

LAMBERT HOISTING ENGINES

SEE OUR ADVERTISEMENT FRONT COLORED PAGE.

HENDRICKS, COMMERCIAL REGISTER OF THE UNITED STATES. (FOR BUYERS AND SELLERS)

BEDFORD STONE From the BUFF RIDGE and HOOSIER Quarries of THE BEDFORD QUARRIES COMPANY is the best in the market.

CHICAGO OFFICE: - - - 204 Dearborn Street.

NEW YORK OFFICE: - - - 1 Madison Avenue.

CLEVELAND OFFICE: - - - 818 Euclid Avenue.

QUARRIES AND MILLS: - - - Galitzie, Indiana.

SAYRE & FISHER CO.,

JAS. R. SAYRE, Jr. & CO., Agents.

261 BROADWAY, Corner Warren Street, NEW YORK.

FINE PRESSED FRONT BRICK (Various Shades), ENAMELED BRICK,
HARD BUILDING BRICK, FIRE BRICK, HOLLOW BRICK.

PROMINENT BUILDINGS IN NEW YORK CITY

| BUILDINGS. | Quantity Front Brick. | ARCHITECTS. |
|---|---------------------------|-------------------------|
| NEW YORK STOCK EXCHANGE..... | 40,000 | |
| HANOVER NATIONAL BANK..... | 120,000 (Enameled) } | GEO. B. POST |
| CHAMBER OF COMMERCE..... | 420,000—125 Enameled..... | JAS. B. BAKER |
| BANK OF COMMERCE..... | 70,000..... | JAS. B. BAKER |
| THE ASTOR HOTEL (55th Street and Fifth Avenue)..... | 450,000..... | JAS. B. BAKER |
| UNION CLUB (51st Street and Fifth Avenue)..... | 300,000..... | TROWBRIDGE & LIVINGSTON |
| MOUNT SINAI HOSPITAL..... | 250,000..... | CASS GILBERT |
| FLAT IRON BUILDING..... | 200,000..... | A. W. BRUNNER |
| ASTOR HOTEL (Broadway, 44th and 45th Streets)..... | 100,000..... | D. H. BURNHAM & CO. |
| MUTUAL LIFE INSURANCE CO..... | 600,000..... | CLINTON & RUSSELL |
| WOODBIDGE BUILDING..... | 500,000..... | CLINTON & RUSSELL |
| EMPIRE BUILDING..... | 450,000..... | CLINTON & RUSSELL |
| CENTRAL BUILDING..... | 350,000..... | KIMBALL & THOMPSON |
| POSTAL TELEGRAPH BUILDING.. | | PEABODY & STEARNS |
| COMMERCIAL CABLE BUILDING.. | | HARDING & GOOCH |
| VARICK STREET STORES..... | | HARDING & GOOCH |
| PARK ROW BUILDING..... | | CHAS. C. HAIGHT |
| BOTANICAL GARDENS, BRONX PA | | R. H. ROBERTSON |
| MILLS' HOTELS..... | | R. W. GIBSON |
| BOWLING GREEN BUILDING..... | | ERNEST FLAGG |
| THE BREAKERS, Newport, R. I.... | | W. & G. AUDSLEY |
| ROYAL INSURANCE BUILDING (W1 | | RICHARD M. HUNT |
| CITY INVESTING BLDG. (B'way, Co | | HOWELLS & STOKES |
| ACADEMY OF MUSIC (Lafayette Av | | FRANCIS H. KIMBALL |
| | | HERTS & TALLANT |

UNIVERSITY OF ILLINOIS LIBRARY

Class Book Volume

670.3 REMOTE STORAGE
REMOTE STORAGE

F 11-20M ALGELD HALL STACKS

HENRY MAURER & SON

Manufacturers of High Grade Fire Brick
and Terra-Cotta Fireproof Materials

FIRE-BRICK, bearing our brand, "Henry Maurer, No. 1," are
of the highest refractory quality. For requirements where
less heat is to be resisted we recommend our "Royal" brand.

The scarcity and high cost now prevailing for common building
brick is directing attention to our patent wall construction, the
"Phoenix."

For fireproof floor construction our "Herculean" Arch has the
endorsement of every architect who has used it.

LOWEST INSURANCE RATES ON HOLLOW TILE

Send for Catalogues

OFFICES: 420 EAST 23d STREET, NEW YORK CITY.

Factory, MAURER, N. J.

PENNSYLVANIA BUILDING,

PHILADELPHIA

Lidgerwood HOISTING ENGINES

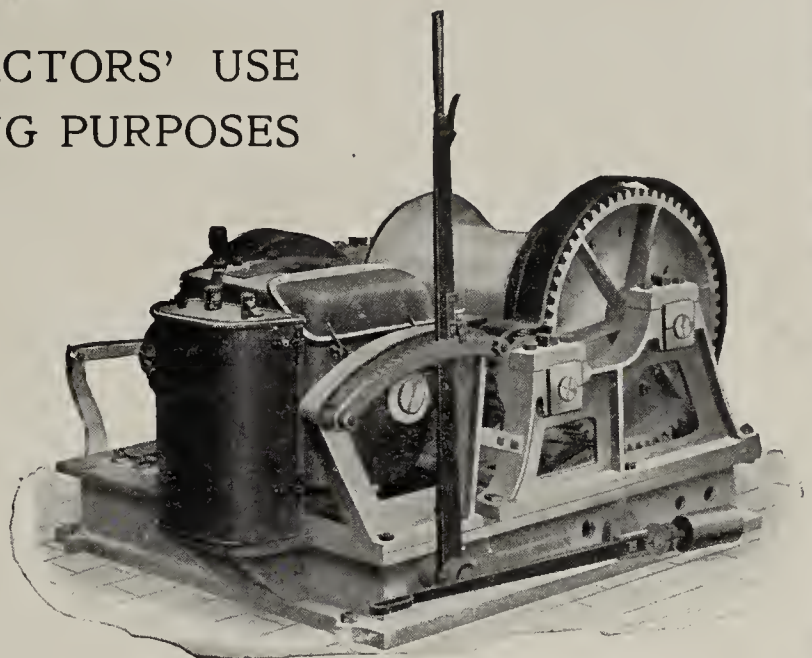
(Steam and Electric)

For BUILDERS' AND CONTRACTORS' USE
RAILROADS AND ALL HOISTING PURPOSES

Are of the highest quality, and offer features
to be found in no others.

They are built on the duplicate part system, which
insures the perfect interchanging of all parts and
the quick delivery of engines or parts when ordered

OVER
28,000
IN USE.



Standard Lidgerwood Electric Hoist

This is one of our most popular types of Electric Hoists, and is designed for use with a direct current of 500 or 250 volts. It is adapted for all general hoisting purposes.

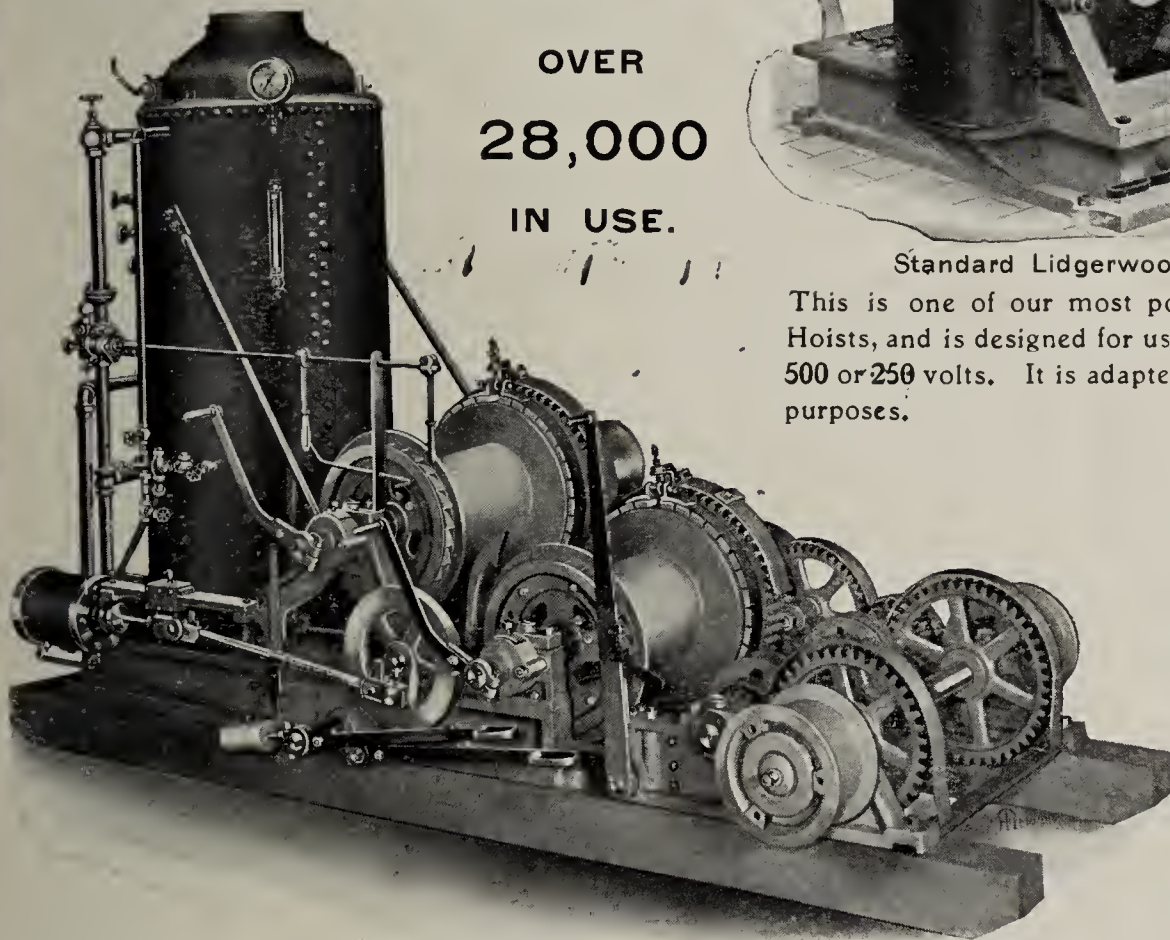
CABLEWAYS

HOISTING AND CONVEYING

DEVICES

FOR

Mining,
Quarrying,
Steam Logging,
Dam Construction, Etc.



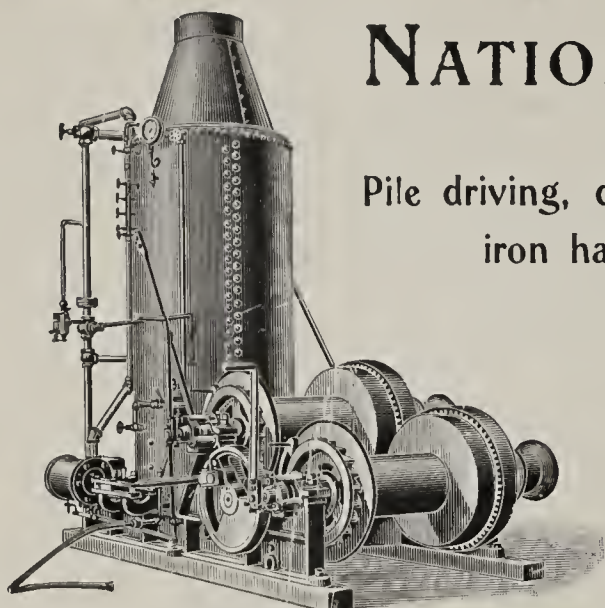
Lidgerwood Standard Hoisting Engine with Boom Swinging Gear

SEND FOR LATEST CATALOGUES

Lidgerwood Manufacturing Co.

96 LIBERTY STREET, NEW YORK

BRANCH HOUSES: CHICAGO, BOSTON, PITTSBURG, PHILADELPHIA, CLEVELAND,
ATLANTA, SEATTLE.



NATIONAL HOISTING ENGINES

ARE THE STANDARD FOR

Pile driving, dock and bridge building, quarrying, mining, structural iron handling, hod hoisting, and all hoisting purposes

Traveling Derricks, Derrick Castings, Steam and Electric Hoists, all Built on Duplicate Part System

WRITE FOR LATEST CATALOGUE

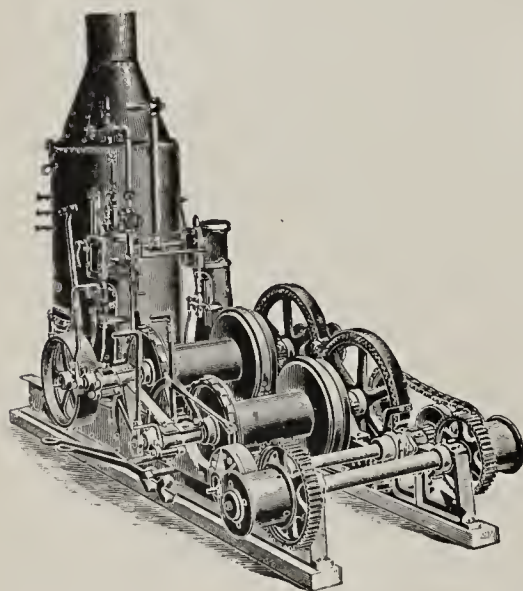
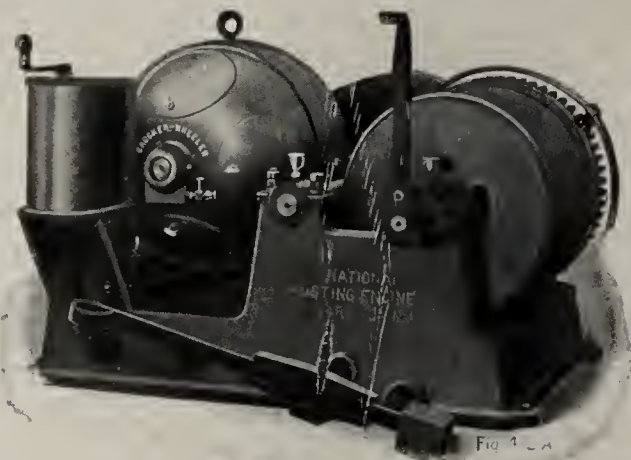
NATIONAL HOISTING ENGINE CO.

OFFICE AND WORKS

Manor Ave. and Bergen Street, HARRISON, N. J.

SELLING AGENTS

PHILADELPHIA, Allen & Ross, 14 South 17th Street.
ROANOKE, VA., A. C. Stansill, 5 Church Avenue.
PITTSBURG, PA., Contractors' Supply Co., 908 Hartje Building.
CHICAGO, ILLS., Geo. B. Carpenter & Co., 202 South Water Street.
NEW YORK, H. J. McCoy Co., 65 Dey Street.



WE MANUFACTURE

PORTABLE HOISTING ENGINES

FOR ALL PURPOSES

AND SELL THEM AT THE LOWEST POSSIBLE PRICE.

All Engines built on Steel Frame and with Steel Drum Barrels

Also Geared Locomotives, Derrick Cars, Derrick Irons, Hand Powers, Blocks and Sheaves.

We also make a specialty of DOUBLE PLATFORM ELEVATORS for handling brick and mortar. These elevators are adapted for any height building.

WRITE FOR CATALOGUE

THE JOHN F. BYERS MACHINE COMPANY

RAVENNA, OHIO.

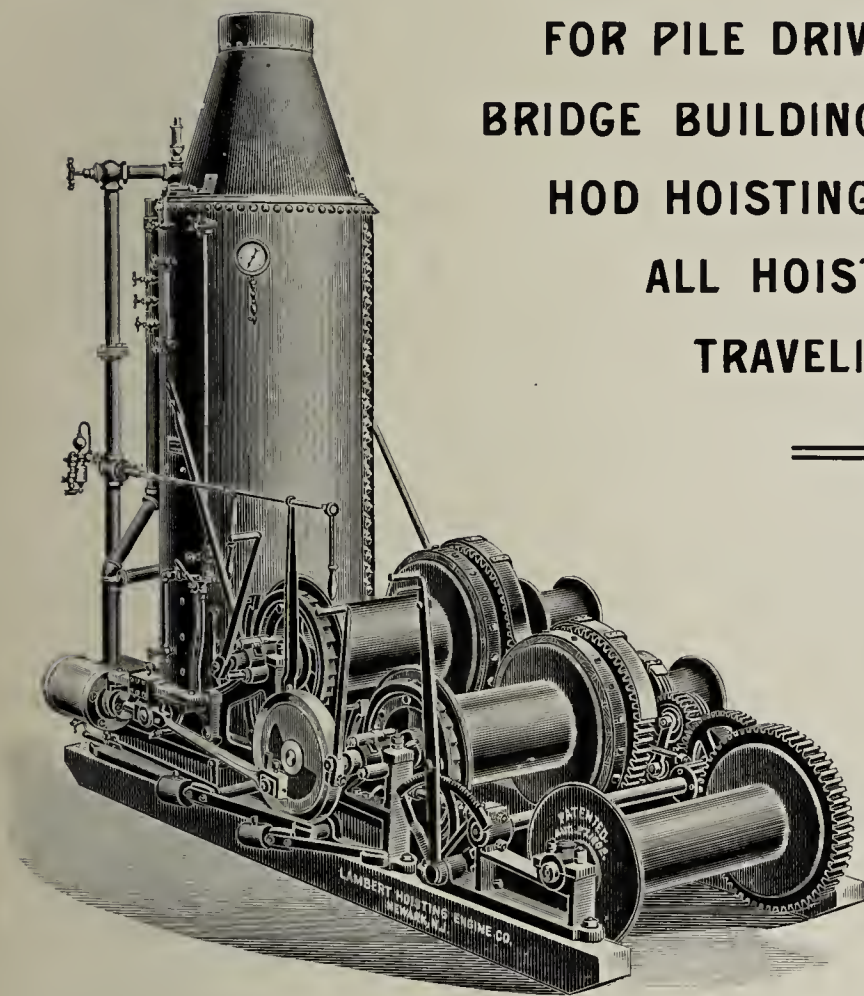
IT MAY BE OF
INTEREST
TO YOU



To know that this book circulates in nearly every town and hamlet throughout the U.S.

LAMBERT HOISTING ENGINES ARE UNEXCELLED

FOR PILE DRIVING, DOCK BUILDING,
BRIDGE BUILDING, QUARRYING, MINING,
HOD HOISTING, CONTRACTORS AND
ALL HOISTING PURPOSES,
TRAVELING DERRICKS.



ELECTRIC HOISTS,
SUSPENSION CABLEWAYS

Pine and Cypress Log Hauling
and Loading Engines.
Special Log Loading Engines
and Pull Boat Machinery.

LAMBERT HOISTING ENGINE COMPANY,

MAIN OFFICE AND WORKS, 115-121 POINIER STREET, NEWARK, N. J.

NEW YORK OFFICE, 85 LIBERTY STREET, (SINGER BUILDING.)

ATLANTA, GA., Prudential Building.

CAMBRIDGE (BOSTON):
117 Main St.

PHILADELPHIA:
1715-1717 Market St.

ALLEGHENY, PA.:
Lacock and Sandusky Sts.

ST. LOUIS:
715-717 North 2d St.

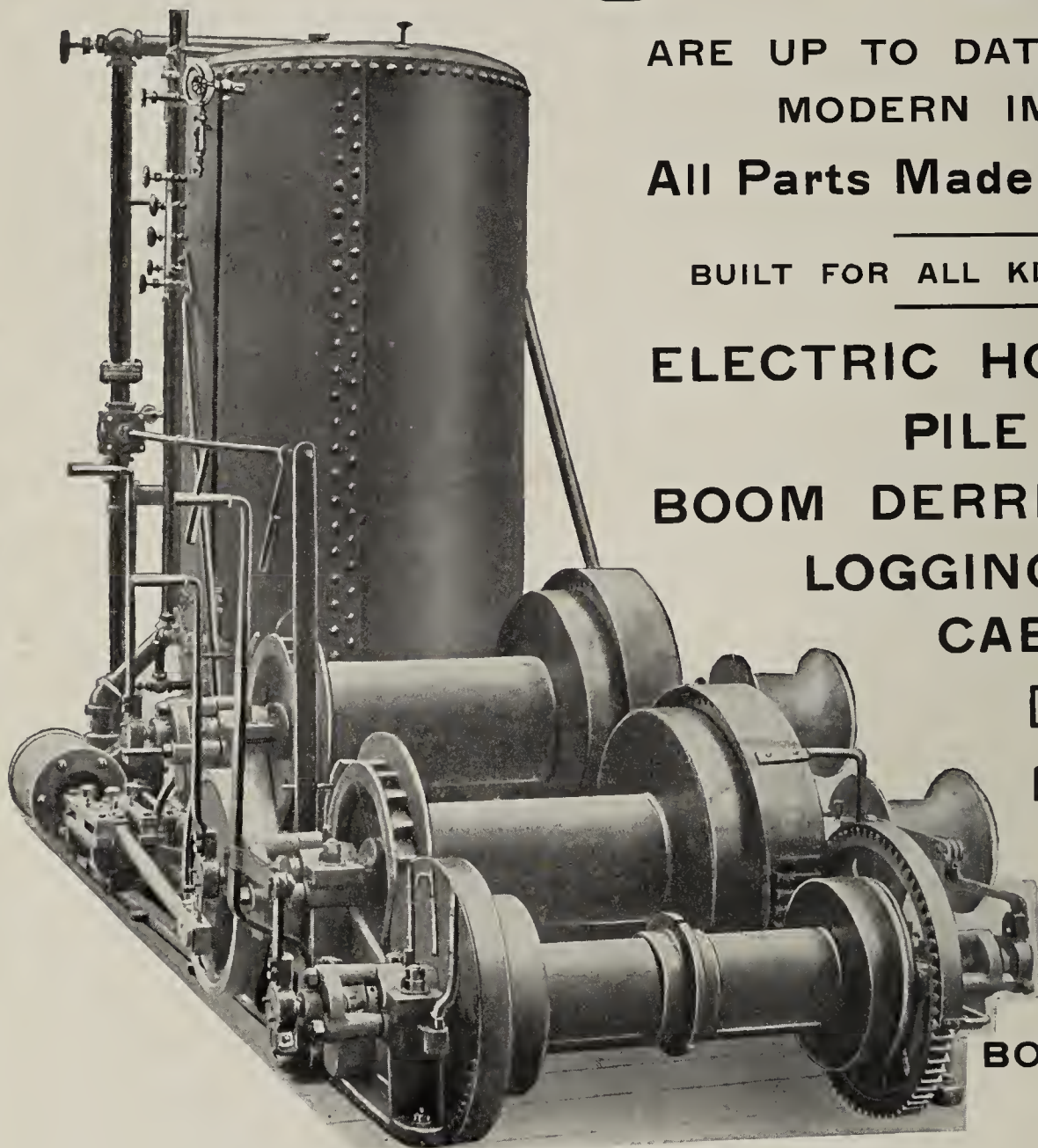
CHICAGO:
520 Old Colony Bldg.

BALTIMORE, MD.:
21 Builders' Exchange.

SAN FRANCISCO:
Stuart and Folsom Sts.

NEW ORLEANS:
722 Gravier St.

MUNDY Hoisting Engines



ARE UP TO DATE WITH ALL
MODERN IMPROVEMENTS

All Parts Made to Duplicate

BUILT FOR ALL KINDS OF WORK

ELECTRIC HOISTS

PILE DERRICKS

BOOM DERRICKS

LOGGING ENGINES

CABLEWAYS

DREDGING ENGINES

DIPPERS AND

EQUIPAGE

SHIP and DOCK

HOISTS

BOTH STEAM and
ELECTRIC

MUNDY STANDARD HOISTING ENGINE
WITH WRIGHT'S PATENT DERRICK SWINGING DRUM

J. S. MUNDY, Builder,

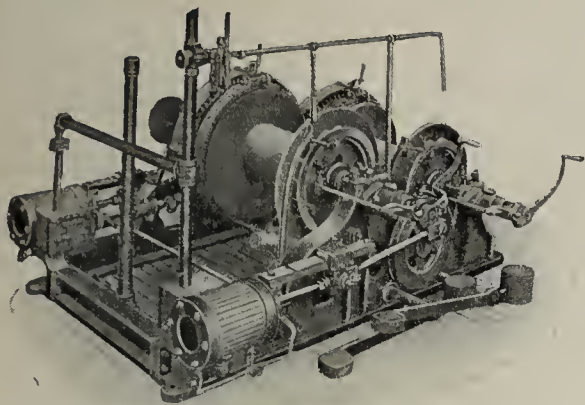
Main Office and Works: 22-34 PROSPECT STREET - - NEWARK, N. J.

BRANCH OFFICES

39 Cortlandt Street, NEW YORK
Market and Randolph Streets, CHICAGO, ILL.
1744 Market Street, PHILADELPHIA, PA.
325 Water Street, PITTSBURG, PA.
224 Water Street, NORFOLK, VA.
210 Washington Avenue, ST. LOUIS, MO.
203 West Pearl Street, CINCINNATI, O.

10 Beale Street, SAN FRANCISCO, CAL.
29 First Street, PORTLAND, ORE.
217 Occidental Avenue, SEATTLE, WASH.
118 Hollis Street, HALIFAX, N. S.
203 Meeting Street, CHARLESTON, S. C.
1420 East Cary Street, RICHMOND, VA.
Willow and Wood Streets, HOUSTON, TEX.

140 Pearl Street, BOSTON, MASS.
Roekefeler Building, CLEVELAND, O.
28 Light Street, BALTIMORE, MD.
160 North Commerce Street, MOBILE, ALA.
F. H. Hopkins & Co., MONTREAL, CAN.
203 German Am. Bank, ST. PAUL, MINN.
1401 St. Louis Avenue, KANSAS CITY, MO.



Adapted for Bridge Building, Pile Driving on
Scows, Lighters, and General
Contractors' Work

FOR
CONTRACTORS
and MINING DUTY

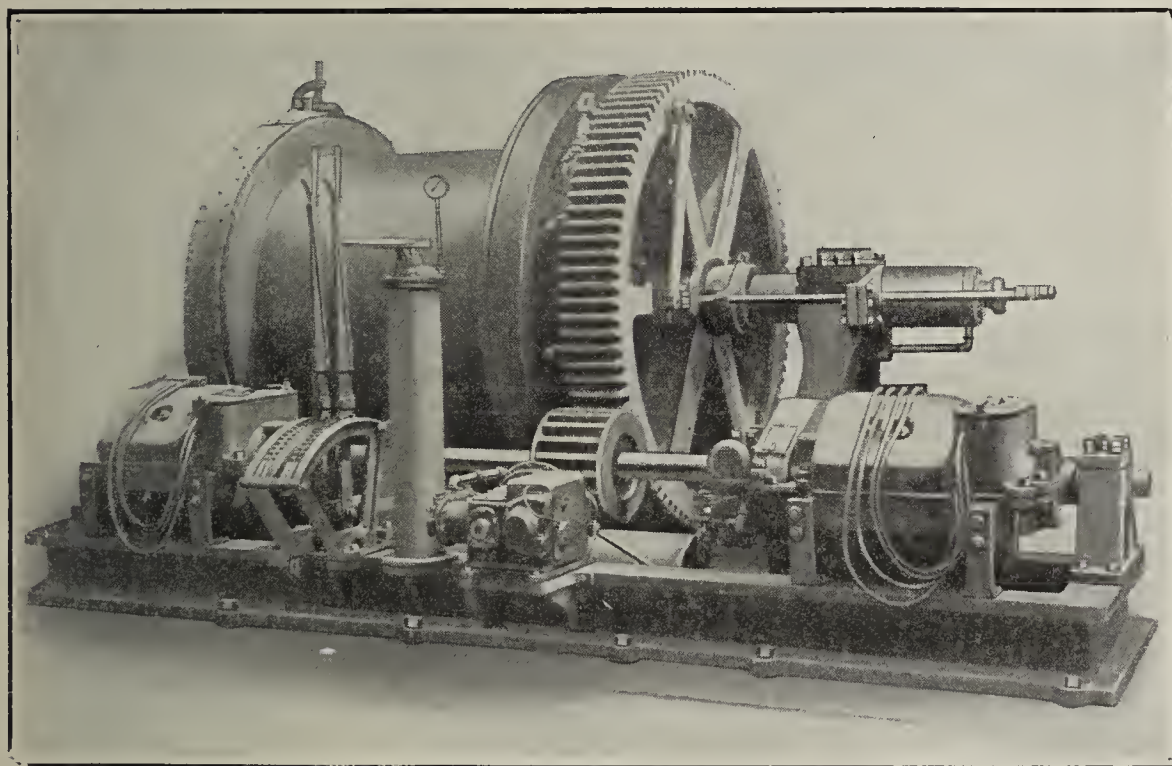
ALWAYS
SPECIFY



Patent Reversing Gear and Drums
for Swinging Boom Derricks

FLORY

HOISTING ENGINES



Electric Mine Hoist fitted with Flory Improved Band Friction
operated by electric air brake equipment.

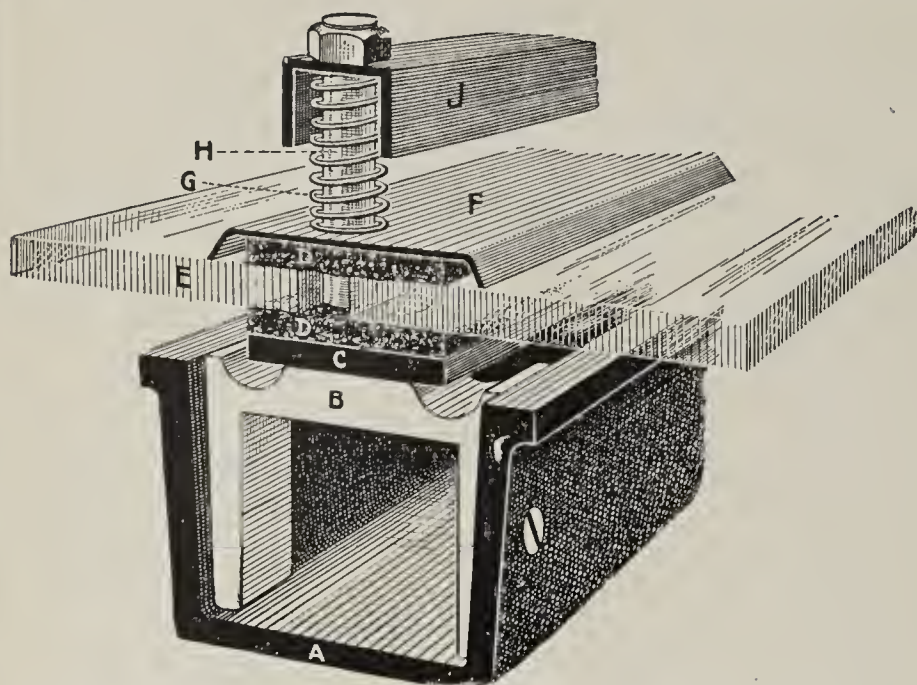
STANDARD for
Bridge Building
Pile Driving
Mine, Quarry and
General Hoisting

CABLEWAYS

DREDGING
LOGGING
and SLATE
MACHINERY

WRITE FOR CATALOG H

S. FLORY MFG. CO., BANGOR, PA.



THE "Anti-Pluvius" SKYLIGHT.

- A—Steel Channel Bar.
- B—Malleable Iron Bridge.
- C—Flat Iron.
- D—Felt.
- E—Glass.
- F—Copper Sheet Cap.
- G—Coil Brass Spring.
- H—Brass Stud.
- J—Bridge (for walking on skylight).

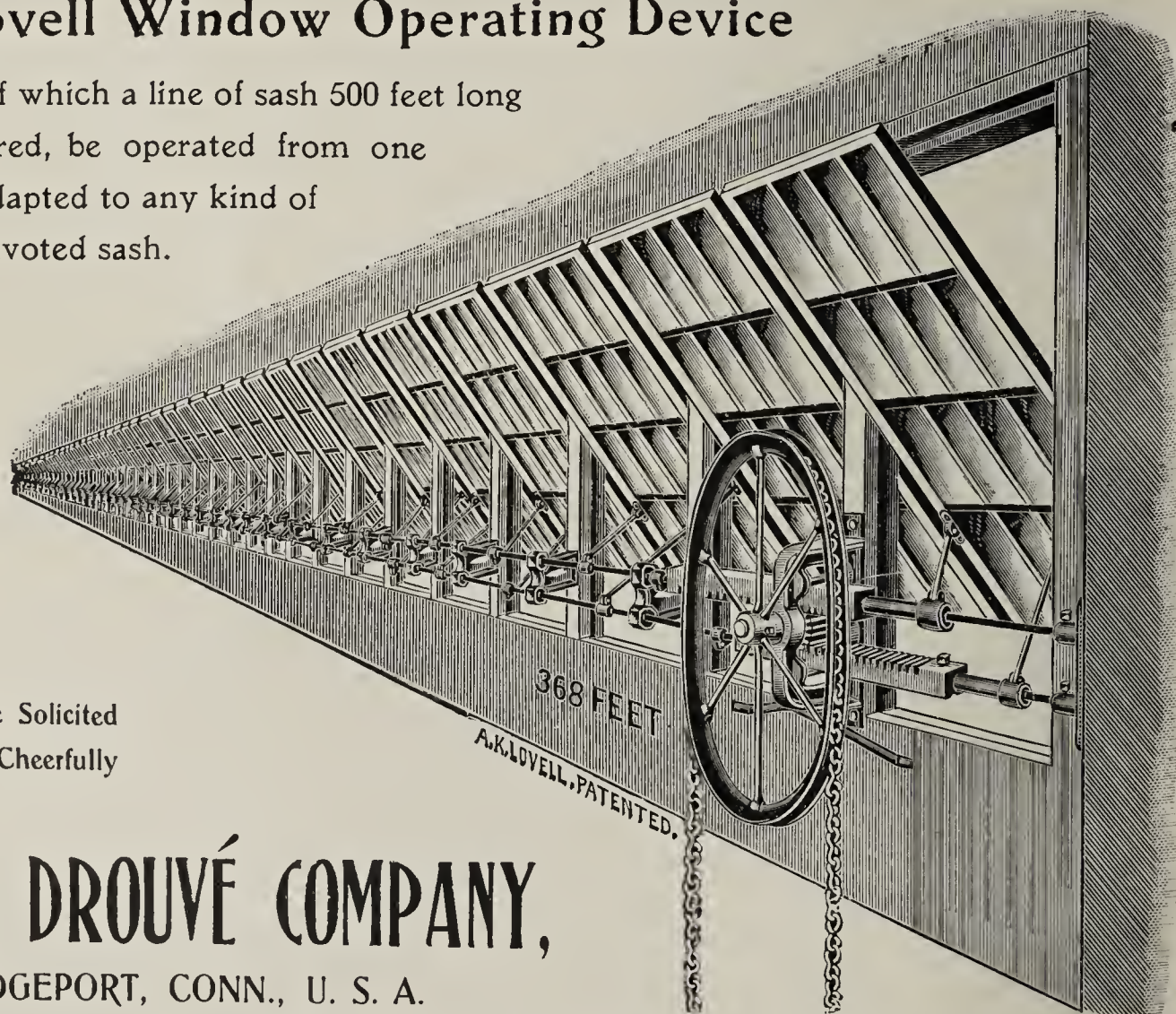
Absolutely and permanently im-
pervious against rain, snow, sleet

or dust, without putty or cement, with bridge arrangement for walking on skylight without contact with or pressure on glass—In use on some of the largest buildings in the world.

Also Manufacturers and Erectors of

The Lovell Window Operating Device

By means of which a line of sash 500 feet long can, if desired, be operated from one station. Adapted to any kind of hinged or pivoted sash.



Correspondence Solicited
and Estimates Cheerfully
Furnished.

THE G. DROUVÉ COMPANY,

BRIDGEPORT, CONN., U. S. A.



DOBBIE FOUNDRY & MACHINE COMPANY,

MANUFACTURERS OF

Steel and Wood Derricks^a_d Derrick Fittings HOISTING MACHINERY.

STEAM, HORSE AND HAND POWER.

DIRECT CONNECTED MOTOR DRIVEN AND BELT HOISTS
SHEAVES AND SHEAVE BLOCKS, CRABS, WINCHES, ETC.
CONCRETE MIXERS.

COMPLETE LINE OF CONTRACTORS' AND QUARRYMENS' MACHINERY AND SUPPLIES
CARRIED IN NEW YORK AND CHICAGO.

Main Office and Works, NIAGARA FALLS, N. Y.

Eastern Branch, 82 Warren Street, NEW YORK CITY.

Western Branch, 202-208 South Water Street, CHICAGO, ILL.

AMERICAN HOISTING ENGINES



FOR CONTRACTORS
QUARRYMEN AND ALL
HOISTING PURPOSES

DERRICKS

OF EVERY TYPE AND
FOR ALL SITUATIONS

HIGH GRADE in
CONSTRUCTION
and DESIGN

DESCRIPTIVE
CATALOGUE
YOURS FOR
THE ASKING

AMERICAN HOIST & DERRICK CO.
ST. PAUL, MINN.

CHICAGO

NEW YORK

PITTSBURG

BOSTON

NEW ORLEANS

ENGINEERING NEWS

THE LEADER IN

Quality of Technical Matter Published

Advance News of Construction

Average Weekly Paid Circulation

Quality and Quantity of Advertising

Weekly Proposal Advertising

Weekly For Sale and Want Advertising

Published Every Thursday

\$5.00 a Year

\$2.50 for Six Months. Trial Subscription, 10 Weeks for \$1.00

WRITE FOR FREE SAMPLE COPY

THE ENGINEERING NEWS BOOK DEPARTMENT publishes a number of Standard Technical Books and Specifications, and is also prepared to supply promptly, on receipt of price, any books of a technical or general nature other than those of its own publication. ♣ ♣

Send for Catalogue

The Engineering News Publishing Company

226 BROADWAY

NEW YORK

CASSIER'S MAGAZINE

A MONTHLY REVIEW OF THE
APPLIED SCIENCE OF ENGINEERING
Mechanical :: Electrical :: Civil :: Mining



THE Current Record of the Engineering
Work of the World, from the pens
of the Ablest Specialists, Presented in the
Highest Style of the Art of the Engraver
and Printer.
Price, 25 cents a Copy. Three Dollars a Year.

THE CASSIER MAGAZINE CO.

No. 3 West Twenty-ninth Street, . . New York

The Engineering Magazine is made for the man who wants to grow in his business—whether he holds a subordinate position, is a practicing engineer or a factory manager. **More Than 300 Pages Every Issue.**

Timely Articles (96 pages).

Specially written papers on all important engineering questions of the day, including Electrical, Civil, Mechanical and Mining Engineering, and Industrial Management in all its branches. Every leading article is written by a specialist,—by a man who has attained position and can write with authority on the subjects discussed.

Illustrations.

The illustrations aptly supplement the text, are freely used, and in securing them neither effort nor expense is spared. The illustrations are selected for their practical utility rather than for decorative effects.

Editorial Comment

Improved Machinery

New Books

New Trade Literature

Industrial News

Engineering Reviews (24 pages).

A concise survey of current industrial engineering progress, as reflected in the entire industrial press of the world.

The Engineering Index (32 pages).

A topical index to the whole range of current engineering and industrial literature, making it possible for one to keep abreast of progress in his specialty by this one publication alone. This index tells of every article on a given specialty published anywhere, and provides a ready means of obtaining it. Ask for descriptive circular.

“THE COMPLETE COST-KEEPER” presents different original cost-keeping systems, varying in complexity from one so simple that the entire history of each production order is recorded on a single printed form, up to some of the most elaborate methods known, by which any desired degree of minuteness in subdivision of accounting can be obtained.

Every step in the use of the several systems is minutely detailed, and when the factory production is separated from the purely commercial operation of disposing of the factory product, the commercial books are also described, and in all cases the number of men at work, and the number and class of bookkeepers, clerks, messengers, time-takers, and so on, employed in cost-accounting is given, so that any manager can tell about what he may expect the use of a similar system to cost in his own establishment.

450 Pages. 6 x 9. Illustrated.
Cloth Binding. \$5.00, Prepaid.

“THE FACTORY MANAGER” tells how to eliminate dead expense; unnecessary fixed charges; friction and delays in handling work; useless help, methods, and records; unnecessary time and material; interruptions, “waits,” and guess-work; too many handlings of work, etc., and how to arrive at the exact cost of all work done.

There is not a theory in the whole book. Every chapter is a working plan available for immediate use. Every method, every card, every blank form and record book, is in successful use; every one is the result of years of testing, revision, and improvement.

All cards, tickets, order-blanks, page or sheet headings, etc., have the size marked, together with the color and kind of paper on which they are printed. Any one can, therefore, reproduce any form shown and readily apply it in his own business.

432 Pages. 6 x 9. Illustrated.
Cloth Binding. \$5.00, Prepaid.

The Engineering Magazine,

**140-142 NASSAU STREET
NEW YORK CITY**

THE "METHODS AND COST" JOURNAL

Thousands of busy contractors and engineers find in our papers, costing only \$1.00 a year each, just the information that they need and do not take the time or trouble to read the vast amount of matter that appears in the more expensive periodicals.

ENGINEERING=CONTRACTING

EVERY WEDNESDAY **\$1** FOR THE 52 ISSUES

Published in Chicago every Wednesday, 52 issues, only \$1.00 a year, is edited by Halbert P. Gillette, M. Am. Soc. C. E., author of "Handbook of Cost Data," "Rock Excavation," "Earthwork and Its Cost" and "Economics of Road Construction," and for several years on the editorial staff of "Engineering News." Last year Mr. Gillette had the honor of being appointed Chief Engineer of the Washington State Railroad Commission to ascertain the amount of money expended by the railroads in the State of Washington for original construction, betterments and equipment, as well as to estimate the cost of reproducing the existing 3,000 miles of railroad in that State. The associate editors include such well-known writers as Charles S. Hill, for eighteen years on the editorial staff of "Engineering News," author of "The Chicago Main Drainage Channel," and joint author with A. W. Buel of "Reinforced Concrete," and C. T. Murray, for many years editor of the construction news department of "Engineering News." Myron C. Clark, our publisher, had charge of the book and subscription departments of "Engineering News" for eight years, while A. B. Gilbert, our advertising manager, was with the same paper twelve years and later with the "Railway Age" for three years.

ENGINEERING-CONTRACTING is the great *Methods and Cost Paper*, and is the only engineering paper whose editor has had actual contracting experience and who is at the same time a practical engineer. It is devoted to the interest of the engineer as a **Builder** and its articles deal with those practical features which enable engineers and contractors to make close and accurate estimates and foremen to handle work in the most economical manner possible. They tell what similar work has cost in various cities. This detailed information is not contract prices, but actual costs taken from the private records of engineers and contractors, and so itemized and analyzed as to be of inestimable value to any person who has to do with making bids and estimates or in checking estimates on such work as is described in each article.

Naturally a paper publishing such articles, which are out of the ordinary and of inestimable value, becomes a reference library, and not a scrap basket symposium, and is therefore the very best kind of an advertising medium. We have also a system of co-operation with our advertisers whereby we help them to secure business in addition to the direct returns from their advertisements in our columns. This plan of co-operation is unequaled by that of any other paper in the world, and advertisers in **ENGINEERING-CONTRACTING** say this is the *very best paper* they have ever used for actual results.

A prominent member of the American Society of Civil Engineers writes as follows :

"Enclosed please find \$2 for subscriptions to **ENGINEERING-CONTRACTING** and to **RAILWAY MAINTENANCE AND STRUCTURES** for the coming year. *I know of no engineering journals in the country that give greater value for the money.* Every young engineer should preserve files of **ENGINEERING-CONTRACTING** and arrange an index for ready reference to items of cost contained therein. The most successful engineers are those who know and keep the cost of work."

Sample Copy Free.

ENGINEERING-CONTRACTING, 355 Dearborn St., Chicago, Ill.

MEAD=MORRISON MFG. CO.

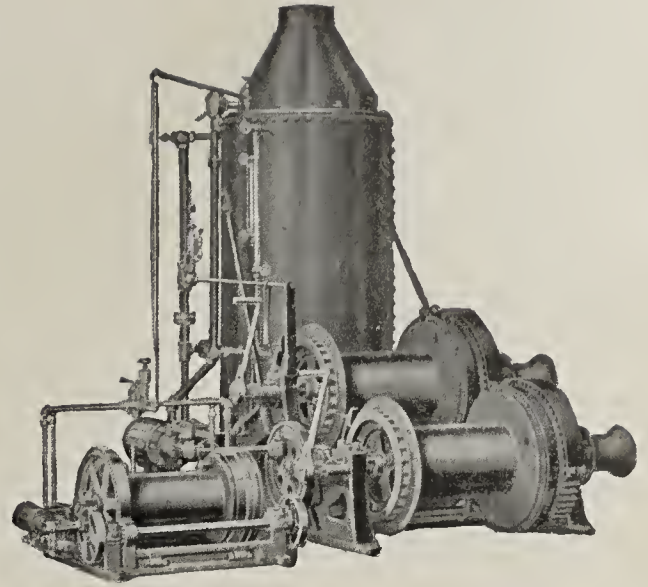
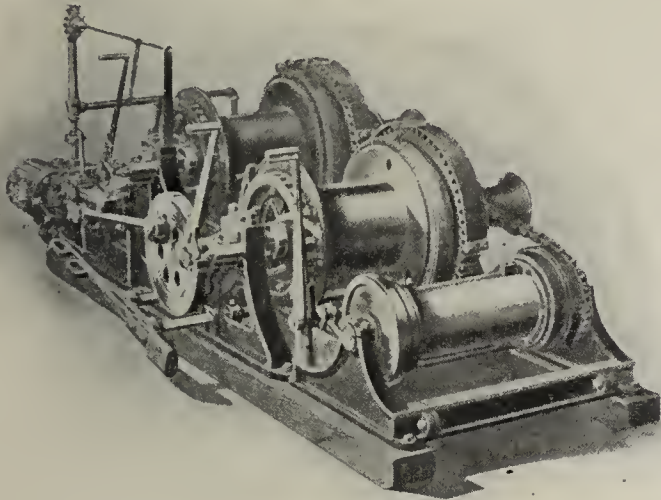
Successors to RAWSON & MORRISON MFG. CO.

WORKS AND GENERAL OFFICES:

Corner Main and First Streets, CAMBRIDGE (BOSTON), MASS.

Hoisting Engines, Coal Handling Machinery,

Electric Hoists, Belt Hoists, Derrick Swingers,
Suspension Cableways, Clam Shell Grabs, Cable
Railways, Machinery for the Handling of
Material of all Kinds.



| | | | | | |
|---------------|---|---|---|---|--------------------------------|
| NEW YORK | - | - | - | - | 11 Broadway |
| BALTIMORE | - | - | - | - | 903 Maryland Trust Building |
| PHILADELPHIA | - | - | - | - | Penn Building |
| CHICAGO | - | - | - | - | 74th Street and Kimbark Avenue |
| NEW ORLEANS | - | - | - | - | 200 South Peters Street |
| SAN FRANCISCO | - | - | - | - | - |
| MONTREAL | - | - | - | - | 286 St. James Street |

Cable Address, Morrison, Cambridge. Commercial Code

“ “ Jamead, New York. Lieber's Code

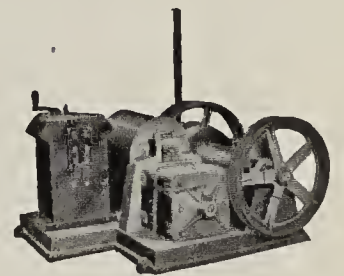
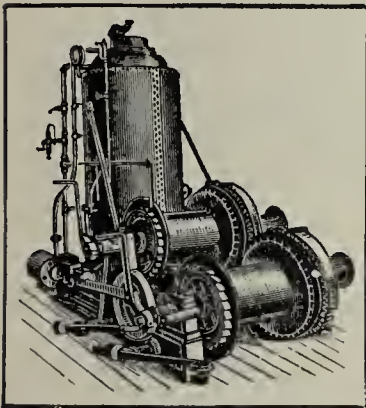
MONIGHAN'S HOISTING ENGINES

STANDARD AND SPECIAL

FOR

BUILDERS,
QUARRYING,
CONTRACTORS,
LOGGING,

PILE DRIVING,
COAL HANDLING,
EXCAVATING,
DREDGING, Etc.



This Electric Hoist Especially
Adapted for Hoisting Materials
in Buildings.

MONIGHAN MACHINE WORKS,
813-823 Carroll Avenue, - - CHICAGO, ILL.

SEND FOR CATALOGUE.



BRICK POTTERY
AND
PORTLAND CEMENT
MACHINERY

WRITE FOR CATALOGUE AND PRICES

THE BONNOT COMPANY

CANTON, OHIO, U. S. A.

DIXON'S DIRECTORY OF GRAPHITE PRODUCTIONS

FOR MILLS AND FACTORIES

LUBRICATING GRAPHITE
LUBRICATING GRAPHITE GREASES
SOLID BELT DRESSING
TRACTION BELT DRESSING
PIPE-JOINT COMPOUND
GRAPHITE AXLE GREASE
PENCILS AND COLORED CRAYONS

FOR FOUNDRIES

CRUCIBLES AND RETORTS
GRAPHITE STIRRERS
PLUMBAGO FOUNDRY FACINGS
LUBRICATING GRAPHITE
LUBRICATING GRAPHITE GREASES

FOR AUTOMOBILES

GRAPHITE GEAR GREASE
MOTOR CHAIN COMPOUND

FOR ENGINEERS AND CONTRACTORS

OFFICE AND DRAWING PENCILS
SILICA-GRAPHITE PAINT
PIPE-JOINT COMPOUND
LUBRICATING GRAPHITE

FOR ELECTRICIANS

GRAPHITE BRUSHES
GRAPHITE RESISTANCE RODS
COMMUTATOR GRAPHITE

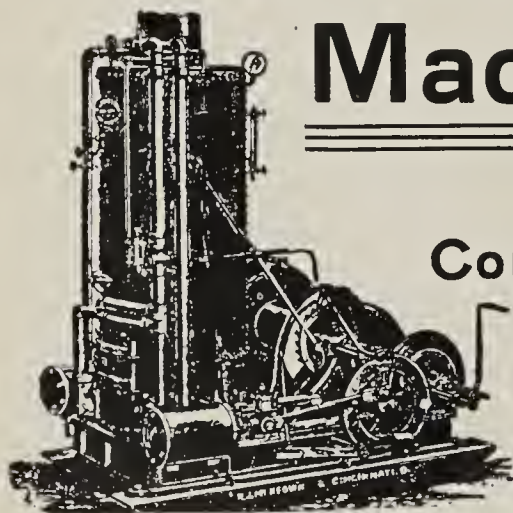
MISCELLANEOUS

PENCILS AND ERASERS
COLORED CRAYONS
BICYCLE GRAPHITE
YACHT PLUMBAGO
ELECTROTYPING PLUMBAGO
STOVE POLISH AND CEMENT
LUMBER PENCILS

JOSEPH DIXON CRUCIBLE CO. - - Jersey City, N. J.

H. J. McKEOWN

Machinist and Millwright



MANUFACTURER OF

Contractors' Plant, Stone Hoisting and
Pile Driving Engines, Crabs,
Derrick Irons a Specialty

248-50 BUTLER STREET, CINCINNATI, OHIO

*Hendricks'
Commercial
Register*



Leads the procession of publica-
tions in the march of trade among
Architects, Builders, Contractors,
Engineers, Purchasing Agents of
Railroads, Mills, Mines, Factories and Supply Houses.

MANNING, MAXWELL & MOORE,

INCORPORATED

MANUFACTURING MERCHANTS

Machine Tools and Railway, Machinists' and Engineers' Supplies

OWNING AND OPERATING :

THE SHAW ELECTRIC CRANE CO.

Manufacturers of Shaw Electric Cranes.

THE ASHCROFT MANUFACTURING CO.

Manufacturers of Ashcroft Steam, Pressure and Vacuum Gauges, The Tabor Indicator, The Edson Recording Gauge and Pipe Tools.

THE CONSOLIDATED SAFETY VALVE CO.

Manufacturers of Consolidated Safety Valves for Stationary, Locomotive and Marine Service, and Water Relief Valves.

THE HAYDEN & DERBY MFG. CO.

Manufacturers of Metropolitan Injectors, H-D Ejectors and General Jet Apparatus.

THE HANCOCK INSPIRATOR CO.

Manufacturers of The Hancock Inspirator, The Hancock Ejector, The Hancock Valve and General Jet Apparatus.

GENERAL OFFICES:

85-87-89 Liberty Street, New York

BRANCH OFFICES :

CHICAGO

22-24-26 South Canal St.

PHILADELPHIA

721 Arch Street

PITTSBURGH

Park Building

BOSTON

128 Oliver St.

CLEVELAND

Williamson Building

ST. LOUIS

Frisco Building

DETROIT

Majestic Building

SYRACUSE

Kirk Building

BIRMINGHAM, ALA.

Woodward Building

MILWAUKEE, WIS.

Merrill Building

JAPAN, TOKIO

THE ENGINEERING RECORD Established 1877
BUILDING RECORD AND THE
SANITARY ENGINEER

PUBLISHED EVERY SATURDAY

DEVOTED TO

CIVIL ENGINEERING

AND ALLIED BRANCHES

THE CONTRACTING NEWS SERVICE

Of this paper is the best periodical service of the kind in existence and
is famous throughout the United States for its Accuracy and Reliability.

The Recognized Medium for Proposal Advertising

ONLY THREE DOLLARS PER ANNUM

SAMPLE COPY FREE

The Engineering Record

114 LIBERTY STREET

NEW YORK

LONDON

CHICAGO

PHILADELPHIA

CLEVELAND

ESTABLISHED 1891.

SIXTEENTH ANNUAL EDITION.

HENDRICKS' Commercial :: Register

OF THE

UNITED STATES
FOR BUYERS AND SELLERS

ESPECIALLY DEVOTED TO THE INTERESTS OF THE

ARCHITECTURAL, MECHANICAL, ENGINEERING, CONTRACTING, ELECTRICAL,
RAILROAD, IRON, STEEL, MINING, MILL, QUARRYING, EXPORTING
AND KINDRED INDUSTRIES.

A Complete and Reliable Annual Index of the aforesaid Industries, containing over 350,000 Names and Addresses, upwards of 15,000 Business Classifications. With Full Lists of the Manufacturers of and Dealers in Everything employed in the Manufacture of Material, Machinery and Apparatus used in these vast Industries, from the Raw Material to the Manufactured Article, and from the Producer to the Consumer.

Indispensible as a Buyers' Reference for the Architect, Engineer, Contractor, Manufacturer, Jobber, Retailer, Purchasing Agent, and for Railroad, Machinshop, Foundry, Mill, Factory, Mine and Plantation. Also Indispensible for Mailing Purposes.

PRICE, - - - - - TEN DOLLARS.

EXPRESS CHARGES PREPAID

PUBLISHED ANNUALLY BY

SAMUEL E. HENDRICKS CO., 74 Lafayette (formerly Elm) St., cor. Franklin, one block East of Broadway, NEW YORK

Contents and General Style of Arrangement COPYRIGHTED 1907, SAMUEL E. HENDRICKS COMPANY

Aiton

WIRE, STRANDING,
CABLING, INSULAT-
ING and ARMORING

Machines

RUBBER MACHINERY

Washers, Crackers, Mills, Calendars,
Hydraulic Presses.

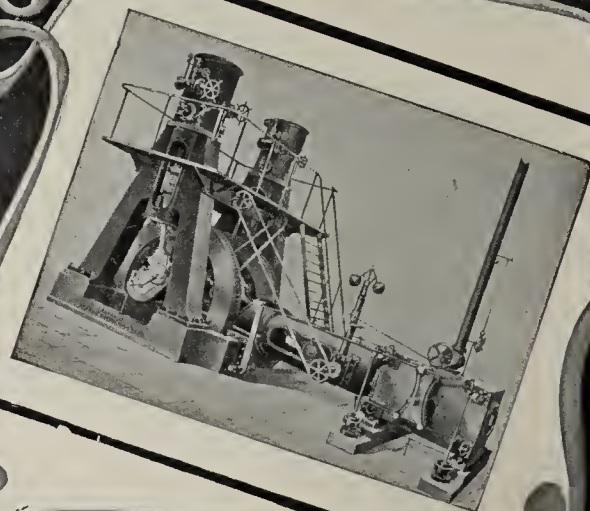
AITON MACHINE COMPANY

Works
HARRISON, N. J.

126 Liberty St.
NEW YORK, N. Y.



*The
Buffalo
Refrigerating
Machine Co.*



refers the prospective purchaser of
refrigerating machinery to its large number of
long running installations, each a monument of
efficiency.

Write for list of users, also illustrated monthly bulletins.

THE BUFFALO REFRIGERATING MACHINE CO.

WORKS: HARRISON, N. J.

MAIN OFFICE: 126 LIBERTY ST., NEW YORK.

INDEX OF CONTENTS

ADVERTISERS' INDEX AND BRANCH OFFICES END OF BOOK

NOTE.—The numerous references which follow many of the headings are inserted for the purpose of guiding those who consult this book to the various branches of business connected with such headings and a little study of them will often result in finding names that at first glance appear to be omitted.

We earnestly hope that all new firms connected with the Manufacturing and Construction Industries will send us their business cards and thus aid us in maintaining the high standard of excellence to which this work has aspired.

Any business changes, additions or corrections for the next edition will be thankfully received and INSERTED FREE OF CHARGE.

| A | Page | Page | Page |
|---|------|--|----------|
| Abattoir scales | 1019 | Adjustable track door hang- ers | 316 |
| Abrading machines | 618 | Adjustable track parlor door hangers | 317 |
| Abrasives (see emery & co- rundum mfrs.). | | Adjustable wrenches | 1211 |
| Absorbent machinery wiping towels | 1148 | Adjuster, brake slack | 88 |
| Absorbers, shock | 1042 | Adjusters, automatic slack .. | 2 |
| Accelerators, magnetic | 1 | Adjusters, casement | 2 |
| Accessories, battery | 53 | Adjusters, cord | 2 |
| Accident insurance | 546 | Adjusters, lamp | 2 |
| Accordion or folding door hangers | 316 | Adjusters, window blind | 1198 |
| Accumulators, chloride | 1 | Adjusters, window shade | 1200 |
| Accumulators, hydraulic | 1 | Adjusters, window stop | 1200 |
| Accumulators, steam | 1 | Advertising matter prepared .. | 3 |
| Acetate of lime | 1 | Advertising novelties | 3 |
| Acetic acid | 1 | Advertising rulers, wood | 1000 |
| Acetone | 1 | Adze manufacturers | 3 |
| Acetylene factory torches | 1147 | Aeolipyle for hot air fur- naces | 3 |
| Acetylene gas burners | 176 | Aerating water plants (fil- tering & aerating) | 434 |
| Acetylene gas headlights | 517 | Aerial cableways (see wire rope tramways). | |
| Acetylene gas machines | 640 | Aerial trucks | 1153 |
| Acetylene gas ranges | 936 | Aerial wire | 1201 |
| Acetylene generators (see gas machines, acetylenes). | | Aftercoolers | 3 |
| Acetylene house lamps | 572 | Agallite | 3 |
| Acetylene meters | 769 | Agitators | 3 |
| Acetylene mine lamps | 574 | Agitators, oil | 3 |
| Acetylene searchlights | 1029 | Agricultural chains | 217 |
| Acetylene stoves | 1094 | Agricultural furnaces | 454 |
| Acid, acetic | 1 | Agricultural implement mfrs | 3 |
| Acid blowers | 68 | Agricultural implement parts | 7 |
| Acid, carbolic | 1 | Agricultural implement seats | 1030 |
| Acid cleaning machines | 618 | Agricultural implement springs | 1058 |
| Acid eggs, cast iron | 1 | Agricultural implement steel | 1071 |
| Acid hose | 538 | Agricultural tool handles | 500 |
| Acid, hydrofluoric | 1 | Agricultural wrenches | 1211 |
| Acid kettles | 565 | Air brake fittings | 441 |
| Acid lifts | 583 | Air brake hose | 538 |
| Acid metal fittings | 441 | Air brake hose clamps | 225 |
| Acid, nitric and muriatic .. | 1 | Air brake reservoirs, etc. | 942 |
| Acid pans | 815 | Air brake springs | 1058 |
| Acid proof brick mfrs. | 90 | Air brake storage system | 7 |
| Acid proof paints | 809 | Air brake tanks | 1104 |
| Acid proof tiling | 1137 | Air brake washers | 1183 |
| Acid pumps | 913 | Air brakes | 88 |
| Acid, stearic | 1 | Air cell pipe & boiler cover- ings | 824 |
| Acid, sulphuric | 2 | Air chamber pumps | 913 |
| Acid syphons | 1103 | Air chambers, seamless cop- per | 7 |
| Acid tanks | 1104 | Air cocks | 233 |
| Acid, tannic | 2 | Air compressor lubricators .. | 594 |
| Acid valves | 1163 | Air compressor tanks | 1104 |
| Acid vessels | 2 | Air compressors | 241 |
| Aciding machines | 618 | Air compressors, portable .. | 243 |
| Acids, wood | 2 | Air compressors, portable on auto trucks | 243 |
| Actinolite roofing | 992 | Air compressors, second hand .. | 243 |
| Actinolite roofing tile | 997 | Air compressors, water jet .. | 243 |
| Adamantine coring well drilling machinery | 672 | Air cranes (see cranes, pneu- matic). | |
| Adams or Y valves | 1163 | Air cushions, elevator | 366 |
| Adding machines | 618 | Air cushions, saw mill car- riage | 7 |
| Adding & billing typewriters .. | 1161 | Air discharge valves, pressed steel | 1164 |
| Addressing & mailing | 2 | Air drills, electric | 324 |
| Addressing & mailing ma- chines | 619 | Air dryers | 330 |
| Adjustable appliance for carpenters' brackets | 2 | Air drying enamels | 376 |
| Adjustable auger handles | 500 | Air engines (see engines, compressed air). | |
| Adjustable blocking | 66 | Air furnace castings | 194 |
| Adjustable clamps | 225 | Air gadders | 400 |
| Adjustable expanding dies .. | 310 | Air heaters, waste heat | 8 |
| Adjustable hollow mills | 777 | | |
| Adjustable pipe bushings, "Bard" | 177 | Air hoists (see hoists, pneu- matic). | |
| Adjustable pocket wrenches .. | 1211 | Air hose couplings (see pneu- matic hose couplings). | |
| Adjustable reamers | 937 | Air hose, pneumatic hammer .. | 538 |
| Adjustable scribes | 1029 | Air intercoolers | 547 |
| Adjustable stamping ma- chines | 666 | Air lift pumps | 913 |
| Adjustable stools | 1092 | Air lifts (see lifts, pneu- matic). | |
| | | Air meters | 769 |
| | | Air moistening apparatus | 1126 |
| | | Air motor hoists (see pneu- matic hoists). | |
| | | Air motors | 786 |
| | | Air pressure waterworks | 1188 |
| | | Air pumps | 913 |
| | | Air pumps, tire | 913 |
| | | Air receivers | 8 |
| | | Air reheaters | 942 |
| | | Air rifles | 943 |
| | | Air tanks | 1104 |
| | | Air tight bronze, wood and kalameined windows and sash | 1200 |
| | | Air tight kalameined win- dows | 564 |
| | | Air tight wood heaters | 518 |
| | | Air tire pumps | 913 |
| | | Air turbines | 1158 |
| | | Air valves | 1163 |
| | | Air valves for coal mines | 1164 |
| | | Air valves, steam | 1171 |
| | | Air whistles | 1196 |
| | | "Airoilene" grease for pneu- matic tools | 491 |
| | | Alabaster marble | 750 |
| | | Alarm clocks, electric | 230 |
| | | Alarm gauges | 467 |
| | | Alarm tills | 1137 |
| | | Alarms, burglar | 8 |
| | | Alarms, fire, manual & au- tomatic systems | 8 |
| | | Alarms, fire, thermostatic, etc. | 8 |
| | | Alarms, highway crossing .. | 8 |
| | | Alarms, low water, for boil- ers | 8 |
| | | Alarms, puncture | 8 |
| | | Alco-vapor marine engines .. | 419 |
| | | Alcohol, denatured | 8 |
| | | Alcohol engines | 412 |
| | | Alcohol, grain | 8 |
| | | Alcohol torches | 1147 |
| | | Alcohol vapor stoves | 1094 |
| | | Alcohol, wood | 8 |
| | | Ale & beer cocks | 234 |
| | | Ale & beer filters | 434 |
| | | Alkali drum steel | 1071 |
| | | Alkali mfrs | 8 |
| | | Alligator riveters, pneumatic .. | 895 |
| | | Alligator shears | 1036 |
| | | Alligator wrenches | 1211 |
| | | Alloys aluminum | 8 |
| | | Alloys, copper & nickel | 8 |
| | | Alloys, ferro | 432 |
| | | Alloys, for steel mfrs | 8 |
| | | Alloys, manganese | 9 |
| | | Alloys, nickelumen | 9 |
| | | Alloys, phosphor bronze | 9 |
| | | Alloys, silicon | 9 |
| | | Alloys, white metal | 9 |
| | | "Alpha" belting mfrs | 61 |
| | | Alphabets & figures, steel .. | 9 |
| | | Altar railings | 929 |
| | | Altar rails & pulpits | 913 |
| | | Altar rails & pulpits, brass .. | 89 |
| | | Altars, marble | 750 |
| | | Alternators | 9 |
| | | Altitude gauges | 467 |
| | | Altitude valves | 1134 |
| | | Aluminate | 9 |
| | | Aluminized zinc | 1215 |
| | | Alum'noid | 9 |
| | | Aluminum alloys | 8 |
| | | Aluminum bronze wire | 1201 |
| | | Aluminum castings | 194 |
| | | Aluminum chains | 217 |
| | | Aluminum coated steel sheets | 1074 |
| | | Aluminum enameled | 376 |
| | | Aluminum forgings | 446 |
| | | Aluminum hollow ware | 9 |
| | | Aluminum ingots | 544 |
| | | Aluminum leaf | 9 |
| | | Aluminum paints | 809 |
| | | Aluminum polishing ma- terials | 901 |
| | | Aluminum powder mfrs | 902 |
| | | Aluminum railway feeders .. | 430 |
| | | Aluminum rivets | 945 |
| | | Aluminum rods | 947 |
| | | Aluminum shades | 1034 |
| | | Aluminum sheets | 1039 |
| | | Aluminum spoons | 1058 |
| | | Aluminum stampings | 9 & 1064 |
| | | Aluminum steam jacketed kettles | 565 |
| | | Aluminum tubing | 1156 |
| | | Aluminum wire | 1201 |
| | | Aluminum & bronze clad steel | 1071 |
| | | Alums | 9 |
| | | Alundum for polishing | 9 |
| | | Alundum grains & bricks | 9 |
| | | Alundum grinding wheels .. | 496 |
| | | Alundum stones | 1091 |
| | | Alundum & corundum wheels | 9 |
| | | Always ready wrenches | 1211 |
| | | Amalgam or clean-up bar- rels | 48 |
| | | Amalgamating pans | 815 |
| | | Amalgamating pans & bar- rels | 9 |
| | | Amalgamating sheets, silver plated | 9 |
| | | Amateur vises | 1178 |
| | | Ambulances | 9 |
| | | "American" pulleys, split & whole | 910 |
| | | "American" pulleys, wrought steel | 910 |
| | | "American" wrought sash pulleys | 1004 |
| | | Ammeters & voltmeters | 9 |
| | | Ammonia | 9 |
| | | Ammonia compressors | 243 |
| | | Ammonia concentrators | 243 |
| | | Ammonia condensers | 247 |
| | | Ammonia cylinders | 304 |
| | | Ammonia fitting gaskets | 465 |
| | | Ammonia fittings | 441 |
| | | Ammonia gauges (see gauges, steam). | |
| | | Ammonia helmets | 528 |
| | | Ammonia liquid receivers .. | 938 |
| | | Ammonia liquor tar tanks .. | 1109 |
| | | Ammonia pumps | 914 |
| | | Ammonia recording gauges .. | 468 |
| | | Ammonia, sulphate of | 1099 |
| | | Ammonia valves | 1164 |
| | | Aniline oils | 797 |
| | | Analytical balances | 45 |
| | | Anchor bolts | 79 |
| | | Anchor brand roofing | 992 |
| | | Anchor joists & timber caps .. | 564 |
| | | Anchor rods | 947 |
| | | Anchor straps | 1096 |
| | | Anchor tackle blocks | 66 |
| | | Anchor trip hooks | 536 |
| | | Anchors | 10 |
| | | Anchors, guy | 10 |
| | | Anchors, plate | 10 |

| | Page | | Page | | Page | | Page |
|--|----------|--|------|--|------|---|------|
| Anchors, rail..... | 10 | Apron leather, worsted..... | 1117 | Architectural & structural consulting engineers..... | 379 | Asbestos papier mache mfrs..... | 36 |
| Anchors, rock..... | 10 | Aprons, blacksmiths' leather..... | 11 | Argos marble..... | 750 | Asbestos pipe & boiler coverings..... | 824 |
| Anchors, wall, strap & pin.. | 10 | Aprons, condenser..... | 11 | Armature banding machines.. | 619 | Asbestos plaster mfrs..... | 827 |
| Andirons..... | 10 | Aprons, endless..... | 1117 | Armature coil tapping machines..... | 619 | Asbestos protected metal..... | 36 |
| "Andrews" sockets..... | 1054 | Aprons, flange..... | 11 | Armature coil winding machines..... | 619 | Asbestos protected metal roofing..... | 992 |
| Anemometers..... | 10 | Aprons, leather..... | 11 | Armature coils..... | 238 | Asbestos pulp miners & mfrs..... | 36 |
| Aneroid barometers..... | 47 | Aprons, loom..... | 1117 | Armature discs..... | 313 | Asbestos roofing..... | 992 |
| Angelus strikers (sec clocks, angelus strikers, etc.). | | Aprons, mechanics'..... | 11 | Armature lifts (see lifts, motor, car pit)..... | | Asbestos roofing slate..... | 996 |
| Angle bars..... | 49 | Aprons, paper mill..... | 11 | Armature presses..... | 903 | Asbestos rope, cord & twine..... | 37 |
| Angle benders, hand power..... | 62 | Aprons, rain..... | 11 | Armature rewinding & commutator refilling..... | 35 | Asbestos shingles..... | 1040 |
| Angle chain drives..... | 328 | Aprons, rubber..... | 11 | Armature & magnet cores..... | 279 | Asbestos stove linings..... | 1093 |
| Angle couplings..... | 290 | Aprons, worsted combing..... | 1117 | Armatures..... | 35 | Asbestos textiles..... | 37 |
| Angle gears..... | 470 | Aquariums, glass..... | 11 | Armor plate..... | 830 | Asbestos theatre curtains..... | 1133 |
| Angle iron shears..... | 1036 | Arbor presses..... | 903 | Armor plate annealers..... | 10 | Asbestos tubing..... | 1157 |
| Angle meters..... | 10 | Arbors, drill chuck..... | 11 | Armor plate scales..... | 1019 | Asbestos yarns..... | 37 |
| Angle straightening machines..... | 619 | Arbors, fly cutter..... | 11 | Armor scaling machines, pneumatic..... | 895 | Ash cans..... | 180 |
| Angle valves (globe & angle)..... | 1167 | Arbors, milling machine..... | 11 | Armor, submarine (see diving apparatus)..... | | Ash chutes, steel plate..... | 37 |
| Anglegraphs..... | 10 | Arbors or summer houses..... | 1099 | Arbors, saw..... | 1015 | Ash ejectors, hydraulic..... | 336 |
| Anglemeters..... | 10 | Arbors, shell end mill..... | 11 | Arbors, shell reamer..... | 11 | Ash handling conveyors..... | 274 |
| Angles, channels, etc., brass & copper..... | 90 | Arc deflectors for controllers..... | 11 | Arc deflectors & linings..... | 11 | Ash handling plants..... | 37 |
| Angles, channels, tees, etc., iron & steel..... | 558 | Arc head lights..... | 517 | Arc lamp brackets..... | 87 | Ash hoists..... | 531 |
| Angles, steel bedstead..... | 1071 | Arc lamp carbons..... | 183 | Arc lamp clutches..... | 232 | Ash lifts..... | 583 |
| Angular belting mfrs..... | 61 | Arc lamp cords (trolley, arc lamp, etc)..... | 279 | Arc lamp globes..... | 482 | Ash pit doors..... | 318 |
| Angular cutters..... | 300 | Arc lamp hangers..... | 503 | Arc lamp hoods & protectors..... | 536 | Ash separators (ash & lime)..... | 1031 |
| Aniline colors & dyes..... | 10 | Arc lamp mast arms..... | 766 | Arc lamp outriggers..... | 799 | Ash, soda..... | 1055 |
| Aniline kettles..... | 565 | Arc lamp poles..... | 900 | Arc lamp posts..... | 901 | Ash & garbage cans..... | 180 |
| Annealed wire (see wire, market)..... | | Arc lamp pulleys (see block pulleys)..... | 217 | Arc lamp suspension chains..... | 217 | Asparagus bunchers..... | 176 |
| Annealers, armor plate, etc..... | 10 | Arc lamp windlasses..... | 1197 | Arc lamps (see lamps)..... | | Asparagus plows..... | 834 |
| Annealers, wire..... | 10 | Arc light carbons..... | 183 | Arc rectifiers, mercury..... | 938 | Asphalt cements..... | 213 |
| Annealing box stands..... | 84 | Arc welders, electric..... | 11 | Arch bars..... | 49 | Asphalt crushers & pulverizers..... | 37 |
| Annealing boxes..... | 84 | Arch centers, steel..... | 216 | Arch plates, boiler..... | 70 | Asphalt damp course (see damp course)..... | |
| Annealing furnaces..... | 454 | Arches, boiler..... | 70 | Arches, concrete (floors & arches)..... | 244 | Asphalt dealers..... | 37 |
| Annealing furnaces, malleable..... | 456 | Architects..... | 11 | Architects, brewery..... | 34 | Asphalt floors (see contractors, asphalt paving)..... | |
| Annealing furnaces, wire baking & annealing..... | 458 | Architects, decorative..... | 34 | Architects, horticultural..... | 34 | Asphalt furnaces..... | 454 |
| Annealing machines..... | 619 | Architects, landscape..... | 34 | Architects, mill (see engineers, mill)..... | 34 | Asphalt gravel roofing..... | 992 |
| Annealing pans..... | 815 | Architects, mill (see engineers, mill)..... | 34 | Architects, naval..... | 34 | Asphalt heaters..... | 518 |
| Annealing pots..... | 902 | Architects of Canada..... | 32 | Architects, paper & pulp mill..... | 34 | Asphalt, insulating..... | 545 |
| Annealing tanks, car wheel..... | 1105 | Architects, theatre..... | 34 | Architects, time, record & account books..... | 34 | Asphalt, liquid & solid..... | 37 |
| Announcers, stage..... | 1063 | Architects' & builders' contract blanks..... | 249 | Architects' & builders' specifications..... | 1057 | Asphalt machinery..... | 619 |
| Annunciator or office wire..... | 1201 | Architects' & engineers' instruments & supplies..... | 34 | Architects' & engineers' instruments & supplies..... | 34 | Asphalt mastic..... | 37 |
| Annunciators..... | 10 | Architectural brass work (see grilles)..... | 109 | Architectural bronze..... | 109 | Asphalt matlocks..... | 766 |
| Annunciators, automobile..... | 10 | Architectural bronze, Henry Bonnard..... | 110 | Architectural decorators..... | 308 | Asphalt measuring buckets..... | 112 |
| Annunciators, elevator..... | 366 | Architectural enameled terra cotta..... | 1116 | Architectural engineers, consulting..... | 379 | Asphalt miners & refiners..... | 37 |
| Anodes, bronze & copper..... | 10 | Architectural engineers, consulting..... | 379 | Architectural faience..... | 35 | Asphalt mixers..... | 37 |
| Anodes, for electro plating..... | 10 | Architectural interiors, fireproof..... | 439 | Architectural iron..... | 548 | Asphalt or tar rakes..... | 935 |
| Anodes, gold & silver..... | 10 | Architectural iron..... | 548 | Architectural modelers & sculptors..... | 782 | Asphalt paints..... | 809 |
| Anodes, nickel..... | 10 | Architectural modelers & sculptors..... | 782 | Architectural photographers..... | 819 | Asphalt paving blocks..... | 817 |
| Anti-freezing water closets..... | 1186 | Architectural photographers..... | 819 | Architectural terra cotta..... | 1116 | Asphalt paving contractors..... | 249 |
| Anti-friction bearings..... | 53 | Architectural terra cotta, enameled..... | 1116 | Architectural water colorists & pen & ink artists..... | 35 | Asphalt paving protecting strip..... | 37 |
| Anti-friction dumb waiter pulleys..... | 911 | Architectural water colorists & pen & ink artists..... | 35 | Architectural wood turning..... | 1210 | Asphalt paving tools..... | 1142 |
| Anti-friction metals..... | 10 | Architectural wrought bronze..... | 110 | Architectural wrought interior woodwork..... | 1211 | Asphalt pipe dip..... | 37 |
| Antimonial lead..... | 10 & 581 | Architectural wrought interior woodwork..... | 1211 | Architectural & interior enuphyll bronze construction..... | 428 | Asphalt pitch..... | 825 |
| Antimony..... | 10 | Architectural & ornamental iron..... | 548 | Architectural & ornamental iron..... | 548 | Asphalt pitch & tar furnaces..... | 454 |
| Antique fonce & verdatre marble..... | 750 | | | | | Asphalt plant builders..... | 37 |
| Anti-rail creepers..... | 296 | | | | | Asphalt rakes..... | 935 |
| Anti-rattlers..... | 10 | | | | | Asphalt, ready roofing..... | 992 |
| Anti-rust lacquers..... | 570 | | | | | Asphalt road rollers (see rollers, steam road)..... | |
| Anti-rust paper..... | 815 | | | | | Asphalt rollers, steam..... | 951 |
| Anti-rust paste..... | 817 | | | | | Asphalt roofing tile..... | 997 |
| Anti-spreader chains..... | 217 | | | | | Asphalt scrapers..... | 1023 |
| Anvil, vise & drilling machines, combined..... | 619 | | | | | Asphalt separators..... | 37 |
| Anvils..... | 11 | | | | | Asphalt varnishes & japans..... | 1174 |
| Anvils, bench..... | 11 | | | | | Asphalt & cement dryers..... | 330 |
| Anvils, farm..... | 11 | | | | | Asphalt & mastic pots..... | 902 |
| Anvils, jewelers..... | 11 | | | | | Asphalt & saturated felts..... | 431 |
| Anvils, paper weight..... | 11 | | | | | Asphaltum mfrs. & importers..... | 37 |
| Anvils, plow..... | 11 | | | | | Asphaltum paints..... | 810 |
| Anvils, pneumatic..... | 11 | | | | | Asphaltum varnishes..... | 1174 |
| Anvils, saw..... | 1015 | | | | | Assay muffs..... | 37 |
| Apparatus (Apparatus is indexed under the headings descriptive of its kind)..... | | | | | | Assay & analytical balances..... | 45 |
| Apple cookers..... | 277 | | | | | Assayers & bullion furnaces..... | 454 |
| Apple corers..... | 279 | | | | | Assayers' supplies (see chemical apparatus)..... | |
| Apple graters..... | 490 | | | | | Assembly seating & opera chairs..... | 797 |
| Apple grating machines..... | 619 | | | | | Astronomical instruments..... | 545 |
| Apple grinder knives..... | 566 | | | | | Atlas steel castings..... | 195 |
| Apple paring machines..... | 619 | | | | | Atomizers, billow..... | 37 |
| Appliance for carpenters' brackets, adjustable..... | 2 | | | | | Attachment, draw-bar..... | 321 |
| Appliances fuel oil & gas burning..... | 453 | | | | | Attachments, automatic drilling..... | 322 |
| Appliances, grain elevator (machinery & appliances)..... | 641 | | | | | Attachments, card..... | 1118 |
| Appliances, pneumatic tool..... | 899 | | | | | Attachments, feeder clutch..... | 1122 |
| Appliances, stage light, electric..... | 1063 | | | | | Attachments, grinding, for engine lathes..... | 496 |
| Appliances, vacuum pan..... | 1162 | | | | | Attachments, hosiery stripping..... | 1124 |
| Appliances & guards, window cleaning..... | 1198 | | | | | Attachments, indicator..... | 542 |
| Applied letters, signs..... | 1045 | | | | | Attachments, knitting machine..... | 1124 |
| Apron conveyors..... | 273 | | | | | Attachments, loom..... | 1125 |
| Apron leather, rawhide..... | 1117 | | | | | Attachments, milling..... | 777 |
| | | | | | | Attachments, milling machine..... | 37 |
| | | | | | | Attachments, mule..... | 1126 |

| Page | Page | Page | Page |
|--|--|---|---|
| Attachments, radius planer.....1111 | Automatic ring forming machines.....658 | Automobile steering gears, irreversible.....471 | Baggage racks.....926 |
| Attachments, tapping, drill press.....1111 | Automatic safety elevators.....369 | Automobile steering gears, reversible.....471 | Baggage racks, automobile.....926 |
| Attachments, vise drilling.....1178 | Automatic scales.....1019 | Automobile steering wheels.....1192 | Baggage trucks.....1154 |
| Attemperators.....37 | Automatic scales, coal.....1019 | Automobile steps.....1079 | Bagging.....44 |
| Attrition mills.....777 | Automatic screw drivers.....1026 | Automobile supplies.....41 | Bagging machines, automatic (weighing, packing & bagging).....672 |
| Auditorium door hangers.....316 | Automatic screw machines.....662 | Automobile switches.....1101 | Bags, coal & coke.....44 |
| Auger bits.....64 | Automatic self-locking scuttle openers.....1029 | Automobile tank & muffler parts.....42 | Bags, filter.....1098 |
| Auger brick machines.....619 | Automatic self-weighing scale feeders.....1122 | Automobile tanks & mufflers.....42 | Bags, gas engine.....44 |
| Auger handles, adjustable.....500 | Automatic sewer flushers.....446 | Automobile tool sets.....1142 | Bags, plumbers'.....44 |
| Auger & bit heading presses.....903 | Automatic sheet metal & strip stock straighteners & cutters.....1039 | Automobile tools.....1142 | Bags, striking, rubber.....44 |
| Auger & gimlet mfrs.....37 | Automatic slack adjusters.....2 | Automobile tops.....1147 | Bags, tool (see tool bags).....44 |
| Augers, boring machine.....38 | Automatic steam coal buckets.....233 | Automobile trade names.....40 | Bags & bagging.....44 |
| Augers, bung (see borers, bung holes)..... | Automatic steam shovels.....1043 | Automobile trucks (see automobile builders)..... | Bails, universal.....45 |
| Augers, carpenters'.....38 | Automatic switches.....1101 | Automobile turntables.....1159 | Bake oven castings.....195 |
| Augers, earth.....38 | Automatic water heaters.....523 | Automobile wheel machinery.....619 | Bake oven tile.....1136 |
| Augers, flexible pipe cleaning.....38 | Automatic weighing machines.....619 | Automobile whistles.....1196 | Bakers' machinery.....619 |
| Augers, hollow.....38 | Automatic window sash holder.....1199 | Automobile wrenches.....1211 | Bakers' oven builders (see oven builders, etc.)..... |
| Augers, millwrights'.....38 | Automatic wire straighteners & cutters.....1207 | Automobile & bicycle bells.....56 | Bakers' shovels.....1043 |
| Augers, miners'.....38 | Automatic wood turnings.....1211 | Automotoneers.....42 | Baking enamels.....376 |
| Augers, post hole.....38 | Automatic wrenches.....1211 | Awls, ice (see picks, ice).....42 | Baking japans.....563 |
| Augers, rafting.....38 | Automobile annunciators.....10 | Awls, scratch, belt, etc.....42 | Baking or japanning burners.....177 |
| Augers, ring.....38 | Automobile axles.....42 | Awning chains.....217 | Baking ovens.....799 |
| Augers, ship.....38 | Automobile baggage racks.....926 | Awning fixtures.....42 | Baking varnishes.....1174 |
| Augers, telegraph.....38 | Automobile baskets, hampers & touring cases.....50 | Awning fixtures, blind.....42 | Balance doors, Pitt.....320 |
| Augers, well.....38 | Automobile batteries.....52 | Awning frame fittings.....441 | Balance, sash.....1003 |
| Autogenous welding.....1190 | Automobile bells.....56 | Awning hardware mfrs.....507 | Balance valves.....1164 |
| Autographic registers.....940 | Automobile boats.....38 | Awning hinges.....528 | Balances, assay & analytical.....45 |
| Automatic air vacuum valves.....1172 | Automobile bodies, metal.....70 | Awning hooks.....536 | Balances, locomotive spring.....589 |
| Automatic boring & tapping machines.....622 | Automobile bodies, wood.....70 | Awning lines (see sash cords)..... | Balances, spring.....45 |
| Automatic bottle filling machines.....622 | Automobile body machinery.....619 | Awning stripes (see cotton duck & canvas)..... | Balcony & veranda rails (see grills, wrought iron)..... |
| Automatic buckets.....112 | Automobile boiler shells.....72 | Awning & tackle pulleys.....911 | Bale breakers.....1117 |
| Automatic buckle machines.....624 | Automobile boilers.....72 | Awnings, corrugated steel.....42 | Bale buckles.....114 |
| Automatic buckle tongue machines.....624 | Automobile brake banding.....88 | Awnings, Venetian.....42 | Bale hooks.....536 |
| Automatic cellar drainers.....207 | Automobile brakes.....89 | Awnings & tents (see tents, railroad contractors')..... | Bale tie machines.....619 |
| Automatic cement weighing machines.....628 | Automobile buffers, electric.....114 | Axe handle machinery (see lathes, handle turning)..... | Bale ties.....1134 |
| Automatic chucking & turning machines.....629 | Automobile builders.....38 | Axe mfrs.....42 | Baled shavings.....1036 |
| Automatic coal handling plants.....233 | Automobile bumpers.....176 | Axes, ice.....42 | Baling & hay presses.....903 |
| Automatic coal scales.....1019 | Automobile burners.....177 | Axes, stoneworkers'.....230 | Ball bat machinery.....619 |
| Automatic coat & hat hook machines.....631 | Automobile castings.....195 | Axe clips.....42 | Ball bearing axles.....43 |
| Automatic cold roll pointing machines.....631 | Automobile chains (see chains, power transmission)..... | Axe cutter & screw plate, combined.....42 | Ball bearing butts (see hinges, ball bearing butt)..... |
| Automatic controllers, fire & flame.....273 | Automobile charging sets.....221 | Axe cutters.....301 | Ball bearing car wheels.....1193 |
| Automatic coupler forgings.....446 | Automobile cranes, portable.....292 | Axe cutting off & centering machines.....619 | Ball bearing chains.....217 |
| Automatic cross-over dumps.....334 | Automobile crankshafts.....296 | Axe gauges.....468 | Ball bearing drill presses.....322 |
| Automatic dies.....310 | Automobile cylinder boring machines.....619 | Axe grease.....491 | Ball bearing hangers (roller & ball bearing).....504 |
| Automatic door openers.....318 | Automobile drip pans.....328 | Axe grease boxes.....84 | Ball bearing show case sheaves.....1038 |
| Automatic door switches.....1101 | Automobile electrical equipment.....41 | Axe turning lathes.....577 | Ball bearing steel butt hinges.....528 |
| Automatic drilling attachments.....322 | Automobile engine starters.....376 | Axe upsetting machines.....619 | Ball bearing wheels.....1192 |
| Automatic drills.....322 | Automobile engines.....412 | Axe welding & upsetting machines.....619 | Ball bearing wheels & axles.....1196 |
| Automatic drive gates.....465 | Automobile equalizing gears.....470 | Axles, automobile.....42 | Ball bearings.....53 |
| Automatic dumb waiter doors.....332 | Automobile fenders & guards.....432 | Axles, ball or roller bearing.....43 | Ball cocks.....234 |
| Automatic elevator doors.....366 | Automobile fittings (parts & fittings).....41 | Axles, car & locomotive.....43 | Ball cranks.....296 |
| Automatic elevator gates.....367 | Automobile foot rests.....446 | Axles, carriage & wagon.....43 | Ball joints.....564 |
| Automatic engines.....412 | Automobile forgings.....446 | Axles, children's carriage.....43 | Ball mills.....777 |
| Automatic fire door fittings.....436 | Automobile fuel storage tanks.....1104 | Axles & shafts, hollow.....43 | Ball retainers.....45 |
| Automatic fire doors.....436 | Automobile gaskets.....465 | Axles & wheels, ball or roller bearing.....1196 | Ball valves.....1164 |
| Automatic fire doors, elevator.....366 | Automobile gasoline burners.....177 | Axminster looms.....1125 | Ball warpers.....1132 |
| Automatic fire escapes.....437 | Automobile gauges.....468 | Babbitt melting furnaces.....454 | Ball winders.....1132 |
| Automatic fire shutters.....1044 | Automobile gears & pinions.....473 | Babbitt metal.....43 | Ball & roller bearing automobile hubs.....541 |
| Automatic fire sprinklers.....1061 | Automobile hardware mfrs.....507 | Babbitt metal melters.....44 | Ballast balls for buoys.....45 |
| Automatic fireproof windows.....440 | Automobile heaters.....518 | Babbitt metal molds.....782 | Ballast cars.....184 |
| Automatic flour, grain-weighing & packing machines.....619 | Automobile holts.....531 | Babbitting devices, bearing.....44 | Ballast forks.....449 |
| Automatic furnace feeders.....454 | Automobile horns.....538 | Baby drillers, pneumatic.....895 | Ballast loaders & unloaders.....45 |
| Automatic gas burners.....176 | Automobile hubs, ball & roller bearing.....541 | Baby surfacers, pneumatic.....895 | Ballast placing device.....45 |
| Automatic gas shut-off.....462 | Automobile jacks.....561 | Back band buckles.....114 | Ballast plants.....45 |
| Automatic gate hook machines.....640 | Automobile kerosene burners.....177 | Back pressure valves.....1164 | Ballast, railroad.....45 |
| Automatic hatch doors.....517 | Automobile lamps, gas & oil.....572 | Back water traps.....1150 | Balling machines.....1117 |
| Automatic hatch doors, in case of fire only.....517 | Automobile lubricants.....592 | Back water valves.....1164 | Balling machines, twine.....1132 |
| Automatic hot rolled stock straightening & cutting machinery.....643 | Automobile lubricators.....594 | Backs, fire (screens & backs).....441 | Ballot boxes, steel & wood.....45 |
| Automatic lock & loop stitch lacers.....1125 | Automobile motors.....786 | Backs, sink.....1047 | Balls, ballast for buoys.....45 |
| Automatic machine work.....618 | Automobile mountings.....788 | Bacon slicing machines (beef & bacon).....620 | Balls, basket.....45 |
| Automatic organ bulldozers.....798 | Automobile mud guards.....788 | Badge pin machinery.....619 | Balls, ball, steel & wood.....45 |
| Automatic paper folding machines.....651 | Automobile mufflers.....788 | Bag filling machines.....619 | Balls, brass.....45 |
| Automatic peg & lace hole cutters.....1121 | Automobile name plates.....791 | Bag filters.....1098 | Balls, fall line.....45 |
| Automatic power conveyors.....273 | Automobile parts & fittings.....41 | Bag hardware mfrs. (trunk & bag).....508 | Balls, fall line.....45 |
| Automatic pumps.....914 | Automobile pressed steel frames.....452 | Bag holders.....534 | Balls for ball mills.....45 |
| Automatic railroad switches.....1101 | Automobile pumps.....914 | Bag looms.....1125 | Balls, flue.....45 |
| Automatic railways.....38 | Automobile rims.....943 | Bag making machinery.....619 | Balls, glass.....45 |
| | Automobile running gears.....471 | Bag mfrs., paper.....44 | Balls, golf.....45 |
| | Automobile sheet metal forms.....41 | Bag mountings.....44 | Balls, hollow.....45 |
| | Automobile sheets, steel.....1071 | Bag sewing machines.....1033 | Balls, pipe & flue.....45 |
| | Automobile springs.....1058 | Bag & barrel trucks.....1153 | Balls, steel.....45 |
| | Automobile stampings.....41 & 1064 | Bag & can carriers, street-sweeping.....184 | Balls, topmast.....1147 |
| | | Bag & sack filling and sewing machines.....619 | Balls, wood.....45 |
| | | Bagasse furnaces.....1098 | Balls, zinc.....45 |
| | | Baggage barrows.....48 | Balmer knitting machines.....1125 |
| | | Baggage checks.....222 | Baluster machinery.....619 |

| | Page | | Page | | Page | | Page |
|--|-----------|---|------|--|------|--|------|
| Band saw filing machines.. | 619 | Barrel headers..... | 517 | Bars, transom..... | 280 | Beam carts (pick-up or beam) | 193 |
| Band saw grinders..... | 493 | Barrel heaters..... | 518 | Barrel carts (hand & barrel) | 193 | Beam clamps..... | 226 |
| Band saw mills..... | 1016 | Barrel heating machines.. | 620 | Barytes | 50 | Beam coping machines.... | 620 |
| Band saw patch machines.. | 619 | Barrel hooks..... | 536 | Barytes, carbonate of..... | 182 | Beam grapples..... | 490 |
| Band saw pulleys & stands. | 912 | Barrel hoop driving machines | 620 | Base, head & corner block | | Beam punches..... | 924 |
| Band saw setting machines. | 620 | Barrel hoop machinery..... | 620 | mfrs. | 280 | Beam scales..... | 1019 |
| Band saw stave jointing machines | 620 | Barrel, keg, stave & heading machinery | 620 | Base knobs..... | 570 | Beam shears..... | 1036 |
| Band sawing machines..... | 620 | Barrel lathes..... | 577 | Bases, battery cut-out..... | 50 | Beam shears & punches.... | 1038 |
| Band sawing machines for metal | 620 | Barrel machine knives.... | 566 | Bases, cafe table..... | 50 | Beam straps..... | 1096 |
| Band saws..... | 1017 | Barrel nails | 789 | Bases, incandescent lamp... | 50 | Beaman & Smith tap holder.. | 1111 |
| Band saws, cut-off..... | 1017 | Barrel packers..... | 48 | Bases, oil cup, pressure, oiling systems..... | 795 | Beamers | 1117 |
| Band sprue sawing machines | 620 | Barrel packers, sugar..... | 1097 | Bases, post..... | 901 | Beaming rathes..... | 1117 |
| Band tension scales..... | 1129 | Barrel paints..... | 810 | Bases, trolley..... | 50 | Beams, brake..... | 88 |
| Band & hoop iron & steel.. | 558 | Barrel pumps..... | 914 | Bases & fittings..... | 50 | Beams, steel plow..... | 832 |
| Band & jig saw blades..... | 1015 | Barrel rivets..... | 945 | Basin clamps..... | 223 | Beam cleaners | 228 |
| Bandage finishing machines. | 1122 | Barrel settings-up machines. | 620 | Basin cocks..... | 234 | Beam cultivators..... | 299 |
| Bandage (surgeons') cutting machines | 620 | Barrel swings..... | 1100 | Basin stoppers (bath & basin) | 1092 | Beam harvester knives..... | 566 |
| Banding, braided..... | 1118 | Barrel trucks..... | 1153 | Basin traps..... | 1150 | Beam harvesters..... | 516 |
| Banding machines..... | 1117 | Barrel washing machines.. | 620 | Basin wrenches..... | 1211 | Beam hullers (pea & bean).. | 541 |
| Banding machines, armature | 619 | Barrels, amalgamating (pans & barrels) | 9 | Basins | 50 | Beam pickers..... | 819 |
| Banding rolls, hand..... | 1129 | Barrels, chlorinating..... | 48 | Basins, catch..... | 50 | Beam planters..... | 826 |
| Banding, spindle..... | 1130 | Barrels, clean-up or amalgam | 48 | Basins, mill..... | 51 | Beam separators..... | 1030 |
| Bandings, cotton..... | 1120 | Barrels, cyanide..... | 48 | Basket balls..... | 45 | Beam snippers..... | 1054 |
| Bands, boom..... | 45 | Barrels, japanning..... | 48 | Basket hinges..... | 528 | Beam sorters..... | 1056 |
| Bands, box..... | 46 | Barrels, seamless pressed steel | 48 | Basket hooks (crate & basket) | 536 | Beam & pea threshers..... | 1134 |
| Bands, brake..... | 45 | Barrels, second hand..... | 48 | Basket machinery..... | 620 | Beam & seed sorting machinery | 620 |
| Bands, brass..... | 46 | Barrels, sheet steel..... | 48 | Basket trucks..... | 1154 | Bearing babbiting devices.. | 44 |
| Bands, brush..... | 46 | Barrels, steam drying..... | 48 | Basket washers..... | 1183 | Bearing rods roller..... | 948 |
| Bands, hose..... | 46 | Barrels, tumbling or rumb-ling | 48 | Baskets, automobile..... | 50 | Bearings, anti-friction.... | 53 |
| Bands, hosier..... | 1124 | Barrels, wire thrashing.... | 48 | Baskets, counter display... .. | 50 | Bearings, ball..... | 53 |
| Bands, neck yoke..... | 792 | Barrows, baggage & express | 48 | Baskets, dipping..... | 50 | Bearings, bronze metal..... | 53 |
| Bands, rubber..... | 999 | Barrows, brick..... | 48 | Baskets, hampers & touring cases, automobile..... | 50 | Bearings, car journal (see bearings, journal)..... | |
| Bands, rubber truck..... | 1153 | Barrows, charging, concrete | 48 | Baskets, rawhide..... | 51 | Bearings, cone..... | 53 |
| Bands, shingle & box..... | 46 | Barrows, charging, furnace. | 49 | Baskets, sheet steel..... | 51 | Bearings, electrical..... | 54 |
| Bands, spindle hook..... | 1130 | Barrows, coal (see barrows, steel) | 48 | Baskets, waste paper..... | 51 | Bearings, graphite | 54 |
| Bank counter screens..... | 1024 | Barrows, coke..... | 48 | Baskets, wire..... | 51 | Bearings, hard fibre (see fibre mfrs., hard)..... | |
| Bank fixtures..... | 443 | Barrows, concrete charging. | 48 | Basting spoons..... | 1058 | Bearings, journal..... | 54 |
| Bank safes, patent screw door | 46 | Barrows, contractors, (see wheelbarrows)..... | 48 | Batch mixing plants..... | 51 | Bearings, lead lined..... | 54 |
| Bank vaults..... | 46 | Barrows, folding, steel frame | 48 | Bath cabinets, thermal, etc. | 51 | Bearings, locomotive | 54 |
| Bank & office fixtures, metallic | 46 | Barrows, foundry..... | 48 | Bath cocks..... | 234 | Bearings, Lumen bronze.... | 54 |
| Bank & office furniture.... | 458 | Barrows, furnace charging. | 49 | Bath curtains, rubber..... | 299 | Bearings, motor | 54 |
| Bank & office railings..... | 46 | Barrows, garden..... | 49 | Bath heaters (see heaters, water)..... | | Bearings, oilless..... | 54 |
| Bank & office railing spring hinges | 530 | Barrows, gas works (see barrows, coke) | 49 | Bath or tank water heaters. | 523 | Bearings, phosphor bronze.. | 54 |
| Bank & safety deposit vaults | 47 | Barrows, hooded, coal or coke | 49 | Bath room fixtures and furnishings | 51 | Bearings, roller..... | 54 |
| Banks, toy..... | 47 & 1148 | Barrows, locomotive coal station | 49 | Bath room mirrors..... | 781 | Bearings, self-oiling.. 54 & 1030 | |
| Banner spear heads..... | 1057 | Barrows, mortar..... | 49 | Bath room scales..... | 1019 | Bearings, side..... | 55 |
| Bar clamps, measuring.... | 227 | Barrows, ore..... | 49 | Bath stoppers..... | 1092 | Bearings, spiral..... | 55 |
| Bar copper (bolt & bar).... | 278 | Barrows, pig iron..... | 49 | Bath traps..... | 1150 | Bearings, thrust..... | 55 |
| Bar drawing machines..... | 659 | Barrows, smelter..... | 49 | Bath tub enamels..... | 376 | Beaters, egg | 55 |
| Bar fixtures (store & bar)... | 1092 | Barrows, steel..... | 49 | Bath tub seats..... | 1030 | Beating engines..... | 412 |
| Bar iron limit gauges..... | 468 | Barrows, steel tubular..... | 49 | Bath tub slats..... | 1053 | Becks, dye..... | 1122 |
| Bar iron & steel..... | 558 | Barrows, stone..... | 49 | Bath tubs, ceramic (see bath tubs, porcelain)..... | | Bed plates, paper mill engines | 949 |
| Bar irons..... | 561 | Barrows, track..... | 49 | Bath tubs, copper..... | 51 | Bed screws..... | 1027 |
| Bar lead molds..... | 782 | Barrows, wood (see wheelbarrows)..... | 49 | Bath tubs, double-seamed solid copper..... | 51 | Bed springs..... | 1059 |
| Bar lock system of skylights | 1051 | Bars, aluminum (see alloys, aluminum)..... | 49 | Bath tubs, enameled iron... .. | 51 | Beds, metal, for railroads.. | 55 |
| Bar lock vault & floor lights. | 1175 | Bars, angle..... | 49 | Bath tubs, folding..... | 51 | Beds, stone & slate rubbing. | 1000 |
| Bar mfrs. grate..... | 490 | Bars, arch..... | 49 | Bath tubs, galvanized steel, enameled | 51 | Bedstead angles, steel..... | 1071 |
| Bar pointing machines..... | 620 | Bars, boring..... | 49 | Bath tubs, infants'..... | 51 | Bedstead enamels..... | 376 |
| Bar staples..... | 1066 | Bars, capstan (see tools, logging)..... | 50 | Bath tubs, porcelain..... | 51 | Bedstead mfrs., brass or iron | 55 |
| Bar tin..... | 1138 | Bars, carpenters' prying.... | 49 | Bath tubs, slate (see laundry tubs, slate)..... | | Bedstead tubing, iron or steel | 1157 |
| Bar & pig tin..... | 1138 | Bars, claw..... | 49 | Baths, plunge & shower, for ships | 52 | Bee keepers' supplies..... | 56 |
| Bar & plate shears..... | 1036 | Bars, commutator..... | 49 | Baths, portable shower.... | 52 | Beef slicing machines..... | 620 |
| Bar & rod cutters, iron.... | 302 | Bars, coupling..... | 50 | Baths, slate shower..... | 1052 | Beer bottle tops (milk & beer bottle) | 1147 |
| Bars & rods, glass..... | 1123 | Bars, crow..... | 297 | Batteries, automobile..... | 52 | Beer cocks (ale & beer).... | 234 |
| Barbed nails..... | 789 | Bars, cylinder boring (see cylinder boring machines)..... | 308 | Batteries, closed circuit.... | 52 | Beer coolers..... | 277 |
| Barbed wire..... | 1201 | Bars, Delta metal..... | 50 | Batteries, diffusion..... | 1097 | Beer filters (ale & beer).... | 434 |
| Barbling machines, wire.... | 672 | Bars, digging..... | 50 | Batteries, dry | 52 | Beet cultivators..... | 299 |
| Barbing machines, wire nail | 673 | Bars, draw..... | 50 | Batteries, open circuit..... | 52 | Beet diggers..... | 313 |
| "Bard" bushings, adjustable pipe | 177 | Bars, driving..... | 50 | Batteries, stamp..... | 52 | Beet harvesters..... | 516 |
| Barge builders..... | 47 | Bars, eye..... | 50 | Batteries, storage..... | 52 | Beet planters..... | 826 |
| Bark extracts..... | 428 | Bars, ice..... | 50 | Battery accessories..... | 53 | Beet planting drills..... | 322 |
| Bark grinder knives..... | 566 | Bars, interlocking channel.. | 50 | Battery carbons..... | 183 | Beet pulpers..... | 910 |
| Bark mills..... | 777 | Bars, lining & tamping.... | 50 | Battery chemicals..... | 53 | Beet seeders..... | 1030 |
| Bark removers..... | 47 | Bars, low phosphorous melting | 50 | Battery coppers..... | 53 | Beet sugar machinery..... | 620 |
| Barking machines, wood.... | 674 | Bars, metallic sash..... | 769 | Battery jars..... | 53 | Beet sugar syrup tanks.... | 1105 |
| Barley machinery..... | 620 | Bars, mine spike..... | 50 | Battery jars, rubber..... | 53 | Beet topper knives..... | 566 |
| Barley separators..... | 1030 | Bars, paper mill engine.... | 50 | Battery motors | 786 | Beet washing & slicing machinery | 1097 |
| Barn door bolts..... | 79 | Bars, pinch..... | 50 | Battery zincs..... | 53 | Belaying pins..... | 821 |
| Barn door hangers..... | 316 | Bars, quarry..... | 50 | Beaded hammers, pneumatic | 895 | Belgian Portland cement importers | 211 |
| Barn door latches..... | 575 | Bars, sash, steel..... | 1003 | Beaded machines (crimping & beading)..... | 634 | Bell centering tools..... | 1142 |
| Barn door lock mfrs..... | 587 | Bars, shaft..... | 50 | Beads, plasterers' steel corner | 829 | Bell cord couplings..... | 290 |
| Barn door rails..... | 933 | Bars, shutter..... | 50 | Beam bending rolls..... | 954 | Bell cord pulleys..... | 911 |
| Barn door rollers..... | 949 | Bars, splice (see rail braces, etc.)..... | 1071 | Beam callipers..... | 179 | Bell cords, round leather... .. | 279 |
| Barn door stay rollers..... | 949 | Bars, steel, finished..... | 1071 | | | Bell cords (trolley, arc lamp & bell) | 279 |
| Barney cars..... | 184 | Bars, steel sheet..... | 1074 | | | Bell cords & couplings..... | 58 |
| Barometer scales..... | 1021 | Bars, towel (see bath room fixtures, etc.)..... | | | | Bell foundries..... | 56 |
| Barometers..... | 47 | | | | | Bell-hangers' bits..... | 64 |
| Barometers, aneroid..... | 47 | | | | | Bell ringers, locomotive.... | 589 |
| Barometric condensers..... | 247 | | | | | Bell traps..... | 1150 |
| Barrel bolts..... | 70 | | | | | Bellows, blacksmiths', molders, etc..... | 56 |
| Barrel boring machines.... | 620 | | | | | Bellows, brass & wood.... | 56 |
| Barrel bung tins..... | 176 | | | | | Bells, automobile & bicycle. | 56 |
| Barrel carts (hand & barrel) | 193 | | | | | Bells, car (bells & gongs)... | 57 |
| Barrel elevators..... | 369 | | | | | | |
| Barrel fillers..... | 434 | | | | | | |
| Barrel gauges..... | 468 | | | | | | |

INDEX OF CONTENTS.

| | Page | | Page | | Page | | Page |
|--|------|--|-----------|---|----------|---|------|
| Bells, chime..... | 56 | Bench shears..... | 1036 | Bicycle wheel truing stands | 63 | Blades, hack saw..... | 1015 |
| Bells, church..... | 56 | Bench stops..... | 62 | Bicycle & pocket wrenches..... | 1211 | Blades, metal fan..... | 65 |
| Bells, cow..... | 56 | Bench vises..... | 1179 | Bidets..... | 63 | Blades, metal shear..... | 66 |
| Bells, door..... | 56 | Benches, cabinet & pattern makers', etc..... | 62 | Bilge pumps..... | 914 | Blades, saw (see saw blades). | |
| Bells, electric..... | 56 | Benches, cutting..... | 62 | Bill hooks..... | 536 | Blades, shoe cutters' extension..... | 66 |
| Bells, engine..... | 56 | Benches, draw..... | 62 | Billet cars..... | 184 | Blades, stone saw, steel..... | 1091 |
| Bells, extension ringing (see bells, telephone). | | Benches, folding..... | 62 | Billet heating furnaces..... | 454 | Blanchers, peanut..... | 66 |
| Bells, farm..... | 57 | Benches, hydraulic draw..... | 62 | Billet mills..... | 777 | Blanchers, peanut (hullers or blanchers)..... | 541 |
| Bells, fire alarm, electric..... | 57 | Benches, manual training..... | 62 | Billet & bloom shears..... | 1036 | Blankets, printers' & lithographers'..... | 66 |
| Bells, fog..... | 57 | Benches, movable & stationary..... | 62 | Billets, steel..... | 63 | Blanking dies..... | 311 |
| Bells, highway crossing..... | 57 | Benches, saw..... | 1015 | Billard table beds, slate..... | 63 | Blanks, caliper gauge..... | 66 |
| Bells, house..... | 57 | Benches, scraper..... | 62 | Billiard & pool table cushions..... | 300 | Blanks, check, brass..... | 221 |
| Bells, magneto (see bells, telephone). | | Benches, wire drawing (see wire drawing machinery). | | Billiard & pool tables, portable for houses..... | 64 | Blanks, chuck (chuck & chuck blanks)..... | 225 |
| Bells, school, fire & factory (see bells, church). | | Benders, angle & eye, hand power..... | 62 | Billing machines (see typewriters, adding & billing). | | Blanks, key..... | 66 |
| Bells, sleigh..... | 57 | Benders, conduit (see conduit bending machines). | | Bilow atomizers..... | 37 | Blanks, glass opal..... | 476 |
| Bells, telephone..... | 57 | Benders, glass..... | 474 | Bimetallic plated traps..... | 1150 | Blanks, railroad..... | 929 |
| Bells, tubular..... | 57 | Benders, hook & eye..... | 62 | Binder chains..... | 217 | Blanks, thumb, nut & screw..... | 66 |
| Bells & gongs, car, etc..... | 57 | Benders, lead pipe..... | 62 | Binder, concrete..... | 244 | Blast forges..... | 446 |
| Bells & gongs, unmounted..... | 57 | Benders, rail..... | 928 | Binder twine..... | 1160 | Blast furnace castings..... | 195 |
| Bells & quoits, dumb..... | 332 | Benders, ring..... | 63 | Binder & header trucks..... | 1154 | Blast furnace engineers..... | 379 |
| Belt awls..... | 42 | Benders, tire..... | 63 | Binders, corn..... | 280 | Blast furnace gas burners..... | 176 |
| Belt cement..... | 57 | Bending machines..... | 620 & 624 | Binders, harvest (see harvesters). | | Blast furnace hoists..... | 532 |
| Belt clamps..... | 226 | Bending machines, conduit pipe..... | 632 | Binders, rice..... | 943 | Blast furnace linings..... | 586 |
| Belt conveyors..... | 273 | Bending machines, coupling..... | 633 | Binders & trimmers, lath..... | 575 | Blast furnace machinery..... | 621 |
| Belt cutting machines..... | 620 | Bending machines (crimping & bending)..... | 634 | Binding posts..... | 901 | Blast furnace supplies..... | 66 |
| Belt dressing..... | 57 | Bending machines, eye..... | 638 | Binnacles..... | 64 | Blast furnace valves..... | 1164 |
| Belt driven pumps..... | 914 | Bending machines, hand..... | 642 | Binoculars, telescopes & marine glasses..... | 64 | Blast furnace & steel works construction..... | 66 |
| Belt driven well machines..... | 672 | Bending machines, hook..... | 642 | Bins, cement, steel..... | 211 | Blast furnaces..... | 454 |
| Belt fasteners..... | 58 | Bending machines, hydraulic..... | 621 | Bins, hardware, movable..... | 505 | Blast gates..... | 465 |
| Belt filling..... | 58 | Bending machines, pipe..... | 653 | Bins, steel..... | 64 | Blast gauges (see steam gauges). | |
| Belt folding machines..... | 620 | Bending machines, rim..... | 658 | Bins, wire..... | 64 | Blast hole drilling machines..... | 621 |
| Belt hardware mfrs..... | 507 | Bending machines, tube..... | 621 | Bird cage hooks..... | 536 | Blast nozzles..... | 792 |
| Belt hoists..... | 531 | Bending machines, wood..... | 674 | Biscuit machinery (cracker & biscuit)..... | 633 | Blast & gas valves..... | 1164 |
| Belt holders..... | 58 | Bending presses..... | 903 | Bismuth..... | 64 | Blasting apparatus, electric..... | 336 |
| Belt hole guards..... | 1117 | Bending rolls (bending & straightening)..... | 954 | Bit-brace drilling machines..... | 636 | Blasting cable reels..... | 938 |
| Belt hooks (see belt fasteners). | | Bending rolls, hand & belt power..... | 955 | Bit-brace holders..... | 535 | Blasting fuse, caps, etc..... | 68 |
| Belt knives..... | 567 | Bending, straightening & punching machines..... | 621 | Bit-brace nut wrench..... | 1213 | Blasting paper..... | 816 |
| Belt lacing..... | 58 | Bending & forging machines..... | 639 | Bit-brace reamers..... | 937 | Bleachers, knit goods..... | 1117 |
| Belt lacing machines..... | 620 | Bending & forming machines..... | 639 | Bit-brace taps..... | 1111 | Bleachery eyes, rubber..... | 66 |
| Belt makers' machinery..... | 620 | Bending & straightening machines, rail..... | 658 | Bit braces..... | 64 | Bleaching kiers..... | 1124 |
| Belt or elevator bolts..... | 79 | Bending & straightening rolls..... | 954 | Bit chains..... | 217 | Bleaching machinery..... | 1117 |
| Belt power bending rolls..... | 955 | Bends, lead..... | 582 | Bit drills, routing..... | 326 | Bleaching tubs..... | 1132 |
| Belt punches..... | 923 | Bends, return..... | 63 | Bit gauges..... | 468 | Blending & sifting machines..... | 621 |
| Belt rivets..... | 945 | Bends & coils, pipe..... | 822 | Bit point drills..... | 323 | Blind adjusters, window..... | 1198 |
| Belt shifters..... | 58 | Bends & pipe, copper..... | 823 | Bit stock drills..... | 323 | Blind awning fixtures..... | 42 |
| Belt stitching machinery..... | 620 | Bent tail dogs..... | 315 | Bit & auger heading presses..... | 903 | Blind fasteners..... | 429 |
| Belt strapping machines..... | 620 | Bent wire glass..... | 474 | Bits, auger..... | 64 | Blind hinges..... | 528 |
| Belt stretching machines..... | 620 | Bent wood..... | 1209 | Bits, bell hangers'..... | 64 | Blind machinery (sash, door & blind)..... | 661 |
| Belt studs..... | 58 | Benzol refiners..... | 63 | Bits, countersink..... | 64 | Blind slat crimping machines..... | 621 |
| Belt tighteners..... | 58 | Berry boxes..... | 84 | Bits, dowel..... | 64 | Blind slat sawing machines..... | 621 |
| Belt webbing..... | 58 | Berths & bunks, metallic..... | 63 | Bits, drill..... | 64 | Blind slat saws..... | 1017 |
| Belt & reversing elevator switches..... | 369 | Besemer converters..... | 273 | Bits, electricians'..... | 64 & 328 | Blind tenons..... | 66 |
| Belting mfrs..... | 58 | Besemer coppered rods..... | 947 | Bits, expansive..... | 64 | Blind valves..... | 1165 |
| Belting mfrs., "Alpha"..... | 61 | Besemer plant ladles..... | 571 | Bits, gimlet..... | 64 | Blind wiring machines..... | 621 |
| Belting mfrs., angular..... | 61 | Bevel squares..... | 1062 | Bits, hollow chisel..... | 64 | Blinds, inside folding..... | 66 |
| Belting mfrs., camel's hair..... | 61 | Bevelers, glass..... | 474 | Bits, hub boring..... | 64 | Blinds, inside sliding..... | 66 |
| Belting mfrs., canvas, rawhide, center..... | 61 | Reveling machines..... | 621 | Bits, machine..... | 64 | Blinds, sashes & doors..... | 1004 |
| Belting mfrs., canvas stitched..... | 61 | Beveling machines (punching, beveling & trimming)..... | 657 | Bits, mining machine..... | 65 | Blinds, Venetian..... | 66 |
| Belting mfrs., chain or link..... | 61 | Beveling shears..... | 1036 | Bits, rail drill..... | 65 | Bliss incline presses..... | 903 |
| Belting mfrs., conveyor..... | 61 | Bevels..... | 63 | Bits, reamer..... | 65 | Bliss system car lighting apparatus..... | 182 |
| Belting mfrs., dynamo..... | 61 | Bibb nose cocks..... | 234 | Bits, screw driver..... | 65 | Block chain & roller sprockets..... | 1061 |
| Belting mfrs., elevator..... | 61 | Bibb screws..... | 1027 | Bits, tapping..... | 65 | Block chains..... | 217 |
| Belting mfrs., leather..... | 61 | Bibb seat dressers..... | 322 | Bits & drills, electricians'..... | 328 | Block sheaves, tackle..... | 1039 |
| Belting mfrs., perforated..... | 61 | Bibb seat reamers..... | 937 | Blackboard surfacing material..... | 65 | Block stands, swage..... | 1100 |
| Belting mfrs., rawhide..... | 62 | Bibbs (see cocks & bibbs). | | Blackboards (compo board)..... | 65 | Block system signals..... | 1045 |
| Belting mfrs., rawhide, canvas center..... | 62 | Bicycle bells..... | 56 | Blackboards, "Compresso"..... | 65 | Block system, third rail..... | 1134 |
| Belting mfrs., rope..... | 62 | Bicycle bolts..... | 79 | Blackboards, school "Compresso"..... | 65 | Block tin pipe..... | 822 |
| Belting mfrs., round or twist..... | 62 | Bicycle chain presses (see presses, power)..... | | Blackboards, slate..... | 65 | Blocking, adjustable..... | 66 |
| Belting mfrs., rubber..... | 62 | Bicycle chains..... | 217 | Black, bone..... | 83 | Blocks, anchor tackle..... | 66 |
| Belting mfrs., sewing machine..... | 62 | Bicycle graphite..... | 490 | Black diamonds..... | 65 & 183 | Blocks, asphalt paving..... | 817 |
| Belting mfrs., solid cotton..... | 62 | Bicycle lamps..... | 572 | Black lead..... | 65 | Blocks, boat..... | 66 |
| Belting mfrs., steel wire..... | 62 | Bicycle lanterns..... | 575 | Black marble..... | 750 | Blocks, broom or brush..... | 66 |
| Belting mfrs., thresher..... | 62 | Bicycle lock mfrs..... | 587 | Black steel rods..... | 947 | Blocks, butchers'..... | 66 |
| Belting mfrs., waterproof..... | 62 | Bicycle machinery..... | 621 | Black & blue prints & papers..... | 65 | Blocks, cargo-hoisting, iron & wood..... | 67 |
| Belting mfrs., woven leather..... | 62 | Bicycle mfrs..... | 63 | Blacking machinery..... | 1117 | Blocks, chain (see hoists, chain)..... | |
| Belting & harness repairing riveters..... | 944 | Bicycle nippers..... | 792 | Blackings, shoe..... | 1042 | Blocks, chain hoisting..... | 67 |
| Belts, linemen's..... | 62 | Bicycle nuts..... | 794 | Blacksmiths' bellows..... | 56 | Blocks, chimney, perforated radial..... | 222 |
| Belts, polishing..... | 62 | Bicycle oils..... | 797 | Blacksmiths' cones..... | 248 | Blocks, corner, base & head..... | 280 |
| Bench anvils..... | 11 | Bicycle parts & sundries..... | 63 | Blacksmiths' hammers..... | 498 | Blocks, cupola (lining or blocks)..... | 299 |
| Bench centers..... | 216 | Bicycle pumps..... | 914 | Blacksmiths' hammers, foot power..... | 498 | Blocks, davit..... | 67 |
| Bench corking machines..... | 633 | Bicycle racks..... | 927 | Blacksmiths' leather aprons..... | 11 | Blocks, deck & snatch (see blocks, tackle)..... | |
| Bench drills..... | 322 | Bicycle saddle presses..... | 903 | Blacksmiths' mandrels or cones..... | 745 | Blocks, derrick..... | 67 |
| Bench grinders..... | 493 | Bicycle saddles..... | 1001 | Blacksmiths' nippers..... | 792 | Blocks, derrick foot..... | 67 |
| Bench hooks..... | 536 | Bicycle screws..... | 1027 | Blacksmiths' punches..... | 923 | Blocks, differential chain..... | 67 |
| Bench lathes..... | 577 | Bicycle spoke threaders..... | 63 | Blacksmiths' supplies..... | 65 | Blocks, dock..... | 67 |
| Bench legs..... | 62 | Bicycle springs..... | 1059 | Blacksmiths' taps..... | 1111 | Blocks, fountain, iron & brass..... | 67 |
| Bench milling machines (bench or hand)..... | 647 | Bicycle tubing..... | 1157 | Blacksmiths' tongs..... | 1141 | Blocks, fuse..... | 67 |
| Bench planers..... | 825 | Bicycle vises..... | 1179 | Blacksmiths' tools..... | 1142 | Blocks, granite paving..... | 817 |
| Bench presses..... | 903 | | | Blacksmiths' vises..... | 1179 | | |
| Bench screws (hand & bench)..... | 1028 | | | | | | |

| | Page | | Page | | Page | | Page |
|---|---------|--|------|--|------|--|------|
| Blocks, hollow building..... | 67 | Boards, panel, etc. (see switchboards, light & power). | | Boiler testing pumps..... | 915 | Bolts, eye (hook & eye)..... | 81 |
| Blocks, hollow concrete building | 67 | Boards, plaster, slabs, etc. | 827 | Boiler tube cleaners (see boiler, flue & tube cleaners). | | Bolts, foundation..... | 81 |
| Blocks, hook | 67 | Boards, shoveling..... | 69 | Boiler tube cutters (see cutters, tube). | | Bolts, hanger..... | 81 |
| Blocks, iron..... | 67 | Boards, sounding..... | 69 | Boiler tubes..... | 72 | Bolts, Harvey grip..... | 81 |
| Blocks, iron, coal holsting.. | 67 | Boards, stove..... | 1092 | Boiler washing & testing apparatus | 72 | Bolts, hook head..... | 81 |
| Blocks, iron, gin..... | 67 | Boards, tar..... | 70 | Boiler & engine combined.. | 377 | Bolts, hook & eye..... | 81 |
| Blocks, malleable iron..... | 67 | Boards, wall..... | 1182 | Boilers, automobile..... | 72 | Bolts, insulated..... | 81 |
| Blocks or linings, cupola.... | 299 | Boards & papers, press..... | 1128 | Boilers, bath (see boilers, range, galvanized iron). | | Bolts, interlocking..... | 81 |
| Blocks, paving (see paving blocks, various kinds). | | Boat blocks..... | 66 | Boilers, fire-box, heating & power | 436 | Bolts, key..... | 81 |
| Blocks, painters' | 67 | Boat clamps..... | 226 | Boilers, house heating..... | 72 | Bolts, loom..... | 81 |
| Blocks, pillow (see power transmitting machinery). | | Boat cleats..... | 229 | Boilers, locomotive fire box. | 72 | Bolts, machine..... | 81 |
| Blocks, plaster..... | 827 | Boat, fire nozzles..... | 792 | Boilers, portable, on wheels | 72 | Bolts, neck..... | 82 |
| Blocks, pulley, for electric light poles | 910 | Boat hooks..... | 536 | Boilers, range, copper..... | 72 | Bolts, North patented..... | 82 |
| Blocks, quarry | 67 | Boat spikes..... | 1057 | Boilers, range, galvanized iron | 72 | Bolts, planer head..... | 82 |
| Blocks, rail | 67 | Boat spikes, composition.... | 1057 | Boilers, range, seamless pressed steel..... | 72 | Bolts, plow..... | 82 |
| Blocks, resistance | 942 | Boat tanks (car & boat).... | 1105 | Boilers, steam (see boilers, tubular). | | Bolts, screw & nut eye..... | 82 |
| Blocks, "Shawmut" outlet.. | 67 | Boat & launch trimmings.. | 70 | Boilers, steel, sectional.... | 72 | Bolts, shackle..... | 82 |
| Blocks, sheave, for derricks. | 67 | Boats, auto..... | 785 | Boilers, tubular..... | 72 | Bolts, shaft..... | 82 |
| Blocks, shuttle..... | 1129 | Boats, knocked-down..... | 70 | Boilers, water tube..... | 77 | Bolts, shutter..... | 82 |
| Blocks, snatch, for wire rope | 68 | Boats, life..... | 70 | Boilers & pumps, combined. | 923 | Bolts, sink..... | 82 |
| Blocks, snatch, iron or wood | 68 | Boats, motor..... | 785 | Bolster springs..... | 1059 | Bolts, sleigh shoe..... | 82 |
| Blocks, stone paving..... | 818 | Boats, steel..... | 70 | Bolsters, car truck & body.. | 182 | Bolts, stove..... | 82 |
| Blocks, street railway paving | 818 | Bob sleds..... | 1053 | Bolsters, spindle..... | 1130 | Bolts, strap..... | 82 |
| Blocks, swage..... | 1100 | Bobbin gears..... | 1130 | Bolt cases | 79 | Bolts, structural (bridge & structural) | 79 |
| Blocks, tackle..... | 68 | Bobbin holders..... | 1117 | Bolt clamps, Pearson King. | 226 | Bolts, stud..... | 82 |
| Blocks, vitrified paving..... | 818 | Bobbin machinery (spool & bobbin) | 666 | Bolt clippers..... | 230 | Bolts, tap..... | 82 |
| Blocks, wire rope..... | 68 | Bobbin rings..... | 1117 | Bolt copper..... | 278 | Bolts, thumb..... | 83 |
| Blocks, wood paving..... | 818 | Bobbin stop motions..... | 1126 | Bolt cutter hobs..... | 531 | Bolts, tire..... | 83 |
| Blocks, wrecking..... | 68 | Bobbin winders..... | 1117 | Bolt cutters..... | 301 | Bolts, toggle..... | 83 |
| Blocks, yacht..... | 68 | Bobbins | 1117 | Bolt dies, solid..... | 312 | Bolts, track..... | 83 |
| Bloom & billet shears..... | 1036 | Bobs, plumb..... | 836 | Bolt dogs..... | 315 | Bolts, trolley span, wire work | 83 |
| Blotting paper..... | 816 | Bodies, automobile, metal.. | 70 | Bolt drivers, pneumatic drift | 896 | Bolts, wall plate..... | 83 |
| Blow cases..... | 68 | Bodies, automobile, wood.. | 70 | Bolt ends..... | 376 | Bolts, whiffletree..... | 83 |
| Blow torches, gasoline..... | 1147 | Bodies, valve..... | 1162 | Bolt fasteners (nut & bolt).. | 430 | | |
| Blow-off boiler protector.... | 70 | Body & truck bolsters, car.. | 182 | Bolt gauges..... | 468 | Bolts, window (door & window) | 80 |
| Blow-off cocks..... | 234 | Bolled rawbone..... | 937 | Bolt header & shoeing vise, combined | 77 | Bond paper mfrs..... | 816 |
| Blow-off tanks..... | 1105 | Boiler alarms, low water.. | 8 | Bolt heading machines..... | 621 | Bonds, rail..... | 928 |
| Blow-off valves..... | 1165 | Boiler arch plates..... | 70 | Bolt lathes..... | 577 | Bone black..... | 83 |
| Blow pipes & brazing apparatus | 68 | Boiler arches..... | 70 | Bolt machinery..... | 621 | Bone charcoal..... | 221 |
| Blow & exhaust piping..... | 427 | Boiler blow-off protector.... | 70 | Bolt making furnaces..... | 454 | Bone cutter knives..... | 567 |
| Blower mfrs..... | 68 | Boiler brace mfrs..... | 70 | Bolt mfrs..... | 77 | Bone cutters..... | 301 |
| Blowers, acid..... | 68 | Boiler cleaners..... | 228 | Bolt nippers..... | 895 | Bone dealers..... | 83 |
| Blowers, boiler flue..... | 68 | Boiler compound feeders.... | 430 | Bolt pointing machines.... | 621 | Bone dryers (hoof or bone).. | 330 |
| Blowers, cycloidal..... | 68 | Boiler compounds..... | 70 | Bolt screwing machines.... | 621 | Bone handles..... | 500 |
| Blowers, cyclone..... | 68 | Boiler couplings..... | 290 | Bolt shearing machines.... | 621 | Bone-meat | 83 |
| Blowers, electric | 68 & 69 | Boiler coverings..... | 71 | Bolt threading dies..... | 311 | Bone or hoof dryers..... | 330 |
| Blowers, forge..... | 68 | Boiler dealers (see machinery dealers). | | Bolt threading machines.... | 621 | Bone & shell mills..... | 777 |
| Blowers, furnace..... | 68 | Boiler feed heaters..... | 518 | Bolt upsetting machines.... | 621 | Bookbinders' knives..... | 567 |
| Blowers, gas (see exhausters, gas). | | Boiler feed pumps..... | 914 | Bolt & nut machinery..... | 621 | Bookbinders' machinery.... | 621 |
| Blowers, hand..... | 68 | Boiler feed regulators (see regulators, feed water). | | Bolt & nut screwing machines | 621 | Bookbinders' wire..... | 1201 |
| Blowers, horn, foot..... | 538 | Boiler feed valves..... | 1165 | Bolt & nut & rivet mfrs.... | 77 | Book cases..... | 83 |
| Blowers, jet..... | 69 | Boiler feeders..... | 430 | Bolt & rod nuts, stove..... | 795 | Book covering machines.... | 621 |
| Blowers, organ..... | 69 | Boiler flanged headlights.... | 517 | Bolt & screw cases..... | 79 | Book lifts..... | 583 |
| Blowers, positive pressure.. | 69 | Boiler flue blowers..... | 68 | Bolt & shield, expansion.... | 79 | Book lifts, electric..... | 83 |
| Blowers, pressure..... | 69 | Boiler flue brushes..... | 111 | Bolters, lath (mills & bolt-ers) | 576 | Book sewing machines..... | 622 |
| Blowers, rotary pressure.... | 69 | Boiler, flue & tube cleaners | 71 | Bolters, universal..... | 79 | Book stacks, fireproof (see library shelving & fittings, metallic) | |
| Blowers & exhausters, electric | 69 | Boiler front cements..... | 214 | Bolting cloth..... | 79 | Book stitching machinery.. | 622 |
| Blowing engines..... | 412 | Boiler fronts & castings.... | 71 | Bolting machines..... | 621 | Book trucks..... | 1154 |
| Blown glass shades..... | 1034 | Boiler gaskets (see gaskets). | | Bolting saw machines..... | 621 | Books, architects' time record & accounts..... | 34 |
| Blown & pressed glass specialties | 480 | Boiler handles..... | 500 | Bolts, anchor..... | 79 | Books, plumbers' | 892 |
| Blue annealed steel sheets.. | 1074 | Boiler head flanging machines (see flanging machines). | | Bolts, barrel..... | 79 | Booms, derrick..... | 309 |
| Blue print cars & frames.... | 69 | Boiler heads, flanged..... | 71 | Bolts, belt or elevator..... | 79 | Boot machinery (see shoe machinery) | |
| Blue print filing cabinets.... | 69 | Boiler heads, pressed steel.. | 71 | Bolts, bicycle..... | 79 | Boot sewing machines..... | 1033 |
| Blue print intensifier & unfrying salts..... | 69 | Boiler injectors..... | 544 | Bolts, boiler patch..... | 79 | Booths, election, steel or wood | 336 |
| Blue printing machines.... | 69 | Boiler lugs..... | 71 | Bolts, barn door..... | 79 | Booths, telephone (see telephone cabinet work). | |
| Blue print paper mfrs..... | 69 | Boiler makers' clamps..... | 226 | Bolts, barrei..... | 79 | Boots, elevator..... | 83 |
| Blue print rolls..... | 954 | Boiler makers' drills..... | 323 | Bolts, belt or elevator..... | 79 | Boots, sewer connection.... | 83 |
| Blue print & brown print papers | 69 | Boiler makers' hammers.... | 498 | Bolts, boiler stay..... | 79 | Borax | 84 |
| Blue print & papers (black & blue prints, etc.)..... | 65 | Boiler makers' press & punching table combined. | 71 | Bolts, brass & copper..... | 79 | Borax powder for annealing, etc. | 84 |
| Blue stone (see stone producers, workers & drillers). | | Boiler makers' punches..... | 923 | Bolts, bridge & structural.. | 79 | Borders, slate register..... | 1052 |
| Blue vitriol | 69 | Boiler makers' punching machines | 657 | Bolts, bronze..... | 79 | Borders & friezes sheet metal | 1039 |
| Blueing machines..... | 1117 | Boiler makers' tools..... | 1142 | Bolts, cam..... | 179 | Borers, bung hole..... | 84 |
| Board, box..... | 84 | Boiler nipples..... | 792 | Bolts, car..... | 79 | Borers, tap..... | 84 |
| Board buffers..... | 114 | Boiler oil feeders..... | 430 | Bolts, carriage..... | 80 | Boring bars..... | 49 |
| Board lifters, steam..... | 69 | Boiler patch bolts..... | 79 | Bolts, collar..... | 80 | Boring bits, hub..... | 64 |
| Boards, Bristol, patent office printed | 817 | Boiler patch toggle bolts.... | 83 | Bolts, copper soldering.... | 80 | Boring machine augers..... | 38 |
| Boards, cloth..... | 1119 | Boiler picks..... | 819 | Bolts, countersunk..... | 80 | Boring machine for electric wiring | 622 |
| Boards, compass..... | 1120 | Boiler plate (see iron & steel boiler & tank plate mfrs.). | | Bolts, coupling..... | 80 | Boring machines..... | 622 |
| Boards, compo, waterproof surface | 241 | Boiler plate gauges (see gauges, rolling mill). | | Bolts, cross-arm..... | 80 | Boring machines, automobile cylinder | 619 |
| Boards, composite..... | 241 | Boiler plate shears..... | 1037 | Bolts, crown-bar..... | 80 | Boring machines, barrel.... | 620 |
| Boards, cribbage..... | 297 | Boiler punches..... | 923 | Bolts, door & window..... | 80 | Boring machines, brush.... | 624 |
| Boards, friction..... | 69 | Boiler purifying apparatus.. | 71 | Bolts, double end..... | 80 | Boring machines, car..... | 626 |
| Boards, glass cutting..... | 475 | Boiler rivets..... | 945 | Bolts, double expansion, hitching rings..... | 80 | Boring machines, car-box.. | 626 |
| Boards, hanger..... | 69 | Boiler room scales..... | 1019 | Bolts, drift..... | 80 | Boring machines, cylinder.. | 634 |
| Boards, hosiery..... | 1124 | Boiler saddles, cast steel.. | 71 | Bolts, elevator (belt or elevator) | 79 | Boring machines, hand..... | 622 |
| Boards, "Hugite," friction.. | 69 | Boiler saddles, pressed steel | 71 | Bolts, expansion..... | 81 | Boring machines, head..... | 642 |
| Boards, insulating press.... | 546 | Boiler scale preventing & water circulating system.. | 71 | Bolts, expansion eye..... | 81 | Boring machines, hub..... | 643 |
| Boards, leather..... | 582 | Boiler shell drills..... | 323 | Bolts, expansion, for concrete work..... | 81 | Boring machines, keyhole.. | 644 |
| | | Boiler shells, automobile.... | 72 | Bolts, expansion, single & double | 81 | Boring machines, locomotive connecting rod..... | 622 |
| | | Boiler stands, range..... | 72 | Bolts, expansion switch board | 81 | Boring machines, metal.... | 646 |
| | | Boiler stay bolts..... | 79 | | | Boring machines, pneumatic | 895 |
| | | Boiler stop valves..... | 1165 | | | | |
| | | Boiler taps..... | 1112 | | | | |

| | Page | | Page | | Page | | Page |
|---|------|---|------|---|------|---|-------------|
| Boring machines, porch column | 654 | Boxes, core, for foundry use | 84 | Brackets, staging | 88 | Brass railings (see bank & office railings) | |
| Boring machines, portable | 622 | Boxes, corner stone | 84 | Brackets, table | 88 | Brass rings | 943 |
| Boring machines, post | 654 | Boxes, coupling fused, for feeder cables | 85 | Brackets, telephone | 88 | Brass rivets | 945 |
| Boring machines, shaft | 663 | Boxes, curb | 84 | Brackets, wall (see power transmitting machinery) | 88 | Brass rods | 947 |
| Boring machines, wood | 674 | Boxes, district call | 84 | Brackets, window, clothes line | 1198 | Brass, rolled | 89 |
| Boring machines, wood, pneumatic | 900 | Boxes, drawing & roving | 1118 | Brackets, wood | 88 | Brass rolling mills | 951 |
| Boring mills | 777 | Boxes, express messenger | 84 | Brad drivers | 328 | Brass sawing machines | 623 |
| Boring tools | 1142 | Boxes, fare | 84 | Braid calendering machines | 1118 | Brass scrap | 1022 |
| Boring & drilling machines | 622 | Boxes, farriers' tool | 1142 | Braid rolling machines | 1118 | Brass screw wire | 1201 |
| Boring & drilling machines horizontal | 622 | Boxes, fire alarm signal | 85 | Braided banding | 1118 | Brass screws | 1027 |
| Boring & tapping machines, automatic | 622 | Boxes, floor outlet | 85 | Braided cordage | 279 | Brass, seamless tubing, plumbers' | 893 |
| Boring & turning mill chucks | 224 | Boxes, folding paper | 85 | Braided heddles | 1124 | Brass separators | 1031 |
| Boring & turning mills | 777 | Boxes, fuse | 85 | Braided hose | 538 | Brass sheet (copper & brass) | 278 |
| Boring & turning mills, vertical | 777 | Boxes, fused coupling, for feeder cables | 85 | Braiders, packing | 1118 | Brass shelis | 1040 |
| Bortz | 84 | Boxes, fused subway | 85 | Braiding machinery | 1118 | Brass signs | 1045 |
| Bosh plates | 830 | Boxes, graphite | 490 | Braids, cords & tapes | 1131 | Brass spelter solder | 1055 |
| Boshes, mechanical | 84 | Boxes, journal | 85 | Brake banding for automobiles | 88 | Brass spring joints | 564 |
| Bostwick system fireproofing | 440 | Boxes, junction | 85 | Brake beam clamps | 226 | Brass stair treads | 1063 |
| Bottle blowing machines | 622 | Boxes, lock | 86 | Brake beams | 88 | Brass stair treads, hard | 1063 |
| Bottle cases, steel | 193 | Boxes, lock corner | 86 | Brake chains | 217 | Brass stamping | 1064 |
| Bottle fillers, milk, etc. | 84 | Boxes, mailing, metal | 744 | Brake equipment for traction cars, power | 88 | Brass store fronts | 1092 |
| Bottle filling machines, automatic | 622 | Boxes, mailing, sample | 744 | Brake forks | 449 | Brass trays | 1151 |
| Bottle rack, hollow tile | 84 | Boxes, meter | 86 | Brake handles | 500 | Brass unions | 1162 |
| Bottle stoppers | 1092 | Boxes, mill | 1118 | Brake jaws | 88 | Brass work, theatre | 1133 |
| Bottle wrappers, corrugated | 84 | Boxes, miners' squib | 86 | Brake lever connecting rods | 947 | Brass & bronze, screw wire | 1201 |
| Bottlers' machinery & supplies | 622 | Boxes, mitre | 86 | Brake levers | 88 | Brass & bronze store fronts | 1092 |
| Bottlers' trucks | 1154 | Boxes, muffle | 86 | Brake pins | 821 | Brass & bronze wire cloth | 1203 |
| Bottles, steel | 84 | Boxes, packing | 799 | Brake shoe keys | 565 | Brass & copper angles, channels, etc. | 90 |
| Bottom swages | 1100 | Boxes, paper, metal edge | 86 | Brake shoe wheel truing | 88 | Brass & copper melting furnaces | 454 |
| Bottom dumping buckets | 112 | Boxes, patrol | 86 | Brake shoes | 88 | Brass & copper rolling mill machinery | 623 |
| Bottoms, brick converter | 273 | Boxes, plumbers' grease, rosin, etc. | 86 | Brake slack adjuster | 88 | Brass & copper rolling mills | 951 |
| Bottoms, copper | 278 | Boxes, quarry dump | 86 | Brake & electric car heating apparatus, magnetic | 88 | Brass & copper tubing | 1157 |
| Bourdon pressure gauges (see gauges, steam) | | Boxes, resistance (see rheostats) | | Brakes, air | 88 | Brass & copper washers | 1183 |
| Bow socket steel sheets | 1074 | Boxes, rural mail | 86 | Brakes, air, storage system | 89 | Brass & copper wire | 1201 |
| Bower barfed work | 84 | Boxes, saddle | 1129 | Brakes, automobile | 89 | Brass & copper wire cloth | 1203 |
| Bowles for centrifugal machines | 84 | Boxes, safe deposit | 86 | Brakes, car | 89 | Brasses, car & engine | 90 |
| Bowling alley builders | 84 | Boxes, safety deposit | 1001 | Brakes, coaster | 89 | Braziers' copper (see copper bottoms) | |
| Bowling alley supplies | 84 | Boxes, sand | 86 | Brakes, cornice | 280 | Brazing apparatus | 68 |
| Box anchor & timber caps | 84 | Boxes, seamless tin | 86 | Brakes, electric car | 89 | Brazing, cast iron | 194 |
| Box bands (shingle & box) | 46 | Boxes, self-opening scale | 86 | Brakes, electric crane | 89 | Brazing clamps, saw | 227 |
| Box board machines | 622 | Boxes, shaft | 86 | Brakes, electric motor | 89 | Brazing compound | 90 |
| Box board mfrs. | 84 | Boxes, shelf hardware | 86 | Brakes, flax | 89 | Brazing crucibles | 297 |
| Box board matching machines | 622 | Boxes, steam | 1118 | Brakes, locomotive | 89 | Brazing furnaces | 454 |
| Box board printing machines | 622 | Boxes, stoneware | 86 | Brakes, magnetic friction | 89 | Brazing machines, band saw | 623 |
| Box board scoring machines | 622 | Boxes, switch | 86 | Brakes, solenoid | 89 | Brazing tables, saw | 1016 & 1103 |
| Box board & shook fasteners | 84 | Boxes, switch, fused service | 86 | Brakes, vacuum | 89 | Brazing tanks | 1105 |
| Box car loaders | 586 | Boxes, take-up | 86 | Bran brushes | 111 | Brazing & flange unions | 1162 |
| Box chisels | 223 | Boxes, telephone (see wood-work, electrical) | | Brands, burning | 177 | Bread cutters | 301 |
| Box cleating machines (nailing and cleating) | 623 | Boxes, ticket cancelling | 86 | Brass altar rails & pulpits | 89 | Bread knives | 567 |
| Box corner cutter knives | 567 | Boxes, tin filling | 1118 | Brass angles, channels, etc. (brass & copper) | 90 | Bread mixers | 781 |
| Box corners | 280 | Boxes, tool, farriers' | 1142 | Brass balis | 45 | Bread ovens | 799 |
| Box dressing machines | 622 | Boxes, tote, sheet steel | 86 | Brass bands | 46 | Breakers, bale | 1117 |
| Box ending machines | 622 | Boxes, turned wood | 87 | Brass bedstead mfrs. | 55 | Breakers, casting or scrap | 90 |
| Box factory churns | 225 | Boxes, twine | 87 | Brass bellows | 56 | Breakers, circuit | 90 |
| Box fasteners | 429 | Boxes, valve | 87 | Brass bolts | 79 | Breakers, gyratory | 90 |
| Box hinges | 529 | Boxes, wall | 87 | Brass burr mfrs. (see rivets, brass & copper) | | Breakers, ice | 542 |
| Box hinges, fancy | 529 | Boxes, waste | 87 | Brass cap nuts | 794 | Breakers, magnetic re-set circuit | 90 |
| Box hinging machines | 622 | Boxes, water meter | 87 | Brass castings | 195 | Breakers, pneumatic staybolt | 898 |
| Box hooks (bale & box) | 536 | Boxes & frames, grindstone | 496 | Brass chains | 217 | Breakers, stone (see rock & ore crushers) | |
| Box hooks (cotton & box) | 536 | Brace head machines | 623 | Brass check blanks | 221 | Breaking machines, hard waste | 1118 |
| Box machinery (is indexed under the headings descriptive of its kind) | | Brace hooks & eyes | 537 | Brass, copper & bronze screws | 1027 | Breaking plows | 834 |
| Box machines, metal edge | 646 | Brace irons (corner & brace) | 561 | Brass cup & shoulder hooks | 536 | Breast chains (see chains, coil) | |
| Box makers' machinery | 622 | Brace mfrs., boiler | 70 | Brass door knobs | 317 | Breast dies | 311 |
| Box nail feeding machines | 623 | Brace rods | 947 | Brass fenders | 432 | Breast drills | 323 |
| Box nailing machines | 623 | Brace socket wrenches | 1212 | Brass ferrules | 432 | Breast drills, pneumatic | 895 |
| Box nails | 789 | Braces, bit | 64 | Brass finishers' lathes | 577 | Breasts, metallic | 1118 |
| Box openers | 797 | Braces, cross-arm | 87 | Brass fire sets | 441 | Breeching chains (see chains, coil) | |
| Box plate, steel fire | 830 | Braces, pole arm | 87 | Brass foundries | 449 | Brewers' enamels | 376 |
| Box presses | 903 | Braces, sewer | 1032 | Brass foundries' drying stoves | 1004 | Brewers' rice shoes | 943 |
| Box printing dies | 311 | Braces & fastenings, rail | 928 | Brass fountain blocks (brass & iron) | 67 | Brewers' shavings | 1036 |
| Box printing plates | 830 | Bracket, clothes line, "O. V. C." | 799 | Brass goods, plumbers' | 891 | Brewers' & malsters' machinery & supplies | 623 |
| Box scrapers | 1023 | Bracket drills | 323 | Brass grilles | 492 | Brewery architects | 34 |
| Box seals | 84 | Bracket hangers | 504 | Brass hammers | 498 | Briar pipe machinery | 623 |
| Box shocks | 1042 | Bracket machinery (insulator pin, bracket, etc.) | 644 | Brass hooks & eyes | 537 | Brick barrows | 48 |
| Box stands, annealing | 84 | Bracket rods | 947 | Brass ingots | 544 | Brick bat grinders | 493 |
| Box stapling machines | 623 | Brackets | 87 | Brass lined tubing | 1157 | Brick, carborundum (grains & brick) | 183 |
| Box strapping machines | 623 | Brackets, arc lamp | 87 | Brass machine screws | 1027 | Brick cars | 185 |
| Box straps | 84 | Brackets, cross-arms, etc., steel | 297 | Brass mails | 1126 | Brick chisels | 223 |
| Box trimming machines | 623 | Brackets, cross-arms, etc., wood | 297 | Brass meiting furnaces | 454 | Brick clamps | 226 |
| Box trucks | 1154 | Brackets, curtain pole | 87 | Brass mirror frames | 781 | Brick converter bottoms | 273 |
| Box wrenches | 1212 | Brackets, desk telephone | 87 | Brass mouldings | 787 | Brick conveyors | 273 |
| Box & shingle bands | 46 | Brackets, electric house | 87 | Brass nails | 789 | Brick cutting machines | 623 |
| Boxes, annealing | 84 | Brackets, flag-pole | 87 | Brass nuts | 794 | Brick cutting tables | 1103 |
| Boxes, axle grease | 84 | Brackets, folding scaffold | 87 | Brass pins | 821 | Brick dryers | 330 |
| Boxes, ballot, steel & wood | 45 | Brackets, folding, shelf | 87 | Brass pipe fittings | 441 | Brick edgers | 335 |
| Boxes, berry | 84 | Brackets, foot rail | 87 | Brass pipe railing fittings | 441 | Brick hammers (see hammers, masons') | |
| Boxes, cash | 84 | Brackets, hand rail | 87 | Brass pipe railings | 929 | Brick handler | 90 |
| Boxes, charging, open hearth | 84 | Brackets, house, electric | 87 | Brass plugs | 836 | Brick hods (mortar & brick) | 531 |
| | | Brackets, insulator (see cross-arms, brackets etc.) | | Brass pulpits (altar rails & pulpits) | 89 | Brick, insulating | 545 |
| | | Brackets, rafter | 88 | Brass pumps | 915 | Brick knives | 567 |
| | | Brackets, roof | 88 | Brass railing posts | 902 | | |
| | | Brackets, shelf | 88 | | | | |

| | Page | | Page | | Page | | Page |
|---|------|---|------|---|------|--|------|
| Brick machinery gears..... | 471 | Bridge spikes..... | 1057 | Bronze & iron window guards..... | 1199 | Buckle plates..... | 830 |
| Brick machinery, sand lime..... | 661 | Bridge timbers, creosoted..... | 109 | Bronzing liquids..... | 111 | Buckle tongue machines, automatic..... | 624 |
| Brick machinery & supplies..... | 623 | Bridge & structural bolts..... | 79 | Broom corn knives..... | 567 | Buckles, back band..... | 114 |
| Brick machines, cement..... | 627 | Bridges, coal handling..... | 109 | Broom corn planting machinery..... | 624 | Buckles, bale..... | 114 |
| Brick machines, sand..... | 661 | Bridges, concrete, reinforced..... | 109 | Broom handle machinery..... | 624 | Buckles, etched..... | 114 |
| Brick manteis..... | 749 | Bridges, ore handling..... | 109 | Broom machinery..... | 624 | Buckles, pipe..... | 822 |
| Brick mfrs., acid proof..... | 90 | Bridges, rolling lift..... | 109 | Broom or brush blocks..... | 66 | Buckles, wire..... | 114 |
| Brick mfrs., ashlar (see architectural faience). | | Bridges, sand handling..... | 109 | Brooms & brush wire..... | 1201 | Buckram machinery..... | 1118 |
| Brick mfrs., cement..... | 90 | Bridges, steel girder..... | 109 | Brooms, bamboo..... | 111 | Bucks, saw..... | 1016 |
| Brick mfrs., chemical..... | 90 | Bridges, traveling..... | 109 | Brooms, foundry..... | 111 | Buckshot & bullet molds..... | 782 |
| Brick mfrs., chrome..... | 90 | Bridges & galvanometers..... | 461 | Brooms, rattan..... | 111 | Buckwheat machinery..... | 624 |
| Brick mfrs., clinker..... | 90 | Bridging, metal, for joist & studding..... | 768 | Brooms, street sweeping..... | 111 | Buckwheat scourers (wheat & buckwheat)..... | 1022 |
| Brick mfrs., clinker paving..... | 90 | Bridle rings..... | 109 | Brooms, street & stable..... | 111 | Buddies or slime tables, revolving..... | 114 |
| Brick mfrs., common..... | 90 | Brine pipe cements..... | 213 | Brooms & brushes, track..... | 111 | Buffers, board..... | 114 |
| Brick mfrs., corduroy..... | 101 | Brine pumps..... | 915 | Brown print & blue print papers..... | 69 | Buffers, car..... | 114 |
| Brick mfrs., cupola (see cupola linings & blocks). | | Briquetting machinery..... | 624 | Brown prints & papers..... | 111 | Buffers, electric, automobile..... | 114 |
| Brick mfrs., Dutch clinker..... | 101 | Bristol boards, patent office printed..... | 817 | Brush bands..... | 46 | Buffers, rubber..... | 114 |
| Brick mfrs., enameled..... | 101 | Britannia metal castings..... | 199 | Brush boring machines..... | 624 | Buffers, seat back..... | 114 |
| Brick mfrs., fire..... | 101 | Britannia ware mfrs..... | 109 | Brush fibre..... | 433 | Buffing machines (knife polishing & buffing)..... | 644 |
| Brick mfrs., fire flashed..... | 103 | Broaching machines..... | 624 | Brush handle lathes..... | 577 | Buffing motors..... | 786 |
| Brick mfrs., front..... | 103 | Broaching presses..... | 903 | Brush holder springs..... | 1059 | Buffing & polishing lathes..... | 577 |
| Brick mfrs., furnace arch & roof..... | 106 | Broad looms..... | 1125 | Brush holders..... | 534 | Buffing & polishing wheels..... | 1192 |
| Brick mfrs., glazed..... | 106 | Broilers..... | 109 | Brush machinery & tools..... | 624 | Buggies, buhr-stones..... | 114 |
| Brick mfrs., granite pressed..... | 106 | Broilers, electric..... | 109 | Brush nailing machines..... | 624 | Buggies, charging..... | 114 |
| Brick mfrs., hollow..... | 106 | Broken stone..... | 109 | Brush wire..... | 1201 | Buggies, coal & coke..... | 114 |
| Brick mfrs., magnesite..... | 106 | Broken tap extractors..... | 428 | Brushes, boiler flue..... | 111 | Buggies for structural steel, etc..... | 114 |
| Brick mfrs., magnesite..... | 106 | Bromley's patent fireproof floors..... | 439 | Brushes, bran & shorts..... | 111 | Buggy-bow steel sheets..... | 1074 |
| Brick mfrs., mottled..... | 106 | Bronze alloys, phosphor..... | 9 | Brushes, copper..... | 111 | Buhr-stone buggies..... | 114 |
| Brick mfrs., ornamental (see brick mfrs., front). | | Bronze anodes..... | 10 | Brushes, dynamo & motor..... | 111 | Buhr-stone mills..... | 777 |
| Brick mfrs., Pompeian..... | 106 | Bronze, architectural, etc..... | 109 | Brushes, floor polishing..... | 111 | Builders..... | 114 |
| Brick mfrs., porous (see fire-proofing porous terra cotta). | | Bronze, architectural, Henry Bonnard..... | 110 | Brushes, flue..... | 111 | Builders, asphalt plant..... | 37 |
| Brick mfrs., rock faced..... | 107 | Bronze, architectural, wrought..... | 110 | Brushes, foundry, machine & factory..... | 111 | Builders, automobile..... | 38 |
| Brick mfrs., sand lime..... | 107 | Bronze bolts..... | 79 | Brushes, graphite..... | 111 | Builders, barge..... | 47 |
| Brick mfrs., silica..... | 107 | Bronze, brass & copper mouldings..... | 787 | Brushes, hot water heater..... | 112 | Builders, bowling alley..... | 84 |
| Brick mfrs., taic fire..... | 107 | Bronze, brass & copper screws..... | 1027 | Brushes, marking..... | 112 | Builders, church organ..... | 225 |
| Brick mfrs., vitrified paving..... | 107 | Bronze bushings..... | 177 | Brushes, mill..... | 1118 | Builders, contracting..... | 114 |
| Brick mfrs., white..... | 108 | Bronze caps..... | 181 | Brushes, paint, varnish, etc..... | 112 | Builders, cotton mill..... | 175 |
| Brick molds..... | 782 | Bronze castings..... | 199 | Brushes, platers', polishers', etc..... | 112 | Builders, dock..... | 314 |
| Brick mould sanding machines..... | 624 | Bronze castings, lumen..... | 203 | Brushes, railroad..... | 112 | Builders' electric hoists..... | 532 |
| Brick nozzles (quarry & brick)..... | 793 | Bronze castings, manganese..... | 203 | Brushes, sheet metal..... | 112 | Builders, flour mill..... | 445 |
| Brick oven builders..... | 799 | Bronze castings, Parson's..... | 203 | Brushes, spiral twist..... | 112 | Builders, glass house furnace..... | 475 |
| Brick paints..... | 810 | Bronze castings, phosphor..... | 203 | Brushes, steel wire..... | 112 | Builders, grain elevator..... | 484 |
| Brick pallets..... | 815 | Bronze castings, phosphor..... | 203 | Brushes, stencil..... | 112 | Builders, granite mausoleum & vault..... | 485 |
| Brick preservative (see brick & stone preservative). | | Bronze castings, phosphor..... | 203 | Brushes, track..... | 111 | Builders, greenhouse..... | 491 |
| Brick press machines..... | 624 | Bronze door knobs..... | 317 | Brushes, whitewash..... | 112 | Builders, house organ..... | 541 |
| Brick press machines, sand lime..... | 624 | Bronze doors..... | 110 | Brushes, window..... | 112 | Builders, launch..... | 785 |
| Brick, pumice, purified..... | 913 | Bronze electro plating..... | 366 | Brushes, woven wire..... | 112 | Builders, light house..... | 583 |
| Brick, rheostat..... | 943 | Bronze elevator doors..... | 367 | Brushing machines, cloth..... | 1119 | Builders, malt & ice house..... | 745 |
| Brick sanding machines..... | 624 | Bronze elevator fittings..... | 441 | Brushing & shearing machine combined..... | 1129 | Builders, marine railway..... | 752 |
| Brick, steel..... | 1071 | Bronze forgings..... | 446 | Buck staves, rail..... | 928 | Builders, motor boat..... | 785 |
| Brick, stove lining..... | 109 | Bronze forgings, manganese..... | 449 | Buck elevators..... | 369 | Builders, oven, brick & portable..... | 799 |
| Brick testing machines..... | 669 | Bronze foundries..... | 110 | Bucket hoists, concrete..... | 532 | Builders, river scows..... | 1022 |
| Brick trucks..... | 1154 | Bronze gaskets (nickel & bronze)..... | 465 | Bucket hoists, steel..... | 1043 | Builders, scaffold..... | 1019 |
| Brick wall ventilators..... | 1178 | Bronze gates..... | 466 | Buckets, asphalt measuring..... | 112 | Builders, ship..... | 1041 |
| Brick workers' dies..... | 311 | Bronze grilles (brass & bronze)..... | 492 | Buckets, automatic..... | 112 | Builders, smoke house..... | 1053 |
| Brick & cement waterproofings..... | 109 | Bronze ingots..... | 544 | Buckets, bottom dumping..... | 112 | Builders, steel bridge..... | 109 |
| Brick & clay workers' dies..... | 311 | Bronze ingots, "Parson's" manganese..... | 544 | Buckets, clam shell..... | 112 | Builders, stone bridge..... | 109 |
| Brick & drain tile cutters..... | 301 | Bronze ingots, phosphor..... | 544 | Buckets, coal, automatic steam..... | 233 | Builders, yacht..... | 785 |
| Brick & stone preservative..... | 109 | Bronze lamps..... | 110 | Buckets, coal & ore..... | 113 | Builders & masons..... | 752 |
| Bricklayers (see builders, contracting). | | Bronze lamps, artistic wrought..... | 572 | Buckets, collapsible..... | 114 | Builders' cast iron work..... | 175 |
| Bricklayers' fine pins..... | 821 | Bronze lanterns (artistic wrought & bronze)..... | 575 | Buckets, concrete, contractors'..... | 113 | Builders' castings..... | 200 |
| Bricks, alundum (grains & brick)..... | 9 | Bronze letters for building fronts..... | 110 | Buckets, drag..... | 113 | Builders' contract blanks (architects' & builders')..... | 249 |
| Bricks, rubbing..... | 1000 | Bronze, manganese (see castings, manganese bronze). | | Buckets, dredging & excavating..... | 113 | Builders' hardware (see hardware mfrs.). | |
| Bridge builders' forges..... | 446 | Bronze, manganese, Parsons'..... | 745 | Buckets, dumping, contractors'..... | 271 | Builders' hoists, electric..... | 532 |
| Bridge builders, lift..... | 109 | Bronze metal bearings..... | 53 | Buckets, elevator..... | 113 | Builders' iron work..... | 175 |
| Bridge builders' re-enforced concrete..... | 109 | Bronze monuments & statuary..... | 110 | Buckets, fibre..... | 113 | Builders' materials (masons & builders)..... | 753 |
| Bridge builders, steel..... | 109 | Bronze mouldings..... | 787 | Buckets, fire..... | 113 | Builders' materials & specialties, mfrs. agents..... | 175 |
| Bridge builders, stone..... | 109 | Bronze, phosphor..... | 819 | Buckets, foundry..... | 113 | Builders' mill work (see interior hardwood work). | |
| Bridge cables, suspension..... | 178 | Bronze powder..... | 110 | Buckets, gold dredging..... | 113 | Builders' rustless hardware..... | 505 |
| Bridge caissons..... | 109 | Bronze radiators..... | 110 | Buckets, grab..... | 113 | Builders' specifications (architects & builders)..... | 1057 |
| Bridge castings..... | 199 | Bronze, radiator..... | 110 | Buckets, grease..... | 113 | Builders' wagons..... | 1181 |
| Bridge clamps..... | 228 | Bronze railings (see bronze, architectural). | | Buckets, hoisting..... | 113 | Builders' wheelbarrow hoists (contractors' & builders')..... | 532 |
| Bridge designing engineers..... | 379 | Bronze, screw wire..... | 1201 | Buckets, hoisting & dumping (see tubs, self-dumping). | | Building block machinery, hollow..... | 642 |
| Bridge erecting engines..... | 412 | Bronze screws..... | 1027 | Buckets, orange peel..... | 113 | Building blocks, concrete hollow..... | 67 |
| Bridge foundations..... | 109 | Bronze signs..... | 1045 | Buckets, pump..... | 114 | Building blocks, hollow..... | 67 |
| Bridge gang cars..... | 185 | Bronze size..... | 110 | Buckets, salt..... | 114 | Building cleaning, compressed air..... | 175 |
| Bridge gates..... | 466 | Bronze statutory..... | 110 | Buckets, sand handling..... | 114 | Building contractors..... | 251 |
| Bridge guards, railroad..... | 498 | Bronze store fronts (brass & bronze)..... | 1092 | Buckets, sap..... | 114 | Building directories, changeable..... | 175 |
| Bridge jacks..... | 562 | Bronze tablets, etc..... | 110 | Buckets, scoop..... | 114 | Building frames, steel (see steel structural shapes). | |
| Bridge masonry..... | 109 | Bronze Tobin metal..... | 111 | Buckets, scraper..... | 114 | Building lumber, asbestos..... | 36 |
| Bridge operating machinery..... | 624 | Bronze tubing..... | 1157 | Buckets, self-dumping..... | 114 | Building materials, fireproof..... | 439 |
| Bridge paints..... | 810 | Bronze windows & sash, air-tight..... | 1200 | Buckets, sewer..... | 114 | Building materials, for export..... | 766 |
| Bridge pins..... | 109 | Bronze wire..... | 1201 | Buckets, slag..... | 114 | Building materials, second-hand..... | 175 |
| Bridge plate (see plate, steel bridge). | | Bronze wire cloth (brass & bronze)..... | 1203 | Buckets, turnover..... | 114 | | |
| Bridge railings..... | 109 | Bronze, wrought..... | 1215 | Buckets, well..... | 114 | | |
| Bridge, rails, steel..... | 109 | Bronze & brass door knobs..... | 317 | Buckets & pails, collapsible..... | 114 | | |
| Bridge reamers..... | 937 | Bronze & copper anodes..... | 10 | Buckets & pails, wood..... | 805 | | |
| Bridge rivets..... | 943 | Bronze & iron gates..... | 466 | Buckets & skips, ore & water..... | 798 | | |
| Bridge rods..... | 947 | | | Buckle machinery..... | 624 | | |
| | | | | Buckle machines, automatic..... | 624 | | |

| | Page | | Page | | Page | | Page |
|--|------|---|------|--|------|---|------|
| Building movers' screws..... | 1027 | Burrs, brass (see rivets, brass)..... | | Cable hangers..... | 503 | Can capping machines..... | 625 |
| Building papers..... | 175 | Bush hammers..... | 498 | Cable haulage machinery..... | 625 | Can cleaning & washing machines..... | 625 |
| Building sheathing, asbestos..... | 175 | Bush hooks..... | 536 | Cable, ignition..... | 178 | Can filling machines..... | 625 |
| Building sheathing, felt..... | 175 | Bushed chains, steel..... | 220 | Cable irons..... | 561 | Can heading machines..... | 625 |
| Building sheathing, mineral wool (see mineral wool)..... | | Bushing & screening plants, coal & coke..... | 233 | Cable polishing machines (wire & cable polishing)..... | 674 | Can lacquering machines..... | 625 |
| Building sheathing quilt, asbestos..... | 175 | Bushings..... | 177 | Cable racks..... | 927 | Can lining machines..... | 625 |
| Building sheathing quilt, Cabot's..... | 176 | Bushings, "Bard," adjustable pipe..... | 177 | Cable railways..... | 178 | Can makers' dies..... | 311 |
| Building ventilation (see ventilating apparatus)..... | | Bushings, bronze..... | 177 | Cable reel winding gears..... | 471 | Can makers' machinery..... | 625 |
| Bulbs, incandescent lamp..... | 176 | Bushings, conduit..... | 178 | Cable terminals, telephone..... | 1115 | Can mfrs., paper..... | 816 |
| Bull chains, Howe..... | 219 | Bushings, hard fibre (see fibre mfrs., hard)..... | | Cable wire..... | 1201 | Can openers..... | 179 |
| Bull tongs..... | 1141 | Bushings, pipe..... | 178 | Cables, aerial (see cableways, wire rope)..... | | Can polishing machines..... | 625 |
| Bull wheels..... | 1192 | Bushings, porcelain..... | 178 | Cables, copper wire..... | 1201 | Can scoring machines..... | 625 |
| Bulldozer or bending machines..... | 624 | Bushings, rawhide (see gears, rawhide)..... | | Cables, fence post reinforcement..... | 431 | Can seating machines..... | 625 |
| Bulletins for office & loft buildings, changeable..... | 176 | Bushings, roller bearing..... | 178 | Cables, lead covered..... | 178 | Can slitting machines..... | 625 |
| Bullet lubricating & sizing presses..... | 903 | Bushings, socket, rubber..... | 1054 | Cables, rubber covered (see wire, rubber covered)..... | | Can stuffing machines, meat..... | 646 |
| Bullet moulds..... | 782 | Bushings, trolley wheel..... | 178 | Cables, submarine..... | 178 | Can tapping machines..... | 625 |
| Bullion copper ores (matte & bullion)..... | 278 | Butchers' block pins..... | 821 | Cables, suspension bridge..... | 178 | Can testing machines..... | 669 |
| Bullion furnaces (assayers' & bullion)..... | 454 | Butchers' blocks..... | 66 | Cables, underground..... | 178 | Can washing machines (can cleaning, etc.)..... | 625 |
| Bulls' eyes..... | 428 | Butchers' block scrapers..... | 1023 | Cables, weatherproof (see wire, weatherproof)..... | | Can wrapping machines..... | 625 |
| Bumper plates..... | 830 | Butchers' cleavers, etc..... | 229 | Cables, wire (see wire rope & cables)..... | | Can & bag carriers, street sweeping..... | 184 |
| Bumpers, automobile..... | 176 | Butchers' knives..... | 567 | Cableways, erecting..... | 426 | Canceled machines..... | 625 |
| Bumpers, door..... | 315 | Butchers' machinery & supplies..... | 624 | Cableways, logging..... | 592 | Candle holders..... | 534 |
| Bumpers & cushions, rubber..... | 999 | Butchers' punches..... | 923 | Cableways, sewer & trench excavating..... | 178 | Candle lubricators..... | 594 |
| Bumping posts, car..... | 901 | Butchers' saw coils..... | 1016 | Cableways, wire rope..... | 178 | Candle machinery..... | 626 |
| Bumping presses..... | 903 | Butchers' saw punching machines..... | 625 | Cabling & armoring machines..... | 625 | Candles, electric..... | 179 |
| Bunchers, asparagus..... | 176 | Butchers' saws, etc..... | 1017 | Caboose stoves..... | 1094 | Candles, mining..... | 179 |
| Bung augers..... | 38 | Butchers' skewer machinery..... | 625 | Cabot's building sheathing quilt..... | 176 | Candles, plumbers'..... | 179 |
| Bung mfrs. (see plugs; wood)..... | | Butchers' steels..... | 1079 | Cabs or cars, elevator..... | 366 | Candlesticks, colonial..... | 180 |
| Bung picks..... | 819 | Butchers' tools..... | 1143 | Cadgers, mining..... | 178 | Candy floss machinery..... | 626 |
| Bung starters..... | 176 | Butt drilling & milling machines..... | 625 | Cadmium..... | 178 | Candy machinery (see confectioners' machinery)..... | |
| Bung tins for barrels..... | 176 | Butt hinges..... | 529 | Cafe table bases..... | 50 | Candy vending machines (see vending machines)..... | |
| Bunghole borers..... | 84 | Butt hinges, spring..... | 530 | Cages, mine..... | 179 | Cane cars (see cars, plantation)..... | |
| Bunks, metallic..... | 63 | Butt hinges, wrought steel (see hinges, spring, wrought steel)..... | | Caisson cylinders..... | 304 | Cane, chair (see rattan & reed works)..... | |
| Bunting mfrs..... | 176 | Butt machinery (hinge & butt)..... | 642 | Caisson foundations..... | 179 | Cane driers, continuous..... | 1098 |
| Buoy ballast balls..... | 45 | Butter dish machinery..... | 625 | Caissons, bridge..... | 109 | Cane knives..... | 567 |
| Buoys, gas..... | 176 | Butter printing & cutting machinery..... | 625 | Caissons, cast iron..... | 179 | Cane mill gearing..... | 470 |
| Buoys, life (see life preservers)..... | | Butter trowels..... | 1153 | Caissons, pneumatic, for bridge piers..... | 899 | Cane seat chair machinery..... | 626 |
| Burglar alarms..... | 8 | Butter tryers..... | 1156 | Caissons, sheet iron..... | 179 | Cane sugar machinery..... | 1097 |
| Burglar notifiers..... | 792 | Butter workers (see dairy apparatus & supplies)..... | | Cake turners..... | 1159 | Canners' machinery (cabbage)..... | 625 |
| Burglar proof safes..... | 1001 | Butterfly valves..... | 1165 | Calcined magnesite..... | 744 | Canners' machinery (oyster)..... | 650 |
| Burial cases & vaults, slate..... | 176 | Button hole cutters..... | 301 | Calcined plaster mfrs..... | 827 | Canners' machinery (tomato)..... | 670 |
| Burial vaults & grave covers, stone..... | 176 | Button hole punches..... | 923 | Calcining & dryer apparatus..... | 330 | Canners' paste..... | 817 |
| Burlaps..... | 176 | Button hole sewing machines..... | 1033 | Calcium carbide..... | 179 | Canners' pulp making machinery..... | 657 |
| Burling irons..... | 1118 | Button machinery..... | 625 | Calcium chloride..... | 224 | Canning coppers, Tillery..... | 279 |
| Burners, acetylene gas..... | 176 | Button sewing machines..... | 625 | Calcium light cylinders..... | 304 | Canning factory trucks..... | 1154 |
| Burners, automobile, gasoline..... | 177 | Buttoners, glove & shoe..... | 178 | Calcium light tanks..... | 1105 | Canning house sundries..... | 180 |
| Burners, automobile, kerosene..... | 177 | Buttonhole machines..... | 1118 | Calculating gauges, wireman's..... | 470 | Canning machinery..... | 626 |
| Burners, brazing & blast..... | 176 | Buttons, push..... | 925 | Calculating machines..... | 625 | Cannon, yacht..... | 180 |
| Burners, coal dust..... | 176 | Butts, ball bearing (see hinges, ball bearing butt)..... | | Calculating machines, leather..... | 645 | Canopies (see marquees)..... | |
| Burners, electric gas lighting..... | 176 | Butts, brass (see hinges, butt, etc.)..... | | Calculagraphs..... | 179 | Canopy cars..... | 185 |
| Burners, fuel gas..... | 176 | Buzz planers..... | 825 | Caldron kettles..... | 565 | Canopy switches..... | 1101 |
| Burners, fuel oil..... | 176 | Byrkit-Hall wood lath..... | 576 | Calender roll grinders..... | 493 | Cans, ash & garbage..... | 180 |
| Burners, furnace gas..... | 176 | | | Calendering machines..... | 625 | Cans, cotton..... | 1118 |
| Burners, gas, automatic..... | 176 | | | Calendering machines, cloth..... | 1119 | Cans, dye house..... | 1118 |
| Burners, gas, blast furnace..... | 176 | | | Calf weaners..... | 1189 | Cans, garbage, seamless pressed steel..... | 461 |
| Burners, gas, self-lighting..... | 177 | | | Calico printers' machinery..... | 1118 | Cans, gasoline..... | 180 |
| Burners, gasoline..... | 177 | | | California redwood shingles..... | 1040 | Cans, ice cream..... | 180 |
| Burners, gasoline, automobile..... | 177 | | | Caliper gauge blanks..... | 66 | Cans, ice, for artificial ice..... | 542 |
| Burners, gasoline engine..... | 177 | | | Caliper gauges..... | 468 | Cans, jacket..... | 180 |
| Burners, gasoline gas..... | 177 | | | Caliper rules..... | 1000 | Cans, milk..... | 180 |
| Burners, hydro carbon..... | 177 | | | Caliper squares..... | 1062 | Cans, mill..... | 1118 |
| Burners, incandescent gas..... | 177 | | | Calipering machines..... | 625 | Cans, miners' oil..... | 180 |
| Burners, jappanning or baking..... | 177 | | | Calipers..... | 179 | Cans, oil..... | 180 |
| Burners, kerosene, automobile..... | 177 | | | Calipers, beam..... | 179 | Cans, oil, glass..... | 793 |
| Burners, kerosene oil..... | 177 | | | Calipers, log..... | 179 | Cans, packers'..... | 180 |
| Burners, lamp..... | 177 | | | Calipers, micrometer (see micrometers)..... | | Cans, paint & varnish..... | 180 |
| Burners, natural gas..... | 177 | | | Calipers, vernier..... | 179 | Cans, paper..... | 816 |
| Burners, natural gas fuel..... | 177 | | | Calipers, winged..... | 179 | Cans, roving..... | 1129 |
| Burners, oil, for furnaces, etc..... | 795 | | | Calking chisels..... | 223 | Cans, self-sealing..... | 180 |
| Burners, paint..... | 805 | | | Calking cotton..... | 289 | Cans, tin..... | 180 |
| Burners, pyrites & sulphur..... | 177 | | | Calking hammers, pneumatic..... | 895 | Cans, veneer cotton..... | 1118 |
| Burners, refuse..... | 177 | | | Calking irons..... | 561 | Cans, waste..... | 180 |
| Burners, tar..... | 177 | | | Calking mallets..... | 744 | Cant-dogs..... | 181 |
| Burning brands..... | 177 | | | Calking tools..... | 1143 | Cant flippers, steam..... | 181 |
| Burning-off scrapers..... | 1023 | | | Calks, horse shoe (see toe calks, steel)..... | | Canthook & peavy handles..... | 501 |
| Burning outfits, lead..... | 581 | | | Call boxes, district..... | 84 | Canthooks..... | 181 |
| Burnishing machines..... | 624 | | | Calls, carriage, electric..... | 184 | Cantilever cranes..... | 292 |
| Burr blades..... | 1118 | | | Calorimeters..... | 179 | Canting machines..... | 626 |
| Burr pickers..... | 1127 | | | Cam bolts..... | 179 | Canvas belting mfrs., rawhide center..... | 61 |
| Burring machines..... | 1118 | | | Cam cutting machines..... | 625 | Canvas lined rattan seat covering..... | 936 |
| Burring machines, nut..... | 649 | | | Cam presses..... | 903 | Canvas stitched belting mfrs..... | 61 |
| Burring machines, wool..... | 1133 | | | Camel's hair belting mfrs..... | 61 | Canvas & cotton duck..... | 289 |
| Burring reamers..... | 937 | | | Camp cooking outfits & stoves..... | 179 | Cap screws..... | 1027 |
| Burring tools..... | 1142 | | | Camp stools & chairs..... | 179 | Cape chisels..... | 223 |
| | | | | Camping & lumbermen's tents..... | 1115 | Capitals, carved wood..... | 181 |
| | | | | Cams..... | 179 | Capitals, composition..... | 181 |
| | | | | Can beading machines..... | 625 | Capitals, plaster (see ornaments, plastic)..... | |
| | | | | Can body forming machines..... | 625 | Capping machines..... | 626 |
| | | | | Can boxing machines..... | 625 | Caps, blasting..... | 66 |

| | Page | | Page | | Page | | Page |
|-----------------------------------|------|----------------------------------|------|-----------------------------------|------|-----------------------------------|------|
| Caps, hitching post..... | 181 | Car ventilators..... | 1178 | Cards, steel wire stripper..... | 1119 | Cars, dumping..... | 186 |
| Caps, hub..... | 181 | Car vestibules..... | 1178 | Cards, woolen..... | 1119 | Cars, dumping, railroad..... | 187 |
| Caps, joist anchor & timber..... | 564 | Car wheel annealing tanks..... | 1105 | Cards, worsted..... | 1119 | Cars, flat..... | 187 |
| Caps, metal, for glassware..... | 181 | Car wheel boring machines..... | 626 | Cargo hoisting blocks, iron | | Cars, foundry..... | 187 |
| Caps, miners'..... | 181 | Car wheel boring mills..... | 778 | & wood..... | 67 | Cars, freight..... | 188 |
| Caps, pipe..... | 181 | Car wheel centers..... | 216 | Carousels, organs, etc..... | 183 | Cars, gas coke..... | 188 |
| Caps, post..... | 901 | Car wheel chucks..... | 224 | Carpenters' adze mfrs. (see | | Cars, gasoline, railroad..... | 188 |
| Caps, railway (tips or caps)..... | 1140 | Car wheel cleaning ma- | | adze mfrs.). | | Cars, gondola..... | 188 |
| Caps, screw..... | 181 | chines..... | 626 | Carpenters' augers..... | 38 | Cars, hand dump..... | 188 |
| Caps, ventilating..... | 181 | Car wheel flasks (see flasks, | | Carpenters' brackets, adjust- | | Cars, hand & push..... | 188 |
| Capstans..... | 181 | moulders'). | | able appliance for..... | 2 | Cars, hopper..... | 188 |
| Capsule machinery..... | 626 | Car wheel foundry plants..... | 182 | Carpenters' chisels..... | 223 | Cars, hot metal or slag..... | 188 |
| Capsule molds..... | 782 | Car wheel gauges, circum- | | Carpenters' clamps..... | 226 | Cars, industrial..... | 189 |
| Car axles..... | 43 | ference..... | 468 | Carpenters' gauges..... | 468 | Cars, ingot..... | 189 |
| Car ball or roller bearing | | Car wheel grinders..... | 493 | Carpenters' prying bars..... | 49 | Cars, inspection..... | 189 |
| wheels..... | 1193 | Car wheel lathes..... | 577 | Carpenters & builders..... | 183 | Cars, ladle..... | 189 |
| Car bells & gongs..... | 57 | Car wheel molding machines..... | 626 | Carpenters' & joiners' ham- | | Cars, liquid cinder..... | 189 |
| Car bits..... | 64 | Car wheel presses..... | 903 | mers..... | 498 | Cars, logging..... | 189 |
| Car bolts..... | 79 | Car wheel testing machines..... | 669 | Carpet cleaners..... | 229 | Cars, mine..... | 189 |
| Car boring machines..... | 626 | Car wheels..... | 1192 | Carpet cleaning machinery..... | 626 | Cars, motor, gasoline, elec- | |
| Car box boring machines..... | 626 | Car wheels, bail or roller | | Carpet cutters..... | 1121 | tric..... | 190 |
| Car box grinding machines..... | 626 | bearing..... | 1193 | Carpet dryers..... | 1121 | Cars, motor inspection..... | 190 |
| Car box washers (see wash- | | Car wheels, steel tired..... | 1195 | Carpet finishing machines..... | 1122 | Cars, ore..... | 190 |
| ers, fibre, etc.). | | Car window fixtures..... | 182 | Carpet fraying machines..... | 640 | Cars, passenger..... | 190 |
| Car brake chains (see | | Car window rubbers..... | 182 | Carpet knives..... | 567 | Cars, pipe..... | 191 |
| chains, brake). | | Car window shades (see car | | Carpet knobs..... | 570 | Cars, pit..... | 191 |
| Car brakes..... | 89 | curtains & materials). | | Carpet linings..... | 184 | Cars, plantation..... | 191 |
| Car brasses..... | 90 | Car wiring cleats..... | 229 | Carpet loom knives..... | 568 | Cars, plate & sheet mill..... | 191 |
| Car buffers..... | 114 | Car & carriage spring ma- | | Carpet looms..... | 1125 | Cars, pole road..... | 191 |
| Car builders (see cars, va- | | chinery..... | 626 | Carpet machinery..... | 1119 | Cars, quarry..... | 191 |
| rious kinds). | | Car & driving wheel lathes..... | 577 | Carpet nails..... | 789 | Cars, refrigerator..... | 191 |
| Car builders' earthenware..... | 181 | Car & switch lock mfrs..... | 587 | Carpet rolling machines..... | 1119 | Cars, rotary tunnel..... | 191 |
| Car builders' wrenches..... | 1212 | Carbanese..... | 182 | Carpet rug machinery..... | 1119 | Cars, second-hand..... | 191 |
| Car bumping posts..... | 901 | Carbide, calcium..... | 179 | Carpet sewing machines..... | 1033 | Cars, shop..... | 191 |
| Car ceiling transfer orna- | | Carbide containers..... | 182 | Carpet stretchers..... | 1096 | Cars, skip..... | 191 |
| ments..... | 1149 | Carbide mfrs..... | 182 | Carpet sweepers..... | 1100 | Cars, slag..... | 191 |
| Car ceilings..... | 181 | Carbolic acid..... | 1 | Carpet twisters..... | 1132 | Cars, spreader..... | 191 |
| Car cleaning, vacuum system..... | 181 | Carbon black mfrs..... | 182 | Carpets, cork..... | 280 | Cars, sprinkling, street rail- | |
| Car cleansing powders, etc..... | 181 | Carbon castings..... | 200 | Carpets, wood..... | 1209 | way..... | 191 |
| Car couplers..... | 289 | Carbon cutting machines..... | 626 | Carrara glass..... | 474 | Cars, steam shovel..... | 191 |
| Car curtains & materials..... | 181 | Carbon cylinders..... | 304 | Carrara marble..... | 750 | Cars, steel..... | 191 |
| Car diaphragms..... | 310 | Carbon holders..... | 534 | Carriage air cushions, saw | | Cars, steel mining or dump..... | 191 |
| Car door fasteners, freight..... | 430 | Carbon machinery..... | 626 | mill..... | 7 | Cars, stone..... | 192 |
| Car door hangers..... | 317 | Carbon mfrs..... | 183 | Carriage axles..... | 184 | Cars, street & electric..... | 192 |
| Car doors & fittings..... | 181 | Carbon paper machinery..... | 626 | Carriage axles, children's..... | 43 | Cars, sugar cane (see cars, | |
| Car dumpers..... | 181 | Carbon paper mfrs..... | 816 | Carriage bolts..... | 79 | plantation). | |
| Car fare registers..... | 940 | Carbon papers, typewriters'..... | 1161 | Carriage builders' machinery..... | 627 | Cars, tank..... | 192 |
| Car fender chains..... | 217 | Carbon tongs..... | 1141 | Carriage calls, electric..... | 184 | Cars, tie..... | 192 |
| Car fenders..... | 181 | Carbonate of barytes..... | 182 | Carriage elevators..... | 369 | Cars, track laying..... | 192 |
| Car fender springs..... | 1059 | Carbonating machinery..... | 626 | Carriage hardware mfrs..... | 507 | Cars, traction engine..... | 192 |
| Car gates & guards..... | 182 | Carbonation or saturation | | Carriage heaters (automobile | | Cars, train..... | 192 |
| Car gongs & bells..... | 57 | plants..... | 1097 | & carriage)..... | 518 | Cars, tram..... | 192 |
| Car hardware mfrs..... | 507 | Carbonic acid gas cylinders..... | 304 | Carriage jacks (see jacks, | | Cars, transfer..... | 192 |
| Car hauls..... | 182 | Carbonizers..... | 1118 | wagon). | | Cars, trolley repair..... | 192 |
| Car heater drums..... | 328 | Carbons, arc light..... | 183 | Carriage lamps..... | 573 | Cars, tunnel..... | 192 |
| Car heater fittings..... | 441 | Carbons, battery..... | 183 | Carriage spring machinery..... | 626 | Cars, velocipede..... | 192 |
| Car heaters..... | 518 | Carbons (black diamonds) & | | Carriage springs..... | 1059 | Cars, velocipede, gasoline | |
| Car heaters, electric..... | 519 | bortz..... | 183 | Carriage top dressing, etc..... | 322 | motor..... | 192 |
| Car jacks..... | 562 | Carbons, search light..... | 183 | Carriage trimmings..... | 184 | Cars, warehouse (see trucks). | |
| Car journal bearings (see | | Carbons & rods, resistance..... | 942 | Carriage trimmings, plated..... | 184 | wrecking (see cranes, | |
| bearings, journal). | | Carborundum grains & brick..... | 183 | Carriage varnishes (railway | | wrecking). | |
| Car journal coolers..... | 182 | Carborundum stair treads..... | 1063 | & carriage)..... | 1174 | Carton Pierre decorations..... | 305 |
| Car journal lubricators..... | 594 | Carbureters..... | 183 | Carriage wrenches..... | 1212 | Cartridge machinery..... | 627 |
| Car lamps..... | 572 | Card attachments..... | 1118 | Carriages, cable..... | 178 | Cartridge making presses..... | 903 |
| Car lighting apparatus..... | 182 | Card beveling machines, pho- | | Carriages, children's..... | 184 | Cartridge mfrs..... | 192 |
| Car lighting apparatus, Bliss | | tograph..... | 653 | Carriages, gun..... | 184 | Cartridge shell dryers..... | 330 |
| system..... | 182 | Card board sawing machines, | | Carriages, hose..... | 538 | Carts, barrel (see carts, | |
| Car lighting tanks..... | 1105 | wood..... | 626 | Carriages, saw mill..... | 1016 | hand & barrel). | |
| Car lights, signal..... | 1045 | Card board signs..... | 1046 | Carriages, tension..... | 184 | Carts, coal..... | 193 |
| Car link & pin machines..... | 626 | Card clothing..... | 1118 | Carriages & carts, hose..... | 538 | Carts, concrete..... | 193 |
| Car loaders, box..... | 586 | Card cutting machines..... | 626 | Carrier feeders, sugar cane..... | 431 | Carts, concrete..... | 193 |
| Car loaders, grain..... | 586 | Card cutting machines (tex- | | Carriers, belt (see convey- | | Carts, dumping..... | 193 |
| Car lock mfrs..... | 587 | tile)..... | 1118 | ors, belt). | | Carts, garbage (see wagons, | |
| Car mfrs. (see cars). | | Card cutting presses (see | | Carriers, can & bag, street | | garbage). | |
| Car movers or pushers..... | 182 | card cutting machines). | | sweeping..... | 184 | Carts, hand, street sweeping..... | 193 |
| Car pit motor lifts..... | 583 | Card feed rolls..... | 1129 | Carriers, cash..... | 193 | Carts, hand & barrel..... | 193 |
| Car pit rollers..... | 796 | Card grinder wheels..... | 1118 | Carriers, gravity (see con- | | Carts, harrow..... | 193 |
| Car platforms, steel..... | 832 | Card grinding machines..... | 1119 | veyors, gravity). | | Carts, hose (carriage & | |
| Car plush..... | 182 | Card holders..... | 534 | Carriers, hay..... | 184 | carts)..... | 538 |
| Car pullers..... | 910 | Card indexes..... | 183 | Carriers, merchandise..... | 184 | Carts, linemen's..... | 193 |
| Car pushers..... | 182 | Card machines, sample..... | 1120 | Carriers, milk jar..... | 184 | Carts, logging..... | 193 |
| Car radiators, electric (see | | Card middles..... | 1119 | Carrouels, organs, etc..... | 183 | Carts, lumber..... | 193 |
| heaters, electric car). | | Card repeaters, Jacquard..... | 1119 | Carrying hooks..... | 536 | Carts, pick-up or beam..... | 193 |
| Car replacers..... | 942 | Card screens..... | 1129 | Carrying shanks..... | 1035 | Carts, push (see carts, hand | |
| Car replacing jacks..... | 562 | Card setting machinery..... | 1119 | Cars, ballast..... | 184 | & barrel). | |
| Car rivets..... | 945 | Card stitching machines, | | Cars, Barney..... | 184 | Carts, railroad..... | 193 |
| Car roof saddles for running | | Jacquard..... | 1119 | Cars, billet..... | 184 | Carts, road spreading..... | 193 |
| board..... | 1001 | Card stretchers..... | 1119 | Cars, blue print..... | 69 | Carts, sprinkling..... | 193 |
| Car roofing..... | 992 | Card tables..... | 1103 | Cars, brick..... | 185 | Carts, transfer..... | 193 |
| Car seals & sealing presses..... | 1029 | Card wire..... | 1201 | Cars, bridge gang..... | 185 | Carts & wagons, street | |
| Car seat springs..... | 1059 | Card & garnett machines, | | Cars, cane (see cars, plan- | | sprinkling..... | 1096 |
| Car seats, chairs & fittings..... | 182 | combined..... | 1123 | tation). | | Carved mouldings..... | 787 |
| Car seats, reversible..... | 1030 | Cardboard signs..... | 1046 | Cars, canopy..... | 185 | Carved wood capitals..... | 181 |
| Car signs..... | 1046 | Carders' tools..... | 1119 | Cars, charging..... | 185 | Carvers, stone..... | 193 |
| Car spring coiling machines..... | 626 | Cardigan jacket knitting ma- | | Cars, charging, open hearth..... | 185 | Carvers, wood, classic..... | 193 |
| Car springs..... | 1059 | chines..... | 1125 | Cars, clay..... | 185 | Carving knives..... | 567 |
| Car starters (see car mov- | | Cards, color, paint mfrs..... | 809 | Cars, coal..... | 185 | Carving machines, corner | |
| ers). | | Cards, cotton..... | 1119 | Cars, concrete..... | 185 | block..... | 627 |
| Car steam & electric | | Cards, felt..... | 1119 | Cars, concrete block..... | 185 | Carving machines, wood..... | 674 |
| trucks..... | 1154 | Cards, "foss & pevey"..... | 1119 | Cars, core oven..... | 185 | Carving tools..... | 1143 |
| Car steps..... | 182 | Cards, hand..... | 1119 | Cars, derrick or crane..... | 186 | Case hardened nuts..... | 794 |
| Car stoves..... | 1094 | Cards, Jacquard..... | 1119 | Cars, drop bottom..... | 186 | Case hardening..... | 193 |
| Car tanks..... | 1105 | Cards, revolving flat..... | 1119 | Cars, dryer..... | 186 | Case hardening furnaces..... | 454 |
| Car trimmings..... | 182 | Cards, roll..... | 1119 | | | Case hardening & tempering | |
| Car truck & body bolsters..... | 182 | Cards, simplex..... | 1119 | | | compounds..... | 241 |
| Car trucks, steam & electric..... | 1154 | | | | | Caseln..... | 193 |
| | | | | | | Casement adjusters..... | 2 |

| | Page | | Page | | Page | | Page |
|----------------------------------|------|------------------------------------|------|-----------------------------------|------|-----------------------------------|------|
| Cases, blow..... | 68 | Castings, mining..... | 203 | Cement lined wrought iron | 823 | Centering & cutting off ma- | Page |
| Cases, bolt & screw..... | 79 | Castings, nickel steel..... | 203 | pipe..... | 823 | chines, axle..... | 619 |
| Cases, book..... | 83 | Castings, ordnance..... | 203 | Cement machinery..... | 627 | Centers, bench..... | 216 |
| Cases, gear..... | 470 | Castings, Parson's bronze..... | 203 | Cement machinery gears..... | 471 | Centers, car wheel..... | 216 |
| Cases, mailing..... | 744 | Castings, phosphor bronze..... | 203 | Cement mfrs..... | 211 | Centers, index..... | 216 |
| Cases, show..... | 1044 | Castings, railroad..... | 204 | Cement mill repair parts..... | 213 | Centers, lathe..... | 216 |
| Cases, steel bottle..... | 193 | Castings, rock crusher..... | 204 | Cement mixers..... | 782 | Centers, milling machine | |
| Cash boxes..... | 84 | Castings, rolling mill & fur- | | Cement moulding machines | | (see machines, milling). | |
| Cash carriers..... | 193 | nace..... | 204 | (see concrete building | | Centers, planer..... | 216 |
| Cash or money drawers..... | 194 | Castings, semi-steel..... | 204 | block machinery). | | Centers, sash & transom..... | 216 |
| Cash recorders..... | 938 | Castings, sewer..... | 204 | Cement moulds..... | 213 | Centers, shaper..... | 216 |
| Cash register paper..... | 816 | Castings, sidewalk & vault | | Cement packers..... | 799 | Centers, steel arch..... | 216 |
| Cash registers..... | 940 | lights..... | 204 | Cement packing..... | 801 | Centrifugal fans..... | 428 |
| Casing nails..... | 789 | Castings, smelting work..... | 204 | Cement pipe & boiler cover- | | Centrifugal machine bowls..... | 84 |
| Casing, steam pipe..... | 194 | Castings, steamfitters' (see | | ings..... | 824 | Centrifugal machines, labo- | |
| Casings, metal..... | 194 | Castings, steel..... | 204 | Cement plant engineers..... | 379 | ratory..... | 628 |
| Casket corners..... | 280 | Castings, steel dredge..... | 206 | Cement plaster separators..... | 1030 | Centrifugal pumps..... | 915 |
| Casket hardware mfrs..... | 507 | Castings, stone crusher (see | | Cement post machinery..... | 628 | Centrifugal reels..... | 938 |
| Cassimere looms..... | 1125 | Castings, rock crusher). | | Cement roofing tile..... | 998 | Centrifugal separators..... | 1030 |
| Cast iron acid eggs..... | 1 | Castings, sugar house..... | 206 | Cement roofing tile machin- | | Centrifugal water tank | |
| Cast iron brazing..... | 194 | Castings, tempered copper | | ery..... | 628 | pumps..... | 916 |
| Cast iron caissons..... | 179 | for commutator bars..... | 206 | Cement screens..... | 1024 | Centrifugals..... | 216 |
| Cast iron columns..... | 240 | Castings, Tropenas steel..... | 206 | Cement separators..... | 1030 | Centrifugals, multi-stage | |
| Cast iron cylinders..... | 304 | Castings, vacuum pan..... | 206 | Cement sewer pipe ma- | | high lift..... | 789 |
| Cast iron filler (see cements, | | Castings, Veeder metal..... | 206 | chinery..... | 628 | Centrifugals & mixers, sugar..... | 1097 |
| iron filler). | | Castings, water works..... | 206 | Cement sewer pipe mfrs..... | 1033 | Ceramic mosaics..... | 783 |
| Cast iron fittings for gas | | Castings, white metal..... | 206 | Cement sewer pipe mfrs., re- | | Cesspools..... | 216 |
| & water mains..... | 442 | Castings, zinc..... | 206 | inforced..... | 1033 | Chafing dishes..... | 313 |
| Cast iron flanges..... | 443 | Catch basin covers..... | 291 | Cement shingle machinery..... | 628 | Chain belting mfrs..... | 61 |
| Cast iron frogs..... | 453 | Catch basins..... | 50 | Cement shingles..... | 1040 | Chain blocks, differential..... | 67 |
| Cast iron gas retorts (see re- | | Catchers, grass..... | 206 | Cement sidewalks name | | Chain blocks (see hoists, | |
| ports, gas, cast iron). | | Catchers, mail..... | 206 | plates..... | 791 | chain). | |
| Cast iron ornaments..... | 798 | Catchers & retrievers, trolley | | Cement sidewalks (see ce- | | Chain compounds, motor..... | 241 |
| Cast iron pipe coatings..... | 233 | 207 | | ment & concrete pave- | | Chain conveyors..... | 274 |
| Cast iron pipe columns..... | 240 | Catches, cupboard..... | 207 | ments). | | Chain dogs..... | 315 |
| Cast iron pipe cutters..... | 301 | Catches, door..... | 207 | Cement slacking machines..... | 628 | Chain drills..... | 323 |
| Cast iron pipe cutting ma- | | Catches, end gate..... | 207 | Cement stains, waterproof..... | 213 | Chain drives, angle..... | 328 |
| chines..... | 627 | Catches, transom..... | 207 | Cement tanks & cylinders..... | 1110 | Chain hoisting blocks..... | 67 |
| Cast iron pipe fittings..... | 442 | Cathedral rough plate & tile | | Cement testing machines..... | 669 | Chain hoists..... | 532 |
| Cast iron pipe, high pres- | | glass..... | 474 | Cement testing scales..... | 1019 | Chain hoists, pneumatic..... | 895 |
| sure..... | 194 | Catsup finishing machines..... | 627 | Cement waterproofigs..... | 109 | Chain hooks & tees..... | 537 |
| Cast iron pipe mfrs., gas & | | Cattle dehorners..... | 308 | Cement weighing machines, | | Chain ladder fire escapes..... | 437 |
| water..... | 194 | Cattle guards for railways..... | 497 | automatic..... | 628 | Chain links & chain, | |
| Cast iron pulleys..... | 911 | Cattle leaders..... | 582 | Cement & asphalt dryers..... | 330 | punched..... | 217 |
| Cast iron retorts..... | 942 | Cattle scales..... | 1019 | Cement & concrete pave- | | Chain making machinery..... | 628 |
| Cast iron sign letters..... | 582 | Cattle stanchions..... | 1065 | ments..... | 207 | Chain mfrs. (see chains, va- | |
| Cast iron signs..... | 1046 | Caustic lime..... | 584 | Cement & flour paper sacks..... | 1001 | rious kinds). | |
| Cast iron soil pipe cements..... | 213 | Caustic soda..... | 207 | Cements, asbestos..... | 213 | Chain mining machines..... | 628 |
| Cast iron soil pipe & fittings | | Caustic soda kettles..... | 565 | Cements, asphalt..... | 213 | Chain pins..... | 821 |
| 194 | | Cedar paving blocks (see | | Cements, asphalt..... | 213 | Chain pipe vises..... | 1179 |
| Cast iron stair treads..... | 1063 | paving blocks, wood). | | Cements, belt..... | 57 | Chain pipe wrenches..... | 1212 |
| Cast iron storage tanks..... | 1105 | Cedar shingles..... | 1040 | Cements, brine pipe..... | 213 | Chain pumps..... | 916 |
| Cast iron store fronts..... | 1092 | Cedar & fir doors..... | 318 | Cements, cast iron soil pipe..... | 213 | Chain, punched..... | 217 |
| Cast iron torches..... | 1147 | Ceiling dies..... | 311 | Cements, cast steel filler..... | 213 | Chain saw mortiser..... | 217 |
| Cast iron washers..... | 1184 | Ceiling fans..... | 428 | Cements, elastic..... | 213 | Chain shackles..... | 1034 |
| Cast manifolds..... | 746 | Ceiling flanges..... | 443 | Cements, fire..... | 213 | Chain stays..... | 217 |
| Cast steel boiler saddles..... | 71 | Ceiling hooks..... | 536 | Cements, French Portland..... | 213 | Chain stitch sewing ma- | |
| Cast steel filler cements..... | 213 | Ceiling plates..... | 830 | Cements, furnace & stove..... | 214 | chines..... | 1033 |
| Cast steel pins..... | 1128 | Ceiling presses..... | 903 | Cements, graphite..... | 214 | Chain testing machines..... | 669 |
| Cast steel pipe..... | 822 | Ceiling pulleys..... | 911 | Cements, hydraulic..... | 214 | Chain tire grips..... | 497 |
| Cast steel switching rope..... | 909 | Ceilings, car..... | 181 | Cements, iron filler..... | 214 | Chain tongs..... | 1141 |
| Cast & malleable iron flanges | | Ceilings, corrugated steel..... | 207 | Cements, iron & steel..... | 214 | Chain warpers & linkers..... | 1132 |
| 443 | | Ceilings, fireproof "Uralite"..... | 440 | Cements, Keene's American..... | 214 | Chain wire..... | 1201 |
| Caster wheels..... | 1193 | Ceilings, "gypsite" tile..... | 207 | Cements, Keene's imported..... | 214 | Chaining machines, yarn..... | 1133 |
| Casters..... | 194 | Ceilings, marbleized glass..... | 207 | Cements, Lafarge..... | 214 | Chains, agricultural..... | 217 |
| Casters, truck..... | 194 | Ceilings, ornamental steel..... | 207 | Cements, locomotive & boiler | | Chains, aluminum..... | 217 |
| Casters & wheels, rubber | | Ceilings, sheet steel..... | 207 | front..... | 214 | Chains, anti-spreader..... | 217 |
| tired..... | 194 | Cell work, steel (jail & cell) | | Cements, magnesia..... | 214 | Chains, arc lamp suspension..... | 217 |
| Casting breakers..... | 90 | 563 | | Cements, magnesite & | | Chains, automobile..... | 217 |
| Casting cleaners, pneumatic | | Cellar box cotters..... | 288 | chrome..... | 214 | Chains, awning..... | 217 |
| 895 | | Cellar door hinges..... | 529 | Cements, Meier's non-stain- | | Chains, ball bearing..... | 217 |
| Casting machines..... | 627 | Cellar doors..... | 318 | ing..... | 214 | Chains, bicycle..... | 217 |
| Castings, air furnace..... | 194 | Cellar drainers, automatic..... | 207 | Cements, paving..... | 214 | Chains, binder..... | 217 |
| Castings, aluminum..... | 194 | Cellar grates..... | 491 | Cements, pipe joint..... | 215 | Chains, bit..... | 217 |
| Castings, Atlas steel..... | 195 | Cellular tires, cushion..... | 1140 | Cements, plumbers' repair..... | 215 | Chains, block..... | 217 |
| Castings, automobile..... | 195 | Celluloid, fiberloid & pyralin | | Cements, Portland..... | 215 | Chains, brake..... | 217 |
| Castings, bake oven..... | 195 | mfrs..... | 207 | Cements, rivet..... | 216 | Chains, brass..... | 217 |
| Castings, blast furnace..... | 195 | Celluloid knives..... | 567 | Cements, roofing..... | 216 | Chains, breast..... | 217 |
| Castings, boiler (fronts & | | Celluloid signs..... | 1046 | Cements, Rosendale..... | 216 | Chains, breeching..... | 217 |
| castings)..... | 71 | Celluloid tubing..... | 1157 | Cements, rubber..... | 216 | Chains, cable & marine..... | 217 |
| Castings, brass..... | 195 | Celluloid working machinery | | Cements, stainless Portland..... | 216 | Chains, car brake..... | 217 |
| Castings, bridge..... | 199 | 627 | | Cement, stone setters..... | 216 | Chains, car fender..... | 217 |
| Castings, Britannia metal..... | 199 | Cement, belt..... | 57 | Cements, stove..... | 216 | Chains, coal mine & quarry..... | 217 |
| Castings, bronze..... | 199 | Cement bins, steel..... | 211 | Cements, tire..... | 216 | Chains, coil..... | 217 |
| Castings, builders..... | 200 | Cement brick machines..... | 627 | Cements & compounds, | | Chains, copper..... | 218 |
| Castings, carbon..... | 200 | Cement brick mfrs..... | 90 | "Smooth On"..... | 1054 | Chains, cow tie..... | 218 |
| Castings, chemical work..... | 200 | Cement coated wire nails..... | 789 | Cemetery railings..... | 216 | Chains, crane..... | 218 |
| Castings, chrome steel..... | 200 | Cement cooling towers..... | 1148 | Center drills..... | 323 | Chains, differential pulley | |
| Castings, compressor..... | 200 | Cement dealers (see masons | | Center gauges..... | 468 | block..... | 218 |
| Castings, copper..... | 200 | & builders' materials). | | Center grinders..... | 493 | Chains, dooby..... | 1121 |
| Castings, electrical..... | 200 | Cement driveways..... | 211 | Center grinders, pneumatic..... | 895 | Chains, dog, lead..... | 218 |
| Castings, elevator..... | 200 | Cement dryers..... | 330 | Center indicators..... | 542 | Chains, drag..... | 218 |
| Castings, for gold dredges..... | 201 | Cement floors for cellars, | | Center markers..... | 752 | Chains, dredge..... | 218 |
| Castings, Franklin metal..... | 201 | stables, etc..... | 211 | Center pieces, plaster (see | | Chains, elevator..... | 218 |
| Castings, gas engine..... | 201 | Cement for mortar, white..... | 211 | ornaments, plastic). | | Chains, filler gear..... | 218 |
| Castings, gas & water..... | 201 | Cement hollow block con- | | Center pieces, zinc (see or- | | Chains, fire hydrant..... | 218 |
| Castings, German silver..... | 201 | struction..... | 211 | naments, sheet metal). | | Chains, furnace..... | 218 |
| Castings, glass furnace..... | 201 | Cement importers..... | 211 | Center plates..... | 830 | Chains, galvanized pump..... | 218 |
| Castings, grey iron..... | 201 | Cement importers, Belgian..... | 211 | Center punches..... | 923 | Chains, halter..... | 218 |
| Castings, gun metal..... | 203 | Portland..... | 211 | Center reamers..... | 937 | Chains, harness..... | 218 |
| Castings, iron..... | 555 | Cement importers, English..... | 211 | Center squares..... | 1062 | Chains, hitching or mine..... | 218 |
| Castings, lead..... | 203 | Portland..... | 211 | Center testers..... | 1116 | Chains, hoist..... | 219 |
| Castings, Lumen bronze..... | 203 | Cement importers, German..... | 211 | Centering chucks..... | 224 | Chains, Howe bull..... | 219 |
| Castings, machinery..... | 203 | Portland..... | 211 | Centering device, drawbar, | | Chains, hydrant sets..... | 219 |
| Castings, malleable iron (see | | Cement importers, Mann- | | "Ideal"..... | 321 | Chains, ice elevator..... | 219 |
| founders', malleable iron). | | heimer Portland..... | 211 | Centering machines..... | 628 | Chains, jack..... | 219 |

| | Page | | Page | | Page | | Page |
|------------------------------------|------|------------------------------------|------------|-----------------------------------|------|-----------------------------------|------|
| Chains, jockey..... | 219 | Charcoal sheet iron | 555 | Chimneys & shades, incan- | | Cider presses (wine & cider)..... | 908 |
| Chains, kennel..... | 219 | Charcoal sinking furnaces.. | 456 | descent gas | 223 | Cigar box hinges..... | 529 |
| Chains, laminated hoisting.. | 219 | Charging barrows, concrete.. | 48 | China decorations | 223 | Cigar box machinery..... | 629 |
| Chains, link (see chain links | | Charging barrows, furnace.. | 49 | China & pottery kilns..... | 566 | Cigar box nails..... | 789 |
| & chain, punched). | | Charging boxes, open hearth | 84 | Chinchilla machines..... | 1119 | Cigar box openers..... | 797 |
| Chains, log..... | 219 | Charging buggies | 114 | Chip pans | 815 | Cigar box & cigar makers' | |
| Chains, machinery..... | 219 | Charging cars | 185 | Chipped glass | 474 | supplies | 225 |
| Chains, marine railway..... | 219 | Charging cars, open hearth.. | 185 | Chipped glass signs..... | 1046 | Cigar cutters..... | 301 |
| Chains, padlock..... | 219 | Charging machines, furnace.. | 640 | Chipper knives | 567 | Cigar humidors | 541 |
| Chains, pipe hangers..... | 219 | Charging machines, open | | Chippers, extract wood..... | 223 | Cigar knives | 567 |
| Chains, plumbers' | 219 | hearth | 628 | Chipping hammers..... | 498 | Cigar lighters..... | 225 |
| Chains, pole (see chains, | | Charging scales | 1019 | Chipping knives | 567 | Cigar machinery | 629 |
| coil). | | Charging sets, automobile.. | 221 | Chipping & calking ham- | | Cigar makers' supplies..... | 225 |
| Chains, porch swing..... | 219 | Charging tongs | 1141 | mers, pneumatic | 895 | Cigarette box machinery.... | 629 |
| Chains, pot | 219 | Charging & drawing cranes.. | 292 | Chips, cork | 280 | Cigarette machinery..... | 629 |
| Chains, power transmission.. | 219 | Charts & estimate books, | | Chisel bits, hollow..... | 64 | Cinder car ladders..... | 571 |
| Chains, pump | 219 | plumbers' | 892 | Chisels, box | 223 | Cinder cars, liquid..... | 189 |
| Chains, quarry..... | 219 | Chaser mills | 778 | Chisels, brick | 223 | Cinder mills | 778 |
| Chains, rafting | 219 | Chasers, screw..... | 221 & 1026 | Chisels, calking | 223 | Cinder & ore grinders..... | 493 |
| Chains, railroad | 219 | Chasing lathes | 577 | Chisels, carpenters' | 223 | Circle shears..... | 1037 |
| Chains, roller | 219 | Check blanks, brass..... | 221 | Chisels, cold & cape..... | 223 | Circle swings..... | 1100 |
| Chains, safety | 219 | Check nuts | 794 | Chisels, floor | 223 | Circle & oval machines.... | 629 |
| Chains, sash | 220 | Check perforators | 221 | Chisels, hollow mortising.. | 223 | Circles, combs & fallers.... | 1120 |
| Chains, sign | 220 | Check protectors | 222 | Chisels, ice | 223 | Circuit breaker handles.... | 501 |
| Chains, spreader..... | 220 | Check valves | 1165 | Chisels, ship socket..... | 224 | Circuit breakers | 90 |
| Chains, sprocket wheel..... | 220 | Check & jam nuts..... | 794 | Chisels, stone cutters' | 224 | Circular door & window | |
| Chains, stay (see chains, | | Check & spring mfrs., door.. | 315 | Chisels, track..... | 224 | hinges | 529 |
| wagons). | | Checks, baggage | 222 | Chloride accumulators..... | 1 | Circular folding machines... 629 | |
| Chains, steam shovel..... | 220 | Checks, factory time | 222 | Chloride of calcium..... | 224 | Circular knitting machines.. 1125 | |
| Chains, steel bushed..... | 220 | Checks, screen door..... | 1024 | Chloride of lime..... | 224 | Circular metal sawing ma- | |
| Chains, stone | 220 | Checks, shuttle | 1129 | Chloride of sulphur..... | 224 | chines | 629 |
| Chains, stud link..... | 220 | Checks, slot machine..... | 222 | Chloride of zinc..... | 1215 | Circular saw mills..... | 1016 |
| Chains, tie out..... | 220 | Checks, trade | 222 | Chlorinating barrels | 48 | Circular sawing machines, | |
| Chains, trace | 220 | Checks, box machinery..... | 628 | Chlorination mills | 778 | stone | 629 |
| Chains, transfer | 220 | Cheese cloth | 222 | Chlorination plants..... | 224 | Circular sawing machines, | |
| Chains, transom | 220 | Cheese factory machinery... 628 | | Chocolate dipping machines.. 629 | | wood | 629 |
| Chains, tubular | 220 | Cheese knives | 567 | Chocolate machinery | 629 | Circular saws | 1017 |
| Chains, wagon | 220 | Cheese presses..... | 903 | Choppers, food | 224 | Circular saws for metal.... 1018 | |
| Chains, weldless, steel wire.. 220 | | Cheese scoops | 1022 | Choppers, meat | 224 | Circular stone sawing ma- | |
| Chains, well | 220 | Cheese tryers | 1156 | Choppers & destroyers, | | chines | 629 |
| Chains, windmill | 220 | Chemical apparatus | 222 | ticket | 1134 | Circular stone saws..... | 1018 |
| Chains, wrecking | 220 | Chemical brick mfrs..... | 90 | Chopping knives | 567 | Circulating pumps | 916 |
| Chair cane (see rattan & | | Chemical eggs | 336 | Christmas tree holders..... | 535 | Circumference gauges, car | |
| reed works). | | Chemical engineers | 379 | Chrome brick mfrs..... | 90 | wheel | 468 |
| Chair machinery | 628 | Chemical engines | 412 | Chrome cements (magnesite | | Cistern pumps | 916 |
| Chair rods | 947 | Chemical fire engines..... | 436 | & chrome) | 214 | Citron marble | 750 |
| Chairs, camp (stools & | | Chemical grinding mills.... 779 | | Chromic ore | 797 | Civil engineers' field & of- | |
| chairs) | 179 | Chemical pans | 815 | Chrome steel castings..... | 200 | fice supplies | 225 |
| Chairs, car | 182 | Chemical pots | 902 | Chroming machines | 1119 | Civil, mechanical & mining | |
| Chairs, cast iron (see foun- | | Chemical retorts | 942 | Chronographs | 224 | engineers | 379 |
| tains, vases, etc.). | | Chemical salts | 1001 | Chronometer valves | 1165 | Clam hooks | 536 |
| Chairs, folding | 220 | Chemical stoneware..... | 1092 | Chronometers | 224 | Clam knives (oyster & clam) 569 | |
| Chairs, invalid | 221 | Chemical thermometers | 1133 | Chuck arbors, drill..... | 11 | Clam shell buckets..... | 112 |
| Chairs, iron (settees & | | Chemical towers | 1148 | Chuck blanks | 225 | Clam shell derricks..... | 309 |
| chairs) | 1032 | Chemical work castings.... 200 | | Chuck wrenches | 1212 | Clamp couplings | 290 |
| Chairs, lawn (settees & | | Chemical & druggists' glass- | | Chucking machines | 629 | Clamp dogs | 315 |
| chairs) | 1032 | ware | 482 | Chucking reamer holders.... 535 | | Clamp drills..... | 323 |
| Chairs, opera | 797 | Chemical & physical labora- | | Chucking reamers | 937 | Clamp spindles | 1058 |
| Chairs, rail | 221 | tories | 570 | Chucking & turning ma- | | Clamp & hand vise com- | |
| Chairs, reclining | 221 | Chemicalizers for street al- | | chines, automatic | 629 | bined | 225 |
| Chairs, revolving | 221 | ley flushing | 222 | Chucks, boring & turning | | Clamps, adjustable | 225 |
| Chairs, settees, etc., ve- | | Chemicals | 222 | mill | 224 | Clamps, air brake hose.... 225 | |
| neered (see veneer seat- | | Chemicals, battery | 53 | Chucks, car wheel..... | 224 | Clamps, basin | 225 |
| ing). | | Chemicals, nickel & electro- | | Chucks, centering | 224 | Clamps, beam | 226 |
| Chalk line reels..... | 938 | plating | 222 | Chucks, cylinder | 224 | Clamps, belt | 226 |
| Chalk lines | 221 | Chemicals & gases, liquefied 222 | | Chucks, drill | 224 | Clamps, boat | 226 |
| Chalk mfrs. | 221 | Chemists | 222 | Chucks, expanding | 224 | Clamps, boilermakers' | 226 |
| Chalk pencils, propelling & | | Chenille cutters | 1121 | Chucks, jaw | 224 | Clamps, bolt, Pearson King. 226 | |
| repelling | 818 | Chenille machines | 1119 | Chucks, lathe | 224 | Clamps, brake beam..... | 226 |
| Chalk, red marking..... | 221 | Cherry stoners | 1091 | Chucks, lever | 224 | Clamps, brick..... | 226 |
| Chamferer gauges | 468 | Chest handles | 501 | Chucks, magnetic | 224 | Clamps, bridge | 226 |
| Chamfering machines, die... 634 | | Chests, stuff | 1097 | Chucks, milling machine.... 225 | | Clamps, "C" | 226 |
| Chamfering & crozing ma- | | Chests, tool | 1142 | Chucks, nipple | 225 | Clamps, cabinetmakers' & | |
| chines | 628 | Chewing gum machines.... 628 | | Chucks, planer | 225 | carpenters' | 226 |
| Champagne taps..... | 1112 | Chicory planting & harvest- | | Chucks, projectile | 225 | Clamps, cable | 226 |
| Chandeliers (see gas & elec- | | ing machinery | 628 | Chucks, revolving..... | 225 | Clamps, column | 226 |
| tric fixtures). | | Children's carriage axles.... 43 | | Chucks, screw machine.... 225 | | Clamps, curtain frame.... 226 | |
| Changeable building direc- | | Children's carriage springs.. 1059 | | Chucks, scroll | 225 | Clamps, dock builders' | 226 |
| tories | 175 | Children's carriages | 184 | Chucks, spinning | 225 | Clamps, door | 226 |
| Changeable office & loft | | Children's vehicles | 1176 | Chucks, spring | 225 | Clamps, electric | 226 |
| building directories..... | 221 | Chilled bridge wheels..... | 1193 | Chucks, tapping | 225 | Clamps, fitters' | 227 |
| Changer, telephone pole.... 1114 | | Chilled calender rolls..... | 954 | Chucks, twist drill..... | 225 | Clamps, flanging | 227 |
| Channel bars, interlocking | | Chilled hammer dies..... | 311 | Chucks, wire or wheel..... | 225 | Clamps, flask | 227 |
| (see piling, interlocking | | Chilled rolls | 955 | Chucks & chuck blanks.... 225 | | Clamps, flooring | 227 |
| steel). | | Chilian mill grinders..... | 495 | Church bells | 56 | Clamps, furniture | 227 |
| Channel iron (see iron & | | Chilian mills | 778 | Church crosses | 225 | Clamps, ground connection.. 227 | |
| steel mfrs., angle, chan- | | Chime bells | 56 | Church decorations | 305 | Clamps, guy | 227 |
| nel & tee). | | Chime whistles | 1196 | Church furniture | 458 | Clamps, hose | 227 |
| Channel pins | 821 | Chimney blocks, perforated | | Church organs..... | 798 | Clamps, hydrant & water | |
| Channel shears (beam & | | radial | 222 | Church reflectors..... | 939 | pipe | 227 |
| channel) | 1036 | Chimney caps | 181 | Church, school & theater | | Clamps, insulator | 227 |
| Channeler springs, rubber... 1061 | | Chimney pipe (see flue lin- | | renovators | 942 | Clamps, key seat..... | 227 |
| Channeling machines, stone.. 667 | | ings). | | Church seating (see furni- | | Clamps, linemen's splicing.. 227 | |
| Channeling machines, stone, | | Chimney thimbles | 1134 | ture, church). | | Clamps, machinists' | 227 |
| electric air..... | 667 | Chimney tops | 222 | Church spires repaired..... 225 | | Clamps, measuring bar..... 227 | |
| Channels, angles, tees, etc., | | Chimney tops, galvanized... 222 | | Churns | 225 | Clamps, messenger..... | 227 |
| iron & steel..... | 558 | Chimney tops, revolving.... 222 | | Churns, box factory..... | 225 | Clamps, parallel | 227 |
| Chaplet pointer & rod cutter. 221 | | Chimney tops, slate (see | | Chutes, coal..... | 233 | Clamps, piano & cabinet | |
| Chaplets, foundry | 221 | slate stair treads, etc.). | | Chutes, coal, locomotive | | makers' | 227 |
| Chaplets, radiator | 221 | Chimney valves | 1165 | coaling | 233 | Clamps, pipe | 227 |
| Chaplets, stems..... | 1079 | Chimneys, concrete | 222 | Chutes, mail, for buildings.. 744 | | Clamps, plow | 227 |
| Chaplets, wrought iron.... 221 | | Chimneys, lamp | 222 | Chutes, sand | 225 | Clamps, pole | 227 |
| Char filters & kilns..... | 1097 | Chimneys, mica | 222 | Chutes, steel plate..... | 225 | Clamps, quilt frame..... | 227 |
| Charcoal | 221 | Chimneys of perforated ra- | | Cider making machinery (see | | Clamps, rail | 227 |
| Charcoal, bone..... | 221 | dial blocks..... | 222 | wine making machinery). | | Clamps, rule | 227 |
| Charcoal filters | 434 | Chimneys, steel..... | 222 & 1071 | Cider mills..... | 778 | Clamps, saw | 227 |

| | Page | | Page | | Page | | Page |
|-------------------------------|-----------|--------------------------------|------|-----------------------------------|------|--------------------------------|------|
| Clamps, saw brazing..... | 227 | Climbers, linemen's..... | 229 | Cloth rolling machines..... | 1119 | Coal mauls..... | 766 |
| Clamps, screw..... | 227 | Clinch nails..... | 789 | Cloth room machinery (see | | Coal mine & quarry chains..... | 217 |
| Clamps, ship..... | 227 | Clinch rings..... | 944 | textile machinery). | | Coal mining machinery..... | 630 |
| Clamps, splicing (see clamps, | | Clinker brick mfrs..... | 90 | Cloth, rubber & enamel car- | | Coal mining machinery, elec- | |
| linemen's, splicing). | | Clinker conveyors..... | 274 | riage..... | 1000 | tric..... | 630 |
| Clamps, steam joint..... | 227 | Clinker coolers..... | 277 | Cloth, shade..... | 1034 | Coal picks, locomotive | |
| Clamps, steel..... | 227 | Clinker paving brick mfrs.. | 90 | Cloth signs..... | 1046 | tender..... | 819 |
| Clamps, steel pipe..... | 228 | Clinton system, fire-proofing | 440 | Cloth stamping machines.... | 1119 | Coal pocket gates..... | 466 |
| Clamps, turning..... | 228 | Clippers, bolt or rivet..... | 230 | Cloth stretchers..... | 1120 | Coal pockets..... | 900 |
| Clamps, veneering..... | 228 | Clippers, cattle dehorning | | Cloth testing machines..... | 1131 | Coal prospecting drills..... | 323 |
| Clamps, wagon spring..... | 228 | (see dehorning). | | Cloth, varnish..... | 1172 | Coal scales..... | 1019 |
| Clamps, water closet (see | | Clippers, finger nail..... | 230 | Cloth washers..... | 1132 | Coal scales, automatic..... | 1019 |
| clamps, basin). | | Clippers, hair..... | 230 | Cloth, waterproofing..... | 1187 | Coal scales, traveling..... | 1019 |
| Clamps, water pipe (hydrant | | Clippers, horse..... | 230 | Cloth weaving machines, | | Coal scoops..... | 1022 |
| & water pipe)..... | 227 | Clippers, orange..... | 230 | wire..... | 672 | Coal screens..... | 1025 |
| Clamps, wire rope..... | 228 | Clippers, pneumatic staybolt | 898 | Cloth winding machines.... | 1133 | Coal separators..... | 1030 |
| Clapboard machinery..... | 629 | Clipping machines, horse.... | 642 | Cloth, window shade..... | 232 | Coal shearing machines.... | 630 |
| Clapboard markers..... | 752 | Clipping shears..... | 1037 | Cloth, wire (see wire cloth, | | Coal shovels..... | 1043 |
| Clarifiers..... | 1097 | Clips, axle..... | 230 | various kinds). | | Coal stone dryers, etc..... | 330 |
| Clasps, pail..... | 228 | Clips, cable hanging (see | | Cloth & paper tracing..... | 1149 | Coal storage plant construc- | |
| Classic wood carvers..... | 193 | hangers, cable). | | Clothes dryers, hot air..... | 232 | tion..... | 233 |
| Classifiers, hydraulic..... | 228 | Clips, damper..... | 230 | Clothes dryers, steam, hot | | Coal tar products..... | 233 |
| Claw bars..... | 49 | Clips, floor..... | 230 | water or gas..... | 232 | Coal tipples & trestles, steel | 233 |
| Claw hammers..... | 498 | Clips, paper..... | 230 | Clothes drying frames..... | 232 | Coal tubs, self-dumping (see | |
| Claws, tack..... | 228 | Clips, sleeper..... | 230 | Clothes drying machinery | | tubs, self-dumping). | |
| Clay building block machin- | | Clips, structural steel..... | 230 | (see laundry dryers). | | Coal wagons..... | 1181 |
| ery..... | 629 | Clips, tenter..... | 1131 | Clothes line brackets, "O. | | Coal washing machinery.... | 630 |
| Clay cars..... | 185 | Clips, trolley wire..... | 230 | V. C."..... | 799 | Coal & coke crushing & | |
| Clay cleats (porcelain or | | Clips, wire rope..... | 230 | Clothes line hooks..... | 536 | screening plants..... | 233 |
| clay)..... | 229 | Clock dials, gauge, scale, | | Clothes line pulley brackets. | 910 | Coal & ore handling machin- | |
| Clay conveyors..... | 274 | etc..... | 310 | Clothes line pulleys..... | 911 | ery..... | 630 |
| Clay crushers..... | 298 | Clock-machinery..... | 629 | Clothes line reels..... | 938 | Coal & placer mining | |
| Clay filtering machinery.... | 629 | Clock mfrs..... | 230 | Clothes line window brackets | 1198 | dredges..... | 322 |
| Clay, fire..... | 436 | Clock movements for meters, | | Clothes lines..... | 232 | Coal & rock drills..... | 323 |
| Clay, foundry..... | 451 | etc..... | 230 | Clothes lines, wire..... | 232 | Coal & stone dryers..... | 330 |
| Clay gatherer, dry..... | 329 | Clock springs..... | 1059 | Clothes locker lock mfrs.... | 587 | Coaling pier construction... | 233 |
| Clay grinders (minerals, | | Clock trimmings..... | 230 | Clothes pin knives..... | 567 | Coaling stations..... | 233 |
| clays, etc.)..... | 495 | Clocks, angelus strikers, | | Clothes pin machinery..... | 629 | Coaling stations, locomotive. | 589 |
| Clay grinding machinery.... | 629 | quarter & half-hour strik- | | Clothes pins..... | 821 | Coaster brake..... | 89 |
| Clay miners & shippers.... | 228 | ers..... | 230 | Clothes reel centers, iron.... | 232 | Coaster wagons..... | 1181 |
| Clay mixers..... | 782 | Clocks, electric..... | 230 | Clothes wringers..... | 1215 | Coasters, roller..... | 949 |
| Clay picks..... | 819 | Clocks, electric alarm..... | 230 | Clothing, card..... | 1118 | Coat racks..... | 927 |
| Clay pigeons..... | 820 | Clocks, English hall..... | 230 | Clothing, oiled..... | 232 | Coat & hat hook machines, | |
| Clay plows..... | 834 | Clocks, locomotive..... | 230 | Cloths, wiping..... | 1201 | automatic..... | 631 |
| Clay retorts (see retorts, | | Clocks, marine..... | 231 | Clout nails..... | 789 | Coat & hat hooks..... | 536 |
| gas). | | Clocks, pneumatic..... | 231 | Clover huller knives..... | 567 | Coating machines, gelatine.. | 641 |
| Clay screens..... | 1024 | Clocks, program..... | 231 | Clover hullers..... | 541 | Coating mill machinery.... | 631 |
| Clay tempering machinery.. | 629 | Clocks, secondary electric.... | 231 | Clubs, Indian..... | 542 | Coating, roofing "Elat-er- | |
| Clay washing machinery.... | 629 | Clocks, self-winding, electric | 231 | Clusters, fixture..... | 232 | oid"..... | 993 |
| Clay workers' dles..... | 311 | Clocks, synchronized sys- | | Clutch attachments, feeder.. | 1122 | Coating & lubricant, wire | |
| Clay working machinery (see | | tems..... | 231 | Clutch couplings..... | 290 | rope..... | 1206 |
| brick machinery). | | Clocks, time recorders..... | 231 | Clutch nails..... | 789 | Coating & varnishing ma- | |
| Clays, minerals, etc..... | 228 | Clocks, time recording sys- | | Clutch, radiator union nip- | | chines..... | 631 |
| Clays, modeling..... | 228 | tem..... | 231 | ple..... | 927 | Coatings, cast iron pipe.... | 233 |
| Clean-up or amalgam barrels. | 48 | Clocks, tower..... | 231 | Clutches, arc lamp..... | 232 | Cob mills (corn & cob)..... | 778 |
| Clean-up pans..... | 815 | Clocks, warehouse..... | 231 | Clutches, electric..... | 232 | Cobblers' outfits..... | 233 |
| Cleaner, oats..... | 795 | Clocks, watchman's..... | 231 | Clutches, friction..... | 232 | Cock drips, gauge..... | 328 |
| Cleaners, bean & pea..... | 228 | Clocks & watches, dash- | | Clutches, gas engine..... | 233 | Cock grinders..... | 493 |
| Cleaners, boiler, flue & tube | | board..... | 231 | Clutches, magnetic..... | 233 | Cockle machines..... | 631 |
| Cleaners, carpet..... | 229 | Clogs, dyehouse..... | 1119 | Coach screws..... | 1028 | Cocks, air..... | 233 |
| Cleaners, casting, pneumatic | 895 | Closed circuit batteries.... | 52 | Coach vestibule fittings.... | 442 | Cocks, ale & beer..... | 234 |
| Cleaners, corn..... | 229 | Closers, door..... | 316 | Coachmakers' or woodwork- | | Cocks, ball..... | 234 |
| Cleaners, drain (see shovels, | | Closet connections..... | 249 | ers' vises..... | 1179 | Cocks, basin..... | 234 |
| drain). | | Closet couplings..... | 290 | Coal bags..... | 44 | Cocks, bath..... | 234 |
| Cleaners, gun..... | 229 | Closet door hinges..... | 529 | Coal barrows (see steel bar- | | Cocks, bibb nose..... | 234 |
| Cleaners, hose..... | 229 | Closet flushing valves..... | 1165 | rows). | | Cocks, blow-off..... | 234 |
| Cleaners, Incandescent | | Closet pulls..... | 912 | Coal breaker machinery.... | 629 | Cocks, corporation..... | 234 |
| lamp..... | 229 & 572 | Closet seat hinges..... | 529 | Coal buckets..... | 113 | Cocks, curb..... | 234 |
| Cleaners, lifting rod..... | 1125 | Closet ventilators..... | 1178 | Coal buckets, automatic | | Cocks, cylinder..... | 235 |
| Cleaners, pavement..... | 229 | Closets, dry earth..... | 231 | steam..... | 233 | Cocks, filter press..... | 235 |
| Cleaners, pipe..... | 229 | Closets, park..... | 231 | Coal cars..... | 185 | Cocks, four-way..... | 235 |
| Cleaners, pneumatic casting | 895 | Closets, water (see water | | Coal carts..... | 193 | Cocks, gas engine..... | 235 |
| Cleaners, street railway | | closets, various kinds). | | Coal churning wagons..... | 1181 | Cocks, gas meter..... | 235 |
| track..... | 1149 | Closing machines, elbow | | Coal chutes..... | 233 | Cocks, gas service..... | 235 |
| Cleaners, track (see scrapers | | seam..... | 636 | Coal chutes, locomotive coal- | | Cocks, gas stove..... | 235 |
| or cleaners, track). | | Closing machines for friction | | ing..... | 233 | Cocks, gauge..... | 235 |
| Cleaners, traveler..... | 1131 | top cans..... | 629 | Coal conveyors..... | 274 | Cocks, hydraulic..... | 235 |
| Cleaners, wall paper..... | 229 | Closing machines for steel | | Coal crushers..... | 298 | Cocks, indicator..... | 235 |
| Cleaners, window..... | 229 | lead kegs..... | 629 | Coal crushing & screening | | Cocks, lead..... | 235 |
| Cleaners & pickers, stock.. | 1128 | Cloth, asbestos..... | 36 | plants..... | 233 | Cocks, liquid fuel regulat- | |
| Cleaning by compressed air | 229 | Cloth, asbestos metallic.... | 36 | Coal cutting machines..... | 629 | ing..... | 235 |
| Cleaning machines, acid.... | 618 | Cloth boards..... | 1119 | Coal dock outfits..... | 233 | Cocks, liquor..... | 235 |
| Cleaning machines, car | | Cloth, bolting..... | 79 | Coal dust burners..... | 176 | Cocks, locomotive cylinder.. | 235 |
| wheel..... | 626 | Cloth brushing machines.... | 1119 | Coal elevators (see convey- | | Cocks, oil..... | 236 |
| Cleaning rods, conduit.... | 948 | Cloth calendering machines. | 1119 | ors, coal). | | Cocks, plug..... | 236 |
| Cleaning & grading machin- | | Cloth, cheese..... | 222 | Coal elevators, travelling... 374 | | Cocks, pneumatic cylinder.. | 236 |
| ery, grain..... | 641 | Cloth cutting machines..... | 1119 | Coal handling bridges..... | 109 | Cocks, refrigerator..... | 236 |
| Cleaning & grading mach- | | Cloth dryers..... | 1121 | Coal handling conveyors.... | 274 | Cocks, relief..... | 236 |
| ines, green pea..... | 641 | Cloth expanders, "Mycock's" | 1119 | Coal handling hoists..... | 532 | Cocks, shampoo..... | 236 |
| Cleaning & separating ma- | | Cloth, filter..... | 434 | Coal handling machinery | | Cocks, ship..... | 236 |
| chinery, seed..... | 662 | Cloth finishing machines.... | 1122 | (see coal & ore handling | | Cocks, spring key..... | 236 |
| Cleanouts..... | 229 | Cloth folding machines..... | 1123 | machinery). | | Cocks, steam..... | 236 |
| Cleansing powder & com- | | Cloth inspecting machines. | 1119 | Coal handling plant con- | | Cocks, stop & waste..... | 236 |
| pounds, car..... | 181 | Cloth, insulating..... | 545 | struction..... | 233 | Cocks, three-way..... | 236 |
| Cleating & nailing machines, | | Cloth machinery, rubber.... | 660 | Coal handling plants, auto- | | Cocks, throttle..... | 236 |
| box..... | 623 | Cloth mfrs., hair..... | 498 | matic..... | 233 | Cocks & bibbs, compression. | 236 |
| Cleats, boat or ship..... | 229 | Cloth mfrs., shade..... | 1034 | Coal handling plants, com- | | Cocks & bibbs, Fuller work. | 237 |
| Cleats, car wiring..... | 229 | Cloth measuring machines.. | 1119 | plete..... | 233 | Cocks & bibbs, ground key.. | 237 |
| Cleats, mooring..... | 229 | Cloth, metallic asbestos.... | 36 | Coal hods..... | 531 | Cocks & bibbs, self-closing.. | 237 |
| Cleats, porcelain or clay.. | 229 | Cloth, motor..... | 785 | Coal hoisting blocks, iron... 67 | | Cocoa bean roasting ma- | |
| Cleats, rope..... | 229 | Cloth, oil..... | 795 | Coal hoists, incline travelling | 532 | chines (coffee, peanut, | |
| Cleavers, butchers', etc.... | 229 | Cloth presses..... | 1128 | Coal hole covers..... | 233 | etc.)..... | 631 |
| Clevis nuts..... | 794 | Cloth presses, rotary steam. | 1128 | Coal hole covers, safety.... | 233 | Cocoa machinery..... | 631 |
| Clevises, plow, etc..... | 229 | Cloth pressing machines.... | 1119 | Coal jigs..... | 564 | Cocoa mats & matting..... | 766 |
| | | | | | | Cocoa mills..... | 778 |

| | Page | | Page | | Page | | Page |
|---|------|---|------|---|------|---|------|
| Cocoa plantation machinery..... | 631 | Cold storage & refrigerator insulation..... | 546 | Complete coal handling plants..... | 233 | Concrete binder..... | 244 |
| Cocoonut cutters..... | 301 | Cold swaging machines..... | 631 | Complete equipment smelting plants..... | 1053 | Concrete block cars..... | 185 |
| Cocoonut oil machinery..... | 631 | Cold water paints..... | 810 | Complete galvanizing plants..... | 460 | Concrete brick machines (see cement brick machines)..... | |
| Coffee dryers..... | 330 | Collapsible buckets & pails..... | 114 | Complete stone crushing plants..... | 1082 | Concrete bridges, reinforced..... | 109 |
| Coffee hullers..... | 541 | Collapsible taps..... | 1112 | Compo-board blackboards..... | 65 | Concrete bucket holsts..... | 532 |
| Coffee hulling machinery (rice & coffee hulling)..... | 658 | Collar bolts..... | 80 | Compo-board, waterproof..... | 241 | Concrete buckets, contractors'..... | 113 |
| Coffee mills..... | 778 | Collar flanges (see boiler heads)..... | | Compo-board, water proof surface..... | 241 | Concrete building block machinery..... | 631 |
| Coffee, peanut & cocoa bean roasting machines..... | 631 | Collar folding machines..... | 631 | Compo-moulding presses..... | 903 | Concrete building blocks, hollow..... | 67 |
| Coffee plckers..... | 819 | Collar screws..... | 1028 | Composimeters, gas..... | 461 | Concrete cars..... | 185 |
| Coffee roasters, gas..... | 238 | Collar & cuff machinery..... | 631 | Composite boards..... | 241 | Concrete carts..... | 193 |
| Coffee urns (see cooking apparatus)..... | | Collar machinery, horse..... | 642 | Composition boat spikes..... | 1057 | Concrete charging barrows..... | 48 |
| Coffee & rice cleaning machinery..... | 631 | Collar seam dampening machines..... | 631 | Composition capitals..... | 181 | Concrete chimneys..... | 222 |
| Coffee & rice plantation machinery..... | 631 | Collarette cutters..... | 1121 | Composition ornaments..... | 798 | Concrete construction (see concrete steel construction)..... | |
| Coffee & spice mill machinery..... | 631 | Collars, dog..... | 239 | Compound brazing..... | 90 | Concrete curb, steel bound..... | 244 |
| Cofferdams, watertight..... | 238 | Collars, horse..... | 538 | Compound engines..... | 412 | Concrete engineers, reinforced..... | 411 |
| Cogs, mill..... | 770 | Collars or nuts..... | 794 | Compound, roof paving..... | 955 | Concrete fence post machines..... | 632 |
| Cogs, wood..... | 238 | Collars, shafting..... | 1034 | Compounds, boiler..... | 70 | Concrete finishing tools..... | 1143 |
| Coil chains..... | 217 | Collars, split..... | 239 | Compounds, case hardening & tempering..... | 241 | Concrete floors & arches..... | 244 |
| Coil or spiral springs..... | 1059 | Collars, steam pipe..... | 239 | Compounds, commutator..... | 241 | Concrete foundations (see bridge foundations)..... | |
| Coil switches..... | 1101 | Collars, thrust..... | 239 | Compounds, core..... | 241 | Concrete hangers..... | 503 |
| Coil tapping machines, armature..... | 619 | Collectors, dust, mechanical..... | 334 | Compounds, damp resisting..... | 241 | Concrete mixer elevators..... | 369 |
| Coil water heaters..... | 523 | Colleges & schools, engineering..... | 377 | Compounds, drilling..... | 241 | Concrete mixer trucks..... | 1154 |
| Coil winding machines, armature..... | 619 | Collets..... | 239 | Compounds, elevator..... | 241 | Concrete mixers..... | 244 |
| Coiled spring wire..... | 1203 | Colonial candlesticks..... | 180 | Compounds, grinding..... | 241 | Concrete mixers for export..... | 245 |
| Coilers, wire..... | 238 | Colonial door knockers..... | 318 | Compounds, insulating..... | 545 | Concrete pavements (cement & concrete)..... | 207 |
| Coiling machines, spring..... | 666 | Colonial spirits..... | 1058 | Compounds, lubricating..... | 592 | Concrete piles..... | 821 |
| Coils, armature & field..... | 238 | Color cards, paint mfrs..... | 809 | Compounds, motor chain..... | 241 | Concrete presses (see concrete building block machinery)..... | |
| Coils, copper..... | 278 | Color mfrs. & importers..... | 239 | Compounds, pipe joint..... | 241 | Concrete rammers, pneumatic..... | 895 |
| Coils, heating, for steam or hot water heating..... | 524 | Colored crayons..... | 296 | Compounds, roof paving..... | 955 | Concrete re-enforcing materials..... | 245 |
| Coils, induction..... | 238 | Colored marble, foreign..... | 750 | Compounds, splicing..... | 241 | Concrete re-enforcing materials, steel..... | 245 |
| Coils, phosphor bronze..... | 238 | Colors, aniline..... | 10 | Compounds, waterproofing..... | 1187 | Concrete rollers..... | 949 |
| Coils, pipe (bends & coils)..... | 822 | Colors, steel..... | 240 | Compounds, water purifying..... | 1187 | Concrete spreaders..... | 1058 |
| Coils, resistance..... | 238 | Colors & fillers, papermakers'..... | 240 | Compounds, welding..... | 241 | Concrete steel construction, reinforced..... | 245 |
| Coils, spark..... | 238 | Column clamps..... | 226 | Compress cylinders..... | 304 | Concrete steel railroad ties..... | 1135 |
| Coin counting machines..... | 631 | Column coverings..... | 240 | Compressed air building cleaning..... | 175 | Concrete steel tanks..... | 1105 |
| Coin operating machines (see vending machines)..... | | Column cutting machines, granite..... | 641 | Compressed air disinfecting machinery, spraying by..... | 634 | Concrete tampers..... | 1104 |
| Coining machines..... | 631 | Columns, cast iron..... | 240 | Compressed air disinfecting paint machines..... | 634 | Concrete testing jacks, hydraulic..... | 562 |
| Coke bags..... | 44 | Columns, cast iron pipe..... | 240 | Compressed air drills..... | 323 | Concrete tooling hammers..... | 498 |
| Coke barrows..... | 48 | Columns, fire-proof..... | 240 | Compressed air engines..... | 412 | Concrete tools (see tools, paving)..... | |
| Coke barrows, hooded..... | 49 | Columns, polished granite..... | 485 | Compressed air locomotives..... | 590 | Condensed milk machinery..... | 632 |
| Coke buggies..... | 114 | Columns, porch, etc..... | 240 | Compressed air paint spraying machinery..... | 650 | Condenser aprons..... | 11 |
| Coke crushers..... | 298 | Columns, slate..... | 1051 | Compressed air painting sprays..... | 809 | Condenser pumps (see condensers, steam)..... | |
| Coke crushing machinery (see crushers, coke)..... | | Columns, wood..... | 1209 | Compressed air tanks..... | 1105 | Condenser tanks..... | 1105 |
| Coke crushing & screening plants..... | 233 | Comb tools..... | 1143 | Compressed linen polishing wheels..... | 1194 | Condenser tubing..... | 1157 |
| Coke forks..... | 449 | Comb & hair pin machinery & tools..... | 631 | Compressed metal..... | 768 | Condensers, ammonia..... | 247 |
| Coke mfrs..... | 238 | Comber needles..... | 1127 | Compressed yeast machinery..... | 631 | Condensers, barometric..... | 247 |
| Coke oven construction..... | 239 | Combination center drills..... | 323 | Compresses, cotton..... | 289 | Condensers, electric..... | 247 |
| Coke oven dampers..... | 305 | Combination dies, oblong..... | 312 | Compressing gas pumps..... | 917 | Condensers, electric telephone..... | 247 |
| Coke oven machinery..... | 631 | Combination elevators, hand & power..... | 369 | Compression cocks & bibbs..... | 236 | Condensers, gas..... | 247 |
| Coke oven shells..... | 1040 | Combination heaters..... | 518 | Compression couplings..... | 290 | Condensers, ice machine..... | 247 |
| Coke oven valves (gas & coke oven)..... | 1166 | Combination indicators..... | 542 | Compression gauges..... | 468 | Condensers, independent..... | 247 |
| Coke plant construction..... | 239 | Combination squares..... | 1062 | Compression riveters, pneumatic..... | 895 | Condensers, steam..... | 247 |
| Coke scraper heads..... | 518 | Combination wrenches..... | 1212 | Compression springs..... | 1060 | Condensing plants, Weiss central..... | 248 |
| Coke scrapers..... | 1023 | Combined anvil & vise..... | 11 | "Compresso" blackboards..... | 65 | Conductor pipe elbows..... | 336 |
| Coke wagons..... | 1181 | Combined axle cutter & screw plate..... | 42 | "Compresso" school blackboards..... | 65 | Conductor pipe hangers..... | 503 |
| Cold blast valves (hot & cold)..... | 1168 | Combined countersinks & center drills..... | 289 | Compressor castings..... | 200 | Conductor pipe hooks..... | 536 |
| Cold chisels..... | 223 | Combined drill & reamer taps..... | 1112 | Compressor governors..... | 484 | Conductor pipe & eave trough machinery..... | 632 |
| Cold compressed steel elevator guides..... | 368 | Combined drill & vise..... | 322 | Compressors, air..... | 241 | Conductor pipe & eave trough mfrs..... | 248 |
| Cold drawn nuts..... | 794 | Combined drills & listers..... | 328 | Compressors, air portable..... | 243 | Conductor pipe & eave trough steel..... | 1072 |
| Cold drawn steel..... | 1071 | Combined engine & boiler..... | 377 | Compressors, air, portable on auto trucks..... | 243 | Conductor strainers..... | 1096 |
| Cold drawn steel shafting..... | 1034 | Combined gas & steam indicators..... | 542 | Compressors, air, second hand..... | 243 | Conductor & elbow shoes..... | 248 |
| Cold drawn steel wire..... | 1203 | Combined harvesters..... | 516 | Compressors, ammonia..... | 243 | Conductors, lightning..... | 584 |
| Cold forgings..... | 446 | Combined hoist & conveyor..... | 531 | Compressors, Corliss..... | 243 | Conductors & gutters, cy-press..... | 248 |
| Cold hammering machines..... | 631 | Combined pipe taps & drills..... | 1113 | Compressors, corn shock..... | 243 | Conductors' ticket punches..... | 924 |
| Cold japan paints..... | 810 | Combined punch & straightener..... | 923 | Compressors, gas..... | 243 | Conductors' & starters' whistles..... | 1196 |
| Cold pressed nuts..... | 794 | Combined shearing & brushing machines..... | 1129 | Compressors, gasoline..... | 243 | Conduit bushings..... | 178 |
| Cold pressed steel..... | 1071 | Combined shears & punches..... | 1038 | Compressors, steam..... | 243 | Conduit couplings..... | 290 |
| Cold process galvanizing..... | 460 | Combined vise & hand clamp..... | 225 | Compressors, water jet air..... | 243 | Conduit elbow former..... | 248 |
| Cold punched nut machines..... | 631 | Combs, circles & fallers..... | 1120 | Comptometers (see adding machines)..... | | Conduit hangers..... | 503 |
| Cold punched nuts..... | 794 | Combs, cotton..... | 1120 | Computing machines..... | 631 | Conduit joint wrappers..... | 1211 |
| Cold roll pointing machines, automatic..... | 631 | Combs, doffer..... | 1120 | Computing scales..... | 1019 | Conduit lock-nuts..... | 588 |
| Cold rolled shafting..... | 1034 | Combs, slasher..... | 1120 | Computing table, earth work..... | 335 | Conduit manhole tops (see manhole covers)..... | |
| Cold rolled steel..... | 1071 | Combs, weavers'..... | 1120 | Concave cutters (convex & concave)..... | 301 | Conduit pipe bending machines..... | 632 |
| Cold rolled strip steel..... | 1072 | Combs, wool..... | 1120 | Concave saws..... | 1018 | Conduit sealing plugs..... | 836 |
| Cold rolling machines..... | 631 | Comealongs or wire pullers..... | 240 | Concave & convex cutters..... | 301 | Conduit threading machine..... | 632 |
| Cold saw blades..... | 1015 | Common brick mfrs..... | 90 | Concave & convex gauges..... | 468 | Conduit wiring & cleaning rods..... | 948 |
| Cold saw cutting-off machines..... | 631 | Commutator bar copper..... | 278 | Concentration, ore..... | 798 | | |
| Cold saw sharpening machines..... | 631 | Commutator bars..... | 49 | Concentrating mills (see mills, stamp)..... | | | |
| Cold saws..... | 1018 | Commutator compounds..... | 241 | Concentrating plants..... | 243 | | |
| Cold storage doors..... | 318 | Commutator graphite..... | 490 | Concentrating tables..... | 1103 | | |
| Cold storage plant construction..... | 239 | Commutator refilling & armature rewinding..... | 35 | Concentrators, ammonia..... | 243 | | |
| Cold storage rooms (see refrigerators & cooling rooms)..... | | Commutator segments (see bars, commutator)..... | | Concentrators, ore..... | 244 | | |
| Cold storage tanks..... | 1105 | Commutator truing device..... | 240 | Concentrators, overstrom..... | 244 | | |
| | | Companion flanges..... | 443 | Concentrators, surface heating..... | 244 | | |
| | | Compass boards..... | 1120 | Concentric traveling cranes..... | 293 | | |
| | | Compasses..... | 240 | Concrete barrows, charging..... | 48 | | |
| | | Compellators..... | 1120 | | | | |

| | Page | | Page | | Page | | Page |
|--------------------------------|------|------------------------------------|------|-------------------------------|------|--------------------------------|------|
| Conduits | 248 | Contractors' dumping buck- | 271 | Cooking griddles, soapstone. | 277 | Copper rivets (brass & cop- | 945 |
| Cone bearings..... | 53 | cts | 271 | Cooking outfits & stoves, | 179 | Copper rods (brass & cop- | 947 |
| Cone grinders (cup, cone & | 493 | Contractors' harness | 515 | camp | 461 | Copper, roll | 278 |
| hub) | 911 | Contractors' hoisting engines. | 418 | Cooking stoves, gas heating | 277 | Copper roll engravers..... | 1122 |
| Cone pulleys | 1133 | Contractors' locomotives..... | 590 | Cooking utensils, pressed | 182 | Copper rolling mill machin- | 623 |
| Cone tubes (see cop tubes). | 248 | Contractors' machinery, new | 271 | steel | 277 | Copper rolling mills (brass & | 951 |
| Cone winders..... | 248 | & second hand..... | 834 | Coolers, beer | 277 | Copper, scrap | 278 |
| Cones, blacksmiths'..... | 248 | Contractors' paint spraying | 632 | Coolers, car journal..... | 277 | Copper screws (brass & cop- | 1027 |
| Cones, friction (see pulleys, | 248 | & sand blast machinery... | 819 | Coolers, clinker | 277 | Copper sheet | 278 |
| cone). | 248 | Contractors' picks | 834 | Coolers, water | 1160 | Copper, silicon | 1047 |
| Cones, logging..... | 498 | Contractors' plows | 271 | Coolers & tuyeres | 940 | Copper slitting saws..... | 1018 |
| Confectioners' hammers..... | 632 | Contractors' portable light.. | 271 | Cooling rooms & refriger- | 940 | Copper smelting equipments | 278 |
| Confectioners' machinery..... | 1095 | Contractors' portable railway | 271 | ators | 567 | Copper soldering bolts..... | 80 |
| Confectioners' stoves | 586 | Contractors' pumps for sew- | 916 | Cooling rooms & refriger- | 632 | Copper stills | 1079 |
| Connecting links | 632 | ers & foundations..... | 271 | ators, glass lined..... | 940 | Copper sulphate | 1105 |
| Connecting rod boring ma- | 622 | Contractors' railroad tents.. | 1115 | Cooling rooms & refrlger- | 567 | Copper tanks | 1203 |
| chines | 948 | Contractors' supplies, second | 271 | ators, tile lined..... | 945 | Copper telephone wire..... | 1143 |
| Connecting rod, locomotive, | 249 | hand | 1115 | Cooling rooms & refriger- | 1130 | Copper tubing (brass & cop- | 1157 |
| boring machines..... | 249 | Contractors' tents, railroad.. | 292 | ators, white wood lined.. | 1120 | Copper ware, stamped, | 278 |
| Connecting rods | 249 | Contractors' tools & supplies | 271 | Cooperage knives | 1120 | plated, etc. | 1183 |
| Connections, closet | 249 | Contractors' wagons (see | 271 | Cooperage machinery | 8 | Copper washers (brass & | 1183 |
| Connections, Siamese..... | 249 | wagons, dumping). | 271 | Coopers' hammers | 72 | Copper wire (brass & cop- | 1201 |
| Connections, slp joint..... | 249 | Controller regulators, electric | 940 | Coopers' hoop drives...278 & | 278 | Copper wire cables..... | 1201 |
| Connectors, electric tram.. | 249 | railway | 292 | Coopers' rivets | 1120 | Copper wire cloth..... | 1203 |
| Connectors, hose (see coup- | 249 | Controllers, arc deflectors for | 272 | Coopers' tools | 1133 | Copper work, dyers'..... | 1120 |
| lings, hose). | 249 | Controllers, crane | 272 | Cop skewers (see skewers). | 567 | Copper working machinery. | 632 |
| Connectors, traller..... | 249 | Controllers, draft (see regu- | 272 | Cop spindles | 51 | Copper & brass, sheet..... | 1203 |
| Connectors, trolley wire.... | 249 | lators, heat). | 272 | Cop tube machinery..... | 51 | Coppered wire | 53 |
| Connectors, wire, etc..... | 249 | Controllers, electric crane... 292 | 272 | Cop tubes, paper..... | 1055 | Coppers, Tillery canning... | 279 |
| Conning tower hoods..... | 535 | Controllers, electric elevator. | 272 | Cop tubes, tin..... | 279 | Coppersmiths | 279 |
| Conosera roofing tile..... | 998 | Controllers, electric motor.. | 272 | Cop winders..... | 79 | Copying apparatus | 818 |
| Construction, cement hollow | 211 | Controllers, electric pump... 272 | 272 | Cope cutter knives..... | 278 | Copying ink pencils..... | 904 |
| block | 233 | Controllers, electric speed... 272 | 272 | Coping machines | 816 | Copying presses | 1018 |
| Construction, coaling pier... | 463 | Controllers, elevator safety. | 368 | Copper alloys | 567 | Copying & manifold paper | 816 |
| Construction, gas works.... | 439 | Controllers, feed water (see | 273 | Copper angles, etc. (brass & | 2 | Cord adjusters | 1003 |
| Constructors, fire proof..... | 409 | regulators, feed water). | 273 | copper angles, etc.)..... | 1003 | Cord, sash | 1034 |
| Consulting engineers | 379 | Controllers, fire & flame, au- | 273 | Copper anodes | 1203 | Cord wire, picture..... | 1203 |
| Consulting engineers, archi- | 409 | tomatic | 273 | Copper bath tubs | 1018 | Cord wood sawing & split- | 567 |
| tectural & structural..... | 528 | Controllers, gas pressure... 273 | 273 | Copper bath tubs, double- | 279 | ting machines (see kin- | 279 |
| Consulting engineers, con- | 528 | Controllers, hoisting engine.. | 273 | seamed solid | 279 | dling machinery). | 1018 |
| crete construction..... | 1053 | Controllers, machine tool... 273 | 273 | Copper, battery (see battery | 279 | Cord wood splitter knives... | 567 |
| Consulting engineers, heat- | 182 | Controllers, mechanical speed | 273 | coppers). | 279 | Cordage, braided | 279 |
| ing & ventilating..... | 542 | Controllers, mill table..... | 273 | Copper boilers, range..... | 632 | Cordage machinery | 1132 |
| Consumers, smoke..... | 454 | Controllers, motor | 785 | Copper bolt & bar..... | 279 | Cordage & twine mfrs | 279 |
| Containers, carblde..... | 529 | Controllers, pump | 273 | Copper bolts (brass & cop- | 36 | Corded fibre asbestos..... | 279 |
| Continuous diagram indica- | 904 | Controllers, railway motor.. | 273 | per) | 279 | Cords, arc lamp & bell.... | 279 |
| tors | 929 | Controllers, reversible crane. | 273 | Copper bottoms | 279 | Cords, bell, round leather.. | 279 |
| Continuous furnaces..... | 951 | Controllers, rheostatic | 273 | Copper brass & bronze | 632 | Cords, coppr (tinsel & cop- | 279 |
| Continuous presses | 249 | Converter bottoms, brick.... | 273 | mouldings | 279 | per) | 279 |
| Continuous rail joints..... | 114 | Converters, Bessemer | 273 | Copper, brass & nickel sil- | 279 | Cords, flexible | 279 |
| Continuous rolling mills.... | 409 | Converters, copper | 273 | ver seamless tubing... | 279 | Cords, incandescent lamp.. | 279 |
| Contract blanks, architects' | 528 | Converters, electric | 273 | plumbers' | 279 | Cords, picture | 279 |
| & builders'..... | 528 | Converters, rotary | 273 | Copper, braziers' (see copper | 1003 | Cords, sash | 1003 |
| Contracting builders..... | 409 | Convex & concave cutters... 301 | 273 | bottoms). | 1131 | Cords, tapes & braids..... | 1131 |
| Contracting engineers..... | 528 | Conveying pipe | 1120 | Copper brushes | 279 | Cords, telephone & switch- | 279 |
| Contracting heating & venti- | 528 | Conveying telpherage, elec- | 1115 | Copper burr mfrs. (see riv- | 279 | board | 279 |
| lating engineers..... | 528 | tric | 1115 | ets, brass & copper). | 279 | Cords, tinsel & copper..... | 279 |
| Contractors, artificial stone | 249 | Conveying & elevating ma- | 637 | Copper cable lightning rods. | 279 | Cords, trolley, arc lamp, etc. | 279 |
| (see cement & concrete | 249 | chinery | 61 | Copper castings | 101 | Corduroy brlck mfrs..... | 1120 |
| pavements). | 249 | Conveyor belting mfrs..... | 586 | Copper chains | 799 | Corduroy cutting machines. | 633 |
| Contractors, asphalt paving. | 251 | Conveyor chain links..... | 273 | Copper clad steel..... | 84 | Core baking ovens..... | 633 |
| Contractors, brick work (see | 251 | Conveyor troughs | 273 | Copper colls | 241 | Core box cutting machines.. | 279 |
| builders, contracting). | 251 | Conveyors, apron | 273 | Copper converters | 279 | Core boxes, for foundry use | 279 |
| Contractors, building..... | 251 | Conveyors, automatic power. | 273 | Copper converting machin- | 279 | Core compounds | 323 |
| Contractors, cut stone (see | 251 | Conveyors, belt | 273 | ery | 279 | Core drills | 669 |
| stone producers, etc.). | 251 | Conveyors, brick | 273 | Copper cords (tinsel & cop- | 633 | Core making machines..... | 633 |
| Contractors, dredging..... | 251 | Conveyors, cable (see con- | 273 | per) | 185 | Core ovs | 797 |
| Contractors, electric railway | 252 | veyors, wire cable). | 273 | Copper cornices (see cor- | 318 | Core oven cars..... | 318 |
| Contractors, electric subway. | 252 | Conveyors, chain | 274 | nices, galvanized iron). | 1154 | Core oven trucks..... | 799 |
| Contractors, electrical..... | 352 | Conveyors, clay | 274 | Copper covered doors..... | 799 | Core-ovens | 830 |
| Contractors, electrical (engi- | 352 | Conveyors, clinker | 274 | Copper dealers, sheet (see | 633 | Core tapering machines... | 279 |
| neers & contractors)..... | 352 | Conveyors, coal & ash han- | 274 | tin plate, metals, etc.). | 279 | Corers, apple | 279 |
| Contractors, general | 252 | dling | 274 | Copper, dynamo brush..... | 279 | Corers, cabbage | 279 |
| Contractors, granite building | 485 | Conveyors, corn & corn cob | 274 | Copper ferrules | 279 | Cores, armature & magnet.. | 1114 |
| work | 485 | Conveyors, fertilizer | 274 | Copper fire box sheets..... | 280 | Cores, telephone magnet... | 280 |
| Contractors, heating, steam | 524 | Conveyors, flour | 275 | Copper floats | 280 | Cork carpets | 280 |
| & hot water | 269 | Conveyors, freight | 275 | Copper for commutator bars | 280 | Cork chips | 280 |
| Contractors, heavy masonry | 418 | Conveyors, grain elevator... | 275 | Copper forgings | 280 | Cork covering mfrs..... | 633 |
| Contractors' hoisting en- | 418 | Conveyors, gravel & sand.. | 275 | Copper froes, solid steel.... | 280 | Cork cutting machinery.... | 280 |
| gines | 269 | Conveyors, gravity | 275 | Copper gaskets | 280 | Cork, granulated, for insula- | 280 |
| Contractors, paint spraying. | 269 | Conveyors, gravity, spiral.. | 275 | Copper gaskets, corrugated. | 280 | Cork knives | 633 |
| by compressed air..... | 269 | Conveyors, hot metal..... | 275 | Copper hammers | 280 | Cork machinery | 280 |
| Contractors' paint spraying & | 632 | Conveyors, ice (see ice han- | 275 | Copper ingots (brass & cop- | 280 | Cork mfrs..... | 280 |
| sand blast machinery..... | 632 | dling machinery). | 275 | per) | 280 | | |
| Contractors, paving..... | 269 | Conveyors, link belt..... | 275 | Copper mouldings..... | 280 | | |
| Contractors, pile driving.... | 820 | Conveyors, log | 276 | Copper moulds | 280 | | |
| Contractors, railroad | 269 | Conveyors, mail bag (ele- | 374 | Copper nails (brass & cop- | 280 | | |
| Contractors, reinforced con- | 271 | vators & conveyors)..... | 276 | per) | 280 | | |
| crete | 271 | Conveyors, pan | 1120 | Copper nuts (brass & copper) | 280 | | |
| Contractors, sewer..... | 271 | Conveyors, pneumatic | 1097 | Copperoid | 280 | | |
| Contractors, steel or wood | 226 | Conveyors, ribbon scroll.... | 276 | Copper ores, mattes & bul- | 280 | | |
| sheet piling | 271 | Conveyors, rock & ore..... | 276 | lion | 280 | | |
| Contractors, street railway.. | 271 | Conveyors, rolling mill.... | 276 | Copper pails | 280 | | |
| Contractors, structural iron | 271 | Conveyors, saw dust..... | 276 | Copper paints | 280 | | |
| (see steel structural work). | 271 | Conveyors, scraper | 276 | Copper phosphor | 280 | | |
| Contractors, water works.... | 271 | Conveyors, spiral | 276 | Copper, pig | 280 | | |
| Contractors, well, artesian & | 1190 | Conveyors, trench excavat- | 277 | Copper pipe & bends..... | 280 | | |
| driven | 271 | ing | 1120 | Copper plating of iron.... | 280 | | |
| Contractors & builders..... | 271 | Conveyors, waste end..... | 277 | Copper, polished | 280 | | |
| Contractors' barrows (see | 113 | Conveyors, wire cable | 277 | Copper printing rollers.... | 280 | | |
| wheelbarrows). | 113 | Cookers, apple | 277 | Copper printing rolls | 280 | | |
| Contractors' bonds (see in- | 113 | Cookers, feed | 277 | Copper pumps | 280 | | |
| surance, indemnity bond). | 113 | Cooking apparatus | 277 | Copper range boilers | 280 | | |
| Contractors' concrete buckets | 113 | Cooking apparatus, electric. | 277 | Copper refiners | 280 | | |

| | Page | | Page | | Page | | Page |
|-----------------------------------|------|--------------------------------|-------------|----------------------------------|------|--------------------------------|------|
| Cork pipe & boiler coverings..... | 824 | Corset machinery | 633 | Coupler forgings, automatic..... | 446 | Cranes, electric traveling.... | 293 |
| Cork puller & recorker..... | 910 | Corundum mfrs..... | 374 | Couplers, car..... | 289 | Cranes, forge | 293 |
| Cork pullers..... | 910 | Corundum wheels (alundum | 9 | Couplers, shaft & pole..... | 290 | Cranes, foundry, portable... | 293 |
| Cork roofing | 993 | & corundum) | 9 | Coupling bars | 50 | Cranes, gantry | 293 |
| Cork-screws | 280 | Corundum & emery wheel | 375 | Coupling bending machines..... | 633 | Cranes, hand power..... | 293 |
| Cork sticking machines..... | 633 | mfrs | 375 | Coupling bolts | 80 | Cranes, hydraulic | 294 |
| Cork tile | 1136 | Corundum & emery wheels | 375 | Coupling boxes for feeder | 85 | Cranes, jib | 294 |
| Corking machines, bench & | | with safety collars..... | 375 | cables | 85 | Cranes, jib, electric walking | 294 |
| upright | 633 | Cots, army, etc..... | 288 | Coupling expanding ma- | | Cranes, jib, walking..... | 294 |
| Corking machines, preserves | 633 | Cotter drilling machines..... | 636 | chines | 633 | Cranes, ladle | 294 |
| Corliss compressors..... | 243 | Cotter drills | 323 | Coupling links & pins..... | 586 | Cranes, locomotive | 294 |
| Corliss engines | 412 | Cotter mills | 778 | Coupling rolling machines..... | 633 | Cranes, locomotive bucket... | 295 |
| Corn binders & harvesters... | 280 | Cotter pin machinery..... | 633 | Coupling tapping machines..... | 633 | Cranes, locomotive water... | 295 |
| Corn cleaners | 229 | Cotters, cellar box..... | 288 | Couplings, air hose (see | | Cranes, logging | 295 |
| Corn cob conveyors..... | 274 | Cotters, spring | 288 | pneumatic hose couplings). | | Cranes, machine shop..... | 295 |
| Corn cultivators (bean & | | Cotton bale shears..... | 1037 | Couplings, angle | 290 | Cranes, mail | 295 |
| corn) | 299 | Cotton bandings | 1120 | Couplings, bell cord..... | 290 | Cranes, pillar | 295 |
| Corn cutter knives (hay & | | Cotton bat presses..... | 904 | Couplings, boiler | 290 | Cranes, pneumatic | 295 |
| corn) | 568 | Cotton batting machinery..... | 1120 | Couplings, clamp | 290 | Cranes, portable | 295 |
| Corn cutters | 301 | Cotton belting mfrs., solid. | 62 | Couplings, closet | 290 | Cranes, riveting | 295 |
| Corn cutting machines..... | 633 | Cotton, calking & gun..... | 289 | Couplings, clutch | 290 | Cranes, rope driven, travel- | |
| Corn hand planters..... | 826 | Cotton cans | 1118 | Couplings, compression | 290 | ing | 295 |
| Corn harvester knives..... | 567 | Cotton cards | 1119 | Couplings, conduit | 290 | Cranes, top braced..... | 295 |
| Corn harvesters..... | 516 | Cotton combs | 1120 | Couplings, conduit rod..... | 290 | Cranes, tower riveting.... | 295 |
| Corn hooks..... | 536 | Cotton compresses | 289 | Couplings, cut-off..... | 290 | Cranes, transfer | 295 |
| Corn hoppers, wire..... | 280 | Cotton cord cutting ma- | | Couplings, expansion..... | 290 | Cranes, transfer & transfer | |
| Corn huskers & shredders... | 541 | chines | 1120 | Couplings, flange..... | 290 | tables | 295 |
| Corn husking goods..... | 280 | Cotton drawing frames..... | 1123 | Couplings, flexible..... | 290 | Cranes, traveling | 295 |
| Corn mill machinery..... | 633 | Cotton dressers | 1121 | Couplings, friction clutch... | 290 | Cranes, traveling, electric.. | 293 |
| Corn mill scalpels..... | 1022 | Cotton dryers | 1121 | Couplings, hose | 290 | Cranes, truck | 295 |
| Corn mills | 778 | Cotton duck looms..... | 1126 | Couplings, hose, pneumatic.. | 897 | Cranes, warehouse, portable | 296 |
| Corn mixing machines..... | 633 | Cotton duck & canvas..... | 289 | Couplings, insulated | 291 | Cranes, water, for sprin- | |
| Corn oil | 795 | Cotton elevators | 369 & 1122 | Couplings, lead flange..... | 291 | kling wagons | 296 |
| Corn oil machinery..... | 633 | Cotton felting machines..... | 1122 | Couplings, lead pipe..... | 291 | Cranes, wrecking | 296 |
| Corn oil mills..... | 778 | Cotton-filled pickers..... | 1127 | Couplings, pipe | 291 | Crank boring machines..... | 633 |
| Corn pickers & huskers..... | 819 | Cotton fly frames..... | 1123 | Couplings, pipe for gas | | Crank indexes | 296 |
| Corn planters | 826 | Cotton ginning machinery... | 633 | main | 291 | Crank pin presses | 904 |
| Corn planting drills..... | 323 | Cotton, gun | 498 | Couplings, pneumatic hose... | 897 | Crank pin presses, hydrau- | |
| Corn planting, hand..... | 826 | Cotton hooks | 536 | Couplings, rod | 291 | lic | 906 |
| Corn plows | 834 | Cotton hose | 538 | Couplings, shaft | 291 | Crank pin turning machines | 633 |
| Corn poppers..... | 901 | Cotton looms | 1125 | Couplings, sucker rod..... | 291 | Crank shaft turning lathes. | 577 |
| Corn shellers..... | 1039 | Cotton machinery | 1120 | Couplings, swivel | 291 | Crank turning device..... | 296 |
| Corn shock compressors.... | 243 | Cotton machinery stirrups | | Couplings, water back..... | 291 | Cranks, ball | 296 |
| Corn shockers | 1042 | & levers | 1131 | Couplings & fittings, lead | | Cranks, milling machine.... | 296 |
| Corn silking machines..... | 633 | Cotton mill builders..... | 175 | pipe | 581 | Crankshafts | 296 |
| Corn splitting machines..... | 633 | Cotton mill tramways & | | Covered cables, lead..... | 178 | Crankshafts, automobile ... | 296 |
| Corn threshers | 1134 | pulley blocks..... | 1149 | Coverers, roll | 1128 | Crankshafts, gas engine ... | 296 |
| Corn & corn cob conveyors.. | 274 | Cotton mops | 783 | Coverers & hillers, potato... | 902 | Crankshafts, loom | 1125 |
| Corner bands for cars..... | 280 | Cotton mules | 1126 | Covering, cork | 280 | Crate machinery | 633 |
| Corner, base & head block | | Cotton openers & lappers... | 1127 | Covering machines, book... | 621 | Crate slat cutting machines | 633 |
| mfrs. | 280 | Cotton pickers | 1127 | Covering machines, paper | | Crate straps | 1096 |
| Corner beads, plasterers' | | Cotton planters | 826 | box | 650 | Crate & basket hooks..... | 536 |
| steel | 829 | Cotton planting drills..... | 324 | Covering machines, roller... | 1128 | Crayon mfrs. | 296 |
| Corner cutting machines..... | 633 | Cotton presses | 904 | Covering mfrs., pipe & | | Crayon moulding machinery | 633 |
| Corner posts & transom bars | 280 | Cotton remnants | 942 | boiler | 823 | Crayons, colored | 296 |
| Corner staying machines... | 633 | Cotton rope | 999 | Coverings, column | 240 | Crayons, mill | 296 |
| Corner stone boxes..... | 84 | Cotton scrapers | 1023 | Coverings, pulley | 910 | Crayons, school | 296 |
| Corner valves | 1165 | Cotton seed hull presses.... | 904 | Coverings, wall | 1182 | Crayons & pencils, metal | |
| Corner & brace irons..... | 561 | Cotton seed huller knives... | 567 | Coverings, wall, imported... | 1183 | workers' | 296 |
| Corners, box..... | 280 | Cotton seed hullers..... | 541 | Covers, battery jar..... | 291 | Cream separators | 1030 |
| Corners, casket..... | 280 | Cotton seed oil machinery... | 633 | Covers, catch basin..... | 291 | Creamery apparatus & sup- | |
| Corners, partition | 280 | Cotton seed oil presses.... | 904 | Covers, coal hole..... | 233 | plies | 296 |
| Corners, stair..... | 1063 | Cotton seed separators..... | 1030 | Covers, graphite (boxes & | | Creamery machinery | 633 |
| Cornice brakes..... | 280 | Cotton shear knives..... | 567 | covers) | 490 | Creamery pumps | 916 |
| Cornice copper mfrs. (see | | Cotton sleeving | 1053 | Covers, laundry tub..... | 580 | Creamery testers | 1116 |
| copper & brass sheet). | | Cotton softeners | 1055 & 1120 | Covers, manhole | 745 | Creamery trucks..... | 1154 |
| Cornice hooks | 536 | Cotton spoolers | 1131 | Covers, nut | 292 | Creasing machines | 634 |
| Cornice makers' machinery.. | 633 | Cotton stitched belting (see | | Covers, oil hole | 796 | Creels | 1120 |
| Cornice presses..... | 904 | belting, canvas stitched). | | Covers, safety, coal hole... | 233 | Creels, dresser..... | 1121 |
| Cornices, galvanized iron, | | Cotton thread machinery | | Covers, sewer manhole..... | 1033 | Creepers, anti-rail | 296 |
| etc. | 280 | (see thread machinery). | | Covers, wagon | 1113 | Creosote oils | 797 |
| Cornish pumps | 916 | Cotton tie varnishers..... | 1174 | Covering machines, roller... | 1128 | Creosote, shingle stains.... | 1040 |
| Corporation cock inserting | | Cotton ties | 1135 | Coverings, column | 240 | Creosoted bridge timbers... | 109 |
| machines | 633 | Cotton tubing | 1157 | Coverings, pipe (see pipe & | | Creosoted lumber (see creo- | |
| Corporation cocks | 234 | Cotton twisters | 1132 | boiler coverings). | | soting works). | |
| Corrugated arches (see awn- | | Cotton waste machines..... | 1132 | Coverings, wall | 1182 | Creosoting cylinders..... | 304 |
| ings, corrugated steel). | | Cotton waste mfrs..... | 1185 | Covert patent fire escapes... | 437 | Creosoting tanks & cylinders. | 1105 |
| Corrugated bottle wrappers.. | 84 | Cotton waste pockets..... | 900 | Cow bells | 56 | Creosoting works | 296 |
| Corrugated copper gaskets... | 465 | Cotton webbing | 1132 & 1189 | Cow tie chains..... | 218 | Crestings, terra cotta (see | |
| Corrugated elbows..... | 288 | Cotton & box hooks..... | 536 | Crabbing machines | 1120 | roofing tile, terra cotta). | |
| Corrugated furnaces..... | 454 | Cotton & wool scales..... | 1020 | Crabs, hoisting | 292 | Crestings & finials..... | 296 |
| Corrugated grinding wheels.. | 1193 | Coulters, plow | 833 | Cracker & biscuit machinery | 633 | Crestings & finials, sheet | |
| Corrugated iron gaskets, | | Coulters, rolling, for plows.. | 289 | Crackers & picks, nut..... | 793 | metal | 297 |
| "Smooth On" | 465 | Counter display baskets.... | 50 | Cradles, grain | 292 | Cribbage boards | 297 |
| Corrugated iron roofing, as- | | Counter legs | 582 | Crane cars (derrick or | | crimping machines (blind | |
| bestos coated..... | 993 | Counter scales | 1020 | crane) | 186 | slat) | 621 |
| Corrugated iron & steel | | Counter supports | 289 | Crane chains | 218 | Crimping machines for tops | |
| mfrs. | 559 | Counter weights | 1190 | Crane controllers, electric... | 292 | on tooth powder boxes... | 634 |
| Corrugated nails | 789 | Counterbores | 289 | Crane controllers, reversible | 273 | Crimping rolls | 954 |
| Corrugated paper mfrs..... | 816 | Counters, revolution (see in- | | Crane hydrants | 541 | Crimping & beading ma- | |
| Corrugated sheathing, rein- | | dicators, speed). | | Crane ladles | 571 | chines | 634 |
| forced asbestos | 36 | Counters, spindle speed.... | 1120 | Crane limit stops | 1092 | Critchlow valves | 1165 |
| Corrugated steel awnings... | 42 | Countershafts | 289 | Crane motors, electric | 786 | Crochet machine needles... | 1127 |
| Corrugated steel ceilings... | 207 | Countershafts, variable | | Crane or suspended scales. | 1020 | Crochet machines, red blan- | |
| Corrugated steel fasteners... | 429 | speed | 289 | Cranes | 292 | ket | 1121 |
| Corrugated tender hose..... | 538 | Countersink bits | 64 | Cranes, air (see cranes, | | Crocheting machinery | 1121 |
| Corrugated tubes | 1156 | Countersinking & drilling | | pneumatic). | | Crockery floats | 444 |
| Corrugated wrought brass | | machines | 636 | Cranes, automobile, portable | 292 | Crocodile shears | 1037 |
| hinges | 531 | Countersinks | 289 | Cranes, cantilever | 292 | Crocodile wrenches | 1212 |
| Corrugating machines | 633 | Countersinks & center drills, | | Cranes, charging & drawing | 292 | Cross-arm bolts | 80 |
| Corrugating & crimping | | combined | 289 | Cranes, concentric traveling | 293 | Cross-arm braces | 87 |
| rolls | 954 | Countersunk bolts | 80 | Cranes, derrick | 293 | Cross-arm machinery (insu- | |
| Corrugating & grinding, roll. | 949 | Countersunk spikes..... | 1057 | Cranes, dock | 293 | lator pin, etc.)..... | 644 |
| Corrugating & grinding | | Counting machines..... | 633 | Cranes, electric locomotive. | 293 | Cross-arm supports..... | 1099 |
| rolls | 955 | Counting & printing wheels. | 1193 | | | | |

| Page | Page | Page | Page |
|--|------------|---|------------|
| Cross-arms, brackets, etc., steel | 297 | Cups, oil & grease (see lubricators). | |
| Cross-arms, brackets & pins, wood | 297 | Cups, plumbers' soil | 299 |
| Cross-arms, creosoted (see creosoting works). | | Cups, priming | 299 |
| Cross cut sawing machines. | 634 | Cups, traveler | 1131 |
| Cross cut saws | 1018 | Curb boxes | 84 |
| Cross head pin oilers | 796 | Curb cocks | 234 |
| Cross head pin turning machines | 634 | Curb, concrete, steel bound. | 244 |
| Cross-over dumps, automatic | 334 | Curbing stone | 1082 |
| Cross-over fittings | 442 | Curbs, valve | 299 |
| Cross tie tongs | 1141 | Curd knives | 567 |
| Cross ties (see ties, poles & posts). | | Curled hair | 498 |
| Crosses, church | 225 | Curled hair machinery | 634 |
| Crosses, pipe fitting | 297 | Curling irons | 561 |
| Crossing gates, railway | 467 | Curriers' tools (tanners' & curriers') | 1146 |
| Crossings, frogs, switches, etc. | 453 | Curry combs | 299 |
| Crossings, railway | 297 | Curtain fasteners | 429 |
| Crow bar mfrs. | 297 | Curtain frame clamps | 226 |
| Crown-bar bolts | 80 | Curtain looms | 1126 |
| Crozing & chamfering machines | 628 | Curtain pole brackets | 87 |
| Crucible furnaces | 454 | Curtain pole machines | 634 |
| Crucible mfrs. | 297 | Curtain pole sanding & finishing machines | 634 |
| Crucible tongs | 1141 | Curtain poles | 900 |
| Crude magnesite | 744 | Curtain rods | 948 |
| Crucibles, brazing | 297 | Curtains, lac | 181 |
| Crucibles, graphite | 297 | Curtains, locomotive cab | 299 |
| Crucibles, steel | 297 | Curtains, rubber, bath | 299 |
| Crude asbestos | 36 | Curtains, steel rolling | 299 |
| Crushed flint | 444 | Curtains, theatre, asbestos | 1133 |
| Crushed granite (see stone, crushed). | | Curtains, theatre, steel | 1133 |
| Crushed lime (ground & crushed) | 584 | Curtains & materials, car | 181 |
| Crushed slag (see slag for roofing & paving). | | Curves, railroad | 929 |
| Crushed steel for polishing granite, etc. | 297 | Cushioned tires | 1140 |
| Crushed stone | 1080 | Cushions, air, saw mill carriage | 7 |
| Crusher castings, rock | 204 | Cushions, billiard & pool table | 300 |
| Crusher parts | 298 | Cushions, elevator air | 366 |
| Crusher parts & repairs, stone | 298 & 1082 | Cushions, rubber (bumpers & cushions) | 999 |
| Crusher plates | 830 | Cushions, telephone, pneumatic | 1114 |
| Crusher roll teeth | 1113 | Cuspidors | 300 |
| Crushers, asphalt | 37 | Cut gears | 471 |
| Crushers, clay | 298 | Cut markers | 1121 |
| Crushers, coal | 298 | Cut meters (see tachometers). | |
| Crushers, coke | 298 | Cut nails | 789 |
| Crushers, corn & cob (see mills, corn & cob). | | Cut-off couplings | 290 |
| Crushers, jaw | 298 | Cut-off machines (see cutting-off machines). | |
| Crushers, rock & ore | 946 | Cut-off saws, band | 1017 |
| Crushers, spindle | 298 | Cut-off wood saws | 1018 |
| Crushers, stone (see rock & ore crushers). | | Cut-out bases, battery | 50 |
| Crushers, sugar cane (see mills, sugar cane). | | Cut-outs | 300 |
| Crushers & pulverizers, asphalt | 37 | Cut racks | 927 |
| Crushing mortars | 783 | Cut spikes | 1057 |
| Crushing rolls | 955 | Cutlery machinery | 634 |
| Crushing & mining machinery, portable | 648 | Cutlery mfrs. | 300 |
| Crushing & screening plants, coal & coke | 233 | Cutlery polish | 900 |
| Crushing & stemming machines, grape | 641 | Cutlery polishing machines | 634 |
| Cryolite | 298 | Cutter, chaplet pointer & rod | 221 |
| Crystalizers | 1098 | Cutter grinders (reamer & cutters) | 495 |
| Crystal lead & colored glass | 475 | Cutter heads | 518 |
| Cube importers, mosaic | 783 | Cutter shoes | 1042 |
| Cube sugar apparatus | 1098 | Cutter sticks | 1079 |
| Cubers, ice | 643 | Cutters, angular | 300 |
| Cuff machinery (collar & cuff) | 631 | Cutters, automatic peg & lace hole | 1121 |
| Cuff machines, flat ribbed | 1121 | Cutters, axle | 301 |
| Cultivator attachments | 298 | Cutters, belt (see belt cutting machines). | |
| Cultivator points | 900 | Cutters, boiler tube (see cutters, tube). | |
| Cultivator shovels | 1043 | Cutters, bolt | 301 |
| Cultivator springs | 1060 | Cutters, bone | 301 |
| Cultivator teeth | 1113 | Cutters, bread | 301 |
| Cultivators | 298 | Cutters, brick & drain tile | 301 |
| Cultivators, bean & corn | 299 | Cutters, button hole | 301 |
| Cultivators, beet | 299 | Cutters, carpet | 1121 |
| Cultivators, garden | 299 | Cutters, cast iron pipe | 301 |
| Cup, cone & hub grinders | 493 | Cutters, chenille | 1121 |
| Cupel machines | 634 | Cutters, cigar | 301 |
| Cupboard catches | 207 | Cutters, cloth | 1121 |
| Cupboard latches | 575 | Cutters, coconut | 301 |
| Cup grinders | 493 | Cutters, collarette | 1121 |
| Cupola linings or blocks | 299 | Cutters, convex & concave | 301 |
| Cupolas, foundry | 299 | Cutters, corn | 301 |
| Cups, dynamo oil | 334 | Cutters, electric wire | 301 |
| Cups, elevator | 299 | Cutters, ensilage | 301 |
| Cups, force, rubber | 299 | Cutters, face milling | 301 |
| Cups, leather | 299 | Cutters, feed | 301 |
| Cups, oil hole (covers & cups) | 796 | Cutters, fillet leather | 301 |
| | | Cutters, flock | 1121 |
| | | Cutters, flue | 301 |
| | | Cutters, fodder | 301 |
| | | Cutters, formed & formed milling | 301 |
| | | Cutters, gang | 301 |
| | | Cutters, gauge glass | 301 |
| | | Cutters, gear (see gear cutting machines). | |
| | | Cutters, glass | 301 |
| | | Cutters, glass (artists) | 475 |
| | | Cutters, glass (tools) | 301 |
| | | Cutters, glass tube (see cutters, gauge glass). | |
| | | Cutters, gummer | 302 |
| | | Cutters, gusset | 1121 |
| | | Cutters, hand hole | 302 |
| | | Cutters, hog nose | 302 |
| | | Cutters, inserted teeth | 302 |
| | | Cutters, interlocking | 302 |
| | | Cutters, involute | 302 |
| | | Cutters, iron bar & rod | 302 |
| | | Cutters, key-seating | 302 |
| | | Cutters, key-way (see key-seating machines). | |
| | | Cutters, knit fabrics | 1121 |
| | | Cutters, kraut | 302 |
| | | Cutters, lace leather | 302 |
| | | Cutters, lead pipe | 302 |
| | | Cutters, metal slitting | 302 |
| | | Cutters, milling | 302 |
| | | Cutters, moulding | 302 |
| | | Cutters, paper (see paper cutting machines). | |
| | | Cutters, pinion | 302 |
| | | Cutters, pipe | 302 |
| | | Cutters, plush | 1121 |
| | | Cutters, pneumatic | 302 |
| | | Cutters, pneumatic flue | 896 |
| | | Cutters, pneumatic stay-bolt | 899 |
| | | Cutters, rack | 302 |
| | | Cutters, radials | 302 |
| | | Cutters, rag | 1121 |
| | | Cutters, rib | 1121 |
| | | Cutters, rod & wire | 303 |
| | | Cutters, roll paper | 303 |
| | | Cutters, root | 303 |
| | | Cutters, screw slotting | 303 |
| | | Cutters, segment | 303 |
| | | Cutters, serrated (knives & cutters) | 570 |
| | | Cutters, sheet metal | 303 |
| | | Cutters, side milling | 303 |
| | | Cutters, solder | 303 |
| | | Cutters, spiral mill | 303 |
| | | Cutters, sprocket | 303 |
| | | Cutters, sprue | 303 |
| | | Cutters, sprue, foot or power | 303 |
| | | Cutters, stalk | 303 |
| | | Cutters, stay-bolt | 303 |
| | | Cutters, stocking | 303 |
| | | Cutters, T. slot | 303 |
| | | Cutters, tap & reamer | 303 |
| | | Cutters, tobacco counter | 303 |
| | | Cutters, tube | 303 |
| | | Cutters, twist drill | 304 |
| | | Cutters, vegetable | 304 |
| | | Cutters, velvet | 1121 |
| | | Cutters, veneer (see veneer cutting machines). | |
| | | Cutters, vises | 1179 |
| | | Cutters, washer & gasket | 304 |
| | | Cutters, wire (rod & wire) | 303 |
| | | Cutters, worm wheel | 304 |
| | | Cutting apparatus for harvesters & mowers | 304 |
| | | Cutting benches | 62 |
| | | Cutting dies | 311 |
| | | Cutting dies, glove (see glove machinery). | |
| | | Cutting dies, screw | 312 |
| | | Cutting dies, thread | 312 |
| | | Cutting machines, belt | 620 |
| | | Cutting machines, box, hand hole | 622 |
| | | Cutting machines, brick | 623 |
| | | Cutting machines, cloth | 1119 |
| | | Cutting machines, coal | 629 |
| | | Cutting machines for fabrics | 634 |
| | | Cutting machines, gear | 640 |
| | | Cutting machines, granite column | 641 |
| | | Cutting machines, hand hole | 642 |
| | | Cutting machines, insulating tape | 1111 |
| | | Cutting machines, paper | 651 |
| | | Cutting machines, ribbon | 943 |
| | | Cutting machines, shade cloth | 1034 |
| | | Cutting machines, rubber band | 660 |
| | | Cutting machines, stone | 667 |
| | | Cutting machines, strip metal (straightening & cutting) | 668 |
| | | Cutting machines, surgeons' bandage | 620 |
| | | Cutting machines, veneer | 671 |
| | | Cutting machines, washer | 671 |
| | | Cutting machines, wire (straightening & cutting) | 673 |
| | | Cutting nippers | 792 |
| | | Cutting-off lathes | 577 |
| | | Cutting-off machines, cold saw | 631 |
| | | Cutting-off machines, log | 645 |
| | | Cutting-off machines, metal | 646 |
| | | Cutting-off machines, wood | 674 |
| | | Cutting-off tools | 1143 |
| | | Cutting-off & centering machines, axle | 619 |
| | | Cutting presses (see presses, power). | |
| | | Cutting & folding machines, rib | 1128 |
| | | Cutting & punching machines | 634 |
| | | Cutting & polishing oils | 797 |
| | | Cutting & threading machines, pipe | 653 |
| | | Cyanide | 304 |
| | | Cyanide barrels | 48 |
| | | Cyanide mills | 778 |
| | | Cyanide plants | 304 |
| | | Cyanide tanks | 1105 |
| | | Cycle hangers | 503 |
| | | Cycle oils | 797 |
| | | Cycles, motor | 785 |
| | | Cycles, railway (see cars, velocipede). | |
| | | Cycloidal blowers | 68 |
| | | Cyclometers (see indicators, speed). | |
| | | Cyclone blowers | 68 |
| | | Cylinder boring machines | 634 |
| | | Cylinder boring machines, automobile | 619 |
| | | Cylinder chucks | 224 |
| | | Cylinder cocks | 235 |
| | | Cylinder cocks, locomotive | 235 |
| | | Cylinder cocks, pneumatic | 236 |
| | | Cylinder drain valves | 1165 |
| | | Cylinder facing machines | 634 |
| | | Cylinder molds | 782 |
| | | Cylinder oils | 797 |
| | | Cylinder paper & fourdrinier machines | 640 |
| | | Cylinder re-boring | 304 |
| | | Cylinder saws | 1018 |
| | | Cylinder & tank shells | 304 |
| | | Cylinder & tank steel sheets | 1074 |
| | | Cylinders, ammonia | 304 |
| | | Cylinders, artesian well | 304 |
| | | Cylinders, calsson | 304 |
| | | Cylinders, calcium light | 304 |
| | | Cylinders, carbon | 304 |
| | | Cylinders, carbonic acid gas | 304 |
| | | Cylinders, cast iron | 304 |
| | | Cylinders, cement | 1110 |
| | | Cylinders, compress | 304 |
| | | Cylinders, creosoting | 304 & 1110 |
| | | Cylinders, gasoline engine | 304 |
| | | Cylinders, glass | 475 |
| | | Cylinders, hardening | 304 |
| | | Cylinders, hydraulic | 304 |
| | | Cylinders, hydrogen & oxygen | 304 |
| | | Cylinders, knitting machine | 1121 |
| | | Cylinders, rock drill | 304 |
| | | Cylinders, rotary drying | 304 |
| | | Cylinders, slasher | 1121 |
| | | Cylinders, spinning | 1121 |
| | | Cylinders, tin | 1121 |
| | | Cylinders, water jacketed | 304 |
| | | Cylinders & dials, forged steel | 1121 |
| | | Cylinders & dials, knitting machine | 1121 |
| | | Cylinders & shells, seamless pressed steel | 304 |
| | | Cylinders & tanks, cement | 1110 |
| | | Cylinders & tanks, seamless | 304 |
| | | Cylindrical gauges | 468 |
| | | Cylindrical glasses | 482 |
| | | Cylindrical screens | 1024 |
| | | Cylindrical tanks | 1106 |
| | | Cypress conductors & gutters | 248 |
| | | Cypress doors, wholesale | 318 |
| | | Cypress lumber mfrs. | 596 |
| | | Cypress mouldings | 787 |
| | | Cypress pickets | 819 |
| | | Cypress shingles | 1040 |
| | | Cypress vats | 1175 |

D

| | |
|--|------|
| Dado heads | 518 |
| Dado machines | 634 |
| Dairy apparatus & supplies | 305 |
| Dairy pails | 805 |
| Dairy scales | 1020 |
| Damp course | 305 |
| Damp-proofing paint machines, compressed air | 634 |
| Damp resisting compounds | 241 |
| Damp resisting paints | 810 |

| | Page | | Page | | Page | | Page |
|---|------|---|------|--|------|--|------|
| Dampener, spring | 1058 | Desk fans | 428 | Dies, rubber | 312 | Ditch drainage excavating machinery | 638 |
| Dampening machines..... | 1121 | Desk lamps, electric | 573 | Dies, screw cutting..... | 312 | Ditcher, grader & loader, combined | 314 |
| Dampening machines, collar seam | 631 | Desk mfrs. | 309 | Dies, screw plate..... | 312 | Ditching machines | 635 |
| Damper clips | 230 | Desk rulers | 1000 | Dies, self opening..... | 312 | Ditching machines, farm land | 638 |
| Damper regulators | 940 | Desk slides | 310 | Dies, sheet metal (stamps & dies) | 1065 | Ditching machines, railroad | 635 |
| Dampers, coke oven..... | 305 | Desk telephone brackets.... | 87 | Dies, solid | 312 | Ditching machines, tile..... | 669 |
| Dampers, fireplace, etc..... | 305 | Desks, metallic (see bank & office fixtures, metallic). | | Dies, solid bolt..... | 312 | Ditching machines, traction | 635 |
| Dampers, forced draft..... | 305 | Despatch tubes, pneumatic. 896 | | Dies, spring or prong..... | 312 | Ditching plows | 834 |
| Dampers, pipe..... | 305 | Destroyers, ticket (choppers & destroyers) | 1134 | Dies, stamping..... | 312 | Divers, submarine..... | 314 |
| Dandy rolls | 955 | Detachable link belting (see belting mfrs., chain or link). | | Dies, stamp mill..... | 1042 | Divided steel machine rules..... | 1000 |
| Dashboard clocks & watches. 231 | | Detectors, ground | 310 | Dies, steam hammer..... | 312 | Dividers | 314 |
| Dashboard lanterns | 575 | Detectors, phonoscopic or electric | 819 | Dies, steel | 1065 | Dividers for moulding knives | 314 |
| Dasher steel | 1072 | Detectors, time (see clocks, watchman's). | | Dies, stencil cutting..... | 312 | Dividing heads (index & dividing) | 518 |
| Dating machines | 634 | Detectors, water waste..... | 310 | Dies, stove pipe..... | 312 | Diving apparatus | 314 |
| Davit blocks..... | 67 | Device, ballast placing..... | 45 | Dies, thread cutting..... | 312 | Dobbies | 1121 |
| Dead eyes..... | 428 | Device, sash operating..... | 1004 | Dies, wire drawing..... | 312 | Dobby chains | 1121 |
| Deadening felts..... | 431 | Device, wheel truing | 1191 | Dies & cutters, grommet inserting | 497 | Dock blocks | 67 |
| Deafening materials..... | 305 | Devices, window operating.... | 1199 | Dies & stocks | 1080 | Dock builders | 314 |
| Decalcomania numbers & letters | 793 | Devices, babbitt bearing | 44 | Differential chain blocks... 67 | | Dock builders' clamps..... | 226 |
| Decalcomania transfers..... | 305 | Devices, electric, protective. 352 | | Differential meters | 769 | Dock cranes | 293 |
| Deck blocks (see blocks, tackle). | | Devices, elevator safety.... | 368 | Differential pulley block chains | 218 | Dock hoists | 532 |
| Deck engines | 413 | Devices, filing (cabinets & devices) | 434 | Diffusion batteries | 1097 | Dock outfits, coal..... | 233 |
| Deck hoists (dock & deck) .. | 532 | Devulcanizers | 310 | Digester linings, sulphate. 1099 | | Dock rods | 948 |
| Deck pumps, ship & deck... 920 | | Dial feeds (roll & dial).... | 431 | Digesters | 312 | Dock spikes | 1057 |
| Deck sash ratchets..... | 936 | Dial measuring wheels..... | 1193 | Diggers, beet | 313 | Docks, dry, steel floating... 329 | |
| Deckle straps | 1096 | Dial presses (see presses, power). | | Diggers, post hole..... | 313 | Document handles | 501 |
| Decorations | 305 | Dials, clock, gauge, scale, etc. | 310 | Diggers, potato | 313 | Doffer-comb motions..... | 1126 |
| Decorations, Carton Pierre. 305 | | Dials, meter | 310 | Diggers, stubble..... | 313 | Doffer combs | 1120 |
| Decorations, china..... | 223 | Dials, sun | 1099 | Diggers, digging bars | 50 | Dog collar lock mfrs..... | 587 |
| Decorations, church..... | 305 | Dials & cylinders, knitting machine | 1121 | Digging machinery..... | 634 | Dog collars | 239 |
| Decorations, interior..... | 305 | Dials & cylinders, forged steel | 1121 | Digging machinery, canal.. 634 | | Dog irons | 561 |
| Decorations, plastic relief... 308 | | Diamond core drills (see drills, core). | | Digging spoons | 1058 | Dog lead chains..... | 218 |
| Decorations, theatre | 308 | Diamond drills | 324 | Dimmers, theatre | 313 | Dog power treads..... | 1151 |
| Decorative architects..... | 34 | Diamond point turning tools. 1143 | | Dipperles, tin plate..... | 1138 | Dog powers..... | 903 |
| Decorative art leathers..... | 308 | Diamond saws | 1018 | Dipping baskets | 50 | Dog wrenches | 1212 |
| Decorative art tapestries.... | 308 | Diamond tools | 1143 | Dipping paints | 810 | Dogs, bent tail..... | 315 |
| Decorative fabrics..... | 308 | Diamonds, black | 65 | Dipping tanks | 1106 | Dogs, bolt..... | 315 |
| Decorative tile..... | 1136 | Diamonds, glaziers' | 310 | Direct connected engine fans 428 | | Dogs, chain | 315 |
| Decorators, architectural.... | 308 | Diaphragm pumps | 917 | Direct connected & belted engines | 413 | Dogs, die | 315 |
| Decorators, ecclesiastical.... | 308 | Diaphragm taps, lead..... | 1112 | Direct current railway motors | 786 | Dogs, lathe | 315 |
| Decorators & painters, mural 308 | | Diaphragms, car | 310 | Directories, changeable, office & loft building..... | 221 | Dogs, pinch, pattern makers 821 | |
| Decorators' sizing | 1048 | Diaphragms, rubber | 310 | Directories for office & loft buildings | 313 | Dogs, rafting | 315 |
| Decorators' supplies | 308 | Die block steel (see steel, tool). | | Dirk knives | 567 | Dogs, ring | 315 |
| Deep artesian well steam pumps | 916 | Die chamfering machines... 634 | | Dirt extractors, interior (dust and dirt)..... | 428 | Dogs, saw mill..... | 315 |
| Deep foundations (see caisson foundations). | | Die cutting presses..... | 904 | Dirt removers, vacuum sweeping system | 313 | Dogs, stone | 315 |
| Deep sea sounding lines.... | 1056 | Die dogs | 315 | Dirt road locomotives..... | 590 | Dogs, straight tail..... | 315 |
| Deep well pumping engines... 413 | | Die heads, screw cutting... 518 | | Dirt & sod tampers..... | 1104 | Dogs, timber | 315 |
| Deep well pumps..... | 916 | Die plate hammering machines | 634 | Disc grain drills..... | 324 | Dolles, lumber | 315 |
| Defecators | 1098 | Die plate holders..... | 535 | Disc grinders | 493 | Door bells | 56 |
| Deflectors, arc, for controllers | 11 | Die presses | 904 | Disc harrows | 515 | Door bolts | 80 |
| Deflectors & linings, arc... 11 | | Die sinkers | 310 | Disc making machines.... | 634 | Door bumpers..... | 315 |
| Dehorner knives | 567 | Die sinking machines..... | 634 | Disc notching machines.... | 634 | Door caps, galvanized iron. 181 | |
| Dehorners, cattle | 308 | Die sinking & milling machines, combined..... | 634 | Disc notching presses..... | 904 | Door catches | 207 |
| Dehorning saws | 1018 | Die slotting machines..... | 634 | Disc or rotary plows..... | 834 | Door check & spring mfrs.. 315 | |
| Dehydrating presses | 904 | Die taps | 1112 | Disc punching machines.... | 657 | Door checks, screen..... | 1024 |
| Delta metal bars & plates. 308 | | Die & punch grinding machines | 657 | Disc sanding machines.... | 634 | Door clamps | 226 |
| Delta metal forgings..... | 447 | Die & tap holders..... | 535 | Disc sharpeners | 1035 | Door closers | 316 |
| Demagnetizers, watch..... | 308 | Dies | 310 | Discs, armature | 313 | Door fasteners, freight car. 430 | |
| Denatured alcohol | 8 | Dies, adjustable expanding. 310 | | Discs, friction..... | 313 | Door hangers | 316 |
| Dental machinery, electro... 637 | | Dies, automatic | 310 | Discs, iron & steel..... | 313 | Door hangers, auditorium.. 316 | |
| Dental motors..... | 786 | Dies, blanking | 311 | Discs, radiator | 313 | Door hangers, barn or warehouse | 316 |
| Dental & surgical furniture. 459 | | Dies, bolt threading | 311 | Discs, slate | 313 | Door hangers, car..... | 317 |
| Deposit boxes, safety..... | 1001 | Dies, box printing..... | 311 | Discs, valve | 313 | Door hangers, elevator.... | 317 |
| Depot scales..... | 1020 | Dies, breast | 311 | Dish machinery, butter... 625 | | Door hangers, fire..... | 317 |
| Depth gauges | 468 | Dies, brick & clay workers.. 311 | | Dish machinery, wood..... | 674 | Door hangers, folding..... | 317 |
| Dephometers | 308 | Dies, can makers..... | 311 | Dish washing machines.... | 634 | Door hangers, freight house 317 | |
| Derailing switches..... | 1101 | Dies, ceiling | 311 | Dishes, chafing | 313 | Door hangers, noiseless, house | 317 |
| De-rails, street railway.... | 308 | Dies, chilled hammer..... | 311 | Dishes, paper | 313 | Door hangers, parlor..... | 317 |
| Derrick blocks | 67 | Dies, compound & shipyard (punches & dies)..... | 925 | Dishes, wood..... | 313 | Door hangers, parlor, adjustable track..... | 317 |
| Derrick cars..... | 186 | Dies, cutting..... | 311 | Disinfectants | 313 | Door hangers, sliding or folding | 317 |
| Derrick cranes | 293 | Dies, drop forging..... | 311 | Disinfecting apparatus.... | 314 | Door hangers, swivel..... | 317 |
| Derrick foot blocks..... | 67 | Dies, embossing | 311 | Disinfecting machinery.... | 634 | Door hangers, trolley & track | 317 |
| Derrick irons & fittings.... | 308 | Dies, engraved soap..... | 311 | Disinfecting paint machines, compressed air | 634 | Door hangers & tracks, par-allel | 317 |
| Derrick lamps | 573 | Dies, forming | 311 | Disintegrating screens.... | 1024 | Door hinges, circular..... | 529 |
| Derrick rope mfrs..... | 309 | Dies, gas fixture..... | 311 | Disintegrators | 314 | Door hinges, closet | 529 |
| Derrick sheave blocks..... | 67 | Dies, gas oven..... | 311 | Displacement pumps | 917 | Door hooks, stable..... | 537 |
| Derrick spars, masts & booms | 309 | Dies, glove cutting (see glove machinery). | | Display baskets, counter... 50 | | Door knobs, brass & bronze 317 | |
| Derrick swingers | 309 | Dies, gong | 311 | Disposal machines, garbage. 640 | | Door knobs, porcelain..... | 318 |
| Derrick timbers | 309 | Dies, machine or solid bolt. 311 | | Disposal plants, garbage... 461 | | Door knobs, screwless.... | 318 |
| Derricks | 309 | Dies, oblong combination... 312 | | Disposal plants, sewage... 1032 | | Door knobs, wood..... | 318 |
| Derricks, clam shell..... | 309 | Dies, opening | 312 | Distance recording meters. 769 | | Door knockers..... | 570 |
| Derricks, electrical..... | 309 | Dies, pipe | 312 | Distillate engines | 413 | Door knockers, colonial.... | 318 |
| Derricks, floating | 309 | Dies, press | 312 | Distillate hoists | 532 | Door latches (see latches). | |
| Derricks, folding | 309 | Dies, punching | 312 | Distillers' machinery..... | 634 | Door locks (see locks). | |
| Derricks, guy | 309 | | | Distilling apparatus | 314 | Door mfrs. (see doors). | |
| Derricks, locomotive | 309 | | | Distress signals..... | 1045 | Door numbers (see numbers & letters, metal). | |
| Derricks, oil & water well. 309 | | | | Distributors, guano..... | 497 | Door openers, automatic... 318 | |
| Derricks, pile driving..... | 309 | | | Distributors, sewage | 1032 | Door openers, electric..... | 318 |
| Derricks, revolving | 309 | | | District call boxes..... | 84 | | |
| Derricks, steam | 309 | | | | | | |
| Derricks, steel | 309 | | | | | | |
| Derricks, stiff leg..... | 309 | | | | | | |
| Derricks, sugar cane handling | 309 | | | | | | |
| Derricks, traveling | 309 | | | | | | |
| Derricks, well, oil & water. 309 | | | | | | | |
| Designing engineers, bridge. 379 | | | | | | | |

| | Page | | Page | | Page | | Page |
|---|------|---|------|---|------|---|------|
| Door openers, sliding door.. | 318 | Double expansion hitching ring bolts | 80 | Drawing & roving boxes... | 1118 | Drilling machinery, well, rotary boring | 672 |
| Door openers & closers, elevator | 366 | Double head milling machines | 647 | Dredge castings, steel | 206 | Drilling oils | 797 |
| Door plates, kick & push (see plates, kick & push). | | Double platform elevators... | 369 | Dredge chains | 218 | Drilling or gadder machines, stone | 667 |
| Door pulls | 912 | Double pointed tack mfrs... | 1104 | Dredges, gold & placer mining | 322 | Drilling posts | 901 |
| Door rails | 933 | Double seamed, solid copper bath tubs | 51 | Dredges, second-hand | 322 | Drilling spoons, rock..... | 1058 |
| Door, sash & blind machinery | 661 | Double seaming machines.. | 635 | Dredging buckets | 113 | Drilling vise & anvil machines combined..... | 619 |
| Door, sash & blind mfrs.... | 1004 | Double tube tires, pneumatic | 1140 | Dredging contractors..... | 251 | Drilling & boring machines, horizontal | 622 |
| Door screens (window & door) | 1025 | Double turret head screw machines | 662 | Dredging engines | 413 | Drilling & countersinking machines | 636 |
| Door sheaves | 1039 | Doublers | 1121 | Dredging machinery, hydraulic | 636 | Drilling & countersinking machines, slate | 665 |
| Door sheaves ("Grant" noiseless) | 1039 | Doubletrees, singletrees & whiffletrees | 1047 | Dredging pumps, hydraulic. | 918 | Drilling & finishing tools, oil well | 1144 |
| Door springs | 1060 | Doubling plate shears..... | 1037 | Dredging sleeves | 1053 | Drilling & milling machines, butt | 625 |
| Door springs, engine house. | 1060 | Doubling spoolers..... | 1131 | Dredging & excavating buckets | 113 | Drilling & striking hammers | 498 |
| Door stops | 318 | Dough mixing & kneading machinery | 635 | Dress pins | 821 | Drilling & tapping machines | 636 |
| Door switches, automatic... | 1101 | Dovetailing machines | 635 | Dresser creels..... | 1121 | Drilling & tapping machines, combined | 636 |
| Doors, asbestos, "Transite" lumber | 318 | Dowel bits | 64 | Dresser spindles | 1130 | Drilling & tapping machines, pulley hub | 656 |
| Doors, ash-pit..... | 318 | Dowel door machinery..... | 635 | Dresser spoolers | 1131 | Drills, artesian well..... | 322 |
| Doors, automatic dumb-waiter | 332 | Dowel knives | 567 | Dresser spools, steel head.. | 1131 | Drills, automatic | 322 |
| Doors, automatic elevator.. | 366 | Dowel machines | 635 | Dressers, bibb seat..... | 322 | Drills, beet planting..... | 322 |
| Doors, automatic fire, elevator | 366 | Dowel pins | 821 | Dressers, cotton | 1121 | Drills, bench | 322 |
| Doors, automatic hatch..... | 517 | Dowel, rod & pin machinery | 659 | Dressers, emery wheel..... | 374 | Drills, bit point..... | 323 |
| Doors, bronze | 110 | Dowel rods | 321 | Dressers, grinding wheel... | 496 | Drills, bit stock..... | 323 |
| Doors, car | 181 | Dowel screws (see screws, wood). | | Dressers, side, for side file. | 1045 | Drills, blacksmiths' | 323 |
| Doors, cedar & fir..... | 318 | Dowel sharpeners | 1036 | Dressers, thread | 1121 | Drills, bollermakers' | 323 |
| Doors, cellar | 318 | Dowels | 321 | Dressers, warp | 1121 | Drills, boiler shell..... | 323 |
| Doors, cellar, steel..... | 1071 | Dowels, patternmakers'.... | 321 | Dressers, yarn | 1121 | Drills, bracket..... | 323 |
| Doors, cold storage..... | 318 | Dowels, steel..... | 321 | Dressing, belt | 57 | Drills, breast | 323 |
| Doors, copper covered..... | 318 | Down draft forges..... | 446 | Dressing, carriage top..... | 322 | Drills, breast, pneumatic... | 895 |
| Doors, core oven..... | 318 | Down machinery | 636 | Dressing commutator (see compounds, commutator). | | Drills, brick & stone..... | 323 |
| Doors, cypress, wholesale... | 318 | Draft dampers, forced..... | 305 | Dressing machinery, fur.... | 640 | Drills, center | 323 |
| Doors, drop fire..... | 318 | Draft friction springs..... | 1060 | Dressing machines, slate.... | 665 | Drills, chain | 323 |
| Doors, dumb waiter, automatic | 332 | Draft gauges..... | 468 | Dressing, rope | 322 | Drills, clamp | 323 |
| Doors, dumb waiter, fireproof | 332 | Draft gear | 321 | Driers, cane, continuous... | 1098 | Drills, coal prospecting... | 323 |
| Doors, elevating | 319 | Draft inducer | 321 | Drift bolts | 80 | Drills, coal & rock..... | 323 |
| Doors, elevator (see elevator doors, various kinds). | | Draft, mechanical..... | 767 | Drifting picks | 819 | Drills, combination center... | 323 |
| Doors, fire, tin clad..... | 319 | Draft recording gauges..... | 468 | Drill bits | 64 | Drills, compressed air..... | 323 |
| Doors, fireproof (doors & shutters) | 320 | Draft springs | 1060 | Drill bits, rail..... | 65 | Drills, core | 323 |
| Doors, fireproof, dumb waiter | 332 | Drafting machines..... | 636 | Drill chuck arbors..... | 11 | Drills, corn planting..... | 323 |
| Doors, fireproof, metal..... | 319 | Draftsmen, mechanical..... | 321 | Drill chucks | 224 | Drills, cotter | 323 |
| Doors, fireproof, steel rolling (doors & shutters) | 320 | Drag buckets | 113 | Drill chucks, twist..... | 225 | Drills, cotton planting... | 324 |
| Doors, fire, tin clad..... | 319 | Drag chains | 218 | Drill grinders..... | 493 | Drills, diamond | 324 |
| Doors, folding | 319 | Drag rakes | 935 | Drill lathes | 577 | Drills, diamond core (see drills, core). | |
| Doors, hardwood & veneered | 319 | Drag saw mills..... | 1016 | Drill points | 900 | Drills, disc, grain..... | 324 |
| Doors, hatch, automatic... | 517 | Drag saws | 1018 | Drill press tapping attachments | 1111 | Drills, electric..... | 324 |
| Doors, hatch, automatic in case of fire only..... | 517 | Drag & wheel road scrapers. | 1023 | Drill presses | 322 | Drills, electric, air..... | 324 |
| Doors, hopper | 319 | Drain shovels | 1043 | Drill presses, ball bearing.. | 322 | Drills, electric portable... | 324 |
| Doors, iron | 555 | Drain tile | 1136 | Drill presses for wood..... | 322 | Drills, electric rock..... | 324 |
| Doors, iron & glass..... | 319 | Drain tile cutters (brick & drain tile)..... | 301 | Drill presses, high speed... | 322 | Drills, electricians' | 328 |
| Doors, kalameined (see doors & windows kalameined, etc.). | | Drain tile machinery..... | 636 | Drill presses, post..... | 322 | Drills, fertilizer..... | 324 |
| Doors, mausoleum (doors & gates) | 767 | Drainage excavators | 426 | Drill punches | 924 | Drills, flexible shaft..... | 324 |
| Doors, metal covered entrance | 319 | Drainage fittings..... | 442 | Drill rods | 948 | Drills, fluted..... | 324 |
| Doors, metallic, solid..... | 320 | Drainage systems..... | 321 | Drill sharpening machines, rock | 659 | Drills, gang..... | 324 |
| Doors, mine | 320 | Drainers, cellar, automatic... | 207 | Drill sharpening tools..... | 1143 | Drills, garden seed..... | 324 |
| Doors, open hearth furnace. | 318 | Draperies & furniture..... | 460 | Drill sockets | 1054 | Drills, grain | 325 |
| Doors, oven | 320 | Draught indicators..... | 542 | Drill speeders..... | 322 | Drills, hammer..... | 325 |
| Doors; Pitt balance..... | 320 | Draughting inks | 321 | Drill springs, grain..... | 1060 | Drills, hand hammer, pneumatic | 897 |
| Doors, red cedar, wholesale. | 320 | Draughting tables (see drawing tables). | | Drill steel sharpeners..... | 1036 | Drills, hand-power..... | 325 |
| Doors, revolving | 320 | Draughtsmen's erasers | 426 | Drill tripods | 1152 | Drills, hollow..... | 325 |
| Doors, revolving fireproof... | 320 | Drawbar attachment | 321 | Drill vises | 1179 | Drills, hollow & jamper brick | 325 |
| Doors, round house..... | 320 | Drawbar centering device, "Ideal" | 321 | Drill & reamer taps, combined | 1112 | Drills, letter | 325 |
| Doors, sashes & blinds..... | 1004 | Drawbar, axle, etc., testing machines | 669 | Drill & vise, combined..... | 322 | Drills, marble & granite... | 325 |
| Doors, steel cellar..... | 1071 | Draw bars | 50 | Drillers, pneumatic baby... | 895 | Drills, mine ratchet..... | 325 |
| Doors, steel rolling (see shutters, steel rolling). | | Draw benches | 62 | Drilling attachments, automatic | 322 | Drills, mine, self-feeding... | 325 |
| Doors, storm | 320 | Draw benches, hydraulic... | 62 | Drilling compounds | 241 | Drills, Morse tapcr..... | 325 |
| Doors, storm & windproof... | 320 | Drawbridge engines | 413 | Drilling hammers | 498 | Drills, multiple spindle... | 325 |
| Doors, vault (fronts & doors) | 1175 | Drawbridge equipments, electric | 321 | Drilling machines | 636 | Drills, oil tube..... | 325 |
| Doors, wind proof..... | 320 | Drawbridge machinery..... | 636 | Drilling machines, bit brace | 636 | Drills, paper | 325 |
| Doors, winding & sliding... | 320 | Drawer fitting machines... | 636 | Drilling machines, blast hole | 621 | Drills, pipe..... | 1113 |
| Doors & fittings, car..... | 181 | Drawer, plank | 826 | Drilling machines (boring & drilling) | 622 | Drills, pneumatic..... | 896 |
| Doors & gates, mausoleum. | 767 | Drawer pulls | 913 | Drilling machines, cotter & key-seat | 636 | Drills, pneumatic breast... | 895 |
| Doors & shutters, fireproof. | 320 | Drawer slides | 321 | Drilling machines, horizontal | 636 | Drills, pneumatic piston... | 897 |
| Doors & shutters, fireproof, steel rolling | 320 | Drawers, cash or money... | 194 | Drilling machines, horizontal, boring & drilling... | 622 | Drills, pneumatic reamling & tapping | 898 |
| Doors & windows, kalameined | 320 | Drawing board & library nomenclature | 788 | Drilling machines, gun barrel | 641 | Drills, pneumatic rock..... | 898 |
| Dormant scales | 1020 | Drawing boxes | 1118 | Drilling machines, multiple. | 636 | Drills, pod | 325 |
| Double-acting self-measuring pump | 917 | Drawing cranes (charging & drawing) | 292 | Drilling machines, gang..... | 640 | Drills, portable | 325 |
| Double-acting spring hnges. | 529 | Drawing frame stop motions. | 1126 | Drilling machines, multiple spindle (see drills multiple spindle) | 641 | Drills, post | 325 |
| Double edged knives..... | 567 | Drawing knives | 567 | Drilling machines, pin..... | 653 | Drills, prospecting, hand or power | 325 |
| Double edgers | 335 | Drawing machines, rod or bar | 659 | Drilling machines, pipe pressure | 636 | Drills, radial | 326 |
| Double end bolts..... | 80 | Drawing machinery, wire.. | 672 | Drilling machines, rivet.... | 636 | Drills, railway track..... | 326 |
| Double end punching & shearing machines | 658 | Drawing materials | 321 | Drilling machines, test hole | 669 | Drills, ratchet..... | 326 |
| | | Drawing pencils..... | 818 | Drilling machines, tire..... | 670 | Drills, rice planting..... | 326 |
| | | Drawing plates, wire..... | 832 | Drilling machinery, well... | 672 | Drills, rock, gasoline..... | 326 |
| | | Drawing presses..... | 904 | Drilling machinery, well, adamantite coring | 672 | Drills, rock, hand..... | 326 |
| | | Drawing rolls, metallic.... | 1129 | | | Drills, rock, pneumatic... | 898 |
| | | Drawing scales | 1020 | | | Drills, rock, steam..... | 326 |
| | | Drawing tables | 322 | | | Drills, rotary, pneumatic... | 898 |
| | | Drawing & charging cranes. | 292 | | | Drills, routing bit..... | 326 |
| | | | | | | Drills, sensitive | 326 |
| | | | | | | Drills, shade roller..... | 326 |

| | Page | | Page | | Page | | Page |
|---|------|--|------|---|------|---|------|
| Drills, shell | 326 | Dryer cars | 189 | Duplicating tracing & drawings | 334 | Elbow former, conduit..... | 248 |
| Drills, slate | 327 | Dryer & calcining apparatus | 330 | Duplicators | 334 | Elbow seam closing machines | 636 |
| Drills, star | 327 | Dryers, air | 330 | Dust absorbers, vacuum system | 334 | Elbow shoes (conductor & elbow) | 248 |
| Drills, stove | 327 | Dryers, brick | 330 | Dust absorbing floor oils..... | 444 | Elbow & stove pipe mfrs.... | 1094 |
| Drills, straight shank..... | 327 | Dryers, carpet..... | 1121 | Dust catchers, radiator..... | 927 | Elbows, conductor pipe..... | 336 |
| Drills, straightening | 327 | Dryers, cartridge shell..... | 330 | Dust collectors, mechanical.. | 334 | Elbows, corrugated..... | 288 |
| Drills, submarine | 327 | Dryers, cement & asphalt.... | 330 | Dust guards, hard fibre (see fibre mfrs., hard)..... | | Elbows, plumbers' rubber... | 336 |
| Drills, suspension | 327 | Dryers, cloth..... | 1121 | Dust guards, journal box.... | 334 | Elbows, union | 336 |
| Drills, tap | 327 | Dryers, clothes, hot air..... | 232 | Dust pans | 815 | Election booths, steel or wood | 336 |
| Drills, taper | 327 | Dryers, clothes, steam, hot water & gas..... | 232 | Dust separators | 1031 | Electric adjustable fixtures, wall & ceiling | 443 |
| Drills, three & four groove.. | 327 | Dryers, coal, stone, etc..... | 330 | Dust & dirt extractors, interior | 428 | Electric air drills..... | 324 |
| Drills, track (see drills, railway track)..... | | Dryers, coffee..... | 330 | Duster mfrs..... | 334 | Electric air stone channeling machines | 667 |
| Drills, traveling | 327 | Dryers, cotton | 1121 | Dusters, rag | 1122 | Electric alarm clocks..... | 230 |
| Drills, traverse | 327 | Dryers, fertilizer..... | 330 | Dusters, wool & waste..... | 1122 | Electric arc lamp post..... | 571 |
| Drills, turret | 327 | Dryers, garbage | 330 | Dusting machines, feather.. | 638 | Electric arc welders..... | 11 |
| Drills, twist | 327 | Dryers, grain & malt..... | 330 | Dutch clinker brick mfrs.... | 101 | Electric automobile buffers.. | 114 |
| Drills, twist, letter..... | 327 | Dryers, hair | 1121 | Dye beck's | 1122 | Electric bells..... | 56 |
| Drills, universal | 327 | Dryers, hoof or bone..... | 330 | Dye house cans..... | 1118 | Electric blasting apparatus.. | 336 |
| Drills, upright..... | 327 | Dryers, hot air apron..... | 1121 | Dye house clogs..... | 1119 | Electric blowers..... | 68 |
| Drills & bits, electricians'.. | 328 | Dryers, hot roll, for veneer lumber | 331 | Dye house trucks..... | 1154 | Electric blowers & exhausters | 69 |
| Drills & listers, combined.... | 328 | Dryers, jacketed cylindrical.. | 331 | Dye kettles..... | 1122 | Electric blue printing machines (see blue printing machines)..... | |
| Drills & sowers, hand seed garden | 1056 | Dryers, laundry | 580 | Dye sticks | 1122 | Electric book lifts..... | 83 |
| Drills & taps, combined, pipe | 1113 | Dryers, leaf tobacco..... | 331 | Dye tubs | 1122 | Electric broilers | 109 |
| Drills & taps, pipe..... | 1113 | Dryers, lumber..... | 331 | Dye wood chipping machines | 636 | Electric candles | 179 |
| Drinking fountains | 452 | Dryers, meal..... | 331 | Dye wood extracts..... | 334 | Electric car brakes..... | 89 |
| Drinking fountains, sanitary | 452 | Dryers, mold..... | 331 | Dyeing machinery..... | 1122 | Electric car heaters..... | 519 |
| Drip pans..... | 815 | Dryers, ore..... | 331 | Dyeing machines, skein.... | 1122 | Electric car lighting apparatus (see car lighting apparatus)..... | |
| Drip pans, automobile..... | 328 | Dryers, pebble | 331 | Dyers' copper work..... | 1120 | Electric car lighting, Bliss system | 336 |
| Drips, gauge cock..... | 328 | Dryers, revolving..... | 331 | Dyes, aniline (colors & dyes) | 10 | Electric car trucks..... | 1154 |
| Drive punches..... | 924 | Dryers, rotary | 331 | Dyewood chipping machines | 636 | Electric carriage calls..... | 183 |
| Drive screws (see screws, wood)..... | | Dryers, salt well..... | 331 | Dyewood extracts | 334 | Electric cars (street & electric) | 192 |
| Drive well points..... | 900 | Dryers, sand & gravel (dryers & heaters)..... | 1002 | Dynamite mfrs..... | 334 | Electric chain hoists..... | 533 |
| Drivers, brad..... | 328 | Dryers, skein..... | 1121 | Dynamo belting mfrs..... | 61 | Electric clamps..... | 226 |
| Drivers, coopers' hoop..... | 328 | Dryers, soap | 331 | Dynamo brush copper..... | 278 | Electric clocks | 230 |
| Drives, angle chain..... | 328 | Dryers, textile..... | 1121 | Dynamo brushes | 111 | Electric clocks, alarm..... | 230 |
| Drives, hoop..... | 537 | Dryers, tobacco | 331 | Dynamo field regulators.... | 941 | Electric clocks, secondary.. | 231 |
| Drives, motor..... | 328 | Dryers, underwear..... | 1121 | Dynamo igniters (see igniters, gas & gasoline engines)..... | | Electric clocks, self-winding | 231 |
| Drives, rope..... | 999 | Dryers, vacuum..... | 332 | Dynamo mfrs..... | 334 | Electric clutches | 232 |
| Drives, rope..... | 999 | Dryers, warp | 1121 | Dynamo oil cups..... | 334 | Electric coal mining machinery | 630 |
| Drives, power..... | 328 | Dryers, wire top..... | 1121 | Dynamo & motor mfrs..... | 334 | Electric condensers..... | 247 |
| Driveway & entrance gates.. | 466 | Dryers, wool | 1121 | Dynamo & motor oil gauges | 468 | Electric condensers, telephone | 247 |
| Driveways, cement | 211 | Dryers, yarn..... | 1122 | Dynamometers | 335 | Electric conduits (see conduits)..... | |
| Driving bars..... | 50 | Drying apparatus, kiln..... | 566 | Dynamometers | 335 | Electric converters | 273 |
| Driving wheel lathes (car & driving wheel) | 577 | Drying barrels, steam..... | 48 | Dynamometers | 335 | Electric conveying telephage | 1115 |
| Driving wheels | 1193 | Drying cans..... | 1118 | Dynamometers | 335 | Electric cooking apparatus.. | 277 |
| Driving wheels, steel tired.. | 1193 | Drying frames, clothes..... | 232 | Dynamometers | 335 | Electric crane brakes..... | 89 |
| Drop bottom cars..... | 186 | Drying machinery (see dryers, various kinds)..... | | Dynamometers | 335 | Electric crane controllers... | 292 |
| Drop carving machines (embossing, etc.) | 638 | Drying machines, chemical.. | 636 | Dynamometers | 335 | Electric crane motors..... | 786 |
| Drop fire doors..... | 318 | Drying machines, print work | 1122 | Dynamometers | 335 | Electric desk lamps..... | 573 |
| Drop forged machine handles | 501 | Drying machines, veneer.... | 671 | Dynamometers | 335 | Electric detectors (phonoscopic or electric) | 819 |
| Drop forged wrenches..... | 1212 | Drying room machinery..... | 636 | Dynamometers | 335 | Electric door openers..... | 318 |
| Drop forging dies..... | 311 | Drying rooms (see clothes dryers, steam, etc.)..... | | Dynamometers | 335 | Electric draw bridge equipments | 321 |
| Drop forgings | 447 | Drying stoves, brass foundry | 1094 | Dynamometers | 335 | Electric drills | 324 |
| Drop hammers | 499 | Duck looms, cotton..... | 1126 | Dynamometers | 335 | Electric drop lamp holders.. | 535 |
| Drop lamp holders, electric. | 535 | Duck roofing (see cotton duck mfrs.)..... | | Dynamometers | 335 | Electric dumb waiters..... | 333 |
| Drop light, electrogrip..... | 365 | Duck slitting machines..... | 636 | Dynamometers | 335 | Electric elevator controllers | 272 |
| Drop presses | 904 | Duck & canvas cotton..... | 289 | Dynamometers | 335 | Electric elevator motors.... | 786 |
| Drop wires | 1121 | Dumb bell turning lathes.. | 577 | Dynamometers | 335 | Electric elevator self-starters | 368 |
| Dross kettles | 565 | Dumb bells, wood..... | 332 | Dynamometers | 335 | Electric elevators | 369 |
| Drug mills..... | 778 | Dumb bells & quilts..... | 332 | Dynamometers | 335 | Electric exhausters | 427 |
| Drug store fixtures (see store & bar fixtures)..... | | Dumb waiter doors, automatic | 332 | Dynamometers | 335 | Electric fan motors..... | 786 |
| Druggists' glassware (chemical & druggists')..... | 482 | Dumb waiter doors, fireproof | 332 | Dynamometers | 335 | Electric fans | 428 |
| Druggists' rubber goods..... | 999 | Dumb waiter pulleys, anti-friction | 911 | Dynamometers | 335 | Electric fire alarm bells..... | 57 |
| Druggists' tincture presses.. | 908 | Dumb waiter rope..... | 332 | Dynamometers | 335 | Electric floor matting..... | 766 |
| Drum hoists | 532 | Dumb waiter shaft fireproofing (see fireproof partitions)..... | | Dynamometers | 335 | Electric forgings..... | 447 |
| Drum spoolers | 1131 | Dumb waiters | 332 | Dynamometers | 335 | Electric fountains | 452 |
| Drums, car heater..... | 328 | Dumb waiters, electric..... | 333 | Dynamometers | 335 | Electric furnaces..... | 455 |
| Drums, for inclines..... | 328 | Dumb waiters, pneumatic.... | 333 | Dynamometers | 335 | Electric gas lighting burners | 176 |
| Drums, gas (see gas holders)..... | | Dumb waiters, self-sustaining | 333 | Dynamometers | 335 | Electric gasoline motor cars | 190 |
| Drums, glycerine & oil..... | 328 | Dumb waiters, steel..... | 333 | Dynamometers | 335 | Electric generators (see generators, various kinds)..... | |
| Drums, hoisting | 328 | Dumb cars, hand..... | 188 | Dynamometers | 335 | Electric grinders | 494 |
| Drums, pneumatic winding.. | 900 | Dump cars (steel mining or dump) | 191 | Dynamometers | 335 | Electric grinders, portable.. | 494 |
| Drums, rope driving..... | 328 | Dump scales | 1020 | Dynamometers | 335 | Electric headlights | 517 |
| Drums, sand | 328 | Dump wagons, asphalt..... | 1181 | Dynamometers | 335 | Electric heaters | 518 |
| Drums, seaminess pressed steel | 328 | Dumpers, car | 181 | Dynamometers | 335 | Electric heaters, car..... | 519 |
| Drums, steam or mud..... | 328 | Dumping apparatus, coal mine | 334 | Dynamometers | 335 | Electric hoists..... | 532 |
| Drums, steel shipping..... | 328 | Dumping buckets, contractors' | 271 | Dynamometers | 335 | Electric hoists, reversible friction | 533 |
| Drum winding | 328 | Dumping cars | 186 | Dynamometers | 335 | Electric house brackets..... | 87 |
| Dry batteries | 52 | Dumping cars, railroad.... | 187 | Dynamometers | 335 | Electric ingot strippers.... | 544 |
| Dry clay gatherer..... | 329 | Dumping carts | 193 | Dynamometers | 335 | Electric lamp holders..... | 535 |
| Dry colors (see color mfrs.).. | | Dumping grates (shaking & dumping) | 1035 | Dynamometers | 335 | Electric lamp sockets..... | 1055 |
| Dry docks, steel, floating.... | 329 | Dumping tubs | 1158 | Dynamometers | 335 | Electric lamp guards..... | 497 |
| Dry docks & marine railways | 329 | Dumping wagons | 1181 | Dynamometers | 335 | | |
| Dry earth closets..... | 231 | Dumps, automatic, cross-over | 334 | Dynamometers | 335 | | |
| Dry earth fillers..... | 434 | Dumps, ice | 542 | Dynamometers | 335 | | |
| Dry kiln trucks..... | 1154 | | | Dynamometers | 335 | | |
| Dry kiln wheels..... | 1193 | | | Dynamometers | 335 | | |
| Dry kilns | 566 | | | Dynamometers | 335 | | |
| Dry material paint grinders.. | 805 | | | Dynamometers | 335 | | |
| Dry pans | 815 | | | Dynamometers | 335 | | |
| Dry pipe tapping machines.. | 669 | | | Dynamometers | 335 | | |
| Dry poles, enameled, for silk dryers | 1121 | | | Dynamometers | 335 | | |

| | Page | | Page | | Page | | Page |
|---|------|--|------|---|------------|---|------|
| Electric lamps (see lamps various kinds). | | Electric truck haulers..... | 1153 | Elevator chains..... | 218 | Elevators & conveyors, ice (see ice handling machinery). | |
| Electric laundry irons..... | 580 | Electric welding..... | 1190 | Elevator chains, ice..... | 219 | Elevators & conveyors, mail bag | 374 |
| Electric laundry supplies... | 580 | Electric welding machines... | 637 | Elevator controllers, electric | 272 | Eliminators | 374 |
| Electric light central stations | 336 | Electric winches..... | 1197 | Elevator cups..... | 299 | Ell fittings | 442 |
| Electric light fixtures (see gas & electric fixtures). | | Electric wire cutters..... | 301 | Elevator door hangers..... | 317 | Elliptic spring machinery... | 637 |
| Electric light pole pulley blocks | 67 | Electric wire making machinery | 637 | Elevator door latches..... | 575 | Elliptic springs | 1060 |
| Electric light poles..... | 351 | Electric wiring mouldings.. | 788 | Elevator door lock mfrs.... | 587 | Embossed mouldings | 788 |
| Electric light prismatic hoods | 909 | Electric & gas fixtures, mfrs. & wholesalers..... | 463 | Elevator door locks (see elevator safety locks). | | Embossers, glass | 475 |
| Electric light reading lamps & portables | 351 | Electric & gas light portables | 464 | Elevator door openers & closers | 366 | Embossing dies | 311 |
| Electric light reflectors (see reflectors). | | Electric & hydraulic ingot strippers | 544 | Elevator doors, automatic... | 366 | Embossing machines | 637 |
| Electric light shades & reflectors | 1034 | Electric & mechanical porcelain specialties..... | 901 | Elevator doors, automatic fire | 366 | Embossing machines, name plate | 649 |
| Electric light shifter..... | 351 | Electrical automobile equipment | 41 | Elevator doors, bronze..... | 367 | Embossing presses | 904 |
| Electric light wire (see wire, insulated). | | Electrical bearings..... | 54 | Elevator doors, metal (see elevator cabs). | | Embossing presses (printing & embossing) | 907 |
| Electric lighting generators. | 473 | Electrical castings..... | 200 | Elevator doors, metal covered | 367 | Embossing punches | 924 |
| Electric lighting plants for yachts | 351 | Electrical contractors | 352 | Elevator doors, metal covering | 367 | Embossing size | 374 |
| Electric lighting sets..... | 351 | Electrical derricks..... | 309 | Elevator doors, metal covered | 367 | Embossing & drop carving machines | 638 |
| Electric locomotive cranes... | 293 | Electrical engineers..... | 409 | Elevator gates, automatic... | 367 | Embroidering machines | 638 |
| Electric locomotives | 590 | Electrical engineers & contractors | 352 | Elevator gates, folding (see gates, folding). | | Embroidery looms | 1126 |
| Electric massage machines.. | 636 | Electrical equipment, automobile | 41 | Elevator gates & guards, folding | 368 | Embroidery machines | 1122 |
| Electric meters (see wattmeters). | | Electrical fibre | 433 | Elevator gates & guards, folding | 368 | Emergency tools | 1144 |
| Electric mine signals..... | 1045 | Electrical fittings | 442 | Elevator gates & guards, folding | 368 | Emery grinders | 494 |
| Electric mining hoists..... | 533 | Electrical friction tape..... | 1111 | Elevator gates & guards, folding | 368 | Emery grinders, pneumatic.. | 896 |
| Electric mining locomotives. | 590 | Electrical iron | 555 | Elevator gates & guards, folding | 368 | Emery grinding machines (see grinders, emery). | |
| Electric mining motors..... | 787 | Electrical iron & steel sheet | 560 | Elevator guides..... | 498 | Emery mfrs | 374 |
| Electric motor brakes..... | 89 | Electrical machinery repairs | 942 | Elevator guides, cold compressed steel..... | 368 | Emery rock mills | 778 |
| Electric motor controllers... | 272 | Electrical parts & fittings (stamped) | 362 | Elevator indicators..... | 542 | Emery steel mfrs..... | 374 |
| Electric motor lubricators.. | 594 | Electrical porcelain machinery | 637 | Elevator insurance & inspection | 547 | Emery stones | 1091 |
| Electric motors..... | 786 | Electrical slate..... | 1051 | Elevator mfrs. (see elevators). | | Emery testing machines | 669 |
| Electric motors for flexible shaft | 787 | Electrical supplies..... | 362 | Elevator mfrs. (see elevators). | | Emery, Turkish | 1159 |
| Electric motors, single phase railway | 787 | Electrical testing instruments & meters..... | 1117 | Elevator motors, electric... | 786 | Emery wheel dressers | 374 |
| Electric neutralizer..... | 792 | Electrical testing & measuring instruments | 545 | Elevator mouldings, ornamental steel..... | 368 | Emery wheels, vulcanized rubber | 374 |
| Electric novelties..... | 351 | Electrical wire & cable covering machinery..... | 674 | Elevator pumps..... | 917 | Emery & corundum mfrs.... | 374 |
| Electric organ blowing motors | 787 | Electrical wood mouldings.. | 788 | Elevator registers..... | 368 | Emery & corundum wheel mfrs | 375 |
| Electric or phonoscopic detectors | 819 | Electrical wood turnings... | 1211 | Elevator repairers..... | 368 | Emery & corundum wheels with safety collars..... | 375 |
| Electric ovens..... | 799 | Electrically welded wire fence | 431 | Elevator rope (see wire rope, etc.). | | Employers' liability insurance | 546 |
| Electric pocket lamps..... | 574 | Electricians (see electrical contractors). | | Elevator safety controllers.. | 368 | Enamel carriage cloth (rubber & enamel)..... | 1000 |
| Electric porcelain supplies (see cleats, porcelain & clay). | | Electricians' drills & bits... 328 | | Elevator safety devices.... | 368 | Enamel & porcelain paints, English | 811 |
| Electric portable drills..... | 324 | Electricians' tools (see tools, linemen's). | | Elevator safety locks..... | 368 | Enameled brick mfrs..... | 101 |
| Electric portable grinders.... | 494 | Electricians' & bell hangers' bits | 64 | Elevator safety stops..... | 368 | Enameled cloth machinery.. | 638 |
| Electric portable lamps..... | 573 | Electro bronze plated iron mantels | 749 | Elevator sash iron..... | 368 | Enameled dry poles for silk dyers | 1121 |
| Electric power generators.. | 473 | Electro chemical engineers.. | 409 | Elevator scales..... | 1020 | Enameled handles | 501 |
| Electric power transmitting machinery | 655 | Electro dental machinery... | 637 | Elevator self starters, electric | 368 | Enameled hollow ware..... | 375 |
| Electric power & lighting machinery | 351 | Electro magnets | 744 | Elevator service hydraulic pumps | 918 | Enameled iron bath tubs... | 51 |
| Electric protective devices.. | 352 | Electro magnets, special winding of | 365 | Elevator shaft grease (cable & elevator shaft)..... | 491 | Enameled iron closet tanks.. | 1106 |
| Electric pump controllers... | 272 | Electro mechanical gongs... | 483 | Elevator siding..... | 368 | Enameled iron reflectors.... | 939 |
| Electric pumps..... | 917 | Electro plating..... | 365 | Elevator signals..... | 369 | Enameled iron signs | 1046 |
| Electric push buttons (see push buttons). | | Electro plating anodes.... | 10 | Elevator signals, electric... | 336 | Enameled iron station signs. | 1046 |
| Electric railway contractors. | 252 | Electro plating bronze..... | 366 | Elevator signals, flash..... | 369 | Enameled metal tile | 1137 |
| Electric railway controller regulators | 940 | Electro plating dynamos... | 335 | Elevator supplies..... | 369 | Enameled rings..... | 375 |
| Electric railway forgings... | 447 | Electro plating machines... | 637 | Elevator switches, belt & reversing | 369 | Enameled steel sign signals.. | 1045 |
| Electric railway gears (see gears & pinions). | | Electro & linotype sawing machines | 637 | Elevator tanks..... | 1106 | Enameled terra cotta, architectural | 1116 |
| Electric railway motors (see generators, street railway). | | Electro-pneumatic system of control | 366 | Elevator weights..... | 1190 | Enameled tile | 1137 |
| Electric railway signals..... | 1045 | Electrodes | 365 | Elevators, automatic safety. | 369 | Enameled ware mfrs. plumbers' (see bath tubs, enameled iron). | |
| Electric railway supplies... | 934 | Electrograph, drop light... | 365 | Elevators, barrel & package. | 369 | Enameled & porcelain guides | 1123 |
| Electric regulators..... | 941 | Electroliers (see gas & electric fixtures). | | Elevators, bucket..... | 369 | Enamelers | 375 |
| Electric rock drills..... | 324 | Electrolytic refiners..... | 366 | Elevators, carriage..... | 369 | Enamelers, glass | 475 |
| Electric rosettes..... | 999 | Electroplating chemicals (nickel & electroplating).. | 222 | Elevators, coal (see conveyors, coal). | | Enameling muffler, furnaces | 455 |
| Electric sidewalk elevators. | 370 | Electrotype cabinets..... | 178 | Elevators, combination hand & power | 369 | Enameling muffles | 789 |
| Electric sign flashes..443 & 1045 | | Electrotype machinery..... | 637 | Elevators, concrete mixer... | 369 | Enameling ovens | 799 |
| Electric signs | 1046 | Electrotype trimming machines | 637 | Elevators, cotton..... | 369 & 1122 | Enamels | 375 |
| Electric soldering irons.... | 1056 | Electrotyping plumbago | 837 | Elevators, double platform.. | 369 | Enamels, air drying..... | 376 |
| Electric speed controllers... | 272 | Elevating doors..... | 319 | Elevators, electric..... | 369 | Enamels, aluminum..... | 376 |
| Electric speed indicators... | 542 | Elevating & conveying machinery | 637 | Elevators, electric sidewalk. | 370 | Enamels, baking | 376 |
| Electric stage light appliances | 1063 | Elevator air cushions..... | 366 | Elevators, farm portable... | 370 | Enamels, bath tub..... | 376 |
| Electric static machines..... | 666 | Elevator annunciators..... | 366 | Elevators for crushing plants | 370 | Enamels, bedstead..... | 376 |
| Electric subway contractors. | 252 | Elevator belting mfrs..... | 61 | Elevators, foundry..... | 370 | Enamels, brewers' | 376 |
| Electric switch handles..... | 501 | Elevator belts (belt or elevator) | 79 | Elevators, freight & passenger | 370 | Enamels, for tiling concrete and plaster | 376 |
| Electric switches (see switches, various kinds). | | Elevator boots..... | 83 | Elevators, gravel, hydraulic. | 373 & 491 | Enamels, gold, washable... | 376 |
| Electric telephone condensers | 247 | Elevator buckets..... | 113 | Elevators, gravity..... | 373 | Enamels, iron | 376 |
| Electric third rail system.. | 1134 | Elevator builders, grain.... | 484 | Elevators, hand..... | 373 | Enamels, porcelain | 376 |
| Electric torches | 1147 | Elevator cables (see wire rope & cables). | | Elevators, hod..... | 373 | Enamels, radiator | 376 |
| Electric toy motors..... | 787 | Elevator cars (see wire rope & cables). | | Elevators, hydraulic..... | 373 | Enamels, stove pipe..... | 376 |
| Electric train connectors.... | 249 | Elevator car signals (see elevator signals). | | Elevators, hydraulic gravel.. | 373 | Encaustic floor tile..... | 1137 |
| Electric transfer tables, for railroads | 1149 | Elevator castings..... | 200 | Elevators, incline (see stairways, moving). | | Enclosed fuses | 460 |
| Electric traveling cranes... | 293 | Elevator compounds..... | 241 | Elevators, invalid, hand & belt power | 373 | Enclosures, elevator | 367 |
| Electric traveling hoists.... | 533 | | | Elevators, passenger & freight | 370 | End gate catches..... | 207 |
| Electric trolley hoists..... | 533 | | | Elevators, plunger | 374 | End gate plates..... | 830 |

| | Page | | Page | | Page | | Page |
|--|------------|--|------|--|-----------|--|------|
| Engine brasses (car & engine)..... | 90 | Engines, fire (steam)..... | 436 | Excavating buckets (dredging & excavating)..... | 113 | Eye bending & eye bolt machines..... | 638 |
| Engine cleaning waste machines..... | 1132 | Engines for fan driving, etc..... | 414 | Excavating conveyors, trench..... | 277 | Eye bolts (hook & eye)..... | 81 |
| Engine connected ventilating fans (see blower mfrs.)..... | | Engines, gas & gasoline..... | 414 | Excavating machinery..... | 638 | Eye bolts, expansion..... | 81 |
| Engine house door springs..... | 1060 | Engines, greenhouse & garden..... | 416 | Excavating machinery for drainage ditches..... | 638 | Eye protectors & goggles..... | 483 |
| Engine house heaters..... | 519 | Engines, haulage..... | 416 | Excavating machinery for irrigation canals..... | 638 | Eye rods..... | 948 |
| Engine house hinges..... | 529 | Engines, high duty pumping..... | 417 | Excavating machinery for sewer & trench..... | 663 | Eye shades (see goggles & eye protectors)..... | |
| Engine lathe grinding attachments..... | 496 | Engines, hoisting..... | 417 | Excavating machines, sewer & trench..... | 663 | Eyelet machines..... | 638 |
| Engine lathes..... | 577 | Engines, hoisting, contract-ors..... | 418 | Excavating & refilling machinery..... | 638 | Eyelet mfrs..... | 428 |
| Engine oilers..... | 796 | Engines, hoisting, gas or gasoline..... | 418 | Excavating & screening plants, sand, portable..... | 1001 | Eyelet sets..... | 428 |
| Engine shields & guards..... | 376 | Engines, hoisting, pneumatic..... | 419 | Excavators, drainage..... | 426 | Eyes, bleachery, rubber..... | 66 |
| Engine starters, automobile..... | 376 & 1066 | Engines, hot air, pumping..... | 419 | Excavators, placer mining..... | 426 | Eyes, brace (hooks & eyes)..... | 537 |
| Engine stops, speed limit..... | 376 | Engines, hydraulic, for blowing church organs..... | 419 | Excavators, railroad..... | 426 & 929 | Eyes, brass & steel (hooks & eyes)..... | 537 |
| Engine torches (shop & engine)..... | 1148 | Engines, hydraulic pumping..... | 419 | Excavators, skid..... | 426 | Eyes, bulls'..... | 428 |
| Engine trucks, gasoline..... | 1154 | Engines, incline cableway..... | 419 | Excavators, steam..... | 426 | Eyes, dead..... | 428 |
| Engine & boiler combined..... | 377 | Engines, logging..... | 419 | Excelsior baling presses..... | 905 | Eyes, gate (hooks & eyes)..... | 537 |
| Engine & car brasses..... | 90 | Engines, marine, alco-vapor..... | 419 | Excelsior knives..... | 567 | Eyes, screw..... | 1026 |
| Engine & machine oilers..... | 796 | Engines, marine, gasoline..... | 419 | Excelsior machinery..... | 638 | Eyes, shuttle..... | 1129 |
| Engineering schools & colleges..... | 377 | Engines, marine railway..... | 420 | Excelsior mfrs..... | 426 | | |
| Engineering & surveying instruments..... | 378 | Engines, marine steam..... | 420 | Exhaust fans..... | 429 | Fabric cutters, knit..... | 1121 |
| Engineers, architectural & structural, consulting..... | 379 | Engines, mining..... | 420 | Exhaust heads..... | 427 | Fabric cutting machines..... | 634 |
| Engineers, blast furnace..... | 379 | Engines, mounted on wheels..... | 420 | Exhaust injectors..... | 544 | Fabric pin ticket machines..... | 1122 |
| Engineers, bridge designing..... | 379 | Engines, naphtha..... | 420 | Exhaust or ventilating fans..... | 429 | Fabric slitters & rewinders, knit..... | 1124 |
| Engineers (cement plants)..... | 379 | Engines, oil..... | 420 | Exhaust tumbling mills..... | 778 | Fabricators, steel building (see steel structural work)..... | |
| Engineers, chemical..... | 379 | Engines, oil well drilling..... | 420 | Exhaust valves..... | 1166 | Fabrics, translucent..... | 1149 |
| Engineers, civil, mechanical & mining..... | 379 | Engines, pile driving..... | 420 | Exhausters, electric..... | 427 | Face grinders..... | 494 |
| Engineers, consulting..... | 409 | Engines, pneumatic..... | 420 | Exhausters, gas..... | 427 | Face milling cutters..... | 301 |
| Engineers, consulting, for the supervision of concrete construction..... | 409 | Engines, portable..... | 421 | Exhausters, planing mill, etc..... | 427 | Facing arms..... | 428 |
| Engineers, contracting..... | 409 | Engines, portable hoisting..... | 421 | Exhausters, pump & engine starting..... | 428 | Facing lathes..... | 577 |
| Engineers, electrical..... | 409 | Engines, portable on wheels..... | 421 | Exhausters, steam jet..... | 428 | Facing machines, cylinder..... | 634 |
| Engineers, electrical (engineers & contractors)..... | 352 | Engines, pumping (see pumping machinery)..... | | Exhausters & blowers, electric..... | 69 | Facing machines, nut..... | 649 |
| Engineers, electrochemical..... | 409 | Engines, pumping, gas & gasoline..... | 421 | Exhausters, steam..... | 428 | Facing machines, three-way..... | 638 |
| Engineers, foundry..... | 409 | Engines, reversing..... | 421 | Expanded metal fences..... | 431 | Facing machines, tile..... | 669 |
| Engineers, gas..... | 409 | Engines, rocking valve..... | 421 | Expanded metal fireproofing..... | 440 | Facing machines, wheel..... | 672 |
| Engineers, hand lamps..... | 573 | Engines, rolling mill..... | 421 | Expanded metal lath..... | 576 | Facings & supplies, foundry..... | 451 |
| Engineers, heating & ventilating, contracting..... | 528 | Engines, self oiling..... | 422 | Expanded metal lockers..... | 588 | Factory brushes..... | 111 |
| Engineers, heating & ventilating, consulting..... | 528 | Engines, steam..... | 422 | Expanders, cloth (Mycrocks)..... | 1119 | Factory churns, box..... | 225 |
| Engineers, hydraulic..... | 409 | Engines, steam turbine (see turbines, steam)..... | | Expanders, flue pneumatic..... | 896 | Factory door hinges..... | 529 |
| Engineers, industrial (see engineers, mill)..... | | Engines, toy or small..... | 425 | Expanders, hose..... | 428 | Factory equipments, steel..... | 1072 |
| Engineers, liquid fuel..... | 410 | Engines, traction..... | 425 | Expanders, tube..... | 428 | Factory scales..... | 1020 |
| Engineers, marine (see architects, naval)..... | | Engines, traction, gasoline..... | 425 | Expanding chucks..... | 224 | Factory supplies (mill & factory)..... | 770 |
| Engineers, mechanical..... | 379 | Engines, vertical..... | 426 | Expanding dies, adjustable..... | 310 | Factory time checks..... | 222 |
| Engineers, mill..... | 410 | Engines, winding..... | 426 | Expanding machines, coupling..... | 633 | Factory torches..... | 1147 |
| Engineers, mining..... | 411 | Engines, yacht or launch..... | 426 | Expanding mandrels..... | 745 | Factory torches, acetylene..... | 1147 |
| Engineers, modernizing..... | 411 | English bath enamel & porcelain paints..... | 811 | Expanding & flanging machinery, pipe..... | 654 | Factory trucks..... | 1155 |
| Engineers, power plant..... | 411 | English casement sashes..... | 1015 | Expansion bolt & shield..... | 79 | Factory whistles..... | 1196 |
| Engineers, reinforced concrete..... | 411 | English enamel & porcelite paints..... | 811 | Expansion bolts & shield..... | 80 | Factory & mill sites..... | 428 |
| Engineers, sanitary..... | 411 | English hall clocks..... | 230 | Expansion bolts, for concrete work..... | 81 | Faience, architectural..... | 35 |
| Engineers' bulletin..... | 411 | English Portland cement importers..... | 211 | Expansion bolts, single & double..... | 81 | Faience mantels..... | 749 |
| Engineers' draughting tables (see drawing tables)..... | | Engraved metal signs..... | 1046 | Expansion boring tools..... | 1144 | Fair leaders..... | 582 |
| Engineers' instruments & supplies (architects' & engineers')..... | 34 | Engraved soap dies..... | 311 | Expansion couplings..... | 290 | Falk process of welding..... | 1190 |
| Engineers' oiling sets..... | 797 | Engravers' copper roll..... | 1122 | Expansion eye bolts..... | 81 | Fall line balls..... | 45 |
| Engineers' supplies, etc..... | 411 | Engravers' textile print roll..... | 1122 | Expansion joints..... | 564 | Fallers, combs & circles..... | 1120 |
| Engineers' & machinists' hand lamps..... | 573 | Engravers' transfer presses..... | 904 | Expansion plates..... | 830 | Family knitting machines..... | 1125 |
| Engineers' & machinists' wrenches..... | 1212 | Engraving machines..... | 638 | Expansion reamers..... | 937 | Family scales..... | 1020 |
| Engines..... | 412 | Engraving machines, print works..... | 1122 | Expansion switch board bolts..... | 81 | Fan blades, metal..... | 65 |
| Engines, air..... | 412 | Enslage cutters..... | 301 | Expansion tanks..... | 1106 | Fan blowers (see blower mfrs)..... | |
| Engines, alcohol..... | 412 | Enslage knives..... | 567 | Expansive bits..... | 64 | Fan engine regulators..... | 941 |
| Engines, artesian well (see pumps, artesian well)..... | | Entrance doors, metal covered..... | 319 | Experimental work & models..... | 782 | Fan motors, electric..... | 786 |
| Engines, automatic..... | 412 | Entrance gates (driveway & entrance)..... | 466 | Explosives, Joveite..... | 564 | Fan pumps, papermakers'..... | 919 |
| Engines, automobile..... | 412 | Enuphyll bronze construction, arch'l & interior..... | 426 | Exporters, metal (importers & exporters)..... | 768 | Fan system heating..... | 527 |
| Engines, beating..... | 412 | Envelope machines..... | 638 | Express barrows (baggage & express)..... | 48 | Fan & stuff pumps..... | 917 |
| Engines, blowing..... | 412 | Envelope sealing machines..... | 638 | Express car safes..... | 1001 | Fancy box hinges..... | 529 |
| Engines, bridge erecting..... | 412 | Equalizing gears, automobile..... | 470 | Express company call..... | 428 | Fancy box trimmings..... | 1152 |
| Engines, chemical..... | 412 | Envelopes, pliable metal..... | 426 | Express messenger boxes..... | 84 | Fancy looms..... | 1126 |
| Engines, chemical, fire..... | 436 | Equipments, drawbridge, electric..... | 321 | Extension blades, shoe cutters'..... | 66 | Fanning mills..... | 778 |
| Engines, compound..... | 412 | Equipments, foundry plant..... | 451 | Extension brace irons..... | 561 | Fans, ceiling..... | 428 |
| Engines, compressed air..... | 412 | Equipments, turntable..... | 1159 | Extension rules..... | 1000 | Fans, centrifugal..... | 428 |
| Engines, contractors' hoisting..... | 418 | Eradicators, ink..... | 426 | Extension sash curtain rods..... | 948 | Fans, desk & office..... | 428 |
| Engines, Corliss..... | 412 | Erasers, draughtsmen's..... | 426 | Extension scaffold ladders..... | 571 | Fans, direct connected engine..... | 428 |
| Engines, deck..... | 413 | Erasers, ink..... | 426 | Extension springs..... | 1060 | Fans, electric..... | 428 |
| Engines, deep well pumping..... | 413 | Erasers, rubber..... | 426 | Extinguishers, fire..... | 438 | Fans, exhaust & ventilating..... | 429 |
| Engines, direct connected & belted..... | 413 | Erecting cableways..... | 426 | Extinguishers, fire "Little Giant"..... | 439 | Fans, power (see blowers)..... | |
| Engines, distillate..... | 413 | Escalators (see stairways, moving)..... | | Extract wood chippers..... | 223 | Fans, propeller..... | 429 |
| Engines, drawbridge..... | 413 | Escapes, fire (see fire escapes, various kinds)..... | | Extractors, broken tap..... | 428 | Fans, ventilating, engine connected (see blower mfrs)..... | |
| Engines, dredging..... | 413 | Escutcheon pins..... | 426 | Extractors, grease & oil..... | 796 | Fans, ventilating (exhaust & ventilating)..... | 429 |
| Engines, fire (chemical)..... | 436 | Escutcheons, wood, keyhole..... | 426 | Extractors, ingot..... | 543 | Fans, ventilating mine..... | 429 |
| Engines, fire (gasoline)..... | 436 | Estimate books, plumbers'..... | 892 | Extractors, interior dust & dirt..... | 428 | Fans, water motor..... | 429 |
| Engines, fire (hand)..... | 436 | Etched buckles..... | 114 | Extractors, mandrel..... | 428 | Fare boxes..... | 84 |
| | | Etched metal signs..... | 1046 | Extractors (oil & grease)..... | 796 | Farm anvils..... | 11 |
| | | Euclid stone laundry tubs..... | 580 | Extracts, bark..... | 428 | Farm bells..... | 57 |
| | | Evaporating pans..... | 815 | Extracts, dyewood..... | 334 | Farm elevators, portable..... | 370 |
| | | Evaporators..... | 426 | Extracts, tanning..... | 428 | Farm gates..... | 466 |
| | | Evaporators, multiple effects..... | 1098 | Eye bars..... | 50 | Farm land ditching machines..... | 638 |
| | | Evaporators & fresh water distilling apparatus..... | 426 | Eye benders, hand power (angle & eye)..... | 62 | Farm wagons..... | 1181 |
| | | Evener motions..... | 1126 | | | Farm wagons, electric..... | 1182 |

| Page | | Page | | Page | | Page | |
|---|------|---|------|---|------|---|------|
| Fastener & clip machines, paper..... | 651 | Fences, woven wire..... | 431 | Fillers, iron & steel..... | 560 | Fir doors (cedar & fir)..... | 318 |
| Fasteners, belt..... | 58 | Fences & gates, wire..... | 1203 | Fillers, ice can..... | 542 | Fire alarm bells, electric..... | 57 |
| Fasteners, blind..... | 429 | Fencing, iron..... | 555 | Fillers, milk bottle..... | 84 | Fire alarm signal boxes..... | 85 |
| Fasteners, box..... | 429 | Fencing pliers..... | 832 | Fillers, paper & paint..... | 816 | Fire alarm whistles..... | 1196 |
| Fasteners, box board & shook..... | 84 | Fender springs, car..... | 1059 | Fillers, papermakers' (colors & fillers)..... | 240 | Fire alarms, manual & automatic systems..... | 8 |
| Fasteners, corrugated steel..... | 429 | Fenders, brass & iron..... | 432 | Fillers, wood..... | 1209 | Fire alarms, thermostatic & automatic system..... | 8 |
| Fasteners, curtain..... | 429 | Fenders, car..... | 181 | Fillet leather..... | 434 | Fire boat hydrants..... | 541 |
| Fasteners, freight car door..... | 430 | Fenders, range..... | 936 | Fillet leather cutters..... | 301 | Fire boat machinery..... | 639 |
| Fasteners, guard rail..... | 430 | Fenders & guards, automobile..... | 432 | Fillet presses..... | 905 | Fire boat nozzles..... | 792 |
| Fasteners, horse blanket..... | 430 | Ferro-alloys..... | 432 | Fillet winders..... | 1133 | Fire boat water towers..... | 1188 |
| Fasteners, lath, metallic..... | 576 | Ferro-chrome..... | 432 | Fillets, pattern..... | 434 | Fire box boilers, heating & power..... | 436 |
| Fasteners, nut & bolt..... | 430 | Ferroinclave fireproof floors & partitions..... | 440 | Filling belt..... | 58 | Fire box sheets, copper..... | 278 |
| Fasteners, sash..... | 430 | Ferroinclave roofing..... | 993 | Filling boxes, tin..... | 1118 | Fire brick mfrs..... | 101 |
| Fasteners, seat..... | 430 | Ferroinclave steel concrete fireproofing..... | 440 | Filling machines, automatic bottle..... | 622 | Fire buckets..... | 113 |
| Fasteners, slate..... | 1051 | Ferro-manganese & ferro-silicon..... | 432 | Filling machines, bag..... | 619 | Fire cements..... | 213 |
| Fasteners, storm window..... | 430 | Ferro-molybdenum..... | 432 | Filling machines, can..... | 625 | Fire clay..... | 436 |
| Fasteners, window..... | 430 | Ferro-phosphorus..... | 432 | Filling machines, package..... | 650 | Fire clay, magnesite..... | 436 |
| Faucet filters..... | 434 | Ferro-tungsten..... | 432 | Filling machines, syrup canners..... | 668 | Fire clay round house smoke jacks..... | 999 |
| Faucet or blbb re-seating machines..... | 638 | Ferrules, brass..... | 432 | Filling & folding machines, power..... | 655 | Fire crane attachments, hydraulic..... | 541 |
| Faucets..... | 430 | Ferrules, copper..... | 432 | Filling & sewing machines (bag & sack)..... | 619 | Fire department nozzles..... | 792 |
| Faucets, hot water..... | 430 | Ferrules, hard fibre (see fibre mfrs., hard)..... | 432 | Filling cloth mfrs..... | 434 | Fire department sliding poles..... | 436 |
| Faucets, molasses..... | 430 | Ferrules, iron & steel..... | 432 | Filter cloth mfrs..... | 434 | Fire department supplies..... | 436 |
| Faucets, self-measuring..... | 430 | Ferrules, lead (lead traps, bends & ferrules)..... | 582 | Filter press cocks..... | 235 | Fire detecting wire..... | 1204 |
| Faucets, stoneware..... | 430 | Ferrules, screw driver..... | 433 | Filter press plates..... | 830 | Fire door fittings, automatic..... | 436 |
| Faucets, wood..... | 430 | Ferrules, tin & sheet metal..... | 433 | Filter press pumps..... | 917 | Fire door hangers..... | 317 |
| Feather dusting machines..... | 638 | Ferrules, wire..... | 433 | Filter presses..... | 905 | Fire door latches..... | 575 |
| Feather washing machines..... | 638 | Ferry boat gates..... | 466 | Filter tanks..... | 1106 | Fire door, riveting machines..... | 659 |
| Feed cookers..... | 277 | Fertilizer conveyors..... | 274 | Filtering joints..... | 564 | Fire doors, automatic..... | 436 |
| Feed cutters..... | 301 | Fertilizer drills..... | 324 | Filtering machinery, clay..... | 629 | Fire doors, automatic elevator..... | 366 |
| Feed grinding mills..... | 779 | Fertilizer dryers..... | 330 | Filtering sand..... | 434 | Fire doors, drop..... | 318 |
| Feed rolls, card..... | 1129 | Fertilizer machinery..... | 638 | Filtering & aerating water plants..... | 434 | Fire doors, tin clad..... | 319 |
| Feed screws..... | 1028 | Fertilizer mixers..... | 782 | Filtering & purifying plants installed..... | 434 | Fire enameling (see fire gilt & fire enameling)..... | |
| Feed water filters..... | 434 | Fetter drive screws..... | 1028 | Filters, ale & beer..... | 434 | Fire engine & engine house heaters..... | 519 |
| Feed water governors (see regulators, feed water)..... | | Fiberloid mfrs. (celluloid, fiberloid & pyralin)..... | 207 | Filters, bag..... | 1098 | Fire engines, chemical..... | 436 |
| Feed water heaters..... | 519 | Fibre, asbestos..... | 36 | Filters, charcoal..... | 434 | Fire engines, gasoline..... | 436 |
| Feed water purifiers..... | 925 | Fibre, asbestos corded..... | 36 | Filters, faucet..... | 434 | Fire engines, hand..... | 436 |
| Feed water regulators..... | 941 | Fibre, brush..... | 483 | Filters, feed water..... | 434 | Fire engines, steam..... | 436 |
| Feeder clutch attachments..... | 1122 | Fibre buckets..... | 113 | Filters, gravity & pressure..... | 434 | Fire escapes..... | 436 |
| Feeder wire..... | 1203 | Fibre cleaning machines..... | 638 | Filters, mechanical..... | 1098 | Fire escapes, automatic..... | 437 |
| Feeders, aluminum, railway..... | 430 | Fibre, electrical..... | 433 | Filters, oil..... | 434 | Fire escapes, chain ladder..... | 437 |
| Feeders, automatic self-weighing scale..... | 1122 | Fibre gears..... | 472 | Filters, oil refiners..... | 435 | Fire escapes, Covert patent..... | 437 |
| Feeders, boiler..... | 430 | Fibre, hard, special shapes..... | 433 | Filters, sand..... | 435 | Fire escapes, "Kirker Bender"..... | 437 |
| Feeders, boiler compound..... | 430 | Fibre, insulating..... | 545 | Filters, Tripoli..... | 435 | Fire escapes, rolling..... | 437 |
| Feeders, boiler oil..... | 430 | Fibre machinery..... | 638 | Filters, waste oil..... | 435 | Fire escapes, rope..... | 437 |
| Feeders, coal dust (see burners, coal dust)..... | | Fibre mfrs., hard..... | 433 | Filters, water..... | 435 | Fire extinguisher tanks..... | 1106 |
| Feeders, fuel..... | 431 | Fibre pails..... | 805 | Filters, water, portable..... | 435 | Fire extinguisher tanks, seamless steel..... | 1109 |
| Feeders, furnace..... | 431 | Fibre, plastering..... | 830 | Filters & kilns, char..... | 1097 | Fire extinguisher valves..... | 1166 |
| Feeders, furnace, automatic..... | 454 | Fibre products, flax..... | 444 | Filters & kilns, charcoal, etc..... | 435 | Fire extinguishers..... | 438 |
| Feeders, ore..... | 431 | Fibre pulleys..... | 911 | Fine steel wire fly killers..... | 446 | Fire extinguishers, "Little Giant"..... | 439 |
| Feeders, stone sawing..... | 431 | Fibre rods (see fibre mfrs., hard)..... | | Fine tools, machinists..... | 681 | Fire extinguishers, steam..... | 439 |
| Feeders, sugar cane carrier..... | 431 | Fibre signs, rope..... | 1046 | Finger feed presses..... | 905 | Fire extinguishers & disinfecting apparatus..... | 439 |
| Feeders & openers, wool washer..... | 1127 | Fibre tanks, indurated..... | 1107 | Finger nail clippers..... | 230 | Fire felt, asbestos..... | 36 |
| Feeding machines, box nail..... | 623 | Fibre trucks..... | 1154 | Finials, galvanized steel roofing..... | 435 | Fire flashed brick mfrs..... | 103 |
| Feeds or feeders..... | 1122 | Fibre valves..... | 1166 | Finials, sheet metal (crestings & finials)..... | 297 | Fire floors & partitions..... | 439 |
| Feeds, roll & dlat..... | 431 | Fibre ware, indurated..... | 543 | Finials & crestings..... | 296 | Fire gilt & fire enameling..... | 439 |
| Feeds, saw mill, steam..... | 1016 | Fibre washers..... | 1184 | Finials & crestings, sheet metal..... | 297 | Fire hose..... | 539 |
| Feeds, sight, for oiling devices..... | 1045 | Fibrous & staff plaster mfrs..... | 827 | Finials & crestings, terra cotta (see roofing tile, terra cotta)..... | | Fire hose reels & racks..... | 939 |
| Feeds, steam..... | 1066 | Flds, hand & stretching..... | 433 | Finish, flattine cabinet..... | 435 | Fire hose shut-off..... | 439 |
| Feet, lounge..... | 592 | Feld coil winding machines..... | 638 | Finish, flattine wood..... | 435 | Fire hydrant chains..... | 218 |
| Feldspar roofing..... | 993 | Feld coils (armature & field)..... | 238 | Finish, floor..... | 444 | Fire hydrants..... | 541 |
| Felloe machinery (see carriage builders' machinery)..... | | Feld rollers (land & field)..... | 949 | Finish, hard oil..... | 505 | Fire hydrants, crane attachment..... | 541 |
| Felloe planing machines..... | 638 | Field & office supplies, civil engineers..... | 225 | Finish, hard oil "Luxeberry"..... | 435 | Fire kindler locomotive..... | 589 |
| Felloe plates..... | 830 | Field & office supplies, surveyors..... | 1100 | Finish, interior, metal covered..... | 547 | Fire mortar & kaolin..... | 439 |
| Felt, asbestos fire..... | 36 | Fifth wheels..... | 1193 | Finish, interior, wholesale mfrs..... | 547 | Fire place dampers, etc..... | 305 |
| Felt, building sheathing..... | 175 | Figured glass..... | 475 | Finish, wall..... | 1183 | Fire place furnishing mfrs..... | 439 |
| Felt cards..... | 1119 | Figured rolled plate glass..... | 479 | Finished forgings..... | 447 | Fire place heaters..... | 519 |
| Felt hardeners..... | 431 | Figures, lead..... | 433 | Finished machine parts..... | 618 | Fire place thimbles..... | 1134 |
| Felt machinery..... | 1122 | Figures, pattern (letters & figures)..... | 582 | Finishes, elastica..... | 436 | Fire pots..... | 902 |
| Felt mills..... | 431 | Figures & alphabets, steel..... | 9 | Finishes, "Luxeberry"..... | 436 | Fire-proof architectural interiors..... | 439 |
| Felt pipe & boiler coverings..... | 824 | File handles..... | 501 | Finishing gills..... | 1123 | Fire-proof book stacks (see library shelving & fittings, metallic)..... | |
| Felting looms..... | 1126 | File holders..... | 535 | Finishing machines..... | 639 | Fire-proof building materials..... | 439 |
| Felting machines, cotton..... | 1122 | File machinery..... | 638 | Finishing machines, bandage..... | 1122 | Fire-proof columns..... | 240 |
| Felting mfrs., asbestos..... | 36 | File renewing..... | 433 | Finishing machines, carpet..... | 1122 | Fire-proof constructors..... | 439 |
| Felts, asphalt & saturated..... | 431 | File room machinery..... | 638 | Finishing machines, cloth..... | 1122 | Fire-proof doors, metal..... | 319 |
| Felts, deadening..... | 431 | File sharpeners..... | 1036 | Finishing machines, knit goods..... | 1122 | Fire-proof doors, revolving..... | 320 |
| Felts for electrical purposes..... | 431 | File & rasp mfrs..... | 433 | Finishing machines, leather..... | 645 | Fire-proof doors & shutters..... | 320 |
| Felts, hair..... | 431 | Files, horse tooth..... | 434 | Finishing machines, nut..... | 649 | Fire-proof doors & shutters, steel rolling..... | 320 |
| Felts, polishing..... | 431 | Files, side, for saws..... | 1045 | Finishing machines, ribbon..... | 1122 | Fire-proof dumb waiter doors..... | 332 |
| Felts, roofing..... | 431 | Files, side, side dressers for..... | 1045 | Finishing machines, tape..... | 1123 | Fire-proof elevator shafts (see fire-proof floors & partitions)..... | |
| Fence, electrically welded wire..... | 431 | Files, "Weed's" silt taper..... | 434 | Finishing machines, wool & worsted..... | 1123 | Fire-proof floors, asbestolith..... | 439 |
| Fence machines..... | 638 | Filing cabinets, blue print..... | 69 | Finishing nails..... | 789 | Fire-proof floors, Bromley's patent..... | 439 |
| Fence machines, woven wire..... | 677 | Filing cabinets & devices..... | 434 | Finishing & sanding machines, curtain pole..... | 634 | Fire-proof floors & partitions..... | 439 |
| Fence post machines, concrete..... | 632 | Filling equipments, steel..... | 1072 | Finishing & straightening machines, roll..... | 659 | Fire-proof floors & partitions, Ferroinclave..... | 440 |
| Fence post reinforcement cables..... | 431 | Filing machines..... | 638 | | | | |
| Fence ratchets..... | 936 | Filing machines, band saw..... | 619 | | | | |
| Fence stays..... | 1066 | Filing machines & gummers, gin saw..... | 641 | | | | |
| Fences, expanded metal..... | 431 | Filing & setting machines, saw..... | 661 | | | | |
| Fences, iron (railings & fences)..... | 556 | Filler gear chains..... | 218 | | | | |
| Fences, iron & steel picket..... | 431 | Fillers, barrel..... | 434 | | | | |
| Fences, ornamental iron (see gates, ornamental iron)..... | | Fillers, dry earth..... | 434 | | | | |
| | | Fillers, iron casting..... | 434 | | | | |

| | Page | | Page | | Page | | Page |
|---|------|---|------|--|------------|--|------------|
| Fire-proof, hollow tile | 440 | Fittings, brass pipe railing.. | 441 | Flanging clamps | 227 | Flooring for stables..... | 444 |
| Fire-proof metal doors..... | 319 | Fittings, bronze | 441 | Flanging furnaces | 455 | Flooring, hardwood | 444 |
| Fire-proof partitions & floors | 439 | Fittings, car (doors & fittings) | 181 | Flanging machines | 639 | Flooring, interlocking wood (see flooring, wood block)..... | 674 |
| Fire-proof plaster boards.... | 440 | Fittings, car heater | 441 | Flanging presses | 905 | Flooring, machines, wood.... | 444 |
| Fire-proof porches | 440 | Fittings, cast iron, for gas & water mains..... | 442 | Flanging presses, hydraulic. | 906 | Flooring, maple | 445 |
| Fire-proof porous brick (see fire-proofing porous terra cotta). | 440 | Fittings, cast iron pipe..... | 442 | Flanging & expanding machinery, pipe..... | 654 | Flooring, oak | 445 |
| Fire-proof roofs, ceilings & walls, "Uralite" | 440 | Fittings, cast iron (soil, pipe & fittings) | 194 | Flash elevator signals..... | 369 | Flooring, sanitary | 445 |
| Fire-proof safes | 1001 | Fittings, coach vestibule.... | 442 | Flashes, electric sign.... | 443 & 1045 | Flooring, sawdust | 445 |
| Fire-proof shutters (see doors & shutters, fire-proof). | 1183 | Fittings, cross over..... | 442 | Flashes, tanners' | 1111 | Flooring, terrazzo | 1115 |
| Fire-proof wall paper..... | 1183 | Fittings, derrick | 308 | Flashlights (see lamps, pocket electric)..... | 227 | Flooring, wood block..... | 445 |
| Fire-proof walls, "Uralite". | 440 | Fittings, drainage | 442 | Flask clamps | 529 | Flooring, woven wire.... | 445 & 1204 |
| Fire-proof window frame & sash | 1198 | Fittings, electrical | 442 | Flask hinges | 529 | Floors, cement, for cellars, stables, etc..... | 211 |
| Fire-proof windows | 440 | Fittings, electrical, stamped (parts & fittings) | 362 | Flasks, molders' | 444 | Floors, fireproof, asbestolith. | 439 |
| Fire-proof windows, automatic | 440 | Fittings, ell..... | 442 | Flat cars | 187 | Floors, fireproof, Bromley's patent | 439 |
| Fire-proof wire glass windows | 1200 | Fittings, flanged | 442 | Flat friction hoists..... | 533 | Floors, jointless | 443 |
| Fire-proof woodwork (see fire-proofing of wood). | 440 | Fittings, furnace (pipe & fittings) | 454 | Flat revolving cards..... | 1119 | Floors, malt kiln..... | 745 |
| Fire-proofing, asbestos (see asbestos materials). | 440 | Fittings, gas fixture..... | 442 | Flat ribbed cuff machines.... | 1121 | Floors, mosaic wood..... | 1209 |
| Fire-proofing, Bostwick system | 440 | Fittings, gas line..... | 442 | Flat spring & riveted keys.. | 565 | Floors, parquet | 445 |
| Fire-proofing, Clinton system | 440 | Fittings, greenhouse..... | 442 | Flat terra cotta shingles.... | 1040 | Floors, stable or stall..... | 1063 |
| Fire-proofing constructors... | 439 | Fittings, high pressure..... | 442 | Flat & round tempered wire. | 1204 | Floors & arches, concrete.... | 244 |
| Fire-proofing, expanded metal | 440 | Fittings, hydraulic | 442 | Flattening & rolling machinery, wire | 673 | Floors & cellars, asphalt (see contractors' asphalt paving)..... | 439 |
| Fire-proofing, Ferroinclave steel concrete | 440 | Fittings, iron railing..... | 442 | Flax brakes | 89 | Floors & partitions, fire.... | 439 |
| Fire-proofing, Hayes system. | 440 | Fittings, lead lined pipe.... | 442 | Flax fibre products..... | 444 | Floors & partitions, fireproof | 439 |
| Fire-proofing, imperial system | 440 | Fittings, lead pipe (couplings & fittings) | 581 | Flax machinery | 1123 | Floors & partitions, fireproof, ferroinclave | 440 |
| Fire-proofing, international system | 440 | Fittings, pile-driver | 820 | Flax packing | 801 | Florists' wire | 1204 |
| Fire-proofing, keystone system | 440 | Fittings, pipe (various kinds) | 442 | Fleecing machines (see napping cutters)..... | 1031 | Flour blending machinery.... | 639 |
| Fire-proofing, Kuhne's system | 441 | Fittings, railing | 442 | Fleshing & slating machinery, leather..... | 645 | Flour conveyors..... | 275 |
| Fire-proofing liquids | 586 | Fittings, railway | 442 | Flexible back band saws.... | 1018 | Flour, foundry | 445 |
| Fire-proofing machinery..... | 639 | Fittings, show window..... | 443 | Flexible cords | 279 | Flour, marble | 750 |
| Fire-proofing mineral wool (see mineral wool). | 441 | Fittings, soil pipe (see cast iron soil pipe & fittings)..... | 443 | Flexible couplings | 290 | Flour mill builders..... | 445 |
| Fire-proofing, multiplex steel flooring | 441 | Fittings, steam pipe..... | 443 | Flexible joints | 564 | Flour mill machinery..... | 639 |
| Fire-proofing of wood..... | 441 | Fittings, tight joint..... | 443 | Flexible metallic hose..... | 539 | Flour packers (see packing machines)..... | 1045 |
| Fire-proofing paint machines compressed air | 639 | Fittings, vitreous enameled steel | 443 | Flexible pipe cleaning augers | 38 | Flour sieves | 1051 |
| Fire-proofing, porous terra cotta | 441 | Fittings, wash tray..... | 443 | Flexible shaft drills..... | 324 | Flour, slate | 445 |
| Fire-proofing, Roebling system | 441 | Fittings, Y..... | 443 | Flexible shaft electric motors | 787 | Flour, tripoli | 445 |
| Fire-proofing, Salamander.... | 441 | Fittings & bases..... | 50 | Flexible shaft screw drivers. | 1026 | Flour & grain weighing & packing machines, automatic | 619 |
| Fire-proofing, Schratwieser's system | 441 | Fittings & lavatories..... | 581 | Flexible shafts | 1035 | Flower pot machinery..... | 639 |
| Fire-proofing, scorch-not system | 441 | Fixture clusters | 232 | Flexible steel armored hose.. | 539 | Flower pot mfrs..... | 445 |
| Fire pumps (see pumps, steam)..... | 811 | Fixture wire | 1204 | Flexible steel tubing..... | 1157 | Flue balls (pipe & flue).... | 45 |
| Fire resisting paints..... | 475 | Fixture wrenches | 1213 | Flexible tubing, metallic.... | 1157 | Flue blowers, boiler..... | 68 |
| Fire retardant glass..... | 441 | Fixtures, awning | 42 | Flinkote roofing | 993 | Flue brushes | 111 |
| Fire sand | 441 | Fixtures, awning, blind.... | 42 | Flint, crushed | 444 | Flue cleaners (boiler flue & tube) | 228 |
| Fire screens & backs..... | 441 | Fixtures, bank, office & store | 443 | Flint linings | 444 | Flue cleaning machinery.... | 639 |
| Fire sets, brass & iron..... | 441 | Fixtures, bath room..... | 51 | Flint machines | 639 | Flue cutters | 301 |
| Fire shovels | 1044 | Fixtures, car window..... | 182 | Flint paper mfrs..... | 316 | Flue cutters, pneumatic.... | 896 |
| Fire shutters, automatic..... | 1044 | Fixtures, electric adjustable, wall & ceiling | 443 | Flint pebbles & flint linings. | 444 | Flue expanders, pneumatic.. | 896 |
| Fire shutter hinges..... | 529 | Fixtures, grindstone..... | 496 | Flippers, cant, steam..... | 181 | Flue linings | 445 |
| Fire signal whistles..... | 1196 | Fixtures, metallic, bank & office | 46 | Float valves | 1166 | Flue rattlers | 937 |
| Fire sprinklers, automatic.... | 1061 | Fixtures, stable | 1062 | Floating derricks..... | 309 | Flue rollers | 949 |
| Fire & burglar proof safes.... | 1001 | Fixtures, store & bar..... | 1092 | Floats, copper | 444 | Flue rollers, pneumatic.... | 896 |
| Fire & flame controllers, automatic | 273 | Fixtures, tank..... | 1104 | Floats, glass | 444 | Flue shearing punches..... | 924 |
| Fire & police patrol wagons.... | 1182 | Fixtures, window display.... | 1198 | Floats, life | 444 | Flue stoppers, "Peerless".... | 1092 |
| Firemen's ladders & trucks.... | 571 | Fixtures, window shade.... | 1200 | Floats, zinc | 444 | Flue welders, pneumatic.... | 896 |
| Firing tools | 1144 | Flag mfrs..... | 443 | Flock cutters | 1121 | Flue welding furnaces | 455 |
| Fishing net machinery..... | 639 | Flag pole brackets..... | 87 | Floor chisels | 223 | Flue welding machines..... | 639 |
| Fishing reels | 938 | Flag pole holders..... | 535 | Floor clips | 230 | Flue welding, steam..... | 1190 |
| Fish glue | 483 | Flag pole sockets..... | 1055 | Floor cloth & linoleum machinery | 645 | Fluid meters | 769 |
| Fish line machinery..... | 639 | Flag poles, iron | 443 | Floor deadening (see felts, deadening)..... | 444 | Fluid scales | 1020 |
| Fish line mfrs..... | 441 | Flag poles, iron & steel.... | 900 | Floor finish | 444 | Fluid, tire | 1140 |
| Fish nets & seines..... | 441 | Flag spear heads..... | 1057 | Floor grinders | 494 | Flumes, iron..... | 445 |
| Fish oil presses..... | 905 | Flag staffs, wood..... | 443 | Floor hinges | 529 | Fluor spar | 446 |
| Fish plate springs (see lock-nuts)..... | 1019 | Flag & clothes poles (see ties, poles & posts)..... | 443 | Floor hinges, spring..... | 530 | Flush pipes | 824 |
| Fish scalars | 1020 | Flag & street poles, iron & steel | 900 | Floor interlocking, wood.... | 1209 | Flush tanks | 446 |
| Fish scales | 1057 | Flags, railway signal, etc.... | 443 | Floor lights (see vault & sidewalk lights)..... | 766 | Flush & supply pipes..... | 824 |
| Fishing rod holders..... | 535 | Flaking rolls | 955 | Floor matting, electric..... | 766 | Flushers, automatic sewer.. | 446 |
| Fishing rods | 948 | Flange aprons | 11 | Floor oilers | 797 | Flushing machines, street.. | 668 |
| Fitters' clamps | 227 | Flange couplings | 290 | Floor oils, dust absorbing.... | 444 | Flushing valves | 1166 |
| Fitting machines, drawer.... | 636 | Flange flexible joint pipe.... | 822 | Floor oils, dust absorbing.... | 444 | Fluted drills | 324 |
| Fitting machines, saw..... | 661 | Flange pipe, flexible joint.. | 822 | Floor outlet boxes | 85 | Fluted rolls | 1129 |
| Fittings, acid metal..... | 441 | Flange pulleys | 911 | Floor plate, iron & steel.... | 830 | Fluting feed rod planers.... | 825 |
| Fittings, air brake..... | 441 | Flange wheels | 1193 | Floor plate mfrs., glass.... | 475 | Fluting machines, wood.... | 674 |
| Fittings, ammonia | 441 | Flange wrenches | 1213 | Floor polish, hard wax.... | 444 | Fluting & plaiting machines, | 639 & 1128 |
| Fittings, automatic fire door | 436 | Flanged boiler heads..... | 71 | Floor polishing brushes.... | 111 | Flux, soldering (see soldering paste, etc.)..... | 639 |
| Fittings, automobile (parts & fittings) | 41 | Flanged fittings | 442 | Floor polishing machines, tile & mosaic..... | 649 | Fly inserting machines..... | 566 |
| Fittings, awning frame..... | 441 | Flanged pulleys, "American" | 911 | Floor scrapers | 1023 | Fly killers | 446 |
| Fittings, brass pipe..... | 441 | Flanges, cast & malleable iron | 443 | Floor scraping machines.... | 639 | Fly killers, fine steel wire. | 816 |
| | | Flanges, companion | 443 | Floor sleeves | 444 | Fly paper | 639 |
| | | Flanges, floor & ceiling.... | 443 | Floor stands for valves.... | 444 | Fly papering machines..... | 446 |
| | | Flanges, pipe | 443 | Floor surfacing machines.... | 639 | Fly nets | 1024 |
| | | Flanges, pipe, forged steel.. | 443 | Floor tile dealers (see mantle, grate & tile dealers)..... | 1137 | Fly screens, rustless..... | 1193 |
| | | Flanges, pressed steel..... | 443 | Floor tile, encaustic..... | 1137 | Fly wheels | 1123 |
| | | Flanges, pressed steel pipe.. | 443 | Floor tile, mosaic ceramic.... | 1137 | Flyers & pressers..... | 1128 |
| | | Flanges, roof | 443 | Floor tile, non-absorbent.... | 1051 | Fodder shedders | 1135 |
| | | Flanges, snow | 443 | Floor tile, slate..... | 1051 | Fodder ties & compressors.. | 1135 |
| | | Flanges, soft steel, weldless. | 443 | Floor tile, vitreous..... | 1137 | Fog bells | 57 |
| | | Flanges, spun brass..... | 443 | Floor treads..... | 1151 | Fog, factory & fire signal whistles | 1196 |
| | | Flanges, tight joint..... | 443 | Floor wax | 444 | Fog horns | 538 |
| | | Flanges, water closet connection | 443 | Floor & ceiling flanges.... | 443 | Fog sirens | 1047 |
| | | Flanges, welded | 443 | Floor & ceiling plates..... | 830 | Folded edge fibre signs for freight cars | 1046 |

| | Page | | Page | | Page | | Page |
|-------------------------------|-------|------------------------------|------|-------------------------------|------|-------------------------------|------|
| Folding barrows, steel frame | 48 | Forging machines, hydraulic | 639 | Foundry plants, car wheel.. | 182 | Friction boards, "Hugite"... | 60 |
| Folding bath tubs..... | 51 | Forging machines, pickeye.. | 653 | Foundry plants, pipe..... | 822 | Friction clutch couplings... | 290 |
| Folding benches | 62 | Forging machines, pneumatic | 896 | Foundry rammers | 936 | Friction clutch gears..... | 472 |
| Folding blinds, inside..... | 66 | Forging machines, sheet work | 639 | Foundry rattlers | 937 | Friction clutch presses..... | 905 |
| Folding chairs | 220 | Forging presses | 905 | Foundry riddles | 943 | Friction clutch pulleys..... | 911 |
| Folding derricks..... | 309 | Forging presses, hydraulic.. | 906 | Foundry sand | 1002 | Friction clutches | 232 |
| Folding door hangers..... | 317 | Forging & bending machines. | 639 | Foundry sand mixers..... | 782 | Friction cones (see pulleys, | |
| Folding door hangers (accor- | | Forging & tapering rolls.... | 955 | Foundry scales | 1020 | friction cone). | |
| dion or folding)..... | 316 | Forging & upsetting ma- | | Foundry screens | 1024 | Friction discs | 313 |
| Folding door hangers, audi- | | chines | 671 | Foundry sprayers | 1058 | Friction draft springs..... | 1060 |
| torium | 316 | Forgings, aluminum | 446 | Foundry sprinklers, steel.. | 452 | Friction hoists | 533 |
| Folding door hangers (sliding | | Forgings, automatic coupler. | 446 | Foundry supplies (facing & | | Friction indicators | 542 |
| or folding) | 317 | Forgings, automobile | 446 | supplies) | 451 | Friction leather | 582 |
| Folding doors | 319 | Forgings, bronze | 446 | Foundry trucks | 1154 | Friction shaping machines.. | 663 |
| Folding gate mfrs..... | 465 | Forgings, cold | 446 | Fountain blocks, brass & | | Friction top can closing ma- | |
| Folding gates..... | 466 | Forgings, copper | 446 | iron | 67 | chines | 629 |
| Folding gates & guards, ele- | | Forgings, delta metal..... | 447 | Fountains, drinking | 452 | Friction washers | 1184 |
| vator | 368 | Forgings, drop | 447 | Fountains, drinking, sanitary | 452 | Frictions, paper | 453 |
| Folding hat & coat racks... | 927 | Forgings, electric | 447 | Fountains, electric | 452 | Froes, copper solid steel.... | 278 |
| Folding hay racks..... | 517 | Forgings, electric railway.. | 447 | Fountains, soda water..... | 452 | Frog & switch planers | 825 |
| Folding machines, belt.... | 620 | Forgings, finished | 447 | Fountains, stock | 452 | Frogs, cast iron..... | 453 |
| Folding machines, circular.. | 629 | Forgings, gas engine..... | 447 | Fountains, vases, etc. 452 & | 1175 | Frogs, replacing | 453 |
| Folding machines, cloth.... | 1123 | Forgings, German silver.... | 447 | Fountains, vases, etc. 452 & | 1175 | Frogs, spring rail..... | 453 |
| Folding machines, collar.... | 631 | Forgings, golf | 447 | Four column hydraulic | | Frogs, switches, crossings, | |
| Folding machines, paper, | | Forgings, hollow | 447 | presses | 906 | etc. | 453 |
| 639 & 651 | | Forgings, iron & steel..... | 447 | Fourdriner wire | 1204 | Frogs, wrecking (see car re- | |
| Folding machines, paper, | | Forgings, liquid pressed.... | 449 | Fourdriner & cylinder paper | | placers). | |
| automatic | 651 | Forgings, manganese bronze. | 449 | machines | 640 | Front brick mfrs..... | 103 |
| Folding molding machines.. | 648 | Forgings, nickel steel.... | 449 | Four plate printing presses. | 905 | Fronts, boiler | 71 |
| Folding or accordion door | | Forgings, pressed steel.... | 449 | Four-way cocks | 235 | Fronts & doors, vault..... | 1175 |
| hangers | 316 | Forgings, seamless steel.... | 449 | Fox monitor lathes (see | | Frue vanners | 1172 |
| Folding paper boxes | 85 | Forgings, telegraph & tele- | | lathes, brass finishers). | | Fruit can headers..... | 517 |
| Folding roof ladders | 571 | phone pole | 449 | Frames, automobile pressed | | Fruit cleaning & breaking | |
| Folding scaffold brackets... | 87 | Fork handles | 502 | steel | 452 | machinery | 640 |
| Folding shelf brackets.... | 87 | Fork machinery, spoon & fork | 666 | Frames, blue print (cars & | | Fruit grading & packing ma- | |
| Folding steel frame barrows. | 48 | Forks, ballast | 449 | frames) | 69 | chines | 640 |
| Folding tables | 1103 | Forks, brake | 449 | Frames, clothes drying..... | 232 | Fruit jar rings (see rubbers, | |
| Folding & cutting machines, | | Forks, coke | 449 | Frames, cotton drawing.... | 1123 | fruit jars). | |
| band | 1117 | Forks, hand | 449 | Frames, cotton fly..... | 1123 | Fruit jar rubbers | 1000 |
| Folding & cutting machines, | | Forks, harpoon, hay..... | 449 | Frames, gassing | 1123 | Fruit jars | 564 |
| rib | 1128 | Forks, horse hay | 449 | Frames, grindstone (boxes & | | Fruit nippers | 792 |
| Folding & cutting machines, | | Forks, loom | 1125 | frames) | 496 | Fruit package stapling ma- | |
| underwear | 1123 | Forks, rail | 449 | Frames, hack saw (see saw | | chines | 640 |
| Folding & filling machines, | | Forks, rising | 449 | blades & frames, hack). | | Fruit pickers | 819 |
| powder | 655 | Forks, tedder | 449 | Frames, hand lacing..... | 1123 | Fruit presses | 905 |
| Folding & gluing machines, | | Forks, trolley | 449 | Frames, harness | 1123 | Fruit wrapping and wrapper | |
| paper box | 650 | Forks, vegetable | 449 | Frames, heddle | 1123 | printing machinery | 640 |
| Folding & measuring ma- | | Forks, vegetable | 449 | Frames, intermediate | 1123 | Fruit & merchandise wrap- | |
| chines | 1123 | Formed milling cutters.... | 301 | Frames, jack | 1123 | ping machines | 677 |
| Food choppers | 224 | Former, conduit elbow.... | 248 | Frames, mirror, brass..... | 781 | Fruit & vegetable parers... | 816 |
| Foot horn blowers..... | 538 | Forming dies | 311 | Frames, redrawing | 1123 | Fuel briquetting machinery.. | 640 |
| Foot or power sprue cutters | 303 | Forming lathes | 577 | Frames, ring spinning..... | 1123 | Fuel economizers..... | 453 |
| Foot power hammers..... | 499 | Forming machinery, sheet | | Frames, roving | 1123 | Fuel, engineers' liquid.... | 410 |
| Foot power hammers, black- | | metal | 663 | Frames, sheave (wheels or | | Fuel feeders | 431 |
| smiths' | 498 | Forming machinery, wire... | 672 | frames) | 1038 | Fuel gas burners..... | 176 |
| Foot power lathes..... | 577 | Forming machines, can body | 625 | Frames, slubbing | 1123 | Fuel gas meters..... | 769 |
| Foot power planers (hand & | | Forming machines, gutter... | 641 | Frames, spinning | 1123 | Fuel level indicators..... | 542 |
| foot) | 825 | Forming machines, hydrau- | | Frames, steel head..... | 453 | Fuel machinery, peat..... | 652 |
| Foot power treadles..... | 1151 | lic | 639 | Frames, suit case..... | 453 | Fuel oil burners..... | 176 |
| Foot presses | 905 | Forming machines, needle.. | 649 | Frames, twisting (see twis- | | Fuel oil burning furnaces... | 455 |
| Foot punching machines.... | 639 | Forming machines, pan.... | 650 | ters). | | Fuel oil pumping systems... | 453 |
| Foot rail brackets..... | 87 | Forming machines, paper | | Frames, window (see win- | | Fuel oil tanks..... | 1106 |
| Foot rails (hand & foot)... | 934 | rule | 651 | dow frame & sash, vari- | | Fuel oil & gas burning appli- | |
| Foot rests, automobile.... | 446 | Forming machines, ring; | | ous kinds). | | ances | 453 |
| Foot scrapers | 1024 | automatic | 658 | Frames, wood saw..... | 453 | Fuel regulating cocks, liquid | 235 |
| Foot valves | 1166 | Forming machines, turret.. | 670 | Frames, wool spinning..... | 1123 | Fuller work cocks & bibbs.. | 237 |
| Foot vises | 1179 | Forming presses | 905 | Frames & blades, hack saw.. | 1015 | Fuller & washer, combined.. | 1132 |
| Foot warmers, automobile | | Forming & bending machines | 639 | Frames & bucks, saw..... | 1016 | Fuller's earth | 453 |
| (see heaters, automobile). | | Foss & pevey cards..... | 1119 | Frames & cylinders, solder- | | Fullers, top & bottom..... | 453 |
| Foot warmers, soapstone... | 446 | Fossil meal | 449 | ing | 1056 | Fulling mills | 1123 |
| Foot & hand power grinders | 494 | Fossil meal pipe & boiler | | Framing machines, mine | | Fumigators | 453 |
| Foot & hand power wood | | coverings | 824 | timber | 647 | Funnels for injection & oil | |
| working machinery | 676 | Foundation bolts | 81 | overflow | 453 | Funnels, gasoline | 453 |
| Force cups, rubber..... | 299 | Foundation sounding for | | Franklin metal castings.... | 201 | Fur cutters' knives..... | 567 |
| Force feed lubricators.... | 594 | heavy buildings, etc..... | 449 | Freezers, ice cream, etc.... | 453 | Fur dressing machinery... | 640 |
| Force pumps | 917 | Foundations, bridge | 109 | Freight car door fasteners.. | 430 | Furnace, arch & roof brick | |
| Force pumps, plumbers'... | 919 | Foundations, caisson | 179 | Freight cars | 188 | mfrs. | 106 |
| Forced draft dampers..... | 305 | Founders, bell | 56 | Freight conveyors | 275 | Furnace barrows, charging.. | 49 |
| Forge blowers | 68 | Founders, brass | 449 | Freight handling machines | | Furnace blowers | 68 |
| Forge cranes | 293 | Founders, bronze | 110 | (see conveyors, freight). | | Furnace builders, glass house | 475 |
| Forged steel cylinders & | | Founders, iron (see machin- | | Freight house door hangers. | 317 | Furnace casing rings..... | 944 |
| dials | 1121 | ists & founders). | | Freight unloading machines, | | Furnace castings, air..... | 194 |
| Forged steel pipe flanges... | 443 | Founders, malleable iron... | 450 | portable | 671 | Furnace castings, blast.... | 195 |
| Forged steel rolls | 955 | Founders & machinists.... | 681 | Freight wagons | 1182 | Furnace castings (rolling | |
| Forges, blast | 446 | Foundry barrows | 48 | Freight & passenger elevators | 370 | mill & furnace) | 204 |
| Forges, bridge builders'... | 446 | Foundry brooms | 111 | French chalk pencils..... | 818 | Furnace cements | 214 |
| Forges, down draft | 446 | Foundry brushes | 111 | French cooking ranges (see | | Furnace chains | 218 |
| Forges for brazing irons... | 446 | Foundry buckets | 113 | cooping apparatus). | | Furnace charging barrows... | 49 |
| Forges, for drop forging | | Foundry cars | 187 | French limestone | 585 | Furnace charging machines.. | 640 |
| plants | 446 | Foundry chaplets | 221 | French portland cement im- | | Furnace doors, open hearth.. | 318 |
| Forges, gas blast..... | 446 | Foundry clay | 451 | porters | 211 | Furnace feeders | 431 |
| Forges, heating..... | 446 | Foundry cranes, portable... | 293 | French portland cements.... | 213 | Furnace feeders, automatic.. | 454 |
| Forges, oil, portable..... | 446 | Foundry cupolas | 299 | French ranges, etc. (see | | Furnace fronts, muffle..... | 788 |
| Forges, pneumatic..... | 446 & | Foundry elevators | 370 | cooking apparatus). | | Furnace gas burners..... | 176 |
| Forges, portable | 446 | Foundry engineers | 409 | Fresh air inlets..... | 544 | Furnace pipe seaming ma- | |
| Forges, rivet heating..... | 446 | Foundry facings & supplies. | 451 | Fresh water distilling ap- | | chines | 640 |
| Forging dies, drop..... | 311 | Foundry flour | 445 | paratus | 426 | Furnace pipe & fittings.... | 454 |
| Forging furnaces, etc..... | 455 | Foundry hoists, portable... | 533 | Fresnal globes for steam- | | Furnace registers | 940 |
| Forging hammers, pneumatic | 896 | Foundry ladles | 571 | ships | 482 | Furnace regulators | 941 |
| Forging, heading & upsetting | | Foundry machinery | 640 | Fret, grille lattice work.... | 491 | Furnace scoops | 1022 |
| machines, combined | 642 | Foundry molding machines.. | 648 | Fret or grille work, for the | | Furnaces, agricultural | 454 |
| Forging lathes (see lathes, | | Foundry pails | 806 | trade only | 492 | Furnaces, annealing & case | |
| engine). | | Foundry plant equipments.. | 451 | Friction boards | 69 | hardening | 454 |
| Forging machines | 639 | | | | | | |

| | Page | | Page | | Page | | Page |
|-------------------------------|------|----------------------------|------|-------------------------------|------|--------------------------------|-------------|
| Furnaces, asphalt, etc. | 454 | Furniture polish | 901 | Gang wheel plows | 834 | Gas machines | 640 |
| Furnaces, assayers & bullion | 454 | Furniture, post office | 459 | Gantry cranes | 293 | Gas machines, acetylene | 640 |
| Furnaces, Babbitt melting | 454 | Furniture, printers' wood | 909 | Gap lathes (see lathes, en- | | Gas machines, gasoline | 640 |
| Furnaces, bagasse | 1098 | Furniture, rattan & reed | 459 | gine). | | Gas machines, naphtha gas | 640 |
| Furnaces, billet heating | 454 | Furniture, school | 459 | Garbage cans (ash & gar- | | Gas main force pumps | 918 |
| Furnaces, blast | 454 | Furniture springs | 1060 | bage) | 180 | Gas main stoppers | 1092 |
| Furnaces, bolt making | 454 | Furniture, steel rod | 460 | Garbage cans, seamless | | Gas main valves | 1166 |
| Furnaces, brass & copper | | Furniture trimmings | 1152 | pressed steel | 461 | Gas meters | 769 |
| melting | 454 | Furniture varnishes | 1174 | Garbage disposal machines | 640 | Gas meters, cocks | 235 |
| Furnaces, brazing | 454 | Furniture & draperies | 460 | Garbage disposal plants | 461 | Gas meters, prepaid | 769 |
| Furnaces, case hardening | | Furring & lathing, iron | 460 | Garbage dryers | 330 | Gas mixers | 782 |
| (annealing & case harden- | | Fuse, blasting | 66 | Garbage inclinerators | 542 | Gas oil | 796 |
| ing) | 454 | Fuse blocks | 67 | Garbage palls | 805 | Gas or gasoline hoisting en- | |
| Furnaces, continuous | 454 | Fuse boxes | 85 | Garbage valves | 1166 | gines | 418 |
| Furnaces, core baking (see | | Fuse, caps, etc., blasting | 66 | Garbage wagons | 1182 | Gas oven dies | 311 |
| ovens, core baking). | | Fuse links, "Shawmut" | | Garden barrows | 49 | Gas oven valves | 1166 |
| Furnaces, corrugated | 454 | tested | 460 | Garden cultivators | 299 | Gas parlor grates | 491 |
| Furnaces, crucible | 454 | Fuse, railway signal (see | | Garden engines (greenhouse | | Gas plants installed | 462 |
| Furnaces, cupola (see cupo- | | torpedoes & fuses) | 1148 | & garden) | 416 | Gas pliers | 832 |
| las). | | Fuse terminals | 1115 | Garden hose | 539 | Gas power equipments | 902 |
| Furnaces, electric | 455 | Fuse wire | 460 | Garden hose reels | 938 | Gas power & lighting ma- | |
| Furnaces, enameling, muffler | 455 | Fused coupling boxes, for | | Garden or lawn rakes, etc. | 935 | chinery | 640 |
| Furnaces, flanging | 455 | feeder cables | 85 | Garden plows | 834 | Gas pressure controllers | 273 |
| Furnaces, flue welding | 455 | Fused service switch boxes | 86 | Garden rollers (lawn & gar- | | Gas pressure regulators | 941 |
| Furnaces, forging, etc. | 455 | Fused service switches | 1101 | den) | 950 | Gas producers | 462 |
| Furnaces, fuel oil burning | 455 | Fuseless rosette | 999 | Garden seed drills | 324 | Gas producers, water seal | 462 |
| Furnaces, gas | 455 | Fuses | 460 | Garden seeders | 1030 | Gas producers' furnaces | 457 |
| Furnaces, gas generator | 455 | Fuses, enclosed | 460 | Garden sowers & drills, | | Gas pumping jacks | 562 |
| Furnaces, gas soldering | 455 | Fusible links | 586 | hand | 1056 | Gas pumping machinery | 640 |
| Furnaces, glass mfrs. | 455 | Fusible plugs | 836 | Garden weeders | 1189 | Gas purifiers & scrubbers | 925 |
| Furnaces, gold & silver | | | | Garment scales, lever bal- | | Gas radiators | 927 |
| melting | 455 | | | ances | 1129 | Gas ranges | 462 |
| Furnaces, heating | 455 | | | Garnet ore | 798 | Gas recording pressure | |
| Furnaces, high speed steel | 455 | | | Garnett machines | 1123 | gauges | 468 |
| Furnaces, hot air, aeolipyle | | | | Garnett & card machines | | Gas retort rakes | 935 |
| for | 3 | | | combined | 1123 | Gas retorts | 942 |
| Furnaces, hot air, gas for | | | | Gas arc lamps | 572 | Gas scrubbers (purifiers & | |
| fuel | 455 | | | Gas bags, rubber | 461 | scrubbers) | 925 |
| Furnaces, hot air, mfrs. | 455 | | | Gas blast forges | 446 | Gas separators | 1031 |
| Furnaces, jewelers' | 456 | | | Gas blowers & exhausters | | Gas service cocks | 235 |
| Furnaces, lead | 456 | | | (see exhausters, gas). | | Gas shut-off, automatic | 462 |
| Furnaces, lead tempering | 456 | | | Gas buoys | 176 | Gas singeing machines (see | |
| Furnaces, liquid boiling | 456 | | | Gas burner tips | 1140 | singeing machines). | |
| Furnaces, malleable | 456 | | | Gas burners (see burners, | | Gas soldering furnaces | 455 |
| Furnaces, malleable anneal- | | | | various kinds). | | Gas stove cocks | 235 |
| ing | 456 | | | Gas burning appliances (fuel | | Gas stoves, heaters & ranges | 1095 |
| Furnaces, malleable melting | 456 | | | oil & gas) | 453 | Gas stoves, steel sheets for | 1074 |
| Furnaces, melting | 456 | | | Gas chimneys & shades, in- | | Gas tips, lava | 462 |
| Furnaces, muffling & char- | | | | candescent | 223 | Gas valves | 1164 & 1166 |
| coal sinking | 456 | | | Gas clothes dryers | 232 | Gas valves (blast & gas) | 1164 |
| Furnaces, open hearth | 456 | | | Gas cock wrenches | 1213 | Gas valves, reversing (air or | |
| Furnaces, plate heating | 456 | | | Gas coffee roasters | 238 | gas) | 1170 |
| Furnaces, plumbers' & tin- | | | | Gas coke cars | 188 | Gas valves, Siemen | 1166 |
| ners' | 457 | | | Gas composimeters | 461 | Gas works apparatus & con- | |
| Furnaces, producers' gas | 457 | | | Gas compressing pumps | 917 | struction | 463 |
| Furnaces, puddling | 457 | | | Gas compressors | 243 | Gas works, barrows (see bar- | |
| Furnaces, pyrites | 457 | | | Gas condensers | 247 | rows, coke). | |
| Furnaces, regenerating gas | 457 | | | Gas engine bags | 44 | Gas works machinery | 640 |
| Furnaces, reheating | 457 | | | Gas engine castings | 201 | Gas or coke oven valves | 1166 |
| Furnaces, revolving forge | 457 | | | Gas engine clutches | 233 | Gas & electric fixtures, mfrs. | |
| Furnaces, rivet heating | 457 | | | Gas engine cocks | 235 | & wholesalers | 463 |
| Furnaces, rivet making | 457 | | | Gas engine crankshafts | 296 | Gas & electric light port- | |
| Furnaces, roll tapering | 457 | | | Gas engine forgings | 447 | ables | 464 |
| Furnaces, rolling & melting | 457 | | | Gas engine igniters | 542 | Gas & electric light reading | |
| Furnaces, rotary | 457 | | | Gas engine indicators | 543 | lamps | 464 |
| Furnaces, salamander | 457 | | | Gas engine lubricants | 592 | Gas & gasoline engines | 414 |
| Furnaces, smelting, roasting, | | | | Gas engine lubricators | 594 | Gas & gasoline hoisting en- | |
| etc. | 457 | | | Gas engine starting pumps | 918 | gines | 418 |
| Furnaces, smokeless | 458 | | | Gas engine tanks | 1106 | Gas & gasoline pumping en- | |
| Furnaces, soldering (see fur- | | | | Gas engineers | 409 | gines | 421 |
| naces, plumbers' & tin- | | | | Gas engines (see engines, | | Gas & oil automobile lamps | 572 |
| ners'). | | | | gas & gasoline). | | Gas & oil separators | 1031 |
| Furnaces, steel annealing | 458 | | | Gas exhausters | 427 | Gas & oil well supplies | 796 |
| Furnaces, steel melting | 458 | | | Gas fitters (see plumbers, | | Gas & water castings | 201 |
| Furnaces, sulphur | 458 | | | gas & steam fitters). | | Gas & water cast iron pipe | |
| Furnaces, tar (see furnaces, | | | | Gas fitters' proving pumps | 918 | mfrs. | 194 |
| asphalt, pitch & tar). | | | | Gas fixture dies | 311 | Gas & water main tapping | |
| Furnaces, tempering (see | | | | Gas fixture fittings | 442 | machines | 669 |
| furnaces, annealing, etc). | | | | Gas fixture taps | 1112 | Gas & water works supplies | 464 |
| Furnaces, tire heating | 458 | | | Gas fixtures (see gas & elec- | | Gases & chemicals, liquified | 222 |
| Furnaces, welding, regenera- | | | | tric fixtures). | | Gasket cutters (washer & | |
| tive | 458 | | | Gas fixtures, wrought iron | 461 | gasket) | 304 |
| Furnaces, wire baking & an- | | | | Gas furnaces | 455 | Gasket punches | 924 |
| nealing | 458 | | | Gas furnaces, regenerating | 457 | Gasket & washer cutters | |
| Furnaces, wood burning | 458 | | | Gas generator furnaces | 455 | Gaskets | 464 |
| Furnishing mfrs., fireplace | 439 | | | Gas generators | 461 | Gaskets, ammonia fitting | 465 |
| Furnishings, bath room | 51 | | | Gas governors | 484 | Gaskets, asbestos | 465 |
| Furniture, bamboo | 458 | | | Gas grates, parlor | 491 | Gaskets, asbestos, metallic | 465 |
| Furniture, bank & office | 458 | | | Gas heaters (see stoves & | | Gaskets, automobile | 465 |
| Furniture, church & lodge | 458 | | | heaters & ranges, gas). | | Gaskets, copper | 465 |
| Furniture, clamps | 227 | | | Gas heaters for tool temper- | | Gaskets, corrugated copper | 465 |
| Furniture, dental & surgical | 459 | | | ing | 519 | Gaskets, lead | 465 |
| Furniture for public build- | | | | Gas heating & cooking stoves | 461 | Gaskets, nickel & bronze | 465 |
| ings | 459 | | | Gas heating & ventilating | | Gaskets, "Smooth-On" cor- | |
| Furniture, hospital | 459 | | | registers | 940 | rugated iron | 465 |
| Furniture, knocked down | 459 | | | Gas holder steel | 1072 | Gaskets, steel corrugated | 465 |
| Furniture, lawn | 581 | | | Gas holders | 461 | Gasoline arc lamps | 572 |
| Furniture, lawn & porch | 459 | | | Gas lighters (see burners, | | Gasoline automobile burners | 177 |
| Furniture, leather covered | 459 | | | various kinds). | | Gasoline blow torches | 1147 |
| Furniture, machine shop | 618 | | | Gas lighters, pneumatic | 461 | Gasoline burners | 177 |
| Furniture, metallic | 459 | | | Gas line fittings | 442 | Gasoline cans | 180 |
| Furniture, nail machines | 640 | | | Gas log valves | 1166 | Gasoline compressors | 243 |
| Furniture, panel stock | 459 | | | Gas logs | 461 | Gasoline engine burners | 177 |
| Furniture, park | 817 | | | | | Gasoline engine cylinders | 304 |

| | Page | | Page | | Page | | Page |
|-----------------------------------|------|----------------------------------|------|------------------------------------|------|-------------------------------------|------|
| Gasoline engine igniters..... | 542 | Gauges, barrel..... | 468 | Gears, friction clutch..... | 472 | Glass for engineering spe- | |
| Gasoline engine steel trucks..... | 1155 | Gauges, battery (see amme- | | Gears, internal..... | 472 | cialties..... | 475 |
| Gasoline engine trucks..... | 1154 | ters & voltmeters)..... | | Gears, machine moulded..... | 472 | Glass front sectional shelv- | |
| Gasoline engines (gas & gaso- | | Gauges, bit..... | 468 | Gears, marine reversing..... | 472 | ing..... | 1043 |
| line)..... | 414 | Gauges, blast..... | 468 | Gears, marine steering, hand | | Glass furnace castings..... | 201 |
| Gasoline farm motors..... | 787 | Gauges, boiler plate..... | 468 | & steam..... | 472 | Glass globes & shades (see | |
| Gasoline fire engines..... | 436 | Gauges, bolt & pipe..... | 468 | Gears, mill..... | 472 | globes, also shades). | |
| Gasoline funnels..... | 453 | Gauges, bourdon pressure..... | 468 | Gears, mining machine..... | 472 | Glass, ground..... | 475 |
| Gasoline gas burners..... | 177 | Gauges, caliper..... | 468 | Gears, raw hide..... | 472 | Glass house furnace builders | 475 |
| Gasoline gas machines..... | 640 | Gauges, car wheel, circum- | | Gears, reversing..... | 472 | Glass house machinery..... | 641 |
| Gasoline gauges (see indica- | | ference..... | 468 | Gears, running..... | 472 | Glass house molds..... | 782 |
| tors fuel level). | | Gauges, carpenters'..... | 468 | Gears, spindle & bobbin..... | 1130 | Glass, leaded..... | 475 |
| Gasoline governors..... | 484 | Gauges, center..... | 468 | Gears, spiral (see gears, cut). | | Glass lehrs..... | 582 |
| Gasoline hoists..... | 533 | Gauges, chamferer..... | 468 | Gears, spur (see gears, cut). | | Glass lined refrigerators & | |
| Gasoline lamps..... | 573 | Gauges, compression..... | 468 | Gears, steering..... | 472 | cooling rooms..... | 940 |
| Gasoline locomotives..... | 590 | Gauges, concave & convex..... | 468 | Gears, swinging..... | 472 | Glass lined steel tanks..... | 1109 |
| Gasoline marine engines..... | 419 | Gauges, cylindrical..... | 468 | Gears, transmission or speed | | Glass machinery, plate..... | 654 |
| Gasoline motor velocipede | | Gauges, depth..... | 468 | changing..... | 472 | Glass makers' sand..... | 1001 |
| cars..... | 192 | Gauges, draft..... | 468 | Gears, worm..... | 473 | Glass mfrs.' furnaces..... | 455 |
| Gasoline motors..... | 787 | Gauges, draft recording..... | 468 | Gears & pinions..... | 473 | Glass, maze for diffusion of | |
| Gasoline pumping machines | 657 | Gauges, dynamo & motor oil | 468 | Gears & pinions, automobile | 473 | light..... | 476 |
| Gasoline pumps..... | 918 | Gauges, gas recording press- | | Gears & pinions, raw hide..... | 473 | Glass mosaic work..... | 476 |
| Gasoline railroad cars..... | 188 | ure..... | 468 | Gelatine coating machines..... | 641 | Glass mosaics..... | 783 |
| Gasoline refiners..... | 465 | Gauges, gasoline (see indica- | | Gems or precious stones, | | Glass, novus sanitary struc- | |
| Gasoline rock drills..... | 326 | tor, fuel level). | | opals a specialty..... | 473 | tural..... | 476 |
| Gasoline soldering iron & | | Gauges, hydraulic..... | 468 | General contractors..... | 252 | Glass oil cans..... | 795 |
| blow-torch combined..... | 1056 | Gauges, hydraulic recording..... | 468 | General machine knives..... | 568 | Glass, opal blanks..... | 476 |
| Gasoline stoves..... | 1095 | Gauges, inspectors'..... | 468 | Generating sets..... | 473 | Glass, opalescent..... | 476 |
| Gasoline strainers..... | 1096 | Gauges, key-seat or splining | 468 | Generator valves..... | 1167 | Glass, ornamental..... | 476 |
| Gasoline strainers & separa- | | Gauges, limit..... | 468 | Generator valve throttles..... | 1134 | Glass pipe mfrs..... | 476 |
| tors..... | 1096 | Gauges, locomotive (see gau- | | Generators, electric lighting..... | 473 | Glass plate prism mfrs..... | 476 |
| Gasoline tanks..... | 1106 | ges, steam). | | Generators, electric power..... | 473 | Glass, plate & window, | |
| Gasoline torches..... | 1147 | Gauges, lumber..... | 469 | Generators, gas..... | 461 | wholesale and retail..... | 476 |
| Gasoline traction engines..... | 425 | Gauges, marking..... | 469 | Generators, mercurial heat..... | 768 | Glass, polished plate mfrs..... | 479 |
| Gasoline turntable motors..... | 787 | Gauges, mercury..... | 469 | Generators, street railway..... | 474 | Glass, polished wire..... | 479 |
| Gassing frames..... | 1123 | Gauges, metric..... | 469 | German Portland cement im- | | Glass polishing machines..... | 641 |
| Gassing machines..... | 1123 | Gauges, micrometer..... | 469 | porters..... | 211 | Glass pots..... | 102 |
| Gate hinges..... | 530 | Gauges, mine water..... | 469 | German silver castings..... | 201 | Glass, pressed light, mfrs..... | 479 |
| Gate hinges, office..... | 530 | Gauges, petrol depth..... | 469 | German silver forgings..... | 447 | Glass pressed or blown | |
| Gate hook machines, auto- | | Gauges, plug & ring..... | 469 | German silver mouldings..... | 788 | shades..... | 1034 |
| matic..... | 640 | Gauges, plumbers'..... | 469 | German silver rivets..... | 945 | Glass presses..... | 405 |
| Gate hooks & eyes..... | 537 | Gauges, rafter & polygon..... | 469 | German silver rods..... | 948 | Glass, prismatic, mfrs..... | 479 |
| Gate latches..... | 575 | Gauges, rain..... | 469 | German silver screws..... | 1028 | Glass refrigerators..... | 940 |
| Gate mfrs. (see gates). | | Gauges, recording pressure..... | 469 | German silver sheets..... | 1028 | Glass rods & bars..... | 1123 |
| Gate mfrs., folding..... | 465 | Gauges, recording tide..... | 469 | German silver sinks..... | 1044 | Glass roofing tile..... | 998 |
| Gate or guillotine shears..... | 1037 | Gauges, recording vacuum..... | 469 | German silver tubing..... | 1157 | Glass roofs..... | 999 |
| Gate springs..... | 1060 | Gauges, rule..... | 469 | German silver wire..... | 1204 | Glass, roughed, ribbed & fig- | |
| Gate valves..... | 1167 | Gauges, saw..... | 469 | Giants, hydraulic..... | 474 | ured rolled plate..... | 479 |
| Gate valves for water mains..... | 1167 | Gauges, scratch..... | 469 | Gib screws..... | 1028 | Glass, rough & ribbed for | |
| Gates, automatic drive..... | 465 | Gauges, screw pitch..... | 469 | Gibs & keys..... | 474 | skylights..... | 480 |
| Gates, blast..... | 465 | Gauges, sheet metal..... | 469 | Gigs, teasel..... | 1123 | Glass, sand blast..... | 480 |
| Gates, bridge..... | 466 | Gauges, snap..... | 469 | Gilding & stamping presses..... | 905 | Glass setting in lead or metal..... | 489 |
| Gates, bronze..... | 466 | Gauges, stair..... | 469 | Gill screws..... | 1123 | Glass shades..... | 1034 |
| Gates, bronze & iron..... | 466 | Gauges, steam..... | 469 | Gill & coupling pins..... | 1123 | Glass shades, pressed or | |
| Gates, car (gates & guards). | 182 | Gauges, surface..... | 470 | Gills, preparing & finishing..... | 1123 | blown..... | 1034 |
| Gates, coal pocket..... | 466 | Gauges, syphon..... | 470 | Gilt, fire..... | 439 | Glass shutter, wire..... | 1044 |
| Gates, driveway & entrance..... | 466 | Gauges, tank acid metal..... | 470 | Gilt nails..... | 790 | Glass signs..... | 1046 |
| Gates, elevator, automatic..... | 367 | Gauges, test..... | 470 | Gimlet bits..... | 64 | Glass signs, advertising..... | 1046 |
| Gates, farm & railroad..... | 466 | Gauges, test pocket..... | 470 | Gimlet pointing coach | | Glass signs, chipped..... | 1046 |
| Gates, ferryboat..... | 466 | Gauges, thickness..... | 470 | screw machines..... | 662 | Glass skylight mfrs..... | 480 |
| Gates, folding..... | 466 | Gauges, thread..... | 470 | Gimlet pointing machines, | | Glass skylight wire..... | 1048 |
| Gates, hub & flanged water..... | 767 | Gauges, tie plate..... | 470 | lag screw..... | 644 | Glass specialties, blown & | |
| Gates, mausoleum (doors & | | Gauges, track..... | 470 | Gimlet & auger mfrs..... | 37 | pressed..... | 480 |
| gates)..... | 767 | Gauges, twist drill..... | 470 | Gin blocks, iron..... | 67 | Glass stainers..... | 480 |
| Gates, molasses..... | 466 | Gauges, universal screw cut- | | Gin saw filing machines & | | Glass stainers' supplies..... | 481 |
| Gates, ore bin..... | 466 | ting..... | 470 | gummers..... | 951 | Glass store fronts & show | |
| Gates, ornamental iron..... | 466 | Gauges, urn..... | 470 | Gingher looms..... | 1126 | windows..... | 1092 |
| Gates, railway crossing..... | 467 | Gauges, vacuum..... | 470 | Ginning machines..... | 633 | Glass, structural sanitary..... | 481 |
| Gates, sluice..... | 467 | Gauges, water..... | 1187 | Girder tongs..... | 1141 | Glass tanks..... | 1107 |
| Gates, steel picket (see fen- | | Gauges, water depth..... | 470 | Girder & high tee rails..... | 934 | Glass tile..... | 1137 |
| ces, iron & steel picket). | | Gauges, water pressure..... | 470 | Glass advertising signs..... | 1046 | Glass, transparent wire..... | 481 |
| Gates, storage bin..... | 467 | Gauges, wheel..... | 470 | Glass aquariums..... | 11 | Glass tubing..... | 1157 |
| Gates & fences, wire..... | 1203 | Gauges, wire..... | 470 | Glass, art (see glass, leaded). | | Glass, vault & sidewalk..... | 482 |
| Gates & guards, car..... | 182 | Gauges, wireman's calculat- | | Glass balls..... | 45 | Glass washboards..... | 482 |
| Gates & guards, elevator | | ing..... | 470 | Glass benders..... | 474 | Glass, window mfrs..... | 482 |
| folding..... | 368 | Gauges, worm thread tool..... | 470 | Glass bent wire..... | 474 | Glass, wire..... | 482 |
| Gates & guards, elevator, | | Gear cases..... | 470 | Glass bevelers..... | 474 | Glass wire, approved fire stop | 482 |
| Pitt, Bostwick, etc..... | 368 | Gear chains, filler..... | 218 | Glass beveling machinery..... | 641 | Glass wire for all purposes..... | 1204 |
| Gauge blanks, caliper..... | 66 | Gear cutting (see gears, cut). | | Glass blowing machines..... | 641 | Glass wire, for fireproof | |
| Gauge cock drips..... | 328 | Gear cutting machines..... | 640 | Glass, carrara..... | 474 | windows..... | 482 |
| Gauge cocks..... | 235 | Gear draft..... | 321 | Glass, cathedrai, rough plate | | Glass, wire, for show cases..... | 482 |
| Gauge dials..... | 310 | Gear planers..... | 825 | & tile..... | 474 | Glass, wire, skylight..... | 482 |
| Gauge drills, wire..... | 327 | Gear shields..... | 1040 | Glass ceilings, marbleized..... | 207 | Glass work, mosaic..... | 476 |
| Gauge glass cutters..... | 301 | Gear testing machines..... | 641 | Glass, chipped..... | 474 | Glass works, scales..... | 1020 |
| Gauge glass preserver..... | 467 | Gear wheels, hard fibre..... | 1193 | Glass crystal, lead & colored | 475 | Glass, Zahlfest, non break- | |
| Gauge glass rubber..... | 467 | Geared jacks..... | 562 | Glass cutters (artists)..... | 475 | able..... | 482 |
| Gauge glass washers..... | 467 | Geared pumps, oil or water..... | 918 | Glass cutters (tools)..... | 301 | Glass & iron doors..... | 319 |
| Gauge glasses..... | 467 | Gearing, cane mill..... | 470 | Glass cutters' pliers..... | 832 | Glass & metal shades..... | 1034 |
| Gauge glasses, Scotch..... | 467 | Gearing, wharf drop..... | 470 | Glass cutters' stones..... | 1091 | Glasses, cylindrical..... | 482 |
| Gauge lamps, locomotive..... | 574 | Gears, angle..... | 470 | Glass cutting boards..... | 475 | Glasses, gauge..... | 467 |
| Gauge lathe knives..... | 567 | Gears, automobile equalizing | 470 | Glass cylinders..... | 475 | Glasses, gauge, Scotch..... | 467 |
| Gauge lathes..... | 578 | Gears, automobile running..... | 471 | Glass, drugists' (see glass- | | Glassware, chemical & drug- | |
| Gauge testing apparatus..... | 467 | Gears, automobile steering | | ware, chemical & drug- | | glsts'..... | 482 |
| Gauge testing pumps (see | | irreversible..... | 471 | Glass, embossers..... | 475 | Glazed brick mfrs..... | 106 |
| gauge testing apparatus). | | Gears, automobile steering, | | Glass enamels..... | 475 | Glazed fire clay, laundry | |
| Gauges, air brake (see | | reversible..... | 471 | Glass enameled steel tanks..... | 1109 | tubs..... | 580 |
| gauges, steam). | | Gears, brick machinery..... | 471 | Glass enamellers..... | 475 | Glazed terra cotta..... | 1116 |
| Gauges, alarm..... | 467 | Gears, cable reel winding..... | 471 | Glass, figured..... | 475 | Glaziers' diamonds..... | 310 |
| Gauges, altitude..... | 467 | Gears, cement machinery..... | 471 | Glass, fire retardant..... | 475 | Glaziers' points..... | 900 |
| Gauges, ammonia..... | 468 | Gears, cut..... | 471 | Glass floats..... | 444 | Glazing machines, leather..... | 645 |
| Gauges, ammonia recording..... | 468 | Gears, fibre..... | 472 | Glass floor plate mfrs..... | 475 | Gliding settees..... | 1032 |
| Gauges, automobile..... | 468 | Gears for dredges..... | 472 | Glass for electrical use..... | 475 | Globe holders (shade or | |
| Gauges, axle..... | 468 | Gears for steam shovels..... | 472 | | | globe)..... | 535 |
| Gauges, bar iron limit..... | 468 | | | | | | |

| | Page | | Page | | Page | | Page |
|--|------|---|------|--|------|---|------|
| Globe valves | 1167 | Graduated terre cotta roofing tile | 998 | Graphite lubricators..... | 595 | Grilles, wrought iron..... | 492 |
| Globe ventilated ridgings..... | 943 | Graduating machines | 641 | Graphite miners & refiners.. | 490 | Grinder wheels, card..... | 1118 |
| Globes, arc lamp..... | 482 | Graf green marble | 750 | Graphite, oiled..... | 490 | Grinders, band saw..... | 493 |
| Globes, for incandescent light | 482 | Grain alcohol | 8 | Graphite paints..... | 812 | Grinders, bench | 493 |
| Globes, fresnel, for steamships | 482 | Grain car loaders | 586 | Graphite pencils..... | 818 | Grinders, brick bat..... | 493 |
| Globes, inner arc..... | 482 | Grain cleaning & grading machinery | 641 | Graphite washers..... | 1184 | Grinders, calender roll..... | 493 |
| Globes, lantern | 482 | Grain cradles | 292 | Grapphophone mfrs | 490 | Grinders, car wheel..... | 493 |
| Globes & shades, prismatic.. | 482 | Grain dryers | 330 | Grapple pipe..... | 822 | Grinders, center | 493 |
| Glossing machines..... | 641 | Grain drill points | 900 | Grapples, beam..... | 490 | Grinders, center, pneumatic.. | 895 |
| Glove buttoners (glove & shoe) | 178 | Grain drill springs | 1060 | Grapples, stone holsting.... | 490 | Grinders, cinder & ore..... | 493 |
| Glove cutting oies (see glove machinery). | | Grain drill tubes | 1156 | Grapples, timber..... | 490 | Grinders, clay (see clay grinding machines). | |
| Glove hooks (shoe & glove). | 537 | Grain drills | 325 | Grass catchers | 206 | Grinders, cock | 493 |
| Glove machinery | 641 | Grain drills, disc | 324 | Grass hooks | 536 | Grinders, cup, cone & hub.. | 493 |
| Glove sewing machines..... | 1033 | Grain elevator builders..... | 484 | Grass seeders, wheelbarrow.. | 1030 | Grinders, cutter (see grinders, reamer & cutter). | |
| Gloves, rubber | 483 | Grain elevator conveyors .. | 275 | Grass shears | 1038 | Grinders, disc | 493 |
| Gloves & mitts, asbestos.... | 36 | Grain elevator machinery & appliances | 641 | Grate bar mfrs | 490 | Grinders, drill | 493 |
| Glue cooking kettles | 565 | Grain elevator tanks | 1107 | Grate, mantel & tile dealers | 746 | Grinders, edging | 494 |
| Glue factory machinery..... | 641 | Grain elevators, portable .. | 484 | Grate settings | 490 | Grinders, electric | 494 |
| Glue, fish | 483 | Grain harvestors & binders .. | 517 | Graters, apple | 490 | Grinders, electric portable.. | 494 |
| Glue heaters | 519 | Grain hoppers | 538 | Graters, green corn | 490 | Grinders, emery | 494 |
| Glue jointing machines..... | 641 | Grain power shovels | 1044 | Graters, horseradish..... | 490 | Grinders, emery, pneumatic.. | 896 |
| Glue mfrs. | 483 | Grain registers | 940 | Graters, nutmeg | 490 | Grinders, face | 494 |
| Glue pots | 902 | Grain scoops | 1022 | Grates, cellar..... | 491 | Grinders, feed (see mills, feed grinding). | |
| Glue spreading machines.... | 641 | Grain separators | 1031 | Grates, dumping | 491 | Grinders, floor..... | 494 |
| Glue, paper box..... | 483 | Grain shovels, power | | Grates, fenders & mantels.. | 491 | Grinders, foot & hand power | 494 |
| Gluing & folding machines, paper box | 650 | Grain storage tanks | 1107 | Grates, gas, parlor..... | 491 | Grinders, huller knife..... | 494 |
| Glycerine | 483 | Grain testing scales | 1020 | Grates, hollow blast (see grate bar mfrs.). | | Grinders, knife & scissors.. | 494 |
| Glycerine & oil drums..... | 328 | Grain weighers, loaders & baggers | 1190 | Grates, rocking | 491 | Grinders, lathe center..... | 495 |
| Goggles & eye protectors .. | 483 | Grain & flour weighing & packing machines, automatic | 619 | Grates, shaking & dumping.. | 491 | Grinders, machine tool..... | 495 |
| Gold anodes | 10 | Graining machines, timber.. | 669 | Grates, traveling link..... | 491 | Grinders, mill pick..... | 495 |
| Gold bullion molds..... | 782 | Graining machines, wood.... | 674 | Grates, ventilating..... | 491 | Grinders of minerals, clays, etc. | 495 |
| Gold dredging buckets | 113 | Grains & bricks, alundum.. | 9 | Grating machines, apple.... | 619 | Grinders, plain tool..... | 495 |
| Gold dredging machinery (see dredges, gold, etc.)..... | | Grains & bricks, carborundum | 183 | Grave covers & burial vaults, stone | 176 | Grinders, planer knife..... | 495 |
| Gold enamels, washable | 376 | Granite, black | 484 | Gravel dealers, sand & gravel | 1002 | Grinders, pneumatic center.. | 895 |
| Gold leaf | 483 | Granite, building work, cutters & contractors | 485 | Gravel elevators, hydraulic.. | 491 | Grinders, portable | 495 |
| Gold leaf compositions | 483 | Granite column cutting machines | 641 | Gravel heaters & dryers (sand & gravel)..... | 1002 | Grinders, reamer & cutter.. | 495 |
| Gold leaf for outside decorations | 483 | Granite column lathes | 578 | Gravel pans | 815 | Grinders, roll | 495 |
| Gold melting furnaces..... | 455 | Granite columns, polished .. | 485 | Gravel screens (sand, coal & gravel) | 1025 | Grinders, rotary shears.... | 495 |
| Gold melting retorts..... | 943 | Granite, crushed (see stone crushed). | | Gravel & sand conveyors.... | 275 | Grinders, sample ore..... | 495 |
| Gold mills | 779 | Granite cutters' tools | 1144 | Gravel & sand dealers..... | 1002 | Grinders, sand | 495 |
| Gold mining dredges..... | | Granite dealers | 485 | Gravel sieves | 1025 | Grinders, saw | 495 |
| Gold paints | 809 | Granite, ligonier | 485 | Gravel & sand conveyors.... | 275 | Grinders, sickle & mower knife | 1045 |
| Gold plated tubing..... | 1157 | Granite, mausoleum & vault builders | 485 | Gravity carriers (see conveyors, gravity). | | Grinders, silica or Chilian mill | 495 |
| Gold plated wire..... | 1204 | Granite meal | 485 | Gravity conveyors | 275 | Grinders, spur | 495 |
| Gold solder | 1055 | Granite, monumental | 485 | Gravity conveyors, spiral.. | 275 | Grinders, surface | 495 |
| Gold tubing | 1157 | Granite, monumental work.. | 485 | Gravity elevators | 373 | Grinders, swing frame..... | 495 |
| Gold & silver anodes..... | 10 | Granite paving blocks..... | 817 | Gravity filters | 434 | Grinders, tool | 496 |
| Gold & silver melting furnaces | 455 | Granite polishing lathes..... | 578 | Gravity incline machines.... | 641 | Grinders, tool post..... | 496 |
| Gold & silver mills | 779 | Granite polishing, machines (see machinery, stone polishing). | | Gravity lamps | 573 | Grinders, twist drill (see grinders, drill). | |
| Gold & silver solder..... | 1055 | Granite polishing, wheels.. | 1193 | Gravity railways | 935 | Grinders, universal | 496 |
| Gold & silver plated tubing.. | 1157 | Granite, Porphyry, Syenite & Labradorite..... | 485 | Gravity sheaves | 434 | Grinders, universal tool & cutter | 496 |
| Gold & silver plated wire .. | 1204 | Granite pressed brick mfrs .. | 106 | Grease, "Airoilene" for pneumatic tools | 491 | Grinders, valve | 496 |
| Gold & silver sheet & plate .. | 1204 | Granite producers, pink | 485 | Grease, axle | 491 | Grinders, vertical | 496 |
| Gold & silver wire..... | 1204 | Granite producers, workers & dealers | 485 | Grease boxes, plumbers'.... | 86 | Grinders, wet tool..... | 496 |
| Golf balls | 45 | Granite roofing | 993 | Grease cable & elevator shaft | 491 | Grinders, wood pulp..... | 496 |
| Golf forgings | 45 | Granite sawing machines (see machinery, stone sawing). | | Grease, cable & elevator shaft | 491 | Grinding attachment for engine lathes | 496 |
| Golf heads | 518 | Granite seam face | 489 | Grease cup lubricators (oil & grease cups) | 595 | Grinding compounds | 241 |
| Gondola cars | 188 | Granite & marble monument workers & dealers | 490 | Grease extractors (oil & grease) | 796 | Grinding lathes | 578 |
| Gong dies | 311 | Granite & marble polishing machinery | 641 | Grease, graphite | 491 | Grinding, machine | 618 |
| Gongs (see bells & gongs) .. | 483 | Granite & marble polishing supplies | 901 | Grease proof paper..... | 816 | Grinding machinery, tool (see grinders, plain tool). | |
| Gongs, electro-mechanical.. | 483 | Granite & stone cutters' tools | 1144 | Grease traps | 1150 | Grinding machines, card.... | 1119 |
| Gopher traps | 1150 | Granolithic stone side walks | 490 | Grease, wire drawing..... | 491 | Grinding machines, car box.. | 626 |
| Goring looms | 1126 | Grant noiseless door sheaves.. | 1039 | Greases, lubricating (oils & greases) | 592 | Grinding machines, clay.... | 629 |
| Gouges | 484 | Grant overhead sash pulleys.. | 1004 | Greases, lubricating (oils & greases) | 592 | Grinding machines, ink..... | 644 |
| Governor springs | 1060 | Granulated cork for insulation | 280 | Greek marble | 750 | Grinding machines, punch & die | 657 |
| Governors, compressors | 484 | Granulated rawbone..... | 937 | Green corn graters..... | 490 | Grinding machines, thread tool | 669 |
| Governors, elevator | 368 | Granulating machines | 641 | Greenhouse architects (see architects, horticultural). | | Grinding machines, tobacco knife | 670 |
| Governors, feed water (see regulators, feed water)... | | Granulators, sugar | 1098 | Greenhouse builders | 491 | Grinding machines, universal (see grinders, universal). | |
| Governors, gas | 484 | Grape pruner knives | 567 | Greenhouse fittings..... | 442 | Grinding mills..... | 779 |
| Governors, gasoline | 484 | Grape stemmer & crushing machines | 641 | Greenhouse heating | 527 | Grinding pans | 815 |
| Governors, motor compressor | 484 | Graphite bearings | 54 | Greenhouse materials | 491 | Grinding rolls | 955 |
| Governors, pressure | 484 | Graphite, bicycle | 490 | Greenhouse sash hinges..... | 530 | Grinding wheel dressers.... | 496 |
| Governors, pump | 484 | Graphite boxes & covers | 490 | Greenhouse tables & shelving, slate | 491 | Grinding wheels, alundum.... | 496 |
| Governors, steam engine | 484 | Graphite brushes | 111 | Greenhouse tile | 1137 | Grinding wheels, corrugated.. | 1193 |
| Governors, water level | 484 | Graphite cements | 214 | Greenhouse valves | 1168 | Grinding & corrugating, roll.. | 949 |
| Governors, water wheel | 484 | Graphite, commutator | 490 | Greenhouse ventilating apparatus | 1176 | Grinding & corrugating rolls. | 955 |
| Grab buckets..... | 113 | Graphite crucibles | 297 | Greenhouse & garden engines | 416 | Grinding & mixing machinery, paint | 650 |
| Grab hooks | 536 | Graphite grease | 491 | Greenhouse & hot bed sash.. | 1003 | Grinding & mixing machines, rubber | 660 |
| Grabs, clam shell & orange peel | 484 | Graphite lubricants..... | 592 | Green marble | 750 | Grinding & polishing machines | 641 |
| Grade indicating meters | 769 | | | Green pea cleaning & grading machines | 641 | Grinding & polishing machines, surface | 668 |
| Grader, ditcher & loader, combined | 314 | | | Grey iron castings | 201 | Grindstone boxes & frames.. | 496 |
| Graders, road machines & graders | 946 | | | Griddles | 491 | Grindstone fixtures..... | 496 |
| Grading wagons | 1182 | | | Griddles, cooking, soapstone. | 277 | Grindstones | 497 |
| Grading & cleaning machinery, grain | 641 | | | Grille, fret & lattice work.. | 491 | Grindstones, kitchen | 497 |
| Grading & cleaning machines, green pea | 641 | | | Grille or fret work (for the trade only) | 492 | Griotte marble | 750 |
| Grading & packing machines, fruit | 640 | | | Grilles, brass & bronze..... | 492 | Grip bolts, Harvey..... | 81 |
| Gradometers (see meters, distance recording). | | | | Grilles, spring hinges for.... | 492 | | |

| | Page | | Page | | Page | | Page |
|--|------|--|------|---|------|--|------|
| Grip hoists for hand ele- vators | 533 | Gun turning & boring lathes | 578 | Hammers, pavers' | 499 | Hand taps, machinists' | 1112 |
| Grip sockets | 1055 | Gun wrapping wire | 1204 | Hammers, pile drivers' | 499 | Hand tools, machinists' | 1145 |
| Grip, vise pipe | 1178 | Guns, rifles, etc. | 943 | Hammers, plumbers' | 499 | Hand torches, railroad | 1148 |
| Grips, cable | 497 | Guns & syringes, oil | 796 | Hammers, pneumatic (see pneumatic hammers, va- rious kinds) | | Hand vise & clamp com- bined | 225 |
| Grips, chain, tire | 497 | Gusset cutters | 1121 | Hammers, power | 499 | Hand vises | 1179 |
| Grips, nail | 497 | Gutta percha machinery | 641 | Hammers, rawhide (see mal- lets, rawhide) | | Hand winders | 1133 |
| Grips, steering lever | 497 | Gutter forming machines | 641 | Hammers, riveting | 500 | Hand & barrel carts | 193 |
| Grommet inserting dies & cutters | 497 | Gutter strainers | 1096 | Hammers, rotary riveting | 500 | Hand & belt power bending rolls | 955 |
| Grommet rings | 944 | Gutters, cypress (conductors & gutters) | 248 | Hammers, saddlers' | 500 | Hand & belt power elevators, combination | 369 |
| Grommet setting machines | 641 | Gutters, pavement | 10 | Hammers, saw | 500 | Hand & foot power planers | 825 |
| Grommets, metal | 497 | Guy anchors | 10 | Hammers, shoemakers' | 500 | Hand & foot power wood- working machinery | 676 |
| Groovers, sheet metal | 497 | Guy clamps | 227 | Hammers, slaters' | 500 | Hand & foot rails | 934 |
| Groovers, "Tuerk" | 497 | Guy derricks | 309 | Hammers, steam | 500 | Hand & push car wheels | 1193 |
| Grooving machines | 641 | Guy rods | 948 | Hammers, stone cutters | 500 | Hand & push cars | 188 |
| Grooving machines, roll | 659 | Guy wire hooks | 536 | Hammers, tack & nail | 500 | Hand & stretching fids | 433 |
| Grooving machines, slate | 665 | Gyn-nastic apparatus | 498 | Hammers, tinners' | 500 | Hand & tube hole punches | 924 |
| Grooving machines, tinnors' | 670 | "Gypsite" tile ceilings | 207 | Hammers, trip | 500 | Handle blank sawing ma- chines | 642 |
| Grooving plows | 835 | Gypsum machinery | 641 | Hammers, upholsterers' | 500 | Handle knives | 567 |
| Grooving saws | 1018 | Gyratory breakers | 90 | Hammers, vacuum | 500 | Handle machinery, broom | 624 |
| Ground connection clamps | 227 | | | Hammock hooks | 536 | Handle machinery, hoe | 642 |
| Ground detectors | 310 | | | Hammock mfrs. | 500 | Handle machinery, hammer & hatchet | 642 |
| Ground glass | 475 | | | Hammocks, woven wire | 500 | Handle machinery, pick & sledge | 653 |
| Ground key cocks & bibbs | 237 | | | Hampers & touring cases, automobile | 50 | Handle machinery, plow | 654 |
| Ground mandrels (hardened & ground) | 745 | | | Ham preserving pumps | 918 | Handle machinery, rake | 658 |
| Ground mica | 770 | | | Hand banding rolls | 1129 | Handle machinery, shovel | 664 |
| Ground soapstone | 1054 | | | Hand bending machines | 642 | Handle machines, pail | 650 |
| Ground & crushed lime | 584 | | | Hand blowers | 68 | Handle machines, wire | 672 |
| Grub hoes | 531 | | | Hand boring machines | 622 | Handle polishing machines | 642 |
| Grubbing machines | 641 | | | Hand cards | 1119 | Handle tumbling machines | 642 |
| Guano distributors | 497 | | | Hand cars (hand & push) | 188 | Handle turning lathes | 578 |
| Guard rail fasteners | 430 | | | Hand carts | 193 | Handle turning machinery (see lathes, handle turning) | 90 |
| Guards, automobile (fenders & guards) | 432 | | | Hand carts, street sweeping | 193 | Handles, adjustable auger | 500 |
| Guards, belt hole | 1117 | | | Hand corn planters | 826 | Handles, agricultural tool | 500 |
| Guards, car (gates & guards) | 182 | | | Hand drills, rock | 326 | Handles, boiler | 500 |
| Guards, cattle, for railways | 497 | | | Hand dump cars | 188 | Handles, bone | 500 |
| Guards, electric lamp | 497 | | | Hand dump shovels | 1044 | Handles, brake | 500 |
| Guards, hydro-extractor | 1124 | | | Hand elevators | 373 | Handles, canthook & peavey | 501 |
| Guards, journal box dust | 334 | | | Hand forks | 449 | Handles, chest | 501 |
| Guards, lawn | 497 | | | Hand grenades (see fire ex- tinguishers) | | Handles, circuit breaker | 501 |
| Guards, mower & reaper | 497 | | | Hand hammer drills, pneu- matic | 897 | Handles, document | 501 |
| Guards, railroad bridge | 498 | | | Hand hay rakes | 935 | Handles, drop forged ma- chine | 501 |
| Guards, shuttle | 1129 | | | Hand hoists | 534 | Handles, electric switch | 501 |
| Guards, tree | 498 | | | Hand hold straps | 1096 | Handles, enameled | 501 |
| Guards, wheel | 498 | | | Hand hole cutting machines, box | 622 | Handles, file | 501 |
| Guards, window | 1199 | | | Hand hole cutters | 302 | Handles, hickory | 501 |
| Guards, window appliances & guards, cleaning | 1198 | | | Hand hole cutting machines | 622 | Handles, leather | 501 |
| Guards, window, bronze & iron | 1199 | | | Hand knitting machines | 1125 | Handles, machine | 501 |
| Guards, window, Pitt-Bost- wick patents | 1199 | | | Hand lacing frames | 1123 | Handles, machine | 501 |
| Guards, wire for gas & elec- tric lights | 182 | | | Hand lamps, engineers' & machinists' | 573 | Handles, machine | 501 |
| Guards & gates, car | 182 | | | Hand lathes | 578 | Handles, ratchet | 501 |
| Guards & gates, elevator, folding | 368 | | | Hand made spikes | 1057 | Handles, ratchet brake | 501 |
| Guards & gates, elevator, Pitt-Bostwick, novelty & composite patents | 368 | | | Hand milling machines | 647 | Handles, screw driver | 501 |
| Guards & shields, engine | 376 | | | Hand numbering machines | 642 | Handles, soldering iron | 501 |
| Guide cups, locomotive (rod & guide) | 589 | | | Hand or power prospecting drills | 325 | Handles, surfacing file | 501 |
| Guide liner, locomotive | 589 | | | Hand picked nails | 790 | Handles, tub | 501 |
| Guide pulleys | 911 | | | Hand power benders, angle & eye | 62 | Handles, valve | 501 |
| Guide wires | 1123 | | | Hand power cranes | 293 | Handles, window & shutter | 501 |
| Guides, elevator | 498 | | | Hand power drills | 325 | Handles, wood | 501 |
| Guides, elevator, cold, com- pressed steel | 368 | | | Hand power elevators, in- valid | 373 | Handles, wood, fork, shovel & spade | 502 |
| Guides, porcelain & enamel- ed | 1123 | | | Hand power grinders (foot & hand power) | 494 | Handles, wood, hand tool, etc. | 502 |
| Guides, saw | 1016 | | | Hand power metal sawing machines | 646 | Handles, wood, pick & sledge | 502 |
| Guides, spooler | 1131 | | | Hand power punch & shear combined | 923 | Handles, wood switch | 1101 |
| Gulland tank valves | 1168 | | | Hand power punches | 924 | Handy wagons | 1182 |
| Gum lumber mfrs & whole- salers | 617 | | | Hand power punching presses | 907 | Hanger boards | 69 |
| Gum machines, chewing | 628 | | | Hand power riveters | 944 | Hanger bolts | 81 |
| Gum shellac | 1039 | | | Hand presses | 905 | Hanger irons | 561 |
| Gummed papers | 816 | | | Hand presses for rubber mfrs. | 905 | Hanger machines, eave trough | 636 |
| Gummer cutters | 302 | | | Hand rakes | 935 | Hanger, screws | 1028 |
| Gummers, saw | 498 | | | Hand rail brackets | 87 | Hangers, arc lamp | 503 |
| Gumming machines, paper box | 650 | | | Hand rail screws | 1028 | Hangers, cable | 503 |
| Gun barrel drilling machines | 641 | | | Hand rails | 934 | Hangers, concrete | 503 |
| Gun barrel reaming machines | 641 | | | Hand rails, steel | 500 | Hangers, conductor pipe | 503 |
| Gun barrel turning machines | 641 | | | Hand reamers | 937 | Hangers, conduit | 503 |
| Gun carriages | 184 | | | Hand rock drills | 326 | Hangers, cycle | 503 |
| Gun cleaners | 229 | | | Hand saw screws | 1028 | Hangers, door (see door hangers, various kinds) | 503 |
| Gun cleaning & reloading tools | 1144 | | | Hand saws | 1018 | Hangers, eave trough | 636 |
| Gun cotton (calking & gun) | 289 | | | Hand screw machines | 662 | Hangers, hinge & rail | 503 |
| Gun loading machinery | 641 | | | Hand screw machines, double turret | 662 | Hangers, I-beam & wall | 503 |
| Gun mfrs. (see rifles, guns, etc.) | | | | Hand seed garden sowers & drills | 1056 | Hangers, joist | 503 |
| Gun metal castings | 203 | | | Hand seed sowers | 1056 | Hangers, messenger | 503 |
| Gun powder machinery | 641 | | | Hand shearing machines | 642 | Hangers, metal | 503 |
| Gun powder presses | 905 | | | Hand shears | 1037 | Hangers or stirrups | 1079 |
| Gun screw rods | 948 | | | Hand spikes | 1057 | Hangers, parlor door | 317 |
| Gun stock machinery | 641 | | | Hand street sweepers | 1096 | Hangers, pipe | 504 |
| | | | | Hand tally registers | 940 | Hangers, post, pressed steel | 504 |
| | | | | Hand taps | 1112 | Hangers, ring rolling | 504 |
| | | | | | | Hangers, roller & ball bear- ing | 504 |
| | | | | | | Hangers, self-oiling | 504 |
| | | | | | | Hangers, shaft, post, bracket, etc. | 504 |
| | | | | | | Hangers, shaft, pressed steel | 504 |

| | Page | | Page | | Page | | Page |
|---|------|--|------|---|------|---|------|
| Hangers, shaft, structural steel | 504 | Harvesters & binders, grain | 517 | Heads, exhaust | 427 | Heel breaster knives | 568 |
| Hangers, sliding blind | 504 | Harvesting machinery (see harvesters, various kinds) | | Heads, golf | 518 | Helical springs | 1060 |
| Hangers, step | 504 | Harvesting & planting machinery, chicory | 628 | Heads, hollow auger | 518 | Heliographic & sun printing | 1099 |
| Hangers, trolley wire | 504 | Harvey grip bolts | 81 | Heads, index & dividing | 518 | Helm indicators | 543 |
| Hangers, tubular track | 504 | Hasp locks | 589 | Heads, piston | 518 | Helmet, ammonia | 528 |
| Hangers, window screen | 504 | Hasps & staples | 517 | Heads, planer | 518 | Helm hammers | 499 |
| Hangers & tracks, parallel door | 317 | Hat, coat & towel racks | 927 | Heads, polishing | 518 | Hemlock & spruce lumber (see lumber mfrs., etc.) | |
| Hanging lamps | 573 | Hat hooks (coat & hat) | 536 | Heads, railway | 1128 | Henry-Bonnard, architectural bronze | 110 |
| Hank winding machines | 1133 | Hat sewing machines | 1033 | Heads, rotary | 518 | Hercules wire | 1204 |
| Hard brass stair treads | 1063 | Hat & coat hook machines, automatic | 631 | Heads, screw cutting die | 518 | Hexagon reels | 938 |
| Hard fibre axle washers (see fibre mfrs., hard) | | Hat & coat racks, folding | 927 | Heads, spear, flag & banner | 1057 | Hickory handles | 501 |
| Hard fibre gear wheels | 1193 | Hatch door irons | 561 | Heads, turret | 518 | Hide stretching tables | 1103 |
| Hard fibre mfrs. | 433 | Hatch doors, automatic | 517 | Health insurance (see insurance, accident) | | Hide & leather, working machinery | 642 |
| Hard fibre, special shapes | 433 | Hatch doors, automatic in case of fire only | 517 | Heat generators, mercurial | 768 | High duty pumping engines | 417 |
| Hard fibre tubing | 1157 | Hatch gates, automatic (see elevator gates, automatic) | | Heat regulators | 941 | High pressure cast iron pipe | 194 |
| Hard oil finish | 505 | Hatchet mfrs. | 517 | Heat resisting paints | 813 | High pressure fittings | 442 |
| Hard oil finish, "Luxeberry" | 435 | Hatchet & hammer handle machinery | 642 | Heat utilizing, waste (see fuel economizers) | | High pressure piping | 824 |
| Hard rubber lathes | 578 | Hatchway & out-rigger hoists | 534 | Heaters, air tight wood | 518 | High pressure valves | 1168 |
| Hard waste breaking machines | 1118 | Hatters' machinery | 642 | Heaters, air, waste heat | 8 | High pressure tanks | 1107 |
| Hard wax floor polish | 444 | Haulage engines | 416 | Heaters, asphalt | 518 | High speed drill presses | 322 |
| Hardened & ground mandrels | 745 | Haulage machinery, cable | 625 | Heaters, automobile & carriage | 518 | High speed hoists | 534 |
| Hardeners, felt | 431 | Haulage & transmission steel rope | 999 | Heaters, barrel | 518 | High speed steel | 1073 |
| Hardening case | 193 | Haulers, electric truck | 1153 | Heaters, bath (see heaters, water) | | High speed steel furnaces | 455 |
| Hardening cylinders | 304 | Hauls, car | 182 | Heaters, boiler feed | 518 | High tee rails (girders & high tee) | 934 |
| Hardening, steel | 1072 | Hauls, log | 592 | Heaters, car | 518 | High tension pins | 821 |
| Hardening & tempering processes, etc. | 504 | Hay carrier tracks | 1149 | Heaters, combination | 518 | High voltage switches | 1101 |
| Hardies | 504 | Hay carriers | 184 | Heaters, electric | 518 | Highway crossing alarms (see signals, railway crossing) | |
| Hardware bins, movable | 505 | Hay fork pulleys | 912 | Heaters, electric car | 519 | Highway crossing bells | 57 |
| Hardware, builders' (see hardware mfrs.) | | Hay forks (see forks, various kinds) | | Heaters, feed water | 519 | Highway tracks, steel | 1149 |
| Hardware, builders' rustless | 505 | Hay harpoon forks | 449 | Heaters, fire engine & engine house | 519 | Hilliers, potato (coverers & hillers) | 902 |
| Hardware, builders' rustless & heavy | 558 | Hay hoisting singletrees | 1047 | Heaters, fireplace | 519 | Hinge lugs | 596 |
| Hardware, from architects' designs | 505 | Hay hooks | 537 | Heaters, gas (see stoves & heaters & ranges, gas) | | Hinge mfrs. | 528 |
| Hardware machinery | 642 | Header knives | 568 | Heaters, gas, for tool tempering | 519 | Hinge pins | 821 |
| Hardware mfrs. | 505 | Hay loader teeth | 1114 | Heaters, glue | 519 | Hinge plates | 528 |
| Hardware mfrs., automobile | 507 | Hay loaders | 586 | Heaters, gravel (see sand heaters & dryers) | | Hinge rivets | 945 |
| Hardware mfrs., awning | 507 | Hay tedders | 1113 | Heaters, hot water | 519 | Hinge & butt machinery | 642 |
| Hardware mfrs., belt | 507 | Hay presses | 905 | Heaters, juice | 1098 | Hinge & rail hangers | 503 |
| Hardware mfrs., builders' (see hardware mfrs.) | | Hay racks, folding | 517 | Heaters, lamp chimney | 519 | Hinges, awning | 528 |
| Hardware mfrs., cabinet | 507 | Hay racks, wire & iron | 517 | Heaters, oil (see stoves & heaters, oil) | | Hinges, ball bearing steel butt | 528 |
| Hardware mfrs., car | 507 | Hay rake teeth | 1114 | Heaters, steam & hot water | 519 | Hinges, basket | 528 |
| Hardware mfrs., carriage | 507 | Hay rakes, hand | 935 | Heaters, steam & hot water, trade names | 521 | Hinges, blind & shutter | 528 |
| Hardware mfrs., casket | 507 | Hay rakes, revolving | 935 | Heaters, tank | 523 | Hinges, box | 529 |
| Hardware mfrs., for sewing machine | 508 | Hay rakes, side delivery | 935 | Heaters, tar | 523 | Hinges, butt | 529 |
| Hardware mfrs., marine | 507 | Hay rakes, sulky | 936 | Heaters, tire (see furnaces, tire heating) | | Hinges, cellar door | 529 |
| Hardware mfrs., piano & organ | 508 | Hay rickerts (see rakes, sweep hay) | | Heaters, tire (see furnaces, tire heating) | | Hinges, cigar box | 529 |
| Hardware mfrs., saddlery | 508 | Hay rope | 999 | Heaters, water, automatic | 523 | Hinges, circular, door & window | 529 |
| Hardware mfrs., trunk & bag | 508 | Hay slings | 1053 | Heaters, water, bath or tank | 523 | Hinges, closet door | 529 |
| Hardware mfrs., upholstery | 508 | Hay stackers | 1063 | Heaters, water, coil | 523 | Hinges, closet seat | 529 |
| Hardware specialties | 508 | Hay tedders | 1113 | Heaters, water, instantaneous | 523 | Hinges, continuous | 529 |
| Hardware trimmings, porcelain (see porcelain specialties, electrical, etc.) | | Hay & corn cutter knives | 568 | Heaters, water, noiseless | 524 | Hinges, double-acting spring | 529 |
| Hardware, wholesale | 508 | Hayes' system fireproofing | 440 | Heaters, tank | 523 | Hinges, engine house | 529 |
| Hardwood doors | 319 | Haying tools | 1144 | Heaters, tar | 523 | Hinges, factory door | 529 |
| Hardwood flooring | 444 | Head boring machines | 642 | Heaters, tire (see furnaces, tire heating) | | Hinges, fancy box | 529 |
| Hardwood lagging | 571 | Header knives | 568 | Heaters, tire (see furnaces, tire heating) | | Hinges, fire shutter | 529 |
| Hardwood lumber (see lumber mfrs., etc.) | | Header trucks (binder & header) | 1154 | Heating apparatus, hot blast | 524 | Hinges, flask | 529 |
| Hardwood trim (see interior hardwood mfrs. & erectors) | | Headers, barrel | 517 | Heating coils, for steam or hot water heating | 524 | Hinges, flexible steel | 529 |
| Hardwood work, interior, mfrs. & erectors | 548 | Headers, bolt (see bolt heading machines) | | Heating contractors, steam & hot water | 524 | Hinges, floor | 529 |
| Harness chains | 218 | Headers, fruit can | 517 | Heating, fan system | 527 | Hinges, gate | 530 |
| Harness, contractors' | 515 | Headers, rivet (see rivet heading machines) | | Heating, forge | 446 | Hinges, greenhouse sash | 530 |
| Harness frames | 1123 | Headers, rod | 517 | Heating, furnace | 455 | Hinges, invisible | 530 |
| Harness hooks | 536 | Headers, screw blank | 517 | Heating, greenhouses | 527 | Hinges, lavatory spring | 530 |
| Harness machinery | 642 | Headers, stone | 517 | Heating, machines | 642 | Hinges, office gate | 530 |
| Harness oils | 797 | Headers, wire | 517 | Heating machines, barrel | 620 | Hinges, piano & organ | 530 |
| Harness riveting machines | 642 | Heading machinery, barrel, keg & stave | 620 | Heating, Paul system of steam | 527 | Hinges, plate | 530 |
| Harness sewing machines | 642 | Heading machines, bolt | 621 | Heating, thermometers | 1133 | Hinges, railway palace car spring | 934 |
| Harness snaps | 1054 | Heading machines, can | 625 | Heating, vacuum | 528 | Hinges, refrigerator | 530 |
| Harness soap | 1054 | Heading machines, rivet | 659 | Heating, vapor system | 528 | Hinges, screen door | 530 |
| Harness straps | 1123 | Heading machines, screw | 662 | Heating, vapor-vacuum system | 528 | Hinges, screw hook & eye | 530 |
| Harness twine | 1124 | Heading machines, solid die hot rivet | 665 | Heating, Webster system of steam | 528 | Hinges, sewing machine | 530 |
| Harnesses, loom | 1124 | Heading machines, wood screw | 675 | Heating & cooking stoves, gas | 461 | Hinges, show case | 530 |
| Harpoon forks, hay | 449 | Heading, upsetting & forging machines, combined | 642 | Heating & power fire box boilers | 436 | Hinges, shutter (blind & shutter) | 528 |
| Harpoons | 515 | Heading & pointing machines, picket | 653 | Heating & ventilating engineers, consulting | 528 | Hinges, special | 530 |
| Harp, trolley (see trolley line materials) | | Heading & stave machinery | 667 | Heating & ventilating engineers, contracting | 528 | Hinges, spring, bank & office railing | 530 |
| Harrow carts | 193 | Headless screws | 1028 | Heavy masonry contractors | 269 | Hinges, spring butt | 530 |
| Harrow points | 900 | Headlight oils | 797 | Hedge stands | 1124 | Hinges, spring door | 530 |
| Harrow teeth mfrs. | 515 | Headlights, acetylene gas | 517 | Heddle frames | 1123 | Hinges, spring, double acting | 530 |
| Harrows, disc | 515 | Headlights, arc | 517 | Heddles, braided | 1124 | Hinges, spring floor | 530 |
| Harrows, spading | 515 | Headlights, electric | 517 | Heddles, jacquard | 1124 | Hinges, spring, for grilles | 492 |
| Harrows, spring tooth | 515 | Headlights, incandescent | 517 | Heddles, steel | 1124 | Hinges, spring, palace railway car | 530 |
| Harrows & pulverizers | 516 | Headlights, locomotive | 517 | Heddles, wire | 1124 | Hinges, spring, safe makers' | 530 |
| Harvesters, bean & pea | 516 | Headlights, oil | 517 | Hedge shears | 1038 | Hinges, spring, wrought brass door | 530 |
| Harvesters, beet | 516 | Heads, boiler flanged | 71 | Hedge trimmers | 1151 | | |
| Harvesters, combined | 516 | Heads, boiler, pressed steel | 71 | Hedge & root knives | 568 | | |
| Harvesters, corn | 516 | Heads, coke scraper | 518 | | | | |
| Harvesters, rice | 517 | Heads, cutter | 518 | | | | |
| Harvesters & binders, corn | 280 | Heads, dado | 518 | | | | |

| | Page | | Page | | Page | | Page |
|--|------|--|--------------|-------------------------------|------|--|------|
| Hinges, spring, wrought brass & bronze door..... | 530 | Holsts, hatchway & out-rig- ger | 534 | Hollow tile, bottle rack..... | 84 | Hooks & rings, plate..... | 537 |
| Hinges, spring, wrought steel | 530 | Holsts, high speed..... | 534 | Hollow tile, fireproof..... | 440 | Hooks & tees, chain..... | 537 |
| Hinges, strap & T..... | 531 | Holsts, horse..... | 534 | Hollow ware, aluminum.... | 9 | Hoop drivers, coopers'..... | 328 |
| Hinges, trunk | 531 | Holsts, hydraulic | 534 | Hollow ware, enameled..... | 375 | Hoop drives | 537 |
| Hinges, wash tray | 531 | Holsts, machine shop, port- able | 534 | Hollow & jamper brick drills | 325 | Hoop driving machines, bar- rel | 620 |
| Hinges, wire | 531 | Holsts, mine | 534 | Hones, razor | 535 | Hoop knives | 568 |
| Hinges, wrought brass, cor- rugated | 531 | Holsts, platform pneumatic. | 897 | Hoods, arc lamp..... | 536 | Hoop machine knives..... | 568 |
| Hinges, wrought steel butt. | 531 | Holsts, pneumatic | 897 | Hoods, conning tower..... | 535 | Hoop machinery | 642 |
| Hinging machines, box | 622 | Holsts, pneumatic chain..... | 895 | Hoods, motor | 535 | Hoop nailing machines..... | 642 |
| Hinging machines, wire | 672 | Holsts, pneumatic trolley.... | 899 | Hoods, prismatic, electric | 909 | Hoop nails | 790 |
| Hlp metallic shingles | 1040 | Holsts, portable | 534 | Hoods, slashers | 1124 | Hoop riveting machines..... | 659 |
| Hlp rolls, terra cotta (see roofing tile, terra cotta). | | Holsts, quarry | 534 & 926 | Hoods, spray | 536 | Hoop rounders | 537 |
| Hip & valley cut squares.... | 1062 | Holsts, sidewalk (see eleva- tors, sidewalk). | | Hoods & protectors, arc lamp | 536 | Hoop & rivet applying ma- chines | 659 |
| Hitching hooks | 537 | Holsts, steam | 534 | Hoop or bone dryers..... | 330 | Hoops, mast | 537 |
| Hitching or mine chains.... | 218 | Holsts, telepher (see telepher- age, electric conveying). | | Hoop bands, spindle..... | 1130 | Hoops, soft steel | 537 |
| Hitching post caps..... | 181 | Holsts, traveling | 534 | Hook bending machines..... | 642 | Hoops, truss | 537 |
| Hitching posts | 901 | Holsts, warehouse, portable. | 534 | Hook blocks | 67 | Hoops, wire | 538 |
| Hitching posts, wood..... | 901 | Holder-on, pneumatic rivet. | 898 | Hook head bolts..... | 81 | Hop packing machines..... | 642 |
| Hitching rings | 944 | Holders, bag | 534 | Hook machines, automatic | 640 | Hop plows | 835 |
| Hitching snaps | 1054 | Holders, belt | 58 | gate | 640 | Hopper cars | 188 |
| Hitching weights | 1190 | Holders, bobbin..... | 1117 | Hook & chain stone crabs.. | 1080 | Hopper doors | 319 |
| Hitchings, mine car..... | 531 | Holders, brush | 534 | Hook & eye benders..... | 62 | Hopper scales | 1020 |
| Hob taps | 1112 | Holders, candle | 534 | Hook & eye bolts..... | 81 | Hopper valves | 1168 |
| Hobs, bolt cutter..... | 531 | Holders, carbon | 534 | Hook & eye machinery..... | 642 | Hoppers, corn, wire..... | 280 |
| Hobs, die | 531 | Holders, card & label..... | 534 | Hook & eye mfrs.... | 536 | Hoppers for power plants... | 538 |
| Hobs, worm | 531 | Holders, Christmas tree.... | 535 | Hook & eye screws..... | 1028 | Hoppers, grain..... | 538 |
| Hod elevators | 373 | Holders, chucking reamer... | 535 | Hook & ladder trucks..... | 1154 | Hoppers, loading | 538 |
| Hod hoisting machines (see elevators, hod). | | Holders, die-plate..... | 535 | Hooks, anchor trip..... | 536 | Horizontal boring & drilling machines | 622 |
| Hods, coal | 531 | Holders, die & tap..... | 535 | Hooks, awning | 536 | Horizontal drilling machines | 636 |
| Hods, mortar & brick..... | 531 | Holders, door (see door stops). | | Hooks, bale & box..... | 536 | Horizontal presses | 905 |
| Hoe handle machinery..... | 642 | Holders, electric drop lamp. | 535 | Hooks, barrel | 536 | Horizontal punching ma- chines | 657 |
| Hoe mfrs..... | 531 | Holders, electric lamp..... | 535 | Hooks, belt | 536 | Horizontal re-sawing ma- chines | 658 |
| Hoe rolling machines..... | 642 | Holders, extension bit (see bits, expansive). | | Hooks, bench | 536 | Horizontal tapping machines | 669 |
| Hoeing machines, tobacco.. | 670 | Holders, file | 535 | Hooks, bill | 536 | Horn blowers, foot..... | 538 |
| Hoes, grub | 531 | Holders, fishing rod..... | 535 | Hooks, bird cage..... | 536 | Horn presses | 905 |
| Hoes, horse | 531 | Holders, flag pole..... | 535 | Hooks, boat & mooring.... | 536 | Horn working machinery... | 642 |
| Hoes, scuffle..... | 531 | Holders, for bit brace..... | 535 | Hooks, box (cotton & box)... | 536 | Horning & wiring presses... | 905 |
| Hoes, wheel | 531 | Holders, gas | 461 | Hooks, cant (see canthooks). | | Horns, automobile..... | 538 |
| Hog nose cutters..... | 302 | Holders, globe (see holders, shade). | | Hooks, carrying | 536 | Horns, fog | 538 |
| Hog ring punches..... | 924 | Holders, label | 534 | Hooks, ceiling | 536 | Horns, phonograph | 819 |
| Hog ringers | 943 | Holders, mop (see mop sticks & holders). | | Hooks, chain (hooks & tees). | 537 | Horse blanket fasteners.... | 430 |
| Hog scrapers | 1024 | Holders, pipe nipple..... | 535 | Hooks, clam | 536 | Horse clippers | 230 |
| Hog tongs | 1141 | Holders, radial light..... | 535 | Hooks, clothes line..... | 536 | Horse clipping machines.... | 642 |
| Hog & bull rings..... | 944 | Holders, revolving twlst drill | 535 | Hooks, coat & hat..... | 536 | Horse clipping shears..... | 1037 |
| Holst chains | 219 | Holders, sack (see holders, bag). | | Hooks, conductor pipe..... | 536 | Horse collar machinery.... | 642 |
| Holst hooks | 537 | Holders, sandpaper | 535 | Hooks, corn | 536 | Horse collars..... | 538 |
| Holst & conveyor combined. | 531 | Holders, sash | 1003 | Hooks, cornice | 536 | Horse hay forks..... | 449 |
| Hoisting blocks, cargo, wood & iron | 67 | Holders, scraper | 535 | Hooks, cotton & box..... | 536 | Horse hoes | 531 |
| Hoisting buckets | 113 | Holders, shade or globe.... | 535 | Hooks, crate & basket..... | 536 | Horse hoists | 534 |
| Hoisting chains, laminated.. | 219 | Holders, stake | 535 | Hooks, gaff..... | 536 | Horse measurers | 538 |
| Hoisting crabs..... | 292 | Holders, tap (die & tap).... | 535 | Hooks, gate (hooks & eyes).. | 537 | Horse muzzles | 789 |
| Hoisting drums | 328 | Holders, telephone (see brackets, desk telephone). | | Hooks, grab | 536 | Horse nails | 790 |
| Hoisting engine controllers.. | 273 | Holders, tillery, copper can- ning | 535 | Hooks, grass | 536 | Horse power pumping outfits | 913 |
| Hoisting engines..... | 417 | Holders, tire bolt..... | 535 | Hooks, guy wire..... | 536 | Horse power road rollers... | 950 |
| Holsting engines, contract- ors' | 418 | Holders, toilet paper..... | 535 | Hooks, hammock..... | 536 | Horse powers | 538 |
| Hoisting engines, gas or gas- oline | 418 | Holders, tumbler, etc..... | 535 | Hooks, harness | 536 | Horse powers, tread..... | 538 |
| Hoisting engines, pneumatic. | 419 | Holders, twine | 535 | Hooks, hay | 537 | Horse radish graters..... | 490 |
| Hoisting engines, portable... | 421 | Holders, wire | 535 | Hooks, hitching | 537 | Horse rasps..... | 936 |
| Hoisting grapples, stone.... | 490 | Hole cutters, automatic peg & lace | 1121 | Hooks, holst | 537 | Horse shoe calks (see toe calks, steel). | |
| Hoisting machinery | 642 | Hole cutting machines, hand | 642 | Hooks, insulated | 537 | Horse shoe machinery..... | 642 |
| Holsting towers for coal & ore | 1148 | Hole cutting machines, mar- ble, oval | 645 | Hooks, jack | 1124 | Horse shoe pads, rubber.... | 1000 |
| Hoisting & dumping tubs.... | 1158 | Hole drilling machines, blast | 621 | Hooks, ladder | 537 | Horse shoe taps..... | 1112 |
| Holsts, air motor (see holsts, pneumatic). | | Hole drilling machines, test. | 669 | Hooks, lamp | 537 | Horse shoers' vises..... | 1179 |
| Holsts, ash | 531 | Hole guards, belt..... | 1117 | Hooks, log | 593 | Horse shoes | 1042 |
| Holsts, automobile | 531 | Hollow auger heads..... | 518 | Hooks, lug | 596 | Horse shoes, rubber..... | 1042 |
| Holsts, belt | 531 | Hollow axles & shafts..... | 43 | Hooks, lumbermen's | 537 | Horse tooth files..... | 434 |
| Holsts, blast furnace..... | 532 | Hollow balls | 45 | Hooks, meat | 537 | Horse whims | 1196 |
| Holsts, builders' electric.... | 532 | Hollow blast grates (see grate bar mfrs.). | | Hooks, moulding | 537 | Horse & ox muzzles..... | 789 |
| Holsts, chain..... | 532 | Hollow brick mfrs..... | 106 | Hooks, packing | 537 | Horticultural architects.... | 34 |
| Holsts, chain, pneumatic.... | 895 | Hollow building block ma- chinery | 642 | Hooks, picture | 537 | Hose, acid | 538 |
| Holsts, coal handling..... | 532 | Hollow building blocks..... | 67 | Hooks, plpe | 537 | Hose, air brake..... | 538 |
| Holsts, coal, incline travel- ing | 532 | Hollow chisel bits..... | 64 | Hooks, plate (hooks & rings) | 537 | Hose, air, pneumatic ham- mer, etc..... | 538 |
| Holsts, concrete bucket..... | 532 | Hollow chisel mortising ma- chines | 642 | Hooks, potato, manure, etc. | 537 | Hose bands | 46 |
| Holsts, contractors' & build- ers' wheelbarrow..... | 532 | Hollow concrete building blocks | 67 | Hooks, reed | 1124 | Hose, braided..... | 538 |
| Holsts, distillate | 532 | Hollow drills | 325 | Hooks, releasing, for Davits | 537 | Hose carriages & carts..... | 538 |
| Holsts, dock & deck..... | 532 | Hollow forgings | 447 | Hooks, "S" or eight..... | 537 | Hose clamps | 227 |
| Holsts, drum | 532 | Hollow mills | 780 | Hooks, safety, for mine cages | 537 | Hose clamps, air brake.... | 225 |
| Holsts, electric | 532 | Hollow mills, adjustable.... | 777 | Hooks, sash pull..... | 537 | Hose cleaners | 229 |
| Holsts, electric chain..... | 533 | Hollow mortising chisels.... | 223 | Hooks, school house..... | 537 | Hose connectors (see coup- lings, hose). | |
| Holsts, electric mine | 533 | Hollow or trepanning saws.. | 1018 | Hooks, screw | 537 | Hose, corrugated tender.... | 538 |
| Holsts, electric, reversible | 533 | Hollow seamless steel shaft- ing | 1034 | Hooks, shackle..... | 537 | Hose, cotton | 538 |
| Holsts, electric friction | 533 | Hollow set screws..... | 1029 | Hooks, shave | 537 | Hose couplings..... | 290 |
| Holsts, electric traveling.... | 533 | Hollow shafts & axles..... | 43 | Hooks, shoe & glove..... | 537 | Hose couplings, pneumatic.. | 897 |
| Holsts, electric trolley..... | 533 | | | Hooks, sign | 537 | Hose expanders | 428 |
| Holsts, foundry, portable.... | 533 | | | Hooks, snap | 537 | Hose, fire | 539 |
| Holsts, friction & flat fric- tion | 533 | | | Hooks, stable door..... | 537 | Hose, flexible metallic..... | 539 |
| Holsts, gasoline | 533 | | | Hooks, tag | 537 | Hose, flexible steel armored. | 539 |
| Holsts, grip, for hand ele- vators | 533 | | | Hooks, telephone hanger... | 537 | Hose, garden, steam, mill, etc. | 539 |
| Holsts, hand | 534 | | | Hooks, tent (hooks & eyes). | 537 | Hose, linen | 540 |
| | | | | Hooks, towing | 537 | Hose machines, rubber mill. | 643 |
| | | | | Hooks, truck | 537 | Hose, marlin woven..... | 540 |
| | | | | Hooks, window pole..... | 537 | Hose menders | 540 |
| | | | | Hooks, wire | 537 | Hose nipples | 792 |
| | | | | Hooks & eyes, brace..... | 537 | Hose nozzles | 792 |
| | | | | Hooks & eyes, brass & steel | 537 | Hose, pneumatic tool..... | 540 |
| | | | | Hooks & eyes, gate..... | 537 | | |
| | | | | Hooks & eyes, tent..... | 537 | | |

| | Page | | Page | | Page | | Page |
|---|------|--|-----------|---|------|---|------|
| Hose, protected | 540 | Hub grinders (cup, cone & hub) | 493 | Hydraulic, pupil valves..... | 1168 | Importers, cement (see cement importers). | |
| Hose reels & racks, fire..... | 939 | Hub mortising machine | 643 | Hydraulic pump mfrs. (see pumps, hydraulic, various kinds). | | Importers, Italian marble... | 751 |
| Hose rivets | 945 | Hub, spoke & rim machinery | 643 | Hydraulic pumping engines..... | 419 | Importers, marble | 571 |
| Hose, rubber | 540 | Hubs, automobile, ball & roller bearing | 541 | Hydraulic punching machines | 657 | Importers, metal..... | 768 |
| Hose signals, electric | 540 | "Hugite" friction boards..... | 69 | Hydraulic rams | 541 | Importers, onyx | 797 |
| Hose, sprinklers | 1061 | Huller knife grinders..... | 494 | Hydraulic recording gauges | 468 | Importers, steel..... | 1073 |
| Hose, steam | 540 | Huller & pulp stones | 1091 | Hydraulic regulators | 941 | Importers, tile | 1137 |
| Hose, steel armor protected | 540 | Hullers, clover | 541 | Hydraulic riveting machines | 659 | Importers, tin plate | 1138 |
| Hose, strainers | 1096 | Hullers, coffee & rice | 541 | Hydraulic rubber vulcanizing presses | 906 | Importers, white marble | 751 |
| Hose, suction | 540 | Hullers, cotton seed | 541 | Hydraulic shears | 1037 | Importers & exporters, metal | 768 |
| Hose valves..... | 1168 | Hullers or blanchers, peanut | 541 | Hydraulic steel riveted pipe..... | 822 | Importers & mfrs., asphaltum | 37 |
| Hose wagons | 1182 | Hullers, pea & bean | 541 | Hydraulic testing machines..... | 669 | Incandescent gas burners | 177 |
| Hose, wire wound | 540 | Hulling machinery, pea | 652 | Hydraulic turbines | 1158 | Incandescent gas chimneys & shades | 223 |
| Hosiery bands & labels | 1124 | Hulling machinery, rice & coffee | 658 | Hydraulic valves | 1168 | Incandescent gas mantles..... | 750 |
| Hosiery boards | 1124 | Humidifying apparatus | 1124 | Hydraulic wheel presses..... | 906 | Incandescent headlights..... | 517 |
| Hosiery knitting machines | 1125 | Humiditor | 541 | Hydraulic & valve leather..... | 582 | Incandescent lamp bases..... | 50 |
| Hosiery machines (see knitting machines). | | Humidors, cigar..... | 541 | Hydro-carbon burners | 177 | Incandescent lamp bulbs..... | 176 |
| Hosiery striping attachments..... | 1124 | Hunting knives | 568 | Hydro-carbon incandescent lamps | 574 | Incandescent lamp cleaners..... | 229 |
| Hosiery tom-toms..... | 1131 | Huntington mills..... | 780 | Hydro-carbon, miners & refiners | 542 | Incandescent lamp cords | 279 |
| Hosiery winders | 1133 | Huskers, corn (pickers & huskers) | 819 | Hydro-extractor guards | 1124 | Incandescent lamp making machinery | 644 |
| Hospital furniture | 459 | Huskers & shredders, corn | 541 | Hydro-extractors | 1124 | Incandescent lamp replacers & cleaners | 572 |
| Hot air clothes dryers..... | 232 | Husking goods, corn | 280 | Hydrofluoric acid | 1 | Incandescent lamp sockets..... | 572 |
| Hot air furnace mfrs | 455 | Husking pins | 541 | Hydro riveters, pneumatic..... | 897 | Incandescent lamps (see lamps). | |
| Hot air furnaces, aeolipyle for | 3 | Hydrant clamps | 227 | Hydrogen & oxygen cylinders | 304 | Incandescent light globes..... | 482 |
| Hot air, gas for fuel furnaces | 455 | Hydrant sets chains | 219 | Hydrogen & oxygen tanks..... | 1107 | Inclinerators, garbage..... | 542 |
| Hot air pumping engines..... | 419 | Hydrant & street washers | 1185 | Hydrometers | 542 | Incline cableway engines..... | 419 |
| Hot air registers..... | 940 | Hydrant & water pipe clamps | 227 | Hydrostatic levels..... | 583 | Incline drums | 328 |
| Hot bed sash | 1003 | Hydrants | 541 | Hydrostatic weighing machines | 643 | Incline machines, gravity..... | 641 |
| Hot blast heating apparatus | 524 | Hydrants, crane | 541 | Hydrostatic wheel presses | 906 | Incline planes..... | 542 |
| Hot blast stoves | 1095 | Hydrants, fire | 541 | Hypodermic syringes | 1103 | Incline railways (see stairways, moving). | |
| Hot blast stoves, three pass..... | 1095 | Hydrants, fire boat | 541 | | | Incline traveling coal hoists | 532 |
| Hot blast valves..... | 1168 | Hydrants, fire crane attachment | 541 | | | Inclinable presses | 906 |
| Hot cut-off saws | 1018 | Hydrated lime | 584 | | | Inclinable presses, Bliss..... | 903 |
| Hot forge nut machines | 643 | Hydrating machinery, lime..... | 645 | | | Inclines for drums | 328 |
| Hot metal or slag cars | 188 | Hydraulic accumulators..... | 1 | | | Inclinometers | 542 |
| Hot pressed nut machines..... | 649 | Hydraulic ash ejectors | 336 | | | Indemnity bond insurance..... | 547 |
| Hot pressed nuts..... | 794 | Hydraulic bending machines | 621 | | | Independent condensers (see condensers, steam). | |
| Hot process galvanizing | 460 | Hydraulic cements | 214 | | | Index centers | 216 |
| Hot rivet heading machines, solid die | 663 | Hydraulic classifiers | 228 | | | Index plates | 830 |
| Hot roll dryers for veneer lumber | 331 | Hydraulic cocks | 235 | | | Index & dividing heads..... | 518 |
| Hot rolled stock straightening & cutting machinery, automatic | 643 | Hydraulic concrete testing jacks | 562 | | | Indexes, card | 183 |
| Hot rolled strip steel | 1073 | Hydraulic cranes | 294 | | | Indexes, crank | 296 |
| Hot sawing machines..... | 643 | Hydraulic crank pin presses..... | 906 | | | Indian clubs | 542 |
| Hot water clothes dryers | 232 | Hydraulic cylinders..... | 304 | | | Indian club turning lathes..... | 578 |
| Hot water faucets..... | 430 | Hydraulic draw benches..... | 62 | | | Indicator attachment | 542 |
| Hot water heater brushes | 112 | Hydraulic dredging machinery | 636 | | | Indicator cocks | 235 |
| Hot water heaters (steam & hot water) | 519 | Hydraulic dredging pumps..... | 918 | | | Indicator, lightning | 584 |
| Hot water heaters, trade names | 521 | Hydraulic elevator service pumps | 918 | | | Indicator posts | 901 |
| Hot water radiators..... | 927 | Hydraulic elevators | 373 | | | Indicator stands | 1066 |
| Hot water radiator valves..... | 1170 | Hydraulic engineers | 409 | | | Indicator valves | 1168 |
| Hot water registers | 940 | Hydraulic engines, for blowing church organs | 419 | | | Indicators, centre | 542 |
| Hot water regulators | 941 | Hydraulic fittings | 442 | | | Indicators, combination | 542 |
| Hot water storage, steel tanks | 1109 | Hydraulic flanging presses | 906 | | | Indicators, combined gas & steam | 542 |
| Hot water tank regulators..... | 942 | Hydraulic forging machines | 639 | | | Indicators, continuous diagram | 542 |
| Hot water thermometers | 1134 | Hydraulic forging presses | 906 | | | Indicators, draught | 542 |
| Hot water & steam radiators | 927 | Hydraulic forming machines | 639 | | | Indicators, electric speed | 542 |
| Hot well thermometers..... | 1134 | Hydraulic gauges (see gauges, water). | | | | Indicators, elevator | 542 |
| Hot & cold blast valves..... | 1168 | Hydraulic giants | 474 | | | Indicators for elevators, mechanical | 767 |
| Hotel calls (see annunciators). | | Hydraulic gravel elevators | 373 & 491 | | | Indicators, friction | 542 |
| Hotel cooking apparatus (see cooking apparatus). | | Hydraulic hoists | 534 | | | Indicators, fuel level | 542 |
| Hotel & school ventilated wardrobes | 1183 | Hydraulic indicators | 543 | | | Indicators, gas engine | 543 |
| Hotels | 541 | Hydraulic ingot strippers (electric & hydraulic)..... | 544 | | | Indicators, helm | 543 |
| House bells | 57 | Hydraulic jacks | 562 | | | Indicators, hydraulic | 543 |
| House brackets, electric | 87 | Hydraulic jacks, concrete testing | 562 | | | Indicators, lathe | 543 |
| House heating boilers (see heaters, steam & hot water). | | Hydraulic lead pipe presses | 906 | | | Indicators, lightning | 543 |
| House movers' rollers | 949 | Hydraulic leather | 582 | | | Indicators, log setting | 543 |
| House moving jacks | 562 | Hydraulic leather belting presses | 906 | | | Indicators, low water (see alarms, low water). | |
| House numbers (see numbers & letters, metal). | | Hydraulic lifting riveting machines | 659 | | | Indicators, machine | 543 |
| House organ builders..... | 541 | Hydraulic lifts | 583 | | | Indicators, mean pressure | 543 |
| House raising screws (see screws, building movers'). | | Hydraulic lime | 584 | | | Indicators, mechanical, for elevators | 767 |
| House safes | 1001 | Hydraulic macaroni presses..... | 906 | | | Indicators, mine water | 543 |
| House varnishes | 1174 | Hydraulic machinery | 643 | | | Indicators, oil can..... | 543 |
| House wreckers (see building materials, second hand). | | Hydraulic machine punching machines | 657 | | | Indicators, outside spring | 543 |
| House & porch trimmings..... | 541 | Hydraulic mining machinery | 648 | | | Indicators, polarity | 543 |
| Household articles, asbestos | 36 | Hydraulic mining nozzles | 793 | | | Indicators, potential | 543 |
| Houses or arbors, summer..... | 1099 | Hydraulic packing | 801 | | | Indicators, speed | 543 |
| Houses, portable | 901 | Hydraulic pipe | 822 | | | Indicators, station | 543 |
| Howe bull chains | 219 | Hydraulic pipe bending presses | 906 | | | Indicators, steam engine | 543 |
| Hub band bending & truing rolls | 955 | Hydraulic pipe, steel riveted | 822 | | | Indicators, tank | 543 |
| Hub boring bits | 64 | Hydraulic portable presses | 906 | | | Indicators, test | 543 |
| Hub boring machines | 643 | Hydraulic portable riveting machines | 659 | | | Indicators, valve | 543 |
| Hub boxing machines | 643 | Hydraulic presses (see presses, hydraulic, various kinds). | | | | Indicators, water | 543 |
| Hub caps | 181 | Hydraulic proving pumps | 918 | | | Indicators, wire rope | 543 |

| | Page | | Page | | Page | | Page |
|----------------------------------|------|----------------------------------|------|------------------------------------|-----------|-----------------------------------|------|
| Industrial locomotives | 590 | Insulation, cold storage & re- | | Iron fencing | 555 | Iron working machinery..... | 558 |
| Industrial railway switches..... | 1102 | frigerator | 546 | Iron fenders (brass & iron)..... | 432 | Iron & brass fountain blocks | |
| Industrial railway turn- | | Insulator clamps..... | 227 | Iron ferrules | 432 | (brass & iron) | 67 |
| tables | 1160 | Insulator lathes | 578 | Iron filler cements..... | 214 | Iron & brass pipe railings .. | 929 |
| Industrial railways | 935 | Insulator pin, bracket & | | Iron fillers | 560 | Iron & glass doors | 319 |
| Industrial & mine locomo- | | cross-arm machinery..... | 644 | Iron fire box plate..... | 555 | Iron & steel angles, chan- | |
| tives | 590 | Insulator pins, brackets, etc. | 546 | Iron fire sets (brass & iron)..... | 441 | nels & tees | 558 |
| Industrial & portable rail- | | Insulator stud & straight | | Iron flag poles | 443 & 900 | Iron & steel band & hoop .. | 558 |
| ways | 935 | hanger | 546 | Iron flumes | 445 | Iron & steel bar | 558 |
| Infants' bath tubs..... | 51 | Insulator supports | 546 | Iron forgings | 447 | Iron & steel boiler & tank | |
| Infusorial earth | 335 | Insulators | 546 | Iron founders (see machin- | | plate | 559 |
| Ingots | 189 | Insulators, strain | 546 | ists & founders)..... | | Iron & steel cements | 214 |
| Ingot extractors | 543 | Insulators, third rail..... | 546 | Iron founders, malleable..... | 450 | Iron & steel corrugated mfrs | 559 |
| Ingot lathes | 378 | Insulators, tree | 546 | Iron furring & lathing..... | 460 | Iron & steel discs | 313 |
| Ingot molds | 782 | Insulators, trolley..... | 546 | Iron gates (bronze & iron)..... | 466 | Iron & steel ferrules | 432 |
| Ingot strippers | 1097 | Insurance, accident | 546 | Iron gin blocks..... | 67 | Iron & steel fillers | 560 |
| Ingot strippers, electric & | | Insurance, employers' liabil- | | Iron hay racks (wire & iron)..... | 517 | Iron & steel flag poles .. | 900 |
| hydraulic | 544 | ity | 546 | Iron lined tubing | 1157 | Iron & steel floor plates .. | 830 |
| Ingot trucks | 1155 | Insurance, health..... | 547 | Iron locomotive jacket..... | 589 | Iron & steel forgings | 447 |
| Ingots, aluminium | 544 | Insurance, indemnity bond..... | 547 | Iron mantels, electro-bronze | | Iron & steel picket fences .. | 431 |
| Ingots, brass & copper | 544 | Insurance & inspection, ele- | | plated | 749 | Iron & steel planers | 825 |
| Ingots, bronze | 544 | vator | 547 | Iron muck bar | 555 | Iron & steel posts | 901 |
| Ingots, "Parson's" manga- | | Insurance & inspection, steam | | Iron, Norway (see iron & | | Iron & steel rolling mills..... | 951 |
| nese bronze | 544 | boiler | 547 | steel, Swedish)..... | | Iron & steel roofing & sid- | |
| Ingots, phosphor bronze..... | 544 | Intensifier pumps | 918 | Iron ores | 798 | ing | 998 |
| Ingots, steel | 544 | Intensifier & unifying salts, | | Iron, ornamental (see iron, | | Iron & steel sheet | 560 |
| Ingots, zinc | 544 | blue print | 69 | architectural & ornament- | | Iron & steel sheet, electri- | |
| Injector strainers..... | 1096 | Interchangeable hammers..... | 499 | al)..... | | cal | 560 |
| Injectors, boiler..... | 544 | Intercoolers, air | 547 | Iron ornaments & figures | | Iron & steel sheet, galvan- | |
| Injectors, exhaust..... | 544 | Interior decorations | 305 | (see fountains, vases, etc.)..... | | ized | 560 |
| Injectors, locomotive..... | 544 | Interior dust & dirt extract- | | Iron oxide | 799 | Iron & steel skelp | 561 |
| Injectors, oil..... | 544 | ors | 428 | Iron oxide paints | 813 | Iron & steel squares | 1062 |
| Ink eradicators | 426 | Interior finish, metal covered | | Iron, oxidized, rustless | 557 | Iron & steel, Swedish | 561 |
| Ink erasers | 426 | Interior finish, wholesale | | Iron paints (see paints for | | Iron & steel tanks | 1107 |
| Ink grinding machines..... | 644 | mfrs. | 547 | coating & preserving iron | | Iron & steel toys..... | 1148 |
| Ink mills..... | 780 | Interior hardwood work | | & steel)..... | | Iron & steel trolley poles .. | 900 |
| Inks, draughting..... | 321 | mfrs. & erectors..... | 548 | Iron picket fences..... | 431 | Iron & steel washers | 1184 |
| Inlet mfrs., sewer..... | 1032 | Interior paints | 813 | Iron pier builders (see steel | | Iron & wood cargo hoisting | |
| Inlets, fresh air..... | 544 | Interior telephones | 1114 | structural work)..... | | blocks | 67 |
| Inner arc globes..... | 482 | Interior trim, kalamein..... | 548 | Iron, pig | 556 | Ironing machines (see laun- | |
| Inserted teeth cutters..... | 302 | Interlocking bolts..... | 81 | Iron pipe (see pipe & tube | | dry machinery)..... | |
| Inserted teeth saws..... | 1018 | Interlocking channel bars | | mills)..... | | Irons, bar | 561 |
| Inserting machines, fly..... | 639 | (see piling, interlocking | | Iron pipe, lead or tin lined.. | 822 | Irons, burling | 1118 |
| Inserting machines, valve..... | 671 | steel)..... | | Iron pipe railings | 929 | Irons, cable | 561 |
| Inside folding blinds..... | 66 | Interlocking cutters | 302 | Iron, planished (see locomo- | | Irons, calking | 561 |
| Inside sliding blinds..... | 66 | Interlocking metal tile..... | 1137 | tive jacket iron)..... | | Irons, corner & brace..... | 561 |
| Inspecting machines, cloth..... | 1119 | Interlocking rubber tiling..... | 1137 | Iron plaques for fireplace | | Irons, curling | 561 |
| Inspection cars | 189 | Interlocking sheet wood pil- | | backs | 556 | Irons, derrick | 308 |
| Inspection motor cars..... | 190 | ing | 821 | Iron posts | 901 | Irons, dog | 561 |
| Inspection, steel | 1073 | Interlocking steel piling..... | 821 | Iron railing fittings..... | 442 | Irons, extension brace | 561 |
| Inspector of iron, steel & | | Interlocking switches..... | 1102 | Iron railing makers' spring | | Irons, hanger | 561 |
| concrete | 544 | Interlocking system signals..... | 1045 | hinges | 530 | Irons, hatch door | 561 |
| Inspectors' gauges..... | 468 | Internal gears | 472 | Iron railing posts | 901 | Irons, laundry, electric | 580 |
| Inspirators (see injectors)..... | | International system, fire- | | Iron railings & fences | 556 | Irons, pinking | 561 |
| Instantaneous water heaters..... | 523 | proofing | 440 | Iron rails (see rails, steel) | | Irons, plane | 561 |
| Institutions, technical (see | | Invalid chairs | 221 | Iron rods (see rods, various | | Irons, polishing | 561 |
| engineering schools & col- | | Invalid elevators, hand power | | kinds)..... | | Irons, porch post | 561 |
| leges)..... | | 373 | | Iron roofing & siding | 998 | Irons, sad | 1001 |
| Instruments, astronomical... 545 | | Invisible hinges | 530 | Iron rosettes & pickets | 999 | Irons, sash cord | 561 |
| Instruments, electrical test- | | Involute cutters | 302 | Iron, rustless, oxidized | 557 | Irons, shuttle | 1129 |
| ing & measuring..... | 545 | Irish moss | 784 | Iron scrap | 1022 | Irons, step (see pole steps)..... | |
| Instruments, leveling..... | 545 | Iron angles (iron & steel)..... | 558 | Iron separators | 1031 | Irons, tuyere | 561 |
| Instruments, nautical | 545 | Iron, architectural & orna- | | Iron settees & chairs | 1032 | Irons, waffle | 561 |
| Instruments of precision..... | 545 | mental | 548 | Iron shafting | 1034 | Irons, wall | 561 |
| Instruments, scientific | 545 | Iron axles (see axles various | | Iron sheet | 560 | Irrigating pumps | 918 |
| Instruments, scientific, sec- | | kinds)..... | | Iron sheet, electrical | 560 | Isinglass | 561 |
| ond hand | 545 | Iron, band & hoop (iron & | | Iron sheet, galvanized | 560 | Italian marble importers .. | 751 |
| Instruments, surveying & | | steel) | 558 | Iron shop sawing machines..... | 664 | Italian white marble | 751 |
| engineering | 378 | Iron bar & rod cutters..... | 302 | Iron shutters (see shutters, | | | |
| Instruments, telegraph | 545 | Iron bedstead mfrs. (brass or | | steel)..... | | Jack chains | 219 |
| Instruments & meters, elec- | | iron) | 55 | Iron skelp (iron & steel) .. | 561 | Jack frames | 1123 |
| trical testing..... | 1117 | Iron bedstead tubing..... | 1157 | Iron snatch blocks (iron & | | Jack hooks | 1124 |
| Insulated bolts | 81 | Iron blocks | 67 | wood) | 68 | Jack screws | 1028 |
| Insulated couplings..... | 291 | Iron blocks, coal hoisting..... | 67 | Iron spikes (see spikes, vari- | | Jack spools, steel head | 1131 |
| Insulated handle screw driv- | | Iron blocks, malleable..... | 67 | ous kinds)..... | | Jacket cans | 180 |
| ers | 1026 | Iron boiler & tank plate (iron | | Iron split pulleys | 912 | Jacket iron, locomotive | 589 |
| Insulated hooks | 537 | & steel) | 559 | Iron squares | 1062 | Jacketed cylinders, water .. | 304 |
| Insulated joints for electrical | | Iron bolts (see bolts, various | | Iron stail builders | 557 | Jacketed cylindrical dryers..... | 331 |
| track circuits..... | 545 | kinds)..... | | Iron stars | 1066 | Jacketed tanks | 1108 |
| Insulated racks | 927 | Iron bridge builders (see | | Iron staybolt | 558 | Jackers, log | 592 |
| Insulated staples..... | 1066 | bridge builders, steel)..... | | Iron, steel & heavy hard- | | Jacks, automobile | 561 |
| Insulated wire..... | 1204 | Iron bridge plate (see plate, | | ware dealers | 558 | Jacks, bridge | 562 |
| Insulating asphalt | 545 | steel bridge)..... | | Iron store fronts, galvanized..... | 1092 | Jacks, car | 562 |
| Insulating brick..... | 545 | Iron caissons, sheet..... | 179 | Iron structural dealers (see | | Jacks, car replacing | 562 |
| Insulating cloth | 545 | Iron casting fillers..... | 434 | steel structural dealers)..... | | Jacks, carriage (see jacks, | |
| Insulating compounds..... | 545 | Iron castings | 555 | Iron structural shapes (see | | wagon)..... | |
| Insulating fibre | 545 | Iron cements | 214 | steel structural shapes)..... | | Jacks, gas pumping | 562 |
| Insulating joints..... | 545 | Iron channels | 558 | Iron structural work (see | | Jacks, geared | 562 |
| Insulating machinery, wire..... | 673 | Iron charcoal sheet..... | 555 | steel structural work)..... | | Jacks, house moving | 562 |
| Insulating machines | 644 | Iron clothes reel centers..... | 232 | Iron studs, milled | 1097 | Jacks, hydraulic | 562 |
| Insulating material | 545 | Iron coal hoisting blocks..... | 67 | Iron sulphate | 1099 | Jacks, hydraulic concrete | |
| Insulating paints | 813 | Iron construction work (see | | Iron summer houses | 558 | testing | 562 |
| Insulating papers | 545 | iron & steel structural | | Iron, Swedish (see iron & | | Jacks, ladder & scaffold | |
| Insulating plaster | 546 | work)..... | | steel, Swedish)..... | | support | 562 |
| Insulating press boards..... | 546 | Iron, copper plating of..... | 278 | Iron tanks | 1107 | Jacks, lifting | 562 |
| Insulating saddle staples..... | 546 | Iron, corrugated, mfrs. (iron | | Iron tees, angles, channels, | | Jacks, locomotive | 562 |
| Insulating solder, etc. (see | | & steel)..... | 559 | etc. | 558 | Jacks, log | 562 |
| soldering paste, etc.)..... | | Iron discs | 313 | Iron towers & tanks (see | | Jacks, pneumatic | 897 |
| Insulating tape | 1111 | Iron door & window caps, | | towers, steel)..... | | Jacks, pulling | 563 |
| Insulating varnish | 546 | galvanized | 181 | Iron toys | 1148 | | |
| Insulating "Vulcabeston"..... | 546 | Iron doors | 555 | Iron trolley poles..... | 900 | | |
| Insulating washers | 1184 | Iron, electrical | 555 | Iron window frames for pow- | | | |
| | | Iron enamels..... | 376 | er houses, factories, etc..... | 1199 | | |

| | Page | | Page | | Page | | Page |
|---|------|--|------|---|------|--|------|
| Jacks, pumping | 563 | Joints, universal | 564 | Kilns, dry | 566 | Knives, excelsior | 567 |
| Jacks, ratchet | 563 | Joist, anchor & timber caps | 564 | Kilns, lime burning | 566 | Knives, fur cutter | 567 |
| Jacks, roble | 563 | Joist hangers | 503 | Kilns, lime, sugar refining | 1098 | Knives, gaining cutter | 567 |
| Jacks, screw | 563 | Joist or timber tongs | 1141 | Kilns, roasting | 566 | Knives, gauge lathe | 567 |
| Jacks, stone | 563 | Jolly machines for stone- ware, etc. | 644 | Kilns, rotary | 566 | Knives, grape pruner | 567 |
| Jacks, track | 563 | Journal bearings | 54 | Kilns & fliters, char | 1097 | Knives, handle | 567 |
| Jacks, traveling | 563 | Journal box dust guards | 334 | Kilns & fliters, charcoal | 435 | Knives, hay | 567 |
| Jacks, wagon | 563 | Journal box lids | 583 | Kindergarten supplies | 566 | Knives, hay & corn cutter | 568 |
| Jacks, wrecking | 563 | Journal boxes | 85 | Kindling wood machinery | 644 | Knives, header | 568 |
| Jacquard card repeaters | 1119 | Journal coolers, car | 182 | "Kirker Bender" fire escapes | 437 | Knives, hedge & root | 568 |
| Jacquard card stitching ma- chines | 1119 | Journal coolers, car | 182 | Kitchen grindstones | 497 | Knives, heel breaster | 568 |
| Jacquard cards | 1119 | Joveite explosives | 564 | Kitchen knives | 568 | Knives, hoop | 568 |
| Jacquard heddles | 1124 | Juice heaters | 1098 | Kitchen utensils for hotels, etc. (see cooking appa- ratus) | 568 | Knives, hoop machine | 568 |
| Jacquard looms | 1126 | Juice pumps | 918 | Kits, tire repair | 1140 | Knives, hunting | 568 |
| Jail & cell work, steel | 563 | Junction boxes | 85 | Kneading & mixing ma- chines | 644 | Knives, jointer | 568 |
| Jam riveters, pneumatic | 897 | Junior surfacers, pneumatic | 897 | Kneading & mixing machines, dough | 635 | Knives, kitchen | 568 |
| Jam & check nuts | 794 | Jute carpet looms | 1126 | Kneading & mixing machines, dough | 635 | Knives, lawn mower | 568 |
| Jamper brick & hollow drills | 325 | Jute machinery | 1124 | Knees, ship | 1042 | Knives, leather cutting | 568 |
| Japan oils | 797 | Jute packing | 801 | Knife balancing machinery | 644 | Knives, leather splitting | 568 |
| Japanese gold paints | 813 | Jute presses | 906 | Knife grinders | 494 | Knives, linotype | 568 |
| Japanning barrels | 48 | Jute spinning machinery | 1130 | Knife grinders, planer | 495 | Knives, listing jointer | 568 |
| Japanning or baking burners | 177 | | | Knife grinders, sickle & mower | 1045 | Knives, lithograph stone | 568 |
| Japanning or baking ovens | 799 | | | Knife handle wrenches | 1213 | Knives, logwood | 568 |
| Japanning & tinning | 1140 | | | Knife polishing & buffing machines | 644 | Knives, loom | 1125 |
| Japans | 563 | | | Knife sharpeners | 1036 | Knives, loom, carpet | 568 |
| Japans, asphalt (varnishes & Japans) | 1174 | | | Knife sharpeners, mower | 1036 | Knives, machine | 568 |
| Japans, baking | 563 | | | Knife switches | 1102 | Knives, machine, general | 568 |
| Jar ring lathes | 578 | | | Knife & scissors grinders | 494 | Knives, machine, woodwork- ing | 568 |
| Jars, battery | 53 | | | Knit fabric cutters | 1121 | Knives, marble cutter bit | 568 |
| Jars, fruit | 564 | | | Knit fabric slitters & re- winders | 1124 | Knives, matcher | 568 |
| Jars, rubber battery | 53 | | | Knit goods bleachers | 1117 | Knives, meat slicer | 568 |
| Jaw chucks | 224 | | | Knit goods finishing ma- chines | 1122 | Knives, metal shear | 568 |
| Jaw crushers | 298 | | | Knit goods presses | 1128 | Knives, mincing | 568 |
| Jaws, brake | 88 | | | Knitting machine attach- ments | 1124 | Knives, mitre | 568 |
| Jean looms | 1126 | | | Knitting machine cylinders | 1121 | Knives, moulding machine | 568 |
| Jet blowers | 69 | | | Knitting machine cylinders & dials | 1121 | Knives, mower & reaper | 568 |
| Jet condensers | 247 | | | Knitting machine needles | 1127 | Knives, oilcloth | 568 |
| Jet pumps or syphon ejectors | 336 | | | Knitting machine stop mo- tions | 1126 | Knives, overlay | 568 |
| Jet water & sand lifting eductors | 336 | | | Knitting machinery | 1124 | Knives, oyster & clam | 569 |
| Jewelers' anvils | 11 | | | Knitting machinery, bal- moral | 1125 | Knives, painters' | 569 |
| Jewelers' furnaces | 456 | | | Knitting machines, cardigan jacket | 1125 | Knives, panel raising | 569 |
| Jewelers' machinery | 644 | | | Knitting machines, circular | 1125 | Knives, paper | 569 |
| Jewelers' rolls | 955 | | | Knitting machines, family | 1125 | Knives, paper-box machine | 569 |
| Jewelers' saws | 1018 | | | Knitting machines, hand | 1125 | Knives, paper cutter | 569 |
| Jewelers' screw drivers | 1026 | | | Knitting machines, hosiery | 1125 | Knives, paper hangers' | 569 |
| Jewelers' tools (watchmak- ers' & jewelers') | 1147 | | | Knitting machines, rib | 1125 | Knives, paring | 569 |
| Jewelers' vises | 1179 | | | Knitting machines, seamless | 1125 | Knives, planer | 569 |
| Jewelers' & opticians' ma- chines & tools | 644 | | | Knitting mill supplies | 1125 | Knives, plush | 569 |
| Jib cranes | 294 | | | Knitting needles, spring | 1127 | Knives, pocket (see cutlery mfrs.) | 569 |
| Jib cranes, electric walking | 294 | | | Knives, apple grinder | 566 | Knives, putty | 569 |
| Jib walking cranes | 294 | | | Knives, banana | 566 | Knives, rag cutter | 569 |
| Jig saw blades (band & jig) | 1015 | | | Knives, band cutter & self- feeder | 566 | Knives, rand | 569 |
| Jig sawing machines, metal | 646 | | | Knives, bark grinder | 566 | Knives, rattan | 569 |
| Jig saws | 1018 | | | Knives, barrel machine | 566 | Knives, roll scraper | 569 |
| Jiggers | 1124 | | | Knives, bean harvester | 566 | Knives, rubber | 569 |
| Jigs, coal | 564 | | | Knives, beet topper | 566 | Knives, scarf | 569 |
| Jigs for concentrating mills | 564 | | | Knives, belt | 567 | Knives, scraper | 569 |
| Jim crows | 564 | | | Knives, bone cutter | 567 | Knives, shear cutter | 569 |
| Jockey chains | 219 | | | Knives, bookbinder | 567 | Knives, sheet steel | 569 |
| Joggers, paper | 564 | | | Knives, box corner cutter | 567 | Knives, shingle | 569 |
| Joggling machines for ship yards | 644 | | | Knives, bread | 567 | Knives, shoe | 569 |
| Joint clamps, steam | 227 | | | Knives, brick | 567 | Knives, shredder | 569 |
| Joint connections, slip | 249 | | | Knives, broom corn | 567 | Knives, skiver | 569 |
| Joint nuts | 794 | | | Knives, butchers' | 567 | Knives, slaw & vegetable | 569 |
| Joint plates | 831 | | | Knives, cane | 567 | Knives, solid steel shear | 569 |
| Joint remover, lead | 581 | | | Knives, carpet | 567 | Knives, spiral of all classes | 569 |
| Jointer knives | 563 | | | Knives, carving | 567 | Knives, spiral tenon | 569 |
| Jointers' hammers (carpent- ers' & jointers') | 498 | | | Knives, celluloid | 567 | Knives, splitter | 569 |
| Jointers, masons' | 564 | | | Knives, cheese | 567 | Knives, spoke lathe | 569 |
| Jointers, pipe | 564 | | | Knives, chipper | 567 | Knives, sportsmen's | 569 |
| Jointers, saw tooth | 564 | | | Knives, chipping | 567 | Knives, stove cutter | 569 |
| Jointers, shingle | 564 | | | Knives, chopping | 567 | Knives, stereotype | 570 |
| Jointers, stave | 564 | | | Knives, cigar | 567 | Knives, stop cutter | 570 |
| Jointing machines, band saw stave | 620 | | | Knives, clam | 569 | Knives, straw cutter | 570 |
| Jointing machines, glue | 641 | | | Knives, clothes pin | 567 | Knives, tack machine | 570 |
| Jointing machines, pipe | 634 | | | Knives, clover huller | 567 | Knives, tanners' skiving | 570 |
| Jointing machines, stave | 667 | | | Knives, cooperage | 567 | Knives, textile shear | 570 |
| Jointing & sawing machines | 445 | | | Knives, cope cutter | 567 | Knives, tobacco | 570 |
| Jointless floors | 662 | | | Knives, cord wood splitter | 567 | Knives, veneer | 570 |
| Joints, ball | 564 | | | Knives, cork | 567 | Knives, woodbarking ma- chine | 570 |
| Joints, brass spring | 564 | | | Knives, corn harvester | 567 | Knives, wood flooring machine | 570 |
| Joints, expansion | 564 | | | Knives, cotton seed huller | 567 | Knives, wood pulp | 570 |
| Joints, filtering | 564 | | | Knives, cotton shear | 567 | Knives, wood surfacing ma- chine | 570 |
| Joints, flexible | 564 | | | Knives, curd | 567 | Knives, wood tenoning ma- chine | 570 |
| Joints, insulated, for elec- trical track circuits | 545 | | | Knives, cutters, serrated | 570 | Knives, wood trimming ma- chine | 570 |
| Joints, insulating | 545 | | | Knives, dehorner | 567 | Knobs, base | 570 |
| Joints, jadder | 564 | | | Knives, dirk | 567 | Knobs, carpet | 570 |
| Joints, rail | 928 | | | Knives, double edge | 567 | Knobs, door (see door knobs, various kinds) | 570 |
| Joints, rail, continuous | 929 | | | Knives, dowel | 567 | Knocked down boats | 70 |
| Joints, roof | 955 | | | Knives, drawing | 567 | Knocked down furniture | 459 |
| Joints, splice (see bars, splice) | 564 | | | Knives, ensilage | 567 | Knockers, colonial door | 318 |
| Joints, sucker rod | 564 | | | | | Knockers, door | 570 |
| Joints, swing | 564 | | | | | Knotters, spooler | 1125 |
| | | | | | | Knotting machines, spring | 666 |
| | | | | | | Knuckle joint presses | 906 |
| | | | | | | Knuckle pins | 821 |

| | | | | | | | |
|--|------|--|------|--|------|---|-----------|
| Knuckles, steel | 570 | Lamp cleaners, incandescent | 229 | Last lathes | 578 | Lathes, precision | 578 |
| Knurled nuts | 794 | Lamp clutches, arc | 232 | Last machinery | 644 | Lathes, projectile boring & turning | 578 |
| Knurling lathes | 578 | Lamp cords (see cords flexible). | | Latch needles | 1127 | Lathes, pulley turning | 578 |
| Knurls | 570 | Lamp globes, arc | 482 | Latches, barn door | 575 | Lathes, rake handle (see rake handle machinery). | |
| Kraut cutters | 302 | Lamp guards, electric | 497 | Latches, cupboard | 575 | Lathes, rake handle | 578 |
| Kraut cutting machines | 644 | Lamp hooks | 537 | Latches, elevator door | 575 | Lathes, roll engraving | 578 |
| Krushite for sawing stone | 570 | Lamp posts | 571 | Latches, fire door | 575 | Lathes, roll polishing | 578 |
| Kuhne's system for fireproofing | 441 | Lamp posts, electric arc | 571 | Latches, gate | 575 | Lathes, roll turning | 578 |
| Kyanized lumber | 596 | Lamp replacers & cleaners, incandescent | 572 | Latches, night | 575 | Lathes, roughing | 578 |
| | | Lamp sockets, electric | 1055 | Latches, refrigerator | 575 | Lathes, screw cutting | 578 |
| | | Lamp sockets, incandescent | 572 | Latches, shutter | 575 | Lathes, shaft turning | 579 |
| | | Lamp trimmers | 572 | Latches, sliding door (locks & latches, sliding door) | 589 | Lathes, shoe last turning | 579 |
| | | Lamp wicks | 1197 | Latches, spring | 575 | Lathes, slide rests for | 1053 |
| Label holders | 535 | Lamps, acetylene house | 572 | Latches, thumb | 575 | Lathes, speed | 579 |
| Label holders (card & label) | 534 | Lamps, arc | 572 | Lath blinders & trimmers | 575 | Lathes, spinning | 579 |
| Label mfrs | 570 | Lamps, arc, gas | 572 | Lath bolters (see lath mills & bolters) | 576 | Lathes, spoke | 579 |
| Label varnishing machines | 644 | Lamps, arc, gasoline | 572 | Lath, expanded metal | 576 | Lathes, spool | 579 |
| Labeling machines | 644 | Lamps, arc, machine shop | 572 | Lath fasteners, metallic | 576 | Lathes, stone | 579 |
| Labeling machines, textile | 1125 | Lamps, arc, photo-engraving | 572 | Lath, metal | 576 | Lathes, stone polishing | 579 |
| Labels, underwear | 1125 | Lamps, automobile, gas & oil | 572 | Lath mill machinery | 644 | Lathes, strapping | 579 |
| Labels & bands, hosiery | 1124 | Lamps, bicycle | 572 | Lath mills & bolters | 576 | Lathes, table leg turning | 579 |
| Laboratories, chemical & physical | 570 | Lamps, bronze | 110 | Lath, sheet iron | 576 | Lathes, ten pin turning | 579 |
| Laboratories, testing | 1117 | Lamps, bronze, artistic wrought | 572 | Lath, steel | 576 | Lathes, tree nail | 579 |
| Laboratory apparatus & supplies | 570 | Lamps, car | 572 | Lath, wire | 576 | Lathes, trimming | 580 |
| Laboratory centrifugal machines | 628 | Lamps, carriage | 573 | Lath, wood, Byrkit-Hall | 576 | Lathes, turret | 580 |
| Laboratory machinery | 644 | Lamps, derrick | 573 | Lath yarn | 1215 | Lathes, variety turning | 580 |
| Laboratory vacuum pumps | 918 | Lamps, desk, electric | 573 | Lath & picket mills | 576 | Lathes, watchmakers' | 580 |
| Labradorite granite | 485 | Lamps, electric portable | 573 | Lath & plaster substitute, (see compo-boards). | | Lathes, winding | 580 |
| Lace hole & automatic peg cutters | 1121 | Lamps, gasoline | 573 | Lath center grinders | 495 | Lathes, wood polishing | 580 |
| Lace leather | 570 | Lamps, gauge (see lamps, locomotive gauge). | | Lath centers | 216 | Lathes, wood pulley | 580 |
| Lace leather cutters | 302 | Lamps, gravity | 573 | Lath chucks | 224 | Lathes, wood working | 580 |
| Lace leathers | 1125 | Lamps, hand, engineers' & machinists' | 573 | Lath dogs | 315 | Lathes, worm threading | 580 |
| Lace machinery | 1125 | Lamps, hanging | 573 | Lath indicators | 543 | Lathes, yacht spar | 580 |
| Lacers, automatic lock & loop stitch | 1125 | Lamps, incandescent electric | 573 | Lath pans | 815 | Lathing, iron (furling & lathing) | 460 |
| Lacing, belt | 58 | Lamps, incandescent, electric car | 573 | Lath slide rests | 1053 | Lattice column riveters, pneumatic | 897 |
| Lacing frames, hand | 1123 | Lamps, incandescent gas | 573 | Lath sockets | 1055 | Lattice, fret & grille work | 491 |
| Lacing machines, belt | 620 | Lamps, incandescent gasoline | 574 | Lath spindles | 1058 | Lattice work (grille, fret & lattice) | 491 |
| Lacing studs | 1097 | Lamps, incandescent, hydro-carbon | 574 | Lath threading tools | 1145 | Laughing galleries | 580 |
| Lacquer mfrs | 570 | Lamps, incandescent, kerosene | 574 | Lath tools | 1145 | Launch builders | 785 |
| Lacqueret household lacquer | 570 | Lamps, incandescent, miniature | 574 | Lath & planer tools | 1145 | Launch or yacht engines | 426 |
| Lacquering for the trade | 570 | Lamps, incandescent, renewed | 574 | Lathes, axle turning | 577 | Launch trimmings (boat & launch) | 70 |
| Lacquer machines | 644 | Lamps, incandescent, street series | 574 | Lathes, ball bat (see ball bat machinery). | | Launches | 580 |
| Lacquer machines, can | 625 | Lamps, incandescent, vapor gas | 574 | Lathes, barrel | 577 | Laundry dryers | 580 |
| Lacquerling & varnishing machines, tin plate | 669 | Lamps, locomotive gauge | 574 | Lathes, bench | 577 | Laundry irons, electric | 580 |
| Lacquers, anti-rust | 570 | Lamps, marine, oil | 574 | Lathes, bobbin (see spool & bobbin machinery). | | Laundry machinery | 644 |
| Lacquers, machine | 570 | Lamps, mercury vapor | 574 | Lathes, bolt & stud | 577 | Laundry stoves | 1095 |
| Ladder hook | 537 | Lamps, mine, acetylene | 574 | Lathes, brass finishers' | 577 | Laundry supplies, electric | 580 |
| Ladder joints | 564 | Lamps, miners' safety | 574 | Lathes, broom handle turning (see broom handle turning machinery). | | Laundry tub covers | 580 |
| Ladder rounds, miners' | 570 | Lamps, motor (see lamps, automobile, gas & oil). | | Lathes, brush handle | 577 | Laundry tub legs | 580 |
| Ladder sockets | 1055 | Lamps, "Nernst" | 574 | Lathes, buffing & polishing | 577 | Laundry tubs, artificial stone | 580 |
| Ladder spurs & points | 1061 | Lamps, photo engraving | 574 | Lathes, car & driving wheel | 577 | Laundry tubs, enameled iron (see bath tubs, enameled iron). | |
| Ladder trucks (hook & ladder) | 1154 | Lamps, pocket, electric | 574 | Lathes, chasing | 577 | Laundry tubs, Euclid stone | 580 |
| Ladder & hook trucks | 1154 | Lamps, portable table (see lamps, table). | | Lathes, chucking (see chucking machinery). | | Laundry tubs, glazed fire clay | 580 |
| Ladder & scaffold support jacks | 562 | Lamps, railway | 574 | Lathes, crank shaft turning | 577 | Laundry tubs, porcelain (see bath tubs, porcelain). | |
| Ladders | 570 | Lamps, reading, electric light | 351 | Lathes, cutting-off | 577 | Laundry tubs, slate | 580 |
| Ladders, extension scaffold | 571 | Lamps, reading, gas & electric light | 464 | Lathes, drill | 577 | Laundry tubs, soapstone | 580 |
| Ladders, folding roof | 571 | Lamps, semaphore signal | 574 | Lathes, driving wheel (car & driving wheel) | 577 | Laundry wagons | 1182 |
| Ladders, rolling & trolley | 571 | Lamps, signal | 574 | Lathes, dumb bell turning | 577 | Lava gas tips | 462 |
| Ladders, steel | 571 | Lamps, station | 574 | Lathes, engine | 577 | Lavatories, ship | 581 |
| Ladders, store sliding | 571 | Lamps, street | 574 | Lathes, facing | 577 | Lavatories & fittings | 581 |
| Ladders & trucks, firemen's | 571 | Lamps, switch | 575 | Lathes, foot power | 577 | Lavatory legs | 581 |
| Ladle cars | 189 | Lamps, table | 575 | Lathes, forging (see lathes, engine). | | Lavatory spring hinges | 581 & 530 |
| Ladle cranes | 294 | Lamps, torch | 575 | Lathes, forming | 577 | Lavatory trimmings | 581 |
| Ladle sleeves & nozzles | 571 | Lamps & portables, electric light reading | 351 | Lathes, Fox monitor | 578 | Lawn furniture | 581 |
| Ladle stoppers & nozzles | 1092 | Land ditching machines, farm | 638 | Lathes, gap (see lathes, engine). | | Lawn guards | 497 |
| Ladles, Bessemer plant | 571 | Land & field rollers | 949 | Lathes, gauge | 578 | Lawn mower knives | 568 |
| Ladles, cylinder car | 571 | Landscape architects | 34 | Lathes, granite column | 578 | Lawn mower mfrs | 581 |
| Ladles, crane or truck | 571 | Lantern lead | 581 | Lathes, granite polishing | 578 | Lawn mower mfrs., horse | 581 |
| Ladles, foundry | 571 | Lantern globes | 482 | Lathes, grinding | 578 | Lawn mower oils | 797 |
| Ladles, melting & plumbers' | 571 | Lanterns, artistic wrought | 575 | Lathes, gun turning & boring | 578 | Lawn mower sharpeners | 1036 |
| Ladles, mining | 571 | Lanterns, artistic wrought & bronze | 575 | Lathes, hand | 578 | Lawn or garden rakes | 935 |
| Ladles, open hearth & Bessemer plant | 571 | Lanterns, bicycle | 575 | Lathes, handle turning | 578 | Lawn rollers | 950 |
| Ladles, slag | 571 | Lanterns, dashboard | 575 | Lathes, hard rubber | 578 | Lawn settees & chairs | 1032 |
| Ladles & cars, slag | 1051 | Lanterns, police | 575 | Lathes, indlan club turning | 578 | Lawn shears, grass | 1033 |
| Lafarge cements | 214 | Lanterns, railway | 575 | Lathes, ingot | 578 | Lawn sprinklers | 581 |
| Lag screw gimlet pointing machines | 644 | Lanterns, tubular | 575 | Lathes, insulator | 578 | Lawn sweepers | 581 |
| Lag screw machines | 662 | Lap welding rolls | 955 | Lathes, jar ring | 578 | Lawn swings | 1100 |
| Lag screw threading machine | 644 | Lappers & openers, cotton | 1127 | Lathes, knurling | 578 | Lawn & garden rollers | 950 |
| Lag screw wrenches | 1213 | Lappling machines | 644 | Lathes, last | 578 | Lawn & porch furniture | 459 |
| Lag & coach screws | 1028 | Lard palls, tin | 805 | Lathes, long handle | 578 | Lead, antimonial | 581 & 10 |
| Lagging, hardwood | 571 | Lard & tallow presses | 906 | Lathes, manual training | 578 | Lead black | 65 |
| Lagging, locomotive | 589 | Larries | 575 | Lathes, marble turning (see lathes, stone). | | Lead burning outfits | 581 |
| Laminated holsting chains | 219 | Larry coke wagons | 1182 | Lathes, monitor | 578 | Lead casting moulds | 783 |
| Lamp adjusters | 2 | | | Lathes, neck-yoke & single-tree | 578 | Lead castings | 203 |
| Lamp black mfrs | 571 | | | Lathes, optical grinding | 578 | Lead cocks | 235 |
| Lamp bulbs, incandescent | 176 | | | Lathes, patternmakers' | 578 | Lead covered cables | 178 |
| Lamp burner shaft machinery | 644 | | | Lathes, photo-engravers' | 578 | Lead covered wire (see cables, lead covered). | |
| Lamp burners | 177 | | | Lathes, pike pole turning | 578 | Lead diaphragm taps | 1112 |
| Lamp chimney heaters | 519 | | | Lathes, polishing | 578 | Lead dog chains | 218 |
| Lamp chimneys | 222 | | | Lathes, polishing & grinding | 637 | Lead figures | 433 |

| | Page | | Page |
|------------------------------------|------|--------------------------------------|------|
| Lead hammer molds..... | 783 | Leather washers | 1184 |
| Lead joint remover..... | 581 | Leather whitening machines..... | 645 |
| Lead, lantern | 581 | Leather working machinery | |
| Lead lined bearings..... | 54 | (see hide & leather work- | |
| Lead lined iron pipe..... | 822 | ing machinery). | |
| Lead lined pipe fittings..... | 442 | Leather woven belting mfrs..... | 62 |
| Lead lined valves..... | 1168 | Leathers, decorative art..... | 308 |
| Lead mfrs., white & red..... | 1197 | Leathers, lace | 1125 |
| Lead or metal glass setting..... | 480 | Leathers, pump..... | 582 |
| Lead, oxide of..... | 799 | Ledgers, loose leaf..... | 582 |
| Lead pencils | 818 | Leese warpers | 1132 |
| Lead, pig | 582 | Legs, bench | 62 |
| Lead pipe | 582 | Legs, counter | 582 |
| Lead pipe benders..... | 62 | Legs, laundry tub..... | 580 |
| Lead pipe couplings..... | 291 | Legs, lavatory | 581 |
| Lead pipe hydraulic presses..... | 906 | Legs, sink & wash tray..... | 582 |
| Lead pipe reamer or tap bor- | | Legs, urinal (see urinal fit- | |
| ers | 937 | tings & trimmings). | |
| Lead pipe, sheet & pig lead | | Lehrs, glass | 582 |
| mfrs. | 582 | Lemon squeezers | 1062 |
| Lead pipe, tin lined..... | 822 | Lenses, Semaphore | 582 |
| Lead pipe & trap machinery..... | 645 | Lenses, signal lamp | 582 |
| Lead pots | 902 | Letter boxes (see boxes mail). | |
| Lead refining plants..... | 582 | Letter drills | 325 |
| Lead ribbon | 582 | Letter drills, twist | 327 |
| Lead screws | 1028 | Letter openers | 797 |
| Lead, sheet | 582 | Letters, bronze, for build- | |
| Lead stair treads..... | 1063 | ing fronts | 110 |
| Lead tack mfrs..... | 1104 | Letters, decalcomania (num- | |
| Lead tanks | 1108 | bers & letters)..... | 793 |
| Lead tape | 1111 | Letters, metal (numbers & | |
| Lead tempering furnaces..... | 456 | letters) | 793 |
| Lead traps, bends & ferrules..... | 582 | Letters, pattern..... | 582 |
| Lead valves | 1168 | Letters, porcelain sign | 582 |
| Lead washers | 1184 | Letters, sign, cast iron | 582 |
| Lead, wedge..... | 1189 | Letters, transfer | 582 |
| Lead, wedge & monumental..... | 582 | Letters, wood | 582 |
| Lead, white & red..... | 1197 | Letters & figures, pattern | 582 |
| Lead, wire | 1205 | Letters & numbers, decalco- | |
| Lead & tin lined iron pipe..... | 822 | mania | 793 |
| Leaded glass | 475 | Letters & numbers, metal..... | 793 |
| Leaders, cattle | 582 | Levelers, road | 946 |
| Leaders, fair | 582 | Leveling instruments | 545 |
| Leadite for pipe joints..... | 582 | Leveling machines for sheets..... | 645 |
| Leads, lumber | 596 | Leveling tables, saw..... | 1016 |
| Leads, sounding | 582 | Levels | 582 |
| Leaf, aluminum..... | 9 | Levels, hydrostatic | 583 |
| Leaf tobacco dryers..... | 331 | Levels, track | 583 |
| Leaf work, hammered (see | | Lever - balance garment | |
| grilles, wrought iron). | | scales | 1129 |
| Lease rods | 1125 | Lever chucks | 224 |
| Leather aprons | 11 | Lever grips, steerings | 497 |
| Leather aprons, blacksmiths' .. | 11 | Lever presses | 907 |
| Leather aprons, rawhide..... | 1117 | Lever pumps | 918 |
| Leather aprons, worsted..... | 1117 | Lever shears | 1037 |
| Leather, artificial | 582 | Lever valves | 1168 |
| Leather belting mfrs..... | 61 | Levers, brake | 88 |
| Leather belting presses, hy- | | Levers & stirrups for cotton | |
| draulic | 906 | machinery | 1131 |
| Leather boards..... | 582 | Liability insurance, em- | |
| Leather brushing machines..... | 645 | ployers' | 546 |
| Leather calculating machines..... | 645 | Library mucilage | 788 |
| Leather covered furniture..... | 459 | Library shelving & fittings, | |
| Leather cups | 299 | metallic | 583 |
| Leather cutters, fillet..... | 301 | Library & drawing board | |
| Leather cutting knives..... | 568 | mucilage | 788 |
| Leather cutting machines..... | 645 | Lids, journal box..... | 583 |
| Leather dealers' scales..... | 1020 | Life boats | 70 |
| Leather fillet | 434 | Life floats | 444 |
| Leather finishing machines..... | 645 | Life nets | 583 |
| Leather fleshing & slating | | Life preservers | 583 |
| machines | 645 | Life rafts | 583 |
| Leather friction | 582 | Life saving nets | 792 |
| Leather glazing machines..... | 645 | Lift bridge builders | 109 |
| Leather handles | 501 | Lift pumps (force & lift)..... | 917 |
| Leather, hydraulic | 582 | Lift & force pumps | 917 |
| Leather, hydraulic & valve..... | 582 | Lifters, stove lid | 583 |
| Leather lace | 570 | Lifting jacks | 562 |
| Leather machinery, artificial..... | 645 | Lifting magnets | 744 |
| Leather measuring machines..... | 645 | Lifting rod cleaners | 1125 |
| Leather mechanical goods..... | 582 | Lifts, acid | 583 |
| Leather packing | 801 | Lifts, air (see lifts, pneu- | |
| Leather picker | 1127 | matic). | |
| Leather polishing | 582 | Lifts, ash | 583 |
| Leather presses | 907 | Lifts, book | 583 |
| Leather pressure rolls | 955 | Lifts, book, electric | 83 |
| Leather punching machines..... | 645 | Lifts, hydraulic | 583 |
| Leather roller..... | 1128 | Lifts, magnetic (see mag- | |
| Leather rolling & stoning | | nets, lifting). | |
| machines | 645 | Lifts, motor | 786 |
| Leather setting and stoning- | | Lifts, motor armature | 583 |
| out machines | 645 | Lifts, motor, car pit | 583 |
| Leather shaving machines..... | 645 | Lifts, pneumatic | 583 |
| Leather splitting knives..... | 568 | Lifts, sash | 1003 |
| Leather splitting machines..... | 645 | Lifts, sewer | 1033 |
| Leather staking machines..... | 645 | Lifts, skylight | 1048 |
| Leather stamping machines..... | 645 | Lifts, transom | 1149 |
| Leather stuffing apparatus..... | 582 | Lifts, water | 583 |
| Leather valve cups..... | 1162 | Light house builders | 583 |
| Leather valves | 1168 | Light rails | 934 |
| | | Light shades & reflectors, | |
| | | electric | 1034 |
| | | Light shifter, electric | 351 |
| | | Light & power switchboards..... | 1100 |
| | | Lighters, cigar | 225 |
| | | Lighting apparatus, car | 182 |
| | | Lighting apparatus, car, | |
| | | Bliss system | 182 |
| | | Lighting indicators | 543 |
| | | Lighting, prism system (see | |
| | | glass, prismatic). | |
| | | Lighting sets, electric | 351 |
| | | Lighting, street | 1096 |
| | | Lighting system tanks | 1108 |
| | | Lighting systems | 583 |
| | | Lighting & power machinery, | |
| | | gas | 640 |
| | | Lightning arrestors | 36 |
| | | Lightning conductors | 584 |
| | | Lightning indicator | 584 |
| | | Lightning rod points | 900 |
| | | Lightning rod testing appar- | |
| | | atus | 584 |
| | | Lightning rods | 584 |
| | | Lightning rods, copper cable..... | 584 |
| | | Lights, car signal | 1045 |
| | | Lights, prismatic | 909 |
| | | Ligni-Salvor, wood preserver..... | 584 |
| | | Lignumvitae mallets..... | 744 |
| | | Lignumvitae turnings..... | 584 |
| | | Lignumvitae, wood..... | 1209 |
| | | Lignumvitae, wood sheaves..... | 1039 |
| | | Ligonier granite | 485 |
| | | Lilas marble | 751 |
| | | Lime, acetate of | 1 |
| | | Lime burning kilns | 566 |
| | | Lime, caustic | 584 |
| | | Lime, ground & crushed | 584 |
| | | Lime, hydrated | 584 |
| | | Lime, hydrating machinery..... | 645 |
| | | Lime, hydraulic | 584 |
| | | Lime kilns, sugar refining..... | 1098 |
| | | Lime, magnesian white | 584 |
| | | Lime mfrs | 584 |
| | | Lime mixing machines | 645 |
| | | Lime packers (see cement | |
| | | packers). | |
| | | Lime rolls | 955 |
| | | Lime separators | |
| | | Lime shovels | 1044 |
| | | Lime slacking & mixing ma- | |
| | | chines | 645 |
| | | Lime spreaders | 1058 |
| | | Lime sulphate | 1099 |
| | | Limestone, French | 585 |
| | | Limestone, powdered | 586 |
| | | Limit gauges | 468 |
| | | Limit switches | 1102 |
| | | Lincoln milling machines..... | 647 |
| | | Lincrusta walton mfrs | 586 |
| | | Line, fish | 441 |
| | | Line, sash | 1003 |
| | | Linemen's belts | 62 |
| | | Linemen's carts | 193 |
| | | Linemen's climbers | 229 |
| | | Linemen's pliers | 832 |
| | | Linemen's splicing clamps..... | 227 |
| | | Linemen's tool bags | 1142 |
| | | Linemen's tools | 1145 |
| | | Linemen's, vises | 1179 |
| | | Linen hose | 540 |
| | | Lines, awning (see sash | |
| | | cords). | |
| | | Lines, chalk | 221 |
| | | Lines, deep sea sounding..... | 1056 |
| | | Lines, masons' | 752 |
| | | Lingoes, loom | 1125 |
| | | Lining bars | 50 |
| | | Lining & saddle nails | 790 |
| | | Lining & tamping bars..... | 50 |
| | | Linings, blast furnace..... | 586 |
| | | Linings, carpet | 183 |
| | | Linings, flint | 444 |
| | | Linings, flue | 445 |
| | | Linings or blocks, cupola..... | 299 |
| | | Linings, sillex, for tube mills..... | 1047 |
| | | Linings, stove | 1093 |
| | | Linings, stove, asbestos..... | 1093 |
| | | Linings, sulphate digester..... | 1099 |
| | | Link belt conveyors | 275 |
| | | Link & chain belting | 61 |
| | | Link & pin machines, car..... | 626 |
| | | Linkers & warpers, chain | 1132 |
| | | Links, chain & chain | |
| | | punched | 217 |
| | | Links, connecting | 586 |
| | | Links, coupling | 586 |
| | | Links for conveyor chains..... | 586 |
| | | Links, fusible | 586 |
| | | Links, split | 586 |
| | | Links & pins, coupling | 586 |
| | | Linooleum mfrs | 586 |
| | | Linooleum & floor cloth ma- | |
| | | chinery | 645 |
| | | Linotype knives | 568 |
| | | Linotype metals (see metals, | |
| | | electrotype, etc.). | |
| | | Linotype sawing machines, | |
| | | electro & linotype | 637 |
| | | Linseed mills | 780 |
| | | Linseed oil machinery..... | 645 |
| | | Linseed oil presses | 907 |
| | | Linseed oil & cake mills | 586 |
| | | Lintels, slate (see slate stair | |
| | | treads & risers). | |
| | | Liquefied chemicals & gases..... | 222 |
| | | Liquid boiling furnaces | 456 |
| | | Liquid cinder cars | 189 |
| | | Liquid fuel, engineers'..... | 410 |
| | | Liquid fuel regulating cocks..... | 235 |
| | | Liquid fuel regulating | |
| | | valves | 1168 |
| | | Liquid & oil weighing scales..... | 1020 |
| | | Liquid pressed forgings | 449 |
| | | Liquid soap containers..... | 1054 |
| | | Liquid & solid asphalt | 37 |
| | | Liquids, bronzing | 111 |
| | | Liquids, fireproofing | 586 |
| | | Liquor cocks | 235 |
| | | Lister & plow shares..... | 1035 |
| | | Listers & drills, combined..... | 328 |
| | | Listing jointer knives | 568 |
| | | Lithograph stone knives..... | 568 |
| | | Lithographers' blankets | 66 |
| | | Lithographers' presses | 907 |
| | | Litho metal signs | 1046 |
| | | 'Little Giant' fire extin- | |
| | | guishers | 439 |
| | | Live rolls | 955 |
| | | Lixivation plants | 586 |
| | | Loaders, box car | 586 |
| | | Loaders, grain car | 586 |
| | | Loaders, hay | 586 |
| | | Loaders, log | 586 |
| | | Loaders, rail | 586 |
| | | Loaders, wagon | 587 |
| | | Loaders, weighers & bag- | |
| | | gers, grain | 1190 |
| | | Loaders & unloaders, ballast .. | 45 |
| | | Loading hoppers | 538 |
| | | Lock bar pipe, steel | 822 |
| | | Lock boxes | 86 |
| | | Lock corner box machinery..... | 645 |
| | | Lock corner boxes | 86 |
| | | Lock corner die presses | 907 |
| | | Lock folding or edging ma- | |
| | | chines | 636 |
| | | Lock mfrs | 587 |
| | | Lock mfrs, barn door | 587 |
| | | Lock mfrs, bicycle | 587 |
| | | Lock mfrs, car & switch | 587 |
| | | Lock mfrs, clothes locker..... | 587 |
| | | Lock mfrs, dog collar | 587 |
| | | Lock mfrs, elevator door | 587 |
| | | Lock mfrs, keyless | 587 |
| | | Lock mfrs, padlock | 587 |
| | | Lock mfrs, pole | 587 |
| | | Lock mfrs, prepaid meter | 587 |
| | | Lock mfrs, safe deposit | 587 |
| | | Lock mfrs, sash (see sash | |
| | | locks). | |
| | | Lock mfrs, sash ventilating..... | 588 |
| | | Lock mfrs, slot machines..... | 588 |
| | | Lock mfrs, stall door | 588 |
| | | Lock mfrs, store door | 588 |
| | | Lock mfrs, telephone pay | |
| | | station | 588 |
| | | Lock mfrs, time | 588 |
| | | Lock mfrs, tool chest | 588 |
| | | Lock mfrs, trunk & suit | |
| | | case | 588 |
| | | Lock mortising machines (key- | |
| | | hole & lock mortising)..... | 614 |
| | | Lock-nuts | 588 |
| | | Lock-nuts, conduit | 588 |
| | | Lock seam spiral pipe | 823 |
| | | Lock sets | 1032 |
| | | Lock valves | 1168 |
| | | Lock washers | 1184 |
| | | Lock & loop stitch lacers, | |
| | | automatic | 1125 |
| | | Lockers, expanded metal..... | 588 |
| | | Lockers, mctallic | 588 |
| | | Lockers, wood | 589 |
| | | Locking device, elevator door | |
| | | (see elevator safety de- | |
| | | vices). | |
| | | Locking device, prison cell..... | 589 |
| | | Locks, elevator safety | 368 |
| | | Locks, hasp | 589 |
| | | Locks, railway switch | 1101 |
| | | Locks, sash | 1003 |
| | | Locks, sash ventilating..... | 1004 |
| | | Locks, telephone | 1114 |
| | | Locks, window, ventilating..... | 1199 |
| | | Locks & latches, sliding door..... | 589 |
| | | Locking & locking devices, | |
| | | prison cell | 589 |

| | Page | | Page | | Page |
|---|------|---|------|---|---------|
| Locomotive axles (car & locomotive) | 43 | Log setting indicators | 543 | Lubricators, gas engine..... | 594 |
| Locomotive bearings | 51 | Log skidders | 592 | Lubricators, graphite..... | 595 |
| Locomotive bell ringers | 589 | Log stamps, steel | 1065 | Lubricators, grease & oil cup. . | 595 |
| Locomotive boiler steel | 1073 | Log turners | 592 | Lubricators, locomotive..... | 595 |
| Locomotive box lubricators. . | 595 | Logging cableways | 592 | Lubricators, locomotive box. . | 595 |
| Locomotive brakes | 89 | Logging car stakes | 1064 | Lubricators, multiple oiling. . | 595 |
| Locomotive bucket cranes. . | 295 | Logging car wheels | 1193 | Lubricators, oil & grease cup | 595 |
| Locomotive cab curtains .. | 299 | Logging cars | 189 | Lubricators, oil pump..... | 596 |
| Locomotive clocks | 230 | Logging carts | 193 | Lubricators, pneumatic tool | 596-899 |
| Locomotive coal picks | 820 | Logging cones | 248 | Lubricators, sight feed..... | 596 |
| Locomotive coal station bar-rows | 49 | Logging cranes | 295 | Lubricators, steam engine.. | 596 |
| Locomotive coaling coal chutes | 233 | Logging engines | 419 | Lug hooks or timber carriers | 596 |
| Locomotive coaling stations. . | 589 | Logging locomotives | 591 | Lug straps | 1126 |
| Locomotive connecting rod boring machines..... | 622 | Logging railways (see rail-ways, industrial & port-able)..... | 1145 | Lugs, boiler | 71 |
| Locomotive connecting rod planers | 825 | Logging tools | 1145 | Lugs, hinge..... | 596 |
| Locomotive cranes | 294 | Logging trucks | 1155 | Lugs, tank | 596 |
| Locomotive cranes, electric . | 293 | Logging wagons | 1182 | Lumber, asbestos building.. | 36 |
| Locomotive cylinder cocks. . | 235 | Logging & lumberman's tools | 1145 | Lumber carts | 193 |
| Locomotive derricks | 309 | Logging & lumber trucks .. | 1155 | Lumber, creosoted (see creosoting works)..... | 315 |
| Locomotive fire box boilers .. | 72 | Logs, gas | 461 | Lumber doilies | 331 |
| Locomotive fire box steel (see plate, steel fire box). | 589 | Logs, ship | 592 | Lumber dryers | 331 |
| Locomotive fire kindler | 589 | Logwood knives | 568 | Lumber drying kilns (see kiln drying apparatus)..... | 336 |
| Locomotive frame slotting machines | 665 | Long handle lathes | 578 | Lumber edgers | 336 |
| Locomotive gauge lamps | 574 | Loom aprons | 1117 | Lumber, fire-proofing of (see fireproofing of wood work)..... | 469 |
| Locomotive guide liner | 589 | Loom attachments | 1125 | Lumber gauges | 596 |
| Locomotive headlights | 517 | Loom bolts | 81 | Lumber, kyanized | 596 |
| Locomotive injectors | 544 | Loom crank shafts | 1125 | Lumber leads | 596 |
| Locomotive jacket iron | 589 | Loom forks | 1125 | Lumber mfrs., cypress..... | 596 |
| Locomotive jacket steel sheets for painting | 589 | Loom harnesses | 1124 | Lumber mfrs. & wholesalers | 596 |
| Locomotive jacks | 562 | Loom knives | 1125 | Lumber mfrs. & wholesalers, gum | 617 |
| Locomotive lagging | 589 | Loom knives, carpet | 568 | Lumber, maple (see flooring, maple)..... | 818 |
| Locomotive lubricators | 595 | Loom lingoos | 1125 | Lumber pencils | 818 |
| Locomotive netting | 589 | Loom pickers | 1127 | Lumber piling (see ties, poles & posts)..... | 618 |
| Locomotive oil cups | 589 | Loom repairs | 1125 | Lumber, southern hardwood | 618 |
| Locomotive oilers | 797 | Loom stop motions | 1126 | Lumber stackers | 1063 |
| Locomotive rod & guide cups | 589 | Loom strapping | 1125 | Lumber stakes | 1064 |
| Locomotive paints | 813 | Loom temples | 1125 | Lumber trimmers | 1151 |
| Locomotive plows | 835 | Loom webs | 1125 | Lumber trucks | 1155 |
| Locomotive reamers | 937 | Looms | 1125 | Lumber wagons | 1182 |
| Locomotive sanders | 589 | Looms, axminster..... | 1125 | Lumbering hames (mine & lumbering) | 498 |
| Locomotive scales | 1020 | Looms, bag | 1125 | Lumbermen's hooks | 537 |
| Locomotive spring balances | 589 | Looms, broad | 1125 | Lumbermen's rules | 1000 |
| Locomotive stokers | 589 | Looms, carpet | 1125 | Lumbermen's tents | 1115 |
| Locomotive tender coal picks | 819 | Looms, cassimere | 1125 | Lumbermen's tools (logging & lumberman's) | 1145 |
| Locomotive tiles | 589 | Looms, cotton | 1125 | Lumen bronze bearings | 54 |
| Locomotive torches | 1148 | Looms, cotton duck | 1126 | Lumen bronze castings | 203 |
| Locomotive tubes (see boiler tubes)..... | 1159 | Looms, curtain | 1126 | Lumpers | 1126 |
| Locomotive turntable de- vices..... | 1168 | Looms, dress goods | 1126 | Lunch wagons | 1182 |
| Locomotive valves | 295 | Looms, embroidery | 1126 | Lustre oils | 797 |
| Locomotive water cranes.. | 589 | Looms, fancy | 1126 | "Luxeberry" wood finish .. | 618 |
| Locomotive weighting appar- atus, portable | 1213 | Looms, felting | 1126 | | |
| Locomotive & boiler front cements | 214 | Looms, gingham | 1126 | | |
| Locomotives | 589 | Looms, jacquard | 1126 | | |
| Locomotives, compressed air. . | 590 | Looms, jean | 1126 | | |
| Locomotives, contractors' .. | 590 | Looms, jute carpet | 1126 | | |
| Locomotives, dirt road | 590 | Looms, pile fabric | 1126 | | |
| Locomotives, electric | 590 | Looms, plush | 1126 | | |
| Locomotives, electric mining | 590 | Looms, ribbon..... | 1126 | | |
| Locomotives, gasoline | 590 | Looms, rug | 1126 | | |
| Locomotives, industrial & mine | 590 | Looms, silk | 1126 | | |
| Locomotives, logging | 591 | Looms, suspender | 1126 | | |
| Locomotives, miniature | 591 | Looms, uphoistery | 1126 | | |
| Locomotives, oil burning | 591 | Looms, velvet | 1126 | | |
| Locomotives, plantation | 591 | Looms, webbing | 1126 | | |
| Locomotives, pneumatic (see locomotives, compressed air). | 591 | Looms, woolen | 1126 | | |
| Locomotives rebuilt | 591 | Looms, worsted | 1126 | | |
| Locomotives, road | 591 | Loop machinery (ring & loop) 658 | | | |
| Locomotives, second hand (see railroad equipments). | 591 | Loopers | 1126 | | |
| Locomotives, traction | 591 | Loops, picker tape..... | 1127 | | |
| Locomotives & railways, miniature | 591 | Loose leaf ledgers | 582 | | |
| Lodge & church furniture .. | 458 | Loose leaf specialties..... | 592 | | |
| Loft & office building direc- tories | 313 | Loose pulley oilers..... | 797 | | |
| Loft & office building direc- tories changeable | 221 | Loose pulleys | 912 | | |
| Log calipers | 179 | Lounge feet | 592 | | |
| Log chains | 219 | Low down combination water closets | 1186 | | |
| Log conveyors | 276 | Low phosphorous melting bars | 50 | | |
| Log cutting-off machines .. | 645 | Low water alarm for boilers | 8 | | |
| Log hauls | 592 | Lubricants, automobile..... | 592 | | |
| Log hooks or timber carriers | 592 | Lubricants, commutator (see compounds, commutator). | 592 | | |
| Log jacks | 592 | Lubricants, gas engine..... | 592 | | |
| Log jacks | 562 | Lubricants, graphite..... | 592 | | |
| Log loaders | 586 | Lubricants, mica | 592 | | |
| Log rollers | 592 | Lubricants, pneumatic tool. . | 899 | | |
| | | Lubricants, soapstone for... 1054 | | | |
| | | Lubricants, wire rope (coat- ing & lubricant)..... | 1206 | | |
| | | Lubricating compounds..... | 592 | | |
| | | Lubricating oils & grease... 592 | | | |
| | | Lubricating & sizing presses, bullet | 903 | | |
| | | Lubricator shields..... | 1040 | | |
| | | Lubricators, air compressor.. 594 | | | |
| | | Lubricators, automobile..... 594 | | | |
| | | Lubricators, candle | 594 | | |
| | | Lubricators, car journal..... 594 | | | |
| | | Lubricators, electric motor.. 594 | | | |
| | | Lubricators, force feed..... 594 | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| | Page | | Page | | Page | | Page |
|---|------|---|------|---|------|---|------|
| Machinery, banding, arma- ture | 619 | Machinery, boring, hand..... | 622 | Machinery, cable covering, (wire & cable covering) 674 | | Machinery, cement weigh- ing (automatic) | 628 |
| bar drawing (rod & bar) 659 | | boring (head) | 642 | cable haulage | 625 | centering | 628 |
| bar pointing | 620 | boring (hub) | 643 | cable polishing (wire & cable polishing) | 674 | centrifugal (laboratory).. | 628 |
| barbing, wire | 672 | boring (keyhole) | 644 | cabin & armoring..... | 625 | cereal roasting (see ma- chinery, coffee roast- ing, etc.). | |
| barbing, wire nails | 673 | boring, locomotive con- necting rod | 622 | calculating | 625 | chain making | 628 |
| barking, wood | 674 | boring, portable | 622 | calendering | 625 | chain mining | 628 |
| barley | 620 | boring (shaft) | 663 | calendering, braid..... | 1118 | chain testing | 669 |
| barrel | 620 | boring wood..... | 674 | calico printers' | 1118 | chaining, yarn | 1133 |
| barrel boring | 620 | boring wood, multiple... 674 | | calipering | 625 | chair | 628 |
| barrel heating | 620 | boring wood pipe..... | 675 | can cutting | 625 | chamfering, die | 634 |
| barrel hoop | 620 | boring & drilling..... | 622 | can beading | 625 | chamfering & crozing... 628 | |
| barrel hoop driving | 620 | boring & drilling, ar- tesian well | 619 | can body forming..... | 625 | channeling (see machin- ery, stone channeling). | |
| barrel, keg, stave & heading | 620 | boring & drilling, hori- zontal | 622 | can boxing | 625 | charging, furnace | 640 |
| barrel setting-up | 620 | boring & tapping, auto- matic | 622 | can capping | 625 | charging (open hearth).. | 628 |
| barrel washing | 620 | boring & turning (pulley boring & turning) ... 656 | | can cleaning & washing. 625 | | cheese box | 628 |
| basket | 620 | bottle filling, automatic. 622 | | can filling | 625 | cheese factory..... | 628 |
| beading, can | 625 | bottlers' | 622 | can heading | 625 | chemical drying | 636 |
| beading (crimping & beading) | 634 | box board..... | 622 | can lacquering | 625 | chenille | 1119 |
| beam coping | 620 | box board matching.... 622 | | can lining | 625 | chewing gum | 628 |
| beaming (see beamers). | | box board printing..... 622 | | can makers' | 625 | chicory planting & har- vesting | 628 |
| bean & seed sorting | 620 | box board scoring..... 622 | | can polishing | 625 | chinchilla | 1119 |
| beef & bacon slicing | 620 | box cleating..... | 623 | can scoring | 625 | chipping, dye wood..... 636 | |
| beet sugar | 620 | box covering | 688 | can seating | 625 | chocolate | 629 |
| beet washing & slicing 1097 | | box dressing | 622 | can slitting | 625 | chocolate dipping | 629 |
| belt cutting | 620 | box ending | 622 | can tapping | 625 | chroming | 1119 |
| belt driven well | 672 | box hand hole cutting... 622 | | can testing | 625 | chucking | 629 |
| belt folding | 620 | box hinging | 622 | can washing (can clean- ing & washing) | 625 | chucking & turning (automatic) | 629 |
| belt lacing | 620 | box makers' | 622 | can wrapping | 625 | cider (see machinery, wine making). | |
| belt makers' | 620 | box nail feeding..... 623 | | canal digging..... | 634 | cigar | 629 |
| belt stitching | 620 | box nailing & cleating.. 623 | | canceling | 625 | cigar box..... | 629 |
| belt strapping | 620 | box stapling..... | 623 | candle | 626 | cigarette | 629 |
| belt stretching | 620 | box strapping | 623 | candy (see machinery, confectioners'). | | cigarette box | 629 |
| bench grinding (see grinders' bench). | | box trimming | 623 | candy floss..... | 626 | circle & oval..... | 629 |
| bending | 620 | brace head | 623 | candy vending (see ma- chinery, vending). | | circular folding | 629 |
| bending, coupling | 633 | bracket (insulator pin, etc.) | 644 | car-bone sugar | 1097 | circular sawing (metal).. 629 | |
| bending (hand) | 642 | braid calendering | 1118 | canners' cabbage | 625 | circular sawing (stone).. 629 | |
| bending, hydraulic | 621 | braiding | 1118 | canners' (oyster) | 650 | circular sawing (wood).. 629 | |
| bending (pipe) | 653 | braid rolling | 1118 | canners' syrup filling... 668 | | clapboard | 629 |
| bending, straightening & punching | 621 | brass sawing | 623 | canners' (tomato) | 670 | clay building block..... 629 | |
| bending (tube) | 621 | brass & copper rolling mill | 628 | canning | 626 | clay filtering | 629 |
| bending, wood | 674 | brazing, band saw..... 623 | | canning | 626 | clay grinding | 629 |
| bending & bulldozer | 624 | bread slicing | 665 | capping | 625 | clay tempering..... | 629 |
| bending & forging (forg- ing & bending)..... | 639 | breaking, hard waste... 1118 | | capping, can | 625 | clay washing | 629 |
| bending & forming (forming & bending) .. 639 | | brewers' & malsters'... 623 | | capsule | 626 | clay working (see ma- chinery, brick). | |
| beveling | 621 | brlar pipe | 623 | car boring | 626 | clock | 629 |
| beveling (punching, bev- eling, etc.)..... | 657 | brick | 623 | car box boring | 626 | closing, for friction top cans | 629 |
| blbb or faucet re-seating 638 | | brick, auger | 619 | car box grinding | 626 | closing, for steel lead kegs | 629 |
| bicycle | 621 | brick, cement | 627 | car dumping (see car dumpers). | | cloth brushing | 1119 |
| billing (see typewriters, adding & billing). | | brick cutting | 623 | car link & pin..... | 626 | cloth calendering | 1119 |
| biscuit (cracker & bis- cuit) | 633 | brick mould sanding.... 624 | | car spring colling..... 626 | | cloth cutting | 1119 |
| bit brace drilling | 636 | brick press | 624 | car wheel boring..... | 626 | cloth finishing | 1122 |
| blackening | 1117 | brick press (sand time).. 624 | | car wheel cleaning.... 626 | | cloth folding | 1119 |
| blast furnace | 621 | brick sanding | 624 | car wheel moulding.... 626 | | cloth inspecting | 1119 |
| blast hole drilling..... | 621 | brick testing | 669 | car wheel testing..... 669 | | cloth measuring | 1119 |
| bleaching | 1117 | bridge operating (see machinery, draw- bridge). | | car & carriage spring.. 626 | | cloth pressing..... | 1119 |
| blending, flour | 639 | briquetting | 624 | carbon | 626 | cloth rolling | 1119 |
| blending & sifting..... | 621 | briquetting, fuel | 640 | carbon cutting | 626 | cloth room sewing..... 1119 | |
| blind (sash, door & blind) 661 | | broaching | 624 | carbon paper | 626 | cloth stamping..... | 1119 |
| blind slat crimping | 621 | broom | 624 | carbonating | 626 | cloth stretchers | 1120 |
| blind slat sawing..... | 621 | broom corn planting... 624 | | card board sawing (wood) 626 | | cloth testing | 1131 |
| blind wiring | 621 | broom handle | 624 | card cutting..... | 626 | clothes, drying (see laundry dryers). | |
| blue printing | 69 | brush | 624 | card cutting (textile)... 1118 | | clothes pin | 629 |
| bluing | 1117 | brush boring | 624 | card grinding | 1119 | coal breaker | 629 |
| bobbin | 666 | brush nailing | 624 | card setting | 1119 | coal crushing (see crush- ers, coal). | |
| boiler head flanging (see machinery flanging). | | brushing (see machines, cloth brushing). | | card stitching, Jacquard. 1119 | | coal cutting | 629 |
| boiler makers' punching. 657 | | brushing & shearing, combined | 1129 | carpet | 1119 | coal mining | 630 |
| bolt cutting (see cutters, bolt). | | buckle | 624 | carpet cleaning | 626 | coal mining (electric)... 630 | |
| bolt heading | 621 | buckle, automatic | 624 | carpet finishing..... | 1122 | coal shearing | 630 |
| bolt pointing | 621 | buckle tongue, automatic 624 | | carpet fraying | 640 | coal washing | 630 |
| bolt threading | 621 | buckram | 1118 | carpet printing | 1119 | coal & ore handling.... 630 | |
| bolt upsetting | 621 | buckwheat | 624 | carpet rolling | 1119 | coat & hat hook, auto- matic | 631 |
| bolt & nut | 621 | buffing (see lathes, buf- fing & polishing). | | carpet sewing | 626 | coating mill | 631 |
| bolt & nut screwing.... 621 | | building block | 624 | carriage builders' | 627 | coating & varnishing... 631 | |
| bolting | 621 | building block, clay.... 629 | | carriage spring | 627 | cockle | 631 |
| bolting, saw | 621 | building block, concrete. 631 | | cartridge | 627 | cocoa | 631 |
| bookbinders' | 621 | bulldozer or bending... 624 | | carving (see machinery, wood carving). | | cocoa plantation..... | 631 |
| book covering | 621 | bundling, wood | 674 | carving, corner block... 627 | | cocoanut oil | 631 |
| book sewing | 622 | burnishing | 624 | carving, spindle | 666 | coffee hulling (rice & coffee hulling) | 658 |
| book stitching | 622 | burring | 1118 | cast iron pipe cutting... 627 | | coffee, peanut & cocoa bean roasting..... | 631 |
| boot (see machinery, shoe). | | butchers' | 624 | casting (see machinery, sand moulding). | | coffee & rice cleaning... 631 | |
| boring | 622 | butchers' saw punching. 625 | | catsup finishing | 627 | coffee & rice plantation. 631 | |
| boring, barrel | 620 | butchers' skewer..... 625 | | celluloid working | 627 | coffee & spice mill..... 631 | |
| boring, brush | 624 | butt drilling & milling. 625 | | cement | 627 | coiling, wire spring.... 673 | |
| boring, car box..... | 626 | butter dish | 625 | cement brick | 627 | coin counting | 631 |
| boring, car wheel..... | 626 | butter printing & cutting 625 | | cement moulding (see machinery, concrete building block). | | coin operating (see ma- chinery, vending). | |
| boring, connecting rod.. 632 | | button | 625 | cement post | 628 | coining | 631 |
| boring, crank | 633 | button printing & cutting 625 | | cement roofing tile..... 628 | | | |
| boring, cylinder..... | 634 | button | 625 | cement sewer pipe..... 628 | | | |
| boring, for electric wr- ing | 622 | button hole | 1118 | cement shingle | 628 | | |
| | | button sewing | 625 | cement slacking | 628 | | |
| | | cabbage (canners') | 625 | cement testing | 669 | | |

| | Page | | Page | | Page | | Page |
|--|------|--|------|---|------|--|------|
| Machinery, coke crushing (see crushers, coke). | | Machinery, cross arm (insula- tor pin, etc.) | 644 | Machinery, drilling, gang.... | 640 | Machinery, filling, bag..... | 619 |
| coke oven..... | 631 | cross cut sawing..... | 634 | drilling, horizontal..... | 636 | filling, can..... | 625 |
| cold hammering..... | 631 | cross head pin turning..... | 634 | drilling, multiple..... | 636 | filling & sewing, bag & sack..... | 619 |
| cold metal cutting-off.... | 634 | crozing & chamfering.... | 628 | drilling, pipe pressure.. | 636 | filtering, clay..... | 629 |
| cold punched nut..... | 631 | cuff (collar & cuff)..... | 631 | drilling, rivet..... | 636 | finishing..... | 639 |
| cold roll pointing, auto- matic..... | 631 | cuff, flat ribbed..... | 1121 | drilling, vise & anvil, combined..... | 619 | finishing, bandage..... | 1122 |
| cold rolling..... | 631 | cupei..... | 634 | drilling & countersinking | 636 | finishing, carpet..... | 1122 |
| cold saw (see machinery, metal sawing). | | curled hair..... | 634 | drilling & milling, butt. | 625 | finishing, cloth..... | 1122 |
| cold saw cutting-off.... | 631 | curtain pole..... | 634 | drilling & tapping..... | 636 | finishing, knit goods.... | 1122 |
| cold saw sharpening.... | 631 | curtain pole sanding & finishing..... | 634 | drilling & tapping com- bined..... | 636 | finishing, ribbon..... | 1122 |
| cold swaging..... | 631 | cutlery..... | 634 | drop carving (embossing & drop carving)..... | 638 | finishing, tape..... | 1123 |
| collar folding..... | 631 | cutlery polishing..... | 634 | dry pipe tapping..... | 669 | finishing, wool & waste. | 1123 |
| collar seam dampening.. | 631 | cutting, card..... | 1118 | drying (see dryers). | | fire boat..... | 639 |
| collar & cuff..... | 631 | cutting, corduroy..... | 1120 | drying (chemical)..... | 636 | fire proofing..... | 639 |
| comb & hair pin..... | 631 | cutting, core box..... | 633 | drying, print work..... | 1122 | fire proofing paint (com- pressed air)..... | 639 |
| compressed yeast..... | 631 | cutting, cotton cord..... | 1120 | drying, room..... | 636 | fish line..... | 639 |
| computing..... | 631 | cutting, (for fabrics).... | 634 | duck slitting..... | 636 | fishing net..... | 639 |
| concentrating (see con- centrators). | | cutting, granite column | 641 | dye wood, chipping..... | 636 | flanging..... | 639 |
| concrete brick (see ma- chinery, cement brick). | | cutting-off, metal..... | 646 | dyeing..... | 1122 | flattening & rolling, wire..... | 673 |
| concrete building block. | 631 | cutting-off, wood..... | 674 | dyeing, skein..... | 1122 | flax..... | 1123 |
| concrete fence post..... | 632 | cutting, paper..... | 651 | eave trough hanger.... | 636 | fleecing (see napping machines). | |
| condensed milk..... | 632 | cutting, rail..... | 658 | eave trough wire hang- er twisting..... | 636 | flint..... | 639 |
| conductor pipe & eave trough..... | 632 | cutting, sheet paper... | 664 | eave trough & conductor pipe..... | 632 | floor cloth (linoleum & floor cloth)..... | 645 |
| conduit pipe bending..... | 632 | cutting, stencil..... | 667 | edging or lock folding.. | 636 | floor scraping..... | 639 |
| conduit threading..... | 632 | cutting, stone..... | 667 | edging saw..... | 636 | floor surfacing..... | 639 |
| confectioners'..... | 632 | cutting, strip metal (straightening & cut- ting strip metal).... | 668 | elbow seam closing..... | 636 | flooring, wood..... | 674 |
| connecting rod boring.... | 632 | cutting, wrapper..... | 677 | electric coal mining.... | 630 | flour blending..... | 639 |
| contractors' paint spray- ing & sand blast..... | 632 | cutting & folding, rib.. | 1128 | electric massage..... | 636 | flour mill..... | 639 |
| conveying (elevating & conveying)..... | 637 | cutting & folding, under- wear..... | 1123 | electric power & lighting | 351 | flower pot..... | 639 |
| cooperage (see machinery barrel). | | cutting & punching.... | 634 | electric welding..... | 637 | flue cleaning..... | 639 |
| cop tube..... | 1120 | cylinder boring..... | 634 | electric wire making.... | 637 | flue welding..... | 639 |
| coping..... | 632 | cylinder boring, auto- mobile..... | 619 | electrical porcelain.... | 637 | fluting, wood..... | 674 |
| coping beam..... | 620 | cylinder facing..... | 634 | electro brazing..... | 637 | fluting & plating..... | 639 |
| copper converting..... | 632 | cylinder & fourdrinier, paper..... | 640 | electro dental..... | 637 | fly inserting..... | 639 |
| copper working..... | 632 | dado..... | 634 | electro plating..... | 637 | fly papering..... | 639 |
| cord wood sawing (see machinery, kindling wood). | | damp proofing paint, compressed air..... | 634 | electro & linotype saw- ing..... | 637 | folding, belt..... | 620 |
| cordage..... | 632 | dampening..... | 1121 | electrotype..... | 637 | folding, cloth..... | 1123 |
| corduroy cutting..... | 1120 | dampening, collar seam | 631 | electrotype trimming.... | 637 | folding (paper)..... | 639 |
| core box cutting..... | 633 | dating..... | 634 | elevating & conveying.. | 637 | folding & cutting, band. | 1117 |
| core making..... | 633 | dealers (new & second hand)..... | 677 | elliptic spring..... | 637 | folding & cutting, under- wear..... | 1123 |
| core tapering..... | 633 | dental, electro..... | 637 | embossing..... | 637 | folding & measuring.... | 1123 |
| cork..... | 633 | die, chamfering..... | 634 | embossing, name plate.. | 649 | foot punching..... | 639 |
| cork cutting..... | 633 | die plate hammering... | 634 | embossing & drop carv- ing..... | 638 | foot & hand power, wood working..... | 676 |
| cork (preservers)..... | 633 | die sinking..... | 634 | embroidering..... | 638 | forging..... | 639 |
| cork sticking..... | 633 | die sinking & milling combined..... | 634 | embroidery..... | 1122 | forging, hydraulic..... | 639 |
| corking (bench & upright) | 633 | die slotting..... | 634 | emery grinding..... | 638 | forging, sheet work.... | 639 |
| corking, wooden..... | 675 | digging..... | 634 | enameled cloth..... | 638 | forging & bending..... | 639 |
| corn cutting..... | 633 | digging (canal)..... | 634 | engine cleaning waste.. | 1132 | forging & upsetting.... | 671 |
| corn mill..... | 633 | dipping, chocolate..... | 629 | engraving..... | 638 | fork (spoon & fork).... | 666 |
| corn mixing..... | 633 | disc grinding (see grind- ers, disc). | | engraving, print works.. | 1122 | forming, can body..... | 625 |
| corn oil..... | 633 | disc making..... | 634 | envelope..... | 638 | forming, hydraulic..... | 639 |
| corn silking..... | 633 | disc notching..... | 634 | envelope sealing..... | 638 | forming (needle)..... | 649 |
| corn splitting..... | 633 | disc sanding..... | 634 | excavating..... | 638 | forming (pan)..... | 650 |
| corner block carving.... | 627 | dish, butter..... | 625 | excavating for drainage ditches..... | 638 | forming (sheet metal).. | 663 |
| corner block (rosette & corner block)..... | 660 | dish, washing..... | 634 | excavating for irrigation canals..... | 638 | forming, turret..... | 670 |
| corner cutting..... | 633 | dish, wood..... | 674 | excavating, sewer & trench..... | 663 | forming, wire..... | 672 |
| corner staying..... | 633 | disinfecting..... | 634 | excavating & refilling.. | 638 | forming & bending.... | 639 |
| cornice makers'..... | 633 | disinfecting paint (com- pressed air)..... | 634 | excelsior..... | 638 | forming, turrel..... | 670 |
| corporation cock insert- ing..... | 633 | disinfecting, spraying by compressed air..... | 634 | expanding, coupling.... | 633 | forming, wire..... | 672 |
| corrugating..... | 633 | distillers'..... | 634 | eye bending or eye bolt. | 638 | forming & bending.... | 639 |
| corset..... | 633 | ditching..... | 635 | eyelet..... | 638 | founding..... | 640 |
| cotter pin..... | 633 | ditching (farm land)... | 638 | fabric cutting..... | 634 | founding moulding..... | 648 |
| cotter & keyseat drilling | 636 | ditching, railroad..... | 635 | fabric pin ticket..... | 1122 | fourdrinier & cylinder, paper..... | 640 |
| cotton..... | 1120 | ditching, tile..... | 669 | face grinding (see grind- ers). | | fraying, carpet..... | 640 |
| cotton batting..... | 1120 | ditching, traction..... | 635 | facing, cylinder..... | 634 | freight handling (see conveyors, freight). | |
| cotton cord cutting..... | 1120 | door (sash, door & blind) | 661 | facing, three-way..... | 638 | freight unloading, port- able..... | 671 |
| cotton felting..... | 1122 | double seaming..... | 635 | family knitting..... | 1125 | friction shaping..... | 663 |
| cotton ginning..... | 633 | dough mixing & knead- ing..... | 635 | farm land ditching.... | 638 | fruit cleaning & break- ing..... | 640 |
| cotton waste..... | 1132 | dovetailing..... | 635 | farming, tobacco..... | 670 | fruit grading & packing | 640 |
| cottonseed oil..... | 633 | dowel..... | 635 | faucet or bibb re-seating | 638 | fruit package stapling.. | 640 |
| countersinking & drilling | 636 | dowel door..... | 635 | feather dusting..... | 638 | fruit wrapping & wrap- per printing..... | 640 |
| counting machines..... | 633 | dowel (rod pin & dowel) | 659 | feather washing..... | 638 | fruit & merchandise wrapping..... | 677 |
| coupling bending..... | 633 | dowel down..... | 636 | feeding, box nail..... | 623 | fuel briquetting..... | 640 |
| coupling expanding..... | 633 | drafting..... | 636 | felice (see machinery, carriage). | | fuel (peat)..... | 652 |
| coupling rolling..... | 633 | draw tile..... | 636 | felloe (see machinery, carriage). | | fur dressing..... | 640 |
| coupling tapping..... | 633 | draining ditch..... | 638 | felloe planing..... | 638 | furnace charging..... | 640 |
| crabbing..... | 1120 | draw bar testing..... | 669 | felt..... | 1122 | furnace pipe seaming.. | 640 |
| cracker & biscuit..... | 633 | drawbridge..... | 636 | felting, cotton..... | 1122 | furniture nail..... | 640 |
| crank boring..... | 633 | drawer fitting..... | 636 | fence..... | 638 | gadder or drilling (stone) | 667 |
| crank pin turning..... | 633 | dredging..... | 636 | fence post, concrete.... | 632 | gaining..... | 640 |
| crate..... | 633 | dredging, gold..... | 641 | fence, woven wire..... | 677 | galvanizing..... | 640 |
| crate slat cutting..... | 633 | dredging, hydraulic.... | 636 | fertilizer..... | 638 | galvanizing, wire..... | 672 |
| crayon moulding..... | 633 | dressing, box..... | 622 | fbre..... | 638 | gang drilling..... | 640 |
| creamery..... | 633 | drilling..... | 636 | fbre cleaning..... | 638 | gang sawing (stone).... | 667 |
| creasing..... | 634 | drilling, bit brace..... | 636 | fbre, wood..... | 674 | gang sawing (wood).... | 674 |
| crimping (blind slat)... | 621 | drilling (blast hole drill- ing)..... | 621 | field coil winding..... | 638 | garbage disposal..... | 640 |
| crimping, for tops on tooth powder boxes.. | 634 | drilling (boring & drill- ing, horizontal)..... | 622 | file..... | 638 | garnett..... | 1123 |
| crochet, red blanket..... | 1121 | drilling, cotter & keyseat | 636 | file room..... | 638 | garnett & card com- bined..... | 1123 |
| crocheting..... | 1121 | | | fling..... | 638 | gas..... | 640 |
| | | | | fling, band saw..... | 619 | gas, acetylene..... | 640 |
| | | | | fling (gin saw, etc.)... | 641 | gas, gasoline..... | 640 |
| | | | | | | gas (naphtha gas)..... | 640 |

| | Page | | Page | | Page | | Page |
|---|------|---|------|---|------|---|------|
| Machinery, gas power & lighting | 640 | Machinery, hoisting..... | 642 | Machinery, lead pipe & trap..... | 645 | Machinery, milling..... | 646 |
| gas pumping | 640 | hollow building block | 642 | leather, artificial | 645 | milling, bench | 647 |
| gas works | 640 | hollow chisel mortising..... | 642 | leather brushing | 645 | milling, double head..... | 647 |
| gasoline pumping | 657 | hook bending | 642 | leather calculating | 645 | milling, drilling & tapping, radiator loop..... | 647 |
| gassing | 1123 | hook & eye | 642 | leather cutting | 645 | milling, hand | 647 |
| gate hook, automatic..... | 640 | hoop | 642 | leather finishing | 645 | milling Lincoln..... | 647 |
| gear cutting | 640 | hoop nailing | 642 | leather fleshing & slating..... | 645 | milling, nut | 649 |
| gear testing | 641 | hop packing | 642 | leather glazing | 645 | milling, plain column type | 647 |
| gelatine coating | 641 | horizontal boring & drilling | 622 | leather measuring | 645 | milling, planer type..... | 647 |
| gin saw filing | 641 | horizontal drilling | 636 | leather punching | 645 | milling, universal | 647 |
| ginning, cotton | 633 | horizontal tapping | 669 | leather rolling & stoning..... | 645 | milling, valve | 647 |
| glass beveling | 641 | horn working | 642 | leather setting & stoning out | 645 | milling, valve seat..... | 671 |
| glass blowing | 641 | horse clipping | 642 | leather shaving | 645 | milling, vertical spindle, column type | 647 |
| glass house | 641 | horse collar | 642 | leather splitting | 645 | milling, & die sinking, combined | 634 |
| glass polishing | 641 | horseshoe | 642 | leather staking | 645 | mine timber framing..... | 647 |
| glossing | 641 | hose, rubber mill | 643 | leather stamping | 645 | mine ventilating (see fans ventilating mine)..... | 647 |
| glove | 641 | hosiery (see textile machinery)..... | 643 | leather whitening | 645 | mining | 647 |
| glue factory | 641 | hot forge nut | 643 | leather working (hide & leather working) | 642 | mining, coal | 630 |
| glue jointing | 641 | hot pressed nut | 649 | leveling, for sheets | 645 | mining, coal, electric..... | 630 |
| glue spreading | 641 | hot rolled stock straightening & cutting, automatic | 643 | light metal punching (punching for light metal, etc.) | 657 | mining, hydraulic | 648 |
| gold dredging | 641 | hot sawing | 643 | lighting & power, gas | 640 | mining & crushing, portable | 648 |
| graduating | 641 | hub boring | 643 | lime, hydrating | 645 | mitreing | 648 |
| grain cleaning & grading | 641 | hub boxing | 643 | lime slacking & mixing | 645 | mitreing, wood | 674 |
| grain elevator & appliances | 641 | hub mortising | 643 | linoleum & floor cloth | 645 | mixing | 648 |
| grain & flour packing & weighing, automatic..... | 619 | hub, spoke & rim | 643 | linotype sawing (electro & linotype sawing) | 637 | mixing, corn | 633 |
| graining, timber | 669 | hydrating (lime)..... | 645 | linseed oil | 645 | mixing (kneading & mixing) | 644 |
| graining, wood | 674 | hydraulic | 643 | loading, gun | 641 | mixing (kneading & mixing, dough) | 635 |
| granite column cutting..... | 641 | hydraulic bending | 621 | lock corner box | 645 | mixing (mixing & slacking, lime) | 645 |
| granite polishing (see machinery, stone polishing)..... | 641 | hydraulic dredging | 636 | lock folding & edging | 636 | mixing (paste)..... | 652 |
| granite & marble polishing | 641 | hydraulic forging | 639 | lock mortising (keyhole boring & lock mortising) | 644 | mixing, rubber (grinding & mixing)..... | 660 |
| granulating | 641 | hydraulic forming | 639 | locomotive frame slotting | 665 | mixing, sand | 661 |
| grape stemmer & crushing | 641 | hydraulic punching | 657 | log cutting-off | 645 | mixing, soap | 665 |
| grating, apple | 619 | hydrostatic weighing | 643 | log hauling (see log hauls)..... | 658 | molding, folding | 648 |
| gravity, incline | 641 | ice cream | 643 | loop (ring & loop) | 658 | molding (foundry)..... | 648 |
| green pea cleaning & grading | 641 | ice cube cutting | 643 | macaroni | 645 | molding, pulley | 656 |
| grinding | 641 | ice elevating | 643 | mailing (addressing & mailing) | 619 | molding sander | 649 |
| grinding, card | 1118 | ice handling | 643 | malsters (brewers' & malsters) | 623 | monitor | 649 |
| grinding, ink | 644 | ice, portable | 643 | manhole punching, hydraulic | 657 | mortar mixing (see concrete mixers)..... | 642 |
| grinding & mixing, paint..... | 650 | ice, recording | 643 | manhole punching & shearing | 658 | mortising, hollow chisel | 642 |
| grinding & mixing, rubber | 660 | ice & refrigerating | 643 | manifold shipping | 645 | mortising, hub | 643 |
| grinding & polishing..... | 641 | incandescent lamp making | 644 | marble mosaic cutting..... | 645 | mortising, pulley | 656 |
| grommet setting | 641 | ink grinding | 644 | marble moulding & counter-sinking | 645 | mortising (routing & mortising, gang) | 660 |
| grooving | 641 | inspecting, cloth | 1119 | marble oval hole cutting..... | 645 | mortising, wood | 674 |
| grooving, tinners' | 670 | insulating | 644 | marble polishing (see machinery, stone polishing)..... | 641 | mosaic | 649 |
| grubbing | 641 | insulator pin, bracket, etc. | 644 | marble working (see machinery, stone working)..... | 641 | mosaic & tile floor polishing | 649 |
| gun barrel drilling..... | 641 | iron shop sawing..... | 664 | marble & granite polishing | 641 | moving picture | 649 |
| gun barrel reaming..... | 641 | iron working (see machinery tools)..... | 644 | marble & stone polishing | 654 | multigraph | 649 |
| gun barrel turning..... | 641 | ironing | 644 | marking | 645 | multiple drilling | 636 |
| gun loading | 641 | irrigating (see pumps, irrigating)..... | 644 | marking, neck | 1127 | multiple punching..... | 657 |
| gun powder | 641 | jewelers' | 644 | mashing | 645 | multiple spindle nut tapping | 649 |
| gun stock | 641 | jewelers' & opticians' | 644 | match | 645 | muscle testing & lifting | 649 |
| gutta percha | 641 | joggling, for ship yards..... | 644 | match box | 645 | music string (piano & music string) | 653 |
| gutter forming | 641 | jointing, band saw stove..... | 620 | matting weaving | 645 | musical string | 649 |
| gypsum | 641 | jointing (sawing & jointing) | 662 | measuring cloth | 1119 | nailing | 649 |
| hack saw | 642 | jolly, for stoneware | 644 | measuring leather | 645 | nail mill | 649 |
| hair pin (comb & hair pin) | 631 | jute | 1124 | measuring & folding | 1123 | nail pulling (see pullers, nail)..... | 649 |
| hair washing | 642 | jute, spinning | 1130 | measuring wire | 673 | name plate embossing..... | 649 |
| hammer & hatchet handle | 642 | keg (barrel, keg, etc.)..... | 620 | measuring, wire, cloth | 672 | naphtha gas | 640 |
| hand bending | 642 | key-hole boring & lock mortising | 644 | meat can stuffing | 646 | napping | 1127 |
| hand hole cutting | 642 | key seat broaching | 644 | meat slicing | 665 | neck marking | 1127 |
| hand knitting | 1125 | key seating | 644 | mercerializing | 1126 | neck-yoke | 649 |
| hand numbering | 642 | key-way | 644 | metal beading (see machinery, crimping & beading)..... | 646 | needle forming | 649 |
| hand shearing | 642 | kindling wood | 644 | metal boring | 646 | needle (sewing machine)..... | 649 |
| hand & foot power woodworking | 676 | kneading & mixing | 644 | metal boring, horizontal | 646 | netting | 649 |
| handle blank sawing | 642 | knife balancing | 644 | metal boring, vertical..... | 646 | new & second hand, contractors' | 271 |
| handle polishing | 642 | knife polishing & buffing | 644 | metal cut-off | 646 | notching | 649 |
| handle tumbling | 642 | knit goods finishing | 1122 | metal drilling (see drills)..... | 646 | notching, disc | 634 |
| handle turning (see lathes, handle turning)..... | 642 | knitting | 1124 | metal edge box | 646 | nougat cutting | 649 |
| hank winding | 1133 | knitting, balmoral | 1125 | metal forming (see forming & bending machines)..... | 646 | numbering | 649 |
| hard waste breaking | 1118 | knitting, cardigan jacket | 1125 | metal jig sawing..... | 646 | numbering, hand | 642 |
| hardware | 642 | knitting, circular | 1125 | metal power sawing..... | 646 | numbering, repeater | 1127 |
| harness | 642 | knitting, family | 1125 | metal sawing | 646 | numbering & paging..... | 649 |
| harness riveting | 642 | knitting, hand | 1125 | metal sawing, circular..... | 629 | nut blanking | 649 |
| harness sewing | 642 | knitting, hoselery | 1125 | metal sawing, hand power | 646 | nut (bolt & nut)..... | 621 |
| harvesting (see harvesters)..... | 642 | knitting, rib | 1125 | metal wheel | 646 | nut boxing | 649 |
| hatters' | 642 | knitting, seamless | 1125 | metal working (see machinery, sheet metal workers')..... | 646 | nut burring | 649 |
| haulage, cable | 625 | kraut cutting | 644 | mlk condensing | 646 | nut, cold punched..... | 631 |
| head boring | 642 | label varnishing | 644 | mlk pasteurizing | 646 | nut facng | 649 |
| heading (barrel, keg, stove & heading) | 620 | labeling | 644 | | | nut finishing | 649 |
| heading, upsetting & forging, combined) | 642 | labeling, textile | 1125 | | | nut (hot forge)..... | 643 |
| heating | 642 | laboratory | 644 | | | nut (hot pressed)..... | 649 |
| heating, barrel | 620 | laboratory centrifugal | 628 | | | nut milling | 649 |
| hide & leather working..... | 642 | lace | 1125 | | | nut screwing (bolt & nut screwing)..... | 621 |
| hinge & butt | 642 | lacquering | 644 | | | nut tapping | 649 |
| hod hoisting (see elevators, hod)..... | 642 | lag screw | 662 | | | | |
| hoe handle | 642 | lag s crew gimlet pointing | 644 | | | | |
| hoe rolling | 642 | lag screw threading..... | 644 | | | | |
| | | lamp burner shaft | 644 | | | | |
| | | lapping | 644 | | | | |
| | | last | 644 | | | | |
| | | lath mill | 644 | | | | |
| | | laundry | 644 | | | | |

| | Page | | Page | | Page | | Page |
|---|-----------|---|------------|---|------|---|------------|
| Machinery, nut tappng, mul- tiple spindle..... | 649 | Machinery, pea harvesting (see harvesters, bean & pea). | | Machinery, polishing, wood .. | 675 | Machinery, railroad cross tie. | 658 |
| oat meal | 649 | pea hulling | 652 | polishing, wood handle .. | 675 | railway track laying .. | 658 |
| oats & rice clipping.... | 649 | peach pitting | 652 | polishing & buffing, knife | 644 | rake handle | 658 |
| oil cake packing | 649 | peanut | 652 | polishing & grinding.... | 641 | rashed | 1128 |
| oil cake trimming..... | 649 | peanut roasting (coffee, peanuts, etc.). | 631 | polishing & grinding, surface | 668 | rashel | 1128 |
| oil cloth | 649 | pearl button | 652 | polishing & sanding | 661 | rattan weaving | 658 |
| oil mill | 649 | peat fuel | 652 | polka | 654 | raveling, yarn | 1128 |
| oil testing | 669 | perforating | 652 | pop corn | 654 | reaming | 658 |
| oil well (see machinery, well drilling). | | pharmaceutical | 652 | porch column boring ... | 654 | reaming & tapping, port- able | 669 |
| oil & waste saving..... | 650 | phosphate mill | 652 | portable boring | 622 | reclamation | 658 |
| opticians' (jewelers' & opticians') | 644 | photo engravers' | 652 | portable ice | 643 | reducing (see swaging machines). | |
| ore handling (coal & ore) | 630 | photo printing | 652 | portable mining & crush- ing | 648 | reeling (see reels). | |
| ore reduction | 650 | photograph | 653 | portable riveting | 659 | refrigerating (ice & re- frigerating) | 643 |
| ore washing | 650 | photograph card beveling | 653 | portable slotting | 665 | registering | 658 |
| oval (circle or oval).... | 629 | piano action | 653 | post boring | 654 | rendering | 658 |
| oval hole cutting, mar- ble | 645 | piano (textile)..... | 1127 | potato harvesting | 654 | re-sawing (see machin- ery, band sawing). | |
| overhauling & scratch- ing | 662 | piano & music string.... | 653 | pottery | 654 | re-sawing, horizontal .. | 658 |
| overseaming (see sewing machines). | | pick eye forging | 653 | powder filling & folding | 655 | re-seating | 658 |
| oxidizing | 1127 | pick & sledge handle.... | 653 | powder mill | 655 | re-seating, valve | 671 |
| oyster (canners') | 650 | picket heading & point- ing | 653 | power transmitting | 655 | rib cutting & folding ... | 1128 |
| package filling | 650 | picture frame | 653 | power transmitting, elec- tric | 655 | rib knitting | 1125 |
| package handling (dept. store) | 650 | pig iron casting..... | 653 | power transmitting, rope (machinery, rope trans- mitting) | | ribbon cutting | 943 |
| package sorting, auto- matic | 650 | pile driving | 653 | power transmitting, rope (machinery, rope trans- mitting) | | ribbon finishing | 1122 |
| packing | 650 | pill coating | 653 | power & lighting, gas .. | 640 | rice cleaning (coffee & rice cleaning) | 631 |
| packing house | 650 | pill making | 653 | pressing cloth | 1119 | rice clipping (oats & rice clipping) | 649 |
| padding | 1127 | pin (see machinery, hook & eye) | 653 | print work drying | 1122 | rice mill | 658 |
| paging (numbering & paging) | 649 | pin drilling | 653 | printing | 655 | rice & coffee hulling .. | 658 |
| pail handle | 650 | pin pointing | 653 | printing presses | 655 | rice & coffee hulling .. | 658 |
| pail (tub & pail)..... | 670 | pin sticking | 653 | printing, yarn | 1133 | rim bending | 658 |
| paint, damp proof, com- pressed air | 634 | pin ticket, fabric | 1122 | printing & punching ... | 656 | rim (hub, spoke & rim) | 643 |
| paint, disinfecting, com- pressed air | 634 | pin (toilet pin)..... | 670 | printing & winding, ro- tary | 660 | rim polishing | 658 |
| paint, fireproofing, com- pressed air | 639 | pin & dowel | 659 | profiling | 656 | ring forming (automatic) | 658 |
| paint grinding & mixing | 650 | pineapple | 653 | prospecting | 656 | ring & loop | 658 |
| paint roll | 650 | pinking & scalloping.... | 653 | pulley balancing | 656 | rip saw | 659 |
| paint spraying | 650 | pipe bending | 653 | pulley boring & turning | 656 | rivet | 659 |
| paint spraying, com- pressed air | 650 | pipe bending, conduit .. | 632 | pulley hub drilling & tapping | 656 | rivet drilling | 659 |
| paint spraying & sand blast, contractors' .. | 632 | pipe boring, wood | 675 | pulley molding | 656 | rivet heading | 659 |
| paint, waterproofing, compressed air | 671 | pipe boring & pump stock | 656 | pulley mortising | 656 | rivet spinning | 659 |
| pamphlet stitching | 650 | pipe (briar pipe) | 623 | pulley, wood | 675 | rivet, wire | 673 |
| pan forming | 650 | pipe calking | 653 | pulp making (canners') .. | 656 | rivet & loop applying .. | 659 |
| panel raising | 650 | pipe crushing & shear- ing, combined | 653 | pulp washing | 656 | rivet & stable setting .. | 659 |
| pantagraph | 650 | pipe cutting & threading | 653 | pulp & paper mill | 651 | riveting | 659 |
| paper bag | 650 | pipe expanding & flang- ing | 654 | pulverizing | 656 | riveting (fire door) ... | 659 |
| paper box | 650 | pipe jointing | 654 | pumicing, worsted | 1128 | riveting (fire door) ... | 659 |
| paper box covering..... | 650 | pipe polishing | 654 | pump stock & pipe bor- ing | 656 | riveting (fire door) ... | 659 |
| paper box cutting & gl- uing | 650 | pipe pressure drilling .. | 636 | pumping | 656 | riveting (hydraulic lift- ing) | 659 |
| paper box gumming.... | 650 | pipe seaming, furnace .. | 640 | pumping (gas) | 640 | riveting (hydraulic, port- able) | 659 |
| paper box topping | 651 | pipe socket tapping | 669 | pumping (gasoline) | 657 | riveting (portable) | 659 |
| paper can | 651 | pipe testing | 669 | pumping (horse power) .. | 657 | riveting (spoke) | 659 |
| paper clip & fastener... | 651 | pipe & trap, lead..... | 645 | pumpkin (canners') | 657 | riveting (steam) | 659 |
| paper coating | 651 | pipe & tube mill | 654 | pumpkin peeling & seed- ing | 657 | riveting wheel | 659 |
| paper covering | 651 | pipe & tube straighten- ing | 654 | punch & die grinding .. | 657 | road grading | 946 |
| paper cutting | 651 | pitching | 654 | punching, beveling & trimming | 657 | road making | 659 |
| paper folding | 651 & 639 | placer mining | 654 | punching (boilermakers') | 657 | rock drill sharpening .. | 659 |
| paper folding, automatic | 651 | plaiting & fluting..... | 1128 & 639 | punching (disc) | 657 | rod or bar drawing ... | 659 |
| paper napkin | 651 | plaster mill | 654 | punching (foot) | 639 | rod, pin & dowel | 659 |
| paper punching | 651 | plaster of paris | 654 | punching (for light met- al, paper, etc.) | 657 | rod & tube pointing ... | 659 |
| paper rewinding | 651 | plate glass | 654 | punching (gang) | 657 | roll covering | 659 & 1128 |
| paper rule forming..... | 651 | plate scarfing | 654 | punching (horizontal) .. | 657 | roll grooving | 659 |
| paper ruling | 651 | plate straightening | 654 | punching (hydraulic) .. | 657 | roll straightening & fin- ishing | 659 |
| paper scorching | 651 | plate work punching & shearing | 658 | punching (manhole) | 657 | roller covering | 1128 |
| paper slitting & rewind- ing | 651 | plow handle | 654 | punching (multiple) | 657 | rolling, braid | 1118 |
| paper tarring | 651 | pneumatic armor scal- ing | 895 | punching, paper | 651 | rolling, coupling | 633 |
| paper tube | 651 | pneumatic boring | 895 | punching (printing & punching) | 656 | rolling, hoe | 642 |
| paper tube rolling & cutting | 670 | pneumatic forging | 896 | punching, rail | 658 | rolling mill | 659 |
| paper tube winding..... | 1133 | pneumatic painting | 897 | punching, screw | 657 | rolling, screw cap | 662 |
| paper twine & cordage. | 651 | pneumatic polishing ... | 897 | punching (Stiles) | 657 | rolling, scythe | 662 |
| paper & pulp mill..... | 651 | pneumatic riveting (see pneumatic riveters). | | punching & cutting | 634 | rolling & flattening wire | 673 |
| paraffining | 652 | pneumatic stone surfac- ing | 899 | punching & cutting, com- bined | 657 | rolling & stoning, leather | 645 |
| paring, apple | 619 | pneumatic wood boring .. | 900 | punching & shearing .. | 657 | roofing | 660 |
| paste mixing | 652 | pointing (bar pointing).. | 620 | punching & shearing (com- bined) | 658 | roofing tile | 660 |
| pasteurizing | 652 | pointing (bolt pointing).. | 621 | punching & shearing, double end | 658 | roofing tile, cement ... | 628 |
| pasteurizing, milk | 646 | pointing & heading, pick- et | 653 | punching & shearing, (man- hole) | 658 | rope transmitting | 660 |
| pasting, sheet..... | 664 | pointing & threading, wood screw | 675 | punching & shearing, plate work | 658 | rope & twine (see ma- chinery, cordage). | |
| pattern makers' (see lathes, pattern makers'). | | polishing | 654 | quarrying | 658 | rosette & corner block .. | 660 |
| pattern shop sawing.... | 652 | polishing, cutlery | 634 | quartering | 658 | rotary printing & re- winding | 660 |
| pea, (canners') | 652 | polishing, glass | 641 | rack cutting | 658 | round cornering | 660 |
| pea cleaning & grading. | 641 | polishing, granite | 641 | rag | 1128 | routing | 660 |
| | | polishing, handle | 642 | rail bending & straight- ening | 658 | routing, stair | 666 |
| | | polishing, marble & stone | 654 | rail cutting | 658 | routing & mortising (gang) | 660 |
| | | polishing, mosaic & tile floor | 649 | rail ending | 658 | rubber band cutting.... | 660 |
| | | polishing, rim | 658 | rail punching | 658 | rubber cloth | 660 |
| | | polishing, screw | 662 | rail sawing | 658 | rubber grinding & mix- ing | 660 |
| | | polishing, shaft | 663 | | | rubber mill | 660 |
| | | polishing, stone | 667 | | | rubber mill, hose | 643 |
| | | polishing, wheel | 672 | | | rubber mill wrapping... | 677 |
| | | polishing, wire & cable | 674 | | | rubber strip cutting.... | 660 |
| | | | | | | rubber tire | 660 |
| | | | | | | rubber tire applying... | 660 |
| | | | | | | rubber tube making.... | 660 |
| | | | | | | rubber washing | 660 |

| | Page | | Page | | Page | | Page |
|--|------------|--|------------|---|------|--|------|
| Machinery, rubbing, wood.... | 675 | Machinery, second hand (see machinery dealers, new and second hand). | | Machinery, slot (see machinery, vending). | | Machinery, straightening & finishing, roll..... | 659 |
| ruling | 661 | seed cleaning & separating | 662 | slotting | 665 | stranding | 668 |
| ruling, paper | 651 | seed sorting (bean & seed sorting) | 620 | slotting (locomotive frame) | 665 | stranding, spool..... | 666 |
| sack filling & sewing (bag & sack)..... | 619 | seine making (see machines, netting). | | slotting (portable)..... | 665 | stranding & armoring, spool | 666 |
| saddle seat | 661 | setting, band saw..... | 620 | slotting, wood screw.... | 675 | stranding, wire..... | 673 |
| safety pin | 661 | setting, card | 1119 | slotting & shaving, wood screw | 675 | strapping | 1131 |
| salt making | 661 | sewer cleaning | 663 | slubbing | 1130 | strapping shaping..... | 663 |
| salt well | 661 | sewer pipe | 663 | smashing | 665 | strawboard lining..... | 668 |
| sample card | 1129 | sewer & trench excavating | 663 | smelting | 665 | street flushing..... | 668 |
| sand blast | 661 | sewing (harness) | 642 | smoke test..... | 665 | street railway sweeping | 668 |
| sand blast & paint spraying, contractors'. | 632 | sewing machine needle.. | 649 | snuff factory..... | 665 | street sweeping..... | 668 |
| sand brick | 661 | sewing (various kinds).. | 1033 | soap makers' | 665 | striking | 668 |
| sand conveying for continuous moulding | 661 | shade cloth cutting..... | 1034 | soap mixing | 665 | strip metal straightening & cutting | 668 |
| sand drum | 661 | shading (lithographers' & photo engravers').... | 663 | soap (toilet soap)..... | 670 | stripping | 1131 |
| sand lime brick..... | 661 | shaft boring | 663 | soaping | 1130 | stucco | 668 |
| sand mixing | 661 | shaft polishing..... | 663 | soldering | 665 | sugar | 1097 |
| sand molding (see machinery, molding foundry). | | shaft straightening..... | 663 | sole leather rolling..... | 665 | sugar cane..... | 1097 |
| sand paper making..... | 661 | shaft turning (see lathes, shaft turning). | | solid die hot rivet heading | 665 | sulphur | 1098 |
| sand papering | 661 | shaft & pole | 663 | special | 665 | suppository | 668 |
| sand sifting | 661 | shafting | 663 | spike | 666 | surface (floor)..... | 639 |
| sander (molding) | 649 | shaping | 663 | spindle carving..... | 666 | surface grinding & polishing | 668 |
| sander & boring..... | 661 | shaping for steel foundries | 663 | spinning (see frames; also mules). | | surfacing, wood..... | 675 |
| sanding | 1129 | shaping (friction) | 663 | spinning jute..... | 1130 | suspended or cane weighing | 668 |
| sanding & finishing, curtain pole | 634 | shaping (strapping) | 663 | spinning, taper tube.... | 668 | swaging | 668 |
| sanding & polishing..... | 661 | shaping (wood) | 663 | splicing | 1131 | sweeping, street..... | 668 |
| sash chain | 661 | sharpening, rock drill.. | 659 | splitting | 666 | sweeping (vacuum)..... | 668 |
| sash, door & blind..... | 661 | shaving & slotting, wood screw | 675 | spoke (hub, spoke, etc.) | 643 | syrup filling (canners'). | 668 |
| sash grooving | 661 | shearing (hand) | 642 | spool stranding..... | 666 | tablet | 668 |
| sash trimmer | 661 | shearing (punching & shearing) | 657 | spool stranding & armoring | 666 | tack | 668 |
| sausage making | 661 | shearing, sheep | 663 | spool & bobbin..... | 666 | tack separating | 668 |
| saw filing & setting.... | 661 | shearing, textile | 1129 | spooling (see spoolers). | | tag | 668 |
| saw fitting | 661 | shearing & brushing, combined | 1129 | spoon & fork..... | 666 | tag stringing | 668 |
| saw making | 661 | shearing & punching, combined | 658 | spraying | 666 | tailors' pressing | 668 |
| saw mill | 661 | shearing & punching, double end | 658 | spraying, paint..... | 650 | talking | 668 |
| saw punching, butchers' | 625 | shearing & punching, manhole | 658 | spraying, paint, compressed air..... | 650 | tan bark packing..... | 668 |
| saw setting | 662 | shearing & punching, plate work | 658 | spraying, whitewash.... | 672 | tannery | 668 |
| saw setting (saw filing & setting) | 661 | sheep shearing | 663 | spring bed | 666 | tape cutting, insulating.. | 1111 |
| saw sharpening | 662 | sheet lead rolling | 663 | spring coiling | 666 | tape finishing | 1123 |
| sawing (band sprue).... | 620 | sheet metal forming.... | 663 | spring coiling, wire.... | 673 | taper rolling | 668 |
| sawing (blind slat) | 621 | sheet metal lath | 663 | spring knotting..... | 666 | taper threading | 668 |
| sawing (brass) | 623 | sheet metal threading.. | 669 | sprinkling | 1131 | taper tube spinning..... | 668 |
| sawing (card board).... | 626 | sheet metal workers' .. | 663 | stair routing..... | 666 | taping, armature coil .. | 619 |
| sawing (cross-cut) | 634 | sheet mill | 664 | stamping (adjustable)... | 666 | tapping | 668 |
| sawing (electro & lino-type) | 637 | sheet paper cutting | 664 | stamping, cloth..... | 1119 | tapping, can | 625 |
| sawing (hot sawing).... | 643 | sheet pasting | 664 | staple | 666 | tapping (dry pipe) | 669 |
| sawing (iron, shop).... | 664 | shingle mill..... | 664 | staple setting (rivet & staple setting)..... | 659 | tapping (gas & water mains) | 669 |
| sawing (metal) | 646 | ship building | 664 | staple setting..... | 666 | tapping, horizontal | 669 |
| sawing (metal, circular). | 629 | ship yard, joggling..... | 644 | stapling | 666 | tapping, nut | 649 |
| sawing (pattern shop).. | 652 | shipping tag | 664 | starch factory..... | 666 | tapping, pipe-socket .. | 669 |
| sawing (rail) | 658 | shoddy | 1129 | static electric | 666 | tapping & boring, automatic | 622 |
| sawing (scroll) | 662 | shoe | 664 | stave jointing..... | 667 | tapping & reaming, pneumatic (see hammers, pneumatic). | |
| sawing (stone) | 667 | shoe peg | 664 | stave sawing | 667 | tapping & reaming, portable | 669 |
| sawing (stone, circular). | 629 | shop sawing, iron..... | 664 | stave & heading (barrel, keg, stave & heading). | 620 | telephone core | 669 |
| sawing (stone gang).... | 667 | shot | 664 | stay-bolt threading..... | 667 | tenoning, wheel | 672 |
| sawing (wood) | 675 | shovel | 664 | staying (automatic).... | 667 | tenoning (wood) | 675 |
| sawing & jointing..... | 662 | shovel handle | 664 | steaming | 1131 | tentering | 1131 |
| sawing & splitting, wood | 675 | shuttle | 664 | stearine | 667 | test hole drilling..... | 669 |
| scallop | 1129 | side path | 664 | stencil cutting..... | 667 | testing | 669 |
| scalloping & pinking.... | 653 | sidewalk block | 664 | stereoscopic | 667 | testing (axle, draw bar, etc.) | 669 |
| scarfing machines..... | 662 & 1129 | sifting | 664 | Stiles screw..... | 662 | testing (brick) | 669 |
| scarfing, plate | 654 | sifting (blending & sifting) | 621 | stitching, card (jack-guard) | 1119 | testing (can) | 669 |
| scouring wool..... | 1129 | sifting, sand | 661 | stock sizing | 667 | testing (car wheel).... | 669 |
| scouring yarn | 1129 | sifting (stone) | 667 | stone channeling..... | 667 | testing (cement) | 669 |
| scrapping, floor | 639 | silk | 1129 | stone channelling, electric air | 667 | testing (chain) | 669 |
| scratching & overhauling | 662 | singleing | 1129 | stone crushing (see rock & ore crushers). | | testing (cloth) | 1131 |
| screening | 662 | singletree | 664 | stone cutting..... | 667 | testing (emery) | 669 |
| screw | 662 | sizing | 664 & 1129 | stone gadder or drilling. | 667 | testing (hydraulic) | 669 |
| screw, automatic | 662 | sizing or spooling | 664 | stone gang sawing..... | 667 | testing (oil) | 669 |
| screw cap rolling..... | 662 | skein dyeing | 1122 | stone planing (see planers, stone). | | testing (pipe) | 669 |
| screw cutting | 662 | skewer | 664 | stone polishing..... | 667 | testing (power) | 669 |
| screw, double turret hand | 662 | slabbing | 664 | stone sawing..... | 667 | testing (spring) | 669 |
| screw, gimlet pointing, coach | 662 | slack barrel (see machinery, barrel, etc.). | | stone sifting..... | 667 | testing (stone) | 669 |
| screw, hand | 662 | slag & cinder..... | 665 | stone surfacing, pneumatic | 667 | testing (traction) | 669 |
| screw heading | 662 | slate | 665 | stone working..... | 667 | testing (wire) | 669 |
| screw heading, wood.... | 675 | slate dressing | 665 | stone & marble polishing | 654 | testing (yarn) | 1131 |
| screw, lag | 662 | slate drilling & countersinking | 665 | straightening, pipe & tube | 654 | textile | 1117 |
| screw polishing | 662 | slate grooving | 665 | straightening, plate.... | 654 | textile shearing | 1129 |
| screw punching | 657 | slaughter house | 665 | straightening, shaft.... | 663 | thread | 1131 |
| screw shaving | 662 | sledge & pick handle.... | 653 | straightening, wire roll & rotary..... | 673 | thread, cut off..... | 669 |
| screw shaving & slotting, wood | 675 | slicing (bread, meat, etc.) | 665 | straightening & bending, rail | 658 | thread cutting | 669 |
| screw slotting | 662 | slitting | 665 | straightening & cutting hot rolled stock, automatic | 643 | thread rolling | 669 |
| screw, Stiles | 662 | slitting & rewinding, paper | 651 | straightening & cutting, strip metal..... | 668 | thread tool grinding.... | 669 |
| screw thread rolling.... | 662 | | | straightening & cutting, wire | 673 | threading, bolt | 621 |
| screw threading & pointing, wood | 675 | | | | | threading, lag screw.... | 644 |
| scroll sawing | 662 | | | | | threading (sheet metal). | 669 |
| scythe rolling | 662 | | | | | threading, staybolt | 667 |
| seamless knitting..... | 1125 | | | | | threading & cutting, pipe | 653 |
| seat back bending..... | 662 | | | | | threading & pointing, wood screw | 675 |
| | | | | | | threshing (see threshers). | |
| | | | | | | thumbhole cutting | 669 |
| | | | | | | ticket cancelling (see machinery, cancelling) .. | |
| | | | | | | tile ditching | 669 |

| | Page | | Page | | Page | | Page |
|------------------------------|------|--------------------------------|------|-----------------------------------|------|----------------------------------|----------|
| Machinery, tile facing..... | 669 | Machinery, vending..... | 671 | Machinery, wire weaving..... | 573 | Magnesite, calcined | 744 |
| tile making | 669 | veneer cutting..... | 671 | wire winding | 674 | Magnesite, crude | 744 |
| tile sizing | 669 | veneer drying | 671 | wire & cable covering... 674 | | Magnesite fire clay..... | 436 |
| timber graining | 669 | vermicelli | 671 | wire & cable polishing... 674 | | Magnesite & chrome co- | |
| timber preserving | 669 | vinegar | 671 | wood band sawing (see | | ments | 214 |
| tin foil..... | 669 | voting | 671 | band sawing machines). | | Magnet cores (armature & | |
| tin plate laquering & | | wagon builders' (see ma- | | wood barking..... | 674 | magnet) | 279 |
| varnishing | 669 | chinery, carriage | | wood bending..... | 674 | Magnet hammers | 499 |
| tin plate mill (& con- | | builders'). | | wood boring..... | 674 | Magnet trucks | 1155 |
| struction) | 669 | wall paper..... | 671 | wood boring, multiple... 674 | | Magnet winders | 1197 |
| tanners, (see machinery, | | warp tying..... | 1132 | wood boring (pneumatic) 900 | | Magnet wire | 1205 |
| sheet metal workers'). | | washer cutting..... | 671 | wood bundling..... | 674 | Magnetic accelerators | 1 |
| tanners' grooving | 670 | washer making..... | 671 | wood carving..... | 674 | Magnetic brake & electric | |
| tinning | 670 | washing | 1185 | wood cutting off..... | 674 | car heating apparatus | 88 |
| tipping | 670 | washing barrel..... | 620 | wood dish..... | 674 | Magnetic chucks | 224 |
| tire applying..... | 670 | washing, rubber..... | 660 | wood embossing (see ma- | | Magnetic clutches | 233 |
| tire bolting..... | 670 | washing (textile)..... | 1132 | chinery, embossing). | | Magnetic friction brakes.... | 89 |
| tire drilling..... | 670 | waste, cotton..... | 1132 | wood fibre | 674 | Magnetic re-set circuit break- | |
| tire trueing..... | 670 | waste, engine cleaning.1132 | | wood flooring..... | 674 | ers | 90 |
| tire welding..... | 670 | waste product, for pack- | | wood fluting..... | 674 | Magnetic separators | 1031 |
| tobacco | 670 | ing houses..... | 671 | wood gang sawing..... | 674 | Magnetic solenoids | 1056 |
| tobacco cutting..... | 670 | waste saving (oil & waste | | wood graining..... | 674 | Magnetic switches | 1102 |
| tobacco farming..... | 670 | saving) | 650 | wood handles, felloe, | | Magnetos, sparking (see ig- | |
| tobacco hoeing..... | 670 | watch case | 671 | etc., polishing..... | 675 | nitors). | |
| tobacco knife grinding.. 670 | | water proofing paint | | wood mitreing..... | 674 | Magnetos, telephone | 744 |
| toilet paper..... | 670 | (compressed air) | 671 | wood mortising..... | 674 | Magnetos, testing | 744 |
| toilet pin..... | 670 | wax working | 671 | wood moulding..... | 674 | Magnets | 744 |
| toilet soap..... | 670 | weaving (see looms). | | wood paneling..... | 675 | Magnets, electro | 744 |
| tomato (canners')..... | 670 | weighing (automatic) ... 619 | | wood pipe boring..... | 675 | Magnets, electro (special | |
| tomato transplanting... 670 | | weighing (for filled cans) 671 | | wood polishing..... | 675 | winding of) | 365 |
| tool grinding (see grind- | | weighing (hydrostatic)... 643 | | wood polishing for | | Magnets, lifting..... | 744 |
| ers, plain tool). | | weighing, packing & | | handles, felloe, etc... 675 | | Magnets, solenoid | 744 |
| tow mill..... | 670 | bagging (automatic)... 672 | | wood printing (see ma- | | Mail bag elevators & con- | |
| towing | 670 | well (belt driven) | 672 | chinery, box board | | veyors | 374 |
| trace trimming..... | 670 | well drilling | 672 | printing). | | Mail boxes | 86 & 744 |
| traveling bed planing... 670 | | well drilling (adamantine | | wood pulley..... | 675 | Mail catchers | 206 |
| trench (sewer & trench | | coring) | 672 | wood ring & valve | | Mail catchers, railway.... | 744 |
| excavating) | 663 | well drilling (rotary box- | | handle | 675 | Mail chutes for buildings... 744 | |
| trimming, box..... | 623 | ing) | 672 | wood rubbing | 675 | Mail cranes | 295 |
| trimming (punching, | | well, salt | 661 | wood sawing | 675 | Mail delivery apparatus.... 744 | |
| beveling & trimming). 657 | | welt machines | 1132 | wood sawing & splitting 675 | | Mailing boxes, metal..... | 744 |
| trimming, wood | 675 | wet, paper mill | 672 | wood screw | 675 | Mailing boxes & cases, sam- | |
| tripping | 670 | wheel | 672 | wood screw heading.... 675 | | ple | 744 |
| trolley wheel..... | 670 | wheel automobile | 619 | wood screw shaving & | | Mailing cases for liquids... 744 | |
| trunk | 670 | wheel facing..... | 672 | slotting | 675 | Mailing tubes, etc..... | 1156 |
| trunk slat staining or | | wheel (metal wheel)... 646 | | wood screw slotting.... 675 | | Mailing & addressing..... | 2 |
| varnishing | 670 | wheel polishing | 672 | wood screw threading & | | Mailing & addressing ma- | |
| tub & pail..... | 670 | wheel rim turning..... | 672 | pointing | 675 | chines | 619 |
| tube cutting..... | 670 | wheel riveting | 659 | wood shaping (shaping, | | Mails, brass & steel..... | 1126 |
| tube filling..... | 670 | wheel tenoning | 672 | wood) | 663 | Malleable annealing furnaces 456 | |
| tube mill (pipe & tube | | wheel thread sanding... 672 | | wood surfacing | 675 | Malleable foundry plants... 744 | |
| mill) | 654 | whip makers' | 672 | wood tenoning | 675 | Malleable furnaces | 456 |
| tube pointing (rod & | | whisk broom..... | 672 | wood trimming | 675 | Malleable iron blocks..... | 67 |
| tube pointing) | 659 | white lead | 672 | wood twisting | 675 | Malleable iron flanges (cast | |
| tube reducing..... | 670 | whitewash spraying 672 | | wooden corking | 675 | & malleable) | 443 |
| tube rolling..... | 670 | whiting (for picture | | woodenware | 675 | Malleable iron founders.... 450 | |
| tube rolling & cutting | | frames) | 672 | woodworking | 676 | Malleable iron washers.... 1184 | |
| (paper) | 670 | whiting works | 672 | woodworking, hand & | | Malleable melting furnaces.. 456 | |
| tube straightening (pipe | | willowing, wool | 1132 | foot power | 676 | Mallets, calking | 744 |
| & tube straightening). 654 | | winding, armature coil.. 619 | | wool burring | 1133 | Mallets, lignumvitæ | 744 |
| tube tapering..... | 670 | winding ball | 1117 | wool scouring | 1129 | Mallets, rawhide | 744 |
| turning & chucking, au- | | winding cloth | 1133 | wool willowing..... | 1132 | Mallets, rubber | 745 |
| tomatic | 629 | winding, hank | 1133 | wool & worsted finish- | | Mallets, wooden | 745 |
| turntable | 670 | winding, field coil..... 638 | | ing | 1123 | Malt dryers (grain & malt). 330 | |
| turret forming..... | 670 | winding, paper tube.... 1133 | | woolen & worsted..... | 1133 | Malt kiln floors..... | 745 |
| twine balling..... | 1132 | winding, textile | 1133 | worsted pumicing | 1128 | Malt & ice house builders... 745 | |
| twine making (see ma- | | winding, wire | 674 | worsted & woolen..... | 1133 | Maltsters' & brewers' ma- | |
| chinery, cordage). | | window frame | 672 | woven wire fence..... | 677 | chines & supplies..... | 623 |
| tying, warp..... | 1132 | wine making | 672 | woven wire mattress... 677 | | Mandrel extractors | 428 |
| type setting & type dis- | | wiping & packing waste. | | wrapper cutting | 677 | Mandrel presses (see presses, | |
| tributing | 670 | wire | 673 | wrapping (fruit & mer- | | arbor). | |
| underwear folding & | | wire barbing | 672 | chandise) | 677 | Mandrels | 745 |
| cutting | 1123 | wire cloth measuring... 672 | | wrapping (rubber mill).. 677 | | Mandrels, expanding | 745 |
| universal grinding (see | | wire cloth weaving..... 672 | | wrench | 677 | Mandrels, hardened & ground 745 | |
| grinders, universal). | | wire covering (wire & | | wringing | 1133 | Mandrels or cones, black- | |
| universal milling..... | 647 | cable covering) | 674 | yarn chaining | 1133 | smiths' | 745 |
| unloading, freight, port- | | wire crimping | 672 | yarn printing | 1133 | Mandrels, saw | 745 |
| able | 671 | wire drawing | 672 | yarn raveling | 1128 | Mandrels, taper | 745 |
| upsetting axle..... | 619 | wire forming | 672 | yarn scouring | 1129 | Manganese | 745 |
| upsetting (bolt upset- | | wire galvanizing | 672 | yarn testing | 1131 | Manganese alloys | 9 |
| ting) | 621 | wire handle | 672 | yeast, compressed..... 631 | | Manganese bronze castings.. 203 | |
| upsetting & forging..... 671 | | wire hinging..... | 672 | yoke, neck | 649 | Manganese bronze ingots, | |
| upsetting & welding | | wire insulating | 673 | Machines (see machinery). | | "Parson's" | 544 |
| axle | 619 | wire making, electric... 637 | | Machinists' clamps..... | 227 | Manganese bronze forgings.. 449 | |
| valve inserting..... | 671 | wire mattress | 673 | Machinists' fine tools.... 681 | | Manganese bronze, "Par- | |
| valve milling..... | 647 | wire measuring | 673 | Machinists' hammers | 499 | sons" | 745 |
| valve re-seating..... | 671 | wire nail | 673 | Machinists' hand lamps... 573 | | Manganese copper | 745 |
| valve seat milling..... 671 | | wire nail barbing | 673 | Machinists' hand taps.... 1112 | | Manganese metal | 745 |
| valve seat planing..... 671 | | wire nail cleaning..... 673 | | Machinists' rules | 1000 | Manganese ore | 798 |
| valve wheel..... | 671 | wire pointing | 673 | Machinists' squares..... | 1062 | Manganese steel | 1073 |
| vanning | 671 | wire rivet | 673 | Machinists' tongs | 1141 | Manganese steel castings... 203 | |
| variety moulding..... | 671 | wire rolling or flattening 673 | | Machinists' tools & supplies, 743 | | Mangles, ironing (see laun- | |
| variety sawing..... | 671 | wire rope making..... | 673 | dealers | | dry machinery). | |
| varnish makers'..... | 671 | wire spooling | 673 | Machinists' vises | 1180 | Manheads, yokes, etc., | |
| varnishing | 671 | wire spring | 673 | Machinists' & engineers' 1212 | | pressed steel | 745 |
| varnishing (coating & | | wire spring coiling..... 673 | | wrenches | | Manhole covers | 745 |
| varnishing) | 631 | wire stapling | 673 | Machinists & founders.... 681 | | Manhole plates (see man- | |
| varnishing (for rubber | | wire stitching | 673 | Magnesia brick manufactur- | | heads, yokes, etc., pressed | |
| mills) | 671 | wire straightening (roll | | ers | 106 | steel). | |
| varnishing (label var- | | & rotary) | 673 | Magnesia cements | 214 | Manhole, punching & shear- | |
| nishing) | 644 | wire straightening & cut- | | Magnesia pipe & boiler cov- | | ing machines | 658 |
| varnishing (tin plate | | ting | 673 | erings | 824 | Manhole steps, sewer..... | 1033 |
| lacquering, etc.)..... 669 | | wire stranding | 673 | Magnesian white lime..... 584 | | Manhole & pile sinking | |
| vegetable cutting..... | 671 | wire testing..... | 669 | Magnesite brick mfrs..... 106 | | pumps | 918 |
| | | wire twisting | 673 | | | Manifests, railroad | 929 |
| | | | | | | Manifold shipping machines. 645 | |

| | Page | | Page | | Page | | Page |
|--|------|--|------------|---|------|---|------------|
| Manifolds, cast, wrought, etc. | 746 | Marble, Skyros | 752 | Matting weaving machines.. | 645 | Messenger boxes (express messenger) | 84 |
| Manilla rope sheaves..... | 1039 | Marble statuary | 752 | Mattocks | 766 | Messenger clamps | 227 |
| Manilla switch rope..... | 999 | Marble, Styra, Clippolino.... | 752 | Mattocks, asphalt | 766 | Messenger hangers | 503 |
| Manilla transmission rope... | 999 | Marble table tops..... | 1147 | Mattress machinery, wire... | 673 | Metal alloys, white..... | 9 |
| Manilla & sisal rope mfrs... | 999 | Marble, Tinos | 752 | Mattress machinery, woven wire | 677 | Metal, asbestos protected.... | 36 |
| Mannheimer Portland cement importers | 211 | Marble turning lathes (see lathes, stone)..... | | Mauls, coal | 766 | Metal automobile bodies.... | 70 |
| Manson protecting tape..... | 1111 | Marble, wholesale | 752 | Mauls, post | 766 | Metal, babbitt..... | 43 |
| Mantel, grate & tile dealers. | 746 | Marble work, plumbers'.... | 892 | Mauls, railroad or spike.... | 767 | Metal band sawing machines. | 620 |
| Mantel stock (see slate mill stock). | | Marble work spring hinges.. | 530 | Mauls, rawhide | 767 | Metal beading machines (see crimping & beading machines). | |
| Mantels, artificial marble.... | 749 | Marble workers' tools (see tools granite & stone cutters). | | Mauls, ship or top)..... | 767 | Metal bearings, bronze..... | 53 |
| Mantels, brick | 749 | Marble 'working machinery (see stone working machinery, etc.). | | Mauls, woodchoppers' | 767 | Metal beating machines..... | 646 |
| Mantels, faience | 749 | Marble & granite drills..... | 325 | Mauls, wooden | 767 | Metal beds for railroads.... | 55 |
| Mantels (grates, fenders & mantels) | 491 | Marbleized glass ceilings.... | 207 | Mausoleum doors & gates.... | 767 | Metal boring machines..... | 646 |
| Mantels, iron, electro bronze plated | 749 | Marbleized iron mantels.... | 749 | Mausoleum slate | 1052 | Metal boring machines, horizontal | 646 |
| Mantels, marble (see marble interior work). | | Marbleized slate mantels.... | 749 | Maze glass for the diffusion of light | 476 | Metal boring machines, vertical | 646 |
| Mantels, marbleized iron.... | 749 | Marbles, playing | 752 | Meal, bone | 83 | Metal bridging for joist & studding | 768 |
| Mantels, marbleized slate.... | 749 | Marine castings | 203 | Meal, granite | 485 | Metal caps, for glassware.... | 181 |
| Mantels, mosaic | 749 | Marine chains (cable & marine) | 217 | Meal dryers | 331 | Metal casings | 194 |
| Mantels, onyx | 749 | Marine clocks | 231 | Meal polishing | 767 | Metal castings, Britannia.... | 199 |
| Mantels, slate | 749 | Marine engines, alco-vapor.. | 419 | Meal pressure indicators.... | 543 | Metal castings, Franklin.... | 201 |
| Mantels, terra cotta (see terra cotta, architectural). | | Marine engines, gasolene.... | 419 | Measuring bar clamps..... | 227 | Metal castings, gun..... | 203 |
| Mantels, wood | 749 | Marine engines, steam..... | 420 | Measuring buckets, asphalt. | 112 | Metal castings, veeder..... | 206 |
| Mantles, incandescent gas.... | 750 | Marine glasses | 64 | Measuring instruments, electrical (testing & measuring) | 545 | Metal castings, white..... | 206 |
| Manual training benches.... | 62 | Marine hardware | 507 | Measuring machines (folding & measuring) | 1123 | Metal coatings..... | 768 |
| Manual training lathes..... | 578 | Marine oil lamps..... | 574 | Measuring machines, cloth.. | 1119 | Metal, compressed | 768 |
| Manure hooks | 537 | Marine paints | 813 | Measuring machines, leather | 645 | Metal corner beads (see plasterers' steel corner beads). | |
| Manure spreaders | 1058 | Marine pumps (see pumps, steam). | | Measuring machines, wire.... | 673 | Metal covered elevator doors | 367 |
| Map tubes | 1156 | Marine railway builders.... | 752 | Measuring machines, wire cloth | 673 | Metal covered entrance doors | 319 |
| Maple flooring | 444 | Marine railway chains..... | 219 | Measuring machines, wire cloth | 673 | Metal covered interior finish | 547 |
| Maple sugar & syrup makers' supplies | 750 | Marine railway engines..... | 420 | Measuring pumps | 918 | Metal cutting-off machines.. | 646 |
| Marble, alabaster | 750 | Marine railways (dry docks & marine railways)..... | 329 | Measuring reels | 1128 | Metal dealers (see tin, plate, metals, etc.). | |
| Marble altars | 750 | Marine reversing gears..... | 472 | Measuring rods | 948 | Metal doors, fire proof..... | 319 |
| Marble, Antique Fonce & Verdatre | 750 | Marine steering gears, hand & steam | 472 | Measuring spoons | 1058 | Metal drilling machines (see drilling machines). | |
| Marble, Argos | 750 | Marine steering wheels..... | 1194 | Measuring tapes | 1111 | Metal edge box machines.... | 646 |
| Marble, artificial | 750 | Marine varnishes | 1174 | Measuring wheels, dial..... | 1193 | Metal edge paper boxes.... | 86 |
| Marble, Benon Jaune, Marie Blanche, Vert & Jaspe.... | 750 | Markers, center | 752 | Measuring & folding machines | 1123 | Metal fan blades..... | 65 |
| Marble, black | 750 | Markers, clap-board | 752 | Measuring & skeneing reels. | 1128 | Metal fittings, acid..... | 441 |
| Marble, Breche Rose & Vert | 750 | Markers, cut | 1121 | Meat can stuffing machines.. | 646 | Metal forming machines (see wire forming machine). | |
| Marble, Carrara | 750 | Market wire | 1205 | Meat choppers | 224 | Metal grommets..... | 497 |
| Marble, Citron | 750 | Marking brushes | 112 | Meat hooks | 537 | Metal handle wrenches..... | 1213 |
| Marble, colored (foreign).... | 750 | Marking chalk, red..... | 221 | Meat slicer knives..... | 568 | Metal hangers | 503 |
| Marble columns, artificial.... | 750 | Marking gauges | 469 | Meat slicing machines..... | 665 | Metal igniter point..... | 768 |
| Marble cutters' bit knives.... | 568 | Marking machines | 645 | Mechanical boshes | 84 | Metal importers & exporters | 768 |
| Marble cutters' tools & supplies (see tools, granite & stonecutters'). | | Marking machines, neck.... | 1127 | Mechanical draft | 767 | Metal jig sawing machines.. | 646 |
| Marble dust mfrs..... | 750 | Marking pots | 902 | Mechanical draftsmen | 321 | Metal, lath..... | 576 |
| Marble electric work (see marble interior work). | | Marks, stock | 1079 | Mechanical dust collectors.... | 334 | Metal lath (expanded)..... | 576 |
| Marble enamel paints..... | 813 | Marlin woven hose..... | 540 | Mechanical engineers (civil, mechanical & mining)..... | 379 | Metal lockers (expanded).... | 588 |
| Marble exterior work..... | 750 | Marmor Lt. marble..... | 751 | Mechanical filters | 1098 | Metal mailing boxes..... | 744 |
| Marble flour | 750 | Marques | 752 | Mechanical indicators for elevators | 767 | Metal manganese | 745 |
| Marble, Graf green..... | 750 | Mash tubs | 1158 | Mechanical leather goods.... | 582 | Metal mixers | 782 |
| Marble, Greek | 750 | Mashing, potato | 752 | Mechanical parts | 767 | Metal monel | 768 |
| Marble, green | 750 | Mashing machines | 645 | Mechanical rubber mfrs.... | 1000 | Metal novelties & specialties | 768 |
| Marble, Griotte | 750 | Mason reels | 938 | Mechanical schools (see engineering schools & colleges). | | Metal numbers & letters.... | 793 |
| Marble, imperial | 751 | Masonry, bridge | 109 | Mechanical shooting galleries | 1043 | Metal parts for loose leaf devices | 768 |
| Marble importers | 751 | Masonry contractors, heavy. | 269 | Mechanical spread controllers. | 273 | Metal polish | 768 |
| Marble importers (Italian)... | 751 | Masons & builders..... | 752 | Mechanical stokers | 767 | Metal power sawing machines | 646 |
| Marble importers, white.... | 751 | Masons' hammers | 499 | Mechanical ventilating apparatus | 1177 | Metal roofing tile..... | 998 |
| Marble interior work..... | 751 | Masons' jointers | 564 | Mechanics' aprons | 11 | Metal sash & mouldings.... | 769 |
| Marble, Italian white..... | 751 | Masons' leads (see plumb bob mfrs). | | Megaphone mfrs..... | 768 | Metal sawing machines.... | 646 |
| Marble, Karystos | 751 | Masons' lines | 752 | Meler's non-staining cements | 214 | Metal sawing machines, circular | 620 |
| Marble, Lilas | 751 | Masons' stoves | 1095 | Melters, babbitt metal..... | 44 | Metal sawing machines, hand power | 646 |
| Marble, Mani | 751 | Masons' trestles | 1151 | Melting bars, low phosphorous | 50 | Metal saws, circular..... | 1018 |
| Marble mantels (see marble interior work). | | Masons' & builders' materials | 753 | Melting furnaces | 456 | Metal shades (glass & metal) | 1034 |
| Marble mantels, artificial... 749 | | Massage machines, electric.. | 636 | Melting furnaces, malleable. | 456 | Metal shapes, pressed..... | 1035 |
| Marble, Marmor Lt..... | 751 | Mast arms, arc lamp, etc.... | 766 | Melting furnaces (rolling & smelting) | 457 | Metal shear blades..... | 66 |
| Marble mosaic cutting machines | 645 | Mast hoops | 537 | Melting furnaces, steel.... | 458 | Metal shear knives..... | 568 |
| Marble mosaics | 783 | Mastic asphalt | 37 | Melting kettles | 565 | Metal sheaves, pressed.... | 1039 |
| Marble moulding & counter-sinking machines | 645 | Mastic pots | 902 | Melting ladles | 571 | Metal signs | 769 & 1046 |
| Marble, Mycenian | 751 | Mastic roofing | 993 | Melting pots | 902 | Metal signs, engraved..... | 1046 |
| Marble, Negella, Aima..... | 751 | Masts, booms & derrick spars | 309 | Memorial tablets (see bronze tablets). | | Metal slitting cutters..... | 302 |
| Marble, Noir, antique..... | 751 | Masts & spars..... | 766 | Memorial windows | 768 | Metal slitting saws..... | 1018 |
| Marble, Norwegian white.... | 751 | Match box machinery..... | 645 | Memorials, outdoor | 799 | Metal spinning | 1058 |
| Marble oval hole cutting machines | 645 | Match machinery | 645 | Menders, hose | 540 | Metal statuary (sheet metal) | 1039 |
| Marble, Paros | 751 | Matcher knives | 568 | Mending plates | 831 | Metal studs | 1097 |
| Marble, Pentelli white..... | 751 | Matchers | 766 | Mercurizing machines | 1126 | Metal sun dials..... | 1099 |
| Marble, plumbers' (see plumbers' marble work). | | Matchers & planers..... | 826 | Merchandise carriers | 184 | Metal surfacer | 769 |
| Marble polishing machines.. | 654 | Materials, building, for export | 766 | Merchandise wrapping machines | 677 | Metal tanks | 1108 |
| Marble polishing supplies.... | 901 | Materials (materials are indexed under the headings descriptive of their kinds). | | Mercurial heat generators.... | 768 | Metal tile, enameled..... | 1137 |
| Marble, Porta Santa..... | 751 | Mats, stove..... | 766 & 1094 | Mercury | 768 | Metal tile, interlocking.... | 1137 |
| Marble producers | 751 | Mats, street car..... | 766 | Mercury arc rectifiers..... | 938 | Metal, tungsten | 769 |
| Marble, Rose, vif..... | 752 | Mats, switchboard | 766 | Mercury gauges | 469 | Metal wheel machinery.... | 646 |
| Marble, royal Irish green.... | 752 | Mats, wire table | 766 | Mercury vapor lamps..... | 574 | Metal wheel steel..... | 1073 |
| Marble sawing machines (see stone sawing machines). | | Mats, wood rolling..... | 766 | Merry-go-rounds (see carousels, etc.). | | Metal wheels | 1194 |
| Marble, serpentine | 752 | Mats & matting, cocoa.... | 766 | | | Metal, white | 1197 |
| | | Mats & matting, rattan, etc. | 766 | | | Metal work, art..... | 36 |
| | | Mats & matting, rubber.... | 766 | | | Metal workers' crayons & pencils | 296 |
| | | Mats & matting, steel.... | 766 | | | | |
| | | Mats & matting, steel wire. | 766 | | | | |
| | | Mattes & bullion copper ores | 278 | | | | |
| | | Matting, electric floor.... | 766 | | | | |
| | | Matting, grass | 766 | | | | |

| Page | | Page | | Page | | Page | |
|------|---|------|--|------|---|------|---|
| | Metal working machinery (see sheet metal workers' machinery). | | Mill board & asbestos paper mfrs. | | Mills, feed grinding..... | | Mining engineers (civil, mechanical & mining) |
| 825 | Metal working planers..... | 36 | Mill boxes..... | 779 | Mills, felt | 379 | Mining engines |
| 1215 | Metal, yellow or muntz..... | 1118 | Mill brushes | 431 | Mills, for enamel..... | 420 | Mining ladles |
| 769 | Metaline | 175 | Mill builders, cotton..... | 779 | Mills, for grinding chemicals | 571 | Mining machine bits |
| 769 | Metallic arsenic | 445 | Mill builders, flour..... | 1123 | Mills, fulling | 65 | Mining machine gears |
| 46 | Metallic bank & office fixtures | 1118 | Mill cans | 779 | Mills, gold & silver..... | 472 | Mining machine picks |
| 63 | Metallic berths & bunks..... | 224 | Mill chucks, boring & turning | 779 | Mills, grinding | 820 | Mining machine racks |
| 1118 | Metallic breasts | 770 | Mill cogs | 780 | Mills, hollow | 1044 | Mining machine shovels |
| 178 | Metallic cabinet work..... | 276 | Mill conveyors, rolling..... | 780 | Mills, Huntington | 647 | Mining machinery |
| | Metallic cabinets & filing cases (see filing cabinets & devices). | 296 | Mill crays | 1124 | Mills, indigo | 630 | Mining machinery, coal |
| 36 | Metallic cloth, asbestos..... | 315 | Mill dogs, saw..... | 780 | Mills, ink | 630 | Mining machinery, coal, electric |
| | Metallic desks (see bank & office fixtures, metallic). | 410 | Mill engineers | 780 | Mills, lath & picket..... | 648 | Mining machinery, hydraulic |
| 1129 | Metallic drawing rolls..... | 472 | Mill gears | 780 | Mills, linseed mixing (see mortar mixers). | 628 | Mining machines, chain..... |
| 459 | Metallic furniture | 495 | Mill grinders, silica or chilian | 780 | Mills, mustard | 787 | Mining motors, electric |
| 1074 | Metallic furniture, steel sheets for | 539 | Mill hose | 780 | Mills, nut grinding..... | 793 | Mining nozzles, hydraulic..... |
| 576 | Metallic lath fasteners..... | 495 | Mill pick grinders..... | 780 | Mills, oil cake..... | 820 | Mining picks |
| | Metallic library shelving & fittings | 820 | Mill picks | 777 | Mills, pebble | 919 | Mining pumps |
| 588 | Metallic lockers | 213 | Mill repair parts, cement..... | 824 | Mills, pipe & tube..... | 1024 | Mining screens |
| 46 | Metallic office & bank fixtures | 1020 | Mill scales | 780 | Mills, plate rolling..... | 1048 | Mining skips |
| 804 | Metallic packing | 1022 | Mill scalpels, corn..... | 780 | Mills, prospecting | 1145 | Mining tools |
| 819 | Metallic phosphoro | 1126 | Mill soaps | 780 | Mills, pug | | Mining & crushing machinery, portable |
| | Metallic roofing tile (see shingles, metallic). | 1052 | Mill stock slate..... | 780 | Mills, quartz | 648 | Mirror frames, brass |
| | Metallic roofing tile, Spanish shapes | 770 | Mill supplies (mill & factory) | 780 | Mills, rice | 1034 | Mirror lined shades |
| 998 | Metallic sash bars | 273 | Mill table controllers..... | 780 | Mills, roller grinding..... | 1034 | Mirror shades & reflectors |
| 769 | Metallic settings | 1132 | Mill trucks | 951 | Mills, roller, iron & steel..... | 781 | Mirrors, bath room |
| 1034 | Metallic shades & reflectors..... | 1155 | Mill trucks, rolling..... | 780 | Mills, rosin | 781 | Mirrors, plate glass |
| 1040 | Metallic shingles | 1156 | Mill trucks, wire..... | 780 | Mills, sand | 781 | Mirrors, shock |
| 320 | Metallic, solid doors..... | | Mill ventilation (see ventilating apparatus). | 780 | Mills, saw (see lumber mfrs.). | 86 | Mitre boxes |
| 1157 | Metallic tubing, flexible..... | 770 | Mill white, Rice's..... | 1057 | Mills, shell end..... | 568 | Mitre knives |
| 1184 | Metallic washers | 1126 | Mill wire goods..... | 780 | Mills, slabbing | 781 | Mitre scale |
| | Metallic washers for boiler-makers | | Mill work, builders (see woodwork, architectural). | 780 | Mills, spice | 1062 | Mitre & try squares |
| | Metallic window frame & sash | 770 | Mill & factory supplies..... | 781 | Mills, stamp | 648 | Mitreing machines |
| 10 | Metals, anti-friction | 36 | Mill & paper board mfrs., asbestos | 781 | Mills, stave tumbling..... | 674 | Mitreing machines, wood |
| 43 | Metals, babbitt | 1097 | Milled iron studs..... | 781 | Mills, sugar cane | 36 | Mitts & gloves, asbestos |
| 783 | Metals, monnot | 777 | Milling attachments | 1132 | Mills, sugar | 813 | Mixed paints for export |
| | Metals, old (see scrap iron & steel). | 302 | Milling cutters | 1132 | Mills, tube | | Mixer & screen combined, sand |
| 818 | Metals, perforated | 301 | Milling cutters, face..... | 781 | Mills, tumbling | 37 | Mixers, asphalt |
| 769 | Metals, rare | 647 | Milling, drilling & tapping machines, radiator loop..... | 781 | Mills, turning (boring & turning, vertical) | 781 | Mixers, bread |
| 942 | Metals, reinforcing | 11 | Milling machine arbors..... | 781 | Mills, warping | 782 | Mixers, cement |
| 1138 | Metals, tin plate, etc..... | 37 | Milling machine attachments | 781 | Mills, warping, sectional..... | 782 | Mixers, clay |
| 86 | Meter boxes | 225 | Milling machine chucks..... | 576 | Mills, water polishing..... | 244 | Mixers, concrete |
| 310 | Meter dials | 296 | Milling machine cranks..... | 38 | Mills, wire flattening..... | 245 | Mixers, concrete, for export |
| 769 | Meter provers | 1145 | Milling machine tools..... | 576 | Mills & bolters, lath..... | 782 | Mixers, fertilizer |
| 1145 | Meter sealing tools | 1180 | Milling machine vises..... | 576 | Mills, tube | 782 | Mixers, foundry sand |
| 769 | Meter seals | 646 | Milling machines | 576 | Mills, tumbling | 782 | Mixers, gas |
| 769 | Meter varnish | 647 | Milling machines, bench..... | 189 | Mills, turning (boring & turning, vertical) | 782 | Mixers, metal |
| 769 | Meters, acetylene | 647 | Milling machines, double head | 218 | Mills, turning (boring & turning, vertical) | 782 | Mixers, mortar |
| 769 | Meters, air | 647 | Milling machines, hand..... | 320 | Mills, turning (boring & turning, vertical) | 782 | Mixers, paint, power..... |
| 769 | Meters, differential | 647 | Milling machines, Lincoln..... | 325 | Mills, turning (boring & turning, vertical) | 782 | Mixers, plaster |
| 769 | Meters, distance recording..... | 649 | Milling machines, nut..... | 429 | Mills, turning (boring & turning, vertical) | 1097 | Mixers, sausage meat |
| 769 | Meters, electric..... | 647 | Milling machines, plain column type | 1117 | Mills, turning (boring & turning, vertical) | 633 | Mixers, sugar |
| 769 | Meters, fluid | 647 | Milling machines, planer type | 534 | Mills, turning (boring & turning, vertical) | | Mixing machines, corn |
| 769 | Meters, fuel gas..... | 647 | Milling machines, universal..... | 574 | Mills, turning (boring & turning, vertical) | | Mixing machines (kneading & mixing) |
| 769 | Meters, gas | 647 | Milling machines, valve..... | 590 | Mills, turning (boring & turning, vertical) | 644 | Mixing machines, lime |
| 769 | Meters, grade indicating..... | 647 | Milling machines, vertical spindle, column type..... | 919 | Mills, turning (boring & turning, vertical) | 652 | Mixing machines, paste |
| 769 | Meters, oil | 634 | Milling machines, combined | 325 | Mills, turning (boring & turning, vertical) | | Mixing machines (rubber grinding & mixing) |
| 769 | Meters, pocket | 777 | Mills, adjustable hollow..... | 50 | Mills, turning (boring & turning, vertical) | 1128 | Mixing pickers |
| 769 | Meters, prepaid gas | 777 | Mills, attrition | 1103 | Mills, turning (boring & turning, vertical) | 51 | Mixing plants, batch |
| 769 | Meters, speed indicating..... | 777 | Mills, ball & pebble..... | 469 | Mills, turning (boring & turning, vertical) | 902 | Mixing pots |
| 770 | Meters, steam | 777 | Mills, bark | 543 | Mills, turning (boring & turning, vertical) | 1108 | Mixing tanks |
| 770 | Meters, velocity | 777 | Mills, billet | | Mills, turning (boring & turning, vertical) | | Mixing & kneading machines, dough |
| 770 | Meters, water | 777 | Mills, bone & shell..... | | Mills, turning (boring & turning, vertical) | 635 | Modelers & sculptors, architectural |
| | Meters & instruments, electrical testing | 777 | Mills, boring & turning..... | | Mills, turning (boring & turning, vertical) | 782 | Modeling clays |
| 469 | Metric gauges | 777 | Mills, boring & turning, horizontal | | Mills, turning (boring & turning, vertical) | 228 | Modeling composition "plastillina" |
| 1001 | Metric rules, steel..... | 777 | Mills, boring & turning, vertical | | Mills, turning (boring & turning, vertical) | 782 | Models, trade marks & monograms, wood |
| 770 | Mica | 777 | Mills, buhr stone..... | | Mills, turning (boring & turning, vertical) | 782 | Models & experimental work |
| 222 | Mica chimneys | 777 | Mills, car wheel boring..... | | Mills, turning (boring & turning, vertical) | 817 | Models & patterns |
| 770 | Mica, ground | 778 | Mills, chaser | | Mills, turning (boring & turning, vertical) | 411 | Modernizing engineers |
| | Mica insulators (see insulators). | 778 | Mills, chillan | | Mills, turning (boring & turning, vertical) | 1126 | Moistening apparatus, air |
| 592 | Mica lubricants | 778 | Mills, chlorination | | Mills, turning (boring & turning, vertical) | 941 | Moisture regulators..... |
| 770 | Mica, schist | 778 | Mills, cider & cider presses..... | | Mills, turning (boring & turning, vertical) | 430 | Molasses faucets |
| 469 | Micrometer gauges | 778 | Mills, cinder | | Mills, turning (boring & turning, vertical) | 466 | Molasses gates..... |
| 770 | Micrometers | 778 | Mills, cocoa | | Mills, turning (boring & turning, vertical) | 1108 | Molasses tanks |
| 770 | Microscopes | 778 | Mills, coffee or spice..... | | Mills, turning (boring & turning, vertical) | 331 | Mold dryers |
| 1119 | Middle card | 778 | Mills, concentrating (see mills, stamp). | | Mills, turning (boring & turning, vertical) | 56 | Molders' bellows |
| 798 | Military band organs..... | 778 | Mills, concrete mixing (see concrete mixers). | | Mills, turning (boring & turning, vertical) | 444 | Molders' flasks |
| 84 | Milk bottle fillers..... | 778 | Mills, continuous (see rolling mill plants, continuous). | | Mills, turning (boring & turning, vertical) | 1145 | Molders' tools |
| 1184 | Milk can washers..... | 778 | Mills, corn oil..... | | Mills, turning (boring & turning, vertical) | | Molders' towels (see tools, molders'). |
| 180 | Milk cans | 778 | Mills, corn & cob..... | | Mills, turning (boring & turning, vertical) | | Molding (see also "moulding"). |
| 646 | Milk condensing machinery..... | 778 | Mills, cotter | | Mills, turning (boring & turning, vertical) | 626 | Molding machines, car wheel |
| 184 | Milk jar carriers | 778 | Mills, cyanide | | Mills, turning (boring & turning, vertical) | 648 | Molding machines, foundry |
| 817 | Milk pasteurizers | 778 | Mills, drug | | Mills, turning (boring & turning, vertical) | 656 | Molding machines, pulley |
| 846 | Milk pasteurizing machinery..... | 778 | Mills, emery rock..... | | Mills, turning (boring & turning, vertical) | 1002 | Molding sand |
| 770 | Milk shakers | 778 | Mills, end | | Mills, turning (boring & turning, vertical) | 649 | Molding sander machines |
| 805 | Milk strainer pails..... | 778 | Mills, exhaust tumbling..... | | Mills, turning (boring & turning, vertical) | 1002 | Molding sanders |
| 1147 | Milk & beer bottle tops..... | 778 | Mills, fanning | | Mills, turning (boring & turning, vertical) | | Molds, babbitt metal & solder |
| | Mill architects (see engineers, mill). | | | | Mills, turning (boring & turning, vertical) | 782 | Molds, bar lead, buck shot, & bullet |
| 51 | Mill baskets | | | | Mills, turning (boring & turning, vertical) | 782 | Molds, brick |

| | Page | | Page | | Page | | Page |
|-------------------------------|-----------|---------------------------------|------|--------------------------------|------|--------------------------------|------|
| Molds, capsule | 782 | Motor boat, launch & yacht | | Mouldings & sash, metal... | 769 | Nails, carpet..... | 789 |
| Molds, cement | 213 | bulldozers | 785 | Mouldings & tubing, special | | Nails, casing | 789 |
| Molds, copper | 782 | Motor boat signals..... | 1045 | shapes | 1158 | Nails, cement coated wire.. | 789 |
| Molds, cylinder | 782 | Motor boat tanks..... | 1108 | Moulds (see molds). | | Nails, clinch | 789 |
| Molds, glass house | 782 | Motor boat & automobile | | Mountings, automobile..... | 788 | Nails, cigar box..... | 789 |
| Molds, gold & silver bullion | 782 | whistles | 1196 | Mountings, bag | 44 | Nails, clout | 789 |
| Molds, ingot | 782 | Motor brushes (dynamo & | | Mouse & rat traps..... | 1150 | Nails, clutch | 789 |
| Molds, lead casting | 783 | motor) | 111 | Mouthpieces, telephone | 1114 | Nails, copper & brass..... | 789 |
| Molds, lead hammer | 783 | Motor car trade names..... | 40 | Movable hardware bins..... | 505 | Nails, corrugated | 789 |
| Molds, plumbers' tack | 1104 | Motor cars, gasoline, electric | 190 | Movable & stationary | | Nails, cut | 789 |
| Molds, rubber | 783 | Motor cars, inspection..... | 190 | benches | 62 | Nails, finishing | 789 |
| Molds, rubber tire | 783 | Motor chain compounds..... | 241 | Movers or pushers, car..... | 182 | Nails, foundry | 789 |
| Molds, solder | 783 | Motor cloth | 785 | Movers, prime | 909 | Nails, galvanized | 790 |
| Molds, tack | 783 | Motor compressor governors.. | 484 | Moving picture machines.... | 649 | Nails, gilt | 790 |
| Mole traps | 1150 | Motor controllers | 785 | Moving stairways..... | 1064 | Nails, hand picked | 790 |
| Molybdenum | 783 | Motor controllers, electric.... | 272 | Mower knife grinders..... | 1045 | Nails, horse | 790 |
| Monel metal | 768 | Motor controllers, railway.... | 273 | Mower knife sharpeners.... | 1036 | Nails, hoop | 790 |
| Moncy drawers (cash or | | Motor cycles | 785 | Mower sharpeners, lawn.... | 1036 | Nails, paper mache..... | 790 |
| money) | 194 | Motor drives | 328 | Mower sickles | 1045 | Nails, picture | 790 |
| Monitor lathes | 578 | Motor fans, water..... | 429 | Mower & reaper guards.... | 497 | Nails, roofing | 790 |
| Monitor machines | 649 | Motor hoods | 535 | Mower & reaper knives (see | | Nails, roofing & slating.... | 790 |
| Monnot metals | 783 | Motor oil gauges (dynamo & | | knives, mower & reaper). | | Nails, saddle & lining.... | 790 |
| Monograms, models & trade | | motor oil) | 468 | Mowers, lawn | 581 | Nails, screw head..... | 790 |
| marks, wood | 782 | Motor inspection cars..... | 190 | Mowers & reapers | 788 | Nails, shingle | 790 |
| Monumental granite | 485 | Motor lamps (see lamps, | | Mowing machine rollers.... | 797 | Nails, shoe | 790 |
| Monumental lead (wedge & | | automobile, gas & oil). | | Mucilage, drawing board & | | Nails, slating & roofing.... | 790 |
| monumental) | 582 | Motor lifts | 786 | library | 788 | Nails, small | 790 |
| Monumental workers & deal- | | Motor lifts, car-pit..... | 583 | Muck bar iron..... | 555 | Nails, special | 790 |
| ers, granite & marble | 490 | Motor starters (see rheostats). | | Mud drums (steam or mud). | 328 | Nails, stay | 790 |
| Monuments & statuary, | | Motor switches, reversing.... | 1102 | Mud guards, automobile (see | | Nails, tobacco | 790 |
| bronze | 110 | Motor tire valves..... | 1169 | fenders & guards, auto- | | Nails, trunk | 790 |
| Monuments & statuary, white | | Motor & dynamo mfrs.... | 334 | mobile). | | Nails, upholsterers' | 791 |
| bronze | 1066 | Motors, air | 786 | Mud separators | 1031 | Nails, wire | 791 |
| Mooring buoys | 176 | Motors, automobile | 786 | Mud valves | 1169 | Nails, zinc | 1215 |
| Mooring cleats | 229 | Motors, battery | 786 | Mud wash-out taps..... | 1112 | Name plate embossing ma- | |
| Mooring hooks (boat & moor- | | Motors, buffing | 786 | Muff boxes | 86 | chine | 649 |
| ing) | 536 | Motors, crane, pneumatic.... | 896 | Muffle furnace fronts..... | 788 | Name plate washers..... | 1184 |
| Mooring posts | 902 | Motors, dental | 786 | Muffle tanks | 1108 | Name plates | 791 |
| Mop sticks & holders..... | 783 | Motors, direct current rail- | | Muffler furnaces, enameling. | 455 | Name plates, automobile.... | 791 |
| Mop wringers | 1215 | way | 786 | Muffler valves | 1169 | Name plates, cement side- | |
| Mop yarns | 1215 | Motors, electric | 786 | Muffler & tank parts, auto- | | walk | 791 |
| Mops, cotton | 783 | Motors, electric crane..... | 786 | mobile | 42 | Name plates, machinery.... | 792 |
| Mops, roofing | 783 | Motors, electric elevator.... | 786 | Mufflers & tanks, automobile | 42 | Name plates, telephone.... | 792 |
| Mops, spring | 783 | Motors, electric fan..... | 786 | Mufflers, automobile | 788 | Naphtha engines | 420 |
| Moravian tile | 1137 | Motors, electric, for flexible | | Mufflers, pop valve..... | 789 | Naphtha gas | 792 |
| Morse taper drills..... | 325 | shaft | 787 | Muffles, assay | 37 | Naphtha gas machines.... | 640 |
| Morse taper reamers | 937 | Motors, electric mining..... | 787 | Muffles, enameling | 789 | Naphtha motors | 787 |
| Morse taper sockets | 1055 | Motors, electric, organ blow- | | Muffling & charcoal sinking | | Naphtha refiners | 792 |
| Mortar barrows | 49 | ing | 787 | furnaces | 456 | Napping hammers | 499 |
| Mortar color mfrs. | 783 | Motors, electric railway (see | | Muffling & charcoal sinking | | Napping machines | 1127 |
| Mortar fire | 439 | generators, street railway). | | Mule attachments | 1126 | Natural gas burners..... | 177 |
| Mortar hods | 531 | Motors, electric, single phase | | Mule parts | 1126 | Natural gas fuel burners.. | 177 |
| Mortar, machine mixed | 783 | railway | 787 | Mule pulley stands..... | 1066 | Nautical instruments | 545 |
| Mortar mixers | 782 | Motors, electric toy, etc.... | 787 | Mule shoes | 1042 | Naval architects | 34 |
| Mortar, patent soapstone .. | 783 | Motors for automatic pianos, | | Mules, cotton | 1126 | Navy scales (army & navy).1019 | |
| Mortar, prepared | 783 | etc. | 787 | Mules, self-acting | 1127 | Neck bolts | 82 |
| Mortars, crushing | 783 | Motors, gasoline farm..... | 787 | Mules, woolen | 1127 | Neck marking machines.... | 1127 |
| Mortised tiles | 1137 | Motors, gasoline turntable.. | 787 | Mules, worsted | 1127 | Neck yoke bands..... | 792 |
| Mortisers, chain saw..... | 217 & 783 | Motors, induction | 787 | Multigraph machines..... | 649 | Neck yoke machinery..... | 649 |
| Mortisers, sash pulley | 1004 | Motors, naphtha | 787 | Multigraph ribbons | 789 | Neck yoke & singletree lathes | 578 |
| Mortising chisels, hollow .. | 223 | Motors, organ | 787 | Multiple boring machines, | | Neck yokes | 792 |
| Mortising machines, hollow | | Motors, organ blowing, elec- | | wood | 674 | Needle forming machinery.. | 649 |
| chisel | 642 | tric | 787 | Multiple drilling machines.. | 636 | Needle machinery, sewing | |
| Mortising machines, hub | 643 | Motors, pneumatic..... | 897 | Multiple effects evaporators. | 1098 | machine | 649 |
| Mortising machines, pulley.. | 656 | Motors, pneumatic crane.... | 896 | Multiple oilers | 797 | Needle mfrs. | 792 |
| Mortising machines (routing | | Motors, self-starting, vari- | | Multiple oiling lubricators.. | 595 | Needle valves | 1169 |
| & mortising, gang) | 660 | able speed | 787 | Multiple punching machines | 657 | Needle & shower baths.... | 52 |
| Mortising machines, wood .. | 674 | Motors, single phase electric | | Multiple punching presses.. | 907 | Needles, comb | 1127 |
| Mosaic ceramic floor tile .. | 1137 | Motors, turntable | 787 | Multiple spindle drills..... | 325 | Needles, crochet machine.... | 1127 |
| Mosaic cube importers | 783 | Motors, valve | 787 | Multiple nut tapping | | Needles, knitting machine.. | 1127 |
| Mosaic glass work | 476 | Motors, water | 787 | machines | 649 | Needles, latch | 1127 |
| Mosaic machinery | 649 | Mottled brick mfrs. | 106 | Multiple typewriters..... | 1161 | Needles, miners' | 781 |
| Mosaic mantels | 749 | Moulded rubber goods..... | 1000 | Multiple steel flooring, fire | | Needles, phonograph (see | |
| Mosaic wood floors | 1209 | Moulders' shovels | 1044 | proofing | 441 | talking machine needles). | |
| Mosaic & tile floor polishing | | Moulding (see also "mold- | | Multi-stage high lift centrif- | | Needles, pyrographic | 926 |
| machines | 649 | ing") | | ugals | 789 | Needles, sewing machine.... | 1127 |
| Mosaics, ceramic | 783 | Moulding cutters | 302 | Muntz or yellow metal..... | 1215 | Needles, spring knitting.... | 1127 |
| Mosaics, glass | 783 | Moulding hooks | 537 | Mural decorators & painters | 308 | Needles, talking machine.. | 1104 |
| Mosaics, marble | 783 | Moulding knives, dividers for | | Muriatic acid | 1 | Needles & scrapers, miners' | 781 |
| Mosaics, Roman & Venetian | | Moulding machine knives.... | 568 | Muscle testing & lifting ma- | | Negalla, Alma marble.... | 751 |
| Mosaics, | 784 | Moulding machinery, crayon | 633 | chines | 649 | Nernst lamps | 574 |
| Moscrop continuous speed | | Moulding machines, wood.. | 674 | Music string machinery (pi- | | Net rings | 944 |
| recorders | 938 | Moulding or foundry sand.... | 1002 | ano & music string)..... | 653 | Nets, fish | 441 |
| Mosquito netting | 792 | Moulding sander machines.. | 649 | Music wire (piano or music). | 1205 | Nets, fly | 446 |
| Moss | 784 | Moulding & countersinking | | Musical string machinery.. | 649 | Nets, life | 583 |
| Moss, Irish | 784 | machines, marble..... | 645 | Muslin signs | 1046 | Nets, life saving..... | 792 |
| Moss, peat | 785 | Mouldings, carved | 787 | Mustard mills | 780 | Nets & seines, fish..... | 441 |
| Moss, sea | 785 | Mouldings, composition (see | | Muzzles, horse & ox..... | 789 | Netting, locomotive | 589 |
| Moss, tree | 785 | ornaments, composition). | | Mycenian marble | 751 | Netting machines | 649 |
| Moth destroyer, vacuum sys- | | Mouldings, copper, brass & | | Mycop's cloth expanders.... | 1119 | Netting, mosquito | 792 |
| tem | 785 | bronze | 787 | Nail barbing machines, wire | 673 | Netting, wire poultry..... | 1205 |
| Motions, bobbin stop..... | 1126 | Mouldings, cypress | 787 | Nail cleaning machines, wire | 673 | Neutralizer, electric | 792 |
| Motions, doffer comb..... | 1126 | Mouldings, electric wiring.. | 788 | Nail grips | 497 | Never slip snow plow | |
| Motions, drawing frame | | Mouldings, electrical wood.. | 788 | Nail hammers (tack & nail) | 500 | wheels | 1194 |
| stop | 1126 | Mouldings, elevator, orna- | | Nail keg trucks..... | 1155 | Nickel alloys | 8 |
| Motions, evener | 1126 | mental steel | 368 | Nail machines, furniture.... | 640 | Nickel anodes | 10 |
| Motions, knltting machine | | Mouldings, embossed | 788 | Nail mill machinery..... | 649 | Nickel, brass & copper tub- | |
| stop | 1126 | Mouldings, German silver | | Nail pullers | 910 | ing | 1157 |
| Motions, loom stop..... | 1126 | (see mouldings, copper, | | Nail rattlers | 937 | Nickel mfrs. | 792 |
| Motions, selvage | 1126 | brass & bronze). | | Nail sets | 789 | Nickel plated washers.... | 1184 |
| Motions, spooler stop..... | 1126 | Mouldings, metal sheet..... | 788 | Nailing machines, hoop.... | 642 | Nickel plating (see plating | |
| Motions, twister stop..... | 1126 | Mouldings, picture | 788 | Nails, barbed | 789 | works). | |
| Motions, warp stop..... | 1126 | Mouldings, rope & twisted, | | Nails, barrel | 789 | | |
| Motor armature lifts..... | 583 | etc. | 788 | Nails, box | 789 | | |
| Motor bearings | 54 | Mouldings, sheet metal.... | 788 | Nails, brass & copper..... | 789 | | |
| | | Mouldings, spiral | 788 | | | | |
| | | Mouldings, steel | 788 | | | | |

| Page | Page | Page | Page |
|---|---|---|---|
| Nickel-plated, brass & copper seamless tubing, plumbers' 893 | Nut picks (see nut crackers & picks), 907 | Oil cups, dynamo 334 | Opalescent glass 476 |
| Nickel-silver tubing.....1157 | Nut presses 907 | Oil cups, locomotive 589 | Opalite tile 1137 |
| Nickel steel 1073 | Nut screwing machines (bolt & nut screwing) 621 | Oil drums (glycerine & oil) 328 | Open circuit batteries..... 52 |
| Nickel steel castings 203 | Nut tapping machines 649 | Oil engines 420 | Open hearth charging boxes. 84 |
| Nickel steel forgings..... 449 | Nut tapping machines, mul- tiple spindle 649 | Oil extractors (oil & grease) 796 | Open hearth charging cars.. 185 |
| Nickel tubing 1157 | Nut taps (machine or nut) 1112 | Oil feeders, boiler 430 | Open hearth charging ma- chines 628 |
| Nickel & bronze gaskets... 465 | Nut wire 1205 | Oil filters 434 | Open hearth furnace doors.. 318 |
| Nickel & electroplating chemicals 222 | Nut wrenches 1213 | Oil forg's. portable..... 446 | Open hearth furnaces..... 456 |
| Nickelized sheet zinc.....1215 | Nut wrenches, bit brace ..1213 | Oil, gas 796 | Open hearth & Bessemer plant ladles 571 |
| Nickeloid, copperoid, brass- oid & steeloid..... 792 | Nut & bolt fasteners 430 | Oil guns & syringes 796 | Open rings 944 |
| Nickelumen 792 | Nut & rivet mfrs. 77 | Oil, headlights 517 | Open side planers..... 825 |
| Nickelumen alloys 9 | Nut & screw blanks 66 | Oil hole covers & cups 796 | Openers, automatic door... 318 |
| Nigger heads (see log hauls). | Nut & screw eye bolts ... 82 | Oil injectors 544 | Openers, box 797 |
| Night latches 575 | Nutmeg graters 490 | Oil lamps, marine 574 | Openers, can 179 |
| Nippers, bicycle 792 | Nuts, bicycle 794 | Oil meters 769 | Openers, cigar box..... 797 |
| Nippers, blacksmiths' 792 | Nuts, bolt & rod 795 | Oil mill machinery 649 | Openers, electric door..... 318 |
| Nippers, cutting 792 | Nuts, brass cap 794 | Oil paint mfrs 809 | Openers, letter 797 |
| Nippers, fruit 792 | Nuts, brass & copper 794 | Oil paints 813 | Openers & feeders, wool washer 1127 |
| Nippers, pneumatic bolt... 895 | Nuts, case hardened 794 | Oil pump lubricators 596 | Openers & lappers, cotton...1127 |
| Nippers & pliers..... 832 | Nuts, check 794 | Oil pumps for machine tools 919 | Opening dies 312 |
| Nipple chucks 225 | Nuts, clevis 794 | Oil, red mfrs 796 | Opera chairs & assembly seating 797 |
| Nipples, bolt, pneumatic... 895 | Nuts, cold drawn 794 | Oil refineries complete, con- structors of 796 | Optical grinding lathes..... 578 |
| Nipples, boiler 792 | Nuts, cold pressed 794 | Oil refiners' filters 435 | Opticians' machines & tools (see jewelers' & opticians') 644 |
| Nipples, hose 792 | Nuts, cold punched 794 | Oil rotary pumps 919 | Orange clippers 230 |
| Nipples, pipe 792 | Nuts, copper & brass 794 | Oil scales 1020 | Orange peel buckets..... 113 |
| Nipples, radiator 792 | Nuts, elastic 794 | Oil separators 1031 | Order semaphores, train...1030 |
| Nipples, zinc coated, steel slip 792 | Nuts, hot pressed 794 | Oil stills 1079 | Ordinary snap switches....1102 |
| Nipples & unions, soldering.1162 | Nuts, jam 794 | Oil stains (see wood stains). | Ordinance castings 203 |
| Nitre pots 902 | Nuts, joint 794 | Oil stones 796 | Ore barrows 49 |
| Nitric & muriatic acid..... 1 | Nuts, knurled 794 | Oil stoves & heaters 1095 | Ore bin gates..... 466 |
| Nitro-glycerine 792 | Nuts, lock (see lock nuts). | Oil tanks 1108 | Ore buckets (coal & ore)... 113 |
| Noir antique marble..... 751 | Nuts, machine screw 794 | Oil testing machinery 669 | Ore, chrome 797 |
| Noiseless house door hangers 317 | Nuts or collars 794 | Oil tube drills 325 | Ore cars 190 |
| Noiseless water heaters..... 524 | Nuts, phosphor bronze 794 | Oil well drilling engines ... 420 | Ore concentration 798 |
| Non-absorbent floor tile...1137 | Nuts, planer head bolt 794 | Oil well packers 799 | Ore concentrators 244 |
| Non-fusing platinoid 832 | Nuts, semi-finished 794 | Oil well supplies 796 | Ore conveyors 276 |
| Non-return valves.....1169 | Nuts, sleeve 795 | Oil well supplies, rubber ... 796 | Ore crushers (rock & ore)... 946 |
| Non-staining cements, Meier's 214 | Nuts, stove, bolt & rod ... 795 | Oil weighing scales (liquid & oil) 1020 | Ore dryers 331 |
| North patented bolts..... 82 | Nuts, tapped 795 | Oil well swivel wrenches ..1213 | Ore feeders 431 |
| Norway iron rivets..... 945 | Nuts, thumb or wing 795 | Oil & gas well supplies ... 796 | Ore, garnet 798 |
| Norway iron wire.....1205 | Nuts, tire bolt 795 | Oil & glycerine drums 328 | Ore grinders (cinder & ore). 493 |
| Norwegian white marble... 751 | Oak flooring 445 | Oil & grease cup lubricators 595 | Ore grinders, sample..... 495 |
| Nosing, stair 1063 | Oakum 795 | Oil & grease extractors..... 796 | Ore handling bridges..... 109 |
| Notching machines..... 649 | Oar mfrs. 795 | Oil & waste saving machines 650 | Ore handling machinery (coal & ore) 630 |
| Notching machines, disc.... 634 | Oat meal machinery 649 | Oil & water stones 1092 | Ore, manganese 798 |
| Notifiers, burglar 792 | Oats cleaner 795 | Oil & water well derricks... 309 | Ore reduction machinery... 650 |
| Nougat cutting machines.... 649 | Oats & rice clipping ma- chines 649 | Oiled clothing 232 | Ore samplers 1001 |
| Novelties, advertising..... 3 | Oblong combination dies.. 312 | Oiled graphite 490 | Ore tressles & tipples, steel (see tipples, mine). |
| Novelties, electric..... 351 | Ochre miners & mfrs (see clay, minerals, etc.). | Oilers, car pitt 796 | Ore wagons 1182 |
| Novelties, metal 768 | Odometers 795 | Oilers, cross head pln 796 | Ore washing machinery.... 650 |
| Novelties specialties, metal 768 | Odorless pumping outfits ... 913 | Oilers, engine & machine .. 796 | Ore & water skips & buckets 798 |
| Novelties, turned wood, etc.1210 | Odorless sewage disposal out- fits 1032 | Oilers, floor 797 | Ores, copper mattes & bul- lion 278 |
| Novelties & toys.....1148 | Odorless steel vehicles..... 795 | Oilers, locomotive 797 | Ores, iron 798 |
| Novelties & woodenware mfrs. 1211 | Odorless pumping outfits ... 913 | Oilers, loose pulley 797 | Organ blowers 69 |
| Novus sanitary structural glass 476 | Odorless sewage disposal out- fits 1032 | Oilers, mowing machine ... 797 | Organ blowing motors, elec- tric 787 |
| Nozzles, blast 792 | Office fans (desk & office) ... 428 | Oilers, multiple 797 | Organ builders, automatic.. 798 |
| Nozzles, fire boat 792 | Office fixtures 443 | Oilers, shafting 797 | Organ builders, church..... 798 |
| Nozzles, fire department ... 792 | Office fixtures, metallic (bank & office) 46 | Oilers, spring 797 | Organ hardware mfrs. (piano & organ) 508 |
| Nozzles, hose 792 | Office furniture (bank & of- fice) 453 | Oilers, stock, "Spencer" ..1131 | Organ hinges (piano & organ) 530 |
| Nozzles, hydraulic mining. 793 | Office gate hinges 530 | Oilers, windmill 797 | Organ motors 787 |
| Nozzles, ladle (sleeves & nozzles) 571 | Office railing (bank & office) 46 | Oiling device sight-feeds...1045 | Organ regulators 941 |
| Nozzles, plumbago 793 | Office supplies, civil en- gineers' (field & office) ..225 | Oiling device, twister ring .1132 | Organ tubing 1157 |
| Nozzles, quarry & brick ... 793 | Office supplies, surveyors' (field & office) 1100 | Oiling sets, engineers' ... 797 | Organ valves 1169 |
| Nozzles, roof equipment ... 793 | Office wardrobes 1183 | Oiless bearings 54 | Organs, carousels, etc..... 183 |
| Nozzles, rotary 793 | Office & loft building direc- tories 313 | Oils, aniline 797 | Organs, church 798 |
| Nozzles, spray 793 | Office & loft building direc- tories, changeable ..221 & | Oils, bicycle & sewing ma- chine 797 | Organs, military band..... 798 |
| Nozzles, stand pipe 793 | Ohmmeters 795 | Oils, core 797 | Oriental rugs..... 798 |
| Nozzles, water tower 793 | Oil agitators 3 | Oils, creosote 797 | Ornamental brick (see brick mfrs., front). |
| Nozzles & stoppers, ladle ..1092 | Oil break switches 1102 | Oils, cutting & polishing ... 797 | Ornamental glass 476 |
| Numbering machines 649 | Oil burners for furnaces, boilers & melting tanks.. 795 | Oils, cycle 797 | Ornamental iron (iron, archi- tectural & ornamental)... 548 |
| Numbering machines, hand .. 642 | Oil cabinets 178 | Oils, cylinder 797 | Ornamental iron gates..... 466 |
| Numbering machines, re- peater 1127 | Oil cake mills 780 | Oils, drilling 797 | Ornamental iron skylights..1051 |
| Numbering & paging ma- chines 649 | Oil cake packing machines. 649 | Oils, dust absorbing.. 444 | Ornamental plasterers..... 828 |
| Numbers & letters, metal ... 793 | Oil cake trimming machines 649 | Oils, floor, dust absorbing.. 444 | Ornamental radiator screens 927 |
| Nut blanking machines 649 | Oil can indicators 543 | Oils, harness 797 | Ornamental steel ceilings... 207 |
| Nut boxing machines 649 | Oil cans 180 | Oils, headlight 797 | Ornamental steel elevator mouldings 368 |
| Nut burring machines..... 649 | Oil cans, glass 795 | Oils, Japan 797 | Ornamental steel rivets.... 945 |
| Nut covers 292 | Oil cans, miners' 180 | Oils, lawnmower..... 797 | Ornaments, car ceiling trans- fer 1149 |
| Nut crackers & picks 793 | Oil cloth knives 568 | Oils, linseed (see linseed oil & cake mills). | Ornaments, cast iron..... 798 |
| Nut facing machines 649 | Oil cloth machinery 649 | Oils, lustre 797 | Ornaments, composition.... 798 |
| Nut fasteners 430 | Oil cloth mfrs 795 | Oils, paint 797 | Ornaments, gable 798 |
| Nut finishing machines ... 649 | Oil cocks 236 | Oils, polishing (cutting & polishing) 797 | Ornaments, plastic..... 798 |
| Nut grinding mills 780 | Oil corn 795 | Oils, rosin 797 | Ornaments, pressed steel... 798 |
| Nut locks 588 | Oil creosote 797 | Oils, sewing machine (bicycle & sewing machine)..... 797 | Ornaments, sheet metal.... 798 |
| Nut machinery (bolt & nut) 621 | Oil cup bases, pressure, oil- ing systems 795 | Oils, shingle stain..... 797 | Ornaments, steel 798 |
| Nut machines, cold punched. 631 | Oil cup lubricators..... 595 | Oils, tar 797 | Ornaments, transfer..... 798 |
| Nut machines, hot pressed .. 649 | Oil cup lubricators..... 595 | Oils, tempering 797 | Ornaments, wood..... 798 |
| Nut mfrs 793 | Oil cup lubricators..... 595 | Old metals (see scrap iron & steel). | Ornaments & figures, iron (see fountains, vases, etc.). |
| Nut milling machines 649 | Oil cup lubricators..... 595 | One horse wagons.....1182 | |
| Nut or machine taps 1112 | Oil cup lubricators..... 595 | Onion pullers 910 | |
| | | Onyx importers 797 | |
| | | Onyx mantels 749 | |
| | | Onyx workers 797 | |

| | Page | | Page | | Page | | Page |
|--------------------------------|------|-------------------------------|------|---------------------------------|------------|-------------------------------|------|
| Oscillographs | 799 | Packing, metallic | 804 | Paints, graphite | 812 | Paper drills | 325 |
| Out door memorials..... | 799 | Packing, piston rod (see | | Paints, heat resisting..... | 813 | Paper, flint | 816 |
| Outfits, coal dock..... | 233 | packing, metallic). | | Paints, insulating | 813 | Paper, fly | 816 |
| Outfits, cobblers' | 233 | Packing, rawhide | 804 | Paints, interior | 813 | Paper folding machines, | |
| Outfits, lead burning..... | 581 | Packing, ring | 804 | Paints, iron oxide..... | 813 | 639 & 651 | |
| Outfits, plowing, steam.... | 834 | Packing, sheet | 805 | Paints, Japanese gold..... | 813 | Paper folding machines, | |
| Outfits, pumping (see pump- | | Packing sticks | 805 | Paints, locomotive | 813 | automatic | 651 |
| ing outfits). | | Packing tools | 1145 | Paints, machinery | 813 | Paper frictions | 453 |
| Outfits, pumping, for oil, gas | | Packing, valve stem..... | 805 | Paints, marble enamel | 813 | Paper, grease proof..... | 816 |
| & water wells..... | 913 | Packing & grading machines, | | Paints, marine | 813 | Paper hangers' knives..... | 569 |
| Outfits, stamping | 1064 | fruit | 640 | Paints, mixed, for export.... | 813 | Paper hangers' rollers..... | 950 |
| Outlet blocks, "Shawmut".... | 67 | Packing & weighing machines, | | Paints, oil | 813 | Paper hangers' shears | 1037 |
| Out-rigger hoists (hatchway | | grain & flour, automatic.... | 619 | Paints, porcelain enamel.... | 813 | Paper hangers' tables | 1103 |
| & out-rigger) | 534 | Packings, wire rope pulley. | 805 | Paints, roofing | 813 | Paper hangers' tools | 1145 |
| Out-riggers, arc lamp..... | 799 | Padding machines | 1127 | Paints, rust proof..... | 814 | Paper hangers' trimmers | 1151 |
| Outside spring indicators.... | 543 | Padlock chains | 219 | Paints, shingle | 814 | Paper hangers' & painters' | |
| Oval hole cutting machines, | | Padlocks | 587 | Paints, silica graphite..... | 814 | scrapers | 1024 |
| marble | 645 | Pads, rubber horse shoe.... | 1000 | Paints, smoke stack..... | 814 | Paper insulating | 545 |
| Oval machines (circle & oval) | 629 | Pail clasps | 228 | Paints, steam proof..... | 814 | Paper joggers | 564 |
| Oval slide vises..... | 1180 | Pail ears | 805 | Paints, steel car coating.... | 814 | Paper knives | 569 |
| "O. V. C." clothes line | | Pail handle machines..... | 650 | Paints, trolley pole..... | 814 | Paper machine rollers | 950 |
| bracket | 799 | Pail machinery (tub & pail | | Paints, water proof..... | 814 | Paper makers' colors & fill- | |
| Oven builders, brick & port- | | machinery) | 670 | Palace railway car spring | | ers | 240 |
| able | 799 | Pails, collapsible (buckets | | hinges | 530 | Paper mfrs., blue print ... | 69 |
| Oven castings, bake..... | 195 | & pails) | 114 | Pallets, brick | 815 | Paper mfrs., sand | 1002 |
| Oven dies, gas..... | 311 | Pails, copper | 805 | Pamphlet stitching machines | 650 | Paper mill aprons | 11 |
| Oven doors | 320 | Pails, dairy | 805 | Pan castings, vacuum..... | 206 | Paper mill engine bars | 50 |
| Oven racks | 927 | Pails, fibre | 805 | Pan conveyors | 276 | Paper mill engine roll bars | |
| Oven thermometers | 1134 | Pails, foundry | 805 | Pan forming machines..... | 650 | & bed plates | 949 |
| Ovens, bread | 799 | Pails, galvanized iron..... | 805 | Pan & kettle ears, etc. (see | | Paper mill machinery | 651 |
| Ovens, core | 799 | Pails, garbage | 805 | pail ears). | | Paper mill plugs | 836 |
| Ovens, core baking..... | 799 | Pails, milk strainer, etc.... | 805 | Panel boards | 69 | Paper mill pumps | 919 |
| Ovens, electric | 799 | Pails, steel shop..... | 805 | Panel raising knives..... | 569 | Paper napkin machinery .. | 651 |
| Ovens, enameling | 799 | Pails, tar | 805 | Panel raising machines.... | 650 | Paper, parchment | 816 |
| Ovens, japanning or baking. | 799 | Pails, tin, lard..... | 805 | Panel stock furniture..... | 459 | Paper pulleys | 912 |
| Overflows, bath (waste & | | Pails & buckets, wood..... | 805 | Paneling machines, wood.... | 675 | Paper punches | 924 |
| overflows) | 1186 | Paint brushes | 112 | Pans, acid | 815 | Paper punching machinery. | 651 |
| Overhead tracking (see trol- | | Paint burners | 805 | Pans, amalgamating..... | 815 & 9 | Paper punching machines | |
| ley tracks). | | Paint cans (paint & varnish) | 180 | Pans, annealing | 815 | (light metal, paper, etc.).. | 657 |
| Overhead trolleys & trolley | | Paint for oil cloth..... | 805 | Pans, chemical | 815 | Paper, railroad manilla & | |
| tracks | 1152 | Paint grinders, dry material | 805 | Pans, chip | 815 | writing | 816 |
| Overhead turntables | 1160 | Paint grinding & mixing ma- | | Pans, clean up..... | 815 | Paper rewinding machines .. | 651 |
| Overlay knives | 568 | chinery | 650 | Pans, drip | 815 | Paper, roll wrapping | 816 |
| Over sewing machines (see | | Paint machines, damp proof | | Pans, drip, automobile..... | 328 | Paper, roofing & sheathing. | 816 |
| sewing machines). | | (compressed air) | 634 | Pans, dry | 815 | Paper rule forming machines | 651 |
| Overstrom concentrators | 244 | Paint machines, disinfecting | | Pans, dust | 815 | Paper rulling machines | 651 |
| Ox muzzles (horse & ox).... | 789 | (compressed air) | 634 | Pans, evaporating | 815 | Paper sacks, cement & flour. | 1001 |
| Ox shoes | 1042 | Paint machines, fireproofing | | Pans, gravel | 815 | Paper, sand | 1002 |
| Oxide, iron | 799 | (compressed air) | 639 | Pans, grinding | 815 | Paper scorching machines.. | 651 |
| Oxide of lead..... | 799 | Paint mfrs. | 805 | Pans, ice (tanks & pans).... | 542 | Paper shades | 1034 |
| Oxide of zinc..... | 799 | Paint mfrs.' color cards.... | 809 | Pans, lathe | 815 | Paper slitting & rewinding | |
| Oxidized iron, rustless..... | 557 | Paint mfrs.' "Elatroid".... | 809 | Pans, refrigerator..... | 815 | machines | 651 |
| Oxidizing machines | 1127 | Paint mfrs., oil..... | 809 | Pans, salt | 815 | Paper tarring machines | 651 |
| Oxygen cylinders | 304 | Paint mixers, power..... | 782 | Pans, shop | 815 | Paper testers | 1117 |
| Oxygen tanks | 1108 | Paint mixing machinery | | Pans, steam revolving..... | 815 | Paper, toilet | 816 |
| Oxygen tanks (hydrogen & | | (grinding & mixing)..... | 650 | Pans, sugar coating..... | 815 | Paper, tracing | 1149 |
| oxygen) | 1107 | Paint oils | 797 | Pans, vacuum | 815 & 1098 | Paper, train order | 816 |
| Oxygen & hydrogen tanks.... | 1107 | Paint roll machines..... | 650 | Pantograph machines | 650 | Paper tube machines | 651 |
| Oyster canners' machinery.. | 650 | Paint spraying contractors, | | Pantographs | 815 | Paper tube winding ma- | |
| Oyster & clam knives..... | 569 | by compressed air..... | 269 | Pantry windows, revolving.. | 815 | chines | 1133 |
| Oysterman's tools | 1145 | Paint spraying machines.... | 650 | Paper, anti-rust | 815 | Paper tubing (see tubes, | |
| | | Paint spraying machines, | | Paper bag machinery..... | 650 | mailing, etc.). | |
| | | compressed air | 650 | Paper bag mfrs..... | 44 | Paper, twine & cordage ma- | |
| | | Paint spraying & sand blast | | Paper baskets, waste..... | 51 | chinery | 651 |
| | | machinery, contractors'.... | 632 | Paper, blasting | 816 | Paper weight, anvils | 11 |
| | | Paint & paper fillers..... | 816 | Paper, blotting | 816 | Paper, wrapping, in rolls .. | 816 |
| | | Paint & varnish brushes, etc. | 112 | Paper, blue print..... | 69 | Paper & mill board mfrs., | |
| | | Paint & varnish cans..... | 180 | Paper, blue & black print.. | 65 | asbestos | 36 |
| | | Paint & varnish remover.... | 809 | Paper, bond | 816 | Paper & paint fillers | 816 |
| | | Painters' blocks | 67 | Paper box covering machines | 650 | Paper & pulp mill architects | 34 |
| | | Painters' knives | 569 | Paper box cutting & scoring | 650 | Paper & pulp mill machinery | 651 |
| | | Painters' & decorators, mural | 308 | machines | 650 | Paperhangers' scrapers | 1024 |
| | | Painters' & masons' trestles. | 1151 | Paper box edging machines.. | 650 | Papermakers' fan pumps .. | 919 |
| | | Painters' & paperhangers' | | Paper box ending machines.. | 650 | Papers, blue print & brown | |
| | | scrapers | 1024 | Paper box folding & gluing | | print | 69 |
| | | Painting machines, pneu- | | machines | 650 | Papers, building | 115 |
| | | matic | 897 | Paper box gluers | 483 | Papers, gummed | 816 |
| | | Painting sprays, compressed | | Paper box gumming ma- | | Papers, insulating | 545 |
| | | air | 809 | chines | 650 | Papers, rope | 816 |
| | | Paints, acid proof..... | 809 | Paper box machine knives.. | 569 | Papers, rope insulating ... | 999 |
| | | Paints, aluminum & gold.... | 809 | Paper box machinery..... | 650 | Papers, waxed or paraffine.. | 816 |
| | | Paints, asbestos..... | 809 | Paper box makers' shears...1037 | | Papers, wrapping | 816 |
| | | Paints, asphalt | 809 | Paper box, metal edge.... | 86 | Papers & prints, brown ... | 111 |
| | | Paints, asphaltum | 810 | Paper box topping machines. | 651 | Papier mache mfrs | 816 |
| | | Paints, barrel | 810 | Paper boxes, folding..... | 85 | Papier mache mfrs, asbestos | 36 |
| | | Paints, brick | 810 | Paper can machinery..... | 651 | Papier mache nails | 790 |
| | | Paints, bridge | 810 | Paper can mfrs..... | 816 | Paraffine papers (waxed or | |
| | | Paints, carbon | 810 | Paper, carbon | 816 | paraffine) | 816 |
| | | Paints, cold japan..... | 810 | Paper, cash register..... | 816 | Paraffine wax | 1189 |
| | | Paints, cold water..... | 810 | Paper cleaners, wall..... | 229 | Paraffining machines | 652 |
| | | Paints, copper | 810 | Paper clip & fastener ma- | | Parallel clamps | 227 |
| | | Paints, damp resisting..... | 810 | chines | 651 | Parallel door hangers & | |
| | | Paints, dipping | 810 | Paper clips | 230 | tracks | 317 |
| | | Paints, enamel (see enamels). | | Paper coating machines.... | 651 | Parallel vises | 1180 |
| | | Paints, English bath enamel | | Paper cop tubes..... | 1120 | Parallels, planer | 816 |
| | | & porcelain | 811 | Paper, copying & manifold.. | 816 | Parchment paper | 816 |
| | | Paints, English enamels & | | Paper, corrugated | 816 | Parers, fruit & vegetable .. | 816 |
| | | porcelite | 811 | Paper covering machines.... | 651 | Paring knives | 569 |
| | | Paints, fire resisting..... | 811 | Paper cutter knives..... | 569 | Paring machines, apple.... | 619 |
| | | Paints, for coating & pre- | | Paper cutting machines.... | 651 | Paris, white | 817 |
| | | serving iron & steel..... | 811 | Paper, detail | 816 | Park closets | 231 |
| | | Paints, gold (aluminum & | | Paper, dishes | 313 | Park furniture | 817 |
| | | gold) | 809 | Paper, drawing & tracing... 816 | | Park sprinklers | 1061 |

P

| | Page | | Page | | Page | | Page |
|---|------|---|------|---|------|---|------|
| Parlor door hangers | 317 | Pea machinery, canners'... | 652 | Phosphoro, metallic | 819 | Pier builders, iron (see iron & steel structural work). | |
| Parlor door hangers, adjustable track | 317 | Pea planters (bean & pea) | 826 | Phosphorous melting bars, low | 50 | Pier construction, coaling... | 233 |
| Parlor grates, gas | 491 | Pea separators | 1031 | Photo-engravers' lathes..... | 578 | Piercing saws | 1018 |
| Paroid roofing | 995 | Pea sorters | 1056 | Photo-engravers' machinery..... | 652 | Piezometers | 820 |
| Paros marble | 751 | Pea threshers (bean & pea) | 1134 | Photo-engraving arc lamps.. | 572 | Pig copper | 820 |
| Parquet floors | 445 | Pea & bean hullers..... | 541 | Photo-engraving lamps..... | 574 | Pig iron | 556 |
| Parson's bronze castings.... | 203 | Pea & bean planters..... | 826 | Photo-engraving machines.... | 652 | Pig iron barrows | 49 |
| Parson's manganese bronze | 745 | Pea & bean sorters..... | 1056 | Photograph card beveling machines | 653 | Pig iron casting machines... | 653 |
| Parson's manganese bronze ingots | 544 | Pea & bean threshers..... | 1134 | Photograph machinery..... | 653 | Pig iron scales..... | 1020 |
| Parson's white bronze castings | 203 | Peach bottom roofing slate (see roofing slate mfrs.). | | Photographers, architectural..... | 819 | Pig lead | 581 |
| Partition corners | 280 | Peach pitting machines..... | 652 | Photographic apparatus..... | 819 | Pig zinc | 820 |
| Partitions, fire proof (floors & partitions) | 439 | Peach stoners (cherry & peach) | 1091 | Photometers | 819 | Pig & bar tin..... | 1138 |
| Partitions, fireproof, Ferroin-clave (floors & partitions)... | 440 | Peanut blanchers..... | 66 | Piano action machinery..... | 653 | Pigeons, clay | 820 |
| Partitions, steel rolling | 817 | Peanut hullers or blanchers..... | 541 | Piano hardware mfrs..... | 508 | Pigments | 820 |
| Partitions, wood rolling | 817 | Peanut machinery..... | 652 | Piano hinges | 530 | Pike pole turning lathes.... | 578 |
| Parts, agricultural implement | 7 | Peanut oil presses..... | 907 | Piano machines (textile).... | 1127 | Pike poles | 900 |
| Parts, automobile (parts & fittings) | 41 | Peanut pickers | 819 | Piano makers' clamps..... | 227 | Pile driver fittings..... | 820 |
| Parts, bicycle | 63 | Peanut planters | 826 | Piano makers' pliers..... | 832 | Pile drivers' hammers..... | 499 |
| Parts, crusher | 298 | Peanut roasters | 946 | Piano makers' tweezers..... | 1160 | Pile drivers, pneumatic..... | 897 |
| Parts, mechanical | 767 | Peanut roasting machines.... | 631 | Piano or music wire..... | 1205 | Pile drivers, railroad car... | 820 |
| Parts, metal, for loose leaf devices | 768 | Peanut & coffee roasters.... | 946 | Piano plates | 831 | Pile driving contractors.... | 820 |
| Parts, mill repair, cement.. | 213 | Pearl button machinery & tools | 652 | Piano screws (see screws, wood). | | Pile driving derricks..... | 309 |
| Parts, telephone | 1114 | Pearson King bolt clamps.. | 226 | Piano & music string machinery | 653 | Pile driving engines..... | 420 |
| Parts, textile | 1131 | Peat fuel machinery..... | 652 | Piano & organ hardware mfrs. | 508 | Pile driving machinery..... | 653 |
| Parts & fittings, automobile.. | 41 | Peat-moss | 785 | Piano & organ hinges..... | 530 | Pile fabric looms..... | 1126 |
| Parts & fittings, electrical, stamped | 362 | Peavey handles (canthook & peavey) | 501 | Pick eye forging machines.. | 502 | Pile shoes | 821 |
| Passenger cars | 190 | Peavies | 818 | Pick handles | 502 | Pile sinking & manhole pumps | 918 |
| Passenger & freight elevators | 370 | Pebble dryers | 331 | Pick mfrs..... | 819 | Piles, concrete | 821 |
| Paste, anti-rust..... | 817 | Pebble & ball mills..... | 777 | Pick & sledge handle machinery | 653 | Piling, interlocking sheet wood | 821 |
| Paste, canners', etc. | 817 | Pebbles, flint | 444 | Pick-up or beam carts..... | 193 | Piling, interlocking steel.... | 821 |
| Paste, mixing machines | 652 | Pedestals, sun dial..... | 818 | Pick-ups, trolley wire..... | 1152 | Piling, lumber (see ties, poles & posts). | |
| Paste, pipe joint (see cements, pipe joint). | | Peeling & seeding machines, pumpkin | 657 | Pickaroons | 819 | Piling, sheet | 821 |
| Paste, plumbers' | 817 | Peerless flue stoppers..... | 1092 | Picker leather | 1127 | Piling, sheet steel..... | 821 |
| Paste pots | 902 | Peg & lace hole cutters, automatic | 1121 | Picker loops, tape..... | 1127 | Pill coating machines..... | 653 |
| Paste soldering | 1056 | Pen & ink artists, architectural | 35 | Picker parts | 1127 | Pill making machines..... | 653 |
| Pasteurizers, milk, etc. | 817 | Pencil timber | 818 | Picker pins | 1127 | Pillar cranes | 295 |
| Pasteurizing machinery, milk | 646 | Pencil sharpeners | 1036 | Picker rod springs..... | 1127 | Pillow blocks (see power transmitting machinery). | |
| Pasteurizing machines | 652 | Pencils, calk, propelling & repelling | 818 | Picker sticks | 1127 | Pin drilling machines..... | 653 |
| Patch bolt taps | 1112 | Pencils, copying ink..... | 818 | Picker teeth | 1127 | Pin machinery (see hook & eye machinery). | |
| Patches, tire repair (plugs & patches) | 836 | Pencils, drawing | 818 | Pickers | 1127 | Pin pointing machinery.... | 653 |
| Patent office printed Bristol boards | 817 | Pencils, French chalk..... | 818 | Pickers, bean | 819 | Pin punches | 924 |
| Patent scaffold operating device | 1019 | Pencils, graphite..... | 818 | Pickers, burr | 1127 | Pin sticking machines..... | 653 |
| Patent screw door bank safes | 46 | Pencils, lead | 818 | Pickers, coffee & peanut.... | 819 | Pin ticket machines, fabric.. | 1122 |
| Patent soapstone mortar | 783 | Pencils, lumber | 818 | Pickers, corn (see pickers & huskers, corn). | | Pin tickets | 1128 |
| Patrol boxes | 86 | Pencils, metal workers' (crayons & pencils) | 296 | Pickers, cotton | 1127 | Pin vises | 1180 |
| Pattern fillets | 434 | Pencils, slate | 818 | Pickers, cotton filled..... | 1127 | Pin wall & strap anchors.... | 10 |
| Pattern letters & figures .. | 582 | Pencils, talc & soapstone.... | 818 | Pickers, fruit | 819 | Pin wrenches | 1213 |
| Pattern makers' benches .. | 62 | Pencils, steel | 818 | Pickers, hair | 1127 | Pinch bars | 50 |
| Pattern makers' dowels | 321 | Pens, steel | 818 | Pickers, loom | 1127 | Pinch dogs, pattern makers' .. | 821 |
| Pattern makers' lathes | 578 | Penstocks | 818 | Pickers, mixing | 1128 | Pinchers | 821 |
| Pattern makers' pinch dogs .. | 821 | Pentel white marble | 751 | Pickers, peanut (see pickers, coffee & peanut). | | Pine, tar | 1113 |
| Pattern makers' vises | 1180 | Perforated belting | 61 | Pickers, rag or shoddy..... | 1128 | Pineapple machinery..... | 653 |
| Pattern shop sawing machines | 652 | Perforated metals | 818 | Pickers & cleaners, stock.... | 1128 | Pineapple slicers | 1053 |
| Patterns & models | 817 | Perforated radial block chimneys | 222 | Pickers & huskers, corn.... | 819 | Pinion cutters | 302 |
| Paulins | 817 | Perforated radial chimney blocks | 222 | Picket fences (iron & steel). | 431 | Pinion wire | 1205 |
| Paulins & covers, waterproof | 817 | Perforating machines..... | 652 | Picket heading & pointing machines | 653 | Pinions, electric railway (see gears & pinions). | |
| Paul's system of steam heating | 527 | Perforating presses..... | 907 | Picket mills (lath & picket). | 576 | Pinions, pressed steel..... | 821 |
| Pavement cleaners | 229 | Perforators, check | 221 | Picks, boiler | 819 | Pinions, rawhide (gears & pinions) | 473 |
| Pavements, cement & concrete | 207 | Petrol depth gauges..... | 469 | Picks, bung | 819 | Pinions & gears..... | 473 |
| Pavers' hammers | 499 | Petroleum & its products.... | 818 | Picks, clay | 819 | Pinions & gears, automobile.. | 473 |
| Paving blocks, asphalt | 817 | Pew & foss cards..... | 1119 | Picks, coal, locomotive tender | 819 | Pinions & rollers..... | 1098 |
| Paving blocks, cedar (see paving blocks, wood). | | Pew end mfrs..... | 819 | Picks, contractors' | 819 | Pink granite producers.... | 485 |
| Paving blocks, granite | 817 | Pew plates | 831 | Picks, drifting | 819 | Pinking irons | 561 |
| Paving blocks, stone | 818 | Pharmaceutical machinery... | 652 | Picks, ice | 819 | Pinking & scalloping machines | 653 |
| Paving blocks, street railway | 818 | Pharmaceutical stills..... | 1079 | Picks, locomotive coal..... | 820 | Pins, belaying | 821 |
| Paving blocks, vitrified | 818 | Phonograph horns | 819 | Picks, mattock (see mat-tocks). | | Pins, brake | 821 |
| Paving bricks mfrs., vitrified | 107 | Phonograph needles (see talking machine needles). | | Picks, mill | 820 | Pins, brass, dress, etc..... | 821 |
| Paving cements | 214 | Phonograph record holders, wire | 938 | Picks, mining | 820 | Pins, bricklayers' line..... | 821 |
| Paving contractors | 269 | Phonographs (see talking machines). | | Picks, nut | 793 | Pins, bridge | 109 |
| Paving contractors, artificial stone (see cement & concrete pavements). | | Phonoscopic or electric detectors | 819 | Picks, poll | 820 | Pins, butchers' block | 821 |
| Paving contractors, asphalt .. | 249 | Phosphate mill machinery.. | 652 | Picks, railroad | 820 | Pins, cast steel..... | 1128 |
| Paving materials | 818 | Phosphate rock | 819 | Picks, stone | 820 | Pins, chain | 821 |
| Paving slag | 1051 | Phosphor bronze | 819 | Picks, surface | 820 | Pins, channel | 821 |
| Paving tools | 1145 | Phosphor bronze alloys.... | 9 | Picks, tamping | 820 | Pins, clothes | 821 |
| Paving tools, asphalt | 1142 | Phosphor bronze bearings (see castings, phosphor bronze). | | Pick-up or beam carts..... | 193 | Pins, coupling (links & pins) .. | 586 |
| Paving & roofing pitch | 825 | Phosphor bronze castings.... | 203 | Picture cord wire..... | 1203 | Pins, dowel | 821 |
| Payout reels | 938 | Phosphor bronze coils..... | 238 | Picture cords | 279 | Pins, escutcheon | 426 |
| Pea cleaners (bean & pea)... | 228 | Phosphor bronze ingots..... | 544 | Picture frame machinery.... | 653 | Pins, gill & combing..... | 1123 |
| Pea harvesters (bean & pea) .. | 516 | Phosphor bronze nuts..... | 794 | Picture frame vises..... | 1180 | Pins, hackle | 1123 |
| Pea hulling machinery | 652 | Phosphor bronze rods..... | 948 | Picture hooks | 537 | Pins, high tension..... | 821 |
| | | Phosphor bronze sheets..... | 819 | Picture mouldings | 788 | Pins, hinge | 821 |
| | | Phosphor bronze washers.... | 1185 | Picture nails | 790 | Pins, husking | 541 |
| | | Phosphor bronze wire..... | 1205 | Picture wire | 1205 | Pins, insulator | 546 |
| | | Phosphor bronze wire rope.. | 1206 | | | Pins, knuckle | 821 |
| | | Phosphor copper | 819 | | | Pins, picker | 1127 |
| | | Phosphor tin | 819 | | | Pins, rolling | 821 |
| | | Phosphorizers | 819 | | | Pins, safety | 822 |
| | | | | | | Pins, sash | 822 |
| | | | | | | Pins, special | 822 |
| | | | | | | Pins, stove door..... | 822 |
| | | | | | | Pins, "T" | 1131 |
| | | | | | | Pins, taper | 822 |
| | | | | | | Pins, telephone | 1114 |
| | | | | | | Pins, turn | 822 |

| | Page | | Page | | Page | | Page |
|--|-----------|---|------------|---|------------|--|------|
| Pipe balls | 45 | Pipe, punched & formed sheets | 822 | Pitting machines, peach | 652 | Plaster mfrs., fibrous & staff | 827 |
| Pipe benders, lead | 62 | Pipe reamers (taps & reamers, pipe) | 1113 | Pivot, window sash | 1199 | Plaster mfrs., wall | 827 |
| Pipe bending machines | 653 | Pipe, riveted steel | 822 | Placer mining dredges (gold & placer mining) | 322 | Plaster mill machinery | 654 |
| Pipe bending machines, conduit | 632 | Pipe saddles | 1001 | Placer mining excavator | 426 | Plaster mixers | 782 |
| Pipe bending presses, hydraulic | 906 | Pipe seaming machines, furnace | 640 | Placer mining machinery | 654 | Plaster of paris machinery | 654 |
| Pipe bending springs | 1060 | Pipe, seamless rolled steel | 823 | Plain column type milling machines | 647 | Plaster packers (see cement packers) | |
| Pipe bends & coils | 822 | Pipe, sewer (mfrs) | 1033 | Plain tool grinders | 495 | Plaster products for paper trade | 828 |
| Pipe, block tin | 822 | Pipe, sewer, reinforced cement (mfrs.) | 1033 | Plaiting & fluting machines | 639 & 1128 | Plaster separators | 1030 |
| Pipe, blow | 68 | Pipe sleeves | 1053 | Plane irons | 561 | Plaster sowers | 1056 |
| Pipe boring machines, wood | 675 | Pipe snips | 1054 | Planer centers | 216 | Plasterers, ornamental | 828 |
| Pipe buckles | 822 | Pipe socket tapping machines | 665 | Planer chucks | 225 | Plasterers' steel corner beads | 829 |
| Pipe bushings | 178 | Pipe, soil & fittings, cast iron | 194 | Planer head bolt nuts | 794 | Plasterers' stoves | 1095 |
| Pipe calking machines | 653 | Pipe, spiral, lock seam | 823 | Planer head bolts | 82 | Plasterers' tools | 1145 |
| Pipe caps | 181 | Pipe, spiral riveted | 823 | Planer heads | 518 | Plastering fibre | 830 |
| Pipe cars | 191 | Pipe stands, portable | 823 | Planer knife grinders | 495 | Plastering hair | 830 |
| Pipe, cast iron, gas & water | 194 | Pipe, steel (see pipe & tube mills) | | Planer knives | 569 | Plastic ornaments | 798 |
| Pipe, cast iron, high pressure | 194 & 822 | Pipe stocks & dies (see stocks & dies) | | Planer parallels | 816 | Plastic relief decorations | 308 |
| Pipe, cast iron soil pipe & fittings, mfrs. | 194 | Pipe stocks & dies (see stocks & dies) | 1094 | Planer saw balancing scales | 1020 | Plastic slate roofers | 956 |
| Pipe, cast steel | 822 | Pipe, stove | 1094 | Planer tools | 1145 | Plastilina modeling composition | 782 |
| Pipe cements, brine | 213 | Pipe straightening presses | 907 | Planer type milling machines | 647 | Plate, aluminum | 830 |
| Pipe, chimney (see flue linings) | | Pipe strainers | 1096 | Planer vises | 1180 | Plate, anchors | 10 |
| Pipe clamps | 227 | Pipe straps | 1096 | Planers, bench | 825 | Plate annealers, armor | 10 |
| Pipe clamps, steel | 228 | Pipe taps & drills | 1113 | Planers, buzz | 825 | Plate, armor | 830 |
| Pipe cleaners | 229 | Pipe taps & drills, combined | 1113 | Planers, fluting feed rods | 825 | Plate bending rolls | 955 |
| Pipe cleaning augers, flexible | 38 | Pipe taps & reamers | 1113 | Planers for steel foundries | 825 | Plate dies, screw | 312 |
| Pipe coatings, cast iron | 233 | Pipe tees | 1113 | Planers, frog & switch | 825 | Plate glass machinery | 654 |
| Pipe coils & bends | 822 | Pipe testing machines | 669 | Planers, gear | 825 | Plate glass mfrs., polished | 479 |
| Pipe collars, steam | 239 | Pipe thawing apparatus | 823 | Planers, hand & foot power | 825 | Plate glass mirrors | 781 |
| Pipe columns, cast iron | 240 | Pipe threading machines (see machines, pipe cutting & threading) | | Planers, iron & steel | 825 | Plate glass trucks | 1155 |
| Pipe, conductor, etc. | 248 | Pipe tongs | 1142 | Planers, locomotive connecting rod | 825 | Plate glass, wholesale & retail | 476 |
| Pipe conveying | 1120 | Pipe trucks | 1155 | Planers, metal working | 825 | Plate, gold & silver (sheet & plate) | 483 |
| Pipe couplings | 291 | Pipe, tuyere | 823 | Planers, open side | 825 | Plate heating furnaces | 456 |
| Pipe couplings, for gas mains | 291 | Pipe vises | 1180 | Planers, plate | 825 | Plate hluges | 530 |
| Pipe couplings, lead | 291 | Pipe vises, combination | 1180 | Planers, pony | 825 | Plate hooks & rings | 537 |
| Pipe couplings & fittings, lead | 581 | Pipe, vitreous enameled steel | 823 | Planers, rail | 825 | Plate mill cars | 191 |
| Pipe coverings (see pipe & boiler coverings) | | Pipe, welded iron & steel | 823 | Planers, rotary | 825 | Plate planers | 825 |
| Pipe crushing & shearing machines, combined | 653 | Pipe welding | 823 | Planers, stave (see barrel machinery) | 825 | Plate rolling mills | 780 |
| Pipe cutter wheels | 1194 | Pipe, wood | 823 | Planers, stone | 825 | Plate scarfing machines | 654 |
| Pipe cutters | 302 | Pipe, wood fibre | 823 | Planers, wood | 825 | Plate setters, tie | 1032 |
| Pipe cutters, cast iron | 301 | Pipe wrenches | 1213 | Planers & matchers | 826 | Plate shears | 1038 |
| Pipe cutting machines, cast iron | 627 | Pipe wrenches, chain | 1212 | Planes | 826 | Plate shears, doubling | 1037 |
| Pipe cutting shears, rotary | 1038 | Pipe, wrought iron | 823 & 1215 | Planes, incline | 542 | Plate, shovel | 830 |
| Pipe cutting & threading machines | 653 | Pipe, wrought iron, cement lined | 823 | Planimeters | 826 | Plate splitting shears | 1037 |
| Pipe dampers | 305 | Pipe, wrought steel | 823 | Planing machines (see planers, various kinds) | | Plate, steel, boiler | 830 |
| Pipe dies | 312 | Pipe & bends, copper | 823 | Planing machines, fellow | 638 | Plate, steel bridge | 830 |
| Pipe dies, stove | 312 | Pipe & boiler covering mfrs | 823 | Planing mill exhausters, etc. | 427 | Plate, steel fire box | 830 |
| Pipe dip, asphalt | 37 | Pipe & boiler coverings, air cell | 824 | Planing mills, (see sashes, doors & blinds; also lumber mfrs.) | | Plate, steel fish | 830 |
| Pipe drills (taps & drills) | 1113 | Pipe & boiler coverings, asbestos | 824 | Planished iron (see locomotive jacket iron) | 1074 | Plate, steel shovel | 1074 |
| Pipe expanding & flanging machinery | 654 | Pipe & boiler coverings, cement | 824 | Planished steel sheets | 1074 | Plate straightening machinery | 654 |
| Pipe fitting crosses | 297 | Pipe & boiler coverings, cork | 824 | Plank drawer | 826 | Plate, tack | 830 |
| Pipe fittings, brass | 441 | Pipe & boiler coverings, felt | 824 | Plank pullers | 910 | Plate work punching & shearing machines | 658 |
| Pipe fittings, cast iron | 442 | Pipe & boiler coverings, fossil meal | 824 | Plank shoes | 1042 | Plate & sheet mill cars | 191 |
| Pipe fittings, lead (couplings & fittings) | 581 | Pipe & boiler coverings, magnesite | 824 | Plant builders, asphalt | 37 | Plate & window glass, wholesale & retail | 476 |
| Pipe fittings, lead lined | 442 | Pipe & boiler coverings, mineral wool | 824 | Plant tubs | 1158 | Plated carriage trimmings | 183 |
| Pipe, flange flexible joint | 822 | Pipe & fittings, cast iron soil | 194 | Plantation cars | 191 | Plated copperware | 278 |
| Pipe flanges | 443 | Pipe & fittings, furnace | 454 | Plantation locomotives | 591 | Plated & lacquered screws (see screws, wood) | |
| Pipe flanges, forged steel | 443 | Pipe & fittings, wrought iron dealers (see steam fitters' supplies) | | Planters, bean & pea | 826 | Platers' & polishers' brushes, etc. | 112 |
| Pipe flanges, pressed steel | 443 | Pipe & flue balls | 45 | Planters, beet | 826 | Platers' & polishers' supplies | 830 |
| Pipe former & sizer, lead | 582 | Pipe & tube mill machinery | 654 | Planters, corn | 826 | Plates, boiler arch | 70 |
| Pipe foundry plants | 822 | Pipe & tube mills | 824 | Planters, corn hand | 826 | Plates, bosh | 830 |
| Pipe, galvanized iron | 822 | Pipe & tube straightening machines | 654 | Planters, cotton | 826 | Plates, box printing | 830 |
| Pipe gauges (bolt & pipe) | 468 | Pipes, blow | 68 | Planters, peanut | 826 | Plates, buckle | 830 |
| Pipe, glass mfrs' | 476 | Pipes, flush & supply | 824 | Planters, potato | 826 | Plates, bumper | 830 |
| Pipe, grapple | 822 | Pipes, stand | 1065 | Planters, tobacco | 827 | Plates, center | 830 |
| Pipe hanger chains | 219 | Piping, exhaust & blow | 427 | Plants, ash handling | 37 | Plates, core | 830 |
| Pipe hangers | 504 | Piping, high pressure | 824 | Plants, ballast | 45 | Plates, crusher | 830 |
| Pipe holders (see holders, pipe nipple) | | Piston drills, pneumatic | 897 | Plants, chlorination | 224 | Plates, end-gate | 830 |
| Pipe hooks | 537 | Piston heads | 518 | Plants, coal handling, complete | 233 | Plates, expansion | 830 |
| Pipe, hydraulic | 822 | Piston packing (see packing metallic, etc.) | | Plants, concentrating | 243 | Plates, fellow | 830 |
| Pipe, hydraulic, steel riveted | 822 | Piston rod packing (see packing, metallic) | 948 | Plants, cyanide | 304 | Plates, filter press | 830 |
| Pipe, iron, lead & tin lined | 822 | Piston rods | 1169 | Plants, batch mixing | 51 | Plates, floor, iron & steel | 830 |
| Pipe joint cements | 215 | Pit cars | 191 | Plants, galvanizing, complete | 460 | Plates, floor & ceiling | 830 |
| Pipe joint compounds | 241 | Pit masts & ties | 902 | Plants, lead refining | 582 | Plates, hinge | 528 |
| Pipe joint paste (see cements, pipe joint) | | Pitch, asphalt | 825 | Plants, lllvation | 586 | Plates, index | 830 |
| Pipe jointers | 564 | Pitch, cut squares | 1062 | Plants, sand excavating & screening, portable | 1001 | Plates, joint | 831 |
| Pipe jointing machines | 654 | Pitch furnaces | 454 | Plants, sand handling | 1001 | Plates, kick & push | 831 |
| Pipe joints, flexible (see joints, flexible) | | Pitch, paving & roofing | 825 | Plaques, iron, for fireplace backs | 556 | Plates, manhole (see manheads, yokes, etc., pressed steel) | |
| Pipe, lead | 582 | Pitch, rubberized | 825 | Plaster boards, slabs, etc. | 827 | Plates, mending | 831 |
| Pipe line scrapers | 1024 | Pitch & tar furnaces | 457 | Plaster boards, etc., fireproof | 440 | Plates, name | 791 |
| Pipe, lock bar, steel | 822 | Pitcher spout pumps | 919 | Plaster capitals (see ornaments, plastic) | | Plates, pew | 831 |
| Pipe machinery (briar pipe) | 623 | Pitching machines | 654 | Plaster, insulating | 546 | Plates, piano | 831 |
| Pipe nipples | 792 | Pitching tools | 1145 | Plaster, Keene's cement (see cement, Keene's Imported; also cement, Keene's American) | | Plates, press | 1128 |
| Pipe polishing machines | 654 | Pitt balance doors | 320 | Plaster mfrs., asbestos | 827 | Plates, pressed steel | 831 |
| Pipe pressure drilling machines | 636 | | | Plaster mfrs., calcined | 827 | Plates, pressed steel spring | 831 |

| | Page | | Page | | Page | | Page |
|--|------|---|------|--|------------|--|------|
| Plates, stair | 831 | Plumbers, gas & steam fit- ters | 837 | Pneumatic dumb waiters .. | 333 | Pockets, coal | 900 |
| Plates, steel | 1074 | Plumbers, gas & steam fit- ters of Canada | 889 | Pneumatic ejectors | 336 | Pockets, cotton waste..... | 900 |
| Plates, steel etching..... | 831 | Plumbers' bags | 44 | Pneumatic elevators | 374 | Pod drills | 325 |
| Plates, suction | 831 | Plumbers' brackets (see bracket mfrs.). | | Pneumatic emery grinder.. | 896 | Pointer & rod cutter, chaplet | 221 |
| Plates, surface..... | 831 | Plumbers' brass goods mfrs. | 891 | Pneumatic engines | 420 | Pointers, bolt (see machines, bolt pointing). | |
| Plates, tie | 831 | Plumbers' cabinet ware (see water closet seats & tanks). | | Pneumatic feather drills (see pneumatic plug drillers). | | Pointers, spoke | 900 |
| Plates, universal | 832 | Plumbers' candles | 179 | Pneumatic flue cutters | 896 | Pointing machines, bolt..... | 621 |
| Plates, wire drawing..... | 832 | Plumbers' chains | 219 | Pneumatic flue expanders .. | 896 | Pointing machines, cold roll, automatic | 631 |
| Plates, zinc..... | 832 | Plumbers' charts & estimate books | 892 | Pneumatic flue rollers | 896 | Pointing machines, pin..... | 653 |
| Plates & sheets, steel..... | 1074 | Plumbers' enameled ware mfrs. (see bath tubs, enameled iron). | | Pneumatic flue welders | 896 | Pointing machines, wire..... | 673 |
| Platform elevators, double.. | 369 | Plumbers' force pumps | 919 | Pneumatic forging hammers or machines | 896 | Pointing & threading ma- chines, wood screw | 675 |
| Platform hoists, pneumatic.. | 897 | Plumbers' furnaces | 457 | Pneumatic foundry rammers (see pneumatic sand ram- mers). | | Points, cultivator..... | 900 |
| Platform or wagon scales.... | 1020 | Plumbers' gauges | 469 | Pneumatic gas lighters ... | 461 | Points, drill | 900 |
| Platform scales, portable.... | 1021 | Plumbers' grease boxes, rosin, etc. | 86 | Pneumatic granite cutters' tools (see pneumatic stone cutters' tools). | | Points, drive well..... | 900 |
| Platforms, steel car..... | 832 | Plumbers' hammers | 499 | Pneumatic hammer air hose | 538 | Points, glaziers' | 900 |
| Plating, dynamos | 335 | Plumbers' hard fibre special- ties (see fibre mfrs., hard). | | Pneumatic hammers | 896 | Points, grain drill..... | 900 |
| Plating, electro | 365 | Plumbers' hollow mill saws.. | 1018 | Pneumatic hand hammer drills | 897 | Points, harrow | 900 |
| Plating, electro, anodes for. | 10 | Plumbers' iadle (melting & plumbers') | 571 | Pneumatic hoisting engines.. | 419 | Points, ladder (spurs & points) | 1061 |
| Plating, electro bronze..... | 366 | Plumbers' marble work | 892 | Pneumatic hoists | 897 | Points, lightning rod..... | 900 |
| Plating machines, electro.... | 637 | Plumbers' paste | 817 | Pneumatic hose couplings .. | 897 | Points, plow | 900 |
| Plating, nickel (see plating works). | | Plumbers' porcelain ware mfrs. (see bath tubs, porcelain). | | Pneumatic hydro riveters.. | 897 | Points, sparking | 900 |
| Plating works | 832 | Plumbers' pumps | 919 | Pneumatic jacks | 897 | Points, stone cutters'..... | 1082 |
| Platinoid, non-fusing..... | 832 | Plumbers' repair cements .. | 215 | Pneumatic jam riveters ... | 897 | Points, well (see points, drive well). | |
| Platinum | 832 | Plumbers' rubber elbows ... | 336 | Pneumatic junior surfacers.. | 897 | Points & spurs, ladder..... | 1061 |
| Platinum, sheet & wire..... | 832 | Plumbers' rubber goods ... | 892 | Pneumatic lattice column riveters | 897 | Pokers, stove | 900 |
| Platinum tubing | 1157 | Plumbers' sanitary earthen- ware mfrs. | 893 | Pneumatic lifts | 583 | Polarity, indicators | 543 |
| Platinum wire | 832 | Plumbers' saws | 1018 | Pneumatic locomotives (see locomotives, compressed air). | | Pole arm braces..... | 87 |
| Playing marbles | 752 | Plumbers' scrapers | 1023 | Pneumatic motors | 897 | Pole chains (see chains, coil). | |
| Pliable metal envelopes..... | 426 | Plumbers' screws | 1029 | Pneumatic painting machines | 897 | Pole changer, telephone.... | 1114 |
| Pliers, fencing | 832 | Plumbers' seamless tubing, in brass, copper & nickel plated | 893 | Pneumatic pile drivers..... | 897 | Pole clamps | 227 |
| Pliers, gas | 832 | Plumbers' slate | 1052 | Pneumatic piston drills ... | 897 | Pole coupiers | 290 |
| Pliers, glass cutters'..... | 832 | Plumbers' slate work (see slate urinals, slabs, etc.). | | Pneumatic platform hoists.. | 897 | Pole crab | 900 |
| Pliers, lead pipe expanding.. | 832 | Plumbers' soil | 893 | Pneumatic polishing ma- chinery | 897 | Pole lock mfrs..... | 587 |
| Pliers, lineman's | 832 | Plumbers' soil cups | 299 | Pneumatic portable saws .. | 897 | Pole machinery (shaft & pole) | 663 |
| Pliers, piano makers'..... | 832 | Plumbers' soldering coppers (see soldering coppers). | | Pneumatic presses | 897 | Pole protectors | 900 |
| Pliers, wire cutting..... | 832 | Plumbers' supplies (jobbers) | 893 | Pneumatic pumping systems | 898 | Pole rings | 944 |
| Pliers & nippers | 832 | Plumbers' tack molds | 1104 | Pneumatic pumps | 919 | Pole risers | 900 |
| Plough steel ropes..... | 999 | Plumbers' tool bags | 1142 | Pneumatic punches | 898 | Pole road cars..... | 191 |
| Plow anvils | 11 | Plumbers' tools | 1145 | Pneumatic reaming & tap- ping drills | 898 | Pole seats | 1030 |
| Plow beams, steel..... | 832 | Plumbers' torches (see torches, various kinds). | | Pneumatic rivet holder-on.. | 898 | Pole shims | 1040 |
| Plow bolts | 82 | Plumbers' washers | 1185 | Pneumatic riveters | 898 | Pole sockets, flag..... | 1055 |
| Plow clamps | 227 | Plumbers' wood work | 895 | Pneumatic rock drills..... | 898 | Pole steps | 900 |
| Plow clevises, etc..... | 229 | Plumbers' & tinners' fur- naces | 457 | Pneumatic rotary drills.... | 898 | Pole straps | 1096 |
| Plow coulters | 833 | Plumbing fixtures | 895 | Pneumatic sand rammers.... | 898 | Pole top equipment..... | 900 |
| Plow handle machinery..... | 654 | Plunge & shower baths for ships | 52 | Pneumatic scaling hammer.s | 898 | Pole tops | 1147 |
| Plow mfrs. | 833 | Plunger elevators | 374 | Pneumatic screen shakers.. | 898 | Pole & shaft couplers..... | 290 |
| Plow points | 900 | Plunger pumps | 919 | Pneumatic sealing hammers. | 898 | Pole & shaft machinery.... | 663 |
| Plow steel | 1074 | Plush, car | 182 | Pneumatic signals..... | 1045 | Poles, arc lamp..... | 900 |
| Plow & lister shares..... | 1035 | Plush cutters | 1121 | Pneumatic staybolt breakers | 898 | Poles, curtain | 900 |
| Plowing outfits, steam..... | 834 | Plush knives | 569 | Pneumatic staybolt chucks.. | 898 | Poles, electric light..... | 351 |
| Plows, asparagus | 834 | Pneumatic air hoists (see pneumatic hoists). | | Pneumatic staybolt clippers. | 898 | Poles, electric light, pulley blocks for | 67 |
| Plows, breaking | 834 | Pneumatic alligator riveters | 895 | Pneumatic stone cutters' tools | 899 | Poles, fire department sliding | 436 |
| Plows, clay | 834 | Pneumatic anvils | 11 | Pneumatic stone surfacing machines | 899 | Poles, iron flag..... | 443 |
| Plows, contractors' | 834 | Pneumatic armor scaling machines | 895 | Pneumatic telephone cush- ions | 1114 | Poles, iron & steel, flag.... | 900 |
| Plows, corn | 834 | Pneumatic baby drillers ... | 895 | Pneumatic tires, double tube. | 1140 | Poles, iron & steel trolley... | 900 |
| Plows, disc or rotary | 834 | Pneumatic baby surfacers.. | 895 | Pneumatic tool appliances.. | 899 | Poles, pike | 900 |
| Plows, ditching | 834 | Pneumatic beading hammers | 895 | Pneumatic tool hose..... | 540 | Poles, posts & ties..... | 1135 |
| Plows, gang | 834 | Pneumatic bolt nippers .. | 895 | Pneumatic tool lubricants.. | 899 | Poles, railway..... | 934 |
| Plows, gang, steam | 834 | Pneumatic boring machines. | 895 | Pneumatic tool lubricators, | 899 & 596 | Poles, telegraph | 1114 |
| Plows, gang, wheel | 834 | Pneumatic breast drills ... | 895 | | | Poles, telephone | 1114 |
| Plows, garden | 834 | Pneumatic caissons (see cais- son foundations). | | Pneumatic tool repairing.... | 899 | Police lanterns | 575 |
| Plows, grooving | 835 | Pneumatic casting cleaners | 895 | Pneumatic tools | 899 | Police & fire patrol wagons. | 1182 |
| Plows, hop | 835 | Pneumatic center grinders.. | 895 | Pneumatic tools & supplies. | 899 | Polish, cutlery | 900 |
| Plows, ice | 835 | Pneumatic chain hoists .. | 895 | Pneumatic trolley hoists.... | 899 | Polish, floor, hard wax.... | 444 |
| Plows, locomotive | 835 | Pneumatic chipping & calk- ing hammers | 895 | Pneumatic tubes..... | 899 | Polish furniture | 901 |
| Plows, potato | 835 | Pneumatic clocks | 231 | Pneumatic tubes & caissons for bridge piers..... | 899 | Polish, metal | 768 |
| Plows, rooter | 835 | Pneumatic compression riv- eters | 895 | Pneumatic water supply sys- tems | 899 & 1188 | Polish, shoe | 1042 |
| Plows, shovel | 835 | Pneumatic concrete rammers | 895 | Pneumatic water tanks..... | 1108 | Polish, stove | 1094 |
| Plows, snow | 835 | Pneumatic conveyors | 1120 | Pneumatic winches | 900 | Polished copper | 278 |
| Plows, street | 1096 | Pneumatic crane motors.... | 896 | Pneumatic winding drums.. | 900 | Polished granite columns... | 485 |
| Plows, sub-soil | 835 | Pneumatic cranes | 295 | Pneumatic wood boring ma- chines | 900 | Polished plate glass mfrs... | 479 |
| Plows, sulky, reversible .. | 835 | Pneumatic cutters | 302 | Pneumatic wrenches..... | 1214 | Polished steel shafting.... | 1035 |
| Plows, sulky, riding or wheel | 835 | Pneumatic cylinder cocks .. | 236 | Pneumatic yoke riveters.... | 900 | Polished steel sheets..... | 1074 |
| Plows, swivel, reversible & hillside | 835 | Pneumatic dispatch tubes .. | 896 | Pocket electric lamps..... | 574 | Polished wire glass..... | 479 |
| Plows, wheel walking | 835 | Pneumatic drift bolt drivers | 896 | Pocket gauges, test..... | 470 | Polishers' brushes | 112 |
| Plug cocks | 236 | Pneumatic drills | 896 | Pocket knives (see cutlery mfrs.). | | Polishers' & platers' supplies | 830 |
| Plug drillers, pneumatic (see pneumatic stone cut- ters' tools). | | | | Pocket meters | 769 | Polishing alundum | 9 |
| Plug testing (valve & plug) | 1163 | | | Pocket rules | 1000 | Polishing belts | 62 |
| Plug valves | 1169 | | | Pocket tapes | 1111 | Polishing brushes, floor.... | 111 |
| Plug & ring gauges | 469 | | | Pocket wrenches, adjustable. | 1211 | Polishing felts | 431 |
| Plugs, boiler flue | 836 | | | Pocket wrenches (bicycle & pocket) | 1211 | Polishing heads | 518 |
| Plugs, brass | 836 | | | | | Polishing irons | 561 |
| Plugs, conduit sealing | 836 | | | | | Polishing lathes | 578 |
| Plugs, fusible | 836 | | | | | Polishing lathes (buffing & polishing) | 577 |
| Plugs, paper mill | 836 | | | | | Polishing leather | 582 |
| Plugs, soil pipe testing .. | 836 | | | | | Polishing machinery, stone.. | 667 |
| Plugs, spark | 836 | | | | | Polishing machines | 654 |
| Plugs, tie | 836 | | | | | Polishing machines, cable & wire | 674 |
| Plugs, wall | 1183 | | | | | Polishing machines, can..... | 625 |
| Plugs, wood | 836 | | | | | Polishing machines, cutlery. | 634 |
| Plugs & patches, tire repair | 836 | | | | | Polishing machines, glass.... | 641 |
| Plumb bobs | 836 | | | | | Polishing machines, granite & marble | 641 |
| Plumbago | 836 | | | | | Polishing machines, handle.. | 642 |
| Plumbago, electrotyping.... | 837 | | | | | | |
| Plumbago nozzles | 793 | | | | | | |
| Plumbago sleeves | 1053 | | | | | | |
| Plumbago stoppers | 1092 | | | | | | |
| Plumbago, yacht | 837 | | | | | | |

| | Page | | Page | | Page | | Page |
|--|------|---|------|---|------|---|------|
| Polishing machines, marble & stone | 654 | Portable grinders, electric .. | 494 | Pots, paste | 902 | Pressed steel ornaments.... | 798 |
| Polishing machines, pipe.... | 654 | Portable hoisting engines .. | 421 | Pots, slag | 902 | Pressed steel pinions..... | 821 |
| Polishing machines, rim.... | 658 | Portable holsts | 534 | Pots, soldering | 902 | Pressed steel pipe flanges... | 443 |
| Polishing machines, screw.. | 662 | Portable houses | 901 | Pots, tallow | 902 | Pressed steel plates..... | 831 |
| Polishing machines, shaft... | 663 | Portable ice machines..... | 643 | Pots, watering | 902 | Pressed steel post hangers... | 504 |
| Polishing machines, wire & cable | 674 | Portable light, contractors' .. | 271 | Pottery kilns (china & pottery) | 566 | Pressed steel pulleys | 912 |
| Polishing machines, wood... | 675 | Portable locomotive weighing apparatus | 589 | Pottery machinery | 654 | Pressed steel shaft hangers... | 504 |
| Polishing machines, wood handle | 675 | Portable mining & crushing machinery | 648 | Poultry netting (wire)..... | 1205 | Pressed steel specialties.... | 903 |
| Polishing materials | 901 | Portable machine shop holsts .. | 534 | Pounders, steak | 902 | Pressed steel split pulleys... | 912 |
| Polishing materials, aluminum | 901 | Portable oil forges | 446 | Powder borax for annealing, etc. | 84 | Pressed steel spools..... | 1058 |
| Polishing meal | 767 | Portable oven builders..... | 799 | Powder filling & folding machines | 655 | Pressed steel spring plates... | 831 |
| Polishing oils (cutting & polishing) | 797 | Portable pipe stands | 823 | Powder kegs, steel | 565 | Pressed steel tanks..... | 1108 |
| Polishing supplies, granite & marble | 901 | Portable platform scales | 1021 | Powder mfrs | 902 | Pressed steel wheels..... | 1194 |
| Polishing wheels, compressed linen | 1194 | Portable presses, hydraulic .. | 906 | Powder mfrs., aluminum .. | 902 | Pressers & flyers..... | 1128 |
| Polishing wheels, granite.... | 1193 | Portable railway, contractors' .. | 271 | Powder mill machinery..... | 655 | Presses, arbor | 903 |
| Polishing wheels, wood.... | 1196 | Portable railways | 935 | Powder putty | 926 | Presses, armature (see presses, power) .. | |
| Polishing & buffing machines, knife | 644 | Portable ranges | 936 | Powder tracing cloth | 1149 | Presses, auger & bit heading .. | 903 |
| Polishing & buffing wheels.... | 1192 | Portable riveting machines .. | 659 | Powdered limestone | 586 | Presses, baling & hay..... | 903 |
| Polka machines | 654 | Portable saw mills | 1016 | Powdered talc | 1104 | Presses, bench | 903 |
| Polygon & rafter gauges..... | 469 | Portable saws, pneumatic..... | 897 | Powders, bronze | 110 | Presses, bending | 903 |
| Pompeian brick mfrs..... | 106 | Portable shower baths | 52 | Powders & compounds, car cleansing | 181 | Presses, bicycle chain..... | 903 |
| Pony planers | 825 | Portable slotting machines .. | 665 | Power brake equipment for traction cars | 88 | Presses, bicycle saddle..... | 903 |
| Pool tables, portable, for houses | 64 | Portable table lamps..... | 574 | Power conveyors, automatic .. | 273 | Presses, blacksmiths' drill (see drills, blacksmiths') .. | |
| Pool & billiard table cushions | 300 | Portable tapping & reaming machines | 669 | Power drives | 328 | Presses, blanking | 903 |
| Pop-corn machines | 654 | Portable tracks | 1149 | Power equipments, gas | 902 | Presses, Bliss inclinable.... | 903 |
| Pop safety valves..... | 1169 | Portable vise stands | 1178 | Power fans | 429 | Presses, box | 903 |
| Pop valve mufflers..... | 789 | Portable vises | 1180 | Power hammers | 499 | Presses, brick (see machines, brick press) .. | |
| Poppers, corn | 901 | Portable warehouse cranes..... | 296 | Power house valves..... | 1169 | Presses, broaching | 903 |
| Porcelain bath tubs..... | 52 | Portable water filters | 435 | Power plant engineers | 411 | Presses, bullet lubricating & sizing | 903 |
| Porcelain bushings | 178 | Portable & stationery ranges .. | 936 | Power presses | 907 | Presses, bumping | 903 |
| Porcelain cleats | 229 | Portables, gas & electric light | 404 | Power pumps | 919 | Presses, cam | 903 |
| Porcelain door knobs..... | 318 | Portables & electric light reading lamps | 351 | Power punches (see machinery punching & shearing) .. | | Presses, car wheel | 903 |
| Porcelain enamel paints.... | 813 | Portland cements | 215 | Power punching, shearing & forging presses | 1037 | Presses, card cutting (see card cutting machines) .. | |
| Porcelain enamels | 376 | Portland cements, stainless .. | 216 | Power shears | 1044 | Presses, cartridge making.. | 903 |
| Porcelain lined refrigerator tanks | 1109 | Positive pressure blowers .. | 69 | Power shovels, grain | 1044 | Presses, ceiling | 903 |
| Porcelain machinery, electrical | 637 | Post bases | 901 | Power switchboards (light & power) | 1100 | Presses, cheese | 903 |
| Porcelain or clay cleats.... | 229 | Post-boring machines | 654 | Power testing machines | 669 | Presses, cider (wine & cider) .. | 908 |
| Porcelain paints | 811 | Post caps | 901 | Power transmission chains.... | 219 | Presses, cloth | 1128 |
| Porcelain shades | 1034 | Post drill presses | 322 | Power transmitting machinery | 655 | Presses, cloth, rotary steam.. | 1128 |
| Porcelain sign letters..... | 582 | Post drills | 325 | Power transmitting machinery, electric | 655 | Presses, coining (see coining machines) .. | |
| Porcelain sinks (see bath tubs, porcelain) .. | | Post hangers, pressed steel .. | 504 | Power transmitting machinery, electric | 655 | Presses, compo moulding... 903 | |
| Porcelain specialties, electrical, mechanical, etc.... | 901 | Post hangers, (shaft, post, etc.) | 504 | Power transmitting machinery, rope (see rope transmitting machinery) .. | | Presses, concrete (see concrete hollow building block machinery) .. | |
| Porcelain supplies, electric (see cleats, porcelain & clay) .. | | Post-hole augers | 38 | Power & lighting machinery, electric | 351 | Presses, continuous | 904 |
| Porcelain tubes | 1156 | Post-hole diggers | 313 | Power & lighting machinery, gas | 640 | Presses, copying | 904 |
| Porcelain urinal stalls..... | 1162 | Post-irons, porch | 561 | Powers, dog, sheep, etc.... | 903 | Presses, cornice | 904 |
| Porcelain ware, plumbers' (see bath tubs, porcelain) .. | | Post mauls | 766 | Powers, horse | 545 | Presses, cotton | 904 |
| Porcelain & enameled guides... | 1123 | Post-office equipments | 901 | Precision, instruments of.... | 578 | Presses, cotton bat..... | 904 |
| Porcelite bar lock skylights... | 1051 | Post-office furniture | 459 | Prepaid gas meters..... | 769 | Presses, cotton seed hull.... | 904 |
| Porcelite & English enamel paints | 811 | Postal bag racks | 927 | Prepared, advertising matter .. | 3 | Presses, cotton seed oil.... | 904 |
| Porch column boring machines | 654 | Postal scales | 1021 | Prepared mortar | 783 | Presses, crank pin..... | 904 |
| Porch columns, etc..... | 240 | Posts, arc lamp | 901 | Preparing & finishing gills.. | 1123 | Presses, cutting (see presses, power) .. | |
| Porch furniture (lawn & porch) | 459 | Posts, blinding | 901 | Prepay meter lock mfrs..... | 587 | Presses, dehydrating | 904 |
| Porch post irons..... | 561 | Posts, car bumping | 901 | Preservative, brick & stone.. | 109 | Presses, dial (see presses, power) .. | |
| Porch shades | 1034 | Posts, corner | 280 | Preservatives, wood | 1210 | Presses, die | 904 |
| Porch supports | 901 | Posts, drilling | 901 | Preserver, gauge glass..... | 467 | Presses, die cutting | 904 |
| Porch swing chains | 219 | Posts, hitching | 901 | Preservers, corking machines .. | 633 | Presses, disc notching.... | 904 |
| Porch trimmings (house & porch) | 541 | Posts, indicator | 901 | Preservers, life | 583 | Presses, drawing | 904 |
| Porches, fire proof | 440 | Posts, iron railing | 901 | Preserving machinery, timber .. | 669 | Presses, drill | 322 |
| Porous terra cotta, fireproofing | 441 | Posts, iron & steel | 901 | Press boards, insulating.... | 546 | Presses, drill, ball bearing.. | 322 |
| Porphyry, Syenite & Labradorite granite | 485 | Posts, lamp | 571 | Press dies | 312 | Presses, drill, high speed.... | 322 |
| Port lights, ship | 901 | Posts, mooring | 902 | Press papers & boards..... | 1128 | Presses, drill, post..... | 322 |
| Porta Santa marble..... | 751 | Posts, poles & ties | 1135 | Press plates | 1128 | Presses, drop | 904 |
| Portable air compressors, on auto trucks | 243 | Posts, railing, brass | 902 | Press plates, filter | 830 | Presses, embossing | 904 |
| Portable automobile cranes..... | 292 | Posts, railway signal | 902 | Press & punching table combined, boiler makers' | 71 | Presses, engravers' transfer .. | 904 |
| Portable billard & pool tables | 64 | Posts, tool | 1142 | Pressed glass shades..... | 1034 | Presses, excelsior baling .. | 905 |
| Portable boilers on wheels .. | 72 | Posts & ties, plt | 902 | Pressed glass specialties (blown & pressed) | 480 | Presses, fillet | 905 |
| Portable boring machines.... | 622 | Pot chains | 219 | Pressed light glass mfrs.... | 479 | Presses, filter | 905 |
| Portable cranes | 295 | Pot & kettle scrapers..... | 1024 | Pressed metal shapes..... | 1035 | Presses, finger feed | 905 |
| Portable cranes, warehouse.. | 296 | Potash | 902 | Pressed metal sheaves..... | 1039 | Presses, fish oil | 905 |
| Portable drills | 325 | Potato coverers & hillers .. | 902 | Pressed steel | 1074 | Presses, flanging | 905 |
| Portable drills, electric | 324 | Potato diggers | 313 | Pressed steel boiler heads... 71 | | Presses, foot | 905 |
| Portable engines on wheels .. | 421 | Potato harvesting machinery .. | 654 | Pressed steel boiler saddles.. | 71 | Presses, for wood drill | 322 |
| Portable farm elevators | 370 | Potato hooks | 537 | Pressed steel cooking utensils | 277 | Presses, forging | 905 |
| Portable filters, water..... | 435 | Potato mashers | 752 | Pressed steel flanges..... | 443 | Presses, forming | 905 |
| Portable forge racks..... | 927 | Potato planters | 826 | Pressed steel forgings..... | 449 | Presses, four plate printing .. | 905 |
| Portable forges | 446 | Potato plows | 835 | Pressed steel frames, automobile | 452 | Presses, friction clutch | 905 |
| Portable foundry cranes..... | 293 | Potato scoops | 1022 | Pressed steel garbage cans, seamless | 461 | Presses, fruit | 905 |
| Portable foundry holsts | 533 | Potato smashers | 902 | Pressed steel manheads, yokes, etc | 745 | Presses, gang tool | 905 |
| Portable grain elevators | 484 | Potato sorters | 1056 | | | Presses, gilding & stamping .. | 905 |
| Portable grinders | 495 | Potato sprinklers | 1061 | | | Presses, glass | 905 |
| | | Potential indicators | 543 | | | Presses, gunpowder | 905 |
| | | Pots, annealing | 902 | | | Presses, hand | 905 |
| | | Pots, asphalt & mastic | 902 | | | Presses, hand, for rubber mfrs. | 905 |
| | | Pots, chemical | 902 | | | Presses, hay (baling & hay).. | 903 |
| | | Pots, fire | 902 | | | Presses, horizontal | 905 |
| | | Pots, flower | 445 | | | Presses, horn | 905 |
| | | Pots, galvanizing (see kettles, galvanizing) .. | | | | Presses, horning & wringing.. | 905 |
| | | Pots, glass | 902 | | | Presses, hydraulic | 905 |
| | | Pots, glue | 902 | | | Presses, hydraulic crank pin .. | 906 |
| | | Pots, lead | 902 | | | Presses, hydraulic flanging .. | 906 |
| | | Pots, marking | 902 | | | Presses, hydraulic forging .. | 906 |
| | | Pots, melting | 902 | | | Presses, hydraulic, four column | 906 |
| | | Pots, mixing | 902 | | | | |
| | | Pots, nitre | 902 | | | | |

| Page | | Page | | Page | | Page | |
|-------------------------------|------------|-------------------------------|------|--------------------------------|------------|------------------------------|------|
| Presses, hydraulic lead pipe | 906 | Pressure reducing valves | 1169 | Pruning shears | 1037 | Pump chains | 219 |
| Presses, hydraulic leather | | Pressure regulators | 941 | Prying bars, carpenters' | 49 | Pump chains, galvanized | 218 |
| beiting | 906 | Pressure regulators for cane | | Publications, trade | 909 | Pump controllers | 273 |
| Presses, hydraulic macaroni | 906 | mills | 942 | Puddling furnaces | 457 | Pump controllers, electric | 272 |
| Presses, hydraulic pipe bend- | | Pressure tanks | 1108 | Puddling rollers | 950 | Pump governors | 484 |
| ing | 906 | Pressure & speed recorders | 938 | Pug mills | 780 | Pump leathers | 582 |
| Presses, hydraulic, portable | 906 | Preventives, rust | 1001 | Puller & recorker | 910 | Pump regulators | 942 |
| Presses, hydraulic pulley | 906 | Prick & center punches | 923 | Pullers, beet | 910 | Pump rods | 948 |
| Presses, hydraulic rubber | | Prime movers | 909 | Pullers, car | 910 | Pump starting exhausters | 428 |
| vulcanizing | 906 | Priming cups | 299 | Pullers, cork | 910 | Pump stock & pipe boring | |
| Presses, hydraulic spring | | Print roll engravers, textile | 1122 | Pullers, nail | 910 | machines | 650 |
| bending | 906 | Print work drying machines | 1122 | Pullers, onion | 910 | Pump tools | 1145 |
| Presses, hydraulic wheel | 906 | Print works engraving ma- | | Pullers, plank | 910 | Pump valves | 1170 |
| Presses, hydrostatic wheel | 906 | chines | 1122 | Pullers, spike | 910 | Pump & engine starting ex- | |
| Presses, inclinable | 906 | Printers' blankets | 66 | Pullers, staple | 910 | hausters | 428 |
| Presses, jute | 906 | Printers' form trucks | 1155 | Pullers, stump | 910 | Pumping engines, deep well | 413 |
| Presses, knit goods | 1128 | Printers' wood furniture | 909 | Pullers, tack | 910 | Pumping engines, gas & | |
| Presses, knuckle joint | 906 | Printers' & lithographers' | | Pullers, wire | 910 | gasoline | 421 |
| Presses, lard & tallow | 906 | blankets | 66 | Pulley balancing machinery | 656 | Pumping engines, high duty | 417 |
| Presses, lead, for cable cov- | | Printing machines, blue | 69 | Pulley block chains, differ- | | Pumping engines, hot air | 419 |
| ering | 906 | Printing machines, box board | 622 | ential | 218 | Pumping engines, hydraulic | 419 |
| Presses, leather | 907 | Printing machines, photo | 652 | Pulley blocks (see blocks, | | Pumping jacks | 563 |
| Presses, lever | 907 | Printing machines, yarn | 1133 | various kinds) | | Pumping machinery | 656 |
| Presses, linseed oil | 907 | Printing plates, box | 830 | Pulley blocks for electric | | Pumping machinery, gas | 640 |
| Presses, lithographers' | 907 | Printing presses, four plate | 905 | light poles | 910 | Pumping machinery, gasoline | 657 |
| Presses, lock corner die | 907 | Printing presses, tissue pa- | | Pulley boring & turning | | Pumping machines, horse | |
| per | 907 | per | 908 | machines | 656 | power | 657 |
| Presses, mandrel (see | | Printing presses, wood | 909 | Pulley bracket, clothes line | 910 | Pumping outfits for oil, gas | |
| presses, arbor). | | Printing presses & machin- | | Pulley covering | 910 | & water wells | 913 |
| Presses, molding (see sand | | ery | 655 | Pulley hub drilling & tap- | | Pumping outfits, horsepower | 913 |
| molding machines). | | Printing, sun & helio- | | ping machines | 656 | Pumping outfits, odorless | 913 |
| Presses, multiple punching | 907 | graphic | 1099 | Pulley machinery, wood | 675 | Pumping systems, fuel oil | 453 |
| Presses, nut | 907 | Printing & counting wheels | 1193 | Pulley mfrs., sash | 1004 | Pumping systems, pneumatic | 898 |
| Presses, peanut oil | 907 | Printing & cutting machines, | | Pulley molding machines | 656 | Pumpkin machinery, can- | |
| Presses, perforating | 907 | butter | 625 | Pulley mortiser, sash | 1004 | ners' | 657 |
| Presses, pipe straightening | 907 | Printing & embossing presses | 907 | Pulley mortising machines | 656 | Pumpkin peeling & seeding | |
| Presses, pneumatic | 897 | Printing & punching ma- | | Pulley or sheave filling, rub- | | machines | 657 |
| Presses, power | 907 | chines | 656 | ber | 1038 | Pumps, acid | 913 |
| Presses, power, punching, | | Printing & rewinding ma- | | Pulley packing, wire rope | 805 | Pumps, air | 913 |
| shearing & forging | 907 | chines, rotary | 660 | Pulley presses | 907 | Pumps, air chamber | 913 |
| Presses, printing (printing | | Prints, black & blue | 65 | Pulley presses, hydraulic | 906 | Pumps, air lift | 913 |
| machinery, presses, etc.) | 655 | Prints, brown | 111 | Pulley stands, mule | 1066 | Pumps, air, tire | 913 |
| Presses, printing & emboss- | | Prism plate glass | 476 | Pulley taps | 1113 | Pumps, ammonia | 914 |
| ing | 907 | Prism system skylights (see | | Pulley turning lathes | 578 | Pumps, artesian well | 914 |
| Presses, pulley | 907 | glass mfrs., prismatic). | | Pulleys, "American," split | | Pumps, automatic | 914 |
| Presses, punch, saw teeth | | Prismatic glass mfrs. | 479 | & whole | 910 | Pumps, automobile | 914 |
| Presses, punching, saw teeth | | Prismatic globes & shades | 482 | Pulleys, "American," | | Pumps, barrel | 914 |
| Presses, punching, hand | | Prismatic hoods, electric | | wrought steel | 910 & 1004 | Pumps, belt driven | 914 |
| power | 907 | Prismatic lights | 909 | Pulleys, anti-friction (dumb- | | Pumps, bicycle | 914 |
| Presses, rail straightening | 907 | Prismatic shades | 1034 | waiter) | 911 | Pumps, bilge | 914 |
| Presses, reducing | 907 | Prismatic vault & sidewalk | | Pulleys, arc lamp (see blocks | | Pumps, boiler feed | 914 |
| Presses, riveting | 907 | lights | 1175 | pulley). | | Pumps, boiler testing | 915 |
| Presses, screw | 908 | Prison cell locks & locking | | Pulleys, awning or tackle | 911 | Pumps, brass | 915 |
| Presses, seal | 908 & 1029 | device | 589 | Pulleys, bell cord | 911 | Pumps, brewery (see pumps, | |
| Presses, sewer pipe (see | | Prison cells (see jail & cell | | Pulleys, cast iron | 911 | steam). | |
| sewer pipe machinery). | | work, steel). | | Pulleys, ceiling | 911 | Pumps, brine | 915 |
| Presses, shaft straighten- | | Private waterworks | 1188 | Pulleys, clothes line | 911 | Pumps, centrifugal | 915 |
| ing | 908 | Private waterworks pumps | 919 | Pulleys, cone | 911 | Pumps, centrifugal, water | |
| Presses, shearing | 908 | Producers, gas | 462 | Pulleys, fibre | 911 | tank | 916 |
| Presses, sheet metal work- | | Producers' gas furnaces | 457 | Pulleys, flange | 911 | Pumps, chain | 916 |
| ing | 908 | Producers, gas, water seal | 462 | Pulleys, flanged "Ameri- | | Pumps, circulating | 916 |
| Presses, shook | 908 | Producers, marble | 751 | can" | 911 | Pumps, cistern | 916 |
| Presses, signature | 908 | Producers, quick silver | 926 | Pulleys, friction clutch | 911 | Pumps, condenser (see con- | |
| Presses, skein | 908 | Producers, stone | 1082 | Pulleys, guide | 911 | densers, steam). | |
| Presses, sprue (see cutters, | | Profiling machines | 656 | Pulleys, hay fork | 912 | Pumps, contractors', for | |
| sprue, foot & power). | | Program clocks | 231 | Pulleys, iron split | 912 | sewers & foundations | 916 |
| Presses, stamping | 908 | Projectile boring & turning | | Pulleys, loose | 912 | Pumps, copper | 916 |
| Presses, starch | 908 | lathes | 578 | Pulleys, machine moulded | 912 | Pumps, Cornish | 916 |
| Presses, steam | 1128 | Projectile chucks | 225 | Pulleys, paper | 912 | Pumps, creamery | 916 |
| Presses, Stiles' punching | 908 | Projectiles, steel | 909 | Pulleys, pressed steel | 912 | Pumps, deck (ship & deck) | 920 |
| Presses, straightening | 908 | Projectors or search lights | 909 | Pulleys, pressed steel split | 912 | Pumps, deep artesian well, | |
| Presses, straight sided | 908 | Promenade roofing tile | 998 | Pulleys, sash | 1004 | steam | 916 |
| Presses, sugar filcing (see | | Promenade tile | 1137 | Pulleys, screw | 912 | Pumps, deep well | 916 |
| sugar machinery). | | Prong dies (spring or prong) | 312 | Pulleys, self-oiling | 912 | Pumps, diaphragm | 917 |
| Presses, ticket printing | 908 | Pronged rivets | 945 | Pulleys, show case | 912 | Pumps, displacement | 917 |
| Presses, tincture | 1128 | Propeller fans | 429 | Pulleys, speed changing | 912 | Pumps, double acting, self- | |
| Presses, tincture, druggists' | 908 | Propeller pumps | 920 | Pulleys, veritable speed | 912 | measuring | 917 |
| Presses, tissue paper print- | | Propeller wheels | 1194 | Pulleys, wood rim | 912 | Pumps, dredging (sand & | |
| ing | 908 | Propelling & repelling chalk | | Pulleys, wrought steel | 912 | dredging) | 920 |
| Presses, tobacco | 908 | pencils | 818 | Pulleys & stands, band saw | | Pumps, electric | 917 |
| Presses, toggle | 908 | Prospecting hand or power | | Pulling jacks | 563 | Pumps, elevator | 917 |
| Presses, treadle | 908 | drills | 325 | Pulls, closet | 912 | Pumps, fan & stuff | 917 |
| Presses, trimming | 908 | Prospecting machinery | 656 | Pulls, door | 912 | Pumps, filter press | 917 |
| Presses, veneer | 908 | Prospecting mills | 780 | Pulls, drawer | 913 | Pumps, fire (see pumps, | |
| Presses, vulcanizing | 908 | Protected hose | 540 | Pulls, screen door | 913 | steam). | |
| Presses, warp | 1128 | Protecting metal, asbestos | 36 | Pulp, asbestine | 913 | Pumps, force & lift | 917 |
| Presses, waste | 908 | Protecting strip, asphalt | | Pulp, asbestos, miners' & | | Pumps, gas, compressing | 917 |
| Presses, wheel (see presses, | | paving | 37 | mfrs. | 36 | Pumps, gas engine starting | 918 |
| hydraulic wheel). | | Protecting tape, Manson | 1111 | Pulp board washers | 1185 | Pumps, gas fitters' proving | 918 |
| Presses, wine & cider | 908 | Protective devices, electric | 352 | Pulp making machinery, | | Pumps, gas main force | 918 |
| Presses, wiring | 909 | Protectors, arc lamp (hoods | | canners' | 654 | Pumps, gasoline | 918 |
| Presses, wood printing | 909 | & protectors) | 536 | Pulp stones (huller & pulp) | 1091 | Pumps, gauge testing (see | |
| Presses, wood pulp | 909 | Protectors, boiler blow off | 70 | Pulp washing machines | 656 | gauge testing apparatus). | |
| Pressing machines, cloth | 1119 | Protectors, check | 222 | Pulpit & altar rails | 913 | Pumps, geared | 918 |
| Pressing machines, tailors' | 668 | Protectors, pole | 900 | Pulpits, brass (altar rails & | | Pumps, geared, oil or water | 918 |
| Pressure blowers | 69 | Protectors, smoke | 909 | pulpits) | 89 | Pumps, ham preserving | 918 |
| Pressure blowers, positive | 69 | Protectors, telephone | 1114 | Pulverize & roller com- | | Pumps, hydraulic | 918 |
| Pressure blowers, rotary | 69 | Protectors & hoods, arc lamp | 536 | bined | 949 | Pumps, hydraulic dredging | 918 |
| Pressure filters (gravity & | | Protractors | 909 | Pulverizers, asphalt (crush- | | Pumps, hydraulic elevator | |
| pressure) | 434 | Protractors, meter | 769 | ers & pulverizers) | 37 | service | 918 |
| Pressure gauges, gas record- | | Proving pumps, hydraulic | 918 | Pulverizers & harrows | 516 | Pumps, hydraulic proving | 918 |
| ing | 468 | Pruners, tree (see shears, | | Pulverizing machinery | 656 | Pumps, hydraulic transmis- | |
| Pressure governors | 484 | pruning). | | Pumice brick, purified | 913 | sion | 918 |
| Pressure recording gauges | 469 | | | Pumice stone importers | 913 | Pumps, intensifier | 918 |
| | | | | Pumicing machines, worsted | 1128 | Pumps, irrigating | 918 |
| | | | | Pump buckets | 114 | Pumps, jet | 336 |

| | Page | | Page | | Page | | Page |
|---|------|--|------|---|------|---|------|
| Pumps, juice | 918 | Punches, spring | 925 | Quartering machines | 608 | Rail hangers (hinge & rail) | 503 |
| Pumps, laboratory vacuum | 918 | Punches, ticket (see punches, conductors' ticket) | | Quartermasters' Dept., U. S. army | 926 | Rail joints | 928 |
| Pumps, lever | 918 | Punches, tie plate | 925 | Quartz mills | 780 | Rail joints, continuous | 929 |
| Pumps, lubricator (see lubricators, pump) | | Punches, track | 925 | Quicksilver elevators | 374 | Rail loaders | 586 |
| Pumps, manhole & pile sinking | 918 | Punches & dies, compound & ship yard | 925 | Quicksilver producers | 926 | Rail planers | 825 |
| Pumps, marine (see pumps, steam) | | Punches & shears, beam | 1038 | Quill winders | 1133 | Rail punching machines | 658 |
| Pumps, measuring | 918 | Punches & shears, combined | 1038 | Quillers | 1128 | Rail sawing machines | 658 |
| Pumps, mine | 919 | Punching bag swivels | 1103 | Quills | 1128 | Rail saws | 1018 |
| Pumps, oil | 919 | Punching, beveling & trimming machines | 657 | Quilt frame clamps | 227 | Rail screws | 1029 |
| Pumps, oil, for machine tools | 919 | Punching dies | 312 | Quilt winds | 1133 | Rail screws, hand | 1028 |
| Pumps, oil, rotary | 919 | Punching machines, boiler-makers' | 657 | Quoits & dumb bells | 332 | Rail straightening presses | 907 |
| Pumps, paper mill | 919 | Punching machines, disc | 657 | | | Rail tongs | 1142 |
| Pumps, papermakers' fan | 919 | Punching machines, foot | 639 | R | | Rail & shop saws | 1018 |
| Pumps, pitcher spout | 919 | Punching machines for light metal, paper, etc. | 657 | Rack cutters | 302 | Railing fittings, brass pipe | 441 |
| Pumps, plumbers' | 919 | Punching machines, gang | 657 | Rack cutting machines | 658 | Railing posts, brass | 902 |
| Pumps, plumbers' force | 919 | Punching machines, horizontal | 657 | Rack machine | 618 | Railings, bank & office | 46 |
| Pumps, plunger | 919 | Punching machines, hydraulic | 657 | Racks, automobile baggage | 926 | Railings, bridge | 109 |
| Pumps, pneumatic | 919 | Punching machines, hydraulic manhole | 657 | Racks, baggage | 926 | Railings, bronze (see bronze, architectural) | |
| Pumps, power | 919 | Punching machines, I-beam | 657 | Racks, bicycle | 927 | Railings, cemetery | 216 |
| Pumps, private water works | 919 | Punching machines, leather | 645 | Racks, cable | 927 | Railings, iron & brass pipe | 929 |
| Pumps, propeller | 920 | Punching machines, multiple | 657 | Racks, cut | 927 | Railings & fences, iron | 556 |
| Pumps, quarry | 920 | Punching machines, paper | 651 | Racks, fire hose (reels & racks) | 939 | Railroad ballast | 45 |
| Pumps, railroad force | 920 | Punching machines (printing & punching) | 656 | Racks, folding, hat & coat rooms | 927 | Railroad beds, metal | 55 |
| Pumps, reciprocating | 920 | Punching machines, rail | 658 | Racks for cold storage | 927 | Railroad bridge guards | 498 |
| Pumps, reclamation | 920 | Punching machines, screw | 657 | Racks, hat, coat & towel | 927 | Railroad brushes | 112 |
| Pumps, revolving | 920 | Punching machines, stiles | 907 | Racks, hay, folding | 517 | Railroad car pile drivers | 820 |
| Pumps, rotary | 920 | Punching presses | 907 | Racks, insulated | 927 | Railroad cars, gasoline | 188 |
| Pumps, rotary oil | 919 | Punching presses, hand power | 907 | Racks, machine | 927 | Railroad carts | 192 |
| Pumps, sand feed stone sawing | 920 | Punching & cutting machines, combined | 634 | Racks, mining machine | 927 | Railroad castings | 204 |
| Pumps, sand & dredging | 920 | Punching & press table combined, boiler-makers' | 71 | Racks, oven | 927 | Railroad chains | 219 |
| Pumps, screw | 920 | Punching & shearing machinery | 657 | Racks, portable forge | 927 | Railroad contractors | 269 |
| Pumps, ship & deck | 920 | Punching & shearing machines, combined | 658 | Racks, postal bag | 927 | Railroad contractors' tents | 115 |
| Pumps, sinking | 920 | Punching & shearing machines, double end | 658 | Racks, tool | 927 | Railroad cross tie machines | 658 |
| Pumps, size | 921 | Punching & shearing machines, manhole | 658 | Racks, towel | 927 | Railroad curves | 929 |
| Pumps, spray | 921 | Punching & shearing machines, plate work | 658 | Racks, wine bottle | 927 | Railroad ditching machines | 635 |
| Pumps, steam | 921 | Puncture alarms | 8 | Racks & reels, fire hose | 939 | Railroad dumping cars | 187 |
| Pumps, steam turbine | 921 | Purified pumice brick | 913 | Radial chimney blocks, perforated | 222 | Railroad equipments, second hand | 929 |
| Pumps, sugar house | 921 | Purifiers, feed water | 925 | Radial cutters | 302 | Railroad excavators | 426 |
| Pumps, syphon | 922 | Purifiers & scrubbers, gas | 925 | Radial drills | 326 | Railroad force pumps | 920 |
| Pumps, tank | 922 | Purifying apparatus, boiler | 71 | Radial light holders | 535 | Railroad hand torches | 1148 |
| Pumps, tar | 922 | Purifying filtering plants installed | 434 | Radiator bronze | 110 | Railroad manilla & writing paper | 816 |
| Pumps, test | 922 | Purple roofing slate | 997 | Radiator chaplets | 221 | Railroad or spike mauls | 767 |
| Pumps, tire | 922 | Push buttons | 925 | Radiator discs | 313 | Railroad picks | 820 |
| Pumps, triplex | 922 | Push car wheels | 1193 | Radiator dust catchers | 927 | Railroad settees | 1032 |
| Pumps, turbine | 922 | Push cars (hand & push) | 188 | Radiator enamels | 376 | Railroad spike screw drivers | 1026 |
| Pumps, vacuum | 922 | Push carts (see hand carts) | | Radiator loop milling, drilling & tapping machines | 647 | Railroad splice bars (see rail braces & fastenings) | |
| Pumps, water works | 922 | Push plates (kick & push) | 831 | Radiator nipples | 792 | Railroad stationery, blanks, manifests, etc. | 929 |
| Pumps, windmill | 923 | Push switches (snap or push) | 1102 | Radiator screens, ornamented | 927 | Railroad supplies | 929 |
| Pumps, wrecking | 923 | Pushers or movers, car | 182 | Radiator shields | 927 | Railroad switches, automatic | 1101 |
| Pumps & boilers, combined | 923 | Putty knives | 569 | Radiator tops, slate | 1052 | Railroad tents, contractors' | 1115 |
| Punch presses, saw teeth cutting | 907 | Putty mfrs. | 926 | Radiator union nipple clutch | 927 | Railroad ties (see ties, poles & posts) | |
| Punch & die grinding machines | 657 | Putty mfrs., roof | 955 | Radiator valve wheels, wood | 1195 | Railroad ties, concrete steel | 1135 |
| Punch & shear combined, hand power | 923 | Putty mfrs., stove makers' | 926 | Radiator valves | 1170 | Railroad ties, steel | 1136 |
| Punch & shear for band saw | 923 | Putty ornaments (see ornaments, composition) | | Radiator valves, automatic air (see valves, air) | 1170 | Railroad track scales | 1021 |
| Punch & straightener, combined | 923 | Putty powder | 926 | Radiator valves, corner | 1170 | Railroad track spikes | 1057 |
| Punch & chain links & chain | 217 | Pyralin mfrs. (celluloid, fiberloid & pyralin) | 207 | Radiators, electric car (see heaters, electric car) | | Railroad track tools | 1145 |
| Punch & nut machines, cold | 631 | Pyrite & sulphur burners | 177 | Radiators, gas | 927 | Railroad transfer tables, electric | 1149 |
| Punches, beam | 1038 | Pyrites furnaces | 457 | Radiators, hot water & steam | 927 | Railroad velocipedes (see cars, velocipede) | |
| Punches, belt | 923 | Pyrites of iron | 926 | Radiators, sheet metal | 928 | Railroad water columns or stations | 1186 |
| Punches, blacksmiths' | 923 | Pyrographic needles | 926 | Radiators, stove pipe | 928 | Railroad water tanks | 1109 |
| Punches, boiler (see punching machines, boiler-makers') | | Pyrometers | 926 | Radiators, water cooling | 928 | Rails, barn door | 933 |
| Punches, boiler-makers' | 923 | Pyrometers, recording | 924 | Radius planer attachments | 928 | Rails, bridge steel | 109 |
| Punches, butchers' saw, etc | 923 | | | Rafter brackets | 88 | Rails, door | 933 |
| Punches, button hole | 923 | Q | | Rafting augers | 38 | Rails, girder & high tee | 934 |
| Punches, center & prick | 923 | Quarries | 926 | Rafting chains | 219 | Rails, hand, steel | 500 |
| Punches, conductors' ticket, etc. | 924 | Quarries, granite (see granite producers) | | Rafting dogs | 315 | Rails, hand & foot | 934 |
| Punches, drill | 924 | Quarries, stone (see stone producers, workers & dealers) | | Rafts, life | 583 | Rails, light | 934 |
| Punches, drive | 924 | Quarry bars | 50 | Rag cutter knives | 569 | Rails, pulp & altar | 913 |
| Punches, embossing | 924 | Quarry blocks | 67 | Rag cutters | 1121 | Rails, relaying (see railroad equipment, second hand) | |
| Punches, flue shearing | 924 | Quarry cars | 191 | Rag dusters | 1122 | Rails, sliding door | 934 |
| Punches for beams | 924 | Quarry chains | 219 | Rag machinery | 1128 | Rails, steel | 934 |
| Punches for ornamental iron work | 924 | Quarry chains (coal mine & quarry) | 217 | Rag pickers | 1128 | Rails, tram (see rails, light) | |
| Punches for scrolls | 924 | Quarry dump boxes | 86 | Rag or shoddy pickers | 1128 | Railway builders, marine | 752 |
| Punches, gang (see punching machines, multiple) | | Quarry hoists | 534 | Rail anchors | 10 | Railway cattle guards | 497 |
| Punches, gasket | 924 | Quarry machinery & supplies | 658 | Rail benders | 928 | Railway chains, marine | 219 |
| Punches, hand | 924 | Quarry pumps | 920 | Rail bending & straightening machines | 658 | Railway contractors, electric | 252 |
| Punches, hand & tube hole | 924 | Quarry & brick nozzles | 793 | Rail blocks | 67 | Railway crossing gates | 467 |
| Punches, hog ring | 924 | Quarter sawed oak veneers | 1176 | Rail bond testers (see instruments, electrical testing & measuring) | | Railway crossing signals | 1045 |
| Punches, hydraulic (see punching machines, hydraulic) | 924 | | | Rail bonding, soldering apparatus for | 1055 | Railway crossings | 297 |
| Punches, paper | 924 | | | Rail bonds | 928 | Railway cycles (see cars, velocipede) | |
| Punches, pin | 924 | | | Rail braces & fastenings | 928 | Railway feeders, aluminum | 430 |
| Punches, pneumatic | 898 | | | Rail buck staves | 928 | Railway fittings | 442 |
| Punches, power (see machinery, punching & shearing) | | | | Rail chairs | 221 | Railway flags, signal | 443 |
| Punches, revolving | 925 | | | Rail clamps | 227 | Railway heads | 1123 |
| Punches, round or saddlers' | 925 | | | Rail cutting machines | 658 | Railway lamps | 574 |
| Punches, saw | 925 | | | Rail drill bits | 65 | Railway lanterns | 575 |
| Punches, sheet metal | 925 | | | Rail ending machines | 658 | Railway mail catchers | 744 |
| Punches, solid | 925 | | | Rail forks | 440 | Railway motor controllers | 273 |
| | | | | Rail frogs, spring | 453 | Railway motors, electric, single phase | 787 |

| | Page | | Page | | Page | | Page |
|--|------|--------------------------------------|------|---|------|--|------|
| Railway palace car spring hinges | 934 | Ratchets, deck sash | 936 | Recording gauges, gas pressure | 468 | Refrigerator hinges | 530 |
| Railway poles | 934 | Ratchets, fence | 936 | Recording hydraulic gauges | 468 | Refrigerator latches | 575 |
| Railway signal flags | 443 | Ratchets, packer | 936 | Recording machines, ice | 643 | Refrigerator linings & shelves, slate | 1052 |
| Railway signal fuses & torpedoes | 1148 | Rathes, beaming | 1117 | Recording pressure gauges | 469 | Refrigerator pans | 815 |
| Railway signal posts | 902 | Rattan brooms | 111 | Recording pyrometers | 926 | Refrigerator tanks, porcelain lined | 1109 |
| Railway signal torpedoes & fuses | 1148 | Rattan knives | 569 | Recording, railway speed | 1057 | Refrigerator & cold storage insulation | 546 |
| Railway signals, electric | 1045 | Rattan mats & matting | 766 | Recording tide gauges | 469 | Refrigerators | 939 |
| Railway speed recorders | 938 | Rattan seat covering, canvas lined | 936 | Recording vacuum gauges | 469 | Refrigerators, glass | 940 |
| Railway speed recording | 1057 | Rattan weaving machinery | 658 | Recording wattmeters, pre-payment | 1188 | Refrigerators & cooling rooms | 940 |
| Railway steam traps | 1150 | Rattan & reed furniture | 459 | Recorder & puller | 910 | Refrigerators & cooling rooms, glass lined | 940 |
| Railway supplies, electric | 934 | Rattan & reed works | 937 | Rectifiers, mercury arc | 938 | Refrigerators & cooling rooms, tile lined | 940 |
| Railway switch locks | 1101 | Rattans, reeds & chair cane | 937 | Red blanket crochet machines | 1121 | Refrigerators & cooling rooms, white wood lined | 940 |
| Railway switches, industrial | 1102 | Rattlers, flue | 937 | Red cedar doors, wholesale | 320 | Refuse burners | 177 |
| Railway system, single phase | 1047 | Rattlers, nail | 937 | Red cedar shingles | 1041 | Regenerating gas furnaces | 457 |
| Railway tips or caps | 1140 | Rattles, foundry | 937 | Red granite producers | 485 | Regenerative welding furnaces | 458 |
| Railway track drills | 326 | Ravelers | 1128 | Red lead mfrs | 1197 | Register frames or borders, slate | 1052 |
| Railway track laying machines | 658 | Raveling machines, yarn | 1128 | Red marking chalk | 221 | Register valves | 1170 |
| Railway tracks, portable (see railways, portable & industrial) | | Rawbone, bolted | 937 | Red oil mfrs | 796 | Registering machines | 658 |
| Railway transfer tables (see turn & transfer tables) | | Rawbone, granulated | 937 | Red roofing slate | 997 | Registers, autographic | 940 |
| Railway turntables, industrial | 1160 | Rawhide apron, leather | 1117 | Red & white arsenic | 36 | Registers, car fare | 940 |
| Railway & carriage varnishes | 1174 | Rawhide baskets | 51 | Redrawing frames | 1123 | Registers, cash | 940 |
| Railways, automatic | 38 | Rawhide belting mfrs. | 62 | Reducing machines (see swaging machines) | | Registers, elevator | 368 |
| Railways, cable | 178 | Rawhide belting mfrs., canvas center | 62 | Reducing presses | 907 | Registers, furnace | 940 |
| Railways, gravity | 935 | Rawhide gears & pinions | 473 | Reducing wheels | 938 | Registers, gas heating & ventilating | 940 |
| Railways, incline (see stairways, moving) | | Rawhide mallets | 744 | Reduction machinery, ore | 650 | Registers, grain | 940 |
| Railways, industrial & portable | 935 | Rawhide mauls | 767 | Reducers, stroke | 938 | Registers, hand tally | 940 |
| Railways, marine (see dry docks & marine railways) | | Rawhide packing | 804 | Reed furniture (rattan & reed) | 459 | Registers, hot air | 940 |
| Railways, miniature | 935 | Razor hones | 535 | Reed hooks | 1124 | Registers, hot water | 940 |
| Railways, miniature (locomotives & railways) | 591 | Razor mfrs. | 937 | Reed & rattan works | 937 | Registers, stove pipe | 940 |
| Rain aprons | 11 | Razzele dazzles | 937 | Reeds | 1128 | Regrinding valves | 1170 |
| Rain gauges | 469 | Reading lamps, gas & electric light | 464 | Reel spindles | 1130 | Regulating valves (see regulators) | |
| Raisin seeders | 1030 | Ready roofing asphalt | 992 | Reel & wire straighteners, combined | 938 | Regulators, controller, electric railway | 940 |
| Raising machines, panel | 650 | Reamer bits | 65 | Reels | 1128 | Regulators, damper | 940 |
| Rake handle lathes (see rake handle machinery) | | Reamer cutters (tap & reamer) | 303 | Reels, blasting cable | 938 | Regulators, dynamo field | 941 |
| Rake handle machinery | 658 | Reamer wrenches (tap & reamer) | 1214 | Reels, centrifugal | 938 | Regulators, electric | 941 |
| Rake rods | 948 | Reamer & cutter grinders | 495 | Reels, chalk line | 938 | Regulators, fan engine | 941 |
| Rake & tedder teeth | 935 | Reamer & drill taps, combined | 1112 | Reels, clothes line | 938 | Regulators, feed water | 941 |
| Rakes, asphalt or tar | 935 | Reamer & tap wrenches | 1214 | Reels, fire hose | 939 | Regulators, furnace | 941 |
| Rakes, drag | 935 | Reamers | 937 | Reels, fishing | 938 | Regulators, gas pressure | 941 |
| Rakes, garden or lawn, etc. | 935 | Reamers, adjustable | 937 | Reels, garden hose | 938 | Regulators, heat | 941 |
| Rakes, gas retort | 935 | Reamers, bibb & bibb seat | 937 | Reels, hexagon | 938 | Regulators, hot water | 941 |
| Rakes, hand, hay | 935 | Reamers, bit brace | 937 | Reels, mason | 938 | Regulators, hydraulic | 941 |
| Rakes, revolving, hay | 935 | Reamers, bridge | 937 | Reels, payout | 938 | Regulators, moisture | 941 |
| Rakes, side delivery hay | 935 | Reamers, burring | 937 | Reels, scalpings | 939 | Regulators, organ | 941 |
| Rakes, stacker, for threshers | 935 | Reamers, center | 937 | Reels, sifter bolting | 939 | Regulators, pressure | 941 |
| Rakes, stalk | 935 | Reamers, chucking | 937 | Reels, sizing | 939 | Regulators, pressure, for cane mills | 942 |
| Rakes, sulky, hay | 936 | Reamers, expansion | 937 | Reels, skeining & measuring | 1128 | Regulators, pump | 942 |
| Rakes, sweep | 936 | Reamers, hand | 937 | Reels, steel | 939 | Regulators, rheostat | 942 |
| Ram rods | 948 | Reamers, locomotive | 937 | Reels, wire | 939 | Regulators, slasher | 942 |
| Rammers, concrete pneumatic | 895 | Reamers, Morse taper | 937 | Reels, yarn | 1128 | Regulators, speed | 942 |
| Rammers, foundry | 934 | Reamers or tap borers, lead pipe | 937 | Reels, racks, fire hose | 939 | Regulators, steam engine (see governors, steam engine) | |
| Rammers, pneumatic sand | 898 | Reamers, pipe | 1113 | Re-enforced concrete steel construction | 245 | Regulators, steam heat, for train service | 942 |
| Rammers, sand | 934 | Reamers, rivet hole | 938 | Re-enforcing materials, concrete | 245 | Regulators, steam & hot water | 942 |
| Rams, hydraulic | 541 | Reamers, shell | 938 | Re-enforcing materials, concrete, steel | 245 | Regulators, stoker equipment | 942 |
| Rams & rods, steel hammer | 949 | Reamers, solid | 938 | Reeve's variable system of speed transmission | 1057 | Regulators, tank, hot water | 942 |
| Rand knives | 569 | Reamers, square | 938 | Refilling & excavating machinery | 638 | Regulators, temperature (see regulators, heat) | |
| Range boiler stands | 72 | Reamers, taper | 938 | Refined sulphur | 1099 | Regulators, voltage | 942 |
| Range boiler steel | 1074 | Reamers, valve reseating | 938 | Refineries, sugar | 1099 | Regulators, water pressure | 942 |
| Range boilers, copper | 72 | Reamers & taps, pipe | 1113 | Refiners, benzol | 63 | Regulators, water wheel (see governors, water wheel) | |
| Range boilers, galvanized iron | 72 | Reaming machines | 658 | Refiners, copper | 278 | Regulators, windmill | 942 |
| Range boilers, seamless pressed steel | 72 | Reaming machines, gun barrel | 641 | Refiners, electrolytic | 366 | Reheaters, air | 942 |
| Range fenders | 936 | Reaming & tapping drills, pneumatic | 898 | Refiners, gasoline | 465 | Reheating furnaces | 457 |
| Range lining (see stove lining) | | Reaper guards (mower & reaper) | 497 | Refiners, naphtha | 792 | Re-inforced asbestos corrugated sheathing | 36 |
| Range, water closet | 1186 | Reaper knives (mower & reaper) | 568 | Refiners & miners, asphalt | 37 | Re-inforced cement sewer pipe mfrs. | 1033 |
| Ranges, acetylene gas | 936 | Reaper sections (mower & reaper) | 788 | Refiners & miners, graphite | 490 | Re-inforced concrete bridges | 109 |
| Ranges, French cooking (see cooking apparatus) | | Reaper sickles | 1045 | Refiners & smelters | 1053 | Re-inforced concrete engineers | 411 |
| Ranges, galley | 936 | Reaper & mower guards | 497 | Refining plants, lead | 582 | Re-inforcing metals | 942 |
| Ranges, gas (see stoves, heating & ranges, gas) | | Reaper & mower sections | 788 | Reflectors, electric light (shades & reflectors) | 1034 | Relay shells, telephone | 1114 |
| Ranges, kettle | 936 | Reapers & mowers | 788 | Reflectors, enameled iron | 939 | Relaying rails (see railroad equipments, second hand) | |
| Ranges, portable & stationary | 936 | Reboring, cylinder | 304 | Reflectors for art galleries | 939 | Relays for electrical contact | 942 |
| Ranges, steel | 936 | Rebuilt locomotives | 591 | Reflectors for churches, halls etc. | 939 | Releasing hooks for Davits | 537 |
| Ranges, yacht | 936 | Receivers, air | 8 | Reflectors for daylight | 939 | Relief cocks | 236 |
| Rapping plates | 831 | Receivers, ammonia liquid | 938 | Reflectors, glass & porcelain (see shades, glass & porcelain) | | Relief valves | 1170 |
| Rapping plates & lifting screws | 936 | Receivers & shells, telephone | 1114 | Reflectors, metallic (shades & reflectors) | 1034 | Reloading tools (gun cleaning & reloading) | 1144 |
| Rare metals | 769 | Receiving safes | 1001 | Reflectors, mirror (shades & reflectors) | 1034 | Remnants, cotton | 942 |
| Rashel machines | 1128 | Receptacles | 938 | Reflectors, oil lamp | 939 | Remover, lead joint | 581 |
| Rasp & file mfrs. | 433 | Reciprocating pumps | 920 | Reflectors, window | 939 | Rendering machinery | 658 |
| Rasp, horse | 930 | Reclaimed rubber | 1000 | Reflector & shades, electric light | 1034 | Rendering tanks | 1109 |
| Rat & mouse traps | 1150 | Reclamation machinery | 658 | Reflector & shades, mirror | 1034 | Renewable seat valves | 1170 |
| Ratchet brake handles | 501 | Reclamation pumps | 920 | Refrigerating machines (ice & refrigerating) | 643 | Renewing, file | 433 |
| Ratchet drills | 226 | Reclining chairs | 221 | Refrigerator cars | 191 | Renovator, varnish | 1174 |
| Ratchet drills, mine | 325 | Record holders, wire, phonograph | 938 | Refrigerator cocks | 236 | | |
| Ratchet handles | 501 | Recorders, cash | 938 | Refrigerator door springs | 1061 | | |
| Ratchet jacks | 563 | Recorders, moscrop, continuous speed | 938 | | | | |
| Ratchet wrenches | 1214 | Recorders, pressure & speed | 938 | | | | |

| | Page | | Page | | Page | | Page |
|---|------|---|----------|--|------|--|-----------|
| Renovators, church, school & theatre..... | 942 | Ribbon solder rolls..... | 955 | Rivet set & header..... | 944 | Rock crushers (see rock & ore crushers)..... | |
| Renovators, stone..... | 1091 | Ribbon wipers..... | 1132 | Rivet sets..... | 944 | Rock drill cylinders..... | 304 |
| Repair cars, trolley..... | 192 | Ribbons, multigraph..... | 789 | Rivet spinning machines..... | 659 | Rock drill sharpening machines..... | 659 |
| Repair cements, plumbers'..... | 215 | Ribbons, typewriter..... | 1161 | Rivet, staple & screw wire..... | 1206 | Rock drill sharpening tools..... | 1146 |
| Repair kits, tire..... | 1140 | Rice binders..... | 943 | Rivet & hoop applying machines..... | 659 | Rock drilling spoons..... | 1058 |
| Repair parts, cement mill..... | 213 | Rice cleaning machinery (see coffee & rice cleaning machinery)..... | | Rivet & staple setting machines..... | 659 | Rock drills, electric..... | 324 |
| Repairers, elevator..... | 368 | Rice clipping machines (oats & rice clipping)..... | 649 | Riveted keys..... | 565 | Rock drills, gasolne..... | 326 |
| Repairing, pneumatic tool..... | 899 | Rice harvesters..... | 517 | Riveted steel pipe..... | 822 | Rock drills, hand..... | 326 |
| Repairs, electrical machinery..... | 942 | Rice hullers (coffee & rice)..... | 541 | Riveters, alligator, pneumatic..... | 895 | Rock drills, pneumatic..... | 898 |
| Repeater, numbering machines..... | 1127 | Rice mill machinery..... | 658 | Riveters, belting & harness repairing, etc..... | 944 | Rock drills, steam..... | 326 |
| Repeaters, card, Jacquard..... | 1119 | Rice mills..... | 780 | Riveters, compression, pneumatic..... | 895 | Rock face siding, steel..... | 1071 |
| Repelling, calk pencils (propelling & repelling)..... | 818 | Rice planting drills..... | 326 | Riveters, hand power..... | 944 | Rock hand drills..... | 326 |
| Replacers, car..... | 942 | Rice shoes, brewers..... | 943 | Riveters, hydro pneumatic..... | 897 | Rock phosphate..... | 819 |
| Replacing frogs..... | 453 | Rice threshers..... | 1134 | Riveters, lattice column, pneumatic..... | 897 | Rock salt mfrs..... | 946 |
| Re-sawing machines, band..... | 619 | Rice & coffee cleaning machinery..... | 631 | Riveters, pneumatic..... | 897 | Rock, trap..... | 1149 |
| Re-sawing machines, horizontal..... | 658 | Rice & coffee hulling machinery..... | 658 | Riveters, pneumatic, alligator..... | 895 | Rock wool (see mineral wool mfrs.)..... | |
| Re-seating machines..... | 658 | Rice & coffee plantation machinery..... | 631 | Riveters, pneumatic, compression..... | 895 | Rock & coal drills..... | 323 |
| Re-seating machines, faucet or bibb..... | 638 | Rice's mill white..... | 770 | Riveters, pneumatic jam..... | 897 | Rock & ore conveyors..... | 276 |
| Re-seating machines, valve..... | 671 | Rickerts, hay (see rakes, sweep hay)..... | | Riveters, pneumatic lattice column..... | 897 | Rock & ore crushers..... | 946 |
| Reservoirs, air brake, etc..... | 942 | Riddles, foundry..... | 943 | Riveters, pneumatic yoke..... | 900 | Rocking grates..... | 491 |
| Resin (see rosin)..... | | Riddles, miners'..... | 943 | Riveting cranes..... | 295 | Rocking valve engines..... | 421 |
| Resistance blocks..... | 942 | Riddles & sieves..... | 943 | Riveting hammers..... | 500 | Rod couplings..... | 291 |
| Resistance boxes (see rheostats)..... | | Ridings, globe ventilated..... | 943 | Riveting hammers, rotary..... | 500 | Rod cutter (chaplet pointer & rod cutter)..... | 221 |
| Resistance coils..... | 238 | Riding galleries, steam (see carousels, organs, etc.)..... | | Riveting machines, fire door..... | 659 | Rod cutters..... | 302 & 303 |
| Resistance rods, graphite..... | 948 | Rifles, air..... | 943 | Riveting machines, harness..... | 642 | Rod-heads..... | 517 |
| Resistance rods & carbons..... | 942 | Rifles, guns, etc..... | 943 | Riveting machines, hoop..... | 659 | Rod nuts..... | 795 |
| Resistance units..... | 942 | Rim bending machines..... | 658 | Riveting machines, hydraulic lifting..... | 659 | Rod or bar drawing machines..... | 659 |
| Resistance wire..... | 1205 | Rim forming machines, automatic..... | 658 | Riveting machines, hydraulic lifting..... | 659 | Rod, pin & dowel machines..... | 659 |
| Resistances, standard..... | 942 | Rim machines (see hub, spoke & rim machinery)..... | | Riveting machines, hydraulic lifting..... | 659 | Rod, stove & bolt nuts..... | 795 |
| Respirators..... | 942 | Rim polishing machines..... | 658 | Riveting machines, pneumatic (see pneumatic riveters)..... | | Rod & bar cutters, iron..... | 302 |
| Retainers, ball..... | 45 | Rims, automobile..... | 943 | Riveting machines, portable..... | 659 | Rod & guide cups, locomotive..... | 589 |
| Retarder, stucco..... | 1097 | Ring augers..... | 38 | Riveting machines, portable..... | 659 | Rod & tube pointing machines..... | 659 |
| Re-toothers, saw..... | 1016 | Ring benders..... | 63 | Riveting machines, spoke..... | 659 | Rod & wire cutters..... | 303 |
| Retorts, cast iron..... | 942 | Ring dogs..... | 315 | Riveting machines, steam..... | 659 | Rods, aluminum..... | 947 |
| Retorts, chemical..... | 942 | Ring forming machines, automatic..... | 658 | Riveting machines, wheel..... | 659 | Rods, anchor..... | 947 |
| Retorts, gas..... | 942 | Ring gauges (plug & ring)..... | 469 | Riveting presses..... | 907 | Rods, Bessemer coppered..... | 947 |
| Retorts, gold & silver melting..... | 943 | Ring machinery..... | 658 | Riveting tools (see pneumatic riveters)..... | | Rods, black steel..... | 947 |
| Retorts, wood alcohol..... | 943 | Ring oiling device twister..... | 1132 | Riveting tower cranes..... | 295 | Rods, brace..... | 947 |
| Return bends..... | 63 | Ring oiling hangers..... | 504 | Rivets, aluminum..... | 945 | Rods, bracket..... | 947 |
| Reversible car seats..... | 1030 | Ring packing..... | 804 | Rivets, barrel..... | 945 | Rods, brake lever connecting..... | 947 |
| Reversible crane controllers..... | 273 | Ring spinning frames..... | 1123 | Rivets, belt & hose..... | 945 | Rods, brass & copper..... | 947 |
| Reversible friction electric hoists..... | 533 | Ring travelers..... | 1131 | Rivets, boiler & tank..... | 945 | Rods, bridge & structural..... | 945 |
| Reversible road rollers..... | 950 | Ring & loop machinery..... | 658 | Rivets, brass & copper..... | 945 | Rivets, car..... | 945 |
| Reversible sulky plows..... | 835 | Ringers, hog..... | 943 | Rivets, bridge & structural..... | 945 | Rivets, coopers'..... | 945 |
| Reversible window sash..... | 1200 | Ringling apparatus, telephone..... | 1114 | Rivets, car..... | 945 | Rivets, galvanized..... | 945 |
| Reversible & hillside swivel plows..... | 835 | Rings, bobbin..... | 1117 | Rivets, German silver..... | 945 | Rivets, hame..... | 945 |
| Reversing air or gas valves..... | 1170 | Rings, brass..... | 943 | Rivets, hinge..... | 945 | Rivets, hose..... | 945 |
| Reversing engines..... | 421 | Rings, brass..... | 943 | Rivets, hose..... | 945 | Rivets, Norway iron..... | 945 |
| Reversing gear..... | 472 | Rings, bridge..... | 109 | Rivets, ornamental steel..... | 945 | Rivets, pronged..... | 945 |
| Reversing motor switches..... | 1102 | Rings, clinch..... | 944 | Rivets, structural..... | 945 | Rivets, ship (see rivets, boiler & tank)..... | |
| Reversing valves..... | 1170 | Rings, clinch..... | 944 | Rivets, tank..... | 945 | Rivets, shovel..... | 945 |
| Revolution counters (see indicators, speed)..... | | Rings, enameled..... | 375 | Rivets, tinners'..... | 946 | Rivets, stove..... | 946 |
| Revolver mfrs. (see rifles, guns, etc.)..... | | Rings, fruit jar (see rubbers, fruit jar)..... | | Rivets, tire..... | 946 | Rivets, tubular..... | 946 |
| Revolving buddles or slime tables..... | 114 | Rings, furnace casing..... | 944 | Rivets, wire..... | 946 | Road cars, pole..... | 191 |
| Revolving chairs..... | 221 | Rings, grommet..... | 944 | Road levers..... | 946 | Road locomotives..... | 591 |
| Revolving chimney tops..... | 222 | Rings, harness, etc. (see hardware mfrs., saddlery)..... | | Road machines & graders..... | 946 | Road making machinery..... | 659 |
| Revolving chucks..... | 225 | Rings, hitching..... | 944 | Road rollers (see rollers, various kinds)..... | | Road rollers, horse power..... | 950 |
| Revolving derricks..... | 309 | Rings, hog & bull..... | 944 | Road rollers, reversible..... | 950 | Road rollers, steam..... | 951 |
| Revolving doors..... | 320 | Rings, key..... | 944 | Road scarifiers..... | 946 | Road scrapers, drag & wheel..... | 946 |
| Revolving doors, fireproof..... | 320 | Rings, net..... | 944 | Road spreading carts..... | 193 | Roads, macadam (see contractors, general)..... | |
| Revolving dryers..... | 331 | Rings, open..... | 944 | Roasters, coffee & peanut..... | 946 | | |
| Revolving fireproof doors..... | 320 | Rings, plate (hooks & rings)..... | 527 | Roasters, gas, for coffee..... | 238 | | |
| Revolving flat cards..... | 1119 | Rings, pole..... | 944 | Roasting furnaces..... | 457 | | |
| Revolving forge furnaces..... | 457 | Rings, rubber..... | 944 | Roasting kilns..... | 566 | | |
| Revolving hay rakes..... | 935 | Rings, rubber (packers & rings)..... | 1000 | Robie jacks..... | 563 | | |
| Revolving pans, steam..... | 815 | Rings, screw..... | 944 | Rock anchors..... | 10 | | |
| Revolving pantry windows..... | 813 | Rings, shower bath..... | 944 | Rock conveyors..... | 276 | | |
| Revolving pumps..... | 920 | Rings, shutter..... | 944 | Rock crusher castings..... | 204 | | |
| Revolving punches..... | 925 | Rings, spinning..... | 1130 | Rock crusher parts (see castings, rock crusher)..... | | | |
| Revolving scales..... | 1021 | Rings, steel..... | 944 | | | | |
| Revolving screens..... | 1025 | Rings, trap door..... | 944 | | | | |
| Revolving twist drill holders..... | 535 | Rings, trapeze..... | 944 | | | | |
| Revolving water screens..... | 1025 | Rings, weldless..... | 944 | | | | |
| Revolving & shaking screens..... | 1025 | Rings, wire..... | 944 | | | | |
| Rewinders & slitters, knit fabric..... | 1124 | Rings with staple..... | 944 | | | | |
| Rewinding machines, paper..... | 651 | Rip saw machines..... | 659 | | | | |
| Rexoid roofing..... | 995 | Rippers, gang..... | 461 | | | | |
| Rheostat bricks..... | 943 | Risers, pole..... | 900 | | | | |
| Rheostat regulators..... | 942 | Risers & stair treads, slate..... | 1052 | | | | |
| Rheostatic controllers..... | 273 | Rising forks..... | 449 | | | | |
| Rheostats..... | 943 | River scow builders..... | 1022 | | | | |
| Rib cutters..... | 1121 | Rivet cements..... | 216 | | | | |
| Rib cutting & folding machines..... | 1128 | Rivet chippers (bolt or rivet)..... | 230 | | | | |
| Rib knitting machines..... | 1125 | Rivet drilling machines..... | 636 | | | | |
| Ribbon cutting machines..... | 943 | Rivet heading machines..... | 659 | | | | |
| Ribbon cutting machines, typewriter..... | 1161 | Rivet heating forges..... | 446 | | | | |
| Ribbon finishing machines..... | 1122 | Rivet heating furnaces..... | 457 | | | | |
| Ribbon lead..... | 582 | Rivet holder-on, pneumatic..... | 898 | | | | |
| Ribbon looms..... | 1126 | Rivet hole reamers..... | 938 | | | | |
| Ribbon sash..... | 1004 | Rivet machinery..... | 659 | | | | |
| Ribbon scroll conveyors..... | 1097 | Rivet machines, wire..... | 673 | | | | |
| | | Rivet making furnaces..... | 457 | | | | |
| | | Rivet mfrs..... | 77 & 944 | | | | |

| Page | Page | Page | Page |
|---|--|--|--|
| Roll bars & bed plates, pa- per mill engine..... 949 | Rolling partitions (see parti- tions, various kinds)..... 817 | Roofing pitch (paving & roofing)..... 825 | Rosettes & pickets, wood (see ornaments wood)..... 86 |
| Roll cards..... 1119 | Rolling partitions, wood..... 821 | Roofing plate mfrs. (see tin &terne plate mfrs.)..... 995 | Rosin boxes, plumbers'..... 1055 |
| Roll copper..... 278 | Rolling pins..... 1025 | Roofing, rexoid..... 995 | Rosin core solder..... 797 |
| Roll coverers..... 1128 | Rolling screens..... 1044 | Roofing, "Roofrite"..... 995 | Rosin mfrs..... 780 |
| Roll coverers' tools..... 578 | Rolling shutters, steel..... 1044 | Roofing, rubber..... 1051 | Rosin mills..... 1038 |
| Roll engraving lathes..... 495 | Rolling & flattening ma- chines..... 673 | Roofing slag..... 996 | Rotary circle shears..... 273 & 999 |
| Roll grinders..... 949 | Rolling & melting furnaces..... 645 | Roofing slate, asbestos..... 996 | Rotary drills, pneumatic..... 331 |
| Roll grooving machines..... 1155 | Rolling & stoning machines, leather..... 571 | Roofing slate mfrs..... 997 | Rotary dryers..... 457 |
| Roll paper cutters..... 578 | Rolling & trolley ladders..... 954 | Roofing slate, purple..... 997 | Rotary drying cylinders..... 518 |
| Roll paper trucks..... 569 | Rolls, beam bending..... 954 | Roofing slate, red..... 997 | Rotary heads..... 566 |
| Roll polishing lathes..... 659 | Rolls, bending & straighten- ing..... 954 | Roofing slate, sea green..... 997 | Rotary kilns..... 793 |
| Roll scraper knives..... 659 | Rolls, blue print..... 1129 | Roofing slate, unfading..... 997 | Rotary nozzles..... 1038 |
| Roll straightening & finish- ing machines..... 457 | Rolls, card feed..... 954 | Roofing slate, unfading mot- tled..... 997 | Rotary oil pumps..... 1038 |
| Roll tapering furnaces..... 949 | Rolls, chilled calender..... 954 | Roofing slate, unfading pur- ple..... 997 | Rotary pipe cutting shears..... 825 |
| Roll trains..... 578 | Rolls, copper printing..... 954 | Roofing, smooth surface..... 997 | Rotary planers..... 834 |
| Roll turning lathes..... 816 | Rolls, crimping & corrugat- ing..... 954 | Roofing tile, actinolite..... 997 | Rotary plows (disc or rotary)..... 69 |
| Roll wrapping paper..... 431 | Rolls, crushing..... 955 | Roofing tile, asphalt..... 997 | Rotary pressure blowers..... 660 |
| Roll & dial feeds..... 1207 | Rolls, dandy..... 955 | Roofing tile, asphalt..... 997 | Rotary printing & rewinding machines..... 920 |
| Roll & rotary wire straight- eners..... 673 | Rolls, flaking..... 1129 | Roofing tile, cement..... 998 | Rotary pumps..... 999 |
| Roll & rotary wire straight- ening machines..... 89 | Rolls, forged steel..... 955 | Roofing tile, "Conosera"..... 998 | Rotary rapper for bench- molders..... 500 |
| Rolled brass..... 479 | Rolls, forging & tapering..... 955 | Roofing tile, glass..... 660 | Rotary riveting hammers..... 495 |
| Rolled plate glass, rough ribbed & figured..... 479 | Rolls, grinding..... 955 | Roofing tile machinery..... 999 | Rotary shear grinders..... 1038 |
| Roller bearing axles..... 43 | Rolls, grinding & corru- gating..... 1129 | Roofing tile, metallic (see shingles, metallic)..... 998 | Rotary shears..... 1038 |
| Roller bearing bushings..... 1193 | Rolls, hand banding..... 955 | Roofing tile, metallic, Span- ish shapes..... 998 | Rotary shears, pipe cutting..... 1038 |
| Roller bearing car wheels..... 948 | Rolls, hand & belt power bending..... 955 | Roofing tile, promenade..... 998 | Rotary slitting shears..... 1062 |
| Roller bearing rods..... 1196 | Rolls, hub band bending & truing..... 955 | Roofing tile, Roman-Grecian..... 998 | Rotary squeezers..... 1128 |
| Roller bearing wheels & axles..... 54 | Rolls, immersion..... 955 | Roofing tile, terra cotta..... 998 | Rotary tunnel cars..... 191 |
| Roller bearings..... 219 | Rolls, lap welding..... 955 | Roofing tile, terra cotta, glazed..... 998 | Rotary & roll wire straight- ening machines..... 673 |
| Roller chains..... 949 | Rolls, leather pressure..... 955 | Roofing tile, terra cotta, graduated..... 998 | Rough plate & tile..... 474 |
| Roller coasters..... 659 & 1128 | Rolls, lime..... 955 | Roofing tile, terra cotta, Spanish shapes..... 998 | Rough, ribbed & figured rolled plate glass..... 479 |
| Roller covering machines..... 326 | Rolls, live..... 955 | Roofing tin in rolls..... 998 | Rough & ribbed glass for skylights..... 480 |
| Roller drills, shade..... 780 | Rolls, metallic drawing..... 955 | Roofing tin mfrs..... 998 | Roughing lathes..... 578 |
| Roller grinding mills..... 1128 | Rolls, plate bending..... 955 | Roofing tongs..... 1142 | Round belting mfrs..... 62 |
| Roller leather..... 1128 | Rolls, ribbon solder..... 955 | Roofing & paving slag..... 1051 | Round cornering machines..... 660 |
| Roller or ball bearing axles (see wheels & axles, ball or roller bearing)..... 1128 | Rolls, rub, for finishers..... 955 | Roofing & sheathing paper..... 816 | Round house doors..... 320 |
| Roller skins..... 1025 | Rolls, rubber..... 955 | Roofing & siding (iron & steel)..... 999 | Round house smoke jacks, fire clay..... 999 |
| Roller window screens..... 504 | Rolls, sand, chilled & steel..... 1129 | Roofing & slating nails..... 999 | Round leather bell cords..... 279 |
| Roller & ball bearing hang- ers..... 1061 | Rolls, size..... 1129 | "Roofrite," roofing..... 999 | Round or saddlers' punches..... 537 |
| Roller & block chain sprock- ets..... 949 | Rolls, temple..... 1149 | Roofs, fireproof, "Urallite"..... 440 | Rounds, ladder, miners'..... 570 |
| Roller & pulverizer, com- bined..... 949 | Rolls, train..... 955 | Roofs, glass..... 999 | Routing bit drills..... 326 |
| Rollers, barn door..... 949 | Rolls, typewriter..... 955 | Root cutters..... 303 | Routing machines..... 660 |
| Rollers, barn door, stay..... 949 | Rolls, wood..... 955 | Root knives (hedge & root)..... 568 | Routing & mortising ma- chines, gang..... 660 |
| Rollers, concrete..... 949 | Roman Grecian roofing tile..... 998 | Rooter plows..... 835 | Roving cans..... 1129 |
| Rollers, copper printing..... 1128 | Roman & Venetian mosaics..... 88 | Rope belting..... 62 | Roving frames..... 1128 |
| Rollers, flue..... 949 | Roof brackets..... 955 | Rope blocks, wire..... 68 | Roving & drawing boxes..... 1118 |
| Rollers, flue, pneumatic..... 896 | Roof coatings (see cements, roofing)..... 793 | Rope cableways, wire..... 178 | Roving & yarn scales..... 1129 |
| Rollers, house movers'..... 949 | Roof equipment nozzles..... 443 | Rope, cast steel switching..... 229 | Rowlocks..... 999 |
| Rollers, incline..... 949 | Roof flanges..... 955 | Rope cleats..... 230 | Royal Irish green marble..... 752 |
| Rollers, land & field..... 949 | Roof gutters, galvanized steel..... 955 | Rope clips, wire..... 37 | Rub rolls for finishers..... 1129 |
| Rollers, lawn & garden..... 950 | Roof joint..... 955 | Rope, cord & twine, asbes- tos..... 999 | Rubber aprons..... 11 |
| Rollers, log..... 592 | Roof paving compound..... 955 | Rope, cotton..... 999 | Rubber band cutting ma- chines..... 660 |
| Rollers, paper hangers'..... 950 | Roof putty..... 955 | Rope dressing..... 322 | Rubber band mfrs..... 999 |
| Rollers, paper machine..... 950 | Roof snow guards..... 947 | Rope driven traveling cranes..... 999 | Rubber bath curtains..... 299 |
| Rollers, pneumatic flue..... 896 | Roof & bridge rods..... 956 | Rope drives..... 328 | Rubber battery jars..... 53 |
| Rollers, puddling..... 950 | Roofers, plastic slate..... 992 | Rope driving drums..... 332 | Rubber belting (see belting mfrs.)..... 66 |
| Rollers, reversible road..... 950 | Roofers, tanners, etc..... 992 | Rope, dumb waiter..... 1046 | Rubber bleachery eyes..... 114 |
| Rollers, road, horse power..... 951 | Roofing, actinolite..... 992 | Rope, fibre signs..... 437 | Rubber buffers..... 999 |
| Rollers, road, steam..... 951 | Roofing, anchor brand..... 992 | Rope fire escapes..... 999 | Rubber bumpers & cushions..... 178 |
| Rollers, rubber covered..... 950 | Roofing, asbestos..... 992 | Rope, haulage & transmis- sion steel..... 999 | Rubber bushings..... 216 |
| Rollers, shade..... 950 | Roofing, asbestos-metallic..... 992 | Rope, hay..... 999 | Rubber channeler springs..... 1061 |
| Rollers, steam asphalt..... 951 | Roofing, asbestos protected metal..... 992 | Rope, insulating papers for refrigerators & cold stor- age..... 999 | Rubber cloth machinery..... 660 |
| Rollers, steam golf course..... 951 | Roofing asphalt, gravel..... 992 | Rope making machinery, wire..... 673 | Rubber covered cables (see wire, rubber covered)..... 950 |
| Rollers, steam road..... 951 | Roofing asphalt ready..... 992 | Rope, manilla switch..... 999 | Rubber covered rollers..... 1206 |
| Rollers, towel (see racks, bat, coat & towel)..... 951 | Roofing asphalt slag..... 992 | Rope, manilla transmission..... 999 | Rubber covered wire & cables..... 1209 |
| Rollers, trawl..... 951 | Roofing caps, tin..... 992 | Rope, manilla & sisal..... 309 | Rubber curtains, bath..... 299 |
| Rollers & pinions..... 1098 | Roofing, car..... 992 | Rope mfrs., derrick..... 788 | Rubber diaphragms..... 310 |
| Rolling coulters for plows..... 239 | Roofing, cement..... 993 | Rope mouldings..... 816 | Rubber dies..... 312 |
| Rolling curtains, steel..... 299 | Roofing, cork..... 993 | Rope papers..... 999 | Rubber elbows, plumbers'..... 336 |
| Rolling fire escapes..... 437 | Roofing, corrugated iron as- bestos coated..... 993 | Rope, rawhide..... 1039 | Rubber erasers..... 426 |
| Rolling ladders..... 571 | Roofing, duck (see cotton duck mfrs.)..... 993 | Rope shears, manilla..... 1055 | Rubber force cups..... 299 |
| Rolling lift bridges..... 109 | Roofing, elaterite..... 993 | Rope sockets, wire..... 999 | Rubber gas bags..... 461 |
| Rolling machines, braid..... 1118 | Roofing, "Elateroid" coatings..... 993 | Rope steel switching & wrecking..... 660 | Rubber, gauge glass..... 467 |
| Rolling machines, carpet..... 633 | Roofing, feldspar..... 431 | Rope transmitting machinery..... 1206 | Rubber gloves..... 999 |
| Rolling machines, coupling..... 642 | Roofing, ferroinclave..... 993 | Rope & cable coating (see wire rope coating & lubri- cant)..... 1206 | Rubber goods, druggists' & surgical..... 1000 |
| Rolling machines, scythe..... 662 | Roofing, flintkote..... 993 | Rope & cables, wire..... 1206 | Rubber goods, moulded..... 892 |
| Rolling machines, sole leather..... 665 | Roofing, flintkote..... 993 | Rope & spiral wood turning (see mouldings, various kinds)..... 999 | Rubber grinding & mixing machines..... 1000 |
| Rolling mats, wood..... 766 | Roofing, granite..... 993 | Rosendale cements..... 216 | Rubber horse shoe pads..... 1042 |
| Rolling mill conveyors..... 276 | Roofing gravel (see sand & gravel)..... 993 | Rosettes & corner block ma- chines..... 660 | Rubber horse shoes..... 540 |
| Rolling mill engines..... 421 | Roofing, imperial..... 993 | Rosettes, electric..... 999 | Rubber hose mfrs. (see hose mfrs., various kinds)..... 569 |
| Rolling mill feed tables..... 1103 | Roofing, iron & steel..... 660 | Rosettes, fuseless..... 999 | Rubber knives..... 999 |
| Rolling mill gauges..... 659 | Roofing machines..... 790 | Rosettes & pickets, iron..... 999 | Rubber machinery (see ma- chinery, rubber, various kinds)..... 999 |
| Rolling mill machinery..... 1021 | Roofing, mastic..... 993 | Rosettes & pickets, steel..... 999 | |
| Rolling mill scales..... 1155 | Roofing materials, asphalt..... 783 | | |
| Rolling mill trucks..... 204 | Roofing materials (jobbers)..... 813 | | |
| Rolling mill & furnace cast- ings..... 951 | Roofing mops..... 816 | | |
| Rolling mills, brass & cop- per..... 951 | Roofing nails..... 995 | | |
| Rolling mills, continuous..... 951 | Roofing paints..... 995 | | |
| Rolling mills, iron & steel..... 951 | Roofing paper..... 995 | | |

| | Page | | Page | | Page | | Page |
|---|------|--|------|--|------|--|------|
| Rubber mallets | 745 | Sack or bag holders (see holders, bag). | | Sand-lime brick mfrs. | 107 | Sashes, English casement... | 1015 |
| Rubber mfrs., mechanical... | 1000 | Sacks, paper, cement & flour | 1001 | Sand-lime brick plants equipped | 1002 | Saturated felts (asphalt & saturated) | 431 |
| Rubber mats & matting.... | 766 | Sad irons | 1001 | Sand-lime brick press machines | 624 | Saturation & carbonation plants | 1097 |
| Rubber mill hose machines.. | 643 | Saddle boxes | 1129 | Sand mills | 780 | Sausage making machines.. | 661 |
| Rubber mill machinery.... | 660 | Saddle nails | 790 | Sand mixer & screen, combined | 1002 | Sausage meat mixers..... | 782 |
| Rubber mill spreaders.... | 1058 | Saddle seat machines.... | 661 | Sand mixers, foundry | 782 | Sausage stuffers | 1097 |
| Rubber mill vulcanizers.... | 1181 | Saddle staples, insulating... | 546 | Sand mixing machines | 661 | Savers, waste | 1132 |
| Rubber mill wrapping machines | 677 | Saddle & lining nails | 790 | Sand molding machines (see molding machines, foundry). | | Saw anvils | 1015 |
| Rubber molds | 783 | Saddlers' hammers | 500 | Sand, molding or foundry.... | 1002 | Saw arbors | 1015 |
| Rubber oil well supplies... | 796 | Saddlers' punches (round or saddlers') | 925 | Sand, paper holders | 535 | Saw balancing scales, planer | 1020 |
| Rubber packers & rings.... | 1000 | Saddlery hardware mfrs. .. | 508 | Sand paper making machinery | 661 | Saw benches or tables.... | 1015 |
| Rubber, reclaimed | 1000 | Saddlery tools | 1146 | Sand paper mfrs. | 1002 | Saw blades, band & jig.... | 1015 |
| Rubber rings | 944 | Saddles | 1129 | Sand papering machines .. | 661 | Saw blades, cold | 1015 |
| Rubber rods, sheets & tubing | 1000 | Saddles, bicycle..... | 1001 | Sand rammers | 936 | Saw blades, hack flexible back | 1015 |
| Rubber rolls | 955 | Saddles, boiler, cast steel .. | 71 | Sand rammers, pneumatic .. | 898 | Saw blades, hack for metal... | 1015 |
| Rubber roofing | 996 | Saddles, boiler, pressed steel | 71 | Sand rolls, chilled & steel... | 955 | Saw blades, stone (see stone saw blades, steel). | |
| Rubber scrap | 1023 | Saddles, car roof, for running board | 1001 | Sand screens | 1025 | Saw blades & frames, hack... | 1015 |
| Rubber sheave or pulley filling | 1038 | Saddles, pipe | 1001 | Sand sifters | 1002 | Saw brazing clamps..... | 227 |
| Rubber socket bushings.... | 1054 | Saddles, tank (see boiler saddles). | | Sand sifting machines | 661 | Saw brazing tables...1016 & 1103 | |
| Rubber spikes | 1057 | Safe deposit boxes | 86 | Sand, silica | 1002 | Saw bucks & frames..... | 1016 |
| Rubber sponges | 1058 | Safe deposit lock mfrs. | 588 | Sand storage tanks | 1109 | Saw clamps | 227 |
| Rubber springs | 1061 | Safe deposit screens..... | 1025 | Sand washers | 1002 | Saw coils, butchers'..... | 1016 |
| Rubber stair treads (see mats & matting, rubber). | | Safe makers' spring hinges... | 530 | Sand & dredging pumps.... | 920 | Sawdolet | 1016 |
| Rubber stamps | 1065 | Safes, bank, patent screw door | 46 | Sand & gravel conveyors .. | 275 | Sawdust, conveyors..... | 276 |
| Rubber striking bags..... | 44 | Safes, express car | 1001 | Sand & gravel dealers | 1002 | Saw filing & setting machines | 661 |
| Rubber strip cutting machines | 660 | Safes, fire & burglar proof .. | 1001 | Sand & gravel heaters & dryers | 1002 | Saw fitting machinery.... | 661 |
| Rubber tile | 1137 | Safes, house | 1001 | Sander machines, molding.. | 649 | Saw frames, wood..... | 453 |
| Rubber tiling, interlocking... | 1137 | Safes, receiving | 1001 | Sander & boring machines .. | 661 | Saw gauges | 469 |
| Rubber tips | 1140 | Safety chains | 219 | Sanders, locomotives..... | 589 | Saw grinders | 495 |
| Rubber tire applying machinery | 660 | Safety coal hole covers .. | 233 | Sanders, molding | 1002 | Saw guides | 1016 |
| Rubber tire machines..... | 660 | Safety controllers, elevator .. | 368 | Sanders, track | 1002 | Saw gummers | 498 |
| Rubber tire molds..... | 783 | Safety deposit boxes | 1001 | Sanding machines | 1129 | Saw hammers | 500 |
| Rubber tired casters & wheels | 194 | Safety deposit vaults..... | 47 | Sanding machines, brick mould | 624 | Saw levelling tables..... | 1016 |
| Rubber tired wheels..... | 1195 | Safety devices, elevator | 368 | Sanding machines, disc | 634 | Saw making machinery.... | 661 |
| Rubber tires | 1141 | Safety elevators, automatic .. | 369 | Sanding & finishing machines, curtain pole | 634 | Saw mandrels | 745 |
| Rubber toys | 1148 | Safety hooks for mine cages | 537 | Sanding & polishing machinery | 661 | Saw mill carriage air cushions | 7 |
| Rubber truck bands..... | 1153 | Safety locks, elevator | 368 | Sanitary closets (see water closet mfrs.). | | Saw mill carriages..... | 1016 |
| Rubber tube making machines | 660 | Safety pin machinery | 661 | Sanitary drinking fountains. | 452 | Saw mill dogs..... | 315 |
| Rubber tubing | 1157 | Safety pins | 822 | Sanitary earthenware mfrs., plumbers' | 893 | Saw mill feeds, steam.... | 1016 |
| Rubber type | 1160 | Safety stops, elevator | 368 | Sanitary engineers | 411 | Saw mill machinery..... | 661 |
| Rubber valve balls | 1162 | Safety valves | 1171 | Sanitary sweepers, vacuum .. | 1002 | Saw mills (see lumber mfrs.). | |
| Rubber valves | 1171 | Safety water columns | 1187 | Sanitary tile | 1137 | Saw mills, band..... | 1016 |
| Rubber vulcanizing presses, hydraulic | 906 | Sails, yacht | 1001 | Sap buckets | 114 | Saw mills, circular..... | 1016 |
| Rubber washers | 1185 | Salamander fireproofing .. | 441 | Sardine scissors | 1022 | Saw mills, drag..... | 1016 |
| Rubber washing machines.. | 660 | Salamander furnaces | 457 | Sash balance mfrs..... | 1003 | Saw mills, gang..... | 1016 |
| Rubber & enamel carriage cloth | 1000 | Salamanders | 1001 | Sash bars, metallic | 769 | Saw mills, portable..... | 1016 |
| Rubberized pitch | 825 | Salamandorite | 1001 | Sash bars, steel | 1003 | Saw mortises, chain..... | 217 |
| Rubbers, fruit jar..... | 1000 | Sal-ammoniacs | 1001 | Sash bolt & support..... | 1003 | Saw punches | 925 |
| Rubbers, window cleaner... | 1000 | Salasee | 1001 | Sash bolts, ventilating | 1003 | Saw punches, butchers', etc. | 923 |
| Rubbing beds, stone, etc.... | 1000 | Salt buckets | 114 | Sash chain machines | 661 | Saw punching machines, butchers' | 625 |
| Rubbing bricks, sticks, etc... | 1000 | Salt making machinery | 661 | Sash chains..... | 220 | Saw re-toothers | 1016 |
| Rubbing machines, wood.... | 675 | Salt pans | 815 | Sash cord irons | 561 | Saw screws | 1029 |
| Rug looms | 1126 | Salt rock | 946 | Sash cord mfrs. | 1003 | Saw sets | 1017 |
| Rugs, oriental | 798 | Salt well dryers | 331 | Sash cord mfrs., steel wire... | 1003 | Saw settling machines.... | 662 |
| Rule clamps | 227 | Salt well machinery | 661 | Sash curtain rods | 948 | Saw shapers | 1035 |
| Rule gauges | 469 | Salts, chemical | 1001 | Sash door & blind machinery | 661 | Saw sharpeners | 1036 |
| Rule wire | 1207 | Salts, intensifier & unifying blue print | 69 | Sash fasteners | 430 | Saw sharpening machines... | 662 |
| Rulers, advertising, wood... | 1000 | Salts, paste, etc., soldering | 1056 | Sash, greenhouse & hot bed... | 1003 | Saw slashers | 1017 |
| Rulers, school & desk..... | 1000 | Sample card machines | 1129 | Sash grooving machines .. | 661 | Saw stretchers | 1096 |
| Rules | 1000 | Sample mailing boxes & cases | 744 | Sash hangers, storm | 1003 | Saw stretchers & re-toothers | 1017 |
| Rules, caliper | 1000 | Sample ore grinders | 495 | Sash hinges, greenhouse.... | 530 | Saw swages | 1017 |
| Rules, extension | 1000 | Sample weighing scales | 1021 | Sash holder, automatic window | 1199 | Saw tables | 1017 |
| Rules, key-seat | 1000 | Sampers, ore | 1001 | Sash iron, elevator | 368 | Saw tables for metal..... | 1017 |
| Rules, lumberman's | 1000 | Sand blast glass | 480 | Sash lifts | 1003 | Saw teeth | 1017 |
| Rules, machine divided steel... | 1000 | Sand blast machines | 661 | Sash line | 1003 | Saw teeth cutting punch presses | 907 |
| Rules, machinists' | 1000 | Sand blast & paint spraying machinery, contractors' .. | 632 | Sash locks | 1003 | Saw tools | 1017 |
| Rules, pocket | 1000 | Sand boxes | 86 | Sash locks, ventilating | 1004 | Saw tooth jointers..... | 564 |
| Rules, scale & shrinkage.... | 1000 | Sand brick machines..... | 661 | Sash, metal | 769 | Saw vises | 1180 |
| Rules, steel | 1000 | Sand chutes | 225 | Sash opening apparatus .. | 1004 | Sawdolet flooring | 445 |
| Rules, steel metric..... | 1001 | Sand, coal & gravel screens | 1025 | Sash operating device | 1004 | Sawing machinery, stone... | 667 |
| Rules, tinner's | 1001 | Sand conveying machinery for continuous molding .. | 661 | Sash pins | 822 | Sawing machines, blind slat.. | 621 |
| Ruling machines | 661 | Sand conveyors | 275 | Sash pull hooks..... | 537 | Sawing machines, brass.... | 623 |
| Ruling machines, paper.... | 651 | Sand dealers | 1002 | Sash pulley mfrs..... | 1004 | Sawing machines, cardboard, wood | 626 |
| Rumbling barrels | 48 | Sand drum machines | 661 | Sash pulley mortiser..... | 1004 | Sawing machines, cross-cut. | 634 |
| Running board saddles, car roof | 1001 | Sand drums | 328 | Sash pulleys, "Grant" overhead | 1004 | Sawing machines, electro & linotype | 637 |
| Running gears | 472 | Sand excavating & screening plants, portable..... | 1001 | Sash, metal | 769 | Sawing machines, gang, wood | 674 |
| Running gears, automobile. | 471 | Sand feed stone sawing pumps | 920 | Sash opening apparatus .. | 1004 | Sawing machines, granite (see machines, stone sawing). | |
| Rural mail boxes..... | 86 | Sand filtering | 434 | Sash operating device | 1004 | Sawing machines, handle blank | 642 |
| Rust preventives | 1001 | Sand filters | 435 | Sash pins | 822 | Sawing machines, hot..... | 643 |
| Rust proof paints..... | 814 | Sand, fire | 441 | Sash pull hooks..... | 537 | Sawing machines, metal circular | 629 |
| Rustic woodwork | 1001 | Sand, glass makers' | 1001 | Sash pulley mfrs..... | 1004 | Sawing machines, metal hand power | 646 |
| Rustic work, terra cotta.... | 1001 | Sand grinders | 495 | Sash pulleys, wrought "American" | 1004 | Sawing machines, metal jig. | 646 |
| Rustless fly screens..... | 1024 | Sand handling bridges | 109 | Sash ribbon | 1004 | Sawing machines, pattern shop | 652 |
| Rustless hardware, bullders. | 505 | Sand handling buckets | 114 | Sash storm | 1004 | | |
| Rustless iron, oxidized.... | 557 | Sand handling plants | 1001 | Sash trimmer machines.... | 661 | | |
| Rustless wire screens..... | 1026 | Sand lifting & jet watereductors | 336 | Sash ve ntilating locks mfrs. | 588 | | |
| Rye threshers | 1134 | Sand-lime brick machinery. | 661 | Sash weights | 1004 | | |
| | | | | Sash, window (see window frame and sash, various kinds). | | | |
| | | | | Sash & transom centers.... | 216 | | |
| | | | | Sashes, doors and blinds... | 1004 | | |

S

"S" or eight hooks..... 537
 "S" wrenches 1214 | Saccharometers | 1001 | Sack filling & sewing machines (bag & sack)..... | 619 |

| Page | Page | Page | Page |
|--|---|--|---|
| Sawing machines, rail..... 658 | Scales, grain testing1020 | Scraper holders 535 | Screw drivers, jewelers'....1026 |
| Sawing machines, scroll.... 662 | Scales, hopper1020 | Scraper knives 569 | Screw drivers, railroad spike.1026 |
| Sawing machines, stave.... 667 | Scales, ice1020 | Scrappers, asphalt1023 | Screw eyes1026 |
| Sawing machines, stone cir- cular 629 | Scales, industrial1020 | Scrappers, box & plumbers'..1023 | Screw head nails..... 790 |
| Sawing machines, stone, gang 667 | Scales, leather dealers'....1020 | Scrappers, burning off.....1023 | Screw heading machines.... 662 |
| Sawing machines, wood.... 675 | Scales, liquid & oil weigh- ing1020 | Scrappers, butchers' block...1023 | Screw heading machines, wood 675 |
| Sawing & jointing machines. 662 | Scales, locomotive1020 | Scrappers, cabinet, etc.....1023 | Screw hooks 537 |
| Sawing & splitting ma- chines, cord wood..... 675 | Scales, mill1020 | Scrappers, coke1023 | Screw hook & eye hinges.... 530 |
| Saws1017 | Scales, mitre 781 | Scrappers, cotton1023 | Screw jacks 563 |
| Saws, band1017 | Scales, miners' & transpor- tation1020 | Scrappers, drag wheel (see road scrapers, drag & wheel).....1023 | Screw machine chucks..... 225 |
| Saws, band cut-off1017 | Scales, oil1020 | Scrappers, floor1023 | Screw machine tools.....1146 |
| Saws, band spruce (see band spruce sawing machines). 1017 | Scales, pig iron, etc.....1020 | Scrappers, foot1024 | Screw machine work.....1027 |
| Saws, blind slat.....1017 | Scales, platform or wagon.1020 | Scrappers, hog1024 | Screw machinery 662 |
| Saws, butchers, etc.....1017 | Scales, platform, portable.1021 | Scrappers, kettle1024 | Screw machinery, wood.... 675 |
| Saws, circular1017 | Scales, postal1021 | Scrappers, miners' (needles & scrapers)..... 781 | Screw machines 662 |
| Saws, circular, for metal.1018 | Scales, railroad track.....1021 | Scrappers or cleaners, track.1024 | Screw machines, automatic. 662 |
| Saws, circular stone.....1018 | Scales, revolving1021 | Scrappers, painters' & paper- hangers'1024 | Screw machines, double tur- ret hand 662 |
| Saws, cold1018 | Scales, rolling mill.....1021 | Scrappers, pipe line.....1024 | Screw machines, gimlet pointing coach 662 |
| Saws, concave1018 | Scales, sample weighing....1021 | Scrappers, pot & kettle.....1024 | Screw machines, hand..... 662 |
| Saws, copper slitting1018 | Scales, self-weighing auto- matic feeders1122 | Scrappers, road, drag & wheel 946 | Screw machines, lag..... 662 |
| Saws, cordwood1018 | Scales, spring1021 | Scrappers, self-filling1024 | Screw machines, Stiles..... 662 |
| Saws, cross-cut.....1018 | Scales, stock1021 | Scrappers, ship1024 | Screw mfrs.....1027 |
| Saws, cut-off, wood.....1018 | Scales, suspended, for boiler rooms1021 | Scrappers, sidewalk1024 | Screw pitch-gauges 469 |
| Saws, cylinder1018 | Scales, talking1021 | Scrappers, stove1024 | Screw plate dies..... 312 |
| Saws, dehornng1018 | Scales, tank1021 | Scrappers, wall1024 | Screw plate & axle cutters, combined 42 |
| Saws, diamond1018 | Scales, thermometer & ba- rometer1021 | Scrapping machines, floor... 639 | Screw plates1027 |
| Saws, drag1018 | Scales, tipple1021 | Scrapping tools1146 | Screw polishing machines... 662 |
| Saws, flexible back band....1018 | Scales, track1021 | Scratch awls 42 | Screw presses 908 |
| Saws, gang1018 | Scales, trolley track.....1022 | Scratch gauges 469 | Screw pulleys 912 |
| Saws, gang, stone & slate.1018 | Scales, yarn1129 | Scratching & overhauling machines 662 | Screw pumps 920 |
| Saws, grooving1018 | Scales, yarn and roving....1129 | Screen door checks.....1024 | Screw punching machines... 657 |
| Saws, hack1018 | Scaling hammers, pneu- matic 898 | Screen door hinges..... 530 | Screw rings 944 |
| Saws, hand1018 | Scalpers, corn mill.....1022 | Screen door pulls..... 913 | Screw rods 949 |
| Saws, hollow or trepanning.1018 | Scalpers, sieve1022 | Screen plates 831 | Screw shaving machines ... 662 |
| Saws, hot cut-off.....1018 | Scalping reels 939 | Screen shakers, pneumatic.. 898 | Screw shaving & slotting- machines, wood 675 |
| Saws, ice1018 | Scarfer knives 569 | Screen wire1207 | Screw slotting cutters 303 |
| Saws, inserted teeth1018 | Scarification machines, plate.. 654 | Screen & mixer combined, sand1002 | Screw slotting machine 662 |
| Saws, jewelers'1018 | Scarfing machines, plate... 946 | Screening machinery 662 | Screw thread rolling ma- chines 662 |
| Saws, jig1018 | Scenic artists1022 | Screening plants, coal & coke 233 | Screw threading & pointing machines, wood 675 |
| Saws, kitchen1018 | Scenic railways (see rail- ways, miniature). 770 | Screening & excavating plants, sand, portable...1001 | Screw wire1206 |
| Saws, metal slitting1018 | Schist mica 65 | Screenings, stone1091 | Screw wrenches1214 |
| Saws, piercing1018 | School blackboards, "com- presso" 296 | Screens, bank counter.....1024 | Screw, nut & thumb blanks.. 66 |
| Saws, plumbers'1018 | School crayons 459 | Screens, card1129 | Screw & nut eye bolts 82 |
| Saws, plumbers' hollow mill.1018 | School, fire & factory bells (see bells, church). 537 | Screens, card, patent bar...1119 | Screwing machines, nut & bolt 621 |
| Saws, pneumatic portable.. 897 | School furniture1053 | Screens, clay & cement...1024 | Screwless door knobs 318 |
| Saws, rail & shop.....1018 | School house hooks..... 537 | Screens, coal & gravel.....1025 | Screws, bed1027 |
| Saws, scroll1019 | School slates1053 | Screens, cylindrical1024 | Screws, bench1028 |
| Saws, segment1019 | School ventilation (see ven- tilating apparatus). 1186 | Screens, disintegrating1024 | Screws, bibb1027 |
| Saws, swing1019 | School water closets.....1000 | Screens, door (see screens, window & door). 441 | Screws, bicycle1027 |
| Scaffold brackets, folding... 87 | School & desk rulers.....1183 | Screens, fire place (see fire place furnishings). 1024 | Screws, brass, copper, etc.1027 |
| Scaffold builders1019 | School & hotel wardrobes, ventilated1183 | Screens, fly, rustless.....1024 | Screws, brass machine1027 |
| Scaffold operating device, patent1019 | Schools, mechanical (see en- gineering schools & col- leges). 377 | Screens, foundry1024 | Screws, building movers1027 |
| Scaffold support jacks (lad- ders & scaffold)..... 562 | Schools & colleges, engineer- ing 377 | Screens, mining1024 | Screws, can1027 |
| Scagliola work (see marble, artificial). 310 | Schratweiser system, fire- proofing 441 | Screens, radiator, orna- mental 927 | Screws, cap & set1027 |
| Scale clock dials..... 310 | Scientific instruments 545 | Screens, revolving water...1025 | Screws, coach & lag1028 |
| Scale, mitre 781 | Scientific instruments, sec- ond hand 545 | Screens, revolving & shak- ing1025 | Screws, collar.....1028 |
| Scale scoops1022 | Scissors grinders (knife & scissors) 494 | Screens, roller, window...1025 | Screws, dowel (see screws, wood). 1028 |
| Scale & shrinkage rules....1000 | Scissors, sardine1022 | Screens, rolling1025 | Screws, drive (see screws, wood). 1028 |
| Scalers, fish1019 | Scissors & shears.....1038 | Screens, safe deposit1025 | Screws, feed1028 |
| Scales, abattoir1019 | Scollop machines1129 | Screens, sand, coal & gravel.1025 | Screws, fether drive1028 |
| Scales, armor plate.....1019 | Scoop buckets114 | Screens, suction1025 | Screws, for electrical trade.1028 |
| Scales, army & navy.....1019 | Scoop & spade mfrs.....1043 | Screens, window, metal frame1025 | Screws, German silver1028 |
| Scales, automatic1019 | Scoops, cheese1022 | Screens, window spring sliding1025 | Screws, gfb1028 |
| Scales, band tension.....1129 | Scoops, coal1022 | Screens, window, top hanger.1025 | Screws, gill1123 |
| Scales, bathroom1019 | Scoops, coal1022 | Screens, window & door...1025 | Screws, hand rail1028 |
| Scales, beam1019 | Scoops, furnace1022 | Screens, wire rustless....1026 | Screws, hand saw1028 |
| Scales, boiler room.....1019 | Scoops, grain1022 | Screens & backs, fire..... 441 | Screws, hand & bench1028 |
| Scales, cattle1019 | Scoops, potato, corn, etc...1022 | Screw blank headers..... 517 | Screws, hanger1028 |
| Scales, cement testing.....1019 | Scoops, scale1022 | Screw blanks (thumb, nut & screw) 66 | Screws, headless (see screws, wood). 1028 |
| Scales, charging1019 | Scoops, tunneling1022 | Screw cap rolling machines. 662 | Screws, hook & eye1028 |
| Scales, coal1019 | Scorch-not system fireproof- ing 441 | Screw caps 181 | Screws, house raising (see screws, building movers'). 1028 |
| Scales, coal, automatic.....1019 | Scotch gauge glasses..... 467 | Screw chasers 221 & 1026 | Screws, jack1028 |
| Scales, coal, traveling.....1019 | Scourers, wheat & buck- wheat1022 | Screw clamps 227 | Screws, knob (see screws, wood). 1028 |
| Scales, computing1019 | Scouring machines, wool...1129 | Screw cutting die heads... 518 | Screws, lag1028 |
| Scales, cotton & wool.....1020 | Scouring machines, yarn...1129 | Screw cutting dies..... 312 | Screws, lead1028 |
| Scales, counter1020 | Scow builders, river.....1022 | Screw cutting lathes..... 578 | Screws, machine1028 |
| Scales, crane or suspended.1020 | Scrap brass1022 | Screw cutting machines... 662 | Screws, piano (see screws, wood). 1028 |
| Scales, dairy1020 | Scrap breakers (casting or scrap) 90 | Screw doors, patent, bank safes 46 | Screws, plated & lacquered.1028 |
| Scales, depot1020 | Scrap copper 278 | Screw down check valves...1171 | Screws, plumbers'1029 |
| Scales, dormant1020 | Scrap iron & steel.....1022 | Screw driver bits..... 65 | Screws, rail1029 |
| Scales, dump1020 | Scrap rubber1023 | Screw driver ferrules..... 433 | Screws, saw1029 |
| Scales, elevator1020 | Scrap shears1038 | Screw driver handles..... 501 | Screws, set1029 |
| Scales, factory1020 | Scraper benches 62 | Screw driver mfrs.....1026 | Screws, set hollow.....1029 |
| Scales, family1020 | Scraper buckets 114 | Screw driver & cork screw, combined1026 | Screws, shutter1029 |
| Scales, feeders, automatic self-weighing1122 | Scraper conveyors 276 | Screw drivers, automatic...1026 | Screws, skeln1029 |
| Scales, fish1020 | | Screw drivers, flexible shaft.1026 | Screws, stage1029 |
| Scales, fluid1020 | | Screw drivers, insulated handle1026 | Screws, stud1029 |
| Scales for balancing planer saws1020 | | | Screws, thumb1029 |
| Scales for drawing1020 | | | |
| Scales, foundry1020 | | | |
| Scales, garment, lever bal- ance1129 | | | |
| Scales, glass works.....1020 | | | |

| | Page | | Page | | Page | | Page |
|--|------|--|------|--|------------|---|------|
| Screws, tobacco | 1029 | Second-hand dredges | 322 | Serpentine marble | 752 | Shackles, chain | 1034 |
| Screws, water closet (see screws, plumbers'). | | Second-hand railway equip- ments | 929 | Serrated knives & cutters.. | 570 | Shade adjusters, window... | 1200 |
| Screws, wood | 1029 | Second-hand scientific in- struments | 545 | Servers | 1032 | Shade cloth cutting ma- chines | 1034 |
| Screws, wooden | 1029 | Second-hand steam shovels.. | 1044 | Service switches | 1101 | Shade cloth mfrs..... | 1034 |
| Screws & washers, window stop | 1200 | Second-hand supplies, con- tractors' | 271 | Set screws | 1027 | Shade cord mfrs..... | 1034 |
| Scribers, adjustable, etc.... | 1029 | Sectional shelving, glass front | 1040 | Set screws, hollow..... | 1029 | Shade fixtures, window.... | 1200 |
| Scroll chucks..... | 225 | Sectional steel boilers | 72 | Set & cap screws..... | 1027 | Shade holders | 535 |
| Scroll sawing machines | 662 | Sectional warping mills | 1132 | Sets, automobile charging.. | 221 | Shade roller drills..... | 326 |
| Scroll saws | 1019 | Sections, mower & reaper | 788 | Sets, automobile tool..... | 1142 | Shade rollers | 950 |
| Scrolls, transfer | 1149 | Seed cleaning & separating machinery | 662 | Sets, electric lighting..... | 351 | Shades, aluminum | 1034 |
| Scrubbers, gas (purifiers & scrubbers) | 925 | Seed drills, garden | 324 | Sets, generating | 473 | Shades, car window (see car curtains). | |
| Scrubbers & tanks | 1029 | Seed separators, small | 1031 | Sets, lock | 1032 | Shades, electric light..... | 1034 |
| Scuffle hoes | 531 | Seed sowers, hand | 1056 | Sets, nail | 789 | Shades, eye (see goggle & eye protectors). | |
| Sculptors, architectural (mod- elers & sculptors) | 782 | Seed & bean sorting ma- chinery | 620 | Sets, oiling, engineers'.... | 797 | Shades, glass or porcelain.. | 1034 |
| Sculptors, architectural (see carvers, stone). | | Seeders, beet | 1030 | Sets, saw | 1017 | Shades, glass, pressed or blown | 1034 |
| Scuttle openers, automatic self locking | 1029 | Seeders, end gate | 1030 | Sets, soldering | 1056 | Shades, glass & metal..... | 1034 |
| Scythe mfrs. | 1029 | Seeders, garden | 1030 | Sets, tool | 1142 | Shades, incandescent gas (chimneys & shades)..... | 223 |
| Scythe rolling machines | 662 | Seeders, raisin | 1030 | Settees, chairs, etc., ve- neered (see veneer seating). | | Shades, mirror lined..... | 1034 |
| Scythe snaths | 1029 | Seeders, wheelbarrow, grass.. | 1030 | Settees, gliding | 1032 | Shades, paper | 1034 |
| Scythe stones | 1092 | Seeders & sowers | 1030 | Settees, railroad | 1032 | Shades, prismatic | 1034 |
| Sea green roofing slate | 997 | Segment cutters | 303 | Settees, rustic (see rustic woodwork). | | Shades, silk | 1034 |
| Sea moss | 785 | Segment saws | 1019 | Settees & chairs, iron..... | 1032 | Shades, trolley vestibule.... | 1034 |
| Seal presses..... | 908 | Segments, commutator (see bars, commutator). | | Setters, skein | 1032 | Shades, window & porch...1034 | |
| Sealing hammers, pneumatic | 898 | Seine making machinery (see netting machines). | | Setters, tie plate | 1032 | Shades & globes, prismatic.482 | |
| Sealing machines, envelope.. | 638 | Seine twine | 1160 | Setters, tire | 1032 | Shades & reflectors, electric light | 1034 |
| Sealing presses, car | 1029 | Self-acting mules | 1127 | Setting machines, band saw.. | 620 | Shades & reflectors, metal- lic | 1034 |
| Sealing wax | 1189 | Self-closing cocks & bibbs.... | 237 | Setting & stoning-out ma- chines, leather | 645 | Shades & reflectors, mirror..1034 | |
| Seals, box | 84 | Self-dumping buckets | 114 | Settings, grate | 490 | Shading machines, litho- graphers' & photo-en- gravers' | 663 |
| Seals, meter | 769 | Self-dumping tubs | 1158 | Settings, metallic | 769 | Shaft bars | 50 |
| Seals & sealing presses, car..1029 | | Self-dumping wagons | 1182 | Sewage disposal outfits, odor- less | 1032 | Shaft bolts..... | 82 |
| Seam closing machines, el- bow | 636 | Self-feeder knives..... | 566 | Sewage disposal plants..... | 1032 | Shaft boring machines..... | 663 |
| Seam face granite | 489 | Self-feeders & band cutters for threshers | 1030 | Sewage, distributors..... | 1032 | Shaft boxes | 86 |
| Seaming machines, furnace pipe | 640 | Self-feeding mine drills | 325 | Sewer braces | 1032 | Shaft couplings | 291 |
| Seamless brass, copper & nickel plated tubing, plum- bers' | 893 | Self-filling scrapers | 1024 | Sewer buckets | 114 & 1032 | Shaft hangers | 504 |
| Seamless copper air cham- bers | 7 | Self-hardening steel | 1074 | Sewer builders (see con- tractors, general). | | Shaft hangers, pressed steel | 504 |
| Seamless cylinders & tanks | 304 | Self-heating soldering irons..1056 | | Sewer castings (see man- hole covers, etc.). | | Shaft hangers, structural steel | 504 |
| Seamless knitting machines..1125 | | Self-measuring faucets..... | 430 | Sewer cleaning machines...663 | | Shaft hanging trestles.....1151 | |
| Seamless pressed steel bar- rels | 48 | Self-measuring pump, dou- ble acting | 917 | Sewer connection boots..... | 83 | Shaft machinery, lamp burner | 644 |
| Seamless pressed steel cylin- ders & sh lls..... | 304 | Self-oiling bearings .54 & 1030 | | Sewer contractors | 271 | Shaft polishing machines...663 | |
| Seamless pressed steel drums | 328 | Self-oiling engines | 422 | Sewer contractors' tools...1146 | | Shaft, post & bracket hang- ers | 504 |
| Seamless pressed steel gar- bage cans | 461 | Self-oiling hangers..... | 504 | Sewer excavating machinery663 | | Shaft straightening ma- chines | 663 |
| Seamless pressed steel kgcs..565 | | Self-oiling pulleys | 912 | Sewer flushers, automatic..446 | | Shaft straightening presses.908 | |
| Seamless pressed steel range boilers | 72 | Self-oiling wheels | 1195 | Sewer gas traps..... | 1150 | Shaft tips | 1140 |
| Seamless rolled steam pipe ..823 | | Self-opening dies | 312 | Sewer gas valves (back wa- ter & sewer gas)..... | 1164 | Shaft turning lathes..... | 579 |
| Seamless shafting, hollow ..1034 | | Self-opening scale boxes....86 | | Sewer inlet mfrs..... | 1032 | Shaft & pole couplers..... | 290 |
| Seamless steel fire extin- guisher tanks | 1109 | Self-sealing cans..... | 180 | Sewer lifts | 1033 | Shaft & pole machinery...663 | |
| Seamless steel forgings449 | | Self-starters | 1066 | Sewer manhole covers (see manhole covers). | | Shafting, cold drawn steel.1034 | |
| Seamless steel shells | 1040 | Self-starters, elevator, elec- tric | 368 | Sewer manhole steps..... | 1033 | Shafting, cold rolled.....1034 | |
| Seamless steel square tubing | 1158 | Self-starting motors, vari- able speed | 787 | Sewer pipe machinery..... | 663 | Shafting, cold rolled.....1034 | |
| Seamless steel tanks..... | 1109 | Self-supporting smoke stacks (see chimneys, steel). | | Sewer pipe mfrs..... | 1033 | Shafting, hollow seamless steel | 1034 |
| Seamless steel tubing | 1158 | Self-sustaining dumb waiters | 833 | Sewer pipe mfrs., cement...1033 | | Shafting, iron & steel.....1034 | |
| Seamless tanks, cylinders & tanks | 304 | Self-winding scale feeders, automatic | 1122 | Sewer pipe mfrs., reinforced | 1033 | Shafting machinery | 663 |
| Seamless tin boxes..... | 86 | Self-winding electric clocks.231 | | Sewer pipe, riveted steel (see pipe, riveted steel). | | Shafting ollers | 797 |
| Seamless tubing, tapered ..1158 | | Selvaige motions | 1126 | Sewer steps | 1079 | Shafting, polished steel...1035 | |
| Searchlight carbons | 183 | Semaphore lenses | 582 | Sewer-syphons (see flush tank mfrs.). | | Shafting, turned | 1035 |
| Searchlights, acetylene | 1029 | Semaphore signal lamps....574 | | Sewer & trench excavating cableways | 178 | Shafts, flexible | 1035 |
| Searchlights or projectors ..909 | | Semaphores, train order....1030 | | Sewer & trench excavating machines | 663 | Shafts, hollow (shafts & axles) | 43 |
| Seat back bending machinery | 662 | Semi-finished nuts | 794 | Sewers, web tile system...1033 | | Shafts, key seating..... | 1035 |
| Seat back buffers | 114 | Semi-steel castings | 204 | Sewing machine belting mfrs. | 62 | Shakers, milk | 770 |
| Seat fasteners | 430 | Sempermerus iron Kalamein windows | 1200 | Sewing machine hinges....530 | | Shakers, pneumatic screen..898 | |
| Seaters key (see machines, key seating). | | Sensitive drills | 326 | Sewing machine mfrs..... | 1033 | Shaking & dumping grates.491 | |
| Seating, car (see car seats, chairs, etc.). | | Separating machines, tack.668 | | Sewing machine needle ma- chinery | 649 | Shampoos | 1035 |
| Seating, church, etc. (see furniture). | | Separators, asphalt | 37 | Sewing machine needles...1127 | | Shanks, carrying | 1035 |
| Seating (opera chairs & as- sembly seating) | 797 | Separators, barley | 1030 | Sewing machine parts & supplies | 1033 | Shanks, drills, straight....327 | |
| Seating, veneer | 1176 | Separators, bean | 1030 | Sewing machine & bicycle oils | 797 | Shaper centers | 216 |
| Seats, agricultural imple- ments | 1030 | Separators, cement, plaster, etc. | 1030 | Sewing machines, bag..... | 1033 | Shapers, saw | 1035 |
| Seats, bathtub | 1030 | Separators, centrifugal | 1030 | Sewing machines, book....622 | | Shapes, pressed metal.....1035 | |
| Seats, car | 182 | Separators, coal | 1030 | Sewing machines, boot & shoe | 1033 | Shapes, stamped steel....1064 | |
| Seats, pole | 1030 | Separators, cotton seed.....1030 | | Sewing machines, button...625 | | Shapes, steel structural...1075 | |
| Seats, reversible car | 1030 | Separators, cream | 1030 | Sewing machines, button- hole | 1033 | Shaping machines | 663 |
| Seats & tanks, water closet (see plumbers' woodwork). | | Separators, dust | 1031 | Sewing machines, carpet...1033 | | Shaping machines for steel foundries | 663 |
| Secondary electric clocks ..231 | | Separators, flax | 1031 | Sewing machines, chain stitch | 1033 | Shaping machines, friction.663 | |
| Second-hand air compressors | 243 | Separators, gas & oil..... | 1031 | Sewing machines, button- room | 1119 | Shaping machines, strapping663 | |
| Second-hand barrels | 48 | Separators, grain | 1031 | Sewing machines, harness..642 | | Shaping machines, wood...663 | |
| Second-hand building ma- terials | 175 | Separators, iron & brass....1031 | | Sewing machines, hat.....1033 | | Shares, plow & lister....1035 | |
| Second-hand cars | 191 | Separators, lime & ash1031 | | Sewing machines, filling ma- chines, bag & sack..... | 619 | Sharpeners, disc | 1035 |
| | | Separators, magnetic | 1031 | Shackle bars | 50 | Sharpeners, dowel | 1036 |
| | | Separators, mud | 1031 | Shackle bolts | 82 | Sharpeners, drill steel....1036 | |
| | | Separators, pea | 1031 | Shackle hooks | 537 | Sharpeners, file | 1036 |
| | | Separators, small seed.....1031 | | | | Sharpeners, knife | 1036 |
| | | Separators, spinning frame.1129 | | | | Sharpeners, lawn mower...1036 | |
| | | Separators, steam & oil....1031 | | | | Sharpeners, mower knife...1036 | |
| | | Separators, stone | 1032 | | | Sharpeners, pencil | 1036 |
| | | Separators, vacuum | 1032 | | | Sharpeners, saw | 1036 |
| | | Separators & strainers, gas- oline | 1096 | | | Sharpeners, skate | 1036 |
| | | | | | | Sharpeners, tool | 1036 |
| | | | | | | Sharpening machines, cold saw | 631 |

| Page | Page | Page | Page |
|---|--|---|--|
| Sharpening stones1092 | Sheaves, wire & manila rope1039 | Shells, cylinder & tank..... 304 | Shoes, plle 821 |
| Shave hooks 537 | Sheaves with graphite bronze or metaline bronze.1039 | Shells, seamless pressed steel (cylinder & shells)..... 304 | Shoes, plank1042 |
| Shavers, ice1036 | Sheaves with roller bushes.1039 | Shells, seamless steel.....1040 | Shoes & dies, stampmill...1042 |
| Shavers, smoked beef.....1036 | Sheaves, wood split (see pulleys, wood split). | Shells, telephone (receivers & shells)1114 | Shook presses 908 |
| Shaves, spoke1036 | Shedders, fodder1039 | Shells, wooden1133 | Shooks, box1042 |
| Shaving machines, leather.. 645 | Sheep powers 903 | Shelves & linings, refrigerator, slate1052 | Shooks, tub, bucket, etc...1043 |
| Shaving machines, screw... 662 | Sheep shearing machines... 663 | Shelving, glass front sectional1040 | Shooting galleries, mechanical1043 |
| Shaving & slotting machines, wood screw..... 675 | Sheep shears1038 | Shelving, greenhouse, slate. 491 | Shop cars 191 |
| Shavings, baled1036 | Sheet copper & brass..... 278 | Shelving, shop1040 | Shop pails, steel..... 805 |
| Shavings, steel (wool & shavings)1079 | Sheet iron caissons 179 | Shelving, steel1040 | Shop pans 815 |
| Shavings, vinegar & brewers'1036 | Sheet iron lath..... 576 | Shelving & fittings, metallic library 583 | Shop sawing machines, iron 664 |
| Shavings, zinc1036 | Sheet iron & steel..... 560 | Shield & bolt, expansion... 79 | Shop saws1018 |
| "Shawmut" outlet blocks... 67 | Sheet iron & steel, galvanized 560 | Shields, gear1040 | Shop shelving1040 |
| "Shawmut" tested fuse links 460 | Sheet lead (see lead pipe, sheet & pig lead). | Shields, radiator 927 | Shop & engine torches.....1148 |
| Shear blades, metal..... 66 | Sheet lead rolling machines. 663 | Shields, water gauge & lubricator1040 | Shorts & bran brushes..... 111 |
| Shear cutter knives..... 569 | Sheet metal borders & friezes1039 | Shields & guards, engine... 376 | Shot machines 664 |
| Shear knives, metal..... 568 | Sheet metal brushes..... 112 | Shifter, electric light..... 351 | Shot mfrs.1043 |
| Shear knives, solid steel... 569 | Sheet metal crestings & finials 297 | Shifters, belt 58 | Shot, steel chilled.....1043 |
| Sheared steel plates & heads1074 | Sheet metal cutters..... 303 | Shims, pole1040 | Shoulder hooks (brass cup & shovel) 536 |
| Shearing machinery (punching & shearing)..... 657 | Sheet metal dies..... 312 | Shingle bands 46 | Shovel cars, steam..... 191 |
| Shearing machines, coal..... 630 | Sheet metal ferrules..... 433 | Shingle jointers 564 | Shovel chains, steam..... 220 |
| Shearing machines, hand... 642 | Sheet metal forming machines 663 | Shingle knives 569 | Shovel handle machinery... 664 |
| Shearing machines, textile.1129 | Sheet metal forms, automobile 41 | Shingle machinery, cement... 628 | Shovel handles 502 |
| Shearing presses 908 | Sheet metal gauges..... 469 | Shingle mill machinery.... 664 | Shovel machinery 664 |
| Shearing & brushing machines combined1129 | Sheet metal goods mfrs...1039 | Shingle nails 790 | Shovel plate 830 |
| Shearing & punching machines combined 658 | Sheet metal groovers..... 497 | Shingle packers 799 | Shovel plows 835 |
| Shears1036 | Sheet metal lath machines.. 663 | Shingle paints 814 | Shovel, spade & scoop mfrs.1043 |
| Shears, alligator1036 | Sheet metal mouldings..... 788 | Shingle stain oils..... 797 | Shovel rivets 945 |
| Shears, angle iron.....1036 | Sheet metal ornaments..... 798 | Shingle stains1040 | Shoveling boards 69 |
| Shears, bar & plate.....1036 | Sheet metal punches..... 925 | Shingle stains, creosote...1040 | Shovels, automatic steam...1043 |
| Shears, beam & channel...1036 | Sheet metal radiators..... 928 | Shingle & box bands..... 46 | Shovels, bakers'1043 |
| Shears, bench.....1036 | Sheet metal stamping.....1064 | Shingles, asbestos1040 | Shovels, coal1043 |
| Shears, beveling.....1036 | Sheet metal stamping & drawing1065 | Shingles, California red wood1040 | Shovels, cultivator1043 |
| Shears, billet & bloom...1036 | Sheet metal stamps & dies.1065 | Shingles, cedar1040 | Shovels, drain1043 |
| Shears, circle1037 | Sheet metal statuary.....1039 | Shingles, cement1040 | Shovels, electric1043 |
| Shears, clipping1037 | Sheet metal threading machines 669 | Shingles, cypress1040 | Shovels, fire1044 |
| Shears, cotton bale.....1037 | Sheet metal windows for fireproof construction1200 | Shingles, flat terra cotta...1040 | Shovels, hand dump.....1044 |
| Shears, crocodile1037 | Sheet metal workers' machines & tools..... 663 | Shingles, hipmetallic.....1040 | Shovels, lime1044 |
| Shears, doubling plate & sheet mill1037 | Sheet metal working presses 908 | Shingles, metallic1040 | Shovels, mining machine...1044 |
| Shears for heavy boiler plates, etc.1037 | Sheet metal & strip stock straighteners & cutters, automatic1039 | Shingles, red cedar.....1041 | Shovels, moulders'1044 |
| Shears for sheet metal work1037 | Sheet mill cars (plate & sheet mill) 191 | Ship augers 38 | Shovels, power grain1044 |
| Shears, gate or guillotine.1037 | Sheet mill machinery..... 664 | Ship baths, plunge & shower 52 | Shovels, snow1044 |
| Shears, grass (see shears, sheep, grass, etc.). | Sheet mill shears.....1037 | Ship builders1041 | Shovels, steam1044 |
| Shears, hand1037 | Sheet packing 805 | Ship building machinery... 664 | Shovels, steam, automatic...1043 |
| Shears, horse clipping.....1037 | Sheet paper cutting machines 664 | Ship carpenters' tools.....1146 | Shovels, steam, second-hand1044 |
| Shears, hydraulic1037 | Sheet pasting machines..... 664 | Ship clamps 227 | Shovels, telegraph1044 |
| Shears, lever1037 | Sheet piling 821 | Ship cleats (boat or ship)... 229 | Show case hinges 530 |
| Shears, paper box makers'1037 | Sheet platinum 832 | Ship cocks 236 | Show case pulleys 912 |
| Shears, paperhangers'1037 | Sheet steel barrels..... 48 | Ship, dock & bridge spikes.1057 | Show case sheaves, ball bearing1038 |
| Shears, plate (bar & plate).1036 | Sheet steel baskets..... 51 | Ship knees1042 | Show cases 1044 |
| Shears, plate splitting1037 | Sheet steel bathtubs..... 52 | Ship lavatories 581 | Show window fittings 443 |
| Shears, power1037 | Sheet steel ceilings..... 207 | Ship logs 592 | Shower baths..... 52 |
| Shears, pruning1037 | Sheet steel knives..... 569 | Ship mauls 767 | Shower baths, portable ... 52 |
| Shears, rotary1038 | Sheet steel piling..... 821 | Ship port lights..... 901 | Shower baths, rings 944 |
| Shears, rotary circle.....1038 | Sheet steel tote boxes..... 86 | Ship pumps 920 | Shower baths, slate1052 |
| Shears, rotary pipe cutting.1038 | Sheet wood piling interlocking 821 | Ship rivets (see rivets, boiler & tank).....1024 | Shower & needle baths ... 52 |
| Shears, rotary slitting.....1038 | Sheet work forging machines 639 | Ship scrapers1024 | Shredder knives 569 |
| Shears, scrap1038 | Sheet zinc1215 | Ship spikes1057 | Shredders & huskers, corn . 541 |
| Shears, sheep, grass lawn & hedge1038 | Sheet & pig lead mfrs..... 582 | Ship ventilating apparatus.1177 | Shrinkage rules (scale & shrinkage)1000 |
| Shears, slitting1038 | Sheet & plate, gold & silver 483 | Ship ventilators1178 | Shrinkers, tire1044 |
| Shears, splitting or plate...1038 | Sheet & wire platinum..... 832 | Ship water closets.....1186 | Shutes, package1044 |
| Shears, squaring.....1038 | Sheets, aluminum1039 | Ship & deck pumps..... 920 | Shut-off, fire hose..... 439 |
| Shears, tobacco1038 | Sheets, amalgamating, silver plated 9 | Shippers, clay (miners & shippers) 228 | Shutter bars 50 |
| Shears, vertical1038 | Sheets, copper fire box.... 278 | Shipping drums, steel..... 328 | Shutter bolts 82 |
| Shears, wire rod1038 | Sheets, German silver.....1039 | Shipping machines, manifold 645 | Shutter handles (window & shutter) 501 |
| Shears & punches, beam...1038 | Sheets, phosphor bronze... 819 | Shipping tag machines.... 664 | Shutter hinges (blind & shutter) 528 |
| Shears & punches, combined.1038 | Sheets, rubber1000 | Shipping tags1104 | Shutter latches 575 |
| Shears & punches for band saws 923 | Sheets, steel (see steel sheets, various kinds). | Shock absorbers1042 | Shutter rings 944 |
| Shears & scissors.....1038 | Sheets, steel (plates & sheets)1074 | Shock mirrors 781 | Shutter screws1029 |
| Sheathing, asbestos corrugated, reinforced..... 36 | Sheif brackets 88 | Shockers, corn1042 | Shutter sheaves1039 |
| Sheathing, building (see building, sheathing, various kinds). | Shelf hardware boxes..... 86 | Shoddy machinery1129 | Shutter workers1044 |
| Sheathing & roofing papers. 816 | Shell drills 326 | Shoddy or rag pickers.....1128 | Shutters, automatic fire ...1044 |
| Sheave blocks for derricks.. 67 | Shell end mill arbors..... 11 | Shoe blackings or polish...1042 | Shutters, fireproof (see doors & shutters, fireproof). |
| Sheave or pulley filling, rubber1038 | Shell end mills..... 780 | Shoe buttoners (glove & shoe) 178 | Shutters, iron (see shutters, steel). |
| Sheave wheels & frames...1038 | Shell mills (bone & shell).. 777 | Shoe cutters' extension blades 66 | Shutters, steel1044 |
| Sheaves, ball-bearing show-case1038 | Shell reamer arbors..... 11 | Shoe knives 569 | Shutters, steel rolling1044 |
| Sheaves, door1039 | Shell reamers 938 | Shoe last turning lathes... 579 | Shutters, wire glass1044 |
| Sheaves, door, "Grant" noiseless1039 | Shellac gum1039 | Shoe machinery 664 | Shutters, wood rolling1044 |
| Sheaves, lignumvitae wood.1039 | Shellac varnishes1174 | Shoemakers' hammers 500 | Shutters & doors, fireproof. 320 |
| Sheaves, pressed metal....1039 | Shellers, corn1039 | Shoemakers' tools1146 | Shutters & doors, fire proof, steel rolling 320 |
| Sheaves, shutter1039 | Shells, brass1040 | Shoe nails 790 | Shuttle blocks.....1129 |
| Sheaves, tackle block.....1039 | Shells, coke oven.....1040 | Shoe peg machinery..... 664 | Shuttle checks1129 |
| | | Shoe sewing machines (boot & shoe)1033 | Shuttle eyes1129 |
| | | Shoe & glove hooks..... 537 | Shuttle guards1129 |
| | | Shoeing & header vise combined, bolt 74 | Shuttle irons1129 |
| | | Shoes, brake (see brake shoes, various kinds). | Shuttle machinery 664 |
| | | Shoes, conductor & elbow.. 248 | Shuttle spindles1130 |
| | | Shoes, cutter1042 | Shuttle threads1129 |
| | | Shoes, horse, rubber1042 | Shuttles1129 |
| | | Shoes, horse & mule.....1042 | Siamese connections 249 |
| | | Shoes, ox1042 | Sickle & mower knife grinders1045 |

| | Page | | Page | | Page | | Page |
|--|------|--|------|---|------|--|------|
| Sickles, mower & reaper..... | 1045 | Silica sand..... | 1002 | Skins, roller | 1128 | Slate tubs (see laundry tubs). | |
| Side bearings | 55 | Silicate of soda | 1047 | Skip cars | 191 | Slate, unfading green..... | 1052 |
| Side delivery hay rakes | 935 | Silico, spiegel | 1057 | Skips, mining | 1048 | Slate, unfading purple & red | 1052 |
| Side dressers for side files | 1045 | Silicon alloys | 9 | Skips, stone or concrete.... | 1048 | Slate urinal slabs, etc..... | 1052 |
| Side files for saws | 1045 | Silicon, copper | 278 | Skiver knives | 569 | Slate vault lining (see burial cases & vaults, slate). | |
| Side milling cutters | 303 | Silk dyers' enameled dry poles | 1121 | Skiving knives, tanners'.... | 570 | Slate water tables..... | 1052 |
| Side path machines | 664 | Silk looms..... | 1126 | Skylight glass mfrs..... | 480 | Slaters' felt (see felts, roofing). | |
| Side rods | 949 | Silk machine wipers | 1129 | Skylight glass, rough & ribbed | 480 | Slaters' hammers | 500 |
| Sidewalk block machines.... | 664 | Silk machinery | 1129 | Skylight lift..... | 1048 | Slaters' tools | 1146 |
| Sidewalk elevators..... | 374 | Silk shades | 1034 | Skylight ventilating apparatus | 1048 | Slates, school | 1053 |
| Sidewalk elevators, electric | 370 | Silk thread spools | 1131 | Skylight wire glass...482 & 1048 | | Slating nails | 790 |
| Sidewalk glass (vault & sidewalk) | 482 | Silk twisters | 1132 | Skylight & ventilator combined | 1177 | Slats, bath tub | 1053 |
| Sidewalk hoists (see elevators, sidewalk). | | Silica or Chilian mill grinders | 495 | Skylights | 1048 | Slaughter house machinery. | 665 |
| Sidewalk lights (see vault & sidewalk lights). | | Silver anodes (gold & silver) | 10 | Skylights, bar lock system. | 1051 | Slaughter house tracking.... | 1149 |
| Sidewalk lights, prismatic (see glass, prismatic). | | Silver bullion molds (gold & silver) | 782 | Skylights, ornamental, iron. | 1051 | Slaw & vegetable knives... | 569 |
| Sidewalk scrapers | 1024 | Silver castings, German ... | 201 | Skylights, porcelain bar lock. | 1051 | Sledge handles | 502 |
| Sidewalk tile | 1137 | Silver mills (gold & silver) | 779 | Skylights, prism system (see glass mfrs., prismatic). | | Sledge handle machinery (pick & sledge) | 653 |
| Sidewalk & vault glass ... | 482 | Silver melting furnaces (gold & silver) | 455 | Skylights, 3-way prism.... | 1051 | Sledge mfrs. | 1053 |
| Sidewalk & vault light castings | 204 | Silver melting retorts | 943 | Skyros marble | 752 | Sleds (bob) | 1053 |
| Siding, elevator | 368 | Silver-plated amalgamating sheets | 9 | Slabbing machines | 664 | Sleeper clips | 230 |
| Siding, iron & steel | 998 | Silver plated tubing (gold & silver) | 1157 | Slabbing mills | 780 | Sleeve nuts | 795 |
| Siemen gas valves | 1166 | Silver plated wire (gold & silver) | 1204 | Slabs, plaster | 827 | Sleeves, dredging | 1053 |
| Sieve scalpels | 1022 | Silver screws, German..... | 1028 | Slabs, slate, morgue & dissecting | 1052 | Sleeves, floor | 444 |
| Sieves, flour | 1045 | Silver solder | 1055 | Slabs, slate urinal | 1052 | Sleeves, pipe | 1053 |
| Sieves & riddles | 943 | Silver tubing | 1158 | Slack adjusters, automatic.. | 2 | Sleeves, plumbago | 1053 |
| Sifter bolting reels | 939 | Silver wire (gold & silver). | 1204 | Slacking machines, cement.. | 628 | Sleeves, twist drill | 1053 |
| Sifters, sand | 1002 | Simplex cards | 1119 | Slacking & mixing machines, lime | 645 | Sleeves & nozzles, ladle ... | 571 |
| Sifting machinery | 664 | Singe plates | 1129 | Slag buckets | 114 | Sleeves & tees for underground construction | 1053 |
| Sifting machines (blending & sifting) | 621 | Singeing machines | 1129 | Slag cars (hot metal or slag) | 188 | Sleeving, cotton | 1053 |
| Sifting machines, stone ... | 667 | Single phase electric motors | 787 | Slag ladles | 571 | Sleigh bells | 57 |
| Sight feed lubricators ... | 596 | Single phase railway electric motors | 787 | Slag ladies & cars..... | 1051 | Sleigh shoe bolts | 82 |
| Sight feed valves | 1171 | Single phase railway system | 1047 | Slag pots | 902 | Slicers, pineapple | 1053 |
| Sight feeds, for oiling devices | 1045 | Single tube tires, pneumatic. | 1141 | Slag roofing & paving..... | 1051 | Slicers, vegetable..... | 1053 |
| Sign chains | 220 | Single & double expansion bolts | 81 | Slag trucks | 1155 | Slicing machines, beef & bacon | 620 |
| Sign flashers, electric | 1045 | Singletree lathes (neck-yoke & singletree) | 578 | Slag & cinder machines.... | 665 | Slicing machines, bread, meat, etc. | 665 |
| Sign hooks | 537 | Singletree machinery..... | 664 | Slasher combs | 1120 | Slicing & washing machines, beet | 1097 |
| Sign letters, cast iron | 582 | Singletrees, doubletrees & whiffletrees | 1047 | Slasher cylinders | 1121 | Slide rests for lathes | 1053 |
| Signal car lights | 1045 | Singletrees, hay hoisting.... | 1047 | Slasher hoods | 1124 | Slides, desk | 310 |
| Signal flags | 443 | Sink backs | 1047 | Slasher regulators | 942 | Slides, drawer | 321 |
| Signal flags, railway | 443 | Sink bolts | 82 | Slasher warpers | 1132 | Slides, toboggan | 1141 |
| Signal lamp lenses | 582 | Sink strainers | 1096 | Slashers | 1130 | Sliding blind hangers..317 & 504 | |
| Signal lamps..... | 574 | Sink & wash tray legs..... | 582 | Slashers, saw | 1017 | Sliding blinds, inside | 66 |
| Signal lamps, semaphore ... | 574 | Sinkers, die | 310 | Slate bathtubs (see laundry tubs, slate). | | Sliding door door openers... | 318 |
| Signals, block system | 1045 | Sinking pumps | 920 | Slate billiard table beds.... | 63 | Sliding door hangers..... | 317 |
| Signals, distress | 1045 | Sinks, copper & German silver | 1047 | Slate blackboards | 65 | Sliding door locks & latches | 589 |
| Signals, electric, mine | 1045 | Sinks, porcelain (see bathtubs, porcelain). | | Slate burial cases & vaults.. | 176 | Sliding door rails | 934 |
| Signals, electric, railway .. | 1045 | Sinks, slate | 1052 | Slate columns | 1051 | Sliding doors | 320 |
| Signals, elevator | 369 | Sinks, soapstone (see laundry tubs, soapstone). | | Slate discs | 313 | Sliding or folding door hangers | 317 |
| Signals, elevator, electric .. | 336 | Sinks & trays | 1047 | Slate dressing machines.... | 665 | Sliding poles, fire department | 436 |
| Signals, elevator, flash ... | 369 | Siphon pumps | 922 | Slate drilling & counter-sinking machines | 665 | Sliding & winding doors ... | 320 |
| Signals, enameled steel sign | 1045 | Siphons, sewer (see flush tanks). | | Slate drills | 327 | Slim taper files, "Weed's" .. | 434 |
| Signals, hose, electric | 540 | Sisal rope (manila & sisal).. | 999 | Slate fasteners | 1051 | Slime tables, revolving (buddles or slime tables).... | 114 |
| Signals, interlocking system. | 1045 | Sirens for fog, fire & factory signals | 1047 | Slate floor tile | 1051 | Slings, hay | 1053 |
| Signals, motor boat | 1045 | Sirens, steam | 1047 | Slate flour | 1051 | Slip joint connections | 249 |
| Signals, pneumatic | 1045 | Size, bronze | 110 | Slate for electrical purposes. | 1051 | Slitters & rewinders, knit fabric | 1124 |
| Signals, railway crossing .. | 1045 | Size, embossing | 374 | Slate gang saws | 1018 | Slitting machines | 665 |
| Signals, switch | 1045 | Size kettles..... | 565 | Slate grooving machines.... | 665 | Slitting machines, can..... | 625 |
| Signals, train order | 1045 | Size pumps | 921 | Slate laundry tubs..... | 580 | Slitting machines, duck ... | 636 |
| Signature presses | 908 | Size rolls | 1129 | Slate lintels | 1052 | Slitting saws, copper | 1018 |
| Signs, applied letters | 1045 | Sizer & former, lead pipe... | 582 | Slate machinery | 665 | Slitting saws, metal | 1018 |
| Signs, brass & bronze | 1045 | Sizers, wood turners'..... | 1048 | Slate mantel stock (see slate mill stock). | | Slitting shears | 1038 |
| Signs, car | 1046 | Sizing, decorators'..... | 1048 | Slate mantels | 749 | Slitting shears, rotary | 1038 |
| Signs, cardboard | 1046 | Sizing for whitewash..... | 1048 | Slate marbelized worth (see mantels, marbelized slate). | | Slot machine checks | 222 |
| Signs, cast iron | 1046 | Sizing machines ...664 & 1129 | | Slate, mausoleum or catacomb | 1052 | Slot machine lock mfrs. | 588 |
| Signs, celluloid | 1046 | Sizing or spooling machines | 664 | Slate mill stock..... | 1052 | Slot machines (see vending machines). | |
| Signs, chipped glass | 1046 | Sizing presses, bullet..... | 903 | Slate, morgue & dissecting slabs | 1052 | Slotting machines | 665 |
| Signs, cloth | 1046 | Sizing reels | 939 | Slate pencils | 818 | Slotting machines, locomotive frame | 665 |
| Signs, electric | 1046 | Sizing mfrs. | 1048 | Slate planers | 825 | Slotting machines, portable | 665 |
| Signs, enameled iron | 1046 | Skate sharpeners | 1036 | Slate, plumbers' | 1052 | Slotting machines, screw .. | 662 |
| Signs, enameled iron station | 1046 | Skate straps | 1096 | Slate quarry trucks..... | 1155 | Slotting machines, wood screw | 675 |
| Signs, etched metal | 1046 | Skein dryers | 1121 | Slate radiator tops..... | 1052 | Slotting machines, die ... | 634 |
| Signs, folded edge fibre, for freight cars | 1046 | Skein dyeing machines..... | 1122 | Slate refrigerators linings & shelves | 1052 | Slubbing frames | 1123 |
| Signs, glass | 1046 | Skein presses | 908 | Slate register frames or borders | 1052 | Slubbing machines | 1130 |
| Signs, glass advertising ... | 1046 | Skein screws | 1029 | Slate roofers (see roofers). | | Sluice gates | 467 |
| Signs, illuminating | 1046 | Skein setters | 1032 | Slate roofing | 996 | Slurry tanks | 1109 |
| Signs, litho., metal | 1046 | Skein winders | 1133 | Slate rubbing beds..... | 1000 | Small nails | 790 |
| Signs, metal | 769 | Skein & measuring reels. | 1128 | Slate shower baths..... | 1052 | Small seed separators..... | 1031 |
| Signs, metal engraved | 1046 | Skeinings, wagon | 1048 | Slate sills | 1052 | Small springs | 1061 |
| Signs, metal, etc. | 1046 | Skelns, wagon | 1048 | Slate sinks | 1052 | Smashers, potato | 902 |
| Signs, muslin | 1046 | Skelp, iron & steel..... | 561 | Slate stair treads & risers. | 1052 | Smashing machinery..... | 665 |
| Signs, rope fibre | 1046 | Skewer machinery | 664 | Slate switchboards, electric (see switchboards, light & power). | | Smelter barrows | 49 |
| Signs, steel | 1046 | Skewer machinery, butchers'. | 625 | Slate table tops..... | 1052 | Smelters & refiners..... | 1053 |
| Signs, street | 1046 | Skewers, steel, meat..... | 1048 | Slate tables & shelving, greenhouse | 491 | Smelting equipments, copper | 278 |
| Signs, talking | 1046 | Skewers, textile | 1129 | Slate tanks | 1052 | Smelting furnaces | 457 |
| Signs, tin | 1046 | Skid excavators | 426 | Slate tile (see slate floor tile). | | Smelting kettles..... | 665 |
| Signs, wagon | 1046 | Skidders, log | 592 | Slate trimmers | 1151 | Smelting machinery | 665 |
| Signs, wire | 1046 | Skids | 1048 | | | | |
| Signs, wood | 1047 | Skidding tongs (see tools, logging & lumberman's). | | | | | |
| Silex linings for tube mills. | 1047 | | | | | | |
| Silica brick mfrs..... | 107 | | | | | | |
| Silica graphite paints..... | 814 | | | | | | |
| Silica mfrs..... | 1047 | | | | | | |

| | Page | | Page | | Page | | Page |
|---|-------------|--|------------|---|------|--|------|
| Smelting plants, complete equipment | 1053 | Solder for aluminum | 1055 | Specialties, glass, blown & pressed | 480 | Spiral mouldings | 788 |
| Smelting work castings | 204 | Solder, gold & silver | 1055 | Specialties, hardware | 508 | Spiral or coil springs..... | 1059 |
| Smoke consumers | 1053 | Solder mfrs. | 1055 | Specialties, metal | 768 | Spiral riveted pipe..... | 823 |
| Smoke house builders | 1053 | Solder molds | 783 | Specialties, porcelain (elec- trical, mechanical, etc.).. | 901 | Spiral springs (coil or spiral) | 1059 |
| Smoke jacks, round house..... | 1053 | Solder, rosin core | 1055 | Specialties, stationers' | 1066 | Spiral stairs | 1063 |
| Smoke jacks, round house, fire clay..... | 999 | Soldering (see soldering paste, salts & stick). | | Specialties, zinc | 1215 | Spiral tenon knives..... | 569 |
| Smoke protectors | 909 | Soldering apparatus for rail bonding | 1055 | Specifications for architects & builders | 1057 | Spiral twist brushes..... | 112 |
| Smoke stack paints | 814 | Soldering coppers | 1055 | Speed changing gears (trans- mission or speed chang- ing) | 472 | Spiral & rope wood turning (see mouldings, various kinds). | |
| Smoke stacks, self-support- ing (see chimneys, steel). | | Soldering flux (see soldering paste, etc.) | | Speed changing pulleys.... | 912 | Spirits, colonial | 1058 |
| Smoke stacks, steel | 1054 | Soldering frames & cylin- ders | 1056 | Speed controllers, electric.. | 272 | Spirits, wood | 1058 |
| Smoke test machines..... | 665 | Soldering furnaces (see plumbers' & tinners' fur- naces) | | Speed controllers, mechani- cal | 273 | Spittoons (see cuspidors). | |
| Smoked beef shavers | 1036 | Soldering furnaces, gas | 455 | Speed counters, spindle.... | 1120 | Spittoons, steel factory.... | 1058 |
| Smokeless furnaces | 458 | Soldering iron handles | 501 | Speed indicating meters.... | 769 | Splice bars (see rail braces & fastenings) | |
| Smooth-on cements & com- pounds | 1054 | Soldering iron & blow torch combined, gasoline | 1056 | Speed indicators | 543 | Splice plates | 831 |
| "Smooth-On" corrugated iron gaskets | 463 | Soldering irons, electric..... | 1056 | Speed indicators (electric)... | 542 | Splicing clamps, linemen's.. | 227 |
| Smooth surface roofing..... | 997 | Soldering irons, self heating.. | 1056 | Speed lathes | 579 | Splicing compounds | 241 |
| Snap gauges | 469 | Soldering machinery | 665 | Speed limit engine stops... 376 | | Splicing machines | 1131 |
| Snap hooks | 537 | Soldering paste, salts & sticks | 1056 | Speed recorders (pressure & speed) | 938 | Splicing wrenches | 1214 |
| Snap switches, ordinary..... | 1102 | Soldering pots | 902 | Speed recording, railway.... | 1057 | Splining or keyseat gauges. 468 | |
| Snap swivels | 1103 | Soldering sets | 1056 | Speed regulators | 942 | Split collars | 239 |
| Snap & push switches | 1102 | Soldering unions & nipples.. | 1162 | Speed transmission, Reeves' variable system of..... | 1057 | Split links | 586 |
| Snaps, harness, etc..... | 1054 | Sole leather rolling ma- chines | 665 | Speeders, drill | 322 | Split switches | 1102 |
| Snaps, hitching | 1054 | Solenoid brakes..... | 89 | Speedometers | 1057 | Split and whole pulleys, "American" | 910 |
| Snaps, swivel | 1054 | Solenoid magnets | 744 | Spelter mfrs. | 1057 | Splitter knives | 569 |
| Snatch blocks, for wire rope 68 | | Solenoid switches | 1102 | Spencer stock oilers..... | 1131 | Splitter knives, cordwood.. 567 | |
| Snatch blocks, iron & wood 68 | | Solenoids, magnetic | 1056 | Spherometers | 1057 | Splitting knives, leather.... 568 | |
| Snaths, scythe..... | 1029 | Solid bolt dies..... | 312 | Spice mills | 1057 | Splitting machines | 666 |
| Snifting valves | 1171 | Solid box vises..... | 1181 | Spice or coffee mills..... | 778 | Splitting machines (see kindling, wood machinery). | |
| Snippers, bean | 1054 | Solid copper double-seamed bath tubs | 51 | Spice & coffee mill machin- ery | 631 | Splitting machines, corn.... 633 | |
| Snips, pipe | 1054 | Solid cotton belting..... | 62 | Spiegel, silico | 1057 | Splitting machines, leather. 645 | |
| Snips (tinners') | 1054 | Solid die hot rivet heading machines | 665 | Spiegeleisen | 1057 | Splitting shears | 1038 |
| Snow flanges | 443 | Solid dies | 312 | Spike bars, mine..... | 50 | Splitting shears, plate..... | 1037 |
| Snow guards, roof | 956 | Solid metallic doors..... | 320 | Spike machinery | 666 | Splitting & sawing machin- ery, wood | 675 |
| Snow plow wheels, "Never Slip" | 1194 | Solid punches | 925 | Spike mfrs. | 1057 | Spoke lathe knives..... | 569 |
| Snow plows | 835 | Solid reamers | 938 | Spike or railroad mauls.... 767 | | Spoke machinery (hub, spoke & rim) | 643 |
| Snow shovels | 1044 | Solid steel copper froes.... 278 | | Spike pullers | 910 | Spoke pointers | 900 |
| Snuff factory machinery .. | 665 | Solid steel shear knives.... 569 | | Spikes, boat (see spikes, ship) | | Spoke shaves | 1036 |
| Soap containers, liquid .. | 1054 | Solid tires | 1141 | Spikes, bridge (ship, etc).... | 1057 | Spoke threaders, bicycle.... 63 | |
| Soap dies, engraved | 311 | Solid & liquid asphalt..... 37 | | Spikes, composition, boat... 1057 | | Spoke trimmers | 1152 |
| Soap dryers | 331 | Sorters, bean & pea..... | 1056 | Spikes, countersunk | 1057 | Spoke wire | 1207 |
| Soap, harness | 1054 | Sorters, potato | 1056 | Spikes, cut | 1057 | Sponges, rubber | 1058 |
| Soap machinery (toilet soap) 670 | | Sorting machines, automatic package | 650 | Spikes, dock (ship, etc.).... 1057 | | Spool elevators | 1122 |
| Soap makers' machinery .. | 665 | Sorting machines, bean & seed | 620 | Spikes, hand | 1057 | Spool lathes | 579 |
| Soap mixing machines | 665 | Sounding boards | 69 | Spikes, hand-made | 1057 | Spool machinery | 666 |
| Soap tanks | 1109 | Sounding, foundation, for heavy buildings, etc..... | 449 | Spikes, railroad track..... | 1057 | Spool mfrs. | 1131 |
| Soaping machines | 1130 | Sounding leads | 582 | Spikes, rubber | 1057 | Spool stranding machines.. 666 | |
| Soaps, mill | 1126 | Sounding lines, deep sea.... 1056 | | Spikes, ship, dock & bridge.. 1057 | | Spool stranding & armoring machines | 666 |
| Soapstone | 1054 | Southern hardwood lumber.. 618 | | Spikes, wire | 1058 | Spool & bobbin machinery... 666 | |
| Soapstone cooking griddles . 277 | | Sowers, hand seed | 1056 | Spindles, banding | 1130 | Spooler guides | 1131 |
| Soapstone foot warmers .. | 446 | Sowers, plaster | 1056 | Spindle bolsters | 1130 | Spooler knotters | 1125 |
| Soapstone for electrical work | 1054 | Sowers & drills, hand seed garden | 1056 | Spindle carving machines... 666 | | Spooler spindles | 1130 |
| Soapstone for lubricants .. | 1054 | Sowers & seeders..... | 1030 | Spindle crushers | 298 | Spooler stop motions..... | 1126 |
| Soapstone, ground | 1054 | Spade handles | 502 | Spindle drills, multiple.... 325 | | Spoolers, cotton | 1131 |
| Soapstone laundry tubs | 580 | Spade & scoop mfrs..... | 1043 | Spindle hook bands..... | 1130 | Spoolers, doubling | 1131 |
| Soapstone & talc pencils .. | 818 | Spades, tiling | 1056 | Spindle speed counters.... | 1120 | Spoolers, dresser | 1131 |
| Socket bushings, rubber .. | 1054 | Spading harrows | 515 | Spindle tubes, worsted.... | 1130 | Spoolers, drum | 1131 |
| Socket wrenches | 1214 | Span wire or rising forks (see forks, rising). | | Spindle & bobbin gears..... | 1130 | Spoolers, woolen & worsted. 1131 | |
| Sockets, Andrew's | 1054 | Spanish shapes terra cotta roofing tile | 998 | Spindles | 1130 | Spoolers, yarn | 1131 |
| Sockets, drill | 1054 | Spanner wrenches | 1214 | Spindles, clamp | 1058 | Spooling machines, wire... 673 | |
| Sockets, electric lamp | 1055 | Spar, fluor | 446 | Spindles, cop | 1130 | Spools | 1131 |
| Sockets, flag pole | 1055 | Spark arresters | 36 | Spindles, dresser | 1130 | Spools, dresser, steel head.. 1131 | |
| Sockets, grip | 1055 | Spark arresters for traction engines | 36 | Spindles, lathe | 1058 | Spools, jack, steel head.... 1131 | |
| Sockets, incandescent lamp 572 | | Spark coils | 238 | Spindles, reel | 1130 | Spools, pressed steel..... | 1058 |
| Sockets, ladder | 1055 | Spark plugs | 836 | Spindles, shuttle | 1130 | Spools, silk thread..... | 1131 |
| Sockets, lathe | 1055 | Spark timers | 1138 | Spindles, spooler | 1130 | Spools, warp | 1131 |
| Sockets, "Morse" taper .. | 1055 | Sparkling magnetos (see ig- niters) | | Spinning chucks | 225 | Spoon & fork machinery... 666 | |
| Sockets, standard | 1055 | Sparkling points | 900 | Spinning cylinders..... | 1121 | Spoons, aluminum | 1058 |
| Sockets, twist drill | 1055 | Spars | 766 & 1056 | Spinning frame separators.. 1129 | | Spoons, basting & mixing... 1058 | |
| Sockets, waterproof..... | 1055 | Spars, derrick | 309 | Spinning frames | 1123 | Spoons, digging | 1058 |
| Sockets, wire rope | 1055 | Speaking tubes | 1057 | Spinning frames, ring..... | 1123 | Spoons, measuring | 1058 |
| Sod & dirt tampers | 1104 | Spear heads, flag & banner.. 1057 | | Spinning frames, wool..... | 1123 | Spoons, rock drilling..... | 1058 |
| Soda ash | 1055 | Spears, fish | 1057 | Spinning lathes | 579 | Spoons, telegraph | 1058 |
| Soda, caustic | 207 | Special designs, valves.... | 1171 | Spinning machinery (see frames, also mules) | | Spoons, tin | 1058 |
| Soda fountain tanks | 1109 | Special hinges | 530 | Spinning machines, jute... 1130 | | Spoons, wooden | 1058 |
| Soda kettles, tool cleaning. 565 | | Special machinery | 665 | Spinning machines, rivet... 659 | | Sportsmen's knives | 569 |
| Soda, silicate of | 1047 | Special nails | 790 | Spinning machines, taper tube | 668 | Spray hoods | 536 |
| Soda sulphate | 1099 | Special narrow jaw wrenches | 1214 | Spinning, metal | 1058 | Spray nozzles | 793 |
| Soda water fountains | 452 | Special pins..... | 822 | Spinning, rings | 1130 | Spray pumps | 921 |
| Sodium sulphate | 1099 | Special stampings | 1064 | Spinning travelers (see trav- elers, ring) | | Sprayers, foundry | 1058 |
| Sodium sulphide | 1055 | Special wire shapes..... | 1207 | Spinning tubes | 1130 | Spraying apparatus (see pumps, spraying) .. | |
| Soft steel | 1074 | | | Spinning & twisting travelers (see travelers, ring) .. | | Spraying machines | 666 |
| Soft steel hoops | 537 | | | Spiral bearings | 55 | Spraying machines, paint.. 650 | |
| Soft weldless steel flanges.. 443 | | | | Spiral conveyors | 276 | Spraying machines, white- wash | 672 |
| Softeners, cotton..... | 1055 & 1120 | | | Spiral gears (see gears, cut). | | Sprays, painting, com- pressed air | 809 |
| Softening & purifying appa- ratus, water..... | 1188 | | | Spiral gravity conveyors.... 275 | | Spreader cars | 191 |
| Soil cups, plumbers' | 299 | | | Spiral knives, of all classes. 569 | | Spreader chains | 220 |
| Soil pipe cements, cast iron. 213 | | | | Spiral lock seam pipe..... | 823 | Spreaders, concrete | 1058 |
| Soil pipe testing plugs .. | 836 | | | Spiral mill cutters..... | 303 | Spreaders, lime | 1058 |
| Soil pipe & fittings, cast iron | 194 | | | | | Spreaders, manure | 1058 |
| Soil, plumbers' | 893 | | | | | Spreaders, rubber mill.... | 1058 |
| Solder, brass, spelter | 1055 | | | | | Spreaders, tar | 1058 |
| Solder cutters | 303 | | | | | Spreading carts, road..... | 193 |

| | Page | | Page | | Page | | Page |
|--|------|--|------|--|------|--|------|
| Spring balances | 45 | Sprinkling cars, street rail- way | 191 | Stamped steel shapes & spe- cial stampings | 1064 | Stave planers (see barrel machinery) | |
| Spring balances, locomotive | 589 | Sprinkling carts | 193 | Stamped ware, steel sheets for | 1074 | Stave sawing machines | 667 |
| Spring bed machinery | 666 | Sprinkling machines | 1131 | Stamping, aluminum | 1064 | Stave tumbling mills | 780 |
| Spring bending presses, hy- draulic | 906 | Sprocket cutters | 303 | Stamping, automobile | 1064 | Stave wagons | 1182 |
| Spring butt hinges | 530 | Sprocket wheel chains | 220 | Stamping, brass | 1064 | Stave & heading machinery | 667 |
| Spring calipers | 179 | Sprocket wheels | 1195 | Stamping dies | 312 | Stave & heading machinery, barrel & keg | 620 |
| Spring chucks | 225 | Sprocket wrenches | 1214 | Stamping machines, adjust- able | 666 | Staves, rail buck | 928 |
| Spring coiling machines | 666 | Sprockets, roller & block chain | 1061 | Stamping machines, cloth | 1119 | Stay-bolt breakers, pneu- matic | 898 |
| Spring colling machines, wire | 673 | Sprue cutters, foot or power | 303 | Stamping machines, leather | 645 | Stay-bolt chucks, pneumatic | 898 |
| Spring cotters | 288 | Spun brass flanges | 443 | Stamping machines, steel | 1065 | Stay-bolt clippers, pneumatic | 898 |
| Spring dampener | 1058 | Spur gears (see gears, cut) | | Stamping outfits | 1064 | Stay-bolt cutters | 303 |
| Spring door hinges | 530 | Spur grinders | 495 | Stamping presses | 908 | Stay-bolt cutters, pneumatic | 899 |
| Spring door mfrs. (check & spring) | 315 | Spurs & points, ladder | 1061 | Stamping presses (gilding & stamping) | 905 | Stay-bolt iron | 558 |
| Spring floor hinges | 530 | Square seamless steel tub- ing | 1158 | Stamping, sheet metal | 1064 | Stay-bolt taps | 1113 |
| Spring hinges (see hinges, spring, various kinds) | | Square tubing | 1158 | Stamping works | 1065 | Stay-bolt treading ma- chines | 667 |
| Spring key cocks | 236 | Square wire | 1207 | Stamping & drawing, sheet metal | 1065 | Stay-bolt wrenches | 1214 |
| Spring knitting needles | 1127 | Square & gauge combined | 1062 | Stampings, aluminum | 9 | Stay-bolts | 1066 |
| Spring knotting machines | 666 | Squares, bevel | 1062 | Stampings, automobile | 41 | Stay nails | 790 |
| Spring latches | 575 | Squares, caliper | 1062 | Stamps, rubber | 1065 | Stay rollers, barn door | 949 |
| Spring machinery, car & car- riage | 626 | Squares, center | 1062 | Stamps, shoes & dies (see shoes & dies, stamp mill) | | Staying machines, automatic | 667 |
| Spring machinery, elliptic | 637 | Squares, combination | 1062 | Stamps, steel | 1065 | Staying machines, corner | 633 |
| Spring machinery, wire | 673 | Squares, hip & valley, cut | 1062 | Stamps, steel log | 1065 | Stays, chain | 217 |
| Spring mops | 783 | Squares, iron & steel | 1062 | Stamps, time | 1065 | Stays, fence | 1066 |
| Spring oilers | 797 | Squares, machinists' | 1062 | Stamps, trade mark | 1131 | Stays, stair rail | 1066 |
| Spring or prong dies | 312 | Squares, pitch-cut | 938 | Stamps & dies, sheet metal | 1065 | Steak pounders | 902 |
| Spring plates, pressed steel | 831 | Squares, reamer | 1062 | Stamps & dies, steel | 1065 | Steam accumulators | 1 |
| Spring punches | 925 | Squares, T | 1062 | Standards, cattle | 1065 | Steam air valves | 1171 |
| Spring rail frogs | 453 | Squares, try & mitre | 1062 | Standards, pipe nozzles | 793 | Steam asphalt rollers | 951 |
| Spring scales | 1021 | Squaring shears | 1038 | Stand pipe valves | 1171 | Steam board lifters | 69 |
| Spring steel | 1074 | Squeezers | 1131 | Stand pipes | 1065 | Steam boiler insurance & in- spection | 547 |
| Spring testing machines | 669 | Squeezers, lemon | 1062 | Standard resistances | 942 | Steam boilers (see boilers, various kinds) | |
| Spring tooth harrows | 515 | Squeezers, rotary | 1062 | Standard sockets | 1055 | Steam boxes | 1118 |
| Springs, agricultural imple- ment | 1058 | Squib boxes, miners' | 86 | Stands, band saw (pulleys & stands) | 912 | Steam cant flippers | 181 |
| Springs, air brake | 1058 | Squibs, miners' | 1062 | Stands, floor, for valves | 444 | Steam car trucks | 1154 |
| Springs, automobile | 1058 | Stable brooms | 111 | Stands, heck | 1124 | Steam clothes dryers | 232 |
| Springs, bed | 1059 | Stable door hooks | 537 | Stands, indicator | 1066 | Steam coal buckets, auto- matic | 233 |
| Springs, bicycle | 1059 | Stable fixtures | 1062 | Stands, mule pulley | 1066 | Steam cocks | 236 |
| Springs, bolster | 1059 | Stable flooring | 444 | Stands, range boiler | 72 | Steam compressors | 243 |
| Springs, brush holder | 1059 | Stable or stall floors | 1063 | Stands, swage block | 1100 | Steam condensers | 247 |
| Springs, car | 1059 | Stacker rakes for threshers | 935 | Stands, switch | 1101 | Steam derricks (see der- ricks) | |
| Springs, car fender | 1059 | Stackers, hay | 1063 | Stands, truing bicycle wheel | 63 | Steam drying barrels | 48 |
| Springs, car seat | 1059 | Stackers, lumber | 1063 | Stands, typewriter | 1161 | Steam engine governors | 484 |
| Springs, carriage & wagon | 1059 | Stackers, straw | 1063 | Stands, umbrella | 1066 | Steam engine indicators | 543 |
| Springs, children's carriage, etc. | 1059 | Stacks, steel (see chimneys, steel) | | Staple machines | 666 | Steam engine lubricators | 596 |
| Springs, clock, music box, etc. | 1059 | Staff, plaster mfrs. | 827 | Staple mfrs. | 1066 | Steam engines | 422 |
| Springs, coil or spiral | 1059 | Stage announcers | 1063 | Staple pullers | 910 | Steam excavators | 426 |
| Springs, compression | 1060 | Stage lighting appliances, electric | 1063 | Staple setting machines (rivet & staple setting) | 659 | Steam feed valves | 1171 |
| Springs, compression (ex- tension & compression) | 1060 | Stage screws | 1029 | Staple wire (rivet, staple, etc.) | 1206 | Steam feeds | 1066 |
| Springs, cultivator | 1060 | Staging brackets | 88 | Staples, bar | 1066 | Steam fire engines | 436 |
| Springs, door | 1060 | Stained glass substitute | 1063 | Staples, insulated | 1066 | Steam fire extinguishers | 439 |
| Springs, draft | 1060 | Stainers, glass | 480 | Staples, insulating saddle | 546 | Steam fitters' castings (see fittings, various kinds) | |
| Springs, elliptic | 1060 | Stainers', glass, supplies | 481 | Staples & hasps | 517 | Steam fitters' supplies, "job- bers" | 1066 |
| Springs, engine house door | 1060 | Stainless Portland cements | 216 | Stapling machinery, wire | 1066 | Steam flue welding | 1190 |
| Springs, extension & com- pression | 1060 | Stain-off, for cleaning & polishing | 1063 | Stapling machines | 666 | Steam gang plows | 834 |
| Springs, fish plate | 1060 | Stains, oil (see wood stains) | | Staples, iron | 1066 | Steam, gas & water valves | 1162 |
| Springs, friction draft | 1060 | Stains, shingle | 1040 | Stapling machines | 666 | Steam gauge syphons | 1103 |
| Springs, furniture & uphol- stering | 1060 | Stains, shingle, creosote | 1040 | Stapling machines | 666 | Steam gauges | 469 |
| Springs, gate | 1060 | Stains, wood | 1210 | Star drills | 327 | Steam golf course rollers | 951 |
| Springs, governor | 1060 | Stair builders, iron | 557 | Starch factory machinery | 666 | Steam hammer dies | 312 |
| Springs, grain drill | 1060 | Stair builders' supplies | 1063 | Starch presses | 908 | Steam hammers | 500 |
| Springs, helical | 1060 | Stair corners | 1063 | Stars, iron | 1066 | Steam heat regulators for train service | 942 |
| Springs, locomotive | 1060 | Stair gauges | 469 | Starters, automobile, engine 376 & 1066 | | Steam heaters | 519 |
| Springs, machinery | 1060 | Stair nosing | 1063 | Starters, bung | 176 | Steam heaters, trade names | 521 |
| Springs, music box (clock, box, etc.) | 1059 | Stair plates | 831 | Starters, motor (see rheo- stats) | | Steam heating apparatus | 1071 |
| Springs, oil tempered | 1060 | Stair rail stays | 1066 | Starters, self | 1066 | Steam heating contractors | 524 |
| Springs, picker rod | 1127 | Stair rods | 949 | Starters' whistles (conduc- tors & starters) | 1196 | Steam hoists | 534 |
| Springs, pipe bending | 1060 | Stair routing machines | 666 | Starting exhausters, pump & engine | 428 | Steam hose | 539 |
| Springs, refrigerator door | 1061 | Stair treads, brass | 1063 | Static electric machines | 666 | Steam jacket kettles | 565 |
| Springs, rubber | 1061 | Stair treads, carborundum | 1063 | Static transformers | 1149 | Steam jacketed kettles, aluminum | 565 |
| Springs, rubber channeler | 1061 | Stair treads, cast iron | 1063 | Station indicators | 543 | Steam jet exhausters | 428 |
| Springs, small, etc. | 1061 | Stair treads, hard brass | 1063 | Station lamps | 574 | Steam joint clamps | 227 |
| Springs, spiral (coll & spiral) | 1059 | Stair treads, lead | 1063 | Stationary ranges (portable & stationary) | 936 | Steam joint pipe clamps (see clamps, pipe) | |
| Springs, track scraper | 1061 | Stair treads, rubber (see mats & matting, rubber) | | Stationary & movable benches | 62 | Steam marine engines | 420 |
| Springs, trolley | 1061 | Stair treads, wrought steel | 1063 | Stationers' specialties | 1066 | Steam meters | 770 |
| Springs, upholstery (fur- niture & upholstery) | 1060 | Stair treads & risers, slate | 1052 | Stationery blanks & mani- fests, railroad | 929 | Steam, mill & garden hose | 539 |
| Springs, valve | 1061 | Stairs, spiral | 1063 | Stations or water columns, railroad | 1186 | Steam or mud drums | 328 |
| Springs, wagon (carriage & wagon) | 1059 | Stairways, moving | 1064 | Statuary, bronze (monu- ments & statuary) | 110 | Steam packing (see packing mfrs.) | |
| Springs, window | 1061 | Stake holders | 535 | Statuary, marble | 752 | Steam pile drivers (see pile driving machinery) | |
| Springs, window burglar alarm | 1200 | Stake pockets for cars | 1064 | Statuary, sheet metal | 1039 | Steam pipe casing | 194 |
| Springs, wire | 1061 | Stake tacks & hatches | 1064 | Statuary & monuments, white bronze | 1066 | Steam pipe collars | 239 |
| Sprinklers, automatic fire | 1061 | Stakes, logging car | 1064 | Stave cutter knives | 569 | Steam pipe fittings | 443 |
| Sprinklers, hose, bath, cock, etc. | 1061 | Stakes, lumber | 1064 | Stave jointers | 564 | Steam plowing outfits | 834 |
| Sprinklers, lawn | 581 | Stakes, tanners' | 1064 | Stave jointing machines | 667 | Steam presses | 1128 |
| Sprinklers, park | 1061 | Staking machines, leather | 645 | Stave jointing machines, band saw | 620 | Steam proof paints | 814 |
| Sprinklers, potato | 1061 | Stalk cutters | 303 | | | Steam pumps | 921 |
| Sprinklers, steel foundry | 452 | Stalk rakes | 935 | | | Steam pumps, deep artesian well | 916 |
| | | Stall door lock mfrs. | 588 | | | | |
| | | Stamp batteries | 52 | | | | |
| | | Stamp mill shoes & dies | 1042 | | | | |
| | | Stamp mills | 780 | | | | |
| | | Stamped copper ware | 278 | | | | |
| | | Stamped electrical parts & fittings | 362 | | | | |
| | | Stamped parts for cream separators | 1064 | | | | |

| Page | Page | Page | Page |
|--|--|---|---|
| Steam radiators (hot water & steam).....927 | Steel chilled shot.....1043 | Steel meat skewers.....1048 | Steel sheets for stamped ware.....1074 |
| Steam railway traps.....1150 | Steel chimneys.....222 | Steel melting furnaces.....458 | Steel sheets, planished & polished.....1074 |
| Steam revolving pans.....815 | Steel clamps.....227 | Steel, metal wheel.....1073 | Steel shells, seamless.....1040 |
| Steam riveting machines.....659 | Steel clips, structural.....230 | Steel metric rules.....1001 | Steel shelving.....1040 |
| Steam road rollers.....951 | Steel coal tipples & trestles.....233 | Steel mfrs.' alloys.....8 | Steel shipping drums.....328 |
| Steam rock drills.....326 | Steel, cold drawn.....1071 | Steel mfrs., emery.....374 | Steel shop kegs.....565 |
| Steam rollers, asphalt (see road rollers, steam).....1016 | Steel, cold pressed.....1071 | Steel mine & mill buildings, constructors of.....1073 | Steel shop pails.....805 |
| Steam saw mill feeds.....1016 | Steel, cold rolled.....1071 | Steel mining or dump cars.....191 | Steel shot, chilled.....1043 |
| Steam separators.....1031 | Steel, cold rolled, strip.....1072 | Steel mouldings.....788 | Steel shovel plate.....1074 |
| Steam shipping drums.....328 | Steel colors.....240 | Steel mouldings, ornamental elevator.....368 | Steel shutters.....1044 |
| Steam shovel cars.....191 | Steel concrete fireproofing, Ferroinclave.....440 | Steel needle wire.....1207 | Steel shutters, rolling.....1044 |
| Steam shovel chains.....220 | Steel concrete reinforcing materials.....245 | Steel, nickel.....1073 | Steel signs.....1046 |
| Steam shovels.....1044 | Steel, conductor pipe & cave trough.....1072 | Steel or wood election booths.....336 | Steel skelp.....561 |
| Steam shovels, automatic.....1043 | Steel construction (see steel structural work).....1072 | Steel ornaments.....798 | Steel slip zinc coated nip- ples.....792 |
| Steam shovels, second-hand.....1044 | Steel, copper clad.....1072 | Steel pens.....818 | Steel smoke stacks.....1054 |
| Steam sirens.....1047 | Steel construction, re-en- forced concrete.....245 | Steel picket fences (iron & steel).....431 | Steel, soft.....1074 |
| Steam specialties (see engi- neers' supplies).....1099 | Steel corner beads, plaster- ers'.....829 | Steel pickets.....999 | Steel specialties, pressed.....903 |
| Steam superheaters.....1099 | Steel corrugated awnings.....42 | Steel piling, interlocking.....821 | Steel spikes (see spikes va- rious kinds).....1074 |
| Steam syrens.....1047 | Steel corrugated gaskets.....465 | Steel pipe (see pipe & tube mills).....228 | Steel spring.....1207 |
| Steam tables (see cooking apparatus).....1150 | Steel, corrugated (iron & steel).....559 | Steel pipe clamps.....228 | Steel spring wire.....1207 |
| Steam thermometers (see thermometers, heating).....1150 | Steel cross arms, brackets, etc.....297 | Steel planers (iron & steel).....825 | Steel squares.....1062 |
| Steam traps.....1150 | Steel crucibles.....297 | Steel plate.....1073 | Steel stamps.....1065 |
| Steam turbine pumps.....921 | Steel, crushed, for polishing granite, etc.....297 | Steel plate ash chutes.....37 | Steel stamps & dies.....1065 |
| Steam turbines.....1158 | Steel, dasher.....1072 | Steel plate chutes.....225 | Steel stone saw blades.....1091 |
| Steam whistles.....1196 | Steel derricks.....309 | Steel plate work.....1073 | Steel structural dealers.....1075 |
| Steam & hot water heaters.....519 | Steel dowels.....206 | Steel plates & heads, sheared.....1074 | Steel structural shapes.....1075 |
| Steam & hot water regula- tors.....942 | Steel dredge castings.....333 | Steel plates & sheets.....1074 | Steel, Swedish (iron & steel).....561 |
| Steam & hot water ther- mometers.....1134 | Steel dumbwaiters.....336 | Steel plow beams.....832 | Steel switching & wrecking rope.....995 |
| Steam & hot water trade names.....521 | Steel election booths.....336 | Steel posts.....901 | Steel tables.....1103 |
| Steaming machines.....1131 | Steel, electrical (see iron & steel sheet electrical).....831 | Steel, powder kegs.....565 & 1074 | Steel, tack plate.....1078 |
| Stearic acid.....1 | Steel etching plates.....1072 | Steel, pressed.....1074 | Steel tanks (see tanks, steel, various kinds).....1109 |
| Stearine machinery.....667 | Steel factory equipments.....1058 | Steel pressed boiler heads.....71 | Steel tanks, glass lined.....1109 |
| Steel, agricultural imple- ment.....1071 | Steel fasteners, corrugated.....429 | Steel projectiles.....909 | Steel telephone & telegraph wire.....1207 |
| Steel alkali drum.....1071 | Steel fence pickets.....819 | Steel railroad ties.....1136 | Steel theatre curtains.....1133 |
| Steel alphabets & figures.....9 | Steel ferrules.....432 | Steel rails.....934 | Steel thread board.....1131 |
| Steel, aluminum & bronze clad.....1071 | Steel filing equipments.....1072 | Steel range, boiler.....1074 | Steel tipples & trestles.....1079 |
| Steel angles, channels, etc. (iron & steel).....558 | Steel fillers (iron & steel).....560 | Steel ranges.....936 | Steel tired car wheels.....1195 |
| Steel annealing furnace.....458 | Steel fire box plate.....830 | Steel reels.....939 | Steel tired driving wheels.....1193 |
| Steel arch centers.....216 | Steel fish plates.....830 | Steel rings.....944 | Steel tires.....1141 |
| Steel armor protected hose.....540 | Steel fittings, vitreous en- ameled.....443 | Steel riveted hydraulic pipe.....822 | Steel toe calks.....1141 |
| Steel armored hose, flexible.....539 | Steel flag poles.....900 | Steel riveted pipe.....823 | Steel tool.....1079 |
| Steel, automobile sheets.....1071 | Steel floating dry docks.....329 | Steel rod furniture.....460 | Steel towers (see towers & tanks, water).....1148 |
| Steel awnings, corrugated.....42 | Steel floor plates.....830 | Steel rods (see rods various kinds).....299 | Steel toys.....900 |
| Steel axles (see axles, va- rious kinds).....1207 | Steel flooring fireproofing, multiplex.....441 | Steel rolling curtains.....299 | Steel trolley poles.....1195 |
| Steel ball wire.....45 | Steel folding gates (see gates, folding).....447 | Steel rolling doors (see shutters, steel rolling).....320 | Steel truck wheels.....1195 |
| Steel ballot boxes.....45 | Steel forgings (iron & steel).....447 | Steel rolling doors & shut- ters, fireproof.....320 | Steel trucks, gasoline en- gine.....1155 |
| Steel band & hoop (iron & steel).....558 | Steel foundry sprinklers.....452 | Steel rolling mills.....951 | Steel tubing.....1153 |
| Steel bar (iron & steel).....558 | Steel frame folding barrows.....48 | Steel rolling partitions.....817 | Steel tubing, seamless.....1158 |
| Steel barrows.....49 | Steel frame trestles.....1151 | Steel rolling shutters.....1044 | Steel tubing, square seam- less.....1158 |
| Steel barrows, tubular.....49 | Steel furnaces, high speed.....455 | Steel rolls.....955 | Steel tubular barrows.....49 |
| Steel bars, finished.....1071 | Steel, galvanized (iron & steel sheet).....560 | Steel roofing & siding.....998 | Steel tubular wheels.....1196 |
| Steel bars for reinforced con- crete.....1071 | Steel, galvanized enameled, bath tubs.....51 | Steel rope, haulage & trans- mission.....999 | Steel umbrella parts.....1161 |
| Steel beams (see steel struc- tural shapes).....1071 | Steel, gas holder.....1072 | Steel rosettes & pickets.....999 | Steel umbrella rod.....1079 |
| Steel bedstead angles.....1071 | Steel gear wagons.....1182 | Steel rules.....1000 | Steel vehicle wheels.....1195 |
| Steel bedstead tubing.....1157 | Steel girder bridges.....109 | Steel rules, metric.....1001 | Steel vehicles, odorless.....795 |
| Steel billets.....63 | Steel hames.....498 | Steel sash bars.....1003 | Steel wagons.....1182 |
| Steel bins.....64 | Steel hammer rods & rams.....949 | Steel scrap (iron & steel).....1022 | Steel wedges.....1189 |
| Steel boats.....70 | Steel hand rails.....500 | Steel scrapers, drag & wheel (see road scrapers, drag & wheel).....1074 | Steel white lead kegs.....1197 |
| Steel, boiler plate.....830 | Steel hardening.....1072 | Steel screw stock.....1074 | Steel wire.....1207 |
| Steel bolts (see bolts, vari- ous kinds).....193 | Steel haulage & transmis- sion rope.....999 | Steel sectional boilers.....72 | Steel wire, band & hack saw.....1207 |
| Steel bottle cases.....84 | Steel head dresser spools.....1131 | Steel, self-hardening.....1074 | Steel wire belting mfrs.....62 |
| Steel bottles.....84 | Steel head frames.....453 | Steel shafting.....1034 | Steel wire brushes.....112 |
| Steel bound concrete curb.....244 | Steel head jack spools.....1131 | Steel shafting, cold drawn.....1034 | Steel wire chains, weldless.....220 |
| Steel brick & rock face sid- ing.....1071 | Steel heddles.....1124 | Steel shafting, hollow seam- less.....1034 | Steel wire, cold drawn.....1203 |
| Steel bridge builders.....109 | Steel, high speed.....1073 | Steel shavings.....1079 | Steel wire mats & matting.....766 |
| Steel bridge plate.....830 | Steel highway tracks.....1149 | Steel sheet.....560 | Steel wire sash cord mfrs.....1003 |
| Steel bridge rails.....109 | Steel hooks & eyes (brass & steel).....537 | Steel sheet bars.....1074 | Steel wire stripper cards.....1119 |
| Steel brush wire.....1207 | Steel, hot rolled strip.....1073 | Steel sheet bath tubs.....52 | Steel wool & shavings.....1079 |
| Steel bushed chains.....220 | Steel, ice & milk can.....1073 | Steel sheet electrical.....560 | Steel working machinery (see metal machinery, va- rious kinds).....66 |
| Steel butt hinges, ball bear- ing.....528 | Steel importers.....1073 | Steel sheet, galvanized.....560 | Steel works construction (blast furnace & steel works).....66 |
| Steel car coating paints.....814 | Steel ingots.....544 | Steel sheets, aluminum coated.....1074 | Steel wrenches.....1214 |
| Steel car platforms.....832 | Steel inspection.....1073 | Steel sheets, blue annealed.....1074 | Steel & brass mails.....1126 |
| Steel cars.....191 | Steel, iron & heavy hard- ware dealers.....558 | Steel sheets, bow socket.....1074 | Steel & iron discs.....313 |
| Steel cars, mining or dump.....191 | Steel, jail & cell work.....563 | Steel sheets, buggy bow.....1074 | Steel & iron washers.....1184 |
| Steel castings.....204 | Steel knuckles.....570 | Steel sheets, cylinder & tank.....1074 | Steel & wood hames.....498 |
| Steel castings, Atlas.....195 | Steel ladders.....571 | Steel sheets for expanded metal & fireproofing.....1074 | Steeloid.....792 |
| Steel castings, chrome.....200 | Steel lath.....576 | Steel sheets for gas stoves.....1074 | Steels, butchers'.....1079 |
| Steel castings, manganese.....203 | Steel lead keg closing ma- chines.....629 | Steel sheets for metallic fur- niture.....1074 | Steering gears.....472 |
| Steel castings, nickel.....203 | Steel lock bar pipe.....822 | Steel sheets for painting, locomotive jacket.....589 | Steering lever grips.....497 |
| Steel castings, Tropenas.....206 | Steel, locomotive boiler.....1073 | Steel sheets for shovels, saws, etc.....1074 | Steering wheels.....1195 |
| Steel ceilings, corrugated.....207 | Steel log stamps.....1065 | Steel sheets for show cards.....1074 | Steering wheels, automobile.....1192 |
| Steel ceilings, ornamental.....207 | Steel mails.....1126 | | Steering wheels, marine.....1194 |
| Steel ceilings, sheet.....207 | Steel, manganese.....1073 | | Stems, chaplet.....1079 |
| Steel cellar doors.....1071 | Steel mats & matting.....766 | | Stencil brushes.....112 |
| Steel cement bins.....211 | | | Stencil cutting dies.....312 |
| Steel cements (iron & steel).....214 | | | Stencil cutting machines.....667 |
| | | | Stencils.....1079 |
| | | | Step hangers.....504 |
| | | | Step irons (see pole steps)..... |

| | Page | | Page | | Page | | Page |
|---|------|---------------------------------------|--------|---|------------|---|------|
| Step ladder joints (see ladder joints). | | Stone, Istrian, Hauteville & Touraine | 1082 | Storm proof doors | 320 | Strap & T hinge mfrs. | 531 |
| Step ladder trucks | 1155 | Stone jacks | 563 | Storm sash | 1004 | Strapping lathes | 579 |
| Steps, automobile | 1079 | Stone lathes | 579 | Storm sash hangers | 1003 | Strapping, loom | 1125 |
| Steps, car | 182 | Stone paving blocks | 818 | Storm window fasteners | 430 | Strapping machines | 1131 |
| Steps, carriage (see automobile steps). | | Stone picks | 820 | Storm windows | 1200 | Strapping machines, belt | 620 |
| Steps, pole | 900 | Stone planers | 825 | Stove boards | 1092 | Strapping machines, box | 623 |
| Steps, sewer | 1079 | Stone planers' tooling tools | 1142 | Stove bolt taps | 1113 | Straps, anchor | 1096 |
| Steps, sewer manhole | 1033 | Stone polishing lathes | 579 | Stove bolt & rod nuts | 795 | Straps, beam | 1096 |
| Stereoscopic machines | 667 | Stone preservatives | 109 | Stove bolts | 82 | Straps, box | 84 |
| Stereotype knives | 570 | Stone producers, workers & dealers | 1082 | Stove cements | 216 | Straps, car (see straps, hand hold). | |
| Sterilizing apparatus | 1079 | Stone, pumice | 913 | Stove cements (furnace & stove) | 214 | Straps, crate | 1096 |
| Sticking machines, cork | 633 | Stone renovators | 1091 | Stove door pins | 822 | Straps, deckle | 1096 |
| Sticking machines, pin | 653 | Stone rubbing beds | 1000 | Stove drills | 327 | Straps, hand hold | 1096 |
| Sticks, cutter | 1079 | Stone saw blades, steel | 1091 | Stove lid lifters | 583 | Straps, harness | 1123 |
| Sticks, dye | 1122 | Stone sawing feeders | 431 | Stove lining brick | 109 | Straps, lug | 1126 |
| Sticks, packing | 805 | Stone sawing machinery | 667 | Stove linings | 1093 | Straps, pipe | 1096 |
| Sticks, picker | 1127 | Stone sawing machines, circular | 629 | Stove linings, asbestos | 1093 | Straps, pole | 1096 |
| Sticks, sweep | 1131 | Stone saws, circular | 1018 | Stove makers' putty | 926 | Straps, skate, trunk, blanket, etc. | 1096 |
| Sticks, yard | 1215 | Stone screenings | 1091 | Stove mats | 766 & 1094 | Straps, timber | 1096 |
| Sticks & holders, mop | 783 | Stone separators | 1032 | Stove mfrs. | 1093 | Straw board lining machines | 668 |
| Stiff leg derricks | 309 | Stone setters' cement | 216 | Stove mfrs. of Canada | 1094 | Straw board mfrs. | 1096 |
| Stiles punching machines | 657 | Stone sidewalks, granolithic | 490 | Stove nuts | 795 | Straw cutter knives | 570 |
| Stiles punching presses | 908 | Stone sifting machines | 667 | Stove pipe dies | 312 | Straw preserving & rye threshers | 1134 |
| Stiles screw machines | 662 | Stone skips | 1048 | Stove pipe enamels | 376 | Straw stackers | 1063 |
| Stills, copper | 1079 | Stone surfacing machines, pneumatic | 899 | Stove pipe radiators | 928 | Street brooms | 111 |
| Stills, oil, tar, etc. | 1079 | Stone testing machines | 669 | Stove pipe registers | 940 | Street car mats | 766 |
| Stills, pharmaceutical | 1079 | Stone wagons | 1182 | Stove pipe & elbow mfrs. | 1094 | Street car wheels | 1195 |
| Stills, water | 1079 | Stone workers & dealers | 1082 | Stove pokers | 900 | Street cars | 192 |
| Stirrups or hangers | 1079 | Stone workers' axes | 42 | Stove polish | 1094 | Street flushing machines | 668 |
| Stirrups & levers, cotton machinery | 1131 | Stone working machinery | 667 | Stove rivets | 946 | Street lamps | 574 |
| Stitching machinery, belt | 620 | Stone & coal dryers | 330 | Stove rods | 949 | Street lighting | 1096 |
| Stitching machinery, book | 622 | Stoners, cherry & peach | 1091 | Stove scrapers | 1024 | Street lighting, sun vapor | 1096 |
| Stitching machines, card Jacquard | 1119 | Stones, alundum | 1091 | Stove trimmings | 1094 | Street plows | 1096 |
| Stitching machines, pamphlet | 650 | Stones, emery | 1091 | Stove trucks | 1156 | Street railway contractors | 271 |
| Stitching machines, wire | 673 | Stones, glass cutters' | 1091 | Stoves, acetylene | 1094 | Street railway de-rails | 308 |
| Stock cleaners, four cylinder | 1131 | Stones, huller & pulp | 1091 | Stoves, alcohol vapor | 1094 | Street railway generators | 474 |
| Stock fountains | 452 | Stones, oil | 796 | Stoves, brass foundries, drying | 1094 | Street railway paving blocks | 818 |
| Stock marks | 1079 | Stones, oil & water | 1092 | Stoves, caboose | 1094 | Street railway sprinkling cars | 191 |
| Stock oilers, "Spencer" | 1131 | Stones, oil & water | 1092 | Stoves, camp cooking | 179 | Street railway sweeping machines | 668 |
| Stock pickers & cleaners | 1128 | Stones, scythe | 1092 | Stoves, car | 1094 | Street railway tickets & transfers | 1134 |
| Stock scales | 1021 | Stones, sharpening | 1092 | Stoves, confectioners' | 1095 | Street railway track cleaners | 1149 |
| Stock sizing machines | 667 | Stones, tool | 1092 | Stoves, gas heating & cooking | 461 | Street signs | 1046 |
| Stock straightening & cutting machinery, automatic hot rolled | 643 | Stoneware boxes | 86 | Stoves, gasoline | 1095 | Street sprinkler wagon | 1096 |
| Stocking cutters | 303 | Stoneware, chemical | 1092 | Stoves, heaters & ranges, gas | 1095 | Street sprinkling carts & wagons | 1096 |
| Stocks, pipe (see stocks & dies). | | Stools, adjustable | 1092 | Stoves, hot blast | 1095 | Street sweepers, hand | 1096 |
| Stocks, whip | 1196 | Stools, camp (stools & chairs) | 179 | Stoves, hot blast, three pass | 1095 | Street sweeping bag carriers | 1096 |
| Stocks & dies | 1080 | Stools, store | 1092 | Stoves, laundry | 1095 | Street sweeping brooms | 111 |
| Stoker equipment regulators | 942 | Stop cutter knives | 570 | Stoves, masons' | 1095 | Street sweeping carriers (can & bag) | 184 |
| Stokers, locomotive | 589 | Stop motions, bobbin | 1126 | Stoves, plasterers' | 1095 | Street sweeping hand carts | 193 |
| Stokers, mechanical | 767 | Stop motions, drawing frame | 1126 | Stoves & heaters, oil | 1095 | Street sweeping machines | 668 |
| Stone, artificial building | 1080 | Stop motions, knitting machine | 1126 | Straddler for embedding tie plates | 1095 | Street washer keys | 566 |
| Stone barrows | 49 | Stop motions, loom | 1126 | Straight edges | 1095 | Street & hydrant washers | 1185 |
| Stone breakers (see rock & ore crushers). | | Stop motions, spooler | 1126 | Straight shank drills | 327 | Stretchers, card | 1119 |
| Stone bridge builders | 109 | Stop motions, twister | 1126 | Straight sided presses | 908 | Stretchers, carpet | 1096 |
| Stone, broken | 109 | Stop motions, warp | 1126 | Straight tail dogs | 315 | Stretchers, cloth | 1120 |
| Stone burial vaults & grave covers | 176 | Stop valves | 1171 | Straighteners & cutters, sheet metal & strip stock, automatic | 1039 | Stretchers, saw | 1096 |
| Stone cars | 192 | Stop & waste cocks | 236 | Straighteners & punch combined | 923 | Stretchers, wire | 1096 |
| Stone carvers | 193 | Stoppers, bath & basin | 1092 | Straightening, bending & punching machines | 621 | Stretches & re-toothers, saw | 1017 |
| Stone carving tools, pneumatic | 899 | Stoppers, flue | 1092 | Straightening drills | 327 | Stretching fids (hand & stretching) | 433 |
| Stone chains | 220 | Stoppers, flue, peerless | 1092 | Straightening machinery, plate | 654 | Stretching machines, belt | 620 |
| Stone channeling machines | 667 | Stoppers, gas main | 1092 | Straightening machinery, wire roll & rotary | 673 | Strikers, angelus, quarter & half hour strikers | 230 |
| Stone channeling machines, electric air | 667 | Stoppers, plumbago | 1092 | Straightening machines, angle | 619 | Striking bag, rubber | 44 |
| Stone crabs, hook & chain | 1080 | Stoppers & nozzles, ladle | 1092 | Straightening presses | 908 | Striking hammers (drilling & striking) | 498 |
| Stone, crushed | 1080 | Stops, bench | 62 | Straightening rolls (bending & straightening) | 954 | Striking machines | 668 |
| Stone crusher castings (see castings, rock crusher). | | Stops, crane limit | 1092 | Straightening & cutting machines, strip metal | 668 | Stringers, 'ham | 1097 |
| Stone crusher parts & repairs | 1082 | Stops, door | 318 | Straightening & cutting machines, wire | 673 | Stringing machines, tag | 668 |
| Stone crushers (see rock & ore crushers). | | Stops, elevator safety | 368 | Straightway valves (see valves, gate). | | Strip cutting machines, rubber | 660 |
| Stone crushing plants, complete | 1082 | Stops, engine, speed limit | 376 | Strain insulators | 546 | Strip metal & cutting machines | 668 |
| Stone curbing | 1082 | Storage batteries | 52 | Strainers, conductor | 1096 | Strip steel, cold rolled | 1072 |
| Stone cutters' chisels | 224 | Storage bin gates | 467 | Strainers, galvanized flanged | 1096 | Strip steel, hot rolled | 1073 |
| Stone cutters' hammers | 500 | Storage system air brakes | 7 & 89 | Strainers, gasoline | 1096 | Strip stock straighteners & cutters, automatic | 1039 |
| Stone cutters' pneumatic tools | 899 | Storage tanks | 1109 | Strainers, gutter | 1096 | Stripping attachments, hosiery | 1124 |
| Stone cutters' points | 1082 | Storage tanks, cast iron | 1105 | Strainers, hose | 1096 | Strippers' cards, steel wire | 1119 |
| Stone cutters' tools | 1144 | Storage tanks, cold | 1105 | Strainers, injector | 1096 | Strippers, ingot | 1097 |
| Stone cutters' tools (granite & stone cutters) | 1144 | Storage tanks, sand | 1109 | Strainers, pipe | 1096 | Strippers, ingot, electric & hydraulic | 544 |
| Stone cutters' tools, pneumatic | 899 | Storage tanks, steel, hot water | 1109 | Strainers, sink | 1096 | Stripping machines | 1131 |
| Stone-cutting machines | 667 | Store door lock mfrs. | 588 | Strainers, suction | 1096 | Strips, weather | 1189 |
| Stone dealers & workers | 1082 | Store fixtures (bank, office & store) | 443 | Strainers & separators, gasoline | 1096 | Stroke reducers | 988 |
| Stone dogs | 315 | Store front construction | 1092 | Stranding machines | 668 | Structural bolts (bridge & structural) | 79 |
| Stone gadder or drilling machines | 667 | Store fronts, brass & bronze | 1092 | Stranding machines, wire | 673 | Structural rivets | 945 |
| Stone gang sawing machines | 667 | Store fronts, bronze | 1092 | Strap bolts | 82 | Structural sanitary glass | 481 |
| Stone gang saws | 1018 | Store fronts, cast iron | 1092 | | | | |
| Stone handling tongs | 1142 | Store fronts, galvanized iron | 1092 | | | | |
| Stone headers | 517 | Store fronts & show windows, glass | 1092 | | | | |
| Stone hoisting grapples | 490 | Store sliding ladders | 571 | | | | |
| | | Store stools | 1092 | | | | |
| | | Store, warehouse & factory trucks | 1155 | | | | |
| | | Store & bar fixtures | 1092 | | | | |

| | Page | | Page | | Page | | Page |
|---|------|---|------|---|------|--|------------|
| Structural shapes, steel | 1075 | Sundries, canning house | 180 | Switches, automatic | 1101 | Tablets, bronze, etc. | 110 |
| Structural slate (see slate stair treads & risers). | | Sundries & parts, bicycle | 63 | Switches, automatic door | 1101 | Tabulating machines | 668 |
| Structural steel buggies | 114 | Superheaters, steam | 1099 | Switches, automatic rail-road | 1101 | Tachographs | 1103 |
| Structural steel clips | 230 | Supplies (supplies are indexed under the headings descriptive of their kind). | | Switches, automobile | 1101 | Tachometers | 1103 |
| Structural steel dealers | 1075 | Supports, counter | 239 | Switches, canopy | 1101 | Tachoscopes | 1103 |
| Structural steel shaft hangers | 504 | Supports, cross arm | 1099 | Switches, coil | 1101 | Tack claws | 228 & 1103 |
| Structural steel work | 1075 | Supports, insulator | 546 | Switches, crossings & frogs | 453 | Tack hammers | 500 |
| Structural tubing | 1158 | Supports, porch | 901 | Switches, derailing | 1101 | Tack machine knives | 570 |
| Structural & architectural consulting engineers | 379 | Suppository machines | 668 | Switches, electric (see switches, various kinds). | | Tack machinery | 668 |
| Stubble diggers | 313 | Surface condensers (see condensers, steam). | | Switches, elevator, belt & reversing | 369 | Tack mfrs. | 1103 |
| Stucco machinery | 668 | Surface gauges | 470 | Switches, fused service | 1101 | Tack mfrs., double pointed | 1104 |
| Stucco mfrs. | 1097 | Surface grinders | 495 | Switches, frogs & crossings | 453 | Tack mfrs., lead | 1104 |
| Stucco retarder | 1097 | Surface grinding & polishing machines | 668 | Switches, high voltage | 1101 | Tack mfrs., upholsterers | 1104 |
| Stucco work | 1097 | Surface heating, concentrators | 244 | Switches, industrial railway | 1102 | Tack molds | 783 |
| Stud bolts | 82 | Surface picks | 820 | Switches, interlocking | 1102 | Tack molds, plumbers | 1104 |
| Stud link chains | 220 | Surface plates | 831 | Switches, knife | 1102 | Tack plate, steel | 1078 |
| Stud screws | 1029 | Surfacer, metal | 769 | Switches, limit | 1102 | Tack pullers | 910 |
| Stud & bolt lathes | 577 | Surfacer, pneumatic baby | 895 | Switches, magnetic | 1102 | Tack separating machines | 668 |
| Stud & straight hanger insulator | 546 | Surfacer, pneumatic junior | 897 | Switches, oil break | 1102 | Tack wire | 1207 |
| Studs, belt | 58 | Surfacing machines, floor | 639 | Switches, reversing motor | 1102 | Tack & nail hammers | 500 |
| Studs, lacing | 1097 | Surfacing machines, wood | 675 | Switches, snap ordinary | 1102 | Tacks, thumb | 1104 |
| Studs, metal | 1097 | Surfacing material, black board | 65 | Switches, snap & push | 1102 | Tacks & hatches, stake | 1064 |
| Studs, milled iron | 1097 | Surgeons' bandage cutting machines | 620 | Switches, solenoid | 1102 | Tackle block sheaves | 1039 |
| Stuff chests | 1097 | Surgical furniture (dental & surgical) | 459 | Switches, split | 1102 | Tackle blocks | 68 |
| Stuff pumps (fan & stuff) | 917 | Surgical rubber goods | 999 | Switches, switch stands & fixtures | 1102 | Tackle blocks, anchor | 66 |
| Stuffers, sausage | 1097 | Surveying & engineering instruments | 378 | Switches, time | 1103 | Tackle pulleys (awnings or tackle) | 911 |
| Stuffing apparatus, leather | 582 | Surveyors (see engineers, civil). | | Switches, trolley | 1103 | Tag hooks | 537 |
| Stuffing machines, meat cans | 646 | Surveyors' field & office supplies | 1100 | Switches & turntables, mine | 1103 | Tag machinery | 668 |
| Stump pullers | 910 | Suspended or cane weighing machines | 668 | Swivel couplings | 291 | Tag stringing machines | 668 |
| Styra Cipoline marble | 752 | Suspended scales (crane or suspended) | 1020 | Swivel door hangers | 317 | Tag wire | 1207 |
| Sublimed white lead | 1197 | Suspended scales, for boiler rooms | 1021 | Swivel plows, reversible & hillside | 835 | Tags, shipping | 1104 |
| Submarine armor | 1097 | Suspender looms | 1126 | Swivel snaps | 1054 | Tags, tin | 1104 |
| Submarine cables | 178 | Suspension bridge cables | 178 | Swivels | 1103 | Tags, zinc | 1104 |
| Submarine divers | 314 | Suspension chains, arc lamp | 217 | Swivels, punching bag | 1103 | Tailors' pressing machines | 668 |
| Submarine drills | 327 | Suspension drills | 327 | Swivels, snap | 1103 | Take-up boxes | 86 |
| Sub-soil plows | 835 | Swage block stands | 1100 | Syenite granite | 485 | Take-ups | 1104 |
| Subway boxes, fused | 85 | Swage blocks | 1100 | Synchronized systems clocks | 231 | Talc fire brick mfrs. | 107 |
| Subway contractors, electric | 252 | Swages, saw | 1017 | Syphon ejectors | 336 | Talc mfrs. & miners | 1104 |
| Sucker rod, couplings | 291 | Swages, tie plate | 1100 | Syphon gauges | 470 | Talc, powdered | 1104 |
| Sucker rod joints | 564 | Swages, top, bottom, etc. | 1100 | Syphon pumps | 922 | Talc & soapstone pencils | 818 |
| Sucker rods | 949 | Swaging machines | 668 | Syphon valves | 1172 | Talking machine needles | 1104 |
| Suction hose | 540 | Swaging machines, cold | 631 | Syphons, acid | 1103 | Talking machines | 668 |
| Suction plates | 831 | Swedish iron & steel | 561 | Syphons, or jet pumps ejectors | 336 | Talking scales | 1021 |
| Suction strainers | 1096 | Sweep rakes | 936 | Syphons, steam gauge | 1103 | Talking signs | 1046 |
| Suction screens | 1025 | Sweep sticks | 1131 | Syrens, steam (see steam syrens). | | Tallow | 1104 |
| Sugar apparatus, cube | 1098 | Sweepers, carpet | 1100 | Syringes, hypodermic | 1103 | Tallow pots | 902 |
| Sugar barrel packers | 1097 | Sweepers, lawn | 581 | Syringes, oil | 796 | Tallow presses (lard & tallow) | 906 |
| Sugar beet machinery | 620 | Sweepers, sanitary vacuum | 1002 | Syrup filling machines, canners' | 668 | Tampers, concrete | 1104 |
| Sugar cane car unloaders | 1162 | Sweeping, cleaning & renovating plants, portable & stationary | 1100 | Syrup testers | 1117 | Tampers, dirt & sod | 1104 |
| Sugar cane carrier feeders | 431 | Sweeping machines, street | 668 | Syrup & maple sugar makers' supplies | 750 | Tamping bars (lining & tamping) | 50 |
| Sugar cane cars (see cars, plantation). | | Sweeping machines (street railway) | 668 | System, storage, air brake. | 7 | Tamping picks | 820 |
| Sugar cane crushers (see mills, sugar cane). | | Sweeping machines, vacuum system | 668 | Systems, drainage | 321 | Tan bark packing machines | 668 |
| Sugar cane handling derricks | 309 | Swing chains, porch | 219 | Systems, lighting | 583 | Tank acid metal gauges | 470 |
| Sugar cane mills | 1098 | Swing frame grinders | 495 | | | Tank cars | 192 |
| Sugar cane unloading apparatus (see conveyors, belt). | | Swing joints | 564 | | | Tank fixtures | 1104 |
| Sugar centrifugals & mixers | 1097 | Swing saws | 1019 | | | Tank heaters | 523 |
| Sugar coating pans | 815 | Swinging gears | 472 | | | Tank indicators | 543 |
| Sugar filtering presses (see sugar machinery). | | Swingers, derrick | 309 | | | Tank lugs | 596 |
| Sugar granulators | 1098 | Swinging hose rack (see hose, reels & racks). | | | | Tank plate (see iron & steel) boilers & tank plate). | |
| Sugar house castings | 206 | Swings, barrel | 1100 | | | Tank pulls (see water closet pulls). | |
| Sugar house pumps | 921 | Swings, circle | 1100 | | | Tank pumps | 922 |
| Sugar kettles | 565 | Swings, lawn | 1100 | | | Tank regulators, hot water | 942 |
| Sugar machinery | 1097 | Switchboard cords (telephone & switchboard) | 279 | | | Tank rivets | 945 |
| Sugar machinery, beet | 620 | Switchboard details | 1100 | | | Tank saddles (see boiler saddles). | |
| Sugar refineries | 1099 | Switchboard expansion bolts | 81 | | | Tank scales | 1021 |
| Sugar refining lime kilns | 1098 | Switchboard mats | 766 | | | Tank valves | 1172 |
| Sugar wagons | 1182 | Switchboard & telephone cords | 279 | | | Tank & boiler rivets | 945 |
| Suit case frames | 453 | Switchboards, light & power | 1100 | | | Tank & cylinder shells | 304 |
| Suit case lock mfrs. (trunk & suit case) | 588 | Switchboards, telephone | 1101 | | | Tank & muffler parts, automobile | 42 |
| Sulky hay rakes | 936 | Switch boxes | 86 | | | Tanks, acid | 1104 |
| Sulky plows, reversible | 835 | Switch boxes, fused service | 86 | | | Tanks, air | 1104 |
| Sulky plows, riding or wheel | 835 | Switch handles, electric | 501 | | | Tanks, air brake | 1104 |
| Sulphate digester linings | 1099 | Switch handles, wood | 1101 | | | Tanks, air compressor | 1104 |
| Sulphate of ammonia | 1099 | Switch lamps | 575 | | | Tanks, asphalt heating (see heaters, asphalt). | |
| Sulphate of copper | 278 | Switch lock mfrs. (car & switch) | 587 | | | Tanks, automobile, fuel storage | 1104 |
| Sulphate of iron | 1099 | Switch locks, railway | 1101 | | | Tanks, beet sugar syrup | 1105 |
| Sulphate of lime | 1099 | Switch planers (frog & switch) | 825 | | | Tanks, blow-off | 1105 |
| Sulphate of soda | 1099 | Switch signals | 1045 | | | Tanks, brazing | 1105 |
| Sulphate of sodium | 1099 | Switch stands | 1102 | | | Tanks, calcium light | 1105 |
| Sulphate of zinc | 1215 | Switch & car locks | 587 | | | Tanks, car lighting | 1105 |
| Sulphide of sodium | 1055 | | | | | Tanks, car wheel annealing | 1105 |
| Sulphur furnaces | 458 | | | | | Tanks, car & boat | 1105 |
| Sulphur machines | 1098 | | | | | Tanks, cast iron storage | 1105 |
| Sulphur, refined | 1099 | | | | | Tanks, cement | 1110 |
| Sulphuric acid | 2 | | | | | Tanks, cold storage | 1105 |
| Summer houses, iron | 558 | | | | | Tanks, compressed air | 1105 |
| Summer houses or arbors | 1099 | | | | | Tanks, concrete steel | 1105 |
| Sun dial pedestals | 818 | | | | | Tanks, condenser | 1105 |
| Sun dials | 1099 | | | | | Tanks, copper | 1105 |
| Sun dials, metal | 1099 | | | | | Tanks, creosoting | 1105 |
| Sun & heliographic printing | 1099 | | | | | Tanks, cyanide | 1105 |
| | | | | | | Tanks, cylindrical | 1106 |

| | Page | | Page | | Page | | Page |
|--|------|---|------|--|------|--|------|
| Tanks, dipping | 1106 | Taper mandrels | 745 | Teasels | 1131 | Templates for drilling flanges | 1115 |
| Tanks, elevator | 1106 | Taper pins | 822 | Technical institutions (see engineering schools & col- leges). | | Temple rolls | 1129 |
| Tanks, enameled iron closet. | 1106 | Taper reamers | 938 | Tedder forks | 449 | Temples, loom | 1125 |
| Tanks, expansion | 1106 | Taper rolling machines.... | 668 | Tedder rods (see rods, rake). | | Ten pin turning lathes.... | 579 |
| Tanks, filter | 1106 | Taper sockets, "Morse" | 1055 | Tedder & rake teeth..... | 935 | Ten pins | 1115 |
| Tanks, fire extinguisher.... | 1106 | Taper threading machines.. | 668 | Tedders, hay | 1113 | Tenoning machines, wood... | 675 |
| Tanks, flush | 446 | Taper tube spinning ma- chines | 668 | Tees, angles, channels, etc., iron & steel..... | 558 | Tenons, blind | 66 |
| Tanks, fuel oil | 1106 | Tapered seamless tubing.... | 1158 | Tees, chain (hooks & tees).. | 537 | Tension carriages | 184 |
| Tanks, galvanized steel.... | 1106 | Tapering machines, core.... | 633 | Tees, pipe | 1113 | Tension scales, band..... | 1129 |
| Tanks, gas engine..... | 1106 | Tapering rolls (forging and tapering) | 955 | Tees & hooks chain..... | 537 | Tent hook & eyes..... | 537 |
| Tanks, gasoline | 1106 | Tapers, wax | 1189 | Tees & sleeves for under- ground construction | 1053 | Tenter clips | 1131 |
| Tanks, glass | 1107 | Tapes, braids & cords..... | 1131 | Teeth, cultivator | 1113 | Terminating machines..... | 1131 |
| Tanks, grain elevator..... | 1107 | Tapes, measuring | 1111 | Teeth for crusher rolls.... | 1113 | Tents, camping, lumber- man's, etc..... | 1115 |
| Tanks, grain storage | 1107 | Tapes, pocket | 1111 | Teeth, harrow | 515 | Tents for railroad contract- ors | 1115 |
| Tanks, high pressure..... | 1107 | Tapes & webbing for dyna- mos, etc. | 1111 | Teeth, hay loader..... | 1114 | Terazzo flooring | 1115 |
| Tanks, hydrogen & oxygen.... | 1107 | Tapestries, decorative art.... | 308 | Teeth, hay rake..... | 1114 | Terazzo, wholesale | 1115 |
| Tanks, ice | 542 | Tape machines, armature coil | 619 | Teeth, rake & tedder..... | 935 | Terminals, fuse | 1115 |
| Tanks, indurated fibre.... | 1107 | Tapped nuts | 795 | Teeth, saw | 1017 | Terminals, service | 1115 |
| Tanks, iron & steel..... | 1107 | Tapper taps | 1113 | Teeth, picker | 1127 | Terminals, telephone cable.. | 1115 |
| Tanks, jacketed | 1108 | Tappers, nut | 1111 | Teeth, thresher | 1134 | Terminals, wire | 1115 |
| Tanks, lead | 1108 | Tapping attachments, drill press | 1111 | Teeth, two-part | 1114 | Terne plates | 1115 |
| Tanks, lighting system.... | 1108 | Tapping bits | 65 | Teeth, weeder | 1114 | Terra alba | 1115 |
| Tanks, metal | 1108 | Tapping chucks | 225 | Telegraph apparatus | 1114 | Terra cotta, architectural.. | 1116 |
| Tanks, mixing | 1108 | Tapping machines | 668 | Telegraph augers | 38 | Terra cotta, architectural, enameled | 1116 |
| Tanks, molasses | 1108 | Tapping machines, can..... | 625 | Telegraph instruments | 545 | Terra cotta crestings (see roofing tile). | |
| Tanks, motor boat..... | 1108 | Tapping machines, coupling.. | 633 | Telegraph poles | 1114 | Terra cotta fire-proofing, porous | 441 |
| Tanks, muffle | 1108 | Tapping machines, dry pipe | 669 | Telegraph pole forgings.... | 449 | Terra cotta, glazed..... | 1116 |
| Tanks, oil | 1108 | Tapping machines, gas & water mains | 669 | Telegraph shovels | 1044 | Terra cotta graduated roof- ing tile | 998 |
| Tanks, oxygen | 1107 | Tapping machines, horizon- tal | 669 | Telegraph spoons | 1058 | Terra cotta hip rolls..... | 1116 |
| Tanks, pneumatic water.... | 1108 | Tapping machines, nut..... | 649 | Telegraph system (wireless).. | 1114 | Terra cotta lumber (see fire- proofing, porous terra cotta). | |
| Tanks, pressed steel..... | 1108 | Tapping machines, pipe- socket | 669 | Telegraph wire, steel..... | 1207 | Terra cotta roofing tile.... | 998 |
| Tanks, pressure | 1108 | Tapping & boring machines, automatic | 622 | Telegraph & telephone pole forgings | 449 | Terra cotta roofing tile, glazed | 998 |
| Tanks, railroad water..... | 1109 | Tapping & drilling machines | 636 | Telephone bells | 57 | Terra cotta roofing tile, graduated | 998 |
| Tanks, refrigerator, porce- lain lined | 1109 | Tapping & reaming ma- chines, portable | 669 | Telephone booths (see tele- phone cabinet work). | | Terra cotta roofing tile, Spanish shapes | 998 |
| Tanks, rendering | 1109 | Taps, adjustable | 1111 | Telephone brackets | 88 | Terra cotta rustic work.... | 1001 |
| Tanks, sand storage | 1109 | Taps, Beaman & Smith holder | 1111 | Telephone cabinet work.... | 1114 | Terra cotta shingles, flat.. | 1040 |
| Tanks, seamless (cylinders & tanks) | 304 | Taps, bit brace..... | 1111 | Telephone cable terminal.... | 1115 | Terra vitrae tile | 1137 |
| Tanks, seamless steel..... | 1109 | Taps, blacksmiths' | 1111 | Telephone condenser, electric | 247 | Test gauges | 470 |
| Tanks, seamless steel fire extinguisher | 1109 | Taps, boiler | 1112 | Telephone construction tools. | 1146 | Test hole drilling machines. | 669 |
| Tanks, slate | 1052 | Taps, champagne | 1112 | Telephone core machines.... | 669 | Test indicators | 543 |
| Tanks, slurry | 1109 | Taps, collapsible | 1112 | Telephone cushions, pneu- matic | 1114 | Test machines, smoke..... | 665 |
| Tanks, soap | 1109 | Taps, combined drill & reamer | 1112 | Telephone hanger hooks.... | 537 | Test ² pocket gauges..... | 470 |
| Tanks, soda fountain..... | 1109 | Taps, die | 1112 | Telephone holders (see brack- ets, desk telephone). | | Test pumps | 922 |
| Tanks, sprinkler | 1109 | Taps, gas fixture | 1112 | Telephone locks | 1114 | Testers, center | 1116 |
| Tanks, steel, glass enameled. | 1109 | Taps, hand | 1112 | Telephone magnet cores.... | 1114 | Testers, creamery | 1116 |
| Tanks, steel, glass lined.... | 1109 | Taps, hob | 1112 | Telephone magnetos | 744 | Testers, mine gas..... | 1117 |
| Tanks, steel, hot water stor- age | 1109 | Taps, horseshoe | 1112 | Telephone mouthpieces | 1114 | Testers, paper | 1117 |
| Tanks, storage, etc..... | 1109 | Taps, lead diaphragm.... | 1112 | Telephone name plates..... | 792 | Testers, rail bond (see in- struments, electrical test- ing & measuring). | |
| Tanks, street sprinkler wagon | 1096 | Taps, machine or nut..... | 1112 | Telephone parts | 1114 | Testers, syrup | 1117 |
| Tanks, tar, ammonia, liquor. | 1109 | Taps, machine screw | 1112 | Telephone pay station lock mfrs. | 588 | Testing apparatus (boiler washing & testing)..... | 72 |
| Tanks, tempering | 1109 | Taps, machinists' hand.... | 1112 | Telephone pins | 1114 | Testing apparatus, gauge.... | 467 |
| Tanks, water, mounted on wheels | 1109 | Taps, mud wash-out..... | 1112 | Telephone pole changer.... | 1114 | Testing apparatus, venti- lator | 1117 |
| Tanks, windmill | 1109 | Taps, patch bolt..... | 1112 | Telephone pole forgings.... | 449 | Testing instruments & meters, electrical | 1117 |
| Tanks, wood | 1109 | Taps, pulley | 1113 | Telephone poles | 1114 | Testing laboratories | 1117 |
| Tanks & cylinders, cement.... | 1110 | Taps, relay bolt..... | 1113 | Telephone protectors | 1114 | Testing machines (see vari- ous kinds of testing ma- chines indexed under the head of "Machinery"). | |
| Tanks & cylinders, creosot- ing | 1110 | Taps, stove bolt..... | 1113 | Telephone receivers & shells. | 1114 | Testing magnetos | 744 |
| Tanks & mufflers, automo- bile | 42 | Taps, taper | 1113 | Telephone relay shells.... | 1114 | Testing plugs, soil pipe.... | 836 |
| Tanks & scrubbers..... | 1029 | Taps, tap | 1113 | Telephone ringing apparatus. | 1114 | Testing scales, grain..... | 1020 |
| Tanks & seats (see plumbers' woodwork). | | Taps, taper | 1113 | Telephone switchboards | 1101 | Testing, valve & plug..... | 1163 |
| Tanks & towers, iron (see towers, steel). | | Taps, tap | 1113 | Telephone transmitters | 1114 | Textile machinery & sup- plies | 1117 |
| Tanks & towers, water.... | 1110 | Taps & drills combined, pipe | 1113 | Telephone wire, copper.... | 1203 | Textile parts | 1131 |
| Tanners, flashes | 1111 | Taps & drills, pipe..... | 1113 | Telephone wire, steel..... | 1207 | Textile print roll engravers. | 1122 |
| Tanners' skiving knives.... | 570 | Taps & reamers, pipe..... | 1113 | Telephone woodwork | 1114 | Textile shear knives..... | 570 |
| Tanners, tongs | 1142 | Tar boards | 70 | Telephone & switchboard cords | 279 | Textile shearing machines.. | 1129 |
| Tanners' & curriers' tools.. | 1146 | Tar burners | 177 | Telephone & telegraph wire. | 1207 | Textile soaps (see mill soaps). | |
| Tannery machinery | 668 | Tar furnaces (asphalt, pitch & tar) | 454 | Telephones, interior | 1114 | Textile supplies | 1117 |
| Tannic acid | 2 | Tar heaters | 523 | Telephones & apparatus.... | 1114 | Textiles, asbestos | 37 |
| Tanning extracts | 428 | Tar kettles | 565 | Telescopes & marine glasses | 64 | Thalpotasimeters | 1133 |
| Tap bolts | 82 | Tar mfrs. (see coal tar prod- ucts). | | Telpher hoists (see telepher- age, electric conveying). | | Theatre architects | 34 |
| Tap borers | 84 | Tar oils | 797 | Telpherage, electric convey- ing | 1115 | Theatre brass work..... | 1133 |
| Tap borers or reamers, lead pipe | 937 | Tar pails | 805 | Temperature regulators (see regulators, heat). | | Theatre curtains, asbestos.. | 1133 |
| Tap cutters | 303 | Tar pine | 1113 | Tempered copper castings... 206 | | Theatre curtains, steel.... | 1133 |
| Tap drills | 327 | Tar pumps | 922 | Tempered copper castings for commutator bars | 147 | Theatre decorations..... | 308 |
| Tap & reamer cutters | 303 | Tar rakes (asphalt or tar).. | 935 | Tempered furnaces (see fur- naces, annealing). | | Theatre dimmers | 313 |
| Tap & reamer wrenches.... | 1214 | Tar spreaders | 1058 | Tempering compounds | 241 | | |
| Tape cutting machines, in- sulating | 1111 | Tar stills | 1079 | Tempering furnaces, lead.... | 456 | | |
| Tape, electrical friction.... | 1111 | Tar tanks | 1109 | Tempering machinery, clay... 629 | | | |
| Tape finishing machines.... | 1123 | Target traps | 1151 | Tempering oils | 797 | | |
| Tape, insulating | 1111 | Tarpaulins, wagon covers, etc. | 1113 | Tempering tanks | 1109 | | |
| Tape, "Kerite" | 1111 | Tarred yarns | 1215 | Tempering & case hardening compounds | 241 | | |
| Tape lead | 1111 | Tarring machines, paper.... | 651 | | | | |
| Tape, Manson protecting.... | 1111 | Teaming wagons | 1152 | | | | |
| Tape, picker loops..... | 1127 | Teasel gigs | 1123 | | | | |
| Tape, waterproof | 1111 | | | | | | |
| Taper drills, Morse..... | 325 | | | | | | |

| Page | Page | Page | Page |
|---|--|---|--|
| Theatre mechanical equip- ment1133 | Tickets & transfers, street railway1134 | Timber caps (joist anchor & timber) 564 | Tire bolting machines..... 670 |
| Theatre seating (see opera chairs & assembly seating). | Tide recording gauges..... 469 | Timber carriers 592 | Tire cements 213 |
| Theatre ventilation (see ven- tilating apparatus). | Tie cars 192 | Timber dogs 315 | Tire drilling machines..... 670 |
| Thermal bath cabinets 51 | Tie out chains..... 220 | Timber graining machines.. 669 | Tire fluid1140 |
| Thermometer & barometer scales1021 | Tie plate gauges..... 470 | Timber grapples 490 | Tire grips, chain..... 497 |
| Thermometers1133 | Tie plate punches..... 925 | Timber, pencil 818 | Tire heaters (see furnaces, tire heating). |
| Thermometers, chemical ...1133 | Tie plate setters.....1032 | Timber preserving machin- ery 669 | Tire heating furnaces..... 458 |
| Thermometers, heating.....1133 | Tie plate swages.....1100 | Timber straps1096 | Tire measuring wheels.....1195 |
| Thermometers, hot well....1134 | Tie plates 831 | Timber tongs1141 | Tire pumps 922 |
| Thermometers, oven1134 | Tie plugs 836 | Timbers, bridge, creosoted.. 109 | Tire repair kltts.....1140 |
| Thermometers, resistance...1134 | Tie rods 949 | Timbers, derrick 309 | Tire repair plugs & patches 836 |
| Thermometers, steam a hot water1134 | Ties, bale1134 | Time checks, factory.222 & 1137 | Tire rivets 946 |
| Thermometers, thermostat..1134 | Ties, concrete steel, railroad.1135 | Time detectors, watchman's.1186 | Tire setters1032 |
| Thermometers, vacuum pan.1134 | Ties, cotton1135 | Time lock mfrs..... 588 | Tire shrinkers1044 |
| Thermostat thermometers ...1134 | Ties or compressors, fodder.1135 | Time recorders 1137 | Tire trueing machines..... 670 |
| Thermostat valves1172 | Ties, pit (posts & ties)..... 902 | Time recorders, clocks..... 231 | Tire upsetters1162 |
| Thermostatic fire alarms, etc. 8 | Ties, poles & posts.....1135 | Time recording system clocks 231 | Tire valves1172 |
| Thermostats1134 | Ties, railroad (see ties, poles & posts). | Time stamps1065 | Tire welding machines..... 670 |
| Thickness gauges 470 | Ties, steel railroad.....1136 | Time switches1103 | Tires, automobile1140 |
| Thimbles, chimney1134 | Ties, veneer & wall.....1176 | Timers, spark1138 | Tires, cushioned, cellular, etc.1140 |
| Thimbles, fire-place1134 | Ties, wall1183 | Tin, bar & pig.....1138 | Tires, pneumatic, double tube1140 |
| Thimbles, wire rope.....1134 | Tight joint fittings..... 443 | Tin bath tubs..... 52 | Tires, pneumatic, single tube1141 |
| Third rail block system.....1134 | Tight joint flanges..... 443 | Tin boxes, seamless..... 86 | Tires, rubber1141 |
| Third rail insulators 546 | Tighteners, belt 58 | Tin cans 180 | Tires, solid1141 |
| Third rail system, electric.1134 | Tile, art & decorative.....1136 | Tin clad fire doors..... 319 | Tires, steel1141 |
| Thread board, steel1131 | Tile, bake oven1136 | Tin cop tubes.....1120 | Tissue paper printing presses 908 |
| Thread cut-off machines..... 669 | Tile ceilings, "Gypsite".... 207 | Tin cylinders1121 | Toasters1141 |
| Thread cutting dies..... 312 | Tile, cement roofing..... 998 | Tin ears1138 | Tobacco counter cutters... 303 |
| Thread cutting machines..... 669 | Tile "conosera" roofing..... 998 | Tin ferrules 433 | Tobacco cutting machines... 670 |
| Thread cutting tools.....1146 | Tile, cork1136 | Tin foil1138 | Tobacco dryers 331 |
| Thread dressers1121 | Tile decorative (art & decora- tive)1136 | Tin foil machinery..... 669 | Tobacco dryers, leaf..... 331 |
| Thread gauges 470 | Tile dealers (mantel, grate & tile) 746 | Tin lard palls..... 805 | Tobacco farming machinery. 670 |
| Thread machinery1131 | Tile ditching machines..... 669 | Tin lined lead pipe..... 822 | Tobacco hoeing machines... 670 |
| Thread rolling machinery... 669 | Tile drain1136 | Tin, phosphor 819 | Tobacco knife grinding ma- chines 670 |
| Thread tool grinding ma- chinery 669 | Tile, enameled1137 | Tin plate dipperies.....1138 | Tobacco knives 570 |
| Threaded wires1209 | Tile, enameled metal.....1137 | Tin plate importers.....1138 | Tobacco machinery 670 |
| Threaders, bicycle spoke... 63 | Tile, encaustic floor.....1137 | Tin plate lacquering & var- nishing machines 669 | Tobacco nails 790 |
| Threaders, shuttle1129 | Tile facing machines..... 669 | Tin plate mfrs.....1138 | Tobacco planters 827 |
| Threaders, wire rod.....1134 | Tile, fire-proof, hollow..... 440 | Tin plate mfrs.....1138 | Tobacco presses 908 |
| Threading dies, bolt..... 311 | Tile, glass1137 | Tin plate mill machinery & construction 669 | Tobacco screws1029 |
| Threading machines, conduit 632 | Tile, glass roofing..... 998 | Tin roofing (see roofing tin). | Tobacco shears1038 |
| Threading machines (bolt threading) 621 | Tile, greenhouse1137 | Tin roofing caps..... 992 | Tobacco transplanters1149 |
| Threading machines, lag screw 644 | Tile, illuminating (see vault & sidewalk lights). | Tin signs1046 | Tobin metal bronze..... 111 |
| Threading machines, sheet metal 669 | Tile, illuminating, wholesale mfrs.1137 | Tin spoons1058 | Toboggan slides1141 |
| Threading machines, stay bolt 667 | Tile importers1137 | Tin tags1104 | Toe calks, steel.....1141 |
| Threading & pointing ma- chines, wood screw 675 | Tile interlocking metal....1137 | Tin washers1185 | Toggle bolts 83 |
| Three pass hot blast stoves.1095 | Tile lined refrigerators & cooling rooms 940 | Tin & sheet metal ferrules. 433 | Toggle bolts, boiler patch... 83 |
| Three way cocks 236 | Tile machinery, drain.....636 | Tincture presses1128 | Toggle presses 908 |
| Three way facing machines. 638 | Tile making machinery..... 669 | Tincture presses, druggists'.. 908 | Toilet paper 816 |
| Three way prism skylights.1051 | Tile mantel & grate dealers.. 746 | Tinned wire1208 | Toilet paper cabinets..... 178 |
| Three & four groove drills. 327 | Tile, metallic roofing, Span- ish shapes 998 | Tinners, roofers, etc..... 956 | Toilet paper holders..... 535 |
| Thresher belting mfrs..... 62 | Tile, "Moravian"1137 | Tinners' furnaces 457 | Toilet paper machines..... 670 |
| Thresher cylinder wrenches.1214 | Tile, mosaic ceramic floor..1137 | Tinners' grooving machines. 670 | Toilet pin machinery..... 670 |
| Thresher self-feeders & band cutters1030 | Tile, non-absorbent floor..1137 | Tinners' hammers 500 | Toilet soap machinery..... 670 |
| Thresher teeth1134 | Tile, opalite1137 | Tinners' rivets 946 | Tomato machinery, canners' 670 |
| Threshers1134 | Tile, promenade1137 | Tinners' rivet sets & head- ers1140 | Tomato transplanting ma- chines 670 |
| Threshers, bean & pea.....1134 | Tile, promenade roofing..... 998 | Tinners' rules1001 | Tom-toms, for hoisery.....1131 |
| Threshers, corn1134 | Tile, "Roman Grecian" roof- ing 998 | Tinners' snips1054 | Tongs, blacksmiths'1141 |
| Threshers, rice1134 | Tile, roofing (see roofing tile, various kinds). | Tinners' stakes1064 | Tongs, bull1141 |
| Threshers, straw preserving & rye1134 | Tile, rubber1137 | Tinners' supplies1140 | Tongs, carbon1141 |
| Threshers & cleaners, pea- nut1134 | Tile, sanitile1137 | Tinners' tools & machinery.. 670 | Tongs, chain1141 |
| Throttle cocks 236 | Tile, sizing machines..... 669 | Tinners' tools (plumbers' & tinnings)1145 | Tongs, charging1141 |
| Throttle valves1172 | Tile, slate floor.....1051 | Tinners' trimmings1140 | Tongs, cross tie.....1141 |
| Throttles for generator valves1134 | Tile, slate roofing (see roof- ing, slate). | Tinning machinery 670 | Tongs, crucible1141 |
| Thrust bearings 55 | Tile, terra cotta roofing..... 998 | Tinning plants, wire mill (galvanizing & tinning)... 461 | Tongs, girder1141 |
| Thrust collars 239 | Tile, terra cotta roofing, glazed 998 | Tinning & japanning.....1140 | Tongs, hog1141 |
| Thumb blanks 66 | Tile, terra cotta roofing, graduated 998 | Tins, bung, for barrels.... 176 | Tongs, ice1141 |
| Thumb bolts 83 | Tile, terra cotta roofing, Spanish shapes 998 | Tinsel & copper cords..... 279 | Tongs, joist or timber.....1141 |
| Thumb latches 575 | Tile, terra vitrae.....1137 | Tinware mfrs.....1140 | Tongs, machinists'1141 |
| Thumb screws1029 | Tile, vitreous floor1137 | Tippling machines 670 | Tongs, piano hammer shank.1141 |
| Thumb tacks1104 | Tiles, locomotive 589 | Tipple scales1021 | Tongs, plpe1142 |
| Thumbhole cutting ma- chines 669 | Tiles, mortised1137 | Tipples, mine1140 | Tongs, rail1142 |
| Ticket cancelling boxes..... 88 | Tiling, acid proof.....1137 | Tipples & trestles, coal, steel 233 | Tongs, roofing1142 |
| Ticket cancelling machines (see cancelling machines). | Tiling enamels, for concrete & plaster 376 | Tipples & trestles, steel....1079 | Tongs, saw brazing1142 |
| Ticket choppers & destroy- ers1134 | Tiling, spades1056 | Tips, gas burner.....1140 | Tongs, skidding (see tools, logging & lumbermen's). |
| Ticket machines, fabric pin..1122 | Tiling, interlocking rubber..1137 | Tips, mine car.....1140 | Tongs, stone handling.....1142 |
| Ticket printing presses..... 908 | Tillery canning coppers..... 279 | Tips or caps, railway.....1140 | Tongs, tanners'1142 |
| Tickets, pin1128 | Tillery copper canning hold- ers 535 | Tips, rubber1140 | Tool appliances, pneumatic. 899 |
| | Tills, alarm1137 | Tips, shaft1140 | Tool bags, linemen's.....1142 |
| | Timber caps 84 | Tire applying machines..... 670 | Tool bags, masons'.....1142 |
| | | Tire applying machinery, rubber 660 | Tool bags, plumbers'.....1142 |
| | | Tire benders 63 | Tool boxes, farriers'.....1142 |
| | | Tire bolts 83 | Tool chest lock mfrs..... 588 |
| | | Tire bolt holders..... 535 | Tool chests1142 |
| | | Tire bolt nuts..... 795 | Tool cleaning kettles, soda. 565 |
| | | | Tool gauges, worm thread.. 470 |
| | | | Tool grinders, plain..... 495 |
| | | | Tool grinders, universal.... 496 |
| | | | Tool grinding machinery (see grinders, plain tool). |
| | | | Tool holders, etc..... 535 |
| | | | Tool lubricants, pneumatic. 899 |
| | | | Tool lubricators, pneumatic. 899 |
| | | | Tool makers' vises.....1181 |
| | | | Tool post grinders..... 496 |
| | | | Tool post wrenches.....1214 |

| | Page | | Page | | Page | | Page |
|---|------|---|-----------|---|------|---|------|
| Tool posts | 1142 | Tools, slaters' | 1146 | Track cleaners (see scrapers or cleaners, track). | | Transportation scales | 1020 |
| Tool racks | 927 | Tools, stone cutters' pneumatic | 899 | Track cleaners, street railway | 1149 | Trap door rings | 944 |
| Tool repairing, pneumatic | 899 | Tools, stoncutters' (granite & stoncutters') | 1144 | Track drills (see drills, railway track). | | Trapeze rings | 944 |
| Tool sets | 1142 | Tools, stone planers' tooling | 1142 | Track gauges | 470 | Trap rock | 1149 |
| Tool sets, automobile | 1142 | Tools, tanners' & curriers' | 1146 | Track jacks | 563 | Traps, back water | 1150 |
| Tool sharpeners | 1036 | Tools, telephone construction | 1146 | Track laying cars | 192 | Traps, bath & basin | 1150 |
| Tool stands, portable | 1142 | Tools, thread chasing | 1146 | Track levels | 583 | Traps, bell | 1150 |
| Tool steel | 1079 | Tools, thread cutting | 1146 | Track movers, railway | 1149 | Traps, bends & ferrules, lead | 582 |
| Tool stones | 1092 | Tools, tinners' (plumbers' & tinners') | 1145 | Track punches | 925 | Traps, bi-metallic plated | 1150 |
| Tooling tools for stone planers | 1142 | Tools, toy | 1146 | Track sanders | 1002 | Traps, centrifugal | 1150 |
| Tools, adjustable milling | 1142 | Tools, turpentine | 1147 | Track scales | 1021 | Traps, gopher | 1150 |
| Tools, artesian well & drilling (see machinery, well drilling). | | Tools, walk cleaning | 1147 | Track scraper springs | 1061 | Traps, grease | 1150 |
| Tools, asphalt paving | 1142 | Tools, watchmakers' & jewelers' | 1147 | Track scrapers or cleaners | 1024 | Traps, lead | 582 |
| Tools, automobile | 1142 | Tools, wood turning | 1147 | Track spikes, railroad | 1057 | Traps, mole | 1150 |
| Tools, bell centering | 1142 | Tools & supplies, pneumatic | 899 | Track sprinklers (see cars, sprinkling, street railway). | | Traps, railway steam | 1150 |
| Tools, blacksmiths' | 1142 | Toothpick mfrs. | 1147 | Track tools, railroad | 1145 | Traps, rat & mouse | 1150 |
| Tools, boiler-makers' | 1142 | Top braced cranes | 295 | Track wrenches | 1214 | Traps, sewer gas | 1150 |
| Tools, boring | 1142 | Top hanger window screens | 1025 | Tracking, overhead (see trolleys & trolley tracks, overhead). | | Traps, sewer, tide & back-water | 1150 |
| Tools, brush (machinery & tools) | 624 | Top swages, etc. | 1100 | Tracking slaughter house | 1149 | Traps, steam | 1150 |
| Tools, burring | 1142 | Topmast balls | 1147 | Tracks, hay carrier | 1149 | Traps, target | 1151 |
| Tools, butchers' | 1143 | Top mauls (ship or top) .. | 767 | Tracks, portable | 1149 | Traps, vacuum | 1151 |
| Tools, calking | 1143 | Top & bottom fullers | 453 | Tracks, steel highway | 1149 | Traps, waste | 1151 |
| Tools, carders' | 1119 | Topping machines, paper box .. | 651 | Traction ditching machines .. | 635 | Traveler cleaners | 1131 |
| Tools, carving | 1143 | Tops, automobile & vehicle .. | 1147 | Traction engine cars | 192 | Traveler cups | 1131 |
| Tools, cement sidewalk | 1143 | Tops, chimney | 222 | Traction engines | 425 | Travelers, ferry | 1151 |
| Tools, comb | 1143 | Tops, chimney, galvanized .. | 222 | Traction engines, gasoline .. | 425 | Travelers, ring | 1131 |
| Tools, concrete finishing | 1143 | Tops, chimney, revolving .. | 222 | Traction locomotives | 591 | Traveling bed planing machines | 670 |
| Tools, condensor packing | 1143 | Tops, marble table | 1147 | Traction testing machines .. | 669 | Traveling bridges | 109 |
| Tools, contractors', etc. | 271 | Tops, milk & beer bottle .. | 1147 | Trade checks | 222 | Traveling coal elevators | 374 |
| Tools, coopers' | 1143 | Tops, pole | 1147 | Trade names, automobile .. | 40 | Traveling coal scales | 1019 |
| Tools, cutting-off | 1143 | Torch lamps | 575 | Trade names of steam & hot water heaters | 521 | Traveling crane wheels | 1195 |
| Tools, diamond | 1143 | Torches, alcohol | 1147 | Trade names, water closet .. | 1186 | Traveling cranes | 295 |
| Tools, diamond point turning | 1143 | Torches, car inspectors' .. | 1147 | Trade publications | 909 | Traveling cranes, concentric .. | 293 |
| Tools, diamond set | 1143 | Torches, cast iron | 1147 | Trademark stamps | 1131 | Traveling cranes, electric .. | 293 |
| Tools, drill sharpening | 1143 | Torches, electric | 1147 | Trademarks, models & monograms, wood | 782 | Traveling cranes, rope driven .. | 295 |
| Tools, drilling & finishing, oil well | 1144 | Torches, engine (shop & engine) | 1148 | Trailer connectors | 249 | Traveling derricks | 309 |
| Tools, electricians' (see tools, linemen's). | | Torches, factory, acetylene .. | 1147 | Train cars | 192 | Traveling drills | 327 |
| Tools, emergency | 1144 | Torches, factory & mine .. | 1147 | Train connectors, electric .. | 249 | Traveling elevators, coal .. | 374 |
| Tools, expansion boring | 1144 | Torches, gasoline blow | 1147 | Train order paper | 816 | Traveling hoists | 534 |
| Tools, farriers' | 1144 | Torches, gasoline, etc. | 1147 | Train order semaphores | 1030 | Traveling hoists, electric .. | 533 |
| Tools, fine, machinists' | 681 | Torches, locomotive | 1148 | Train order signals | 1045 | Traveling jacks | 563 |
| Tools, firing | 1144 | Torches, railroad, hand | 1148 | Train rolls | 1149 | Traveling link grates | 491 |
| Tools, framing | 1144 | Torches, shop & engine | 1148 | Training benches, manual .. | 62 | Traveling rollers | 951 |
| Tools, granite & stone cutters' | 1144 | Torches, wall | 1148 | Tram cars | 192 | Trays, brass | 1151 |
| Tools, gun cleaning & reloading | 1144 | Torpedoes | 1148 | Tram rails (see rails, light). | | Trays & sinks | 1047 |
| Tools, haying | 1144 | Torpedoes, toy | 1148 | Trammels | 1149 | Tread horse powers | 538 |
| Tools, high speed | 1144 | Torpedoes & fuses, railway signal | 1148 | Tramway trucks | 1156 | Treadle presses | 908 |
| Tools, ice | 1144 | Tote box trucks | 1156 | Tramways, wire rope | 1206 | Treadles, foot power | 1151 |
| Tools, jewelers' | 1147 | Tote boxes, sheet steel | 86 | Tramways & pulley blocks for cotton mills | 1149 | Treads, car step | 1151 |
| Tools, key seating | 1145 | Touring cases, automobile (baskets, hampers, etc.) .. | 50 | Transfer cars | 192 | Treads, dog power | 1151 |
| Tools, knurling | 1145 | Tow | 1148 | Transfer carts | 193 | Treads, floor | 1151 |
| Tools, lathe threading | 1145 | Tow mill machinery | 670 | Transfer chains | 220 | Treads, safety | 1151 |
| Tools, lathe & planer | 1145 | Towel bars (see bath room fixtures, etc.) | 927 | Transfer cranes & tables .. | 295 | Treads, stair, carborundum .. | 1063 |
| Tools, linemen's | 1145 | Towel racks | 927 | Transfer letters | 582 | Treads, steel, cast iron | 1063 |
| Tools, logging & lumberman's | 1145 | Towel rollers (see racks, hat, coat & towel) | | Transfer ornaments | 798 | Tree guards | 498 |
| Tools, machine | 618 | Towels, absorbent machinery wiping | 1148 | Transfer ornaments, car ceiling | 1149 | Tree insulators | 546 |
| Tools, machinists' | 743 | Tower clocks | 231 | Transfer presses, engravers' .. | 904 | Tree moss | 785 |
| Tools, machinists' hand | 1145 | Tower coal handling | 1148 | Transfer scrolls | 1149 | Tree trimmers | 1152 |
| Tools, marble workers' (see tools, granite & stone cutters'). | | Tower riveting cranes | 295 | Transfer tables, electric, for railroads | 1149 | Treenail lathes | 579 |
| Tools, masons' | 1145 | Towers, cement cooling | 1148 | Transfer tables (turn & transfer tables) | 1159 | Treenail wedges | 1189 |
| Tools, meter sealing | 1145 | Towers, chemical | 1148 | Transfers, decalcomania .. | 305 | Treenails | 1151 |
| Tools, milling machine | 1145 | Towers, holsting, for coal & ore | 1148 | Transfers & tickets, street railway | 1134 | Trellises, wire | 1208 |
| Tools, mining | 1145 | Towers, steel (see towers & tanks, water) | | Transformers | 1149 | Trench excavating cableways (sewer & trench excavating) | 178 |
| Tools, mitrelng | 1145 | Towers, water cooling | 1148 | Transformers, static | 1149 | Trench excavating conveyors | 277 |
| Tools, molders' | 1145 | Towing hooks | 537 | "Transite" lumber asbestos doors | 318 | Trench machines (see sewer & trench excavating machines). | |
| Tools, oystermen's | 1145 | Towing machines | 670 | Transits | 1149 | Trepanning saws | 1018 |
| Tools, packing | 1145 | Toy banks | 47 & 1148 | Transits & levels for engineers | 1149 | Trestles, coal, steel (tipples & trestles) | 233 |
| Tools, paper hangers' | 1145 | Toy motors, electric | 787 | Translucent fabrics | 1149 | Trestles, painters' & masons' .. | 1151 |
| Tools, paving | 1145 | Toy or small engines | 425 | Transmission chains, power .. | 219 | Trestles, shaft hanging | 1151 |
| Tools, pitching | 1145 | Toy tools | 1146 | Transmission, speed, Reeves' variable system of | 1057 | Trestles, steel frame | 1151 |
| Tools, planer (lathe & planer) | 1145 | Toy torpedoes | 1148 | Transmission or speed changing gears | 472 | Trestles steel (tipples & trestles) | 1079 |
| Tools, plasterers' | 1145 | Toys, electric | 1148 | Transmitters, telephone .. | 1114 | Triangles | 1151 |
| Tools, plumbers' & tinners' .. | 1145 | Toys, iron & steel | 1148 | Transom adjusters | 1149 | Triangular trucks | 1156 |
| Tools, pneumatic | 899 | Toys, rubber | 1148 | Transom bars & corner posts .. | 280 | Triers, cheese | 1151 |
| Tools, pneumatic stone carving | 899 | Toys & novelties | 1148 | Transom catches | 207 | Trim (see interior hardwood work; also sashes, doors & blinds, etc.). | |
| Tools, pneumatic stone cutters' | 899 | Trace chains | 220 | Transom centers (sash & transom) | 216 | Trimmers, bolt head | 1151 |
| Tools, pump | 1145 | Trace trlmming machines .. | 670 | Transom chains (sash & transom) | 220 | Trimmers, grass | 1151 |
| Tools, railroad track | 1145 | Tracing cloth powder | 1149 | Transom lifts | 1149 | Trimmers, hedge | 1151 |
| Tools, riveting (see pneumatic riveters). | | Tracing cloth & paper | 1149 | Transparent wire glass | 481 | Trimmers, lamp | 572 |
| Tools, rock drill sharpening | 1146 | Tracing paper (drawing & tracing) | 816 | Transplanters, tobacco | 1149 | Trimmers, lath (binders & trimmers) | 575 |
| Tools, roll coverers' | 1128 | Tracking wheels | 1195 | Transplanting machines, tomato | 670 | Trimmers, lumber | 1151 |
| Tools, saddlery | 1146 | Track barrows | 49 | | | Trimmers, paper hangers' .. | 1151 |
| Tools, saw | 1017 | Track bolts | 83 | | | Trimmers, slate | 1151 |
| Tools, scraping | 1146 | Track brooms & brushes .. | 111 | | | Trimmers, spoke | 1152 |
| Tools, screw machine | 1146 | Track chisels | 224 | | | Trimmers, tree | 1152 |
| Tools, sewer contractors' | 1146 | Track cleaners (scrapers or cleaners) | 1024 | | | Trimmers, wall paper | 1152 |
| Tools, ship carpenters' | 1146 | | | | | Trimming, lathes | 580 |
| Tools, shoemakers' | 1146 | | | | | Trimming machines, box | 623 |

| Page | Page | Page | Page | | | | |
|--|-------------|--|------|---|------|--|------|
| Trimming machines (punch- ing, bevelling & trim- ming) | 657 | Trucks, dye house | 1154 | Tubing, bronze | 1157 | Turning machines, cross head pin | 634 |
| Trimming machines, wood .. | 675 | Trucks, fibre | 1154 | Tubing, celluloid | 1157 | Turning mills (boring & turning) | 777 |
| Trimming presses | 908 | Trucks, firemen's (ladders & trucks) | 571 | Tubing, condenser | 1157 | Turning mills, vertical (bor- ing & turning) | 777 |
| Trimming, boat & launch .. | 70 | Trucks, foundry | 1154 | Tubing, cotton | 1157 | Turning & chucking machines, automatic | 629 |
| Trimming, car | 182 | Trucks, gasoline engine | 1154 | Tubing, flexible | 1157 | Turnings, lignum vitae | 584 |
| Trimming, carriage | 183 | Trucks, hook & ladder | 1154 | Tubing, flexible metallic | 1157 | Turnings, wood (see wood trimmings, various kinds) .. | 1159 |
| Trimming, carriage plated .. | 183 | Trucks, ingot | 1155 | Tubing, German silver | 1157 | Turnstiles | 1159 |
| Trimming, clock | 230 | Trucks, logging & lumber | 1155 | Tubing, glass | 1157 | Turntable device, loco- motive | 1159 |
| Trimming, fancy box | 1152 | Trucks, magnet | 1155 | Tubing, gold | 1157 | Turntable equipments | 1159 |
| Trimming, furniture | 1152 | Trucks, mill | 1132 | Tubing, gold & silver plated .. | 1157 | Turntable machinery | 670 |
| Trimming, house & porch .. | 541 | Trucks, nail keg | 1155 | Tubing, iron lined | 1157 | Turntable motors | 787 |
| Trimming, lavatory | 581 | Trucks, packers' | 1155 | Tubing, nickel, brass & cop- per | 1157 | Turntable motors, gasoline .. | 787 |
| Trimming, stove | 1094 | Trucks, pipe | 1155 | Tubing, nickel silver | 1157 | Turntables, automobile | 1159 |
| Trimming, tanners' | 1140 | Trucks, plate glass | 1155 | Tubing, organ | 1157 | Turntables for industrial railways | 1160 |
| Trimming, trunk & bag | 1156 | Trucks, printers' form | 1155 | Tubing, paper (see tubes, mailing, etc.) | 1157 | Turntables, mine (switches & turntables) | 1103 |
| Trlp hammers | 500 | Trucks, roll paper | 1155 | Tubing, platinum | 1157 | Turntables, overhead | 1160 |
| Triplex pumps | 922 | Trucks, rolling mill | 1155 | Tubing, plumbers' seamless .. | 893 | Turpentine | 1160 |
| Tripods, drill | 1152 | Trucks, slag | 1155 | Tubing, rubber | 1157 | Turpentine tools | 1147 |
| Tripoli | 1152 | Trucks, slate quarry | 1155 | Tubing, seamless, in brass, copper & nickel plated, plumbers' | 893 | Turret attachments | 1160 |
| Tripoli filters | 435 | Trucks, steel, gasoline en- gine | 1155 | Tubing, seamless steel | 1158 | Turret drills | 327 |
| Tripoli flour | 445 | Trucks, step ladder | 1155 | Tubing, silver | 1158 | Turret forming machines .. | 670 |
| Tripping machines | 670 | Trucks, store, warehouse & factory | 1155 | Tubing, square | 1158 | Turret heads | 518 |
| Trlturators | 1152 & 1098 | Trucks, stove | 1156 | Tubing, square, seamless steel | 1158 | Turret lathes | 580 |
| Trolley arc lamp & bell cords | 279 | Trucks, tote box | 1156 | Tubing, steel | 1158 | Tuyere irons | 561 |
| Trolley bases | 50 | Trucks, tramway | 1156 | Tubing, structural | 1158 | Tuyere pipe | 823 |
| Trolley brooms (see brooms & brushes, track) | 206 | Trucks, triangular | 1156 | Tubing, tapered seamless | 1158 | Tuyere valves | 1172 |
| Trolley catchers & retrievers | 206 | Trucks, varnish kettle | 1156 | Tubing, wood | 1158 | Tuyeres & coolers | 1160 |
| Trolley cords | 279 | Trucks, wall paper | 1156 | Tubing, zinc | 1158 | Tweezers, piano makers' .. | 1160 |
| Trolley ears | 1152 | Trucks, waste | 1156 | Tubing & mouldings, special shapes | 1158 | Twine balling machines .. | 1132 |
| Trolley forks | 449 | Trucks, wire mill | 1156 | Tubs, bath (see bath tubs, various kinds) | 1132 | Twine binder | 1160 |
| Trolly y harps or forks (see trolley line materials) .. | 533 | Truing, brake shoe wheel .. | 88 | Tubs, bleaching | 1132 | Twine boxes | 87 |
| Trolley hoists, electric | 899 | Truing device, commutator .. | 240 | Tubs, dye | 1122 | Twine, harness | 1124 |
| Trolley hoists, pneumatic .. | 899 | Truing device, wheel | 1191 | Tubs, galvanized iron | 1158 | Twine holders | 535 |
| Trolley insulators (see in- sulators) | 571 | Truing stands, bicycle wheel | 63 | Tubs, hoisting & dumping .. | 1158 | Twine making machinery (see, cordage machinery) .. | 37 |
| Trolley ladders (rolling & trolley) | 571 | Trunk hardware mfrs. | 508 | Tubs, laundry (see laundry tubs, various kinds) | 1158 | Twine rope & cord, asbestos | 1160 |
| Trolley line materials | 1152 | Trunk hinges | 531 | Tubs, mash | 1158 | Twine, seine | 279 |
| Trolley pole brackets | 88 | Trunk lock mfrs. | 588 | Tubs, plant | 1158 | Twine & cordage mfrs. | 62 |
| Trolley pole paints | 814 | Trunk machinery | 670 | Tubs, self-dumping | 1158 | Twist belting mfrs. | 225 |
| Trolley poles, iron & steel .. | 900 | Trunk nails | 790 | Tubs, slate, bath | 1053 | Twist drill chucks | 304 |
| Trolley poles, wood (see ties, poles & posts) | 192 | Trunk slat staining & var- nishing machines | 670 | Tubs, wire cleaning | 1158 | Twist drill cutters | 470 |
| Trolley repair cars | 192 | Trunk straps | 1096 | Tubular bells | 57 | Twist drill gauges | 470 |
| Trolley retrievers (catchers & retrievers) | 206 | Trunk & bag hardware mfrs | 508 | Tubular chains | 220 | Twist drill grinders (see grinders, drill) | 535 |
| Trolley span bolts, wire works | 83 | Trunk & bag trimmings | 1156 | Tubular lanterns | 575 | Twist drill sleeves | 1053 |
| Trolley springs | 1061 | Trunk & suit case lock mfrs | 588 | Tubular rivets | 946 | Twist drill sockets | 1055 |
| Trolley switches | 1103 | Truss hoops | 537 | Tubular steel barrows | 49 | Twist drills | 327 |
| Trolley track scales | 1022 | Truss rods (see rods, bridge & roof) | 1062 | Tubular steel wheels | 1196 | Twist drills, letter | 327 |
| Trolley tracks, overhead | 1152 | Try & mitre squares | 1062 | Tubular track hangers | 504 | Twist or round belting mfrs. | 788 |
| Trolley vestibule shades | 1034 | Tryers, butter & cheese | 1156 | Tubular turnbuckles | 1159 | Twisted mouldings | 1208 |
| Trolley wagons | 1182 | Tryers, ham | 1156 | Tubular well valves | 1172 | Twisted wire | 1132 |
| Trolley wheel bushings | 178 | Tub handles | 501 | Tubular & artesian well sup- plies (see machinery, well drilling) | 497 | Twister ring, oiling device | 1126 |
| Trolley wheel machines | 670 | Tub & bucket shooks | 1043 | Tumbler holders, etc. | 535 | Twister stop motions | 1132 |
| Trolley wheels | 1195 | Tub & pail machinery | 670 | Tumbler washers (bottle & tumbler) | 1183 | Twisters, carpets | 1132 |
| Trolley wire | 1208 | Tube binding machines | 621 | Tumbling machines, handle .. | 642 | Twisters, cordage | 1132 |
| Trolley wire clips | 230 | Tube cleaners (boiler flue & tube) | 228 | Tumbling mills | 781 | Twisters, cotton | 1132 |
| Trolley wire connectors | 249 | Tube cutters | 303 | Tumbling or rumbling bar- rels | 48 | Twisters, silk | 1132 |
| Trolley wire hangers | 504 | Tube cutting machines | 670 | Tungsten | 1158 | Twisters, wool | 1132 |
| Trolley wire pick-ups | 1152 | Tube drills, oil | 325 | Tungsten metal | 769 | Twisting frames (see twist- ers) | 673 |
| Trolley & track door hang- ers | 317 | Tube expanders | 1156 | Tunnel cars | 192 | Twisting machines, wire .. | 675 |
| Trolleys & tramways | 1149 | Tube filling machines | 670 | Tunnel cars, rotary | 335 | Two-part teeth | 1114 |
| Trolleys & trolley tracks, overhead | 1152 | Tube hole punches (hand & tube hole) | 924 | Turbine dynamos | 922 | Tying machines, warp | 1132 |
| Tropenas steel castings | 206 | Tube mill machinery (pipe & tube mill) | 654 | Turbine pumps | 1158 | Type, rubber | 1160 |
| Troughs, conveyor | 273 | Tube mills (pipe & tube) | 824 | Turbine water wheels | 1158 | Type, wood | 1160 |
| Troughs, watering | 1152 | Tube reducing machines | 670 | Turbines, air | 1158 | Typesetting & type distribut- ing machines | 670 |
| Trowels | 1152 | Tube rolling machinery | 670 | Turbines, hydraulic | 1158 | Typewriter carbon papers .. | 1161 |
| Trowels, butter | 1153 | Tube rolling & cutting ma- chines, paper | 670 | Turbines, steam | 1158 | Typewriter ribbon cutting machines | 1161 |
| Trowels, molders' (see tools, molders) | 1153 | Tube straightening machines (pipe & tube straightening) | 654 | Turf edgers | 1159 | Typewriter ribbons | 1161 |
| Truck bands, rubber | 1153 | Tube tapering machines | 670 | Turkish emery | 1159 | Typewriter rolls | 955 |
| Truck casters | 194 | Tube & flue cleaners, boiler | 228 | Turn over buckets | 822 | Typewriter stands | 1161 |
| Truck cranes | 295 | Tubes, boiler | 72 | Turn pins | 1159 | Typewriters | 1161 |
| Truck haulers, electric | 537 | Tubes, brass & copper (see tubing, brass & copper) .. | 1156 | Turn & transfer tables | 1159 | Typewriters, adding & bill- ing | 1161 |
| Truck hooks | 571 | Tubes, corrugated | 1156 | Turnbuckles, blind | 1157 | Typewriters, multiple | 1161 |
| Truck ladders (crane & truck) | 571 | Tubes, despatch, pneumatic .. | 896 | Turnbuckles, tubular | 1159 | | |
| Truck wheels | 1196 | Tubes, grain drill | 1156 | Turnbuckles, wrought iron | 1159 | | |
| Truck wheels, steel | 1195 | Tubes, insulating (see in- sulators; also conduits) .. | 1156 | Turned shafting | 1035 | | |
| Truck & body bolsters, car .. | 182 | Tubes, mailing, etc. | 1156 | Turned wood boxes | 87 | | |
| Trucks, adjustable clamp .. | 1153 | Tubes, map | 899 | Turned wood novelties | 1210 | | |
| Trucks, aerial | 1153 | Tubes, pneumatic | 1156 | Turners, cake | 1159 | | |
| Trucks, assembling | 1153 | Tubes, porcelain | 1057 | Turners, log | 592 | | |
| Trucks, bag holder | 1153 | Tubes, speaking | 1130 | Turning clamps | 228 | | |
| Trucks, bag & barrel | 1153 | Tubes, spinning | 1156 | Turning devices, crank | 296 | | |
| Trucks, baggage | 1154 | Tubes, weldless steel | 1156 | Turning lathes, broom han- dle (see broom handle turning machinery) | 577 | | |
| Trucks, basket | 1154 | Tubes, wiring (see insula- tors; also conduits) | 1130 | Turning lathes, dumb bell .. | 578 | | |
| Trucks, binder & header | 1154 | Tubes, worsted spindle | 1130 | Turning lathes, pike pole .. | 578 | | |
| Trucks, book | 1154 | Tubes & caissons, pneumatic, for bridge piers | 899 | Turning lathes, table leg .. | 579 | | |
| Trucks, bottlers' | 1154 | Tubes & flue cleaners, boiler | 71 | Turning lathes, ten pin | 579 | | |
| Trucks, box | 1154 | Tubing, aluminum | 1156 | Turning machines, crank pin | 633 | | |
| Trucks, brick | 1154 | Tubing, asbestos braided | 1157 | | | | |
| Trucks, canning factory | 1154 | Tubing, bedstead, iron or steel | 1157 | | | | |
| Trucks, car, steam & elec- tric | 1154 | Tubing, bicycle | 1157 | | | | |
| Trucks, concrete mixer | 1154 | Tubing, brass lined | 1157 | | | | |
| Trucks, core oven | 1154 | Tubing, brass & copper | 1157 | | | | |
| Trucks, creamery | 1154 | | | | | | |
| Trucks, dry kiln | 1154 | | | | | | |

U

| | |
|---|------|
| Umbrella parts, steel | 1161 |
| Umbrella rod steel | 1079 |
| Umbrella stands | 1066 |
| Umbrella wire | 1208 |
| Underground cables | 178 |
| Underwear dryers | 1121 |
| Underwear folding & cutting machines | 1123 |
| Underwear labels | 1125 |
| Underwriters' water relief valves | 1172 |

| | Page | | Page | | Page | | Page |
|--|------|--|-------------|---|------|---|------|
| Unfading green roofing slate | 997 | Valve milling machines.... | 647 | Valves, special designs | 1171 | Vehicle wheels, steel..... | 1195 |
| Unfading green slate | 1052 | Valve motors | 787 | Valves, standpipe | 1171 | Vehicles, childrens' | 1176 |
| Unfading mottled roofing slate | 997 | Valve re-seating machines.. | 671 | Valves, steam air..... | 1171 | Vehicles, steel, odorless.... | 795 |
| Unfading purple roofing slate | 997 | Valve re-seating reamers... 938 | | Valves, steam feed..... | 1171 | Velocipede cars | 192 |
| Unfading purple & red slate..... | 1052 | Valve seat planing machines 671 | | Valves, stop | 1171 | Velocipede cars, gasoline motor | 192 |
| Unifying & intensifier blue print salts | 69 | Valve seats, ball..... | 1163 | Valves, straightway (see valves, gate)..... | 1172 | Velocity meters | 770 |
| Union elbows | 336 | Valve springs | 1061 | Valves, syphon | 1172 | Velvet cutters | 1121 |
| Unions | 1161 | Valve stem packing..... | 805 | Valves, tank | 1172 | Velvet looms | 1126 |
| Unions, brass, brazing & flange | 1162 | Valve testing device | 1163 | Valves, thermostat | 1172 | Vending machines..... | 671 |
| Unions & nipples, soldering..... | 1162 | Valve wheel machinery..... | 671 | Valves, throttle | 1172 | Veneer built-up woods..... | 1176 |
| Unit group system of multiple control | 1162 | Valve wheels | 1163 & 1196 | Valves, tire | 1172 | Veneer cotton cans..... | 1118 |
| Uuits, resistance | 942 | Valve & plug testing..... | 1163 | Valves, tubular well..... | 1172 | Veneer cutting machines... 671 | |
| Universal bails | 45 | Valves, acid | 1163 | Valves, tuycre | 1172 | Veneer drying machines... 671 | |
| Universal bolters | 79 | Valves, Adams or Y..... | 1163 | Valves, underwriters water relief | 1172 | Veneer knives | 570 |
| Universal drills | 327 | Valves, air | 1163 | Valves, vacuum, automatic air | 1172 | Veneer mfrs. | 1176 |
| Universal grinders | 496 | Valves, air discharge, pressed steel | 1164 | Valves, vault | 1172 | Veneer presses | 908 |
| Universal joints | 564 | Valves, air, for coal mines..... | 1164 | Valves, vulcabeston | 1172 | Veneer seating | 1176 |
| Universal milling machines. 647 | | Valves, altitude | 1164 | Valves, water relief..... | 1172 | Veneer & wall ties..... | 1176 |
| Universal plates | 832 | Valves, ammonia | 1164 | Valves, whistle | 1172 | Veneered & hardwood doors. 319 | |
| Universal screw cutting gauges | 470 | Valves, angle | 1164 | Vanes, weather | 1189 | Veneering clamps | 228 |
| Universal tool & cutter grinders | 496 | Valves, anti-freezing..... | 1164 | Vannern, frue | 1172 | Veneers, quartered sawed oak | 1176 |
| Unloaders, sugar cane car | 1162 | Valves, asbestos packed..... | 1164 | Vanning machines | 671 | Venetian awnings..... | 42 |
| Unloaders & loaders, ballast | 45 | Valves, back pressure..... | 1164 | Vapor heating system..... | 528 | Venetian blinds | 66 |
| Unloading machines, freight, portable | 671 | Valves, back water & sewer gas | 1164 | Vapor system of heating... 528 | | Venetian & Roman mosaics. 784 | |
| Unmounted bells & gongs .. | 57 | Valves, balance | 1164 | Vapor vacuum system of heating | 528 | Ventilated ridgings, globe... 943 | |
| Upholsterers' hammers | 500 | Valves, balanced lever..... | 1164 | Variable speed counter shafts | 289 | Ventilated school & hotel wardrobes | 1183 |
| Upholsterers' nails | 791 | Valves, ball | 1164 | Variable speed self-starting motors | 787 | Ventilating apparatus for power plants, factories, etc. | 1176 |
| Upholsterers' tack mfrs. | 1104 | Valves, blast furnace..... | 1164 | Variators | 1172 | Ventilating apparatus, mechanical | 1177 |
| Upholstering hardware mfrs. 508 | | Valves, blast & gas..... | 1164 | Variety molding machines.. 671 | | Ventilating apparatus, ship..... | 1177 |
| Upholstering springs | 1060 | Valves, blind | 1165 | Variety sawing machines... 671 | | Ventilating apparatus, sky-light | 1048 |
| Upholstery looms | 1126 | Valves, boiler feed | 1165 | Variety turning lathes..... | 580 | Ventilating caps | 181 |
| Upright & bench corking machines | 633 | Valves, boiler stop..... | 1165 | Varnish brushes | 112 | Ventilating engineers (heating & ventilating) consulting | 528 |
| Upset rods | 949 | Valves, butterfly | 1165 | Varnish cans (paint & varnish) | 180 | Ventilating engineers (heating & ventilating) contracting | 528 |
| Upsetters, tire | 1162 | Valves, check | 1165 | Varnish cloth | 1172 | Ventilating fans, engine connected (see blower mfrs.). | |
| Upsetting machines | 671 | Valves, chimney | 1165 | Varnish insulating | 546 | Ventilating fans (exhaust or ventilating) | 429 |
| Upsetting machines, bolt .. | 621 | Valves, chronometer | 1165 | Varnish kettle trucks..... | 1156 | Ventilating* grates | 491 |
| Upsetting & forging machines | 671 | Valves, closet flushing..... | 1165 | Varnish makers' machinery. 671 | | Ventilating mine fans..... | 429 |
| Upsetting & welding machines, axle | 619 | Valves, coke oven | 1165 | Varnish mfrs. | 1172 | Ventilating registers (gas heating & ventilating).... | 940 |
| "Uralite" fireproof roof, ceilings & walls | 440 | Valves, corner | 1165 | Varnish mfrs.' supplies... 1174 | | Ventilating sash bolts..... | 1003 |
| Urinal slabs, etc., slate..... | 1052 | Valves, "Critchlow" | 1165 | Varnish meter | 769 | Ventilating sash lock mfrs... 588 | |
| Urinal stalls, porcelain .. | 1162 | Valves, cylinder drain..... | 1165 | Varnish removers | 1174 | Ventilating window locks... 1199 | |
| Utensils, cooking, pressed steel | 277 | Valves, exhaust | 1166 | Varnish renovator | 1174 | Ventilating & heating engineers, consulting | 528 |
| | | Valves, fibre | 1166 | Varnishes, agricultural implements | 1174 | Ventilating & heating engineers, contracting | 528 |
| | | Valves, fire extinguisher... 1166 | | Varnishes, asphaltum .37 & 1174 | | Ventilator controlling rods. 949 | |
| | | Valves, float | 1166 | Varnishes, automobile | 1174 | Ventilator mfrs..... | 1177 |
| | | Valves, flushing | 1166 | Varnishes, baking | 1174 | Ventilator testing apparatus | 1117 |
| | | Valves, foot | 1166 | Varnishes, cotton tie..... | 1174 | Ventilator wheels | 1177 |
| | | Valves, garbage | 1166 | Varnishes for all manufacturing purposes | 1174 | Ventilator & skylight combined | 1177 |
| | | Valves, gas log | 1166 | Varnishes, furniture | 1174 | Ventilators, brick wall..... | 1178 |
| | | Valves, gas main | 1166 | Varnishes, house | 1174 | Ventilators, car | 1178 |
| | | Valves, gas or coke oven... 1166 | | Varnishes, marine | 1174 | Ventilators, closet | 1178 |
| | | Valves, gas, "Slemen"..... | 1166 | Varnishes, railway & carriage | 1174 | Ventilators, ship | 1178 |
| | | Valves, gate | 1167 | Varnishes, shellac | 1174 | Ventilators, window | 1178 |
| | | Valves, gate, for water mains | 1167 | Varnishes & japans, asphalt. 1174 | | Verandas, iron (see grilles, wrought iron). | |
| | | Valves, generator | 1167 | Varnishing machines | 671 | Vermicelli machinery | 671 |
| | | Valves, globe & angle..... | 1167 | Varnishing machines (coating & varnishing)..... | 631 | Vernier calipers | 179 |
| | | Valves, greenhouse | 1168 | Varnishing machines for rubber mills | 671 | Vertible speed pulleys..... | 912 |
| | | Valves, gulland tank..... | 1168 | Varnishing machines, label. 644 | | Vertical boring & turning mills | 777 |
| | | Valves, high pressure..... | 1168 | Varnishing machines (tin plate lacquering & varnishing) | 669 | Vertical engines | 426 |
| | | Valves, hopper | 1168 | Vases, fountains, etc. 452 & 1175 | | Vertical grinders | 496 |
| | | Valves, hose | 1168 | Vats, cypress | 1175 | Vertical metal boring machines | 646 |
| | | Valves, hot & cold blast... 1168 | | Vault fronts & doors..... | 1175 | Vertical shears | 1038 |
| | | Valves, hydraulic | 1168 | Vault furniture, metallic (see bank & office fixtures, metallic). | | Vessels, acid | 2 |
| | | Valves, hydraulic pulpit... 1168 | | Vault light castings (side-walk & vault light)..... | 204 | Vestibule shades, trolley... 1034 | |
| | | Valves, indicator | 1168 | Vault lining, slate (see burial cases & vaults, slate). | | Vestibules, car | 1178 |
| | | Valves, lead | 1168 | Vault valves | 1172 | Vibrator mfrs..... | 1178 |
| | | Valves, lead lined | 1168 | Vault & floor lights, bar-lock | 1175 | Vibratory massage machines. 1178 | |
| | | Valves, leather | 1168 | Vault & sidewalk glass mfrs. 482 | | Vinegar machinery | 671 |
| | | Valves, lever | 1168 | Vault & sidewalk lights, plain & prismatic..... | 1175 | Vise, anvil & drilling machines, combined | 619 |
| | | Valves, liquid fuel regulating | 1168 | Vaults, bank | 46 | Vise drilling attachments... 1178 | |
| | | Valves, lock | 1168 | Vaults, bank & safety deposit | 47 | Vise pipe grip..... | 1178 |
| | | Valves, locomotive..... | 1168 | Vaults, burial, slate..... | 176 | Vise stands, portable..... | 1178 |
| | | Valves, motor tire..... | 1169 | Vaults, burial, stone..... | 176 | Vise & anvil combined.... 11 | |
| | | Valves, mud | 1169 | Veeder metal castings..... | 206 | Vise & drill combined.... 322 | |
| | | Valves, muffler | 1169 | Vegetable cutters | 304 | Vises, amateur | 1178 |
| | | Valves, needle | 1169 | Vegetable cutting machines. 671 | | Vises, anvill | 1178 |
| | | Valves, non-return | 1169 | Vegetable forks..... | 449 | Vises, band saw..... | 1178 |
| | | Valves, organ | 1169 | Vegetable knives (slaw & vegetable) | 569 | Vises, bench | 1179 |
| | | Valves, piston | 1169 | Vegetable parers (fruit & vegetable) | 816 | Vises, bicycle | 1179 |
| | | Valves, plug | 1169 | Vegetable slicers | 1053 | Vises, blacksmiths' | 1179 |
| | | Valves, pop safety..... | 1169 | Vehicle tops (automobile & vehicle) | 1147 | Vises, bolt header & shoeing, combined | 77 |
| | | Valves, power house..... | 1169 | Vehicle washers | 1185 | | |
| | | Valves, pressure reducing. 1169 | | | | | |
| | | Valves, pump | 1170 | | | | |
| | | Valves, radiator | 1170 | | | | |
| | | Valves, radiator, corner... 1170 | | | | | |
| | | Valves, radiator, hot water. 1170 | | | | | |
| | | Valves, register | 1170 | | | | |
| | | Valves, regrinding | 1170 | | | | |
| | | Valves, regulating (see regulators) | 1170 | | | | |
| | | Valves, relief | 1170 | | | | |
| | | Valves, renewable seat.... 1170 | | | | | |
| | | Valves, reversing | 1170 | | | | |
| | | Valves, reversing, air or gas. 1170 | | | | | |
| | | Valves, rubber | 1171 | | | | |
| | | Valves, safety | 1171 | | | | |
| | | Valves, screw down check. 1171 | | | | | |
| | | Valves, sight feed | 1171 | | | | |
| | | Valves, snifting | 1171 | | | | |
| | | | | | | | |

| Page | Page | Page | Page |
|---|---|--|---|
| Vises, cabinet makers'.....1179 | Wagons, wire nail1182 | Washers, sand1002 | Water elevators for mine & quarry 374 |
| Vises, carpet1179 | Walk cleaning tools.....1147 | Washers, steel1184 | Water feeders (see boiler feeders). |
| Vises, chain pipe.....1179 | Walking cranes, jib..... 294 | Washers, street & hydrant.1185 | Water filters 435 |
| Vises, coachmakers' or wood-workers'1179 | Wall anchors 10 | Washers, tin1185 | Water filters, portable 435 |
| Vises, cutters'1179 | Wall boards1182 | Washers, vehicle1185 | Water gates (see valves, gate, for water mains). |
| Vises, drill1179 | Wall boxes 87 | Washers, warp1132 | Water gauge shields1040 |
| Vises, farmers'1179 | Wall coping mfrs. (see terra cotta, architectural). | Washers, window stop (screens & washers).....1200 | Water gauges1187 |
| Vises, foot1179 | Wall coverings1182 | Washers, wire1185 | Water heaters, automatic 523 |
| Vises, hand1179 | Wall coverings, imported....1183 | Washers, wool1132 | Water heaters, bath or tank 523 |
| Vises, horseshoers'1179 | Wall finish1183 | Washers, yarn1132 | Water heaters, coil 523 |
| Vises, jewelers'1179 | Wall hangers (I beam & wall) 503 | Washers & burrs, brass & copper1185 | Water heaters, instantaneous 523 |
| Vises, linemen's1179 | Wall irons 561 | Washing machinery, coal ... 630 | Water heaters, noiseless.... 524 |
| Vises, machinists'1180 | Wall paper cleaners.....229 | Washing machinery, ore.... 650 | Water indicators 543 |
| Vises, milling machine.....1180 | Wall paper, fireproof.....1183 | Washing machines, barrel... 620 | Water jacketed cylinders .. 304 |
| Vises, oval slide.....1180 | Wall paper, machinery..... 671 | Washing machines, clay..... 629 | Water jet air compressors .. 243 |
| Vises, parallel1180 | Wall paper mfrs.1183 | Washing machines, feather. 638 | Water level governors 484 |
| Vises, pattern makers'.....1180 | Wall paper trimmers1152 | Washing machines, hair.... 642 | Water level recorders 938 |
| Vises, picture frame.....1180 | Wall paper trucks1156 | Washing machines, pulp... 256 | Water lifts 583 |
| Vises, pin1180 | Wall plaster mfrs. 827 | Washing machines, rubber.. 660 | Water lifts, automatic1187 |
| Vises, pipe1180 | Wall plate bolts 83 | Washing & cleaning machines, can 625 | Water meter boxes 87 |
| Vises, pipe, combination....1180 | Wall plugs1183 | Washing & slicing machines, belt1097 | Water meters..... 770 |
| Vises, planer1180 | Wall scrapers1024 | Washing & testing apparatus, boiler 72 | Water motor fans 429 |
| Vises, portable1180 | Wall strap & pin anchors.. 10 | Waste boxes 87 | Water motors 787 |
| Vises, saw1180 | Wall ties1183 | Waste breaking machines, hard1118 | Water pipe clamps (hydrant & water pipe) 227 |
| Vises, solid box1181 | Wall ties (veneer & wall).1176 | Waste cans1180 | Water plants, filtering & aerating 434 |
| Vises, tool makers'.....1181 | Wall torches1148 | Waste cleaning machines....1185 | Water polishing mills 781 |
| Vises, woodworkers'.....1179 | Wall & ceiling fixtures, electric, adjustable 443 | Waste cocks (stop & waste) 236 | Water pressure gauges 470 |
| Vitreous enamel steel pipe.. 823 | Walls, fireproof, "Uralite". 440 | Waste cotton & wool.....1185 | Water pressure regulators .. 942 |
| Vitreous enameled steel fittings 443 | Wardrobes, office1183 | Waste dusters1122 | Water proofing (see waterproofing). |
| Vitreous floor tile1137 | Wardrobes, ventilated, school & hotel1183 | Waste end conveyors.....1120 | Water purifying compounds .1187 |
| Vitrified paving blocks (see vitrified paving brick mfrs.). | Ware, hollow, aluminum... 9 | Waste heat air heaters.... 8 | Water relief valves1172 |
| Vitrified paving brick mfrs.. 107 | Ware, hollow, enameled.... 375 | Waste heat utilizers (see fuel economizers). | Water relief valves, underwriters'1172 |
| Vitriol, blue 69 | Ware, indurated fibre..... 543 | Waste machines, cotton....1132 | Water screws, revolving ..1024 |
| Voltage regulators 942 | Warehouse clocks 231 | Waste machines, engine cleaning1132 | Water seal gas producers .. 462 |
| Voltmeters & ammeters.... 9 | Warehouse cranes, portable.. 296 | Waste oil filters..... 435 | Water softening & purifying apparatus1187 |
| Voltmeters & frequency indicator, combined1181 | Warehouse door hangers.... 316 | Waste paper baskets 51 | Water stations or columns, railroad1186 |
| Voting machines 671 | Warehouse hoists, portable.. 534 | Waste presses 908 | Water stills1079 |
| "Vulcabeston"1181 | Warehouse trucks1155 | Waste product machinery for packing houses 671 | Water stones (oil & water).1092 |
| "Vulcabeston" insulating... 546 | Warehouse dressers1121 | Waste savers1132 | Water supply, air pressure .1188 |
| "Vulcabeston" valves.....1172 | Warp dryers1121 | Waste saving machines (oil & waste saving)..... 650 | Water supply, pneumatic ...1188 |
| Vulcanized rubber emery wheel 374 | Warp presses1128 | Waste traps1151 | Water supply systems, pneumatic899 & 1188 |
| Vulcanizers1181 | Warp spools1131 | Waste trucks1156 | Water tank pumps, centrifugal 916 |
| Vulcanizers, rubber mill...1181 | Warp stop motions1126 | Waste & overflows, bath...1186 | Water tanks, mounted on wheels1109 |
| Vulcanizing presses 908 | Warp tying machine1132 | Waste case machinery..... 671 | Water tanks, pneumatic ...1108 |
| | Warp washers1132 | Waste case materials'1186 | Water tanks, railroad1109 |
| | Warpers1132 | Watch case materials'1186 | Water tanks & towers1110 |
| | Warpers, ball1132 | Watch demagnetizers 308 | Water tanks (towers & tanks)1110 |
| | Warpers, leese1132 | Watch screw rods 949 | Water tight coffer dams .. 238 |
| | Warpers, ribbon1132 | Watches, dashboard (clocks & watches) 231 | Water tight floors & cellars (see cement & concrete pavements). |
| | Warpers, slasher1132 | Watchmakers' lathes 580 | Water tower nozzles 793 |
| | Warpers & linkers, chain...1132 | Watchmakers' & jewelers' tools1147 | Water towers, fire boat....1188 |
| | Warping mills1132 | Watchman's clocks 231 | Water towers & tanks.....1110 |
| | Warping mills, sectional...1132 | Watchman's time detectors.1186 | Water tube boilers 77 |
| | Warps1132 | Water alarms, low, for boilers 8 | Water waste detectors .. 310 |
| | Washboard mfrs.....1183 | Water back couplings..... 291 | Water well derricks (oil & water) 796 |
| | Washboards, glass..... 482 | Water castings (gas & water) 201 | Water well derricks (oil & water well) 309 |
| | Wash tray fittings 443 | Water closet connection flanges 443 | Water wheel governors ... 484 |
| | Wash tray hinges 531 | Water closet mfrs.....1186 | Water wheels1188 |
| | Wash tray legs (sink & wash tray) 582 | Water closet plungers & waste pipe cleaner.....1186 | Water wheels, turbine....1158 |
| | Wash trays, porcelain (see bath tubs, porcelain). | Water closet pulls (see pulls, closet). | Water works, air pressure .1188 |
| | Washer cutters 304 | Water closet range.....1186 | Water works castings 206 |
| | Washer cutting machines... 671 | Water closet screws (see screws, plumbers'). | Water works contractors (see contractors, general). |
| | Washer making machines... 671 | Water closet seats & tanks (see plumbers' woodwork). | Water works, private1188 |
| | Washer & fuller combined..1132 | Water closet trade names .1186 | Water works pumps 922 |
| | Washer & gasket cutters... 304 | Water closets, anti-freezing.1186 | Water works supplies (gas & water works) 464 |
| | Washers, air1183 | Water closets, low down, combination1186 | Watering pots 902 |
| | Washers, air brake.....1183 | Water closets, school, institution, etc.1186 | Watering troughs1152 |
| | Washers, axle, hard fibre (see fibre mfrs. hard). | Water closets, ship1186 | Waterproof belting mfrs. .. 62 |
| | Washers, basket1183 | Water colorists & pen & ink artists, architectural 35 | Waterproof cement stains . 213 |
| | Washers, bottle & tumbler.1183 | Water columns or stations, railroad1186 | Waterproof compo board .. 241 |
| | Washers, brass & copper...1183 | Water columns, safety1187 | Waterproof paints 814 |
| | Washers, car box (see washers, fibre, etc.). | Water conductors (see conductor pipe mfrs.). | Waterproof paulins & covers 817 |
| | Washers, cast iron1184 | Water coolers 277 | Waterproof pumps (geared, oil or water) 918 |
| | Washers, cloth1132 | Water cooling radiators ... 928 | Waterproof sockets1055 |
| | Washers, copper1183 | Water cooling towers1148 | Waterproof surface compo board 241 |
| | Washers, fibre1184 | Water cranes for sprinkling wagons 296 | Waterproof tape1111 |
| | Washers, friction1184 | Water cranes, locomotive ... 295 | Waterproof wire1208 |
| | Washers, galvanized1184 | Water depth gauges 470 | Waterproofing, brick & cement 109 |
| | Washers, gauge glass..... 467 | | Waterproofing cloth1187 |
| | Washers, graphite1184 | | |
| | Washers, insulating1184 | | |
| | Washers, iron & steel....1184 | | |
| | Washers, lead1184 | | |
| | Washers, leather1184 | | |
| | Washers, lock1184 | | |
| | Washers, malleable iron...1184 | | |
| | Washers, metallic1184 | | |
| | Washers, metallic, for boiler makers1184 | | |
| | Washers, milk can1184 | | |
| | Washers, name plate.....1184 | | |
| | Washers, nickel plated....1184 | | |
| | Washers, phosphor bronze..1185 | | |
| | Washers, plumbers'1185 | | |
| | Washers, pulp board.....1185 | | |
| | Washers, rubber1185 | | |

| | Page | | Page | | Page | | Page |
|-------------------------------|-------------|-------------------------------|-------------|--------------------------------|------|------------------------------|------------|
| Waterproofing compounds | 1187 | Well wheels | 1196 | Wheels, wood | 1196 | Window blind adjusters | 1198 |
| Waterproofing materials | 1187 | Wells, artesian | 36 | Wheels, wood polishing | 1196 | Window bolts (door & win- | 80 |
| Waterproofing of floors, etc. | 1187 | Welt machines | 1132 | Wheels, worm | 1196 | dow) | |
| Waterproofing paint ma- | | Wet machines, paper mill | 672 | Wheels & axles, ball or roller | | Window brackets, clothes | |
| chins, compressed air | 671 | Wet tool grinders | 496 | bearing | 1196 | line | 1198 |
| Wattmeters | 1188 | Wharf builders (see dock | | Wheels & frames, sheave | 1038 | Window brushes | 112 |
| Wattmeters, prepayment re- | | builders) | | Whetstones | 1196 | Window cleaner rubbers | 1000 |
| cording | 1188 | Wharf drop gearing | 470 | Whiffletree bolts | 83 | Window cleaners | 229 |
| Wax floor polish, hard | 444 | Wheat & buckwheat scourers | 1022 | Whiffletrees, singletrees & | | Window cleaning appliances | |
| Wax mfrs., cabinet | 1188 | Wheel centers, car | 216 | doubletrees | 1047 | & guards | 1198 |
| Wax, paraffine | 1189 | Wheel chains, sprocket | 220 | Whims, horse | 1196 | Window display fixtures | 1198 |
| Wax, sealing | 1189 | Wheel chucks, car | 224 | Whip makers' machinery | 672 | Window fasteners | 430 |
| Wax tapers | 1189 | Wheel chucks (wire or wheel) | 225 | Whip stocks | 1196 | Window fixtures, car | 182 |
| Wax working machines | 671 | Wheel facing machines | 672 | Whisk broom machinery | 672 | Window frame machinery | 672 |
| Waxed or paraffine papers | 816 | Wheel gang plows | 834 | Whistle valves | 1172 | Window frame & sash, fire- | |
| Weaners, calf | 1189 | Wheel gauges | 470 | Whistles | 1196 | proof | 1198 |
| Weather proof wire | 1208 | Wheel guards | 498 | Whistles, air | 1196 | Window frame & sash, me- | |
| Weather strips | 1189 | Wheel hoes | 531 | Whistles, automobile & motor- | | talic | 1198 |
| Weather vanes | 1189 | Wheel machinery | 672 | boat | 1196 | Window frame & sash, | |
| Weavers' combs | 1120 | Wheel machinery, automobile | 619 | Whistles, chime | 1196 | wrought steel | 1199 |
| Weaving machinery (see | | Wheel machinery, metal | 646 | Whistles, conductors' & | | Window frames, iron for | |
| looms) | | Wheel polishing machines | 672 | starters' | 1196 | power houses, factories, | |
| Weaving machines, matting | 645 | Wheel presses, hydraulic | 906 | Whistles, fire alarm | 1196 | etc. | 1199 |
| Weaving machines, rattan | 658 | Wheel presses, hydrostatic | 906 | Whistles for fog, factory & | | Window glass (plate & win- | |
| Weaving machines, wire | 673 | Wheel rim turning machines | 672 | fire signals | 1196 | dow, wholesale & retail) | 476 |
| Weaving machines, wire | | Wheel riveting machines | 659 | Whistles, steam | 1196 | Window glass mfrs. | 482 |
| cloth | 672 | Wheel scrapers (see road | | White brick mfrs. | 108 | Window guards | 1199 |
| Weaving wire | 1208 | scrapers, drag & wheel) | | White bronze castings, Par- | | Window guards, bronze & | |
| Web tile system, sewers | 1033 | Wheel tenoning machines | 672 | son's | 203 | iron | 1199 |
| Webbing belt | 58 | Wheel thread sanding ma- | | White bronze statuary & | | Window guards, "Pitt-Bost- | |
| Webbing, cotton | 1132 & 1189 | chines | 672 | monuments | 1066 | wick' patents | 1199 |
| Webbing, elastic | 1132 | Wheel truing, brake shoe | 88 | White cement for mortar | 211 | Window handles | 501 |
| Webbing looms | 1126 | Wheel truing device | 1191 | White lead kegs, steel | 1197 | Window locks, ventilating | 1199 |
| Webbing & tapes for dyna- | | Wheel truing stands, bicycle | 63 | White lead machinery | 672 | Window operating devices | 1199 |
| mos, etc. | 1111 | Wheel walking plows | 835 | White lead mfrs. | 1197 | Window pole nooks | 537 |
| Webs, loom | 1125 | Wheel & drag scrapers | 1024 | White lead, sublimed | 1197 | Window reflectors | 939 |
| Websters' system of steam | | Wheelbarrow grass seeders | 1030 | White marble importers | 751 | Window roller screens | 1025 |
| heating | 528 | Wheelbarrow hoists, con- | | White metal | 1197 | Window rubbers, car | 182 |
| Wedge lead | 1189 | tractors' & builders' | 532 | White metal alloys | 9 | Window sash holder, auto- | |
| Wedge & monumental lead | 582 | Wheelbarrow mfrs. | 1191 | White metal castings | 206 | matic | 1199 |
| Wedges, steel | 1189 | Wheels, alundum & corun- | | White wood lined refrigera- | | Window sash pivots | 1199 |
| Wedges, treenail | 1189 | dum | 9 | tors & cooling rooms | 940 | Window sash, reversible | 1200 |
| Weeder teeth | 1114 | Wheels, automobile steering | 1192 | White zinc | 1215 | Window screen hangers | 504 |
| Weeders | 1189 | Wheels, ball bearing | 1192 | White & red arsenic | 36 | Window screen & awning, | |
| Weeders, garden | 1189 | Wheels, buffing & polishing | 1192 | White & red lead mfrs. | 1197 | combined | 1200 |
| "Weeds" slim taper files | 434 | Wheels, bull | 1192 | Whitening machines, leather | 645 | Window screens | 1025 |
| Weighers, loaders & baggers, | | Wheels, car | 1192 | Whitewash antiseptic | 1197 | Window screens, metal | |
| grain | 1190 | Wheels, car, ball or roller | | Whitewash brushes | 112 | frame | 1025 |
| Weighing machines, auto- | | bearing | 1193 | Whitewash spray machines | | Window screens, spring slid- | |
| matic | 619 | Wheels, card grinder | 1118 | (see paint spraying ma- | | ing | 1025 |
| Weighing machines, cement, | | Wheels, caster | 1193 | chines) | | Window screens, top hanger | 1025 |
| automatic | 628 | Wheels, chilled bridge | 1193 | Whitewash spraying ma- | | Window shade adjusters | 1200 |
| Weighing machines for filled | | Wheels, corrugated grinding | 1193 | chines | 672 | Window shade cloth | 232 |
| cans | 671 | Wheels, counting & printing | 1193 | Whiting machines, for pic- | | Window shade fixtures | 1200 |
| Weighing machines, hydro- | | Wheels, dial measuring | 1193 | ture frames | 672 | Window shade mfrs. | 1200 |
| static | 643 | Wheels, driving | 1193 | Whiting mfrs. | 1197 | Window shades | 1034 |
| Weighing, packing & bagging | | Wheels, driving, steel tired | 1193 | Whiting works machinery | 672 | Window springs | 1061 |
| machines, automatic | 672 | Wheels, dry kiln | 1193 | Wick, miners' | 781 | Window springs, burglar | |
| Weighing scales, sample | 1021 | Wheels, emery, vulcanized | | Wickets | 1197 | alarm | 1200 |
| Weighing & packing ma- | | rubber | 374 | Wicks, lamp, etc. | 1197 | Window stop adjusters | 1200 |
| chines, grain & flour, auto- | | Wheels, emery & corundum | 374 | Willowing machines, wool | 1132 | Window stop screws & wash- | |
| matic | 619 | Wheels, emery & corundum, | | Willson office & loft direc- | | ers | 1200 |
| Weights, counter | 1190 | with safety collars | 374 | tories, changeable | 1197 | Window swinging fixtures | 1200 |
| Weights, elevator | 1190 | Wheels, fifth | 1193 | Winches, electric | 1197 | Window ventilators | 1178 |
| Weights, hitching | 1190 | Wheels, flange | 1193 | Winches, pneumatic | 900 | Window & door caps, gal- | |
| Weights, sash | 1004 | Wheels, fly | 1193 | Winches & windlasses | 1197 | vanzied iron | 181 |
| Weiss central condensing | | Wheels for traveling cranes | 1193 | Wind-proof doors (storm & | | Window & plate glass, | |
| plants | 248 | Wheels, gear, hard fibre | 1193 | wind-proof) | 320 | wholesale & retail | 476 |
| Welded flanges | 443 | Wheels, granite polishing | 1193 | Winders | 1132 | Window & shutter handles | 501 |
| Welded pipe, iron & steel | 823 | Wheels, grinding, alundum | 496 | Winders, ball | 1132 | Windows, fireproof | 440 & 1200 |
| Welders, arc, electric | 11 | Wheels, hand & push car | 1193 | Winders, bobbin | 1117 | Windows, fireproof, auto- | |
| Welders, pneumatic flue | 896 | Wheels, logging car | 1193 | Winders, cone | 1133 | matic | 440 |
| Welding, autogenous | 1190 | Wheels, marine steering | 1194 | Winders, cop | 1133 | Windows, fireproof wire | |
| Welding compounds | 241 | Wheels, metal | 1194 | Winders, fillet | 1133 | glass | 1200 |
| Welding, electric | 1190 | Wheels, mine car | 1194 | Winders, hand | 1133 | Windows, Kalameined (air- | |
| Welding, Falk process | 1190 | Wheels, never slip snow | | Winders, hoisery | 1133 | tight) | 564 |
| Welding machines, electric | 637 | Wheels, plow | 1194 | Winders, magnet | 1197 | Windows, memorial | 768 |
| Welding machines, flue | 639 | Wheels, pipe cutter | 1194 | Winders, quill | 1133 | Windows, pantry, revolving | 815 |
| Welding pipe | 823 | Wheels, polishing, com- | | Winders, skein | 1133 | Windows, reversible (see | |
| Welding regenerative fur- | | pressed linen | 1194 | Winders, yarn | 1133 | window sash, reversible) | |
| naces | 458 | Wheels, pressed steel | 1194 | Winding doors | 320 | Windows, sempermerus iron, | |
| Welding, steam flue | 1190 | Wheels, propeller | 1194 | Winding drums | 328 | genuine Kalamein | 1200 |
| Weldless rings | 944 | Wheels, radiator valve wood | 1195 | Winding drums, pneumatic | 900 | Windows, sheet metal, for | |
| Weldless soft steel flanges | 443 | Wheels, reducing | 938 | Winding engines | 426 | fireproof construction | 1200 |
| Weldless steel tubes | 1156 | Wheels, rubber tired (casters | | Winding gears, cable reel | 471 | Windows, storm | 1200 |
| Weldless steel wire chains | 220 | & wheels) | 194 | Winding lathes | 580 | Windows & doors, Kala- | |
| Well augers | 38 | Wheels, rubber tired | 1195 | Winding machinery, wire | 674 | meined | 320 |
| Well buckets | 114 | Wheels, self-oiling | 1195 | Winding machines, armature | 619 | Windows & sash, air-tight | |
| Well chains | 220 | Wheels, sprocket | 1195 | coil | 619 | bronze, wood & Kala- | |
| Well contractors, artesian & | | Wheels, steel tired car | 1195 | Winding machines, ball | 1117 | meined | 1200 |
| driven | 1190 | Wheels, steel truck | 1195 | Winding machines, cloth | 1133 | Wine bottle racks | 927 |
| Well derricks, oil & water | 796 | Wheels, steel vehicle | 1195 | Winding machines, field coil | 638 | Wine making machinery | 672 |
| Well drilling machinery | | Wheels, steering | 1195 | Winding machines, hank | 1133 | Wine & cider presses | 908 |
| Well drilling machinery, | | Wheels, street car | 1195 | Winding machines, paper | | Wing nuts (thumb or wing) | 795 |
| adamantine coring | 672 | Wheels, tire measuring | 1195 | tube | 1133 | Winged calipers | 179 |
| Well drilling machinery, ro- | | Wheels, tracing | 1195 | Winding & sliding doors | 320 | Winers | 1201 |
| tary boring | 672 | Wheels, travelling crane | 1195 | Windlasses, arc lamp | 1197 | Winers, machine | 1201 |
| Well drills, artesian | 322 | Wheels, trolley | 1195 | Windlasses & winches | 1197 | Winers, silk machine | 1129 |
| Well machines, belt driven | 672 | Wheels, truck | 1196 | Windmill chains | 220 | Wining cloths | 1201 |
| Well supplies, artesian & | | Wheels, tubular, steel | 1196 | Windmill oilers | 797 | Wining & packing waste | |
| tubular | 1191 | Wheels, valve | 1163 & 1196 | Windmill pumps | 923 | machinery | 672 |
| | | Wheels, ventilator | 1177 | Windmill regulators | 942 | | |
| | | Wheels, water | 1188 | Windmill tanks | 1109 | | |
| | | Wheels, well | 1196 | Windmills | 1197 | | |
| | | Wheels, wire | 1196 | | | | |

| | Page | | Page | | Page | | Page |
|---|------|--|------------|---|------|--|------|
| Wire, aerial | 1201 | Wire heddles | 1124 | Wire, steel, telephone & telegraph | 1207 | Wood dumb bells | 332 |
| Wire, aluminum | 1201 | Wire, Hercules | 1204 | Wire stitching machines | 673 | Wood embossing machines (see embossing machinery). | |
| Wire, aluminum bronze | 1201 | Wire hinges | 531 | Wire straighteners & cutters, automatic | 1207 | Wood extract chippers | 223 |
| Wire, annealed (see wire, market). | | Wire hinging machines | 672 | Wire straighteners & reel, combined | 938 | Wood extracts, dye | 334 |
| Wire annealers | 10 | Wire holders | 535 | Wire straightening machines, roll & rotary | 673 | Wood faucets | 430 |
| Wire, annunciator or office | 1201 | Wire hooks | 537 | Wire straightening & cutting machines | 673 | Wood fibre machinery | 674 |
| Wire baking & annealing furnaces | 458 | Wire hoops | 538 | Wire, strand | 1207 | Wood fibre pipe | 823 |
| Wire, barbed | 1201 | Wire, insulated | 1204 | Wire stranding machines | 673 | Wood fillers | 1209 |
| Wire barbing machines | 672 | Wire insulating machinery | 673 | Wire stretchers | 1096 | Wood finish, flattine | 435 |
| Wire baskets | 51 | Wire lath | 576 | Wire, submarine (see cables, submarine). | | Wood finishes (see hard oil finish). | |
| Wire belting mfrs., steel | 62 | Wire, lead | 1205 | Wire table mats | 766 | Wood flagstaffs | 443 |
| Wire bins | 64 | Wire, lead covered (see cables, lead covered). | | Wire, tack | 1207 | Wood floor, interlocking | 1209 |
| Wire, bookbinders' | 1201 | Wire machinery | 673 & 1205 | Wire, tag | 1207 | Wood flooring machine knives | 570 |
| Wire, brass & bronze screw | 1201 | Wire, magnet | 1205 | Wire, telephone & telegraph | 1207 | Wood flooring machines | 674 |
| Wire, brass & copper | 1201 | Wire making machinery, electric | 637 | Wire terminals | 1115 | Wood floors, mosaic | 1209 |
| Wire, bright market (see wire, market). | | Wire, market | 1205 | Wire testing machines | 669 | Wood fluting machines | 674 |
| Wire bronze | 1201 | Wire mats & matting, steel | 766 | Wire thrashing barrels | 48 | Wood furniture, printers' | 459 |
| Wire, broom & brush | 1201 | Wire mattress | 1205 | Wire, tinned | 1208 | Wood gang sawing machines | 674 |
| Wire brushes, woven | 112 | Wire mattress machinery | 673 | Wire top dryers | 1121 | Wood graining machines | 674 |
| Wire buckles | 114 | Wire mattress machinery, woven | 677 | Wire trellises | 1208 | Wood hames (steel & wood) | 498 |
| Wire, cable | 1201 | Wire measuring machines | 673 | Wire, trolley | 1208 | Wood handle polishing machines | 675 |
| Wire cable conveyors | 277 | Wire mill galvanizing & tinning plants | 461 | Wire, twisted | 1208 | Wood handles (see handles, wood, various kinds). | |
| Wire cables, copper | 1201 | Wire mill trucks | 1156 | Wire twisting machines | 673 | Wood hitching posts | 901 |
| Wire, card | 1201 | Wire nail barbing machines | 673 | Wire, umbrella | 1208 | Wood keyhole escutcheons | 426 |
| Wire, chain | 1201 | Wire nail cleaning machines | 673 | Wire washers | 1185 | Wood lath, "Byrkit-Hall" | 576 |
| Wire chucks | 225 | Wire nail machinery (see nail mill machinery). | | Wire, waterproof | 1208 | Wood letters | 582 |
| Wire cleaning tubs | 1158 | Wire nail wagons | 1182 | Wire, weatherproof | 1208 | Wood, lignumvitae | 1209 |
| Wire clips, trolley | 230 | Wire nails | 791 | Wire weaving | 1208 | Wood lockers | 589 |
| Wire cloth | 1202 | Wire nails, cement coated | 789 | Wire weaving machinery | 673 | Wood mantels | 749 |
| Wire cloth, brass & bronze | 1203 | Wire, Norway iron | 1205 | Wire wheels | 1196 | Wood mitering machines | 674 |
| Wire cloth, brass & copper | 1203 | Wire, nut | 1205 | Wire winding machinery | 674 | Wood modelers, architectural (see carvers, wood, classic). | |
| Wire cloth measuring machines | 672 | Wire or wheel chucks | 225 | Wire, winding on hose | 1208 | Wood models, trade marks, monograms, etc. | 782 |
| Wire cloth weaving machines | 672 | Wire phonograph record holders | 938 | Wire, workers | 1208 | Wood mortising machines | 674 |
| Wire clothes lines | 232 | Wire, phosphor bronze | 1205 | Wire wound hose | 540 | Wood moulding machines | 674 |
| Wire, coiled spring | 1203 | Wire, piano or music | 1205 | Wire, zinc | 1209 | Wood mouldings, electrical | 788 |
| Wire coilers | 238 | Wire, picture | 1205 | Wire & cable covering machinery | 674 | Wood novelties, turned, etc. | 1210 |
| Wire, cold drawn steel | 1203 | Wire picture cord | 1203 | Wire & cable polishing machines | 674 | Wood ornaments | 798 |
| Wire connectors | 249 | Wire, pinion | 1205 | Wire & cables, rubber covered | 1209 | Wood pails & buckets | 805 |
| Wire, copper (brass & copper) | 1201 | Wire, platinum (sheet & wire) | 832 | Wire & cables, rubber covered | 1209 | Wood paneling machines | 675 |
| Wire, copper telephone | 1203 | Wire pointing machinery | 673 | Wire & iron hay racks | 517 | Wood paving blocks | 818 |
| Wire, coppered | 1203 | Wire poultry netting | 1205 | Wire & rod cutters | 303 | Wood pipe | 823 |
| Wire cord, picture | 1203 | Wire pullers | 910 | Wireless telegraph systems | 1114 | Wood pipe boring machines | 675 |
| Wire corn hoppers | 280 | Wire pullers or comealongs | 240 | Wires, drop | 1121 | Wood planers | 825 |
| Wire covering machinery (wire & cable) | 674 | Wire reels | 939 | Wires, guide | 1123 | Wood plugs | 836 |
| Wire crimping machines | 672 | Wire, resistance | 1205 | Wires, threaded | 1209 | Wood polishing lathes | 580 |
| Wire cutters (rod & wire) | 303 | Wire rings | 944 | Wiring, cleats, car | 229 | Wood polishing machines | 675 |
| Wire cutting pliers | 832 | Wire rivet machines | 673 | Wiring dies | 312 | Wood polishing machines for handles, ferrule, etc. | 1196 |
| Wire drawing benches (see wire drawing machines). | | Wire, rivet, staple, screw, etc. | 1206 | Wiring machines, blind | 621 | Wood preservatives | 1210 |
| Wire drawing dies | 312 | Wire rivets | 946 | Wiring presses | 909 | Wood preservers, Ligni-Salvor | 584 |
| Wire drawing grease | 491 | Wire rod shears | 1038 | Wiring & cleaning rods, conduit | 948 | Wood printing presses | 909 |
| Wire drawing machinery | 672 | Wire rods | 949 | Wiring & cleaning rods, conduit | 948 | Wood pulley lathes | 580 |
| Wire drawing plates | 832 | Wire rolling or flattening machines | 673 | Wiring & cleaning rods, conduit | 948 | Wood pulley machinery | 675 |
| Wire feeder | 1203 | Wire rope blocks | 68 | Wiring & cleaning rods, conduit | 948 | Wood pulp grinders | 496 |
| Wire fence, elastically welded | 431 | Wire rope cableways | 178 | Wiremen's calculating gauges | 470 | Wood pulp knives | 570 |
| Wire fence machines, woven | 677 | Wire rope clamps | 228 | Wood acids | 2 | Wood pulp presses | 909 |
| Wire fences & gates | 1203 | Wire rope clips | 230 | Wood advertising rulers | 1000 | Wood pumps | 923 |
| Wire ferrules | 433 | Wire rope coating & lubricant | 1206 | Wood alcohol | 8 | Wood radiator valve wheels | 1195 |
| Wire, fire detecting | 1204 | Wire rope indicators | 543 | Wood alcohol retorts | 943 | Wood rim pulleys | 912 |
| Wire, fixture | 1204 | Wire rope lubricants | 1206 | Wood automobile bodies | 70 | Wood ring & valve handle machines | 675 |
| Wire, flat & round tempered | 1204 | Wire rope making machinery | 673 | Wood ballot boxes | 45 | Wood rolling mats | 766 |
| Wire flattening mills | 781 | Wire rope, phosphor bronze | 1206 | Wood balls | 45 | Wood rolling partitions | 817 |
| Wire flooring, woven | 1204 | Wire rope pulley packing | 805 | Wood band sawing machines (see band sawing machines). | | Wood rolling shutters | 1044 |
| Wire, florists' | 1204 | Wire rope sheaves | 1039 | Wood barking machine knives | 570 | Wood rolls | 955 |
| Wire forming machinery | 672 | Wire rope sockets | 1055 | Wood barking machines | 674 | Wood rosettes & pickets (see ornaments, wood). | |
| Wire, fourdrinier | 1204 | Wire rope thimbles | 1134 | Wood barrows (see wheelbarrows). | | Wood rubbing machines | 675 |
| Wire, fuse | 460 | Wire rope tramways | 1206 | Wood bellows | 56 | Wood saw frames | 453 |
| Wire, galvanized (see wire, market). | | Wire rope & cables | 1206 | Wood bending machines | 674 | Wood saw rods | 949 |
| Wire galvanizing machinery | 672 | Wire, rubber covered | 1206 | Wood, bent | 1209 | Wood sawing machines | 675 |
| Wire gauge drills | 327 | Wire, rule | 1207 | Wood block flooring | 445 | Wood sawing machines, circular | 629 |
| Wire gauges | 470 | Wire, screen | 1207 | Wood boring machines | 674 | Wood sawing & splitting machinery | 675 |
| Wire, German silver | 1204 | Wire screens, rustless | 1026 | Wood boring machines, multiple | 674 | Wood saws, cut-off (see wood cutting-off machines). | |
| Wire glass | 482 | Wire shapes, special | 1207 | Wood boring machines, pneumatic | 900 | Wood screw heading machines | 675 |
| Wire glass, approved fire stop | 482 | Wire sheaves | 1039 | Wood brackets | 88 | Wood screw machinery | 675 |
| Wire glass fireproof windows | 1900 | Wire signs | 1046 | Wood bundling machines | 674 | Wood screw shaving & slotting machines | 675 |
| Wire glass, for all purposes | 1204 | Wire skylight glass | 482 | Wood burning furnaces | 458 | Wood screw slotting machines | 675 |
| Wire glass, for fireproof windows | 482 | Wire specialties | 1207 | Wood burring machines | 1133 | Wood screw threading & pointing machines | 675 |
| Wire glass, for show cases | 482 | Wire spikes | 1058 | Wood capitals, carved | 181 | Wood screws | 1029 |
| Wire glass shutters | 1044 | Wire spcke | 1207 | Wood carpets | 1209 | Wood shaping machines | 663 |
| Wire glass, skylight | 482 | Wire, spooled | 1207 | Wood carvers, classic | 193 | Wood signs | 1047 |
| Wire glass, transparent | 481 | Wire, spring coiling machines | 673 | Wood carving machines | 674 | Wood spirits | 1058 |
| Wire, gold & silver | 1204 | Wire spring machinery | 673 | Wood choppers' maus | 767 | Wood split pulleys | 912 |
| Wire, gold & silver plated | 1204 | Wire springs | 1061 | Wood cogs | 238 | Wood stains | 1210 |
| Wire goods mfrs. | 1126 | Wire, square | 1207 | Wood columns (see columns, porch). | | Wood surfacing machine knives | 570 |
| Wire goods, mill | 1126 | Wire, steel | 1207 | Wood cross arms, brackets, pins, etc. | 297 | Wood surfacing machines | 675 |
| Wire, gun wrapping | 1204 | Wire, steel ball | 1207 | Wood cut-off saws | 1018 | Wood switch handles | 1101 |
| Wire, hairpin | 1204 | Wire, steel band & hack saw | 1207 | Wood cutting-off machines | 674 | Wood tanks | 1109 |
| Wire handle machines | 672 | Wire, steel bush | 1207 | Wood dish machinery | 674 | | |
| Wire hanger twisting machines, cave trough | 636 | Wire, steel needle | 1207 | Wood dishes | 313 | | |
| Wire headers | 517 | Wire, steel spring | 1207 | Wood door knobs | 318 | | |

| | Page | | Page | | Page | | Page |
|---|------|--|------|---|------------|--------------------------------------|------|
| Wood tenoning machine | 570 | Woolen cards | 1119 | Wrenches, chuck | 1212 | X | |
| Wood tenoning machines | 675 | Woolen looms | 1128 | Wrenches, combination | 1212 | X-ray apparatus | 1215 |
| Wood trimming machine | 570 | Woolen machinery | 1133 | Wrenches, crocodile (see wrenches, alligator) | | Y | |
| Wood tubing | 1158 | Woolen mules | 1127 | Wrenches, dog | 1212 | Y fittings | 443 |
| Wood turned goods, etc. | 1210 | Woolen & worsted spoolers | 1131 | Wrenches, drop forged | 1212 | Yacht blocks | 68 |
| Wood turned house trimmings | 1210 | Workers, shutter | 1044 | Wrenches, engineers' & machinists' | 1212 | Yacht builders | 785 |
| Wood turners' sizes | 1048 | Worm gears | 473 | Wrenches, fixture | 1213 | Yacht cannon | 180 |
| Wood turning, architectural | 1210 | Worm hobs | 531 | Wrenches, flange | 1213 | Yacht plumbago | 837 |
| Wood turning & enameling | 1210 | Worm thread tool gauges | 470 | Wrenches, for underground valves | 1213 | Yacht ranges | 936 |
| Wood turnings, automatic | 1211 | Worm threading lathes | 580 | Wrenches, gas cock | 1213 | Yacht sails | 1001 |
| Wood turnings, electrical | 1211 | Worm wheel cutters | 304 | Wrenches, hammer handle | 1213 | Yacht spar lathes | 580 |
| Wood turnings, rope & spiral (see mouldings, various kinds) | | Worm wheels (see gears, worm) | | Wrenches, key adjusting | 1213 | Yacht & launch engines | 426 |
| Wood twisting machines | 675 | Worst apron leather | 1117 | Wrenches, knife handle | 1213 | Yard sticks | 1215 |
| Wood type | 1160 | Worst cards | 1119 | Wrenches, lag screw | 1213 | Yarn beam trucks | 1133 |
| Wood wheels | 1196 | Worst combing aprons | 1117 | Wrenches, locomotive | 1213 | Yarn chaining machines | 1133 |
| Wood wool | 1211 | Worst looms | 1126 | Wrenches, metal handle | 1213 | Yarn dressers | 1121 |
| Wood & iron cargo hoisting blocks | 67 | Worst machinery | 1133 | Wrenches, nut | 1213 | Yarn dryers | 1122 |
| Wood & iron snatch blocks | 68 | Worst mules | 1127 | Wrenches, nut, bit brace | 1213 | Yarn lath | 1215 |
| Wooden corking machines | 675 | Worst pumicing machines | 1128 | Wrenches, oil well swivel | 1213 | Yarn printing machines | 1133 |
| Wooden mallets | 745 | Worst spindle tubes | 1130 | Wrenches, pin | 1213 | Yarn raveling machines | 1128 |
| Wooden mauls | 767 | Worst spoolers | 1131 | Wrenches, pipe | 1213 | Yarn reels | 1128 |
| Wooden screws | 1029 | Worst & wool finishing machines | 1123 | Wrenches, pneumatic | 1214 | Yarn scales | 1129 |
| Wooden shells | 1133 | Woven leather belting mfrs. | 62 | Wrenches, ratchet | 1214 | Yarn scouring machines | 1129 |
| Wooden spoons | 1058 | Woven wire brushes | 112 | Wrenches, "S" | 1214 | Yarn spoolers | 1131 |
| Woodenware machinery | 675 | Woven wire fence machines | 677 | Wrenches, screw | 1214 | Yarn testing machines | 1131 |
| Woodenware & novelties mfrs. | 1211 | Woven wire fences | 431 | Wrenches, socket | 1214 | Yarn twisters | 1132 |
| Woodwork, architectural & interior | 1211 | Woven wire flooring | 1204 | Wrenches, spanner | 1214 | Yarn washers | 1132 |
| Woodwork, electrical | 1211 | Woven wire hammocks | 500 | Wrenches, special narrow jaw | 1214 | Yarn winders | 1133 |
| Woodwork, plumbers' | 895 | Woven wire mattress machinery | 677 | Wrenches, splicing | 1214 | Yarns, asbestos | 37 |
| Woodwork, rustic | 1001 | Woven wire springs | 1061 | Wrenches, sprocket | 1214 | Yarns, mop | 1215 |
| Woodwork, telephone | 1114 | Wrapper cutting machines | 677 | Wrenches, staybolt | 1214 | Yarns, tarred | 1215 |
| Woodworkers' vises (coach-makers or woodworkers) | 1179 | Wrapper printing machines | 640 | Wrenches, steel | 1214 | Yeast machinery, compressed | 631 |
| Woodworking lathes | 580 | Wrappers, bottle, corrugated | 84 | Wrenches, "T" | 1214 | Yellow or muntz metal | 1215 |
| Woodworking machinery | 676 | Wrappers, conduit joint | 1211 | Wrenches, tap & reamer | 1214 | Yoke riveters, pneumatic | 900 |
| Woodworking machinery, hand & foot power | 676 | Wrappers, conduit joint | 1211 | Wrenches, thresher cylinder | 1214 | Yokes, manheads, etc., pressed steel | 745 |
| Woods, veneer built-up | 1176 | Wrapping machines, can | 625 | Wrenches, tool post | 1214 | | |
| Wool burring machines | 1133 | Wrapping machines, fruit & merchandise | 677 | Wrenches, track | 1214 | | |
| Wool combs | 1120 | Wrapping machines, rubber mill | 677 | Wrenches, wagon skein | 1214 | | |
| Wool dressers | 1121 | Wrapping paper in rolls | 816 | Wringers, clothes | 1215 | | |
| Wool dryers | 1121 | Wrapping papers | 816 | Wringers, mop | 1215 | | |
| Wool finishing machines | 1123 | Wrecking blocks | 68 | Wringing machines | 1133 | | |
| Wool, mineral, mfrs. | 781 | Wrecking chains | 220 | Wrought "American" sash pulleys | 910 | | |
| Wool, rock (see mineral wool mfrs.) | | Wrecking cranes | 296 | Wrought brass corrugated hinges | 531 | | |
| Wool scales (cotton & wool) | 1020 | Wrecking frogs (see car replacers) | | Wrought brass & bronze door spring hinges | 530 | | |
| Wool scouring machines | 1129 | Wrecking jacks | 563 | Wrought bronze | 1215 | | |
| Wool spinning frames | 1123 | Wrecking pumps | 923 | Wrought bronze, architectural | 110 | | |
| Wool twisters | 1132 | Wrench machinery | 677 | Wrought iron chaplets | 221 | | |
| Wool wadding | 1211 | Wrenches, adjustable | 1211 | Wrought iron gas fixtures | 461 | | |
| Wool washer openers & feeders | 1127 | Wrenches, adjustable pocket | 1211 | Wrought iron grilles | 492 | | |
| Wool washers | 1132 | Wrenches, agricultural | 1211 | Wrought iron pipe | 823 & 1215 | | |
| Wool waste (cotton & wool) | 1185 | Wrenches, alligator | 1211 | Wrought iron pipe, cement lined | 823 | | |
| Wool willowing machines | 1132 | Wrenches, always ready | 1211 | Wrought iron turnbuckles | 1159 | | |
| Wool, wood | 1211 | Wrenches, automatic | 1211 | Wrought manfolds | 746 | | |
| Wool & shavings, steel | 1079 | Wrenches, automobile | 1211 | Wrought steel butt hinges | 531 | | |
| Wool & waste dusters | 1122 | Wrenches, basin | 1211 | Wrought steel pipe | 823 | | |
| Wool & worsted finishing machines | 1123 | Wrenches, bicycle & pocket | 1211 | Wrought steel pulleys | 912 | | |
| | | Wrenches, box | 1212 | Wrought steel pulleys, "American" | 910 | | |
| | | Wrenches, brace socket | 1212 | Wrought steel spring hinges | 530 | | |
| | | Wrenches, car builders' | 1212 | Wrought steel stair treads | 1063 | | |
| | | Wrenches, carriage | 1212 | Wrought steel window frame & sash | 1199 | | |
| | | Wrenches, chain | 1212 | | | | |
| | | Wrenches, chain pipe | 1212 | | | | |



FIGURE A. The Balanced Cable Crane as Installed at Palmers Great Works, Jarrow-on-Tyne, England. Taken while the battleship Lord Nelson was under construction. Patented by W. F. Brothers.

Clear span 870', 460' 6" above the Zambesi. Load ten long tons. For details see general drawings, page 8, and reading data, pages 6 to 9 our catalogue.

The *Scientific American* of January 27, 1906, in an exhaustive editorial concludes as follows: "Although this plant was erected as an experiment it has proved so satisfactory that the system is to be extended throughout the yards. Only in extra instances they will be of greater dimensions so they will cover and serve two berths simultaneously, each 700 feet long. The plant has been inspected by many of the most prominent British shipbuilders and it is stated that the system is to be applied to several other yards."



FIGURE C. The Balanced Cable Crane. Bridging the Gorge of the Zambesi. Patented by W. F. Brothers.



FIGURE B. The Balanced Cable Crane from Another View Point. Patented by W. F. Brothers.

Patented by W. F. Brothers.

This crane has every good feature to be found in the standard traveling crane together with the following striking advantages not to be found in any other:

1st. A transverse carriage of any merchandise by setting the bridge at any desired angle, after which the load-carriage is all that requires operating until another location is desired.

2nd. The maximum and minimum strains are the same, they are static. For further strong features see page 7, cuts 1, 2 and 3 and reading matter, pages 6 to 9 our catalogue.

The Balanced Cable Crane Company

135 WILLIAM STREET

NEW YORK CITY, U. S. A.

AGENCIES BEING ALLOTTED

STOP AT THE
NEW PRINCESS HOTEL
WHEN AT
ATLANTIC CITY

SOUTH CAROLINA AVENUE



200 FEET FROM BEACH

THE PRINCESS HOTEL is newly furnished throughout with rare taste, and possesses all modern requisites for convenience and comfort of the guests. Golf privileges and privilege of the Atlantic City Yacht Club extended to the guests. American and European Plan.

A BOOKLET WILL BE GLADLY FURNISHED UPON APPLICATION.

RATES, Running from \$12.50 to \$30.00 per week, according to location of the rooms.

FOR ANY FURTHER INFORMATION ADDRESS

CROWELL & COLLIER

THE PRINCESS HOTEL

Atlantic City, N. J.

HENDRICKS' COMMERCIAL REGISTER

OF THE UNITED STATES
FOR BUYERS AND SELLERS.

Index of Contents See Preceding Pages.

Advertisers' Index and Branch Offices of Advertisers See End of Book.

Abrasives

(See Emery & Corundum Mfrs.)

*Accelerators (Magnetic)

CUTLER-HAMMER CLUTCH CO., MILWAUKEE, WIS. (See adv. index & branch offices, end of book)

Accumulators (Chloride)

See Batteries, Storage)

Accumulators (Hydraulic)

Alliance Machine Co., Alliance, O.
Bethlehem Steel Co., South Bethlehem, Pa., & 100 B'way, New York
Birmingham Iron Foundry, Derby, Conn.
Boomer & Boschert Press Co. (Weighted), 329 W Water, Syracuse, N. Y.
Buckeye Iron & Brass Works, Dayton, O.
Burroughs, Chas. Co., 141 Commerce, Newark, N. J.
Canton-Hughes Pump Co., Canton, & Cleveland, O.
Chambersburg Engineering Co., Chambersburg, Pa.

CURRIER, CYRUS & SONS, Newark, N. J. (See adv. index, end of book)

Davenport Foundry & Machine Co., Davenport, Ia.

ELMES, CHAS. F. ENGINEERING Works, Fulton & N Sangamon, Chicago, Ill. (See adv. index, end of book)

Epping-Carpenter Co., A. V. R'y & 41st, Pittsburgh, Pa.

Farrel Foundry & Machine Co., Ansonia, Conn.

French Oil Mill Machinery Co., Piqua, O.

Lewis Foundry & Machine Co., Pittsburg, Pa.

Morgan Construction Co., Worcester, Mass.

MORGAN ENGINEERING CO., Alliance, O. (See adv. index, end of book)

Niles-Bement-Pond Co., 111 B'way, New York

Olsen, Tinius & Co., 500 N 12th, Phila., Pa.

Penn. Engineering Works, New Castle, Pa.

Power & Mining Machinery Co., 52 William, New York. Works: Cudahay, Wis.

Phila. Roll & Machine Co., S 23d & Washington av, Philadelphia, Pa.

Robertson, John & Co., 129 Water, Brooklyn, N. Y.

Scaife Foundry & Machine Co., 28th & Smallman, Pittsburg, Pa.

Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Philadelphia, Pa.

Southwark Foundry & Machine Co., Phila., Pa.

United Engineering & Foundry Co., Farmers' Bank bldg, Pittsburg, Pa.

Vulcan Works & Machine Co., Phila., Pa.

Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.

WATSON-STILLMAN CO., 26 Cortlandt, New York. (See adv. index, end of book)

Wood, R. D. & Co., 400 Chestnut, Phila., Pa.

WRIGHT WIRE CO., Worcester, Mass.

*Accumulators (Steam)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

Acetate of Lime

Bradford Chemical Co., Bradford, Pa.
Cummer, Diggins & Co., Cadillac, Mich.
Desmond, F. C., Thompsonville, Mich.
Gray Chemical Co., Port Alleghany, Pa.
Gray, Wm. S. & Co., 76 William, New York
Keessler, R. & Son, Brandt, Pa.
McKean Chemical Co., Williamsport, Pa.
Nusbaum Chemical Co., Bradford, Pa.
Otto Chemical Co., Williamsport, Pa.
Russell Chemical Co., Russell, Pa.
Smith, A. B. Chemical Co., Bradford, Pa.
Wyman Chemical Co., Port Alleghany, Pa.

Acetone

Albany Chemical Co., Albany, N. Y.
Billings, Hartford & Co., 84 High, Boston.
Harshaw, Fuller & Goodwin Co., 100 William, New York, & Electric bldg, Cleveland, O.
Kessler & Co., Brandt, Pa.
Roessler & Hasslacher Chemical Co., 100 William, New York
National Aniline & Chemical Co., New York
Schoellkopf, Hartford & Hanna Co., Buffalo, N. Y.

Acetylene Generators

(See Gas Machines, Acetylene.)

Acid (Acetic)

Baker & Adamson Chemical Co., Easton, Pa.
Billings, Clapp Co., Boston, Mass.
Bradford Chemical Co., Bradford, Pa.
Butterworth & Judson, Newark, N. J.
Cochrane Chemical Co., 55 Kilby, Boston, Mass.
Eastwood Chemical Co., Belleville, N. J.
Fuerst Bros & Co., 2 Stone, New York
Fuller & Fuller, 220 Randolph, Chicago, Ill.
General Chemical Co., 25 Broad, New York
Gordon, W. J. M. Chemical Co., Cincinnati, O.
Grasselli Chemical Co., 63 Wall, N. Y., & Cleveland, O.

Harrison Bros. & Co. (Inc.), Phila., Pa.

Kalbfleisch, Franklin H. Co., 31 Burling Slip, N. Y.

Kelso & Co., 209 S Clinton, Chicago, Ill.

Larkin & Cheffer Chemical Co., 109 St. George, St. Louis, Mo.

Mallinckrodt Chemical Works, St. Louis, Mo.

Merrimac Chemical Co., 75 Broad, Boston, Mass.

Nusbaum Chemical Co., Bradford, Pa.

Powers-Weightman-Rosengarten Co., 9th & Parrish, Philadelphia, Pa.

Roessler & Hasslacher Chemical Co., 100 William, New York

Sholes, C. E. & Co., 164 Front, New York

Squibb, E. R. & Sons, 36 Doughty, Brooklyn, N. Y.

Smith, A. B. Chemical Co., Bradford, Pa.

Thomsen Chemical Co., Race & Winder, Baltimore, Md.

Acid (Carbolic)

Albany Chemical Co., Albany, N. Y.
Baker & Adamson Chemical Co., Easton, Pa.
Barrett Mfg. Co., Phila., Pa.
Billings, Clapp & Co., Boston, Mass.
Bischoff, C. & Co., 88 Park pl, New York
GROSCHKE, BRUNO & CO., 30 Old slip, New York. (See adv. index, end of book)
Fuerst Bros. & Co., New York

Lehn & Fink, New York
McKesson & Robbins, 91 Fulton, New York
Mallinckrodt Chemical Works, St. Louis, Mo.
Merck & Co., University pl & 8th, New York
National Aniline & Chemical Co., New York
Powers-Weightman-Rosengarten Co., 9th & Parrish, Philadelphia, Pa.
Schoellkopf, Hartford & Hanna Co., Abbott rd, Buffalo, N. Y.
White Tar Co., 5 Front, New York

Acid Eggs (Cast Iron)

BETHLEHEM FOUNDRY & MACHINE Co., Front, South Bethlehem, Pa., & 149 B'way, New York. (See adv. index, end of book)
Caroline Iron Works, 723 S Caroline, Baltimore, Md.
Laidlaw-Dunn-Gordon Co., 114 Liberty, N. Y.
Valk & Murdock Iron Works, Charleston, S. C.

Acid (Hydrofluoric)

Dempwolf, E. A. & Sons (For Cleaning Castings), York, Pa.
Enequist, Erik, N 9th & Roebbing, Brooklyn, N. Y.
Feuchtwanger, L. & Co., 54 Fulton, New York
General Chemical Co., 25 Broad, New York
Mallinckrodt Chemical Works, St. Louis, Mo., & 90 William, New York
Wiarda, John C. & Co., 137 Hooper, Brooklyn, N. Y.

Acid (Nitric & Muriatic)

Baker & Adamson Chemical Co., Easton, Pa.
Barrett Mfg. Co., Phila., Pa.
Billings-Clapp Co., Boston, Mass.
Butterworth-Judson & Co., Newark, N. J.
Cochrane Chemical Co., 55 Kilby, Boston, Mass.
Cooper, Chas. & Co., 194 Worth, N. Y.
General Chemical Co., 25 Broad, N. Y.
Grasselli Chemical Co., Arcade bldg., Cleveland, Ohio, & 63 Wall, New York
Harrison Bros. & Co. (Inc.), Phila., Pa.
Kalbfleisch, Franklin H. Co., 31 Burling Slip, N. Y.
Lennig, Chas. & Co. (Inc.), 112 S Front, Phila., Pa.
Mallinckrodt Chemical Works, St. Louis, Mo.
Merrimac Chemical Co., 75 Broad, Boston, Mass.
National Acid Co., New Orleans, La.
Penna. Salt Mfg. Co., 115 Chestnut, Philadelphia, Pa.
Powers-Weightman-Rosengarten Co., 9th & Parrish, Philadelphia, Pa.
Sholes, C. E. & Co., 164 Front, New York
Thomsen Chemical Co., Race & Winder, Baltimore, Md.
United Zinc & Chemical Co., Kansas City, Mo.
Western Chemical Mfg. Co., Denver, Col.

Acid (Stearic)

Emery Candle Co., Cincinnati, O.
Harkness & Cowing Co., Cincinnati, O.
Manhattan Oil Co., 51 Front, New York
Proctor & Gamble Co., Cincinnati, O.
Work, M. Co., Cincinnati, O.
Will & Baumer Co., Syracuse, N. Y.

Acid (Sulphuric)

American Agl. Chemical Co., 2 Rector, New York
 American Reduction Co., 1942 Forbes, Pittsburgh, Pa.
 Ammonia Co., 2815 Gray's Ferry rd, Phila., Pa.
 Baker & Adamson Chemical Co., Easton, Pa.
 Billings-Clapp Co., Boston, Mass.
 Bowser, Henry, Chemical Mfg. Co., Gray's Ferry rd, Phila., Pa.
 Butterworth & Judson, Newark, N. J.
 Carey, Philip Mfg. Co., Lockland, O.
 Carolina Chemical Co., Richmond, Va.
 Cochrane Chemical Co., 55 Kilby, Boston, Mass.
 Cooper, Chas. & Co., 194 Worth, New York
 Coweta Fertilizer Co., Newnan, Ga.
 Eureka Fertilizer Co., Perryville, Md.
 General Chemical Co., 25 Broad, N. Y.
 Grasselli Chemical Co., Cleveland, O., & 63 Wall, New York
 Harrison Bros. & Co. (Inc.), Phila., Pa.
 Hegeler Bros., Danville, Ill.
 Hubbard Fertilizer Co., Darby bldg, Baltimore, Md.
 Illinois Zinc Co., Peru, Ill.
 Jarecki Chemical Co., Sandusky, O.
 Kalbfleisch, Franklin H. Co., 31 Burling Slip, New York
 Larkin & Scheffer Chemical Co., St. Louis, Mo.
 Lening, Chas. & Co. (Inc.), 112 S Front, Phila., Pa.
 Mallinckrodt Chemical Works, St. Louis, Mo.
 Matthiessen & Hegeler Zinc Co., La Salle, Ill.
 Merrimac Chemical Co., 75 Broad, Boston, Mass.
 Michigan Carbon Works, Detroit, Mich.
 Mineral Point Zinc Co., 204 Dearborn, Chicago, Ill.
 National Acid Co., New Orleans, La.
 New Jersey Zinc Co., 71 B'way, N. Y.
 Penna. Salt Mfg. Co., 115 Chestnut, Phila., Pa.
 Powers-Weightman-Rosengarten Co., 9th & Parrish, Philadelphia, Pa.
 Royster Guano Co., Norfolk, Va.
 Sholes, C. E. & Co., 164 Front, New York
 Standard Guano & Chemical Mfg. Co., New Orleans, La.
 Thomsen Chemical Co., Race & Winder, Baltimore, Md.
 Virginia-Carolina Chemical Co., Richmond, Va.
 United Zinc Chemical Co., Kansas City, Mo.
 Works: Argentine & Iola, Kan.
 Western Chemical Mfg. Co., Denver, Colo.
 York Chemical Co., York, Pa.

Acid (Tannic)

Baker & Adamson Chemical Co., Easton, Pa.
 Billings Clapp Co., 64 Federal, Boston, Mass.
 Mallinckrodt Chemical Works, St. Louis, Mo.
 Pfizer, Chas. & Co., 145 Front, New York
 Powers-Weightman-Rosengarten Co., 9th & Parrish, Phila., Pa.

Acid Vessels

Bishop Gutta Percha Mfg. Co., 422 E 25th, N. Y.
 Eimer & Amend, 205 3d av, New York
 Fields, Chas J. Sons ("The Grout," for Chemical Engines), 633 Market, Phila., Pa.
 Goodyear Rubber Co., 787 B'way, N. Y.
 Gutta Percha & Rubber Mfg. Co., 126 Duane, N. Y.

Acids (Wood)

Bayless & Berkolew, Binghamton, N. Y.
 Beardsley Bros. & Rhodes, Canton, Pa.
 Brandt & Schlager, Brandt, Pa.
 Corbett, M. J. & Co., Binghamton, N. Y.
 Corbett & Stuart, Binghamton, N. Y.
 Finch-Ross Chemical Co., Binghamton, N. Y.
 Hammond, S. & Co., Binghamton, N. Y.
 Lackawanna Chemical Co., Susquehanna, Pa.
 South Branch Mfg. Co., Corbettsville, N. Y.
 Wright, C. F. & Co., Susquehanna, Pa.

Addressing & Mailing

American Addressing & Mailing Co., 56 Warren, New York
 Boyd's City Despatch, 16 Beekman, New York
 Buckley, Dement & Co., 340 Dearborn, Chicago, Ill.
 Chicago Addressing Co., 351 Dearborn, Chicago, Ill.
 Circular Advertising Co., 411 Sycamore, Cincinnati, O.
 Cleveland Addressing Co., Caxton bldg, Cleveland, O.
 Commercial Addressing & Delivering Co., 162 William, New York
 Crawford Addressing Co., Cincinnati, O.
 Hall, E. J. (Fac-Simile Letters, 10 Cedar, N. Y.
 Howe Addressing Co., 208 S 4th, Phila., Pa.
 Imitation Typewriting & Addressing Co., 108 Randolph, Chicago, Ill.
 Lerner-Bean Co., Buffalo, N. Y.
 Mailing & Advertising Co., 122 Government pl, Cincinnati, O.
 Multi-Mailing Co., 66 Reade, New York
 National Addressing Co., Station B, Kansas City, Mo.
RAPID ADDRESSING MACHINE CO.,
 290 B'way, New York. (See adv. below)
 Rothschild, M. M., 96 5th av, Chicago, Ill.
 Trade Circular Addressing Co., 125 Clark, Chicago, Ill.
 Van Hoesen, H. M. Co., 114 Sherman, Chicago, Ill.

Adjustable Appliance for Carpenters' Brackets

Grieves Bros. Co. ("Grieves"), Amesbury, Mass.

***Adjusters (Automatic Slack)**
WESTINGHOUSE AIR BRAKE CO.,
 The, Pittsburg, Pa.

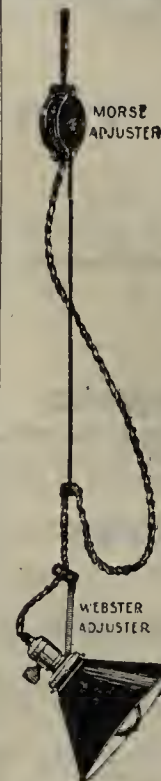
Adjusters (Casement)

Casement Hardware Co. ("Holdfast"), Chicago, Ill.
 New York Blind & Transom Adjuster Co., 71 B'way, New York
 Reading Hardware Co., Reading, Pa.
 Russell Mfg. Co., 47 Chambers, New York
 Sargent & Co., 151 Leonard, New York
 Yale & Towne Mfg. Co., 9 Murray, New York

Adjusters (Cord)

American Hard Rubber Co., 9 Mercer, N. Y.
 American Vulcanized Fibre Co., Wilmington, Del., & Newark, Del.
 Bogert & Hopper, 162 William, New York

Boston Electric Co., 29 Harrison av, Boston, Mass.
 Crescent Co. ("Crescent" Innovate & Universal), Valparaiso, Ind.
 Delaware Hard Fibre Co., Wilmington, Del.
 Dorian Novelty Co., Springfield, Mass.
 Gay, Mfg. Co., 177 W Main, Rochester, N. Y.
 Marshall Electric Mfg. Co., 301 Congress, Boston, Mass.
MORSE, FRANK W. ("Morse"), 116
 Bedford, Boston, Mass. (See adv. below)

**MORSE & WEBSTER ADJUSTERS****MORSE**

With Morse Adjusters one can adjust any candle power lamp with any kind of shade, to any height within a space of five feet. Used with twisted or reinforced cord.

WEBSTER

With it you can adjust your lamp at any angle from perpendicular to horizontal, and reflector round it, so that its light can be reflected in any direction.

Send for Illustrated Price List.

FRANK W. MORSE

116 Bedford Street
 BOSTON, MASS.

NOVELTY TURNING CO., Norway,
 Me. (See adv. index, end of book)
 Perkins Electric Switch Mfg. Co., Bridgeport, Conn.
 Stewart, Frank H. Electric Co., 35 N 7th, Phila., Pa.
 Vought-Berger Co., La Crosse, Wis.
 Western Electric Co., 259 S Clinton, Chicago, Ill., & 57 Bethune, New York

***Adjusters (Lamp)**

MORSE, FRANK W. ("Webster"),
 116 Bedford, Boston, Mass. (See adv. above)

Adjusters (Window Blind)

(See Window Blind Adjusters.)

Adjusters (Window Shade)

(See Window Shade Adjusters.)

LISTS FURNISHED and ENVELOPES, WRAPPERS or CARDS ADDRESSED TO ALL CLASSES OF TRADES.

Addressing and mailing is often allowed to remain a most tedious detail in connection with the working of a business. Say you have a list that has to be mailed once a month or oftener, it is more than likely causing you worry and needless expense to have the addressing and mailing done on time.

THE RAPID ADDRESSING MACHINE CO., 290 BROADWAY, NEW YORK CITY,

Have a plan to relieve you of all this work and save you money. A descriptive Catalogue of F. D. BELKNAP'S NEW ROTARY ADDRESSING MACHINE sent on application.

***Advertising Matter Prepared**

GIBSON, GEO. H., Tribune bldg, New York. (See adv. index, end of book)
Van Holsen, H. M. Co. (Printers, Lithographers, Embossers, High Class Form Letters, etc.), 114 Sherman, Chicago, Ill.
Warling, Vechten (Advertising Writing, Printing, Illustrating & Booklets, Catalogues, etc.) 92 John, New York

Advertising Novelties

Aluminum & White Metal Mfg. Co. (Aluminum, etc.), 336 B'way, New York. Factory: Whitestone, L. I., N. Y.
Aluminum Mfg. Co., Two Rivers, Wis.
Beach, H. D. Co., Coshocton, O.
Bell Novelty Advertising Co., Bellefontaine, O.
Best Mfg. Co., New Haven, Conn.
Bronze & Papier Mache Co. (Asbestos Papier Mache), 431 W B'way, New York
Canton Cutlery Co. (High Grade Photo Pocket Knives), Canton, O.
Carroll, J. B. (Celluloid Pocket Mirrors), 136 La Salle, Chicago, Ill.
Coshocton Novelty Co., Coshocton, O.
ELECTRO CHEMICAL ENGRAVING Co. (Inc.), 450 19th, Brooklyn, N. Y. (See adv. index, end of book)
Illustrated Postal Card & Novelty Co., 118 Chambers, New York
Meek-Beach Co., Coshocton, O.
National Advertising Co. (Yard Sticks & Novelties), Seneca Falls, N. Y.
New York Aluminum Co., 377 B'way, New York
Novelty Advertising Co., Coshocton, O.
Osborne Co. (Calendars & Novelties), Washington & Hubert, New York
Osborne Co. (Calendars & Novelties), West & Hubert, New York
Standard Advertising Co., Coshocton, O.
Tobey, Warren P. (Calendars, Fans, Yard Sticks & Specialties), New Bedford, Mass.
Warling, Vechten (Booklets, Catalogues, etc.), 92 John, New York
Westcott-Jewell Co. (Rulers, Yard Sticks, etc.), Seneca Falls, N. Y.
West Lafayette Mfg. Co. (Wooden), West Lafayette, O.
Whitehead & Hoag Co., 253 B'way, New York
Wolf & Co., Franklin & Vine, Phila., Pa.

Adze Mfrs.

American Axe & Tool Co. (Coopers, Ship, Railroad, etc.), Glassport, Pa., & 253 B'way, Black, H. B. & Co., Chester, Pa. N. Y.
Bradley's, G. W. Sons (Inc.), Westport, Conn.
Collins Co., Collinsville, Conn.
Evansville Tool Works (Carpenters', Railroad, Ship Carpenters', etc.), Evansville, Ind.
Findlay Axe & Tool Co., Findlay, O.
Mack & Co. ("D. R. Barton"), Railroad, Carpenters, etc.), Rochester, N. Y.
Peck Edge Tool Co., Cohoes, N. Y.
Plumb, Fayette R., Penna. R. & Tucker, Philadelphia, Pa.
Standard Axe & Tool Co., 116 Broad, N. Y.
United States Edge Tool Co., Cattaraugus, N. Y.
White, L. & I. J. Co., Buffalo, N. Y.

Aeolipyle for Hot Air Furnaces

Aeolipyle Mfg. Co., 45 E 42d, New York

Aerial Cableways

(See Wire Rope Tramways)

***Aftercoolers**

INGERSOLL-RAND CO., 11 B'way, New York. (See adv. index & branch offices, end of book)

Agalite

Atlas Mineral & Machine Co., Lincoln, N. J.
International Pulp Co., 41 Park row, New York
Williams, C. K. & Co., Easton, Pa.

Agitators

ALLIS-CHALMERS CO. (Mining), Milwaukee, Wis. (See adv. index & branch offices, end of book)
Carroll-Porter Boiler & Tank Co. (Mining), Empire bldg, Pittsburg, Pa.
Crossley Mfg. Co. (Clay), Trenton, N. J.
Day, J. H. & Co. (Liquid), 1144 Harrison av, Cincinnati, O.
Perrin, M. R. & Co. (Lard), Loomis & 46th, U Stock Yard, Chicago, Ill.

Pollock, M. B. Co. (Brewers), Youngstown, O.
Power & Mining Machinery Co., 52 William, New York. Works, Cudahy, Wis.
Riter-Conley Mfg. Co. (Mining), 55 Water, Pittsburg, Pa.
Schulte & Koerting Co., 1251 N 12th, Phila., Pa.
Triumph Ice Machine Co., 615 Baymiller, Cincinnati, O.

Agitators (Oil)

GRAVER, WM. TANK WORKS, East Chicago, Ind. (See adv. index, end of book)
Hammond Iron Works, Warren, Pa.
PETROLEUM IRON WORKS CO., Washington, Pa., & Farmers' Bank bldg, Pittsburg, Pa. (See adv. index, end of book)
Struthers-Wells Co., Warren, Pa.

Agricultural Implement Mfrs.

For Sub-Classification of this Trade

See also Cultivators.
 Cutters, Ensilage.
 Cutters, Feed, etc.
 Diggers, Various Kinds.
 Drills, Various Kinds.
 Engines, Traction.
 Harrows, Various Kinds.
 Harvesters, Various Kinds.
 Hullers, Various Kinds.
 Mills, Various Kinds.
 Mowers & Reapers.
 Planters, Various Kinds.
 Plows, Various Kinds.
 Presses, Hay & Baling.
 Pullers, Stump.
 Pumps, Various Kinds.
 Rakes, Various Kinds.
 Rollers, Land & Field.
 Saw Mills, Portable.
 Seeders & Sowers.
 Self Feeders & Band Cutters for Threshers
 Shellers, Corn.
 Sickle & Mower Knife Grinders.
 Slings, Hay.
 Stackers, Various Kinds.
 Tedders, Hay.
 Threshers.
 Tools, Haying.
 Twine, Binder.
 Weeders, Various Kinds.
 Weighers, Loaders & Baggers, Grain.
 Windmills.

For all other Implements, Machines, Tools, etc., used for agricultural purposes, see Index of Contents.

ALABAMA.

ENSLEY—Empire Plow Co. (Plows, Cultivators, Harrows, etc.)
TUSCUMBIA—Rowland, T. T. & Son (Cultivators)

ARKANSAS.

PARAGOULD—Roy Plow Co. (Plows, etc.)

CALIFORNIA.

BENICIA—Benicia Iron Works (Plows, Harrows, Cultivators, Rakes, Rickers, Loaders & Stackers, Seeders & Sowers, etc.)
FRESNO—Fresno Agricultural Works (Inc.) (Plows, Road Scrapers, etc.)
LOS ANGELES—Killefer-Griffith Mfg. Co. (Cultivators)
MARYSVILLE—Empire Foundry & Harvester Works (Harvesters)
OAKLAND—Brand, R. & Co., 521 2d
SAN FRANCISCO—Jackson, Byron Machine Works, 411 Market
Spalding-Robbins Disc Plow Co. (Plows)
SAN JOSE—Anderson-Barngrover Mfg. Co. (Plows & Pulverizers)
SAN LEANDRO—Best Mfg. Co. (Harvesters, Binders, Traction Engines, etc.)
STOCKTON—Holt Mfg. Co. (Harvesters, Binders, etc.)
Houser & Haines Mfg. Co. (Grain Drills, Combined Harvesters, etc.)
Shaw, H. C. & Co. (Harrows & Gang Plows)
Stockton Mfg. Co. (Bean Threshing Machines)

COLORADO.

DENVER—Case, J. I. Threshing Co. (of Racine, Wis.)
Parlin & Arendorff Co. (of Canton, Ill.)
Plattner Implement Co. (Hay Stackers, Rakes, Harrows)
Racine-Sattley Co. (of Springfield, Ill.)

GREELEY—Brown, Peter & Son (Potato Diggers & Sorters)
PUEBLO—Mead Hay Press Co. (Harrows, Cultivators)

CONNECTICUT.

HIGGANUM—Cutaway Harrow Co. (Harrows)
Scoville, D. & H. (Planters, Hoes, etc.)
NEW HARTFORD—Rogers Rake Co. (Hand Hay Rakes)
SOUTHPORT—Jelliff, C. O. Mfg. Corp. (Harrows)

GEORGIA.

ATHENS—Umbach, F. G. (Harrows, etc.)
ATLANTA—Atlanta Agricultural Works (Plows, Harrows, Cultivators, etc.)
Atlanta Plow Co. (Plows, Cultivators, Harrows, Cottou Planters, etc.), 1200 Marietta
De Loach Mill Mfg. Co. (Hay Presses, Feed Mills)
COLUMBUS—Southern Plow Co. (Plows, Cultivators, Harrows, Cotton Planters, etc.)
DALTON—Farrar Lumber Co. (Pea Hullers, Hay Presses, etc.)
Nancy Hanks Hay Press & Foundry Co. (Hay Presses, Pea Threshers, etc.)
Sanders Mfg. Co. (Pea & Bean Hullers)
HELENA—Sikes Mfg. Co. (Hay Presses)
MACON—Williams Buggy Co. (Hay Presses)
NEWMAN—Cole, R. D. Mfg. Co. (Corn Mills)
ROME—Towers & Sullivan Mfg. Co. (Plows, Harrows, Cultivators)
WINDER—Woodruff Hardware Co. (Hay Presses)

ILLINOIS.

ALBION—Palnter & Frankland (Plows)
ALTON—Hancock Disc Plow Co. (Plows & Harrows)
Hapgood Plow Co. (Corn Planting Drills, Plows, Listers, etc.)
Woodcock, J. C. Feed Mill Co. (Feed Mills)
ARLINGTON HEIGHTS—Greenberg, Edward (Potato Diggers)
Kolling Husker & Shredder Works (Corn Huskers & Shredders)
AURORA—Phillips, T. L. (Feed Mills, etc.)
Western Wheeled Scraper Co. (Plows, Road Machinery, etc.)
BATAVIA—Appleton Mfg. Co. (Feed Mills, Stalk Cutters, Corn Shellers, Feed Cutters, Fanning Mills, etc.)
Batavia Windmill Co. (Feed Mills, Corn Shellers, Feed Cutters)
Challenge Co. (Feed Mills, Corn Shellers, Feed Cutters)
Sperry, D. R. & Co. (Farm Boilers, Feed-Cookers, etc.)
U. S. Wind Engine & Pump Co. (Feed Mills, Corn Shellers)
BELLEVILLE—Gundlach, Philip M. (Grain Drills, etc.)
Harrison Machine Works (Threshers, Straw Stackers)
BLOOMINGTON—Apex Mfg. Co. (Hay Rakes, Manure Spreaders)
BRADLEY—Bradley, David Mfg. Co. (Plows, Harrows, Cultivators, Rakes, Planters)
CANTON—Parlin & Orendorff Co. (Plows, Harrows, Cultivators, Planters, Listers)
CARPENTERSVILLE—Star Mfg. Co. (Plows, Harrows, Feed Cutters)
CARTHAGE—Johnson, J. G. (Corn Huskers)
CHICAGO—Acme Harvesting Machine Co. (Binders, Mowers, Rakes, Stackers), First National Bank bldg
Aermoter Co. (Feed Mills, Fodder Cutters, Corn Shellers)
Bristol & Gale Co. (Harrows, Corn Shellers), 110 Washington bou
Chicago Wheel & Mfg. Co. (Rice Hullers, etc.)
International Harvester Co. of America (Cultivators, Harrows, Mowers & Reapers, Tedders, Binders, Rakes), 7 Monroe
Masters Planter Co. (Hand Transplanters), 174 S Water
Smith Mfg. Co. (Manure Spreaders), 158 E Harrison
Staver Carriage Co. (Feed Mills, etc.), W 76th & Wallace
Whitaker Mfg. Co. (Cultivators, Hay Carriers, etc.), 50 S Canal
WHITMAN & BARNES MFG. CO. (Garden Cultivators, etc.) (See adv. index, end of book)
ECATUR—Chambers, Bering, Quinlan Co. (Hay Loaders, Rakes, Planters, Check Rovers)
Hartley, C. J. Co. (Grain Welghers, etc.)
Tait, F. B. Mfg. Co. (Rakes, Corn Planters, Corn Shellers, Harrows, etc.)

Tenney & Sicking (Inc.) (Plows & Cultivators)
 Union Iron Works (Power Corn Shellers)
 Williams Mfg. Co. (Planters, Grain Weighers, etc.)
 DE KALB—Haish Wire & Implement Co. (Harrows, Corn Shellers)
 DIXON—Grand Detour Plow Co. (Plows, Harrows, Cultivators, Planters, Listers)
 DWIGHT—Spencer, J. A. (Hay Presses)
 EDWARDSVILLE—Springer Bros. Mfg. Co. (Potato Planters)
 ELGIN—Elgin Wind Power & Pump Co. (Feed Mills)
 FREEPORT—Schofield & Co. (Potato Planters & Diggers)
 Stover Mfg. Co. (Feed Mills, Corn Shellers)
 GALESBURG—Colton, G. D. & Co. (Feed Mills, Hay Presses)
 Galesburg Coulter-Disc Co. (Disc Harrows, Disc Harrow Blades, etc.)
 Spartan Mfg. Co. (Feed Mills)
 GALVA—Hayes Pump & Planter Co. (Harrows, Cultivators, Planters, Listers)
 Mulford Heater Co. (Corn Planters)
 Wistrand Mfg. Co. ("Blue Star" Corn Planters)
 GRAFTON—Rippley Hardware Co. (Feed Mills & Cookers)
 HARVARD—Hunt, Helm, Ferris & Co. (Hay Carriers, etc.)
 HAVANA—Crescent Forge & Shovel Co. (Garden Plows & Cultivators)
 JOLIET—Buckeye Engine & Foundry Co. (Feed Mills)
 Humphrey & Sons (Bone & Clover Cutters, Hand Seed Sowers)
 Joliet Mfg. Co. (Corn Shellers)
 Taylor Husker & Shredder Co. (Corn Huskers & Corn Picker & Husker)
 KANKAKEE—Kemp's Mfg. Co. (Hay Presses)
 KEWANEE—Peters Pump Co. (Planters & Pumps)
 LE ROY—Morris, A. H. (Disk Corn Planter Markers)
 Myers, C. H. & Co. (Disk Corn Planter Markers)
 MARSEILLES—Marseilles Harrow Mfg. Co. (Harrows)
 Marseilles Mfg. Co. (Feed Mills, Hay Loaders, Corn Shellers, Fanning Mills, Feed Cutters)
 MASCOUHA—Trappe, G. H. (Fanning Mills)
 MENDOTA—Tower, J. D. & Sons Co. (Cultivators, Pulverizers, Clod Crushers, etc.)
 MOLINE—Deere & Co. (Plows, Harrows, Cultivators, Listers)
 Deere & Mansur Co. (Planters, Cultivators, Hay Loaders, Rakes, Listers, Corn Shellers, Seeders)
 Moline Plow Co. (Plows, Harrows, Cultivators, Planters, Listers)
 Moline Pump Co. (Corn Planters & Windmills)
 Sechler, D. M. Carriage Co. (Cultivators, Harrows, Corn Planters, etc.)
 MONMOUTH—Milne Mfg. Co. (Stump Pullers)
 Monmouth Plow Co. (Plows)
 Pattee Plow Co. (Cultivators, Plows, etc.)
 ORION—Orion Hay Press Co. (Hay Presses)
 OTTAWA—Jordan, R. C. (Hay Presses)
 King & Hamilton Co. (Cultivators, Corn Shellers)
 Porter, J. E. Co. (Planters, Rakes, Hay Carriers, Hay Presses, Stackers, Planters, etc.)
 PAXTON—Hopkins, W. T. (Stalk Rakes)
 PEORIA—Acme Harvesting Machine Co. (Harvesters, Binders, etc.)
 Aremac Mfg. Co. (End Gate Seeders)
 Avery Mfg. Co. (Cultivators, Thrashers, Planters)
 Ben Steele Weigher Co. (Grain Weighers, etc.)
 Colean Mfg. Co. (Thrashers)
 Engel, J. A. & Co. (End Gate Seeders)
 Hart Grain Weigher Co. (Grain Weighers)
 Herschell, R. Mfg. Co. (Sickles, etc.)
 Illinois Implement Co. (Combination Harrow & Harrow Cart)
 Kingman Plow Co. (Plows, Harrows, Cultivators, Planters, Listers)
 Peoria Drill & Seeder Co. (Grain Drills, Seeders, etc.)
 PERU—Peru Plow & Wheel Co. (Plows, Harrows, Cultivators, Planters, Listers)
 PINCKEYVILLE—Eaton Plow Works (V. A. Stookey & Son, Prop's) (Plows, Harrows)
 PLANO—Independent Harvester Co. (Harvesters, Corn & Grain)
 Sears, Albert H. & Co. (Harrows, Cultivators, etc.)
 QUINCY—Collins Plow Co. (Plows, Harrows, Cultivators, Corn Drills, Hay Presses, etc.)

Electric Wheel Co. (Feed Mills & Metal Wheels)
 Ertel, Geo. Co. (Hay Presses, etc.)
 Quincy Corn Planter Co. (Corn Planters)
 ROCKFORD—Emerson Mfg. Co. (Mowers, Binders, Plows, Harvesters, Cultivators, Rakes, Planters, Listers)
 Rockford Implement Co. (Cultivators & Harrows)
 Rockford Mfg. Co. (Plows, Harrows, Cultivators)
 Rockford Well Drill Co. (Cultivators, Seeders)
 ROCK ISLAND—Rock Island Plow Co. (Plows, Harrows, Cultivators, Hay Loaders, Planters, Listers, Seeders & Sowers)
 ST. CHARLES—Goodhue Rotary Grinder Co. (Feed Mills)
 SANDWICH—Sandwich Mfg. Co. (Feed Mills, Hay Loaders, Corn Shellers, Hay Presses)
 SHELBYVILLE—Sturgis, W. B. & Son (Plows)
 SPARTA—Sparta Plow Works (Plows, Harrows, Cultivators)
 SPRINGFIELD—Heinecke & Co. (Combination Wind & Raddle Stackers)
 Racine-Sattley Co. (Plows, Cultivators, Drills, Harrows, etc.)
 STERLING—Harrison Mfg. Co. (Hand Corn Planters)
 Keystone Co. (Hay Loaders, Rakes, Planters, Corn Shellers, Seeders & Hay Presses)
 Sterling Mfg. Co. (Harrows, Feed Mills, Hay Loaders, Rakes, Tedders, Planters, Seeders & Sowers)
 SYCAMORE—Patten, Frank C. Co.
 WALNUT GROVE—Norcross, C. S. & Sons (Hand Garden Cultivators)
 WATERLOO—Olendorph, Jacob (Plows, etc.)

INDIANA.

ANDERSON—Fisher, Thos. C. (Grain Cradles)
 CAMBRIDGE CITY—National Drill Co. (Cultivators, Grain Drills, etc.)
 COLUMBUS—Janney Mfg. Co. (Feed Mills, Corn Planters, etc.)
 Reeves & Co. (Thrashers, Grain Weighers, Clover Hullers)
 EAST CHICAGO—Famous Mfg. Co. (Sweep Rakes, Stackers, Hay Presses, etc.)
 EVANSVILLE—Blount, Henry F. (Plows, etc.)
 Hartig-Becker Plow Co. (Plows, Cultivators)
 Heilman Machine Works (Thrashers & Engines)
 Vulcan Plow Co. (Plows, etc.)
 FERDINAND—Kitten, F. Foundry & Machine Works (Thrashers)
 FORT WAYNE—Indiana Road Machine Co. (Plows & Road Making Machinery)
 GOSHEN—Goshen Mfg. Co. (Hay Slings)
 HAMMOND—Champion Potato Machinery Co. (Potato Planters, etc.)
 INDIANAPOLIS—American Buncher Mfg. Co. (Clover Machines)
 Atkins, E. C. & Co. (Corn, Beet & Cane Knives)
 Hadley Derrick Co. (Wheeled Farm Derricks)
 Nordyke & Marmon Co. (Feed, Corn & Cob Mills, Fanning Mills, Corn Shellers, etc.)
 North Indianapolis Cradle Works, 29th & Elmira
 Poindexter Mfg. Co. (Corn Splitters)
 Prairie Mfg. Co. (Sowers, Cultivators & Garden Drills)
 Russell Wind Stacker Co. (Wind Stackers), 1001 Shelby
 Sattley Stacker Co. (Stackers, etc.)
 KENDALLVILLE—Flint & Walling Mfg. Co. (Feed Mills, Wind Mills, etc.)
 LA PORTE—Rumley, M. Co. (Thrashers, Stackers, Traction Engines, Hay Presses, Clover Hullers)
 LIBERTY—Rude Bros. Mfg. Co. (Cultivators, Grain & Corn Drills, Rakes, etc.)
 LOGANSPOUT—King Drill Co. (Grain Drills)
 MISHAWAKA—Mishawaka Plow Co. (Plows, etc.)
 Perkins Wind Mill Co. (Feed Mills, Cutters, Corn Shellers)
 MOUNT VERNON—Keck-Gonnermann Co. (Thrashers, etc.)
 NEW CASTLE—Safety Shredder Co. (Corn Husker & Fodder Shredder Combined)
 NORTH MANCHESTER—Little Giant Seeder Co. (Hand Seed Sowers)
 PERU—Spring Grain Drill Mfg. Co. (Grain Drills, etc.)
 RICHMOND—American Seeding Machine Co. (See Springfield, O.)
 Eureka Fence Mfg. Co. (Hand Corn Planters)
 Gaar, Scott & Co. (Thrashers, Stackers, Grain Weighers, Clover Hullers, Traction Engines)
 Hoosier Drill Co. (Grain Drills, etc.)

Richmond City Mill Works (Feed Mills)
 Robinson & Co. (Thrashers, Stackers, Grain Weighers)
 Wayne Works (Grain Drills, Planters, Seeders & Sowers)
 RISING SUN—Clore's, Wm. Sons (Plows, Cultivators)
 SOUTH BEND—Birdsell Mfg. Co. (Straw Stackers, Clover Hullers, etc.)
 Bowsher, N. P. Co. (Feed Mills, Barley Crushers)
 Oliver Chilled Plow Works (Plows)
 South Bend Chilled Plow Co. (Plows, Harrows, Cultivators)
 URBANA—Cyclone Seeder Co. ("Cyclone," "Chicago" & "Champion, Jr.," Seed Sowers)
 VERNON—Reed & Rogers Mfg. Co. (Harrows & Rakes)
 VINCENNES—Hartman Mfg. Co. (Cultivators, etc.)

IOWA.

CENTERVILLE—Hercules Mfg. Co. (Feed Mills & Stump Pullers)
 CHARLES CITY—Daley, M. H. (Disc Harrows)
 COUNCIL BLUFFS—Children's, E. Sons Mfg. Co.
 Hay Tool Mfg. Co. (Hay Stackers, etc.)
 CRESCO—Caward, R. S. (Plows & Grubbing Machinery)
 Swenson Grubber Co. (Stump Pullers)
 DES MOINES—Gee Whizz Mfg. Co. (Fodder Purinton Mfg. Co. (Feed Cookers) Forks)
 Spieth, Gottlieb F. (Plows)
 Wood Bros. Steel Self Feeder Co. (Cultivators, etc.)
 DUBUQUE—Cooper, A. A. Wagon & Buggy Co. (Plows, Cultivators, Feed Mills, Planters)
 FAIRFIELD—Louden Machinery Co. (Hay Forks & Carriers, etc.)
 FORT MADISON—Iowa Farming Tool Co. (Haying Tools)
 Morrison Mfg. Co. (Plows, Harrows, Cultivators, Planters)
 IOWA CITY—Kelly, O. S. Western Mfg. Co. (Thrashers, Feed Mills, etc.)
 LONE TREE—Monarch Grubber Co. (Feed Mills, etc.)
 NASHUA—Bloom, N. H. (Harrows)
 NEWTON—Parsons Band Cutter & Self Feeder Co. (Hay Presses, Corn Huskers, etc.)
 OTTUMWA—Dain Mfg. Co. (Feed Mills, Hay Loaders, Haying Tools, Rake, Hay Presses)
 Western Hay Tool Co. (Hay Loaders, Rakes & Stackers)
 PELLA—Pella Stacker Co. (Straw Stackers)
 PRAIRIE CITY—Dowden Mfg. Co. (Ltd.) (Harrows & Potato Harvesters, etc.)
 SHENANDOAH—Swanson, T. Mfg. Co. (Cultivators, Haying Tools, etc.)
 SPENCER—Maurer, F. X. Co. (Hay Presses)
 WATERLOO—Bovee Grinder & Furnace Works (Feed Mills & Cookers)
 Cascaden Mfg. Co. (Feed Mills & Cookers)
 Cascaden-Vaughn Co. (Thrashers, Hay Presses, Rakes & Stackers)
 Corn Belt Mfg. Co. (Manure Spreaders, Harrows)
 Galloway, Wm. Co. (Harrows)
 Kelly & Tanneyhill Co. (Feed Mills & Well Drilling Machinery)
 Kemp, J. S. Co. (Manure Spreaders)
 Litchfield Mfg. Co. (Manure Spreaders)
 Swift Mfg. Co. (Feed Mills & Cookers)
 Waterloo Furnace & Feed Mill Co. (Feed Mills)
 Waterloo Gasoline Engine Co. (Feed Mills)
 WAUKON—Johnson, John S. (Plows, etc.)
 Simonsen & Peterson (Plows)
 WEBSTER CITY—Closz & Howard Mfg. Co. (Grain Separators, etc.)

KANSAS.

BLUE RAPIDS—Farmers' Co-Operative Mfg. Co.
 COFFEYVILLE—Coffeyville Implement & Mfg. Co. (Plows, etc.)
 EDWARDSVILLE—Pearson Mfg. Co. (Potato Separators, etc.)
 KANSAS CITY—Strait, H. N. Mfg. Co. (Hay Presses, Scales, etc.)
 Western Steel & Wire Co. (Hay Presses)
 LINCOLN—New Process Mfg. Co. (Corn Cutters)
 MANHATTAN—Blue Valley Mfg. Co. (Feed Mills)
 NEWTON—Miller Grain Drill Mfg. Co. (Grain Drills, etc.)
 Prairie Queen Mfg. Co. (Thrashers)
 SALINA—Wyatt, F. Mfg. Co. (Hay Stackers)

STAFFORD—Milton Garvin Steam Plow Co. (Plows, etc.)
 TOPEKA—Auto-Fedan Hay Press Co. (Hay Presses)
 Currie Windmill Co. (Feed Mills)
 Topeka Foundry (Sub-Surface Soil Packers)
 WICHITA—Langdon, John F. (Threshing Machine Feeders)

KENTUCKY.

CARLISLE—King, R. C. Hardware Co. (Blue Grass Seed Strippers)
 LOUISVILLE—American Seeding Machine Co. (See Springfield, O.)
 Avery, B. F. & Sons (Inc.) (Plows, Harrows, Cultivators, Rakes, Planters, etc.)
 Brinly-Hardy Co. (Inc.) (Plows)
 Kentucky Drill Co. (Grain Drills, Corn Shellers, etc.)
 MAYSVILLE—Hall, Jas. H. Plow Co. (Plows, Cultivators)
 Maysville Foundry, Machine & Marine Co. (Plows)

LOUISIANA.

CROWLEY—Black Bros. Implement Co.

MAINE.

BRUNSWICK—Goddard, Silas & Son (Plows)
 KENNEBUNK—Varney, Geo.
 NORTH BERWICK—Hussey Plow Co. (Cultivators, Plows, etc.)
 Varney, J. B. Plow Co. (Plows)
 PORTLAND—Frye, J. J. (Plows, Cultivators, Harrows)
 SKOWHEGAN—Nolin Mfg. Co. (Scythes, etc.)

MARYLAND.

BALTIMORE—Rawlings Implement Co. (Plows & Cultivators)

MASSACHUSETTS.

BARRE—Allen, Chas. G. Co.
 BOSTON—Ames Plow Co. (Plows, Harrows, Cultivators, Rakes, Tedders, Planters, Fanning Mills, Feed Cutters), Quincy Hall
 CHICOPPEE FALLS—Belcher & Taylor Agricultural Tool Co. (Plows, Harrows, Fanning Mills, Cultivators, Planters, Tedders, Feed Cutters, Potato Diggers, etc.)
 MILFORD—Mann, F. W. Co. (Corn Shellers)
 WORCESTER—Richardson Mfg. Co. (Mowers, Rakes, Tedders)

MICHIGAN.

ADRIAN—Babcock Planter Co. (Hand Corn Planters)
 ALBION—Cook Mfg. Co. (Feed Mills)
 Gale Mfg. Co. (Plows, Harrows, Cultivators, Rakes, Planters, Listers, Seeders & Sowers)
 ALMONT—Lee, Rob't E. (Plows, Feed Cutters)
 ANN ARBOR—Ann Arbor Machine Co. (Feed Cutters, Hay Presses, etc.)
 BATTLE CREEK—Advance Thresher Co. (Grain Weighers, Threshers, Stackers)
 Nichols & Shepard Co. (Threshers, Stackers, Grain Weighers)
 BAY CITY—Bay City Plow Works (Plows)
 BLAINE—Fair & Sons (Plows)
 BUCHANAN—Black, Geo. H. (Garden Plows)
 BURR OAK—Sheffield Mfg. Co. (Corn & Potato Planters)
 CASS CITY—Cass City Foundry & Machine Co. (Plows)
 DETROIT—American Harrow Co. (Plows, Cultivators, Planters), 1482 Hastings
 Campbell-Manson Co. (Fanning Mills), 103 Wesson av; also Chatnam, Ontario
 Detroit Hoe Co., 132 Larued, E
 Durling, A. N. (Fanning Mills), 160 Abbott
 DOWAGIAC—Dowagiac Mfg. Co. (Grain Drills, Seeders & Sowers)
 GALIEN—Montross, Richard W. (Barley Forks)
 GRAND LEDGE—Streeter, Hiram R. (Corn Shellers, etc.)
 GREENVILLE—Greenville Implement Co. (Cultivators, Plows, Feed Cutters)
 Moore Plow & Implement Co. (Plows, Cultivators, Seeders & Sowers)
 HOMER—Seeder Mfg. Co. (Seeders & Sowers)
 ITHACA—Wells, H. B. & Son (Plows)
 JACKSON—Aspinwall Mfg. Co. (Potato Planters & Diggers, etc.)
 Hutchinson, John Mfg. Co. (Corn Shellers, Feed Mills)
 Withington & Cooley Mfg. Co. (Hoes, Forks, Rakes, etc.)

KALAMAZOO—Clark Engine & Boiler Co. (Feed Cookers, etc.)
 Hicks, O. & W. D. & Co. (Fanning Mills, etc.)

Johnson & Linihan (Fanning Mills, etc.)
 Reed Mfg. Co. (Cultivators, Seeders, etc.)
 Smith & Pomeroy Windmill Co. (Feed Mills & Windmills)

LANSING—Bement's, E. Sons (Plows, Harrows, Cultivators, Planters)
 Western Wagon & Supply Co. (Beet Blockers, Cultivators & Drills)

LAPEER—Bostick, A. & Son (Plows)

MONROE—Wilder-Strong Implement Co. (Harvesters, Plows, Feed Cutters)

MOUNT CLEMENS—Donaldson Bros. (Plows, Harrows, Cultivators, Planters, Feed Cutters)

PLYMOUTH—Beunett, L. H. (Fanning Mills)

PONTIAC—Bacon Mfg. Co. (Seeder, Bean Pickers & Garden Cultivators)

Howland Mfg. Co. (Plows, Harrows, Cultivators, Feed Cutters)

PORT HURON—Port Huron Engine & Thresher Co. (Plows, Threshers, Stackers, Feed Mills, Corn Shellers, Weighers)

ROCHESTER—Miller Bros. (Bean Pickers)

SAGINAW—American Beet Harvester Co. (Beet Topper & Lifter)

Ferrell, A. T. & Co. (Fanning Mills, etc.)

Mitts & Merrill (Plows)

TECUMSEH—Heeson Bros. & Co. (Feed Cookers)

TRAVERSE CITY—Potato Implement Co. (Acme Corn & Potato Planters)

YPSILANTI—Thompson, Oliver E. & Sons

MINNESOTA.

ALBERT LEA—Edwards, C. D. (Stump Pullers)

Hauge, G. A. (Plows & Wagons)

AUSTIN—Johnson & Smith Co. (Plows, Harrows, etc.)

CROOKSTON—Maple Bay Wind Stacker Co. (Straw Stackers)

FERGUS FALLS—Grolimund, M. (Fanning Mills)

GLADSTONE—Piorier Mfg. Co. (Grain Drills)

MINNEAPOLIS—Cleland, A. V. (Fanning Mills)

Howell, R. R. & Co. (Harrows, Cultivators, Grain Drills & Feed Mills)

Kinnard-Haines Co. (Hay Presses, etc.)

Minneapolis Plow Works (Plows)

Minneapolis Threshing Machine Co. (Threshers, Stackers, Corn Shellers, Baggers, etc.)

Monitor Drill Co. (Grain Drills, Cultivators, Seeders & Sowers)

Owens, J. L. Co. (Fanning Mills, Grain Cleaning Machinery)

Twln City Separator Co. (Fanning Mills)

OWATONNA—Owatonna Fanning Mill Co. (Fanning Mills)

Owatonna Mfg. Co. (Grain Drills, Seeders & Sowers, Churns, etc.)

Sperry Mfg. Co. (Fanning Mills)

ST. LOUIS PARK—Martin, M. R. (Feeding Mills)

Shock & Hay Loader Co. (Hay Shock Loaders)

ST. PAUL—Fosston Mfg. Co. (Wind Stackers)

Law Mfg. Co. (Hay Stackers, Forks, etc.)

SAUK CENTER—Keller Mfg. Co. (Harrows, Cultivators, Threshers, Fanning Mills, Sleds, etc.)

STILLWATER—Northwest Thresher Co. (Engines, Threshers, Stackers, Weighers, etc.)

WINONA—New Winona Mfg. Co. (Feed Mills, Corn Shellers, Hay Presses, etc.)

MISSISSIPPI

COLUMBUS—New South Plow Co. (Plows, Harrows, Cotton Planters, etc.)

JACKSON—McDonnell Machine & Foundry Co. (Plows, etc.)

MERIDIAN—Hyde, Chas. J. (Hay Presses, etc.)

MISSOURI.

BROWNING—Jenkins Hay Rake & Stacker Co. (Feed Mills, Haying Tools, etc.)

CAIRO—Boney, A. T. & Co. (Hay Stackers)

CARROLLTON—Farm Tool Mfg. Co. (Hay Stackers, Loaders, Rakes, etc.)

HUNTSVILLE—Fleming & Sons Mfg. Co. (Haying Tools, Rakes, Stackers, etc.)

JONESBURG—Godfrey, H. M. (Walking Plows)

KANSAS CITY—Admiral Hay Press Co. (Hay Presses)

Eagle Mfg. Co. (Plows, Harrows, Cultivators, Listers)

Eclipse Hay Press Co. (Hay Presses)

Harblson & Modica Mfg. Co. (Corn Shellers, Cultivators, etc.)

Kansas City Hay Press Co. (Feed Mills, Hay Presses, Haying Tools, etc.)
 Lowell Steam Plow Co. (Gang Plows)
 Scott Hay Press Co. (Hay Presses)
 Smith & Sons Mfg. Co. (Plows, Rakes, Hay Presses)

Western Implement Mfg. Co. (Cultivators, Grain Drills)

LINNEUS—Superior Hay Stacker Mfg. Co. (Hay Stackers)

MACON—McCall Mfg. Co. (Hay Rakes & Stackers)

NEOSHO—Neosho Chilled Plow Works (Plows)

OLNEY—Stroker, Fitz C. (Plows)

ST. JOSEPH—Cartmell Machine Co.

St. Joseph Plow Co. (Plows, Cultivators, Harrows, etc.)

ST. LOUIS—Kingsland Mfg. Co. (Threshers, Corn Shellers, etc.)

Seymour Mfg. Co. (Grain Cradles)

Weber Implement Co. (Mowers)

Whitman Agricultural Co. (Harrows, Grain Drills, Feed Mills, Corn Shellers, Seeders & Sowers, Feed Cutters, Hay Presses)

SAVANNAH—Savannah Implement Co. (Harrows)

SEDALIA—Barley, Thos K. (Harrows, Haying Tools, etc.)

SWEET SPRINGS—Fischer, Conrad (Harrows)

TARKIO—Midland Mfg. Co. (Plows, etc.)

WASHINGTON—Buhr, H. J. & Co. (Plows)

NEBRASKA.

BEATRICE—Dempster Mill Mfg. Co. (Cultivators, Grain Drills, etc.)

DAVID CITY—Barker Mfg. Co. (Garden Weeders)

NEBRASKA CITY—King Drill Mfg. Co. (Grain Drills)

ROGERS—Sumption, W.

NEW HAMPSHIRE.

ALSTEAD—Lufkin, C. M. (Plows)

ANTRIM—Goodell Co. (Hand Seed Sowers, Weed Diggers)

HINSDALE—Granite State Mowing Machine Co. (Mowers)

NEW JERSEY.

BOONTON—Trench, Stewart & Co.

GRENLOCH—Bateman Mfg. Co. (Plows, Harrows, Cultivators, Planters, etc.)

HACKETTSTOWN—Bowers, R. Q. & Son (Plows)

HIGHTSTOWN—Peppler, Thos. (Plows, Corn Shellers, etc.)

JERSEY CITY—Bell Specialty Co. (Combined Hoe, Rake & Cultivator), 20 Morris

MILLINGTON—Nash, Duane H. (Pulverizers, Harrows, Clod Crushers, Planters, etc.)

Nishwitz Mfg. Co. (Harrows, etc.)

NEWTON—Farrell, John & Son (Hay Forks & Carriers)

PHILLIPSBURG—Driukhouse, F. F. (Feed & Fodder Cutters)

Phillipsburg Mfg. Co. (Feed Mills, etc.)

RIVERTON—McWhorter Mfg. Co. (Seed Drills, Bean, Peanut & Potato Planters)

TRENTON—Butterworth, Wm. H. & Bro. (Threshers, etc.)

NEW YORK.

ALBANY—Dedericks, P. K. Sons (Hay Presses)

ALBION—Budington, J. M. (Cultivators)

AUBURN—Bowen & Quick (Threshers, etc.)

International Harvester Co. of America (Cultivators, Harrows, Mowers & Reapers, Rakes, Tedders, Binders, etc.), Osborne Plant (See Chicago, Ill.)

AVON—Champion Drill Co. (Cultivators, Grain Drills, etc.)

BATAVIA—Bldwell, C. H. Thresher Co. (Inc.) (Bean Threshers, etc.)

Johnston Harvester Co. (Binders, Cultivators, Harrows, Mowers, Reapers, Rakes, Tedders, Seeders & Sowers)

Wiard Plow Co. (Plows, Harrows, Rakes, Planters, etc.)

BUFFALO—Buffalo-Pitts Co. (Harrows, Cultivators, Rakes, Threshers, Stackers, etc.)

CALEDONIA—Caledonia Bean Harvester Works (Cultivators, Planters, etc.)

CAMBRIDGE—Lovejoy, H. H. & Son (Plows, Harrows, Cultivators, Planters, etc.)

CANANDAIGUA—Davidson, A. Foundry Co. (Plows, etc.)

CANASTOTA—Patten & Stafford Co. (Harrows, Rakes, etc.)

CASTILE—Castile Chilled Plow Co. (Plows, Harrows & Cultivators)

Shumacher Bros. & Nixon

CATO—Dutton, E. Q. & Co. (Plows, Feed Mills)
 CENTRAL BRIDGE—Campbell, S. K. (Threshers)
 CHAMPLAIN—Champlain Agricultural Works (Plows, Cultivators, Harrows, etc.)
 COBLESKILL—Harder Mfg. Co. (Threshers, Fanning Mills, Clover Hullers)
 COHOES—Excelsior Machine Co. (Potato Diggers, etc.)
 CONEWANGO—Spear, W. D. (Grain Cradles)
 COPAKE IRON WORKS—Columbia Plow Works (Plows, etc.)
 CORTLAND—Cortland Implement Co. (Manure Spreaders)
 DANVILLE—Sweet, George Mfg. Co. (Mowers & Reapers)
 DESPATCH—Ontario Drill Co. (Grain Drills)
 EAST AURORA—Peek, S. H. (Plows)
 ELMIRA—Clipper Chilled Plow Co. (Plows, Cultivators, Harrows, Potato Diggers, etc.)
 FULTON—Emery, G. J. Co. (Feed Cutters)
 FULTONVILLE—Fultonville Mfg. Co. (Hay Carriers)
 GENEVA—Mead Drill Mfg. Co. (Grain Drills, Seeders)
 GOWANDA—Gowanda Agricultural Works (Plows, Cultivators, etc.)
 GREENE—Lyon Iron Works (Feed Cutters)
 GREENWICH—Eddy, W. Plow Co. (Threshers, Plows, etc.)
 HAMMOND—Evans Mfg. Co. (Harrows & Plows)
 HOLLAND—Tanner, D. F. (Feed Cutters)
 HONEOYE FALLS—Yorks, W. R. (Cultivators, etc.)
 HOOSICK FALLS—Wood, Walter A. Mowing & Reaping Machine Co. (Mowers, Reapers, Binders, Rakes, Tedders, etc.)
 ITHACA—Williams Bros. (Rakes, Well Machinery, etc.)
 JAMESTOWN—Blackstone Mfg. Co. (Corn Planters, etc.)
 KINGSTON—Hendricks, D. B. & Co. (Hay Presses)
 LEONARDSVILLE—Babcock Mfg. Co. (Harrows, Cultivators, etc.)
 LEROY—Leroy Plow Co. (Plows, etc.)
 LIMA—Papee Machine Co. (Feed Cutters)
 LYONS—Aul, Henry & Son (Fanning Mills)
 Lyons Fanning Mill Co. (Fanning Mills)
 Nagley Mfg. Co. (Tobacco Transplanters, Presses, etc.)
 MACEDON—Bickford & Huffman Co. (Grain Drills)
 MERIDIAN—Everts & Co. (Plows)
 MOUNT MORRIS—Genesee Valley Mfg. Co. (Harrows, Grain Drills, Corn Shellers, Fanning Mills)
 MUNNSVILLE—Munnsville Plow Co. (Plows)
 NEWARK VALLEY—Kemp, J. S. Mfg. Co. (Manure Spreaders)
 OLEAN—Chamberlin Mfg. Co. (Stump Pullers)
 OWEGO—Champion Wagon Co. (Grain Drills, etc.)
 PHELPS—Crown Mfg. Co. (Grain Drills, etc.)
 King Chili Plow Co. (Plow Mfrs.)
 POUGHKEEPSIE—Adrian, Platt & Co. (Harrows, Mowers, Reapers, Binders, Rakes, etc.)
 Chapinville Wheel Co. (Harrows, Rakes, Seeders & Sowers)
 RIVERHEAD—Hudson, S. T. (Harrows)
 ROCHESTER—Ricker Mfg. Co. (Hay, Feed & Litter Carriers)
 SCHENECTADY—Westinghouse Co. (Threshers, Stackers, Weighers)
 SENECA FALLS—Gould Mfg. Co. (Corn Shellers, etc.)
 Rumsey & Co. (Corn Shellers, etc.)
 SHORTSVILLE—Empire Drill Co. (Grain Drills)
 Star Seeder Co.
 SYRACUSE—Engelburg Huller Co. (Rice Graders, Threshers, Separators, Hullers, Bean Hullers, etc.)
 Kemp & Burpee Mfg. Co. (Manure Spreaders)
 TROY—Grant-Ferris Co. (Threshers, Grain Drills, Seeders & Fanning Mills)
 TRUMANSBURG—Almy, Sam'l & Son (Rollers, Plows, etc.)
 UTICA—Childs, Chas. H. & Co. (Cultivators, etc.)
 Davidson Harrow Co. (Harrows)
 Eureka Mower Co. (Cultivators, Mowers, Planters, etc.)
 Munson Bros. Co. (Feed Mills)
 Standard Harrow Co. (Harrows, Cultivators, Corn Shellers, etc.)
 WARSAW—WARSAW ELEVATOR CO. (Bean, Pea & Corn Planters, etc.) (See adv. index, end of book)
 Warsaw-Wilkinson Co. (Ensilage, Feed & Fodder Cutters)
 WILSON—Barnum's Agricultural Works
 YOUNGSTOWN—Ripson, Wm. & Son (Plows, Harrows, Cultivators)

NORTH CAROLINA.

ASHEVILLE—Drummond Plow Co. (Plows)
 CHARLOTTE—Cole Mfg. Co. (Planters)
 GOLDSBORO—Wayne Agricultural Wks (Plows, etc.)
 GREENSBORO—Glasscock, G. T. & Sons (Feed Cutters)
 LEXINGTON—Rothrock Weaver Co. (Plows)
 Thompson, C. M. (Plows, Corn Shellers, etc.)

NORTH DAKOTA.

GRAND FORKS—North Dakota Mfg. Co. (Wind Stackers, etc.)

OHIO.

AKRON—AKRON CULTIVATOR CO. (Cultivators, Plows, Harvesters, Bean Corn, etc.) (See adv. index, end of book)
 International Harvester Co., Main Office, Chicago, Ill.
 WHITMAN & BARNES MFG. CO. (Garden Cultivators, etc.) (See adv. index, end of book)
 ASHLAND—Myers, F. E. & Bro. (Haying Tools, Horse Powers, Hay Carriers, etc.)
 AVERY—Hoover-Prout Co. (Potato Diggers & Sorters)
 BARBERTON—Hist Mfg. Co. (Potato Diggers)
 BELLEVUE—Ohio Cultivator Co. (Cultivators, Plows, Harrows, Planters, Listers, etc.)
 BERE—Dunham, J. W. & Son (Harrows, Corn Shellers, etc.)
 BRYAN—Bryan Plow Co. (Plows, Harrows, etc.)
 BUCYRUS—Shunk Plow Co. (Plows, Cultivators, etc.)
 CANAL FULTON—Fulton Machine Co. (Roller & Pulverizer combined, etc.)
 CANTON—Aultman Engine & Thresher Co. (Threshers)
 Bucher & Gibbs Plow Co. (Plows, Harrows, Cultivators)
 Canton Foundry & Machine Co. (Hay Tools)
 Dick, Jos. Agricultural Works (Fodder Cutters, etc.)
 Kohler, F. E. & Co. (Hand Corn Planters)
 Ney Mfg. Co. (Hay Carriers, etc.)
 Ney, V. L. Co. (Hay Carriers, etc.)
 CHILLICOTHE—Woodcock Feed Mill Co. (Feed Mills, etc.)
 CINCINNATI—Miller, L. J. (Corn & Cob Mills, etc.), 1233 Harrison av
 Straub Machinery Co. (Feed Mills, etc.), 1940 W 6th
 CLEVELAND—American Fork & Hoe Co. (Weeders, Grain Cradles, Forks, Hoes, etc.)
 BARTLETT, C. O. & SNOW CO. (Feed Mills, Corn Shellers, etc.) (See adv. index, end of book)
 Empire Plow Co. (Plows, Harrows, Cultivators, etc.)
 COLUMBIANA—Enterprise Mfg. Co. (Feed Mills, etc.)
 COLUMBUS—Kilbourne & Jacobs Mfg. Co. (Scrapers), hd of Lincoln
 CRESTLINE—Burch Plow Works Co. (Plows, etc.)
 DAYTON—Ohio Rake Co. (Harrows, Hay Loaders, Planters, Rakes, Tedders, Corn Shell-Parrott Mfg. Co. (Plows)
 DEFANCE—Clipper Plow Co. (Plows, Cultivators, Grain Drills, Planters)
 DOYLESTOWN—Sieberling & Miller Co. (Mowers, Reapers, Binders, Harvesters, etc.)
 FREMONT—Lehr Agricultural Co. (Cultivators, Harrows, etc.)
 GALENA—Hughes & Smythe (Revolving Rakes, Corn Planters, etc.)
 GERMANTOWN—Emrick, D. P. (Plows, Harrows & Tobacco Presses)
 HAMILTON—Deuscher, H. P. Co. (Harrows, Pulverizers, Cultivators, Rakes, Planters)
 Long & Allstatter Co. (Cultivators, Rakes, Harrows, Planters, Plows, Feed Cutters, etc.)
 HARRISON—Campbell Corn Drill Co. (Corn Drills, etc.)
 HILLSBORO—Bell, C. S. Co. (Feed Mills, Cane Mills, Bells, etc.)
 IRONTON—Ironton Disk Plow Co. (Disc Plows, etc.)
 KENT—Peterson Mfg. Co. (Pulverizers & Clod Crushers)
 LANCASTER—Eagle Machine Co. (Feed Mills, Hand Planters, Corn Shellers, Feed Cutters)
 Hocking Valley Mfg. Co. (Corn Shellers, Hay Rakes, Tedders & Loaders, Feed Cutters)
 MADISON—Genung, W. H. & Son (Garden Seed Drills & Cultivators)

MALTA—Brown-Manly Plow Co. (Plows, Cultivators, etc.)
 MANSFIELD—Aultman & Taylor Machinery Co. (Threshers, Stackers, Clover Hullers)
 Lean, Roderick Mfg. Co. (Harrows, etc.)
 MARIA STEIN—New Idea Spreader Co. (Manure Spreaders)
 MARIETTA—Marietta Mfg. Co. (Plows, etc.)
 MARION—Huber Mfg. Co. (Threshers, Stackers, Weighers, Engines, etc.)
 Implement Mfg. Co.
 Marion Mfg. Co. (Threshers, Stackers, Tractor Engines, etc.)
 MARTINSVILLE—West & Townsend (Cultivators)
 MASSILLON—Harrison, W. R. & Co. (Fodder Cutters, etc.)
 Massillon Engine & Thresher Co. (Threshers, Stackers, etc.)
 Russell & Co. (Threshers, Stackers, etc.)
 MOUNT GILEAD—Hydraulic Press Mfg. Co. (Grain Weighers, etc.)
 NAPOLEON—Morning Star Mfg. Co. (Threshers, etc.)
 NEWARK—Newark Machine Co. (Straw Stackers, Clover Hullers, Fanning Mills)
 NEW BREMEN—Lanfersieck & Grothaus Co. (Plows)
 NEW LEXINGTON—Star Mfg. Co. (Feed Mills & Powers, etc.)
 NEW PHILADELPHIA—Spicer Mfg. Co. (Cultivators, etc.)
 NORTH FAIRFIELD—Fairfield Plow Works (Plows)
 ORRVILLE—Champion Thresher Co. (Harrows, Threshers, etc.)
 PIQUA—Blaine Harrow Mfg. Co. (Harrows)
 PLYMOUTH—Root Bros. Co. (Hand Corn Shell-ers)
 RIPLEY—Phoenix Foundry & Mfg. Co. (Pulverizers, etc.)
 SALEM—Silver Mfg. Co. (Feed Mills, Feed Cutters)
 SANDUSKY—Klotz Machine Co. (Corn Shellers, etc.)
 SPRINGFIELD—American Drill Co. (Grain Drills)
 American Seeding Machine Co. (Grain Drills, Seeders & Sowers Broadcast, Disk, Harrows, etc.)
 Bayley, Wm. Co. (Feed Mills, Hand Grist Mills & Corn Shellers)
 Bowlus Automatic Scale Co. (Automatic Grain Weigher, Loader & Bagger)
 Buckeye Feed Mill Co. (Feed Mills, Corn Harvesters, etc.)
 Foos Mfg. Co. (Corn Harvesters, etc.)
 Mast, Foos & Co. (Lawn Mowers, Wind Engines, Pumps, etc.)
 Mast, P. P. & Co. (Cultivators, Grain Drills, Roberts, Thos. (Feed Mills) Seeders, etc.)
 Rogers Iron Works (Feed Mills, Corn Shell-Ross, E. W. Co.)
 Superior Drill Co. (Grain Drills)
 Thomas Mfg. Co. (Grain Drills, Hay Loaders, Rakes, Tedders, etc.)
 Victor Feed Mill Co. (Feed Mills)
 SWANTON—Baker, A. D. Co. (Threshers)
 TIFFIN—Tiffin Wagon Co. (Corn Shellers, etc.)
 TOLEDO—Ohio Implement Co. (Garden Plows & Cultivators)
 Side Delivery Buncher Co. (Clover Bunchers & Hay Windrowers)
 Toledo Plow Co. (Plows, Cultivators, etc.)
 U. S. Pump & Supply Co. (Plows, etc.)
 UPPER SANDUSKY—Ohio Mfg. Co. (Hay Presses, Harrows, Plows)
 URBANA—Bechtolt, Geo. E. (Plows)
 WESTERVILLE—Bennett, H. L. & Co. (Corn Harvesters, Stump Pullers, etc.)
 ZANESVILLE—Brown Mfg. Co. (Plows, Harrows, Cultivators, etc.)

PENNSYLVANIA.

CARNEGIE—Carnegie Plow & Mfg. Co. (Plows, Garden Cultivators, Rollers, Pulverizers, etc.)
 CHAMBERSBURG—Gilbert, H. S. (Straw & Fodder Cutters)
 DOYLESTOWN—Ruos, Mills & Co. (Threshers, Fodder Cutters)
 EASTON—Wilson Bros. (Feed Mills, Feed Cutters)
 ELIZABETHTOWN—Buch's, A. Sons Co. (Corn Shellers, Fanning Mills, Feed Cutters)
 ELYSBURG—Deshay, D. H. (Corn Plows, Potato Diggers, etc.)
 GREENCASTLE—Walk, Henry S. (Implement)
 HAMBURG—Hamburg Plow Works (Plows, Potato Diggers)
 Loose, Samuel A. & Son (Plows)
 HARRISBURG—Reist, J. B. & Son (Fanning Mills)

INDIANA—Indiana Foundry Co. (Feed Cutters)
 LANSDALE—Heebner & Sons (Threshers, Harrows, Feed Mills, Feed Cutters)
 LEACOCK—Andes, W. D. & Son (Threshers)
 LEBANON—Imboden Harrow & Roller Co. (Harrows)
 LENOVER—Chalfant's, J. N. Sons (Threshers)
 LERAYSVILLE—Bailey, E. Martin (Plows, etc.)
 MARTINSBURG—Martinsburg Foundry Co. (Plows)
 MECHANICSBURG—Comstock, Geo. S. (Rakes, Feed Cutters)
 MIDDLETOWN—Brinser, E. C. & Sons (Grain Cradles, Rakes, etc.)
 MIFFLINBURG—Albright, J. H. & Sons (Harrows, Cultivators, Rakes, Feed Cutters)
 MOUNTVILLE—Mountville Mfg. Co. (Plows, Planters, Corn Shellers, etc.)
 MUNCY—Sprout, Waldron & Co. (Feed Mills, Corn Shellers, etc.)
 NEW BRIGHTON—Logan & Strowbridge Iron Co. (Feed Mills & Corn Shellers)
 NEW CASTLE—Keystone Plow Co. (Plows)
 NEW HOLLAND—New Holland Machine Co. (Feed Mills)
 NEW OXFORD—Smith, Edgar S. Weaver Mfg. Co. (Feed Cutters)
 NORRISTOWN—Rittenhouse, C. & Sons
 OAKHALL STATION—Sellers, Edward (Corn Planters, Feed Cutters & Land Rollers)
 PHILADELPHIA—Allen, S. L. & Co. (Cultivators, Planters, Seeders), 1107 Market Bous, T. Miles (Plows, etc.), Krewstown rd
 Straub, A. W. & Co. (Feed Mills, etc.), 3737 Filbert
 POTTSTOWN—Ellis Keystone Agricultural Wks (Threshers, Feed Mills)
 READING—Lessig, Chas. (Feed Cutters)
 Lessig, Geo. D. (Feed Cutters)
 SNYDERSVILLE—Marsh, E. B. Bro. & Co. (Plows)
 TATAMY—Messenger Mfg. Co. (Planters, Tedders, Threshers, Feed Cutters)
 WAYNESBORO—Frick Co. (Threshers, Stackers, Shellers, Traction Engines)
 Geiser Mfg. Co. (Threshers, Plows, Weighers, Baggers, Clover Hullers, Traction Engines)
 YORK—Farquhar, A. B. Co. (Ltd.) (Threshers, Plows, Grain Drills, Feed Mills, Planters, Corn Shellers, Engines, Feed Cutters)
 Finchbaugh Mfg. Co. (Feed Mills)
 Hallock, D. Y. & Sons (Cultivators)
 Hench-Dromgold Co. (Plows, Harrows, Cultivators, Grain Drills, Feed Mills, Planters, Corn Shellers, Seeders, Feed Cutters)
 Keystone Farm Machine Co. (Plows, Harrows, Cultivators, Feed Mills, Planters, Corn Shellers, Feed Cutters)
 Root, B. M. Co. (Corn Planters)
 Spangler Mfg. Co. (Harrows, Grain Drills, Planters, Feed Cutters)

SOUTH CAROLINA.

BENNETTSVILLE—Star Pea Thresher Co. (Pea Threshers, etc.)

SOUTH DAKOTA.

SIOUX FALLS—Sioux Falls Plow Co.
 WATERTOWN—Lee Bros. (Harrows)

TENNESSEE.

CHATTANOOGA—Chattanooga Implement & Mfg. Co. (Hay Presses)
 Chattanooga Plow Co. (Plows, Cane Mills, Evaporators, etc.)
 Reversible Disc Plow & Implement Co.
 Ross-Meehan Foundry Co. (Feed Cutters)
 Sanders, Newell Plow Co. (Plows)
 CLARKSVILLE—Ground Hog Plow & Foundry Co.
 Patch, A. H. (Corn Shellers)
 HARRIMAN—Harriman Hoe & Tool Co.
 Harriman Mfg. Co. (Plows, Cotton Planters, Harrows, Feed Mills)
 JACKSON—Wells-Jones Plow Co. (Plows)
 JASPER—McKay Harrow Co. (Harrows)
 MEMPHIS—Ellis, Wm. C. & Son (Cotton Seed Cleaners)

TEXAS.

BONHAM—Rapid Fire Hay Press Co. (Hay Presses)
 BRENHAM—Schurenberg, F. W. (Plows)
 BRYAN—Chatham Machinery Co. (Feed Mills)
 DALLAS—Little Giant Hay Press Co. (Hay, Corn Stalk & Straw Presses)
 Southern Mfg. Co. (Boll Weevil Machines, Hay Presses, etc.)
 Texas Disc Plow Co. (Plows)
 LONGVIEW—Kelly, G. A. Plow Co. (Plows)

VERMONT.

BARTON—Munkland, Jno. W. (Plows)
 BELLOWS FALLS—Derby & Ball (Grain Cradles)
 BROOKFIELD—Peck, Clark & Co. (Drag Rakes, Agricultural Forks, etc.)
 CASTLETON—Sargent, S. R. & Son (Plows, Harrows, etc.)
 MIDDLETOWN SPRINGS—Gray's, A. W. Sons (Threshers, etc.)
 RANDOLPH—Osgood & Roundy (Swivel Plows)
 RICHFORD—Richford Foundry Co. (Plows, Cultivators, Weeders & Land Rollers)
 ST. ALBANS—Saint Albans Foundry & Implement Co. (Feed Cutters)
 WOODSTOCK—Daniels Machine Co. (Feed Cutters)

VIRGINIA.

ALEXANDRIA—May, Wm. H. & Son (Plows)
 CHARLOTTESVILLE—Harris, R. F. & Co.
 CHRISTIANBURG—Christiansburg Chilled Plow & Machine Works (Chilled Plows, etc.)
 FREDERICKSBURG—Hunter, Chas. E. (Plows)
 LYNCHBURG—Lynchburg Foundry Co. (Plows)
 NORFOLK—Billups, C. Son & Co. (Plows, Harrows, Cultivators, Corn Shellers, Fanning Mills)
 White, S. R. & Bro. (Plows, Cultivators, Planters, Corn Shellers & Feed Cutters)
 Whitthurst, R. W. Co. (Plows, Hay Presses)
 PETERSBURG—Ayers, J. R. (Peanut & Cotton Planters, etc.)
 RICHMOND—Call-Watt Co. (Plows)
 Cardwell Machine Co. (Threshers, Planters, Feed Cutters, Horse Powers, Hay Presses)
 Starke's Dixie Plow Works (Ashton Starke, Prop.) (Plows, etc.)
 Watts Plow Co. (Plows)
 STAUNTON—Leader Plow Co. (Garden Plows)
 SUTHERLIN—Kerns, H. O. (Plows)

WASHINGTON.

WALLA WALLA—Hunt, Gilbert Co. (Threshers)
 Washington Weeder Works (Weeder Cultivators)

WISCONSIN.

APPLETON—Becker, J. E. (Plows)
 Double Power Mill Co. (Feed Mills & Corn Huskers)
 BEAVER DAM—Beaver Dam Mfg. Co. (Seeders)
 Rowell, J. S. Mfg. Co. (Cultivators, Grain Drills, Rakes, Seeders, Fanning Mills)
 BELOIT—Thompson, J. & Sons Mfg. Co. (Plows, Harrows, Cultivators, Planters, Listers, Rakes, Seeders)
 BRANDON—Sherwin, E. C. & Son (Harrows)
 BRILLION—Brillion Iron Works (Plows, Clod Crushers & Land Rollers)
 EVANSVILLE—Baker Mfg. Co. (Feed Mills, Windmills, etc.)
 OUDAHY—Steitz, J. R. (Potato Planters)
 FOND DU LAC—Fond du Lac Implement Co. (Harrows, Grain Drills, Rakes, Seeders)
 Glasgow, Fred (Plows)
 FORT ATKINSON—Kent Mfg. Co. (Hand Potato & Corn Planters)
 Pounder, Geo. H. (Harrows)
 HARTFORD—Hartford Plow Works (Plows, Harrows, Cultivators, Feed Cutters)
 HORIZON—Van Brunt Mfg. Co. (Cultivators, Grain Drills, Seeders, etc.)
 JANESVILLE—Janesville Machine Co. (Grain Drills, Plows, Harrows, Cultivators, Mowers, Listers, etc.)
 Kent Corn Planter Co. (Hand Corn & Pumpkin Seed Planters)
 Rock River Machine Co. (Haying Tools, Corn Shellers, etc.)
 Strickler, Frank B. (Haying Tools)
 JEFFERSON—Vaughan, O. C. Mfg. Co. (Harrows, Wagons, etc.)
 KAUKAUNA—Solar Mfg. Co. (Fanning Mills)
 KEWAUNEE—Hamacek, Frank (Plows, Feed Mills, Feed Cutters)
 LA CROSSE—City Plow Works (Plows, etc.)
 La Crosse Plow Co. (Plows, Harrows, Cultivators, Grain Drills, Listers, Seeders)
 Smith Grubber Co. (Stump Pullers)
 Smith Mfg. Co. (Stump Pullers)
 La Crosse Threshing Machine Mfg. Co.
 Tomasak & Nekola (Plows, Harrows, Cultivators, etc.)
 MADISON—American Plow Co. (Plows, Cultivators, etc.)
 Fuller & Johnson Mfg. Co. (Grain Drills, Plows, Harrows, Cultivators, Planters, Listers, etc.)

MANITOWOC—Gaterman Mfg. Co. (Canada Thistle Cutters & Clover Bunchers)
 Smalley Mfg. Co. (Corn Shellers, Plows, Feed Cutters)
 MARINETTE—Stevens, A. W. Co. (Threshers, Engines, Wind Stackers, Corn Shellers, etc.)
 MAYVILLE—Zilisch, A. T. (Harrows, Feed Cutters)
 MENOMONEE FALLS—Rowell, I. B. Co. (Plows, Harrows, Cultivators, Feed Cutters)
 MILWAUKEE—Dorsch, John & Sons (Potato Hiller & Digger Combined)
 Dorsch, Lorenz & Son (Plows, Potato Hillers & Diggers)
 Fischer, A. J. (Feed Cutters)
 Hirsch Bros. (Fanning Mills), 267 Reed
 Milwaukee Hay Tool Co. (Corn Huskers, Fodder Shredders & Haying Tools), Layton Park
 Rosenthal Corn Husker Co. (Corn Huskers & Fodder Shredders)
 OSHKOSH—Search Mfg. Co. (Feed Mills, Feed Cutters)
 RACINE—Belle City Mfg. Co. (Feed & Ensilage Cutters, Horse Powers, etc.)
 Case, J. I. Plow Works (Plows, Harrows, Cultivators, Planters, Listers, etc.)
 Case, J. I. Threshing Machine Co. (Threshers, Stackers, Weighers, etc.)
 Dickey, A. P. (Corn Shellers, Fanning Mills)
 Foster & Williams Mfg. Co. (Drag Rakes, Seeders, Fanning Mills, Feed Cutters)
 Freeman, S. & Sons Mfg. Co. (Corn Shellers, Seeders, Fanning Mills, Windmills, Feed Cutters, etc.)
 Johnson & Field Mfg. Co. (Seeders, Fanning Mills, Land Rollers, etc.)
 Racine Implement Co. (Fanning Mills, etc.)
 Wabers, H. H. Mfg. Co. (Hand Corn & Potato Planters)
 Winship Mfg. Co. (Hand Planters, Windmills, etc.)
 RIPON—Hazen, Wayne S. (Harrows)
 SHEBOYGAN—Globe Foundry & Machine Co. (Feed Mills & Feed Cutters)
 SOUTH MILWAUKEE—Stowell Mfg. & Foundry Co. (Haying Tools, etc.)
 SPARTA—Sparta Iron Works Co. (Stump Pullers)
 STROUGHTON—Stoughton Wagon Co. (Plows, Wagons, etc.)
 SUPERIOR—Duplex Mfg. Co. (Feed Mills, etc.)
 WATERLOO—Drew Elevated Carrier Co. (Feed & Litter Carriers)
 WAUPUN—Althouse-Wheeler Co. (Feed Mills, etc.)
 Olson, O. C. (Plows)
 WAUSAU—Wausau Foundry & Machine Co. (Feed Cutters)
 WEST ALLIS—Rosenthal Husker Co. (Huskers & Shredders "Corn")
 WEST BEND—Gehl Bros. Mfg. Co. (Feed & Fodder Cutters, Corn Shellers, Hay Tedders, Harrows, etc.)
 Young Loader Co. (Manure Loaders)

*Agricultural Implement Parts

ANDERSON FORGE & MACHINE CO., 271 Guoin, Detroit, Mich. (See adv. index, end of book)

Havana Metal Wheel Co. (Plow Shares, Points, Lister Shares, Sub-Soilers, etc.), Havana, Ill.

Mason, F. C. & Co. (Potato Digger Blades, Harrow Shoes, etc.), St. Johns, Mich.

Air Brake Fittings

(See Fittings, Air Brake.)

*Air Brake Storage System

WESTINGHOUSE TRACTION BRAKE Co., Pittsburg, Pa.

Air Brakes

(See Brakes, Air)

Air Chambers (Seamless Copper)

Naugatuck Mfg. Co., Naugatuck, Conn.
 Hercules Float Works, Springfield, Mass.

Air Compressors

(See Compressors, Air.)

Air Cushions (Saw Mill Carriage)

Kilgore, Peteler Co., Minneapolis, Minn.
 LANE MFG. CO., Montpelier, Vt. (See adv. index, end of book)

***Air Heaters (Waste Heat)**

GREEN FUEL ECONOMIZER CO., Matteawan, N. Y., & 1218 West Street bldg, New York. (See adv. index & branch offices, end of book)

Air Hoists

(See Hoists, Pneumatic, etc.)

Air Receivers

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

American Air Compressor Works, 26 Cortlandt, N. Y.

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)

CHICAGO PNEUMATIC TOOL CO., Fisher bldg, Chicago, Ill. (See adv. index & branch offices, end of book)

Clayton Air Compressor Works, 116 Liberty, N. Y.

FAIRBANKS, MORSE & CO., Franklin & Monroe, Chicago, Ill. (See adv. index & branch offices, end of book)

GARDNER GOVERNOR CO., Quincy, Ill. (See adv. index, end of book)

INGERSOLL-RAND CO., 11 B'way, New York. (See adv. index & branch offices, end of book)

KEWANEE BOILER CO., Kewanee, Ill., & 169 E Lake, Chicago, Ill. (See adv. index, end of book)

KOVEN, L. O. & BRO., 50 Cliff, New York. (See adv. index, end of book)

Leyner, J. Geo. Engineering Works Co., Littleton, Colo.

McKIERNAN DRILL CO., 170 B'way, New York. (See adv. index, end of book)

PETROLEUM IRON WORKS CO., Washington, Pa., & Farmers' Bank bldg, Pittsburg, Pa. (See adv. index, end of book)

Pollock, Wm. B. Co., Youngstown, O. (book)

Power & Mining Machinery Co., 52 William, New York. Works, Cudahy, Wis.

SCAIFE, WM. B. & SONS CO., 221 1st av, Pittsburg, Pa. (See adv. index, end of book)

SULLIVAN MACHINERY CO., Rail-way Exchange bldg, Chicago, Ill. (See adv. index & branch offices, end of book)

Underwood, H. B. & Co., 1025 Hamilton, Phila., Pa.

Wilks, S. Mfg. Co., 35th & Shields av, Chicago, Ill.

WILSON, F. CORTEZ & CO., 239 Lake, Chicago, Ill. (See adv. index, end of book)

Alarms (Burglar)

Ansonia Electrical Co., Ansonia, Conn.

Benjamin, Geo. P., 81 Fulton, N. Y.

Boston Electric Co., 29 Harrison av, Boston, Mass.

Bunnell, J. H. & Co., 20 Park pl, N. Y.

Dayton Supply Co., Dayton, O.

Elnbigger, Rudolf, 56 New, New York

Electric Goods Mfg. Co., 115 Purchase, Boston, Mass.

Garl Electric Co., Akron, O.

Heath Electric Co., 336 Grand River av, Detroit, Mich.

Herzog Teleseme Co., 51 W 24th, New York

Holmes Electric Protective Co., 26 Cortlandt, N. Y.

Holtzer-Cabot Electric Co., Brookline, Mass.

Jones, J. & Son, 62 Vesey, N. Y.

Manhattan Electrical Supply Co., 17 Park pl, New York

Ostrander, W. R. & Co., 22 New York

Partrick, Carter & Wilkins, 22d & Wood, Phila., Pa.

Pearce, Frederick Co., 18 Rose, New York

Standard Electric Supply Co., 37 Warren, New York

Stanley & Patterson (S. & P. Double Magnet), 23 Murray, New York

Star Electric Co., Binghamton, N. Y.

Western Electric Co., 259 S Clinton, Chicago, Ill., & 57 Bethune, N. Y.

Wilcox, L. M., 219 Market, Newark, N. J.

Ziegler Apparatus Co., 200 Summer, Boston, Mass.

Alarms (Fire, Manual & Automatic Systems)

Bunnell, J. H. & Co., 20 Park pl., N. Y.

Consolidated Fire Alarm Co., 37 E 18th, New York

Foot, Pierson & Co., 82 Fulton, N. Y.

Gamewell Fire Alarm Telegraph Co., 19 Barclay, N. Y.

Knoblock-Heideman Mfg. Co., South Bend, Ind.

Manhattan Fire Alarm Co., 19 Barclay, N. Y.

Partrick, Carter & Wilkins, 22d & Wood, Phila., Pa.

Pearce, Frederick Co., 18 Rose, New York

Special Fire Alarm Electrical Signal Co., 44 E 23d, New York

Star Electric Co., Binghamton, N. Y.

Stephens, Geo. M., 15 Chardon, Boston, Mass.

Utica Fire Alarm & Telegraph Co., Utica, N. Y.

Alarms (Fire, Thermostatic & Automatic System)

Automatic Fire Alarm Co., 416 B'way, New York

Boston Automatic Fire Alarm Co., 104 Milk, Boston, Mass.

Dorion Novelty Co., Springfield, Mass.

Herzog Teleseme Co., 51 W 24th, New York

National Automatic Fire Alarm Co. of La., New Orleans, La.

National Automatic Fire Alarm Co. (of Ohio), Cincinnati, O.

National Fire Appliance Co., 161 Franklin, Boston, Mass.

U. S. Fire & Police Telegraph Co., 381 Albany, Boston, Mass.

Viaduct Mfg. Co., 10 S. Howard, Baltimore, Md.

Alarms (Highway Crossing)

(See Signals, Railway Crossing)

Alarms (Low Water for Boilers)

ASHCROFT MFG. CO., THE, 85, 87 & 89 Liberty, New York. Works: Bridgeport, Conn. (See adv. index, end of book)

Binghamton Machine Tool Works ("The Turner"), Binghamton, N. Y.

Buckeye Iron & Brass Works, Dayton, O.

Burrows Mfg. Co. (High & Low), York, Pa.

Clark Bros. Co., Vicksburg, Mich.

Detroit Lubricator Co. ("Detroit"), Hodges bldg, Detroit, Mich.

Erie Mfg. & Supply Co., Erie, Pa.

Griffing, A. A. Iron Co., Jersey City, N. J.

Hills-McCanna Co., 123 Kinzie, Chicago, Ill.

Jarvis Engine & Machine Works ("Jarvis"), Lansing, Mich.

Jones Automatic Low Water Alarm Co., Detroit, Mich.

Kirchner, P. A. Boiler Alarm Co., Ft. Wayne, Ind.

Lawler Water Feed & Damper Regulator Co., 473 W B'way, New York

Lonergan, J. E. & Co. ("Reliable"), 211 Race, Phila., Pa.

OIL WELL SUPPLY CO., 215 Water, Pittsburg, Pa. (See adv. index, end of book)

LUNKENHEIMER CO. (General Offices & Works, Beekman & Waverly, Cincinnati, O.) (See adv. index & branch offices, end of book)

Monash-Younger Co. (Gem & Signal), 203 S Canal, Chicago, Ill.

PENBERTHY INJECTOR CO., 346 Holden av, Detroit, Mich. (See adv. index, end of book)

Reliance Gauge Column Co., Cleveland, O.

Reliance Machine & Tool Co., Cleveland, O.

Rutzler, E. Co., 127 White, New York

SCHAEFFER & BUDENBERG MFG. Co. ("Ashley"), Foxboro, Mass. (See adv. index & branch offices, end of book)

Sims Co., Erie, Pa.

Steigert, Leopold (Also for High Water, The "U. S." Indicator), cor Elder & Logan, Cincinnati, O.

Van Auken-Cleavage Co., Yonkers, N. Y.

Vicksburg Mfg. Co., Vicksburg, Mich.

Alarms (Puncture)

Baldwin Chain & Mfg. Co., Worcester, Mass.

Worcester Auto Exchange, Worcester, Mass.

Alcohol (Denatured)

Berry Bros. (Ltd.), Detroit, Mich.

Boyd, F. O. & Co., New York

Commercial Distilling Co., Terre Haute, Ind.

Gray, Wm. & Co., New York

Marcus, Julius, New York

Merrimac Chemical Co., Boston, Mass.

Webb, A. L. & Sons, Baltimore, Md.

Woolner & Co., Peoria, Ill.

Alcohol (Grain)

Clifton Springs Distilling Co., Cincinnati, O.

Fleischmann Co., Cincinnati, O.

Webb, Jas. A. & Son, 50 Stone, New York

Alcohol (Wood)

Antrim Chemical Co., Detroit, Mich.

Ashland Iron & Steel Co., Ashland, Wis.

Bartley, John & Co., Mt. Alton, Pa.

Bayless, J. & F. J., Binghamton, N. Y.

BERRY BROS. (Limited), Main Office & Factory, Detroit, Mich. (See adv. index & branch offices, end of book)

Brandt Chemical Co., Binghamton, N. Y.

Burrell Chemical Co., Manistique, Mich.

Cleveland Cliffs Iron Co., Cleveland, O.

Cooper, Chas. & Co., 194 Worth, New York

Corbett, M. J. & Co., Binghamton, N. Y.

Cummer, Diggins & Co., Cadillac, Mich.

Desmond, F. C., Thompsonville, Mich.

Elk Rapids Iron Co., Elk Rapids, Mich.

Gray Chemical Co., Port Alleghany, Pa.

Inderlied, E. C., Binghamton, N. Y.

Innes Bros. & Co., Canton, Pa.

Lackawanna Chemical Co., Susquehanna, Pa.

Leighton, Arthur Co., Methol, N. Y., & Cook Falls, N. Y.

McKean Chemical Co. (Wood Spirits), Williamsport, Pa.

Merrimac Chemical Co., 75 Broad, Boston, Mass.

Otto Chemical Co., Williamsport, Pa.

Russell Chemical Co., Russell, Pa.

Salomon, L. A. & Bro., 216 Pearl, New York

Treyz & Hart Chemical Co., Cooks Falls, N. Y.

Wilcox Mfg. Co., Wilcox, Pa.

Wood Products Co. (Pure Methyl & Refined), Buffalo, N. Y.

Wright, C. F. & Co., Susquehanna, Pa.

Wyman Chemical Co., Port Alleghany, Pa.

Young, W. D. Chemical Co., West Bay City, Mich.

Alkali Mfrs.

Kentucky Refining Co., Louisville, Ky.

Mathieson Alkali Works, Providence, R. I.

Works: Saltville, Va.

Michigan Alkali Co., Wyandotte, Mich.

Solvay Process Co., Syracuse, N. Y., & Detroit, Mich.

Alloys (Aluminum)

Aluminum Co. of America, Pittsburg, Pa., & 99 John, New York

Bridgeport Deoxidized Bronze & Metal Co., Bridgeport, Conn.

Cowles Electric Smelting & Aluminum Co., Lockport, N. Y.

Gilbert, A. & Sons Brass Foundry, St. Louis, Mo.

Hayman, Mich'l & Co., Buffalo, N. Y.

Kemp, W. H. Co., 165 Spring, N. Y.

LEAVITT, C. W. & CO., 222 B'way, New York. (See adv. index, end of book)

New Era Mfg. Co. (Aluminized Zinc), Kalama-zoo, Mich.

Williams, E. A. & Son, 105 Plymouth, Jersey City, N. J.

Alloys (Copper & Nickel)

Benedict & Burnham Mfg. Co., Waterbury, Conn.

LEAVITT, C. W. & CO., 222 B'way, New York. (See adv. index, end of book)

Nassau Smelting & Refining Works, 607 W 29th, New York

Alloys for Steel Mfrs.

Crocker Bros., 99 John, New York, & Penna. bldg, Phila., Pa.

LEAVITT, C. W. & CO., 222 B'way, New York. (See adv. index, end of book)

Vanadium Alloys Co., 25 Broad, New York

Alloys (Manganese)

Cowles Electric Smelting & Aluminum Co., Lockport, N. Y.
Crescent Phosphorized Metal Co. (Copper, etc.), 2109 Indiana, Phila., Pa.
Goldschmidt Thermit Co. (Copper, Tin, etc.), 90 West, New York
LEAVITT, C. W. & CO., 222 B'way, New York. (See adv. index, end of book)

Alloys (Nickelumen)

New Era Mfg. Co. (White Bronze Casting Metal), Kalamazoo, Mich.

Alloys (Phosphor Bronze)

Brady Brass Co., 200 10th, Jersey City, N. J.
LEAVITT, C. W. & CO., 222 B'way, New York. (See adv. index, end of book)
Phosphor Bronze Smelting Co. (Ltd.) ("Elephant" Brand), 2200 Wash'n av, Phila., Pa.

Alloys (Silicon)

Cowles Electric Smelting & Aluminum Co., Lockport, N. Y.

Alloys (White Metal)

Cowles Electric Smelting & Aluminum Co., Lockport, N. Y.
Lissberger, Marks & Son, 397 W 12th, New York, & 375 Driggs av, Brooklyn, N. Y.

Alphabets & Figures (Steel)

(See Stencils)

Altars

(See Marble Altars; also Furniture, Church & Lodge)

*Alternators

GENERAL ELECTRIC CO., Schenectady, N. Y., & 44 Broad, New York. (See adv. index & branch offices, end of book)
Western Electric Co., 259 S Clinton, Chicago, Ill., & 57 Bethune, New York
WESTINGHOUSE ELECTRIC & MFG. Co., Pittsburg, Pa. (See adv. index & branch offices, end of book)

Aluminite

Stowe-Fuller Co., Cleveland, O.

Aluminoid

National Wire Cloth Co., Niles, Mich.

Aluminum Hollow Ware

Aluminum Company of America, Pittsburg, Pa., & 99 Johu, New York
Aluminum Cooking Utensil Co., Park bldg, Pittsburg, Pa. & 99 John, New York
Aluminum Mfg. Co., Two Rivers, Wis.
Buckeye Aluminum Co., Doylestown, Ohio
Griswold Mfg. Co. ("Erie"), Erie, Pa.
Illinois Pure Aluminum Co., Lemont, Ill.
Shepard, Sidney & Co., 60 Tecumseh, Buffalo, N. Y.
United States Aluminum Co., Pittsburg, Pa.
Wagner Mfg. Co., Sidney, O.

*Aluminum Leaf

GRAMMES, L. F. & SONS, Allentown, Pa. (See adv. index, end of book)

*Aluminum Stampings

WORCESTER PRESSED STEEL CO. Worcester, Mass. (See adv. index, end of book)

Alums

Baker & Adamson Chemical Co., Easton, Pa.
Cochrane Chemical Co., Boston, Mass.
Detroit Chemical Works, 190-260 Junction av, Detroit, Mich.

Fuller & Fuller, 220 Randolph, Chicago, Ill.
General Chemical Co. (Sulphuris), 25 Broad, New York
Harrison Bros. & Co. (Inc.), Phila., Pa.
Kaibfelsch, Franklin H. Co., 31 Burling Slip, N. Y.
Kuttruff, Pickhardt & Co., 128 Duane, New York
Lening, Chas. & Co., 112 S Front, Phila., Pa.
Merrimac Chemical Co., 75 Broad, Boston, Mass.
Penna. Salt Mfg. Co., 115 Chestnut, Phila., Pa.
Powers-Weightman-Rosengarten Co., 9th & Parrish, Philadelphia, Pa.
Sholes, C. E. Co., 164 Front, New York
Thomsen Chemical Co., Race c Winder, Baltimore, Md.
Wiarda, John C. & Co., 273 Green, Brooklyn, N. Y.

*Alundum for Polishing

NORTON CO., Main Office, Worcester, Mass. (See adv. index & branch offices, end of book)

*Alundum Grains & Bricks

HARRISON SUPPLY CO., 5 Dorchester av ext., Boston, Mass. (See adv. index, end of book)

*Alundum & Corundum Wheels

NORTON CO., Main Office, Worcester, Mass. (See adv. index & branch offices, end of book)

Amalgamating Pans & Barrels

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)
Hamilton, Wm. Mfg. Co., Petersburg, Ont., Canada
Hendy, Joshua Machine Works, San Francisco, Cal.
Krogh Mfg. Co. ("Acme" for Beach Sands), San Francisco, Cal.
Marshuty & Cantrell, Main c Howard, San Francisco, Cal.
Mine & Smelter Supply Co., Denver, Colo.
Power & Mining Machinery Co., Cudahy, Wis.
Traylor Engineering Co., 114 Liberty, New York
Union Iron Works, Potrero, San Francisco, Cal.

Amalgamating Sheets (Silver Plated)

Baltimore Copper Smelting & Rolling Co., Baltimore, Md.

Ambulances

Birch, James H., Burlington, N. J.
Fulton & Walker Co., 20th & Filbert, Phila., Pa.
Kiblinger, W. H. Co., Auburn, Ind.
Studebaker Bros. Mfg. Co., South Bend, Ind.

Ammeters & Voltmeters

American Coil Co., Foxboro, Mass.
American Instrument Co. ("American," for Direct Current), 16 Lawrence, Newark, N. J.
Atwater-Kent Co., 117 N 6th, Phila., Pa.
BRISTOL CO. ("Bristol's" Recording), Waterbury, Conn., & 114 Liberty, New York. (See adv. index & branch offices, end of book)
Central Laboratory Supply Co. ("Vawter" Recording), La Fayette, Ind.
Champion, Abert Co. (Imported), 541 Tremont, Boston, Mass.
CONNECTICUT TELEPHONE & Electric Co. (Inc.), Meriden, Conn.
Detroit Electric Co., 56 Shelby, Detroit, Mich.
Dongan Instrument Co. (Direct & Alternating), Albany, N. Y.
Dow Portable Electric Co., Braintree, Mass.
Duncan Electric Mfg. Co. ("Duncan" Direct & Alternating Current), La Fayette, Ind.
Du Vivier, Ernest H. (Recording, Imported), 14 Church, New York
Eldridge Electric Mfg. Co., Springfield, Mass.
Etna Electric Works, 145 E 23d, New York
Fort Wayne Electric Works (Inc.), (Wood), Fort Wayne, Ind.
GENERAL ELECTRIC CO. (Recording & Indicating Voltmeters), Schenectady, N. Y., & 44 Broad, New York. (See adv. index & branch offices, end of book)

Hanson & Van Winkle Co. ("The H. & V. W."), 219 Market, Newark, N. J.
Jewell Electrical Instrument Co. ("Jewell" Dead-Beat Portable & Switchboard Type), 61 Union pk, Chicago, Ill.
Kendrick & Davis (The K. & D.), Lebanon, N.H.
Keystone Electrical Instrument Co., 9th & Montgomery av, Philadelphia, Pa.
Knott, L. E. Apparatus Co., 15 Harcourt, Boston, Mass.
Leeds & Northrup Co. ("Leeds & Northrup" Potentiometer), Phila., Pa.
Norton, Chas. Electrical Instrument Co., Manchester, Conn.
Pignolet, Louis M. (Continuous Current), 80 Cortlandt, New York
QUEEN & CO. (Inc.), n w c 8th & Arch, Phila., Pa. (See adv. index, end of book)
Robert Instrument Co., 54 Shelby, Detroit, S. E. I. Co., Syracuse, N. Y.
Sangamo Electric Co. ("Sangamo" Direct Current), Springfield, Ill.
Standard Electric Time Co. ("The Warner"), Waterbury, Conn.
Troy Electrical Instrument Co. ("Troy" Dead-Beat), Troy, N. Y.
Wagner Electric Mfg. Co., 2015 Locust, St. Louis, Mo.
Western Electric Co., 259 S Clinton, Chicago, Ill. & 57 Bethune, New York
WESTINGHOUSE ELECTRIC & MFG. Co. (Direct & Alternating Current), Pittsburg, Pa. (See adv. index & branch offices, end of book)
Weston Electrical Instrument Co., Waverly Park, Newark, N. J.
Whitney Electrical Instrument Co. (Machado & Roller), Penacook, N. H.
Ziegler Apparatus Co., 200 Summer, Boston, Mass.

Ammonia

Ammonia Co., 2815 Gray's Ferry rd, Phila., Pa.
Armitage Mfg. Co., 3200 Williamsburg av, Richmond, Va.
Armour Ammonia Works, 205 La Salle, Chicago, Ill.
Baker & Adamson Chemical Co. ("C. P."), Easton, & McKeesport, Pa.
Barrett Mfg. Co., Land Title bldg, Phila., Pa., & Chicago, Ill.
Billings-Clapp Co., 178 Freeport, Dor, Boston, Mass.
Bower, Henry Chemical Mfg. Co., Gray's Ferry rd, Phila., Pa.
Carbondale Chemical Co. ("Aqua & Anhydrous"), Carbondale, Pa.
Clapp, B. P. Ammonia Co., Louisville, Ky.
Cochrane Cremical Co. (Ammonia, Aqua), Boston, Mass.
Colorado Ammonia & Chemical Co., 9th & Wewatta, Denver, Col.
Columbia Chemical Co. (Parsons), 43 Sedgwick, Brooklyn, N. Y.
Gasselli Chemical Co. (Aqua), Arcade bldg, Cleveland, O.
General Chemical Co., 25 Broad, New York
Harrison Bros. & Co. (Aqua), S 35th & Gray's Ferry av, Philadelphia, Pa.
Hecla Compressed Gas Co. (Anhydrous), Chelsea, Mass.
Hirsh, Leon & Sons (Anhydrous in Cylinders), 368 Greenwich, New York
Kaibfelsch, Franklin H. Co. (Ammonia, Aqua), 35 Burling Slip, N. Y.
Larkiu & Scheffer Chemical Co. (Ammonia, Anhydrous), St. Louis, Mo.
Lister's Agr'l Works (Sulphate), 26 B'way, New York
McKesson & Robbins (Salts of), 91 Fulton, New York
Mallinckrodt Chemical Works, St. Louis, Mo.
Merrimac Chemical Co. (Aqua), 75 Broad, Boston, Mass.
Michigan Ammonia Works (Carbonate), ft of Beaufaix, Detroit, Mich.
National Ammonia Co. (For Refrigerating), St. Louis, Mo.
Northwestern Fertilizer Works (Aqua), 45th & S Center av, Chicago, Ill.
Pacific Ammonia & Chemical Co., Francisco c Webster, San Francisco, Cal.
Penna. Salt Mfg. Co. (Ammonia, Aqua), Phila., Pa.
Powers-Weightman-Rosengarten Co. (Aqua), 9th & Parrish, Philadelphia, Pa.
Roessler & Hasslacher Chemical Co. (Sal Gravel & Carbonate, etc.), 100 William, New York

Solvay Process Co. ("Aqua")
 Western Chemical Mfg. Co. (Ammonia, Anhydrous), Denver, Colo
 Wiarda, John C. & Co., 273 Green, Brooklyn, N. Y.
 Wolf, Fred. W. Co. (Condensed), 139 Rees, Chicago, Ill.

Anchors

Admiral Anchor Co., Chester, Pa.
 American Ship Windlass Co. ("Babbitt"), Providence, R. I.
 Baldt Anchor Co., Chester, Pa.
BETHLEHEM FOUNDRY & MACHINE Co. (Mushroom, Ship, etc.), Front, South Bethlehem, Pa., & 149 B'way, New York. (See adv. index, end of book)
 Bowers, L. M. & Co. ("National"), ("International"), Binghamton, N. Y.
 Camden Anchor-Rockland Machine Co. (Wrought Iron, 20 to 8,000 lbs.), Camden, Me.
 Cape Ann Anchor Works, Gloucester, Mass.
CARPENTER, GEO. B. & CO., 202 S Water, Chicago, Ill. (See adv. index, end of book)
 Chester Steel Casting Co. (Ship), 407 Sonsom, Philadelphia, Pa.
 Coleman, Walter & Sons ("Rex"), Providence, R. I.
 Laughlin, Thos. Co. ("Dirigo" Folding, Fishing, Grapnel, Mushroom, Stockless, etc.), Portland, Me.
 Matthews, W. N. & Bro. (Ship), 206 N 2d, St. Louis, Mo.
 National Steel Foundry Co. (Ship), Fairmont av, New Haven, Conn.
 New Jersey Foundry & Machine Co. (Ship), 9 Murray, New York
 Penn Steel Casting & Machine Co. (Open Heart Steel), Chester, Pa.
 Seaboard Steel Casting Co. (Open Hearth Steel), Chester, Pa.
 Wilcox, Crittenden & Co. (Stockless with Ball & Socket, Mushroom, Folding, Grapplings, etc.), Middletown, Conn.

Anchors (Guy)

Attica Foundry & Machine Co. ("Blaine"), Attica, O.
 Bennett, I. A. ("Bull Tongue"), Chicago, Ill.
 Crouse-Hinds Co. (Harpoon), Syracuse, N. Y.
 Jackman, W. J. ("The Jack Anchor"), Lima, O.
 Matthews, W. N. & Bro. ("Stombaugh"), 206 N 2d, St. Louis, Mo.
 Miller Anchor Co. ("Miller" Safety), Norwalk, O.
 Nagel, W. G. Electric Co. ("Hercules"), 23 St. Clair, Toledo, O.
 Wapak Hollow Ware Co., Wapakoneta, O.
 Western Electric Co., 259 S Clinton, Chicago, Ill., & 57 Bethune, New York

Anchors (Plate)

Lanz, M. & Sons, Carson & 29th, Pittsburg, Pa.

Anchors (Rail)

Burgess, B. ("Burgess" Rail Anchors), Danville, Ill.
 Miller Anchor Co. (For Wrecking Derricks), Norwalk, O.
 Scott Mfg. Co. ("Racine"), Racine, Wis.

Anchors (Rock)

Lanz, M. & Sons, Carson & 29th, Pittsburg, Pa.

Anchors (Wall, Strap & Pin)

Variety Mfg. Co., Sacramento & Carroll av., Chicago, Ill.

Andirons

(See also Fire Place Furnishings.)

Boston Brass Andiron Co. (Brass), 104 Utica, Boston, Mass.
BRADLEY & HUBBARD MFG. CO. (Brass), Meriden, Conn. (See adv. index, end of book)
 Elm City Brass & Rivet Co., Plainville, Conn.

Glascok Stove & Foundry Co., Greensboro, N. C.

JACKSON, WM. H. COMPANY (Brass & Iron), 29 E 17th (Union Square), N. Y. (See adv. index, end of book)

Judd, H. L. Co., 87 Chambers, New York
 Perelson, L. (Wrought Iron), 204 Centre, New York
 Rose Bros. (Artistic Wrought Iron), 123 Bank, Cleveland, O.

Rostand Mfg. Co., New Haven, Conn.

Anemometers

Keuffel & Esser Co. 127 Fulton, New York
QUEEN & CO. (Inc.), n. w. e 8th & Arch, Phila., Pa. (See adv. index, end of book)
SCHAEFFER & BUDENBERG MFG. CO. ("Biram" & "Robinson"), Foxboro, Mass. (See adv. index & branch offices, end of book)

Anglegraphs

Cassady-Fairbank Mfg. Co., Chicago, Ill.

Anglemeters

Sargent Steam Meter Co. ("Sargent" Indicator), First National Bank bldg, Chicago, Ill.

Aniline Colors & Dyes

Beach & Co., Hartford, Conn.
 Berlin Aniline Works, 213 Water, New York
 Bull's Ferry Chemical Co., Shadyside, N. J.
 Casella Color Co., 182 Front, New York
 Geisheimer & Co., 189 Front, New York
 Heller, Merz & Co., 22 Cliff, New York
 Kalbfleisch, Franklin H. Co., 31 Burling Slip, N. Y.
 Kalle & Co., 534 Canal, New York
 Kuttroff-Pickhardt Co., 128 Duane, New York
 Schoelkopf, Hartford & Hanna Co., Buffalo, N. Y.
 Thayer, E. M. & Co. (also Alizarine Colors), 411 Atlantic av, Boston, Mass.

Annealers (Armor Plate, Etc.)

CHICAGO PNEUMATIC TOOL CO. ("Tynan"), Fisher bldg, Chicago, Ill. (See adv. index & branch offices, end of book)

Annealers (Wire)

Cornell, J. B. & J. M. Co., 26th & 11th av, New York

Annunciators

Ansonia Electrical Co., Ansonia, Conn.
 Boston Electric Co., 29 Harrison av, Boston, Mass.
 Bunnell, J. H. & Co., 20 Park pl, New York
 Couch & Seely Co. (Hotel & House), 10 Thatcher, Boston, Mass.
 Electric Goods Mfg. Co. ("Ross," "Dandy," "Perfect," etc.), 115 Purchase, Boston, Mass.
ELEVATOR SUPPLY & REPAIR CO., 34 W Monroe, Chicago, Ill., & 136 Liberty, New York. (See adv. index, end of book)
 Garl Electric Co., Akron, O.
 Gifford & Henry (Pneumatic), 209 Chancellor, Phila., Pa.
 Heath Electric Co. ("Ideal"), 336 Grand River av, Detroit, Mich.
 Herzog Teleseme Co., 51 W 24th, New York
 Holtzer-Cabot Electric Co., Brookline, Mass.
 Jones, J. & Son, 62 Vesey, New York
 Manhattan Electrical Supply Co., 17 Park pl, New York
 Moon Mfg. Co. (Knapp), 49 S Canal, Chicago
 Novelty Electric Co., 52 N 4th, Phila., Pa.
 Ostrander, W. R. & Co., 22 Dey, New York
 Partrick, Carter & Wilkins, 1231 Callowhill, Philadelphia, Pa.
 Stanley & Patterson (S. & P. Double Magnet), 23 Murray, New York
 Star Electric Co., Binghamton, N. Y.
 Viaduct Mfg. Co., 10 S Howard, Baltimore, Md.
 Western Electric Co., 259 S Clinton, Chicago, & 57 Bethune, New York
 Wotton Electric & Mfg. Co. (Automatic Reset, etc.), Atlanta, Ga.

Annunciators (Automobile)

Champion, Abert Co. (Imported), 541 Tremont, Boston, Mass.
 Cowles, C. & Co. (Inc.) ("Madison Square" & "Mechanics Hall"), New Haven, Conn.
 Jones Speedometer Co., 127 W 32d, New York

Annunciators (Elevator)

(See Elevator Annunciators.)

Anodes (Bronze & Copper)

Hudson Rolling Mill Co. (Copper), Bloomfield, N. J.
 New Haven Copper Co. (Copper, Rolled only), Seymour, Conn.
 Matthews, H. A. Mfg. Co., Seymour, Conn.
 Seymour Mfg. Co., Seymour, Conn.
 Taunton-New Bedford Copper Co. (Copper), New Bedford, Mass.

*Anodes for Electro Plating

UNITED WIRE & SUPPLY CO. (In Gold & Silver), 109-119 Summer, Providence, R. I. (See adv. index, end of book)

*Anodes (Gold & Silver)

UNITED WIRE & SUPPLY CO., 109 Summer, Providence, R. I. (See adv. index, end of book)

Anodes (Nickel)

Auburn Soap & Chemical Co., Auburn, N. Y.
 Dow Chemical Co., Mansfield, O.
 Harshaw, Fuller & Goodwin Co. (& Salts), Cleveland, O.
 Seymour Mfg. Co., Seymour, Conn.
 Talcott, C. H. & Co. (& Salts), Hartford, Conn.

Anti-Friction Metals

(See Bearings of Various Kinds; also Babbitt Metal.)

*Antimonial Lead

MERCHANT & EVANS CO. (Inc.), 517 Arch, Phila., Pa. (See adv. index & branch offices, end of book)

Antimony

American Metal Co., 52 B'way, New York
 Blatchford, E. M. & Co., 70 Clinton, Chicago, Ill.
 Davol, Jno. & Sons., 135 William, New York
 Gilbert, A. & Sons Brass Foundry, St. Louis, Mo.
 Hendricks Bros., 46 Cliff, New York
 Hayman, Mich'l & Co., Buffalo, N. Y.
 Hiertz Metal Co., 10th & Poepping, St. Louis, Mo.
 Hoyt Metal Co., 325 Locust, St. Louis, Mo.
 Hungerford, U. T., Brass & Copper Co., 497 Pearl, New York
 Hussey, C. G. & Co., 2850 2d av, Pittsburg, Pa.
LEAVITT, C. W. & CO., 222 B'way, New York. (See adv. index, end of book)
MERCHANT & EVANS CO. (Inc.), 517 Arch, Phila., Pa. (See adv. index & branch offices, end of book)
 Nassau Smelting & Refining Works, 607 W 29th, New York
Raymond Lead Co., 51 W Lake, Chicago, Ill.
 Tennant & Sons Co. (Importers), 76 William, New York
 Trench, C. S. & Co., 81 Fulton, N. Y.
 Trotter, Nathan & Co., 36 N Front, Philadelphia, Pa.
 Vogelstein, L. & Co., 90 Wall, New York

Anti-Rattlers

Bauer Bros. Mfg. Co. ("Burton," "Higgin" & "Johnson"), Cincinnati, O.
 Boston Belting Co., Boston, Mass.
 Evans, Coppins & Starks Co. ("Star Quick Shift"), Princeton, Ill.
 Fernald Mfg. Co. ("Burton," "Quick Shift," "Wire" & "Ladd"), North East, Pa.
 Higgin Mfg. Co., Newport, Ky.
 Kohler, F. E. & Co. ("Kohler"), Canton, O.
 Monarch Carriage Goods Co. ("Handy"), Cincinnati, O.

Metal Stamping Co. ("Johnson"), 468 W B'way, New York
 Onelda National Chuck Co. ("National"), Onelda, N. Y.
 Racine Malleable & Wrought Iron Co. ("Whitney"), Racine, Wis.
 Raymond Mfg. Co., Corry, Pa.
 Tanner, D. F. ("Quick Shift"), Holland, N. Y.
 United Globe & Rubber Mfg. Co., Trenton, N. J.

Anvil & Vise Combined

Adams, A. L., Cedar Rapids, Iowa.
 Eagle Anvil, Vise & Rail Joint Works, Trenton, N. J.
 Foos Mfg. Co. (Farmers), Springfield, O.
 Fulton Iron Works ("Detroit," "Cheney"), Detroit, Mich.
 Hunt, Helm, Ferris & Co. ("Star"), Harvard, Ill.
 Millers Falls Co., Millers Falls, Mass.; & 28 Warren, New York
PARKER, CHARLES CO., Meriden, Conn. (See adv. index, end of book)
 Porter, J. E. Co., Ottawa, Ill.
 Richardson Mfg. Co., Worcester, Mass.
 Sovereign, C. E. Co., Rockford, Ill.
 Strickler Hay Tool Co., Janesville, Wis.

Anvils

American Wrought Anvil Co., 12 Richards, Brooklyn, N. Y.
 Baldwin, Tuthill & Boltou, Grand Rapids, Mich.
 Columbian Hardware Co. (The "Columbian"), Coe & Hamilton, Cleveland, O., & 168 Church, New York
 Columbus Forge & Iron Co. (Solid Wrought), Columbus, O.
 Fisher & Norris ("The Fisher") (Clark Fisher, Prop.), Fair & Factory, Trenton, N. J.
 Hay-Budden Mfg. Co., 254 N Henry, Brooklyn, N. Y.
 Hollands Mfg. Co., Erie, Pa.
 Illinois Iron & Bolt Co., Carpentersville, Ill.
 Phoenix Hardware Mfg. Co., Phoenix, N. Y.
 Russ, A. E. Mfg. Co., 87 Wade Park av, Cleveland, O.
 Safety Meter Lock Co. (Bench), Columbus, O.
 Schreiber & Conchar Mfg. Co., Dubuque, Ia.
 Wickes Bros., Saginaw, Mich.

Anvils (Bench)

Fisher & Norris ("Fisher" Screw) (Clark Fisher, Prop.), Fair & Factory, Trenton, N. J.
 Hay-Budden Mfg. Co., 254 N Henry, Brooklyn, N. Y.
 Hollands Mfg. Co., Erie, Pa.
 Massachusetts Tool Co., Greenfield, Mass.
 Phoenix Hardware Mfg. Co., Homer, N. Y.

Anvils (Farm)

Boynton Scale Co., Toledo, Ia.
 Chicago Wheel & Mfg. Co., Chicago, Ill.
 Fisher & Norris ("Fisher"), Trenton, N. J.
 Hay-Budden Mfg. Co., Brooklyn, N. Y.
 Kupferle, Jno. C., St. Louis, Mo.
 Litchfield Mfg. Co., Waterloo, Ia.
 Millers Falls Co., 28 Warren, New York, & Millers Falls, Mass.
 Patten & Stafford Co., Canastota, N. Y.
 Wrightsville Hardware Co., Wrightsville, Pa.

Anvils (Jewelers')

Billings & Spencer (With Base), Hartford, Conn.

Anvils (Paper Weight)

Wrightsville Hardware Co., Wrightsville, Pa.

Anvils (Plow)

Atha Tool Co., Newark, N. J.
 Eagle Anvil, Vise & Rail Joint Works, Trenton, N. J.
 Evansville Tool Works, Evansville, Ind.
 Hay-Budden Mfg. Co., 254 N Henry, Brooklyn, N. Y.
 Plumb, Fayette R., Pa. R. R. & Tucker, Fkd., Philadelphia, Pa.
 Vaughn & Bushnell Mfg. Co. (Drop Forged), 875 W Carroll av, Chicago, Ill.

*Anvils (Pneumatic)

INGERSOLL-RAND CO. ("Foley"), 11 B'way, New York. (See adv. index & branch offices, end of book)

Apparatus for Making Rubber Stamps

Smith, R. H. Mfg. Co., 293 Main, Springfield, Mass.

Aprons (Blacksmiths' Leather)

Hull Bros. Co., Danbury, Conn.

Aprons (Condenser)

Norwich Belt Mfg. Co., Norwich, Conn.

*Aprons (Flange)

BOSTON BELTING CO. (For Ore Concentrating Machines, etc.), 260 Devonshire, Boston, Mass. (See adv. index & branch offices, end of book)

Aprons (Leather)

Barnes, Henry K., 104 Franklin, Boston, Mass.
 Coupe, Wm. & Co. (Rawhide "Excelsior"), S Attleboro, Mass.
 Firth, Wm. Co., 79 Milk, Boston, Mass.
HUDSON BELTING CO. ("Sheepskin"), Worcester, Mass. (See adv. index, end of book)
 Helvetia Leather Co., Lancaster, Pa.
 North Chelmsford Machine & Supply Co., North Chelmsford, Mass.
 Pechln, Jno. W., 124 N 3d, Phila., Pa.
 Turner, J. S. Mfg. Co., Lowell, Mass.

Aprons (Mechanics')

Walters, Wm. P. Sons (Duck), 1233 Market, Phila., Pa.

*Aprons (Paper Mill)

BOSTON BELTING CO. (Rubber), 260 Devonshire, Boston, Mass. (See adv. index & branch offices, end of book)

Aprons (Rain)

Automobile Equipment Co., 244 Jefferson av, Detroit, Mich.
 Daugherty Mfg. Co. ("Storm King"), Columbus, O.
 Everitt, B. F., 65 Fort E, Detroit, Mich.
 Kroh, C. Z. & Co., Toledo, O.
 Lembach Bros., 253 Jefferson av, Detroit, Mich.
 Springfield Auto Top & Upholstering Co., Springfield, Mass.

Aprons (Rubber)

BOSTON BELTING CO., 260 Devonshire, Boston, Mass. (See adv. index & branch offices, end of book)
 Goodrich, B. F. Co., Akron, O.
 Goodyear Rubber Co., 787 B'way, New York
 Gutta Percha & Rubber Mfg. Co., 126 Duane, New York

Aquariums (Glass)

Co-Operative Flint Glass Co., Beaver Falls, Pa.
 Crane Glass & Mfg. Co. (All Glass), 284 St. Clair, Cleveland, O.

Arbors (Drill Chuck)

MORSE TWIST DRILL & MACHINE Co., New Bedford, Mass. (See adv. index, end of book)
 National Twist Drill & Tool Co. (Arbors for Shell Reamers), Detroit, Mich.
 Skinner Chuck Co., New Britain, Conn.
 Trevor Mfg. Co. (Chuck), Lockport, N. Y.
 Union Mfg. Co. ("Union"), New Britain, Conn.
WHITMAN & BARNES MFG. CO., West Pullman, Chicago, Ill. (See adv. index & branch offices, end of book)

*Arbors (Fly Cutter)

OWEN MACHINE TOOL CO., Springfield, O. (See adv. index, end of book)

Arbors (Milling Machine)

Brown & Sharpe Mfg. Co., Providence, R. I.
 Harrison & Knight Mfg. Co., 60 Shipman, Newark, N. J.
OWEN MACHINE TOOL CO., Springfield, O. (See adv. index, end of book)
 Union Twist Drill Co., Athol, Mass.

Arbors (Shell End Mill)

Becker, Brainard Milling Machine Co., Hyde Park, Mass.
 Union Twist Drill Co., Athol, Mass.

Arbors (Shell Reamer)

Cincinnati Screw & Tap Co., 2412 Beekman, Cincinnati, O.
 Cleveland Twist Drill Co., Lake & Kirtland, Cleveland, O.
MORSE TWIST DRILL & MACHINE Co., New Bedford, Mass. (See adv. index, end of book)
 National Twist Drill & Tool Co., 21st & Standard, Detroit, Mich.
 Pratt & Whitney Co., Hartford, Conn.
 Rogers, John M. Boat, Gauge & Drill Works, Gloucester City, N. J.
 Standard Tool Co., 1260 Central av, Cleveland, Ohio
 Western Tool & Mfg. Co. ("Champion"), Springfield, O.
 Wiley & Russell Mfg. Co. ("Green River"), Greenfield, Mass.

Arc Deflectors for Controllers

Reconstructed Granite Co., 14 Dey, New York; Works, Norristown, Pa.

Arc Deflectors & Linings

Johns, H. W.-Manville Co. ("Electrobestos"), 100 William, New York

*Arc Welders (Electric)

ELECTRIC CONTROLLER & SUPPLY Co., Cleveland, O. (See adv. index & branch offices, end of book)

Architects

Note Well—Architects enjoy the special, constant and FREE USE of our BUREAU OF INFORMATION.

Whenever an Architect is at a loss to know the name and address of a Manufacturer of a given article he desires to specify, this Bureau will, on application, see that his means of access to such Manufacturer are rendered easy, accurate and IMMEDIATE.

(Fellows of the American Institute of Architects are indicated by a *.)
 (Firms who describe themselves as Architects and Builders are indicated by the following marks: \$†.)

ALABAMA.

ANNISTON—Carleton, Chas. W.
 BIRMINGHAM—Breeding & Whitted, Watts bldg
 Chaffee, W. C., Jefferson Co. Sav. Bank bldg
 Chamberlin, W. & Co., Chalifoux bldg
 Coleman & Parry, First Nat'l Bank bldg
 Collington, G. W., First Nat'l Bank bldg
 Helmich, D. A., Hood bldg
 La Belle-Krihs Co., Title Guarantee bldg
 McLain, J. W., 213½ N 20th
 Maddox, J. M., Chalifoux blk
 Miller & Martin, Title Guarantee bldg
 Ryan & Stephens, Hood bldg
 Splnk, W. E., Title Guarantee bldg
 Ullman, S. M., Chalifoux bldg
 Walter, T. U., 830 S 30th
 Weston, Wm. C., 1st Nat'l Bank bldg
 *Wheelock, Joy & Wheelock, Stelner bldg
 EUFAULA—Multhrop, R. J.
 Stevens, C. A.
 HUNTSVILLE—Mayhew, J. H.

MOBILE—Benz, Rudolph, Masonic Temple
Rogers, Geo. B., Fidelity Club bldg
Watkins & Hutchinson, 82 St. Francis
MONTGOMERY—Ausfeld & Blount, 105 Bibb
Cox, W. N., 21 Dexter av
Lockwood, Frank, 121 Adams
Ostling, E. J., 101½ Dexter av
Smith, B. B., 22 S Perry
TUSCALOOSA—Donoho, C.

ARIZONA.

PHOENIX—GREGG, A. W., O'Neil blk
TUCSON—Trost & Rust

ARKANSAS.

FORT SMITH—Bernell Architect
Blakely, W. H., 9th & A
Chism, A. C., 801 Gar av
Hoffman & Seidell, 801½ Gar av
Klingensmith, A., 111s bldg
HOT SPRINGS—Van Patten, S. P.
LITTLE ROCK—Burton, Percy De V.
*Gibb & Sanders
Harker, H. J.
Mann, Geo. R.
*Thompson, Chas. L.
Whitehead, J. M.
PINE BLUFF—*Cook, Edwin W.

CALIFORNIA.

ALAMEDA—Denke, A. Reinhold, 1400 Webster
†MacRae, Chas. W., 2315 Encinal av
ALTADENA—Reeves, Wm. H.
BAKERSFIELD—McDougall, B. G.
BERKELEY—Chase, A. B., 1910 University av
Howard, J. G., 2421 Ridge
Jordan, C. R., 1325 Henry
CORONA—Kroonen, Leo.
FRESNO—Hotchkin, Robert B., 1732 L
Kirby, C. K., Jr., Fisk bldg
Mathewson, E., Forsythe blk
Swartz, A. C., Fiske bldg
FULTON—Shriner & Le May
GILROY—Campbell, C. L.
HERALDSBURG—Terry, J. W.
LONG BEACH—Starbuck & Ridgway
LOS ANGELES—Albright, Harrison, Laughlin bldg
Ashby Building Co., Stimson blk
Austin & Brown, Pacific Electric bldg
Benton, A. B., 114 N Spring
Brown, C. H., 516 Stimson blk
Burnham, F. P., Pacific Electric bldg
Burton, J. Lee, Germain bldg
Cook, J. B., McLaughlin bldg
Crane & Norberg, Johnson bldg
Dennis & Farwell, Currier bldg
Dorn, Fred R., Douglas bldg
Dudley, Alpheus, Mason bldg
Eaton, Chas. Fred, P. E. bldg
Edelman, A. M., Blanchard bldg
Ehlers, P. W., Copp bldg
Eisen, Theo. A., Wilcox bldg
Farquhar, R. D., Fay bldg
Ferguson, R. C., 1975 S Vermont av
Fitzhugh, Thornton, Laughlin bldg
Fripp, R. Mackey, 227 Mercantile pl
Garrett & Bixby, Currier bldg
Goersch, J. C. Cham. of Commerce bldg
Goodale, O. E., O. T. Johnson bldg
Greene & Greene, Pacific Elec. bldg
Grey, Elmer, Union Trust bldg
Haag, D. S., 142 W 28th
Haley, A. L., Citizens Nat'l Bank
Howard, G. A., Jr., Grant bldg
Hubbell, C. E. W., Bullard bldg
Hudson & Munsell, Stimson bldg
Hunt, Myron, Union Trust bldg
Hunt & Eager, Laughlin bldg
Jackson, W. H., Chamber of Commerce
Jenney, Wm. Le Baron, 6616 Thorne
Keel, J. R. & Co., Mason bldg
Kent, E. C., Grant bldg
Kremple, J. P., 415 Henne bldg
Long, V. E., Pacific Elec. bldg
MacDonald, J. M., Thorpe bldg
Maginnis, Walsh & Sullivan, Citizens Nat'l Bank
Marsh & Russell, Stimson bldg
Martin, M. P., 112 Henne bldg
Mohr, W. H., Laughlin bldg
Moore, Lester S., Grant bldg
Morgan & Walls, 232 N Main
Munsell, W. A. O., Stimson bldg
Neher, Otto H., P. E. bldg
Norton, S. T., Byrne bldg
Palmer, F. E., 999 W 32d
Parmentier, F., Grant bldg
Parkinson & Bergstrom, Union Trust bldg

Patterson, H. M., O. T. Johnson bldg
Preston, Thos., Currier bldg
Preston & Seehorn, Henne bldg
Puttcamp, A. H., Severance bldg
Reeves, H. Allen, Cham. of Com. bldg
Rittenhouse, C. C., Wilcox bldg
Roehrig, Frederick L., 404 Byrne bldg
Rosenheim, Alfred F., H. W. Hellman bldg
Saunders, W. J., Mason bldg
Scott Bros., Chamber of Commerce
Shattuck, Chas. E., Mason bldg
Simons, F. E., 1194 E 34th
Skilling, Chas. F., Bradbury bldg
Smith, A. C., 307 S B'way
Soper, Fred J., Thorpe bldg
Tate, Lillian P., Johnson bldg
Train & Williams, 254 S B'way
Tyler, F. M., Laughlin bldg
Upp, G. B., 1149 W 1st
Valk, L. B. Arch'l Co., Stimson bldg
Voelkel, G. E., 847 E 20th
Walsh, Timothy, Citizens Nat'l Bank bldg
Westberg & Burke, H. W. Hellman bldg
Whittlesey, C. F. & Co., Auditorium
Wyman, G. H., Henne bldg
Young, R. B., Lankershim blk
Zeller, J. T., 123 W 31st
LOS GATOS—Cutter, Wm. H.
Lobdell, Frank
NAPA—Corbett, W. H.
Turton, L. M.
NEVADA CITY—\$Tomkins, O. A.
OAKLAND—Arnold, Sam'l, 1116 Wash'n
Conant, John, 1055 B'way
Cook, Christopher M., 1003 B'way
Coplin, Alber D., Bacon bldg
Dickey, C. W., Dracena av
McCall & Whyte, Central Bank bldg
Matthews, W. J., 969 B'way
Mau, C. F., 1166 B'way
Morgan, Thos. W., Jr., 611 19th
Newson, T. D., 906 B'way
Schetzel, M. P., 906 B'way
Sillsbee, F. J., 858 1-2 20th
Smith, A. W., 1004 B'way
Soderberg, Fred, Union Sav. Bank bldg
Voorbees, F. D., Central Bank bldg
Wellby, W. H., 510 18th
ORANGE—Bradshaw, C. B.
PALO ALTO—Olive, LeBown R.
Walker, R. H.
PASADENA—Allen, F. S.
Blick, Jas.
Buchanan, Chas. W.
Driscoll, Chas. F.
Edwards, W. B.
PLEASANTON—Weilby, J. L.
POMONA—Davis, Ferdinand
Wolfe, Chas. E.
REDLANDS—Harris & Pratt
RIVERSIDE—Waldman, L. C.
SACRAMENTO—Campbell, Alden W., Casey bldg
Herold, R. A., Bryte bldg
Schardin, F. H., Gerber bldg
Seadler & Hoen, Gerber bldg
SAN BERNARDINO—Goff, Thos. Hargrave
SAN DIEGO—*Hebbard & Gill
Kennedy, S. G.
Quayle, Edw.
Stannard & Clements
SAN FRANCISCO—Armitage & Rowell, 1427 Post
*Babson, Seth, Phelan bldg
Bakewell & Brown, 1860 Webster
Banks, W. O., 126 Kearny
Barnett, A. J., 1414 Hermann
Barth, Hermann, 2500 Fillmore
Behrnd, Gustav A., 386 Sutter
Blaisdell, Nathaniel, 621 Sansome
Bliss & Faville, 15 2d
Boese, Fred'k D., 789 Market
Bugbee, Maxwell G., 1300 G. G. av
Burnham, D. H. & Co., Merchants Ex. bldg
Cantin, Alex, Monadnock bldg
Carey, Jno. W., 40 Haight
Cebrian, John C., Pine & Octavia
Coleman, David C., 927 Market
Colley, Chas. J., 809 Market
Copeland & Pierce, 126 Kearny
Coplin, A. Dodge, Flood bldg
Coxhead & Coxhead, 2100 Pine
Cunningham & Politeo, Chronicle bldg
*Curlett, Wm., Mutual Bank bldg
Curtis, John M., 2501 Buchanan
Cuthbertson, W. J., 1231 O'Farrell
Daley, Robert H., 232 Stockton
Day, Clinton, Union Trust bldg
Deane, Lionel, 1343 McAllister
Demartini, Paul, 421 8th av
Devlin, Chas. J. I., 618 Baker
Dickie, Jas., 34 Stuart
Dodge & Allen, 330 Turk

Dolliver, J. W., 604 Mission
Dunn, J. F., 1124 Geary
Dutton, L. B., Chronicle bldg
Everett, Oliver, 1940 Webster
Farr, Albert, 2053 Sutter
Flugger, Jno. C., 1095 Market
Forsyth, J. W., Van Ness & O'Farrell
Freman, J. Eugene, Kohl bldg
Garin, E. A., 1418 Waller
Gleifuss, Henry & Son, 150 Fulton
Godart, Jules, 307 Sansome
Harris, Harvey E., Jr., 805 B
Harf, Ralph W., 816 Battery
Hatch, John D., 526 Larkin
Haupt, Oscar, 901 Pine
Hayens & Toepke, Mutual Sav. Bank bldg
Haynes, Chas., Chronicle bldg
Hay & Weissmann, 1300 G. G. av
Helbing, Wm., 311 Bush
Hemenway & Miller, 411 Eddy
Hemmings, E. Chas., 1045 Geary
Hermann, Emil A., 120 Sutter
Hind, W. G., 1765 Geary
Hind, W. G. Co., Ellis & Van Ness
Hobart, Lewis P., 1860 Webster
Holabird & Roche, Monadnock bldg
Holmes, Edw. L., Chronicle bldg
Howard & Galloway, 604 Mission
Hyde, E. W., Chronicle bldg
Jackson, P. H. & Co., 230 1st
Jacobs, Alfred H., 219 Sansome
Jobn & Zimmerman, Emma Spreckels bldg
Keenan, Chas. J., 300 Webster
Kelham, Geo. W., Post & Leavenworth
Kidd & Anderson, 410 Kearny
Knowles, Wm., Mutual Sav. Bank bldg
Koenig, Wm., 1251 5th av
*Kollofrath, Edmund, 933 Market
Krafft, Julius E., 509 Golden Gate av
Laib, Arthur J., 509 Golden Gate av
Lansberg & Joseph, 1100 O'Farrell
Lelardoux, P., 1449 Greenwich
Lemme, Emil S., 1016 Fillmore
Lenzen, Theo. W., 1635 1st
Lutgens, A. C., 1700 California
Lyon, Moscs J., Delbert blk
McCrea, G. E. & Co., 915 Van Ness av
McDougall, Benj. G., Monadnock bldg
MacDonald & Dean, Post & Gough
Mackay, Henry S., 943 Van Ness
Maggs, Herbert B., 125 Alpine
Mahoney, Wm. C., 1231 O'Farrell
Maritzen, August, 1226 Page
Martens & Coffey, 809 Market
Mastropasqua, Louis, Monadnock bldg
Mathews, Edgar A., 2913 Jackson
Mathewson & Mabr, 622 Golden Gate av
Maybeck & Whyte, 307 Sansome
Meussdorffer, Conrad A., Monadnock bldg
Meyer & O'Brien, 779 Market
Meyers & Ward, Kohl bldg
Miller & De Colmesnil, 2416 Fillmore
Milwain Bros., 787 Market
Milwain & Mooser, Union Trust bldg
Mitchell, Harold D., 14 McAllister
Mitchell, W. Garden, Monadnock bldg
Morgan, Miss Julia, 1572 Busb
Mullgardt, Louis C., Chronicle bldg
Newsom & Newsom, 526 Larkin
Noonan, Fred'k, Sutter & Hyde
Nordin, August, 563 Fillmore
O'Brien & Werner, 1683 Ellis
O'Connor, T. E., 787 Market
Oliver & Foulkes, Flood bldg
Osborn, J. H., Mutual Bank bldg
Paff, Chas. & Co., 1153 O'Farrell
Pare, Aime, 420 Montgomery
Parker, Walter H., 2504 Clay
Pelton, Jno. C., 1767 Geary
Pissis, Albert, Jas. Flood bldg
Perporato, Jno. A., 330 Pine
*Reid Bros., Geary & Stockton
Rommel, B. E., 1849 Fillmore
Righetti & Kuhl, 1946 Post
Rixford, Loring P., 728 Montgomery
Ross, Thos. Paterson, Bush & Laguna
Rousseau, Chas. J., 820 Stanyan
Rousseau, C. M., 2200 Pine
Ryland, C. T., 1443 Fillmore
Salfield & Kohlberg, 1105 G. G. av
Sawyer, Houghton, 1361 Post
Schmuckert, Hy. R., 539 Castro
Schnaitteher, Sylvian, 789 Mission
Sebroepfer, Albert, 222 Sansome
Schulze, Henry A., 604 Mission
Schumacher, Edw. A., Grant bldg
Schwerdt, Philip, 509 Golden Gate av
Sellon & Hemmings, 1045 Geary
Shea, Frank, 1425 Post
Shea, W. D. Co., 350 Larkin
Shermud, Henry, 890 Eddy
Skidmore, Chas. H., 222 Sansome
Skinner, Henry H., 604 Mission
Smith, W. F., 1817 Devisadero
Stanbope, Leon E., Monadnock bldg

[illegible]

CONNECTED WITH
WILSON'S PAPER LETTERS
TABLEY & TICKET CO. CHICAGO

Manufactured
Exclusively by **The TABLET & TICKET CO.**
381 Broadway, NEW YORK 87-89 Franklin St., CHICAGO



THE CUTLER MAILING SYSTEM

IS ONLY INSTALLED UNDER THE CUTLER SERIES OF MAIL CHUTE PATENTS, IS IN USE IN UPWARDS OF 2,000 BUILDINGS AND BEING EXPLICITLY AUTHORIZED BY THE POST OFFICE DEPARTMENT UNDER PROVISION OF AN ACT OF CONGRESS, IS A PART OF THE POSTAL SYSTEM AND LETTERS DEPOSITED

IN IT ARE LEGALLY "MAILED".

IT SHOULD BE SPECIFIED BY NAME WHERE THE STANDARD AUTHORIZED MAIL CHUTE EQUIPMENT IS DESIRED.

DESIGNATE "MODEL C" IF THE VERY LATEST AND BEST FORM AS ILLUSTRATED HERewith IS REQUIRED. INTERIOR UNDER GOVERNMENT LOCK, BUT INSTANTLY ACCESSIBLE TO AUTHORIZED PERSONS.

CIRCULARS, WITH SPECIFICATION FORMS, DETAIL SHOWING SPACE OCCUPIED, ILLUSTRATIONS OF VARIOUS STYLES OF SPECIAL U. S. MAIL BOXES, ETC., WILL BE SENT ON APPLICATION TO THE SOLE MAKERS.

THE CUTLER MANUFACTURING CO.
CUTLER BUILDINGS, ROCHESTER, NEW YORK.



MODEL C

NOTICE

¶ To all advertisers in this publication desiring to send out circular matter, we will pay 15 CENTS for every envelope having upon same the address of any architect correctly taken from our list of architects and "NOT FOUND" BY THE P. O. DEPARTMENT.

¶ This offer holds good until January 1, 1908, provided however that after July 1, 1907, notice of intention to use such list be given one week in advance, so that additions and changes may be forwarded.

S. E. HENDRICKS CO., 74 LAFAYETTE STREET
NEW YORK

NOTE WELL

Architects enjoy the special, constant and FREE USE of our BUREAU OF INFORMATION, as well as all advertisers and subscribers. : : : : : : : : :

Whenever an Architect or Subscriber is at a loss to know the name and address of a Manufacturer of a given article he desires to specify or purchase, this Bureau will, on application, see that his means of access to such Manufacturer are rendered easy, accurate and IMMEDIATE. : : : : :

S. E. HENDRICKS COMPANY

Stenbeht, Arthur, 751 Mission
Stone & Smith, 789 Market
Sutton & Weeks, Mutual Sav. Bank bldg
Tharp, Newton, J., 131 Post
Tobey, Curtis Jr., 9th & Brannan
Traphagen, O. G., 505 Eddy
Trowbridge & Livingston, Post & Leavenworth

Van Tees, Frank S., Monadnock bldg
Vogel, Edward J., 1776 Bush
Weeks, W. H., East & Market
Weiler, Fred G., 2711 Pine
Welsh, Carey & Welsh, 40 Haight
Welsh, Jas. J., 95 Flood bldg
Welsh, Michael J., 2970 22d
Welsh, Thos. J., 40 Haight
White, Robert H., 1252 Haight
Withers, Creighton, 1847 Fillmore
Wood, Fred B., 2211 Steiner
Woodruff, S. II., 1618 Franklin
Woollett, W. L., Monadnock bldg
Wright, Rushforth & Cahill, 571 California
Wythe, Wilson, 927 Market
Young, Edw. E., 621 Golden Gate av
Zwierlein, Casper, 1626 Grove

STANFORD UNIVERSITY—Hodges, Chas. E.

SAN JOSE—Binder, Wm., Auzerrais bldg

Klinkert, Wm., Ryland bldg
Lenzen, Jacob, 75 E St. Clara
Lenzen & Son, 110 S 2d
Page, Geo. W., Auzerrais bldg
Phillips, W. C., 384 N 6th
Wolfe & McKenzie, Smout bldg

SAN RAFAEL—Schlosser, Henry

SANTA ANA—Bithers, A. S.

SANTA BARBARA—Bagley, J. W.

Higginson, A. B.

Nixon, Thos.

Wilson, Francis W.

SANTA CRUZ—Van Cleeck, E. L.

SANTA MARIA—Doom, G. M.

SANTA ROSA—Patton Bros.

STOCKTON—Beasley & Beasley, 222 E Main

Oates & King, Old Salz bldg

COLORADO.

BOULDER—Craig, C. H.

Crockett, T. W.
Redding, Wm. & Son
Saunders, Arthur E.
Shockley, I. T.
Wright, C. H.

CANON CITY—Orme, G. W.

Rittenhouse, C. C.

COLORADO SPRINGS—Barber, T. P., Bank

Bryson, Geo. M., Hagerman bldg
Douglas & Heatherington, Out West bldg
Hastings, Frederic R., 110 N Tejon
MacLaren & Thomas, Bank bldg
Pease, L. A., Reed bldg
Van Den, Arend N., Hagerman bldg

DENVER—Baack, F. M., 808 17th

*Baerresen Bros., Mack blk

Bailey, Howard S., 910 Equitable bldg

Bettecher, Geo. L., Mack blk

Biscoe & Hewitt, 25 E 18th av

*Boal, Theo. D., 100 E 16th av

Child & Chew, Evans blk

Cole, E. M., Commonwealth bldg

Cowe, Wm., 510 Mack blk

De Camp, Lee, 1528 Campan

Dryden, D. W., Temple Court

*Eberley, F. C. Architect Co., Good blk

Edbrooke, F. E. Architect Co., 510 Opera House blk

Edwards, W. Harry, Commonwealth bldg

Fallis & Stein, Colorado bldg

*Fisher, Wm. E. & Bro., Rail. Ex. bldg

Goodnow, Franklin, Bank bldg

*Gove & Walsh, 505 McPhee bldg

Graham, D. McD., Kittredge bldg

Harnois, F. Louis, 100 E 16th av

Huddart, John J., 42 Bank blk

Huntingdon, G. W., McPhee bldg

Jones, Lillian B., Jackson bldg

McConnell, Ernest, 1643 Champa

*Marean & Norton, 1654 B'way

Maydwell, Lawrence R., 384 S Sherman av

Moorman, E. H., Symes bld

*Murdoch, Jas., 610 Mack blk

Phillips & Hess, Jacobson bldg

Preston, C. A., Equitable bldg

Quayle, Chas., Opera House bldg

Reynolds, A. W., Maestic bldg

*Roeschlaub, Robt. S. & Son, 52 King blk

Snell, Frank S., Commonwealth bldg

Stern & Williamson, Jackson bldg

*Varian, E. Philip, Colburn bldg

Wagner & Manning, Majestic bldg

*Wieger, T. Robt., 628 14th

Wilson, Jos., Ferguson bldg

DURANGO—Smith, Silas W.

Tiffany, J. E.

FORT COLLINS—Fuller, M. W.

Garbutt, A. M.

Williams, E. Francis

GLENWOOD SPRINGS—Rosenberg, Theo.

GRAND JUNCTION—Boyer, J. B.

GREELEY—Fouk, S. W. & Son

GUNNISON—Fine, W. J.

HOWARD—Miller, K. H.

LA JUNTA—Kranz Bros.

LOVELAND—Pollock, Edgar A.

MORRISON—Moffat, W. A.

PUEBLO—*Cooper, Francis W.

Gile, J. M.

Mills, P. P.

*Roe, Geo. W.

ROCKY FORD—Burnett & Richardson

SALIDA—†Anderson, C. J.

SILVERTON—Dale, Chas.

TRINIDAD—Burnett, Geo.

Laughlin, John A.

Rapp, I. H. & W. M.

CONNECTICUT.

BRIDGEPORT—Beardsley, C. T., Jr., 155 State

*Briggs, Warren R., 946 Main

Cooper, F. A., 1217 Main

Howe, H. A., Jr., 211 State

Jayne, Anselm F., 152 Frank

Lambert, Hy. A., Fairfield av

Meloy & Beckwith, 23 P. O. Arcade

Northrop, Jos. W., Court Ex. bldg

O'Brien, Jos. A., 778 Washington av

Southey, Ernest G.

BRISTOL—Stewart, C. W.

DANBURY—†Blackman, W. B.

Burnett, Jno. L.

Foster Bros.

Sutherland, Philip

DERBY—Reilly, Dennis E.

HARTFORD—Allen, Isaac A., Jr., 904 Main

Barker, Russell F., 49 Pearl

Bayley & Goodrich, 839 Main

Becker, Willis E., 847 Main

*Brocklesby & Smith

Curtis, H. J., 61 Imlay

Curtis, T. A., 36 Pearl

Davis & Brooks, 49 Pearl

Douglass, Harold W., 39 Pearl

Dwyer, & McMahon, 36 Pearl

Gerstel, Max, 756 Main

Gilbert, George H., 67 Willard

*Hapgood, Edw. T., 401 Trumbull

Johnson, Wm. D., 26 State

*Keller, Geo., 11 Park Terrace

Loeser, Peter, 208 Park

O'Donohue, M., 87 Hawthorn

Peterson, Andrew P., 18 Baltimore

*Scoville, A. W., 756 Main

*Scoville, William H., 720 Main

Sellew, Burton A., 750 Main

Svenson, Chas., 54 Woodbine

Whitmore, Chas. O., 75 Pratt

Whiton, Frank W., 118 Capen

Zunner, Geo., 756 Main

MERIDEN—Bloomfield, David

Jones, H. M.

Palmer, Chas. S.

MIDDLEFIELD—Sibley, H. A.

MYSTIC—Rathbone, John S.

NAUGATUCK—Clark, F. Alton

NEW BRITAIN—Cadwell, Wm. H.

Crabtree, Walter P.

Unkelbach, Max J.

NEW HAVEN—Allen & Williams, 82 Church

Berger, C. E., 29 Nash

Brown, Frank E., Ridge Crest, No. H.

Brown & Von Beren, 865 Chapel

Doherty, Timothy F., 123 Fillmore

Foot & Townsend, 865 Chapel

Joy, Chas. E., 902 Chapel

Richards, B. F., 65 Main, W. H.

*Robinson, Leoni W., 865 Chapel

Sperry & Sellers, 82 Church

NEW LONDON—Donnelly, D. St. C., 94 State

Duffy & George, 81 State

Gilbey & Son

Hazletine, Louis R.

Sweeney, James

NORWALK—(See South Norwalk)

NORWICH—Cudworth & Woodworth, 148 Main

Fournier, Chas. E., 43 B'way

Hiscox, Jas. A., 37 Franklin

Pitcher, Geo. E., 49 Shetucket

Preston, C. H., Central bldg

PUTNAM—Corbin, E. M.

ROCKVILLE—McCrary, J. H.

SOUND BEACH—Frost, Harry Carrington

SOUTH NORWALK—Hoyt, D. E.

Morehouse, Ferris S.

Paddock, A. N.

STAMFORD—Emmons, Nelson

Hallett, Wm. T., Whitney bldg

Inslee, Gage, 152 Glen Brook a v

Marvin, Henry, Burlington Arcade

STRATFORD—Bunnell, R. W.

TORRINGTON—Clinton, G. R.

Racheter, T. A.

Waterbury, E. H.

WALLINGFORD—Becroft, Wm. E.

WATERBURY—Asheim, Leonard

Bailey, Chas. J., Bank

Benedict, E. E., 51 Leavenworth

Duhaime, John B., 95 Bank

Freney & Jackson, 51 Leavenworth

Griggs & Hunt, 51 Leavenworth

Hill, Robt. W., 1 1st av

Peck, Theo. B., 65 Bank

Smith, Joseph T., 36 N Main

Walsh, Louis A., 51 Leavenworth

WETHERSFIELD—Curtis, T. Alden

WILLIMANTIC—Little, W. E.

Powell, Albert H.

DELAWARE.

GEORGETOWN—Jones, C. R.

WILMINGTON—Brinckly, Wm. D., Equitable

Brown, Walter S., Ford bldg

Cloud, Newton H., 838 Market

Hill, Harry A., Ford bldg

Hope & Tissel, 813 Dupont

Rice, Edw. L., Jr., Cor., 815 Market

Seeds, W. C., Gordon Heights

Syphert E., 710 King

Thompson, Jno. D. Jr., Ford bldg

DISTRICT OF COLUMBIA.

WASHINGTON—Ash, Percy, 729 15th, N W

Atkinson, Fred'k G., 1116 F, N W

Beers, Albert H., 717 14th, N W

Bergmark, Leo, Bond bldg

Bibb, Albert B., 808 17th, N W

Blauvelt, Henry J., 918 F, N W

Boal, Theo. D., 1712 H, N W

Bradford, Ben. B., 1336 New York av

Brink, E. P. & Son, 705 12th, N W

*Brown, Glenn, 806 17th, N W

Clark, Appleton P., 605 F, N W

Cooper, George S., 1413 G, N W

Davis, Wm. T., 222 Stewart bldg

Didden, C. A. & Son, Corcoran bldg

Fitzpatrick, Francis W., 4200 Piney Branch

Fletcher, Fred'k A., 619 14th, N W

Fuller, Thos. J. D., 2217 Conn. av N W

Germuiller, Julius, 456 La. av, N. W.

Goenner, Albert, 35 B, N W

Grimm, Nicholas R., 627 F, N W

Hall, Arthur W., 201 2d, N E

Haller, Nicholas T. Co., Corcoran bldg

*Harding & Upman, 729 15th, N W

Harkness, Chas. A., 1026 25th, N W

Heaton, Arthur B., 1319 F, N W

Hensey, Melville D., 1300 F, N W

*Hill & Kendall, Corcoran bldg

*Hornblower & Marshall, 1516 H, N W

Hunter & Bell, 1010 F, N W

Jackson, Frank H., 1419 G, N W

*Keferstein, Carl B., 1204 18th, N W

Kepler, Geo. F., Home Life bldg

Lalor, Jas. D. Co., Munsey bldg

Lankford, John A., 317 6th, N W

Leonard, John D., 1006 F, N W

Leuze, Egon H., 1405 F, N W

Lindsey, Arthur R., Kenilworth

Lloyd, Geo. H., Ellaston ter

Lukel, Reese F., 1944 2d, N W

Mactier, Henry, 1424 New York av, N W

*Marsh & Peter, 520 13th, N W

Medford, Thos. M., 918 F, N W

Meyers, B. Frank, Bond bldg

Milburn, F. P. & Co. (Inc.), Home Life bldg

Mindeff, Victor, 1642 29th, N W

Sonneman, Alex. H., 1413 G, N W
 Spelden & Spelden, 705 G, N W
 *Stead, Robert, 904 F, N W
 Sunderland, Bros., Ouray bldg
 Taylor, James K., Supervising Arch., U. S. Treas. Dept.

*Totten & Rogers, 808 17th, N W
 Turner, Samuel, 626 L, N W
 Vaughn, Merrill T., 627 F, N W
 Vickery, Carl, 1517 3d, N W
 Vogt, Oscar G., Corcoran bldg
 Von Herbulis, Albert O., 1416 F, N W
 Warner, James H., 602 13th
 Webb, C. Edgar, Warder bldg
 Weber, Gustave, 1810 4th, N W
 Webster, Wm. L., 23 Va. av, S W
 Wenig, Julius, 1223 F, N W
 Wood, Donn & Deming, 808 17th, N W
 Wyeth & Cresson, 1517 H, N W
 Woodward, Fred'k J., 2224 F, N W

FLORIDA.

DADE CITY—Roberts, A.
 DE LAND—Davis, M.
 JACKSONVILLE—Burwell & Hillyer, Blum bldg
 Camp, W. B., Livingston bldg
 Hawkins, J. H. W., Laura & Adam
 Holmes & Gilkes, 117 Laura
 Klutho, H. J., 108 W Forsyth
 McClure, Holmes & Nechodoma, 135 Bay
 Norton, Francis J. & Co.
 Talley & Gasser, West bldg
 KEY WEST—†Lowe, B. B.
 Walker, D. B.
 LEESBURG—Campbell, H. L.
 OCALA—MacKay, Geo.
 PENSACOLA—Ausfeld & Blount, Brent bldg
 Bormans, W. A., Brent bldg
 Rendall, J. D., 28½ S Palafox
 Lamar & Fulgham, Brent bldg
 ST. AUGUSTINE—Milburn, C. M.
 TAMPA—Bonfoey, B. C.
 Drake, L. F.
 James, Fred
 Johnson, A. H.
 Miller & Kennard
 Shaw & Jay

GEORGIA.

ATLANTA—Arnold, C. V., 197 Glenwood av
 Arnold, C. V., 197 Glenwood av
 Battle, J. C., Prudential bldg
 Bleckley, H., Empire bldg
 *Bruce, Everett & Hayes, Eng.-Am. bldg
 Butt & Morris, Century bldg
 Carpenter, R. H., Austell bldg
 Chapman, H. K., Empire bldg
 Dougherty, E. E., 313 Chandler
 *Downing, W. T., Prudential bldg
 Dozler, Miss H. C., Peters bldg
 Foote, G. W., 56 Inman bldg
 Golucke, J. W. & Co., 410 Temple
 Jones, L., Century bldg
 Laine, Geo. W., Peters bldg
 McGibbin, G. W., Peters bldg
 MacMurphy & Story
 Marye, P., Equitable bldg
 *Morgan & Dillon, Prudential bldg
 *Norman & Falkner, Candler bldg
 Padgett, B. R. & Son, Candler bldg
 Pugin, B. A., Candler bldg
 Sears, W. H., Candler bldg
 Seiz, E. C. Co., Lowndes bldg
 Smith, C. Walter, 4th Nat'l Bank bldg
 Stewart, Geo. W., Candler bldg
 Thompson, G. C., Candler bldg
 Wachendorff, E. C., Empire bldg
 Walker, A. F., Austel bldg
 Walker, H. L., Candler bldg
 AUGUSTA—Choate, C. E.
 Goodrich, L. F.
 MacMurphy & Story.
 BRUNSWICK—Anderson, W. C.
 COLUMBUS—Dudley, J. F., 1243 6th
 Smith, T. W. & Co.
 MACON—Blair, Alexander
 Dennis, P. E.
 Ellis, C. R.
 Woodruff, D. B.
 ROME—Barnwell, J. G.
 SAVANNAH—Kops, J. deBruyn, Board of Trade bldg
 Nevlt, John J., Board of Trade bldg
 Sugden, Percy, 20 Drayton
 Urban, Henry, Provident bldg
 Wallin & Young, German Bank bldg
 Whitcover, H. W., Nat'l Bank bldg

HAWAII.

HONOLULU—Gill, T.
 Kerr, H. L.
 *Traphagen, Oliver G.

IDAHO.

BOISE—Cartee, Ross
 Tourtellotte, J. E. & Co.
 Ward, C. F.
 Wayland & Fennell
 POCATELLO—Brown, H.
 Grundfor, M.

ILLINOIS.

(Licensed Architects of Illinois.)

ALHAMBRA—Oswald, Fridolin
 ALTON—Nixon, U. S., Bell & 3d
 Pfeifferberger, Lucas, 102 W 3d
 ATKINSON—Milar, Wallace L.
 AURORA—Malmer, Eugene, 249 Grove
 Worst & Shepardson, 341 Coulter blk
 BELLEVILLE—Rubach, Otto W.
 BERWYN—Lees, Wm. J.
 BLOOMINGTON—*Miller, Geo. H., Corn Belt Bank bldg
 Moratz, Paul O., 1st Nat'l B'k bldg
 Pillsbury, Arthur L., Griesbeim bldg
 CAIRO—Jenkins, John S., 1006 Commercial av
 Kusener, Casper, Alex. Co., Nat. Bank bldg
 CARTHAGE—Payne, Geo. W. & Son
 CHAMPAIGN—Brown, Seely, 411 W University
 Case, Jno. W., 211 W University av
 Clark, Chas. R., 409 E Healy
 English, Edw. C., Jr., Ahrens bldg
 Spencer, Nelson S., First Nat. Bank bldg
 Temple, Harry R., Korihar bldg
 Vredenberg, Hacheleah, Illinois bldg
 Whitmeyer, Mark H., Illinois bldg
 CHARLESTON—Maxwell, Benj. R., 411 Harrison
 Mitchell, Chas. D., 16 6th
 CHICAGO—Abbott, Frank B., 164 Dearborn
 Adler, Abraham K., Monadnock blk
 *Ahlslager, John, 70 La Salle
 Allison, Lyman J., 115 Dearborn
 Alloway, Wilmore, Marquette bldg
 Almquist, Carl M., 112 Clark
 Alschuler, Alfred S., Fisher bldg
 Anderson, Peter W., 3801 Vincennes av
 Andresen, Theo., 1335 Belmont av
 Astingstall, Samuel G., 280 La Salle
 Ashby, Geo. Wm., 198 5th av
 Ayars, Chas. R., 90 Washington
 Bacon, Francis T., Atwood bldg
 Bailey, Cyrus, 204 Dearborn
 Baker, Frank S., 204 Dearborn
 Bannister, Geo. S., 1801 W 100th
 Barfield, Wm. G., 87 Washington
 Barnes, Julian, Association bldg
 Barrett, Fred. L., 2695 N 42d av
 Barthel, Julius Bernard, 79 Dearborn
 Barton, Francis M., 169 Jackson boul
 Bauman, Fred'k, 43 Pine Grove av
 Bealey, Wm. J., Monadnock blk
 *Beaumont, George, 115 Dearborn
 *Beers & Beers, Orchestra bldg
 Beller, Henry P., 268 E North av
 Belden, Edgar S., 204 Dearborn
 Bell, Theodore N., 188 Madison
 *Beman, Solon S., Fine Arts bldg
 Bennett, J. T., 1442 Lexington av
 Benson, Edw., 1779 N Clark
 Berger, Albert J., 2133 W 12th
 *Berlin, Robert C., 153 La Salle
 Berndt, F. J. J., 245 Seminary av
 Bessler, Edw. W., 820 W 12th
 Beyer, Oscar, 2865 N Ashland av
 Bishop, Thos. R., 167 Adams
 Blondin, Edward A., 5459 State
 Borst & Hetherington, 100 Wash'n
 Bowen, Howard, 218 La Salle
 Bowes, Fred'k Wm., 1525 N Central Park av
 Brabant, Frank J. E., 79 Dearborn
 Brandt, Berkley G., 9 Jackson boul
 Brantitzky, Wm. T., 79 Dearborn
 Braucher, Ernest N., 2790 W Monroe
 Bright, Jasper T., 160 Washington
 Brinkmann, Wm. J., 163 Randolph
 Brodhag, Louis, 84 La Salle
 Brodhag, Louis R., Jr., 2398 Lakewood av
 Brompton, Jos. C., 154 Lake
 Brooks, Thos. M., 7 Monroe
 Brookes, Wm. J., 218 LaSalle
 Brown, Arthur G., 184 La Salle
 Brown, W. R., 433 Wabash av
 Brueckner, Carl Louis, 152 E North av
 Brush, Chas. E., Monadnock blk
 Buck, Lawrence, Steinway Hall
 Buck, Niels, 145 La Salle
 Buckley, Asbury W., 26 Vanburen
 Buerger, Albert J., Jr., 2133 W 12th
 *Burnham, D. H. & Co., 9 Jackson boul
 Burns, Jas., Chicago Opera House bldg
 Burtar & Gassmann, 138 Wash'n
 Butts, Julius A., 370 S Paulina
 Charvat, Anton, 814 Asbland av
 Chubb, John D., 112 Clark

Church, Myron H., 204 Dearborn
 Church, Walter S., Marquette bldg
 Clark, Robert C., 7216 Harvard av
 *Clay, Wm. W., 218 La Salle
 Cloyes, Fred'k O., Fisher bldg
 *Cobb, Oscar & Son, 85 Dearborn
 Coffin, Arthur S., 109 Randolph
 Cohen, Isadore, Monadnock bldg
 Colcord, Albert E., 108 Dearborn
 Cole, Arthur W., 204 Dearborn
 Coolidge, Chas. A., Borland bldg
 Cowles, Wm. D., 3648 Vincennes av
 Crowen, Samuel N., Borland bldg
 Dart, Whitman, 5656 Monroe av
 Davidson, Frank E., 259 S Clinton
 Davis, Zechary T., 79 Dearborn
 Dawley, Wm. S., C. & E. I. R. R. Co., La Salle Station

Dean & Dean, 218 La Salle
 DeMoney, Frank O., 144 La Salle
 Dennis, Chas. A., 79 Dearborn
 Devine, Nicholas, 4915 Winchester av
 Dibelka, Jas. B., 112 Clark
 Dinkelberg, Fred'k P., 135 Adams
 *Doerr, J. F. & J. P., 138 Wash'n
 Dornfeld, J. F., 134 Vanburen
 Dorr, John L., 7120 Langley av
 Dowling, Edw. F., 140 Dearborn
 Downs, Edwin L., 280 La Salle
 Drummond, Wm. E., 510 N Central av
 Duesing, Theo., 1293 W 22d
 Duncan, John, 79 Dearborn
 Dunning, N. Max, 164 Dearborn
 Durkee, Arthur R., Manhattan bldg
 Dwen, Robt. G., 171 La Salle
 Eckstrom, C. A., 131 LaSalle
 Edbrooke, H. W., 88 Washington
 Egan & Prinderville, 85 Dearborn
 Eichberg, S. Milton, 109 Randolph
 Falls, Alex. P., Rookery bldg
 Ferree, A. G., 404 E 63d
 Fielder, Fred A., 157 Dearborn
 Fischer, Fred'k Wm., 9154 Commercial av
 Fischer, John B., 7455 Parnell av
 Fisher, Albert J., 654 W North av
 Fitch, Frank D., 1735 W North av
 *Flanders, John J., 80 Dearborn
 Flesch, Eugene W. P., 112 Clark
 Fletcher, Robert C., 172 Wash'n
 Flizikowski, John S., 68 La Salle
 Floto, Julius, 26 E Van Buren
 Flower, Harold, C. M. & St. P. R. R.
 Foehlinger, Fred'k, 34 La Salle
 *Foltz, Fritz, 140 Dearborn
 Fortin, Jos. T., 7 Blue Island av
 Foster, Arthur, 9 Jackson boul
 Fowler, Geo. J., 940 Greenleaf av
 Friedline, Fred., 253 La Salle
 Fromman, Emil H., Schiller bldg
 *Frost & Granger, 184 La Salle
 Fry, Frank L. & Co., 134 Monroe
 Fuller, Alex. A., Rookery bldg
 Furst, Chas. J., 172 Washington
 Gall, Wm. F., 79 Dearborn
 Garden, Hugh M. G., Teutonic bldg
 Gardner, Horace C., U. S. Y.; Swift & Co.
 Garnsey, Geo. O., 185 Dearborn
 Gatterdam, Fred. E., 163 Randolph
 Gauger, Wm., 112 Clark
 Gaul, Herman J., 172 Wash'n
 Gerhardt, Paul, Schiller bldg
 Gibb, Wm. R., 169 Jackson houl
 Gilbert, Geo. H., 119 Watt av
 Gillette, Edwin F., 140 Dearborn
 Glidden, Homer W., First Nat'l Bank bldg
 Godfrey, Horace S., Pullman bldg
 Goldberger, Maximilian S., 5248 Prairie av
 Goodman, Wm. C., 1305 W Adams
 Graham, Ernest R., Railway Exchange bldg
 Griesser, Richard, Scibler bldg
 Grotz, Chas. J., 707 Armitage av
 Grussing, Geo. H., 59 Clark
 Gubbins, Wm. F., 685 Ogden av
 Guenzel, Louis, 59 Clark
 Hale, Perley, 132 Clark
 Hall, E. S., 153 La Salle
 *Hallberg, Lawrence G., 84 La Salle
 Hallstrom, Nels, 929 Roscoe
 Handy & Cady, 172 Wash'n
 Hansen, Christian O., 242 Dearborn
 *Hansen, Harold M., 88 La Salle
 Hansen, Paul, 232 Hampden Ct
 Hanson, C. O., 256 Dearborn av
 Harley, Wm., Jr., 125 La Salle
 Harned, Hy. P., Continental Bank bldg
 Harvey, Geo. L., 175 Dearborn
 Harvey, John, 9749 Av H
 Hatzfeldt, Clarence, 143 Dearborn
 Hawk, Albert T., 802 La Salle st Station
 Hecht, Albert, 143 Dearborn
 Heinz, Lorenz H., 78 La Salle
 Hengels, Henry C., 138 Washington
 Herman, O. F. (City Architect), City Hall

Hessenmuccler, Frank W., 225 Dearborn
Hettlich, Albert H., Security bldg
*Hettinger, John P., Journal bldg
Heun, Arthur, Steinway Hall
Higgins, Francis J., 107 Evanston av
*Hill & Woltersdorf, 70 La Salle
Hine, Cicero, 263 Wabash av
Hodgkins, Howard G., 172 Washington
Hoffman, H. Curtis, 6636 Lexington av
Hogenson, Edw. A., 264 N Hoyne av
*Holabird & Roche, 1618 Monadnock bldg
Holden, Ben E., Railway Exch. bldg
Hofmboc, Leonard C., Illinois Steel Co. So.
Chicago

Holmes, Morris G., Hartford bldg
Holzman, Henry K., 98 Jackson boul
Hoskins, John M., 1280 W Madison
Hotton, Bartholomew J., 109 Randolph
Houda, Jos. F., Roanoke bldg
*Huber, Julius H., 171 Wash'n
*Huehl & Schmid, 163 Randolph
Hulla, John, Schiller bldg
Hunt, Jarvis, Monadnock bldg
Hussander, Arthur F., 143 Dearhorn
Ingalls, Arthur R., 6558 Ross av
Jaffray, Henry S., 6249 Kimbark av
Jebson, Ernest, 109 Randolph
Jensen & Mundie, 171 La Salle
Jobson, C. Frank, Pullman bldg
Johnson, Oscar, 119 Sheffield av
Johnston, Jos. S., 359 43d
Johnston, W. K., 184 La Salle
Jyrch, Karl E., 694 Fulton
Kaeseberg, Frank, 770 Sheffield
Kaiser, August, 428 S California av
Kaiser, Otto, 980 N Sawyer av
Kallal, Chas. W., 755 St. Louis av
Karbach, Chas. W., 1096 W Polk
Kelley, Irving W., 79 Dearborn
Kennard, De Witt T., 228 E 63d
Kilroy, Jno. G., 4812 St. Lawrence
Kingsley, George S., 36 La Salle
Kintz, Geo. A. W., 9710 Logan av
Klewer, Wm. L., 109 Randolph
*Kley, Henry T., 214 Milwaukee av
Klopter, David S., 103 Randolph
Klucina, John, 1185 S Homan av
Knapp, Geo. O., 157 Michigan av
Knudson, Johan F., Tacoma bldg
Koenig, Fred, 1656 Gretnahaw
Koll, Henry C., 77 Weed
Koster, John C., 185 Dearborn
*Krause, Edmund R., 73 Monroe
Krieg, Wm. G., 84 Wash'n
Kuehne, Carl Oscar, 171 Centre
Kupfer, Otto A., 904 Millard av
La Belle, Edward C., 607 Thomas
Lang, Albert, 99 Randolph
Lang, Fritz, 700 Milwaukee av
Lang, Louis A., 2611 N 41st Ct
Larmon, Philip, care of Libby, McNeil &
Libby, U. S. Y.

Layer, Robert, 1327 Millard av
Lehle, Louis, 103 Randolph
Levy, Alex. L., 112 Clark
Liedberg, Hugo J., 163 Randolph
Linderoth, S. & Co., 5844 S Elizabeth
Lindquist, Fred'k., 1408 Franklin boul
Llewellyn, Jos. C., First National B'k bldg
Louek, Adolph, Roanoke bldg
Lovell, Sidney, 167 Michigan av
Lowden, Alex. H., 90 Wash'n
Luebkert, Otto, 65 S Clinton
Lund, Anders G., 602 W 63d
McAfee, Chas. H., 36 La Salle
McCall, Thos., 1710 Railway Exchange
McGavick, Jos. P., 17 Van Buren
McMichael, Jno., 6023 Calumet av
McMullen, Henry J., 1618 W 12th
McMurray, Oscar L., 6416 Kimbark av
MacDonald, Fred'k J., 755 W 63d pl
Mahaffey, David, 84 La Salle
*Maher, Geo. W., 218 La Salle
Mahony, Marion L., 281 W Adams
Marhle, Oliver W., Stock Exchange bldg
Marshall & Fox, 164 Dearborn
Martin, Edgar D., 400 Bowen av
*Matz, Otto H., 78 La Salle
Maurer, William, 668 Augusta
Mayo, Ernest A., 204 Dearborn
Mead, Dan'l W., 1st Nat'l Bank bldg
Meissner, Henry, 92 N Central pk av
Meldahl, Jens J., 77 Fowler
Merrick, Harry A., 46 Palmer av
Metcalf, John S. Co. (Grain Elevator, etc.),
Womeu's Temple

Miller, Jos. A., 59 Clark
Miller, William C., 69 S 41st av
Mitchell, Louis M., 145 La Salle
Mollitor, Jos., 160 Wash'n
Morey, Arthur G., 145 La Salle
Morehouse, M. J., 702 Fisher bldg
Morrell, John & Son

Mosher, E. Bradford, 5830 Rosalie Ct
Mueller, Herman, 561 S Ashland av
Mullay, Thos. H., Monadnock blk
Murphy, John H., Fisher bldg
†Neebe, Jno. K., 598 W Chicago av
Neilsen, Carl, 450 37th pl
Nelson, Edward O., New York Life bldg
†Neebes, Geo. S., 159 La Salle
Nettenstrom, Joel U., Borland blk
Newberry, Robert Thorne, 184 La Salle
Newell, Frank V., 78 La Salle
Newhouse, Henry L., 4630 Prairie av
Newman, Edgar M., Stock Exch. bldg
Newman, Wm. L., 909 Jackson boul
Nicholson, Jos. T., 6112 Lex. av
Nicholson, Wm. A., 6541 Greenwood av
Nienz, Arthur R., 1511 Bradley pl
Nimmons & Fellows, 204 Dearborn
Norman, Andrew E., 3575 N Clark
Norton, Francis, Kenmore av, Edgewater
Nothnagel, Chas. W., 914 W 67th
Novy, Ludwig, 1618 W 22d
Nyden, John A., 972 Summerdale av
Ohlhaber, Wm., 134 Park
Ohrenstein, E. J., First National Bank bldg
*Otis, Wm. A., 175 Dearborn
Ottenheimer, Henry L., Fort Dearborn bldg
Packard, Allyn A., 204 Dearborn
Pagels, Wm. F., 34 Clark
*Palmer, C. M., 1207 Monadnock blk
Pashley, Alfred F., Manhattan bldg
*Patton & Miller, 140 Dearborn
Pentecost, D. S., 119 La Salle
Pentecost, Douglas S., 119 La Salle
Perkins & Hamilton, 140 Dearborn
Perkins, Fred'k W., 46 Van Buren
Pfeiffer, Geo. L., 1106 W 12th
Phillips, Rogers & Woodyat, 1615 Ashland
Pistorius, Henry, Tribune bldg
Pleins, Leo H., 238 Winthrop av
Pond & Pond, 17 Vanburen
Pope, John Francis, 708 Sawyer av
Postle & Mahler, 204 Dearborn
Poulson, Edw. Ja., 1442 N Mozart
Powers, Horace S., Steinway Hall
Poyer, A. & Son, 10536 Vincennes rd
Pridmore, John E. O., 164 Dearborn
Probst, Edward M., 794 Millard av
Pruyn, Wm. H., Jr., 4217 Berkeley av
Pursell, Geo. G., 1311 W Monroe
*Quackenboss, Leonard G., 108 5th av
Rae, Robert, Jr., 4935 Champlain av
Raeder, Henry, 77 Jackson boul
Randak, Frank, 59 Clark
Randolph, Smith M., Security bldg
Rapp, Cornelius Ward, 100 Wash'n
Rapp, Geo. Leslie, Majestic Theatre bldg
Rawson, Lorin A., Rookery bldg
Renwick, Edw. A. (See Holabird & Roche),
Monadnock blk

Reynertson, Theis J., 1082 N 40th av
Rezny, James B., 1430 Millard av
Rich, Evert, 10420 Prospect av
Richards, Henry H., 134 Van Buren
Riddle, Herbert H., 164 Dearborn
Riddle, Lewis E., 164 Dearborn
Riegert, Emil, 74 Racine av
Rinn, Chas., 2629 N Lawndale av
Ritter, Louis E., Marquette bldg
Robertson, David, 107 Randolph
Robinson, Argyle E., 84 La Salle
Rohm, Jean Baptist, 360 Armitage av
Rosenthal, Alex. B., 125 Walnut
Rouleau, Arthur, First National Bank bldg
Roy, Franz, 275 92d
Runde, Otto, 119 Rice
Rusey, Anthony F., Tribune bldg
Russell, Lewis E., 5409 Washington av
Sandegren, Andrew, 164 Dearhorn
Saxe, Ira C., 163 Randolph
Schauh, Lewis J., 717 N Campbell av
Schenck, Rudolph, 157 Michigau av
Schlacks, Henry J., Borden blk
Schmidt, Richard E., 172 Washington
Schmidt, Hugo, 285 Fremont av
*Schock & Swanson, 164 Dearborn
Schroeder, Wm. H., 192 W 22d
Schroeder, John M., 99 Randolph
Schoenfeldt, Frank, 1755 W 12th
Schuherth, Geo. F., 568 Sheffield av
Schultz, Martin, 784 W 21st
Schulze, Wm., 1156 Milwaukee av
Schweizer, Jos., 99 Randolph
Seater, Sinclair M., 105 Washington
Shannon, James S., Old Colony bldg
Shankland, Edw. C., The Rookery
Shattuck, Walter F., 218 La Salle
Shaw, Howard Van Doren, 175 Dearborn
*Shepley, Rutan & Coolidge, 84 Van Buren
Shipman, Stephen V., 240 LaSalle
Sierks, Henry, 40 Dearborn
*Silsbey, Jos. L., 115 Dearborn
Smith, Robert S., 185 Dearborn

Smith, Sidney, 1697 N Sacramento av
Snyder, Edw. E., Stanley ter
Somers, Elbert S., 4192 Lakewood av
Sorenseu, Chas. F., 660 N Maplewood av
Spencer, Robt. C., Jr., 17 Van Buren
Speyer, J. & Son, 172 Washington
Spitzer, Morris, Tacoma bldg
Spohr, Geo. S., 132 Seigle
Stanhope, Leon E., 184 La Salle
Stebbins, Walter L., Monadnock blk
Steuben, Theo., 858 School
Stevens, C. Whitney, 109 Randolph
Stevens, Harry E., 2146 W Monroe
Stoddard, Edw. B., 150 S Homan av
Stone, Jno. R., 140 Dearborn
Strandel, Chas. A., 134 Monroe
*Strippleman, William, 153 La Salle
Sturm, Meyer J., 84 La Salle
Sturnfield, Chas. H., 1239 W 21st
*Sullivan, Louis H., Auditorium Tower
Sutcliffe, John, 218 La Salle
Swern, Wm. C., 101 Wash'n
Tallmage, Thos. E., Security bldg
Thain, Joseph A., 3152 Prairie av
Thisslew, Chas., 451 Milwaukee av
Thomas, Wm., 163 Randolph
Thomsen, Fred'k W., 46 Seminary av
*Tilton, John N., 112 Clark
Tomlinson, Henry W., 17 Van Buren
Townsend, Fred'k B., 218 LaSalle
*Treat, Samuel A., 279 Dearborn
Turnock, E. Hill, 92 La Salle
Van Keuren, Chas. W., 125 La Salle
Van Keureu, Wm. J., 78 La Salle
Van Osdal, Jno. M., 225 Dearborn
Viehle-Naess, Ivar, 1994 Kenmore av
Vigeant, Gregory, 16 Astor
Voight, Gustav, 3220 S Causal
Von Holst, Herman V., Rookery bldg
Waful, Edw. E., 204 Dearhoru
Wagner, John H., 107 Dearborn
Walker, Wm. E., 168 Michigan av
Walter, Wayne M., 112 Clark
Waterbury, Chas. D., Steinway Hall
Waterman, Harry H., 218 La Salle
Watson, Vernon S., Security bldg
Watson & Hazelton, 305 Dearborn
Weary, Chas. A., 92 La Salle
Weatherhogg, Chas. R., Hamilton Nat. Bank
Weber, Alfred P., 172 Wash'n hldg
Weber, Peter J., Fisher bldg
Wegman, Jules F., 1558 George
Wegman, Julius, 571 N Clark
Wheeler, Chas. F., 2862 W 46th ct
Wheelock, Harry B., Schiller bldg
*Wight, Peter B., 138 Washington
Wilkowski, Jos. A., 1177 N Leavitt
Williamson, Robert B., Tribune bldg
Williamson, W. G., 153 La Salle
Wilmanns, August C., 7 Monroe
*Wilson, Horatio R., 218 La Salle
Wing, Thos. W., 185 Dearborn
Winslow, Benj. E., 5411 Ridgefield ct
Witherspoon, Jno. M., Monadnock blk
Wittekind, Harry, 85 Dearborn
Woerner, Adolph, 217 Centre
Worthmann & Steuback, 625 W Chicago av
Wright, Harvey, Cham. of Com. bldg
Wright, Willis J., Armour & Co., U. S. Y.
York, John D., 522 N Clark
Youmans, Wm. A., 115 Dearborn
Youngberg, John E., First National Bank
Zarbell, Iver C., 97 Clark bldg
Zatterberg, Martin, City Hall
Zimmermann, Alhert G., Home Ins. bldg
Zimmerman, Hugo H., 1279 Perry
*Zimmerman, W. Carlys, 21 Van Buren
Zippwald, Otto P., 2284 N 42d Court

COLLINSVILLE—Eberhardt, Henry W.
DANVILLE—Garrett, Urias E., 112 N Vermil-
lion

Lewis, Chas. M., Masonic Temple bldg
Liese, George C., Y. M. C. A. bldg
Ludwich, George W.
McCoy, Jno. F., First Nat'l Bank bldg
Skadden, Edw. W., 906 Oak
Stuebe, Leon, F. W.
DECATUR—Babcock, Brazillia B., 770 Johns av
McNabb, Wm. O., 403 N Main
Patterson, Melville G., Fenton bldg
Rosen, R. O., Review bldg
DE KALB—Marston, Louis H.
DELEVAN—Connell, Richard D.
DE PUE—Jones, Frederick W.
DIXON—Vail, Morrison H.
EAST ST. LOUIS—Frankel, Albert B., 208
Collinsville av

Kennedy, Jno. W., Arcade bldg
Mueller, B. A., 133 N 3d
Pfeifferberger, Geo. D., Sexton bldg
Riester, Frank P., Ins. bldg
EDWARDSVILLE—Pauly, Chas.
ELGIN—Abell, W. Wright, & Ralph Elliott,
Home Bank bldg

Elliott, W. E., 426 S Liberty
Hoag, Smith, 36 Union
Morris, G. E.
Turnbull & Jones, rm. 10, McBride bldg
ELMHURST—Griffin, Walter B.
EVANSTON—Blake, Edgar O., 620 Davis
FREEPORT—Dustman, Urlas M.
GALESBURG—Aldrich, Norman K.
Beadle, Jno. Grant
GENESEO—Okeberg, Jno. V.
GRANITE CITY—Kltsner, Theo. C.
Pauly, Edward C.
HARRISBURG—Craine, James A.
JACKSONVILLE—Buckingham, C. W.
*Coleman & Pierson, 232½ W State
JOLIET—Barnes, John H., 634 Van Buren
Boehme, Hugo, 101 Ottawa
Cowell, Herbert, Jefferson st
Hoen, Rudolph G., Braun-Kiep bldg
Wallace & Wallace, Wallace bldg
Webster, Chas. Woods, Cutting bldg
KANKAKEE—Henry, Chas. D., 26 Arcade bldg
KEWANEE—Eckland, Henry, 218 N Tremont
McCullough, Jno., 107 3d
LA GRANGE—Krausch, Walter T.
LA SALLE—Matteson, Victor Andre
LINCOLN—Corwln, W. A., 203 4th
Deal, Joe Mldert, Obcamp bldg
Glnzel, Roland F.
Simpson, John A., 100 Chicago
MACOMB—Fuhr, Jno. H.
Holmes, Willis B.
METROPOLIS—Houts, Wm. T.
MOLINE—Cervin, Olof Z., Wesel bldg
Drury, Clair F., 517 15th
Eckerman, Oscar A.
Whitsitt, H. W., 422 16th
Whitson, Milton J.
MOUNT MORRIS—Buser, Nathaniel E.
OAK PARK—Fiddelke, H. G., 210 W Lake
Fyfe, Jas. I., 417 Home av
Hartigan, Wm. B., 429 N Cuyler av
Roberts, Eben Ezra, 101 Marion
Poulson, Geo. F., 643 N Elmwood av
Thompson, F. D., 111 Marion
White, Chas. E., Jr., 321 Euclid av
Wright, Frank L.
OTTAWA—Richardson, Jason F., Jr., 316 Ar-
PEKIN—Zimmer, John E. mory blk
Zimmer, Jno. E.
PEORIA—Baillie, Jno. McLellan, Y. M. C. A.
Davis, Geo. H., 411 Perry av bldg
Emerson, Frank N., 905 N Jefferson
Hewitt, Herbert E., 24 Arcade bldg
Hotchkiss, Robert J., Dime Savings Bank
Jobst, Valentine, Jobst bldg
Klefer, Albert, Woolner bldg
Klein, Fred'k J., Arcade bldg
Koch, Wm. J., 111 Missouri av
Parr & Hulsebus, Y. M. C. A. bldg
Shank, Jno. Adam, Observatory bldg
Todhunter, Robinson L., 818 5th av
Whitford, Sylvanus G., 915 4th av
PERU—Wachter, Henry F.
POLO—Ruth, Thos. F.
PONTIAC—Hercules, Jacob W.
Young, Richard A.
PRINCETON—Alpaugh, Nicholas G.
Bryant, Jos. P.
QUINCY—Batschy, Jno., Wells bldg
Behrensmeyer, George P., 530 N Main
Chatten, Harvey, Wells bldg
Gelse, Martin J., 421 N 12th
Ledebrink, Fred C., 32 Schotts bldg
Wood, Ernest M., Musselman bldg
ROCKFORD—Bradley, Chas. W., Brown bldg
Carpenter, F. A., Brown bldg
Keyt, Wm. R., State & Main
Schureman, David S., 220 S Main
ROCK ISLAND—Borgolte, Fred'k F., 712 4th
Drack, Leonard U., 18th & 2d av
Stauduhar, Geo. P., 318 20th
ROGERS PARK—Melin, Chas. W.
SANDWICH—Howison, Charles
SPRINGFIELD—Aschauer, C. J., 502½ E Adams
*Bullard, S. A. & R. A., 5th & Capital av
*Conway, Wm. H., 104 East Side sq
Furrow, Edw., Hagler bldg
Hamilton, Frank H., City Hall
Hanes, Samuel J., 205 S 6th
*Helmle, Geo. H., 430 S 5th
Kinaker, J. I., Franklin bldg
Shinn, C. W., 714 S 5th
STERLING—Van Horne, P. T.
Wetherbee, Chas. E.
STOCKTON—Goodmiller, Preston V.
STREATOR—Allen, Alonzo W., 121 E Main
Field, Geo. W. E., Masonic Temple
UPPER ALTON—Stelle, Oliver G.
URBANA—Ricker, N. C., Engineering Hall
Royer, Jos. W., Stephenson bldg
White, Jas. M., Engineering Hall

WAUKEGAN—Minnott, Jno. E.
Saenger, Louis P.
Worsfold, Ira A., Dodge bldg
WILMETTE—Rogers, Jno. Arthur

INDIAN TERRITORY.

ARDMORE—Bennett & Matthews
Kelly, W. H.
White, J. B. & Co.
BARTLESVILLE—Everman, Walton
CHICKASHA—Coady, E. & CO.
DURANT—Stevens, W. A. & Co.
HUGO—Glenn Bros.
McALESTER—Bergeron, Narcisse
Smith & Parr
MUSKEGEE—Cunliff, Benjamin
McKibban & McKibban
Sudhoclter, Chas. H. & Co.
Van Dyke, V. B.
Wheeler, L. A.
SULPHUR—Kaufman, D. P. & Son
TULSA—Clifton, L. P.
Stewart, C. W.
Wilson, C. Lewis
WELEETKA—McKlemurry, L.

INDIANA.

ALEXANDER—McGuire, Jas.
ANDERSON—Duncan & Wright
Jeckel, P. F.
La Belle, Peter
Meckel, Jno.
BEDFORD—Kilroy, John G.
Pritchett, Milton C.
BLOOMINGTON—Nichols, Jno. L. & Son
Spriggs, Henry
BLUFFTON—Powers, W. H.
BRAZIL—Steevanart, Gustav
COLUMBUS—Dunlap, Elmer E.
CRAWFORDSVILLE—Griffith, Geo. T., 812 W
Sharpe, W. F. Main
CROWN POINT—Knight, F.
ELKHART—Dalrymple & Thomson
EVANSVILLE—Harris & Shoppell, 123 E 4th
Johnson, Clarke E., 202 U 4th
*Schlotter, Frank J., Dickman bldg
FORT WAYNE—*Allen, Frank F., Elektron
Bradley, R. A., Eleston bldg bldg
Kendrick, Chas. E., Flick bldg
*Mahurin & Mahurin, Swinney blk
Meyer, Henry, 108 Calhoun
Riedel, J. M. E., Schmltz blk
Weatherhogg, Chas. R., Hamilton Nat'l
Bank bldg
*Wing, John F., Pixley-Long blk
GOSHEN—Arthur, James A.
GREENSBURG—*Dillie, Edw.
HAMMOND—Bump, E. W.
Hutton, J. T.
HARTFORD CITY—Brown, J. L.
HUNTINGTON—Mohler, A. D.
INDIANAPOLIS—Alexander, J. F. & Son,
Lemcke bldg
Allen, Layton, Lombard bldg
Barber Wm. E., 37½ E Washington
Bartel, Samuel G., 730 Germania av
Bass, Herbert L. & Co., Indiana Pythian
Bedell, Geo. V., Law bldg bldg
*Bohlen, D. A. & Son, Majestic bldg
Brubaker, H. C., Wash'n boul & 30th
Brubaker & Eldridge, Aetna bldg
Byfield, Chas. H., Law bldg
Church, Andrew S., 2323 Adams
*Daggett, R. P. & Co., Lemcke bldg
Dark, Stephen C., Lombard bldg
Dunlap, Elmer E., State Life bldg
Dupont & Hunter, State Life bldg
*Foltz, Herbert, Union Trust bldg
Gardiner, J. Ira, Central Trust bldg
Gibson, Louis H., Law bldg
Glossop & Hunter, Indiana Trust bldg
Hastings, Samuel A., Central Trust bldg
Hendrickson & Van Armen, Union Trust bldg
Hollingsworth, John G., 1023 W 27th
Johnson, Jesse T. & Co., State Life bldg
Krutsch, C. A., 84 Middle Drive, W P
Langbein, Theo., Baldwin bldg
McCune, Mervin H., 1405 Woodlawn av
Martindale, Clarence, Aetna bldg
Moore, W. Scott & Co., Unity bldg
Morris, Chas. O., 1041 Udell
Mueller, Chas. G., Talbot blk
Rubush & Hunter, Amer. Cent. Life bldg
*Scherrer, Adolph, Indiana Trust bldg
Staples, Wm. A., Baldwin bldg
Stem, John H., Claypool bldg
Traylor, Marion H., 14 When blk
*Vonnegut & Bohn, Indiana Trust bldg
*Wallingford, Chas. A., 152 E Market
JEFFERSONVILLE—Holzbog, Geo. H. & Bro.
KOKOMO—Bruff, James F.

LA FAYETTE—*Alexander, Jas. F. & Son, 4th
& Main
Bonstra, J. A. & Co., Nat. Fowler B'k bldg
*Brown, Geo. S., 306 Ferry
LAPORTE—Allen, G. W.
Wainscott, Joseph
LOGANSPOUT—Cook, Jas. A.
Crain, Jos. E.
Horn, Carl J.
MARION—Elder, Hiram
French, Burt L.
MUNCIE—Grindle & Byrne, 420 S Mulberry
Keelor, Geo. H., 1 Boyce blk
Klbele, Cuno, Johnson blk
Westlake, Chas. S., 404 E Charles.
NEW ALBANY—Moosemiller, Paul E.
RICHMOND—*Hasecoeter, John A., Colonial
bldg
Kaufman, Wm. S., Kelley & Hutchinson blk
Marlatt & Mansfield, Colonial bldg
Yates, Stephen O., Grand Hotel bldg
SOUTH BEND—*Adelsperger, Roland, Dean
bldg
Brehmer, C. A., American Trust bldg
Ennis, Seeber S., 208 N Main
Freyermuth & Maurer, 138 N Michigan
*Schneider & Austin, 110 W Jefferson
Teepie & Young
SYRACUSE—Kingsley, W. M.
TERRE HAUTE—Ballentine, J. W., Opera
Floyd, W. H., 656 Wabash av House
Gault, James C., Rose Dispensary
Padgett, Chas., Opera House
Scott, Charles E., McKeen blk
Sherman, James Merrill, 1504 2d av
Vrydag, J. G., 705 Ohio
Vrydag, Robt. T., McKeen bldg
TIPTON—Porter, S. J.
UNION CITY—Gettinger, W. H.
VINCENNES—Gaddis, John W.
WABASH—Risser, Christian
WARSAW—Vanator, W. S.
WILLIAMSPORT—Fox, John
Lewis, P. W.

IOWA.

AMES—Connell, Richard D.
BOONE—Edwins, C. E.
BURLINGTON—Goddard, H. I.
Nelson, C. N.
Washburn, G. H.
CARROLL—Hart, Sanford P.
CEDAR FALLS—*Robinson, W. A.
CEDAR RAPIDS—Dieman & Fiske, Granby blk
Fulkerson, W. A., Old P. O. blk
*Josselyn & Taylor Co., 213 S 3d
Richards, D. W., 217 S 2d
CENTERVILLE—*Staley, B. S. Co.
CHARITON—Houghland, O. A.
CHARLES CITY—Campbell, Arthur
CHEROKEE—Stoddard, Chas.
CLINTON—Morrill, John & Son
COUNCIL BLUFFS—Cox & Schoentgen
Woodward, J. C. & W.
DAVENPORT—*Clausen, Fred. G., Central bldg
*Hammatt, Edw. S., Whitaker bldg
Hanssen, Gustav A., Schmidt bldg
Ross, John W., 212 Brady
Spink, Chas. R., McManus bldg
Temple, Burrows & McLane, McManus bldg
DECORAH—Bucknell, Wm. S.
DENISON—Barber, Edgar L.
DES MOINES—Barton, Wm. C., Youngerman
Cross, C. C. & Sons, Good blk bldg
Hallett & Rawson, 615 Walnut
Liebbe, Nourse & Rasmussen, 724 Walnut
Parsons, W. R. Co., 317 E 5th
Proudfoot & Bird, Crocker bldg
Smith & Wetherell, 300 Youngerman blk
DUBUQUE—Beck, Guido, 8th & Main
Carkeek, Thos. T., Lincoln bldg
*Heer, F. & Son, 325 8th
Heer, Martin, 13th & Clay
*Spencer, John, Bank & Ins. bldg
ESTHERVILLE—Cox, Jas. S.
Jeffers, A. M.
FORT DODGE—Albright, J. H.,
Griffith, Frank W.
Reely, T. W.
HAMPTON—Boutin, C. W.
INDEPENDENCE—Netcotte & Donnan
IOWA CITY—Carpenter, O. H.
*Wickham, B. A.
KEOKUK—Ratcliffe, H. E.
MARION—White, L. E.
MASON CITY—Bogardus, E. R.
Connor, T. H.
MUSCATINE—Zeldler, H. W.
OSAGE—Stoughton, G. A.
OSKALOOSA—Wetherell, Frank E.

OTTUMWA—Felder, Frank, Summer's bldg
Kerns, Geo. M., Electric bldg
Koch, Ernst, Hofmann blk
Reese, W.
Teeter, Reuben, 13, 113 E Main
SIOUX CITY—Beach & Steele, United Bank
Burkhead, G. W., Iowa Sav. Bank bldg
Dickey, T. J., Swazey bldg
Eisenbraut, Olby, Pottinger Co.
*Fisher, Henry, United Bank
Reinecke & Jenkinson, United Bank
VINTON—Sutton, M. S.
WATERLOO—Murphy & Ralston
Shaw & Shaw
Stewart, John H.
Stewart, William C.
WAYLAND—Schwartz, C. K.
WEBSTER CITY—White, J. R.
WHAT CHEER—Palmer, J. N.

KANSAS.

CHANUTE—Roberts, James
COFFEYVILLE—Colby, Geo. S.
Hair & Smith
EMPORIA—Squires, Chas. W.
FORT SCOTT—Gardner, Jno. H.
Huff, Walter S.
GLASCO—Dalrymple, J.
Olmstead, J.
HAYS CITY—Wolfe, G. R.
HUTCHINSON—De Pry, D. T.
INDEPENDENCE—Bender, F. N.
Ellis, H. G.
OLA—Hair & Smith
KANSAS CITY—Bowman, Chas. S., 524 Minn
Harris, Wm. E., Portsmouth bldg
Langworthy, F. W., 425 Minn. av
LAWRENCE—Haskell, Jno. G.
Nadelhoffer, Wm.
LEAVENWORTH—Feth, Wm. P.
NEWTON—Ross, W. L.
SAGE CITY—Churchill, J. M.
TAWA—Washburn, Geo. P. & Son
PARSONS—Kallaus, J. A.
TITTSBURG—Munn, C. J.
*Seeley, J. H. & Co.
ALINA—Crawford, C. D., 117 S 7th
Wilmarth & Zerbe, 146 S Santa Fe av
TOPEKA—Hadley, H. M., 501 Jackson
*Haskell, J. G., 112 E 5th
Holland & Squires, 734 Kansas av
Lescher, Theo. H., 920 Monroe
Marshall, Joseph, 115 W 5th
*Stanton, J. F., 112 E 5th
Traver, F. M., 915 N Polk, N Topeka
Wood, L. M., 629 Kansas av
VAMPEGO—Chadwick & Rawson
VICHITA—Crist, John J., 142 N Main
Hunter, Leon A.
Simms, J. A., 1732 Ida av
Parsons, W. F., Bitting bldg
VINFIELD—Van De Water, J.

KENTUCKY.

BOWLING GREEN—Fleenor, C. M.
Underwood, Robert
OVINGTON—Ashley, E. H., 1053 Scott
Dohrmann, Geo. F., 17 E 18th
Walker, Lyman, Farmers & Traders Bank bldg
YNTHIANA—Stevens, Joseph R. & Co.
RANKFORD—Oberwarth, Leo L.
ENDERSON—Trible, E. S.
IOPKINSVILLE—Long, James L.
EXINGTON—Aldenburg, H. W.
*Rowe, H. L.
LOUISVILLE—Albus, E. E., Paul Jones bldg
*Clarke & Loomis, 502 4th
Collins, Val. P., 515 4th
Cullen, Richard, 1004 Clifton av
Curtin, C. A., Columbia bldg
Davis, Brinton B., Masonic bldg
Erhart, Fred., 358 4th
Gaffney, J. J., 455 W. Jeff.
Hallenberg, Adolph, 303 W Main
Hays, Harvey G., Equitable bldg
Hitchings, Geo., Equitable bldg
Hoffer, Jno., 723 Underhill
Hutchings, J. B., Columbia bldg
M'Donald & Dodd, Equitable bldg
*Maury, Mason & Co., Board of Trade bldg
Meyer, Chas. D. (Est. of), Keller bldg
Murphy, D. X. & Bro., 250 5th
Orsini, Lorenzo, 216 5th
Reuter, O. P., 253 5th
Sheblessy, J. F., Commercial bldg
Shryock, C. G., 418 Centre
Smith, Arthur R., Norton bldg

Thomas & Bohne, Keller bldg
Wilson, M. Q., 5th e Main
Wolters, Henry, Board of Trade bldg
Wischmeyer, Herman, Kenyon bldg
MOUNT STERLING—Williams, E. L.
NEWPORT—Wilson, Louis H., 10 W 4th
Wright, Jas. C., Jr.
NICHOLASVILLE—Askens, Samuel
Horin, E. E.
Murphy, J. H.
PADUCAH—Brainerd, Wm. L.
Lassiter, A. L.
Schmidt, O. D.
SHELBYVILLE—Gruber, L. H. & Sons
VANCEBURG—Alden, Samuel

LOUISIANA.

BATON ROUGE—Charlton, Chas. H., Jr.
Goodman, B. J.
COVINGTON—Jenkins, Chas. & Jno. L.
JEANERETTE—Lloyd, C. B.
LAFAYETTE—Anderson, B. F.
Morton, A. E.
Nicholson, W. L.
NEW IBERIA—Phillips, E. W.
Southwell, W. D.
NEW ORLEANS—Andry & Bendernagel, 211
Camp
Broyard, Paul, 915 N Dupre
Brune, Theo., 319 Carondelet
Bryan, Andrew J., Hennen bldg
Burton, Hayward L., 137 Carondelet
Collon, Frank & Co., 316 Baronne
Crosby & Henkel, Morris bldg
Dannenmann & Charlton (Ltd.), 316 Baronne
Daunis, Fred'k, 137 Carondelet
De Buys, Levy & Co., Hibernia bldg
Del Isle, Chas. G., 317 Carondelet
Diboll & Owen (Ltd.), 217 Baronne
Dietel, Hans A., 4728 Constance
Dimitry, Ernest L., 433 Carondelet
Drennan, A. W., 211 Camp
Duval, Southron R., N. O. Nat. Bank bldg
Favrot & Livoudais, 839 Gravier
*Fitzner, Wm., 325 Camp
Fulham, Wm. F., 2128 Berlin
Ganter, Louis A., 1831 Palmyra
Gazin, Jas. J., 2914 Cleveland
Geary, James, 327 Carondelet
*Geary, Walter N., Hennen bldg
Graveley, Frank P. & Co., 320 Carondelet
Hay, Alex., 127 Carondelet
Henry, Jno., Hennen bldg
Kaiser, Wm. P., 727 Common
Keenan & Weiss, Hibernia Bank bldg
Koch, Julius, 219 Carondelet
Lagasse, Paul, 826 9th
*McCarthy, Richard, Jr., 219 Baronne
McNally & Mullaney, 833 Bordeaux
Mackenzie, Goldstein & Biggs, N. O. Nat.
Bank bldg
Markel, Edwin L., 5120 Constance
Moise, Abram H., 319 Carondelet
Patterson, Ebbin B., 228 St. Charles
Rolland, F. J., 220 S Galvez
Soule & MacDonnell, Hennen bldg
Stone Bros., Hennen bldg
Sully, Thos., Morris bldg
Tetu, Maurice, 1829 Terpsichore
Thompson, Thos. M., Hennen bldg
*Toledano & Wogan, 830 Canal
Well, Emile, Hibernia bldg
Williams, C. Milo, Hennen bldg
SHREVEPORT—Allen & George
Armstrong, A. J. & Co.
Bridges, Perry
Glick, E. F.
Kendrick, M. M.
King, Clarence W.
Snyder, John Y.

MAINE.

AUGUSTA—Wing, A. G.
BANGOR—Crowell, C. Parker
Cutler, L. W.
Davis & Hodgkin
Hodgins, Victor
Mansur, W. E.
Patterson, Fred'k A.
BAR HARBOR—Clark, J. E.
Denby & Nute
Savage, Fred L.
Stratton, Milton W.
Watson, F. C.
GARDINER—Blanchard, Fred W.
KENNEBUNK—Barry, Wm. E.
LEWISTON—Coombs & Gibbs
Coutmont, Noel
Miller, W. R.
Wheeler, C. R.

PORTLAND—Burnham, Geo., 120 Exchange
Cunningham, J. J., 390 Congress
Fassett, F. H. & E. F., 93 Exchange
Lane, Calvin S., 536 Congress
Pease, Austin W., 11 Exchange
*Stevens, John Calvin & John Howard
Tompson, Fred'k A., 156 Free
SKOWHEGAN—Chaney, H. W.
WATERVILLE—Butterfield, Wm. M. Co.
Gilman, H. Lawson
YORK VILLAGE—Blaisdell, E. B.

MARYLAND.

BALTIMORE—Anderson, Chas. M., 324 N
Charles
Anderson, Clarence E., Law bldg
Archer & Allen, Central Sav. Bank bldg
Baldwin & Pennington, 330 N Charles
Beall, Fred. E., 213 St. Paul
Beecher, Friz & Gregg, 11 Pleasant
*Brauns, Henry, Professional bldg
Carroll, T. George, Continental bldg
*Cassell, Chas. E. & Son, Law bldg
Clothier, Geo., Jr., Hoffman bldg
Crisp, Herbert G., Calvert bldg
Davis, Frank E. & Henry R., 220 St. Paul
Eckstine, J. Edmund, 20 E Lex
Ellicott & Emmart, Union Trust bldg
Emmart, Paul, 210 W Fayette
Emory, Wm. H., Jr., Professional bldg
Flournoy, Park P., Jr., 1424 Madison av
Forrest, A. Lowther, Professional bldg
Forsythe, John R., 232 St. Paul
Frederick, Geo. A., The Shirley
Freund & Crawford, 210 E Lexington
Gerwig, Jacob F., Hoffman bldg
Ghequier, T. Butler, 227 St. Paul
Glidden, Edward H., 16 St. Paul
*Gott, Jackson C., Hotel Caswell
Hallowell, Lewis M., 5 E Mulberry
Hampson, Walter M., 207 St. Paul
Haskell & Barnes, Wilson bldg
Hodges, Wm. H., 226 W Monument
Hornblower & Marshall, Nat. Marine Bank
*Kennedy, T. C., Law bldg
Laferty, J. Edw., 11 Pleasant
Levi, Louis, American bldg
McLaughlin Bros. (Inc.), 100 E Lexington
Mackenzie, G. N., Keyser bldg
Margruder, Hugh S., 11 Pleasant
Minor, W. L., 20 Clay
Morris & Clifford, Equitable bldg
Mottu & Whyte, Professional bldg
Nagle, Geo. A., 11 Pleasant
Nussear, J. S., Jr., Professional bldg
O'Brien, Wm. G. & Co., 513 W German
Owens & Sisco, Continental bldg
Parker, John H., 7 Clay
Parker & Thomas, Union Trust bldg
Potter, Abraham S., 105 Augusta av
Ruden, Paul, 214 N B'way
Shaw, Wm. H., Hoffman bldg
Simonson & Pietsch, American bldg
Schoenlein, Aug, 2217 E Balto
Sperry, Joseph E., Calvert bldg
Stueler, Rudolph, 1828 Mosher
Tinley, H. J., Hoffman bldg
Tormey & Leach, 323 N Charles
Turnbull, Bayard, 12 E. Lexington
Tuzo, Paul B., 11 Pleasant
Von Nerta, Geo. O., Nat. Marine Bank bldg
Wilson, J. A., Law bldg
Wood, James W., 616 Wyanoke av
Worthington & Ahrens, Law bldg
*Wyatt & Nolting, Keyser bldg
CUMBERLAND—Butler, Wright
Sansbury, Geo. Flack
Slebert, Jno. S.
Taylor, Wm. T.
HAGERSTOWN—Hunter, I. A.
Rose, Louis
PIKESVILLE—Watts, Albert S.
POCOMOKE CITY—Stevenson, R. M.
ST. MICHAELS—Dodson, H. C.
SALISBURY—Mitchell, T. C.
WESTMINSTER—Case, Paul

MASSACHUSETTS.

ADAMS—Fleming, J. M., 30 Summer
AMESBURY—Libbey, L. A.
AMHERST—Smith, O. F.
ANDOVER—Gilbert, P. F.
ARLINGTON—Moise, Frank J.
ATHOL—Boyden, Mason A.
ATTLEBORO—Higgins, O. M.
Hyde, Karl H., 9 Horton blk
AYER—Ely, Chas. H.
Stacy, D. E.
BEVERLY—Harmon, W. H.
Peare & Quiner
Smith, W. B., 222 Cabot
Swan, George

BOSTON—Adden & Parker, 12 Bosworth

Alden, Chas. H., Jr., Ames bldg
 Alden, Henry B., 23 Court
 Allen & Collins, 6 Beacon
 Ames, John W., 15 Exchange
 *Andrews, Jaques & Rantoul, State Mutual bldg
 Andrews, W. H., 101 Tremont
 Appleton, W. Cornell, 53 State
 Arnold, Sheffield A., 6 Beacon
 *Atherton, Walter, 13 Exchange
 Atkinson, R. S., 218 Tremont
 Atkinson, Wm., 31 Beacon
 Atwood, Harrison H., 61 Alban
 *Austin, Chas. D., 128 Neponset av, Dor
 Avery, Geo. A., Ford bldg
 Bacon, Lewis H., 27 School
 Bacon, Willard M., 27 Kilby
 Baker, Moses E., 31 Beacon
 Barker, Edward T., 5 Park sq
 Bartlett, J. Gardiner, 53 State
 *Barton, Geo. E., 120 Boylston
 Bateman, C. J., Old Court House
 Beal, C. R., Tremont bldg
 Beal, J. William, 62 Summer
 Benton, E. R., Equitable bldg
 Berry, J. Lawrence, 6 Beacon
 Besarick, John H., 185 Summer
 Besarick, Wm. H., 13 School
 Bigelow, Henry F., 3 Hamilton pl
 Binney, Arthur, 70 Kilby
 Bixby, Curtis W., 120 Tremont
 *Blackall, O. H., 20 Beacon
 Blaikie, Edwin K., 46 Cornhill
 Blevins, Albert H., 9 Park
 Bodwell, Albert E., 85 Water
 Bond, Newton C., Oliver bldg
 Boone, Allen E., 70 Kilby
 *Boston Society of Architects, 14 Somerset
 Bosworth, Geo. F., 156 Bay State rd
 *Bourne, Frank A., 70 Kilby
 Bowditch & Stratton, 7 Water
 Boyden, Ernest N., 85 Water
 Brainerd & Leeds, Ford bldg
 Brigham, Chas. A., 8 Exchange pl
 Brigham, Coveney & Bisbee, 184 Boylston
 Brown, Chas. A., 120 Boylston
 Brown, Frank C., 9 Park
 *Brown, Samuel J., 164 Federal
 Brown, Willard D., 15 Beacon
 *Calderwood, Jas., 186 Devonshire
 Capen, G. Walter, 179 Summer
 Carlson, Harry J., 22 Congress
 Chandler, H. S., 31 Beacon
 *Chandler, Jos. Everett, 2 A Park
 Chapman, E. R. B., 280 Boylston
 *Chapman & Frazer, 8 Exchange pl
 Chase, Wm. O., 95 Beacon
 Chickering & O'Connell, 18 Boylston
 Churchill, Frank M., 97 Asmont
 Clark, Eugene L., 50 Bromfield
 Clark, Theodore M., 15 Beacon
 Clark & Russell, 128 A, Tremont
 Clarke, Wm. E., 15 Court sq
 Cleveland, Frank E., 15 Beacon
 Clough & Wardner, 46 Cornhill
 Cobb, A. W., 34 Oliver
 *Codman & Despradelle, 31 Beacon
 Cogswell, Chas. N., 1 Beacon
 *Colt, Robert, 85 Water
 Colby, H. A., 2 A, Beacon
 Collett, Wm. C., 50 Bromfield
 Connor, G. Prescott, 40 Saxton
 *Coolidge & Carlson, 22 Congress
 Cooper & Bailey, 60 Congress
 Couch, Lester S., 70 Kilby
 Cox, Allen H., 6 Hancock av
 Craig, John J., 35 Congress
 *Cram, Goodhue & Ferguson, 15 Beacon
 Crosby, G. Frde, 76 Studio bldg
 Cummings, Walter C., 27 School
 Cutter, Olin W., 63 Atlantic av
 Dana, Edward P., 112 Water
 *Darrow, Alfred L., 113 Devonshire
 Davidson, H. E., 6 Beacon
 Dennett, Hartley, 4 Joy
 Desmond, G. Henry, 15 Beacon
 Dillaby, Frank H., 101 Tremont
 Dinsmoor, Wm. W., 28 School
 Dudley, Wm. N., 46 Cornhill
 Dunham, C. B., 6 Beacon
 Dwyer, John E., 47 Haverhill
 Dykeman, W. A., 27 School
 Eastman, Chas. H., 50 Bromfield
 *Emerson, Wm. R., 120 Tremont
 Eskridge, Frank T., 17 Milk
 *Everett & Mead, 60 Devonshire
 Faxon, John Lyman, 120 Boylston
 *Fehmer & Page, 87 Milk
 *Fernald, Geo. P., 70 Kilby
 *Finneran, Geo., Old Court House
 Fisher, Richard A., 8 Beacon
 Forbush, W. R., 10 P. O. sq
 Fowler, J. Chandler, 161 Devonshire
 Fowler, J. Sumner, 19 Milk
 *Fox, John A., 120 Tremont

*Fox & Gale, 3 Park
 Fuller, Geo. A., 18 Tremont
 Gannett & Woodbury, 53 State
 *Gay & Proctor, 51 Bromfield
 *Godfrey, Chester N., 15 Beacon
 Gould, Aaron H., 17 Milk
 Gowing, F. H., 43 Tremont
 Graham, Edward T. P., 15 School
 Greco, Arthur F., 53 State
 *Greene, Jos. T., 12 Pearl
 Grandleaf, L. C., 101 Tremont
 Griffin, Tristram, 114 State
 Guffy, Geo., 22 Congress
 Halden, John C., 85 Water
 *Hale, Herbert D., 15 Exchange
 Hall & Kimball, 101 Tremont
 Hamilton, Bradford, 163 Oliver
 Harding, Wm. E., 857 Blue Hill av
 *Hartwell, Richardson & Driver, 62 Devonshire
 Hasty, John A., 141 Milk
 Hathaway, Harold W., 6 Beacon
 *Henderson, Walter P., 144 Congress
 Hettinger, C. F. & Co., 1140 Columbus av
 Hill, Aurin F., 13 Isabella
 *Hill, Warren C., 93 Federal
 *Hill & James, Ford bldg
 Hinds, Fred S., 19 Milk
 *Holmes, Thos. W., 9 Park
 *Hood, Richard P., 60 Congress
 *Howard, P. B., 144 Congress
 Howe, Geo. B., 15 Beacon
 Howe, Lois L., 717 Tremont bldg
 Hoxie & Scholtes, 420 Boylston
 Hoyt, Clarence P., 1128 Tremont
 Hoyt, Edw. H., 220 Devonshire
 Huber, Raymond, 41 Ashford, Alls
 Hughes, T. R., 112 Water
 *Hunnell, Henry S., 37 Milk
 Hunt, Wm. H. & Co., 46 Cornhill
 Hurd & Gore, 8 Beacon
 Hutchison, J. G., 101 Tremont
 *Ingraham, G. H., 2 A Park
 *Jackson, Allen W., 6 Hancock av
 *Jacques, Herbert, 50 Congress
 *Jenney, Alex. S., 50 Bromfield
 *Jones & Howland, 50 Congress
 Jonsberg, F. F., Old South bldg
 *Kahlmeyer, John, 186 Devonshire
 *Kelley, James T., 57 Mt. Vernon
 Kelley, Samuel Dudley, 209 Wash'n
 *Kendall, Frank A., 53 State
 *Kendall, Taylor & Stevens, 93 Federal
 *Kiessling, Colvin, 8 Beacon
 *Kilham & Hopkins, 9 Park
 *Killam, Chas. W., 53 State
 Kimball, Herbert S., 101 Tremont
 Lavalley, John, 85 Devonshire
 *Le Boutillier, Addison B., 8 Beacon
 *Lee, James S., 6 Beacon
 *Lewis, Edwin J., Jr., 9 Park
 Lewis, G. Wilton, 258 Washington
 Lewis, Wm. Whitney, 15 Exchange
 *Little, J. Lovell, Jr., 15 Beacon
 *Little & Brown, 70 Kilby
 Lockwood, Greene & Co., 93 Federal
 *Longfellow, A. W., Tremont bldg
 *Longfellow, R. K., 1124 Tremont
 *Loring & Phipps, 53 State
 *Loud, Joseph Prince, 85 Water
 *Lowell, Guy, Tremont bldg
 Luippold, Jacob, 89 Mozart
 McClintock, John T., 23 Court
 McEwen, P. J., 120 Boylston
 McFarland, Colby & McFarland, 2A Beacon
 McGinty, Wm. H., 101 Tremont
 McLaughlin, Jas. E., 683 Atlantic av
 McLean & Wright, 110 Tremont
 *Machado, E. M. A., 9 Cornhill
 Maggi, Alfred, 7 North sq
 *Maginnis, Walsh & Sullivan, 100 Boylston
 Mahoney, Frank W., 6 Beacon
 Maynard, E. W., 226 Tremont
 *Mead, Samuel W., 226 Tremont
 Moffette, George, Jr., 34 School
 Moore, F. H., 27 School
 Moore, Geo. A., 70 Kilby
 *Morrison, Wm. L., 70 Kilby
 Morse, Edw. P., 222 Adams, Dor
 *Morton, H. W., 22 Congress
 *Mulcahy, James, 683 Atlantic av
 Murray, John F., 27 School
 Murray & Hutchinson, 101 Tremont
 Nevin, Chas. K. B., 6 Beacon
 *Newhall & Blevins, 9 Park
 *Newton, Geo. F., 6 Beacon
 Nichols, Edward, 70 Kilby
 Nichols, Geo. L., 93 Federal
 Norcross, F. A., 46 Cornhill
 Norris, F. Edgar, Ford bldg
 Nourse, Henry M., 29 Pemberton sq
 Orr, Hugh, 131 State
 Park & Kendall, 8 Beacon
 Parker, Winthrop D., 12 Bosworth
 *Parker & Thomas, 20 Beacon
 *Parkhurst, Walter, 6 Beacon

*Parsons, G. E., 6 Hancock av
 *Patch, Chas. E., 52 Kilby
 *Peabody & Stearns, 53 State
 Pearl, Wm. H., 15 Beacon
 *Pennell, H. B., 647 Boylston
 *Perkins, C. B., Ford bldg
 Perkins, Harland A., 194 Boylston
 *Peters & Rice, 812 Pemberton bldg
 *Pbillips, Henry A., 120 Tremont
 *Phipps, Sanford, 153 State
 Pinkam, A. B., 2604 Wash'n, Rox.
 Pope, Fred, 622 Tremont bldg
 Powell, Francis G., Columbia rd & Blue Hill av
 Power, Richard W., Old Court House
 Prescott & Sidebottom, 113 Devonshire
 Preston, Henry J., 112 Water
 *Preston, Wm. Gibbons, 186 Devonshire
 *Purdon, James, 8 Beacon
 *Putnam, John Pickering, 535 Beacon
 Putnam & Cox, 6 Hancock av
 Quigley, Wm. B., 205 Faneuil
 Randall, B. L., 9 Highland
 Rantlin, Samuel & Son, 1117 Columbus av
 Rantoul, W. G., 6 Beacon
 Reid & McAlpine, 110 Tremont
 Rice, L. Frank, 125 Milk
 *Richards, Wm. P., 112 Water
 Richardson, A. G., 9 Cornhill
 Ring & Whiting, 101 Tremont
 Ripley & Russell, 8 Beacon
 Russell, C. A. & F. N., 54 Warren, Rox
 Safford, Morton D., 259 Summer
 *Sargent, T. M., 167 Tremont
 *Sawyer, Ralph E., 31 Beacon
 *Schweinfurth, J. A., 35 Congress
 *Sears, W. T., 70 Kilby
 *Shattuck, Geo. C., Ames bldg
 Sheehan, T. Edw., 945 Tremont bldg
 *Shapley, Rutan & Coolidge, 122 Ames bldg
 Silloway, T. W., 10A Park sq
 Siter, H. E., 46 Cornhill
 *Skinner, Theo. H., 6 Hancock
 *Smith, F. Patterson, Equitable bldg
 *Smith, Geo. L., 70 Kilby
 Smith, Horace H. (Mill), Ford bldg
 Smith, O. F., 70 Kilby
 Snow, E. A., 8 Exchange pl
 *Somes & Parsons, 101 Tremont
 Spofford & Eastman, 50 Bromfield
 Spring, Russell, 220 Devonshire
 Stephenson, H. M., 100 Boylston
 Stewart & Marshall, 68 Devonshire
 *Stickney & Austin, 50 Bromfield
 *Sturgis & Barton, 120 Boylston
 Suck, Adolph, 179 Summer
 Swasey, Albert E., 100 Boylston
 Sylvester, Edmund Q., 31 Beacon
 Taylor, W. Hart, 50 Bromfield
 Thayer, O. A., Ford bldg
 *Tilden, Geo. T., 85 Devonshire
 Tirrell, Edward F., 46 Cornhill
 Tobey, S. Edwin, 157 Summer
 Turner, Alfred C., 683 Atlantic av
 Underwood, H. T., 46 Cornhill
 *Untersee, F. Joseph, 49 Federal
 *Vaughan, Henry, 29 Pemberton sq
 Vinal, Arthur H., 19 Milk
 Vinal, Ralph S., 601 Boylston
 Vining, John F., 3 Hamilton
 *Wakefield, F. Manton, 9 Park
 *Wales, Geo. C., 15 Beacon
 Walker, Ambrose W., 9 Cornhill
 *Walker, Chas. H., 15 Beacon
 Warren, Clinton J., 7 Water
 *Warren & Smith, Equitable bldg
 Watson, Robert A., 38 Hillside
 Weaver, Arthur N., 114 State
 Weston, F. W., 1 Rowe's Wharf
 *Wetherell, Geo. H., 9 Park
 Wheelwright, A. W., 31 Beacon
 *Wheelwright & Haven, 220 Devonshire
 *Whitman, E. P., 62 Devonshire
 Wilson, Edward I., 101 Tremont
 Winslow, W. Henry, 14 Home av, J. P.
 *Winslow & Bigelow, 3 Hamilton pl
 Woodbury, D. H., 53 State
 Wright, Alonzo D., 40 State
 Wright, A. H., 110 Tremont
 BRIDGEWATER—Dow, R. N. (Scotland P. O.)
 BROCKTON—Barlow, W. F., Jr.
 Ellis, J. Lewis
 Howard, Waldo V.
 Irving, David
 Mitchell, Clarence A.
 Westwood, John
 BROOKLINE—Freeman, Harry S., 24 Littell
 Kierstead, Jesse J., 10 Davis av rd
 Strattan & Hunt
 CAMBRIDGE—Bartlett, C. H., 689 Mass. av
 Chamberlin, W. E., 27 Clinton
 Douglas, Nathan, 5 Lee
 Hasty, J. A., 46 Trowbridge

Joll & Ramsay, 671 Mass. av, Cp
 McClare, C. Herbert, 649 Mass. av
 Tyler, G. H. & Co., 989 Mass. av
AMBRIDGEPORT—(See Cambridge)
ANTON—Capen, G. W.
HELSEA—Lawrence, F. P.
LINTON—Carter, Harry D., 98 Chestnut
 Parker & Bateman
 Thissell, J. & Son
EDHAM—Tucker, Frank W.
VERETT—Helrich, Otto A.
 McIntire, W. L.
 Moore, John H.
 Spofford, John C.
 Wood, Geo. H.
 Woodward, Wm. E.
AIRHAVEN—Bisbee, Henry V.
AL RIVER—Corbett, Edw. M., 70 Bedford
 Darling, J. M., 56 N Main
 Destremps, Louis G., 56 N Main
 Dyer, David H. & Son, Pocasset Bank bldg
 Henry, W. T., 30 Borden blk
 Marvell, E. I., 57 N Main
ALMOUTH—Tobey, W. A.
ITCHBURG—Francis, Henry M. & Sons, 387
FRAMINGHAM—Barnes, C. E. Main
 Kendall, F. A.
ARDNER—Boutelle, Cyrus F.
LOUCESTER—Phillips, Ezra L.
RENFIELD—Drew, M. R.
LAVERHILL—Damon, C. Willis, 25 Wash'n sq
 Littlefield, J. M., 69 Merrimack
 Perkins, J. A., 47 Merrimack
OLYOKE—Alderman, Geo. P. B. & Co.
 Chase, R. S., 225 High
 Ellsworth & Howes, 365 Dwight
 Green, Samuel G. M.
 Howes, W. J., 235 High
 Ranger, William
 Reid, Wm. B., 280 High
LYDE PARK—Harding, W. E.
 Higgins, O. M.
AWRENCE—Adams, Geo. G., 288 Essex
 Allen, J. E., 283 Essex
 Ashton, John, 477 Essex
 Cullinane, Richard, 288 Essex
 Kimball, W. A., 114 Howard
 Knapp, J. G., 288 Essex
 Meserve, G. M., N Andover Sta.
 Regan, Wm. P.
 Reynolds, J. T. & Co., 448 Lowell
 Smith, Horace H. (mill), Bay State bldg
 Thibodo, Eli
ENOX—Morse, T. S.
 Root, J. H.
DOMINSTER—Davis, Fred L.
 Page, Leroy J.
ONGMEADOW—Fay, L. C.
OWELL—Clark, Edwin R., 295 Central
 Davis, Millard F., Hildreth bldg
 Dunfey, W. T., 109 Mammoth rd
 Floyd, Warren L., 18 Shattuck
 Gardner, Everett M., 198 Holyrood av
 Gilbert, Perley F., 53 Central
 Graves, Harry Prescott, 40 Middlesex
 Moody, Leonard T., 25 Lane
 Roach, J. S., 160 Smith
 Stickney & Austin, Hildreth bldg
YNN—Burk, Michael F., 324 Union
 Davidson, B. F., 7 Bloomfield
 Earp, Edwin, Jr., 333 Union
 Rogers, Hamilton E., 38 Exchange
 Rogers, Henry W., 38 Exchange
 Sanborn, Dana A., 343 Union
 Varney, Penn., 25 Exchange
 Wheeler & Betton, 59 Exchange
ALDEN—Rogers, Louis P., Fellsway West
 Welch, F. I.
ARBLEHEAD—Phillips, Wm. L.
 Quiner, Wm. H., Jr.
 Sanborn, Nathan P.
ARLBORO—Bigelow, James F.
ELROSE—Cobb, Joseph F.
 Dow, Lewis A.
 Garrett, J. J.
ETHUEN—Barker, Morris
ILFORD—Collins, Walter L.
 Cook, Robt. Allen
 Hughes, Frank M.
MONSON—Danforth, A. H.
NEEDHAM—Litchfield, L. D.
NEW BEDFORD—Ashley, S. P., 261 Hillman
 Cadorette, Maxime, 236 Brock av
 Destremps, Lewis E., 23 Robeson
 Francis, C. G., 574 Kempton
 Hammond, C. & Son, 179 N Water
 Hunt, Samuel C.
 Smith, Nat. C.
 Williams, John, 77 Merrimack
NEWBURYPORT—Bailey, John E.
 Knight, Carl M.
NEWTON—Bacon, Lewis H., 627 Chestnut
 Estes, A. S. N., 297 Walnut
 Fisber, Gurdon R., 263 Lave av, N H

Forbush, W. R., 195 Church
 Gay, Jos. B., 43 Bracebridge rd, N O
 Nichols, Geo. L., 72 Fisher av, N H
NEWTONVILLE—Estes, A. S. N.
NORTH ADAMS—Barlow, Edwin T.
 Bond, Newton C. Co.
NORTHAMPTON—Pratt, W. F.
 Putnam, Roswell F.
NORTH ANDOVER—Mcserve, Geo. N.
NORTHBRIDGE—Lunt, G. H.
PALMER—Gager, Luther H.
PEABODY—Balcorn, E. B.
PITTSFIELD—Harding & Seaver, 7 North
 Haynes, Geo. E., 255 North
 Rathburn, Chas. T.
 Vance, Jos. M., 24 North
 *Wilson & Butler
PLYMOUTH—Howland, C. D.
QUINCY—Lofgren, W. R. L.
READING—Davis, Chas.
 Stewart & Robertson
REVERE—Webber, S. Adams
SALEM—Balcorn, Edwin B., 228 Sussex
 Bickford, John H., 34 Buffum
 Chalifour, James, r 12 Glover
 Dennis, Wm. D., 210 Essex
 Foster, Jos. C., 237 Essex
 Machado, Ernest M. A., 39 Church
SHIRLEY—Marsh & Son
SOMERVILLE—Buckley, Elmer, 47 Rogers av
 Hill, Warren C., 115 Rogers av
 Parks, J. M., 46 Prichard av
SOUTH FRAMINGHAM—Barnes, Chas. E.
SPRINGFIELD—Donahue, J. W., Walker bldg
 Foster, John W., 133 Allen
 Gardner, E. C. & G. C., 33 Lyman
 Hoggson Bros., 31 Elm
 *Kirkham & Parlett, 25 Harrison av
 Pyne, Geo. R., 31 Elm
 Richmond, F. R., 31 Elm
 Seabury, B. Hammett, 21 Besse pl
 Taylor, G. Wood, 425 Main
 Tinker, C. A., 21 Elm
STOUGHTON—Marston, I. Bertram
TAUNTON—Smith, Gustavus L.
TEMPLETON—Ingalls, G. L., E Templeton
WAKEFIELD—Perkins, Harland A., 10 Pearl
WALTHAM—Strout, Geo. E., 39 Fiske
WATERTOWN—Brigham, Chas.
 Gray, Arthur F.
 Haynes, Alberto F.
 Norris, W. A.
 Shepherd, Frank H.
WESTFIELD—Holton, Augustus W.
 Tinker, Clifford A.
WILLIAMSBURG—Brown, R. N., Haydenville
WINCHENDON—Robichaud, J.
WORCESTER—Barker, E. N., 425 Main
 Carlson, Edwin, 34 Jefferson
 Chapin, Edwin T., 340 Main
 *Clemence, Geo. H., 405 Main
 *Cutting, Carleton & Cutting, 44 Front
 *Earle, Stephen C., 339 Main
 Erikzen, Erik, 9 Perkins
 Fisher, Clellan Waldo, 340 Main
 Fitzgerald, Edward P.
 *Frost, Briggs & Chamberlain, 518 Main
 *Fuller & Delano Co., 452 Main
 Harvey, Wm. H., 311 Main
 Jacques, Urgel, 340 Main
 Kingston, John P., 518 Main
 Lebeau, Francois A., 26 Vernon
 *Lincoln, Chas. H., 6 Park av
 Nault, Onesime E., 8 Wall
 Newton, B. S., 1125 Pleasant
 Topanelian, Edw., 340 Main
 Tribe, Geo. T., 306 Main

MICHIGAN.

ADRIAN—Matthes, C. F. & Son
 Smith, F. E.
ALMA—Chase, J. G.
 Wood, E. M.
ANN ARBOR—Parke, Julius L.
 Pipp, Herman
 Sauer, C. A. & Co.
 Scott, Geo. Henning blk
 Stanton, S. Mc.
ARMADA—Dickens, Chas. B.
BATTLE CREEK—Arnold, E. W.
 Carney, Maurice P.
 Loughborough, W. K.
 Ordway, A. D.
BAY CITY—*Clark & Munger, Shearer Bros.
 Floeter, P. C., Concordia bldg
 Pratt & Koeppe, Crapo bldg
BENTON HARBOR—McKellar, J. D.
BLISSFIELD—Dickinson, D. E.
BRIGHTON—Curry, L. M.
CALUMET—Campbell, Duncan
 Marnell, P. H.
CARSON CITY—Heaton, H. G.
CHARLOTTE—Bacon, J. H.
COMMERCE—Darling, Thomas

DELRAY—Kinnell, Jos.
DETROIT—Baenziger, O. B., Bubl blk
 Baxter & O'Dell, Hammond bldg
 Bennett, Clarence H., 215 Hibbard av
 Bloquell, Hugo, 163 Rivard
 Butterfield, Wells D., 1093 Brooklyn av
 Case, Jno. W., 271 Woodward av
 Chamberlin, Harry W., 57 Fort
 Crittenden & Kottling, Penobscot bldg
 Claus, John S., 630 Campbell av
 Coquard, Leon, 169 First
 Crosman & Gregory, 20 Grummond av
 Dederichs, Peter, Chamber of Com. bldg
 Dillou, Wm. H., Wayne Co. Bank bldg
 Donaldson & Meier, Penobscot bldg
 Falkenburg & Miller, Goebel bldg
 French, Albert E., 301 Bubl blk
 Greene, Chas. R., 631 Tillman av
 Gregory, E. W., cor Grummond & Wood avs
 Grylls & Gies, Wayne Co. Savings Bank
 Joy & Barcroft, 408 Ferguson bldg
 Kahn, Albert, Pressed Concrete bldg
 Kamper, Louis, Fine Arts bldg
 Kastler & Hunter, Chamber of Commerce
 Koehler, Chas. W., 818 Chamber of Commerce bldg
 Kuehnle, A. G., Walker blk
 McKay, Boyd, 77 Alger av
 *Malcolmson, Higginbotham & Clement, Moffat bldg
 Mason, Geo. D., 80 Griswold
 Maynard, Chas. H., 328 Lincoln av
 Mills, Jos. E., Wasbington Arcade
 Mueller & Mildner, Ferguson bldg
 Myers, E. E., Chamber of Commerce bldg
 Myers, G. W., 210 Betbume av
 Oberson, Sam'l G., 322 Sidney av
 Oglesby, Thos. P., 1059 Concord av
 Oldfield, G. C., Newberry bldg
 Pollmar & Ropes, Cleland blk
 *Raseman & Fisher, Penobscot bldg
 Rice, Zachariah, 57 Fort, W
 Rill, Harry J., 54 Buhl blk
 Rivard, L. F., 1605 Russell
 *Rogers & Macfarlane, Penobscot bldg
 Schroeder, Geo., 379 Clinton av
 *Scott, John & Co., 518 Moffat bldg
 Shefferly, F. Jos., 428 Monroe av
 Sblels, T. E., 1719 Mich. av
 Smith, S. O., Home Bk bldg
 Smith, Hinchman & Grylls, Wash'n Arcade
 Spier & Rohns, Chamber of Commerce bldg
 Stahl, John C., Jr., Tolma bldg
 Stevens, Harry C. & Co., Wash'n Arcade
 *Stratton & Baldwin, Union Trust bldg
 Van Leyen & Schilling, 40 Fort, W
 Varney, Almon C. & Co., 58 Newberry bldg
 Vollmer, Wm. H., Cham. of Com. bldg
 Walshe, Edw. A. & Son, Wbltney bldg
 Wardrop, Norval, Gladwin bldg
 Williams Bros., Whitney bldg
 Worden, Thos. M., 24 Celia
FLINT—Brace, L. W.
 Stark, H. W.
FREMONT—Koyl, Wm. H.
GRAND RAPIDS—*Allen, Frank P. & Son, Mich. Trust bldg
 Benjamin, Thos. & Son, 475 Lake av
 Chapel, W. A., 157 N Ottawa
 Clarke, W. M., Houseman bldg
 Davenport, J. H. & Son, Porter blk
 Hopkins, D. S., 74 Monroe
 Hopkins, F. F., 628 Cherry
 *Osgood & Osgood, Widdicomb bldg
 *Robinson & Campau, Houseman blk
 Rusb, A. Wm., 46 Coit av
 Stone, G. L., 531 Widdicomb bldg
 Vierbelig, C. G., Houseman bldg
 Williamson & Crow, The Gilbert
HANCOCK—Liebert, H. S.
HARBOR SPRINGS—Mead, Earl H.
HERSEY—Goersman, B.
HILLSDALE—Baer, E. C.
HOLLAND—Davenport, J. H. & Son
 Price, James
IONIA—Waterbury, Orry
 Wright, H. G.
IRON MOUNTAIN—Lemieux, Jos.
JACKSON—Allen, Claire, Dwight bldg
 Field, L. H., Jr.
 *Grosvenor, Lemuel D., 322 W Wesley
KALAMAZOO—Fairchild, Chas. A., 121 E Main
 Gallup, Robert M.
 Rose, Albert E.
 Tanis & Son
 Worthington, A. M.
LANSING—*Bowd, E. A.
 Churebill, Judson N.
 Holbrook, H. J. & Son
 Moon & Spice
 *White & Hussey
LAURIUM—Nystrom, C. E.
LUDINGTON—Boerner, Chas.

MAPLE RAPIDS—Hewitt, R. H.
 MARQUETTE—Charlton & Kuenzli
 Gregory, H. H.
 MOREY—Ingersol, J.
 MOUNT CLEMENS—Van Damme, T.
 NILES—Tillotson, W. I.
 OWOSSO—Edwards, G. M. & Co.
 PAW PAW—Hathaway, A. A. & Co.
 PONTIAC—Fisher Bros.
 Prall, Edw. R.
 PORT HURON—Erb, Isaac, White, bldg
 Harvey, Geo. L.
 Kaumier, J. C. & Co.
 SAGINAW—Boergert, B. Franklin, Heavenrich
 Bude, Volusia, 733 S Baum bldg
 Cooper, W. T. & Son, 305 Hayden
 Cowles, Clarence L., 114 N Wash'n av
 Hollister, F. W., Merrill bldg
 Merriam, Roy, Berringer bldg
 SAULT STE MARIE—De Mar, Edward
 TRAVERSE CITY—Moore, F. E.
 Petersen, Jens. C.
 WYANDOTTE—Harding, E. J., Bank bldg.

MINNESOTA.

CAMBRIDGE—Lind, Jos.
 CROOKSTOWN—Strassburger, E. H.
 DULUTH—Bray & Nystrom, Palladio bldg
 de Ward, J. R., Torrey bldg
 German & Lignell, Lonsdale bldg
 Hunt, W. A., Lonsdale bldg
 Kelly, C. W., Palladio bldg
 Parsons, W. L. & Son, Manhattan bldg
 Puck, A. W., Lyceum bldg
 Radcliffe & Price, Palladio bldg
 Terryberry, Austin, Palladio bldg
 Wagenstein, J. J., 401 Providence bldg
 Young, Frank L. Co., Palladio bldg
 ELBOW LAKE—Foss, A. H.
 FERGUS FALLS—Wright, V. A.
 LAKE CITY—Alexander, E.
 LUVERNE—Green, W. E. E.
 MARSHALL—Fulton, H. P.
 MINNEAPOLIS—Anderson, F., 2810 Bryant, S
 Bell & Detweiler, Northwestern bldg
 Bertrand & Chamberlin, Bank of Com. bldg
 Boehme & Cordella, Kasota bldg
 Bowler, S. J., Bank of Com. bldg
 Buell, C. J., 21 Malcolm av, S.
 Carter, Harry G., Northwestern bldg
 Corser, Frederick G., N. Y. Life bldg
 Dorr, A. L., Lumber Exchange
 Downs & Eads, N. Y. Life bldg
 *Dunnell, Warren B., Security Bank bldg
 Edwins & Halden, Evanston bldg
 Haley, E. C., Northwestern bldg
 Hart, F. B., 1001 E 19th
 Hewitt, E. H., 716 4th av, S
 "Hodgson," 606 Northwestern bldg
 Hunt, Wm. S., Northwestern bldg
 Jager, J. N., Corn Exchange bldg
 Jones, Harry W., 916 Lumber Exchange
 Juvik, O. C., 3247 14th av, S.
 Kees & Colburn, Kasota bldg
 Keith Co., 917 Hennepin av
 Kendrick, F. B., Oneida blk
 Kennedy, Ernest, 772 Boston blk
 Kenyon, Wm. M., Guaranty bldg
 Kinney, F. W., Northwestern bldg
 Lamoreaux, L. A., Lumber Exchange
 Lindstrom & Williams, 455 Auditorium
 Long & Long, 830 Hennepin av
 *Muther, Wendelin, 1701 Aldrich av, N
 Orff, F. D., 613-15 Lumber Exchange
 Record, J. H., 3544 Bryant av, S
 Saxton, Glenn L., Security bldg
 Sedgwick, C. S., Lumber Exchange
 Sewall, Fred'k F., Guaranty bldg
 Stebbins, E. S., Masonic Temple
 Struck, Carl F., 636 Boston blk
 Turner, C. A. P., The Phoenix
 Wass, A. G., Lumber Ex
 *Whitney, Wm. Channing, Loan & Trust bldg
 Wilcken, H. H., 909 4th av, N
 Wyckoff, W. C., 517 1st av, S
 NEW ULM—Amme, Hermann
 Berndt, Julius
 Heers, C. A.
 RED WING—Clum, A. L.
 ROCHESTER—Jonson, J. G.
 ST. CLOUD—Blix, A. J.
 Haas, S. H.
 Hussey & Bergman, 707 7th av
 ST. PAUL—Bassford, E. P. & C. A., Gilfillan
 Buechner & Orth, Manhattan bldg blk
 Donohue, E. J., Gilfillan blk
 Fischer, John F., 753 Wabasha
 Fisher, James E., Cham. of Commerce
 Fitzpatrick, M. J., 17 W 9th
 Garlough, A. L., Union blk
 *Gauger, A. F., Scandinavian-Am. B'k bldg
 *Gilbert, Cass, 524-526 Endicott bldg

Holyoke, T. G., Endicott bldg
 *Johnston, Clarence H., Manhattan bldg
 Knight, A. F., Bradley bldg
 Kretz, Hermann & Co., N. Y. Life bldg
 Laurent, Geo., Court blk
 Lockwood, Louis, Nat. G. A. Bank bldg
 MacLeod, Jas. Allen, Endicott bldg
 Masqueray, E. L., Dispatch bldg
 Reed & Stem, 601 Endicott bldg
 *Stevens, J. Walter, New York Life bldg
 Thori, Alban & Fischer, Cham. of Com. bldg
 Wheeler, Alfred H., Globe bldg
 Wheeler, J. H., New York Life bldg
 STILLWATER—Schmidt, Eugene
 WINONA—Mayburg, C. G. & Son, 72 W 3d
 Van Deusen, A. J.

MISSISSIPPI.

BILOXI—Harkness, W. T.
 Roof, H. H.
 BOONEVILLE—Alexander & Patrick
 BROOKHAVEN—Dickey, D. Anderson
 COLUMBUS—Boswell, I. M.
 JACKSON—Hunt, R. H.
 *Hull, W. S.
 Pitts, Ulle W.
 Tinsley & McCormack
 MERIDIAN—Krouse & Hutchisson
 NATCHEZ—Ketteringham, W. A.
 VICKSBURG—Stanton, Wm.
 WESSON—Woodin, A. T.
 WEST POINT—Fullington, D. B.
 Stinson, D. N.
 YAZOO CITY—Davis, J. H. & Son

MISSOURI.

BEVIER—Chitwood, W. M.
 BOONVILLE—Ravenel, Samuel W.
 CAMERON—Merwin, Hugh
 CANTON—Sason, E. N.
 CARTHAGE—Ehlers, A., 1327 S Maple
 Prather, J. A., 1101 S Maple
 CHILLICOTHE—Garver, Wm. L.
 COLUMBIA—Miller, F. P.
 Duncan, A. T.
 DE SOTO—Hemme, Charles
 FULTON—Bell, M. F.
 GLASGOW—Rail, Gustav
 GRANBY—Mathews, Lee
 HANNIBAL—McDonald, C. V.
 Martin, Malcolm
 Schmitt, Ernest
 HIGGINSVILLE—Boyer, W. C. & Son
 HOPKINS—Akin, John A.
 JEFFERSON CITY—Miller, F. B.
 JOPLIN—Allen, Austin & Co.
 Bellas, T. R.
 Garstang & Rea
 Michaelis, A. C.
 Rea, Alfred W.
 KANSAS CITY—Anderson, A. B., N. Y. Life
 Ashley, A. J., 1221 Grand av bldg
 Bannon, James, 206 Temple blk
 Boller, Carl, Nelson bldg
 Braecklein, J. G., 818 Wyandotte
 Brooks, B. H., Beales bldg
 Brown, W. E., New Ridge bldg
 Carman, George, 309 Hall bldg
 Chamberlain & Cummings, 8th & Grand
 *Curtiss, Louis, 1112 McGee
 Edwards & Sunderland, Sheldley bldg
 Enliff, Jno., 3100 E 15th
 Fall, Wm. B., 3500 Warwick boul
 Faris, Edgar C., 10th & Walnut
 Felt, J. H. & Co., New Shukert bldg
 Frink, S. R., 10th & Walnut
 Guinotte & Thurtle, Champan bldg
 Gunn, F. C., 1023 Grand av
 *Hamilton, F. B., Beals bldg
 Harris, W. E., Portsmouth bldg
 Hogg, J. O., N. Y. Life bldg
 Howe, Holt & Cutler, 315 E 10th
 *Hucke & Sexton Contract Co., Dwight bldg
 Hunt, Jarvis, Dwight bldg
 Jackson, F. J., Dwight bldg
 Kurfiss, S. H., Massachusetts bldg
 Lee, J. R., 515 Main
 Levering, L. L., 1615 Prospect
 Ludlow, T. H., Ricksecker bldg
 McKecknie, J. W., N. Y. Life bldg
 Madorie, Edgar P., New Ridge bldg
 *Markgraf, Rudolf, Shukert bldg
 Martling, J. H., 15 W 9th
 Middaugh, L. G., 517 Mass. bldg
 *O'Connell, Matt., New Ridge bldg
 Owen, Albert S., Dwight bldg
 Parker, F. E., Kemper bldg
 Rea, F. S., Dwight bldg
 *Root & Siemens, Postal Tel. bldg
 *Rose, W. W., 715 Minnesota av
 Saylor & Seddon, Kemper bldg
 *Schmidt, C. P., New Shukert bldg

Schrage, W. F., 43 E 32d
 *Shepard & Farrar, Minor bldg
 Sherrill, Frank A., 912 Walnut
 Short, I. M., 711 Euclid
 Simons, H. J., 1407 McGee
 Sloan, C. B., Hall bldg
 *Smith, Chas. A., Dwight bldg
 Steward, F. S. & Son, New Ridge bldg
 Stroeh, H. J., Kemper bldg
 Sutter, D., 1214 Main
 Sutton, J. F., 2305 Troost
 Tate, John W., Postal Tel. bldg
 Thomas, Jno., 4222 E 15th
 Thompson, J. Francis, Mass bldg
 Troje, Robert, 2416 E 23d
 *Turney, Albert, Dwight bldg
 *Van Brunt, Adrance & Bro., Navajo bldg
 Vandenberg, C. C., New York Life bldg
 *Von Unwerth, B. A., 2905 Locust
 Weathers, P. H., Hall bldg
 Wilder & Wight, First Nat. Bank bldg
 Williams, J. C., New York Life bldg
 Willis, Bixby, N. Y. Life bldg
 Wright, Ward W., Schuttie bldg
 MACON—Still, T. A.
 MARIONVILLE—Benamin, A.
 MARYVILLE—Searcy, A. A.
 ROLLA—Hohenschild, H. H.
 ST. JOSEPH—Delevan, E. C., 1124 Frederick
 *Eckel, E. J., Safe Deposit bldg av
 Keucher, Frank, 2212 Frederick av
 Lynch, A. J., Commercial bldg
 Meler, Hartman & Meier, Ballinger bldg
 Monfort, W. C., 422 Francis
 Powell, W. A., Buchanan bldg
 Trunk & Heim, Hughes bldg
 ST. LOUIS—Balnum, Curtis S., 2739 Ellendale
 Baker & Knell, Olive c 9th av
 Annan, Thos. B., 721 Olive
 Baack, Fred'k, W 1111 Dolman
 Baker & Knell, Olive c 9th
 Barnett, Haynes & Barnett, Olive c 9th
 Becker, Gerhard J., 2904 Bailey av
 Berger, Richard A., 811 N 15th
 Black, A. W., 2107 Clark av
 Boehmer, Otto J., 211 N 7th
 Bollseller, CScapar D., 705 Olive
 *Bousack, F. C., 8th c Locust
 Boyers, John A., 2726 Dalton av
 Breitschuh, Chas. N., 722 Chestnut
 Burgdorf, Herman J., 2604 Virginia av
 Cann, W. A., 705 Olive
 Chamblin, Ross, 211 N 7th
 Chivers, Herbert C., 105 N 7th
 Clark, Jas. A., 4250 St. Louis av
 Clymer, Harry G., Chestnut c 7th
 Conrad, Joseph, 810 Olive
 Cope & Stewardson, 319 N 4th
 Danks, Geo. D., 407 N B'way
 Deitering, Chas. H., Olive & 7th
 Detzen, Henry, 5268 Connecticut
 Dice, John M., 810 Olive
 Donovan, Jos. D., 18 S 2d
 Dostal, A. R., Jr., 2828 N Euclid av
 Douglass, J. J., 2524a N Taylor av
 Drischler & Elsner, 105 N 7th
 Dunham, John M., 816 Olive
 Dwyer, John R., 211 N 7th
 *Eames & Young, 8th & Pine
 Eberle, Jos. J., 705 Olive
 Emig, Christian G., 4340 Hartford
 Ewald, Laurence, 4th & Locust
 Fisher, A. A. Arch'l & Bldg. Co., 728 Chestnut
 Foell Architectural Co., 3347 California av
 Folk, Fred'k W., 3842 Blaine av
 Fridrich, Chas. L., 5120 Wells av
 Gardner, Harry B., 717 Locust
 Gillick, Aloysius, F., 321 W Stines
 Givens, Jos. B., 220 N 4th
 Givens, Jos. W., 220 N 4th
 Griebel, Frank L. E., 4292A Easton av
 Groves, Albert B., 314 N 4th
 Gruen, Wm. H., 721 Olive
 Grugan, Albert T., 5400 Vernon av
 Haeger, Leonard, 2853 S 13th
 Haeussler, August F., 510 Pine
 Hallock, Ross C. H., 6317 Clifton av
 *Helmburger, G. U., 4324 Morgan
 Helfensteller, Hirsch & Watson, 721 Olive
 Hellmuth, Geo. W., 405 N 6th
 Henning & Jahnichen, 717½ Chestnut
 Herthel, John W., 324 Chestnut
 Hess, Ernest J., 706 Chestnut
 Hesse, Jos. D., 620 Chestnut
 Higgins, Thos. C., 4471 Berlin av
 Holloway, Chas. S., 407 N 8th
 Holtmann, Wm. F., 3635 A, Liermann av
 Hormann, Louis, 810 Olive
 How, Fred'k J., 4431 Gibson av
 Howard, John L., 620 Chestnut
 Ittner, W. B., 911 Locust
 *Janssen, Ernst C., 721 Olive

Jones, Harry S., 721 Olive
 Kennedy, Josiah W., 105 N 7th
 Kennerly, Geo. H., 202 N 9th
 Kinscy, Geo. E. & Co., 904 Olive
 Kinscy, Arch'l & Cons. Co., 8th & Chestnut
 Kirchner, August H., 1861 N Market
 Kirchner, H. Wm., Chemical bldg
 Kirsch, R. G., 717½ Chestnut
 Klipstein, Ernest C., 319 N 4th
 Klutho, Victor J., 9th & Pine
 Krieg, Otto J., 3529 S Jefferson av
 Lee, T. C. Arch'l & Bldg Co., 717 Locust
 *Legg, Jerome B., 705 Olive
 Lellek, Jos., 3124 Prairie av
 Levy, Wm., 816 Olive
 *Link, Theodore C., Carleton bldg
 *Lowery, Thos., 1519½ N 8th
 Lucas, Wm. A., 816 Olive
 Lynch, Jas. Hal, 625 Locust
 McArdle, Montrose P., 721 Olive
 McCarthy, J. L. D. Arch'l & Eng. Co., 816 Olive
 McMahon, Wm. F., 105 N 7th
 *McNamara, Jas. H., 6 N Grand av
 Maack, Henry, 1742 Choutau av
 *Manny, Edmund A., 319 N 4th
 Mariner & La Beanne, Chemical bldg
 Matthews & Clarke, 705 Olive
 Manle, E., Jr., Chemical bldg
 *Mauran, Russell & Garden, 721 Olive
 *May, Chas. F., 408 Olive
 Meagher, Jas. D., 709 Pine
 Melcher, N. Henry, 310 Cedar
 Milligan & Wray, Olive c 8th
 Nolte, Edw. F., 620 Chestnut
 Osterhorn, Robt. Arch'l & Engineering Co., 1023 N 6th
 O'Brien, Jas. H., 4222 Cook av
 Orr, Edward Ellsworth, 2205 University av
 Paulus, John D., 408 Olive 1023 N 6th
 Peipers, Henry E., 5574 Easton av
 Pendleton, Louis G., 705 Olive
 Pomeroy, Chester W., 816 Chestnut
 Pope, John T., 4750 Kennerly av
 Popp, Oliver J., 816 Olive
 Powers, Herbert W., 620 Chestnut
 Preisler, Ernst, 918 Pine
 Preuss, Louis, 308 N 6th
 Raby, Geo., 4522 Maffitt av
 Raehiger, Richard, 821 Chestnut
 *Ramsey, Chas. K., 105 N 7th
 Rankin, Jas. C., 211 N 7th
 Rapp, Theo., 2816 Utah
 Riewe, Anton W., 722 Chestnut
 Roach, Harry F., 721 Olive
 Rottler, Leo, 4221 Virginia av
 Schleicher, Fred'k, 1315 Park av
 Scholl, Benjamin, 1438 E Gano av
 Schwiete, Peter, 3905A Kossuth av
 Spiering, Louis C., 721 Olive
 Stauder, Jos. & Sons, 19 S B'way
 Stephens & Pearson, 705 Olive
 Stewart, Frank L., 722 Chestnut
 Swasey, W. Albert, 705 Olive
 *Taylor, Isaac S., 717 Locust
 Theobald, Louis, 3834 Minnesota av
 Traber, Oliver R. S., 122 N 7th
 Trueblood, Wilbur T., 721 Olive
 *Tully & Clark, 319 N 4th
 Victor Arch'l & Bldg. Co., 3447 Pestalozzi
 Wageley, Geo. L., 5971 Easton av
 Wagner, Adolph, 3856 Flora av
 Weakley, Raymond D. & Co., 705 Olive
 Wedemeyer, Wm., 105 N 7th
 *Wees, J. L., 214 N 6th
 Weinmann, Louis E., 721 Olive
 Wesling, August H., 3225 Neosho
 *Wessbecher & Hillbrand, 19 S B'way
 Widmann & Walsh, 105 N 7th
 Wilhelmi, Otto J., 406 Market
 Wright, Alonzo W., 4299 D, Cook av
 Wuest, Gustav P., 105 N 7th
 Zeppenfeld, Richard, 4220 Cal. av
 VANNAH—Skuse, Richard H.
 DALIA—Bast, T. W.
 Strong, E. A.
 RINGFIELD—Foley, W. E., Nat. Ex. Bank
 Reed & Heckenlively, Baladwin Theatre bldg

MONTANA.

LLINGS—Link & Carter
 OZEMAN—Noe, Robert
 UTTE—Kenna, Herman, Minre bldg
 Kern, M. D. & Co., Owsley blk
 Link, J. G. & C. A. Haire, Silver Bow blk
 Nickel, R. A., 16 W Granite
 *O'Brien, W. A., 20 E Quartz
 *Passmore & Co., 25 W Granite
 Prentice, C. M., 301 N Crystal
 Shanley, Geo. H., Miner bldg
 ELENA—Haire, C. S., Power bldg
 Kent, John H., Power bldg
 ISSOULA—Gibson, A. J.
 Kennedy, John H.

NEBRASKA.

BEATRICE—Berlinghof, Geo. A.
 §Cole, G. L.
 Grant, R. W.
 BLAIR—Vaughan, Louis
 COLUMBUS—Pearsall, Jas.
 COUNCIL BLUFFS—Cox & Schoentger
 Woodward, J. C. & W.
 FALLS CITY—Bair, M. N.
 Hofer, A. E.
 FREMONT—Dyer, A. H.
 Seeley, Son & Co. (Grain Elevators a Specialty)
 LINCOLN—Berlinghoff, Geo. A., Burr blk
 Craddock, Jas. H., Capitol blk
 Fisk & Deiman, Richards blk
 Leach, M., Brownell bldg
 Tyler, Jas. & Son, Funk bldg
 Woods, Alfred W., 109 S 10th
 NIOBRARA—Nippel, C. A.
 NORFOLK—Stitt, James C.
 NORTH PLATTE—Thomson, R. D., 127 6th
 OMAHA—Barstow & Lemm, Paxton bldg
 Broline, O. L., Bee bldg
 Brooks, W. S., 1610 Capitol av
 Clarke, Fred'k W., New York Life bldg
 Cleves, Chas., 1st National Bank bldg
 Creedon, P. J., Paxton blk
 Deitrick, J. E., 540 Range bldg
 Findley, W. E., N. Y. Life bldg
 Fisher & Lawrie, Paxton bldg
 Guth, J. P., Paxton blk
 Henninger, F. A., New York Life bldg
 Hicks, I. P., 30th & Fort
 Kimball, Thos. R., McCague bldg
 Krelle, F. W., Bee bldg
 Latenser, Jno., Bee bldg
 McDonald, John, N. Y. Life bldg
 Mason, J. B., Paxton blk
 Misener, W. T., 539 Range blk
 Shields, Alex., 1609 Webster
 Voss, Henry, Ware blk
 White, Kesson, 2014 Farnam
 SOUTH OMAHA—Davis, L. A.
 Kiewit, Jno., Jr.

NEVADA.

HAWTHORNE—Hill, H.
 RENO—Curtis, M. J.
 Schadler, F. M.
 VIRGINIA CITY—Dickson, R.

NEW HAMPSHIRE.

BERLIN—Bates, H. C.
 Gifford, Chas. B.
 CLAREMONT—§Beckwith, H. R.
 CONCORD—Forrest & Cunningham
 Oliver, M. F.
 Randlett & Griffin
 Wheeler, Giles
 DOVER—Brown, George
 Richardson, J. E.
 KEENE—Foster, H. A.
 Spaulding, M. O.
 LACONIA—Davis, A. L.
 LANCASTER—Smith, J. H.
 LISBON—Whitcher, C. R.
 MANCHESTER—Butterfield, W. M. Co.
 Chickering & O'Connell, 1037 Elm
 Fay, Frank A., 852 Elm
 Newman, F. S.
 Provost, W. E.
 NASHUA—Holt, Duane F. & Son, 282 Main
 Locke, Miss Harriet F.
 PENACOOK—Sanders, C. H.
 PORTSMOUTH—Parks, Chas. W.
 Paul, Henry S., 16 Market sq
 ROCHESTER—†Blake, F. H.
 SUNCOOK—Lyford, F. C.

NEW JERSEY.

(Licensed Architects of New Jersey.)

ALLENHURST—Dodge, Fred H.
 ARLINGTON—Adams, Jas.
 Clair, Davies
 Pearsall, Wm. Rice
 Scrimshaw, Jas. F.
 Zachau, Carl F.
 ASBURY PARK—Arend, Ernest A.
 Benner, Elmer C.
 Brazier, Clarence W.
 Cottrell, W. C. & A. F.
 Dodge, Paul L.
 Smith, Clarence W.
 Stroud, Jas.
 ATLANTIC CITY—Hewitt, Wm. S.
 Lippincott, Jos. E.
 Ogden, J. R.

Shumway, Harvey J.
 Stout, Howard A., Bartlett bldg
 Vaughn, S. Hudson
 ATLANTIC HIGHLANDS—Emery, Thos. G.
 Price, Max C.
 BAYONNE—Bagnell, Jas., 25 W 5th
 Collins, D. C. Newman, 570 Av E
 Guise, Philip, 95 W 32d
 Longyear, Arthur C., 41 W 36th
 Reilly, Eugene F., 228 Av D
 Schmidt, Aug., 330 Av C
 Schmidt, J. J., 330 Av C
 Schule, Amand, 360 Avenue C
 BELLEVILLE—Ackerman, Peter D.
 BELMAR—Allen, W. E.
 BERNARDSVILLE—Diehl, James
 BLOOMFIELD—Aimar, L. Jerome
 BOGOTA—Bogart, Cornelius Van Reypen
 BORDENTOWN—Osmond, Chas. S.
 BRADLEY BEACH—Benner, Elmer C.
 BURLINGTON—Allinson, Geo. A.
 CALDWELL—Lockwood, Lynn G.
 CAMDEN—Brooke, Chas. J.
 Jefferis, Joshua C.
 Moffett, Herbert N.
 Moses, Arnold H.
 Stephen, Thos.
 CARLSTADT—Wulling, Jno., Sr.
 CHATHAM—Poole, Geo. E.
 CLIFTON—De Rose, Joseph
 COLLINGSWOOD—Rice, Harry H.
 DOVER—Mullison, Chester D.
 Vreeland, J. J., Jr.
 EAST NEWARK—(See Newark)
 EAST ORANGE—Baker, John E., 62 Morton pl
 Bower, W. Frank, 12 Evergreen pl
 Bowman, Wm. T., 25 S Walnut
 Bush, Irvin J., 132 N Maple
 Eagles, Israel C., 153 N 16th
 Grant, Jos. W., 145 Glenwood av
 Guilbert, Ernest Foss, 43 Carlton
 Hottenroth, Henry A., 36 Hollywood av
 Krug, Geo. E., Metropolitan bldg
 Schmidt, Wm. C., 520 Springdale av
 Teets, Geo. E., 28 Wash'n pl
 Ward, Edw. A., Jr., 68 Vernon Terrace
 Whittmore, Samuel W., 7 Prospect
 EDGEWATER—Hayek, Andrew A.
 ELIZABETH—Beatty, J. B., 72 Broad
 Clum, Wm. E., 210 Broad
 Hoover, W. H., Jr., 244 Broad
 Keimig, Louis J., 419 E Jersey
 Oakley, J. A. & Son, 1201 E Broad
 Poggi, C. Godfrey, 2 Julian pl
 Provost, David B., 78 Broad
 Quien, Louis, Jr., 251 Elizabeth av
 Wind, Jacob, Jr., 208 Broad
 ENGLEWOOD—Aymar, Ernburg H.
 FAIR HAVEN—Chandler, Robt. D.
 FAIRVIEW—Croissant, Eugeni F.
 FREEHOLD—Conover, Warren H.
 GARFIELD—Harrop, Jno. T.
 Warnaar, Henry
 GRANTWOOD—Sibley, Charles E.
 HACKENSACK—Atwood, Leland M., 152 Main
 Cardiff, Jos. A. F., 235 Union
 Collins, Geo., Stanley pl
 Gray, Coleman, Moore st
 Light, Wm. U., Vanderbeck pl
 Read, Dean D., 82 Park
 HADDONFIELD—Remington, Clement
 HARRISON—Arenander, Carl E.
 Kennedy, Joseph
 HASBROUCK HEIGHTS—Johnson, Guy B.
 Morrison, A. B.
 HOBOKEN—Beyer, Max, 81 River
 Brokhaus, Geo. C., 79 River
 Brummerhop, Philip, 118 Park av
 Byers, Albert, River c Hudson pl
 Ciccarelli, Eugene, 2nd Nat'l Bank bldg
 Fall, Chas., 14th & Washington
 French, Mansford F., 40 Eldorado pl
 Meystre, Louis & Son, Newark c Wash'n
 Meystre, Louis & Son, Savings Bank bldg
 Nies, Frank J., 115 Ferry
 Steigleiter, Fred'k, 92 Hudson
 HOHOKUS—West, Edwin, Jr.
 IRVINGTON—Allen, Jos. B.
 Moll, Wm.
 Sonnenberg, Jos.
 JERSEY CITY—Armstrong, John, Jr., 175 Duncan av
 Bonvarlet, Paul, 177 Old Bergen rd
 Eurich, Frank A., 15 Exchange pl
 Delatush, J. C., Westside av
 Feinen, L., Jr., 3649 Boulevard
 Flagg, Geo. A., 534 Summit av
 Giele, Louis H., 147 Hutton
 Guhl, Emil, 19 Charles
 Gumaer, Edward B., 27 Glenwood av
 Hall, Chas. F. A., 562 Newark av
 Helmers, John G., 431 New York av
 Hankin, Walter, 746 Bergen av
 Insley, Edward W., 402 Central av

Jaerschky, Fred'k A., 15 Exchange pl
 Lamster, Edw. J., 6 Mercer
 Lautenslaeger, Gustav, 143 Hutton
 Lindsay, Jas. C., 163 Randolph av
 Long, C. Frederick, 1 Montgomery
 Mortenson, Waldemar H., 30 Prospect
 Neumann, H. & W., 42 Ogden av
 Patterson, Edward M., 76 Montgomery
 Pia, Albert E., 154 Glenwood av
 Quai, Ernest E., 709 Grand
 Randall, Chas. W., 671 Palisade av
 Raymond, H. Newman, 226 Cierk
 Resch, Jno. A., 170 Lexington av
 Ripp, Geo. F., 9 McDougall
 Roberts, Hugh, 1 Exchange pl
 Rossell, Harry Combes, 87 Arlington av
 Rowland, John T., Jr., 15 Exchange pl
 Sailer, Rudolph W., 76 Montgomery
 Smith, Robert P., 576 Newark av
 Tilton, Wm. A., 76 Montg'y
 Trotter, Thos., Jr., 272 Washington
 Von Arx, Geo. W., 15 Exchange pl
 Wielbacher, Philip, 85 Booraem av
 Wolfe, Wm. H., 745 Grand
 Ziegler, Christian H., 76 Montgomery
KEYPORT—Young, H. A.
LAKEWOOD—Thomas, John B.
LOCUST POINT—Vanderhoof, Chas. A.
LONG BRANCH—Chasey, Geo. V.
 Cubberly, Leon
 Seymour, Hugh B.
 Sutphen, Jno. H.
MAPLEWOOD—Main, Lucius Clark
MAURER—Liebau, Gustav H.
MERCHANTVILLE—Morton, John Edgar
MILLBURN—Dow, J. W.
MONTCLAIR—Bloodgood, Wm. E., 9 Gates av
 Fisher, H. Messinger, 764 Bloomfield av
 Lockwood, Jesse H., 760 Bloomfield av
 Myers, Christopher, 400 Bloomfield av
 Norris, Albert F., 261 Claremont av
 North, Efigham R., 483 Bloomfield av
 Styles, John E., 64 Willowdale av
 Thomson, Wm., 118 Walnut
 Van Antwerp, Dudley S., 483 Bloomfield av
 Vickers, Arthur, 26 Waterbury rd
 Weeks, Raymond D., 460 Bloomfield av
 Yost, Henry L., 431 Bloomfield av
MONTCLAIR HEIGHTS—Simpson, Alfred W.
MOORESTOWN—Le Coney, Wm. G.
MORRISTOWN—Bower, Geo. W.
 Bower, S. Lorenzo
 Mills, Geo. A.
 Pierson, Walter B.
 Taylor, Harry M.
 Walsh, Robt. C.
 Weir, Collins B.
MURRAY HILL—French, C. Abbott
NEWARK—Ackerman, Chas., 762 Broad
 Apgar, Jno. A., 233 5th
 Aschenbach, Walter J., 51 Wakeman av
 Avercamp, Francis, 43 Sterling
 Backoff, Geo. W., 22 Clinton
 Baechlin, Henry, 45 Clinton
 Baker, John E., 828 Broad
 *Baldwin, Chas. P., 45 Clinton
 Bertrand, Chas. F., 800 Broad
 Bottelli, R., 191 Market
 Broome, L. H., Newark Arcade
 Byles, Chas. J., Prudential bldg
 Campbell, Geo. W., 171 Broad
 Campbell, Robt. F., 58 Miller
 Capen, John F., 45 Clinton
 Charles, Peter, 15 Clinton
 Conklin, H. King, 45 Clinton
 Connelly, Arthur, 142 Market
 Cook, J. Fred., 45 Clinton
 Cressey, Thomas, 800 Broad
 Dodge, Harvey E., 35 Halsey
 Dulje, Chas. T. R., 52 Wash'n av
 Eisenbiegler, Wm. M., 189 Market
 Ely, J. H. & W. C., 800 Broad
 Erler, Richard W., 45 Clinton
 Gifford, Chas. A., 763 Broad
 Grant, Edw. E., 397 Washington av
 Hasselman, Fred'k R., 185 Market
 Havell, Hy. D., 22 Clinton
 Heintzelman, Andrew, 73 Burnet
 Heyne, Aug. D., 810 Broad
 Hicks, Thomas E., 810 Broad
 Higby, Gilbert C., 45 Clinton
 Hooper & Co., 122 Market
 Hughes, T. Cecil, 22 Clinton
 Hurd & Sutton, Union bldg
 King, Hy. J. & J. V., 22 Clinton
 Kitchell & O'Rourke, 738 Broad
 Knopf, Chas., 444 Springfield av
 Kreidler, Herman, 45 Clinton
 Lehman, Wm. E., 738 Broad
 Linnett, Wm. M., 526 Central av
 MacLagen, Peter T., 751 Broad
 McMurray & Pulis, 22 Clinton
 Marsh, Wm. D., 22 Clinton
 Metzger, Herman, 240 Market

Moore, Elihu P., 3 Wakeman av
 Myers, Nathan, 238 Wash'n
 Neumann, A. C., 800 Broad
 *O'Rourke, Jeremiah & Sons, 7 Clinton
 Peter, Alfred, 238 Washington
 Phelps, Frederick A., 15 Clinton
 Phillips, Albert, 70 Park pl
 Pigott, Jas. S., 15 Clinton
 Reeve, H. E., 818 Prudential bldg
 Rizzolo & Gonnelli, 128 Market
 Rosensohn, Hyman, 188 Market
 St. John, Jas. S., 319 Bank
 Schoenig, Wm. K. & Son, 418 Springfield av
 Sellick, Robert, 222 Market
 Silberstein, M. B., 44 West
 Simpson, Lyall R., 19 Summit
 Staehlin, Gustavus, 238 Wash'n
 Steinbrenner, Chas. L., 118 Market
 Stokem, Adolphus W., 229 S 11th
 Strombach, J., 238 Washington
 Swinnerton, Jas. C., 351 Clifton av
 Thomson, A. H., 222 Market
 Truex, Fred'k M., Prudential bldg
 Umbach, Emanuel, 4 Academy
 Valentine, Chas. M., 270 Passaic
 Virtue, Lincoln A., 4 Academy
 Walters, Alfred, 45 Clinton
 Warren, Edward V., 22 Clinton
 Warren, John B., 22 Clinton
 Ward, Chas. W., 194 N 6th
 Wehrle, Martin J., 1000 S Oranve av, V
 Weiler, Henry J., 167 Hamburg pl
 Wurth, Ed. A., 75 Market
NEW BRUNSWICK—Blish, J. Arthur, 563
 Boylan, Wm. H., 349 George George
 Merchant, Alex., 384 George
 Parsell, Geo. K., 363 George
 Williamson, D. D., 384 George
 Wright, Pascal L., 74 Jersey av
NORTH BERGEN—Marcy, Paul A.
NORTH PLAINFIELD—Clum, Wm. H.
 Smith, Chas. H.
NUTLEY—Lambert, Wm. A.
 Thomson, Arthur H.
OCEAN CITY—Champion, Jos. G.
OCEAN GROVE—Carman, Wm. H.
ORANGE—Colt, Samuel S., 35 New Essex av
 *Eichhorn, Augustus, 81 Essex av
 Lamb, John J., 222 Main
 Hasselman, Fred'k R., 626 Park av
 McCulloch, Robt. A., 80 Hillside av
 Marsh, Jos. J. & Fred T., 17 Cone
 Melendy, Geo. E., 204 Center
PASSAIC—Doane, Edward P., 185 Main av
 Fritz, Herman, News bldg
 Kelly, Jno. F., P. O. bldg
 Meeker, Wm. M., 187 Main
 Prieskel, Abram, Hobart Trust bldg
 Seebass, Alex., 85 Quincy
 Strong Lambert, Main & Harrison
 Tennis, Peter J., Hobart Trust bldg
 Twist, Ernest E., 229 Main
 Van Winkle, Cortlandt J., 257 Main av
 Waterhouse, Chas. B., 257 Main av
 Witte, Aaron, 128 Madison
 Wynne, Henry P., 208 Bloomfield av
PATERSON—Ackerman, Wm. S., 151 Fair
 Carlough, Wilbur H., 920 Madison av
 Crosby, Henry B., Jr., First Nat. Bank bldg
 Christie, Wm. Wallace, 140 Market
 Dickinson, W. Elbert, 126 Market
 *Edwards, Chas., Market & Main
 Fanning, Wm. T., Colt bldg
 Godeffroy, Richard, 140 Market
 Gutherson, Wm. T., 684 E 18th
 Houman, Marinus, 10 Park av
 Hutchinson, Robert C., 289 Ellison
 Males, Valard L., 223 Summer
 O'Neill, Wm. H., 153 Slater
 Parsons, F. Y., 329 E 30th
 Post, John H., 12 Hamilton
 Rahm, August J., 140 Market
 Rogers, Samuel, Paterson Sav. Inst. bldg
 See, Chas. Edgar, 422 Ellison
 Sleight, Chas. H., Romaine bldg
 Stephens, Harry Thornton, United B'k bldg
 Vanlent, Abraham, 163 Franklin
 Van Winkle, Franklin, Colt bldg
 Vermeulen, Wm. Christian, First National
 Bank bldg
 Wentworth, Fred. W., Citizens' Trust Co.
PERTH AMBOY—Dayton, J. H. bldg
 Growney, Jas.
 Jensen, Jeno K.
 Smith, Howard
PLAINFIELD—Force, Chas. L., 43 Mountain av
 Fosgate, Blanchard, 820 Park av
 French, Edw. V., 143 North av
 Karr, Corydon P., 1108 Putnam av
 Lancaster, Fred L., First Nat'l Bank
 Marsh, Augustus L. C., 822 Hillside av
RAHWAY—Ryno, W. L.
RED BANK—Shoemaker, Wm. A.
 Swannell, Jos.

RIDGEFIELD PARK—Crandall, Edgar A.
 Lozier, Cyrus J.
 Mehrhof, Chas. E.
RIDGEWOOD—Clinton, De Witt, Jr.
 Fornachon, Maurice
 Houston, Fred'k K.
 Keyser, Chas. S.
 Zabriskie, Walter C.
ROSELLE PARK—Broome, Jos.
ROSELAND—Cass, W. Earle
RUTHERFORD—Barrows, Allan M.
SEABRIGHT—Jahnes, Nath'l
SOMERVILLE—Vanderbeek, Jacques
 Van Nuys, P. C.
SOUTH ORANGE—Baldwin, Chas. Henry
 Duncklee, Jno. B.
 Sieder, August, Jr., 140 Poland av
SPRINGFIELD—Carter, Wm. P.
SUMMIT—Cady, Jno. N.
 Penniman, Julian A.
 Shapter, Rich. S.
 White, Benj. V.
TOWN OF UNION—Borries, Wm. E., B'way &
 Butz, Geo., 144 Bergenline av 4th
 *Diemer, Philip H., 128 Humboldt
 Vivarttas, Percie A., 452 Palisade av
TRENTON—Bamford, Wm. Brokaw, Hamilton
 & Chestnut
 Klemann & Fowler, First National Bank
 Endebrock, Wm. P., 135 E State bldg
 Finch, Hy. E., 144 E State
 Harold, John W., 900 Brunswick av
 Hill, Harry A., 40 E State
 Keeler, G. W., 138 W Hanover
 Poland, W. A., 204 Hillcrest
 Slack, W. W., 18 E State
 Swan, Abram, Broad Street Bank bldg
UPPER MONTCLAIR—Dodd, Jno. C.
 Sigler, Ira
WALDWICK—Smith, Geo. B.
WATCHUNG—Kutz, Sam'l J.
WEEHAWKEN—Dixon, Robert C., Jr., 148
 French, Ransford M. Bulls Ferry rd
 Huberti, Fritz, 117 Boulevard
 Lockington, Wm. H., 17 3d
 Lugosch, Jas. D., 540 Palisade av
 Wilmington, Harvey V., 40 3d
WESTFIELD—Collins, Edw. R.
 Robinson, Robt. L.
WEST HOBOKEN—Hensel, Fred A., 248 Sum-
 mit av
 McDermott, Edw., 582 Spring
 McIntyre, G. B., Bank bldg
 Singer, John, Jr., 414 Spring
 Soldwedel, Nicholas, 349 Clinton av
WEST NEW YORK—Turck, Jos.
WEST ORANGE—Roos, Carl L.
WESTVILLE—Dickinson, Frank L.
WHIPPANY—Geggenheimer, John P.
WOODBURY—Peddle, Chas. R.

NEW MEXICO.

ALAMOGORDO—Abbott, E. M.
ALBUQUERQUE—Balcumb, R. G.
 Cristy, Edward Buxton
 La Driere, J. L.
 Spencer, E. W.
ALGODONES—Balcumb, R. G.
LAS VEGAS—Holt & Hart
ROSWELL—Nelson, J. M. & Co.

NEW YORK.

ALBANY—Brainard & O'Connor, 131 Elk
 Brownell, C. H., 119 State
 Emery, Marshall L., 42 N Pearl
 *Fleischman, Adolph, 59 N Pearl
 Fuller & Pitcher, 95 State
 Hoffman, Ernest, 3 N Pearl
 La Rose, A. W., 101 Yates
 Obenaus, Wm. J., Bensen bldg
 Ogden, C. G., 63 State
 Reynolds, Marcus T., 100 State
 Rose, Robert J., Empire Theatre
 Ryder Architectural Co., 356 State
 Schade, Wm. C., De Graaf bldg
 Selkirk, Alex., 31 N Pearl
 Woollett, Wm. L. & J. W., 57 State
ALTA MONT—Wright, W. D.
AMSTERDAM—Cassidy, David D., Jr.
 Hodge, F. H.
ASTORIA—(See N. Y. City, Borough of Queens)
AUBURN—Armstrong, Frank H., Steward blk
 Conklin, Mark, Steward blk
 Elliott, J. M., Steward blk
 Hillger, Samuel E., Steward blk
BABYLON—Kellwin, H. J.
 Van Weelden, H.
BALDWIN—Carretto, Gustave
BATAVIA—Homelius, H. W. & Son
 +Howard, Merritt
 +Hyde, M. P.
BAY SIDE—(See N. Y. City, Borough of Queens)

BINGHAMTON—Dickerman, E. W., 3 Chenango
Gardner, H. A., Ackerman bldg
Lacey, Sanford O. & H. A., Phelps Bank
bldg
*Lacey, T. I. & Son, Kilmer bldg
Vosbury, C. Edward, Binghamton Savings
Bank bldg
Whitlock, Walter H., Security Mutual bldg
BREWSTER—Waite, Frank E.
BROOKLYN—See New York City, Borough of
(Brooklyn)
BUFFALO—Back, Nicholas F., 37 Alexander pl
Bayer, Chas., Erie County Bank bldg
Beck, Howard L., Erie County Bank bldg
Berry, S. R., 445 Breckenridge
*Bethune, Bethune & Fuchs, 215 Franklin
Brickell, W. S., 595 Ellicott sq
Cary, George, 184 Delaware av
†Caudell, Wm. M., 397 W Utica
Colson-Hudson, 35 Dun bldg
*Coxhead, John H., 928 Ellicott sq
Dell, Emerson C., D. S. Morgan bldg
Dell & Nichols, Stafford bldg
Eckel, L. P. J., 191 York
*Esenwein & Johnson, Ellicott sq
Fayfield, Robt. C., Ellicott sq
Gaskin, Edw., Ellicott sq
*Green & Wicks, 110 Franklin
*Harris, T. W., Erie Co. B'k bldg
*Holland, H. O., Mutual Life bldg
*Kent, Edw. A., Ellicott sq
Kirkpatrick, Robt. A., Chapin blk
*Lansing & Beierl, 371 Pearl
*Little, Hy. H., 56 Norwood av
McCreary, Wood & Bradbury, Mut. Life bldg
Marvin, Percy L., German Ins. bldg
Mathewson & Parsons, 52 Niagara
*Metzger, Edward, Prudential bldg
Metzger, Geo. J., 19 W Huron
Miller, M. C., Mutual Life bldg
Minks, A. & Son, 191 14th
Moeller, Edw'd H., 393 Pearl
*Mohr, Fred., 265 E Utica
Oberkircher, J., 46 Orange
*Orr, Ulysses G., 32 Builders' Exchange
Paul, Emil C., 797 Main
*Porter, Cyrus K. & Sons, 73 W Eagle
Post, A. A., Brisbane bldg
Reidpath, Robert J., Builders' Exchange
Saenger, Louis, 43 Kretzner
*Schmill & Gould, Law Exchange
*Schmolle, Wm. L., Stafford bldg
Schurman, Frank M., 18 Maple
Setter, Geo. A., 224 Fugeron
Sinner, John G. & Co., White bldg
Townsend & Fleming, Prudential bldg
Von Herbulis, A. D., White bldg
*Waite W. T., 13 Ger. Ins. bldg
*Wallace, Robert A., Builders' Exchange
Wannenwetsch, O. H. A., 563 William
Zawadzki, W. H., 856 Fillmore av
CARTHAGE—Patterson, A. W.
CATSKILL—Beardsley, C.
Warner, Geo. H.
CENTRAL SQUARE—Smith, Thos.
CHATHAM—Coon, Louis
Hunt, Alfred
COHOES—†Goddard, Wm. M.
Van Auker, Chas. H.
Van Auker, David H.
COOPERSTOWN—Edgerton, C. C.
CORNING—Tuthill, H. G. & Son
CORNWALL—Woolley, John
CORNWALL LANDING—Taylor, H. R.
CORONA—(See New York City Borough of
Queens)
CORTLAND—Howes, M. F. & Son
DEPEW—Glade, John C.
EAST HAMPTON—Lawrence, J. Custis
EAST SETAUKET—Lyons, T. H.
ELMHURST—(See New York City, Borough of
Queens)
ELMIRA—Considine, J. H., 323 Carroll
Dockstader, Otis, 103 W Church
Ingham, J. Q., 376 W Gray
*Pierce & Bickford, 118 Lake
ELLINGTON—†Architectural Acoustics Co.,
Kelley, E. Henri
EVERGREEN—(See New York City, Borough
of Queens)
FAR ROCKAWAY—(See New York City, Borough
of Queens)
FLUSHING—(See New York City, Borough of
Queens)
FREDONIA—Curtis, E. A.
FREEPORT—Seaman, A. L.
FULTON—Cross, W. D.
GENEVA—Adams, Lloyd P.
GLENS FALLS—Lawrence, W. E.
Potter, E. B.
GOUVERNEUR—†Johnson, Jas. H.
†Stacy, Geo.
HASTINGS UPON HUDSON—Hastings, Foster
HORNELLVILLE—†Feehan, John L.
HUDSON—Moul, H. S.
O'Connor, M.

ITHACA—Gibb & Waltz, Trust Co. bldg
Miller, Wm. H., Sage blk
Vivian, Clinton L., 120 E State
Wilgus, Jno. M., 6 Wilgus blk
Wood, Alvah B., 122 N Aurora
JAMESTOWN—Hall, Aaron & Son
Morrison, J. Willard
JAMAICA—(See New York City, Borough of
Queens)
KINGSTON—Rice, Thos. P.
Teller, Myron S., 280 Wall
LARCHMONT—Butterfield, Alonzo O.
LITTLE FALLS—West, C. D.
LOCKPORT—Sylvester, J. W., 16 Pound
LONG ISLAND CITY—(See New York City,
Borough of Queens)
LOWVILLE—†Rich, W. H. Son & Co.
MALONE—Conant, Henry N.
MAMARONECK—Ledy, Andrew
Perin, H. Corbey
Will, Edwin R.
MARATHON—†Holmes, John
MASPETH—(See New York City, Borough of
Queens)
MATTEAWAN—Van Slyck, C. B.
MECHANICSVILLE—La Dow, J. S.
MIDDLETOWN—Canfield, D. H.
Lindsey & Son
Staib, Kester W.
MOUNT VERNON—Guttenberg, S. A., 37 Pros-
pect av
Jenks, A. Murray, 42 S 4th av
Lucas, Herbert, Lucas bldg
MacKenzie, Colin, 136 Union av
Perry, James, 2 Park av
Rapeye, Henry S., P. O. bldg
Stickles, Walter F., P. O. bldg
NAPANOCH—Norden, Andrew B.
NEW BRIGHTON—(See New York City, Bor-
ough of Richmond)
NEWBURGH—Estabrook, Frank E., 75 2d
Sneed, Frederick M., 56 2d
NEW ROCHELLE—Birdsell, Christ J., 251
Huguenot
Burchell, Nath'l J., 51 Maple av
Lupprain, Chas. A., 244 Main
Pagan, Frank D., 192 Main
Sundberg, August, 280 Main
Winter Frederick E., 290 Main
Youngs, W. H. W.

NEW YORK CITY.

Borough of Brooklyn.

BROOKLYN—Adams, Frank, 67 N 14th av
Allmendinger, Louis, 926 B'way
Bennett, Thos., 311 52d
*Berger, Louis & Co., 300 St. Nicholas av
Berlenbach, Francis J., Jr., 260 Graham av
Brewster, Herbert R., 307 Washington
Buchar, F. W., 1774 Pitkin av
Cannella & Samenfeld, 306 Pennsylvania av
Cassin, Walter L., 375 Fulton
Curtiss, Samuel, 213 Montague
*Danacher, Louis, 256 E. N. Y. av
Dangler, Harold C., 44 Court
Danmar & Co., Liberty & Thatford av
Debus, Wm., 808 B'way
Dennis, Ernest, 591 Liberty av
Driesler, Benj., 13 Willoughby
Engelhardt, Theobald, 905 B'way
Erda, Gustave, 824 Manhattan av
Finkensieper, Benj., 134 B'way
Fischer, Adam E., 862 Bushwick av
Fish, Ferdinand & Co., 1099 Flatbush av
Foley, Michael F., 2247 Homecrest av
Freeman, Jno. J., 69 Douglass
Funk, H., 300 Snyder
Gaylor, Edw. F., 84 B'way
Gibbons, Austin, 70 Graham av
Glover, J. G., 186 Remsen
Glover, Jno. L., 186 Remsen
Hanson, Ernest, 213 Montague
Haviland, Chas. S., 152 Bay 19th
Heberd, Chas. E., 134 B'way
Heck, Charles H., 5 Court sq
Hedman, Axel S., 367 Fulton
Helmle & Huberty, 190 Montague
Hendrickson, Eugene H., 117 Ainslie
Hirsehorn, Paul H. A., 539 Atlantic av
Holder, Henry Jr., 242 Franklin av
Houghton, Thos. F., 213 Montague
Hudson, Benj. F., Ocean Parkway & Ft.
Hamilton av
Hunt & Hunt, 189 Montague
Infanger, Chas., 2632 Atlantic av
Jezek, Julius A., 1703 B'way
Jones, Albert Jas., 260 Clarkson
Kennedy, J. Sarfield, 44 Court
Kenny, Geo. W., 350 Fulton
Kern, Christian E., 766 Flatbush av
Koch, Arthur R., 26 Court
Koch, Henry H., 48 B'way
Kreinbrink, Chas. J., 26 Court

Le Quesne, C. A., 779 E 32d
Lowe, Frank S., 186 Remsen
McDonald, Jas. A., Surf av & W 24th
McKillop, Jas., Jr., 154 India
Merritt, Jas. H., 44 Court
Miller, Geo. M., 44 Court
Millsbaugh, G. Edw., E 13th & Av. U
Morse, George L., 307 Washington
Mullin, C. Whitley, 189 Montague
Mumford, John, 189 Montague
Murphy, Sylvester P., Bath av n Bay 34th
Niebel, Jacob C., 59 Court
Parfitt, Albert E., 26 Court
Parfitt Bros., 26 Court
Pierce, A. White, 1129 Flatbush av
Rasmussen, R. T., 30 Graham av
Reynolds, Herbert B., 1515 Bedford av
Rissler, Andrew, 955 B'way
Roosen, Geo. F., 189 Montague
Ross, A. W., 540 Carlton av
Ryan, Wm. J., 164 Ryerson
Schillinger, L. F., 167 Van Slicklen av
Schmidt, S. H., 1169 Myrtle av
Shampan & Shampan, 772 B'way
Short, R. T., 2975 Fulton
Silkworth, Chas. E., Jr., 44 Court
Skrzynecki, Gustav A., 350 Fulton
*Slee & Bryson, 189 Montague
Spicer, H. L. & D. H., 369 Fulton
Stark, Jos. A., 1367 Broadway
Thimmes, Jacob, Jr., 245 DeKalb
Tillion, Philemon, 776 Manhattan av
Ulrich, Albert, 373 Fulton
Ultzen, William, 612 Herklmer
Van Cleef, Henry C., 49 Court
Vollweiler, Hy., 696 Bushwick av
Von Hograf, Jno., Surf av & W 23d
Voorhies, Chas. S., Neck rd nr Ocean P'kway
Voss, Louis H., 65 De Kalb av
Walsh, John C., 1294 Fulton
Werner, Chas., 26 Court
Whipple, Henry D., Ocean av & Av T
*Wilhelm, Richard B., 320 57th
Wills, Walter B., 32 Ditmars
Wilson & Dassau, 1373 B'way
Wuuder, Fred'k & Son, 957 B'way

Boroughs of Manhattan & Bronx

NEW YORK—Ach, David M., 1 Madison av
*Adams & Warren, 20 W 34th
Aiken, Mm. Martin, 33 Union sq, W
*Albrecht, Frederick E., 655 Kingsbridge r
Albro & Lindeberg, 281 5th av
Allen, Augustus N., 569 5th av
Allen, Jerome R., 345 5th av
Allen, J. Warner, 27 E 22d
Allen, Paul R., 1133 B'way
Allen & Collins, 1170 B'way
*Almirall, Raymond F., 51 Chambers
*American Institute of Architects, N. Y.
Chapt., 215 W 57th
Andersen, Henry, 138 E 22d
*Anderson, Geo. H., 156 5th av
Anderson, R. Napier, 63 5th av
Andrews, Frank M., Waldorf-Astoria
Architectural Associates, 112 W 42d
*Architectural League of New York, 215 W
57th
Arcander, Arthur, 523 Bergen av
*Atterbury, Grosvenor, 20 W 43d
Atwood, Daniel T., 203 B'way
Audsley, W. & G., 41 Union sq, W
Auslander, Alfred, 3 W 29th
Avolin, Hugo, 963 Stebbins av
*Babb, Cook & Willard, 5 W 29th
Bacon, Henry, 160 5th av
Baer, Herbert M., 542 5th av
Baker, Hewitt S., 492 E 138th
*Baker, Jas. B., 156 5th av
Balch, Wm. A., 5 W 31st
Ballantyne, Henry F., 244 5th av
Bannister & Schell, 69 Wall
Barber, Donn, 24 E 23d
Barkhausen, Cruess & Livermore, 1133 B'way
*Barlow, Alfred E., 5 W 31st
*Barney & Chapman, 520 5th av
*Bartlett, George M., 15 Broad
Bates, Wm. A., 5 W 31st
Baudesson, Udo S., 685 Jackson av
Baxter, Chas. & Son, 360 Alexander av
Baylies, Franklin, 34 Bible House
*Beale, Frank M., 58 W 57th
Beatty & Stone, 55 B'way
Beers, Wm. H., 5 W 31st
Bell, Algeronn S., 320 5th av
Benedict, Eli, 1947 B'way
Benedict, Wm. K., 38 E 21st
*Benson, J. P., 571 5th av
Bent, Francis H., 110 E 23d
*Berg, Chas. I., 571 5th av
Berger, Bruno W. & Son, 121 Bible House
Berger, Fred'k J., 121 Bible House

Berger, Richard, 309 B'way
 Bergesen, John, 24 State
 Bergh, Louis De Coppet, 457 W 23d
 Bernstein & Bernstein, 24 E 23d
 Betts, Edw. Stuart, 36 E 23d
 Birge, Charles E., 29 W 34th
 Birkinire, Wm. H., 396 B'way
 Blondel, Theodore, Jr., 542 5th av
 Bloodgood, Wm. E., 475 5th av
 Blumner, Oscar, 29 W 42d
 Blumenstein, Paul, 28 E 23d
 Boehm, Geo. A., 7 W 42d
 *Boebmer, Arthur, 4197 3d av
 *Boeckell, Julius, 147 E 125th
 Boese, John, 280 B'way
 *Bonagur, Vincent, 971 Home
 *Borle, John, 1133 B'way
 *Boring & Tilton, 32 B'way
 Bossange & Newton, 3 W 29th
 Bosson, Alfred C., 55 W 33d
 Bosworth, Wm. W., 527 5th av
 Bosworth & Holden, 1170 B'way
 Bowdoin & Norville, 318 Lenox av
 Bowdoin & Normile, 318 Lenox av
 Boyd, Jno. D., 1123 B'way
 Boyd, Wm. S., 561 Hudson
 Brandt, John & Louis, 1511 3d av
 Braun, Henry H., 114 E 28th
 Brazer, Clarence W., 1133 B'way
 Brendon, Chas. & Co., 500 5th av
 *Brick, Samuel R., Jr., 1 B'way
 Brite, Jas., 111 5th av
 Brogan, Patrick F., 119 E 23d
 Broome, Joseph, 123 Liberty
 Brower, John, 1133 B'way
 Brawer, Silas B., 224 5th av
 *Brown, Edward J., 1143 E 175th
 Browne, Fred'k C., 143 W 125th
 Brubaker, Samuel H. & Co., 45 B'way
 Brun, Clement B., 1 Madison av
 *Brunner, Arnold W., 33 Union sq, W
 Buchman & Fox, 11 E 59th
 Buckham, Chas. W., 307 5th av
 Budd, K. C., Bible House
 Buek, Chas., 500 5th av
 Bunce, J. Oscar, 1133 B'way
 Burnett, Edward, 11 E 24th
 Burnham, D. H. & Co., 13 Astor pl
 Busselle, Alfred, 1133 B'way
 Butler & Rodman, 16 E 23d
 Cable, Wm. A., 1183 B'way
 *Cady & See, 6 W 22d
 Caldwell, Chas. H., 160 5th av
 Campbell, Jas. L., W 163d & Woodcrest av
 Candler, Duncan, 27 E 22d
 *Carpenter, Blair & Gould, 475 5th av
 *Carrere & Hastings, 225 5th av
 *Casey, Edw. P., 1 Nassau
 *Cashman, John B., 1 B'way
 Caswell, Kenneth L., 1123 B'way
 Chamberlin, G. Howard, 1183 B'way
 *Chambers, Walter B., 35 Wall
 Chapman, Henry Otis, 334 5th av
 Chapman, Howard, 1123 B'way
 Chapman, Josephine W., 11 W 8th
 Chapman, W. Osborn, 41 W Union sq
 Chappell & Bosworth, 41 W 24th
 Chard, Thornton, 105 E 22d
 Chestersmith, Edw. B., 60 B'way
 Child, Edw. S., 17 State
 Chipman, Charles C., 220 B'way
 Clafin, Fuller, 1440 B'way
 Clafin & Kent, 27 E 22d
 *Clark, Chas. S., 709 Tremont av
 Cleverdon & Putzel, 41 Union sq, W
 *Clinton & Russell, 32 Nassau
 Cobb, Henry Ives, 42 B'way
 Cobb, W. R., 1133 B'way
 Cocker, Jos. C., 103 E 125th
 Coco, Peter M., 114 E 23d
 Codman, Ogden, Jr., 569 5th av
 Cole, Jas. W., 403 W 51st
 *Colley, Chas. E., 154 Nassau
 Collin, Dwight R., 335 Madison av
 Colt, Stockton B., 287 4th av
 Colton & Anable, 3 E 28th
 *Congdon, Henry M. & Son, 18 B'way
 Conover, Warren H., 116 W 33d
 *Constable, Howard, 14 E 23d
 Constable, Stevenson, 22 E 16th
 *Cooper, Jas. E., 20 W 31st
 Co-operative Architects, 17 B'way
 Copeland & Dole, 135 William
 Corbett, Harvey Wiley, 31 Union Sq
 Cornell, Frank T., 125 E 23d
 Costello, Chas. A., 450 W 40th
 *Covell, Wm. S., 1170 B'way
 Cox, Jno., Jr., 156 5th av
 Cram, Goodhue & Ferguson, 170 5th av
 Cramer, Lester A., 1133 B'way
 Crawley, Geo. A., 29 W 34th
 Cregier, Henry E., 346 B'way
 *Crompton, Wm., 60 B'way

*Cromwell, J. William, Jr., 3 W 29th
 Crute, Stephen, 320 B'way
 Cubberley, Leon, 1 Madison av
 *Cutter, Manly N., 242 4th av
 Darrach & Beekman, 1133 B'way
 Darsh, Chas. H., 1133 B'way
 Daus, Rudolph L., 130 Fulton
 Davidson, J., E 227th, Williamsbridge
 Davis, Albert E., 494 E 138th
 Davis, Edw. H., 20 W 31st
 Davis, McGrath & Shepard, 1 Madison av
 Day, Wm. H. & Co., 437 5th av
 Dean, Cyrus F., 1123 B'way
 *Deane, E. Eldon, 503 5th av
 DeForrest, Lockwood, 7 E 10th
 *De Gerdtsdorff, Geo. B., 1133 B'way
 *De Hart, John, 1039 Fox
 Dehli & Howard, 229 B'way
 Delano & Aldrich, 4 E 39th
 Dell, Louis E., 1133 B'way
 Denby & Nute, 333 4th av
 Dennis, Stanley A., 235 B'way
 Detwiller, Chas. H., 95 Nassau
 Devoe, Henry M., 500 Park av
 Dewsnap, Wm., 150 Nassau
 Dietrich, Chas. Henry, 42 Union sq, E
 Dietrich, E. G. W., 30 E 20th
 Dillon, Arthur, 1 Nassau
 Dillhey, Wm. J., 3 Union sq, W
 Dissoway, C. M., 38 E 21st
 Dodge & Morrison, 82 Wall
 D'Oench & Yost, 289 4th av
 Dominick, Wm. F., 3 W 29th
 Donnell, Harry E., 3 W 29th
 Drake, B. Delancey, 5 W 31st
 Drew, Geo. E., Jr., 10 Bridge
 Duboy & Jallade, 173 5th av
 *Du Pais, John L., 333 4th av
 Duncan, Arthur M., 15 William
 *Duncan, John H., 208 5th av
 Ebeling, Bernhard, West Farms rd, Van Nest
 Ebeling, Fred, 420 E 9th
 *Eidlitz & McKenzie, 1123 B'way
 Eisendrath, Simon B., 41 W 24th
 Ellis, Irving B., 257 B'way
 Ellis, Edmund L., 1133 B'way
 Embury, Aymar, 1133 B'way
 *Emerson, Wm., 281 5th av
 *Emery, M. L. & Hy. G., Bible House
 Evans, A. F., 25 W 20th
 Ewell, Van Wart & Co., 129 W 125th
 Ewing & Chappell, 345 5th av
 Eyre, Wilson, 35 W 21st
 Falk, Louis, 2585 3d av
 Farnsworth, Jas. M., 489 5th av
 Faxon, John Lyman, 170 5th av
 Fearon, Francis G., 32 B'way
 Feisler, Henry J., 150 Nassau
 *Ficken, H. Edwards, 10 W 22d
 Finkle, Alex. I., 114 E 23d
 Fischer, Adam E., 23 Park row
 Fischer, F. Wm., 24 E 23d
 Fitz-Mahony, Michael J., 29 W 42d
 Flagg, Ernest, 35 Wall
 Fletcher, Arthur G. C., 1133 B'way
 Ford, Stewart & Oliver, 37 W 31st
 Forman & Light, 40 Cedar
 Foster, Gade & Graham, 281 4th av
 Fouchaux, Henri, 105 Hudson
 Fowler, J. Chandler, 132 Nassau
 *Franke, Wm. B., 401 West End av
 Franklin Engineering Co., 346 B'way
 Franklin, Jno. B., 335 B'way
 *Freedlander, Jos. H., 244 5th av
 Freeman, Frank, 132 Nassau
 Freeman, Geo. A., 566 5th av
 Friend, Jno. H., 148 Alexander av
 Frohne, Wm. C., 24 E 23d
 Fryer, Wm. J., 26 Cortlandt
 Fuerst, Jean E., 281 4th av
FULLERTON, CLARENCE A. (Specialists in Fireproof Interiors, Bank, Offices, Public Buildings, Etc.), 5 & 7 E 42d
 *Gage, S. Edson, 3 Union sq, W
 Gallade, Louis E., 1170 B'way
 Gallauer, Edmund, 114 Nassau
 Gardner, Robert W., 122 W 29th
 Garvin, Michael J., 3307 3d av
 *Gavigan, Jas. J. F., 1123 B'way
 *Gay, Chas. M., 24 E 23d
 Geilhard, Robert J., 67 W 125th
 Georgi, Edwin C., 603 E 83d
 Gerber Fred'k A., 82 Bible House
 Getz, Jno., 20 W 34th
 *Gibson, Robert W., 76 William
 *Gifford, Chas. Alling, 36 E 23d
 *Gilbert, Bradford L., 50 B'way
 *Gilbert, Cass, 11 E 24th
 *Gilbert, Chas. P. H., 1123 B'way
 *Gildersleeve, Raleigh C., 150 5th av
 Giller, Louis, 416 B'way
 Gillespie, G. Curtis, 7 Warren
 Gillespie & Carrel, 1123 B'way

Gilmour & Warhurst, 164 W 120th
 Ginsburger, Emil, 130 Fulton
 Glasser & Ebert, 70 Manhattan
 Glenn, Robert, 610 E 150th
 Goldner & Goldberg, 702 Jackson av
 *Goldstoue, L. A., 110 W 34th
 Gollner, Ervin G., 177 B'way
 *Gooch, Wm. Tyson, 84 William
 Goodwillie, Frank, 1170 B'way
 Gordon, Tracey & Swarthout, 244 5th av
 Gottlieb, Albert S., 156 5th av
 Gould, Carl F., 1170 B'way
 Graham, Robert Dun, 281 4th av
 Graham, Thomas, 192 Lincoln av
 Grand Central Station Architects, 314 Madison av
 Grauert, Emile W., 10 W 22d
 Gray, Albert M., 1402 B'way
 Green, Franklin A., 500 Park av
 Greene, Ernest, 5 Beekman
 Greenfield, Robert A., 8 Bridge
 *Greenley, Howard, 12 W 40th
 Griebel, Geo. H., 2255 B'way
 Griffin, Percy, 244 5th av
 *Griffith, Vincent Coyler, 96 5th av
 Grimes, Marshall R., 39 E 42d
 Gross, Sam'l, 348 E 84th
 Gross & Kleinberger, 75 Bible House
 Gurd, Jno. A., 1193 B'way
 *Haight, Chas. C., 452 5th av
 Hale & Rogers, 11 E 24th
 Hamilton, C. C., 1 Madison av
 *Hamilton, John A., 32 B'way
 Hammond, Fred'k, 943 Wash'n av
 Hanan & Koenigsberger, 2804 3d av
 Harde & Short, 5 W 29th
 *Hardenbergh, Henry J., 1 W 34th
 Harder, Julius, 31 W 31st
 Hardy, Geo. F., 309 B'way
 *Harney & Purdy, 320 5th av
 Harris, Henry G., 3 E 17th
 Harrison, Joseph Duke, 20 Broad
 Hart, Donald P., 3 W 29th
 Hartwell, Horace E., 110 W 34th
 Hasenstein, Henry A., 192 Bowery
 Hasselman, Francis G., 566 5th av
 Haug, Geo., 30 E 20th
 Hauser, John, 358 W 125th
 Hauske, Frank, 81 E 125th
 Hawley, Haughson, 1 Union sq, W
 Haydel, Abner J., 156 5th av
 Hays, Jesse A., 1135 B'way
 Hazlett, Wm. C., 1133 B'way
 Healy, Henry J., 320 5th av
 Hebert, Maurice, 20 W 34th
 Hedman & Schoen, 302 B'way
 Heidilberg, Max G., 320 5th av
 *Heins & La Farge, 30 E 21st
 *Hemstreet, Wm. F., 156 5th av
 Hering, Oswald C., 111 5th av
 Herts & Tallant, 113 E 19th
 Hewitt, Edw. Shepard, 281 5th av
 Higginson, Wm., 17 Park row
 Hill, Fred'k E., 1 B'way
 Hill, George, 12 W 40th
 Hill & Stout, 1123 B'way
 Hines, Frank H., 104 W 124th
 Hinkle, Edw. F., 345 5th av
 Hirsh, Fred'k R., 11 E 24th
 Hiss & Weekes, 111 5th av
 Hoadley, Chas. W., 1133 B'way
 Hoar, Chas. N., 106 E 23d
 Hobart, Lewis P., 1170 B'way
 Hoddick, August O., 29 W 34th
 Hoffman, Geo. E., 236th st & White Plains rd
 Holden, Lansing C., 1133 B'way
 Hollwedel, Henry C., 23 Union sq, W
 Holt & Weidinger, 3 E 28th
 Hopkins, Alfred, 11 E 24th
 Hoppin, Koen & Huntington, 244 5th av
 Horenburger, Herman, 122 Bowery
 Horenburger, Herman, 682 E 159th
 Horgan & Slattery, 1 Madison av
 Horn, Chas. E., 1440 B'way
 Hornum, Louis A. & Co., 145 E 42d
 Hornum, W. H. C., 360 W 125th
 Horstall, W. H. A., 20 E 42d
 Horwitz, B., 41 W 24th
 Howard, H. W., Jr., 45 E 42d
 Howe, Augustus, 120 Liberty
 Howell, Harry T., 534 Willis av
 Howells & Stokes, 100 William
 Hull, Washington, 16 E 23d
 Hume, Wm. H. & Son, 3 Union sq, W
 Hunt & Bosworth, 527 5th av
 *Hunt & Hunt, 28 E 21st
 Hunter, Paul C., 398 E 184th
 Hunter, Wesley D., 46 Wall
 Hunting, Walter C., 1 W 34th
 Huntington, C. P., 18 W 31st
 Huntington, Chester, 32 Park pl
 Huss, Geo. Martin, 30 E 20th
 Hutchinson, Robert C., 126 Liberty

Hutton, L. Percival, 1170 B'way
 *Ingle, John W., 109 W 42d
 Isham, Arlington D., 132 Nassau
 Israels & Harder, 31 W 31st
 Ives, H. Davis, 160 5th av
 Jackson, Arthur C., 55 W 33d
 Jackson, Jos. A., 1123 B'way
 Jackson & Brown, 500 5th av
 Jackson & Rosencrans, 31 Union sq, W
 Jacobs, Harry A., 320 5th av
 Jacobsen, Fred, 1204 B'way
 Jacobson, John C., 1 W 34th
 Jallade, Atalier, 145 E 23d
 Jallade, Louis E., 1170 B'way
 Janes & Leo, 124 W 45th
 Jardine, Kent & Jardine, 1262 B'way
 *Jarmulowsky, Meyer, 165 E B'way
 *Jennings, Arthur B., 41 Park Row
 Johnson, Carl P., 8 E 42d
 Johnson, Wm. D., Westch'er av & So. boul
 Jones, Chas. G., 280 B'way
 Jones, Richard C., 280 B'way
 Jones, Wm. D., 245 B'way
 Josselyn, Edgar A., 45 E 42d
 Judell, Walter W., 160 5th av
 *Kafka & Lindenmyer, 34 W 26th
 Kaiser, Fred'k, 2d c Wash'n av, Westchester
 Karr, C. Powell, 70 5th av
 *Kastner, Julius & Son, 1133 B'way
 Kaufman, Arthur, 1133 B'way
 Kaufmann, Kilian & White, 110 E 23d
 Kaufman, Lewis R., 156 5th av
 Keene, Chas., 334 5th av
 *Keister, Geo., 11 W 29th
 Kent, Chas. N., Jr., 27 E 22d
 Kerby, John E., 481 5th av
 *Knight, A. B., 1947 B'way
 *Kimball, Francis H., 71 B'way
 Kirby, Jos. M., 2121 5th av
 Kirby, Petit & Green, 35 W 31st
 Kirk, Chester H., 20 Broad
 Kissam, Henry Snyder, 156 5th av
 *Knapp, Horace G., 1966 B'way
 *Knoche, Gottfried, 516 E 72d
 Knowles, Harry P., 1 Madison av
 Knowles, Wilbur S., 1 W 34th
 Knowles, Wm. W., 1133 B'way
 Knubel, John H., 318 W 42d
 Koehler, V. Hugo, 489 5th av
 Koeble, Henry A., 71 Nassau
 Kohn, Robert D., 170 5th av
 Korn, Louis, 353 5th av
 *Kramer, Geo. W., 1 Madison av
 Krauss, Otto C., Unionport
 Kuhne, Paul, 147 4th av
 Kurtzer, William, 194 Bowery
 Lamb, Chas. R., 23 6th av
 Lamb, Thos. W., 224 5th av
 Lambert & Eagles, 99 Nassau
 Lamson, H. G., 150 Nassau
 Langer, Nathan, 81 E 125th
 Lauritzen, Wm. C., 1133 B'way
 Lavelle, Wm. T., 2304 Southern boul
 Lawlor & Haase, 69 Wall
 Lawrence, J. Melville, E 239th, Wakefield
 Lawrence, Warrington G., 3 W 29th
 Lawton, G. Marshall, 150 Nassau
 Lawyer, A. B., 1133 B'way
 *Le Brun, N. & Sons, Met. Life bldg
 Leeming, Woodruff, 20 Broad
 Leicht, Adolph F., 9 E 42d
 Leining, Lewis, Jr., 355 E 19th
 Leitner & Kreyborg, 1044 Westchester av
 Leo, John P., 770 St. Nicholas av
 Leonard, G. Francis, 150 Nassau
 *Levitani, Beni. W., 20 W 31st
 Lieberman & Weltzer, 1133 B'way
 Lindsey, F. J. & Son, 48 W 27th
 Little & O'Connor, 5 W 31st
 Lohse, Christian F., 627 Eagle av
 Longyear, Arthur C., 126 Liberty
 *Lord & Hewlett, 345 5th av
 Lowell, Guy, 225 5th av
 Lowinson, Oscar, 18 E 42d
 Lucas, Herbert, 5 E 42d
 Ludlow & Valentine, 1 E 27th
 Lyall, Earl H., 334 5th av
 Lynch, Elliott, 1 W 34th
 Lyons, Robt. T., 31 Union sq, W
 *McCabe, Geo. M., 96 5th av
 *McCafferty & Buckley, 624 Madison av
 McDonough, Patrick H., 69 St. Lawrence
 av Van Nest
 McElpatrick, John B., 1402 B'way
 McElpatrick, W. H., 1402 B'way
 McElroy, Geo. L., 1123 B'way
 McGrath, Dudley, 1 Madison av
 *McGuire, Jos. H., 45 E 42d
 McGuire, Milton H., 1123 B'way
 McKenzle, Andrew C., 1123 B'way
 McKim, Alex. R., 1193 B'way
 *McKim, Mead & White, 160 5th av
 McLellan, Hugh, 1123 B'way
 Mac Gregor, A. S., 335 B'way

MacKenzie, Clinton, 82 Beaver
 Macintosh, Alexander, 55 Bible House
 Magouglie, H. Van Buren, 7 W 38th
 Mainzer H. R., 170 5th av
 Malcolm, Dan'l G., 569 5th av
 Mann & MacNeille, 2 E 33d
 Manning, A. J., 489 5th av
 Mapes, Wm. T., White Plains rd nr 242d,
 Wakefield
 Marcus, Bertram N., 35 W 21st
 Marsh, David, 19 B'way
 Marsh & Gette, 97 Nassau
 *Marshall, Henry Rutgers, 3 W 29th
 Marshall, John W., Bible House
 Marvin & Davis, 1135 B'way
 Masqueray, Emmanuel L., 156 5th av
 Massarene, Wm. G., 1133 B'way
 Mathesius, Fred'k, 12 W 40th
 *Mathews, Chas. T., 281 4th av
 Matthews, James D., 39 E 42d
 Mauer, L. C., 22 E 21st
 Maynicke & Franke, 298 5th av
 Meehan, Jas. F., Prospect av & Westchester
 *Mellen, Nathan C., 1 Madison av
 Merrick, Henry P., 1133 B'way
 Merritt, Mortimer C., 58 W 31st
 Mersereau, Wm. H., 32 B'way
 Mertin, Adolph, 33 Union sq, W
 Metcalf, Fred. A., 108 Fulton
 Metcalfe, Louis R., 27 E 22d
 Metcalfe, Mortimer D., 1170 B'way
 Meyers, Charles B. (also Sanitary Engi-
 neer), 3 Union sq
 Miller, Chas. E., 111 Nassau
 Miller, Geo. S., Main st, C. I.
 Minuth, Fred'k A., 425 5th av
 Moller, Smith & Warren, 1 Madison av
 Moloney, H. J., 1976 Webster av
 Money, Chas., Poplar st, Westchester
 Montgomery, H. P. Alan, 1170 B'way
 Mooney, John B., 1511 3d av
 Moore, Frank A., 569 5th av
 Moore & Laudsiedel, 2810 3d av
 Morris, Benj. Wistar, Jr., 345 5th av
 Morris, Chas., 36 E 23d
 Morris, Montrose W., 82 Wall
 Morrison, Robert B., 82 Wall
 Morse, Henry G., 11 E 24th
 Moses, Lionel, 156 5th av
 Mosley, Richard K., 1 Nassau
 *Mott, Chas. T., 35 W 31st
 Mowbray, Wm. E., 1300 B'way
 Mowbray & Uffinger, 92 Liberty
 Muller, Max, 115 Nassau
 Mulliken & Moeller, 7 W 38th
 Murchison, K. M., Jr., 320 5th av
 Murphy, Jno. M., 289 4th av
 Nash, Arthur C., 27 E 22d
 Nash, Thos., 1170 B'way
 Necarsulmer, Edward, 33 Union sq, W
 Nelson & Vanwagenen, 42 W 39th
 Neville & Bagge, 217 W 125th
 Newman, Thos. L., 41 Liberty
 Newman & Harris, 1123 B'way
 Newton, Thos. N., 3 W 29th
 Nichols, Geo., 82 Wall
 Nitchie, John E., 150 Nassau
 Nordheim, Henry, 1993 Boston rd
 Norris, Albert F., 150 Nassau
 Norton, Frank L., 111 B'way
 Oberlein, Louis, 19 Whitehall
 O'Connor, Jas. W., 1123 B'way
 Ogden, S. B. & Co., 954 Lexington av
 Olcott, Horatio W., 28 E 21st
 Oliver, Marshal F., 35 W 31st
 O'Meara, Jno. S., 100 E 83d
 Orchard, Wm. H., 114 E 28th
 Ott, Paul, 116 Broad
 Otto, Carl L., 1123 B'way
 Paddock, A. Nettleton, 20 W 42d
 Palmer, Henry, 26 W 22d
 Palmer & Hornbostel, 63 William
 Parsh & Schroeder, 5 W 31st
 Parsons, Floyd Y., 1133 B'way
 Parsons, Robert E., 3 Union sq, W
 Payne, Wm. Arthur, 345 5th av
 Pelham, Geo. F., 503 5th av
 Pell & Corbett, 31 Union sq
 Pelton, Henry C., 1133 B'way
 Perkins, Frank E., 1133 B'way
 Pfuger & Tomaselli, 32 Union sq, E
 Phelps, Stowe, 20 W 43d
 Pickering & Walker, 5 E 42d
 Pierson, Walter B., 72 Trinity pl
 Piguero, Wm. G., 32 Union sq
 Pike, Gordon B., 36 E 23d
 Pilcher & Tachau, 109 Lexington av
 Pittman, Henry C., 114 E 28th
 Pittman & Braun, 114 E 28th
 Platt, Chas. A., 11 E 24th
 Pollard & Steinam, 234 5th av
 Poole, Thos. H. Co., 13 W 30th
 Pope, J. Russell, 1133 B'way
 *Porter, Albert V., 621 B'way

*Post, Geo. B. & Sons, 345 5th av
 Potter, R. Burnside, 160 5th av
 Potter, Wilson, 3 Union sq, W
 *Price, Bruce & Desibour (J. H. De St-
 bour), 1133 B'way
 Pringle & Buckhout, 615 Tremont av
 Provot, George, 104 W 42d
 Purdy, Wm. S., 320 5th av
 Putzel, Joseph, 41 Union sq, W
 *Quinby, Frank H., 99 Nassau
 Radcliffe & Kelley, 3 W 25th
 Rafalsky, Mark, 170 B'way
 Raymond, Wm. Oakley, 17 B'way
 Reed & Stem, 7 E 42d
 Rees & Rossbach, 1947 B'way
 Regelman, Henry, 133 7th
 Reld, Chas. E., 105 E 14th
 Relley & Steinback, 481 5th av
 Reissmann, O., 30 1st st
 Renner, Morgan M., 11 B'way
 Renwick, Wm. W., 39 W 27th
 *Renwick, Aspinwall & Tucker, 320 5th av
 Rich, Chas. A., 320 5th av
 Richter, Chas. H., Jr., 68 Broad
 Ritterbusch, Conrad, 156 5th av
 Robert, Albert W., 114 E 28th
 *Robertson & Potter, 160 5th av
 Robins & Oakman, 27 E 22d
 Robinson, Fred'k S., 39 Hancock pl
 Robinson, Gilbert, 39 Hancock pl
 Robinson, Jno. Beverly, 500 Park av
 Robinson & Knust, 164 5th av
 Rogers, Robt. E., 150 Nassau
 Rogers, Wm. J., 1123 B'way
 Rohl, Richard, 128 Bible House
 Romeyn, Chas. W., 55 B'way
 Rooke, Frank A., 489 5th av
 Roos & Booraem, 55 Cedar
 Rose, Charles Fred'k, 1 Madison av
 Rosenberg, Ignatz P., 99 7th
 Ross, Albert R., 542 5th av
 *Ross & McNeil, 39 E 42d
 Rossbach, Erwin W., 1947 B'way
 Rossiter, Ehrick, 15 W 67th
 Rossiter & Wright, 110 E 23d
 Roth, Emory, 18 E 42d
 Rouse & Sloane, 11 E 43d
 Sargent, Edw. A., 1 B'way
 Sass, Samuel, 23 Park row
 Satterlee, E. Lansing, 1123 B'way
 Satterthwaite, Pennington, 27 E 22d
 Saussez, Lucien, 308 W 129th
 Sawyer, Philip, 156 5th av
 Scharsmith, Jno. E., 1 Madison av
 Schellenger, Gilbert A., 27 E 21st
 *Schickel & Ditmars, 111 5th av
 Schlesinger, Fred'k S., 1623 Madison av
 Schmitt, Anthony F. A., 604 Courtlandt av
 Schnauffer, Wm., 613 E 149th
 Schoeller, Adolph, 31 Union sq, W.
 Schumann, Chas. H., 280 B'way
 Schwanewede, Wm. F., 32 B'way
 Schwartz & Gross, 35 W 21st
 Schwarz, Gustav, 554 E 158th
 Schweitzer & Diemer, 45 Leonard
 Scott, Walter, 31 Union sq, W
 Seaman, Preston B., 114 E 28th
 See, Chas. E., 1133 B'way
 Serracino, Nicholas, 1133 B'way
 Shape, Robert L., 5 E 42d
 Shepard, Augustus D., Jr., 36 E 23d
 Shepard, B. Halsted, 1 Madison av
 Shire, Edw. I., 110 E 23d
 Short, R. Thomas, 3 W 29th

**When writing to firms
 whose names appear
 in this book please
 mention**

**HENDRICKS'
 COMMERCIAL
 REGISTER.**

Simonson, B. Eustace, 234 5th av
Slevin, Jas. F., 12 Chambers
*Slocum, S. Gifford, 1170 B'way
Small, Franklin M., 265 B'way
Smith, Bowen B., 104 W 42d
Smith, Chas. H., 81 New
Smith, C. Wellesley, 27 E 22d
Smith, Fred'k G. C., 20 E 42d
Smith, Henry A., 1181 B'way
Smith, Howard P., 281 4th av
Smith, Lyndon P., 32 Union sq, E
Smith, Oscar B., Jr., 1 E 27th
Smith, Peter, 69 Wall
Smith, Wm. Neil, 20 W 33d
Smith, Wm. W., 82 Wall
Smith, Wm. Wheeler 7 Wall
Smyth, David W., 41 Liberty
Smyth, Douglas, 2 W 129th
Snedden, Arthur Durant, 1 Nassau
Snelling & Potter, 37 E 30th
*Snook, John B. & Sons, 73 Nassau
*Snyder, Chas. B. J., architect to Board of
Education, 500 Park av

Sommerfeld & Steckler, 19 Union sq
Spannhake, Otto L., 233 E 78th
Sparr Bros., 87 Nassau
Sperry, Chas. H., 373 5th av
Spelman, John R., 125 E 23d
Spitzer, Geo. W., 500 5th av
Squires & Wynkoop, 44 Cortlandt
Steckler, Benjamin, 19 Union sq
Stegmayer, Charles, 168 E 91st
Steinam, Jos. L., 234 5th av
Steinle, Chas. A., 29 E 19th
Steinmetz, C., 25 Pine
Steinmetz, Henry G., 1343 Tremont av
Stephenson, Robt. S., 1 E 27th
Stern, Benj. E., 160 5th av
Stern, Eugene J., 833 E 166th
Stern & Morris, 1133 B'way
Stern, Fred'k J., 164 5th av
Stever, Arthur J., 55 B'way
Stewart, Francis G., 76 William
Stillman, Michael, 134 E 25th
Stirratt, Geo., 68 Bible House
Stoddart, W. L., 31 Union sq, W.
Stone, David, Bible House
Stoue, Fred'k S., 55 B'way
Storm, Edwin R., 160 5th av
Stoughton, C. W. & A. A., 96 5th av
Strack, Otto, 121 E 23d
Straub, Chas. M., 122 Bowery
Straub, Frank, 10 E 14th
Streeton, Geo. H., 289 4th av
Strom, Wm., 39 Cortlandt
Strong, Carlton, 27 E 22d
Strout, Wm. A., 81 Fulton
Sturgis, Danforth, N. B., 18 W 34th
Summerville, F. M., 1 Madison av
Sutton, Chas. M., 70 5th av
Swasey, Wm. A., 40 W 33d
Symonds, Wm. H., 23 W 24th
Taft, Jos. H., 1 E 40th
Taylor, Alfred H., 6 E 42d
Taylor, Clarence B., 1123 B'way
Taylor & Levi, 24 E 23d
Taylor & Mosley, 1 Nassau
Teale, Oscar S., 35 B'way
Thain & Thain, 4 E 42d
Thinnes, J., Jr., 425 5th av
Thom & Wilson, 1123 B'way
Thomas, Fred'k C., 33 E 17th
Thompson, G. Kramer, 66 B'way
Thompson, John A., 96 5th av
Thomson, Theo. E., 765 Tremont av
Thorp, J. Greenleaf, 3 W 29th
Thouvard, Louis, 289 4th av
Tillack, J. L. Theodore, 115 Nassau
*Tilton, Edw. L., 32 B'way
Toelberg, Niels, 1440 Boston rd
Tompkins, John Almy, 20 W 43d
Towner, Wm. T., 1133 B'way
Townsend, Steinle & Haskell, 29 E 19th
Trowbridge & Ackerman, 114 E 28th
*Trowbridge & Livingston, 424 5th av
True, Clarence, 130 Fulton
*Tryon, Thos., 41 Union sq
Tubby, Josiah T., Jr., 81 Fulton
*Tubby, Wm. B., 81 Fulton
Turner & Kilian, 110 E 23d
*Tuthill, Wm. Burnett, 287 4th av
Tuttle, Harry W., 150 5th av
Ufer, Edw. W. E., 42 E 23d
Upjohn, Robert B., 96 5th av
Van Anken, Geo. H., 30 E 14th
Van Benthuyzen, Boyd, 1170 B'way
Van Cleef, Henry C., 220 B'way
Vanderbent, Tunis J., 160 5th av
*Van Pelt, Jno. V., 501 5th av
Van Suetendael, Arthur J., 1133 B'way
Van Vleck & Goldsmith, 111 5th av
Vaux & Emery, 68 Bible House
Vickers, Nathaniel W., 452 5th av
Visscher, Theo. C., 425 5th av

Voelker, John P., 979 3d av
Volz, Chas., 160 5th av
Von Wiedefeld, Hugo P., 120 E 23d
Waid, D. Everett, (aud Consulting Archi
tect), 156 5th av

Wainwright, Richard T., 40 Wall.
Walgrave, Geo. M., 42 E 23d
Walker, Hobart A., 437 5th av
Walker, Walter L., 20 W 43d
Walker & Gillette, 131 W 40th
Walker & Hazzard, 437 5th av
Walker & Morris, 36 E 23d
Wallace, Jos. H. & Co., 5 Beekman
Wallis, Frank E., 1123 B'way
Walther, John P. & Bartholomew, 145 E
125th
Ward, Frank F., 203 B'way
Ward, W. Ward, 18 W 31st
*Ware, Jas. E. & Son, 1170 B'way
Warren, Chas. P., 20 W 34th
Warren & Wetmore, 3 E 33d
Warrington, Leslie G., 35 W 21st
Watson, John C., 217 W 125th
Webster, Daniel T., 160 5th av
*Welher, Lorenz F. J., 103 E 125th
Welch, Alex. McM., 11 E 42d
Welch, Winthrop A., 3 W 29th
Wells, Edmund B., 5 W 31st
Wells, J. Hollis, 32 Liberty
Wengenroth, Fred'k W., 29 B'way
Wentworth, Fred'k Wesley, 100 B'way
Werner, Rudolph, 4197 3d av
Werner & Windolph, 27 W 33d
Westervelt & Austin, 7 Wall
Wheeler, Dunham, 115 E 23d
White, Benj. V., 110 E 23d
Whitfield & King, 160 5th av
Whiting, Frank P., 35 Wall
Wilbur, Edwin, 120 Liberty
Wilder & White, 5 E 42d
Wilkinson, Henry W., 114 E 28th
Williams, E. R., 150 Nassau
Williams, John T., Jr., 27 William
Winkelman, Chas. F., 1133 B'way
Winterburn, Fred'k W., 32 Liberty
*Wolf, Joseph, 320 5th av
Wolfgang, Franz, 787 Tremont av
Wood, Arthur W. B., 1 Madison av
Wood, Donn & Deming, 31 Union Sq, W
Wood, Geo. E., 63 William
Wood, John A., 120 Liberty
*Wright, Frank M., 489 5th av
Wulff, Chas. A., 569 5th av
Wyeth & Cresson, 27 E 22d
York & Sawyer, 156 5th av
Young, Edw. Lee, 127 E 23d
Zipkes, Maximilian, 147 4th av
Zlot, Harry, 230 Grand
Zobel, Fred'k C., 114 E 28th

Borough of Queens.

BAY SIDE—Sinclair, John A., 2d st
Van Riper, A. M., P. O. Box 47
CORONA—Card, I. P., Grand av
Lobejager, Chas. M., 38 Main
Magnoni, Angelo, 17 E Jackson av
Schoeller, Andrew, 80 Montgomery
DUNTON—Grimes, B. F., Chichester av
ELMHURST—Card, Isaac P., Union av
Hendry, Chas., Trains Meadow rd n 4th
EVERGREEN—Berger, C., 687 Cornelia
Hetzelt, Louis, 538 Ralph
Spicer, Chas. B., Palmetto
FAR ROCKAWAY—Bogart, Albert J.
Delhi & Howard, 260 Central av
Lehman & O'Kane, Mott av & Grove
Smith, Morrell, Central av n Cornaga
FLUSHING—Appleton, Geo., 240 Amity
Berger, R. T., 69 B'way
Collins, Frank A., 69 B'way
Duflocq, Milton F., 69 B'way
Hahn, Edward, 69 B'way
Herzog, Frank, 69 B'way
Kouhn, Jno. J., 215 Franklin pl
Kraemer, Wm. H., 71 B'way
Parsons, Robert E., 40 Bowne av
Richardson, Albert E., 45 Percy
Robertson, Isaac P., 69 B'way
Stoll, Julius, 69 B'way
Ward, Fred'k K., 69 B'way
Wick, Geo. W., 69 B'way
HOLLIS—Shaw, Jos., 351 Fulton
JAMAICA—Danmar, Wm., 5 McAuley pl
Dorlon, S. J., 58 Douglass
Finn, Wm. A., 8 Herriman av
Halliday, W. L., 326 Fulton
Hausman, N. W., 336 Fulton
Shaw, Joseph, 357 Fulton
Spaulding, W. H., 21 De Lap
Tuthill & Higgins, 359 Fulton
LONG ISLAND CITY—Baker, John M., 85
Chmelik, Frank, 1028 4th av Borden av
Hahn, Edward, 48 Wardell

Kaubisch, Jno., 421 Webster av
Rogers, James, 184 Vanalst av
Saurmilch, Emil G., 506 B'way
Scherer, Gustav S., 466 3d av
Seamau, Preston B., 104 Main
Wilkinson, Geo. T., 1027 Boul
MASPETH—Kissler, Andrew, 18 High
Rose, Edw., Summit pl & Fulton
OCEANUS—Baylis, I. B., 27 Kane av
Kennedy, W. T. & Co., 462 Boul
Smith, Wm. R., Dodge av c Surf av
RICHMOND HILL—Andrews, Wm. R. H., 3405
Jamaica av
Drake, Chas. M., 3112 Chichester av
Haugaard, Henry E., Jamaica av & Maple
Janovitz, Peter T., 2121 Jamaica av
Jeffrey, Hy. T., 140 Lefferts
Moore, Thos. J., 468 Elm
Murphy, John M., Spruce n Beaufort
Snowdon, Chas. B., 2609 Jamaica av
Vanderbeck, C. W., 2605 Jamaica av
WHITESTONE—Parner, Rob't, 13th n 8th av
Rogstad, Oliff, 7th av
WOODHAVEN—Jaeger, Louis, 170 Shaw av
Lepage, Matthew, University pl

Borough of Richmond.

NEW BRIGHTON—Winans, Jno., Bement av
PORT RICHMOND—Perkins, Thos. C., 66 Rich
Whitford, Jas., Nat. Bank bldg ter
STAPLETON—Otto, Henry G., 3 Laurel av
TOMPKINSVILLE—Loeffler, Otto, 68 Bay
(END OF NEW YORK CITY)
NIAGARA FALLS—Joralemon, E. E., 225 2d
Larke, Simon, 608 Elmwood av
Phelps, C. H., Gluck bldg
White, Jas. R., Gluck bldg
Wright Geo. W. & Co., Arcade
NORTHPORT—De Vean, John D.
NORWICH—Cook, W. H.
NYACK—De Baum, Cornelius
Emery, Marshall L. & Henry G.
Simousou, J. B.
Smith, W. H.
OCEANUS—(See New York City, Borough of
Queens)
OGDENSBURG—Williams & Johnson
ONEIDA—Tillotson, W. Irving
ONEONTA—Beud, L. H.
OSWEGO—Seeber, John
PALMYRA—*Blaby, Joseph, Jarvis blk
PEEKSKILL—Barker, Asbury
Travls, Cyrus H.
PHELPS—McKinn, J., Corliss
PLATTSBURG—Signor, R. S.
PORT CHESTER—Minnerly, Harry S.
Ponty, D. H., Jr.
Seybel, D. E.
Seyfert, H. Paul
Volz, Charles
PORT HENRY—Curtis, John B.
PORT JEFFERSON—Smith, W. I.
PORT RICHMOND—(See New York City, Bor-
ough of Richmond)
POUGHKEEPSIE—Beardsley, Wm. J., 42 Mar-
ket
Carpenter, Du Bois, 45 Market
Lloyd, Percival M., 39 Market
RHINEBECK—Dicker, R. A.
RICHMOND HILL—(See New York City, Bor-
ough of Queens)
RIVERHEAD—Blume, Edwin H.
Skidmore, Geo. H.
ROCHESTER—*Block, Otto, Wilder bldg
Bragdon, Claude F., Cutler bldg
Brockett, F. A., Cutler bldg
Brockett, W. J., Powers bldg
Byers, Matthew T., 16 State
Byers, Robert S., 158 E Main
Corbett, Lawrence, 129 Weld
Crandall & Strobel, E. & B. bldg
Cutler, J. G. & J. W., Cutler bldg
Fay & Dryer, 62 East av
*Foote & Headley, Cutler bldg
Gordon & Madden, 300 Sibley blk
Hutchinson, Geo. F., Triangle bldg
Hattou, Horace T., Cutler bldg
Larzelere, H. L., German Ins. bldg
Lempert, Leon H. & Son, 31 Pearl
Oberlies, Jos H., Granite bldg
Otis, George T., Cutler bldg
Pierce, Herbert W., 185 S Fitzhugh
Platt, J. Mills, 921 Cham. of Com. bldg
Richardson, W. H., 167 Troup
Salter, James A., 341 Granite bldg
Stern, Leon, Cham. of Com. bldg
Tyler, Jas. R., E. & B. bldg
Walker, Wm. C., E. & B. bldg
Warner, A. J., Powers bldg
*Warner, J. Foster, 1036 Granite bldg
Wengender, John, 22 Kelly

ROME—Kirkland, F. W.
Schillner, G. C.
RYE—Wainwright, Richard T.
SAG HARBOR—Bessenden, W. A.
Thomas, J. H.
SANDY HILL—Cunningham, Jno. J.
McCarthy, James
SARANAC LAKE—Coulter & Westhoff
Scopes & Feustmann
SARATOGA SPRINGS—Breeze & Mallory
Vaughan, F. G.
SAYVILLE—Green, Isaac H., Jr.
SCARBORO—Arnold, Clinton S.
SCHENECTADY—Davis, Edward L., Clinton st
Dutcher, Philip, 56 State
Finch, Oren, State & Jay
Hayne, L., 174 Lafayette
Heldrich, Chas. A., 440 State
Lindley, Arthur G. Co., Parker bldg
Mynderse, W. T. B., 277 State
Niver, Worthing, 16 Eagle
Van Reusselaer, O. G., 175 Jay
SPRING VALLEY—Eickhoff, O. S.
STAPLETON—(See New York City, Borough of Richmond)
SYRACUSE—Bates, John, 730 S Crouse av
Baxter, Geo. W., Jr., 18 Hartson
Brockway, A. L., Syracuse Sav. Bank bldg
Clark, Oliver V., 103 Norris av
Colton, Chas. E., Kirk bldg
Conway, Merritt C., 322 Bastable
Dillenbeck, Norman E., Everson bldg
Gaggin & Gaggin, University blk
Ganung, Howard D., care Senet-Solway Co.
Gillette, Thurber J., 811 Park
Hendricks, Jacob F., 835 Emerson av
Makepeace, M. D., Everson bldg
*Merrick & Randall, S. A. & K. bldg
Russell & King, Snow blk
Stedman, Wm. H., 116 7th, N
Taber, Wellington W., O. C. S. Bank bldg
Wilsey, Chas. D., 310 S Beach
Wright, Gordon A., O. C. S. Bk bldg
Young, Jno., 2706 Lodi
TOMPKINSVILLE—(See New York City, Borough of Richmond)
TOTTENVILLE—(See New York City, Borough of Richmond)
TROY—Cummings, M. F. & Son, State B'k bldg
Demers & Campaigne, Ilium bldg
Fielding, Harry P., 282 River
Hatch, Wm. N., Harmony Hall
Lee, Stanton P., 314 Cannon pl
Loth, Milliman & Selkirk, 253 B'way
Woollett, W. L. & J. W., the Rensselaer
UTICA—*Agne, Rushmer & Jennison, 31 Arcade
*Cooper, G. Edw., 219 Genesee
George, Richard A., 69 Genesee
*Gouge, Fred'k H., 70 Genesee
Hobbess, Jno. A., 191 Genesee
Hubbard, Melvin H., 82 Arcade
Kinne, Linn, 108 Genesee
WATERTOWN—Cornwell, Fay D., Otis bldg
Dewey, Chas. E., Bank bldg
Eaton & Brownell (Specialty Mills), Smith bldg
Griffin, J. W., Bank bldg
Kieff, D. D., 24 Flower bldg
Lansing, A. F., Burdick blk
WEST NEW BRIGHTON—(See New York City, Borough of Richmond)
WHITE PLAINS—Brown, Frank Horton
Hopkins, W. S.
Moore, Jno. C.
Phillips, Wm. S.
Purdy, T. Milton
WHITESTONE—(See New York City, Borough of Queens)
WOODHAVEN—(See New York City, Borough of Queens)
YONKERS—Bassett, Elliott T., 19 N B'way
Cowles, Geo. S., 8 Getty sq
de Meuron, F. A., 87 Main
Forsyth, Edw. A., 45 Warburton av
Grewy, Emil, 45 Warburton av
Phillips, Frank, 86 Main
Quick, Edwin A. & Son, 18 S B'way
Rayner, Geo. & Sons, 13 Warburton av
Snyder, Wm. F., Radford bldg
Tait, Wm. O., Rossmore av
Van Suetendael, Arthur J., 15 N B'way
Ward, C. Franklin, 21 Union pl

NORTH CAROLINA.

ASHEVILLE—Lord, Wm. Henry
Melton, Allen L.
Smith, R. Sharp
CHARLOTTE—Gordan, Franklin
Hook & Rogers
Hutter, Leonard L.
McMichael, J. M.
Wheeler, Runge & Dickey
CONCORD—Propst, A. A.

DURHAM—Linthicum, H. C.
GREENSBORO—Brewer, Wells L.
Hook & Rogers
McMillen, Chas.
Weston, F. A.
NEWBERN—Eubank, Geo. C.
Simpson, H. W.
OXFORD—Hicks, W. J.
Hundley Bros. & Co.
RALEIGH—Barrett & Thomson
Hartge, C. E.
Kellar, H. S. P.
SALISBURY—Ramsay, Jno. E.
STATESVILLE—Lester, C. H.
WILMINGTON—*Bonitz, H. E.
Leitner & Wilkins
McMillen & Cooper

NORTH DAKOTA.

ELLENDALE—§Brown, John A. & Martin
†Mallory, William
FARGO—Beebe, M. E.
Hancock Bros.
Haxby & Gillespie
O'Shea, A. J.
GRAFTON—Mott, J.
GRAND FORKS—De Remer, Jos. B.
Edwards, W. J.
Ross, J. W.
Smith, R. L.
WAHPETON—Schuler Bros.

OHIO.

AKRON—Bunts & Bliss, Hamilton bldg
*Gintber, Wm. P., Arcade bldg
*Henry, Chas., 117 E Market
Hapster, Milton E., Central Savings & Trust bldg
Mantz, N. A., 234 Spicer
ALLIANCE—Epperson, W. S.
ASHTABULA—Smith & Potter
Wilson, Jno. L.
BOWLING GREEN—Brown, Homer C.
CANAL DOVER—Romig, S. A.
CANTON—Bostwick, J. M., Hartner Bank bldg
Crossley & Waterhouse
Tilden, Guy, Schaefer blk
CHILLICOTHE—Cook, John F.
Schweitzer, John
CINCINNATI—Andrews, Frank M., 25 E 3d
Baldwin, Bert L. & Co., Perin bldg
Bast, Adam J., 2132 Baymiller
*Bausmith & Drainie, Johnston bldg
*Boll & Taylor, First National Bank bldg
Brown & Davis, Fosdick bldg
Burnham, D. H. & Co., First Nat. Bank bldg
Burton, Matthew H., 838 Hutchins av
†Crapsey & Lamm, Groton bldg
Coyle, Joe, 418 Vine
De Camp, Benj. C., Neave bldg
*Des Jardins, Shebley, 4th Nat. Bank bldg
*Dittoe & Wisenall, Blymyer bldg
Dornette, Edward H., Pickering bldg
*Drach, Gustave W., Union Trust bldg
*Elzner & Anderson, Ingalls bldg
Fasse, Chas. H., 797 McMillan
Fechheimer, A. Lincoln, Andrews bldg
Fisher, Martin, 2156 Central av
*Poster, C. M., Johnston bldg
Franklin, Wm. W., Glenn bldg
Garber & Woodward, Neave bldg
Gilmore, Jas., 4th Nat. Bank bldg
*Godley, S. S., 803 Neave bldg
*Hake, Harry, Andrews bldg
*Hannaford, S. & Sons, Hulbert blk
Hayward & Cordes, Union Trust bldg
James, Andrew R., 514 Main
Kau, Max, Jr., 2241 Guy
Kuckertz, Jacob H., 1713 Sycamore
Kunz, Anthony, Jr., 955 W Court
*McLaughlin, James W., Johnston bldg
Peacock, Samuel D., 10 E Commerce
Pfeiffer, Philip G., 10 E McMillan
Piket, Louis, 114 W Nixon
*Rapp, Zettel & Rapp, Johnston bldg
Reed, Edward H., 656 Wayne
Richter, Theo. A., Jr., 331 Milton
*Rieg & Marty, 2554 Vine
Ritter, Adam, C. N. O. & T. P. Ry
Robinson, W. Stanton, Groton bldg
Rueckert, Emil G., 38 E McMicken av
Rueckert, Jacob J., Allen bldg
Schlobtermeyer, Edw., Hopkins c Linn
Sheppard, Gordon, Thoms bldg
*Steinkamp, Jos. G. & Bro., Mercantile Lb-Striker, John P., 612 W 5th brary bldg
*Tietig & Lee, Commercial Tribune bldg
Tischler, Edw. R., Bracken rd, Westwood
*Weber, C. C. & E. A., St. Paul bldg
*Werner & Adkins, Mitchell bldg
Wood, J. M., Bradford blk

CLEVELAND—Badgley & Nicklas, 5607 Euclid
Baird, Fred'k, American Trust bldg
Blackall & Page, Lennox bldg
Bobm, G. B., Williamson blk
Bohnard, Wm. A., 1792 E 24th, N E
Briggs & Nelson, Rose bldg
Chapman & Chapman, Citizens bldg
Cole, Chas. E., Colonial Arcade
Cone, Harry A., Schofield bldg
Corlett Engineering Co., Cuyahoga bldg
Corning, Burt W., Schofield bldg
Courter, Wm. H., 942 Prospect av
Crabb, Robert, 7305 Cedar av, S E
Dethloff, John, Park bldg
Dutton, W. Stillman, Electric bldg
Dyer, J. Milton, Cuyahoga bldg
Edwards, Arthur C., American Trust bldg
*Eisenmann, John, The Arcade
Ellis, E., 101 Penrose av, E C
Elwood, Cosmo C., Republic bldg
Ferguson & Cameron, Schofield bldg
French, A. A., Rose bldg
Fugman, Godfrey, Chamber of Commerce
Garfield, Abram, Garfield bldg
Gleichman, Morris M., 241 Euclid av
Hall, Wilbur M., Schofield bldg
Hamilton, Henry R. P., Schofield bldg
*Hammoud, Geo. F., 734 Euclid av
Hannon, Arthur M., Rose bldg
Harks, Henry J., 1254 E 84th, N E
Hartzell & Pettit, 11810 Euclid av
Heiser, R. Arthur, 1441 E 9th, N E
Hodges & Bancroft, Rose bldg
Hodges, Wm. W., Rose bldg
*Hopkinson, Chas. W., Rose bldg
*Hubbell & Benes, Citizens' bldg
Hubby, R. G., Caxton bldg
Hubert, Ernest, 7018 Superior, S E
Hulet, Ralph M., Lennox bldg
Janowitz, Albert F., 746 Euclid av
Jansen, Wm. C., 942 Prospect av, S E
Kauffman, Arch'l Co., Caxton bldg
King, Geo. S., 746 Euclid av
Kingsley, Wm. M., Rockefeller bldg
Knox & Elliott, Rockefeller bldg
Laist, Theo. F., Lennox bldg
Lehman & Schmitt, Garfield bldg
Lorenz, Otto J., 5778 Portage av, S E
Matzinger, Paul, Lennox bldg
Meade, Frank B., Garfield bldg
Mitermiller, Andrew S., 14 Amesbury pl
Nacey & Hynd, Western Reserve bldg
Osborn Engineering Co., Osborn bldg
Oviatt, A. N., 589, The Arcade
Post, Geo. B. & Sons, Schofield bldg
Richardson & Watts, 942 Prospect, S. E.
Ritchie & Ruple, Chamber of Com. bldg
Roberts & Abbott Co. (Inc.) (Railway), Schofield bldg
Rose, L. C., Homestead av & B'way, S E
*Sabin, Wm. Warren, New England bldg
Sanford, Harry W., Citizens bldg
*Schweinfurth, Chas. F., New England bldg
Schofield Architects, Schofield bldg
Searles, Hirsch & Gavin, Schofield bldg
Shaffer, M. T., American Trust bldg
Shimmin, Harlen E., Rose bldg
Skeel, Albert E., Rose bldg
Skeel, Frank D., Caxton bldg
Smith, Edward E., Williamson bldg
*Smith, Geo. H., 241 Euclid av
Sprackling, A. E., Citizens Bank bldg
Stapf, Otto K., Rose bldg
Stedman, Chas. R., Superior bldg
Steffens, Geo. H., Williamson bldg
Striebinger, Frederic W., New England bldg
Stuhr, Herman F., Rose bldg
Swigert, Herbert, Central Trust bldg
Tenbusch, Gerhard A., Schofield bldg
Thomas, Lewis W., 942 Prospect, S. E.
Tousley, Chas. E., 942 Prospect, S. E.
Ulrich, Emil M., Schofield bldg
Uthe, Chas. H., Superior bldg
Van Develde, Bernard F., 3118 W 25th, S W
Walton, Curtis, Rose bldg
Warner, Franz C., Citizens bldg
Watterson & Schneider, New England bldg
White, Carl F., American Trust bldg
Wyman, Chas. L., Citizens bldg
COLUMBUS—Bellows, C. W., 29 Ruggery
Dauben, Joseph, Eberly bldg
Dawson, Richard Z., Jr., Outlook bldg
Elliott, Fred'k W., Board of Trade bldg
Gleichauf, Frank S., Spabr bldg
Goldsmith, Jacob S., Wyandotte bldg
Gribben, J. Upton, Columbus Sav. & Trust bldg
Hannaford & Sons, Deshler blk
Hart, E. W. & Co., Columbia blk
Jones, H. Chas., Deshler blk
Jones, J. A., Brunson bldg
Julian & Julian, 576 N High
*Linthwaite, H. A., 101 S High
Maetzel, Henry & Co., 284½ S High
Marriott & Allen, Ruggery bldg

Meek, James Edwin, 1st Nat. Bank bldg
Mills & Pruitt, 49 N High
*Packard, F. L., Hayden bldg
Patton & Miller, Columbus Trust bldg
*Richards, McCarthy & Bulford, Ruggery
Rickett, E. H., Columbia bldg
Riebel, David & Sons
Stribbling & Lum, 85 N High
CONNEAUT—Smith & Potter
DAYTON—*Andrews, F. M., Conover bldg
Connolly, W. F., 541 E Wyoming
*Dexter, Robert E., Canby bldg
Ditzel, Jno. F., 313 E Johnson
Gemin, Chas. E., 25 N Main
Heathman, F. B., Davies bldg
Herby, Charles, U. B. bldg
Jaekle, W. L., U. B. bldg
Kelley, O. M., Davies bldg
Kinninger, Jos. E., 25 N Main
Mounstephen, Edw. J., McIntyre bldg
Owens, Chas. S., Davies bldg
*Peters, Herman & Brown, Reibold bldg
Pretzinger, Albert, Reibold bldg
Schenck & Williams, 432 Arcade
Slover Bros., Canby bldg
Stacy, W. H., 38 S Perry
Stover, A. W., Canby bldg
Sutter, Frank L., Louis blk
*Williams, Chas. L., Callaban blk
DEFIANCE—Hale, J. J.
DELFPHOS—Herrick, I. S.
Trames, Henry
EAST LIVERPOOL—Calhoun, W. A.
Fritz, A.
Scott, A. W., Jr.
FINDLAY—Horn, Geo. J.
*Holowell, Linford
Krauer, W. Lewis
FOSTORIA—Smith, F. M.
FREMONT—Johnson, Miss Alice C.
Shively, S. H. & Son
GREENVILLE—Jackson & Son
HAMILTON—Barkman, Geo. W.
Mueller, Fred'k G.
HOME CITY—Drucker, Fred H.
IRONTON—Murray, T. S. & Son
JACKSON—Bugman, Fred E.
KENNEDY—Lindsay, J. R.
LANCASTER—Getz, W. F.
LIMA—Chapin, John A.
Dawson & McLaughlin
Leech & Leech
Matthews, B. F.
LOGAN—Magoon, M. A.
LORAIN—Ellis, C. C.
Ford, Hamilton E.
Gawn, J. D.
States, W. T.
Wurmser, H. O.
MANSFIELD—Hursh, F. B.
Jones, Harlan
*Redding, Vernon
MARLETTA—Decker, W. A.
Hovey, George T. & Son
MARION—Sloan, J. J.
MASSILLON—Baer, H. C., 22 N Mill
Bostick, J. M.
Heckman, Chas.
Linn, E. E.
Vermont, John B.
MIDDLETOWN—Otter, Frank J.
MILFORD—Elliott, Chas. N.
MILFORD—Elliott, Chas. N.
NEWARK—Arbaugh, R. B.
Carlsle, Fred H.
NEW LEXINGTON—Strosnider, Jess L.
NILES—Sonder, C. P.
NORWALK—*States, W. T.
NORWOOD—Adkins, John S.
PAINESVILLE—Thayer, Irwin W.
PIQUA—Thompson, C. A.
PORTSMOUTH—Alger, A. B. & Sons
RAVENNA—Green, James
SALEM—Cameron, Albert
Hutton, Finley
*Myers, Jacob
SANDUSKY—Shively, S. H. & Son
SPRINGFIELD—Cregar, Edward F., 69 N Factory
Dawley, Chas. E. & Bro., Bushnell bldg
Drach, Gustave, 27 S Limestone
Gotwald, Robert C., Gotwald bldg
Miller, Wm. F., 27½ S Limestone
Shilling, Wm. K., Bushnell bldg
STEBENVILLE—Christie & Webster
TIFFIN—Hewitt, F. K.
Nelcher, G. W.
TOLEDO—Aftel & Textor, Spitzer bldg
Annin, Wm. H., The Spitzer
Bacon & Huber, The Spitzer
Becker, Bernhard, Gardner bldg
Buer, J. L., 731 Balfe
Dowling, Wm. R., 2121 Forest av
Downey, J. A., The Nasby

*Fallis, E. O., The Nasby
Hall, H. F., 226 Batavia
Hudson, Walter C., The Nasby
Hunt, Wm. B., The Spitzer
Johnson, A. W., The Spitzer
Lane, Louis, The Nasby
Langdon & Hohly, Nicholas bldg
Liebold, Herman A., 515 Jefferson av
Matz, J. W., Hartford blk
Mills, G. S., Ohio bldg
Pulford & Gortou, 237 Michigan
*Stine, David L., The Valentine
Sturgis, A. Buruside, The Spitzer
Thurstin, W. G., The Nasby
Tschumy & Co., 108 Summit
Wachter, H. W., The Nasby
Wade, Thos. A., 230 Superior
Walker, Forst E., 211 Main
Welker, L. G., The Spitzer
WARREN—*Coe, Thos. R.
Relya, W. H.
*Sidelis, Byron T.
WILMINGTON—Shepherd & Son
Vance, John P.
WINTON PLACE—Dittoe, Louis G.
Werner, Geo. S.
Winans & Burnett
XENIA—Collins, A. C.
YOUNGSTOWN—Ellis, Wm. B., 28 E Federal
Judd, A. F., 29 N Hazel
*Kling & Zenk, 115 W Federal
Miller & Ford, Dollar Savings Bank
*Owsley & Boucherle, Wick Bank bldg
*Thompson, F. & E. R., 225 E Federal
Vaughn, George, 223 W Federal
ZANESVILLE—Meyer, Harry C.
Taylor, Judson P.

OKLAHOMA TERRITORY.

BLACKWELL—Struble, I. R.
EL RENO—Vogel, J. W.
ENID—Sexton, C. H.
Shaw, R. W.
GUTHRIE—Foucart, J.
HOBART—McCanse, Wm.
LAWTON—Chapler, Elijah C.
Grubb, Francis H.
McAlester—Place, Brickley & Walsh
Walsh, Jeffrey J.
OKLAHOMA CITY—Coady, E. & Co.
Hawk, J. W.
Hyde, Frank D.
Layton, S. A.
Lobdell, Chas. R.
Matthews & Bailey
Starr, John V.
Turbyfill & Mobr
Van Meter, J. W.
Wells, Wm. A.
Williams & Wells
SHAWNEE—Davis & Horne
Keith, W. M.
Peters & Nethercot

OREGON.

ALBANY—Burggraf, C. H.
ASHLAND—Clark, F. C.
BAKER CITY—Bennes, J. V.
White, M. P.
DALLAS—*Morrison, F. H.
EUGENE—Campbell, Wm. T.
Hensell, Y. D.
FOREST GROVE—Starrett, F. M.
HOOD RIVER—Hall, P. M.
Jerome, Lewis & A.
LA GRANDE—Thornton, C. R.
McMINNVILLE—Cooper, J. C.
Daniels, C. F.
NORTH BEND—Griffin, A. J.
OREGON CITY—White Bros.
PENDLETON—Howard, Theo. F.
Troutman, C. E.
PORTLAND—Allen, F. P., Jr., Chambers bldg
Anderson, F. M., 288 Wash'n
Browne, P. Chappel, Marquam bldg
Camp, H. L., 819 E Salmon
Dittrich, Henry C., 321 Williams av
Ewart, A. C., Falling bldg
Goodrich & Goodrich, Fenton bldg
Grahs, E. J., 284 Wheeler
Hefty, Henry J., Commercial bldg
Hendricks, E. W., Labbe bldg
Huffman, J. P., 181 1st
Jacobberger, Jos. McKay bldg
Jones, T. J., 334 E 3d
Kable, Chas. H., 272 Park
Kleemann, Otto, 30 Grand av N
Knighton, W. O., Commercial bldg
Kroner, Ernest, 264 Morrison
Krumbeln, Justus F., Hamilton bldg
*Lazarus, Edgar M., Worcester bldg

Lewis, David O., Couch bldg
Lewis & Lewis, 307 Madison
McClaren, E. E., 628 E Morrison
McKeen, David, 164 E 12th
Martin, Richard Jr., DeKum bldg
Menges, H. H., 113 2d
Morgan, W. L., Abington bldg
Neer, Delos D., 133½ 1st
Nicoll, Geo. D., Chambers bldg
Peterson, A. F., 407 Alder
Robbins, C. C., Ainsworth blk
Schacht, Emil, 318 Commercial bldg
Vore, G. H., 245½ Morrison
Whlddin & Lewis, Concord bldg
White, F. M., 1189 Taggart
White, Warren S., 344 Hall
Williams, D. L., Cham. of Com. bldg
Williams, Franklin, Worcester bldg
SALEM—Pugh & Carcy
THE DALLAS—Crandall, C. J.

PENNSYLVANIA.

ALLEGHENY—Clark, Wm. E. & Co., 422 Federal
Comstock, C. B., Herrs Island
Meals, Floyd J., 2910 Shady av
Mentel, C. G., 422 Federal
Ott, Geo. W., Omaha nr Vairview av
Vandevort, R. G., 422 Federal
ALLENTOWN—Jacoby & Weisbampel, Commonwealth bldg
Ruhe & Lange, 10 N 6th
ALTOONA—Goodyear, R. C.
BEAVER FALLS—Snyder, A. J.
BELLEFONTE—Cole, Robert
BETHLEHEM—Biggin, Frederic Child
BRADDOCK—Richards, S. Colfax & Co.
BRADFORD—Brickell, E. F.
BUTLER—Kline & Co.
Porter, Fred
CARBONDALE—Robinson, Jos. F.
CARLISLE—Brindle, A. N.
Wetzell, A. J.
CHAMBERSBURG—Kedgy, Franklin
Rboades, M. R.
COATESVILLE—Thorne, Eldwin H.
COLUMBIA—Paules, Granville E.
CRAFTON—Prack, Bernhard H.
EASTON—Michler, Wm. M.
Stewart, John M.
ERIE—*Cody, C. Paxton, Downing bldg
Frank, Jos., Scott blk
Lee, Jos., 2734 Peach
Meyers, A. F., Lincoln bldg
Yard, J. W. & Sou, 808 State
FRANKLIN—Fullerton, Clarence A.
Osborn, John
GLENDEN—North, Wm. F.
GREENSBURG—Mowbray, Fred'k W.
Sloan, W. G.
Truxell & Kline
HANOVER—Myers, I. M.
HARRISBURG—Bernheisel, Chas. H., 5 N 2d
*Grove, Geo. H., 213 Walnut
Hamilton, Thos. H., 11 N Market sq
Kast, M. I., 204 Market
Lloyd, C. Howard, 216 Market
Opperman, Karl T., 29 N 2d
Weaver, W. O. & Son, 14 S 2d
HAVERFORD—Baily, Wm. L.
Collier, Austin McD.
Evans, Allen
HAZLETON—Beck, C. O.
Sloyer, Aaron
HOMESTEAD—McClure, M. L.
Piatt, D. S.
Snyder, J. O.
Vernon, A.
JOHNSTOWN—*Krueger, Geo.
Myton, W. R.
Reiche, Frank P.
Wild & Rodgers
KITTANNING—Simpson, Jno. T.
LANCASTER—Erisman, W. P., N Queen
*Evans, Clifton, 28 S Lime
Rothenberger, D. M., 140 N Queen
Urban, C. Emlen, Woolworth bldg
LANSDALE—Bean, M. B.
Conover, Samuel S.
LANSDOWNE—Lewis, Edwin B.
LANSFORD—Edwards, John O.
LATROBE—Slack, P. S.
LEBANON—Euston, E. C.
Hauer, Harvey T.
*Richter, A. A.
LEWISTON—Montgomery, Harry B.
McKEESPORT—Lindmans, Henry J.
Lohman, H. J.
Wilson, W. F.
MEADVILLE—Richard, P. H.

NEW CASTLE—Eckles, W. G., Mill & Wash'n
Foult, S. W. & Son, Pearson bldg
Scholly, Andy, Dean blk
*Thayer, C. C. & A. L., E Wash'n
Wirsing, H. M., Jefferson st

NEW KENSINGTON—Brakeman, Harvey
Ellis, B. H.

NEWTOWN—Chamberlin, James B.

NORRISTOWN—Hendricks, C. R.

OIL CITY—Brenot, Joseph P.
Charles & Bailly

PHILADELPHIA—Adams, Alex. M., 1012 Walnut
Adams, Clyde S., 1233 Arch
Allen, John D. Co., Betz bldg
Allen, Wm. S., 14 S Broad
Artemus, Wm., 2033 Oxford
Autenrieth, Chas. M., 410 Walnut
Baily & Bassett, 421 Chestnut
Baker & Dallett, Crozer bldg
*Balderston, Chas., 411 Walnut
Ball, Chas. H., 5514 N 3d
Ballinger & Perrot, 102 S 12th
Barnes, Amos W., 134 S 9th
Barthmaier, Eugene, 3119 N Broad
Bassett, David B., 1229 Walnut
Beale, Dan'l S., 3102 N 16th
Bennett, Thos. F., 1022 Walnut
Berger, Carl P., Penn sq bldg
Bertoletti, Edw. F., West End Trust bldg
Betts, Morris C., Harrison bldg
Bissell, Elliston P., Bailey bldg
Biswanger, C. Theodore, 2212 N Franklin
Blithe, Wesley L., Rothschild bldg
Boggs, Edw. T., 136 S 4th
Bolton, Chas. W. & Son, Witherspoon bldg
*Boyd, D. Knickerbocker, Harrison bldg
Boyd, Lawrence V., Harrison bldg
Boyle, Roland W., 1626 Chestnut
Bretherick, Wm. W., 905 Walnut
Brockie & Hastings, 328 Chestnut
Brooke, Chas. J., 14 S Broad
Bunting & Shrigley, 603 Chestnut
Burnham, D. H. & Co., 1317 Market
Burns, Chas. M., 717 Walnut
Caldwell, Francis G., 1533 Chestnut
Catharine, Irwin T., 1514 Christian
*Chandler, Theophilus P., 328 Chestnut
Churchman & Thomas, 532 Walnut
Cope & Stewardson, 320 Walnut
Courtenay Construction Co., 1305 Arch
Cummiskey, Chas. J., Phila. Bank bldg
Curtis, Henry Loomis, Crozer bldg
Dagit, Hy. D., 435 Chestnut
Davis & Davis, 1600 Chestnut
Day, Frank Miles & Bro., 925 Chestnut
Deery, Jno. J., Betz bldg
De Moll, Carl, 731 Walnut
Dilks, Albert W., 1001 Chestnut
Dobbins, Geo. F., 8341 Gtn av
Dodge & Day, Drexel bldg
Douglass, Wm., 330 N 63d
Duhring, Okie & Ziegler, 1218 Chestnut
Dull, Jno. J., Witherspoon bldg
Duncan, W. S., 1330 Arch
Durang, Edwin F., 1200 Chestnut
Dnrang, Ferdinand F., 102 S 12th
Erskine, Richard, Bailey bldg
Evans, David, Land Title bldg
Evans & Bright, Crozer bldg
*Eyre, Wilson, 927 Chestnut
Fernald, Jas. C., 5533 Wyalusing
Fetterolf, Edwin H., Weightman bldg
*Field & Medary, 1414 S Penn sq
Fielding, Mantle, 110 S 4th
Fox, Fred'k, 4223 Pechin, Roxb.
Frankenfield, Jacob K., 3050 N Percy
Frotscher, Oscar, 441 Chestnut
Fnrber, Wm. C., 416 Walnut
Furness, Evans & Co., Provident bldg
Furstenau, Martin C., 308 Walnut
*Gardner, Clarence, Penn Mutual Life Ins. Co. bldg
Geisz, Jos. A., 3239 York rd
Gilmore, Chas. W., 4808 2d st pk
Grancell, W. Earl, 328 Chestnut
Hale, Willis G., Weightman bldg
Hannan, Chas. H., 5044 Lockwood
Harold, Jacob, 932 N 11th
Hartmann, Emil H., 514 Walnut
Hartman, Harry, 514 Walnut
Hayes, Frank A., 1703 Chestnut
*Hazelhurst, Edward, Girard bldg
Heacock & Hokanson, 1218 Chestnut
Hendrickson, Edw. E., Penn Mut. Life bldg
Herold, Otto, 2536 N 33d
Hewitt, G. W. & W. D., Bullitt bldg
*Hickman, Louis C., 328 Chestnut
*Hillman, Chas. L., Provident bldg
Hinderman, Carl, Builders Exchange
Holman, E. Elizabeth, 1020 Chestnut
Hopkins, P. A., Crozer bldg
Hnston, Joseph M., Witherspoon bldg
*Hutton, Addison, Stephen Girard bldg
Inman, Herbert, 1528 Vine
Jackson, J. Elvin, 719 Walnut

Jackson, Wm. E., 927 Chestnut
Jackson, Wm. E., 927 Chestnut
*Johnson, Lindley, Harrison bldg
Johnson, Orlando D., Land Title bldg
Johnson, Phillip H., Land Title bldg
Kelsey, Albert, 931 Chestnut
Keen, Chas. Barton, 1220 Chestnut
Keeney, Theodore M., 203 N 20th
Keisker, F. H., Perry bldg
Kennard, Frederic H., 251 S 4th
*King, Guy, 1513 Walnut
Klauder, Chas. Z., Penn Mutual Life Ins. Co. bldg

Koelle, Speth & Co., 608 Chestnut
Koenig, Franz C., 4912 Parkside av
Kuhn, Peter, 3058 N 8th
Lacey, Adin Benedict, 1012 Walnut
Lippincott, T. B., Land Title bldg
Loos, Richard C., 1017 Chestnut
Luce & Son, 215 S 11th
*Lovatt, George I., 418 Walnut
Lucas, Jno. & Co., 4th & Race
Lueders, Chas. W., 475 N 4th
McIlvain & Roberts, Land Title bldg
*Macomb, Hy. A., 717 Walnut
*Mason, Geo. C., Drexel bldg
Mellor & Megis, Crozer bldg
Miller & Yarnall, Crozer bldg
Miller, T. Frank, 1126 Walnut
Miller, Wm. S., 929 Chestnut
Milligan & Webber, 521 Walnut
Mohr, Paul, 410 Walnut
Mooney, Thos. J., 4138 Market
Morris, Geo. Spencer, Stephen Girard bldg
*Moses, Arnold H., 136 S 4th
Naschold, Jacob, 1118 Chestnut
Nattress, Geo. & Son, 1125 Walnut
Newman, Geo. A., Provident bldg
Newman & Harris, Land Title bldg
Nolan, Edmund B., 221 S De Kalb
Oelschlager, Chas. E., 1502 Market
Pacey, Robert, 1929 Rowan
Page, Geo. B., Harrison bldg
Paist, Phineas E., Bullitt bldg
Paxson, Edw. S., 729 Walnut
Pearson, George T., 427 Walnut
Peddle, Chas. R., Bullitt bldg
Perot, Robeson Lea, Bailey bldg
Peuckert, Kurt W., 310 Chestnut
Phillips, Watson K., 430 Walnut
Pierson, Albert B., 427 Walnut
Pitts, Robert A., 538 S 48th
*Plack, W. L., 1208 Chestnut
Potter, W. Woodburn, 137 S 5th
Price, Frank L., 731 Walnut
Price, Walter F., 731 Walnut
Price & McLanahan, 1624 Walnut
*Prichett, Wm. C., 420 Walnut
Pugh & Hnbard, Real Estate Trust Co.
Pursell, Isaac, 119 S 4th
Rahn, C. E., 410 Walnut
Rankin, Kellogg & Crane, 1012 Walnut
Rehfuss, Geo. U., Weightman bldg
Reinhold, Henry L., Jr., 1004 Chestnut
Richards, Thos. W., 4812 Fairmount av
Ring, Jonathan, 430 W Bringhurst, Gtn
Roberts, Spencer, Weightman bldg
Rommel, Frank A., 1524 Chestnut
Rnppman, Frank W., Bullitt bldg
Ryer, Edward C., 5424 Jefferson
Sanson, E. M., 110 S 4th
Sauer, Andrew J., 1112 Chestnut
Savage, Geo. E., Provident bldg
Savery, Scheetz & Savery, Stephen Girard bldg
Schaffer, Isaac N., 2231 N 19th
Schermerhorn, Clarence E., 430 Walnut
*Seeler, Edgar V., Real Estate Trust Co. bldg

Sellers, Horace W., Stephen Girard bldg
Sewico Co., Perry bldg
Shaw, Alexander G., Lippincott
Shirk, J. C. M., 421 Chestnut
Simon, Edw. P., 1229 Walnut
Sinkler, Jno. P. B., Bailey bldg
*Smedley, Walter, Stephen Girard bldg
Smith, W. Frisbey, 1345 Arch
Stearns & Castor, Stephen Girard bldg
Stevens, Benj. R., Bullitt bldg
Stuckert, F. Russell, 1421 Chestnut
Supplee, Davis D., 152 E Washington la. Gtn.
*Totten & Rogers, 1120 Chestnut
Trout, H. Clifton, 1533 Chestnut
Tront, Wetherell P., 328 Chestnut
Trumbauer, Horace, Land Title bldg
Trumbower, Werner, Crozer bldg
Van Kirk, Walter M., 1333 Pine
Vasquez, R. L., 2902 Rhawn, Hbg
Vaux, Wm. S., Bailey bldg
Watson, Frank C., 1727 N 28th
Wetherell, Herbert J., 328 Chestnut
Watson & Huckel, 1211 Walnut
Wells, C. M., 5614 Gtn. av
Westover, Albert E., 1116 Chestnut

Wetherell, Herbert J., 328 Chestnut
White, Ralph, Penna. bldg
Wilkinson, Clarence G., 1709 Arch
Williams, Clayton, 6221 Gtn. av
Willson, O. Henry, 1408 Arch
*Wilson, Harris & Richards, Drexel bldg
*Windrim, Jas. H., Commonwealth Trust bldg

Windrim, Jno. T., Commonwealth bldg
Wolf, Otto C., 1025 Arch
Wood, Wm. A., Bullitt bldg
Young, Harry P., 865 N 20th
Zantzing & Borie, 251 S 4th
Zimmerman, Henry, 4639 Penn, Fkd.

PHOENIXVILLE—Lowery, Irvin

PITTSBURG—Alden & Harlow, Farmers Bank bldg

Allison & Allison, Westinghouse bldg
Bailey, J. P., Magee bldg
Bair, Harry S., Westinghouse bldg
Barber & Howe, 927 5th av
Bartberger, Chas. M. & Son, Westinghouse bldg

Baumgardner & McCaffrey, Ferguson blk
Beatty, John L., 6th & Penn av
Beezer Bros., 6024 Penn av
*Bickel, Chas., 524 Penn av
Bier, Chas. W., 219 6th
Billquist & Lee, 341 6th av
*Boyd, Thos. W. & Co., House bldg
Brady, Wm. T., Lewis blk
Brosie, Louis O., 6200 Penn av
Bruening, Max, 5941 Baum
Butz, E. M. Co., Fulton bldg
Campbell, Jas. N., Penn bldg
Carlisle, Edw. J., Ferguson bldg
Carpenter & Crocker, 6024 Penn av
Clepper & Moffitt, 108 Smithfield
Cole, Jos. E., 326 4th av
Comes, John T., 1005 6th av
Cook, Thos. C., 219 Sycamore
Cornelius, T. Ed., 319 3d av
Cowperthwaite, Arthur, Fulton bldg
Crone, Daniel A., 7 Wood
Currier, Eugene L., Ferguson blk
Dean & Stopplet, 331 4th av
De Arment, Frank H., Fulton bldg
De Bobula, Titus, Hartje bldg
Denick, E. V., House bldg
Elliott, John B., 209 9th
Ellis, Frank, Jr., 316 Bushton
Emmerling, J. F., 5941 Baum
Ernst, C. F., House bldg
Estep, Harry S., 209 9th
Esterhammer, Geo., Penn bldg
Felket, Frank, 413 4th av
*Gilchrist, H. D., Frick bldg
Gunn, C. A., Union Bank bldg
Hall, S. A., House bldg
Hannah, Thos., Diamond Bank bldg
Heckert, Sidney F., Stevenson bldg
Herron, Thos. J., 209 9th
Hodgdon, C. W., Penn bldg
Hodgdon, Geo. & Son, Fitzsimmons bldg
Hodgens, H. Childs, Bissell blk
Irwin Bros., 209 9th
Isles & Call, 118 Blackadore av
Janssen & Abbott, Machesney bldg
Kauffmann, William, Lewis blk
Kerner, Edw. V., House bldg
Kiehnel & Elliott, 209 9th
Knoth, John V., Wabash bldg
Lang, E. B. & Bro., House blk
Lange, F. A., Lewis blk
Lloyd Bros., Lewis blk
Long, John A., Machesney bldg
MacClure & Spahr, Keystone bldg
McCollum & Dowler, 345 4th av
McKee, T. C., Arrott bldg
McMaster, Andrew, Westinghouse bldg
McMaster, Jennie K., Penn bldg
Marsteller, S. A., 246 3d av
Mazer, Jacob, Ferguson blk
Melber, F., 2d Nat. Bank
Melvin, Robert B., 3619 Forbes
Miller, A. K., Penn bldg
Miller, D. Knox, 237 4th av
Mills, Henry E., House bldg

When writing to firms whose
names appear in this book
please mention
HENDRICKS'
COMMERCIAL REGISTER.

Muller, C. Emil, 411 Wood
 Murray, Robert E., Wabash bldg
 Neal, Joseph L., 215 4th av
 Nirdlinger & Simpson, Diamond Bank bldg
 Obitz, John E., 6200 Penna. av
 *Orth, Geo. S. & Bros., 341 6th av
 Osterling, F. J., Times bldg
 Palmer & Hornbostel, Empire bldg
 Peoples, U. G. L., Magee bldg
 Phillis, Clarence L., 424 4th av
 Rieger, Chas. J., 307 4th av
 Robison & Wiukler, House bldg
 Rogers, Benj. F., 5628 Mignonette
 Rousseau, Marius, Fulton bldg
 Rousseau, S. L. R., Fulton bldg
 Rowland, Geo. M., 213 6th av
 Rutan & Russell, 255 5th av
 Sauer, F. C., 804 Peun av
 Schvan, Geo. H., 323 4th av
 Scott, T. H., Machesney bldg
 Shaw, Wm. J., Smith blk
 Sheridan, D. E., 6117 Penn av
 Sims, Wm. H., 515 Black
 Snaman, Wm. E., Empire bldg
 Stcen, James T., Fulton blk
 Stillburg, Joseph, 421 Wood
 Stolte, Fred'k H., Arrott bldg
 Stotz, Edward, 213 6th av
 Struthers, W. F., 209 9th
 Thomas, W. A., Park bldg
 Topp, O. M., Empire bldg
 Trimble, R. Maurice, Ferguson bldg
 Vrydaugh & Wolfe, 347 5th av
 Walter, W. G., 5941 Baum
 Wilkins, W. G. Co., Westinghouse bldg
 Williams, Chas. E., 422 5th av
 Willoughby, Chas. E., 424 4th av
 Wyss-Thalman, Vincent, Bissell bldg

PITTSBURGH—Davey & Crowther
 Dersheimer, A. E. R.

PLUM—Beers, J. W.

POTTSVILLE—Mould, C. T.

Hill, Wm. D.
 Reilly, Frank X.
 READING—Brown, D. F., 50 N 11th
 Gerhard, G. L., 619 Penn
 Head, H. Stanhope, 536 Penn
 Lance, L. D., Colonial Trust bldg
 Miller, Wm. F., Baer bldg
 Muhlenberg Bros., 2d Nat. Bank
 Mull, E. K., 415 Schuylkill av
 Ritcher, A. A., Colonial Trust bldg
 Scholl, Edw. Z., 540 Court
 Smith, Alexander F., Baer bldg
 Stetler, H. A., Boul., Wy'msg.

ROCHESTER—Earl Bros.

ROYERSFORD—Pooley, Vincent R.

SCRANTON—Blackwood, Harvey J., 136 N Wash'n av

Brown, Fred'k L., Real Estate Exchange
 Davey & Crowther, Coal Ex. bldg
 Davis, Edw. H., Connell bldg
 Duckworth, Jno. A., 44 Coal Ex. bldg
 Edson, Gilbert N., Connell bldg
 Hancock, Lewis, Jr., 123 Wyoming av
 Hartman, Albert Commonwealth bldg
 Lacey, B. T., Connell bldg
 Langley, Edw., Connell bldg
 Morris, Percival J., Amsden bldg
 Reisman, L., Dime Bank bldg
 Rutherford, Herman C., Pauli bldg
 Snyder, Robert W., 110 Wash'n av
 Weinechenk, Arthur A., 110 N Wash'n av
 Smith, J. L., Noel Court

SECANE—Loos, Richard E.

SHAMOKIN—Jury, W. U.

Schwartz, Wm. H.

SHARON—Clepper, E. E.

Rulifson, J. W.

Taylor, F. C.

SLATINGTON—Oplinger, G. T.

SOUTH BETHLEHEM—Leh. A. W.

ST. MARYS—Butsch, M. C.

SWISSVALE—Milligan, Chas. W.

TITUSVILLE—Bates, H. S.

UNIONTOWN—Cooper, A. P.

Fulton, J. C.

Jamison & Harmon

Sisley, Chas. M.

WARREN—Gruninger, F. H.

*Marston & Howard

Patterson, Lemuel A.

WASHINGTON—McCullum, J. M.

Vester, J. W.

WAYNE—Gugert, Francis A.

Shaw, J. William

WAYNESBORO—Buhrman, Chas. F.

Good, Daniel F.

Woltz, J. W.

WAYNESBURG—Fuller, Fred K.

WILKES-BARRE—Fagley, Nat'l, 144 Carey av

*Kipp, Albert H., Coal Exchange bldg

Kleemann, Otto A., 28 S Main

McCormack & French, Laning bldg

McGlynn, Owen, Simon Long bldg
 *Olds, F. L., Coal Exch. bldg
 Pettibone & Ireland, 2d Nat. Bank bldg
 Podmore, Thos., Bennett bldg
 Reiley & Schroeder, Bennett bldg
 Welsh & Sturdevant, Coal Ex. bldg
 WILKINSBURG—Dudgeon, A. & Son, 900 Wood
 Milligan, Chas. W., Carl bldg
 Milligan & Miller, Franklin st
 Scheibler, F. G., Jr., 700 Wood
 WILLIAMSPORT—Myers & Fisher, Jamison blk
 Reitmeyer, T. P., 360 Market
 Ritter, M. B., 17 W Market sq
 Talley, G. W., 612 W Edwin
 YORK—Dempwolf, J. A.
 Hamme & Leber, Hay bldg
 Keyworth & Co.
 Stair & McClymont
 *Willis, B. F.
 Yessler, H. E.

RHODE ISLAND.

CENTRAL FALLS—Desvoyunx, Helia L.
 CRANSTON—Trice, Anthony F.
 NARRAGANSETT PIER—Kent, Willard
 NEWPORT—Easton, Roland J., 201 Thames
 Johnston, John D., 69 Mill
 Newton, Dudley
 Smith, Jas., 20 Bath rd
 Stevens, Joseph G.
 PAWTUCKET—Bliss, James A.
 Daniels, Fred G.
 Drowne, Fred E.
 Fuller, Samuel B.
 Humes, Albert H.
 Learned, Chas. H.
 Monahan, R. C. N.
 Page, George H.
 Seabury, Dwight (Mill Arch. & Eng.)
 PROVIDENCE—Almy, Arthur Lewis, 19 College
 *Angell & Swift, 87 Weybosset
 Banning & Thornton, 87 Weybosset
 Burlingame, C. E., 87 Weybosset
 Clarke & Howe, 72 Weybosset
 Colwell & Gould, 146 Westminster
 Cooper & Bailey, 87 Weybosset
 Crudell, Chas. W. & Co., 215 W Exchange
 *Field, Fred E., 48 Custom House
 Gould & Hall, 146 Westminster
 Hall, C. A., 371 Broad
 Hill, Arthur E., 75 Westminster
 Hilton & Jackson, 75 Westminster
 *Hoppin & Ely, 32 Westminster
 Isham, N. M., Banigan bldg
 Langworthy, Leslie P., 37 Weybosset
 Makepeace, C. R. & Co., 429 Butler Ex.
 Martin, B. S. D., Industrial Trust bldg
 Martin & Hall, Union Trust bldg
 Murphy & Hindle, 146 Westminster
 *Nickerson, Edw. I., 29 Exchange
 Page & Page, 87 Weybosset
 Phillips, Lemuel O., 15 Camden av
 Praray, Chas. A. M. & Co., 48 Custom House
 *Sawtelle, F. J., Wilcox bldg
 Shaw, Jas., Jr., 17 Arlington av
 Shurrocks, A. F., Wilcox bldg
 Slocomb, Harry A., 48 Custom House
 *Stone, Carpenter & Sheldon, 49 Westminster
 Thornton & Thornton, 152 Weybosset
 Walker, Wm. R. & Son, 17 Custom House st
 Woods, Frank C., 49 Westminster
 Wright, B. W., Francis bldg
 WOONSOCKET—Fontaine & Kinnicutt
 Kent, Willard
 Paradis, A. H.
 Spaulding, G. W.

SOUTH CAROLINA.

AIKEN—Laird, John
 ANDERSON—Casey, Jos. Huntley
 CAMDEN—Fort, O. M.
 Mitcham & Beach
 CHARLESTON—Devereux, J. H., Post Office bldg
 Newcomer, John D., 22 Broad
 Todd, A. W., 39 Broad
 COLUMBIA—Edwards & Walter, Exchange Bank bldg
 La Motte, A. Gamewell, 1205 Gervais
 Sams, J. H., 1423 Main
 Shand & Lafaye, 1328 Main
 Wilson, Sompayrac & Urquhart
 Zeigler, D. G., Nat'l Loan & Ex. Bank bldg
 GREENVILLE—Edens, A. W.
 Lawrence, J. R.
 Lockwood, Greene & Co.
 Serrinc, J. E. (Mill. Arch. & Eng.)
 ORANGEBURG—Johannsen, Henry H.

ROCK HILL—White, H. E.
 SPARTANSBURG—Howe, W. B. W., Palmetto bldg
 Proffitt, L. D.
 SUMTER—Ziegler, D. G.

SOUTH DAKOTA.

ABERDEEN—Jeffers & Henry
 Van Meter, E. W.
 DEADWOOD—Jewell, O. C.
 EMERY—Zeeman, Garrett & Co.
 RAPID CITY—Holmes, Zachariah
 SIOUX FALLS—Dow, W. L. & Son
 Schwarz, Jos.
 WATERTOWN—Hockman, M. A.
 Shoultz, A. H.

TENNESSEE.

BRISTOL—Hoffmeister, W. C.
 CHATTANOOGA—Adams, G. Q., 336 Chestnut
 Bearden & Foreman, Chamberlain bldg
 Gerald, S. C., Chamberlain bldg
 Hunt, R. H., News bldg
 Huntington & de Sabla, News bldg
 Reamer, D. A., 1st National Bank bldg
 Snoddy, J. L., Times bldg
 Stroop, D. V., 813 Market
 CLARKSVILLE—Wilson, G. B. & Co.
 FRANKLIN—Perry, G. H.
 Williams, G.
 JACKSON—Heavner, R. A.
 Vanderbrook, P. L.
 KNOXVILLE—Barber & Klutz, French & Roberts bldg
 *Bauman Bros., Henson bldg
 Gildard, Wm. H., Emerald av
 Parmelee, M. E., 315 W Clinch av
 Waters, Lewis C., Pickle & Turner bldg
 MEMPHIS—Alsup, J. C., 309 S 3d
 Alsup & Wood, Randolph bldg
 Barrett, A. D., 120 Wash'n av
 Bentley, C. J., 127 Madison av
 Chighizola, A. A., Scimitar bldg
 *Clinton Bros. Co., Memphis Trust bldg
 Cook, J. B., Randolph bldg
 Curtis, R. A., 150 S 2d
 De Van, Leo, 6 Randolph bldg
 Eely, Fred. H. & Co., 162 Court av
 Galsford, Jno., Randolph bldg
 Hanker & Cairns, Scimitar bldg
 Jones & Furbinger, Porter bldg
 Levasseur & De Beughem, Randolph bldg
 McGeoy, Frank, Cotton Exchange bldg
 Morrison, T. B., 854 N Crockett pl
 Shaw & Pfeil, Tennessee Trust bldg
 Weathers, L. M., Memphis Trust bldg
 MORRISTOWN—Smith, Roswell E.
 NASHVILLE—Carter, C. C., 2207 Murphy av
 Colley, Clarence, Cham. of Com. bldg
 Ferguson, Chas. A., Arcade
 Hodge, B. J., 1 Cole bldg
 Hutchinson, C. L., 220 Trentlan
 Larkin, Fred'k, Stahlman bldg
 Laurent, E. E., Arcade
 Lockhart, G. L., 1st Nat. Bank bldg
 Marr, Thos. S., 76 Cham. of Com. bldg
 *Sharp, Robert, Cole bldg
 *Thompson, Asmun & Norton, Cole bldg
 *Thompson & Nevins, Noel bldg
 Turbeville, R. E., Homestead bldg
 Wheeler, Runge & Dickey, Arcade
 Williams, J. A., Jr., Cole bldg
 Williamson, P. J., 912 Edgehill av
 Yeaman, J. H., Berry bldg

TEXAS.

ABILENE—Preston, Wm. Proctor
 AUSTIN—Andrewartha, John, 108 W 8th
 Boyce, Guy S., Pendexter bldg
 Endress, Geo. A., Bosche bldg
 *Eyres, W. G., 103½ E 7th
 Page, C. H., Jr., & Bro., 505 Congress av
 Watson, A. O., Pope bldg
 BEAUMONT—Brechlu, J. B.
 Ettler, Jno. A.
 BEEVILLE—Archer, R. W.
 BONHAM—Peters, Will
 COLLEGE STATION—Giesecke, F. E.
 CORSICANA—Minor, John R., P. O. Box 612
 DALLAS—Baker, Wm. H., 281 Main
 Barlow, Henry C., 100 S Jefferson
 Bulger, C. W. & Son, Flateau bldg
 Flanders, J. E., 405 Main
 Gill, C. A. & Son, Kerby bldg
 Hubbell & Green, N Texas bldg
 Irwin, Ike, 200 Penna av
 Kirby Bros., 159 12th
 Lang & Witchell, Wilson bldg
 Martens, Wm., 318 Commerce
 Moad & Skielvig, North Texas bldg
 Mozier, H. P., Flateau bldg

Overbeck & Willis, Wilson bldg
 Renard, P. C., 969 Ross av
 Rowe, Jos. W., 120 McKell
 Sangulnet, Staats & Hill, Wilson bldg
 White, D. P., 194 Caddo
DENISON—Niemeyer, F. G., 1130 W Hull
 Shannon, J. A., 820 W Bond
 *Tulloch, John
EL PASO—Brackney, L. D., Morehouse blk
 *Tulloch, John
 Hughes, Matthew, 115 S El Paso
 *Kneezell, Edward
 Krause & Fritch, Plaza blk
 Patton, S. E.
 Trost & Trost
FORT WORTH—Hoeffer, C., 603 Main
 Moore, Stewart, Reynolds bldg
 Newell, Walter, Continental Bank bldg
 Sanguinet & Staats, F. & M. Bank bldg
 Smith & Schenk, Atclier bldg
 Taylor, W. E., Continental Bank bldg
 Waller, M. L., Columbia bldg
 Welhman, L. B., 711 Main
GALVESTON—*Clayton, Nicholas J., 1205 35th
 *Clayton, Nicholas J., 1205 35th
 McKenzie, Donald N., 2107 Post Office
 Roth, Max J., 2107 Mechanic
 Stowe, G. B., 220 22d
HOUSTON—Cooke & Co., Houston Theatre
 De Lisle, Adrien, Levy bldg
 Glover, F. S. & Son, Mason blk
 Gray, Richard H., 1104 San Jacinto
 Green, L. S., Commercial bldg
 Jonas & Ruc, Moore-Burnett bldg
 Jones, Chas. P., Binz bldg
 Litzmann, Paul, 1015 Preston av
 Lorehn, Ollie J., Temple bldg
 Marett, Fred J., 1713 Preston av
 Oliver, S. A., 2408 Baldwin
 Page, Chas. H., Jr., Mason blk
 Pittman, D. D., 1002 Main
 Rudsill, O. H. P. & Son, 1012 Texas av
 Sanguinet, Staats & Seutter, 1st Nat. Bank
 Steele, R. D., 1st Nat'l Bank bldg
 Wallace, Harry E., 2110 Leona
 Weaver, S. H. & Bro., 907 Main
KERRVILLE—Short & Williams
LAREDO—Southered, A. G.
MARSHALL—Lancaster, C. G.
MASON—Grosse, R.
NACOGDOCHES—Whitcorn, George
PARIS—Barry & Smith
 Geiger, James I.
PORT ARTHUR—Eimendorf, B. S.
SAN ANGELO—Ruffini, Oscar
SAN ANTONIO—Coughlin & Ayres, 228 W
 Commerce
 Dielmann, L. M. J., 306 E Commerce
 Gaenslen, Fred'k B., Almo Nat'l Bank bldg
 Giles, Alfred, 114 W Houston
 Herff, A. A., 308 E Houston
 Page, Harvey L. Co., 207 Almo Plaza
 Pheiph, H. T., Hicks bldg
 Pierce, R. L., 221 Losoya
 *Wahrenberger, J. & Son, 218 E Commerce
SAN MARCOS—*Northcraft, E. & A. E.
SHERMAN—Gill, W. L.
 Thiessen, H. J. J. (Oil Mills, etc.)
 *Tulloch, Jno.
SOUTH AUSTIN—Andrewartha, John
TURNERSVILLE—*Smith, Jas. J. M.
TEXARKANA—Burdal Co.
 Stewart, Sidney
TYLER—Wells, L. W.
VICTORIA—Leffland, Jul.
WACO—*Dodson, W. C.
 Dudley, W. W.
 Herbert & Green
 *Larmour, W. W. & J. R.
 Pearson, T. Brooks

UTAH.

LOGAN—Barrett, C. T.
 Monson & Schaub
OGDEN—Graves, G. A., 1st National B'k bldg
 Smith & Hodgson, Eccles bldg
 Woods, F. C. & Co., 1st Nat'l Bk bldg
PROVO CITY—Davies, T. T.
 Watkins, R. C.
SALT LAKE CITY—Craig, J. C., David Keith
 bldg
 *Dallas & Hedges, Deseret Nat'l Bank bldg
 Dart, D. C., Atlas blk
 Erskine & Lilianburg, Com. Club bldg
 Hale, Fred A., Commercial blk
 Kletting, R., Hooper-Eldredge bldg
 Martin, L. D., Tribune bldg
 Neuhausen, C. M., 528 Dooly blk
 Onderdonk, C. B., Commercial bldg
 Ulmer, F. M. & Son, Commercial Club bldg
 Ware & Treganza, 62 Hooper bldg
 Young & Son, Templeton bldg
 Woods, J. C., Templeton bldg

VERMONT.

BARRE—Colburn, F. E.
 Walker, Frank A.
BENNINGTON—Bull, Wm. C.
 Middleton, M. B.
BRATTLEBORO—Hines, Geo. A.
BURLINGTON—Austin, Frank Lyman
 *Austin, Z. T., 244 College
 Crandall, C. N., Strong bldg
 Lawrence, A. I.
 Swett, L. J.
FAIR HAVEN—Rolin, E. J.
HARTFORD—Newton, L. S.
MONTPELIER—Smith & Walker
NEW HAVEN—Hinman, N.
NEWPORT—Story, G. D.
PASSUMPSIC—Eastman, R. B.
POULTNEY—Towne, Wm. L.
 *Wilson, M. Ashley
RUTLAND—Paige, C. E.
 Smith, Arthur H.
ST. ALBANS—Best, L. L. C.
ST. JOHNSBURY—Eastman, R. B.
 Packard, Thornton

VIRGINIA.

ABINGDON—Musser, D. & Son
ALEXANDRIA—Clark, Wm. L.
BALLSTON—Gideon, Walter
BERKLEY—See Norfolk.
BERRYVILLE—*Ogden, R. K.
CHARLOTTESVILLE—Vandergrift, W. T.
DANVILLE—*Deitrick, W. H., 506 Patton
 *East, C. H., 245 Main
 *Graham, R. B., 312 Patton
FALLS CHURCH—Von Herbulio, A. O.
FREDERICKSBURG—Wroten, G. W.
HARRISONBURG—*Bucher, W. M. & Son
LYNCHBURG—Chesterman, Aubrey
 Frye, Edw. Graham
 Lewis & Burnham
NEWPORT NEWS—Chandler, S. B.
 Connell, Geo. E.
 Marve, Edw. A.
NORFOLK—Breese & Mitchell, Atlantic Trust
 bldg
 Chandler, Samuel B., Lowenberg bldg
 Dwyer, H. Irving, Lowenberg bldg
 Eberhard, Arnold, Bank of Commerce bldg
 Ferguson & Calrow, Law bldg
 Hebard, Vance, Colley av c 38th
 Lee, Jas. W., 13 Granby
 Neff & Thompson, Atlantic Trnst bldg
 Peebles, John Kevan, Law bldg
 Taylor & Hepburn, Academy of Music bldg
 Zepp, Wm. T., Granby & 19th
PETERSBURG—Waite, Harrison, 21 N Sycamore
PORTSMOUTH—*Overman, Edw.
RICHMOND—Anderson, D. Wiley, 920 E Main
 Bryant, Chas. K., 1014 E Main
 Clinton & Russell, Mutual Assurance Society
 *Dimmock & Lee, 1111 E Main
 Howell, O. K. Co., 729 E Main
 Hunt, Albert F., 1107 E Main
 Noland & Baskerville, Cham. of Com. bldg
 Ruehrmund, Carl, 918 E Main
 West, Wm. C., 1103 E Main
 White, Peter J., 1110 E Main
ROANOKE—Huggins, H. H.
 Miller, H. M.
SINGER GLEN—Staley, T. O.
STAUNTON—Collins, T. J. & Son, Crowle bldg
SUFFOLK—Winborne, P. J.
WARRENTON—Lind, E. G.
WINCHESTER—Diffenderfer, E. H.
 Diffenderfer, John
WYTHEVILLE—Williams, Geo. C.

WASHINGTON.

ABERDEEN—Reid & Briggs
BALLARD—Bird, T. G.
 Wilkie, Geo. A.
BELLINGHAM—Burns, F. C.
 Cox, Wm.
 Lee, Alfred
 Thorp, Frank
BUCKLEY—Robinson, E. L.
CHEHALIS—Hess, Anton
CHELAN—Cox, F. A.
CLARKSTON—Jennings, W. S.
COLFAX—McCord, H. H.
COLUMBIA—Pettit, Edwin C. (City)
 Shand, Chas. K.
DAYTON—Burrows, Wm. H.
EVERETT—Ehlers, P. W.
 Foster, G. B.
 Heide & de Neuf
 Hove, Chas.
 Moller, W. T.
 Turnbull, R. F.

GARFIELD—Myers, C. C.
GOLDENDALE—Andrews, W. J.
GREEN RIVER—Leahy, D.
HOQUIAM—McGlauffin, E. O.
 Mourant & Watson
MONTESANO—Kemp, A. C. St. G.
NORTH YAKIMA—Bissell, E. A.
 Perrin, M. M.
OLYMPIA—*Barr, Solomon E., Box 551
POMEROY—Schmidt, W. J.
PULLMAN—Swain, Wm.
RICE—Chamberlain, Chas.
SEATTLE—Bebb & Mendell, Denny bldg
 Bird, T. G., 2239 14th av, W
 Blackwell, J. E., Mutual Life bldg
 Bod, A. A., 1429 5th av
 Bodley, Alfred, Burke blk
 Boone, W. E., 717 New York blk
 Breitung & Buchinger, Walker bldg
 Couklin, R. Seymour, 1633 Summit av
 Corner, J. M., Alaska bldg
 Cotterill & Whitworth, New York blk
 Donohoe, P. J., Denny bldg
 Dozier, Hy., Sullivan bldg
 Drysdale, Matthew, 2113 1st av
 Eams & Young, Alaska bldg
 Engelmann, Ludwig, 102 W 45th
 Everett, J. F., Walker bldg
 Finch, F. D., 1 Matthes blk, Ballard
 Gauntt, Newton C., Peoples Sav. Bank bldg
 Gould, A. W., Arcade bldg
 Graham & Myers, Lowman bldg
 Green, E. Ellsworth, Peoples Sav. Bank bldg
 Griffith Co. (Inc.), Alaska bldg
 Heide, A. F., Washington bldg
 Heusgen, Aug., 2309 E Madison
 Houghton, E. W., 414 Collins bldg
 Hume, B. G., 1911 E Columbia
 Huntington, D. R., Colman bldg
 Jennings, S. A., 19 Adrian et
 Johnson, David & Sons, 1430 26th av
 Johnson, J. A., New York blk
 Josenhans & Allan, 74 Hinkley blk
 Kerr & Rogers, Hancock bldg
 Kimball, W. D., New York blk
 Kingsley & Bittman, Globe blk
 Knapp & West, Colman bldg
 Leibig, Philip, 1127 27th av
 McBean, Andrew, Colman bldg
 Middlebrook, J. L., 527 23d av, S
 Miller, E. A., New York blk
 Missigman, L. N., New York blk
 Osterud, L. H., 5260 Brooklyn av
 Reineohl, C. A., 1711 E Fir
 Perkins, F. H., Epler blk
 Pomerantz, I., Peoples Bank bldg
 Raiston, A. H., 1925 9th av, W
 Robertson, R. L., Shafer bldg
 Ryan, Henderson, Globe bldg
 Sankey, E. W., New York blk
 Saunders & Lawton, Alaska bldg
 Schack, J. H., Downs blk
 Sexton, F. A., Lumber Ex.
 Somervell & Cote, Denny bldg
 Soper, J. E., 4035 Whitman av
 Spading, A. W., Colman bldg
 Steele, W. K., Colman bldg
 Stephen, Jas., New York blk
 Stewart, J. H., 4331 Sunnyside av
 Storey, E. P., New York blk
 Stowe, W. C., Lumber Ex.
 Taft, J. O., Arcade bldg
 Teague, J. C., Colman bldg
 Thomas, Harlan, Walker bldg
 Thompson, C. L., 40 E Wilbert, Ballard
 Thompson & Thompson, Maynard bldg
 Umbrecht, Max, Globe blk
 Van Sicklen, W. D., New York blk
 Voorhees, V. W., Eitel bldg
 Wager, E. A., New York blk
 Weston, E. J., 126 N 7th av
 White, W. P., Wash'n bldg
 Winkersham, Albert, Maynard bldg
 Wilson Clayton D., Hancock bldg
 Wixson, Geo., 538 25th av, S
 Zook, C. A., Globe blk
SPOKANE—Cutter & Malmgren, Exchange bldg
 Dow, John K., Empire State bldg
 Gilbraith, I. J., Hyde bldg
 Held, Albert., Hyde blk
 Hyslop, W. W., Rookery bldg
 Jones, Alfred, Fernwell bldg
 Preusse & Zittel, Jameson bldg
 Rand, L. L., 517 The Rookery
 Ritchie, W. A., 84 Jameson bldg
 Russell & Vincent, Mohawk blk
 White, C. Ferris, The Payton
TACOMA—Bullard, Geo. Wesley, Provident
 Darner, C. A. & Co., 1111 O
 Heath, Fred'k, Fidelity bldg
 Hill, I. H., Provident bldg
 Kenney, H. M., Bernice bldg
 Knapp, I. Jay, Provident bldg

Larkin, John P., Arcade bldg
Proctor & Farrell, Nat. Bank of Com. bldg
Russell & Babcock, Provident bldg
Trust, Geo., Bank of Cal. bldg
Woodroffe, Arnott, Fidelity bldg
VANCOUVER—Hermans, J.
Reese, J. S.
WAITSBURG—Abbott, J. E.
WALLA WALLA—Babcock, George W.
Osterman, Henry
Thompson, G. P.
WENATCHEE—Rogers, F. A.
WHATCOM—Cox, Wm.
Lee, Alfred

WEST VIRGINIA.

BLUEFIELD—Carter, T. T.
Chandler, S. B.
BUCKHANNON—Hughes, D. C.
CEREDO—Gieske, J. R.
Hoard, S. F.
CHARLESTON—Albright, Harrison
Cornell, Geo. E.
Hennemann, Geo.
Robenstein & Werner
Warne, H. Rus
CHARLESTOWN—Holmes, Julius C.
†Nohr, Marshall J.
CLARKSBURG—†Gladden & Alexander
Hickman, Charles L.
Holmboe & Lafferty
Wood, E. J. & Co.
DIAMOND—Kuney, M. D.
DUNMORE—Nore, J. A.
FAIRMOUNT—Badgley, Chas. G.
Giffin, Geo. D. & Co.
Hawkins, W. E.
Lyons, A. C.
GRAFTON—Tibbets, Jno. C.
HINTON—Lavender, Jas. B.
HUNTINGTON—Day, R. L.
Lowe, L. O.
Stewart, J. B.
KEYSER—Dean, Oscar J.
MORGANTOWN—Jacobs, Elmer F.
MOUNDSVILLE—Stevenson, H. R.
NEW MARTINSVILLE—Alexander, W. J.
Chaplen, J. P.
PARKERSBURG—Adair, R. H.
*Patton, Wm. Howe
POWERS—Foster, Frank
SHEPHERDSTOWN—Humrickouse, Sam'l J.
WELLSBURG—Wells, M. L.
WHEELING—Franzheim & Klieves, 1223 Chap-
line
Giesey & Faris, 1409 Market
Leiner, Jos. & Son Co., Mut. Sav. Bank bldg
McCarty, Chas. D., Reilly bldg.
Mooney, Geo. S. & Co., Brown bldg
Vester & Son, Mutual Saving Bank bldg
WINDOM—Phleiger, S. Z.

WISCONSIN.

APPLETON—De Long, Wallace W.
O'Keefe-Orbison Engineering & Consulting
Pride, Chas. B. (Mill Architect)
Wildhagen, Herman
ASHLAND—Wildhagen, Henry
AUGUSTA—Sadler, A. E.
BARABOO—McFarland, R. W.
BELMONT—Simmons & Wichmann
BELOIT—Hand, I. H.
Kemp, F. H.
BLACK BEAVER FALLS—†McGilloray, J. J.
BRODHEAD—Mack, W. B.
CAMBRIA—Jones, D. E.
CEDARBURG—Hilgen, Wm. F.
CHIPPEWA FALLS—Snyder, Samuel
DEERFIELD—Halverson, M.
EAU CLAIRE—Brown, Chancellor L.
FOND DU LAC—Hennen, J. E.
Pillsbury & McCracken
Sweet, Franklin
FONTANA—Beebe, J. D.
FREMONT—Arndt, Wm.
SALESVILLE—Barker, Wm. H.
GRAND RAPIDS—Jacobson & De Guere
GREEN BAY—Anderson, Chas., Gray blk
Foeller & Schober, Fox blk
Reynolds, Wm. E., 113 S 11th
JANESVILLE—Hilton, L. L.
KAUKAUNA—Coppes, John
KENOSHA—Cowell, Herbert
Gastra, T.
LACROSSE—Bennett, Wells E.
Parkinson & Deckendorf
Schick & Roth
LADYSMITH—Dickinson, H. E.
LAKE MILLS—Hunzicker, Jno.
MADISON—Beckman, A. H.
Claude & Starck, Badger blk
Gordon, J. O. & Son

Jennings & Kronenbelg
Peabody, Arthur, Univ. of Wisconsin
Porter, Lew F. (Sec. to Capitol Improve-
ment Commission)
Small, Alvan E.
MANITOWOC—Raeuber, W. J.
Tegen, C. H.
MENASHA—Watke, C. H.
MENOMINEE—Charles, John
Hills, J. B.
Maas, C. W.
MILWAUKEE—Andre, Frank W., 533 12th
Betts, Henry A., 106 Mason
Brielmaier, E. & Sons Co., University bldg
Buemming & Dick, 1107 Pabst bldg
*Charlton & Kuenzli, 82 Wisconsin
Christiansen, P. M., 983 Howell av
Coldewe, Gustav A., 829 6th
Crane, Chas. D., 91 Wisconsin
Davelaar, Wm., 204 Grand av
Dietheim, Titus, Empire bldg
Dohmen, Anton, 290 3d
Dornbach, Nicholas J., 988 Kinnikinnic av
Ehlers, George C., 723 3d
Ellesen, Andrew, 479 National av
Eschweiler, Alexander C., 141 Wisconsin
Esser, Herman J., 82 Wisconsin
Evans & Marshall, 82 Wisconsin
Fernekas & Cramer, Pabst bldg
*Ferry & Clas, 419 B'way
Fink, Charles A., 102 Wisconsin
Fitzgerald, Chas., Hathaway bldg
Foster, John W., Empire bldg
Fraser-Mather Co. (Mill Arch. & Eng.), 667
Gerlach, H. C., 853 5th E Water
Graf, Fred., 307 Grand av
Guthat, Albert W., 647 6th av
Hanson, Chris, Germania bldg
Hood & Tullgren, 86 Michigan
Jacobi, Jacob, 290 3d
Kadow, Stanley F., 208 Howell
Keller, Chas. J., Germania bldg
Kemnitz, Geo. A., 983 Howell av
Kirchhoff & Rose, 201 Grand av
Koch, Edw. V., 871 Humboldt av
*Koch, H. C. & Son, 120 Wisconsin
Leenhouts & Guthrie, 102 Wisconsin
Leipold, Gus. H., 160 Martin
Leiser & Holst, Germania bldg
Lesser, Chas. L., 331 Grove
Liebert, Eugene R., 107 Wisconsin
Linde, Carl L., 141 Wisconsin
Lotter, Henry G., 427 Milwaukee
Menge, John Jr., 307 Grand av
Messmer, Hy & Son, 473 E Water
Moller, John A., 519 Jefferson
Moore, Peter N., 26 34th
Peege, E. J., 643 Oakland av
Ringer, O. F., 106 Mason
Rische, Chas. H., 2227 Grand av
Rosmith, Jos., 339 23d
Roth, John, Jr., 307 Grand av
Rotier, H. J., Goldsmith bldg
Russell, Howland, 106 Mason
Schuchardt, Wm. H., 141 Wisconsin
Schutz, Theo. F., 296 W Water
Seims, Albert C., 428 Grand av
Siegel, J. N., 657 12th
Uehling, O. C., 120 Wisconsin
Van Ryn & De Gelleke, 211 Grand av
Velguth, Fred., 85 Oneida
Wade, Chas. G., 499 B'way
Wiskocil, A. V., 134 Grand av
Wolff & Ewens, 437 E Water
Zillgitt, Gustav A., 1059 1st
MUSCODA—Pfeister, H. D.
OSHKOSH—Stevens, E. E. & Co.
Waters, William
PLATTVILLE—Kleinhammer, H.
PORTAGE—Williams, C. H.
PRAIRIE DU SAC—Dresen, Jos.
RACINE—Burfeind, William, F., 500 Main
*Chandler, James G., 400 Main
Davis, D. R., 214 5th
Flegel, A. L., 220 5th
Funston, E. B., Robinson bldg
Guilbert, A. A., Robinson blk
Jillson, B. H., Com. Bank bldg
REEDSBURG—Rork, W. R.
RIPON—Radway, Marcus C.
Webster, F. E.
SHEBOYGAN—Hilpertshauser, Charles
†Weeks, William O.
SPARTA—Parkinson, A. E.
STURGEON BAY—Crandall, F. D.
SUPERIOR—Barber & Barber, Hammond blk
Puck, Henry, Breunig blk
Wirth, Carl, Bk. of Com. bldg
THIENSVILLE—Muller, John E.
WATERTOWN—Lindsay, F. L.
WAUKESHA—Anderson, Charles
WAUSAU—Burkhardt, Paul E., 503 St. Paul
Dean, Philp
WAUTOMA—Webster, F. E.

WESTFIELD—Kendall Bros.
WEST SUPERIOR—Barber & Barber
Thomas, Howard
Wirth & Bray
YUBA—Hynek, J.

WYOMING.

CHEYENNE—Du Bois, William, 202 W 17th
Julien, J. P., Keefe bldg
CODY—Taylor, G. B.
EVANSTON—Small, N. E.

Architects of Canada BRITISH COLUMBIA.

GOLDEN—Orchard, Ernest A.
KAMLOOPS—Lee, Robt. Henry
NANAIMO—Kelly, Jas.
NELSON—Carrie, Alex.
Crane, Harry
Macdonald, Jas. A.
NEW WESTMINSTER—Clow, C. H.
ROSSLAND—Honeyman, Jno. J.
TROUT LAKE CITY—Taylor, Geo. W.
VANCOUVER—Bracken, D. Hirst
Blackmore, Wm. & Sons
Dalton & Eveleigh
Grant & Henderson
Honeyman, Jno. J.
Julian, T. E.
McLean & Bracken
Parr & Fee
Richards, Wm. A. S.
Whiteway, W. T.
Wickenden, C. O.
VICTORIA—Hooper & Watkins
Keith, J. C. M.
Muir & Maxwell
Pearce, T. S.
Rattenbury, F. M.
Sedger, Thos. D.
Sorby, Thos. C.
Wilson, W. Ridgway
WINDEMERE—Hancock, A. C.

MANITOBA.

BRADWARDINE—Hunter, Robert
BRANDON—Lailey, W. Nicholson
Shillinglaw, W. H.
Sword & McEachern
HOLLAND—Maxwell, Andrew
WINNIPEG—Architectural Engineering Co. of
Canada, Sylvester-Willson blk
Atchison, Jno. & Co., 51 Merchants Bank
bldg
Blair, Wm. Wallace, Northern Bank bldg
Bridgman, C. S., Canada Life bldg
Browne, George, 343 Main
Cadham, Jas. H., McIntyre bldg
Chisholm, James, Sylvester-Willson blk
Clemens, Paul M., 468 Main
Darling, Pearson & Over, Canada Life bldg
Eade Bros., Union Bank
Evans, F. R., 166 Pacific av
Fingland, Wm., 490 Main
Gauld, J. A., 280 College
Greenfield, J. Canada Life bldg
Hooper & Walker, McIntyre blk

When writing to firms
whose names appear
in this book please
mention

HENDRICKS'
COMMERCIAL
REGISTER.

Hooper, Samuel., Parliment bldgs
 Horwood, V. W., 177 McDermott
 Lait, W. B., Merchants' Bank bldg
 Matthews, Herbert, Merchants' Bank bldg
 McCowan, Hugh, 490 Main
 Melville, A. & W., Union Bank bldg
 New, H. H., Union Bank bldg
 Northwood, Noffke & Chivers, Merchants' Bank bldg

Oldershaw, C. R., Portage c Fort
 Palmer, Fred A., Clements blk
 Peters, S. Frank & W. A., 392 Main
 Rugh, Herbert B., Union Bank bldg
 Russell, J. H. G., 343 Main
 Schwab, Jno., 274 Selkirk
 Smith, D., 248 Smith
 Sprott, Rolph & Cryslar, 499 Main
 Stone, Howard, 363 Main
 Wheeler, C. H., 197 Lombard
 Woodman, John, Merchants' Bank bldg

NEW BRUNSWICK.

CHATHAM—McDonald, H. B.
 MONCTON—Sincennus, A.
 ST. JOHN—Brodie, T. Nell, 42 Princess
 Holt, F. W., 94 Prince, William
 McKean & Dunn, 49 Canterbury
 Mitchell, Willard M., Ritchie bldg
 Mott, Henry H., 61 Prince William
 SUMMERVILLE—Stevens, H. M.

NEWFOUNDLAND.

ST. JOHN'S—Southcott, J. V., Monkstown rd

NORTHWEST TERRITORY.

CALGARY—Wilson, J. Llewellyn

NOVA SCOTIA.

HALIFAX—Bush, Henry, 60 Bedford row
 Dumaresq, J. C. & Son, St. Paul bldg
 Johnson, R. A., 56 Barrington
 Whiteway, W. T. & Horton W. T.
 LIVERPOOL—Boucher, Art.
 MIDDLETOWN—Fairn, Leslie R.

ONTARIO.

ALMONTE—Bell, Andrew
 BARRIE—Kennedy, Thos.
 BELLEVILLE—Henley, Thos.
 BERLIN—Kutchel, Jonas
 BROCKVILLE—Allen, Geo. A.
 Liston, Owen E.
 CASTLEMORE—Jullan, George
 CHATHAM—Powell & Carswell
 Rntley, T. J.
 COLD SPRINGS—McEwan, James
 COLLINGWOOD—Stephens, Arthur
 CUMMINGS BRIDGE—Watts, J. W.
 DESERONTO—Massie, R.
 EDEN MILLS—White, J. P.
 GALT—Mellish, F. W.
 GARDEN ISLAND—Mullen, John
 GLEN MORRIS—Scott, Thos.
 GRAVENHURST—Cassell, Henry
 GUELPH—Day, John
 McPhie & Mahoney
 Wideman, L. C.
 HAMILTON—Balfour, James, 47 James
 Clohec, Robert, 8½ John
 Edwards, W. A., 7 Hughson
 Hills, Lucien, 60 King
 La Chance, W. W., 140 Markland
 McPhie, Stewart, 158 King, E
 Mills, Charles, 2½ James
 Munro, Lawrence, 10 Main, E
 Patterson, E. B., 167½ King
 Peene, Alf. W., 47 James
 Rastrick, F. J. & Son, 17 Main, E
 Stewart, Wm. & Walter, 7 Hughson
 Witton, W. P., 28 James, S
 HARRISTON—Gray, George
 KINGARF—Hall, E. A.
 KINGSTON—Ellis, Arthur, 115 Brock
 Newlands, Wm., 258 Bagot
 Power & Son, Merchants' Bank
 Smith, Henry P., 39 Brock
 KINGSVILLE—Maycock, John A.
 LAKESIDE—Schrubsole, Ed.
 LEAMINGTON—Maycock, Jno. A.
 LISTOWEL—Blinning, W. E.
 LONDON—Buffy, M. L., 219 Clarence
 Craddock, Geo., 435½ Richmond
 Goble, Henry, 6 St. George
 Joanes, Wm., 379 Queen's av
 McBride & Farncomb, 213 Dundas
 Moore & Henry, Albion bldg

NAPANEE—Clift, J. A.
 NORTH BAY—Thomson & Angus
 ORILLIA—Crocker, W. H.
 ORTON—Hemmling, C. E.
 OTTAWA—Alexander, F. J., 33 Sparks
 Architectural & Engineering Co., Sparks
 Bayly, G. M., 49 Metcalfe Chambers
 Chesterton, Walter, 143 Nepeau
 Edey, Moses C., 51 Sparks
 Hamel, F. M., 74 Sparks
 Hodgson, Wm., 9 Cathcart
 Horwood, E. L., Bank St. Chambers
 Mather, James, 110 Wellington
 OWEN SOUND—Forester, Julian O.
 PARIS—Kay, John
 PEMBROKE—Morris, J. I.
 PETERBORO—Belcher, John E.
 Blackwell, Wm.
 PETROLIA—Erb, Isaac
 PORT ARTHUR—Aylsworth, M. B.
 PORT ELGIN—Kinsey, Solomon G.
 ROSTOCK—Gaul, C.
 ST. CATHARINES—Allan, W. B.
 Bellan, Wm.
 SARINA—Burrowes, M. R.
 Fawcett, R. J.
 Phillips, H. G.
 SEAFORTH—Beattie, R. & Co.
 SHELBURN—Watson, Thos. J.
 SMITH'S FALLS—Martin, G. F.
 STONY POINT—McGuire, S.
 STRATFORD—Hepburn, Alexander
 Kilburn, J. R.
 STRATHROY—Buffy, L.
 TORONTO—Architectural & Engineering Co.,
 Babington, E. R., 28 Toronto 36 Toronto
 Baker, F. S., Temple bldg
 Bassett, A. C., 36 Toronto
 Bird, Fred J., 82 Louisa
 Bishop, C. H., City Hall
 Bond & Smith, 160 Bay
 Boulton, A., 35 Crescent rd
 Brown, J. Francis, 603 Board of Trade
 Burke & Horwood, 28 Toronto
 Chadwick & Beckett, 18 Toronto
 Coon, S. B., 58 Roxborough W
 Creue, H. S., 275 Jarvis
 Curry, S. George, 90 Yonge
 Darling & Pearson, Mall bldg
 Denison, A. R. & Co., 18 King, W
 Edwards, Robt. J. & Wagner, 18 Toronto
 Ellis, J. A., Manning Chambers
 Finney, P. H., 20 Victoria
 Foulds, L., 43 Victoria
 Gibson, C. J., 75 Yonge
 Gordon & Helliwell, 8 Richmond, E
 Goninlock, G. W., Temple bldg
 Gray, J. Wilson, 12 Richmond E
 Gregg, Wm. R., 96 King, W
 Hall, Mark, 96 King, W
 Harper, G. R., Toronto Arcade
 Harvey, J. A., 147 Yonge
 Herbert, F. H., 9 Toronto
 Holmes, A. W., 10 Bloor, E
 Howland, W. F., 28 Toronto
 Hynes, J. P., 32 Adelaide, E
 Jarvis, Beaumont, 19 Melinda
 Langley & Langley, 46 King
 Lennox, E. J., 164 Bay
 Miller, George M. & Co., 59 Yonge
 Paull, Herbert G., 106 Wellington pl
 Pentecost, A., 13 Bloor, E
 Price, G. F. W., 918 Palmerstone av
 Rattray, A. J., Jr., 18 Toronto
 Richards, D., 77 Victoria
 Roberts, David, 18 Union blk
 Sanderson, R. H., 1278 College
 Sheard, Matthew, 423½ Yonge
 Siddall, John W., 75 Yonge
 Smith, Eden, Canada Life bldg
 Smith & Gemmel, 25 King
 Sproatt & Rolph, Canadian Bk. Com. bldg
 Stanford, J. H., 124 Victoria
 Strickland, W. R., 43 Victoria
 Symons & Rae, 15 Toronto
 Townsend, S. H., 15 Gerrard, E.
 Walton, Chas. A., 66 Denison av
 Wickson & Gregg, 59 Yonge
 Willmot, Mancel, 18 Toronto
 Woodruff-Robins Co., 59 Victoria
 Young, R. M., 17 Toronto
 WELLAND—Cruickshanks, E.
 Nicholls, M.
 Ross, George
 WEST TORONTO JUNCTION—Charlton, R.
 Ellis, Jas. A.
 Wagner, C. J.
 WHITBY—Post, Albert A.
 WINDSOR—McLean, J. G.
 WOODSTOCK—Ure, F. J.

PRINCE EDWARD ISLAND.

CHARLOTTETOWN—Harries, W. C.
 Low, H. & S., Box 273
 LOT 12—England, John

QUEBEC.

HULL—Brodner, Chas.
 Gauthier, L. Z.
 LEVIS—Laroche, A. H.
 LONG POINTE—Lacas, C. E.
 LONGUEUIL—Prefontaine, Alfred
 MAISONNEUVE—Reeves, C. A.
 MONTREAL—Asselin, U. J., 17 Cote Place d'Armes
 Bergeron, Hypolite, Edifice de la Presse
 Bernard, J. H., 353 Sherbrooke, A.
 Benier, Chas., 70 St. Jacques
 Brown, David R., Canada Life bldg
 Burgess, Cecil S., 49 Shter
 Carmichael, J. W., Bell Telephone bldg
 Chausse, Alcide, 1051 St. Hubert
 Chausse, Charles, 103 St. Francis Xavier
 Content, Alph., 17 Cote de la place d'Armes
 Courval, E. P. J., 970 Sauguinnet
 Cox & Amos, Temple bldg
 Daoust, J. E. C., 180 St. Jacques
 Davies, H. W., 80 St. Francis Xavier
 Decary, A. R., N. Y. Life bldg
 Doran, Wm. E., 180 St. James
 Dunfort, C., 502 St. Antonie
 Dunlop, A. F., 185 St. James
 Finley & Spence, Gwardiau bldg
 Gardiner, J. Rawson, 185 St. James
 Ganthier, L. Z., 180 St. James
 Godin, J. A., 1A Place d'Armes
 Hogle, H. W., 80 St. Francis Xavier
 *Helbronner, Michael, 442 Sanguinet
 Hopkins, J. W., 204 St. James
 Hout, J. E., 260 St. Jacques
 Hutchinson, A. C., Royal Ins. bldg
 Hutchinson & Wood, Royal Ins. bldg
 Karch, J. A., 117 Place d'Armes
 Lacas, Edouard, St. Catherine, Beaurivage, Longue Pointe
 Lacroix & Piche, 5 Beaver Hall Sq
 Lafreniere, J. I. D., 319 St. Andre
 Lapierre, Alfred H., Street Ry. Chambers
 Levesque, Adolphe, 12 Place d'Armes Hill
 Macduff & Lemieux, Temple bldg
 MacDonald, R. H., 260 St. James
 MacVicar & Heriot, Temple bldg
 McGregor, J. W., 5 Beaver Hall Sq
 Mann, Eric, 151 St. James
 Marchand & Haskell, 164 St. James
 Maxwell, Ed. & W. S., 6 Beaver Hall Sq
 Mesnard, Albert, 192 St. Hubert
 Mitchell, C. A., 252 St. Chs.-Bouomee
 Monette, G. A., 97 St. James
 Montbriand, L. R., 230 St. Andre
 Nobbs, Prof. P. E., McGill University
 Pepin, E., 55 St. Francis Xavier
 Perrault & Lesage, 17 Place d'Armes Hill
 Perrault, Maurice, 15 St. Lambert
 Poyette, Eugene, 260 St. Jacques
 Resther, J. Z., 107 St. James
 Rodden, Richard Montgomery, Waddell bldg
 Sawyer, Jos., 376 St. Antoine
 Saxe & Archibald, 59 Beaver Hall Hill
 Sigouin, A. M., 180 St. James
 Simard, G. A., 1385 St. Denis
 Smith, James S., 207 St. James
 Spence, D. Jerome, Guardian bldg
 Stone, H. C., 84 St. Francis Xavier
 Taylor & Gordon, 43 St. Francis Xavier
 Trndel, Z., 168 St. Andre
 Turgeon, J. O., 55 St. Francis Xavier
 Vanier, J. Emile, 5 Beaver Hill Sq
 Venne, Alphonse, 15 St. Lambert
 Venne, Jos., 402 Plessis
 Vincent, Arthur, 44 St. Vincent
 Wilkinson, H. N., 37 McGill College av
 Wood, Geo. W., Royal Ins. bldg
 QUEBEC—Baillarge, Chas., 72 St. Louis
 Berlingnet & Lemay, 209 St. Jean
 Bussiere, J. G., 221 St. Jean
 Dionne, J. A. T., 14 St. Joseph
 Hopkins, E. C., 20 d'Alguillon
 Lebon, J. H., 25 des Commissaires
 Levesque, Pierre, 85 d'Aiguillon
 Pinsonnault, J. L., 35 Ste Julie
 Quillet, J. P., 36 Rue de La Fabrique
 Quillet & Livesque, 117 St. Jean
 Raymond, Thos., 45 Rue Carbon
 Stravel, Harry & Edw. B., 92 St. Peter
 Talbot, E. M., 14 St. Joseph
 Tanquay, G. E., 20 1-2 Aiguillon
 Truedelle, T. Alfred, Dept. of Pub. Works
 WESTMOUNT—MacFarlane, D. H.

Architects (Brewery)

Barthel, Bernard, 79 Dearborn, Chicago, Ill.
 Beyer, Oscar A., 2865 N Ashland av, Chicago
 Cincinnati Brewing Engineering & Construction Co., Cincinnati, O.
 Dornfeld, J. F., 134 Van Buren, Chicago, Ill.
 Griesser, Richard, Schiller bldg, Chicago
 Hettinger, Carl F. & Co., 1140 Columbus av, Boston, Mass.
 Knoth, Jno. V., Bessemer bldg, Pittsburg, Pa.
 Koehler, V. Hugo, 11 B'way, New York
 Lehle, Louis, 103 Randolph, Chicago, Ill.
 Oberlein, Lewis, 19 Whitehall, N. Y.
 Rautert, Fred & Son, Metropolitan bldg, Chicago, Ill.
 Stanley, Frank, 711 Av E, Brooklyn, N. Y.
 Widmann, Walsh & Boisselier, Wainwright bldg, St. Louis, Mo.
 Wolf, Otto C., 1025 Arch, Phila., Pa.
 Wunder, Fred'k & Son, 957 B'way, Brooklyn, N. Y.

Architects (Decorative)

Brandt & Mooney, 169 E 85th, New York
 Crowninshield, Fred., 42 W 18th, N. Y.
 Deforest, Lockwood D., 7 E 10th, N. Y.
 Glaeuzer, Geo. A. & Co., 33 E 20th, N. Y.
 Hiss, Philip, 111 5th av, New York
 Hubbell, C. E. Co., 4 E 42d, New York
 Kissam, Henry Snyder, 156 5th av, New York
 Korber, Albert, 21 De Kalb av, Brooklyn, N. Y.
 Lamb, J. & R. (Inc.), 59 Carmine, N. Y.
 Lawrence, Stephen B., 291 5th av, N. Y.
 Lempert, Leon H. & Son, 31 Pearl, Rochester, N. Y.
 Parker, H. Hanley, 1803 N Park av, Phila., Pa.
 Parkhurst Bros., 156 5th av, N. Y.
 Poole, Thomas H., 13 W 30th, N. Y.
 Righter & Kolb, 156 5th av, N. Y.
 Taft & Belknap Co., 1 E 40th, N. Y.
 Tillinghast, Mary E., 3 Wash'n sq, N. Y.

Architects (Horticultural)

Dobbins Bros., 8341 Gtn av, Philadelphia, Pa.
 Hitchings & Co., 1170 B'way, New York
 Lord & Burnham Co., 1133 B'way, New York, & 819 Tremont bldg, Boston, Mass.
 Pierson U Bar Co., 1 Madison av, New York
 Thomson, Kennedy & Co., 6212 Prescott, St. Louis, Mo.
 Vau Assche, Frank, 150 Fulton av, Jersey City, N. J.
 Weathered Co., Orient & West End avs, Jersey City, N. J.

Architects (Landscape)

Adams, Edw. P., 53 State, Boston, Mass.
 Adams, Henry S., Ames bldg, Boston, Mass.
 Armstrong, E. Maitland, 1133 B'way, New York
 Barry, Jno. M., 552 Tremont, Boston, Mass.
 Bochman, E., Westinghouse bldg, Pittsburg, Pa.
 Borst, Theo. F., Tremont bldg, Boston, Mass.
 Bowditch, Ernest W., 60 Devonshire, Boston, Mass.
 Bowditen, Jas. H., Tremont bldg, Boston, Mass.
 Breed, Edw. W., 340 Main, Worcester, Mass.
 Brett & Hall, 31 Beacon, Boston, Mass.
 Brinley & Holbrook, 156 5th av, N. Y.
 Buckenham & Miller, 346 B'way, New York
 Bullard, Miss Elizabeth, 472 Park pl, Elizabeth, N. J.
 Burley, Jas. L., 29 B'way, N. Y.
 Burr, Henry E., Orange, N. J.
 Caparn, Harold A., 156 5th av, N. Y.
 Carpenter, A. N., Galesburg, Ill.
 Child, Stephen, 2a Park, Boston, Mass.
 Coe, Ernest F., 103 Alden av, New Haven, Conn.
 Colton, Reuben, 915 Boylston, Boston, Mass.
 Coolidge, David H., Jr., Tremont bldg, Boston, Mass.
 Culyer, John Y., 116 Nassau, New York
 Curtis, J. H., 85 Devonshire, Boston, Mass.
 Ehrenberg, Fredk., 50 E 125th, New York
 Frosch, Berthold, 413 4th av, Pittsburg, Pa.
 Gallagher, Percival, 2a Park, Boston, Mass.
 Greenleaf, Jas. L., 1 B'way, N. Y.
 Hammatt, Edw'd A. W., Hyde Park, Mass.
 Harrison, Walter H., La Mott, Pa.
 Holton, Arthur T., 1133 B'way, New York
 Hunt, W. W. & Co., 24 State, Hartford, Conn.
 Johnson, Jos. Forsyth, 55 Liberty, N. Y.
 Jones, Wm. Roe, Bay Shore, N. Y.
 Keen, Chas. Barton, Bailey bldg, Phila., Pa.
 Kelsey & Guild, 6 Beacon, Boston, Mass.
 Kennard, F. H., 220 Devonshire, Boston, Mass.
 Kessler, Geo. E. & Co., Fidelity bldg, Kansas City, Mo.

Langton, Daniel W., Fuller bldg, N. Y.
 Lay, Chas. Downing, 27 E 22d, New York
 Leavitt, Chas. W., Jr., 15 Cortlandt, N. Y.
 Lowrie, Chas. N., 156 5th av, N. Y.
 Mahoney, Jas. & Co., 551 Boylston, Boston, Mass.
 Manning, Warren H., Tremont bldg, Boston, Mass.
 Marks, E. Edmund, 229 B'way, New York
 Meehan, Thos. & Sons (Inc.), Chew c E Phil Ellena, Gtn, Phila., Pa.
 Merrill, Chas. B. & Co., 53 Bowers, Newtonville, Mass.
 Nell, Fred'k, 501 Park, Dor, Boston, Mass.
 Nutter, F. H., 710 Sykes blk, Minneapolis, Minn.
 Olmstead Bros., 99 Warren, Brookline, Mass.
 Olmstead, Geo. S., 97 Nassau, N. Y.
 Parker & Bateman, Clinton, Mass.
 Parsons, Samuel & Co., 1133 B'way, N. Y.
 Pharo-Gogge, A. Outlook bldg, Columbus, O.
 Phelps, J. Wesson, 26 State, Hartford, Conn.
 Pierson, A. S., Morristown, N. J.
 Platt, Chas. A., 36 E 20th, New York
 Powell, W. Angelo, 615 S 15th, St. Joseph, Mo.
 Pratt, Henry M., 53 State, Boston, Mass.
 Pray & Gallagher, 2a Park, Boston, Mass.
 Punchard & Babson, Tremont bldg, Boston, Mass.

Quimby, Ralph A., 53 State, Boston, Mass.
 Ross, Leonard W., 176 Federal, Boston, Mass.
 Schwagerl, Edw. D., Washington bldg, Tacoma, Wash.
 Seitz, Arthur, 89 Munroe, Boston, Mass.
 Shepard, Chas. H., 302 Euclid av, Syracuse, N. Y.
 Shepard, Jno. H., 302 Euclid av, Syracuse, N. Y.
 Shurtleff, Arthur A., 22 Congress, Boston, Mass.
 Silsbee, Walter E., 44 Central sq, Lynn, Mass.
 Smilie, Edw. S., 394 Central, Newton, Mass.
 Smith, Robt. W., 136 Liberty, New York
 Sonne, Otto, 68 Devonshire, Boston, Mass.
 Strong, Austin, 1133 B'way, New York
 Thomas, Jeffrey P., 615 6th, Watervliet, N. Y.
 Titus, Jno. E., 53 State, Boston, Mass.
 Underwood, Loring, 23 Court, Boston, Mass.
 Vaux, Downing, 68 Bible House, New York
 Von Hoffmann, Ferdinand, 113 B'way, New York

Webster, Wm., 560 North, Rochester, N. Y.
 Weed, Howard E., 9 Jackson boul, Chicago, Ill.
 Withers, Jno. T., 1 Montgomery, Jersey City, N. J.
 Wright, Frank M., 489 5th av, New York
 Wyman, A. Phelps, 17 Vanburen, Chicago, Ill.
 Young, Jos. H., Perry bldg, Phila., Pa.

Architects (Mill)

(See Engineers, Mill.)

Architects (Naval)

Babcock, W. I., 8 Bridge, New York
 Ballin, F. A. & Co., 43½ 2d, Portland, Ore.
 Barney, Morgan, 29 B'way, New York
 Binney, Arthur, 70 Kilby, Boston, Mass.
 Boardman, Edwin A., 20 Central, Boston, Mass.
 Burbank, Ralph N., 20 Central, Boston, Mass.
 Burgess & Packard, 131 State, Boston, Mass.
 Carysmith & Ferris, 90 Wall, New York
 Clark, Montgomery H., 45 B'way, New York
 Crownshield, B. B., 70 Long Wharf, Boston, Mass., & 42 B'way, New York
 de Winton, W. Wilkins, 3 Harrison, San Francisco, Cal.
 Dyer, J. H., 14 Locust, Portland, Me.
 Ferguson, M., 11 B'way, New York
 Fraser, Robert H., Broad Exchange bldg, Boston, Mass.
 Gardner, William, 1 B'way, New York
 Gaskin, Edw., Ellicott sq, Buffalo, N. Y.
 Gielow, Henry J., 50 B'way, New York
 Haddock, R. M., 31 Clinton pl, New Rochelle, N. Y.
 Hall Bros. Marine Railway & Shipbuilding Co., 202 California, San Francisco, Cal.
 Hansen, A., City Island, N. Y.
 Hanson, Bant, Bath, Me.
 Hillmann, Gustav F. C., 470 Green av, Brooklyn, N. Y.
 Hoyt & Clark, 17 Battery pl, New York
 Hyde, John S., Bath, Me.
 Kenway, Balston C., Tacoma, Wash.
 Keough, W. T., 131 State, Boston, Mass.
 Kidd, Jos., Wolvin' bldg, Duluth, Minn.
 Kirby, Frank E., 555 Woodward av, Detroit, Mich.
 McClunie, J. Alex., 177 Asylum, Hartford, Conn.
 MacConnell & Cook, 52 B'way, New York

Martin, Fred W., Waukegan, Ill.
 Masters, Arthur, 16 Bridge
 Matteson & Drake, Bourse bldg, Phila., Pa.
 Melville & Macapline, 615 Walnut, Phila., Pa.
 Mills, Isaac B., 38 Kilby, Boston, Mass.
 Millard, Jno. W., 32 B'way, New York
 Mosher, Chas. D., 1 B'way, New York
 Nock, F. S., East Greenwich, R. I.
 Oldham, Jos. R., Wells Fargo & Co. Ex. bldg
 Paterson, Jas. V., Pier 14 (Old), N. R., New York
 Payne, J. W., Alexandria Bay, N. Y.
 Pratt, Francis E., 45 B'way, New York
 Sadler, Perkins & Field, 59 Pearl, New York
 See, Horace, 1 B'way, New York
 Simpson, R. C., 29 B'way, New York
 Skene, N. L., 15 Exchange, Boston, Mass.
 Small Bros., 112 Water, Boston, Mass.
 Stratton, E. Platt, 66 Beaver, New York
 Swazey, Raymond & Page, 100 Boylston, Boston, Mass., & 17 B'way, New York
 Tams, Lemoine & Crane, 52 Pine, New York
 Webb, J. Beavor, 129 Front, New York
 Wintringham & Wells, 32 B'way, New York
 Wood, W. J., Postal Telegraph bldg, Chicago, Ill.
 Wyckoff Bros. (Inc.), Clinton, Conn.

Architects (Paper & Pulp Mill)

(See also Engineers, Mill.)

Buss, Edward A., 85 Water, Boston, Mass.
 Eaton & Brownell, Smith bldg, Watertown, N. Y.
 Ellsworth & Kilpatrick, 18 Dwight, Holyoke, Mass.
 Du Mazuel, E. G. F., 11 Pine, New York
 Hall & Kimball, 101 Tremont, Boston, Mass.
 Makepeace, C. R. & Co., 429 Butler Ex, Providence, R. I.
 Newhall, Geo. M. Engineering Co. (Ltd.), 136 S 4th, Phila., Pa., & 43 Cedar, New York
 O'Keefe & Orbison Engineering & Consulting Co., Appleton, Wis.
 Pride, C. B., Appleton, Wis.
 Snow & Humphreys, 85 Water, Boston, Mass.
 Tower, D. H. & Son, Dalton, Mass.
 Wallace, Jos. H., 5 Beekman, New York

Architects (Theatre)

Allen, John D. Co., Betz bldg, Phila., Pa.
 Carter, Harry G., Northwestern bldg, Minneapolis, Minn.
 Clafin, Fuller, 1440 B'way, New York
 Kimball, Francis H., 71 B'way, New York
 Lempert, Leon H. & Son, 31 Pearl, Rochester, N. Y.
 Lovell, Sidney, 168 Michigan av, Chicago, Ill.
 McElfatrick, Wm. H., 1402 B'way, New York
 Packard, Frank L., Hayden bldg, Columbus, O.

*Architects' Time, Record & Account Books

SOLTMANN, E. G.

(Also everything for the Architect, Engineer & Draughting Room), 125 E 42d, New York. (See adv. index, end of book)

Architects' & Engineers' Instruments & Supplies

(See also Engineering & Surveying Instruments)
 Abbott, A. H. & Co., 153 Wabash av, Chicago, Ill.

Adams & White, 209 Main, Buffalo, N. Y.
 Aloe, A. S. Co., 513 Olive, St. Louis, Mo.
 Altenecker, Theo. & Sons, 945 Ridge av, Phila., Pa.
 Architects & Engineers' Supply Co., 1010 Walnut, Kansas City, Mo.
 Berger, C. L. & Son, 37 Williams, Rox, Boston, Mass.
 Bonestell, Richardson & Co. (Inc.), 401 Sansome, San Francisco, Cal.
 Brandis, F. E. Sons & Co., 814 Gates av, Brooklyn, N. Y.
 Brown, Treacy & Sperry Co., 5th & Minnesota, St. Paul, Minn.

When writing to firms listed in this book please mention HENDRICKS' COMMERCIAL REGISTER

BUFF & BUFF MFG. CO., Jamaica
Plain, Boston, Mass. (See adv. index, end of book)

Buxton & Skinner Stationery Co., 306 N 4th,
St. Louis, Mo.

California Blue Print Co., 927 Market, San
Francisco, Cal.

Clarke & Courts, Galveston, Tex.

Cole, H. Co., 82 N High, Columbus, Ohio

Crocker, H. S. Co., 217 Bush, San Francisco,
Cal.

DIETZGEN, EUGENE CO., 181 Mon-
roe, Chicago, Ill. (See adv. index & branch offices, end of book)

Economy Drawing Table Co. (Drawing Tables
& Sectional Filing Cases), 1303 Utah,
Toledo, O.

ELLIOTT, B. K. CO., 108 6th, Pitts-
burg, Pa. (See adv. index, end of book)

Erker Bros. Optical Co., 608 Olive, St. Louis,
Mo

Favor, Ruhl & Co., 49 Barclay, New York

Fretwell's, John W. Sons, Savannah, Ga.

Fritz & Goedel Mfg. Co., Grand Rapids, Mich.

Frost & Adams Co., 37 Cornhill, Boston, Mass.

Graham, J. W. & Co., Spokane, Wash.

Gurley, W. & L. E., Troy, N. Y.

Hanna Mfg Co., 380 River, Troy, N. Y.

HARDMUTH, L. & C., 34 E 23d, New
York. (See adv. index, end of book)

Heer, Peter & Co., 90 Ohio, Chicago, Ill.

Indianapolis Blue Print & Supply Co., 142 N
Illinois, Indianapolis, Ind.

Keuffel & Esser Co., 127 Fulton, New York

Knight, F. C. & Co., 400 Locust, Phila., Pa.

KOLESCH & CO., 138 Fulton, N. Y.
(See adv. index, end of book)

Kopp, Geo. L. & Co., 538 Smithfield, Pitts-
burg, Pa

Kuhlo Mfg. Co., 97 E 4th, St. Paul, Minn.

Kurtz, Langbein & Swartz, 606 Wood, Pittsburg,

McCollin, Thos. H. & Co., 54 N 9th, Phila., Pa.

Mahn & Co., 302 Olive, St. Louis, Mo.

Manasee, L. Co., 88 Madison, Chicago, Ill.

Nafis, Louis F., 120 Randolph, Chicago, Ill.

Osborn, A. T. Co., 22 Seneca, Cleveland, O.

Payot, Upham & Co., 204 Pine, San Francisco,
Cal.

Pfister, Herman, 428 Plum, Cincinnati, O.

Post, Fred'k Co., 218 S Clark, Chicago, Ill.

Prince, L. M. & Bro., 108 W 4th, Cincinnati, O.

QUEEN & CO. (Inc.), n. w. c 8th &
Arch, Phila., Pa. (See adv. below.)

Randolph, T. F. Co., 232 E 5th, Cincinnati, O.

RUCKERT, LOUIS, Merchants, La-
clede bldg, St. Louis, Mo. (See adv. index,
end of book)

Ruehle, E. G. Co., 119 Fulton, New York

Sartorius, A. & Co., 45 Murray, New York

Schmidt, Fred A., 516 9th, Washington, D. C.

Schwenke, Kirk & Co., 227 Fulton, New York

Seelig, Roman & Son, 170 Madison, Chicago,
Ill.

SOLTMANN, E. G.

(Also everything for the Architect, En-
gineer & Draughting Room), 125 E 42d, New
York. (See adv. below)

Spaulding Print Paper Co., 44 Federal, Boston,
Mass.

Taws, Henry M., 920 Arch, Philadelphia, Pa.

Technical Supply Co., Scranton, Pa.

Ulmer, J. C. & Co., 224 Champlain, Cleve-
land, O.

United States Blue Print Paper Co., 263 La-
salle, Chicago, Ill.

WEBER, F. & CO., 1125 Chestnut,
Phila., Pa. (See adv. index & branch of-
fices, end of book)

Williams, Brown & Earle, 918 Chestnut, Phila.,
Pa.

WISSLER, A., INSTRUMENT WORKS
501 W Washington av, St. Louis, Mo. (See
adv. index, end of book)

Young & Sons, 43 N 7th, Phila., Pa.

Architectural Brass Work

(See Grilles, Brass & Bronze)

Architectural Faience

Hartford Faience Co., Hartford, Conn.

Grueby Faience Co., E 1st & K, Boston, Mass.

Lage, (Mrs.) Bernhard H., 484 Greenwich, New
York; Factory: Menlo Park, N. J.

N. E. TERRA COTTA CO., Bradford,
Pa. (See adv. index, end of book)

Rockwood Pottery Co., Cincinnati, O.

Architectural Iron

(See Iron, Architectural & Ornamental)

Architectural Photographers

(See Photographers, Architectural)

Architectural Sculptors

See Modelers and Sculptors, Architectural:

Carvers, Stone;

Carvers, Classic Wood.

Architectural Water Colorists & Pen & Ink Artists

Buck, Lawrence, 17 Van Buren, Chicago, Ill.

Campbell, Walter M., 8 Beacon, Boston, Mass.

Deane, E. Eldon, 503 5th av, New York

Gregg, D. A., 8 Beacon, Boston, Mass.

Hawley, Hughson F., 1 Union sq, New York

Hewlett, William A., 26 E 23d, New York

Langereldt, T. O., 19 Dalton, Boston, Mass.

Long, Birch B., Steinway Hall, Chicago, Ill.

Maginnis, Walsh & Sullivan, 100 Boylston, Bos-
ton, Mass.

Paddock, A. N., 54 Waltham av, Sp'g'd, Mass.

Arc Welders (Electric)

ELECTRIC CONTROLLER & SUPPLY
Co., Cleveland, O. (See adv. index &
branch offices, end of book)

Armature Lifts

(See Lifts, Motor, Car Pit)

Armature Re-Winding & Commu- tator Re-Filling

Bender, Geo., 137 Centre, New York

Brown, Jas. & Son Co., 207 Wood, Pittsburg,
Pa.

Chicago Edison Co., 139 Adams, Chicago, Ill.

Cleveland Armature Works, Coe & Hamilton,
Cleveland, O.

Columbia Machine Works & Malleable Iron Co.,
269 Chestnut, Brooklyn, N. Y.

Commercial Supply Co., 104 Wayne, Detroit,
Mich.

Dittrick & Jordan Electric Co., 1821 Lorain,
Cleveland, O.

Doubleday-Hill Electric Co., 919 Liberty av,
Pittsburg, Pa.

Electric Railway Equipment Co., 31st, below
Chestnut, Philadelphia, Pa.

Electric Supply & Mfg. Co., Scranton, Pa.

Electrical Engineering Co., Seattle, Wash.

Electrical Supply Co., Charleston, S. C.

Electro-Dynamic Co., 11 Pine, New York

Elliott Bros. Electric Co., 3864 Hamilton, Cleve-
land, O.

Elliott, S. K., Blackstone bldg, Cleveland, O.

Eureka Tempered Copper Works, North East,
Pa.

Flint, Lomax Electric & Mfg. Co., 1400 Del-
gany, Denver, Colo.

Gregory Electric Co., 58 S Clinton, Chicago, Ill.

Heck, Louis, 35 N. J. R. R. av, Newark, N. J.

Jordan Bros., 74 Beekman, New York

Knoblock-Heideman Mfg. Co., South Bend, Ind.

Martin Electric Company, 90 Vernon, New York

Pittsburg Electrical & Machine Works, 3 Barker
pl, Pittsburg, Pa.

Ridlon, Frank Co., 200 Summer, Boston, Mass.

Rossiter, MacGovern & Co., 90 West, New York

Scranton Electric Construction Co., Scranton,
Pa.

Sipp Electric & Machine Co., Paterson, N. J.

Southern Electric Co., 423 N. Calvert, Balti-
more, Md.

Utica Electrical Mfg. & Supply Co., Utica, N. Y.

Van Dorn-Elliott Electric Co., Cleveland, O.

Armatures

Cleveland Armature Works, Coe & Hamilton,
Cleveland, O.

GENERAL ELECTRIC CO., Schneec-
tady, N. Y., & 44 Broad, New York. (See
adv. index & branch offices, end of book)

Pittsburg Armature Works, Pittsburg, Pa.



E. G. SOLTMANN ESTABLISHED 1880 DRAWING MATERIALS
125 E. 42ND ST. NEXT TO THE GRAND CENTRAL STATION NEW YORK N.Y.

BLUE PRINT and BROWN PRINT PAPERS.

PRICES FOR LARGE PRINTS UP TO 4 1/2 X 12 FEET IN ONE PIECE.

BLACK PRINTS ON PAPER 3c. SQUARE FOOT BLACK OR BLUE PRINTS ON CLOTH 5c. SQUARE FOOT

"SEPPIAN" Brown Print NEGATIVES made from TRACINGS. "SEPPIAN" POSITIVES.

TRACINGS RECEIVED BY EXPRESS IN THE MORNING, CAN BE EXPRESSED ON SAME DAY WITH LARGE QUANTITIES OF PRINTS, BOUND IN SETS, READY FOR THE CONTRACTORS.

DRAWING AND ENGINEERING INSTRUMENTS AND MATERIALS.
THERMOMETERS, BAROMETERS AND PYROMETERS.

ELECTRICAL TESTING INSTRUMENTS.

MICROSCOPES AND CHEMICAL APPARATUS.

QUEEN & CO., Inc.,

N. W. Cor. Eighth and Arch Sts., PHILADELPHIA, PA.

Arresters (Lightning)

American Electric Fuse Co., 116 Nassau, New York
 Anderson, Albert & J. M. Mfg. Co., 287 A, S. B., Boston, Mass.
 Augusta Electric Co., Augusta, Ill.
 Bunnell, J. H. & Co., 20 Park pl, New York
 Central Union Brass Co., 11th & Mullanphy, St. Louis, Mo.
 Chicago Die & Electric Co. (Telephone), 87 W Lake, Chicago, Ill.
 Chicago Fuse Wire & Mfg. Co. (& Fuse Receptacles for Tel. & Wire), Kedzie bldg, Chicago, Ill.
 Commercial Electrical Supply Co., 1007 Market, St. Louis, Mo.
 Cook, Frank B. (Telephone), Chicago, Ill.
 Electric Service Supplies Co., 1024 Filbert, Phila., Pa.
 Farr Telephone & Construction Supply Co. (Telephone), 118 W Jackson boul, Chicago, Ill.
 Foote, Pierson & Co. ("The Angus"), 84 Fulton, New York
 Fort Wayne Electric Works, Fort Wayne, Ind.
 Garton-Daniels Co., Keokuk, Ia.
 Garton, W. R. Co. ("Shaw"), 118 Jackson boul, Chicago, Ill.

GENERAL ELECTRIC CO., Schenectady, N. Y., & 44 Broad, New York. (See adv. index & branch offices, end of book)
 Harvard Electric Co., 60 W Van Buren, Chicago, Ill.
 Holtzer-Cabot Electric Co., Brookline, Mass.
 Keystone Electric Telephone Co., 822 5th av, Pittsburgh, Pa.
 Kokomo Telephone & Electric Mfg. Co., Kokomo, Ind.
 Lord Electric Co. ("Shaw" Non-Arcing), 949 B'way, New York
 McIntire, C. Co., 13 Franklin, Newark, N. J.
 Minnesota Electric Co. ("Chapman," Telephone, etc.), Minneapolis, Minn.
 North Electric Co., 55 St. Clair, Cleveland, O.
 Ohio Brass Co., Mansfield, O.
 Shaw Engineering & Mfg Co., Newark, N. J.
 South Bend Spark Arrester Co., South Bend, Ind.
 Sterling Electric Co., Lafayette, Ind.
 Sumter Telephone Mfg. Co., Sumter, S. C.
 Viaduct Mfg. Co., 10 S Howard, Baltimore, Md.
 Western Electric Co., 259 S Clinton, Chicago, Ill., & 57 Bethune, New York
 Western Telephone Mfg. Co., 42 W Jackson boul, Chicago, Ill.
WESTINGHOUSE ELECTRIC & MFG. Co., Pittsburgh, Pa. (See adv. index & branch offices, end of book)
 Williams-Abbott Electric Co. (Telephone, etc.), Cleveland, O.
 Woolley Electric Co. ("Woolley" Type C. C.), Clayton, Mo.
WRIGHT WIRE CO. (Locomotive), Worcester, Mass. (See adv. index, end of book)

Arresters (Spark)

Barbee Wire & Iron Works, 44 Dearborn, Chicago, Ill., & Lafayette, Ind.
 Brady, T. H. (Electric Lamp), New Britain, Conn.
 Fort Wayne Electric Works (Inc.), Fort Wayne, Ind.
GENERAL ELECTRIC CO., Schenectady, N. Y., & 44 Broad, New York. (See adv. index & branch offices, end of book)
 McLeod, Ward & Co., 27 Thames, New York
 Phila. Electrical & Mfg. Co., 2011 Market, Phila., Pa.
SMITH, F. P. WIRE & IRON WORKS, 100 Lake, Chicago, Ill. (See adv. index, end of book)
 South Bend Spark Arrester Co., South Bend, Ind.
 Western Electric Co., 259 S Clinton, Chicago, Ill., & 57 Bethune, New York

Arresters (Spark, for Traction Engines)

Howell, R. R. & Co., Minneapolis, Minn.
 Port Huron Engine & Thresher Co., Port Huron, Mich.
 South Bend Spark Arrester Co., South Bend, Ind.
 Talbott & Sons, Richmond, Va.
 Westinghouse Co., Schenectady, N. Y.
 Wickes Bros., Saginaw, Mich.
WRIGHT WIRE CO. (Locomotive) Worcester, Mass. (See adv. index & branch offices, end of book)

Arresters (Spark, Locomotive)

Hendrick Mfg. Co., Carbondale, Pa.
WRIGHT WIRE CO., Worcester, Mass. (See adv. index & branch offices, end of book)

*Arsenic (Red & White)

LEAVITT, C. W. & CO., 222 B'way, New York. (See adv. index, end of book)

Art Metal Work

(See Grilles, Brass & Bronze; also Grilles, Wrought Iron.)

Artesian Wells

(See Well Contractors, Artesian & Driven)

Artificial Stone Sidewalks

(See Cement & Concrete Pavements)

Asbestos Building Lumber

Asbestos Shingle, Slate & Sheathing Co., Ambler, Pa.
 Johus, H. W.-Manville Co. ("Transite"), 100 William, New York
 Keasbey & Mattison Co., Ambler, Pa.

Asbestos Cloth

(See Asbestos Textiles)

Asbestos (Corded Fibre)

Alliance Asbestos Mfg. Co., Alliance, O.
 Johns, H. W.-Manville Co., 100 William, New York

Asbestos Corrugated Sheathing (Reinforced)

Asbestos Shingle, Slate & Sheathing Co., Ambler, Pa.
 Keasbey & Mattison Co. (Reinforced with Woven Wire), Ambler, Pa.

Asbestos Coverings

(See Pipe & Boiler Coverings, Asbestos.)

Asbestos (Crude & Fibre)

(See Asbestos Miners.)

Asbestos Felting Mfrs.

Alliance Asbestos Mfg. Co., Alliance, O.
 Carey, Philip Mfg. Co., Lockland, O.
EHRET MAGNESIA MFG. CO., Land Title bldg, Phila., Pa. (See adv. index & branch offices, end of book)
 Franklin Mfg. Co., Franklin, Pa.
 Gilmour, R. M. Mfg. Co., 105 John, N. Y.
 Johus, H. W.-Manville Co., 100 William, New York
 Keasbey & Mattison Co., Ambler, Pa.
KEYSTONE ASBESTOS-MAGNESIA Co., Fulton bldg, Pittsburgh, Pa. (See adv. index, end of book)
 New Jersey Asbestos Co., Camden, N. J.
 New York Asbestos Mfg. Co., 80 John, New York
 Oil City Asbestos Co., Oil City, Pa.
WATSON, H. F. CO., Erie, Pa. (See adv. index, end of book)

Asbestos Fibres

(See Asbestos Felting)

Asbestos Fire Felt

Johns, H. W.-Manville Co., 100 William, New York

Asbestos Gloves & Mitts

Johns, H. W.-Manville Co., 100 William, New York

Asbestos Household Articles

Johus, H. W.-Manville Co., 100 William, New York
WATSON, H. F. CO., Erie, Pa. (See adv. index, end of book)

Asbestos Material

Alliance Asbestos Mfg. Co., Alliance, O.
 Asbestos Felting Works, 79 Maiden la, New York
 Carey, Philip Mfg. Co., Lockland, O.
CARPENTER, GEO. B. & CO., 202 S Water, Chicago, Ill. (See adv. index, end of book)
 Chicago Fire Proof Covering Co., 18 N Canal, Chicago, Ill.
EHRET MAGNESIA MFG. CO., Land Title bldg, Phila., Pa. (See adv. index & branch offices, end of book)
 Franklin Mfg. Co., Franklin, Pa.
 Gilmour, R. M. Mfg. Co., 105 John, N. Y.
 Johns, H. W.-Manville Co., 100 William, New York
 Keasbey & Mattison Co., Ambler, Pa.
KEYSTONE ASBESTOS-MAGNESIA Co., Fulton bldg, Pittsburgh, Pa. (See adv. index, end of book)
 New Jersey Asbestos Co., Camden, N. J.
 New York Asbestos Mfg. Co., 80 John, New York
 Nott, W. S. Co., 200 1st av S, Minneapolis, Minn.
 Oil City Asbestos Co., Oil City, Pa.
 Piedmont Asbestos Co., Prudential bldg, Buffalo, N. Y.
 Sall Mountain Asbestos Mfg. Co., 68 S Canal, Chicago, Ill.
 Star Asbestos Mfg. Co., North Wales, Pa.
 Trainer, C. W. Mfg. Co., 89 Pearl, Boston, Mass.
WATSON, H. F. CO., Erie, Pa. (See adv. index, end of book)

Asbestos Metallic Cloth

Alliance Asbestos Mfg. Co., Alliance, O.
 Johus, H. W.-Manville Co., 100 William, New York
 Keasbey & Mattison Co., Ambler, Pa.

Asbestos Miners

International Asbestos Co., 309 B'way, New York
 Johns, H. W.-Manville Co., 100 William, New York
 Keasbey & Mattison Co., Ambler, Pa.
 Maryland Asbestos Magnesia Mfg. Co., Baltimore, Md.
 Martin, R. H., 220 B'way, New York
 Sall Mountain Asbestos Mfg. Co. (Fibre), 68 S Canal, Chicago, Ill.

Asbestos Paper & Mill Board Mfrs.

American Asbestos Co., Terre Haute, Ind.
 Alliance Asbestos Mfg. Co., Alliance, O.
 Carey, Philip Mfg. Co., Lockland, O.
EHRET MAGNESIA MFG. CO., Land Title bldg, Phila., Pa. (See adv. index & branch offices, end of book)
 Franklin Mfg. Co., Franklin, Pa.
 Gilmour, R. M. Mfg. Co., 105 John, New York
 Johns, H. W.-Manville Co., 100 William, New York
 Keasbey & Mattison Co., Ambler, Pa.
KEYSTONE ASBESTOS-MAGNESIA Co., Fulton bldg, Pittsburgh, Pa. (See adv. index, end of book)
 New York Asbestos Mfg. Co., 80 John, New York
 Oil City Asbestos Co., Oil City, Pa.
 Star Asbestos Mfg. Co., North Wales, Pa.
WATSON, H. F. CO., Erie, Pa. (See adv. index, end of book)

Asbestos Papier Mache Mfrs.

Bronze & Papier Mache Co., 431 W B'way, New York

Asbestos Protected Metal

Asbestos Protected Metal Co. (for Roofing, Ceilings & Sidings, etc.), Canton, Mass.

Asbestos, Pulp, Miners & Mfrs.

Johns, H. W.-Manville Co., 100 William, New York
 Massena Mineral Filter Co., Massena, N. Y.

MICHAEL EHRET, PRES.

ALVIN M. EHRET, VICE-PRES. AND TREAS.

EHRET MAGNESIA MANUFACTURING COMPANY

MAIN OFFICE,
LAND TITLE BLDG.,
PHILADELPHIA

NEW YORK OFFICE AND WAREHOUSE
73 MAIDEN LANE

NEW ENGLAND OFFICE,
14 BINFORD ST.,
BOSTON

MANUFACTURERS, DISTRIBUTORS, CONTRACTORS FOR

**Ehret's 85% Magnesia and Asbestos Steam Pipe
and Boiler Coverings
Asbestos Products of every Description**

BRANCH HOUSES AND AGENCIES:

BOSTON
ST. LOUIS

PHILADELPHIA
NEW ORLEANS

NEW YORK
KANSAS CITY

PITTSBURGH
DENVER

CHICAGO
SAN FRANCISCO

INDRUROID ROOFINGS.

“Imperial Brand” Prepared Roofings.

Coated Roofings. Asphalt Roofings. Asbestos Roofings.

Gravel Surfaced Roofings. Roofing Paints, Cement, Etc.

BUILDING AND SHEATHING PAPERS

ROPE INSULATING PAPERS for Refrigerators and Cold Storage.

WOOL DEADENING FELTS, . . .

WATERPROOF PAPERS.

Asbestos BUILDING FELTS.

STEAM PACKING.

STEAM PIPE & BOILER COVERINGS.

CEMENTS AND SPECIALTIES.

Send for Samples and Prices.

Mention this Book when Writing Us.

H. F. WATSON CO., ERIE, PA.

BOSTON.

NEW YORK.

CHICAGO.

Hendricks'



Commercial Register..

Is consulted by more than 100,000 Buyers annually.

If you want to reach a Buyer advertise in this Book.

No Book more frequently consulted regarding the purchasing of materials, machinery or supplies.

Used by the Purchasing Department of every large concern in the United States.



EACH succeeding Edition of HENDRICKS' COMMERCIAL REGISTER is an improvement on the previous one.

This book is used for purchasing purposes and for quick reference by nearly all the leading Architects, Engineers, Contractors, Purchasing Agents, Railroads, Machinists and Founders, Rolling Mills and Steel Manufacturers, Textile Mills, Lumber Manufacturers, Supply Houses in all lines, Exporters, Large Corporations and Firms in all lines, also by the National Government as well as by State and Municipal Governments in all parts of the country. It contains also many Valuable Mailing Lists, Etc.

REVISED AND PUBLISHED ANNUALLY.

Asbestos Rope, Cord & Twine

(See Asbestos Textiles)

Asbestos Textiles

Alliance Asbestos Mfg. Co., Alliance, O.
 Johns, H. W.-Manville Co., 100 William, New York

Keasbey & Mattison Co., Ambler, Pa.
WATSON, H. F. CO., Erie, Pa. (See adv. index, end of book)

Asbestos Yarns

(See Asbestos Textiles)

Ash Chutes (Steel Plate)

Edwards, T. & Co., Holyoke, Mass.
 Lewis, Henry B., 45 Jos. Campau av, Detroit, Mich.
 Lyon Metallic Mfg. Co., Aurora, Ill.

Ash Handling Plants

(See Conveyors, Coal & Ash Handling; also Coal & Ore Handling Machinery)

Asphalt Crushers & Pulverizers

Coldwell-Wilcox Co., Newburgh, N. Y.

Asphalt Damp Course

(See Damp Course.)

Asphalt Dealers

Armitage Mfg. Co., Richmond, Va.
 Armstrong, M. K., 95 S Clark, Chicago, Ill.
 Barber Asphalt Paving Co., Land Title bldg, Phila., Pa.

Barrett Mfg. Co., Land Title bldg, Phila., Pa.
 Boorman, T. Hugh, 32 B'way, New York
 Dunderberg Asphalt Co., 6 Fletcher, New York
 Gabriel & Schall, 205 Pearl, New York
 Lamson, Jno. S. & Bro, 77 Maiden la, New York
 Neuchatel Asphalt Co. (Ltd.), 265 B'way, New York

Saacke, Chas. W., 76 William, New York
SCHILLINGER BROS. CO., 215 City Park av, Toledo, O. (See adv. index, end of book)

Sicilian Asphalt Paving Co., 41 Park Row, New York

Trinidad Asphalt Co., 320 S 21st, St. Louis, Mo.
 Uvalde Asphalt Co., 1 B'way, New York, & Cline, Tex.

Warren Bros. Co., 93 Federal, Boston, Mass.

Asphalt Floors & Cellars

(See Contractors, Asphalt Paving.)

Asphalt Heating Tanks

(See Heaters, Asphalt.)

Asphalt (Liquid & Solid)

American Asphaltum & Rubber Co., Women's Temple, Chicago, Ill.
 Densmore-Stabler Refining Co., Los Angeles, Cal.

Dunderberg Asphalt Co., 6 Fletcher, New York
 Globe Asphalt Co. ("Obispo" brand), Bakewell bldg, Pittsburg, Pa.

Hercules Oil Refining Co., Los Angeles, Cal.
 Indian Refining Co., Georgetown, Ky.

Jewett-Blodgett Oil Co., Bakersfield, Cal.
 Southern Refining Co., Los Angeles, Cal.

Trinidad Asphalt Mfg. Co., 320 S 21st, St. Louis, Mo.

Union Oil Co. of Cal. (The Diamond Brand), Mills bldg, San Francisco, Cal.

Asphalt Machinery

(See Machinery, Asphalt.)

Asphalt Mastic

Blome, R. S. Co., Unity bldg, Chicago, Ill.
 Capitol Asphalt Mastic Co., 310 Dublin av, Columbus, O.
 Gabriel & Schall (German Brunswick), 205 Pearl, New York
 Neuchatel Asphalt Co., 265 B'way, New York
 New York Mastic Works (Seyssel Asphalt), 11 B'way, New York
 Shields, W. S. P. Co., Witherspoon bldg, Phila., Pa.

Asphalt Miners & Refiners

American Asphalt Co., Oklahoma, Okla. Ter.

American Asphaltum & Rubber Co., Women's Temple, Chicago, Ill.

Barber Asphalt Paving Co., Land Title bldg, Phila., Pa.

Barber, A. L. Asphalt Co. (Natural Asphalt), 90 West, New York

Barrett Mfg. Co., Land Title bldg, Phila., Pa.
 British California Oil Co., Los Angeles, Cal.

California Asphaltum Sales Agency ("Maltha"), Mills bldg, San Francisco, Cal.

California-Fresno Oil Co., Fresno, Cal.
 California Liquid Asphalt Co., Santa Barbara, Cal.

Densmore-Stabler Refining Co., Los Angeles, Cal.
 Downard Asphalt Co., Lima, O., & Ardmore, Ind. Ter.

Dunderberg Asphalt Co., 6 Fletcher, New York
 Empire Asphalt Co. (Refiners), Prudential bldg, Newark, N. J., & Arrott bldg, Pittsburg, Pa.

Gilson Asphaltum Co., Holland bldg, St. Louis, Mo.

Globe Asphalt Co. ("Obispo" brand), Bakewell bldg, Pittsburg, Pa., & Los Angeles, Cal.

Gulf Refining Co. (Texas Asphalt), Frick bldg, Pittsburg, Pa.; Refinery, Port Arthur, Tex.

Hercules Oil Refining Co., Los Angeles, Cal.
 Indian Refining Co., Georgetown, Ky.

Jewett-Blodgett Oil Co., Bakersfield, Cal.
 King Refinery, Bakersfield, Cal.

National Oil Refining & Mfg. Co., Bakersfield, Cal.
 Pacific Refining Co., Bakersfield, Cal.

Producer's Refinery, Bakersfield, Cal.
 Sicilian Asphalt Paving Co., 41 Park row, New York

Southern Refining Co., Los Angeles, Cal.
 Standard Asphalt Co., Los Angeles, Cal.

Trinidad Asphalt Mfg. Co. (Refiners), 320 S 21st, St. Louis, Mo.

Union Consolidated Refining Co., Los Angeles, Cal.

Union Oil Co. (of California), Mills bldg, San Francisco, Cal.

Uvalde Asphalt Co., 1 B'way, N. Y.
 Warner-Quinlan Asphalt Co., Syracuse, N. Y., & 42 B'way, New York

West Indies Co., 15 Murray, New York

Asphalt Mixers

(See also Concrete & Mortar Mixers)

Coldwell-Wilcox Co., Newburgh, N. Y.
 Contractors' Tool Co., 704 Arch, Phila., Pa.

Drake Standard Machine Works, 298 W Jackson boul, Chicago, Ill.

Erie Machine Shops, Erie, Pa.
 Hetherington & Berner Co., 19 W South, Indianapolis, Ind.

Iroquois Iron Works, Buffalo, N. Y.
 Pioneer Iron Works, 149 Pioneer, Brooklyn, N. Y.

SCHOLL, JULIAN & CO., 126 Liberty, New York. (See adv. index & branch offices, end of book)

Asphalt Paving Blocks & Tile

(See Paving Blocks, Asphalt.)

Asphalt Paving Protecting Strip

AMERICAN BRAKE SHOE & FOUNDRY Co. ("Marginal"), 170 B'way, New York. Works & Sales Office, Chicago Heights, Ill. (See adv. index & branch offices, end of book)

Asphalt Paving Tools

(See Tools, Asphalt Paving.)

Asphalt Pipe Dip

American Asphaltum & Rubber Co., Woman's Temple, Chicago, Ill.

Barber Asphalt Paving Co., Land Title bldg, Phila., Pa.

Densmore-Stabler Refining Co., Los Angeles, Cal.

Dunderberg Asphalt Co., 6 Fletcher, New York
 Globe Asphalt Co., Pittsburg, Pa.

Hercules Oil Refining Co., Los Angeles, Cal.
 Indian Refining Co., Georgetown, Ky.

Jewett-Blodgett Oil Co., Bakersfield, Cal.
 Southern Refining Co., Los Angeles, Cal.

Union Oil Co. of Cal., Mills bldg, San Francisco, Cal.

Asphalt Pitch

(See Pitch, Asphalt)

Asphalt Plant Builders

Cummer, F. D. & Sons Co. (Stationary), "The Arcade," Cleveland, O.

Hetherington & Berner Co., 19 W South, Indianapolis, Ind.

Iroquois Iron Works (Portable & Railway), Buffalo, N. Y.

SCHOLL, JULIAN & CO. (Portable & Stationary), 126 Liberty, New York. (See adv. index & branch offices, end of book)

Asphalt Rollers (Steam)

(See Road Rollers, Steam.)

Asphalt Separators

Coldwell-Wilcox Co., Newburgh, N. Y.

Asphaltum Mfrs. & Importers

Boorman, T. Hugh, 32 B'way, New York
 Byrnes, J. W. & Co., Galveston, Texas

Dunderberg Asphalt Co., 6 Fletcher, New York
 Gilson Asphaltum Co., Holland bldg, St. Louis, Mo.

Gulf Refining Co. (Oil for Fluxing), Frick bldg, Pittsburg, Pa.; Refinery, Port Arthur, Tex.

Indian Refining Co., Georgetown, Ky.
 National Oil Refining & Mfg. Co., Bakersfield, Cal.

New York Mastic Works, 11 B'way, New York, & Long Island City, N. Y.

Saacke, Charles W., 76 William, New York
SCHILLINGER BROS. CO., 215 City Park av, Toledo, O. (See adv. index, end of book)

Sicilian Asphalt Paving Co., 41 Park row, New York

***Assay Muffles**

MAURER, HENRY & SON, 420 E 23d, New York; Penna bldg, Phila., Pa. Works: Maurer, N. J. (See adv. inside front cover)

Assayers' Supplies

(See Chemical Apparatus)

Atomizers (Billow)

National Supply Co. (For Fuel Oil Vaporation), 315 Dearborn, Chicago, Ill.

Attachments (Milling Machine)

Brown & Sharpe Mfg. Co., Providence, R. I.
OWEN MACHINE TOOL CO. (Vertical Spindle, Rack Cutting, Circular Hand Feed, Circular Power Feed), Springfield, O. (See adv. index, end of book)

Quincy-Manchester-Sargent Co., Old Colony bldg, Chicago, Ill., & 114 Liberty, New York

Attemperators

Jochum, Andrew, 148 E 50th, New York
 Wolf, Fred W. Co., 141 Rees, Chicago, Ill.

Auger & Gimlet Mfrs.

American Auger Bit Co., Forestville, Pa.
 Beaver Falls Mfg. & Fuel Co., Beaver Falls, Pa.

Conrad, A. & J., Fort Washington, Pa.
 Deuse, J. S., Chester, Conn.

Drew, C. & Co., (Augers), Kingston, Mass.
 Ford Auger Bit Co. (Augers & Bits), Holyoke, Mass.

Garratt & Beach, Seymour, Conn.
 Hamden Mfg. Co., Hamden, Conn.

Humphreysville Mfg. Co., Seymour, Conn.
 Irwin Auger Bit Co. (Augers only), Wilmington, Ohio

Ives, W. A. Mfg. Co. (Augers Only), 299 B'way, New York

Jennings, C. E. & Co., 42 Murray, N. Y.
 Mack & Co. (Solid Cast Steel), Rochester, N. Y.

Mayhew, H. H. Co. (Gimlets only), Shelburne Falls, Mass.

Ohio Tool Co. (Augers only), Columbus, O.
 Rockford Bit Co. (Augers), Kokomo, Ind.

Slack, Timothy, Oxford, Pa.
 Snell Mfg. Co., Fiskdale, Mass.

Swan, James Co., Seymour, Conn.

Augers (Boring Machine)

American Woodworking Machine Co., 136 Liberty, New York
 Buckeye Mfg. Co., Anderson, Ind.
 Chester Mfg. Co., Chester, Conn.
 Hardisty & Co., Harris & Penna R. R., Cincinnati, O.
 Hubbard & Co., Murtland bldg, Pittsburg, Pa.
 Irwin Auger Bit Co., Wilmington, Ohio
 Ives, W. A. Mfg. Co., 299 B'way, New York
 Jennings, C. E. & Co., 42 Murray, New York
 Jennings-Russell Mfg. Co., Chester, Conn.
 Mack & Co., Rochester, N. Y.
 New Haven Copper Co., Seymour, Conn., & 114 Chambers, New York
 Ohio Tool Co., Columbus, Ohio
 Slack, Timothy, Oxford, Pa.
 Snell Mfg. Co., Fiskdale, Mass.
 Swan, Jas. Co. ("Cook's," etc.), Seymour, Conn.

Augers (Bung)

(See Borers, Bung Hole)

Augers (Carpenters')

(See Auger & Gimlet Mfrs.)

Augers (Earth)

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)
ANDERSON FORGE & MACHINE CO., 271 Guoin, Detroit, Mich. (See adv. index, end of book)
 Austin Mfg. Co., Manhattan bldg, Chicago, & Harvey, Ill.
 Chickasaw Iron Works, Memphis, Tenn.
 Cook Well Co., 15 S 4th, St. Louis, Mo.
 Easey Auger Co. ("Bowman's"), College Corner, O.
 Eureka Fence Mfg. Co. ("The S. & B."), Richmond, Ind.
 Gills, Jno. D. Sons (Mine), Phillipshurg, Pa.
 Howell, R. R. & Co., 30th av & S E 5th, Minneapolis, Minn.
 Morrison Mfg. Co., Fort Madison, Iowa
RUMSEY & CO. (Ltd.) (Improved) Clay, Earth & Sand, Seneca Falls, N. Y. (See adv. index & branch offices, end of book)
 Star Drilling Machine Co., Akron, Ohio
 Williams Bros., Ithaca, N. Y.

Augers (Flexible Pipe Cleaning)

Lewis, Samuel, 126 Pearl, New York

Augers (Hollow)

Bonney Vise & Tool Works, 3015 Chestnut, Phila., Pa.
 Cincinnati Tool Co., Norwood, Cincinnati, O.
 Ives, W. A. Mfg. Co., 299 B'way, New York
 Millers Falls Co., Millers Falls, Mass., & 28 Warren, N. Y.
 Silver Mfg. Co., ("Star") Salem, O.
 Stearns, E. O. & Co., 100 Oneida, Syracuse, N. Y.
 Swan, Jas. Co. ("Ames," "Universal"), Seymour, Conn.
 Wood, A. A. & Sons Co. ("Universal"), Atlanta, Ga.

Augers (Millwrights')

Jennings-Russell Mfg. Co., Deep River, Conn.
 Swan, Jas. Co. ("Cook's," etc.), Seymour, Conn.

Augers (Miners')

Hubbard & Co. (Breast), Pittsburg, Pa.
 Pittsburg Tool & Drop Forge Co. ("Cheswick" Coal), Works, Cheswick, Pa.
 Snell Mfg. Co., Fiskdale, Mass.

Augers (Post-Hole)

Briggs, J. E. Lahor Saving Specialty Co. (Lightning), Waterloo, Iowa
 Buckeye Mfg. Co., Anderson, Ind.
 Dicke Tool Co., Downers Grove, Ill.
 Driskill Post Hole Auger Co., Paducah, Ky.
 Iwan Bros., Streator, Ill.
 Jackson Shovel & Tool Co. ("Hartford") Montpelier, Ind., & Market & Randolph, Chicago, Ill.
 Klein, Mathias & Son, 87 W Van Buren, Chicago, Ill.
 Lehr Agricultural Co., Fremont, Ohio

Monarch Mfg. Co., Des Moines, Iowa
 Pratt, Wm. E. Mfg. Co., 91 Lake, Chicago, Ill.
 Racine Malleable & Wrought Iron Co., Racine, Wis.
 Tucker & Dorsey Mfg. Co. ("Dalhey"), State av c Bates, Indianapolis, Ind.
 Vaughn & Bushnell Mfg. Co. ("V. & B."), 875 W Carroll av, Chicago, Ill.

Augers (Rafting)

Irwin Auger Bit Co., Wilmington, Ohio
 Ives, W. A. Mfg. Co., 299 B'way, New York
 Swan, Jas. Co., Seymour, Conn.

Augers (Ring)

Irwin Auger Bit Co., Wilmington, Ohio
 Ives, W. A. Mfg. Co., 299 B'way, New York
 Swan, Jas. Co. ("Cook's," etc.), Seymour, Conn.

Augers (Ship)

Ford Auger Bit Co., Holyoke, Mass.
 Greenlee Bros. & Co., Railway Exchange bldg, Chicago, Ill.
 Irwin Auger Bit Co., Wilmington, Ohio
 Jennings, C. E. & Co. (The "L'Hommedieu"), 42 Murray, New York
 Ohio Tool Co., Columbus, O.
 Rockford Bit Co., Kokomo, Ind.
 Snell Mfg. Co., Fiskdale, Mass.

Augers (Telegraph)

Vaughn & Bushnell Mfg. Co. ("V. & B."), 875 W Carroll av, Chicago, Ill.

Augers (Well)

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)
 Austin Mfg. Co., Manhattan bldg, Chicago & Harvey, Ill.
 Iwan Bros., Streator, Ill.
 Mark Mfg. Co., Evanston, Ill.
 Pech, Gustave, Foundry & Machine Co., Le Mars, Iowa
 Southern Engine & Boiler Works (Inc.), Jackson, Tenn.
 Star Drilling Machine Co., Akron, Ohio

*Automatic Organ Builders

(See Organ Builders, Automatic)

*Automatic Railways

RUSSEL WHEEL & FOUNDRY CO., Detroit, Mich. (See adv. index, end of book)

Automatic Weighing Machines

(See Machinery)

Automobile Boats

(See Motor Boat, Launch & Yacht Builders)

Automobile Builders

Star (*) indicates firms who manufacture Steam Automobiles.
 Dagger (†) indicates those who make Electric Automobiles.
 Star & Dagger (*†) indicates those who make more than one kind. The kinds made by the latter are indicated in the parentheses following their names.
 All others make Gasoline Automobiles.
 (Sole Agents for foreign makes are included under this heading.)

Acme Motor Car Co. ("Acme") Touring Cars, Runabouts, etc.), Reading, Pa.
ABENDROTH & ROOT MFG. CO. (Gasoline), Newburgh, N. Y. (See adv. index & branch offices, end of book)
 Adams Automobile Co. (Runabouts), Hiawatha, Kan.
 Adams Co. ("Adams-Farwell" Touring Cars), Duquque, Iowa
 Aero Car Co. (Touring Cars), Detroit, Mich.
 *American Coulthard Co. (Trucks), Oliver bldg, Boston, Mass.
 American Darracq Automobile Co. ("Darracq"), 652 Hudson, New York
 American-La France Fire Engine Co. (For Fire Department Service), Elmira, N. Y.

American Locomotive Automobile Co., 111 B'way, New York
 American Machine Mfg. Co. (Auto Commerce Trucks, Detroit, Mich.
 †American Metal Wheel & Auto Co. ("Juvenile" Child's Car), Toledo, O.
 American Motor Car Co. ("American" Tourist & Roadster), Indianapolis, Ind.
 American Motor Truck Co. (Commercial Truck Cars), Lockport, N. Y.
 Anderson Machine Co., Bedford, Ind.
 Apperson Bros. Automobile Co. ("Apperson" Touring Cars, etc.), Kokomo, Ind.
 Archer & Co., 1597 B'way, New York
 Ardsley Motor Car Co. ("Ardsley"), Yonkers, N. Y.
 Ariel Automobile Co., 68 Stanhope, Boston, Mass.
 Auhurn Automobile Co., Auhurn, Ind.
 Aurora Motor Works (Runabouts), Aurora, Ill.
 Austin Automobile Co. (Touring Cars, etc.), Grand Rapids, Mich.
 *†Auto-Car Equipment Co. (Electric & Gasoline Touring Cars, Broughams, Limousines, Delivery Wagons, etc.), Buffalo, N. Y.
 Autocar Co. (Touring Cars), Ardmore, Pa.
 Auto Import Co. (Agts for "Rochet Schneider," "Vinot," etc.), 1786 B'way, New York
 Ayres Gasoline Engine & Automobile Works, Saginaw, Mich.
 †Bahcock Electric Carriage Co. (Electric Carriages), Buffalo, N. Y.
 †Baker Motor Vehicle Co. ("Baker Kid," "Torpedo" Racing Cars, Runabouts, Depot Carriages, etc.), 116 Jessie, Cleveland, O.
 Banker, A. C. Co. ("Banker" Touring Cars), Chicago, Ill.
 Barber Asphalt Co. (Commercial Vehicles), Land Title bldg, Phila., Pa.
 Barnes Mfg. Co. ("Servitor" Air Cooled), Sandusky, O.
 Bartholomew Co. ("Glide" Touring Cars, Delivery Wagons, etc.), Peoria, Ill.
 Bay State Auto Co. (Bay State Forty"), 112 Norway, Boston, Mass.
 Bellefontaine Automobile Co., Bellefontaine, O.
 Berkshire Automobile Co., Pittsfield, Mass.
 Biddle-Murray Motor Truck Co. (Commercial Trucking Cars), Oak Park, Ill.
 B. L. M. Motor Car Co. ("Pirate"), 25 W 42d, New York. Factory: Brooklyn, N. Y.
 Blood Bros. Auto & Machine Co., Kalamazoo, Mich.
 *Boss Knitting Machine Works ("Boss"), Reading, Pa.
 Bradford Motor Works ("Holley" Light Touring Car), Bradford, Pa.
 Brazier Automobile Works, 1811 Fitzwater, Phila., Pa.
 Brush Runabout Co., West Detroit, Mich.
 Buckeye Mfg. Co. (Touring Cars, Trucks, etc.), Anderson, Ind.
 Buffalo Electric Carriage Co., 240 W Utica, Buffalo, N. Y.
 Buffum, H. H. Co., Ahington, Mass.
 Buick Motor Co., Jackson, Mich.
 Burr Mfg. Co. (Gasoline), Kalamazoo, Mich.
 Cadillac Motor Car Co. ("Cadillac" Runabouts, Touring Cars, Delivery Wagons, etc.), Detroit, Mich.
 Caille Bros. ("Du Bric Caille" Touring Cars), Detroit, Mich.
 Cameron Car Co. ("Cameron" Light Touring), Brockton, Mass.
 †Cantono Electric Tractor Co. ("Cantono" Broughams), 111 W 37th, New York
 Cascaden-Vaughn Co. ("Waterloo" Phaetons, etc.), Waterloo, Ia.
 *Centuar Motor Vehicle Co., 59 Franklin, Buffalo, N. Y.
 Central Auto Co. (rep. "Napier," England), 4 W 38th, New York
 Chalfont Motor Car Co. (Touring), Lenover, Pa.
 †Champion Commercial Motor Vehicle Co. ("Champion" Com. Vehicles), Owego, N. Y.
 Chase Motor Truck Co. (Commercial Truck), Syracuse, N. Y.
 Chicago Automobile Mfg. Co. ("Chicago" Touring Cars), 4230 State, Chicago, Ill.
 Chicago Coach & Carriage Co. ("Duer" Runabout), 1223 Michigan av, Chicago, Ill.
 Chicago Commercial Auto Mfg. Co. (Gasoline, Heavy Trucks, etc.), Harvey, Ill.
 *Clark, Edw. S. (Carriages, Delivery Wagons, etc.), 272 Freeport, Dor, Boston, Mass.
 Clemick-Hirsch Co., 592 National av, Milwaukee, Wis.
 Cleveland Motor Car Co. (Touring Cars), 388 Erie, Cleveland, O.
 Columbia Electric Co., Indianapolis, Ind.
 *Columbia Engineering Works ("Herschman Commercial Cars"), Brooklyn, N. Y.
 †Columbus Buggy Co., Columbus, O.

Commercial Motor Car Co. (Gasoline Trucks),
4 E 42d, New York
Commercial Truck Co. (Commercial & Sight-
Seeing Cars), Altoona, Pa.
Commercial Motor Truck Co., Plymouth, O.
†Commercial Motor Vehicle Co. ("Quadry,"
Heavy Trucks, Busses, etc.), Detroit, Mich.
Conover Motor Car Co. (Touring & Runabout),
Paterson, N. J.
Consolidated Mfg. Co. ("Yale"), Toledo, O.
Coppock Motor Car Co. (Commercial Trucks),
Marwin, Ind.
Corbin Motor Vehicle Corporation (Corbin Air-
Cooled Touring Cars & Heavy Trucks), New
Britain, Conn.
Corwin Mfg. Co. ("Gas-au-lec"), Peabody,
Mass.
†Couple-Gear Freight Wheel Co., Grand Rapids,
Mich.
Covert Motor Vehicle Co. ("Covert" Chainless
Touring Cars), Lockport, N. Y.
Cralg-Toledo Motor Co. (Roadster), Toledo, O.
Crawford Automobile Co. ("Crawford" Cars),
Hagerstown, Md.
Crescent Automobile Co., Jersey City, N. J.
Croesus Motor Car Co., Kansas City, Mo.
Cuiver Practical Automobile Co., Aurora, Ill.
Daimler Mfg. Co. ("American Mercedes" Tour-
ing Cars, Commercial Wagons, etc.), 939
Steinway av., Long Island City, N. Y.
Dayton Motor Car Co. ("Stoddard-Dayton"),
Dayton, O.
Decauville Automobile Co., 1684 B'way, N. Y.
De Detrich Importing Co., 215 W 48th, N. Y.
De Luxe Motor Co., Detroit, Mich.
Deere-Clark Motor Car Co., East Moline, Ill.
Delaware Machine Works ("Harrismobiles"),
Wilmington, Del.
De Luxe Motor Car Co. ("Queen" Touring Car),
Toledo, O.
Detroit Auto Vehicle Co., Detroit, Mich.
Detroit Auto Mfg. Co. ("Detroit" & "La
Petite"), 251 Jefferson av., Detroit, Mich.
Detroit Motor Car Co., Detroit, Mich.
Diamond T Motor Car Co. (Touring), 3 Huron,
Chicago, Ill.
Dingfelder, Max, 958 Jefferson av., Detroit,
Mich.
Dolson Automobile Co. ("Dolson" & "Cannon
Ball"), Charlotte, Mich.
Dorris Motor Car Co. (Touring Cars), 1211 Van-
deventer, St. Louis, Mo.
Dragon Automobile Co. ("Dragon"), Phila., Pa.
Dunbar Mfg. Co., Sandusky, O.
Duquesne Construction Co. ("Duquesne" Cars),
Jamestown, N. Y.
Duryea Power Co., Reading, Pa.
*†E. H. V. Co. (Electric & Gasoline Touring
Cars, Runabouts, etc.), Middletown, Conn.
Eckhart Carriage Co., Auburn, Ind.
*†Electric Vehicle Co. ("Columbia" Carriages,
Delivery Wagons, Trucks, etc., Electric &
Gasoline), Hartford, Conn.
Elmore Mfg. Co. ("Elmore" Pathfinder Touring
Cars, 2 cycle), Clide, O.
Fahrmount Engineering Works, 2652 Callowhill,
Philadelphia, Pa.
Eureka Mfg. Co. ("Eureka" Touring Cars),
Detroit, Mich.
Evansville Automobile Co. ("Simplicity" Gear-
less Cars), Evansville, Ind.
Fee-Bock Auto Co. (Touring), Detroit, Mich.
Federal Motor Car Co. ("Federal" Runabouts),
First National Bank bldg., Chicago, Ill.
†Flandean & Co., 406 Broome, New York
Ford Motor Co. (4 cylinder Touring Cars, Run-
abouts, Racing Cars, etc.), Detroit, Mich.
Forrest City Motor Car Co. ("Jewel" Runabout,
"Stanhope"), Massillon, O.

Four Wheel Drive Wagon Co., Milwaukee, Wis.
Franklin, H. H. Mfg. Co. ("Franklin" Run-
abouts, Touring Cars, etc.), Syracuse, N. Y.
Gallaher, E. B. (rep. "Richard-Brasler,"
France), 228 W 58th, New York
Gallia Electric Carriage Co. (Electric Car-
riages), Gallia, O.
Gaugler, L. J. (rep. "Delhaye," France), 290
B'way, New York
Gaeth Automobile Works ("Gaeth" Touring
Cars, etc.), 902 Pearl, Cleveland, O.
Gas Engine & Power Co. & Chas. L. Seabury
& Co. (4-cylinder "Speedway" Cars), Mor-
ris Heights, New York
Gearless Transmission Co., Rochester, N. Y.
Grout Bros. Automobile Co. (Touring Cars),
Orange, Mass.
*Halsey, Jas. T. Motor Truck Co. (Steam &
Gasoline Trucks), 336 N York av., Phila.,
Pa.
Hammer Motor Co. ("Hammer" 4-cylinder
Touring Cars), Detroit, Mich.
Harrison Wagon Co., Grand Rapids, Mich.
Hartford Suspension Co. ("Gobron-Brille"), 67
Vestry, New York
Hatfield Motor Vehicle Co. ("Buggyabout"),
Cortland, N. Y.
Haydock, D. W. Motor Car Mfg. Co. ("Hay-
dock" Runabouts), Plne & Commercial, St.
Louis, Mo.
Haynes Automobile Co. (Touring Cars), Koko-
mo, Ind.
Hewitt Motor Co. (Touring & Commercial Cars),
6 E 31st, New York
Hinde & Dauch ("Climax"), Sandusky, O.
Holsman Automobile Co. ("Holsman"), Monad-
nock blk, Chicago, Ill.
Holyoke Motor Works, Holyoke, Mass.
International Harvester Co. ("Farmers"), 7
Monroe, Chicago, Ill.
Iroquois Iron Works, Buffalo, N. Y.
Iroquois Motor Car Co. ("Iroquois" Touring
Cars), Seneca Falls, N. Y.
Jackson Automobile Co. (Touring Cars & Run-
abouts), Jackson, Mich.
Jeffrey, Thos. B. & Co. ("Rambler" Runabouts,
Surreys, Touring Cars, etc.), Kenosha, Wis.
Johnson Gasoline Motor Co., Manchester, N. H.
*Johnson Service Co. (Commercial Wagons), Mil-
waukee, Wis.
Jones-Corbin Automobile Co., Chestnut & 31st,
Philadelphia, Pa.
Kansas City Motor Car Co. (Commercial Auto
Trucks), Kansas City, Mo.
Kirk Bros. Automobile Co. ("Yale"), Toledo, O.
Kissel Motor Car Co. ("Badger" Touring Car),
Hartford, Wis.
Klink Motor Car Mfg. Co., Dansville, N. Y.
Knight & Kilbourne ("Silent Knight" Touring
Car), Chicago, Ill.
Knox Automobile Co. ("Knox" Waterless Run-
abouts, Touring Cars, etc.), Springfield,
Mass.
Knox Motor Truck Co. (Commercial Wagons,
Trucks, etc.), Springfield, Mass.
Kunz, J. L. Machinery Co. ("Kunz" Air Cooled
Cars), 484 Market, Milwaukee, Wis.
Krueger Mfg. Co. ("Eclipse" Touring Cars, De-
livery Wagons, etc.), Milwaukee, Wis.
*Lane Motor Vehicle Co. (Touring Cars), Pough-
keepsie, N. Y.
†Lansden Co. (Comm'l Wagons), Newark, N. J.
La Salle Niagara Auto Co., La Salle, N. Y.
Lear, Oscar Automobile Co. ("Frayer-Miller"
Touring Cars), Columbus, O.

Lebanon Motor Co., Lebanon, Pa.
*†Locomotive Company of America (Gasoline
Touring Cars), Bridgeport, Conn.
*†Logan Construction Co. (Touring Cars,
Trucks, etc., Electric & Gasoline), Chil-
cothe, O.
Lozier Motor Co. ("Lozier" Motor Cars, etc.),
55th & B'way, New York
Loomis Motor Car Co., Westfield, Mass.
Luverne Auto Co., Luverne, Minn.
†McCrea Motor Truck Co., American Trust bldg.,
Cleveland, O.
Mack Bros. Motor Car Co. ("Manhattan"
Trucks, Delivery Wagons, Railroad Cars,
etc.), Allentown, Pa., & Brooklyn, N. Y.
Mahoning Motor Car Co., Youngstown, O.
Marion Motor Car Co. ("Marion" Air Cooled
Cars), Indianapolis, Ind.
Marr Auto Co., Chamber of Commerce, De-
troit, Mich.
Marvel Motor Car Co. (Runabout), Detroit,
Mich.
Mason Motor Car Co. ("Mason"), 200 E 5th,
Des Moines, Ia.
Matheson Motor Car Co. (Ltd.) (Touring Cars),
Wilkes-Barre, Pa.
Matthews Motor Co. ("Sovereign"), Camden,
N. J.
Maxwell-Briscoe Motor Co. (Touring Cars), Tar-
rytown, N. Y.
Med-Bow Automobile Co. ("Springfield" Tour-
ing), Springfield, Mass.
†Mercantile Motor Co., Jersey City, N. J.
Merkel Motor Co. ("Merkel"), 1098 26th av.,
Milwaukee, Wis.
Meteor Automobile Works ("Meteor" Touring),
Bettendorf, Ia.
Michigan Automobile Co. (Ltd.) (Light Touring
Cars), Kalamazoo, Mich.
Miller Garage Co. ("Miller"), Bridgeport, Conn.
Milwaukee Auto Engine & Supply Co., 706
Winnebago, Milwaukee, Wis.
Mississippi Valley Automobile Co., 3935 Olive,
St. Louis, Mo.
Mitchell Motor Car Co. (Touring Cars & Run-
abouts), Racine, Wis.
Model Auto Co. ("Pullman" Touring), Peru, Ind.
Model Gas Engine Works ("Model" Touring
Cars), Peru, Ind.
Moline Automobile Co. ("Moline"), East
Moline, Ill.
Monarch Motor Car Co. ("Monarch"), Monad-
nock blk, Chicago, Ill.
Moon Motor Car Co. ("Moon" Touring Cars),
St. Louis, Mo.
Moore Automobile Co. ("Moore"), 571 5th av.,
New York
Mora Motor Car Co. (Touring, etc.), Rochester,
N. Y.
Mors Automobile Co., 41 W 55th, New York
Motor Car Co. ("Cartercar"), Detroit, Mich.
Motorcar Co. ("Motorcar"), Jackson, Mich.
Myers, A. J. (Mm. Agent for "Aries" Cars),
1591 B'way, New York
*†National Motor Vehicle Co. ("The New Na-
tional" Runabouts, Touring Cars, etc., Elec-
tric & Gasoline), Indianapolis, Ind.
Napier Motor Co. of America (Touring Cars),
49th & B'way, New York
National Sewing Machine Co., Belvedere, Ill.
Nielson Motor Car Co. (Runabout), Detroit,
Mich.
Nordyke & Marmon Co. ("Marmon" Touring
Cars), Indianapolis, Ind.
Northern Motor Mfg. Co. (Runabouts, Touring
Cars, etc.), Detroit, Mich.
O. K. Machine Works, 887 Main, Buffalo, N. Y.

MILTON P. HIGGINS, Pres.

JOHN W. HIGGINS, Sec. and Gen. Manager.

GEORGE I. ALDEN, Treas.



Worcester Pressed Steel Company,

LIGHT AND HEAVY METAL STAMPING, COLD FORGING

BALL BEARINGS, STOVE TRIMMINGS AND SHEET METAL SPECIALTIES, AUTOMOBILE, BICYCLE AND ELECTRICAL FITTINGS.

FERRULES, SEPARATOR PARTS, BRAKE DRUMS, HUB FLANGES, PIPE COLLARS,
AUTOGENOUS WELDING, CASE-HARDENING, ELECTRO-PLATING.

CHICAGO OFFICE, 1064 MONADNOCK BLOCK.

Main Office and Factory, Worcester, Massachusetts.

CABLE ADDRESS, PRESTEEL.
CODES, A. B. C., LIEBERS.
PHONE No. 1500

Olds Motor Works (Runabouts, Touring Cars, Delivery Wagons, etc.), Lansing, Mich.
 Overland Auto Co. (Runabout), Indianapolis, Ind.
 Owosso Carriage Co., Owosso, Mich.
 Packard Motor Car Co., Detroit, Mich.
 Page Gas Engine Co. ("Page-Adrian" Air Cooled), Adrian, Mich.
 Palais de l'Automobile, 500 5th av, New York
 Palmer & Christie (Am. Ag'ts for Swiss "Martini" Cars), 239 W 50th, New York
 Panhard & Levassor Auto Co., B'way & 62d, New York
 Peerless Motor Car Co. ("Peerless" Touring Cars), Cleveland, O.
 Pennsylvania Auto-Motor Co. (Touring), Land Title bldg, Phila., Pa.
 Pierce Eugene Co. ("Pierce-Racine" Runabouts & Touring Cars) Racine, Wis.
 Pierce, Geo. N. Co. Cycles, "Arrow" Motor Cars, etc., 18 Hanover, Buffalo, N. Y.
 *Pittsburg Machine Tool Co., 61 Darrah, Allegheny, Pa.
 †Pittsburg Motor Vehicle Co., Pittsburg, Pa.
 Pope Mfg. Co. ("Pope-Hartford" Touring Cars), Hartford, Conn.
 Pope Mfg. Co. ("Pope-Tribune" Cars), Hagerstown, Md.
 Pope Motor Car Co. ("Pope-Waverly"), Indianapolis, Ind.
 Pope Motor Car Co. ("Pope-Toledo"), Toledo, O.
 Pokorney, H. ("Pokorney" Air Cooled Cars), 1702 Bellefontaine, Indianapolis, Ind.
 Postal Automobile & Engine Co. ("Postal" Runabouts), Bedford, Ind.
 Premier Motor Mfg. Co., 1013 Georgia, Indianapolis, Ind.
 *Prescott Automobile Mfg. Co., 90 W B'way, New York; Works: Passaic, N. J.
 Pungs-Finch Auto & Gas Engine Co. (4-cylinder Touring Cars), Detroit, Mich.
 Rainier Co., B'way & 50th, New York
 Randall, J. V. & Co. ("Randall" 3 Wheeler), Newtown, Pa.
 Rapid Motor Vehicle Co. (Commercial Power Wagons), Pontiac, Mich.
 Rauch & Lang Carriage Co., 406 Superior, Cleveland, O.
 Ray-Car Motor Boat & Mach. Co. (Inc.), College Point, L. I., N. Y.
 Reeves & Co. (Gasoline), Columbus, O.
 Regas Automobile Co., Rochester, N. Y.
 Reid Mfg. Co. ("Wolverine" Chainless Touring Cars), 1717 Jones, Detroit, Mich.
 Reliable Dayton Motor Car Co. ("Reliable Dayton"), 375 W Lake, Chicago, Ill.
 Reliance Motor Car Co. (Touring Cars), 67 Fort, E Detroit, Mich.
 Reo Motor Car Co. (Gasoline), Lansing, Mich.
 *Ross, Louis S., Newtonville, Mass.
 *†Royal Automobile Co. ("Royal Princess" Touring Cars & Runabouts, Gas & Gasoline), 146 S Green, Chicago, Ill.
 Royal Motor Car Co. ("Royal" Touring Cars), Lake & Marquette, Cleveland, O.
 St. Louis Car Co. ("Mors"), St. Louis, Mo.
 *†St. Louis Motor Car Co. (Touring Cars, Gas & Electric Combination), Peoria, Ill.
 Schacht Mfg. Co., Cincinnati, O.
 Schnader, Milton H. ("Riviera"), Reading, Pa.
 Seagrave Co., Columbus, O.
 Shawmut Motor Co. ("Shawmut" Touring Cars), Stoneham, Mass.
 Sheffield Car Co. (Gasoline Trucks, Drays & Delivery Wagons), Three Rivers, Mich.
 Shelby Motor Car Co. (Gasoline, Passenger, Touring & Delivery), Shelby, O.
 Shoemaker Auto Co., Freeport, Ill.
 Simplex Motor Car Co., Mishawaka, Ind.
 Skinner, K. A. (Sole U. S. Ag't for De Dion Bouton Co., Brouton & Co., & C. E. Herold & Co., of France), 179 Clarendon, Boston, Mass.
 Smith Auto Co. ("Smith" Touring), Topeka, Kans.
 Smith & Mabley (Inc.) (Mfrs. of "S. & M. Simplex," & American Agents for "Mercedes," "Renault," "Panhard," etc.), 513 7th av, New York
 Sommer Motor Co., Detroit, Mich.
 Soules Motor Car Co. (Delivery Wagons, etc.), Grand Rapids, Mich.
 Special Motor Vehicle Co., 223 E 4th, Cincinnati, O.
 *†Springfield Automobile Co. ("Bramwell" Cars), Springfield, O.
 Standard Motor Co., Kokomo, Ind.
 Standard Motor Construction Co. (Touring Cars, etc.), 180 Whiton, Jersey City, N. J.
 *Stanley Motor Carriage Co., Newton, Mass.
 Staver Carriage Co. (Runabout), W 76th & Wallace, Chicago, Ill.

Stearns, F. B. Co. (Touring Cars, etc.), 2963 Euclid av, Cleveland, O.
 Stevens-Duryea Co. (Runabouts, Touring Cars, etc.), Chicopee Falls, Mass.
 Streater Motor Car Co. ("Halladay"), Streater, Ill.
 Studebaker Automobile Co., South Bend, Ind.
 *†Sturtevant Mill Co. ("Sturtevant" Touring Cars, Electric & Gasoline), Clayton c Park av, Dor., Boston, Mass.
 Success Auto-Buggy Co. (Air Cooled Gasoline Buggies), 530 De Balivere av, St. Louis, Mo.
 Sunset Automobile Co., 1814 Market, San Francisco, Cal.
 †Synnvest Machine Co. (Surreys, Busses, Delivery Wagons, Trucks, etc.), Pittsburg.
 Thomas, E. R. Motor Co. (Racing Cars, Touring Cars, Victorias, Limousines, etc.), Buffalo, N. Y.
 Tinchin Motor Car Co. ("Tinchin" Cars), Chl-Torhensen Motor Car Co., Bloomfield, N. J.
 Trebert Gas Engine Co., Rochester, N. Y.
 Triumph Motor Car Co. (Runabout, Touring), Cragin Station, Chicago, Ill.
 *Trumbull Mfg. Co., Warren, O.
 Twombly Power Co., 12th av & 51st, New York
 Twyford Motor Car Co., Brookville, Pa.
 Union Automobile Mfg. Co. (Touring Cars), Union City, Ind.
 University Auto Co. ("Continental" Touring), New Haven, Conn.
 *†Vehicle Equipment Co. (Electric & Gasoline), Long Island City, N. Y.
 Viqueot Co. (Touring Cars), Long Island City, N. Y.
 Walker Motor Car Co. (Runabout), Detroit, Mich.
 Walter Auto Co. (Touring Car, etc.), Trenton, N. J., & 49 W 66th, New York
 Waltham Mfg. Co. ("Orient" Touring Cars & Runabouts), Waltham, Mass.
 Warren Automobile Co. ("Barnhart" Cars), Warren, Pa.
 Watrous Automobile Co. (Air Cooled Cars), Elmira, N. Y.
 Wayne Automobile Co. (Touring Cars, 2 & 4 cylinders), Detroit, Mich.
 Wayne Works ("Richmond" Air Cooled Cars), Richmond, Ind.
 Welch Motor Car Co., Detroit & Pontiac, Mich.
 Western Tool Works ("Gale" Runabouts), Galesburg, Ill.
 *White Co. (Steam), 3238 Lorain av, Cleveland, O.
 Wiffler, Chas. E. Automobile Co., 12 Shermau, Detroit, Mich.
 Wilcox, H. E. Motor Car Co. ("Wolfe" Air Cooled), Minneapolis, Minn.
 †Williams Electric Vehicle Co. ("Williams" Touring Cars), Cleveland, O.
 Windsor Automobile Co. (Gearless), Windsor, Ind.
 Winton Motor Carriage Co., Berea rd, Cleveland, O.
 Wolverine Auto & Commercial Vehicle Co., Dundee, Mich.
 *†Woods Motor Vehicle Co. (Electric & Gasoline), 110 E 20th, Chicago, Ill.
 Worth Motor Car Mfg. Co., Evansville, Ind.
 Worthington Automobile Co., 547 5th av, New York
 York Motor Car Co. ("Pullman" Gasoline), York, Pa.
 Zent Auto Mfg. Co., Bellefontaine, O.
 Zimmer Machine Works (Railway Motor Cars), Hammondsport, N. Y.

Automobile or Motor Car Trade Names

(Each name is followed by the title (in some cases in an abbreviated form) of the firm making or handling car. The full name, address and variety of product of each firm may be found at a glance by consulting the preceding list of Automobile Builders. Names of foreign cars are followed by the name of the country in which the car is made.)

"ACME"—Acme M. C. Co.
 "ADAMS-FARWELL"—Adams Co.
 "AEROCAR"—Aerocar Co.
 "ARIEL"—Ariel Auto Co.
 "AMERICAN MERCEDES"—Daimler Mfg. Co.
 "AMERICAN"—American M. Car Co.
 "APPERSON"—Apperson Bros. Auto. Co.
 "ARDSLEY"—Ardsley M. C. Co.
 "ARIES" (France)—Myers, A. J.
 "ASTER"—Aster Co.
 "ATLAS"—Knox Motor Truck Co.
 "AUBURN"—Auburn Automobile Co.
 "AUSTIN"—Austin Automobile Co.

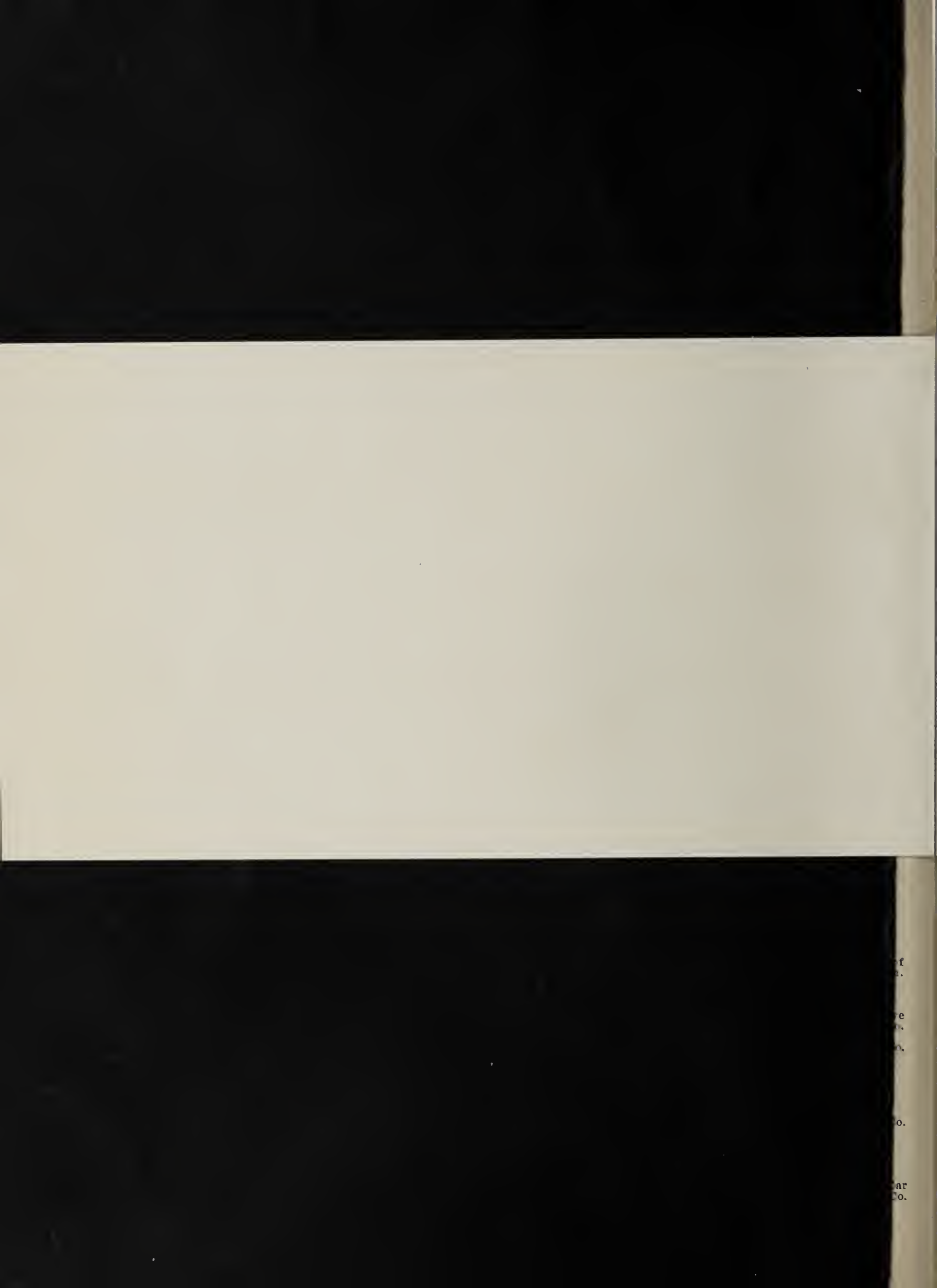
"AUTOCAR"—Autocar Co.
 "AUTOCARRIAGE"—Johnson Service Co.
 "AVERAGE MAN'S"—Adams Automobile Co.
 "BADGER"—Kissel Motor Car Co.
 "BAKER"—Baker M. V. Co.
 "BANKER"—Banker, A. C., Co.
 "BARNHART"—Warren Automobile Co.
 "BAY STATE FORTY"—Bay State A. Co.
 "BELLEFONTAINE"—Bellefontaine Automobile Co.
 "BELLEVILLE"—Tilston, C. A. Co.
 "BERG"—Worthington Automobile Co.
 "BERKSHIRE"—Berkshire Automobile Co.
 "BERLIET" (France)—Mendal, Dale & Co.
 "BERLIET"—American Locomotive Automobile
 "BIANCHI"—Percy Owen Co.
 "B. L. M."—B. L. M. M. C. & E. Co.
 "BLOOD"—Blood Bros. A. & M. Co. Co.
 "B. M."—Biddle-Murray Mfg. Co.
 "BOSS"—Boss K. M. Works
 "BRAMWELL"—Springfield Auto Co.
 "BUFFALO"—Babcock Electric Carriage Co.
 "BUFFALO"—Buffum, H. H. Co.
 "BUGGYABOUT"—Hatfield M. V. Co.
 "BUICK"—Buick M. C. Co.
 "CADILLAC"—Cadillac Motor Car Co.
 "CAMERON"—Cameron Car Co.
 "CANNON BALL"—Dolson Automobile Co.
 "CANTONO"—Cantono Elec. Tractor Co.
 "C. G. & V." (France)—Wyckoff, Church & Partridge
 "CARTERCAR"—Motor Car Co.
 "CHADWICK"—Fairmount Eng. Works Co.
 "CHAMPION"—Champion Commercial Motor Vehicle Co.
 "CHICAGO"—Chicago Commercial A. M. Co.
 "CLEMENT - BAYARD" (France)—Bowman Auto Co.
 "CLEVELAND"—Cleveland M. C. Co.
 "CLIMAX"—Hinde & Dauch
 "COLUMBIA"—Electric Vehicle Co.
 "COLUMBUS"—Columbus Buggy Co.
 "COMMERCE TRUCKS"—American Machine Mfg. Co.
 "COMPOUND"—E. H. V. Co.
 "CONOVER"—Conover M. C. Co.
 "CONTINENTAL"—University Auto Co.
 "CORBIN"—Corbin M. V. Corporation
 "COULTHARD"—Am. Coulthard Co.
 "COURIER"—Sandusky Auto Co.
 "COVERT"—Covert M. V. Co.
 "CRAIG-TOLEDO"—Craig-Toledo M. Co.
 "CRAWFORD"—Crawford Automobile Co.
 "CREST"—Clark, E. S.
 "CROESUS"—Croesus Motor Car Co.
 "CROWN"—Detroit A. V. Co.
 "CULVER"—Culver Practical Automobile Co.
 "DAIMLER" (English)—Wyckoff, Church & Partridge
 "DARRACQ" (France)—Am. Darracq Auto Co.
 "DECAUVILLE" (France)—Decauville Auto Co.
 "DE DETRICH" (France)—De Detrich Importing Co.
 "DEERE"—Deere-Clark Motor Car Co.
 "DE LA BUIRE"—Lillie, E.
 "DE LEON" (France)—Archer & Co.
 "DELHAYE" (France)—Gaugler, L. J.
 "DELAUNAY"—Tilston C. A. Co.
 "DE LUXE"—De Lue Motor Co.
 "DETROIT"—Detroit Auto Mfg. Co.
 "DOLSON"—Dolson Automobile Co.
 "DORRIS"—Dorris Motor Car Co.
 "DRAGON"—Dragon Automobile Co.
 "DU BRIE CAILLE"—Caille Bros.
 "DUR"—Chicago Coach & Carriage Co.
 "DUQUESNE"—Duquesne Const'n Co.
 "DURYEA"—Duryea Power Co.
 "ECLIPSE"—Krueger Mfg. Co.
 "ELMORE"—Elmore Mfg. Co.
 "EUREKA"—Eureka Mfg. Co.
 "FARMERS"—International Harvester Co. of Am.
 "FEDERAL"—Federal Motor Car Co.
 "FIAT" (Italy)—Hollander & Tangeman.
 "FLYING CHIEFTAIN"—Seagrave Co.
 "FORD"—Ford Motor Co.
 "FOUR WHEEL DRIVE"—Four Wheel Drive Wagon Co.
 "FRANKLIN"—Franklin, H. H. Mfg. Co.
 "FRAYER-MILLER"—Lear, O. S. L. Auto Co.
 "GAETH"—Gaeth Automobile Works
 "GALE"—Western Tool Works
 "GALLIA"—Gallia Electric Carriage Co.
 "GAS-AU-LEC"—Corwin Automobile Co.
 "GEARLESS"—Gearless Trans. Co.
 "GLIDE"—Bartholomew Co.
 "GOBRON-BRILLE"—Hartford Suspension Co.
 "GREAT ARROW"—Pierce, G. N. Co.
 "GROUT"—Grout Bros. Automobile Co.
 "HALLIDAY"—Streater Motor Co.
 "HAMMER"—Hammer Motor Co.
 "HARRISON"—Harrison Motor Co.
 "HAYDOCK"—Haydock, D. W. Motor Car Mfg. Co.
 "HAYNES"—Haynes Automobile Co.
 "HERSCHMAN"—Columbia Eng. Works

Stamped Parts for Automobiles

WHEEL FLANGES, BRASS HUB CAPS, BRAKE DRUMS,
GEAR COVERS, BALL CUPS, LAMP PROPS . . .

SPECIAL STAMPINGS OF ALL KINDS FROM STEEL AND BRASS

THE CROSBY COMPANY, 171-189 Pratt St., Buffalo, N. Y.



of
re

re
to.

to.

ar
Co.

"HEWITT"—Hewitt Motor Co.
 "HOLSMAN"—Holsman Automobile Co.
 "HOTCHKISS" (France)—Archer & Co.
 "IMPERIAL"—Commercial Truck Co.
 "IROQUOIS"—Iroquois M. C. Co.
 "IROQUOIS STAGE"—Barber Asphalt Co.
 "ISOTTA" (Italy)—Smith & Mabley
 "ITALA" (Italy)—Itala Importing Co.
 "JACKSON"—Jackson Automobile Co.
 "JEWEL"—Forest City M. C. Co.
 "JOHNSON"—Johnson Service Co.
 "JUVENILE"—American M. W. & A. Co.
 "KANSAS CITY CAR"—Kansas City Motor
 "KNOX"—Knox Automobile Co. Car Co.
 "KUNZ"—Kunz, J. L. M. Co.
 "LA PETITE"—Detroit Auto Mfg. Co.
 "LAMBERT"—Buckeye Mfg. Co.
 "LANE"—Lane M. V. Co.
 "LANDSDEN"—Lansden Co.
 "LEON BOLLEE" (France)—Mason, Norris N.
 "LOCOMOBILE"—Locomobile Co. of Am.
 "LOGAN"—Logan Construction Co.
 "LOZIER"—Lozier M. Co.
 "MANHATTAN"—Mack Bros. Co.
 "MARION"—Marion M. C. Co.
 "MARMON"—Nordyke & Marmon Co.
 "MASON"—Mason Motor Car Co.
 "MATHESON"—Matheson M. C. Co.
 "MARTINI" (Switzerland)—Martini Import Co.
 "MAXWELL"—Maxwell-Briscoe M. Co.
 "MERCEDES" (Germany)—Smith & Mabley
 "MERKEL"—Merkel Motor Co. (Inc.)
 "METEOR"—Meteor A. Co.
 "MICHIGAN"—Michigan A. Co.
 "MILLER"—Miller Garage Co.
 "MITCHELL"—Mitchell M. C. Co.
 "MODEL"—Model G. E. Works
 "MOLINE"—Moline Automobile Co.
 "MONARCH"—Monarch Motor Car Co.
 "MOON"—Moon Motor Car Co.
 "MOORE"—Moore Automobile Co.
 "MORS" (France)—Mors Auto Co.
 "MORS" (American)—St. Louis Car Co.
 "NAPIER" (England)—Napier M. C. Co. of Am.
 "NAPIER" (England)—Central Auto Co.
 "NATIONAL"—National M. V. Co.
 "NIAGARA"—La Salle-Niagara Auto Co.
 "NORTHERN"—Northern M. Co.
 "OLDSMOBILE"—Olds Motor Works
 "OVERLAND"—Overland A. Co.
 "PACKARD"—Packard M. C. Co.
 "PANHARD"—Panhard C. A. Co.
 "PEERLESS"—Peerless M. C. Co.
 "PEUGEOT" (France)—American Peugeot
 Auto. Co.

"PIERCE RACINE"—Pierce Eng. Co.
 "PILIAN"—De Barris Auto. Co.
 "PIPE" (Belgium)—Heller, J. S.
 "POKORNEY"—Pokorney, H.
 "POPE-HARTFORD"—Pope Mfg. Co. (Conn.)
 "POPE-TOLEDO"—Pope M. C. Co. (O.)
 "POPE-TRIBUNE"—Pope Mfg. Co. (Md.)
 "POPE-WAVERLY"—Pope M. C. Co. (Ind.)
 "POSTAL"—Postal Automobile & Engine Co.
 "PREMIER"—Premier M. Mfg. Co.
 "PRESCOTT"—Prescott Automobile Mfg. Co.
 "PULLMAN"—York Motor Car Co.
 "PUNGS-FINCH"—Pungs-Finch A. & G. E. Co.
 "QUADRAY"—Commercial M. V. Co.
 "QUEEN"—Blomstrom, C. H. M. Co.
 "RAINIER"—Rainier Co.
 "RAMBLER"—Jeffrey, T. B. & Co.
 "RANDALL"—Randall, J. V. & Co.
 "RAPID"—Rapid M. V. Co.
 "REGAS"—Regas Automobile Co.
 "RELIABLE DAYTON"—Reliable Dayton M.
 "RELIANCE"—Reliance M. C. Co. C. Co.
 "RENAULT" (France)—Tileston, C. A. Co.
 "REO"—Reo M. C. Co.
 "RICHMOND"—Wayne Works
 "RIVIERA"—Schnader, M. H.
 "ROCHET SCHNEIDER" (France)—Auto Imp.
 "ROOT"—Abendroth & Root Mfg. Co.
 "ROYAL PRINCESS"—Royal Automobile Co.
 "ROYAL TOURIST"—Royal M. C. Co. Co.
 "SCHACHT"—Schacht Mfg. Co.
 "SERVITOR"—Barnes Mfg. Co.
 "SILENT KNIGHT"—Knight & Kilbourne
 "SIMPLICITY"—Evansville Automobile Co.
 "S. & M. SIMPLEX"—Smith & Mabley (Inc.)
 "SMITH"—Smith A. Co.

"SOMMER"—Sommer Motor Co.
 "SOULES"—Soules Motor Car Co.
 "SOVEREIGN"—Matthews Motor Co.
 "SPEEDWAY"—Gas Engine & P. Co., & C. L.
 "SPRINGFIELD"—Med-Bow A. Co.
 "ST. LOUIS"—St. Louis M. C. Co. S. & Co.
 "STANDARD"—Standard M. C. Co.
 "STANLEY"—Stanley M. C. Co.
 "STEARNS"—Stearns, F. B. Co.
 "STEVENS-DURYEA"—Stevens-Duryea Co.
 "STUDEBAKER"—Studebaker Automobile Co.
 "STURTEVANT"—Sturtevant Mill Co.
 "STODDARD-DAYTON"—Dayton M. C. Co.
 "SUCCESS"—Auto-Buggy Co.
 "SYNNESTVEDT"—Synnestvedt Mach. Co.
 "THOMAS"—Thomas, E. R., Motor Co.
 "TINCHER"—Tinchler Motor Car Co.
 "TORBENSEN"—Torbensen Motor Car Co.
 "TRIUMPH"—Triumph M. C. Co.
 "TWYFORD"—Twiford M. C. Co.
 "UNION"—Union Automobile Co.
 "VINOT" (France)—Central Auto Co.
 "VIQUEOT"—Viqueot Co.
 "WALKER"—Walker Motor Car Co.
 "WALTER"—Commercial Motor Co.
 "WALTHAM-ORIENT"—Waltham Mfg. Co.
 "WATERLOO"—Cascaden-Vaughn Co.
 "WATROUS"—Watrous Auto Co.
 "WAYNE"—Wayne Automobile Co.
 "WELCH"—Welch M. C. Co.
 "WESTINGHOUSE" (France)—B. L. M. Co.
 "WHITE"—The White Co.
 "WILLIAMS"—Casaday, W. L., Mfg. Co.
 "WILLIAMS"—Williams Electric Vehicle Co.
 "WINDSOR"—Windsor Automobile Co.
 "WINTON"—Winton M. C. Co.
 "WOLFE"—H. E. Wilcox M. Car Co.
 "WOLVERINE"—Reid Mfg. Co.
 "WOODS"—Woods M. V. Co.
 "WORTHINGTON-TON-BOLLEE"—Worthington
 "YALE"—Kirk Bros. A. Co. Auto Co.
 "ZUST"—R. Bertell & Co.

*Automobile Electrical Equipment

WESTINGHOUSE ELECTRIC & MFG.
 Co., Pittsburg, Pa. (See adv. index, end of book)

*Automobile Parts & Fittings

(See also the specific article required.)

ANDERSON FORGE & MACHINE CO.,
 271 Guoin, Detroit, Mich. (See adv. index,
 end of book)

CROSBY CO. (Wheel Flanges & Caps, Ball Cups), 171-189 Pratt, Buffalo, N. Y. (See adv. below)

LUNKENHEIMER CO. (Lubricators & Fittings), General offices, Beekman & Waverly, Cincinnati, O. (See adv. index, end of book)

MEZGER, C. A. ("Soot Proof" Spark Plug), 203 W 80th, New York. (See adv. index, end of book)

SIMMONS, JOHN CO., 110 Center, N. Y. (See adv. index, end of book)

WILLIAMS, T. D. VALVE CO., 904 B'way, Cincinnati, O. (See adv. index, end of book)

WORCESTER PRESSED STEEL CO. (also Carriage Fittings), Worcester, Mass. (See adv. index, end of book)

*Automobile Sheet Metal Forms

WORCESTER PRESSED STEEL CO., Worcester, Mass. (See adv. index, end of book)

*Automobile Stampings

CROSBY CO., THE, 171-189 Pratt, Buffalo, N. Y. (See adv. below)

WORCESTER PRESSED STEEL CO., Worcester, Mass. (See adv. index, end of book)

Automobile Supplies

This is a list of jobbing houses only. Manufacturers of parts and supplies will be found classified under the respective names of the articles they make.

Accessory Import & Mfg. Co., Warren, New York
 Ames & Wimmer Co., 29 Washington av, Detroit, Mich.

Angier Co., The, 735 Boylston, Boston, Mass.
 Arnstein, Eugene, 35th & Shields av, Chicago, Ill.

Auto Accessories Co., 99 Mueller, Cleveland, O.
 Auto Accessories Mfg. Co., 265 Jefferson av, Detroit, Mich.

Auto-Car Equipment Co., 77 Edwards, Buffalo, N. Y.

Auto Parts Co., 1551 Michigan av, Chicago, Ill.
 Auto Specialty Mfg. Co., Salem, Mass.

Auto Supply Co. (Inc.), B'way & 52d, N. Y.
 Auto & Boat Supply Co., Madison, Wis.

Automobile Buyers Association, 98 Chambers, New York
 Automobile Equipment Co., 260 Jefferson av, Chicago, Ill.

Automobile Equipment Co., Detroit, Mich.
 Automobile Exchange & Supply Co., 3939 Olive, St. Louis, Mo.

Automobile Owners' Supply Depot, 1655 B'way, New York
 Automobile Supply Co., 1339 Michigan boul, Ball-Fintze Co., Newark, O. Chicago, Ill.

Beckley-Ralston Co., 80 Michigan av, Chicago, Ill.
 Bogen, H. W., 66 Golden Gate av, San Francisco, Cal.

Behen-Faught Motor Car Equipment Co., 3961 Olive, St. Louis, Mo.
 Bishop Auto Supply Co., Olive & Walton, St. Louis, Mo.

Borbein Auto Co., 2109 N 9th, St. Louis, Mo.
 Boston Cycle & Sundry Co., 7 Hanover, Boston, Mass.

Brooklyn Motor Supply Co., 1175 Bedford av, Brooklyn, N. Y.

Browne, Wm. L., Worcester, Mass.
 Cash Buyers Union, 83 Chambers, New York

Champion, Albert Co. (French), 541 Tremont, Boston, Mass.
 Chandler & Farquhar Co., 34 Federal, Boston, Mass.

Chanslor & Lyon Motor Supply Co., Los Angeles, Cal.

Dac Automobile Supply House (French), 1739 B'way, New York
 Du Bois Search Light Co., 220 B'way, New York

Duquet, L. G., 107 W. 36th, New York
 Dyke, A. L., Auto Supply Co., Olive & Walton, St. Louis, Mo.

Eames, Hayden (Parts & Supplies), American Trust bldg, Cleveland, O.

Equitable Distributing Co., 24 Columbus av, Boston, Mass.

Excelsior Supply Co., 233 Randolph, Chicago
 Foote, D. E. Rubber Co., 326 Frankfort av, Cleveland, O.

Franco-American Auto & Supply Co., 1404 Michigan av, Chicago, Ill.

General Supply Co., 84 Chambers, & 52d & B'way, New York

Giannini, G. W., 437 W 42d, New York
 Gibney, J. L. & Bros., 211 N Broad, Phila., Pa.

Gorman Auto Supply House, 94 Columbus av, New York
 Gillespie, L. W. & Co., Marion, Ind.

Greiss, Geo. H., 2144 N 2d, Phila., Pa.
 Guarantee Tire & Bicycle Co., Indianapolis, Ind.

Herz & Co., 187 Elm, New York
 Hoover-Ball Co., Newark, O.

International Motor Car Supply Co., 41 W 33d, New York
 Johnson, Iver Sporting Goods Co., 163 Washington, Boston, Mass.

Kansas City Automobile Co., 1215 McGee, Kansas City, Mo.

Kasner, A. H., 152 Church, New York
 Kelsey Co., Buffalo, N. Y.

STAMPED PARTS FOR AUTOMOBILES

Wheel Flanges, Brass Hub Caps, Brake Drums, Gear Covers, Ball Cups, Lamp Props.
 Special Stampings of all kinds from Steel and Brass.

THE CROSBY COMPANY, - - 171-189 Pratt Street, BUFFALO, N. Y.

King Top Mfg. Co., Dayton, O.
 Leng's, J. S. Sons Co., 33 Murray, New York
 London Auto Supply Co., 1305 Michigan av,
 Chicago, Ill.
 Manhattan Storage Co., 42 Cortlandt, N. Y.
 Manufacturers' Supplies Co., 418 Arch, Phila.,
 Pa.
 Menchen, Jos. Electrical Co., 354 W 50th, New
 York
 Millard, Jas. & Son, Kingston, N. Y.
 Motor Car Equipment Co., 55 Warren, New
 York
 Motor Bicycle Equipment & Supply Co., Main
 & Allen, Buffalo, N. Y.
 Motor Car Supply Co., 1425 Michigan av, Chi-
 cago, Ill.
 Mutual Auto Accessories Co. of America, 1937
 B'way, New York
 National Sales Corporation, 296 B'way, New
 York
 National Supply Co., 17th & Market, Phila., Pa.
 Neustadt Auto & Supply Co., 826 S 18th, St.
 Louis, Mo.
 New York & Brooklyn Supply Co., 1693 B'way,
 New York
 New York Sporting Goods Co., 17 Warren, New
 York
 Nock, Geo. W. Co., 126 N 4th, Phila., Pa.
 Penn Auto Supply Co., N Broad & Race, Phila.,
 Pa.
 Phoenix Auto Supply Co. (Inc.), 3932 Olive, St.
 Louis, Mo.
 Post & Lester Co., Hartford, Conn.
 Progressive Cycle & Automobile Supply Co., 81
 Chambers, New York
 Rajab Auto Supply Co., 140 Washington, New
 York
 Reading Automobile Co., Reading, Pa.
 Roby, Sidney B. Co., Rochester, N. Y.
 Rubay, Leon (French), 140 W 38th, New York
 Shain, Chas. D., 70 Murray, New York
 Sibley & Pitman, 26 Warren, New York
 Smith & Mabley (Inc.), 513 7th av, New York
 Speare's, Alden, Sons Co., 369 Atlantic av,
 Boston, Mass., & 100 William, New York
 Stevens & Co., 99 Chambers, New York
 Storage Battery Supply Co., 237 E 27th, New
 York
 Strauss, Matthew, 707 Main, Buffalo, N. Y.
 Sussfield, Lorsch & Co. (French), 37 Maiden la,
 New York
 Taylor, H. D. Co., 101 Oak, Buffalo, N. Y.
 Thirty-Five-Per-Cent Automobile Supply Co., 83
 Chambers, New York
 Truscott Boat & Auto Supply Co., St. Joseph,
 Mich.
 United Auto Co. (French), 136 W 38th, New
 York
 Utility Co., 332 B'way, New York
 Walker, E. C. Co., 1905 Logan, Louisville, Ky.
 Wehn & Co., 29 W 42d, New York
 Weston Auto Supply Co., 1378 Bedford av,
 Brooklyn, N. Y.
 Willis, E. J. Co., 6 Park pl, New York
 Wing, Chas. Co., Amesbury, Mass.
 Winn, W. R., 143 Maiden la, New York
 Wooster Auto Co., 10 Barclay, New York

*Automobile Tank & Muffler Parts

WORCESTER PRESSED STEEL CO.
 Worcester, Mass. (See adv. index, end of
 book)

*Automobile Tanks & Mufflers

(See also Mufflers, Automobile; also Tanks)

SCAIFE, WM. B. & SONS CO., 221 1st
 av, Pittsburg, Pa. (See adv. index, end of
 book)

WILSON, F. CORTEZ & CO., 239
 Lake, Chicago, Ill. (See adv. index, end of
 book)

Automotoneers

Electric Service Supplies Co. (for Street Rail-
 way Controller), 1024 Filbert, Phila., Pa.

Awls (Ice)

(See Picks, Ice)

Awls (Scratch, Belt, Etc.)

Arcade Mfg. Co. (Wood Handle & "Serpentine"), Freeport, Ill.
 Bemis & Call Hardware & Tool Co., Springfield,
 Mass.
 Billings & Spencer Co. (Belt-Awls), Hartford,
 Conn.
 Braunsdorf-Muller Co. (Brad & Marking), Eliz-
 abeth, N. J.

Browne & Down Mfg. Co. (Scratch), Meriden,
 Conn.
 Buck Bros. Millbury, Mass.
 Dame, Stoddard & Co. (Scratch, Belt, etc.), 370
 Washington, Boston, Mass.
 Ducharmes & Co., Shelburne Falls, Mass.
 Eastham, Henry W., 150 Commercial, Lynn,
 Mass.
 Jennings, C. E. & Co. (Marking), 42 Murray,
 New York; Works, Chester, Conn.
 Johnson, Wm. (Hedenberg Works) (Belt,
 Scratch, etc.), Newark, N. J.
 Kraeuter & Co., Newark, N. J.
 Marlboro Awl & Needle Co., Marlboro, Mass.
 Mayhew, H. H. Co., Shelburne Falls, Mass.
 Millers Falls Co., 28 Warren, New York
 Mixer, J. W. Saw Tool Co., Plymouth, Mass.
 New England Specialty Co. (Brad Awls), North
 Easton, Mass.
 Peck, Stow & Wilcox Co., 27 Murray, New York
 Phoenix Hardware Mfg. Co. (Scratch only),
 Homer, N. Y.
 Stanley Rule & Level Co. (Scratch, Belt, etc.),
 New Britain, Conn.
 Stortz, Jno. & Co. (Scratch, etc.), Phila., Pa.
 Tuck Mfg. Co. (Marking, Brad, Scratch, Plain
 Belt, Eye Belt, Ice, etc.), Brockton, Mass.
 United Awl & Needle Co., W. Medway, Mass.
 Williams & Martin Mfg. Co. (Scratch), Deep
 River, Conn.

Awning Fixtures

Hartshorn-Stewart Co., Newark, N. J.
 Roe, Justus & Sons ("Roe's" Roller), Patchogue,
 N. Y.

Awning Fixtures (Blind)

Parker Wire Goods Co., Worcester, Mass.
 Wire Goods Co. ("North"), Worcester, Mass.

Awning Lines

(See Sash Cords)

Awning Stripes

(See Cotton Duck & Canvas.)

Awnings (Corrugated Steel)

(See also Cornices, Galvanized Iron.)

AMERICAN ROLLING MILL CO., Mid-
 dletown, O. (See adv. index, end of book)
BERGER MFG. CO., Main Office &
 Works, Canton, O. (See adv. index & branch
 offices, end of book)
EDWARDS MFG. CO., Eggleston av
 & 4th & 5th, Cincinnati, O. (See adv. in-
 dex & branch offices, end of book)
ELLER MFG. CO., 94 E 5th, Canton,
 O. (See adv. index, end of book)
 Gara, McGinley & Co., 23 S. 17th., Phila., Pa.
 Kansas City Roofing & Corrugating Co., Kansas
 City, Mo.
 Lewis, Henry B., 45 Jos Campau av., Detroit,
 Mich.

Mesker, Geo. L. & Co., Evansville, Ind.
 Mesker & Bro., 421 S. 6th, St. Louis, Mo.
MERRITT & CO., 1024 Ridge av.,
 Phila., Pa. (See adv. index, end of book)
MILWAUKEE CORRUGATING CO.,
 Milwaukee, Wis. (See adv. index, end of
 book)
 Ornamental Iron & Wire Co., Portsmouth, Va.
 Penn Metal Ceiling & Roofing Co., 23d &
 Hamilton, Phila., Pa.
SCAIFE, WM. B. & SONS CO., 221 1st
 av, Pittsburg, Pa. (See adv. index, end of
 book)
SMITH, F. P. WIRE & IRON WORKS,
 100 Lake, Chicago, Ill. (See adv. index,
 end of book)
 Wheeling Corrugating Co., Wheeling, W. Va.

*Awnings (Venetian)

WILSON, JAS. G. MFG. Co., Chief Of-
 fice, 3 W 29th, New York. Mills & Factory:
 Norfolk, Va. (See adv. index, end of book)

Awnings & Tents

(See Tents, Railroad Contractors')

Axe Mfrs.

American Axe & Tool Co., (Chopping, Broad,
 Boys, Firemen's, etc.), Glassport, Pa., &
 253 B'way, N. Y.

Bangor Edge Tool Co. (Peavy, Chopping, Stamp,
 Pole, Hunting, Last Block, Splitting, etc.),
 Bangor, Me.
 Billings, Geo. P., Clinton, Me.
 Black, H. B. & Co., Chester, Pa.
 Bradley's, G. W. Sons (Inc.) (Hand made, Dock
 Chopping, Ice, Post, Fire, Broad, etc.),
 Westport, Conn.

C. A. C. Axe Co., Holbrook, Mass.
 Colclesser Bros., El Dorado, Pa.
 Collins Axe Co., Holbrook, Mass.
 Collins Co., Collinsville, Conn., & 212 Water,
 N. Y.
 Dunn Edge Tool Co., Oakland, Me.
 Emerson-Stevens Mfg. Co., Oakland, Me.
 Evansville Tool Works (Broad, Hunters', Boys',
 Post Hole, Firemen's, etc.), Evansville, Ind.
 Findlay Axe & Tool Co., Findlay, O.
 Hammond, C. & Son (Boys' & Hunters'), Ogontz,
 Pa.
 Kelley, B. & Co., Belfast, Me.
 Kelly Axe Mfg. Co., Charleston, W. Va.
 King Axe Co., Oakland, Me.
 Mack & Co. ("D. R. Barton" Broad, Chopping,
 Fire, Ship, etc.), Rochester, N. Y.
 Mann, Jas. H., Lewistown, Pa.
 Mann, W. H., Mill Hall, Pa.
 Marble Safety Axe Co. (Pocket "Marble Safe-
 ty"), Gladstone, Mich.
 Munson Co., Grand Rapids, Mich.
 National Tubular Axle Co., Emigsville, Pa.
 North Wayne Tool Co. (Hand-made), Hallowell,
 Me.
 Norton Tool Co., West Park, O.
 Peck Edge Tool Co. (Broad, Fire, etc.), Cohoes,
 N. Y.

Peck, Stow & Wilcox Co., Southington, Conn.
 Phila. Steel & Iron Co., Fkd., Phila., Pa.
 Plumb, Fayette R., Tucker & P. R. R. Fkd.,
 Phila., Pa.
 Prouty, C. & Co. (Single & Double Bit), Eldred,
 Pa.
 Rixford Mfg. Co., East Highgate, Vt.
 Romer Axe Co., Dunkirk, N. Y.
 Standard Axe & Tool Works (Hand made),
 Ridgway, Pa.
 United States Edge Tool Co. (Single & Double
 Bit), Cattaraugus, N. Y.
 Warren Axe & Tool Co., Warren, Pa.
 White, L. & I. J. Co., 143 Perry, Buffalo, N. Y.
 Witham, G. S., Caratunk, Me.

Axes (Ice)

American Axe & Tool Co., Glassport, Pa., &
 253 B'way, New York.
ANDERSON FORGE & MACHINE CO.,
 271 Guoin, Detroit, Mich. (See adv. index,
 end of book)
 Bradley's, G. W. Sons (Inc.), Westport, Conn.
 Evansville Tool Works, Evansville, Ind.
 Gerlach, Peter Co., 1708 Columbus rd, Cleve-
 land, O.
 Gifford-Wood Co., Hudson, N. Y., & Arling-
 ton, Mass.
 Hubbard & Co., 62d & Butler, Pittsburg, Pa.
 Hiles, C. A. & Co., 14th & Western av, Chi-
 cago, Ill.
 Peck, Stow & Wilcox Co., Southington, Conn.,
 & 27 Murray, New York
 Stortz, John & Son, 210 Vine, Phila., Pa.
 United States Edge Tool Co., Cattaraugus, N. Y.
 White, L. & I. J. Co., Buffalo, N. Y.

Axes (Stone Workers')

ANDERSON, W. H. TOOL & SUPPLY
 Co., 14 Macomb, Detroit, Mich. (See adv.
 index, end of book)
 Beall Bros. (Inc.), Alton, Ill.
 Evansville Tool Works, Evansville, Ind.
 Hammond, C. & Son, Ogontz, Pa.
 Harvey, H. H., 608 Atlantic av, Boston, Mass.
 Hauck, Wm. J., 306 Southwest boul. Kansas
 City, Mo.
 Hubbard & Co., Pittsburg, Pa.
 Iron City Tool Works (Ltd.), 32d & Smallman,
 Pittsburg, Pa.
 Klein-Logan Co., S 13th & Breed, Pittsburg,
 Pa.
 Pittsburg Tool & Drop Forge Co. ("Cheswick"),
 Cheswick, Pa.

Axle Cutter & Screw Plate (Combined)

Holroyd & Co. ("Dalton"), Waterford, N. Y.

Axles (Automobile)

(See also Axles, Ball or Roller Bearing)

American Ball Bearing Co., Edgewater Park at
 L. S. & M. S. R'y, Cleveland, O.
 Billings & Spencer Co., Hartford, Conn.
 Carpenter Steel Co. (Nickel Chrome Steel),
 Case Mfg. Co., Columbus, O.
 City Machine & Mfg. Co., 9 Orchard, Detroit,
 Mich.
 Cleveland Axle Mfg. Co., Canton, O.

Consolidated Mfg. Co., Fernwood av & L. S. & M. S. R'y, Toledo, O.
Cramp, Wm. & Sons Ship & Engine Casting Co., Beach & Ball, Phila., Pa.
Diamond Chain & Mfg. Co., 260 W Georgia, Garford Co., Elyria, O.
Gill, P. H. & Sons Forge & Machine Works, Loralne & Otsego, Brooklyn, N. Y.
Hussey Drop Forge & Mfg. Co., Axtell & Osage, Cleveland, O.
Smith, A. O. Co., Clinton bet. Park & Va., Milwaukee, Wis.
Standard Roller Bearing Axle Co., N 48th av & Girard av, Philadelphia, Pa.
Timken Roller Bearing Axle Co., Canton, O.
Webster Mfg. Co., 1075 W 15th, Chicago, Ill.
Weston-Mott Co., Utica, N. Y.

Axles (Ball or Roller Bearing)

(See Wheels & Axles, Ball or Roller Bearing)

Axles (Car & Locomotive)

Akron Foundry Co. (Steel), Akron, O.
American Car & Foundry Co. (Car, Locomotive & Mine Car), 706 Chestnut, St. Louis, Mo., & 25 Broad, New York
Atlas Car & Mfg. Co. (Industrial Car Axles), Cleveland, O.
Baltimore Car-Wheel Co. (Car Only), Fulton Station, Baltimore, Md.
Bass Foundry & Machine Co. (Iron & Steel Car, Driving, etc.), Ft. Wayne, Ind.
Bethlehem Steel Co. (Nickel Steel, Car, Locomotive, etc.), South Bethlehem, Pa.
Bettendorf Axle Co., Davenport, Ia.
Block-Pollak Iron Co. (Car, Locomotive & Driving), First National Bank bldg, Chicago, Ill.
Boston Forge Co. (Tender, Truck & Driving), 340 Maverick, E. B., Boston, Mass.
Brill, J. G. Co. (Street Car), 62d & Woodland av, Phila., Pa.
Cambria Steel Co., Johnstown, Pa., & Arcade bldg, Philadelphia, Pa.
Carbon Steel Co. (Nickel Steel, Car, Locomotive, etc.), 32d & Smallman, Pittsburgh, Pa.
Carnegie Steel Co. (Car, Locomotive, etc.), General Offices: Carnegie bldg, Pittsburgh, Pa.
Central Foundry & Car Co., Irvona, Pa.
Cleveland City Forge & Iron Co. (Locomotive, Car, etc.), 67 Case av, Cleveland, O.
Cole Mfg. Co. (Locomotive & Street Car), Lakeport, N. H.
Crucible Steel Co. of America, Pittsburgh, Pa.
Dorner Truck & Foundry Co. (Street Car), Logansport, Ind.
Eastern Forge Co. (Car, etc.), Boston, Mass.
Georgia Foundry & Mach. Works (Street Car), Rome, Ga.
Gould Coupler Co. (Car & Locomotive), 1 W 34th, New York
Griffin Wheel Co., 138 Jackson bldg, Chicago
Gustafson Mfg. Co. (Mine Car), Chattanooga, Tenn.
Hockensmith Wheel & Mine Car Co., (Axles for Mine Cars), Irwin, Pa.
Jones, B. M. & Co. (The Tailor Iron), 81 Milk, Boston, Mass., & 143 Liberty, New York
Lehigh Car Wheel & Axle Works, Catasauqua, Pa.
Liggett Spring & Axle Co., Monongahela City, Pa.
Lockhart Iron & Steel Co. (Car, Driving, etc.), McKees Rocks, Pa.
Midvale Steel Co. (Nickel Steel, Locomotive, Tender, Truck & Car), Main Office & Works: Nicetown, Philadelphia, Pa.
New York Car Wheel Works (Cold Rolled), Buffalo, N. Y., & 11 B'way, New York
Otis Steel Co. (Locomotive, Car, etc.), Lake c Lawrence, Cleveland, O.
Peacock's Iron Works (Mine Car, etc.), Selma, Ala.
Penna Steel Co., Girard bldg., Phila., Pa.
Pittsburg Forge & Iron Co. (Locomotive, Car, etc.), 1003 Penna av, Pittsburgh, Pa.
Portland Co., Portland, Me.

Reading Iron Co. (Driving, etc.), Reading, Pa.
St. Louis Car Co. (Street Car), 8000 N B'way, St. Louis, Mo.
St. Louis Steam Forge & Iron Works (Locomotive, Car, etc.), East St. Louis, Ill.
Scott's Patent Brick Car Co. (Mine Car Only), Knoxville, Tenn.
Sheffield Car Co. (for all kinds of Light Cars), Three Rivers, Mich.
Sizer Forge Co. (Locomotive, Car, etc.), 38 Larkin, Buffalo, N. Y.
Standard Forging Co., Indiana Harbor, Ind.
Standard Steel Works (Car & Locomotive), Harrison Bldg., Philadelphia, Pa.
Taylor Iron & Steel Co. (Car, Locomotive, etc.), High Bridge, N. J.
Titusville Forge Co., Titusville, Pa.
Union Drawn Steel Co. ("Caronly"), Beaver Falls, Pa., & 460 Washington, New York
Vulcan Iron Works (Car & Locomotive), Wilkes-Barre, Pa.
Watt Mining Car Wheel Co. (Mine Car only), Barnesville, O.
Willard Sons & Bell Co., 98th & Erie, Chicago, Ill.

Axles (Carriage & Wagon)

(See also Axles of various kinds)

American Axle Works, 1116 Montgomery av, Phila., Pa.
American Tubular Axle Co. (Tubular Steel Wagon Axles only), Toledo, O.
Ansted Spring & Axle Co., Connersville, Ind.
Bailey, S. R. & Co., Amesbury, Mass.
Bettendorf Axle Co. (Wagon Only), Davenport, Iowa
Bloch Axle Co., Mobile, Ala.
Chicago Screw Co. (Ball Bearing), Chicago, Ill.
Cleveland Axle Mfg. Co., Canton, O.
Concord Axle Co. (& Wagon, also Brown's Roller Bearing Axles), Lenacook, N. H.
Connersville Axle Co. (Steel), Connersville, Ind.
Cook, Willis Miller, Mt. Carmel Centre, Conn.
Crucible Steel Co. of America, Frick bldg, Pittsburgh, Pa.
Dalzell Axle Co. (& Wagon), South Egremont, Mass.
Drummond Mfg. Co., Louisville, Ky.
Durant-Dort Carriage Co., Flint, Mich.
Gardner's F. Sons, Carlisle, Pa.
Grant Axle & Wheel Co. (Roller Bearings), Springfield, O.
Hay, Houston, Axle Co., Coshocton, O.
Hess Spring & Axle Co., Carthage, Cinn., O.
Higgins Spring & Axle Co., Racine, Wis.
Hutchinson, Jno. Mfg. Co. (Roller Bearing), Jackson, Mich.
Keagy & Lear Machine Co., Coshocton, O.
Keystone Axle Works, 33d & A. V. R'y, Pittsburgh, Pa.
Kinsley Iron & Machine Co. (Wagon only), Canton, Mass.
Lee & Porter ("Standard" Half Patent, "Concord" Express, "Collinge" Collar, "Porter" 2,500 Mile), Buchanan, Mich.
Lewis Spring & Axle Co., Jackson, Mich.
Liggett Spring & Axle Co., Monongahela City, Pa.
Meeker Mfg. Co. (Ball Bearing), Dayton, O.
Milton Mfg. Co., Milton, Pa.
Mulholland Co. (Ball Bearing), Dunkirk, N. Y.
Parry Mfg. Co., Indianapolis, Ind.
Pontiac Axle Co., Pontiac, Mich.
Scranton Axle Works, Scranton, Pa.
Sheldon Axle Co. (Anchor Brand), Wilkes-Barre, Pa.
Spears Axle Co., Wheeling, W. Va.
Standard Roller Bearing Co., 48th & Girard av., Philadelphia, Pa.
Union Drop Forge Co., Chicago, Ill.
Weston-Mott Co., Utica, N. Y.
Wilcox, D., Mfg. Co. (Bike, Wagon, etc.), Mechanicsburg, Pa.
Wood, Smith & Co., Chicago, Ill.
Wurster, F. W. & Co., 375 Kent av, Brooklyn, N. Y.

*Axles (Children's Carriage)

HEARTLEY MACHINE, VARIETY Iron & Tool Works, Toledo, O. (See adv. index, end of book)

Axles (Roller Bearing)

(See Axles, Ball or Roller Bearing.)

Axles & Shafts (Hollow)

Bethlehem Steel Co., South Bethlehem, Pa.
American Tubular Axle Co. (Carriage & Wagon, etc.), Toledo, O.

Babbitt Metal

(See also Bearings of various kinds.)

ALABAMA.

BIRMINGHAM—Ajax Metal Co., (of all kinds)

CALIFORNIA.

SAN FRANCISCO—Acme Metal Co., 52 Bluxome
Bay City Engineering & Supply Co., 322 Howard
Finn, Jno., Metal Works, 313 Howard.
Garratt, W. T. & Co., 140 Fremont
Great Western Smelting & Refining Co., 217
Pacific Metal Works, 153 1st
Selby Smelting & Lead Co., 416 Montgomery

COLORADO.

DENVER—Bogue Lead Co., 1810 Blake

CONNECTICUT.

BRIDGEPORT—Bridgeport Deoxidized Bronze
Rowell, W. G. Co. Metal Co.
Sanford, David C. Co.
HARTFORD—Blake, Edwin J.
NEW HAVEN—Graham, Jas & Co., 293 Wooster
Magnus Metal Co. (of Buffalo, N. Y.), 248 Cedar

ILLINOIS.

AURORA—Aurora Metal Co. (Brand "R. B.")
CAIRO—Reed, Joseph B.
CHICAGO—Blatchford, E. W. Co., 70 N Clinton
CARPENTER, GEO. B. & CO., 202
S Water. (See adv. index, end of book)
Channon, H. Co. ("Quoke"), 32 Market
Edna Smelting & Refining Co. (of Cincinnati, Ohio) (Porteous Graphite), Monadnock blk
Frictionless Metal Co. (of Chattanooga, Tenn.), 20 S Clinton
Great Western Smelting & Refining Co., 179 W Kinzie
Hewitt Mfg. Co., 303 Railway Ex.
Hoyt Metal Co. (of St. Louis, Mo.), 167 Dearborn
Illinois Smelting & Refining Works, 122 N Peoria
Kramer, H. & Co. (In Pig), 353 S Canal
MERCHANT & EVANS CO. (of Philadelphia, Pa.), 14 Michigan. (See adv. index, end of book)
Monarch Metal Co., 156 S Lincoln
National Lead Co., (of New York), 1510 State
Raymond Lead Co. (Aluminum, Copper, etc.), 51 W Lake
Ryan, J. J. & Co., 105 S Jefferson
U. S. Reduction Co. ("Advance" & "Anti-MMM"), 58 Law av

INDIANA.

MISHAWAKA—DODGE MFG. CO. (See adv. below)

KENTUCKY.

LOUISVILLE—Eagle Metal Co., 925 W Main
Louisville Smelting & Refining Co.
National Lead Co. (of New York), 101 9th



BABBITT METAL

for mill and factory service

Write for Prices to

BROOKLYN
BOSTON.

DODGE MANUFACTURING CO.

PITTSBURG NEW YORK

MISHAWAKA, IND.

CINCINNATI
PHILADELPHIA

CHICAGO ST. LOUIS

LOUISIANA.

NEW ORLEANS—Nelson, A. J. Mfg. Co. (Ltd.), 1001 Howard av
New Orleans Roofing & Metal Works, 926 Lafayette

MARYLAND.

BALTIMORE—**CODD, E. J. CO. (Jobbers)**, 700 S Caroline. (See adv. index, end of book)
Schultz, A. & Co. ("Eureka"), 1015 E Fayette
MERCHANT & EVANS CO. (Inc.) (of Phila., Pa.), 232 St. Paul. (See adv. index, end of book)

MASSACHUSETTS.

BOSTON—Blauy, Cyril C., 195 Devonshire
Chadwick-Boston Lead Co.
Goldberg & Rathman, 289 Commercial
Herrick Co., 49 Broad
Mowry & Phillips, 212 Camden
National Lead Co., (of New York), 57 Broad
Priest, Page & Co., 143 Franklin
Star Refining Co., 50 State
FITCHBURG—**HARDY, WILLIAM A. & Sons Co. ("S. S." Metal)** (See adv. index, end of book)
Welsh, E. J. & Co.
LOWELL—Nichols, Albert F.
WORCESTER—Kindred & Taylor

MICHIGAN.

DETROIT—Bostwick, Jas. M. Co., 372 Abbott
Duro Metal Co., ft Randolph
Muzzy-Lyon Co. ("Mogul"), 58 Woodward av
National-Fulton Brass Mfg. Co., 22 Brush
National Lead Co. (of New York), 81 W Woodbridge
Wing, J. T. & Co., 19 Woodward av
GRAND RAPIDS—Hayden, J. M. & Co.
KALAMAZOO—New Era Mfg. Co. ("Nickel-um") White Bronze)

MISSOURI.

KANSAS CITY—Kansas City Lead & Metal Works, 1407 Wyandotte
MERCHANT & EVANS CO. (Inc.) (of Phila., Pa.), Kansas City Life bldg. (See adv. index, end of book)
Rogers Metal Works
ST. LOUIS—Gilbert, A. & Sons Brass Foundry
Hiertz, Theo. Metal Co. ("Nonpareil"), 10th & Poepping
Hoyt Metal Co. ("Standard"), 325 Locust
More-Jones Brass & Metal Co., 3144 N B'way
National Lead Co., (of New York), 1001 Clark av
Rumsey, L. M. Mfg. Co., 806 N 2d

NEW JERSEY.

BELLEVILLE—Eastwood Wire Mfg. Co., ("Perfection")
BLOOMFIELD—Hudson Rolling Mill Co. ("Signal") Nickel Hardened Deoxidized Babbitt
HOBOKEN—Lehman Bros.
JERSEY CITY—Brady Brass Co., 200 10th
Magnus Metal Co. (of Buffalo, N. Y., Brunswick c 9th
Williams, E. A. & Son, 105 Plymouth
PERTH AMBOY—Hoyt Metal Co. (of St. Louis, Mo.)
RIVERSIDE—Riverside Metal Co. (Mo.)

NEW YORK.

BUFFALO—Case, W. A. & Son, 31 Main
Hofeller Smelting & Refining Co., 23 Illinois
LUMEN BEARING CO. (See adv. index, end of book)
Magnus Metal Co., Fidelity Trust bldg
National Lead Co. (of New York) ("Phoenix"), Clinton & Oak
Runskool Metal Co., 1095 Niagara
DEPEW—Magnus Metal Co. (of Buffalo, N. Y.)

NEW YORK CITY.**Borough of Brooklyn.**

BROOKLYN—Lissberger, Marks & Son ("Best"), 375 Driggs av
MERCHANT & EVANS CO. (Inc.) (of Phila., Pa.), 584 Flushing av. (See adv. index, end of book)
National Smelting & Refining Works (H. Heppenheimer, Prop.), 419 Marey av

Boroughs of Manhattan & Bronx

NEW YORK—Allan, A. & Son ("Allan's" Red Anti-Friction Metal), 486 Greenwich
American Metal Co., 52 B'way
Columbia Smelting & Refining Works, 366
Fahrig Metal Co., 316 Hudson West
Lissberger, Benjamin, 738 E 14th
Lissberger, Marks & Son ("Best"), 397 W 12th
Magnolia Metal Co. ("Adamant," "Defender" & "Mystic"), 113 Bank
Magnus Metal Co. (of Buffalo, N. Y.), 111 B'way
MERCHANT & EVANS CO. (Inc.) (of Phila., Pa.), 224 Pearl. (See adv. index, end of book)
Nassau Smelting & Refining Works ("Edison" & "Monarch"), 607 W 29th
National Lead Co. ("Phoenix"), 100 William
Ohio Brass Co. (of Mansfield, Ohio), 43 Exchange pl
Pittsburg White Metal Co. (of Pittsburg, Pa.), 160 Leroy
Post, E. L. & Co. ("Post's Zero," Motor Metal), 50 Cliff
Wildes, Thomas ("Excelsior" & "Semper Idem"), Linotype, Electrotpe, Stereotype, Autoplate & other metals, 246 Water
(END OF NEW YORK CITY.)

ROCHESTER—Clum & Atkinson
Genesee Metal Works, Hague & N Y C R R
Rochester Lead Works, 380 Exchange
Wray, Henry & Son, 193 Mill
SYRACUSE—Empire Metal Co.
TROY—Tesehan, L. A., 98 River

OHIO.

CINCINNATI—American Smelting & Refining Co., 9th & Freeman av
American Valve & Meter Co. ("Paragon"), 1121 Gest
Edna Smelting & Refining Co. (Porteuse Graphite), 525 Reading rd
McDonald, Jas. & Sons Co., 654 Main
McGowan, Jno. H. Co., 54 Central av
Morris, E. K. & Co., 315 W 2d
National Lead Co., (of New York), 7th & Freeman av
Powell, William Co., 2525 Spring Grove av
Van Duzee, E. W. Co. ("Buckeye"), 428 E 2d
Wolff Metal Co., 1803 John
CLEVELAND—Ideal Bronze Co., 1265 E 55th
Metal Sales Co. ("Renown"), Citizens bldg
National Lead Co., (of New York), Champlain, Junc. Canal
COLUMBUS—New Process Metal Co.
DAYTON—Buckeye Iron & Brass Works (High Grade)
Ebberts Bros., 916 E 3d
MANSFIELD—Ohio Brass Co.
YOUNGSTOWN—Falcon Bronze Co.

OREGON.

PORTLAND—Pacific Metal Works (of San Francisco, Cal.), 73 2d

PENNSYLVANIA.

ALLEGHENY—Damascus Bronze Co.
CHESTER—Crown Smelting Co.
ERIE—Erie White Metal Co.
PHILADELPHIA—Ajax Metal Co., 48 Riehm'd
Atlas Smelting & Refining Co., 1008 G'tn
Delaware Metal Refinery, 1036 S 18th av
Electrical Lead Reduction Co., 333 Walnut
Fullerton, Frank S., 438 E Girard av
Goldstein's, L. Sons, 1038 N Front
Hagstoz, T. B. Co. (Ltd.), 709 Sansom
King, Jno. Smelting Works, 1330 S 18th
Lewis, Jno. T. & Bros. Co., 231 S Front
Lukens, Thos. F. Metal Co. ("Lukens," "Viking," "Queen Bee"), 238 N 4th
McHatton Smelting Co., 1500 Washington av
MERCHANT & EVANS CO. (Inc.), 247 Water. (See adv. index, end of book)
North American Smelting Co., 900 Thompson
Pearl Smelting & Refining Works, 2507 E Cumberland
Peerless Smelting & Refining Co. ("Rainbow" Linotype, Monotype, Stereotype, Electrotpe & other metals)
Penn Smelting & Refining Co., 906 Filbert
Phillips, F. R. & Sons Co. ("Zero" & "Motor"), Penna bldg
Reeves, Paul S. & Son, 1415 Catharine
Rosenthal's, Joseph Sons., 192 Birks
Shimer, H. M. & Co., 19th e Wash'n av
Shoemaker, Edw. C., Penrose av e S 22d
Star Smelting & Refining Co., 134 Washington
Taylor, N. & G. Co., Mariner & Merchants bldg

U. S. Smelting Works, 1613 Spring Garden
White & Bro., 1504 E Wilt
Woodfall Bros., 1105 Fairmount av
PITTSBURG—Bailey-Farrell Mfg. Co., 3d av c Ross
Best Mfg. Co. (The "Eclipse"), 25th & A. V. R'y
Cadman, A. W. Mfg. Co. (Cadman's Aluminum), 2814 Smallman
Ft. Pitt Smelting & Refining Co., 339 5th av
Frictionless Metal Co. (of Chattanooga, Tenn.), 126 7th
Lawrenceville Bronze Co., Penn av & 31st
Pittsburg Brass Mfg. Co. ("Mansfield"), Penn av e 32d
Pittsburg White Metal Co., 3116 Penn av
WESTINGHOUSE ELECTRIC & Mfg. Co. (See adv. index & branch offices, end of book)

READING—Excelsior Brass Works

TENNESSEE.

CHATTANOOGA—Frictionless Metal Co.

VIRGINIA.

RICHMOND—Fictionless Metal Co. (of Chattanooga, Tenn.)
Glacier Metal Co.

WASHINGTON.

SEATTLE—Finn, Jno. Metal Works
Great Western Smelting & Refining Co. (of San Francisco, Cal.)
TACOMA—Puget Sound Metal Works

Babbitt Metal Melters

(See Furnaces, Babbitt Melting)

Babbitting Devices (Bearing)

Ridlon, Frank Co., 200 Summer, Boston, Mass.

Baggage Checks

(See Checks, Baggage; also Checks & Check Blanks, Brass.)

Bag Mfrs. (Paper)

Milwaukee Bag Co. (for Cement, Lime, etc.), Milwaukee, Wis.
Urschel-Bates Valve Bag Co. (for Cement, Lime, etc.), Toledo, O.
West Jersey Paper Mfg. Co. (for Cement, Lime, etc.), Camden, N. J.

Bag Mountings

Conlan, B. & Co., Newark, N. J.
Gould's, M. Son Co., 61 Hamilton, Newark, N. J.
Jeukinson, R. C. & Co., Newark, N. J.

Bags (Coal & Coke)

Ballou Mfg. Co. (& Canvas Baskets), Belding, Mich.
CARPENTER, GEO. B. & CO., 202 S. Water, Chicago, Ill. (See adv. index, end of book)

Coye, Charles A., Grand Rapids, Mich.
Lane, W. T. & Bro., Poughkeepsie, N. Y.
Van, O. Linda Mfg. Co., Youkers, N. Y.

Bags (Gas Engine)

Morgau & Wright (Inc.), 226 Jefferson av, Detroit, Mich.

Bags (Plumbers')

(See Tool Bags, Plumbers')

Bags (Striking, Rubber)

Cleveland Rubber Co., Cleveland, O.
Faultless Rubber Co., Akron, O.
Goodrich, B. F. Co., Akron, O.
Morgan & Wright (Inc.), 226 Jefferson av, Detroit, Mich.
Pure Gum Specialty Co., Barberton, O.

Bags & Bagging

(Those marked with a † make Bagging also.)
Adams Bag Co. (Cement, Flour, etc.), Chagrin Falls, O., & Caxton bldg, Cleveland, O.
†American Mfg. Co. (Jute Bagging), 138 Prince, New York
Ames & Harris (Inc.), Portland, Oreg., & San Francisco, Cal.

†Androscoggin Mills (Grain, etc.), Lewiston, Me.
 Bailey, Christopher & Son, 320 Market, Phila., Pa.
 †Bailey, John T. & Co. (Jute & Burlap, Bags & Bagging), S. Water & Morris, Phila., Pa.
 Bemis Bros. Bag Co. (Bags & Bagging), 601 S 4th, St. Louis, Mo.
 California Cotton Mills Co. (Cotton Bags), Oakland, Cal.
 California Jute Mill Co. (Grain, Sugar, Coffee & Wool Bags), 3 California, San Francisco, Cal.
 †Charleston Bagging Mfg. Co. (Cotton & Jute Bagging), Charleston, S. C.
 Cleveland-Akron Bag Co., Scranton av & Auburn, Cleveland, Ohio.
 Chase, H. & L. Bag Co. (Bags), 18 N Main, St. Louis, Mo.
 Chelsea Fibre Mills (Seamless Bags), 33 Union sq, New York
 Cherokee Falls Mfg. Co. (Seamless Grain Bags & Bagging), Cherokee Falls, S. C.
 Cincinnati Bag Co. (Cotton Seamless & Burlap), 2d & Walnut, Cincinnati, O.
 Collins Bag Co. (Jute & Cotton), 84 White, New York
 †Columbia Cotton Mill Co. (Seamless Bags & Bagging), Columbia, Tenn.
 Consolidated Cotton Duck Co. (Seamless Grain, etc.), Baltimore, Md.
 Continental Paper Bag Co., Whitehall bldg, New York
 †Dana Warp Mills (Grain Bags), Westbrook, Me.
 Delta Bag Co., New Orleans, La.
 Empire State Bag Co. (Flax & Jute Bags & Bagging), 742 Wythe av, Brooklyn, N. Y.
 †Franklinville Mfg. Co. (Seamless Bags & Bagging), Franklinville, N. Y.
 Friedlander, Julius & Co. (Cotton Bagging), Columbus, Ga.
 †Fulton Bag & Cotton Mills (Bags & Bagging), Atlanta, Ga.
 Golden Belt Mfg. Co. (Tobacco Bags, etc.), Durham, N. C.
 †Grahamton Mfg. Co. (Seamless Grain, etc.), Grahamton, Ky.
 †Gulf Bag Co., (Burlap), 330 Notre Dame, New Orleans, La.
 Halsted, E. S. & Co., 75 Pearl, N. Y.
 †Harmony Mills (Grain & Bagging, etc.), Cohoes, N. Y.
 Hardwood Mfg. Co., 101 S 3d av, Minneapolis, Minn.
 Hoffman-Corr Mfg. Co., 55 White, New York
 Iroquois Mfg. Co., 275 Main, Springfield, Mass.
 †Jackson Fibre Co. (Cotton Cloth for Bagging), Jackson, Tenn.
 King Mfg. Co. (Cotton, Burlap, etc.), Front & Main, Cincinnati, O.
 Kurtz Bag Co., 11 Coenties Slip
 Lake Superior Bag Co., Superior, Wis.
 Lane, J. H. & Co., 110 Worth, New York
 †Mente & Co., Board of Trade bldg, New Orleans, La.
 Millhiser Bag Co., Richmond, Va.
 Milwaukee Bag Co. Cotton Bags & Cotton Burlaps, Flour Sacks, Cement Bags, etc.), 208 S Water, Milwaukee Wis.
 Morgan & Hamilton Co., Nashville, Tenn.
 †Naomi Falls Mfg. Co. (Seamless Grain, Salt, etc.), Randleman, N. C.
 Neahr, M. J. & Co., 89 S. Clinton, Chicago, Ill.
 Neville & Co. (Inc.), 530 Davis, San Francisco, Cal., & Portland, Ore.
 Noon, W. C. Bag Co. (Grain, etc.), Portland, Ore.
 †Odell Mfg. Co. (Seamless Bags & Bagging), Concord, N. C.
 Peru Bagging Mfg. Co. (Jute Bagging), Peru, Ind.
 Raymond Bag Co. (Cotton), 317 John, Cincinnati, Ohio
 Riegel Sack Co. (Jute), Jersey City, N. J.
 Royal Bag & Yarn Mfg. Co. (Seamless & Flour Bags), Charleston, S. C.
 Sherman Cotton Mills (Seamless Grain Bags), Sherman, Tex.
 †Stark Mills (Grain Bags; also Bagging, etc.), Manchester, N. H.
 State Penitentiary Jute Mill (Jute Bags, etc.), Walla Walla, Wash.
 Tarentum Paper Mills, Pittsburg, Pa. Mills, Tarentum, Pa.
 †Tennessee Mfg. Co. (Seamless Grain), Nashville, Tenn.
 Walker, J. H. Co., Louisville, Ky.
 †Willard Bag & Mfg. Co. (Burlap & Cotton Bags & Bagging), Wilmington, N. C.
 Washington State Penitentiary (Burlap & Grain Bags), Walla Walla, Wash.
 Worth Mfg. Co. (Seamless), Worth, N. C.

Bails (Universal)

Albree, Chester B. Works, Allegheny, Pa.

Balances (Assay & Analytical)

Ainsworth, Wm. & Sons, Denver, Colo.
 Denver Balance Co., Denver, Colo.
 Eimer & Amend, 205 3d av, New York
 Fairbanks Co., 186 Lafayette, New York
 Kohlbusch, Herman, 194 B'way, New York
QUEEN & CO. (Inc.), n. w. c 8th & Arch, Philadelphia, Pa. (See adv. index, end of book)
 Salt Lake Hardware Co. ("Keller"), Salt Lake City, Utah
 Thompson Balance Co., 1717 Arapahoe, Denver, Colo.
 Troemner, Henry, 911 Arch, Phila., Pa.
 Volland & Sons, New Rochelle, N. Y.

Balances (Spring)

American Cutlery Co., 193 Mather, Chicago, Ill.
 Bridgeport Brass Co., Bridgeport, Conn.
 Chatillon, Jno. & Sons, 85 Cliff, New York
 Forschner, Chas. & Sons, 206 E 19th, New York
 Landers, Frary & Clark, New Britain, Conn.
 Peck Stow & Wilcox Co., Southington, Conn.
 Pelouze Scale & Mfg. Co., 118 W Jackson boul, Chicago, Ill.
 Sargent & Co., 151 Leonard, New York

Ball Retainers

Sartus Ball Bearing Co., 155 Spring, New York
 Star Ball Retainer Co., Lancaster, Pa.

*Ballast Balls for Buoys

BETHLEHEM FOUNDRY & MACHINE Co., Front, South Bethlehem, Pa., & 149 B'way, New York. (See adv. index, end of book)

Ballast Loaders & Unloaders

Beatty, M. & Sons, Welland, Ontario, Can.
FAIRBANKS, MORSE & CO., Frank-lin & Monroe, Chicago, Ill. (See adv. index & branch offices, end of book)
LIDGERWOOD MFG. CO., 96 Liberty, New York, & Old Colouy bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
 McMyler Mfg. Co., Cleveland, O.
 Marion Steam Shovel Co., Marion, O.
SHAW, WILLIS, 171 LaSalle, Chi-cago. (See adv. index, end of book)
 Vulcan Iron Works Co., Toledo, O.

Ballast Placing Device

Walters & O'Kell ("Walker"), Fort Madison, Iowa

*Ballast Plants

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

Ballast (Railroad)

(See Stone, Crushed.)

Ballot Boxes (Steel & Wood)

(See also Election Booths)

American Steel House Co., 796 11th av New York
 Pennsylvania Construction Co. (Wood only), Marietta, Pa.

*Balls (Basket)

NARRAGANSETT MACHINE CO., Providence, R. I. (See adv. index, end of book)

Balls (Brass)

American Ball Co., Providence, R. I.
 Draper Mfg. Co. (Solid or Hollow, for Valves, etc.), Port Huron, Mich.
 Jones, E. J. Co. (also Bronze), Arlington Heights, Mass.
LUNKENHEIMER CO., General Of-fice & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)
 Midland Brass Works, Fort Worth, Texas.
 Standard Roller Bearing Co., N 48th & Girard av, Phila., Pa.

UNION EQUIPMENT AND BRONZE CO.

(Ball Fittings for Rails), 520 W 36th, New York. (See adv. outside stencil)

*Balls (Fall Line)

DOBBIE FOUNDRY & MACHINE CO. (Plain & With Hook), Niagara Falls, N. Y. (See adv. index & branch offices, end of book)

*Balls for Ball Mills

ALLIS-CHALMERS CO. (Forged Steel), Milwaukee, Wis. (See adv. index & branch offices, end of book)

Balls (Glass)

Bache, Semon & Co., West & Hubert, New York

Balls (Golf)

BOSTON BELTING CO., 260 Devon-shire, Boston, Mass. (See adv. index & branch offices, end of book)

Davidson Rubber Co., Boston, Mass.
 Goodrich, B. F. Co. ("Haskell" Rubber Cored), Akron, O.
 Goodyear Tire & Rubber Co., Akron, O.
 Worthington Mfg. Co., Elyria, O.

Balls (Hollow)

Draper Mfg. Co. (Brass, for Valves, etc.), Port Huron, Mich.
 Johnston & Sharp Mfg. Co. (Crucible Steel, Self-Lubricating), Ottumwa, Ia.

Balls (Pipe & Flue)

Adams, S. Jarvis, Co., Etina & 14th, Pittsburg, Pa.

Balls (Steel)

American Ball Co., Providence, R. I.
 Brecher, E. A. Co., 95 Reade, New York
 Excelsior Steel Ball Co., Tonawanda, N. Y.
 Jones, E. J. Co., Arlington Heights, Mass.
NOVELTY TURNING CO., Norway, Me. (See adv. index, end of book)
 Standard Roller Bearing Co., N 48th & Girard av, Phila., Pa.
 Steel Ball Co., 840 Austin av, Chicago, Ill.
 Transue & Williams Co. (from 2 inches up), Alliance, O.
 Wyman & Gordon (Unfinished), Worcester, Mass.

Balls (Wood)

American Enamel Co. (Plain & Enameled), Providence, R. I.
 Estes, E. B. & Sons, 45 John, New York
 Hyde-Murphy Co., Ridgway, Pa.
 Jones, E. J. & Co., Arlington Heights, Mass.
 McMillan's, W. H. Sons (Ten Pin), 153 South, New York
 Rowe, Henry Mfg. Co., Newaygo, Mich.

*Balls (Zinc)

EDWARDS MFG. CO., Eggleston av & 4th & 5th, Cincinnati, O. (See adv. index & branch offices, end of book)

Bands (Boom)

Tiebout, W. & J., 118 Chambers, N. Y.
 Wilcox, Crittendon & Co. (Adjustable Goose Neck, etc.), Middletown, Conn.

Bands (Brake)

Auto Supply Co., 1733 B'way, New York
 Columbia Steel Co., Elyria, O.
CROSBY CO., 171 Pratt, Buffalo, N. Y. (See adv. index, end of book)
 Globe Machine & Stamping Co., 3900 Hamilton av, N E, Cleveland, O.
 Neustadt Auto & Supply Co., 826 S 18th, St. Louis, Mo.
 Royal Equipment Co. ("Raymond"), Bridgeport, Conn.
 Smith, A. O. Co., Park, Clinton & Virginia, Milwaukee, Wis.
 Standard Welding Co. (Steel), Central av & 70th, S E, Cleveland, O.
 Whipple, R. W., Binghamton, N. Y.
WORCESTER PRESSED STEEL CO., Worcester, Mass. (See adv. index, end of book)

Bands (Brass)

Waterbury Brass Goods Corporation (Fancy & Perforated), Waterbury, Conn.

Bands (Brush)

Lathrop, F. B. South Acton, Mass.

Bands (Hose)

Halstead, Charles L., La Crosse, Wis.
Hudson Parer Co., Lcominster, Mass.
Phoenix Hardware Mfg. Co., Homer, N. Y.
Sherman, H. B. Mfg. Co., Battle Creek, Mich.
Yerdon, William, Fort Plain, N. Y.

Bands (Shingle & Box)

Cannonsburg Iron & Steel Co. ("Boss" Steel),
421 Wood, Pittsburg, Pa.

CARPENTER, GEO. B. & CO., 202 S.
Water, Chicago, Ill. (See adv. index, end of book)

CARY MFG. CO., 19 Roosevelt, New
York. (See adv. index, end of book)

De Haven Mfg. Co., 50 Columbia Heights,
Brooklyn, N. Y.

Eureka Metal Box Strap & Mfg. Co., Rochelle,
Ill.
National Mfg. Co., Allegheny, Pa.

Ohio Galvanizing & Mfg. Co. (Shingle), Niles,
Ohio.
Paton, J. & Co. (Iron & Steel), Cleveland, O.
Zelnicker, Walter A. Supply Co. ("Zelnicker",
Cold Rolled Steel), 408 N 4th, St. Louis,
Mo.

***Bank Safes (Patent Screw Door)**

HALL'S SAFE CO., Main Office &
Works, Spring Grove av, Cincinnati, O.
(See adv. index, end of book)

Bank Vaults

Barnes Safe & Lock Co., 325 3d av., Pittsburg,
Pa.

Baum, J. Safe & Lock Co., Cincinnati, O.
Cary Safe Co., Chicago & Scott, Buffalo, N. Y.

Cornell, J. B. & J. M. Co. ("Burglar Proof"),
26th & 11th av, New York

Diebold Safe & Lock Co. (Burglar & Fire-
Proof), Canton, O., & 30 Reade, New York

HALL'S SAFE CO., Main Office &
Works, Spring Grove av, Cincinnati, O.
(See adv. index, end of book)

Herring-Hall-Marvin Safe Co., Hamilton, O., &
400 B'way, New York

Macneale & Urban Co., Hamilton, O.
Manganese Steel Safe Co., Plainfield, N. J.

Meyer, L. A. Co., 448 E Water, Milwaukee,
Wis.

Miller, L. H. Safe & Iron Works, Baltimore,
Md.

Morris-Ireland Safe Co., 64 Sudbury, Boston,
Mass.

Mosler Safe Co., Main Office & Works, Hamil-
ton, O.

National Safe & Lock Co., 13 Craw av, Cleve-
land, O.

Remington & Sherman Co., 359 B'way, New
York

Stewart Jail Works Co., 716 E 3d, Cincinnati,
O.

Stuart Jail Works Co., Cincinnati, O.
Trumbull Safe & Vault Co., 117 Lake, Chicago,
Ill.

Victor Safe & Lock Co., 326 E 8th, Cincin-
nati, O.

Waltz Safe & Lock Co., 111 Market, San Fran-
cisco, Cal.

Western Iron Works, 123 Beale, San Francisco,
Cal.

York Safe & Lock Co., York, Pa.

Bank & Office Fixtures (Metallic)

Armor Clad Mfg. Co., Canton, O.
Art Metal Construction Co., Jamestown, N. Y.

BERGER MFG. CO., Main Office &
Works, Canton, O. (See adv. opp. next
page; branch offices, end of book)

Camburn, J. C. & Co., Chicago, Ill.
CANTON ART METAL CO., Canton, O.
(See adv. index, end of book)

ELLER MFG. CO., Canton, O. (See
adv. index, end of book)

GENERAL FIREPROOFING CO.
("Allsteel"), Youngstown, O., & 156 5th av,
New York. (See adv. index & branch offices,
end of book)

Krag Imperial Cabinet Co., 816 Fulton, Chicago,
Ill.

Library Bureau, 530 Atlantic av, Boston, Mass.

Office, Bank & Library Co., 157 Summer, Bos-
ton, Mass., & 102 Fulton, New York
Ohnstrand Metal Furniture Co., Jamestown,
N. Y., & 5 E 42d, New York



Every Article Bearing this
Trade Mark has Distinctive
Merit in Craftsmanship
and Artistic Finish.

UNION EQUIPMENT AND BRONZE CO.

514-520 WEST 36TH ST. NEW YORK

**COMPLETE INTERIORS FOR BANKING
BUILDINGS: CATALOGUE DE LUXE.**

Van Dorn Iron Works Co., 2685 E 79th, Cleve-
land, O.

**Bank & Office Railings
CALIFORNIA.**

LOS ANGELES—Bailey Ornamental Iron Co.,
Biescar Bros. 108 Ord

Fruhling, Wm. A., 218 E 4th
Jones, Jas. Co., 119 College

Niederer, J. Co., Main & Jefferson
WINSLOW BROS. COMPANY (Iron,
Brass & Bronze), Union Trust bldg. (See
adv. index, end of book)

OAKLAND—White-Frauneder Iron Works
SAN FRANCISCO—California Artistic Metal &
Wire Co., 539 Mission

Garratt, W. T. & Co., 138 Fremont
Ralston Iron Works, 222 Howard

Sperry Iron & Wire Works, 735 Mission
West Coast Wire & Iron Works, 17 Fre-
mont

Western Wire Works, 751 Mission
WRIGHT WIRE CO., 97 Fremont.
(See adv. index, end of book)

COLORADO.

DENVER—Frazier-Pearce Fixture Co., 1401
Wazee

Grauman-Riley Fixture Co.
Jackson-Richter Iron Works Co.

Pioneer Iron & Wire Works Co., 1437 Mar-
ket

White Bros. Mfg. Co. (Successors to The
Denver Iron & Wire Works Co.), Office,
Continental bldg. Works: W 12th & S 4th

CONNECTICUT.

BRIDGEPORT—Barnes, T. M., 232 Stratford
Booth, R. G. & Co., 23 Crescent av

HARTFORD—Howard, James L. & Co., 438
Asylum

MERIDEN—**BRADLEY & HUBBARD**
Mfg. Co. (See adv. index, end of book)

NEW HAVEN—Burgess, Edw. A. (Est. of), 67
Smith, Edw. F. & Co., 29 Crown Court

Yale Safe & Iron Co., 52 Richards, W. H.
PLAINVILLE—Elm City Brass & Rivet Co.

GEORGIA.

ATLANTA—Atlanta Wire & Iron Works Co.,
Empire bldg

ILLINOIS.

AURORA—Love Bros. (Inc.)
CHICAGO—American Iron & Wire Works, 575
Carroll av.

Barbee Wire & Iron Works, 44 Dearborn
Booth, John Wire & Iron Works, 37 Indiana

Central Architectural Iron Works, (Inc.),
4103 La Salle

CHICAGO ORNAMENTAL IRON
Co., 37th c Stewart av. (See adv. index,
end of book)

Gilbert & Bennett Mfg. Co., 153 Lake
HALSTED, JOS. CO., 388 W Ran-
dolph. (See adv. index, end of book)

Heath-Johnson Co., 141 Ontario
HICKEY, M. H. WIRE & IRON
Works, 54 Dearborn

LANDON, E. R. IRON & WIRE
Works, 1243 Fillmore. (See adv. index,
end of book)

Purcell, N. F. & Co., 232 S Clinton
SMITH, F. P. WIRE & IRON
Works, 100 Lake. (See adv. index, end
of book.)

Standard Co., W 15th & Laflin
Turner Brass Works, Franklin c Michigan

UNION EQUIPMENT AND BRONZE CO.

135 Adams. (See adv. outside stencil)

Voss, Fred'k., 617 Austin av., Chicago, Ill.
WINSLOW BROS. COMPANY (Iron,
Brass & Bronze), 2515 W Harrison. (See
adv. index, end of book)

EDWARDSVILLE—Edwardsville Brass Co.

QUINCY—Van Dorn Co.

ROCKFORD—Andrews Wire & Iron Works

INDIANA.

EVANSVILLE—Mesker, Geo. L. & Co. (Wire &
Iron)

INDIANAPOLIS—Central Wire & Iron Works,
28 E Georgia

Inland Novelty Iron & Wire Works, 208 S
Penn

Langsenkamp Bros. Brass Works, 138 E
Rock, Tobias, 225 E Pearl Georgia

LAFAYETTE—Barbee Wire & Iron Works
RICHMOND—Chandelier & Art Brass Works

TERRE HAUTE—Up-to-Date Mfg. Co.

IOWA.

DES MOINES—Central Iron Works, 118 Grand
av

DUBUQUE—Trenk Wire Works, Iowa c 4th

KENTUCKY.

LOUISVILLE—Champion Iron & Wire Works,
Dow Wire & Iron Works 1115 Underhill

Imperial Wire, Iron & Roofing Co., 221 W
Market

Kentucky Wire Works, 120 W Market
Snead Architectural Iron Works

LOUISIANA.

NEW ORLEANS—**WINSLOW BROS.**
Company (Iron, Brass & Bronze), Hennen
bldg. (See adv. index, end of book)

MAINE.

PORTLAND—Megquier & Jones Co.

MARYLAND.

BALTIMORE—Balderston, H. & Son, 319 Pearl
Dufur & Co., 311 N Howard

Meiser, H. & Son, 210 Clay
Stidman & Co., 16 N Frederick

WINSLOW BROS. COMPANY.
Equitable bldg. (See adv. index, end of
book)

MASSACHUSETTS.

BOSTON—Bay State Brass Foundry, 155 A, S B
Dow, F. R., 19 Province

Hub Wire Cloth & Wire Work Co., 13
Devonshire

Morss & Whyte Co., 75 Cornhill
Murdoch, Shaw Corporation, 125 Federal

NATIONAL MFG. CO., 75 Equit-
able bldg. (See adv. index, end of book)

Whyte, Oliver & Co., 17 Cornhill
LOWELL—Rice & Co., 251 Mt. Vernon

SPRINGFIELD—BIGELOW CHENEY
Wire Works. (See adv. index, end of
book)

Emory, P. P. Mfg. Co., 48 Hampden
WORCESTER—Dean, H. E. & Co., 180 Austin

NATIONAL MFG. CO. (See adv. index,
end of book)

WRIGHT WIRE CO. (See adv. in-
dex, end of book)

MICHIGAN.

DETROIT—Acme Fancy Wire Works, Canfield
av c Moran

Advance Wire & Iron Mfg. Co., 381 Mich.
AMOS, CHARLES & CO., 94 W
Larned. (See adv. index, end of book)

Art Brass & Wire Works, Forest av & El-
Barnum, E. T. Wire & Iron Works lery

BOLLES, J. E. IRON & WIRE
Works, 4th av & Porter. (See adv. index,
end of book)

De Croupet Iron Works, 127 Brush
Detroit Wire & Iron Works, 1259 Military av

Inglis, Wm. Iron & Wire Works, 59 Wood-
bridge, E.

Majestic Wire Fence Co., 196 Congress W.
Phoenix Wire Works, 68 Champlain

VULCAN CO. (See adv. index, end
of book)

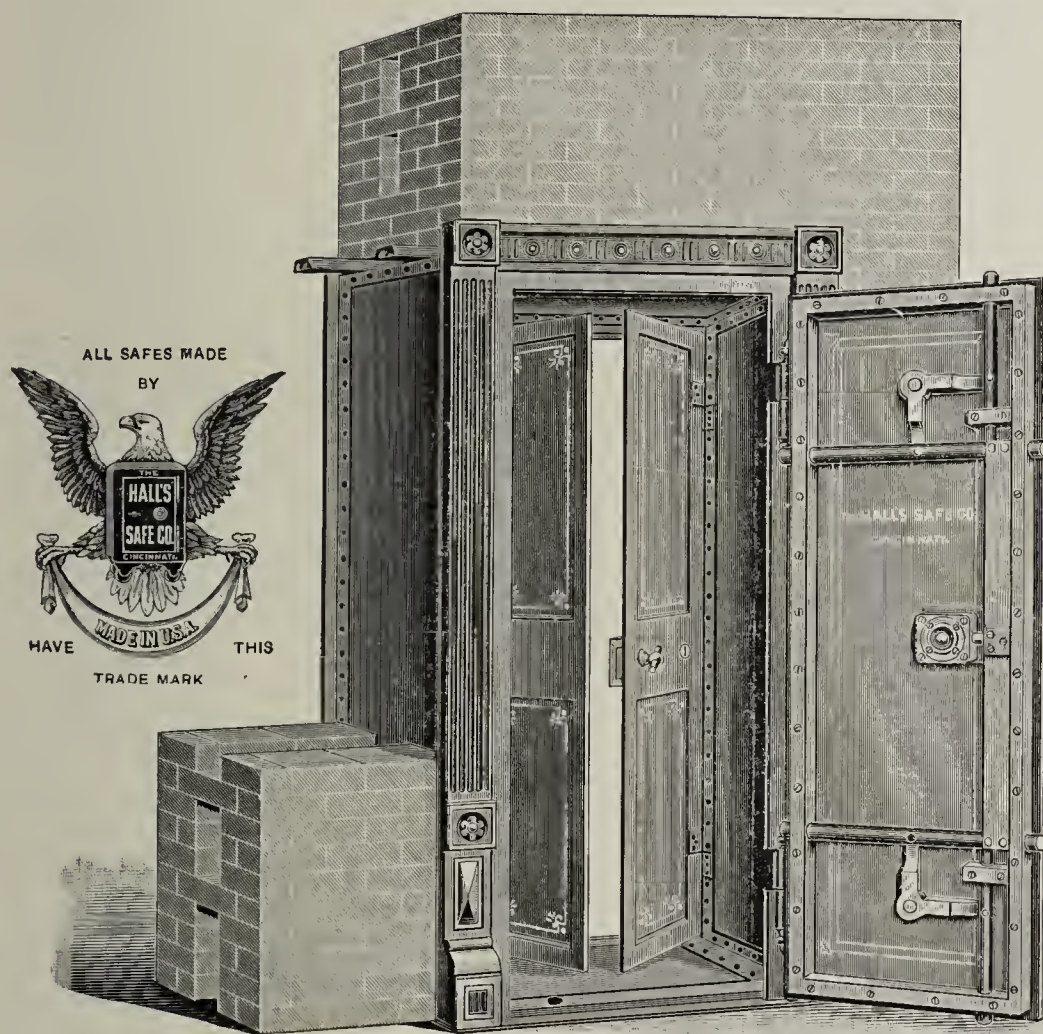
HIGH-GRADE FIRE-PROOF SAFES

WITH AND WITHOUT

BANKERS' CHESTS, STEEL LININGS AND INTERIORS.

PATENT SCREW-DOOR BANK SAFES. EXPORT AND COIN SAFES. EXPRESS MESSENGER BOXES
VAULT FRONTS AND DOORS. BANK AND SAFETY DEPOSIT VAULTS.
SAFETY DEPOSIT BOXES, ETC.

DRAWINGS AND ESTIMATES FURNISHED ON APPLICATION.



Above Cut represents a sectional view of our Fire-Proof Brick Vault, showing
Vault Front or Doors partly bricked in.

The HALL'S SAFE COMPANY

3253 to 3269 Spring Grove Avenue,

CINCINNATI, OHIO, U. S. A.

P. O. BOX 846.

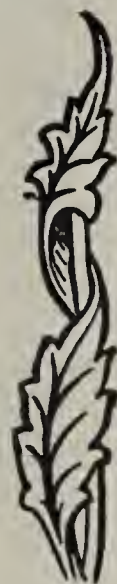
"Quality" Steel Furniture



Is made by a firm with an experience of twenty-eight years in the sheet metal business. We are prepared to furnish anything in STEEL FURNITURE and OFFICE EQUIPMENT, from plans and specifications, or from stock designs.

¶ Let us figure with you on Card Index Cabinets, Document and Vertical File Cabinets, Roll and Flat Top Desks, Tables, Lockers, Vault Omnibuses and Bank and Vault Equipment.

¶ We have a reputation for good work. Book of "Quality Products", on request.



The Canton Art Metal Company

EASTERN BRANCH, 25 Ann Street, corner Nassau St., NEW YORK.

CANTON, OHIO.

MINNESOTA.

MINNEAPOLIS—Flour City Ornamental Iron Works, 2637 S 27th av
ST. PAUL—Herzog Iron Works
Perkins Mfg. Co., University av c Fairview
Twin City Iron & Wire Works, 106 E 5th

MISSOURI.

KANSAS CITY—Central Brass Works Wyandotte c S W boul
Kansas City Wire & Iron Works, 1428 Oak
Kleeman, Trotter & Co., 1327 Main
Ponick, Martin, 918 E 12th
Tilk, Frank, 213 W 19th
ST. LOUIS—Lasar-Letzig Mfg. Co., 1313 N 16th
Pullis, T. R., 821 Chestnut
St. Louis Wire & Iron Co., 520 Chouteau av

NEBRASKA.

OMAHA—Adams & Kelly Co.
Champion Iron & Wire Works
Hlavka, Jno., 1216 Harney

NEW JERSEY.

NEWARK—Froelich, A., 374 Market
Gould's, M. Sou & Co. (Brass & Bronze), 61
Storsberg, Fritz, 20 Atlantic Hamilton

NEW YORK.

ALBANY—Campbell, Harry E. Co.
Spalt, George, 904 B'way
BINGHAMTON—Titchener, E. H. & Co., S Spring
BROOKLYN—(See New York City, Borough of Brooklyn)
BUFFALO—BUFFALO WIRE WORKS
Co. (Also Screens), 316 Terrace. (See adv. index, end of book)
Sanford, Thomas F., 193 Seneca
ELMIRA—Bantley, Constantine E., 5th c Madison av
MOUNT VERNON—HENRY-BONNARD
Bronze Co. (See adv. index, end of book)

NEW YORK CITY.**Borough of Brooklyn.**

BROOKLYN—AJAX IRON & WIRE CO.,
75 York. (See adv. index, end of book)
Durst, Wm., 4 Water
Federal Brass & Bronze Co., 1133 B'way
Grosback, Wm. & Co., 37 Maspeth av
Hecla Iron Works, 118 N 11th
McMurray, Wm. H., 365 Harman
Mills, W. J., 639 Kent av

Boroughs of Manhattan & Bronx

NEW YORK—American Brass Fixture Works
(Brass & Bronze), 8 Howard
Bataille, Achille & Co., 587 Hudson
CABARET, PAUL E. & CO.
(Bronze), 342 W 14th. (See adv. index, end of book)
Cabbie, Wm., Excelsior Wire Mfg. Co., 43
Fulton
Empire Brass & Metal Works, 290 B'way
ESTEY WIRE WORKS CO., 59
Fulton. (See adv. index, end of book)
Federal Brass & Bronze Co., 1133 B'way
Fiske, J. W. Iron Works, 39 Park pl
Gould's, M. Son & Co. (Brass Bronze), 83
Reade
Hecla Iron Works. (See Borough of Brooklyn)
HENRY-BONNARD BRONZE CO.,
5 E 42d. (See adv. index, end of book)
Hopkins & Co., 198 W B'way
Howard & Morse, 45 Fulton
JACKSON, WM. H., COMPANY
(Bank Counter Screens a Specialty), 29 E
17th (Union square. (See adv. index, end of book)
Koehn, Alfred, 159 W 29th
Lobel-Andrews Co., 531 55th
Manhattan Brass Co., 334 E 28th
NATIONAL MFG. CO., 103 Chambers.
(See adv. index, end of book)
New York Brass & Wire Works Co., 177
Grand
PITT, WM. R. COMPOSITE IRON
Works, 136 W 24th. (See adv. index, end of book)
Richey, Browne & Donald, 1 Madison av
Sheppard & Stolp, 20 Fletcher
Stikeman, George Metal Works, 38 Park row
Thompson, Hervey, 176 E 119th



Every Article Bearing this
Trade Mark has Distinctive
Merit in Craftsmanship
and Artistic Finish.

UNION EQUIPMENT AND BRONZE CO.
514-520 WEST 36TH ST. NEW YORK
COMPLETE INTERIORS FOR BANKING
BUILDINGS: CATALOGUE DE LUXE.

Westervelt, A. B. & W. T., 102 Chambers
Williams, George A. & Sons, 85 Fulton
Williams, John, 556 W 27th
WINSLOW BROS. COMPANY (Iron,
Brass & Bronze), 160 5th av. (See adv. index, end of book)

Borough of Queens

MASPETH—Richey, Browne & Donald
(END OF NEW YORK CITY)
ROCHESTER—Snow Wire Works Co., 76 Exch
White Wire Works Co., 47 Exchange
SYRACUSE—Syracuse Wire Works, 315 E
TROY—Coons, Fred W., 427 River Water

OHIO.

AKRON—Ornamental Iron Works Co.
CANTON—COLUMBIA IRON & WIRE
Works Co. (See adv. index, end of book)
CINCINNATI—CINCINNATI MFG. CO.,
1243 W 6th. (See adv. index, end of book)
KAMMAN, WALTER, Front &
Lawrence. (See adv. index, end of book)
Kinsley, John R., 115 E 6th
Schreiber, L. Sous & Co., 8th & Eggleston
CLEVELAND—FOREST CITY STEEL &
Iron Co., 10 Ramsey. (See adv. index, end of book)
Standard Wire & Iron Co., Leonard &
TYLER, W. S. CO. (See adv. index, end of book)
Van Dorn Iron Works Co., 2685 E 79th
COLUMBUS—Columbus Elevator & Machine
Co., Curtis & Jefferson avs
COLUMBUS WIRE & IRON WORKS
Co. (See adv. index, end of book)
Columbus Brass Co., 94 N 6th
DAYTON—CITY FORGE & IRON WKS
(Andrew Plocher, Prop.). (See adv. index, end of book)
HAMILTON—Meyers, Fred J. Mfg. Co.
SPRINGFIELD—Bayley, Wm. Co.
TOLEDO—DONOVAN WIRE & IRON
Co. (See adv. index, end of book)
Seeger, Valentine, 15 St. Clair
Toledo Wire & Iron Works

OREGON.

PORTLAND—Carlson, August, 289 E Morrison
Portland Wire & Iron Works
Tuerck, I. K., Davis c 9th

PENNSYLVANIA.

ALLEGHENY—BAKER MFG. CO., Allegheny & South avs. (See adv. index, end of book)
Hanny, Chas. G. & Co., 856 North av, W. A.
PHILADELPHIA—Belmont Iron Works, 22d & Wash av
DARBY, EDW. & SONS CO., 239 Arch. (See adv. index, end of book)
Gensel, Fred & Co., 911 Vine
Giese & Goodyear Co., 260 S 5th
Halstead & Co., 1129 Cherry
MERRITT & CO., 1024 Ridge av. (See adv. index, end of book)
Midland Metal Co. (Inc.), 1427 Catherine
Nacke, A. & Son, 236 S 9th
Pettit, Frank, 809 Master
REMPPIIS, WM. F. CO., 1506 Sansom. (See adv. index, end of book)
PITTSBURG—Cornwall, E. & Co., 709 Sarah
McKenna Bros. Brass Co. (Brass), 1st av & Ross
Phoenix Steel Co. (Inc.), Putnam & P. R. R.
Pittsburg Brass Mfg. Co., Penn av & 32d
TAYLOR & DEAN, 205 Market. (See adv. index, end of book)

UNION EQUIPMENT AND BRONZE CO.

Times bldg. (See adv. outside stencil)

WINSLOW BROS. COMPANY (Iron, Brass & Bronze), Peoples National Bank bldg. (See adv. index, end of book)
READING—REMPPIIS, WM. F. CO. (See adv. index, end of book)

RHODE ISLAND.

PROVIDENCE—What Cheer Wire Works, 157 Dorrance

VIRGINIA.

PORTSMOUTH—Ornamental Iron & Wire Co. (Inc.)

WASHINGTON.

SEATTLE—Seattle Iron Works, 2000 Western av

WEST VIRGINIA.

WHEELING—Architectural Iron & Wire Wks
Harris, P. S.

WISCONSIN.

MILWAUKEE—Colnik, C. Mfg. Co., 221 8th
Globe Wire & Iron Works, Atkinson av. bet. 10th & 11th
Loeffelholz Co., 170 Clinton
Wagner, A. F., 514 Market
WISCONSIN IRON & WIRE WKS,
190 E Water. (See adv. index, end of book)

***Bank & Safety Deposit Vaults**

HALL'S SAFE CO., Main Office & Works, Spring Grove av, Cincinnati, O. (See adv. index & branch offices, end of book)

***Banks (Toy)**

WORCESTER PRESSED STEEL CO. (Pressed Steel), Worcester, Mass. (See adv. index, end of book)

Barge Builders

American Bridge Co., 42 B'way, New York
Carroll-Porter Boiler & Tank Co. (Steel), Wells-ville, O.
Cramp, Wm. & Sons, Ship & Engine Building Co. (Steel), Beach & Ball, Philadelphia, Pa.
Harlau & Hollingsworth Corporation (Steel), Wilmington, Del.
Newport News Ship Building & Dry Dock Co. (Steel), Newport News, Va.
Union Iron Works Co. (Steel), 222 Market, San Francisco, Cal.

Bar Iron or Steel

(See Iron & Steel, Bar)

Bark Removers

Root, Chas. E., Germfask, Mich.

Barometers

Bliss, John & Co., 128 Front, New York
Green, Henry J., 1911 Bedford av
Greiner, Emil Co., 45 Cliff, New-York
Keuffel & Esser Co., 127 Fulton, New York
Large, Chas. E., 232 Richardson, Brooklyn, N. Y.
QUEEN & CO. (Inc.), n. w. c 8th & Arch, Philadelphia, Pa. (See adv. index, end of book)
Ritchie, E. S. & Sons, Brookline, Mass.
Tagliabue, Chas. J. Mfg. Co., 53 Fulton, New York
Tagliabue, G. (Est. of), 302 Pearl, New York
Taylor Bros. Co., 29 Elizabeth, Rochester, N.Y.
Wagner Bros. & Co. (Importers), 26 Washington pl, New York
Watertown Thermometer Co., Watertown, N.Y.

Barometers (Aneroid)

QUEEN & CO. (Inc.), n. w. c 8th & Arch, Philadelphia, Pa. (See adv. index, end of book)

Barrel Machinery

(See Machinery, Barrel, Keg, Stave & Heading)

Barrel Packers

(See Packing Machines; also Bag Filling Machines)

Barrels (Chlorinating)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)
 Mine & Smelter Supply Co., Denver, Colo.
 Power & Mining Machinery Co., 52 William, N. Y. Works, Cudahy, Wis.
 Union Iron Works, San Francisco, Cal.

Barrels (Clean Up or Amalgam)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)
 Mine & Smelter Supply Co., Denver, Colo.
 Power & Mining Machinery Co., 52 William, N. Y. Works, Cudahy, Wis.
 Union Iron Works, 222 Market, San Francisco, Cal.

Barrels (Cyanide)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)
 Power & Mining Machinery Co., 52 William, N. Y. Works, Cudahy, Wis.
SCAIFE, WM. B. & SONS CO., 221 1st av, Pittsburg, Pa. (See adv. index, end of book.)
 Union Iron Works, 222 Market, San Francisco, Cal.

Barrels (Japanning)

Baird Machine Co. (also Fanning Mills), Oakville, Conn.
WILSON, F. CORTEZ & CO., 239 Lake, Chicago, Ill. (See adv. index, end of book)

*Barrels (Seamless Pressed Steel)

PRESSED STEEL TANK CO., Milwaukee, Wis. (See adv. index, end of book)

Barrels (Second-Hand)

Maguire Bros. (Lime & Cement), 527 W 55th, N. Y.

Barrels (Sheet Steel)

Acorn Brass Mfg. Co., 51 N Peoria, Chicago, Ill.
 Barnes Mfg. Co. (Seamless), Mansfield, O.
 Clark, W. J. Co., Salem, O.
 Cleveland Wire Spring Co., E 38th & Hamilton, Cleveland, O.
 Iron Clad Mfg. Co., 204 Varet, Brooklyn, N. Y.
 Kilbourne & Jacobs Mfg. Co., Columbus, O.
 Lyon Metallic Mfg. Co., Aurora, Ill.
 Ohio Mfg. Co., Painesville, O.
 Phillips Pressed Steel Co., Joliet, Ill.
SCAIFE, WM. B. & SONS CO., 221 1st av, Pittsburg, Pa. (See adv. index, end of book.)
 Welded Steel Barrel Corporation (Welded Steel), Detroit, Mich.
WILSON, F. CORTEZ & CO., 239 Lake, Chicago, Ill. (See adv. index, end of book)

Barrels (Steam Drying)

Baird Machine Co. (also Fanning Mills), Oakville, Conn.

Barrels (Steel)

(See Barrels, Sheet Steel)

Barrels (Tumbling or Rumbling)

(See also Mills Tumbling)

Baird Machine Co. ("Baird" Oblique Tilting, Dry, Wet & Steam Drying, etc.), Oakville, Conn.
 Barnett, Oscar Foundry Co. (Barnett's Hexagon), Newark, N. J.
 Bowler Foundry Co., 14 Winter, Cleveland, O.
 Brass Founders Supply Co. (Tilting, Oblique Tumblers for Brass Fdr's., also Dry & Wet Tumblers, Newark, N. J.)

Byram & Co. (Inc.), 435 Guoin, Detroit, Mich.
DODGE MFG. CO., Mishawaka, Ind. (See adv. index & branch offices, end of book)
 Falls Rivet & Machine Co. (Foundry), Cuyahoga Falls, O.

Globe Machine & Stamping Co., Cleveland, O.
 Henderson Bros., Waterbury, Conn.
KOVEN, L. O. & BRO., 50 Cliff, New York. (See adv. index, end of book)
 Locke Regulator Co., Salem, Mass.

NORTHERN ENGINEERING WORKS, 9 Chene, Detroit, Mich. (See adv. index, end of book)

Paxson, J. W. Co., 1021 N Delaware av, Phila., Pa.

Phillips & McLareu, 24th & Smallman, Pittsburg, Pa.

Royersford Foundry & Machine Co., Royersford, Pa.

Stover Mfg. Co., Freeport, Ill.

Sly, W. W. Mfg. Co., Cleveland, O.

Standard Machinery Co., Providence, R. I.

Tilghman-Brooksbank Sand Blast Co. ("Tilghman" & "Matthewson"), 1126 S 11th, Philadelphia, Pa.

Turuer, Vaughn & Taylor Co. (Chain & Nail), Cuyahoga Falls, O.

Waterbury Machine Co. (For Brass, Etc.), Waterbury, Conn.

WHITING FOUNDRY EQUIPMENT Co., Harvey, Ill. (See adv. index & branch offices, end of book)

Wickes Bros., Saginaw, Mich.

Barrels (Wire Thrashing)

Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.

Barrows (Baggage & Express)

Boston & Lockport Block Co., 160 Commercial, Boston, Mass.

Buffalo Scale Co., Buffalo, N. Y.

Clark, Geo. P. Co., Windsor Locks, Conn.

Fairbanks Co., 186 Lafayette, New York

FAIRBANKS, MORSE & CO., Frank-lin & Monroe, Chicago, Ill. (See adv. index & branch offices, end of book)

Howe Scale Co., Rutland, Vt.; 341 B'way, N. Y., & 145 Franklin, Boston

Kalamazoo Railway Supply Co., Kalamazoo, Mich.

Kilbourne & Jacobs Mfg. Co., Columbus, O.

Lansing Wheelbarrow Co., Lansing, Mich.

Sidney Steel Scraper Co. (Wooden Frame), Sidney, O.

STANDARD SCALE & SUPPLY CO., 243 Water, Pittsburg, Pa. (See adv. index & branch offices, end of book)

Syracuse Chilled Plow Co., Syracuse, N. Y.

Vicksburg Mfg. Co., Vicksburg, Mich.

Whitman Agricultural Co., 6900 S B'way, St. Louis, Mo.

Barrows (Brick)

AKRON CULTIVATOR CO. (Steel Tray), Akron, O. (See adv. index, end of book)

AMERICAN CLAY MACHINERY CO., Bucyrus, O.

Anderson Foundry & Machine Works, Anderson, Ind.

Arnold, Creager Co., New London, O.

Bryan Mfg. Co. (Steel Frame), Bryan, O.

Davis-Price Fdy & Machine Co., New Cumberland, W. Va.

Dederick's, P. K. Sons, Albany, N. Y.

Fairbanks Co., 186 Lafayette, New York

Freese, E. M. & Co., Galion, O.

Horton Mfg. Co., Painesville, O.

Jackson Mfg. Co., Harrisburg, Pa.

Kells Foundry & Machine Co., Adrian, Mich.

Kilbourne & Jacobs Mfg. Co. (Steel & Wooden), Columbus, O.

Lansing Wheelbarrow Co., Lansing, Mich.

McWhinnie, Thos., Poughkeepsie, N. Y.

Martin, H. Brick Machine Co., Lancaster, Pa.

Means Foundry & Machine Co., Steubenville, O.

Michigan Brick & Tile Machine Co., Morenci, Mich.

Phillips, Doup & Co., 56 Pearl, Brooklyn, N. Y.

Potts, C. & A. & Co., Indianapolis, Ind.

Puffer-Hubbard Mfg. Co., Minneapolis, Minn.

Raymond, C. W. Co., Dayton, O.

Scott's Patent Brick Car Co., Knoxville, Tenn.

Sidney Steel Scraper Co. (Wood Frame, Iron Wheel), Sidney, O.

Syracuse Chilled Plow Co., Syracuse, N. Y.

Thomas, Geo. W. & Co., Toledo, O.

Toledo Steel Wheelbarrow Co., 127 Hamilton, Toledo, O.

Wellington Machine Co., Wellington, O.

Whitman Agricultural Co., 6900 S B'way, St. Louis, Mo.

Barrows (Charging)

(See Barrows, Furnace Charging)

Barrows (Coal)

(See Barrows, Steel)

Barrows (Coal or Coke Charging)

(See Barrows, Furnace Charging)

Barrows (Coke)

AKRON CULTIVATOR CO. (Steel), Akron, O. (See adv. index, end of book)

ARCHER IRON WORKS CO. (Steel), 32 Lasalle, Chicago, Ill. (See adv. index, end of book)

Atlas Car & Mfg. Co., Cleveland, O.

Bryan Mfg. Co., Bryan, O.

Connellsville Machine & Car Co., Connellsville, Pa.

Fairbanks Co., 186 Lafayette, New York

FAIRBANKS, MORSE & CO. (Steel), Franklin & Monroe, Chicago, Ill. (See adv. index & branch offices, end of book)

Focht's, Geo. Sons, Hoboken, N. J.

Jackson Mfg. Co., Harrisburg, Pa.

Kilbourne & Jacobs Mfg. Co., Columbus, O.

Lansing Wheelbarrow Co., Lansing, Mich.

McWhinnie, Thos., Poughkeepsie, N. Y.

Niles Mine & Mill Supply Co., Cleveland, O., & Niles, O.

Puffer-Hubbard Mfg. Co., Minneapolis, Minn.

Sidney Steel Scraper Co., Sidney, O.

STANDARD SCALE & SUPPLY CO., 243 Water, Pittsburg, Pa. (See adv. index & branch offices, end of book)

Sterling Wheelbarrow Co., Milwaukee, Wis.

Stuebner, G. L. Iron Works (Steel), 12th & Vernon av, Long Island City, N. Y.

*Barrows (Concrete Charging)

AKRON CULTIVATOR CO., Akron, O. (See adv. index, end of book)

Cyclopean Company ("Cyclopean," Harold's Patent), 30 Franklin, Brooklyn, N. Y.

RANSOME CONCRETE MACHINERY Co. (Steel), Dunellen, N. J. (See adv. index, end of book)

Sterling Wheelbarrow Co. ("Bakers," "Ajax," "Eureka," Roller Bearing Wheels), Milwaukee, Wis.

Barrows (Contractors')

(See Wheelbarrows.)

Barrows (Folding, Steel Frame)

Bryan Mfg. Co., Bryan, O.

Barrows (Foundry)

AKRON CULTIVATOR CO., Akron, O. (See adv. index, end of book)

ARCHER IRON WORKS CO., 32 La-salle, Chicago, Ill. (See adv. index, end of book)

Bryan Mfg. Co., Bryan, O.

Fairbanks Co., 186 Lafayette, New York

FAIRBANKS, MORSE & CO. (Steel), Franklin & Monroe, Chicago, Ill. (See adv. index & branch offices, end of book)

Focht's, Geo. Sons, Hoboken, N. J.

Jackson Mfg. Co., Harrisburg, Pa.

Kilbourne & Jacobs Mfg. Co., Columbus, O.

Lansing Wheelbarrow Co., Lansing, Mich.

McWhinnie, Thos., Poughkeepsie, N. Y.

Phillips, Doup & Co., 56 Pearl, Brooklyn, N. Y.

Pollock, Alex., 203 West, New York

Sidney Steel Scraper Co., Sidney, O.

SMITH, J. D. FOUNDRY SUPPLY Co., 1581 Columbus rd, N W, Cleveland, O. (See adv. index, end of book)

STANDARD SCALE & SUPPLY CO., 243 Water, Pittsburg, Pa. (See adv. index & branch offices, end of book)

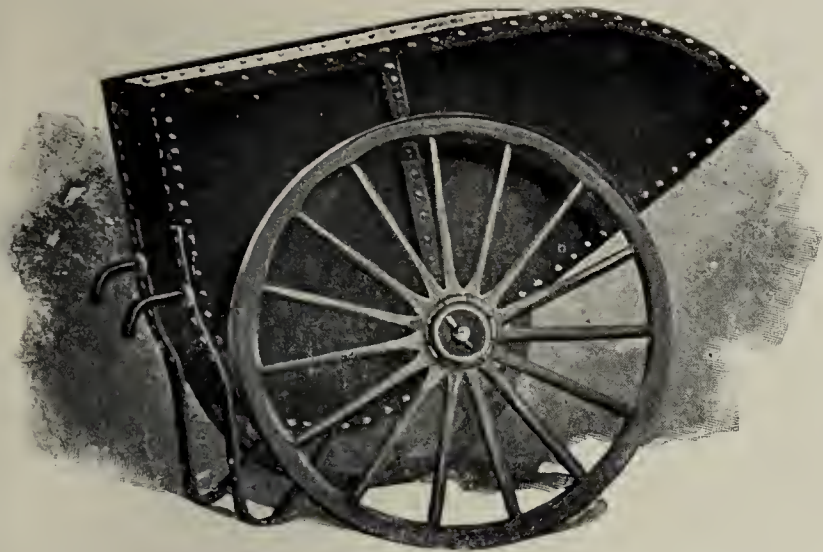
Sterling Wheelbarrow Co. ("Acme" All-Steel Tubular Frame), Milwaukee, Wis.

Stuebner, G. L. Iron Works (Steel), 12th & Vernon av, Long Island City, N. Y.

Syracuse Chilled Plow Co. (Steel Tray, Tubular), Syracuse, N. Y.

Union Iron Works, Hoboken, N. J.

When writing to firms listed in this book please mention HENDRICKS' COMMERCIAL REGISTER



Charging Barrows,
Wheel Barrows,
Coal Wagons,
Shop Cars,
Dump and Hoisting Buckets.

SPECIAL BARROWS OF ALL KINDS.

We solicit your inquiries.

THE AKRON CULTIVATOR COMPANY,
AKRON, OHIO.

BARROWS
FOR
COALING
ENGINES



PATENTED

ARCHER IRON WORKS

MANUFACTURERS OF

CHARGING BARROWS

FOR COALING LOCOMOTIVES

Steel Wheelbarrows, Cars, Lumber Carts
Trucks and Metal Wheels of all Kinds



CHARGING BARROWS

WE ALSO MANUFACTURE

COAL and COKE WAGONS, CAR WHEELS
and AXLES, COKE and ORE BOGGIES,
FOUNDRY, MORTAR, PIG-IRON, STONE,
SMELTER, COAL and COKE BARROWS, MINE,
ORE and STONE CARS, DRY KILN TRUCKS,
FACTORY TRUCKS.

SEND FOR CATALOGUE AND PRICES.

OFFICE

32 LA SALLE ST., CHICAGO.

TO OUR ADVERTISERS AND SUBSCRIBERS.

At any time during the year, that you do not find classified in our book the names and addresses of the Manufacturers of any ARTICLE you are in the market to PURCHASE, please write us, giving as complete particulars as possible, and we will always endeavor to render you PROMPT SERVICE in furnishing you the names and addresses of such Manufacturers and without any cost or obligation. This does not include Mailing Lists.

S. E. HENDRICKS CO.



LABOR SAVING APPLIANCES, TOOLS^{and} SUPPLIES

We have the best facilities in this country for furnishing to our subscribers, free of charge, the names and addresses of the leading manufacturers of the latest improved machinery, tools and appliances etc., for working and handling all kinds of metal, wood, stone, slate, earth, minerals, etc., such as :

**Air, Gas and Gasoline Compressors
Cranes for all purposes
Pneumatic Tools and Appliances
Derricks, Hand or Power
Hoists, Hand or Power
Elevators, Electric, Hydraulic, etc.
Excavators and Dredges
Conveyors for all kinds of materials
Castings of all kinds
Steam Shovels
Machine or Hand Tools
Machinery for all Purposes
Engines for all Purposes
Electric Generators and Motors
Drills for all Purposes
Power Transmission
Agricultural Implements
Locomotives, Cars, etc.
Tools of Every Description.**

Complete equipment for Railroad, Machine Shop, Foundry, Mine, Quarry Mill, Factory, Electric and Gas Lighting, etc., in fact everything wanted for manufacturing plants or to carry out economically large contracts.

S. E. HENDRICKS CO.,
74 Lafayette St., NEW YORK



Barrows (Furnace Charging)

AKRON CULTIVATOR CO. (Automatic Dump), Akron, O. (See adv. index, end of book)
ARCHER IRON WORKS CO., 32 La-
 salle, Chicago, Ill. (See adv. index, end of book)
 Bryan Mfg. Co., Bryan, O.
 Consolidated Iron Works, Hoboken, N. J.
 Fairbanks Co., 186 Lafayette, New York
 Focht's, Geo. Sons, Hoboken, N. J.
FAIRBANKS, MORSE & CO., Frank-
 lin & Monroe, Chicago, Ill. (See adv. index & branch offices, end of book)
 Hoshor-Platt Co., 120 Liberty, New York
 Jackson Mfg. Co., Harrisburg, Pa.
 Kilbourne & Jacobs Mfg. Co., Columbus, O.
 Lansing Wheelbarrow Co., Lansing, Mich.
 Petty, J. K. & Co. (Lebanon Boiler Works),
 (With Failers Axles), 206 N 4th, Philadel-
 phia, Pa.; Works, Lebanon, Pa.
 Phillips, Doup & Co., 56 Pearl, Brooklyn, N. Y.
 Power & Mining Machinery Co., 52 William,
 N. Y. Works, Cudahy, Wis.
 Sidney Steel Scraper Co., Sidney, O.
 Syracuse Chilled Plow Co., Syracuse, N. Y.
 Union Boiler & Mfg. Co., Lebanon, Pa.
 Weimer Machine Works Co., Lebanon, Pa.

Barrows (Garden)

Bryan Mfg. Co., Bryan, O.
 Keystone Farm Machine Co., York, Pa.
 Kilbourne & Jacobs Mfg. Co. ("20th Century,"
 etc.), Columbus, O.
 McWhinnie, Thos., Poughkeepsie, N. Y.
 Puffer-Hubbard Mfg. Co., Minneapolis, Minn.
 Sidney Steel Scraper Co., Sidney, O.
 Sterling Wheelbarrow Co., Milwaukee, Wis.
 Syracuse Chilled Plow Co., Syracuse, N. Y.
 Toledo Metal Wheel Co., Toledo, O.
 Zering, H. Mfg. Co., Cincinnati, O.

Barrows (Gas Works)

(See Barrows, Coke)

***Barrows (Hooded Coal or Coke)**

AKRON CULTIVATOR CO., Akron, O.
 (See adv. index, end of book)

***Barrows (Locomotive Coal Station)**

AKRON CULTIVATOR CO., Akron, O.
 (See adv. index, end of book)
ARCHER IRON WORKS CO., 32 La-
 salle, Chicago, Ill. (See adv. index, end of book)

Barrows (Mortar)

AKRON CULTIVATOR CO., Akron, O.
 (See adv. index, end of book)
ANDERSON, W. H. TOOL & SUPPLY
 Co., 14 Macomb, Detroit, Mich. (See adv.
 index, end of book)
ARCHER IRON WORKS CO. (Steel),
 32 Lasalle, Chicago, Ill. (See adv. index,
 Bryan Mfg. Co., Bryan, O. end of book)
 Kilbourne & Jacobs Mfg. Co. (Bolted), Colum-
 bus, O.
 Puffer-Hubbard Mfg. Co., (Coal, Ore & Coke),
 Minneapolis, Minn.
 Sidney Steel Scraper Co. (Tubular Steel), Sid-
 ney, O.
 Sterling Wheelbarrow Co. (Steel, etc.), Mil-
 waukee, Wis.
 Syracuse Chilled Plow Co. (Steel Tray, Wood
 Frame), Syracuse, N. Y.

Barrows (Ore)

AKRON CULTIVATOR CO., Akron, O.
 (See adv. index, end of book)
ARCHER IRON WORKS CO. (Steel
 Charging), 32 Lasalle, Chicago, Ill. (See
 adv. index, end of book)
 Focht's, Geo. Sons, Hoboken, N. J.
 Kilbourne & Jacobs Mfg. Co. (Bolted), Colum-
 bus, O.
 Puffer-Hubbard Mfg. Co., Minneapolis, Minn.
 Syracuse Chilled Plow Co. (Steel Tray Tubular),
 Syracuse, N. Y.

Barrows (Pig Iron)

AKRON CULTIVATOR CO., Akron, O.
 (See adv. index, end of book)
ARCHER IRON WORKS CO., 32 La-
 salle, Chicago, Ill. (See adv. index, end of book)

Kilbourne & Jacobs Mfg. Co. (Tubular Steel),
 Columbus, O.
 Sidney Steel Scraper Co., Sidney, O.
 Syracuse Chilled Plow Co. (Steel Tray Tubular),
 Syracuse, N. Y.

***Barrows (Smelter)**

AKRON CULTIVATOR CO., Akron, O.
 (See adv. index, end of book)
ARCHER IRON WORKS CO. (Steel),
 32 Lasalle, Chicago, Ill. (See adv. index,
 end of book)

Barrows (Steel)

AKRON CULTIVATOR CO., Akron, O.
 (See adv. index, end of book)
ARCHER IRON WORKS CO., 32 La-
 salle, Chicago, Ill. (See adv. index, end of book)
 Bryan Mfg. Co., Bryan, O.
 Clark, W. J. Co., Salem, O.
 Connellsville Machine & Car Co., Connellsville,
 Pa.
 Fairbanks Co., 186 Lafayette, New York
FAIRBANKS, MORSE & CO., Frank-
 lin & Monroe, Chicago, Ill. (See adv. in-
 dex & branch offices, end of book)
 Focht's, Geo. Sons, Hoboken, N. J.
 Jackson Mfg. Co., Harrisburg, Pa.
 Kilbourne & Jacobs Mfg. Co. (& Steel Tray),
 Columbus, O.

Lansing Wheelbarrow Co., Lansing, Mich.
 McWhinnie, Thomas (Steel Tray & Wheel),
 Poughkeepsie, N. Y.
 Ohio Ceramic Engineering Co. (Package, etc.),
 Cleveland, O.
 Optenberg & Sonneman, Sheboygan, Wis.
 Phillips, Doup & Co., 56 Pearl, Brooklyn, N. Y.
 Pollock, Alex. Co., 203 West, New York
 Puffer-Hubbard Mfg. Co., Minneapolis, Minn.
 Sidney Steel Scraper Co. (Solid Pressed Steel,
 Tray & Steel Tubular), Sidney, O.
 Sterling Wheelbarrow Co. (All Steel, Roller
 Bearing Wheels), Milwaukee, Wis.
 Syracuse Chilled Plow Co., Syracuse, N. Y.
 Thomas, Geo. W. & Co., Toledo, O.
 Toledo Steel Wheelbarrow Co., Toledo, O.
 Union Iron Works, Hoboken, N. J.
 Western Iron Works, 123 Beale, San Francisco,
 Cal.

White, Robert Engineering Works (Dumping),
 ft Columbia, Brooklyn, N. Y.

Barrows (Steel Tubular)

AKRON CULTIVATOR CO., Akron, O.
 (See adv. index, end of book)
 American Steel Scraper Co., Sidney, O.
ARCHER IRON WORKS CO., 32 La-
 salle, Chicago, Ill. (See adv. index, end of book)
 Bryan Mfg. Co., Bryan, O.
 Consolidated Iron Works, Hoboken, N. J.
 Fairbanks Co., 186 Lafayette, New York
FAIRBANKS, MORSE & CO., Frank-
 lin & Monroe, Chicago, Ill. (See adv. in-
 dex & branch offices, end of book)
 Kilbourne & Jacobs Mfg. Co., Columbus, O.
 Lansing Wheelbarrow Co., Lansing, Mich.
 McWhinnie Wheelbarrow Works, Poughkeepsie,
 N. Y.
 Pollock, Alex. Co., 203 West, New York
 Power & Mining Machinery Co. (Tray), 52 Wil-
 liam, N. Y. Works, Cudahy, Wis.
 Sidney Steel Scraper Co., Sidney, O.
 Sterling Wheelbarrow Co. (Roller Bearing
 Wheels), Milwaukee, Wis.
 Syracuse Chilled Plow Co., Syracuse, N. Y.
 Zering, H. Mfg. Co., Cincinnati, O.

Barrows (Stone)

AKRON CULTIVATOR CO., Akron, O.
 (See adv. index, end of book)
ARCHER IRON WORKS CO. (Steel),
 32 Lasalle, Chicago, Ill. (See adv. index,
 Bryan Mfg. Co., Bryan, O. end of book)
 Kilbourne & Jacobs Mfg. Co. (Wood Wheels,
 also Steel Bottom), Columbus, O.
 Lansing Wheelbarrow Co., Lansing, Mich.
 McWhinnie, Thos., Poughkeepsie, N. Y.
 Puffer-Hubbard Mfg. Co., Minneapolis, Minn.
 Sidney Steel Scraper Co. (Steel Bottom), Sid-
 ney, O.
 Syracuse Chilled Plow Co., Syracuse, N. Y.
 Thomas, Geo. W. & Co., Toledo, O.
 Toledo Steel Wheelbarrow Co., Toledo, O.

Barrows (Track)

American Track Barrow (& Cars "Pony" &
 "Dandy"), Lowell, Mass.
 Railroad Supply Co., Old Colony bldg, Chicago,
 Ill.
 Western Electric & Supply Co., St. Louis, Mo.

Barrows (Wood)

(See Wheelbarrows.)

Bars (Aluminum)

(See Alloys, Aluminum.)

Bars (Angle)

Colorado Fuel & Iron Co., Denver, Colo.
DONOVAN WIRE & IRON CO., Tole-
 do, O. (See adv. index, end of book)
 Lackawanna Steel Co., Buffalo, N. Y.
 Logan Iron & Steel Co., Philadelphia, Pa.
 P. C. Works, Perth Amboy, N. J.
 Republic Iron & Steel Co., Chicago, Ill.
SCAIFE, WM. B. & SONS CO., 211 1st
 av, Pittsburg, Pa. (See adv. index, end of
 book)

Bars (Arch)

American Iron & Steel Mfg. Co., Lebanon, &
 Reading, Pa.
 Carnegie Steel Co., Carnegie bldg, Pittsburg,
 Pa.
 Pittsburg Forge & Iron Co., 1003 Penna. av,
 Pittsburg, Pa.

Bars (Boring)

(See also Cylinder Boring Machines)

Hill Standard Mfg. Co., Anderson, Ind.
 Seamless Tube Co. of America (Hollow), Frick
 bldg, Pittsburg, Pa.

Bars (Carpenters' Prying)

Johnson, Wm. (Hedberg Works), Newark,
 N. J.

Bars (Claw)

ANDERSON, W. H. TOOL & SUPPLY
 Co., 14 Macomb, Detroit, Mich. (See adv.
 index, end of book)
 Atha Tool Co., ft of Chapel, Newark, N. J.
 Beall Bros. (Inc.) (with Heel & Goose Neck,
 etc.), Alton, Ill.
 Evansville Tool Works (Railroad, etc.), Evans-
 ville, Ind.
 Harvey, H. H., 608 Atlantic av, Boston, Mass.
 Hubbard & Co., Pittsburg, Pa.
 Iron City Tool Works (Ltd.), 23d & Smallman,
 Pittsburg, Pa.
 Kalamazoo Rwy. Supply Co., Kalamazoo, Mich.
 Klein-Logan Co., S 13th & Breed, Pittsburg,
 Pa.
 Oliver Iron & Steel Co., S 10th & Muriel, Pitts-
 burg, Pa.
 Pittsburg Tool & Drop Forge Co. ("Ches-
 wick"), Works: Cheswick, Pa.
 Plumb, Fayette R., Frankford, Phila., Pa.
 Solid Steel Tool & Forge Co. ("S. T. S."),
 Brackenridge, Pa.
 Sweet's Steel Co., Williamsport, Pa.
 Union Drop Forge Co., Chicago, Ill.
 Verona Tool Works, Verona, Pa., & Murtland
 bldg, Pittsburg, Pa.
 Vicksburg Mfg. Co., Vicksburg, Mich.

Bars (Commutator)

Ansonia Electrical Co., Ansonia, Conn.
 Billings & Spencer Co., Hartford, Conn.
 Bridgeport Brass Co., Bridgeport, Conn., & 19
 Murray, N. Y.
 Cameron, H. P. Elec. Mfg. Co., Ansonia, Conn.
 Coe Brass Mfg. Co., Torrington, Conn.
 Columbia Machine Works & Malleable Iron Co.,
 167 Chestnut, Brooklyn, N. Y.
 Commutator Co., 121 N 1st av, N Minneapolis,
 Minn.
 Crucible Steel Co. of America, Frick bldg.,
 Pittsburg, Pa.
 Eureka Tempered Copper Works, North East,
 Pa.
 Forest City Electric Co., Cleveland, O.
 Homer Commutator Co. (Standard & Special),
 Cleveland, O.
 Jefferson Brass Foundry, 209 King, Brooklyn,
 N. Y.
 Keystone Drop Forge Works, Chester, Pa.
 Knoblock-Heideman Mfg. Co., South Bend, Ind.
 Brackenridge, Pa.
 Mansfield Tempered Copper Co., Mansfield, O.
 Milwaukee Commutator Co., Milwaukee, Wis.
 Ohio Brass Co., Mansfield, Ohio
 Page-Storms Drop Forge Co. (Segments Drop
 Forged from Pure Unalloyed Copper), Chica-
 pee Falls, Mass., & Springfield, Mass.
 Rome Brass & Copper Co., Rome, N. Y.

Sterion Copper, Brass & Bronze Co., 63 N Ashland av., Chicago Ill.
 Van Dorn-Elliott Electric Co., Cleveland, O.
WESTINGHOUSE ELECTRIC & MFG. Co., Pittsburgh, Pa. (See adv. index, & branch offices, end of book)

Bars (Coupling)

Solid Steel Tool & Forge Co. ("S. T. S."), Brackenridge, Pa.

Bars (Cylinder Boring)

(See Cylinder Boring Machines.)

Bars (Digging)

Sweet's Steel Co., Williamsport, Pa.

Bars (Draw)

ANDERSON, W. H. TOOL & SUPPLY Co., 14 Macomb, Detroit, Mich. (See adv. index, end of book)
 Peacock's Iron Works, Selma, Ala.
 Pittsburg Forge & Iron Co., 1003 Penna. av, Pittsburg, Pa.
 Pratt & Letchworth Co., 189 Tonawanda, Buffalo, N. Y.
 Railway Steel Spring Co., 71 B'way, New York

Bars (Driving)

Sweet's Steel Co., Williamsport, Pa.

Bars (Eye)

American Bridge Co., Penna bldg, Philadelphia, Pa., & 42 B'way New York
 Passaic Steel Co., Paterson, N. J.
 Phoenix Iron Co. (Upset), 410 Walnut, Philadelphia, Pa.

Bars (Interlocking Channel)

(See Piling, Interlocking Steel.)

Bars (Lining & Tamping)

ANDERSON, W. H. TOOL & SUPPLY Co., 14 Macomb, Detroit, Mich. (See adv. index, end of book)
 Atha Tool Co. ft Chapel, Newark, N. J.
 Beall Bros. (Inc.), Alton, Ill.
 Buckeye Mfg. Co., Canton, O.
 Columbus Handle & Tool Co., Columbus, Ind.
 Dicke Tool Co., Downers Grove, Ill.
 Evansville Tool Works, Evansville, Ind.
 Handlan-Buck Mfg. Co. ("Jackson," "Hoxie"), 212 N 3d, St. Louis, Mo.
 Hubbard & Co., Pittsburg, Pa.
 Iron City Tool Works (Ltd.), 32d & Smallman, Pittsburg, Pa.
 Kalamazoo Railway Supply Co., Kalamazoo, Mich.
 Klein-Logan Co., S 13th & Breed, Pittsburg, Pa.
 New Castle Forge & Bolt Co., New Castle, Pa.
 Oshkosh Logging Tool Co., Oshkosh, Wis.
 Pittsburg Tool & Drop Forge Co. ("Cheswick"); Works, Cheswick, Pa.
 Plumb, Fayette, Frankford, Phila., Pa.
 Solid Steel Tool & Forge Co. ("S. T. S."), Brackenridge, Pa.
 Sweets Steel Co. (Tamping), Williamsport, Pa.
 Union Drop Forge Co., 66 E Ohio, Chicago, Ill.
 Verona Tool Works, Verona, Pa., & Murtland, bldg, Pittsburg, Pa.
 Vicksburg Mfg. Co., Vicksburg, Mich.

Bars (Low Phosphorus Melting)

Samnel, Frank (firm of), ("Howe" & "Samuels"), 1502 Market, Phila., Pa.

Bars (Mine Spike)

Pittsburg Tool & Drop Forge Co. ("Cheswick"); Works, Cheswick, Pa.

Bars (Paper Mill Engine)

Holyoke Bar Co. (also Bed Plates), Holyoke, Mass.

Bars (Pinch)

(See also Pullers, Spike.)

ANDERSON, W. H. TOOL & SUPPLY Co., 14 Macomb, Detroit, Mich. (See adv. index, end of book)

Beall Bros. (Inc.), Alton, Ill.
 Braunsdorf-Mueller Co. (Bricklayers'), Elizabeth, N. J.
 Collins Co., Collinsville, Conn.
 Crescent Novelty Mfg. Co., 703 S. B'way, St. Louis, Mo.
 Falls Mfg. Co., 12 Drumm, San Francisco, Cal.
 Hubbard & Co., Pittsburg, Pa.
 Iron City Tool Works (Ltd.), 32d & Smallman, Pittsburg, Pa.
 Pittsburg Tool & Drop Forge Co. ("Cheswick" Miners); Works, Cheswick, Pa.
 Solid Steel Tool & Forge Co. ("S. T. S."), Brackenridge, Pa.
 Sweet's Steel Co., Williamsport, Pa.
 Verona Tool Works (Locomotive), Verona, Pa., & Murtland bldg, Pittsburg, Pa.
 Webster Mfg. Co. ("Sheldon" & "Champion"), 1075 W 15th, Chicago, Ill., & 38 Dey, New York

*Bars (Quarry)

ANDERSON, W. H. TOOL & SUPPLY Co., 14 Macomb, Detroit, Mich. (See adv. index, end of book)
INGERSOLL-RAND CO., 11 B'way, New York. (See adv. index & branch offices, end of book)
SULLIVAN MACHINERY CO., Railway Exchange bldg, Chicago, Ill. (See adv. index & branch offices, end of book)

Bars (Shackle)

Atha Tool Co., Newark, N. J.
 Verona Tool Works, Verona, Pa., & Murtland bldg., Pittsburg, Pa.

*Bars (Shaft)

INGERSOLL-RAND CO., 11 B'way, New York. (See adv. index & branch offices, end of book)

Bars (Shutter)

Brass Goods Mfg. Co., Nevin & Union, Brooklyn, N. Y.
 Hoeg, R. C. & Co., 11th & Catharine, Philadelphia, Pa.
 Mallory, Wheeler Co., New Haven, Conn.
 Norwalk Lock Co., S. Norwalk, Conn.
 Peck, Stow & Wilcox Co., Southington, Conn., & 27 Murray, New York
 Penn Hardware Co., Reading, Pa.
 Peters, Jas. & Son, (Fire Shutter Bars Wrought Iron), 1934 N Front, Phila. Pa.
 Reading Hardware Co., Reading, Pa.
 Russell & Erwin Mfg. Co., New Britain, Conn., & 43 Chambers, New York
STANLEY WORKS (Wrought Steel), New Britain, Conn., & 79 Chambers, N. Y. (See adv. index, end of book)
 Yale & Towne Mfg. Co., 9 Murray, N. Y. Works: Stamford, Conn.

Bars (Splice)

(See Rail Braces & Fastenings.)

Bars (Towel)

(See Bath Room Fixtures, etc.)

Barytes

(See also Carbonate of Barytes)

Commercial Mining & Milling Co., Knoxville, Tenn.
DAVIDSON, JAS. H. (Inc.), 239 Front, New York. (See adv. index, end of book)
 Doggett, Stanley, 101 Beekman, New York
 Dingee, Steinmann & Co., Lynchburg, Va.
 Gabriel & Schall (Sulphate & Carbonate), 205 Pearl, New York
 Nulsen, Klein & Krausse Mfg. Co., St. Louis, Mo.
 Osborn, Clarence J. (Broker, Miners), 284 Pearl, New York
 Salomon, L. A. & Bro. (Sulphate & Carbonate), 216 Pearl, New York

Bases (Battery Cut Out)

American Enamel Co., Providence, R. I.
 Bogert & Hopper, 162 William, N. Y.
 Estes, E. B. & Sons, 45 John, New York
 Klumpp's, J. G. Sons, 13 Baxter, N. Y.
 Raucher, Jno., St. Paul, Minn.
 Union Hardware Co., Torrington, Conn.

*Bases (Cafe Table)

BETHLEHEM FOUNDRY & MACHINE Co. (Cast Iron), Front, South Bethlehem, Pa., & 149 B'way, New York. (See adv. index, end of book)

Bases (Incandescent Lamp)

Bliss-Chester Co., Providence, R. I.
 Bridgeport Brass Co., Bridgeport, Conn.
 New Jersey Lamp & Bronze Works, New Brunswick, N. J.
 Providence Gas Burner Co., Providence, R. I.
 Steel & Johnson Mfg. Co., Waterbury, Conn.
 Turner & Seymour Mfg. Co., Torrington, Conn.
 White, J. H. Mfg. Co., 111 N 3d, Brooklyn, N. Y.

Bases (Trolley)

American Machine Mfg. Co., 137 Beaubien, Detroit, Mich.
 Homer Commutator Co., 110 Mason, Cleveland, O.
NUTTALL, R. D. CO., Fayette, Pittsburg, Pa. (See adv. index, end of book)
 Recording Fare Register Co. ("Kelsey"), New Haven, Conn.
 Sterling-Meeker Co. ("Sterling" Roller Bearing), 420 Ogden av, Newark, N. J.
 United States Electric Railway Supply Co., 40 Larned, Detroit, Mich.

*Bases & Fittings

CHASE-SHAWMUT CO. (National Elec. Code Standard), Newburyport, Mass. (See adv. index, end of book)

*Basins

KEWANEE BOILER CO., Kewanee, Ill., & 169 E Lake, Chicago, Ill. (See adv. index, end of book)

Basins (Catch)

CANTON FOUNDRY & MACHINE CO., Canton, O. (See adv. index, end of book)
 Curry & Co., Meadville, Pa.
 Davison Foundry Co., 235 Johnson, Chicago, Ill.
 Duplex Mfg. & Supply Co., New England bldg., Cleveland, O.
 Hartford Foundry Corporation ("Duplex"), Hartford, Conn.
 Holbrook-Armstrong Iron Co., Racine, Wis.
 Madison Ave. Foundry Co., (And Covers), 155 E Madison av, Cleveland, O.
 Pierce Supply Co., Am. Trust bldg, Cleveland, O.
 Reinforced Concrete Pipe Co. (Reinforced Cement), Jackson, Mich.
 Sessions Foundry Co., Bristol, Conn.
 Wade Iron Sanitary Mfg. Co. ("Wade"), 52 Dearborn, Chicago, Ill.

Baskets (Counter Display)

Meyers, Fred. J. Mfg. Co., Hamilton, O.
 Parker Wire Goods Co., Worcester, Mass.
 Wire Goods Co. (Wire), Worcester, Mass.

*Baskets (Dipping)

WILSON, F. CORTEZ & CO., 239 Lake, Chicago, Ill. (See adv. index, end of book)
WISCONSIN IRON & WIRE WORKS, 190 E Water, Milwaukee, Wis. (See adv. index, end of book)
WRIGHT WIRE CO. (Steel & Brass Wire), Worcester, Mass. (See adv. index & branch offices, end of book)

Baskets, Hampers & Touring Cases (Automobile)

Bailie Basket Co., 37 Harvard, Boston, Mass.
 Boyle, John & Co., 114 Duane, New York
 Buxton, B. W. Hamper Co. (Buxton), 7 Taylor, Springfield, Mass.
 Chicago Willow & Rattan Works, Chicago, Ill.
 Curado Willow Ware Co., Philadelphia, Pa.
 Holbrook, A. & C. W., 74 N Main, Providence, R. I.
 Keystone Willow Mfg. Co., Philadelphia, Pa.
 Myers & Alexander ("Ever-dry"), 239 E 27th, New York
 Post & Lester Co., Hartford, Conn.
 Poughkeepsie Art Pulp Co., Poughkeepsie, N.Y.
 Williams Mfg. Co. (Ash or Rattan), Northampton, Mass.

Baskets (Mill)

Am. Vulcanized Fibre Co. (Laminar Dept.),
1017 Market, Wilmington, Del.
Ballou Mfg. Co., Belding, Mich.
Ballou, M. E. & Son, Becket, Mass.
Brown Bros. Co., Providence, R. I.
Burlington Basket Co. (Canvas), Burlington, Ia.
Crane Bros., Westfield, Mass.
Diamond State Fibre Co., Elmsmere, Del.
Holbrook, A. & C. W., Providence, R. I.
Hotchkiss Basket Co., Hinsdale, Mass.
Houghton, E. F. & Co., (Hand Split Oak), 240
Somerset, Phila. Pa.
Lane, W. T. & Bro., (Canvas & Steel Frame),
Poughkeepsie, N. Y.
Leatheroid Mfg. Co., Kennebunk, Me.
Morris & Co., (Cotton Duck), Yardville, N. J.
Spaulding-Perkins Co. (Fibre), Rochester, N. H.
Walrus Fibre Mfg. Co., Medford, Mass.
Williams Mfg. Co., (Bamboo or Oak), also Iron
Strapped & Iron Wheels or Casters), North-
ampton, Mass.

Baskets (Rawhide)

Barlow, John W. Co., Lawrence, Mass.
Holbrook, A. & C. W., Providence, R. I.

Baskets (Sheet Steel)

Ironclad Mfg. Co., 204 Varet, Brooklyn, N. Y.
National Enameling & Stamping Co., B'way &
White, New York, & St. Louis, Mo.

Baskets (Waste Paper)

Barbee Wire & Iron Works (Wire), Lafayette,
Crane Bros. (Fibre), Wakefield, Mass. Ind.
ESTEY WIRE WORKS (Wire), 59
Fulton, New York. (See adv. index, end of
book)
Hamblin & Russell Mfg. Co. (Wire), Worcester,
Mass.
Heywood Bros. & Wakefield Co. (Willow),
Gardner, Mass.
Williams Mfg. Co. (Rattan, etc.), Northampton,
Mass.
Wire Goods Co. (Wire), Worcester, Mass.

*Baskets (Wire)

BUFFALO WIRE WORKS CO., 316
Terrace, Buffalo, N. Y. (See adv. index, end
of book)
CITY FORGE & IRON WORKS (An-
drew Plocker, Prop.), Dayton, O. (See adv.
index, end of book)
WISCONSIN IRON & WIRE WORKS,
190 E Water, Milwaukee, Wis. (See adv.
index, end of book)

Batch Mixing Plants

Heyl & Patterson, 51 Water, Pittsburg, Pa.

Bath Cabinets, Thermal, Etc.

Cabinet Mfg. Co., Quincy, Ill.
Feix & Goethel, Milwaukee, Wis.
Houchin, Thos. W. Co., 48 Warren, N. Y.
Robinson Thermal Bath Co., 713 Jefferson,
Toledo, O.
Toledo Cooker Co. ("Ideal" Vapor), Toledo, O.
World Mfg. Co., ("Quaker" Vapor), 505 Elm,
Cincinnati, O.

Bath Room Fixtures & Furnish- ings

Aetna Brass Mfg. Co., 123 S. Clinton, Chicago.
American Brass Works, 428 Plum, Cincinnati.
American Hardware Mfg. Co., Ottawa, Ill.
American Pin Co., Waterbury, Conn.
Badger Brass Mfg. Co., Kenosha, Wis.
Bailey-Farrell Mfg. Co., Pittsburg, Pa.
Barrett, Jas. Mfg. Co., 215 Franklin, Boston.
Behrer & Co., 69 Beekman, N. Y. Mass.
Bernz, Otto S., 27 Ashland, Newark, N. J.
Blessing, C. A., 518 Montgomery Ave., Phila-
delphia, Pa.
Brooks, M. S. & Son (Three Arm), Chester,
Conn.
Buffalo Mfg. Co. (Soap & Sponge Holders,
Towel Racks, etc.), 1444 Niagara, Buffalo,
N. Y.

Buffalo Specialty Mfg. Co., (Adjustable Seats),
Buffalo, N. Y.
Cantslip Bath Tub Appliance Co. ("Cantslip"
Mats), 56 Pine, New York
Chambers & Ainslee, Commercial Wharf, New-
ark, N. J.
Clarke, Robert, 100 Schermerhorn, Brooklyn,
N. Y.
Climax Specialty Co., Seneca Falls, N. Y.
Clow, Jas. B. & Sons, 344 Franklin, Chicago,
Ill.
Columbus Brass Co., 94 N 6th, Columbus, O.
Cooper, W. S. Brass Works, 437 N 12th, Phil-
adelphia, Pa.
Cream City Bath Cabinet Co., 279 3d, Mil-
waukee, Wis.
Crescent Mfg. Co., Connellsville, Pa.
Dalton-Ingersoll Co., 171 High, Boston, Mass.
Dayton Mfg. Co., Dayton, O.
Dearborn Brass Co., Cedar Rapids, Ia.
D'este, Julian Co., 24 Canal, Boston, Mass.
Detroit Sautary Supply Co., Detroit, Mich.
Diamond Mfg. Co., Detroit, Mich.
Edwardsville Brass Co. (Soap, Cups, Tumbler-
Holders, Comb & Brush Trays, Bath Seats,
etc.), Edwardsville, Ill.
Eustis, J. P. Mfg. Co., 92 North, Boston, Mass.
Federal Company, 63 Market, Chicago, Ill.
Feix & Goethel, 413 State, Milwaukee, Wis.
Forest City Brass Works, 90 Merwin, Clevel-
and, O.
Foyer Steel Stamping Co., Painesville, O.
Frank & De Keyser, 173 Fulton, N. Y. (Hotel
Supplies.)
Haines, Jones & Cadbury Co., 1100 Ridge av,
Phila., Pa.
Haydenville Co., Haydenville, Mass.
Heap, Wm. & Sons, Grand Haven, Mich.
Hess, Chas. Co. (Mfrs. Agents for all kinds,
Exporters only), 129 Front, New York
Hoffman & Billings Mfg. Co., Milwaukee, Wis.
Ideal Mfg. Co., Detroit, Mich.
Illinois Malleable Iron Co., 30 W. Monroe,
Chicago, Ill.
Kleinert, I. B. Rubber Co. (Bath Curtains),
725 B'way, New York
Knott-Van Arnam Mfg. Co., Fort Wayne, Ind.
Kokomo Brass Works (Byrne & Ryan, Chicago,
Owners), Kokomo, Ind.
McCambridge & Co., Philadelphia, Pa.
McDonald, A. Y. & Morrison Mfg. Co., Du-
buque, Ia.
Manhattan Brass Co., 338 E. 28th, N. Y.
Manhattan Electrical Supply Co., 17 Park pl,
N. Y., & 188 5th av., Chicago, Ill.
Manning, Bowman & Co., Meriden, Conn.
Meriden Malleable Iron Co., Meriden Conn.
Merrie, Hugh, 226 E. 9th, Cincinnati, O.
Meyer-Sniffen Co. (Ltd.), 5 E. 19th, N. Y.
Milwaukee Brass Mfg. Co., Milwaukee, Wis.
Mott, J. L. Iron Works, 118 5th av, New York
National Supply Co., Toledo, O.
Nelson, N. O. Mfg. Co., St. Louis, Mo.
Novelty Mfg. Co. (Trimnings, Soap Dishes,
Racks, etc.), Waterbury, Conn.
Ohio Brass & Iron Mfg. Co., 1199 Franklin
av, Cleveland, O.
Park & McKay Co., Detroit, Mich.
PARKER, CHAS. CO., Meriden, Conn.
(See adv. index, end of book)
Peck Bros. & Co., 125 Chestnut, New Haven,
Conn.
Perine Bath Room Specialty Co., 11 E 22d,
New York
Pfeuger & Henger Co., St. Louis, Mo.
Pittsburg Lamp & Brass Co., Allegheny, Pa.
Register, J. & Sons Co., Baltimore, Md.
Rundle-Spence Mfg. Co., Milwaukee, Wis.
Ryan, J. J. & Co., 105 S Jefferson, Chicago.
Sanitary Co., 7 Water, Cleveland, O. Ill.
Sargent & Co., New Haven, Conn.
Savill, Thos., 11th & Wood, Philadelphia, Pa.
Searls Mfg. Co., Newark, N. J.
Smith, E. C. Mfg. Co., 224 Washington, Chi-
cago, Ill.
Smith & Anthony Co., 48 Union, Boston, Mass.
Specialty Mfg. Co., Milwaukee, Wis.
Spence Mfg. Co., 63 2nd, Milwaukee, Wis.
Standard Sanitary Mfg. Co. of Michigan, De-
troit, Mich.
Standard Sanitary Mfg. Co., Bessemer bldg,
Pittsburg, Pa.
Stebbing, E. Mfg. Co., Springfield, Mass.
Sternan, S. & Co., 195 Plymouth, Brooklyn,
N. Y.
Street & Kent Mfg. Co., 45 Fulton, Chicago,
Ill.
Sweeney, W. H. Mfg. Co. (Soap Dishes,
Towel Bars, Brush & Tumbler Holders,
etc.), 66 Water, Brooklyn, N. Y.
Syracuse Faucet & Valve Co., Syracuse, N. Y.
Taylor, Geo., 97 Cliff, N. Y.
Thomas Brass and Iron Co., Waukegan, Ill.

Troy Nickel Works, Jno. E. Gaitley, Prop.
(Revolving Towel Rack, etc.), Albany, N. Y.
Trenton Brass & Machine Co., Trenton, N. J.
United Brass Mfg. Co., 958 Hamilton, Clevel-
and, O.
Van Houten, E. J. S. (Glassware & China),
74 Park pl., N. Y.
Van Meter, J. W. & Co., 1019 Spring Garden,
Philadelphia, Pa.
Victor Excelsior Brass Works, 128 White,
Walterscheid Bros., Wichita, Kans. N. Y.
Waterbury Mfg. Co. (Bath Sprays, etc.),
Waterbury, Conn.
Webb, F. W. Mfg. Co., 50 Elm, Boston, Mass.
West Mfg. Co., Columbus, O.
Wolff, L. Mfg. Co., 117 W. Lake, Chicago, Ill.
Wolverine Brass Works (Towel Bars, Soap
Cups, etc.), Grand Rapids, Mich.
WORCESTER PRESSED STEEL CO.
Worcester, Mass. (See adv. index, end of
book)

Bath Tub Enamels

(See Enamels, Bath Tub.)

Bath Tubs (Ceramic)

(See Bath Tubs, Porcelain.)

Bath Tubs (Copper)

(See also Boilers, Copper Range.)

Blessing, C. A. 516 Montgomery av, Phila., Pa.
Day Metallic Mfg. Co., 176 Jones, Detroit Mich.
Day-Ward Co., Warren, O.
Fleck Bros. Co., 44 N 5th, Phila., Pa.
Jochum, Andrew, 148 E. 50th, New York
Leclair Mfg. Co., Edwardsville, Ill.
Nelson, N. O. Mfg. Co., St. Louis, Mo.
Ronalds & Johnson Co., 43 Boerum pl, Brook-
lyn, N. Y., & 54 Cliff, New York.
Rumsey, L. M. Mfg. Co., 812 N 2nd, St. Louis,
Mo.
Seestedt Bros. Mfg. Co., Romulus, Mich.
Swain Mfg. Co., 7th & Morris, Phila., Pa.
Trageser, John Steam Copper Works, 427 W
26th, New York.
Walker Mfg. & Supply Co., Detroit, Mich.

Bath Tubs (Double Seamed Solid Copper)

Walker Mfg. & Supply Co., Detroit, Mich.

Bath Tubs (Enameled Iron)

Barnes Mfg. Co., Mansfield, O.
Cahill Iron Works, Chattanooga, Tenn.
Colwell Lead Co., 51 Centre, New York
Day-Ward Co., Warren, O.
Humphryes Mfg. Co., Mansfield, O.
Iron City Sanitary Mfg. Co., 238 3d av, Pitts-
burg, Pa. Works, Zellenople, Pa.
Kohler's, J. M. Sons Co., Sheboygan, Wis.
Limberg Foundry & Enameling Works, Mont-
gomery rd & Symmes, Cincinnati, O.
Lipp, Louis Co., Winton pl, Cincinnati, O.
McCrum-Howell Co., 46 E 20th, New York
McVay & Walker, Braddock, Pa.
Rundle Mfg. Co., Milwaukee, Wis.
Standard Sanitary Mfg. Co., Pittsburg, Pa.
STEIN, HENRY, 48 Cliff, N. Y. (See
adv. index, end of book.)
Stuart & Peterson Co., Burlington, N. J.
United States Sanitary Mfg. Co., Arrott bldg.,
Pittsburg, Pa., & Monaca, Pa.
Weiskittle, Anton & Son, Washington & Ali-
ceanna, Baltimore, Md.
Wolff, L. Mfg. Co., 117 W Lake, Chicago, Ill.

Bath Tubs (Folding)

Davol Rubber Co. ("Robinson" Rubber), Provi-
dence, R. I.
Folding Bath Tub Co., Marshall, Mich.
Gray Mfg. Co., Muskegon, Mich.

Bath Tubs (Galvanized Steel Enameled)

Day-Ward Co., Warren, O.
Walker Mfg. & Supply Co., Detroit, Mich.

Bath Tubs (Infants')

Geuber & Paeschke Mfg. Co., (Galvanized &
Japanned Iron, etc.), Milwaukee, Wis.

Bath Tubs (Porcelain)

American Porcelain Co., New Brighton, Pa.
 Brian Pottery Co., Trenton, N. J.
 Monument Pottery Co., Trenton, N. J.
 Mott, J. L. Iron Works, 118 5th av, New York
 Perth Amboy Ceramic Co., Perth Amboy, N. J.
 Standard Sanitary Pottery Co., Elizabeth, N. J.
 Trenton Fire Clay & Porcelain Co., Trenton, N. J.
 Trenton Potteries Co., Trenton, N. J.

Bath Tubs (Sheet Steel)

Booth, Clarence H., (Pressed Steel Rolled-Rim), Detroit, Mich.
 Day Metallic Mfg. Co. (& Steel Clad), Detroit, Mich.
 Day-Ward Co. (Cased, Nickeloid & also Copper-lined), Warren, O.
FRIEDLEY - VOSHARDT CO. (Inc.), 194 Mather, Chicago, Ill. (See adv. index, end of book)
 Leclair Mfg. Co., ("and Steel-clad"), Edwardsville, Ill.
 Seamless Steel Bathtub Co., Union Trust bldg, Detroit, Mich.
 Standard Sanitary Mfg. Co. of Michigan, 942 Champplain, Detroit, Mich.
 Trageser's, Jno., Steam Copper Works, 447 W. 26th, N. Y.
 Walker Mfg. & Supply Co., Detroit, Mich.

Bath Tubs (Slate)

(See Laundry Tubs, Slate.)

Bath Tubs (Tin)

Dover Stamping & Mfg. Co. ("Enameled White Inside"), Cambridge, Mass.

Baths (Needle & Shower)

Adee, Fred & Co., 44 Cliff, New York
 Cooper, W. S. Brass Works, Phila., Pa.
 Clow, Jas. B. & Sons, 342 Franklin, Chicago, Ill.
 Dalton-Ingersoll Mfg. Co., 169 High, Boston, Mass.
 Edwardsville Brass Co., Edwardsville, Ill.
 Haines, Jones & Cadbury Co., 1136 Ridge av, Phila., Pa.
 Hoffman-Billings Mfg. Co., 96 2d, Milwaukee, Wis.
 Huber, Henry Co., 244 5th av, New York
 Illinois Malleable Iron Co., 30 W Monroe, Chicago, Ill.
 McElraevy & Hauck (Enameled Iron & Solid Porcelain Nickel Plated Shower), 440 Broadway, Brooklyn, N. Y.
 Mayor, Lane & Co., 128 White, New York
 Meyer-Sniffen Co. (Ltd.), 11 W 36th, New York
 Mott, J. L. Iron Works, 118 5th av, New York
 Nelson, N. O. Mfg. Co., St. Louis, Mo.
 Peck Bros. & Co., 125 Chestnut, New Haven, Conn.
 Rundle-Spence Mfg. Co., Milwaukee, Wis.
 Sanitary Company ("Paragon"), 9 Water, Cleveland, O.
 Speakman Supply & Pipe Co., Wilmington, Del.
 Street & Kent Mfg. Co., 41 Fulton, Chicago.
 Taylor, Geo., 97 Cliff, New York
 Union Brass Works Co. (Soderlund Shower), 7 Sherman Chas'n, Boston, Mass.
 Victor Excelsior Brass Works, 128 White, N. Y.
 Wolff, L. Mfg. Co., 117 W Lake, Chicago, Ill.

Baths (Plunge & Shower for Ships)

Dalton-Ingersoll Co., Boston, Mass.

Baths (Portable Shower)

Chicago Shower Mfg. Co., 185 Dearborn, Chicago, Ill.
 Cline, L. Mfg. Co., 1239 Wabash av, Chicago, Ill.
 Mitchell & Van Meter Co. ("Cascade"), Linfield, Pa.
 Wolverine Brass Works, Grand Rapids, Mich.

Batteries (Automobile)

(See Batteries, Dry; also Batteries, Storage.)

Batteries (Closed Circuit)

Ansonia Electrical Co., Ansonia, Conn.
 Bates, Clyde R., Monadnock blk., Chicago, Ill.
 Battery Supplies Co. ("Gladstone-Leland"), Newark, N. J.

Bunnell, J. H. & Co., 20 Park pl, New York
 Clark & Mills Electric Co. (The Excello), 543 Boylston, Boston, Mass.
 Delta Mfg. Co. ("Delta"), Bloomfield, N. J.
 Edison Mfg. Co., 31 Union sq, New York, & Orange, N. J.
 Electric Storage Supply Co., 297 South, Boston, Mass.
 Electrical Appliance Co., 136 Longworth, Cincinnati, O.
 Gordon Battery Co., 439 E 144th, New York.
 International Brass & Electrical Co., 76 Beekman, New York
 Manhattan Electrical Supply Co., 7 Park pl, New York
 National Carbon Co., Cleveland, O.
 Novelty Electric Co., 50 N 4th, Phila., Pa.
 Nungesser Electric Battery Co., 29 King, Cleveland, O.
 Partrick, Carter & Wilkins, 22d & Wood, Phila., Pa.
 Pearce, Fred'k Co., 18 Rose, New York
 Pullen, Leon, W. Electric Co., 618 Chestnut, Phila., Pa.
 Viaduct Mfg. Co., 10 S Howard, Baltimore, Md.
 Waterbury Battery Co., Waterbury, Conn.
 Western Electric Co., 259 S Clinton, Chicago, Ill., & 57 Bethune, New York
 White, S. S., Dental Mfg. Co., 1130 Chestnut, Phila., Pa.

Batteries (Dry)

Allen, D. H. & Co., Miamisburg, O.
 Altman & Co. (Altman Twin Triplet), 69 Dearborn, Chicago.
 American Electrical Novelty & Mfg. Co. ("Ever Ready"), 308 Hudson, New York
 Black Hawk Battery Co. ("Black Hawk"), Monadnock blk, Chicago, Ill.
 Bunnell, J. H. & Co., 20 Park pl, New York
 Burnley Battery & Mfg. Co., Painesville, O.
 Chloride of Silver Dry Cell Battery Co., 409 N Paca, Baltimore Md.
 Connecticut Tel. & Electric Co. (Inc.), Meriden, Conn.
 Delta Mfg. Co. ("Delta"), Bloomfield, N. J.
 Eastern Carbon Works, Jersey City, N. J.
 Electric Appliance Co., Burlington, Kans.
 Electric Contract Co. ("Ecco"), 202 Centre, New York
 Electric Gas Lighting Co. ("Samson"), 115 Purchase, Boston, Mass.
 Empire State Dry Battery Co. ("White Star"), 74 Fulton, New York
 French Battery Co., Madison, Wis.
 G. & C. Dry Battery Mfg. Co., 55 W 3d, New York
 Harvard Electric Co., 224 S Clinton, Chicago, Ill.
 Hubbs-Near Electrical Mfg. Co. ("20th Century"), Butler, O.
 Keystone Electric Telephone Co., 822 5th av, Pittsburgh, Pa.
 La Salle Electric Co., 47 W Lake, Chicago, Ill.
 Lincoln Electric Co. ("Enburo"), 1 Union sq, New York
 Lion Dry Battery Co., 241 Centre, New York
 Manhattan Electrical Supply Co. ("Red Seal" & "Mesco"), 17 Park pl, New York
 National Carbon Co. ("Columbia"), Cleveland, O.
 New Excelsior Dry Battery Mfg. Co. ("Eclipse" for Automobile, Cycles, etc.), 32 Vesey, N. Y.
 Nungesser Electric Battery Co., 29 King, Cleveland, O.
 Ohio Electric Works, 76 Ellen, Cleveland, O.
 P. & W. Electric Co., Newburgh, N. Y.
 Partrick, Carter & Wilkins, 22d & Wood, Phila., Pa.
 Roche, Wm. Dry Battery Co. ("New Standard"), 42 W B'way, New York
 Royal Battery Co. (Geece's Ignition), 143 Chambers, New York
 Sandusky Supply & Construction Co., (Stack), Sandusky, O.
 Semi-Dry Battery Co. ("Dunn"), 5th & Essex, Harrison, N. J.
 Sibley & Pitman ("Climax" Auto Cells for Automobile & Gas Engine Ignition), 26 Warren, New York
 Stanley & Patterson ("Exerter"), 23 Murray, New York
 Swan, Wm. J. ("Electrotonic" & "Swan" Semi-Dry), Middletown, Conn.
 Tardie, Emil J., 221 6th av, New York
 Thornton Electric Works (Inc.), 3 E. 14th, N. Y.
 United Electrical Mfg. Co. ("Crescent"), 69 Murray, New York
 Vallee, Garrett A. & Co. ("Ajax"), 816 Arch, Phila., Pa.
 Voltamp Electric Mfg. Co., 407 N Paca, Baltimore, Md.
 Waterbury Battery Co. ("Gee Whiz"), Waterbury, Conn.

Wesco Supply Co. ("Red Shield"), 7th c Clark av, St. Louis, Mo.
 West Coast Mfg. Co. ("Sunset"), 697 Merchant, San Francisco, Cal.
 Western Electric Co., 259 S. Clinton, Chicago, & 57 Bethune, New York.

Batteries (Open Circuit)

Ansonia Electrical Co., Ansonia, Conn.
 Boston Electric Co. (Leclanche), 29 Harrison av, Boston, Mass.
 Bunnell, J. H. & Co., 20 Park pl, New York
 Delta Mfg. Co. ("Delta" Ignition), Bloomfield, N. J.
 Electric Goods Mfg. Co. ("Samson," "Leclanche" & "Nomax"), 115 Purchase, Boston, Mass.
 Gordon Battery Co. ("London," "Law"), 439 E. 144th, New York.
 Hirlimann, Chas. J. (Champion), 17 Lighthouse, New York.
 Holtzer-Gabot Electric Co., Brookline, Mass.
 La Salle Electric Co., 47 W. Lake, Chicago, Ill.
 Leclanche Battery Co. (Axo, Gonda & Vole), 117 E. 131st, New York.
 Manhattan Electrical Supply Co., 17 Park pl, New York.
 Minneapolis Electric & Cons. Co. (Crescent), 17 S 4th, Minneapolis, Minn.
 National Carbon Co., Cleveland, O.
 Novelty Electric Co. (acid), 52 N. 4th, Philadelphia, Pa.
 Nungesser Electric Battery Co. (Chloride of Silver), 29 King, Cleveland, O.
 Partrick, Carter & Wilkins, 22d & Wood, Phila., Pa.
 Phoenix Battery Mfg. Co., St. Louis, Mo.
 Pullen, Leon W., Electric Co., 618 Chestnut, Phila., Pa.
 Rhode Island Telephone & Electric Co., Providence, R. I.
 Stanley & Patterson ("Gold Medal" & "Faraday"), 23 Murray, New York
 Van Houten & Ten Broeck (Fitch), 300 4th av, New York
 Waterbury Battery Co. ("Victor"), Waterbury, Conn.
 Western Electric Co., 259 S Clinton, Chicago, & 57 Bethune, New York

Batteries (Stamp)

(See Mills, Stamp)

Batteries (Storage)

American Battery Co., 172 S Clinton, Chicago
 Battery Power Co., 247 Madison, Milwaukee, Wis.
 Challenge Mfg. Co. ("Challenge"), Newark, N. J.
 Champion, Abert Co. ("B. G. S." Imported), 541 Tremont, Boston, Mass.
 Chicago Battery Co. ("Duro"), 1255 Michigan av, Chicago, Ill.
 Churcher Elec. & Mfg. Co., Cincinnati, O.
 Clark & Mills (Excello), 543 Boylston, Boston, Mass.
 Columbia Battery Co., Milwaukee, Wis.
 Dayton, Electrical Battery Co., Dayton, O.
 Dayton Electrical Mfg. Co. ("Apple"), Dayton, O.
 Dayton Mfg. Co., ("Silver"), Dayton, O.
 Domestic Electric Equipment Co., 503 W 44th, New York
 Edison Storage Battery Co. ("Edison"), Orange, N. J.
 Electric Storage Battery Co., 19th & Allegheny av, Philadelphia, Pa.
 Electric Supply & Battery Co. (Ignition only), 7510 Woodland av, S E, Cleveland, O.
 Electric Supply & Storage Battery Co., Columbus, O.
 Electrical Appliance Co. (Small), 528 Walnut, Cincinnati, O.
 Euker, Geo. W. Co., Richmond, Va.
 Evansville Battery & Electrical Co. ("Porter"), Evansville, Ind.
 General Storage Battery Co. ("Bijour" High Duty), 42 B'way, New York
 Gould Storage Battery Co., 1 W 34th, N. Y.
 Hasche Compound Storage Battery Co., Chicago, Ill.
 Hatch Accumulator Co., 283 Franklin, Boston, Mass.
 Hauss, D. J., Mitchell bldg, Cincinnati, O.
 Helios Mfg. Co. ("Morrison"), Garden nr Brill, Bridesburg, Phila., Pa.
 International Storage Battery Co., Quincy, Mass.
 Ironsides Battery Co., Cold Spring, N. Y.
 Knowles, C. S. ("Speed"), Boston, Mass.
 Look Electric Co., Chicago, Ill.

Mac Rae, Hector C., 316 St. Paul, Baltimore, Md.
 Michigau Storage Battery Co., Detroit, Mich.
 Miller Signal Co. ("Bestogo"), 298 W Jackson
 boul., Chicago, Ill.
 Muller Porous Plate Accumulator Co., 205 W
 41st, New York
 National Battery Co. ("National," "Sperry"),
 366 Mass. av., Buffalo, N. Y.
 New England Motor Co., Lowell, Mass.
 Northwestern Storage Battery Co., Milwaukee,
 Wis.
 Phila. Storage Battery Co. (for Commercial &
 Pleasure Vehicles), Emerald & Tioga, Phila.,
 Pa.
 Pile-Bloc Co., 253 B'way, New York, N. Y.
 Porter Battery Co., 195 S Canal, Chicago, Ill.
 Reuterdahl Electric Co., Providence, R. I.
 R. I. Electromobile Co., 32 Fountain, Provi-
 dence, R. I.
 Roche, Wm. Dry Battery Co. ("New Standard"),
 42 W B'way, New York
 Royal Battery Co. ("Geecee"), 143 Chambers,
 New York
 Sigler Bros. Co. ("Willard"), 241 Euclid av.,
 Cleveland, O.
 Smith Storage Battery Co., Zoar, O.
 Standard Storage Battery Co., Little Falls,
 N. Y.
 Storage Battery Equipment Co., Detroit, Mich.
 Storage Battery Supply Co., 239 E 27th, New
 York
 Toledo Storage Battery Co. ("Miller"), Toledo,
 O.
 Tray Plate Battery Co., Binghamton, N. Y.
 United States Storage Battery Co., New
 Rochelle, N. Y.
 Universal Elec. Storage Battery Co. ("Morri-
 son"), Chicago, Ill.
 Vesta Accumulator Co., 1336 Michigan av., Chi-
 cago, Ill.
 Western Storage Battery Co., Indianapolis, Ind.
 White City Electric Co., Chicago, Ill.
 Willard Storage Battery Co., Cleveland, O.
 Witherbee Igniter Co. (Ignition only), 27
 Thames, New York

Batteries (Storage, Electric Railway)

(See Batteries, Storage.)

Battery Accessories

Storage Battery Supply Co. (of all kinds), 239
 E 27th, New York

Battery Chemicals

Doggett, Stanley, 101 Beekman, New York
 Elmer & Amend, 18th & 3d av., New York
 General Chemical Co., 25 Broad, N. Y.
 Grasselli Chemical Co., Cleveland, O., & 63
 Wall, New York
 Innis & Co., 181 Front, New York
 Kalbfleisch, E. L. & Son, 56 Pine, N. Y.
 Kalbfleisch, Franklin H. Co., 35 Burling Slip,
 New York
 Klipstein, A. & Co. (Dealers), 122 Pearl, N. Y.
 Merck & Co., 15 University pl., New York
 Merrimac Chemical Co., 75 Broad, Boston, Mass.
 Nicholas Copper Co., 25 Broad, New York
 Powers-Weightman-Rosengarten Co., 9th & Par-
 rish, Phila., Pa.
 Tech, J. L. & J., 25 Bridge, New York
 Western Chemical Mfg. Co., S 7th & W
 Bayard, Denver, Col.
 Western Electric Co., 259 S Clinton, Chicago,
 Ill., & 57 Bethune, New York

Battery Coppers

Baltimore Copper Smelting & Rolling Co.,
 Keyser bldg., Baltimore, Md.
 Beattie Zinc Works Co., Reading, Mass.
 Boston Electric Co., 29 Harrison av., Boston,
 Mass.
 Bryant Zinc Co., 158 W Van Buren, Chicago,
 Ill.
 Edes Mfg. Co., Plymouth, Mass.
MERCHANT & EVANS CO. (Inc.)
 (Jobbers), 517 Arch, Phila., Pa. (See adv.
 index & branch offices, end of book)
 Seymour Mfg. Co. (Plates & Rods), Seymour,
 Conn.
 Western Electric Co., 259 S Clinton, Chicago,
 Ill., & 57 Bethune, New York

Battery Jars

Brookfield Glass Co. (Glass), 220 B'way, New
 York
 Cumberland Glass Mfg. Co., Bridgeton, N. J.
 Fidelity Pottery Co., Trenton, N. J.

Gayner Glass Works, Salem, N. J.
 Gillinder & Sons, 135 Oxford, Phila., Pa.
 Hemingray Glass Co., Covington, Ky.
 Murray, Jas. J. & Co., Trenton av., Willard
 & Collins, Phila., Pa.
 Illinois Glass Co., 612 N 2d, St. Louis, Mo.
 Works, Alton, Ill.
RODEFER, T. A., Bellaire, O. (See
 adv. index, end of book)
 Salem Glass Works, Salem, N. J.
 Whitall, Tatum Co., 410 Race, Philadelphia,
 Pa.
 Whitney Glass Works, 227 S Front, Phila., Pa.

Battery Jars (Rubber)

American Hard Rubber Co., 11 Mercer, N. Y.
 Diamond Rubber Co., Akron, O.
 Morgau & Wright (Inc.), 226 Jefferson av., De-
 troit, Mich.
 Vulcanized Rubber Co., 110 Grand, New York

Battery Zincs

Beattie Zinc Works Co., Reading, Mass.
 Bryant Mfg. Co. (All Patterns), 158 W Van
 Buren, Chicago, Ill.
 Bryant Zinc Co., 71 W Adams, Chicago, Ill.
 Edes Mfg. Co., Plymouth, Mass.
 Magnus Metal Co., General Offices, 830 Ellicott
 sq., Buffalo, N. Y.
 Matthiessen & Hegeler Zinc Co. ("Leclanche
 Battery Bars"), La Salle, Ill.
 National Carbon Co., Cleveland, O.
 Phillips, E. & Sons, South Hanover, Mass.
PRESCOTT, J. B. & SON, Webster,
 Mass. (See adv. index, end of book)
 Waterbury Battery Co., Waterbury, Conn.
 Western Electric Co., 259 S Clinton, Chicago,
 Ill., & 57 Bethune, New York

Beams (Steel Plow)

(See Plow Beams, Steel.)

Bearings (Anti-Friction)

(See also Babbitt Metal.)

Ajax Metal Co., 46 Richmond, Phila., Pa.
 Allan, A. & Son ("Allan's" Red Anti-Friction
 Metal), 486 G'wich, New York
 Arguto Oilless Bearing Co., 149 Berkley Gtn.,
 Phila., Pa.
 Atlantic Brass Co. (the A. B. C.), 192 B'way,
 Aurora, Ill.
 Besly, Chas. H. & Co. (Helmet), Chicago, Ill.
 Blake, Edwin J., Hartford, Conn.
 Brady Brass Co., 204 10th, Jersey City, N. J.
 Bridgeport Deoxidized Bronze & Metal Co.,
 Bridgeport, Conn.
 Bronzite Metal Co., Torrington, Conn.
BROWN, A. & F. CO., 25 Dey, New
 York. Works: Elizabethport, N. J. (See
 adv. index, end of book)
 Buckeye Iron & Brass Works, Dayton, O.
 Central Union Brass Co., 811 N 2d, St. Louis,
 Mo.
 Clum & Atkinson, Rochester, N. Y.
 Columbia Machine Works & Malleable Iron Co.,
 269 Chestnut, Brooklyn, N. Y.
DODGE MFG. CO., Mishawaka, Ind.
 (See adv. index & branch offices, end of book)
 Eastwood Wire Mfg. Co., Belleville, N. J.
 Empire Metal Co., 118 Grape, Syracuse, N. Y.
 Eureka Tempered Copper Works, North East,
 Pa.
 Falcon Bronze Co., Youngstown, O.
 Frictionless Metal Co., Richmond, Va.
 Fulton Iron & Engine Works, 28 Brush, De-
 troit, Mich.
 Graham, Jas. & Co., New Haven, Conn.
 Garratt, J. W. Brass Foundry Co., 2028 Wal-
 nut, St. Louis, Mo.
 Glacier Metal Co., Richmond, Va.
 Graphite Lubricating Co. (Graphite & Bronze),
 Bond Brook, N. J.
HARDY, WM. A. & SONS CO., Fitch-
 burg, Mass. (See adv. index, end of book)
 Hayden, J. M. & Co., Grand Rapids, Mich.
 Hewitt Mfg. Co., Railway Exchange bldg, Chi-
 cago, Ill.
 Hiertz, Theo. & Son (Nonparel), 10th &
 Poepping, St. Louis, Mo.
 Hoyt Metal Co., 4th & Locust, St. Louis, Mo.
 & Perth Amboy, N. J.
 Hudson Rolling Mill Co. ("Signal" Metal),
 Bloomfield, N. J.
 Jefferson Brass Foundry ("The Eureka"), 209
 King, Brooklyn, N. Y.
 Jones, W. A., Foundry & Machine Co., 143
 W North av., Chicago, Ill.
 Keystone Steel Co. ("Hastings"), Sebring, O.
 Lawrenceville Bronze Co., 3046 Penna av., Pitts-
 burg, Pa.
 Lissberger, Marks & Son, 397 W 12th, New
 York, & 375 Driggs av., Brooklyn, N. Y.

McHatton Smelting Co., 1500 Washington av.,
 Phila., Pa.
 Magnolia Metal Co., 511 W 13th, New York
 Magnus Metal Co. (Magnus Metal, Tanite
 Bronze & Lead Lined Journal Bearings),
 Fidelity Trust bldg., Buffalo, N. Y.
 Meneely, Geo. R. & Son, Watervliet, N. Y.
 Merrill, W. B. & Co., 74 India, Boston, Mass.
 Metal Sales Co. ("Renown"), Citizens bldg.,
 Cleveland, O.
 More-Jones Brass & Metal Co., 3138 N B'way,
 St. Louis, Mo.
 Mowry & Phillips Co., 197 High, Boston, Mass.
 Muzzy-Lyon Co., 58 Woodward av., Detroit,
 Mich.
 National Fulton Brass Mfg. Co., 28 Brush, De-
 troit, Mich.
 National Lead Co., 100 William, New York
 North American Metaline Co. (Metaline), Long
 Island City, N. Y.
 Ohio Brass Co., Mansfield, O.
 Peerless Metal Refining Co., Kansas City, Mo.
 Phosphor Bronze Smelting Co., 2200 Washing-
 ton av., Phila., Pa.
 Pittsburg White Metal Co., 3116 Penn av.,
 Pittsburg, Pa., & 160 Leroy, N. Y.
 Portland Co., 58 Fore Portland, Me.
 Reeves, Paul S. & Son, 413 Catharine, Phila.,
 Pa.
 Rowell, W. G. Co., Bridgeport, Conn.
 Schultz, A. & Co. ("Eureka"), Baltimore, Md.
 Spacke, F. W. Co., Madison, Merrill & S Penn,
 Indianapolis, Ind.
 Stiles, A. C. Anti-Friction Metal Co., New
 Haven, Conn.
 U. S. Bronze Co., 145 Columbus, Cleveland, O.
 Williams, E. A. & Son, Jersey City, N. J.
 Wing, J. T. & Co. (Graphite), 19 Woodward av.,
 Detroit, Mich.

Bearings (Ball)

(See also Balls, Steel; also Bearings, Roller.)

Acme Ball Bearing Co., Chappagua, N. Y.
 American Ball Bearing Co., Cleveland, O.
 American Ball Co., Providence, R. I.
AMERICAN WELL WORKS, Aurora,
 Ill. (See adv. index & branch offices, end
 of book)
 Auburn Ball Bearing Co., Rochester, N. Y.
 Ball Bearing Co. (Thrust, etc.), Merion av &
 N 48th, Phila., Pa.
 Baltimore Ball Bearing Co., Calvert bldg, Bal-
 timore, Md.
 Bantam Anti-Friction Co., Bantam, Conn.
 Boston Gear Works (Thrust Collar, etc.), Nor-
 folk, Downs, Mass.
 Camel Co. ("Hartman" Center Plate & Side
 for Cars), Old Colony bldg, Chicago, Ill.
 Chapman Double Ball Bearing Co. of America,
 (Double, for Shafting, etc.), 136 Liberty,
 Garford Co., Elyria, O.
 Guinn Ball Bearing Co., 361 North, Baltimore,
 Md.
 Hess-Bright Mfg. Co., 245 N Broad, Philadel-
 phia, Pa.
 Johnson & Sharp Mfg. Co., (Hollow Steel),
 Ottumwa, Ia.
 Pressed Steel Mfg. Co. ("Knife's"), Ridge av,
 & Willow, Phila., Pa.
 Parks Ball Bearing Machine Co. ("For Ma-
 chinery"), Cincinnati, O.
 Rivett Lathe & Bearing Co. ("Rivett"), Brogh-
 ton, Boston, Mass.
 Sartus Ball Bearing Co., 155 Spring, N. Y.
 Standard Roller Bearing Co., (Thrust, etc.),
 N 48th & Girard av., Phila., Pa.
WORCESTER PRESSED STEEL CO.
 Worcester, Mass. (See adv. index, end of
 book)

Bearings (Bronze Metal)

Damascus Bronze Co. ("Damascus"), Alle-
 gheny, Pa.
 Eureka Tempered Copper Works, North East,
 Pa.
 Graphite Lubricating Co., Bound Brook, N. J.
 Hauck Mfg. Co. (Carbonized Bronze), Cincin-
 nati, O.
 Lawrenceville Bronze Co., 31st & Penn av,
 Pittsburg, Pa.
LUMEN BEARING CO., Buffalo, New
 York. (See adv. index, end of book)
 Pittsburg White Metal Co., Pittsburg, Pa.

Bearings (Car Journal)

(See Bearings, Journal)

* Bearings (Cone)

AMERICAN WELL WORKS, Aurora,
 Ill. (See adv. index & branch offices, end
 of book)

Bearings (Electrical)

Eureka Tempered Copper Works, North East,
Frictionless Metal Co., Richmond, Va. Pa.
Holmes Fibre Graphite Mfg. Co., 5155 Wake-
field, Phila., Pa.

LUMEN BEARING CO., Buffalo, New
York. (See adv. below)

Magnus Metal Co. (Armature & Motor), General
Offices, Fidelity Trust bldg, Buffalo, N. Y.
Muzzy-Lyon Co., 58 Woodward av, Detroit,
Mich.

Ohio Brass Co., Mansfield, O.
Pittsburg White Metal Co., 3116 Penn av,
Jittsburg, Pa., & 160 Leroy, New York
Reeves, Paul S. & Son, 1413 Catharine, Phila.,
Pa.

St. Louis Car Co. (For Cars), 8000 N B'way,
St. Louis, Mo.
Wing, J. T. & Co. (Graphite), 19 Woodward
av, Detroit, Mich.

Bearings (Graphite)

Edna Smelting & Refining Co., 525 Reading rd,
Cincinnati, O., & Monadnock Blk., Chicago.
Graphite Lubricating Co., Bound Brook, N. J.
Holmes Fibre Graphite Mfg. Co., 5155 Wake-
field Gtn., Phila., Pa.
Wing, J. T. & Co., 19 Woodward av, Detroit,
Mich.

Bearings (Hard Fibre)

(See Fibre Mfrs., Hard.)

Bearings (Journal)

Acme Journal Bearing Co., 49 S Canal, Chica-
go, Ill.

Ajax Metal Co., 46 Richmond, Phila., Pa.
Atlantic Brass Co. (The "A. B. C."), 192
Aurora Metal Co., Aurora, Ill. B'way, N. Y.

Besley, Chas. H. & Co. ("Hemlet"), 15 S Clin-
ton, Chicago, Ill.

Blake, Edwin J. (Car & Locomotive), Hart-
ford, Conn.

Brady Brass Co., Jersey City, N. J.
Bridgeport Deoxidized Bronze & Metal Co.,
Bridgeport, Conn.

BROWN, A. & F. CO., 25 Dey, New
York. Works: Elizabethport, N. J. (See adv.
index, end of book)

Buda Foundry & Mfg. Co. (Car, etc.), Railway
Exchange bldg, Chicago, Ill.; Works: Har-
vey, Ill.

Chain Belt Co. (Solid), Milwaukee, Wis.
Climax Bearing Co. ("Camel"), Detroit, Mich.

Clum & Atkinson, Rochester, N. Y.
Columbia Machine Works & Malleable Iron Co.,
269 Chestnut, Brooklyn, N. Y.

Damascus Bronze Co., Allegheny, Pa.
Diamond State Car Spring Co., Wilmington, Del.

DODGE MFG. CO., Mishawaka, Ind.
(See adv. index & branch offices, end of book)

Edna Smelting & Refining Co. (Porteuc Graph-
ite), 525 Reading rd, Cincinnati, O.

Electric Service Supply Co., 1024 Filbert,
Phila., Pa.

Eureka Tempered Copper Works, North East,
Falcon Bronze Co., Youngstown, O. Pa.

Frictionless Metal Co., Richmond, Va.
Garratt, J. W. Brass Foundry Co., 2028 Wal-
nut, St. Louis, Mo.

Graham, Jas. & Co., New Haven, Conn.
Herron Pump & Foundry Co., Chattanooga,
Tenn.

Hewitt Mfg. Co., Railway Exchange bldg, Chi-
cago, Ill.

Hyatt Roller Bearing Co., Harrison, N. J.
Kirby Equipment Co., Railway Exchange, Chi-
cago, Ill.

LUMEN BEARING CO., Buffalo, New
York. (See adv. below)

McGuire-Cummings Mfg. Co., 122 N Sangamon,
Chicago, Ill.

Maguolia Metal Co., 511 W 13th, New York
Magnus Metal Co. (Lead Lined, etc.), General
Offices, Fidelity Trust bldg, Buffalo, N. Y.

Meneely, Geo. R. & Son, Watervliet, N. Y.
More-Jones Brass & Metal Co., 3138 N B'way,
St. Louis, Mo.

Muzzy-Lyon Co., 58 Woodward av, Detroit, Mich.
National Brass Mfg. Co., Kansas City, Mo.

National Brass Mfg. Co., Kansas City, Mo.
National Fire Appliance Co., 161 Franklin, Bos-
ton, Mass.

National-Fulton Brass Mfg. Co., Detroit, Mich.
National Lead Co., 100 William, New York,
also branches

New Era Mfg. Co., Kalamazoo, Mich.
Noyes Brass Works, Erie, Pa.

Ohio Brass Co., Mansfield, O.
Phosphor-Bronze Smelting Co., Phila., Pa.

Reeves, Paul S. & Son, 1415 Catharine, Phila.,
Pa.

Rogers Metal Works (Car), Kansas City, Mo.
Rowell, W. G. Co., Bridgeport, Conn.

Simplex Railway Appliance Co. (Susmihl Roll-
er Side), Chicago, Ill., & Hammond, Ind.

Spacke, F. W. Co., Indianapolis, Ind.
Spiral Bearing & Supply Co., 74 B'way, New
York

St. Louis Car Co. (Steam & Electric), 8000 N
B'way, St. Louis, Mo.

Stiles, A. C. Metal Co. ("Stiles" Locomotive
Driving Journal & Car Bearings), New
Haven, Conn.

Streeter Journal Bearing Co., Monadnock blk.
Chicago, Ill.

Taylor Electric Truck Co., Troy, N. Y.
Universal Car Bearing Co., 84 Van Buren, Chi-
cago, Ill., & 11 B'way, New York

U. S. Bronze Co., 145 Columbus, Cleveland, O.
Watson, Frye & Co., Bath, Me.

Wharton, Wm., Jr., & Co. (Inc.), 25th & Wash-
ington av, Phila., Pa.

Williams, E. A. & Son, Jersey City, N. J.

Bearings (Lead Lined)

Bridgeport Deoxidized Bronze & Metal Co.,
Bridgeport, Conn.

Reeves, Paul S. & Son, 1415 Catharine, Phila-
delphia, Pa.

Bearings (Locomotive)

(See Bearings, Journal.)

Bearings (Lumen Bronze)

LUMEN BEARING CO., Buffalo, New
York. (See adv. below)

Bearings (Motor)

Brady Brass Co., 204 10th, Jersey City, N. J.
Columbia Machine Works & Malleable Iron Co.,
269 Chestnut, Brooklyn, N. Y.

Edna Smelting & Refining Co., 525 Reading rd,
Cincinnati, O., & Monadnock blk, Chicago,
Ill.

Eureka Tempered Copper Works, North East,
Frictionless Metal Co., Richmond, Va. Pa.

**GENERAL ELECTRIC CO., Schene-
ctady, N. Y., & 44 Broad, New York.** (See
adv. index & branch offices, end of book)

Graphite Lubricating Co. (Graphite & Bronze),
Bound Brook, N. J.

LUMEN BEARING CO., Buffalo, New
York. (See adv. below)

Mansfield Tempered Copper Co., Mansfield, O.
Muzzy-Lyon Co., 58 Woodward av, Detroit, Mich.

National Lead Co., 100 William, New York
New Era Mfg. Co., Kalamazoo, Mich.

Newell, J. F. & Co., Gardiner, Me.
Ohio Brass Co., Mansfield, O.

Pittsburg White Metal Co., 3116 Penn av,
Pittsburg, Pa., & 160 Leroy, N. Y.

Reeves, Paul S. & Son, 1413 Catharine, Phila.,
Pa.

Ridlon, Frand Co., 200 Summer, Boston, Mass.
Rowell, W. G. & Co. (Vulcan Bronze), Bridge-
port, Conn.

Wing, J. T. & Co. (Graphite), 19 Woodward
av, Detroit, Mich.

Bearings (Oilless)

Arguto Oilless Bearing Co., Wayne Junction,
Philadelphia, Pa.

North American Metaline Co. ("Metaline"),
Self Lubricating, 4 West av, Long Island
City, N. Y.

Bearings (Phosphor Bronze)

(See Castings, Phosphor Bronze.)

Bearings (Roller)

(See also Bearings, Ball; also Bearings, Side)
American Henderson Roller Bearing Co. ("Hen-
derson"), Railway Ex bldg, Chicago, Ill.

American Roller Bearing Co., South Framing-
ham, Mass.

AMERICAN WELL WORKS, Aurora,
Ill. (See adv. index & branch offices, end
of book)

Anti-Friction Journal Box Co. ("Allen"), 716
E 1st Los Angeles, Cal.

Arguto Oilless Bearing Co., 149 Berkley Gtn,
Phila., Pa.

Ball Bearing Co. (Thrust, etc.), Merion av &
N 48th, Phila., Pa.

Bantam Anti-Friction Co., Bantam, Conn.
Gillette Roller Bearing Co., Grand Rapids,
Mich.

Hyatt Roller Bearing Co., Harrison, N. J.
Iroquois Machine Co., Providence, R. I., & 150
Nassau, N. Y.

McKeel, Geo. A. & Co., Jackson, Mich.
Moffatt Railway Bearing Co., 25 Broad, New
York

Moffett Vehicle Bearing Co., Saginaw, Mich.
Standard Machinery Co., Providence, R. I.

Standard Railway Equipment Co. (Pneumatic),
Nat'l Bank of Commerce bldg, St. Louis,
Mo.

Standard Roller Bearing Co. (Thrust, etc.),
48th & Girard av, Phila., Pa.

Timken Roller Bearing Axle Co. (Vehicle &
Automobile), Canton, O.

U. S. Roller Bearing Co., 25 Broad, New York

Bearings (Self-Oiling)

Arguto Oilless Bearing Co., 149 Berkley, Gtn.,
Phila., Pa.

Brill, J. G. Co., 62d & Woodland av, Phila., Pa.

BROWN, A. & F. CO., 25 Dey, New
York. Works: Elizabethport, N. J. (See adv.
index, end of book)

LUMEN BRONZE BEARINGS

Twenty Per Cent. Lighter Than Ordinary Bronze. Will Not Cut Journals or Pins.
Combines the Strength of Bronze with the Anti-Frictional Qualities of Babbitt.

In use by the Leading Builders of Motors, Engines, Steam Pumps, Machine
Tools, Electrical, Hoisting and Conveying Machinery of all Kinds.

Sold either in Castings or Pig Metal under U. S. and Canadian Patents by the

LUMEN BEARING COMPANY,

WILLIAM H. BARR, General Manager.

BUFFALO, N. Y.

TORONTO, ONT.

Cambria Shafting & Machine Works ("Klein's"),
Marshall below Cambria, Phila., Pa.
DODGE MFG. CO., Mishawaka, Ind.
(See adv. index & branch offices, end of book)
Hyatt Roller Bearing Co., Harrison, N. J.
Jones & Laughlins Steel Co., Pittsburg, Pa.
Klein, Chas. C. (Step for Vertical Shafts, etc.),
2850 N Marshall, Philadelphia, Pa.
Medart Patent Pulley Co., 3500 DeKalb, St.
Louis, Mo.
Platt Iron Works Co., Dayton, O.
Webster Mfg. Co., 1075 W 15th, Chicago, & 3S
Dey, New York
Woonsocket Machine & Press Co., Woonsocket,
R. I.

Bearings (Side)

Baltimore Railway Specialty Co. ("Baltimore")
Improved, also Center, Baltimore, Md.
Camel Co. ("Hartman" Ball Bearing), Old
Colony bldg, Chicago, Ill.
Chicago Railway Equipment Co. (for Cars),
Great Northern bldg, Chicago, Ill.
Frictionless Metal Co., Richmond, Va.
Magnus Metal Co., General Offices, Fidelity
Trust bldg, Buffalo, N. Y.
More-Jones Brass & Metal Co., 3138 N B'way,
St. Louis, Mo.
Simplex Railway Appliance Co. (Susemihl Roller
Side), Hammond, Ind., & 42 B'way, New
York

Bearings (Spiral)

St. Louis Car Co. (Journal), 8000 N B'way, St.
Louis, Mo.
Spiral Bearing & Supply Co., 74 B'way, New
York

Bearings (Thrust)

Thropp, Jno. E. Sons Co., Trenton, N. J.

Beaters (Egg)

Darby, Edw. & Sons, 231 Arch, Phila., Pa.
Dover Stamping & Mfg. Co. ("New Dover")
for Family Use & "Leviathan Dover" for
Confectioners, Cambridge, Mass.
Dunlap, J. S., 39 W Randolph, Chicago, Ill.
Fries, Geo. Sons, 898 Filbert, Phila., Pa.
Hamblen & Russell Mfg. Co., 44 Cliff, N. Y.
Hill, J. E. Co. ("Hill"), 27 School, Boston,
Mass.
Holt-Lyon Co. (Inc.), Tarrytown, N. Y.
Kilbourne Mfg. Co., Troy, N. Y.
Loll, F. W. Mfg. Co., Meriden, Conn.
Landers, Prary & Clark ("Dover"), New Bri-
tain, Conn.
Meyers, Fred. J. Mfg. Co., Hamilton, O.
National Mfg. Co., Worcester, Mass.
One Minute Churn Co., 9 Old slip, New York
Parker Wire Goods Co., Worcester, Mass.
Paxton Hardware Mfg. Co., Paxton, Ill.
Raymond Mfg. Co. (Ltd.), Corry, Pa.
Standard Co., 29 Haverhill, Boston, Mass.
Star Specialty Co., Indianapolis, Ind.
Taplin Mfg. Co., New Britain, Conn.
Turner & Seymour Mfg. Co., Torrington, Conn.
Western Wire Goods Co. ("Buffalo," "Perfec-
tion"), Pearl c Terrace, Buffalo, N. Y.
Weston & Wells Mfg. Co., Fretz bldg, Phila.
Pa.
Wire Goods Co. ("Dover"), Worcester, Mass.
Woods-Sherwood Co., Lowell, Mass.

Beds (Metal, for Railroads)

Adams & Westlake Co., Ontario, cor Franklin,
Chicago, Ill.

Bedstead Mfrs. (Brass or Iron)

ALABAMA.

BIRMINGHAM—St. Louis Bed & Mfg. Co. (of
St. Louis, Mo.)

ARKANSAS.

FORT SMITH—Ward Furniture Mfg. Co.
(Brass & Iron)

CALIFORNIA.

LOS ANGELES—Van Vorst & Berman, (Brass
& Iron)
SAN FRANCISCO—Merle, A. Co., (Brass &
Iron), 515 Mission
Schrock, W. A., (Iron), 19 New Montgom-
ery

COLORADO.

PUEBLO—St. Louis Bed & Mfg. Co. (of St.
Louis, Mo.)

CONNECTICUT.

DERBY—Whitcomb Metallic Bedstead Co.
(Brass & Iron)
HARTFORD—Hartford Bedstead Co. (Steel &
Brass Trimmed), 618 Capitol

GEORGIA.

ATLANTA—Baker, P. D. (Iron)
Gholstein-Cunningham Spring Bed Co.,
(Iron)
MACON—Macon Spring Bed & Mattress Co.,
(Iron)

ILLINOIS.

BRADLEY—Turk, Jos. Mfg. Co. (Iron)
CHICAGO—Adams & Westlake Co., (Brass &
Iron), Ontario & N Franklin
American Metal Ware Co., (Brass), 87
Huron
Art Bedstead Co., (Brass & Iron), 37th &
Rockwell
Blonder Bros. Mfg. Co. (Iron), 135 W Su-
perior
Calumet Metal Furniture Co. (Iron), 254 92d
Central Bedding Co. (Iron), 462 Wabash av
Davis, Horwich & Steinman (Iron), 2422 La
Fett, John (Iron), 2633 S Halsted
Garvy Co. (Steel Folding), 80 Norton
Hall, Miller & Son, (Brass & Iron), Taylor
& Rockwell
Horn Bros. Mfg. Co., (Iron), 281 W Superior
Hyman, F., (Iron), 128 Clybourn
Kimball & Chappell Co., (Brass & Iron),
2834 Loomis
Peck & Hills Furniture Co., (Brass & Iron),
1319 Michigan av
Schomer, Henry, (Iron), 301 S Canal
Simmons Mfg. Co. (Brass & Iron), 192
Mich av
Union Wire Mattress Co. (Iron), 187 Mich
av

PEORIA—Peoria Lounge & Mattress Co.,
(Iron), 301 N Water
PLANO—Earl Mfg. Co., (Brass & Iron)
Sears Mfg. Co. (Iron)

INDIANA.

EVANSVILLE—Evansville Metal Bed Co.,
(Brass & Iron)
INDIANAPOLIS—Puritan Bed Spring Co.,
(Brass & Iron)
Laycock, T. B. Mfg. Co. (Brass & Iron)
MUNCIE—Hickson Mfg. Co. (Iron)
NEWCASTLE—Brass & Iron Bedstead Co.
RICHMOND—Richmond Indiana Mfg. Co.
(Brass & Iron)
SOUTH BEND—South Bend Iron Bed Co.

IOWA.

DUBUQUE—Dubuque Cabinet Makers' Ass'n,
(Brass & Iron)

KENTUCKY.

LOUISVILLE—Dow Wire Works Co.

LOUISIANA.

NEW ORLEANS—Crescent Bed Co. (Ltd.)
(Brass), 400 Orange
Hanna & Kalmbach (Iron), 404 Canal
Magee & Dow Co. (Brass & Iron), Tchou-
ploulas & Race

MAINE.

BANGOR—Bangor Mattress Co. (Iron)

MARYLAND.

BALTIMORE—Fauldrath, C. H. & Bro., (Brass
& Iron), 219 N Howard
Joyce Mfg. Co., 612 W Pratt N Holliday
Foster Bros. Mfg. Co., (Brass & Iron), 320
Weems, A. W. (Brass & Iron), 331 N
Howard

MASSACHUSETTS.

BOSTON—Bent, G. W. & Co. (Brass & Iron).
93 Causeway
Boston Metallic Bed Co., (Iron), 90 Canal
Fowkes, J. H., Co. 77 Washington N
Kenny, A. E. & Co. (Brass & Iron), 97
Beverly
Marble, W. P. & Co., 15 Chardon
Merrimac Mattress Mfg. Co. (Iron), 129
Portland
HOLYOKE—Coburn Trolley Track Mfg. Co.
(Brass)
WESTBORO—Foster-Richardson Co., (Brass &
Iron)

MICHIGAN.

DETROIT—Jenks & Muir Mfg. Co., (Brass &
Iron), 1441 Hastings
Standard Metal Furniture Co. (Brass &
Iron), Morrow & Marston av

MINNESOTA.

MINNEAPOLIS—Gangelhoff Bros., (Brass &
Iron), 909 S 2d
Minneapolis Bedding Co., (Brass & Iron),
5th av & Division
Salisbury & Satterlee (Iron), 215 S. E. Main
RED WING—Red Wing Mfg. Co., (Brass &
Iron)
ST. PAUL—Acme Iron Bed Mfg. Co., St An-
thony pk
Central Bedding Co. (of Chicago, Ill.) (Steel
Beds), 2306 Hampden av
United States Bedding Co. (Brass & Iron),
60 W 10th

MISSOURI.

KANSAS CITY—Brown Mfg. Co. (Brass &
Iron), 407 S W boul
ST LOUIS—American Bed Co., (Brass & Iron),
18th to 19th & Park av
Foster Bros. Mfg. Co., (Iron), 1410 N 16th
Mellon, Peter H. Mfg. Co., (Iron), 10th
& Mullanphy
Smith & Davis Mfg. Co., (Brass & Iron),
Locust & 20th
St. Louis Bed & Mfg Co., 408 N 4th

NEBRASKA.

LINCOLN—Western Mattress Co., (Iron)

NEW JERSEY.

HOBOKEN—Oriental Metal Bed Co., (Brass)
JERSEY CITY—Mersereau Metal Bed Co.,
(Brass & Iron), 202 Johnson av
New York Metallic Bedstead Co.
Runyon, J. D. Mfg. Co., (Brass & Iron),
190 1st
NEWARK—Newark Spring Mattress Co.

NEW YORK.

ALBANY—Hasselbarth, C. O., (Brass & Iron),
30 Hamilton
BUFFALO—Barcalo Mfg. Co., (Brass & Iron),
140 Kentucky
Hard Mfg. Co. (Iron), 117 Tonawanda
LOCKPORT—Oliver Bros. Co., (Brass & Iron)
MECHANICSVILLE—Eckerson Bedding Co.,
(Iron)
Borough of Brooklyn.
BROOKLYN—Frank & Trounstine, 226 Franklin
Greenpoint Metallic Bed Co. (Brass & Iron),
226 Franklin
Royal Metal Furniture Co. (Brass & Iron),
170 7th
Star Brass & Iron Bed Co., (Brass & Iron),
13 Montauk av

Boroughs of Manhattan & Bronx

NEW YORK—American Couch Co. (Brass &
Iron), 141 7th av
Bronx Metal Bed Co., (Brass & Iron), 50
Orchard
Hall, Frank A. (Iron), 118 Baxter
Hoffman, Henry, (Iron), 105 Mott
Hospital Supply Co. (Iron), 35 E 20th
Judd, H. L. Co., (Brass & Iron), 87
Chambers
Manhattan Bedding Co., (Brass & Iron),
533 W 23d
New York Couch Bed Co., 534 W 30th
N. Y. Woven Wire Mattress Co. (Iron), 225
W. 28th
Ostermoor & Co., (Brass & Iron), 132
Bowery
Rogers, C. P. & Co., (Brass & Iron), 145
5th av
Schlesinger, W. & S. & Co., (Iron), 527
W 24th
Sussman, Harri., (Iron), 2369 2d av
ROME—Rome Metallic Bedstead Co., (Brass &
Iron)
TRUXTON—Bryant Furniture Co., (Iron)
UTICA—Foster Bros. Mfg. Co., (Iron)
Lortz, Teuscher & Co. (Iron)
WAVERLY—Merriam, F. W., (Iron)

NORTH CAROLINA.

ALBEMARLE—Albemarle Furniture & Mfg.
Co., (Iron)
WINSTON SALEM—Forsyth Iron Bed Co.
(Brass & Iron)

OHIO.

ASHLAND—Kauffman Mfg. Co., (Iron)
CINCINNATI—American Juvenile Bed Co.
(Iron), Wiggins bldg
EATON—Ohio Iron & Brass Bed Co., (Brass & Iron)

PENNSYLVANIA.

ALLEGHENY—Gross & Hastings, (Brass & Iron)
Pittsburg Metal Bed Co., 1120 Brown
CORRY—Kurtz Brass Bed Co. (Ltd.)
HARRISBURG—Boll Bros. Mfg. Co., (Brass & Iron)
PHILADELPHIA—Bernstein Mfg. Co., (Brass & Iron), 3d & Westmorland
Bunting, J. R. Bedding Co. (Iron), 234 S 2d
Dougherty, H. D. & Co. (Brass & Iron), 11 N 11th
McMahon, Wm. H. (Brass & Iron), 244 S 2d
Philadelphia Metallic Bed Co., 1201 Washington av
Quaker City Metallic Bedstead Co., (Brass), 16th & Washington av
Rawson Mfg. Co. (Brass), 942 N 3d
WILLIAMSPORT—Andrews Sanitary Bed Co. (Iron & Folding Beds)

RHODE ISLAND.

PROVIDENCE—Brady, Jas. W. (Iron), 244 Weybosset

TENNESSEE.

CHATTANOOGA—Heron Iron Bedstead Co.

WISCONSIN.

FOND DU LAC—Winnebago Furniture Mfg. Co. (Iron)
MARSHFIELD—Marshfield Bedding Co. (Iron)
MILWAUKEE—Western Hardware & Mfg. Co. (Brass & Iron), Dover pl & West

Bee Keepers' Supplies

Dadant & Sons, Hamilton, Ill.
Falconer, Jas. T. & Co., Jamestown, N. Y.
Marshfield Mfg. Co., Marshfield, Wis.
Lewis, G. B. Co., Watertown, Wis.
Root, A. I. Co., Medina, O.

***Bell Cords & Couplings**

(See also Cords, Trolley, etc.)

SAMSON CORDAGE WORKS, 88 Broad, Boston, Mass. (See adv. index, end of book)

SILVER LAKE CO., 82 Chauncey, Boston, Mass. (See adv. index, end of book)

**Bell Founders
CALIFORNIA.**

SAN FRANCISCO—Garratt, W. T. & Co., 138 Fremont
Globe Brass & Bell Foundry, 128 Main
Kingwell, Vincent, 228 Fremont

CONNECTICUT.

BRISTOL—New Departure Mfg. Co. (Gong, etc.)
MERIDEN—BRADLEY & HUBBARD Mfg. Co. (See adv. index, end of book)

MARYLAND.

BALTIMORE—McShane Bell Foundry Co., Holiday & Centre
Regester, J. Sons Co., Holliday & Saratoga

MASSACHUSETTS.

BOSTON—Bay State Brass Foundry, 155 A

MICHIGAN.

NORTHVILLE—American Bell & Foundry Co. (Cast Steel)

MISSOURI.

ST. LOUIS—Stuckstede, Hy. Bell Foundry Co., 1312 S 2d

NEW JERSEY.

JERSEY CITY—Williams, E. A. & Son

NEW YORK.

MOUNT VERNON—HENRY-BONNARD Bronze Co. (See adv. index, end of book)
NEW YORK—American Bell & Chime Co., 31 Burling sl
HENRY-BONNARD BRONZE CO., 5 E 42d. (See adv. index, end of book)
Meneely Bell Co., 177 B'way
Sweeney & Barrett, 3 Dutch
TROY—Meneely Bell Co., 22 River
WATERVLIET—Meneely & Co.

OHIO.

CINCINNATI—Cincinnati Bell Foundry Co., Spring Grove av & Terrace pl
Van Duzen, E. W. Co., 428 E 2d
HILLSBORO—Bell, C. S. Co. (Steel Alloy, Farm, etc.)

PENNSYLVANIA.

PHILADELPHIA—Mousley, Chas. & Sons, 453 N 12th
PITTSBURG—Chaplin-Fulton Mfg. Co., 28 Penn av

RHODE ISLAND.

PROVIDENCE—Fuller, Frederic, 604 S Main

TENNESSEE.

CHATTANOOGA—Ross-Meehan Foundry Co.

Bell Ringers

(See Locomotive Bell Ringers.)

Bellows (Blacksmiths', Molders', Etc.)

Beggs, Jas. & Co., 109 Liberty, N. Y.
Brand, S. H. & Co., 99 W Monroe, Chicago
California Bellows Mfg. Co., 79 Federal, San Francisco, Cal.
Christen, F. & Sons, Dock & Main, St. Louis, Mo.
Cincinnati Plow & Bellows Works, 2025 Reading rd, Cincinnati, O.
Coles, H. H. Co. ("Dunn" Molders), Mammoth, N. Y.
Collins, Wm., New Albany, Ind.
Dobson, Wm. (Molders' Calfskin), Canastota, N. Y.
Keese, Chas. H., 4 Gold, New York
Michales, J. Son & Co., 40 Commerce, N. Y.
OSBORN MFG. CO. (Molders, only), 5401 Hamilton av, N. E., Cleveland, O. (See adv. index, end of book)
Parr, Edw., 1359 W Congress, Chicago, Ill.
Scott, Geo. M., 436 Johnson, Chicago
Woodason, Thomas (Blacksmiths' & Molders', etc.), 2900 D, Phila., Pa.

***Bellows (Brass & Wood)**

JACKSON, WM. H. COMPANY, 29 E 17th (Union square), New York. (See adv. index, end of book)

Bells (Automobile & Bicycle)

(See also Bells, Electric; also Bells & Gongs, Car, etc.)

Bevin Bros. Mfg. Co., East Hampton, Conn.
Gong Bell Mfg. Co., East Hampton, Conn.
MOSSBERG, FRANK CO. (also Carriage), Attleboro, Mass. (See adv. index, end of book)
National Novelty Corporation, 826 B'way, New York
Starr Bros. Bell Co., East Hampton, Conn.
Western Electric Co., 259 S Clinton, Chicago, Ill., & 57 Bethune, New York

Bells (Chime)

Durfee, Walter H. & Co. (Tubular Tower), 151 Pond, Providence, R. I.
Liberty Bell Co. (Liberty Auto Chimes), Bristol, Conn.
McShane Bell Foundry Co., Holliday & Centre, Baltimore, Md.
Meneely Bell Co., Troy, N. Y., & 177 B'way, New York
Meneely & Co., Watervliet & Troy, N. Y.
Ross-Meehan Foundry Co., Chattanooga, Tenn.
Van Duzen, E. W. Co., 428 E 2d, Cincinnati, O.

Bells (Church)

American Bell & Foundry Co., Northville, Mich.
Bell, C. S. Co., Hillsboro, O.
Bevin Bros. Mfg. Co., East Hampton, Conn.
Blymyer Iron Works Co., Spring Grove av, & Terrace pl, Cincinnati, O.
Chaplin-Fulton Mfg. Co., 28 Penn av, Pittsburg, Pa.
Cincinnati Bell Foundry Co., Spring Grove av & Terrace pl, Cincinnati, O.
Durfee, Walter H. & Co. (For Churches, Tower Clocks, Organ Chimes, etc.) Providence, R. I.
Fuller, Frederic, Providence, R. I.
Garratt, W. T. & Co. (Inc.), 142 Fremont, San Francisco, Cal.
McShane Bell Foundry Co., Holiday & Centre, Baltimore, Md.
Meneely Bell Co., 22 River, Troy, N. Y., & 177 B'way, New York
Meneely & Co., Watervliet, & Troy, N. Y.
Ross-Meehan Foundry Co., Chattanooga, Tenn.
RUMSEY & CO. (Ltd.) (Steel), Seneca Falls, New York. (See adv. index & branch offices, end of book)
Stuckstede, Henry Bell Foundry Co., 1312 2d, St. Louis, Mo.
Van Duzen, E. W. Co., 428 E 2d, Cincinnati, O.
Williams, E. A. & Son, 105 Plymouth, Jersey City, N. J.

Bells (Cow)

Blum Mfg. Co., Collinsville, Ill.
Bevin Bros. Mfg. Co., East Hampton, Conn.
East Hampton Bell Co., East Hampton, Conn.
Hill, N. N. Brass Co., East Hampton, Conn.

Bells (Door)

Arcade Mfg. Co., Freeport, Ill.
Bevin Bros. Mfg. Co., East Hampton, Conn.
Hill, N. N. Brass Co., East Hampton, Conn.
National Novelty Corporation, 826 B'way, New York
Penn Hardware Co., Reading, Pa.
Reading Hardware Co., Reading, Pa.
Starr Bros. Bell Co. (Rotary & Trip), East Hampton, Conn.

Bells (Electric)

Ansonia Electrical Co., Ansonia, Conn.
Boston Electric Co., 29 Harrison av, Boston, Mass.
Bunnell, J. H. & Co., 20 Park pl, New York
Cory, Chas. & Son (Call), 278 Division, N. Y.
Electric Goods Mfg. Co., 115 Purchase, Boston, Mass.
Electrical Appliance Co. ("Queen"), 528 Walnut, Cincinnati, O.
Heath Electric Co., 336 Grand River av, Detroit, Mich.
Holtzer-Cabot Electric Co., Brookline, Mass.
Kell, Francis & Son, 667 E 163rd, New York.
Liberty Bell Co., Bristol, Conn.
Manhattan Electrical Supply Co., 17 Park pl, New York
National Novelty Corp., 826 B'way, New York
Ostrander, W. R. & Co., 22 Dey, New York
Partrick, Carter & Wilkins, 22d & Wood, Phila., Pa.
Pearce, Fred'k Co., 18 Rose, New York
Proctor-Raymond Mfg. Co., Detroit, Mich.
Reading Hardware Co. (Ring & Rotary Door), Reading, Pa.
Spies & Klein (The Bug Proof), 87 W Van Buren, Chicago, Ill.
Stanley & Patterson (Faraday Iron Box), 23 Murray, New York
Starr Bros. Bell Co., East Hampton, Conn.
Viaduct Mfg. Co., 10 S Howard, Baltimore, Md.
Wernersville Electric Bell Co., Wernersville, Pa.
Western Electric Co., 259 S Clinton, Chicago, & 57 Bethune, New York

Bells (Engine)

Bevin Bros. Mfg. Co., East Hampton, Conn.
Bird Brass Works, Ft. Worth, Tex.
Cory, Chas. & Son, 278 Division, N. Y.
National Novelty Corp., 826 B'way, New York
Regester's, J. Sons Co., Holliday & Saratoga, Baltimore, Md.
Rumsey & Co., Ltd. (Inc.), Seneca Falls, N. Y.
Starr Bros. Bell Co., East Hampton, Conn.
Van Duzen, E. W. Co., 428 E 2d, Cincinnati, O.
Williams, E. A. & Son, 105 Plymouth, Jersey City, N. J.

Bells (Extension Ringing)

(See Bells, Telephone)

Bells (Farm)

Bell, C. S. Co., Hillsboro, O.
 Comstock, Geo. S., Mechanicsburg, Pa.
 Hill, N. N. Brass Co., East Hampton, Conn.
 Lehr Agricultural Co., Fremont, O.
 Messinger Mfg. Co., Tatamy, Pa.
RUMSEY & CO. (Ltd.), Seneca Falls,
 N. Y. (See adv. index & branch offices, end
 of book)

Bells (Fire Alarm, Electric)

Western Electric Co., 259 S Clinton, Chicago,
 Ill., & 57 Bethune, New York

Bells (Fog)

Bevin Bros. Mfg. Co., E Hampton, Conn.
 Starr Bros. Bell Co., E Hampton, Conn.
 Williams, E. A. & Son, Jersey City, N. J.

Bells (Highway Crossing)

(See Signals, Railway Crossing)

Bells (House)

Hill, N. N. Brass Co., East Hampton, Conn.
 National Novelty Corp., 826 B'way, New York
 Reading Hardware Co., Reading, Pa.
 Russell & Erwin Mfg. Co., New Britain, Conn.
 Starr Bros. Bell Co., E Hampton, Conn.

Bells (Magneto)

(See Bells, Telephone.)

Bells (School, Fire & Factory)

(See Bells, Church.)

Bells (Sleigh)

Bevin Bros. Mfg. Co., E Hampton, Conn.
 Hill, N. N. Brass Co., E Hampden, Conn.
 Starr Bros. Bell Co., E Hampton, Conn.
 Swedish Sleigh Bell Mfg. Co., Burlington, Ia.

Bells (Telephone)

Acme Electric & Telephone Co., 71 W Jackson
 boul, Chicago, Ill.
 American Electric Telephone Co., 64th & State,
 Chicago, Ill.
 Augusta Electric Co. (W. S. Tobie, Propt.),
 (Extension), Augusta, Ill.
 Bevin Bros. Mfg. Co., East Hampton, Conn.
 Bridgeport Brass Co. (Magneto), Bridgeport,
 Conn., & 19 Murray, N. Y.
 Chicago Telephone Supply Co., Elkhart, Ind.
 Connecticut Telephone & Electric Co., Meriden,
 Conn.
 Couch & Seeley Co. ("Magneto"), 10 Thacher,
 Boston, Mass.
 Farr Telephone & Construction Supply Co., 118
 W Jackson boul, Chicago
 Garton-Daniels Co. (For Extension Ringing),
 Keokuk, Iowa
 International Telephone Mfg. Co., cor Harrison
 & Clinton, Chicago
 Holtzer-Cabot Electric Co., Brookline, Mass.
 Ladd, W. C., Bristol, Conn.
 Manhattan Electrical Supply Co., 17 Park pl,
 New York
 Menominee Electric Mfg. Co., Menominee, Mich.
 National Novelty Corp., 826 B'way, New York
 North Electric Co., 157 St. Clair, Cleveland, O.
 Partrick, Carter & Wilkins, 1231 Callowhill,
 Phila., Pa.
 Plume & Atwood Mfg. Co., Waterbury, Conn.
 Schwarze Electric Co. ("Schwarze," Loud Ring-
 ing Magnets Extension), Adrian, Mich.
 Sumter Telephone Mfg. Co., Sumpter, S. C.
 Utica Fire Alarm Telegraph Co., Utica, N. Y.
 Viaduct Mfg. Co., 10 S Howard, Baltimore, Md.
 Western Telephone Mfg. Co., 42 W Jackson
 boul, Chicago, Ill.
 Western Telephone Mfg. Co., 42 W Jackson
 boul, Chicago, Ill.
 Williams-Abbott Electric Co., 12 Columbus,
 Cleveland, O.
 Williams, E. G. Electric Works, 145 Quincy,
 Cleveland, O.
 Williams Telephone & Supply Co., Cleveland,
 Ohio
 Wotton Electric & Mfg. Co. (Extension Ring-
 ing), Atlanta, Ga.

Bells (Tubular)

Durfee, Walter H. & Co. (Tubular, Church
 Organ), Providence, R. I.

Bells & Gongs (Car, Etc.)

Adams & Westlake Co., Ontario c N Franklin,
 Chicago, Ill.
 American Tube & Stamping Co., Bridgeport,
 Conn.
 Bevin Bros. Mfg. Co., East Hampton, Conn.
 Brill, J. G. Co., 62d & Woodland av, Phila., Pa.
 Cheswick Mfg. Co. (Trip Gong, etc.), Canton, O.
 Dayton Mfg. Co., Dayton, O.
 Electric Service Supply Co., 1024 Filbert,
 Phila., Pa.
 Gong Bell Co., East Hampton, Conn.
 National Novelty Corp., 826 B'way, New York
 Ohio Brass Co., Mansfield, O.
 Peck, Stow & Wilcox Co., Southington, Conn.,
 & 27 Murray, N. Y.
 Pleuger & Henger Mfg. Co., 11th & Hebert, St.
 Louis, Mo.
PRESSED STEEL TANK CO.
 (Pressed Steel), Milwaukee, Wis. (See adv.
 index, end of book)
 Ross-Meehan Foundry Co., Chattanooga, Tenn.
 Russell & Erwin Mfg. Co., New Britain, Conn.,
 & 43 Chambers, N. Y.
 Starr Bros. Bell Co. (Barton's), East Hamp-
 ton, Conn.
 Van Duzen, E. W. Co. (Trip), 428 E 2d, Cin-
 cinnati, O.
 Wall, P. Mfg. Supply Co., 718 Preble, Alle-
 gheny, Pa.
 Wallace Supply Co., 56 5th av, Chicago, Ill.
 Williams, E. A. & Son, 105 Plymouth, Jersey
 City, N. J.

Bells & Gongs (Unmounted)

American Tube & Stamping Co., Bridgeport,
 Conn.
 Bevin Bros. Mfg. Co., East Hampton, Conn.
 Bridgeport Brass Co., Bridgeport, Conn., & 19
 Murray, N. Y.
 East Hampton Bell Co., East Hampton, Conn.
 National Novelty Corp., 826 B'way, New York
 New Departure Mfg. Co., Bristol, Conn.
 Pleuger & Henger Mfg. Co., 11th & Herbery,
 St. Louis, Mo.
 Plume & Atwood Mfg. Co., Waterbury, Conn.
 Russell & Erwin Mfg. Co., New Britain, Conn.,
 & 43 Chambers, N. Y.
 Waterbury Mfg. Co., Waterbury, Conn.

Belt Awls

(See Awls, Belt, Etc.)

Belt Cement

Akron Belting Co., Akron, O.
 Bradford Belting Co., 38 Dey, N. Y., & 2d &
 Walnut, Cincinnati, O.
 Chicago Belting Co., 67 S Canal, Chicago, Ill.
 Graton & Knight Mfg. Co., Worcester, Mass.
HUDSON BELTING CO. ("American"),
 3 Eaton pl, Worcester, Mass. (See adv. in-
 dex, end of book)
 Jewell Belting Co., Hartford, Conn.
 Ladew, E. R. (Est. of) ("Hoyt's"), 200 Wil-
 liam, New York
 New York Leather Belting Co. ("Victor"), 51
 Beekman, New York
 Page Belting Co., Concord, N. H., & 31 Pearl,
 Boston, Mass.
 Russia Cement Co., Gloucester, Mass.
 Schieren, Chas. A. & Co., 30 Ferry, New York
 Shultz Belting Co., 402 Barton, St. Louis, Mo.

Belt Dressing

Akron Belting Co. ("Electric"), Akron, O.
 Allen, W. D. Mfg. Co. ("Ajax," "Red Cross"),
 151 Lake, Chicago, Ill.
AMERICAN BELTING CO., Youngs-
 town, O. (See adv. index & branch offices,
 end of book)
 American Oil Co. ("A. O. C."), Providence,
 R. I.
 American Steam Packing Co. ("American"), 60
 Federal, Boston, Mass.
 Barker Bros. ("Keystone"), Norristown, Pa.
 Barnum Bros. Co. ("Trojan," "Polar"), Troy,
 N. Y.
 Belden, A. G. & Co. ("Pynolum"), 145 Maiden
 lane, N. Y.
 Bell-Smith Factory Supplies Co. ("Acme"),
 130 E 9th, Cincinnati, O.
 Belt Force Co., Knoxville, Tenn.

Beltline Mfg. Co., 25 S Desplaines, Chicago, Ill.
 Binghamton Boiler Compound Co. ("Pyramid"),
 Binghamton, N. Y.
 Black Diamond Mfg. Co. ("Black Diamond"),
 1235 W Court, Cincinnati, O.
 Bradford Belting Co. ("Monarch"), 38 Dey, New
 York, & 2d & Walnut, Cincinnati, O.
 Buffalo Specialty Mfg. Co. ("Electric Suc-
 cess"), 375 Ellicott, Buffalo, N. Y.
 Callahan, Geo. & Co. ("Anti-Slip"), 218 Front,
 New York
 Carbono Specialty Mfg. Co., 1913 Lexington av,
 New York
CARPENTER, GEO. B. & CO., 202 S.
 Water, Chicago, Ill. (See adv. index, end
 of book)
 Carton Belting Co., Boston, Mass.
 Chesapeake Belting Co. ("Star"), Baltimore,
 Md.
 Chesterton, A. W. & Co. ("Excelsior"), 64
 India, Boston, Mass.
 Chicago Belting Co., 67 S Canal, Chicago, Ill.
 Cincras Specialty Mfg. Co. (Brush Bar), Buf-
 falo, N. Y.
 Climax Refining Co., Williamson bldg, Clevel-
 and, O.
 Cling Surface Co., 1032 Niagara av, Buffalo,
 Columbia Mfg. Co., Camden, N. J.
 Consumers Rubber Co. ("Hosmer's"), 1407 W
 6th, N W, Cleveland, O.
 Corliss Chemical Co., S 12th, St. Louis, Mo.
 Cowles & Co., 231 Fulton, New York
 Crandall Packing Co., Palmyra, N. Y.
 Crescent Belt Fastener Co. ("Handy Bar"), 143
 E 23d, New York
 Delaney Oil & Lubricant Co., 45 3d, Milwaukee,
 Diana Oil Works, Cleveland, O.
DIXON, JOS. CRUCIBLE CO. ("Dix-
 on's") Solid & for Traction, Jersey City,
 N. J. (See adv. index & branch offices, end
 of book)
 Eagle Oil & Supply Co. ("Eagleline Holdfast"),
 104 Broad, Boston, Mass.
 Estweller, Wm. (Electric), 230 N 3d, Phila., Pa.
 Franklin Co., Lincoln, N. J.
 Galloway, G. W., 322 Pearl, N. Y.
 Gandy Belting Co. ("Gandy"), Baltimore, Md.
 Garlock Packing Co. ("Garlock"), Palmyra,
 New York
 Garnet Belt Dressing Co. (Liquid & Bar), Al-
 lentown, Pa.
 Gold, Walter C. (The Page), 235 Race, Phila.,
 Pa.
 Goodyear Rubber Hose & Packing Co. ("Vul-
 can"), 221 Chestnut, Phila., Pa.
 Graton & Knight Mfg. Co., Worcester, Mass.
 Hinds & Coon ("Hug-It"), 126 Pearl, Boston,
 Mass.
 Houghton, E. F. & Co. (The "Vim," Adhesive),
 240 W Somerset, Phila., Pa.
HUDSON BELTING CO. (Hudson Bar
 "Number One"), Worcester, Mass. (See
 adv. index, end of book)
 Imperial Leather Preserver Mfg. Co. ("Leather-
 ine"), 212 S 3d, Phila., Pa.
 Ironsides Co., The Wyandotte, Columbus, O.
 Jewell Belting Co., Hartford, Conn.
 Keystone Lubricating Co. ("Keystone," Grease),
 20th & Allegheny av, Phila., Pa.
 Kldder Supply Co., 29 Pearl, Boston
 Leather Preserver Mfg. Co., 27 W Monroe, Chi-
 cago, Ill.
 Little, O. C., Pulley Coating Co. (Softener and
 Preserver for Rubber & Canvas Belts), Men-
 Loeb Bros, 29 Ferry, N. Y.
 Main Belting Co. ("Leviathan"), 1219 Carpen-
 ter, Phila., Pa.
 Montgomery Bros. ("Paragon"), 48 N Front,
 Phila., Pa.
 Munson, Chas. Belting Co. ("Famous"), 83
 Franklin, Chicago, Ill.
 New York Leather Belting Co., 51 Beekman,
 New York
 New York Mfg. & Supply Co., 152 South, New
 York
 Page Belting Co. ("Crown," for Leather
 Belts), Concord, N. H., & 31 Pearl, Boston,
 Mass.
 Palmer, N. & Co. ("Charter Oak"), Bridge-
 port, Conn.
 Pechin, Jno. W. ("Jim Dandy"), 124 N 2d,
 Philadelphia, Pa.
 Phoenix Oil Co. ("Green Seal"), Cleveland, O.
 Plomo Specialty Mfg. Co. ("Whitmore"), Clevel-
 and, O.
 Post, E. L. & Co., 50 Cliff, N. Y.
 Providence Oil Works, Providence, R. I.
 Rbonds J. E. & Son, 239 Market, Phila., Pa.
ROSSENDALE-REDDAWAY BELT-
 ing & Hose Co. ("Camel"), Newark, N. J.
 (See adv. index, end of book)
 Sawyer Belting Co. ("Flexo" Tractive Liquid),
 Cleveland, O.
 Schieren, Chas. A. & Co. ("Leatherine," "Elec-
 tric"), 30 Ferry, New York
 Shackley, W. T. & Son (Friction), 49 High,
 Boston, Mass.

Shultz Belting Co., 402 Barton, St. Louis, Mo.
Southwick, Geo. W. Co. (Inc.) ("Polar"), 149
Centre, New York

Star Mfg Co., Stamford, Conn.
Stephenson Mfg. Co. (Bar), Albany, N. Y.
Tallamantic Co., North Tonawanda, N. Y.
Tolsma, R. B. & Co., Seattle, Wash.
Viscol Co., 1st, B Cambridge, Boston, Mass.
Warren Co., 1960 Orleans, Chicago, Ill.
Watt's, Jno. M. Sons ("Nonpareil"), 232 N 3d,
Phila., Pa.

Waterproof Paint Co., Watertown, Mass.
White & Bagley Co. ("Neverslip"), Worcester,
Wilhelm, A. Co., Reading, Pa.
Wing, J. T. & Co., 19 Woodward av, Detroit,
Mich.

Winn, Wm. R. ("Winn"), 143 Malden Lane,
New York
Wolff, Norbert & Son ("Wolff"), 470 Green-
wich, New York

World Refining Co., Easton, Pa.
Zircon Mfg. Co., North Tonawanda, N. Y.
Zurn, O. F. Co. ("Royal," "Peerless"), 23 S
5th, Phila., Pa.

Belt Fasteners

Angell Belt Hook Co. ("The Wilson" Hooks),
Providence, R. I.

Billings & Spencer Co. ("The Davis"), Hart-
ford, Conn.

**BRISTOL CO. ("Bristol's" Steel Belt
Lacing)**, Waterbury, Conn. (See adv. index
& branch offices, end of book)

Buffalo Belting Works, 139 Wash, Buffalo,
N. Y.

Buffalo Specialty Mfg. Co. ("Buffalo"), 375
Ellicott, Buffalo, N. Y.

Chase Co. ("Chase"), Lancaster, Pa.

Crown Woven Wire Brush Co. (for Round &
Sewing Machine Belts), Salem, Mass.

Columbia Novelty Mfg. Co., 1431 N 8th
St. Louis, O.

Crescent Belt Fastener Co. ("Crescent"), 143
E 23d, New York

Edwards, H. D. & Co. ("Smith's"), Detroit,
Mich.

Greene, Tweed & Co. ("The Jones," "Jack-
son's" Improved), 109 Duane, New York

Hayden, J. M. & Co. (Wire), Grand Rapids,
Mich.

Hudson Belt Fastener Co., 52 Dey, New York

Jenckes, E. Mfg. Co. ("Hicks"), Pawtucket,
R. I.

Jewell Belting Co. (Potter), Hartford, Conn.

Kenehan Steel Belt Fastener Co., 307 Arcade,
Cleveland, O.

Kerr & Co. (Metallic), 171 B'way, N. Y.

New York Belting & Packing Co. (Ltd.), 91
Chambers, New York

Page Belting Co., Concord, N. H.

Pickering, R. S. (or Belt Hooks), Sharon Hill,
Pa.

Pratt, Wm. E. Mfg. Co. ("The Chicago Wire"),
91 Lake, Chicago

**ROSSENDALE - REDDAWAY BELT-
ing-Hose Co.** ("Jackson's"), Newark, N.
J. (See adv. index, end of book)

Smith, F. P. & Co. ("Smith's" Sewing Ma-
chine Belt Hooks, etc.), Sharon Hill, Pa.

Southwick, Geo. W. Co. (Inc.), 149 Centre,
Star Mfg. Co., Greenwich, Conn.

STRONG, CARLISLE & HAMMOND
Co. ("The Buffalo"), 333-344 Frankfort av,
N W, Cleveland, O. (See adv. index, end of
book)

Talcott, W. O. ("Wilson's" & Combination
Clinching & "Acme"), Providence, R. I.

Thacher Belting Hook Co., 245 Crawford rd,
Cleveland, O.

Upson Nut Co., Unionville, Conn., & Cleveland,
O.

Voorhees Rubber Mfg. Co. (Plate Belt Fasteners
or Hooks), Jersey City, N. J.

Wall, P. Mfg. Supply Co. ("Thachers"), Al-
legheny, Pa.

Belt Filling

Garnet Belt Dressing Co. (and Preserver), Al-
lentown, Pa.

Hendee Wire Brush Co., 319 Milwaukee, Mil-
waukee, Wis.

Peerless Lubricant Mfg. Co., 107 Liberty, N. Y.

Belt Holders

Mason Regulator Co., Boston, Mass.

Phelps Bros. & Co. ("The Wellington"), Wel-
lington, O.

Belt Hooks

(See Belt Fasteners.)

Belt Lacing

Akron Belting Co. (Wire & Rawhide), Akron, O.
Allen, W. D. Mfg. Co. (McCauley Wire), 151
Lake, Chicago

AMERICAN BELTING CO., Youngs-
town, O. (See adv. index & branch offices,
end of book)

Anstedt, C. Leather Co., 552 Commerce, Mil-
waukee, Wis.

Barnes, Henry K. ("Crown" Rawhide & "Blue-
skin" Mineral Tanned), 104 Franklin, Bos-
ton, Mass.

Bay State Belting Co. (Leather), 119 Franklin,
Boston

BRISTOL CO. ("Bristol's" Steel),
Waterbury, Conn. (See adv. index & branch
offices, end of book)

Brown Bros. Co., 62 Ex. pl., Providence, R. I.

Chicago Raw Hide Mfg. Co. (Rawhide), 75 E
Ohio, Chicago, Ill.

Columbia Novelty Mfg. Co. ("Star" Steel),
St. Louis, Mo.

Coupe, Wm. & Co. ("Excelsior" Raw Hide &
Oak Tanned), South Attleboro, Mass.

Gay, Fred E. (Rawhide Side & Cut Lace
Leather), Pawtucket, R. I.

Graton & Knight Mfg. Co., Worcester, Mass.

Hartmann Hide & Leather Co., 1905 Shen-
andoah av, St. Louis, Mo.

Hayden, J. M. & Co. (Wire), Grand Rapids,
Helvetia Lacing Co., Lancaster, Pa.

Hercules Mfg. Co., 69 Dearborn, Chicago

HUDSON BELTING CO. (Lace
Leather), Worcester, Mass. (See adv. in-
dex, end of book)

Hudson Belt Fastener Co. (Wire), 52 Dey, New
York

Jewell Belting Co. (Metallic Tipped), Hartford,
Conn.

Kayser Raw Hide Co. (Leather), 3918 N B'way,
St. Louis, Mo.

Kelton-Bruce Mfg. Co. (Rawhide), Salem, Mass.

Kerr & Co. (Metallic), 171 B'way, N. Y.

Ladew, Edward R. (Est. of) (Leather), 200
William, New York

Loeb Bros., 29 Ferry, N. Y.

McConnell, J. C. Lace Leather Co. ("Orson"
Mineral Tanned Lace Leather), Cornelia, Ga.

Malin Co. (Composition Wire), 641 Long av,
Cleveland, O.

Missouri Belting Co. ("Giant" Rawhide), St.
Louis, Mo.

National Rawhide & Belting Co. ("Wolverine"
Rawhide), Niles, Mich.

New York Belting & Packing Co. (Ltd.), 91
Chambers, New York

New York Leather Belting Co. (Leather), 51
Beekman, New York

North Chelmsford Machine & Supply Co., North
Chelmsford, Mass.

Norwich Belt Mfg. Co. ("Defiance" Rawhide,
etc.), Norwich, Conn.

Page Belting Co. ("Hercules"), Concord, N. H.

Schieren, Chas. A. & Co., 30 Ferry, New York

Shultz Belting Co. (Rawhide Lace Leather), 402
Barton, St. Louis, Mo.

Southwick, Geo. W. Co. (Inc.) (Wire), 149
Centre, N. Y.

Summer, Wm. Belting Co. (Leather), Tolland,
Conn.

Upson Nut Co. (Metallic), Unionville, Conn., &
Cleveland, O.

Weatherhead, Thompson & Co. (Rawhide), Paw-
tucket, R. I.

Western Rawhide & Belting Co. (Rawhide),
Milwaukee, Wis.

Williams, I. B. & Sons (Rawhide & Tanned),
Dover, N. H., & 17 W Lake, Chicago, Ill.

Belt Lacing Machines

(See Machinery)

Belt Shifters

BROWN, A. & F. CO., 25 Dey, New
York. Works: Elizabethport, N. J. (See adv.
index, end of book)

Builders' Iron Foundry, Providence, R. I.

Chander & Farquhar Co. ("Pratt"), 36 Federal,
Boston, Mass.

Cresson, Geo. V. Co., Allegheny av, W of 17th,
Phila., Pa.

Falls Rivet & Machine Co., Cuyahoga Falls, O.

Foster Engineering Co., Newark, N. J.

Mason Regulator Co., 158 Summer, Boston,
Mass.

Moore, Jno. H. ("Moore"), Hoopestown, Ill.

Mossberg Wrench Co. ("Multi-Pull"), Central
Falls, R. I.

Belt Stretching Machines

(See Machinery)

Belt Studs

Buffalo Specialty Co. ("Twist Brand," Cold
Rolled Steel), Buffalo, N. Y.

Belt Tighteners

Adams Company, Dubuque, Ia.

ALLIS-CHALMERS CO., Milwaukee,
Wis. (See adv. index & branch offices, end
of book)

American Tool & Machine Co., 109 Beach, Bos-
ton, Mass.

Barnard & Leas Mfg. Co. (For all Purposes),
Moline, Ill.

Billings & Spencer Co., Hartford, Conn.

BROWN, A. & F. CO., 25 Dey, New
York. Works: Elizabethport, N. J. (See adv.
index, end of book)

Burlingame A., Co., Worcester, Mass.

Cresson, Geo. V. Co., Allegheny av, W of 17th,
Phila., Pa.

Davis, F. M. Iron Works Co., 8th & Larimer,
Denver, Colo.

Diamond Iron Works, Minneapolis, Minn.

DODGE MFG. CO., Mishawaka, Ind.
(See adv. index & branch offices, end of book)

Falls Rivet & Machine Co., Cuyahoga Falls,
O., & 208 Fulton, New York

Filer & Stowell Co., Milwaukee, Wis.

Goodell-Pratt Co. ("Farley's"), Greenfield,
Mass.

Great Western Mfg. Co., Leavenworth, Kan.

Hill Clutch Co., ft 58th, N W, Cleveland, O.

Hoggson & Pettis Mfg. Co., New Haven, Conn.

Hunt, Rodney Machine Co., Orange, Mass.

Jones & Langhins Steel Co., Pittsburg, Pa.

LANE MFG. CO. (Swing & Slide),
Montpelier, Vt. (See adv. index, end of
book)

Lane & Bodley Co., John & Water, Cincinnati, O.

Link Belt Co., W 39th & Stewart av, Chicago,
Ill., & 299 B'way, New York

Marseilles Mfg. Co., Marseilles, Ill.

Medart Patent Pulley Co. (Various Kinds),
3500 DeKalb, St. Louis, Mo.

Midland Foundry & Machine Works Co., Denver,
Colo.

MINNEAPOLIS STEEL & MACHIN-
ery Co., Minneapolis, Minn. (See adv. in-
dex & branch offices, end of book)

Nordyke & Marmon Co., 1101 Morris, Indian-
apolis, Ind.

Plamondon, A. Mfg. Co., 57 S Clinton, Chi-
cago, Ill.

Poole Engineering & Machine Co., Woodberry
Station, Baltimore, Md.

Richmond City Mill Works, Richmond, Ind.

Sellers, Wm. & Co. (Inc.), 1600 Hamilton,
Phila., Pa.

Union Iron Works, San Francisco, Cal.

U. S. Machine Co., Williamsport, Pa.

Woods, T. B. Sons, Chambersburg, Pa.

Belt Webbing

Buffalo Weaving & Belting Co., Buffalo, N. Y.

Hope Mfg. Co., Providence, R. I.

Belting Mfrs.

NOTE—The various kinds of Belting manu-
factured by the firms listed under this head-
ing are indicated in the parentheses follow-
ing their names.

(For Dealers in Belting see Mill & Factory
Supplies.)

ALABAMA.

MOBILE—BOSTON BELTING CO.
(Turner Supply Co., Rep.), 23 South Com-
merce. (See adv. index, end of book)

CALIFORNIA.

LOS ANGELES—BOSTON BELTING CO.
(Warren & Bailey Mfg. Co., Rep.) (See
adv. index, end of book)

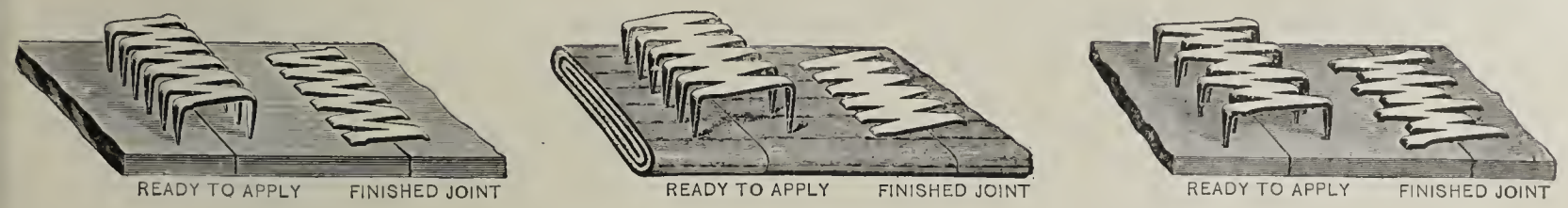
SAN FRANCISCO—BOSTON BELTING CO.
(Pacific Coast Rubber Co., Rep.), 138-140
First. (See adv. index, end of book)

Bowers Rubber Co. (Rubber), 42 Sacra-
mento

California Belting & Supply Co. (Leather),
119 Mission

Cook, H. N. Belting Co. (Leather), 124
Fremont

BRISTOL'S PATENT STEEL BELT LACING



LEATHER

RUBBER and WOVEN

ALL KINDS

| Thickness of Belt | No. | KIND OF BELT | No. | KIND OF BELT | No. | KIND OF BELT |
|--|-----|---|-----|--|-----|---|
| $\frac{1}{16}$ to $\frac{1}{8}$ in. | 00 | For Split Leather and Extra Light Belts | 100 | For Lightest Rubber and Cotton Belts | | FOR GENERAL USE ON LEATHER RUBBER COTTON WOVEN AND ALL OTHER BELTS |
| $\frac{1}{8}$ to $\frac{3}{16}$ in. | 0 | Split Leather and Light Belts | 10 | For Two-Ply Rubber and Cotton Belts | | |
| $\frac{3}{16}$ to $\frac{1}{4}$ in. | 1 | Ordinary Single Leather Belts | 11 | For Three-Ply Rubber and Cotton Belts | 111 | |
| $\frac{1}{4}$ to $\frac{5}{16}$ in. | 2 | For Extra Heavy and Wide Single Leather Belts | 12 | For Four-Ply Rubber and Cotton Belts | 112 | |
| $\frac{5}{16}$ to $\frac{3}{8}$ in. | 3 | For Double Leather Belts | 13 | For Five-Ply Rubber and Cotton Belts | 113 | |
| $\frac{3}{8}$ to $\frac{7}{16}$ in. | 4 | For Heavy Double Leather Belts | 14 | For Six-Ply Rubber and Cotton Belts | 114 | |
| $\frac{7}{16}$ to $\frac{9}{16}$ in. | 5 | For Extra Heavy Double Leather Belts | 15 | For Seven-Ply Rubber and Cotton Belts | 115 | |
| $\frac{1}{2}$ to $\frac{5}{8}$ in. | | | 17 | For Eight-Ply and Extra Double Heavy Rubber and Cotton Belts | 117 | |
| $\frac{11}{16}$ to $\frac{13}{16}$ in. | | | 19 | For Ten-Ply and Extra Heavy Conveyor Belts | 119 | |

A PERFECT FASTENER FOR ALL BELTS

Used and recommended by the Leading Makers of BELT CONVEYERS
Most Satisfactory around Mines and similar places.
Made of toughest Cold Rolled Steel.

IT IS STRONG AND DURABLE

ORDER BY NUMBER.

The wedge-shaped points when driven through the belt force the fibres aside without cutting them, hence the ends of the belt are not weakened, as when holes are punched. *More than 100 Sizes.*
Packed 100 inches in a box, assorted lengths, unless otherwise specified. (This means each box contains sufficient to lace 100 inches in width of belt.) *When writing for samples, specify kind of belt, its width and thickness.*

SEND FOR FREE SAMPLES AND PRICES. A. P.

THE BRISTOL CO., Waterbury, Conn., U. S. A.
NEW YORK: 114 Liberty Street. CHICAGO: 753 Monadnock Building.

Alpha Canvas Belting

IS THE STRONGEST BELT IN THE WORLD.

It is dried under tension and therefore does not stretch on the pulleys.

It costs less than half the price
of Leather and is stronger . . .

Inquiries solicited. Large stock
of all regular sizes on hand at all
times



Branch,

Pittsburg, 106 E. Market St.

Branch,

Chicago, 161 E. Lake Street

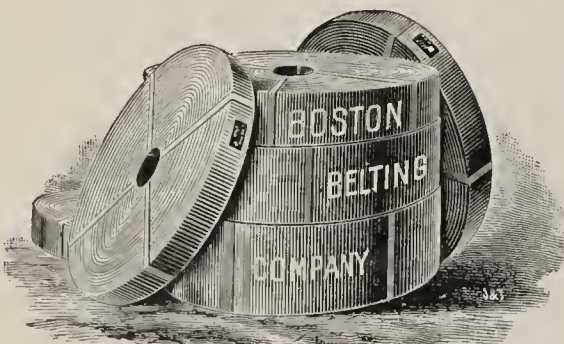
MANUFACTURED BY

The American Belting Company,

AGENCIES IN ALL PRINCIPAL CITIES.

Main Office and Factory, YOUNGSTOWN, OHIO

RUBBER BELTING



For the Transmission of Power.
All Widths up to 72 inches.
Any Number of Plies Desired.

MECHANICAL RUBBER GOODS

of every description. 256-260 Devonshire St.



CONVEYOR BELTING with thick reinforced
cover on one side adapted for carrying coal, ore,
metal, gravel and various materials.

RUBBER BELTING is perfectly uniform in width and thick-
ness, is not readily affected by heat or cold and is well adapted
for use in damp or wet places. It possesses great strength and
durability and costs much less than leather.

MANUFACTURED BY

BOSTON BELTING CO.

JAMES BENNETT FORSYTH, Mfg. Agt. and Gen. Mgr.

BOSTON

NEW YORK

BUFFALO

100-102 Reade St.

90 Pearl Street

Degen, L. P. Belting Co., 105 Mission
Goodyear Rubber Co. (of New York City),
573 Market
Gutta Percha & Rubber Mfg. Co., (of New
York City), 32 Fremont
Heins, Alex. Belting Co., 87 Fremont
Pioneer Belting Co., 850 Division
Revere Rubber Co. (of Boston, Mass.), 527
Market

CONNECTICUT.

BRIDGEPORT—Palmer, N. & Co. ("Charter
Oak," Short Lap Leather)
HARTFORD—Jewell Belting Co. (Leather), 15
Tryon Mfg. Co., 213 Barbour Trumbull
MIDDLETOWN—Russell Mfg. Co. (Solid Cotton)
NEW HAVEN—Coe & Brown (Leather), 204
George
NORWICH—Norwich Belt Mfg. Co. (Oak
Ulmer Leather Co. (Leather) Tanned)
TOLLAND—Sumner, Wm. Belting Co. (Patent
Cotton Leather Belting, Watch Twist, An-
gular or V, Round Solid, Plain Cotton &
Round Twist)

DELAWARE.

WILMINGTON—McComb, Thos. (Leather), 9
S Broad
Rhoades, J. E. & Sons (Leather), 3d & Or-
ange

GEORGIA.

ATLANTA—BOSTON BELTING CO.
(Southern Belting Co., Rep.), 40-46 For-
syth. (See adv. index, end of book)
Ladew, Edward R. (Est. of) ("Hoyt,"
"Flintstone" Short Lap Oak Tanned Belt-
ing), 18 N Forsyth
Southern Belting Co. (Leather), 40 S Forsyth

ILLINOIS.

CHICAGO—Allen, W. D. Mfg. Co. (Leather),
151 Lake
AMERICAN BELTING CO., 161 E.
Lake. (See adv. index, end of book)
BOSTON BELTING CO. (Jewell
Belting Co., Rep.), 175 Lake. (See adv.
index, end of book)
Boston Woven Hose & Rubber Co. (of Cam-
bridge, Mass.) ("Perfection" Rubber Belt-
ing Constructed of Fine Closely Woven
Duck), 145 W Lake
CARPENTER, GEO. B. & Co., 202
S Water. (See adv. index, end of book)
Chicago Belting Co. (Leather), 67 S Canal
Chicago Rawhide Mfg. Co. (Rawhide), 75
E Ohio
Goodyear Rubber Co., 40 Dearborn
Gutta Percha & Rubber Mfg. Co. (of New
York City), 96 Lake
Hamilton Rubber Mfg. Co. (of Trenton, N.
J.), 161 Lake
Hartford Rubber Works Co., (of Hartford,
Conn.), 83 Michigan av
Hercules Mfg. Co., 4328 Greenwood av
Home Rubber Co. (of Trenton, N. J.), 60
S Canal
Jewell Belting Co. (of Hartford, Conn.), 175
Lake
Ladew, Edward R. (Est. of) of New York
City ("Hoyt," "Flintstone" Short Lap
Oak Tanned Belting), 135 E Lake
Lynch, Edw. & Co. (Leather), 19 S Canal
Lyon, Sam'l & Son (Oak Tanned), 8 N Canal
Main Belting Co. (of Phila., Pa.), 55 Market

Manhattan Rubber Mfg. Co. (Rubber), 103
Lake
Mechanical Rubber Co. (Rubber), 230 Ran-
dolpb
Moloney-Bennett Belting Co. (Leather), 76
Franklin
Munson, Chas. Belting Co., 88 Franklin
New York Belting & Packing Co. (Ltd.) (of
New York City) (Rubber), 150 Lake
Norwich Belt Mfg. Co. (of Norwich, Conn.),
33 N Canal
Page Belting Co. (of Concord, N. H.), 16 N
Canal
Revere Rubber Co. (of Boston, Mass.), 168
Lake
Schieren, Chas. A. & Co. (of New York City),
84 Franklin
Sumner, Wm. Belting Co. (of Tolland, Conn.),
19 S Canal
Thomas Belting Co. (Leather), 46 S Clinton
Tuttle, Henry W., 153 S Desplaines
Williams, I. B. & Sons, (of Dover, N. H.),
(Oak Tanned Leather), 17 W Lake
Woodcock Bros., 34 N Canal

INDIANA.

EVANSVILLE—Evansville Leather & Belting
Co. (Leather)
INDIANAPOLIS—BOSTON BELTING CO.
(Taylor Belting Co., Rep.), 247 S Meridian
(See adv. index, end of book)
Hide, Leather & Belting Co., 227 S Meridian

KENTUCKY.

LOUISVILLE—BOSTON BELTING CO.
(W. & A. C. Semple, Rep.), 311 W Main.
(See adv. index, end of book)
Cowan, Andrew & Co. (Leather), 435 W
Main

LOUISIANA.

NEW ORLEANS—BOSTON BELTING CO.
(C. T. Patterson Co., Rep.), 404 Caron-
delet. (See adv. index, end of book)

MAINE.

BANGOR—BOSTON BELTING CO. (M.
Schwartz' Sons, Rep.) (See adv. index,
end of book)
LEWISTON—Dickey, H. H. & Son
SACO—Beatty, Jason, W. & Co.

MARYLAND.

BALTIMORE—Baltimore Belting Co. (Leather),
113 W Lombard
Baltimore Rubber Co. (Rubber), 414 W Balto
BOSTON BELTING CO. (Carey Ma-
chinery & Supply Co., Rep.), 119-121 E
Lombard. (See adv. index, end of book)
Chesapeake Belting Co. (Stitched Canvas),
823 McKim
Gandy Belting Co. (Sewed Cotton Duck)
728 W Pratt
Kelley-Staley Belting Co. (Oak Tanned), 321
N Holiday
Maryland Belting & Packing Co., 502 Dallas
Mount Vernon Belting Co. (Stitched Canvas),
327 Warren av

MASSACHUSETTS.

BOSTON—Barnes, Henry K. (Oak & Mineral
Tanned Leather, Steam & Water Proof),
104 Franklin

Bay State Belting Co. (Oak & Indian Tanned
Leather), 119 Franklin
Beach & Treiber Co. (Imported "Scandi-
navia" Cotton), 372 Atlantic av
BOSTON BELTING CO. (Rubber,
Stitched, Gutta Balata "Forsyth" Patent,
Conveyor, Elevator, Endless, Red Fric-
tioned, etc.), 260 Devonshire. (See adv.
index, end of book)
Boston Woven Hose & Rubber Co., (of
Cambridge, Mass.) ("Perfection" Rubber
Belting Constructed of Fine Closely Woven
Wire), 170 Summer
Carton Belting Co. (Stitched Canvas), 52
Everett, Ails.
Globe Leather Belting Co. (Leather), 151
Pearl
Gutta Percha & Rubber Mfg. Co. (of New
York City), 71 Pearl
Hunt, Henry C. Co. (Leather), 32 Oliver
Ireson, C. L. (Leather), 221 High
Knowlton, Geo. W. Rubber Co. (Rubber),
88 Broad
Ladew, Edward R. (Est. of) of New York
City ("Hoyt," "Flintstone" Short Lap
Oak Tanned Belting), 228 Franklin
Main Belting Co. (of Phila., Pa.), 120 Pearl
National Belting Co., 85 Water
New York Belting & Packing Co. (Ltd.) (of
New York City) (Rubber), 232 Summer
Page Belting Co. (of Concord, N. H.), 31
Pearl
Revere Rubber Co. (Giant, Seamless &
Stitched Rubber), 77 Bedford
Scandinavian Belting Co. ("Scandinavia"
Cotton)
Schieren, Chas. A. & Co., (of New York
City), 186 Lincoln
Shultz Belting Co. (of St. Louis, Mo.)
(Rawhide & Woven Leather Link), 114
Shackley, W. T. & Son, 49 High
Stevens, E. B. & Co. (Leather), 134 Congress
Supple, Francis, 330 Atlantic av
Union Belt Co., 139 Congress
Williams, I. B. & Sons (of Dover, N. H.),
143 Federal
CAMBRIDGE—Boston Woven Hose & Rubber
Co. ("Perfection" Rubber Belting Con-
structed of Fine Closely Woven Duck)
FALL RIVER—Union Belt Co. (Oak Tanned),
66 Troy
HOLYOKE—Holyoke Belting Co. (Short Lap
Leather & Submarine & Waterproof
Leather)
LAWRENCE—Barlow, John W. Co. (Leather)
McLanathan, F. W. (Leather)
National Belting Co. (Canvas & Leather)
LOWELL—Turner, J. S. Mfg. Co. (Oak Tan
Leather)
Whiting, Henry F. (Oak Tanned Leather)
NORTH CHELMSFORD—North Chelmsford
Machine & Supply Co. (Oak Tanned
Leather)
SALEM—Kelton-Bruce Mfg. Co. (Oak & Indiau
Tanned Leather)
SOUTH ATTLEBORO—Coupe, Wm. & Co.
("Excelsior," Raw Hide)
SPRINGFIELD—Springfield Woven Belting Co.
(Woven Leather)
WORCESTER—Graton & Knight Mfg. Co. (Oak
Tanned Leather)
HUDSON BELTING CO. (Indian,
Mineral & Stretched Oak Tanned Leather).
(See adv. below)
Warren, J. F. & W. H. Co. (Oak Tanned), 44
Vine

INDIAN TANNED BELTING,
also MINERAL TANNED.

HUDSON BELTING CO.

MANUFACTURERS OF

Stretched Oak Tanned Leather Belting,

Sheepskin Aprons, Hand Leathers, Round, Twisted and Solid Belting, Strapping, Rubber Belting, Special Belts for
Dynamos, Polishing Belts of Every Description. Also, Wood Pulleys.

Office and Factory, 1 and 3 EATON PLACE,

WORCESTER, MASS.

American Belt Cement

Makes the strongest and
most pliable joint known.

WATERPROOF "MERMAID" LEATHER BELTING.

WRITE FOR DISCOUNT.

Harness Leather: Oak and Union.

"Hudson's Bar" Belt Dressing.

MICHIGAN.

DETROIT—BOSTON BELTING CO. (Muzzy-Lyon Co. (Ltd.), Rep.), Woodward av. (See adv. index, end of book)
 Climax Oak Belting Co., 11 Atwater, E.
 Detroit Oak Belting Co. (Oak Tanned, Short Lap), 262 Wight
 Wolverine Belt Co., 32 Farrar
 Wormer, C. C. Machinery Co., 97 Woodbridge W.
GRAND RAPIDS—Ranville, Felix, 3 Pearl
 Studley & Barclay (Oak Tanned Short Lap) 66 Pearl
NILES—National Rawhide & Belting Co. ("National Surface Tan & Oak Tan, etc.)

MINNESOTA.

MINNEAPOLIS—Nott, W. S. Co. (Oak Tanned Leather), 200 S 1st av
 Sikes, S. R. Co. (Leather), 915 Wash'n av. S.
ST. PAUL—BOSTON BELTING CO. (Crane & Ordway Co., Rep.), 5th & Rosabel. (See adv. index, end of book)

MISSOURI.

KANSAS CITY—BOSTON BELTING CO. (English Iron Works Co., Rep.), 410-412 W 5th. (See adv. index, end of book)
ST. LOUIS—Bennett Dreyer Belting Co., 3110 N 11th
BOSTON BELTING CO. (Handlan-Buck Mfg. Co., Rep.), 210-214 N 3d. (See adv. index, end of book)
 Brynes, J. W. Belting & Hose Co.
 Hartmann Hide & Leather Co. (Leather), 1905 Shenandoah av
 Missouri Belting Co. ("Giant" Rawhide & Oak Tanned Leather), 120 S Commercial
 Monarch Rubber Co., 1009 Wash av
 Page Belting Co. (of Concord, N. H.), 804 N 2d
 Shultz Belting Co. (Raw Hide & Woven Leather Link), 402 Barton
 Spring Belting Co. (Leather), 715 N 2d

NEW HAMPSHIRE.

CONCORD—Page Belting Co. (Leather)
DOVER—Williams, I. B. & Sons (Oak Tanned Leather)
MANCHESTER—Hobbs, Alfred K. (Short Lap Oak Tanned)

NEW JERSEY.

BLOOMFIELD—Crisp, Jas. & Co. (Round & Twist, etc.)
JERSEY CITY—Eureka Fire Hose Co. (Cotton Machine)
 N. J. Car Spring & Rubber Co. (Quilt Stitched), R. R. av e Brunswick
 Voorhees Rubber Mfg. Co. (Rubber, "Criterion," "Union," "Federal," "Bostwick," "American," "Conqueror," "Corliss," "Sensation," "Clairmont," "Power")
NEWARK—Ladew, Edward R. (Est. of), of New York City ("Hoyt," "Flintstone" Short-Lap Oak Tanned Belting), 307 Market
 New Jersey Leather Belt Co. (Oak Tanned)
ROSSENDALE - REDDAWAY Belting & Hose Co. ("Sphinx" & other brands, Stitched Canvas & The "Camel's Hair Brand"). (See adv. below)

PASSAIC—Manhattan Rubber Mfg. Co. (See New York)
 New York Belting & Packing Co. (See N. Y.)
PATERSON—Van Houten, C. C. & Co.
TRENTON—Consolidated Rubber Co. (Rubber)
 Crescent Belting & Packing Co. (Rubber)
 Empire Rubber Mfg. Co. (Rubber & Stitched)
 Hamilton Rubber Mfg. Co. (Rubber)
 Home Rubber Co. (Rubber)
 Lanning, Geo. W. (Oak Leather, etc.)
 Trenton Rubber Mfg. Co. (Rubber & Canvas Stitched)
 United & Globe Rubber Mfg. Co. (Rubber)
 Whitehead Bros. Rubber Co. (Rubber)

NEW YORK.

ALBANY—Albany Belting & Supply Co. (Leather), 372 B'way
BUFFALO—Bickford & Francis Belting Co. (Leather), 55 Exchange
BOSTON BELTING CO. (Rubber, Stitched, Gutta Percha, "Forsyth" Patent, Conveyor, Elevator, Endless, Red Frictioned, etc.), 90 Pearl. (See adv. index, end of book)
 Buffalo Belting Works (Leather), 139 Wash'n
 Buffalo Weaving & Belting Co. (Solid Cotton Machine, two and three ply)
 Peerless Belting Co., 41 Pearl
LOCKPORT—Empire Mfg. Co. (Solid Cotton)

NEW YORK CITY.**Borough of Brooklyn.**

BROOKLYN—Brooklyn Leather Belting Co., 42 S 6th
 N. Y. Leather Belting Co., 467 Kent av
 Schieren, Chas. A. & Co. (Leather), 523 3d av

Boroughs of Manhattan & Bronx

NEW YORK—Ballard, Stephen Rubber Co., 90 W B'way
BOSTON BELTING CO. (of Boston, Mass.) (Rubber, Stitched, Gutta Balata, "Forsyth" Patent Conveyor, Elevator, Endless, Red Frictioned, etc.), 100 Reade. (See adv. index, end of book)
 Boston Woven Hose & Rubber Co. (of Cambridge, Mass.) ("Perfection" Rubber Belting Constructed of Fine Closely Woven Duck), 116 Duane
 Boyle, John & Co. (Solid Woven Cotton, Rubber Filled), 112 Duane
 Bradford Belting Co. (of Cincinnati, O.), 38 Dey
 Chicago Belting Co. (of Chicago, Ill.), 19 Whitehall
 Chicago Raw Hide Mfg. Co. (of Chicago, Ill.), 122 Chambers
 Crescent Belting & Packing Co. (of Trenton, N. J.), 53 Barclay
 Diamond Rubber Co. (of Akron, O.), 78 Reade
 Empire Rubber Mfg. Co. (of Trenton, N. J.) (Rubber & Stitched), 88 Reade
 Eureka Fire Hose Co. (Cotton Machine), 13 Barclay
 Excelsior Rubber Mfg. Co. (Rubber), 28 Vesey
 Fay Belting Co. (Indian Tanned Leather), 3 Jacob
FAY, W. C. BELTING CO. (Oak Tanned), 78 Warren
 Garrett, W. D. & Co. (Leather), 180 Fulton

Goodyear Rubber Co., 787 B'way
Gutta Percha & Rubber Mfg. Co., 126 Duane
Home Rubber Co. (of Trenton, N. J.), 80
Imperial Rubber Co., 253 B'way Reade
Jewell Belting Co. (of Hartford, Conn.), 146 Centre
 Ladew, Edward R. (Est. of) of New York City ("Hoyt," "Flintstone" Short Lap Oak Tanned Belting), 200 William
 Loeb Bros. Belting Co. (Leather), 29 Ferry
 Manhattan Rubber Mfg. Co. ("Condor" Rubber), 18 Vesey
 Mechanical Rubber Co. (Rubber), 91 Chambers
 Mineralized Rubber Co. (Rubber), 18 Cliff
 National Leather Belting Co., 29 Ferry
 New York Belting & Packing Co. (Ltd.), 91 Chambers
 New York Leather Belting Co. (Oak Tanned), 51 Beekman
 New York Rubber Co. (Rubber), 84 Reade
 Page Belting Co. (of Concord, N. H.), 78 Cliff
 Penna Rubber Co. (of Jeanette, Pa.) (Rubber), 1065 B'way
 Providence Belting Co. (of Providence, R. I.), 69 Centre
 Rahmann, Geo. & Co. (Leather), 6 Ferry
 Revere Rubber Co. (of Boston, Mass.), 59 Reade
 Schieren, Chas. A. & Co. (Oak Tanned Leather, etc.), 30 Ferry
 Shultz Belting Co. (of St. Louis, Mo., Rawhide & Woven Leather Link), 111 Chambers
 Southwick, Geo. W. Co. (Inc.) (Reinforced Double), 90 Centre
 Stine, J. R. & Co. (Leather), 51 Beekman
STRONG MACHINERY & SUPPLY Co. ("Strong's" Tisafine), 48 Franklin. (See adv. index, end of book)
 Voorhees Rubber Mfg. Co. (Nubian Rubber), 48 Dey
 Waterbury Rubber Mfg. Co. (Rubber), 75 Warren
 Western Raw Hide & Belting Co. (of Milwaukee, Wis.), 128 Centre
(END OF NEW YORK CITY.)
ROCHESTER—Cross Bros. & Co. (Leather), 114 Mill
 Estes Mfg. Co. (Oak Leather), Triangle bldg
SYRACUSE—Syracuse Supply Co. (Oak Tanned Leather), 314 W Fayette
TROY—Barnum Bros. Co. (Oak Tanned), 179 River
 Pine & Co., 3d av, & 21st
 Troy Belting & Supply Co. (Leather), 6 Grand
UTICA—Smyth-Despard Co. (Oak Tanned Leather)

NORTH CAROLINA.

CHARLOTTE—Charlotte Leather Belting Co.
 Ladew, Edward R. (Est. of) of New York City ("Hoyt," "Flintstone" Short Lap Oak Tanned Belting)

OHIO.

AKRON—Akron Belting Co. (Leather "Akron" Broad)
 Diamond Rubber Co. (Rubber "Python," "Titan," "Spinx," "Gulf," "Moose" & "Lynx")
 Goodrich, B. F. Co. ("Goodrich," "Pilgrim," "Centaur," "Rob Roy" Rubber & Gutta Percha)
CINCINNATI—American Oak Leather Co. Tanners of Oak, Leather, Belting, etc.)
BOSTON BELTING CO. (Queen City Supply Co., Rep.), 201 W Pearl. (See adv. index, end of book)



ROSSENDALE-REDDAWAY BELTING & HOSE CO.,

NEWARK, N. J.

MANUFACTURERS OF

THE "CAMEL" HAIR BELTING, for Transmission.

STITCHED CANVAS BELTING, for Conveying.

LINEN FIRE HOSE, for Fire Protection.

CAMEL BRAKE BANDING, for Automobiles.

BICKFORD & FRANCIS BELTING CO.

MANUFACTURERS OF

***Pure Oak Tanned
Leather Belting***

"SPECIAL BELTS FOR WOOD WORKING MACHINERY"

FRICTION LEATHER FOR AUTOMOBILE USES.

HYDRAULIC LEATHER FOR ALL PURPOSES.

*Office and Factory
35 Pearl St.*

BUFFALO, N. Y.

*Long Distance Telephone
Day and Night Connections*

Bradford Belting Co. (Leather), 2d c Walnut
Cincinnati Rubber Mfg. Co. (Rubber)
Eagle Counter & Leather Co., 414 E 8th
Franklin Cotton Mill Co. (Cotton), Charles

CLEVELAND—Bodifield Belting Co. (Leather),
24 S Water

BOSTON BELTING CO. (W. Bing-
ham Co., Rep.), 1433-1455 9th, N. W. (See
adv. index, end of book)

Cleveland Belting & Machinery Co., 8 Long
Consumers Rubber Co. (Rubber, etc.), 1407

Martin Rawhide Belting Co. (Rawhide,
Mineral Tanned)

Mechanical Rubber Co. (Rubber), C & P &
Nickel Plate R. R.

Sawyer Belting Co. (Canvas Stitched)
Williams, R. A. Co., 55 S Water

TOLEDO—BOSTON BELTING CO.
(Bostwick, Brann Co., Rep.) (See adv. in-
dex, end of book)

Hettrick Bros. Co. ("Hettrick's" Hemp)
YOUNGSTOWN—AMERICAN BELTING
Co. ("Alpha" Heavy Canvas). (See adv.
index, end of book)

Republic Rubber Co. (Rubber)

OREGON.

PORTLAND—BOSTON BELTING CO.
(Pacific Coast Rubber Co., Rep.), 41-43
First. (See adv. index, end of book)

Page Belting Co. (of Concord, N. H.), 66 1st
Simonds Mfg. Co.

PENNSYLVANIA.

ALLENTOWN—BOSTON BELTING CO.
(Wm. H. Taylor & Co., Rep.), 250 Hamil-
ton. (See adv. index, end of book)

GRAMMES, L. F. & SONS (Jobbers
in Leather, Canvas, Rubber & Cotton
Belting). (See adv. index, end of book)

CHESTER—Wilby, Thos. & Sons (Leather)
ERIE—Continental Rubber Works (Rubber)
Lake Shore Rubber Co. (Rubber)

HAZLETON—BOSTON BELTING CO.
(Hazleton Machinery & Supply Co., Rep.).
(See adv. index, end of book)

JEANETTE—Penna Rubber Co. (Rubber)
LANCASTER—Helvetia Leather Co.

NORRISTOWN—Barker Bros. (Round, Twist &
Flat Leather, etc.)

PHILADELPHIA—Alexander Bros. (Oak Tan-
ned), 10 N 2d

Army, C. W. & Son (Oak Tanned), 228 N 3d
BOSTON BELTING CO. (Malconroy
Co. (Inc.), Rep.), 722 Arch. (See adv. in-
dex, end of book)

Brown, D. P. & Co. ("Teon," made in
England), 264 N 4th

Etsweiler, Wm. (Indian Tanned), 230 N 3d
Fisher Leather Belting Co., 1215 Arch

Gilmer, L. H. & Co. (Leather), 3952 Market
Ladew, Edward R. (Est. of New York
City ("Hoyt," "Flintstone" Short Lap
Oak Tanned Belting), 16 S 3d

Main Belting Co. (the Leviathan), 1237
Carpenter

New York Belting & Packing Co. (Ltd.) (of
New York City) (Rubber), 118 N 8th

Page Belting Co. (of Concord, N. H.), 43 N
7th

Paulus, Jos. C. & Co. (Leather), 2507 Potter
Pechin, Jno. W. (Oak Leather), 124 N 3d

Pechin, T. E. (Oak Leather), 19th cor Alle-
gheny av

Quaker City Rubber Co. (Chas. A. Daniel,
Prop.) (Rubber), 629 Market

Restein, Clement & Co. (Rubber, etc.), 139 N 2d
Revere Rubber Co. (of Boston, Mass.), Drex-
el Bldg

Richie, Crawford & Co. (Leather), 420 N 3d
Ruboil Belting Co. (Ruboil Canvas), Bourse
Bldg

Schieren, Chas. A. & Co. (of New York City),
226 N 3d, Factory, N. Y.

Shultz Belting Co. (of St. Louis, Mo.),
(Rawhide & Woven Leather Link), 116
N 3d

Wise & Bailey (Leather), 56 N Front
PITTSBURG—AMERICAN BELTING CO.
("Alpha" Heavy Canvas), 106 E Market.
(See adv. index, end of book)

BOSTON BELTING CO. (J. & H.
Phillips, Rep.), 136 6th. (See adv. index,
end of book)

Hartley-Rose Belting Co. (Leather), 634
Smithfield

Ladew, Edward R. (Est. of New York
City ("Hoyt," "Flintstone" Short Lap
Oak Tanned Belting), 243 Water

New York Belting & Packing Co. (Ltd.) (of
New York City) (Rubber), 913 Liberty av

Pittsburg Rubber & Leather Co. (Leather),
10 Wood

Revere Rubber Co. (of Boston, Mass.), 2 Wood
Schieren, Chas. A. & Co. (of New York
City), 240 3d av

SCRANTON—BOSTON BELTING CO.
(Scranton Supply & Machinery Co., Rep.),
131 Wyoming. (See adv. index, end of
book)

RHODE ISLAND.

PAWTUCKET—Bucklin, C. R. Belting Co.
Weatherhead, Thompson & Co. (Leather)

PROVIDENCE—Brown Bros. Co. (Leather), 62
Ex pl

Providence Belting Co. (Oak Tanned &
Waterproof Copper-Wire Sewed Oak
Leather), 25 Charles

U. S. Mill Supply Co., 60 S Water

TENNESSEE.

MEMPHIS—BOSTON BELTING CO.
(Towner & Co., Rep.), 78 N Main. (See
adv. index, end of book)

Memphis Belting Co., 148 Front
Southern Belting Co., 328 Front

NASHVILLE—BOSTON BELTING CO.
(Keith, Simmons & Co., Rep.), 316-318
Union. (See adv. index, end of book)

VIRGINIA.

RICHMOND—Richmond Leather Mfg. Co.
(Leather), 2201 E Cary

WASHINGTON

SEATTLE—BOSTON BELTING CO. (Pa-
cific Coast Rubber Co., Rep.), 212-216
Jackson. (See adv. index, end of book)

TACOMA—BOSTON BELTING CO. (Pa-
cific Coast Rubber Co., Rep.), 1316-1318 A.
(See adv. index, end of book)

WISCONSIN.

MILWAUKEE—BOSTON BELTING CO.
(A. H. Gardner Co., Rep.), 380 E Water.
(See adv. index, end of book)

Maloney-Bennett Belting Co., 117 W Water
Milwaukee Leather Belting Co., 122 W
Water

Gardner, A. H. Co., 380 E Water
Western Raw Hide & Belting Co. ("White"
Rawhide & "Superior" Surface Tanned),
S Pierce c 7th av

*Belting Mfrs. ("Alpha")

AMERICAN BELTING CO., Youngs-
town, O. (See adv. index & branch offices,
end of book)

Page Belting Co., Concord, N. H.

Belting Mfrs. (Angular)

Rahmann & Co., 6 Ferry, New York
Summer, Wm. Belting Co. (or V Belting), Tol-
land, Conn.

*Belting Mfrs. (Camel's Hair)

ROSSENDALE - REDDAWAY BELT-
ing & Hose Co. (The "Camel's Hair
Brand.") Main Office & Works, Newark,
N. J. (See adv. index, end of book)

Belting Mfrs. (Canvas, Rawhide
Center)

Chicago Rawhide Mfg. Co. (Flint Hide Belting,
Preston Patent), 75 E Ohio, Chicago, Ill.

Belting Mfrs. (Canvas Stitched)

AMERICAN BELTING CO. ("Alpha,"
"American Thresher"), Youngstown, O. (See
adv. index & branch offices, end of book)

Boston Woven Hose & Rubber Co. ("Milo"
Stitched Canvas), Cambridge, Mass.

Carton Belting Co. ("Carton," Stitched Can-
vas), Boston, Mass.

Chesapeake Belting Co., 823 McKim, Balti-
more, Md.

Empire Rubber Mfg. Co., Trenton, N. J., &
60 Reade, N. Y.

Gandy Belting Co., Baltimore, Md.

Main Belting Co. ("Leviathan"), 1219 Car-
penter, Philadelphia, Pa.

Mount Vernon Belting Co., 327 Warren av,
Baltimore, Md.

National Belting Co., Lawrence, Mass.

New Jersey Car Spring & Rubber Co., Jersey
City, N. J.

ROSSENDALE - REDDAWAY BELT-
ing & Hose Co. ("Sphinx" & Other
Brands), Newark, N. J. (See adv. index,
end of book)

Ruboil Belting Co., Bourse bldg, Phila., Pa.
Rubber & Celluloid Harness Trimming Co.,
Newark, N. J.

Sawyer Belting Co., Cleveland, O.
Trenton Rubber Mfg. Co., Trenton, N. J.

Voorhees Rubber Mfg. Co. (Stitched Cotton
Duck), Jersey City, N. J.

Belting Mfrs. (Chain or Link)

BARTLETT, C. O. & SNOW CO.,
Cleveland, O. (See adv. index, end of
book)

Bnhl Malleable Co., Wight & Adair, Detroit,
Mich.

Chain Belt Co., 766 Park, Milwaukee, Wis.
CODD, E. J. CO., 700-708 S. Caroline,
Baltimore, Md. (See adv. index, end of
book)

Diamond Chain & Mfg. Co., Indianapolis, Ind.
DODGE MFG. CO., Mishawaka, Ind.
(See adv. index & branch offices, end of book)

Exeter Machine Works, Pittston, Pa.
Forster, Waterbury & Co. (Detachable), Frank-
lin Park, Ill.

Herschel, R. Mfg. Co., Peoria, Ill.
Howe Scale Co. of Illinois, 1315 Wabash av,
Chicago, Ill.

JEFFREYS MFG. CO., Columbus, O.
(See adv. index & branch offices, end of book)

Link, Jas. H. Machinery Co. ("Arrow Brand"
Detachable Chain), Williamsport, Pa.

Link Belt Co., W 39th c Stewart av, Chicago,
Ill., & 299 B'way, New York

Mey Chain Belting Engineering Works, 34
Washington, Buffalo, N. Y.

Moline Malleable Iron Co., St. Charles, Ill.
Moore & Lorenz Co., 816 Fulton, Chicago, Ill.

National Mat & Belt Co., Real Estate Trust
Bldg, Phila., Pa.

Page Belting Co. (Leather Link), Concord, N. H.
Port Huron Engine & Thresher Co., Port Huron,
Mich.

Stowell Mfg. & Foundry Co. (Malleable Iron), S
Milwaukee, Wis.

Taylor Iron & Steel Co. (Link), High Bridge,
N. J.

Webster Mfg. Co., 1075 W 15th, Chicago, Ill.
WELLER MFG CO., 124 E. North av,
Chicago. (See adv. index, end of book)

West Allis Malleable Iron & Chain Belt Co.,
West Allis, Wis.

Belting Mfrs. (Conveyor)

AMERICAN BELTING CO., Youngs-
town, O. (See adv. index & branch offices,
end of book)

BOSTON BELTING CO., Boston, Mass.
(See adv. index, end of book)

Diamond Rubber Co. ("Cross," etc.), Akron, O.

Sumner, Wm. Belting Co. (Patent Cotton
Leather), Tolland, Conn.

Voorhees Rubber Mfg. Co., Jersey City, N. J.

Belting Mfrs. (Detachable Link)
(See Belting Mfrs., Chain or Link.)

Belting Mfrs. (Dynamo)

Chicago Rawhide Mfg. Co., 75 E Ohio, Chicago,
Ill.

National Rawhide & Belting Co. (Rawhide),
Niles, Mich.

Shultz Belting Co., 402 Barton, St. Louis, Mo.

Western Rawhide & Belting Co. (Surface Tan),
7th av & S Pierce, Milwaukee, Wis.

Belting Mfrs. (Elevator)

(See Belting Mfrs., Conveyor)

Belting Mfrs. (Leather)

(See Belting Mfrs.)

Belting Mfrs. (Perforated)

Schieren, Chas. A. & Co. (Electric), 30 Ferry,
New York

Belting Mfrs. (Raw Hide)

Bay State Belting Co. (Indian Tan), 119 Franklin, Boston, Mass.
 Chicago Rawhide Mfg. Co., 75 E. Ohio, Chicago, Ill.
 Coupe, Wm. & Co. ("Flexible," "Excelsior"), South Attleboro, Mass.
 Kelton-Bruce Mfg. Co. (Indian Tan), Salem, Mass.
 Martin Rawhide Belting Co. (Mineral Tanned), Cleveland, O.
 Missouri Belting Co. ("Giant"), 120 S Commercial, St. Louis, Mo.
 Shultz Belting Co. ("Shultz Sable"), 402 Barton, St. Louis, Mo.
 Western Rawhide & Belting Co. ("Superior," "White"), Milwaukee, Wis.

Belting Mfrs. (Rawhide, Canvas Center)

Martin Rawhide Belting Co., Cleveland, O.
 Shultz Belting Co., 402 Barton, St. Louis, Mo.

Belting Mfrs. (Rope)

(See also Rope, Manila & Sisal)
 American Mfg. Co., 65 Wall, New York
CARPENTER, GEO. B. & CO., 202
 S Water, Chicago, Ill. (See adv. index, end of book)
 Chicago Rawhide Mfg. Co. (Rawhide), 75 E Ohio, Chicago, Ill.
 National Rawhide & Belting Co. (Rawhide, Surface Tanned), Niles, Mich.
 Page Belting Co., Concord, N. H.
 Western Rawhide & Belting Co. (Rawhide), 7th av & S Pierce, Milwaukee, Wis.

Belting Mfrs. (Round or Twist)

Barker Bros. (Round Leather), Norristown, Pa.
 Bay State Belting Co., 119 Franklin, Boston, Mass.
 Chicago Rawhide Mfg. Co. (Rawhide), 75 E Ohio, Chicago, Ill.
 Coupe, Wm. & Co. (Rawhide Round), South Attleboro, Mass.
 Crisp, James & Co., Bloomfield, N. J.
 Gratton & Knight Mfg. Co., Worcester, Mass.
HUDSON BELTING CO., Worcester,
 Mass. (See adv. index, end of book)
 Jewell Belting Co., Hartford, Conn.
 Ladew, Edward R. (Est. of) (Leather), 200 William, New York
 Missouri Belting Co. ("Giant"), St. Louis, Mo.
 National Rawhide & Belting Co. (Rawhide, Surface Tan), Niles, Mich.
 New York Leather Belting Co., 51 Beekman, New York
 Page Belting Co. ("Crown" Leather), Concord, N. H.
 Providence Belting Co. (Folded Twist), 25 Charles, Providence, R. I.
 Rhoads, J. E. & Sons, Wilmington, Del.
 Sumner, Wm. Belting Co. (Patent Cotton Leather), Tolland, Conn.
 Western Rawhide & Belting Co., Milwaukee, Wis.
 Williams, I. B. & Sons ("Gilt Edge" Round), Dover, N. H.

Belting Mfrs. (Rubber)

(See Belting Mfrs.)

Belting Mfrs. (Sewing Machine)

(See Belting Mfrs. Round or Twist)

Belting Mfrs. (Solid Cotton)

Bay State Belting Co. ("Standard"), 119 Franklin, Boston, Mass.
 Boyle, John & Co., 112 Duane, New York
 Buffalo Weaving & Belting Co., Buffalo, N. Y.
 Empire Mfg. Co. ("Empire" Waterproof), Lockport, N. Y.
 Eureka Fire Hose Co., 13 Barclay, N. Y.
 Works, Jersey City, N. J.
 Franklin Cotton Mill Co., Charles & Plum, Cincinnati, O.
 Russell Mfg. Co., Middletown, Conn.
 Scandinavian Belting Co., Boston, Mass.

Belting Mfrs. (Steel Wire)

Phila. Ornamental Wire Co. ("Powco"), 525 Commerce, Phila., Pa.

Belting Mfrs. (Thresher)

AMERICAN BELTING CO. (Endless
 Stitched Canvas), Youngstown, O. (See adv. index & branch offices, end of book)
 Boston Woven Hose & Rubber Co. ("Grain King" Canvas), Cambridge, Mass.
 Carton Belting Co. ("Carton," Endless), Boston, Mass.
 Chesapeake Belting Co. (Endless Stitched Canvas), Baltimore, Md.
 Diamond Rubber Co., Akron, O.
 Gandy Belting Co. (Endless Stitched Canvas), Baltimore, Md.
 Gilmer, L. H. & Co. (Endless), 3952 Market, Phila., Pa.
ROSSENDALE - REDDAWAY BELT-
 ing & Hose Co. (Endless Stitched Canvas), Newark, N. J. (See adv. index end of book)
 Sawyer Belting Co. (Endless Stitched Canvas), Cleveland, O.

***Belting Mfrs. (Waterproof)**

HUDSON BELTING CO. ("Mermaid").
 Worcester, Mass. (See adv. index, end of book)
 Page Belting Co., Concord, N. H. (book)

Belting Mfrs. (Woven Leather)

American Woven Belting Co., Springfield, Mass.

Belts (Linemen's)

Dicke Tool Co., Downers Grove, Ill.
 Galewski, Adolph, 90 Chambers, New York

Belts (Polishing)

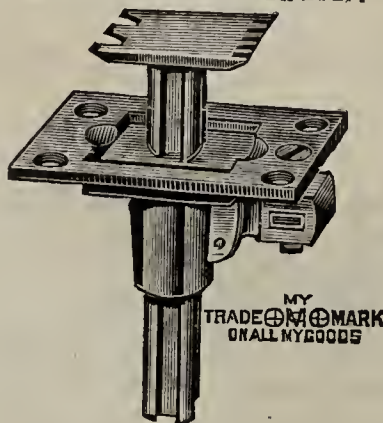
Ames Sword Co. (Endless Silk Sewed), Chicago, Mass.
BOSTON BELTING CO., 260 Devon-
 shire, Boston, Mass. (See adv. index & branch offices, end of book)
 Chicago Rawhide Mfg. Co. (Rawhide), 75 E Ohio, Chicago, Ill.
 Diamond Rubber Co., Akron, O.
HUDSON BELTING CO., Worcester,
 Mass. (See adv. index, end of book)
 Manhattan Rubber Mfg. Co. (Canvas with Rubber Insertion), 18 Vesey, N. Y.

***Bench Legs**

BETHLEHEM FOUNDRY & MACHINE
 Co. (Carpenters' & Pattern Makers'), Front, South Bethlehem, Pa. (See adv. index & branch offices, end of book)
BROWN, A. & F. CO., 25 Dey, New
 York. Works: Elizabethport, N. J. (See adv. index, end of book)

Bench Stops

Bonny Vise & Tool Works (Inc.), 3015 Chestnut, Phila., Pa.
 Cincinnati Tool Co., Norwood, Cincinnati, O.
 Morrill, Chas. ("Morrill's"), 277 B'way, New York.
MORRILL, CHAS. ("Morrill"), 277
 B'way, New York. (See adv. below)
 Smith, Seymour & Son, Oakville, Conn.
 Stover Mfg. Co., Freeport, Ill.
 Vaughn & Bushnell Mfg. Co. ("V. & B." German Pattern), 875 W Carroll av, Chicago, Ill.

MORRILL'S NO.2 BENCH STOP.

TRADE MARK
 ON ALL MY GOODS

MANUFACTURED BY

CHAS. MORRILL, 277 Broadway, N. Y.

Benches (Cabinet & Pattern Makers', Etc.)

Grand Rapids Hand Screw Co., Grand Rapids, Mich.
 Oliver Machinery Co., Grand Rapids, Mich.

Benches (Cutting)

Petoskey Block & Mfg. Co. (All Kinds), Petoskey, Mich.

Benches (Draw)

Bates Machine Co., Joliet, Ill.
BLISS, E. W. CO., 19 Adams, Brook-
 lyn, N. Y. (See adv. index, end of book)
 Cresson, Geo. V. Co., Allegheny av, W of 17th, Phila., Pa.
 Morgan Construction Co., Worcester, Mass.
 Ohl, Geo. A. & Co. (20 ft also 24 ft), Newark, N. J.
 Oliver, W. W. Mfg. Co. (Jewelers, etc.), 1483 Niagara, Buffalo, N. Y.
PERKINS MACHINE CO. (Belt Power
 & Electrically Driven), Warren, Mass. (See adv. index, end of book)
 Richard Mfg. Co. Co., Bloomsburg, Pa.
 Standard Machinery Co., Providence, R. I.
 Vulcan Foundry & Machine Co., New Castle, Pa.
 Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.

***Benches (Folding)**

BETHLEHEM FOUNDRY & MACHINE
 Co., Front, South Bethlehem, Pa., & 149 B'way, New York. (See adv. index & branch offices, end of book)

***Benches (Hydraulic Draw)**

WATSON - STILLMAN CO., 26 Cort-
 landt, New York. (See adv. index, end of book)

Benches (Manual Training)

Grand Rapids Hand Screw Co., Grand Rapids, Mich.
 Pinches, Jno. Co., New Britain, Conn.

Benches (Movable & Stationary)

Western Tool & Mfg. Co., Springfield, O.
 Zering, H. Mfg. Co., Cincinnati, O.

Benches (Saw)

(See Saw Benches.)

Benches (Scraper)

Reed, F. E. Co. (for Machine Shops), Worcester, Mass.

Benches (Wire Drawing)

(See Wire Drawing Machinery)

Benders (Angle & Eye, Hand Power)

Estep & Dolan (also Ring & Hinge), Sandwich, Ill.
 Novelty Iron Works (G. E. Davis, Prop.), Du-
 buque, Ia.
 Wallace Supply Co., 56 5th av, Chicago, Ill.

Benders (Conduit)

(See Conduit Bending Machines.)

Benders (Hook & Eye)

Kidder, J. F. Mfg. Co., Burlington, Vt.

Benders (Lead Pipe)

BERNZ, OTTO, S 13th & S Orange av.
 Newark, N. J. (See adv. index, end of book)
 Cleveland Wire Spring Co., Cleveland, O.
 Lord, L. L. Co. ("Lord"), Meadville, Pa.
 Mark Mfg. Co., Evanston, Ill.
 Raymond Mfg. Co., Corry, Pa.

Benders (Rail)

(See Rail Benders; also Rail Bending & Straightening Machines)

Benders (Ring)

Wallace Supply Co. (Hand Power, from 1 to 20 inch Rings), 56 5th av, Chicago, Ill.

Benders (Tire)

Boynnton & Plummer, Worcester, Mass.
Buffalo Forge Co., Buffalo, N. Y.
Champion Blower & Forge Co., Lancaster, Pa.
Comstock, Geo. S., Mechanicsburg, Pa.
Concord Axle Co., Penacook, N. H.
Fulton Iron Works ("Detroit" Perfected), Detroit, Mich.
Haven Malleable Casting Co., Cincinnati, O.
Illinois Iron & Bolt Co. (Roller Bearing), Carpentersville, Ill.
Kane & Roach, Syracuse, N. Y.
Kinsley Iron & Machine Co., Canton, Mass.
Pleuger & Henger Mfg. Co., 11th & Hebert, St. Potts, David H., Lancaster Pa. Louis, Mo.
Swett, A. L. Iron Works, Medina, N. Y.
Weyburn Co. ("Rockford Ideal"), Rockford, Ill.
Wiley & Russell Mfg. Co. ("Green River"), Greenfield, Mass.
Williams, White & Co. (also Welders), Moline, Ill.

***Bends (Return)**

LUNKENHEIMER CO. (Brass), General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)
WILLIAMS, D. T. VALVE CO., 904 B'way, Cincinnati, O. (See adv. index, end of book)

Benzol Refiners

Barrett Mfg. Co., Land Title bldg, Phila., Pa.
McClintock & Irvine (Crude), Neville & Pa. R. R., Allegheny, Pa.
Pacific Refining & Roofing Co., 113 New Montgomery, San Francisco, Cal.
Solvay Process Co., 25 A K bldg, Syracuse, N.Y.
White Tar Co., 101 N Moore, N. Y.

Berths & Bunks (Metallic)

Lein, Irvine & Co., 332 E 23d, New York

Bevels

Athol Machine Co., Athol, Mass.
Bemis & Call Hardware & Tool Co., Springfield, Mass.
Braunsdorf-Mueller Co. (T Perfection), Elizabeth, N. J.
Chapin-Stephens Co. (Ship Carpenters', etc.), Pine Meadow, Conn.
Disston, Henry & Sons, Tacony, Phila., Pa.
Massachusetts Tool Co. (Draughtsmans'), Greenfield, Mass.
Sawyer Tool Mfg. Co. (Combination), Fitchburg, Mass.
Stanley Rule & Level Co., New Britain, Conn.
Starrett, L. S. Co. (Combination Universal, etc.), Athol, Mass.

Bibbs

(See Cocks & Bibbs.)

Bicycle Mfrs.

Arnold, Schwinn & Co., Chicago, Ill.
Bretz Mfg. Co., Syracuse, N. Y.
Consolidated Mfg. Co. ("Yale"), Toledo, O.
Davis Sewing Machine Co., Dayton, O.
Demorest Mfg. Co., Williamsport, Pa.
Eagle Bicycle Mfg. Co., Torrington, Conn.
Emblem Mfg. Co., Angola, N. Y.
Fowler-Manson-Sherman Mfg. Co., Chicago, Ill.
Gendron Wheel Co., Toledo, O.
Great Western Mfg. Co., La Porte, Ind.
Hendee Mfg. Co., Springfield, Mass.
Hudson Mfg. Co., Hudson, Mich.
Johnson, Iver, Arms & Cycle Works, Fitchburg, Mass.
Keim, Jno. R., Kensington av & Erie R. R., Buffalo, N. Y.
Kirk Bros. Automobile Co. ("Yale"), Toledo, O.
Light Mfg. & Foundry Co., Pottstown, Pa.
Miami Cycle & Mfg. Co. ("Racycle"), Middletown, O.

National Cycle Mfg. Co., Bay City, Mich.
Pierce Cycle Co., Buffalo, N. Y.
Pope Mfg. Co., Hartford, Conn., & 1733 B'way, New York
Reading Standard Cycle Mfg. Co., Reading, Pa.
Snyder, H. P., Little Falls, N. Y.
Thomas, E. R. Motor Co., Buffalo, N. Y.
Toledo Metal Wheel Co., Toledo, O.
Waltham Mfg. Co., Waltham, Mass.
Warwick Automobile & Cycle Co., Springfield.
Worthington Mfg. Co., Elyria, O. Mass.

Bicycle Parts & Sundries

(See also Bolts, Bicycle; also Chains, Bicycle; also Nuts, Bicycle; also Pumps, Bicycle; also Screws, Bicycle; also Springs, Bicycle; also Tubing, Bicycle)

Aurora Automatic Machinery Co. (Hubs), Aurora, Ill.
Brennan Mfg. Co. (Bicycle Handle Bars, etc.), Syracuse, N. Y.
Buckeye Mfg. Co. (Trouser Guards), Canton, O.
Buescher Band Instrument Co., Elkhart, Ind.
Bullock Mfg. Co. (Rims), 172 Dwight, Springfield, Mass.
Climax Mfg. Co. (Saddles, etc.), East Hampton, Conn.
Collmer Bros., South Bend, Ind.
Consolidated Mfg. Co. (Handle Bars), Toledo, O.
Corbin Screw Corporation (Special to Order), New Britain, Conn.

CROSBY CO. (Stamped Steel Fittings & Ball Cups), 171-189 Pratt, Buffalo, N. Y. (See adv. index, end of book)

Frasse, Peter A & Co., 94 Fulton, N. Y.
Harris, E. T., 531 W 15th, Chicago, Ill.
Hoover-Ball Co., Newark, O.
Hunter Arms Co., Fulton, N. Y.
Hydraulic Pressed Steel Co. (Sprockets), E 61st, Cleveland, O.
Keim, John R. (Stamping, Frame Sets, Parts, etc.), Kensington av & Erie R. R., Buffalo, N. Y.
Kirkpatrick Saddle Co. (Saddles), Springfield, O.
Liberty Cycle Co., 166 John, Bridgeport, Conn.
Matthews, H. A. Mfg. Co., Seymour, Conn.
Matthews Mfg. Co. (Fittings, etc.), Worcester, Mass.
New England Machine Screw Co., Thompsonville, Conn.
Page-Storms Drop Forge Co. (Drop Forged), Chicopee Falls, Mass., & Springfield, Mass.

Parish & Bingham Co. (Sprockets), 5363 Hamilton, Cleveland, O.
Perry-Fay Mfg. Co. (Screw Machine Products), Elyria, O.
Parish & Bingham Co. (Sprockets), Cleveland, O.

Port Huron Saw Co. (Ltd.) (Bicycle Pedals), Port Huron, Mich.
Reading Saddle & Mfg. Co. (Saddles, etc.), Reading, Pa.

Standard Co. (Spokes & Nipples), Torrington, Conn.
Standard Steel Tube Co., Toledo, O.
Toledo Mfg. Co., Toledo, O.

Troxel Mfg. Co. (Saddles, etc.), Elyria, O.
Turner Brass Works, 66 Michigan, Chicago, Ill.
Union Mfg. & Specialty Co., Buffalo, N. Y.

Western Automatic Machine Screw Co., Elyria, Ohio

WORCESTER PRESSED STEEL CO. (Fittings, etc.), Worcester, Mass. (See adv. index, end of book)

Worthington Mfg. Co. (Bicycles & Tricycles), Elyria, O.

Bicycle Spoke Threaders

Blake & Johnson, Waterbury, Conn.
Detrick & Harvey Machine Co., 508 E Biddle, Baltimore, Md.
Geometric Drill Co., New Haven, Conn.
Goodell-Pratt Co., Greenfield, Mass.
Manville Machine Co., Waterbury, Conn.

Bicycle Wheel Truing Stands

Dudley, A. Mfg. Co., Menominee, Mich.

Bidets

Dalton-Ingersoll Co., Boston, Mass.
Mott, J. L. Iron Works, 118 5th av, New York
Peck Bros. & Co., 125 Chestnut, New Haven, Conn.

Billets (Steel)

(See also Steel Importers.)

American Bridge Co., 42 B'way, New York. & Penna bldg, Philadelphia, Pa.

AMERICAN STEEL & WIRE CO.,

The Rookery, Chicago, Ill. (See adv. index & branch offices, end of book)
American Tube & Stamping Co. (Open Hearth, Crucible & "Swedoh"), Bridgeport, Conn.
Ashland Steel Co. (Bessemer Steel Billets & Slabs), Ashland, Ky.
Bethlehem Steel Co., South Bethlehem, Pa., & 100 B'way, New York
Cambria Steel Co., Acadia bldg, Phila., Pa. Works: Johnstown, Pa.
Carbon Steel Co., 32d & Smallman, Pittsburgh, Pa., & 26 Cortlandt, N. Y.
Carnegie Steel Co., General Offices Carnegie bldg, Pittsburgh, Pa.
Colonial Steel Co. (Open Hearth), Pittsburgh, Pa.
Colorado Fuel & Iron Co., Denver, Colo.
Crucible Steel Co. of America, Frick bldg, Pittsburgh, Pa.

Eastern Steel Co., Pottsville, Pa.
Harrisburg Pipe & Pipe Bending Co. (Open Hearth, Billets, Slabs & Strips), Harrisburg, Pa.

Illinois Steel Co., The Rookery, Chicago, Ill.
Jones & Laughlin Steel Co., Pittsburgh, Pa.
La Belle Iron Works, Steubenville, O.

LEAVITT, C. W. & CO., 222 B'way, New York. (See adv. index, end of book)
Lee, Jas. & Co. (Scotch, Importers), 76 William, New York

Lukens Iron & Steel Co., Coatesville, Pa.
Maryland Steel Co. (Billets), Baltimore, Md.
Midvale Steel Co., main office & works, Nicetown, Philadelphia, Pa.

Milliken Bros. (Inc.), 11 B'way, New York
New York State Steel Co. (also Blooms & Slabs), White bldg, Buffalo, N. Y.

Otis Steel Co., Cleveland, O.
Penna. Steel Co. (also Slabs), Girard Trust bldg, Phila., Pa.

Portsmouth Steel Co. (Steel Billets, Slabs & Plates), Wheeling, W. Va. Works, Portsmouth, O.

Republic Iron & Steel Co. (Bessemer & Open Hearth), Frick hldg Annex, Pittsburgh, Pa.
Sharon Steel Hoop Co. ("Open hearth steel billets"), Sharon, Pa.

Snyder, W. P. & Co. (Billets & Sheet Bars, Dealers), Frick hldg, Pittsburgh, Pa.

Southern Steel Co. (also Blooms & Slabs), Birmingham, Ala.
Stewart Iron Co. (Ltd.) (Blooms only), Cleveland, O., & Sharon, Pa.

Tennessee Coal, Iron & R. R. Co., "also Blooms & Slabs," Birmingham, Ala.

United Steel Co. (Open Hearth also Slabs), Canton, O.
Virginia Coal, Iron & Coke Co., Bristol, Tenn.

Washburn Wire Co. (Billets only), Phillipsdale, R. I.

Wheeling Steel & Iron Co., Wheeling, W. Va.
Wood, Alan, Iron & Steel Co. (Basic Open Hearth Steel, also Slabs), 519 Arch, Phila., Pa.

Billiard Table Beds (Slate)

Allen's, S. Sons, Fair Haven, Vt.
American Slate Co., Bangor, Pa.
Coulman & Westcott, Fair Haven, Vt.
Fair Haven Marble & Marbleized Slate Co., Fair Haven, Vt.
Hinchey Bros., Hydeville, Vt.
Scotch Hill Slate Co., Fair Haven, Vt.
Slatington Slate Co., Slatington, Pa.

**When writing to firms
whose names appear
in this book please
mention**

**HENDRICKS'
COMMERCIAL
REGISTER.**

*Billiard & Pool Tables (Portable for Houses)

BURROWES, E. T. CO., 70 Free, Portland, Me. (See adv. below, & branch offices, end of book)

Binders

(See Harvesters, Various Kinds.)

Binnacles

Bliss, Jno. & Co., 128 Front, New York
Merrills, R. Sons, 66 South, New York
Negus, T. S. & J. D., 140 Water, New York
Riggs & Bro. (Compensating), 310 Market, Philadelphia, Pa.

Binoculars, Telescopes & Marine Glasses

Bausch & Lomb Optical Co., Rochester, N. Y.
Goerz, C. P. Optical Works ("Trieder"), 52 Union square E, New York
Spencer Optical Mfg. Co. ("Audemair"), 12 Maiden la, New York
Stevens, J. Arms & Tool Co. (Rifle Telescopes), Chicopee Falls, Mass.

Bins (Steel)

Power & Mining Machinery Co., 52 William, N. Y. Works, Cudahy, Wis.
SCAIFE, WM. B. & Sons CO., 221 1st av, Pittsburg, Pa. (See adv. index, end of book)
WELLMAN - SEAVER - MORGAN CO. (For Coal & Ore Storage), Cleveland, O., & Akron, O. (See adv. index, end of book)

*Bins (Wire)

BUFFALO WIRE WORKS CO., 316 Terrace, Buffalo, N. Y. (See adv. index, end of book)

Bismuth

Grosscurth & Luboldt, London, Eng.
Mallinckrodt Chemical Works, St. Louis, Mo., & 90 William, New York
Merck & Co., University pl & 8th, New York
New York Quinine & Chemical Works, 114 William, New York
Pfizer, Chas. & Co., 81 Maiden la, New York
Powers-Weightman-Rosengarten Co., Phila., Pa., & 56 Maiden la, New York

Bit Braces

Chantrell Tool Co., Reading, Pa.
Detroit Twist Drill Co., Detroit, Mich.
Dicke Tool Co. (for Electricians, Plumbers, etc.), Downers Grove, Ill.
Fray, John S. & Co. (Ratchet, Sleeve, Drill & Corner Braces), Bridgeport, Conn.
Goodell-Pratt Co. (Ratchet, Sleeve & Corner "Spofford"), Greenfield, Mass.
Ives, W. A. Mfg. Co., 299 B'way, New York
Lancaster Machine & Knife Works (Ratchet & Straight), Lancaster, N. Y.



Sizes, 3x6 ft. to 4x8 ft.

10 STYLES.

Write for Catalogs and Trade Discount.

THE E. T. BURROWES CO.

2 Free Street, PORTLAND, MAINE

Mason & Parker, Winchendon, Mass.
Mayhew, H. H. Co. (also Angle Bit Braces), Shelburne Falls, Mass.
Millers Falls Co., Millers Falls, Mass., & 28 Warren, New York
Peck Stow & Wilcox Co., Southington, Conn.
Smith, J. Bartou Co., Hope & Norris, Phila., Pa.
Stanley Rule & Level Co. (Carpenters'), New Britain, Conn.
Stortz, Jno. & Son., 210 Vine, Phila., Pa.
Turner & Deegan, Bristol, Conn.

Bits (Auger)

Adams, A. L., 151 Middle, Bridgeport, Conn.
American Auger Bit Co., Forestville, Conn.
Bridgeport Gun Implement Co., 219 Elm, Bridgeport, Ct.
Chester Mfg. Co., Chester, Ct.
Connecticut Valley Mfg. Co. ("Wright's Jennings"), Centerbrook, Conn.
Deuse, J. S. (also German, Double Cub, etc.), Chester, Conn.
Ferguson, J. R. & Co., Chester, Conn.
Ford Auger Bit Co. (Machine, Ship, Car, etc.), Holyoke, Mass.
Garritt & Beach, Seymour, Conn.
Greenlee Bros. & Co., Railway Exchange bldg. Chicago, Ill.
Hartley, M. Co., 313 B'way, New York.
Humphreysville Mfg. Co., Seymour, Conn.
Irwin Auger Bit Co., Wilmington, O.
Ives, W. A. Mfg. Co., 299 B'way, New York
Jennings, C. E. & Co. (Gimlet), 42 Murray, New York
Krauter & Co., 577 18th av, Newark, N. J.
Mack & Co., Rochester, N. Y.
Mayhew, H. H. Co. (Gimlet), Shelburne Falls, Mass.
New Haven Copper Co., Seymour, Conn.
Ohio Tool Co. ("Bailey"), Columbus, O.
Peck, Stow & Wilcox Co., Southington, Conn.
Progressive Mfg. Co. ("Forstner"), Torrington, Conn.
Pugh, Job T., 3101 Ludlow, Philadelphia, Pa.
Rockford Bit Co., Kokomo, Ind.
Russell, Jennings Mfg. Co., Deep River, Conn.
Russell & Erwin Mfg. Co., New Britain, Conn., 45 Chambers, New York
Silver Mfg. Co. (Solid Center), Salem, O.
Snell Mfg. Co., Fiskdale, Mass.
Swan, Jas. Co. ("Cook's," etc.), Seymour, Conn.
Tower & Lyon Co., 95 Chambers, N. Y.

Bits (Car)

Connecticut Valley Mfg. Co. ("Wright's Jennings"), Centerbrook, Conn.
Ford Auger Bit Co., Holyoke, Mass.
Irwin Auger Bit Co., Wilmington, O.
Ives, W. A. Mfg. Co., 299 B'way, New York
Mack & Co., Rochester, N. Y.
Ohio Tool Co. ("Bailey"), Columbus, O.
Rockford Bit Co., Kokomo, Ind.
Russell-Jennings Mfg. Co., Deep River, Conn.
Snell Mfg. Co., Fiskdale, Mass.
Swan, Jas. Co. ("Cook's," "Jennings'," Pat-tern, Seymour, Conn.

Bits (Countersink)

Mayhew, H. H. Co., Shelburne Falls, Mass.
Vaughn & Bushnell Mfg. Co. ("V. & B.," Cast Steel for Wood or Metal), 875 W Carroll av, Chicago, Ill.

Bits (Dowel)

Connecticut Valley Mfg. Co., Centerbrook, Conn.
Irwin Auger Bit Co., Wilmington, O.
Ohio Tool Co. ("Bailey"), Columbus, O.
Russell-Jennings Mfg. Co., Deep River, Conn.
Swan, Jas. Co. ("Jennings'," Pattern), Seymour, Conn.

*Bits (Drill)

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)

Bits (Electricians' & Bell Hang-ers')

Cincinnati Tool Co., Norwood, Cincinnati, O.
Detroit Twist Drill Co., Detroit, Mich.
Deuse, J. S., Chester, Conn.
Jennings, C. E. Co., 42 Murray, N. Y.
Stortz, Jno. & Son, 210 Vine, Phila., Pa.
Swan, James Co., Seymour, Conn.

Bits (Expansive)

Barrett Machine Tool Co., Meadville, Pa.
Brown, R. H. & Co. ("Clark's"), New Haven, Conn.
Conn Valley Mfg. Co. ("Clark"), Centerbrook, Conn.
Ives, W. A. Mfg. Co., 299 B'way, New York
Jennings, C. E. & Co., 42 Murray, New York
Kilborn & Bishop Co., New Haven, Conn.
Lord, L. L. Co. ("Lord"), Meadville, Pa.
Mayhew, H. H. Co., Shelburne Falls, Mass.
Swan, James Co. ("Clark's," "Swan's"), Seymour, Conn.

Bits (Gimlet)

Garrett & Beach, Seymour, Conn.
Jennings, C. E. & Co., 42 Murray, New York Works, Chester, Conn.
Mayhew, H. H. Co., Shelburne Falls, Mass.
Stortz, Jno. & Son, 210 Vine, Phila., Pa.
Swan, Jas. Co. (German), Seymour, Conn.

Bits (Hollow Chisel)

Forest City Bit & Tool Co., Rockford, Ill.
Greenlee Bros. Co., 225 W 12th, Chicago, Ill.
Irwin Auger Bit Co., Wilmington, O.
Pugh, Job T., 2100 Ludlow, Philadelphia, Pa.

Bits (Hub Boring)

Detroit Twist Drill Co., Detroit, Mich.
Forest City Bit & Tool Co., Rockford, Ill.
Irwin Auger Bit Co., Wilmington, O.
National Twist Drill & Tool Co., ("National"), Detroit, Mich.

Bits (Machine)

Detroit Twist Drill Co., (Straight Shank, etc.), Detroit, Mich.
Ford Auger Bit Co., Holyoke, Mass.
Greenlee Bros. & Co., Railway Exchange bldg, Chicago, Ill.
Irwin Auger Bit Co., Wilmington, O.

BURROWES

PORTABLE

BILLIARD

AND POOL TABLES

-For Home Playing.

\$20.00 to \$140.00

BURROWES FEATHER-WEIGHT FOLDING TABLE.

SQUARE, 30 inch Top, weighs only 9½ lbs.
ROUND, 43 " " " " 13½ "



E.G. SOLTSMANN

ESTAB. 1880

125 E. 42ND ST. NEW YORK

NEXT TO GRAND CENTRAL STATION

BLUE OR BLACK

ELECTRIC LIGHT

PRINTS

MADE WHILE YOU WAIT

PRICES FOR LARGE PRINTS UP TO 4½ × 12 FT.

BLACK PRINTS 3¢ SQ. FT.

BLUE PRINTS 2¢ " "

BLUE PRINT PAPER

COMPO-BOARD

FOR ALTERATIONS

DRAWING MATERIALS

WHEN IN
HURRIED
NEED OF A
LARGE
QUANTITY
OF

PRINTS,

SEND YOUR

TRACINGS

AND IF THEY

ARRIVE BY

EXPRESS

IN THE

MORNING

THEY CAN BE

SHIPPED ON THE

SAME

DAY WITH THE

PRINTS.

"SEPPIAN"

BROWN PRINT

NEGATIVES

MADE FROM TRACINGS.

"SEPPIAN"

POSITIVE PRINTS.

THIS SHEET REPRESENTS No. 408 "CONGRESS" EXTRA EXTRA THICK BLUE PRINT PAPER.

SEE OTHER SIDE.

TEL. 6057-38TH

WRITE FOR PRICES, ETC.

E.G. SOLT MANN
ESTAB. 1880

125 E. 42ND ST. NEW YORK

NEXT TO GRAND CENTRAL STATION

BLUE OR BLACK
ELECTRIC LIGHT

PRINTS

MADE WHILE YOU WAIT

PRICES FOR LARGE PRINTS UP TO $4\frac{1}{2} \times 12$ FT.

BLACK PRINTS 3¢ SQ. FT.

BLUE PRINTS 2¢ " "

BLUE PRINT PAPER

COMPO-BOARD
FOR ALTERATIONS

DRAWING
MATERIALS

WHEN IN
HURRIED
NEED OF A
LARGE
QUANTITY
OF
PRINTS,
SEND YOUR
TRACINGS
AND IF THEY
ARRIVE BY
EXPRESS
IN THE
MORNING
THEY CAN BE
SHIPPED ON THE
SAME
DAY WITH
THE
PRINTS.

"SEPPIAN"
BROWN PRINT
NEGATIVES
MADE FROM TRACINGS.

"SEPPIAN"
POSITIVE PRINTS.

THIS SHEET REPRESENTS No. 408 "CONGRESS" EXTRA EXTRA THICK BLUE PRINT PAPER.
SEE OTHER SIDE.

NEW PROCESS TWIST DRILL CO., Tauton, Mass. (See adv. index, end of book)

Ohlo Tool Co. ("Bailey"), Columbus, O.
Progressive Mfg. Co. ("Forstner"), Torrington, Conn.

Pugh, Job T., 3101 Ludlow, Phila., Pa.
Rockford Bit Co., Kokomo, Ind.
Russell-Jennings Mfg. Co., Deep River, Conn.
Sandusky Tool Co., Sandusky, O.
Silver Mfg. Co. Round Lap & Solid Center,
Snell Mfg. Co., Fiskdale, Mass. Salem, J.
Stortz, Jno. & Son, 210 Vine, Phila., Pa.
Swan, James Co., Seymour, Conn.

WHITMAN & BARNES MFG. CO. (For Wood), Chicago, Ill. (See adv. index & branch offices, end of book)

Bits (Mining Machine)

Hardsoeg, Martin Co. (Tool Steel), Allegheny, Harris, Wm. & Son, Allegheny, Pa. Pa.

JEFFREY MFG. CO., Columbus, O. (See adv. index & branch offices, end of book)

Pittsburg Tool & Drop Forge Co. ("Cheswick"), Works, Cheswick, Pa.

Bits (Rail Drill)

Buda Foundry & Mfg. Co., Chicago, Ill.; Works: Harvey, Ill.

Bits (Reamer)

Johnson, Wm. (Hedberg Works), Newark, N. J.

Vaughn & Bushnell Mfg. Co. ("V. & B."), 875 W Carroll av, Chicago, Ill.

Bits (Screw Driver)

Braunsdorf-Mueller Co., Elizabeth, N. J.
Buck Bros., Millbury, Mass.

Buck, Chas., Millbury, Mass.
Cincinnati Tool Co., Norwood, Cincinnati, O.

Coun. Valley Mfg. Co., Centre Brook, Conn.
Deuse, J. S., Chester, Conn.

Fray, Jno. S. & Co. ("Fray's" Hollow Handle Screw Driver Sets), Bridgeport, Conn.

Goodell-Pratt Co., Greenfield, Mass.
Humason & Beckley Mfg. Co., New Britain, Conn.

Irwin Auger Bit Co., Wilmington, O.
Jennings, C. E. & Co., 42 Murray, New York Works, Chester, Conn.

Johnson, Wm. (Hedberg Works), Newark, N. J.

Keystone Drop Forge Works (Drop Forged), 20th & Clearfield, Philadelphia, Pa.

Knapp & Cowles Mfg. Co., Bridgeport, Conn.
Krauter & Co., 577 18th av, Newark, N. J.

Millers Falls Co., Millers Falls, Mass., & 28 Warren, New York

Ohlo Tool Co., Columbus, O.
Sawyer Tool Mfg. Co. ("Samson"), Fitchburg, Mass.

Snell Mfg. Co., Fiskdale, Mass.
Standard Tool Co., Central av & C. & P. R'y, Cleveland, O.

Stortz, John & Son, 210 Vine, Philadelphia, Pa.
Swan, Jas. Co., Seymour, Conn.

Syracuse Twist Drill Co., Syracuse, N. Y.
Tuck Mfg. Co., Brockton, Mass.

Vaughn & Bushnell Mfg. Co. ("V. & B."), 875 W Carroll av, Chicago, Ill.

WHITMAN & BARNES MFG. CO., Chicago, Ill. (See adv. index & branch offices, end of book)

Bits (Tapping)

Snell Mfg. Co., Fiskdale, Mass.
Swan, James Co., Seymour, Conn.

Blackboard Surfacing Material

Acme White Lead & Color Works, Detroit, Mich.
American Soapstone Finish Co. ("The Potter"), Chester Depot, Vt.

Burdsal, A. Co., 102 S Meridian, Indianapolis, Ind

Caxton Co., 378 Wabash av, Chicago, Ill.
Felton, Sibley & Co., 136 N 4th, Phila., Pa.

Lucas, Jno. & Co., 4th & Race, Phila., Pa.

*Blackboards (Compo Board)

NORTHWESTERN COMPO BOARD Co., Minneapolis, Minn. (See adv. index, end of book)

*Blackboards ("Compresso")

SOLTMANN, E. G. (Something Every School Can Use), 125 E 42d, New York. (See adv. index, end of book)

*Blackboards (School "Compresso")

SOLTMANN, E. G. (The Best Artificial Blackboards, in any size up to 4x12 ft), 125 E 42d, New York. (See adv. index, end of book)

Blackboards (Slate)

Allen's, S. Sons, Fair Haven, Vt.
American School Slate Works, Slatington, Pa.

American Slate Co., East Bangor, Pa., & East Atlas Slate Co., Slatington, Pa. ton, Pa.

Auld & Conger, 262 Prospect av, Cleveland, O.
Bachmau Bros, Walnutport, Pa.

Bangor Crescent Slate Co., Bangor, Pa.
Bangor Slate Co., Bangor, Pa.

Bangor Slate Mining Co., Bangor, Pa.
Bangor Structural Slate Co., Bangor, Pa.

Blue Diamond Slate Co., Slatington, Pa.
Blue Valley Slate Co., Slatington, Pa.

Carbon Slate Co., Slatington, Pa.
Columbia Slate Co., Slatington, Pa.

Crown Slate Co., Pen Argyl, Pa.
Dalby, R. H. Co., Slatington, Pa.

Edwards Slate Co., Graubville, N. Y.
Excelsior Slate Co., Pen Argyl, Pa.

Genuine Bangor Slate Co., Easton, Pa., & Bangor, Pa.

Grand Central Slate Co., Pen Argyl, Pa.
Hahn, Granville, Walnutport, Pa.

Hercules Slate Co., Bangor, Pa.
Helmback Slate Co., Bethlehem, Pa.

Hinchey Bros., Hydeville, Vt.
Hower, J. K., Slatington, Pa.

International Slate Co., Slatington, Pa.
Lackawanna Slate Co., Portland, Pa.

Lobb's, Wm. Sons, Pen Argyle, Pa.
McKenna, David, Slatington, Pa.

MEADOW BROOK SLATE CO., Slatington, Pa. (See adv. index, end of book)

Miller, O. A. Slate Co., Slatington, Pa., & 127 W Logan, Gtn., Phila., Pa.

Monarch Slate Mfg. Co., Slatington, Pa.
Monson Maine Slate Co., 113 Devoushire, Boston, Mass.

Moyer, J. S. & Co., Bethlehem, Pa., & Bangor, Pa.
North Bangor Slate Co., Bangor, Pa.

Pelican Slate Mfg. Co. Wind Gap, Pa.
Penna. Natural Slate Black Board Co., Slatington, Pa.

Penna Structural Slate Co., Easton, Pa.
Peters, E. D. & Sons, Slatington, Pa.

Provident Slate Co., Slatington, Pa.
Sieger, Henry N. & Son, Slatington, Pa.

Schoonover, R. P. & Co., Bangor, Pa.
SCRANTON SLATE CO., Slatington, Pa. (See adv. index, end of book)

Slatington-Bangor Slate Syndicate, Slatington, Pa.
Slatington Slate Co., Slatington, Pa., & 181 B'way, N. Y.

Steckel, Sam'l. Slatington, Pa.
Unger, John F., Slatington, Pa., & 1006 Mt. Vernon, Phila., Pa.

*Black Diamonds

BANDLER, BERNARD & SON (also Bort for Diamond Drills & Mechanical Purposes), 65 Nassau, New York. (See adv. index, end of book)

DESSAU'S, S. SONS (for Diamond Drills & all Mechanical Purposes, also Bortz), 180 B'way, New York. (See adv. index, end of book)

Black Lead

Asbury Graphite Mills (H. M. Riddle, Prop.) (Miners & Refiners), Asbury, N. J.

DIXON, JOS. CRUCIBLE CO. (Mon- mouth & Wayne, Jersey, City, N. J. (See adv. index & branch offices, end of book)

Doggett, Stanley, 101 Beekman, New York
Kelly, Thos. P. & Co., 544 W 22d, N. Y.

Obermayer, S. Co., 647 Evans, Cincinnati, O.
Standard Graphite Co., 11 B'way, New York

United States Graphite Co., 1208 Arch, Phila., Pa.

Black & Blue Prints & Papers

Aloe, A. S. Co., 513 Olive, St. Louis, Mo.
American Blue Print Co., 44 E 22d, New York

American Blue Print Paper Co., 102 E Van Buren, Chicago, Ill.
Barclay, Jos. D. & Sons, 1411 Filbert, Phila., Pa.

Beatty, F. W., 169 William, N. Y.

Blue & Blank Print Co., 110 Franklin, Buffalo, N. Y.

Blue Print Co., 1520 Chestnut, Phila., Pa.
Blumhard, C. A. Blue Paper Co., 38 S 6th, Phila., Pa.

Boston Blue Print Co., 12 India, Boston, Mass.
Chicago Blue Print Paper Co., 160 Adams, Chicago, Ill.

Christensen, H. B. Co., 33 Murray, New York.
Cincinnati Blue Print Co., 141 E 4th, Cincinnati, O.

Cole, H. Co., 82 N High, Columbus, O.
DIETZGEN, EUGENE CO., 181 Mon- roe, Chicago, Ill. (See adv. index & branch offices, end of book)

ELLIOTT, B. K. CO., 108 6th, Pitts- burg, Pa. (See adv. index, end of book)

Farnham, H. A., 313 Vine, Washington, D. C.
Gurley, W. & L. E., Troy, N. Y.

Hewlett, Geo. B., 32 Front, New York
Indianapolis Blue Print & Supply Co., 142 N Illinois, Indianapolis, Ind.

Keuffel & Esser Co., 127 Fulton, New York
Keystone Blue Paper Co., 910 Filbert, Phila., Pa.

KOLESCH & CO., 138 Fulton, N. Y. (See adv. index, end of book)

Kopp, Geo. L. & Co., 538 Smithfield, Pittsburgh, Pa.

McCullin, Thos. H. & Co., 54 N 9th, Phila., Pa.
Moss, Chas. E., 38 Broad, Boston, Mass.

National Blue Print Co., 33 E 17th, New York
New York Blue Print Paper Co., 58 Reade, New York

New York Multi-Color Copying Co., 1 State, New York
Pease-Pearson Continuous Blue Printing Co., Tacoma bldg, Chicago, Ill.

Peerless Blue Print Co., 121 W 24th, N. Y.
Penn. Blue Print Co., 100 Arch, Phila., Pa.

Post, Fred'k Co., 218 S Clark, Chicago, Ill.
Power Wallace Co., 1219 Arch, Phila., Pa.

QUEEN & CO. (Inc.), n. w. e 8th & Arch, Philadelphia, Pa. (See adv. index, end of book)

RUCKERT, LOUIS, Merchants Laclede bldg, St. Louis, Mo. (See adv index, end of book)

Schwencke, Kirk & Co., 227 Fulton, New York
Smith, G. W., 915 Arch, Philadelphia, Pa.

SOLTMANN, E. G. (Also everything for the Architect, Engineer & Draughting Room), 125 E 42d, New York. (See adv. index, end of book)

Spaulding Print Paper Co., 44 Federal, Boston, Mass.

Standard Blue Print Co., 1 Madison av, New York

Storey, H. H. & Co., 329 Walnut, Phila., Pa.
Technical Supply Co. ("Tec"), Scranton, Pa.

United States Blue Print Paper Co., 263 La-salle, Chicago, Ill.

WEBER, F. & CO., 1125 Chestnut, Philadelphia, Pa. (See adv. index, end of book)

Taws, Henry M., 920 Arch, Phila., Pa.
Wallace Power Co., 1219 Arch, Phila., Pa.

Williams, Brown & Earle, 918 Chestnut, Phila., Pa.
Young & Sons, 43 N 7th, Phila., Pa.

Blacksmiths' Supplies

See Anvils;
Bellows, Blacksmiths', Etc.;

Benders, Tire, Etc.;

Bolts, Various Kinds;
Drills, Various Kinds;

Forges, Various Kinds;
Hammers, Various Kinds;

Iron, Steel & Heavy Hardware;
Iron & Steel, Bar, Etc.;

Nails, Various Kinds;
Nuts, Various Kinds;

Presses, Various Kinds;
Punches, Various Kinds;

Rivets, Various Kinds;
Shoes, Horse, Mule, Etc.;

Springs, Various Kinds;
Taps, Various Kinds;

Tools, Various Kinds;
Vises, Various Kinds;

Washers, Various Kinds;
Wrenches, Various Kinds.

For all other Specialties see Index of Contents.

Blades (Hack Saw)

(See index of contents.)

Blades (Metal Fan)

Bridgeport Brass Co., Bridgeport, Conn., & 19 Murray, New York

Waterbury Brass Goods Corporation, Waterbury, Conn.

Blades (Metal Shear)

BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)
Cincinnati Punch & Shear Co., 422 Plum, Cincinnati, O.
Disston, Henry & Sons, N Front & Laurel, Philadelphia, Pa.
Hankey, A. & Co., Rochdale, Mass., & 1213 Race, Phila., Pa.
Heppenstall Forge & Knife Co., 47th & A. V. R'y, Pittsburgh, Pa.
Hilles & Jones Co., Wilmington, Del.
Lloyd, Chas. & Co., 558 Water, New York
NIAGARA MACHINE & TOOL WKS., Superior & Randall, Buffalo, N. Y. (See adv. index, end of book)
Ohl, George & Co., Newark, N. J.
White, E. J. Co., Buffalo, N. Y.

Blades (Shoe Cutters' Extension)

Richard Stephen Co., Southbridge, Mass.
Tuck Mfg. Co., Brockton, Mass.

Blanchers (Peanut)

(See also Peanut Machinery)

Lambert Machine Co., Marshall, Mich.
McLean, Jno., Lockport, N. Y.

*Blankets (Printers' & Lithographers')

BOSTON BELTING CO., 260 Devonshire, Boston, Mass. (See adv. index, & branch offices, end of book)

Blanks (Caliper Gauge)

Corbin Screw Corporation (Internal & External), New Britain, Conn.

Blanks (Key)

Bohannon, Wilson, 754 Lexington av, Brooklyn, N. Y.
Corbin Cabinet Lock Co., New Britain, Conn.
Eagle Lock Co., Terryville, Conn.
New England Butt Co., 304 Pearl, Providence, R. I.
Nock, Geo. W. ("Nock-Phila"), 126 N 4th, Philadelphia, Pa.

Blanks (Thumb, Nut & Screw)

Billings & Spencer Co., Hartford, Conn.
Keystone Drop Forge Works, Chester, Pa.
Penn Iron Co., Lancaster, Pa.
WHITMAN & BARNES MFG. CO., Chicago, Ill. (See adv. index & branch offices, end of book)
WILLIAMS, J. H. & CO., 150 Hamilton av, Brooklyn, N. Y. (See adv. index, end of book)

*Blast Furnace Supplies

HARTMAN CO., 1231 N Front, Philadelphia, Pa. (See adv. index, end of book)

Blast Furnace & Steel Works Construction

American Furnace & Machine Co. (Iron & Steel Works Only), Publication bldg, Pittsburgh, Pa.
AMSLER ENGINEERING CO., Diamond Bank bldg., Pittsburgh, Pa. (See adv. index & branch offices, end of book)
Beutner, Victor, Westinghouse bldg, Pittsburgh, Pa.
Birmingham Boiler Works, Birmingham, Ala.
Colorado Iron Works Co., Denver, Colo.
Crooker, Ralph, Jr., Columbia Bank bldg, Pittsburgh, Pa.
Forster-Miller Engineering Co., Westinghouse bldg, Pittsburgh, Pa.
Ferguson, Hugh, Pittsburgh Life bldg, Pittsburgh, Pa.
Garrett-Cromwell Engineering Co., New England bldg, Cleveland, O.
Girard Boller & Mfg. Co., Girard, O.
Huber, S. V. & Co. (Engineers & Contractors), Ferguson bldg, Pittsburgh, Pa.
Kennedy, Julian, Bessemer bldg, Pittsburgh, Pa.
Kennedy, Walter (Automatic Top Filter System for Blast Furnaces), Bessemer bldg, Pittsburgh, Pa.
Ladd & Baker, Real Estate Trust bldg, Phila., Pa.

Lamond, David & Son, Ferguson bldg, Pittsburgh, Pa.
Lappan, Jas. Mfg. Co., 20th & Pike, Pittsburgh, Pa.
Mackintosh, Hemphill & Co., ft 12th, Pittsburgh, Pa.
McClure, G. W. Son & Co., Bessemer blk., Pittsburgh, Pa.
McKee, Arthur G., Rockefeller bldg, Cleveland, O.
Nisbet, D. F., Lewis blk, Pittsburgh, Pa.
McCullough-Dalzell Crucible Co., 36th & A. V. R'y., Pittsburgh, Pa.
McNeil, Jas. & Bro. Co., 29th & A. V. R'y., Pittsburgh, Pa.
Mohr, Jno. & Sons (Inc.), 32 Illinois, Chicago, Ill.
Mumroe, R. & Son, 23d & Smallman, Pittsburgh, Pa.

Pennsylvania Engineering Works (Engineers & Contractors), New Castle, Pa.
PETROLEUM IRON WORKS CO. (Blast Furnace), Washington, Pa., & Farmers' Bank bldg, Pittsburgh, Pa. (See adv. index, end of book)

Pollock, Wm. B. Co., Youngstown, O.
REEVES BROS. CO., Alliance, O. (See adv. index, end of book)
Riter-Conley Mfg. Co., Pittsburgh, Pa., & 111 B'way, New York
Roberts & Schaefer Co. (Consulting & Contracting Engineers), Birmingham, Ala.

SCAIFE, WM. B. & SONS CO., (Engineers & Contractors), 221 1st av, Pittsburgh, Pa. (See adv. index, end of book)
Smythe, S. R. Co., House bldg, Pittsburgh, Pa.
Swindell, Wm. & Bros., German National Bank bldg, Pittsburgh, Pa.
Weimer Machine Works Co., Lebanon, Pa.

WELLMAN-SEEVER-MORGAN CO., Cleveland, O., & Akron, O. (See adv. index, end of book)
WHITING FOUNDRY EQUIPMENT Co. (Engineers & Designers), Harvey, Ill. (See adv. index & branch offices, end of book)

Blasting Fuse, Caps, Etc.

Aetna Powder Co., 143 Dearborn, Chicago, Ill.
California Cap Co. (And Electrical Exploders, etc.), 418 California, San Francisco, Cal.
Ensign, Bickford & Co., Simsbury, Conn., & San Francisco, Cal.
Macbeth Fuze Works (Victor Electric Platinum), Pompton Lake, N. J.
Maswrite Explosive Co. (Explosives), Sharon, Pa.
Metallic Cap Mfg. Co., 271 B'way, New York.
New York Powder Works, 55 Liberty, New York
Rendrock Powder Co., 128 B'way, New York
San Francisco Fuse Mfg. Co., 507 California, San Francisco, Cal.
Standard Fuse Co., Winfield Junction, N. Y.
Star Electric Fuse Works ("Star" Exploders), Wilkes-Barre, Pa.

*Bleachery Eyes (Rubber)

BOSTON BELTING CO., 260 Devonshire, Boston, Mass. (See adv. index & branch offices, end of book)

Blind Adjusters

(See Window-Blind Adjusters.)

Blind Awning Fixtures

(See Awning Fixtures, Blind.)

Blind Tenons

Gleason, E. P. Mfg. Co. ("Holts"), 37 Murray, New York

Blinds (Inside Folding)

Currier, E. Bradley Co., 119 W 23d, N. Y.
Foster, Munger Co. (for the trade only), 20th & S Sangamon, Chicago
Hyde-Murphy Co., Ridgway, Pa.
Morgan Co., Factory & General Offices: Oshkosh, Wis.
Palne Lumber Co. (for the trade only), Oshkosh, Wis., & 1 Madison av, N. Y.
Palmer, Fuller & Co. (for the trade only), 2244 Lumber, Chicago
Roach & Musser Sash & Door Co. ("Victor"), Muscatine, Ia
Watson Mfg. Co. (Spring & Weighted), Jamestown, N. Y.
Willer Mfg. Co., 313 Cedar, Milwaukee, Wis.

Blinds (Inside Sliding)

Bossert, Louis & Son, Grand & Newton Creek, Brooklyn, N. Y.
Burlington Venetian Blind Co., Burlington, Vt.
Currier, E. Bradley Co., 119 W 23d, N. Y.
Curtis Bros. & Co. (Wholesale Mfrs.), Clinton, Ia.
Curtis & Bartlett Co. (wholesale mfrs.), Lincoln, Neb.
Curtis & Yale Co. (wholesale mfrs.), Wausau, Wis.
Dodge, H. B. & Co. (Mfrs. Ag'ts), 108 Lasalle, Chicago, Ill.
Hartman Sliding Blind Co., Bowling Green, Ky.
Kane Sliding Blind Co., Kane, Pa.
Monroe Screen, Blind & Partition Co., Lima, O
New Jersey Blind Co. ("Hill's"), Paterson, N. J.
Phoenix Sliding Blind Co., Phoenix, N. Y.
Roach & Musser Sash & Door Co. ("Victor," Wholesale Mfrs.), Muscatine, Ia.
Union Blind & Ladder Co. (Hill's), 328 Howard, San Francisco, Cal.
Watson Mfg. Co. (Spring & Weighted), Jamestown, N. Y.
Willer Mfg. Co., 313 Cedar, Milwaukee, Wis.
Wooster Sliding Blind Co., Wooster, O.

Blinds (Venetian)

Adams-Monroe Mfg. Co. (Victoria), Lynchburg, Va.
Baltimore Blind Co. (Outside), 2210 E North av, Baltimore, Md.
Bostwick-Goodell Co., Norwalk, O.
Burlington Venetian Blind Co., Burlington, Vt.
Curtis & Bartlett Co. (Wholesale Mfrs.), Lincoln, Neb.
Curtis & Yale Co. (Wholesale Mfrs.), Wausau & Milwaukee, Wis., & Minneapolis, Minn.
Dodge, H. B. & Co. (Mfrs. Ag'ts), 108 Lasalle, Chicago, Ill.
Foster, Munger & Co. ("The Pease," wholesale only), 20th & Sangamon, Chicago, Ill.
Hartman Sliding Blind Co., Bowling Green, Ky.
Monroe Screen Blind & Partition Co., Lima, O.
New Jersey Blind Co. ("Hill's"), Paterson, N. J.
Pease Co., Fredonia av & C. L. & N. R. R., Cincinnati, O.
Smith, John A., 456 S B'way, Los Angeles, Cal.
Union Blind & Ladder Co., 328 Howard, San Francisco, Cal.
Watson Mfg. Co., Jamestown, N. Y.
Willer Mfg. Co., 313 Cedar, Milwaukee, Wis.
WILSON, JAMES G. MFG. CO., Chief Office, 3 W 29th, New York. Mills & Factory: Norfolk, Va. (See adv. index, end of book)

Blocking (Adjustable)

Le Count, Wm. G., S. Norwalk, Conn.

*Blocks (Anchor Tackle)

McMILLAN'S, W. H. SONS, 153 South, New York. (See adv. on following page)

*Blocks (Boat)

McMILLAN'S, W. H. SONS, 153 South, New York. (See adv. on following page)

Blocks (Broom or Brush)

Holgate Bros. Co. (Whitewash Blocks, etc.), Kane, Pa.
Mahle Boring Machine Co., Corry, Pa.
Mahle, C. A. & Son (Bored & Shaped for Horse, Scrub, Stove, Shoe Brushes, etc., & for Street & Stable Push Brooms, also for Steel Wire Brushes, Brooms, etc.) Corry, Pa.
Parkersburg Mill Co., Parkersburg, W. Va.
Peake, Henry (for Street Sweeping Brooms, etc.), Pea Brook, N. Y.
Petoskey Block & Mfg. Co. (Brush Blocks only, all kinds, Turned & Shaped), Petoskey, Mich.
Piqua Handle & Mfg. Co., Piqua, O.

Blocks (Butchers')

(See also Butchers' Machinery & Supplies)

Boos, John & Co. (Inc.), Effingham, Ill.
Bossert, Louis & Son, Grand & Newtown Creek, Brooklyn, N. Y.
Dumrauf & Wicke, 406 E 102d, New York
Hill, C. V. & Co., Trenton, N. J.
Racine Refrigerator & Fixture Co., Racine, Wis.
Wilson Co. (Octagon), Appleton, Wis.

*Blocks (Cargo Hoisting, Iron & Wood)

McMILLAN'S, W. H. SONS, 153 South,
New York. (See adv. below)

Blocks (Chain Hoisting)

Boston & Lockport Block Co., 160 Commercial,
Boston, Mass.

CARPENTER, GEO. B. & CO., 202
S Water, Chicago, Ill. (See adv. index, end
of book)

CHISHOLM & MOORE MFG. CO.,
Lake & Kirtland, Cleveland, O. (See adv.
index, end of book)

Contractors' Plant Mfg. Co., 129 Erie, Buffalo,
N. Y.

Dederick's P. K. Sons, Albany, N. Y.

Dicke Tool Co., Downers Grove, Ill.

DOBBIE FOUNDRY & MACHINE CO.,
Main Office & Works, Niagara Falls, N. Y.
(See adv. index & branch offices, end of book)

Eckstein, Chas. G., (The King), 249 Centre,
N. Y.

Harrington, Edwin Son & Co., 17th & Callow-
hill, Philadelphia, Pa.

Irving Mfg. & Tool Co. (J. F. McCoy Co.,
Prop.), 159 Chambers, New York

Jackson Mfg. Co., Harrisburg, Pa.

McMILLAN'S, W. H. SONS, 153 South,
New York. (See adv. below)

Reading Chain Block Works ("Reading" Multi-
ple Gear), Reading, Pa.

Stuebner, G. L., Long Island City, N. Y.

Yale & Towne Mfg. Co., 9 Murray, New York;
Works: Stamford, Conn.

Blocks (Deck & Snatch)

(See Blocks, Tackle.)

*Blocks (Derrick Foot)

DOBBIE FOUNDRY & MACHINE CO.,
Main Office & Works, Niagara Falls, N. Y.
(See adv. index & branch offices, end of book)

Blocks (Differential Chain)

CHISHOLM & MOORE MFG. CO.
(Direct Differential), Lake & Kirtland,
Cleveland, O. (See adv. index, end of book)

COHOES IRON FOUNDRY & MACHINE
Co., Cohoes, N. Y. (See adv. index, end of
book)

DOBBIE FOUNDRY & MACHINE CO.,
Main Office & Works, Niagara Falls, N. Y.
(See adv. index & branch offices, end of book)

*Blocks (Davit)

McMILLAN'S, W. H. SONS, 153 South,
New York. (See adv. below)

*Blocks (Derrick)

McMILLAN'S, W. H. SONS, 153 South,
New York. (See adv. below)

*Blocks (Dock)

McMILLAN'S, W. H. SONS, 153 South,
New York. (See adv. below)

DOBBIE FOUNDRY & MACHINE CO.,
Main Office & Works, Niagara Falls, N. Y.
(See adv. index & branch offices, end of book)

*Blocks (Fountain, Iron & Brass)

McMILLAN'S, W. H. SONS, 153 South,
New York. (See adv. below)

Blocks (Fuse)

D & W FUSE CO., 47 Pine, Provi-
dence, R. I. (See adv. index, end of book)

Fort Wayne Electric Works, Fort Wayne, Ind.

GENERAL ELECTRIC CO., Schene-
ctady, N. Y. (See adv. index & branch of-
fices, end of book)

Peru Electric Mfg. Co., Peru, Ind.

PHOENIX ELECTRIC & MFG. CO.,
Mansfield, O. (See adv. index, end of book)

Triumph Electric Mfg. Co. (New Code Porce-
lain), Plainville, Conn.
WESTINGHOUSE ELECTRIC & MFG.
Co., Pittsburg, Pa. (See adv. index &
branch offices, end of book)

Blocks (Hollow Building)

(See also Blocks, Hollow Concrete Building)

American Brick & Tile Co., Mason City, Ia.

American Clay Products Co., Chamber of Com-
merce bldg, Chicago, Ill.

American Sewer Pipe Co., Bessemer bldg.,
Pittsburg, Pa.

Big Four Clay Co. (Blue Granite, Rock Face),
Malvern, O.

Blakeslee Concrete Block & Machine Co. (Con-
crete), Columbus, O.

Boone Brick Tile & Paving Co., Boone, Ia.

Canton Hollow Block Co., Canton, O.

Canton Tile Hollow Brick Co. (Plain & Rock-
Faced), New Bethlehem, Pa.

Concrete Stone Co., Canton, O.

Diefenbacher, Philip, Masillon, O.

Downs, Canton, O.

Evansville Pressed Brick Co., Evansville, Ind.

Fix, S. S., Canton, O.

Greer-Beatty Clay Co., Magnolia, O.

Indiana Paving Brick & Block Co. (W. W.
Winslow), Indianapolis, Ind., & Brazil, Ind.

Iowa Brick Mfg. Co., Des Moines, Ia.

Louisville Brick & Tile Co., Louisville, O.

McNutt, Lewis, Brazil, Ind.

Markley, Geo. J., Mineral City, O.

Mason City Brick & Tile Co., Mason City, Ia.

Mason City Clay Works, Mason City, Ia.

Myers Clay Mfg. Co., Toronto, Ont.

NATIONAL FIRE-PROOFING CO.,
Fulton bldg, Pittsburg, Pa. (See adv. in-
dex & branch offices, end of book)

Palmer, H. S., 1450 Binney, Washington, D. C.

Penna. Fireproofing Co., St. Mary's, Pa.

Person & Co. (Mfrs'. Agents), 160 5th av, New
York

Phillips, W. H. Cement Stone Co., Columbus, O.

Pittsburg Sewer Pipe & Conduit Co., Pitts-
burg, Kans.

Pittsburg-Buffalo Co., Frick bldg, Pittsburg, Pa.

Richmond Clay Products Co., Reading, Pa.

Segner, E. C., Masillon, O.

Shoof, A. H., Canton, O.

Sioux City Brick & Tile Works, & Riverside
Brick Works, Sioux City, Ia.

Straight & Campbell Brick & Tile Co., Ft.
Dodge, Ia.

THOMAS, E. H. (Mfrs. Agent), 1125
B'way, N. Y.

United States Fire Proofing Corporation, 326
4th av, Pittsburg, Pa.

Wabash Clay Co., Veedersburg, Ind.

Whiteacre Fire Proofing Co., Waynesburg, O.

Blocks (Hollow Concrete Build-
ing)

Blakeslee Concrete Block & Machine Co., Colum-
bus, O.

Building Block Co., Minneapolis, Minn.

Burch, H. O. Mfg. Co., New London, Conn.

Cement Ventilating Stone Co., Columbus, O.

Cleveland Concrete Building Block Co. Cleve-
land, O.

Durolithic Co., Builders' Ex bldg, Buffalo, N. Y.

Eilbacher, Chas., 32 4th, Elizabeth, N. J.

Evansville Hollow Concrete Building Block Co.
(Red, Brown & White Limestone Finish),
Evansville, Ind.

Frank, Frederick, Lancaster, Pa.

Hollidaysburg Mfg. Co., Hollidaysburg, Pa.

Keller, Jacob, North Judson, Ind.

METROPOLITAN STONE CO., 1 Madi-
son, New York

Morris Hollow Concrete & Construction Co.,
Granite City, Ill.

National Building Block Co., Milwaukee, Wis.

National Cement Stone Co., York, Pa.

Rothermund, Henry, Martins Ferry, O.

Southard, J. E. & Co., Michigan City, Mich.

Standard Stone Co. of America, 140 Nassau,
New York

Stevens Cast Stone Co. ("Litholite"), Harvey,
Ill.

Waterloo Artificial Stone Co., Waterloo, Iowa.

Wilmington Stone & Construction Co., Wil-
mington, N. C.

Wolf, Augustus & Co., Chambersburg, Pa.

*Blocks (Hook)

MORGAN ENGINEERING CO. (160
ton, etc.), Alliance, O. (See adv. index, end
of book)

*Blocks (Iron)

McMILLAN'S, W. H. SONS, 153 South,
New York. (See adv. below)

*Blocks (Iron, Coal Hoisting)

McMILLAN'S, W. H. SONS, 153 South,
New York. (See adv. below)

*Blocks (Iron, Gin)

McMILLAN'S, W. H. SONS, 153 South,
New York. (See adv. below)

*Blocks (Malleable Iron)

McMILLAN'S, W. H. SONS, 153 South,
New York. (See adv. below)

*Blocks (Painters')

McMILLAN'S, W. H. SONS, 153 South,
New York. (See adv. below)

Blocks (Pillow)

(See Power Transmitting Machinery)

Blocks (Pulley, for Electric Light Poles)

(See Pulley Blocks)

*Blocks (Quarry)

McMILLAN'S, W. H. SONS, 153 South,
New York. (See adv. below)

Blocks (Rail)

Mack Mfg. Co. ("Arthur," Hump), Land Title
bldg, Phila., Pa.

*Blocks ("Shawmut" Outlet)

CHASE-SHAWMUT CO., Newbury-
port, Mass. (See adv. index, end of book)

*Blocks (Sheave, for Derricks)

AMERICAN WELL WORKS, Aurora,
Ill. (See adv. index & branch offices, end
of book)

DOBBIE FOUNDRY & MACHINE CO.,
Main Office & Works, Niagara Falls, N. Y.
(See adv. index & branch offices, end of book)



W. H. McMILLAN'S SONS

MANUFACTURERS OF

IRON and
WOOD

TACKLE BLOCKS

FOR YACHT, VESSEL AND STRUCTURAL WORK

DEALERS IN

Lignumvitae Wood in Rough or Worked Into Shape

BOWLING ALLEY SUPPLIES

SALESROOM

153 SOUTH ST., N. Y.

FACTORY

32 to 40 PENN ST., BROOKLYN

***Blocks (Snatch, for Wire Rope)**

McMILLAN'S, W. H. SONS, 153 South,
New York. (See adv. on preceding page)

***Blocks (Snatch, Iron or Wood)**

McMILLAN'S, W. H. SONS, 153 South,
New York. (See adv. on preceding page)

Blocks (Tackle)

Boston & Lockport Block Co., 160 Commercial,
Boston, Mass.

CARPENTER, GEO. B. & CO., 202
S Water, Chicago, Ill. (See adv. index,
end of book)

Cleveland Block Co., 94 River, Cleveland, O.
Coleman, Walter & Sons, Providence, R. I.
Cottingham, John C. & Sons Co., 118 N Dela-
ware av, Phila., Pa.

DOBBIE FOUNDRY & MACHINE CO.,
Main Office & Works, Niagara Falls, N. Y.
(See adv. index & branch offices, end of book)

Dubuar, J. A. Mfg. Co. (Wood), Northville, Mich.
Edwards, H. D. & Co., Detroit, Mich.

Eureka Tackle Block Mfg. Co. (All Kinds), 442
E Front, Cincinnati, O.

Fulton Iron Works (Sure Grip Steel), Detroit
Hartz, Henry V. & Co. (Steel), Cleveland, O.

Irving Mfg. & Tool Co. (J. F. McCoy Co.,
Prop.), 159 Chambers, New York

Jackson, J. S. & Son ("Roller Bearing"), Bath,
Me.

Lane Bros. Co. (Automatic Lock), Poughkeepsie,
N. Y.

McMILLAN'S, W. H. SONS, 153 South,
New York. (See adv. on preceding page)

Merriman Bros., 696 E 1st, E. B., Boston, Mass.

Milwaukee Hay Tool Co. (Principally for Hay
Tools), Layton Park, Milwaukee, Wis.

Parker Hoist & Machine Co. (Manilla Rope),
971 N Francisco av, Chicago, Ill.

Patterson, W. W. Co., 54 Water, Pittsburg, Pa.

Pittsburg Block & Mfg. Co. (Wood or Steel
Shell), 816 South av, Allegheny, Pa.

Rousseau, F. X. Mfg. Co., 564 Porter, Detroit,
Mich.

Stowell Mfg. & Fdy Co., South Milwaukee, Wis.

Swett, A. L. Iron Works, Medina, N. Y.

Union Elevator & Machine Co., 144 Ontario,
Chicago, Ill.

Union Hardware Co., Torrington, Conn.

Walton Self Locking Block Co. (Self Locking),
404 Atlantic av, Boston, Mass.

Western Block Co. (Wood, Wrought Iron &
Steel), Lockport, N. Y.

Wilcox, Crittenden & Co., Middletown, Conn.

Yale & Towne Mfg. Co., 9 Murray, New York;
Works: Stamford, Conn.

Blocks (Wire Rope)

AMERICAN HOIST & DERRICK CO.,
St. Paul, Minn. (See adv. index & branch
offices, end of book)

Boston & Lockport Block Co., 160 Commercial,
Boston, Mass.

CARLIN'S, THOS. SONS CO., 1300
River av, Allegheny, Pa. (See adv. index,
end of book)

DOBBIE FOUNDRY & MACHINE CO.,
Main Office & Works, Niagara Falls, N. Y.
(See adv. index & branch offices, end of book)

Hazard Mfg. Co., Wilkes-Barre, Pa.

Irving Mfg. & Tool Co. (J. F. McCoy Co.,
Prop.), 159 Chambers, New York

Jackson, S. J. & Son ("Roller Bearing"), Bath,
Me.

Laughlin, Thos., Co., Portland, Me.

Macomber-Whyte-Moon Co., 116 Centre, N. Y.

MACOMBER & WHYTE ROPE CO.,
21 S Canal, Chicago, Ill. (See adv. index,
& branch offices, end of book)

McMILLAN'S, W. H. SONS (Steel), 153
New York. (See adv. on preceding page)

Merriman Bros., 696 E 1st, E. B., Boston, Mass.

Parker Holst & Machine Co., 971 N Francisco
av, Chicago, Ill.

Patterson, W. W. Co., 54 Water, Pittsburg, Pa.

Pittsburg Block & Mfg. Co., 816 South av, Al-
legheny, Pa.

TERRY & TENCH Co. (Inc.), Lex-
av & 131st, New York. (See adv. index,
end of book)

Western Block Co., Lockport, N. Y.

Blocks (Wrecking)

Laughlin, Thos. Co. (With Lashing Shackles),
Portland, Me.

McMILLAN'S, W. H. SONS, 153 South,
New York. (See adv. on preceding page)

Blocks (Yacht)

Coleman, Walter & Sons, Providence, R. I.
Laughlin, Thos. Co., Portland, Me.
Wilcox, Crittenden & Co. (Brass), Middletown,
Conn.

***Blow Cases**

GRAVER, WM. TANK WORKS, East
Chicago, Ind. (See adv. index, end of book)

**Blow Pipes & Brazing Appar-
atus**

AMERICAN GAS FURNACE CO. (Gas),
24 John, New York, & Elizabeth, N. J.
(See adv. index, end of book)

Baylis Company, 140 Washington, New York

BERNZ, OTTO, S 13th & S Orange av,
Newark, N. J. (See adv. index, end of book)

Best Light Co., Canton, O.

Boeckel, Wm. & Co., 518 Vine, Phila., Pa.

Braunsdorf-Mueller Co., Elizabeth, N. J.

Hawkrige, S., Hoboken, N. J.

Hull, J. S. Mfg. Co., 125 E Falls av, Baltimore,
Md.

Klechlner Mfg. Co., Cincinnati, O.

National Cement & Rubber Mfg. Co., Toledo, O.

Shreveport Blow Pipe & Sheet Iron Works,
Shreveport, La.

Stortz, Jno. & Son, 210 Vine, Phila., Pa.

Turner Brass Works, 66 Michigan, Chicago, Ill.

Blower Mfrs.

(See also sub-classifications.)

Allington & Curtis Mfg. Co., Saginaw, Mich.

American Blower Co., 1400 Russell, Detroit,
Mich.

ANDREWS & JOHNSON CO., 256
Washington boul, Chicago, Ill. (See adv in-
dex, end of book)

Banister, A. W., 35 Wareham, Boston, Mass.

BARNEY VENTILATING FAN WKS
(A. B. Franklin, Prop.), 24 Binford, Boston,
Mass. (See adv. at Fans)

Bicalky Fan Co., Buffalo, N. Y.

Buffalo Forge Co., Buffalo, N. Y.

Champion Blower & Forge Co., Lancaster, Pa.

Chase Turbine Mfg. Co. (Fan), Orange, Mass.

Connorsville Blower Co. (Rotary), Connorsville,
Ind.

Cornell, J. B. & J. M. Co. ("The Poole"), 26th
& 11th av, New York

Crowell, Gilmer ("Crowell" Positive Pressure),
292 Graham av, Brooklyn, N. Y.

De Laval Steam Turbine Co., Trenton, N. J.

Empire State Engineering Co., 116th & E. R.,
New York

Exeter Machine Works, Exeter, N. H., & 32
Oliver, Boston, Mass.

Fuller Co., 1565 Russell, Detroit, Mich.

Garden City Fan Co., Fisher bldg, Chicago, Ill.

GREEN FUEL ECONOMIZER CO.,
General Office & Works, Matteawan, N. Y.,
& 1218 West Street bldg, New York. (See
adv. index & branch offices, end of book)

Hartford Blower Co., Hartford, Conn.

Howard & Morse ("Blackman"), 45 Fulton,
New York

Humphrey Machine Co. (Fan), Keene, N. H.

Link, E. M. Machinery Co., Erie, Pa.

Massachusetts Fan Co., Watertown, Mass.

Meadon, T. J. Son, 51 Greenpoint av, Brook-
lyn, N. Y.

NATIONAL BLOWER WORKS, 17th
& St. Paul av, Milwaukee, Wis. (See adv
index, end of book)

New England Ventilating & Heating Co., 926
Manton av, Providence, R. I.

New York Blower Co., 25th pl & Stewart av,
Chicago, Ill.; Factory, Bucyrus, O.

Ohio Blower Co., 43 Michigan, Cleveland, O.

Piqua Foundry & Machine Co. ("Piqua"),
Piqua, O.

Pittsburg Stoker & Mfg. Co., 2525 Liberty av,
Pittsburg, Pa.

Potts, David H. (Fan), Lancaster, Pa.

Roots, P. H. & F. M. Co. (Rotary), Connors-
ville, Ind.

St. Louis Blower & Heater Co., 1628 N 9th, St.
Louis, Mo.

Sirocco Engineering Co. ("Sirocco"), West St.
bldg, New York

Specialty Mfg. Co. ("Indiana"), Indianapolis,
Ind.

Sterling Blower & Pipe Mfg. Co., Hartford,
Sturtevant, B. F. Co., Hyde Park, Mass. Conn.

Wilbraham-Green Blower Co. ("Green" Ro-
tary Pressure), 2526 Frankford av, Phila.,
Pa.

Wilson Positive Blower Co. ("Wilson" Duplex
Positive), 287 6th, Brooklyn, N. Y.

Wing, L. J. Mfg. Co., 90 West, New York

Blowers (Acid)

BARNEY VENTILATING FAN WKS
(A. B. Franklin, Prop.), 24 Binford, Boston,
Mass. (See adv. at Fans)
Guld & Garrison, Kent av & S 10th, Brooklyn,
Titusville Iron Co., Titusville, Pa. N. Y.

Blowers (Boiler Flue)

(See also Boiler, Flue & Tube Cleaners)

Bushnell, Jno. S. Co. ("Grimm's" Injector for
Vertical Boilers), 123 Liberty, New York

Michigan Lubricator Co. ("Correct" Steam), De-
troit, Mich.

Perfection Grate Co. ("Perfection"), Spring-
field, Mass.

Power Specialty Co. ("Diamond" Steam), De-
Sherwood Mfg. Co., Buffalo, N. Y. troit, Mich.

Sims Co., Erie, Pa.

Stewart Heater Co., 396 Norfolk av, Buffalo,
N. Y.

Thompson, Richard & Co., ("Thompson's"
Injector Blower Boiler Tube Cleaner), 126
Liberty, N. Y.

Union Steam Specialty Co., ("Grim" Injector
& Soot-Sucker), Scranton, Pa.

Blowers (Cycloidal)

Power & Mining Machinery Co. (Horizontal),
52 William, New York; Works, Cudahy, Wis.

Blowers (Cyclone)

Stauffer, Geo. E. (Kitson's for Burning Culum &
Slack), E Stroudsburg, Pa.

Blowers (Electric)

Emerson Electric Mfg. Co., 2030 Wash'n av,
St. Louis, Mo., & 136 Liberty, N. Y.

Garden City Fan Co., Fisher bldg, Chicago, Ill.

GENERAL ELECTRIC CO., SCHE-
nectady, N. Y., & 44 Broad, New York.
(See adv. index & branch offices, end of book)

GREEN FUEL ECONOMIZER CO.,
General Office & Works, Matteawan, N. Y.,
& 1218 West Street bldg, New York. (See
adv. index & branch offices, end of book)

SPRAGUE ELECTRIC CO., 527 W
34th, New York. (See adv. index & branch
offices, end of book)

Sturtevant, B. F. Co., Hyde Park, Mass.

Blowers (Forge)

American Blower Co., 1400 Russell, Detroit,
Buffalo Forge Co., Buffalo, N. Y. Mich.

Champion Blower & Forge Co., Lancaster, Pa.

Cleveland Steam Gauge Co. ("Watson"), 1619
Merwin, N W, Cleveland, O.

Garden City Fan Co., Fisher bldg, Chicago, Ill.

GREEN FUEL ECONOMIZER CO.,
General Office & Works, Matteawan, N. Y.,
& 1218 West Street bldg, New York. (See
adv. index & branch offices, end of book)

NATIONAL BLOWER WORKS, 17th
& St. Paul av, Milwaukee, Wis. (See adv.
index, end of book)

Roots, P. H. & F. M. Co., Connorsville, Ind., &
120 Liberty, N. Y.

Sturtevant, B. F. Co., Hyde Park, Mass.

Blowers (Furnace)

Beach-Russ Co., Long Island City, N. Y.

Schutte & Koerting Co., 1251 N 12th, Phila-
delphia, Pa.

Scranton Steam Pump Co. ("Union"), Scrant-
ton, Pa.

Blowers (Gas)

(See Exhausters, Gas.)

Blowers (Hand)

(See also Forges, Portable.)

Buffalo Forge Co., Buffalo, N. Y., & 39 Cort-
landt, N. Y.

Champlon Blower & Forge Co., Lancaster, Pa.

Comstock, Geo. S., ("Tornado"), Mechanics-
Empire Forge Co., Troy, N. Y. burg, Pa.

Foss Mfg. Co. (Blacksmiths'), Springfield, O.

NATIONAL BLOWER WORKS, 17th
& St. Paul av, Milwaukee, Wis. (See adv.
index, end of book)

Roots Forge Co., Buffalo, N. Y.

Roots, P. H. & F. M. Co., Connorsville, Ind.

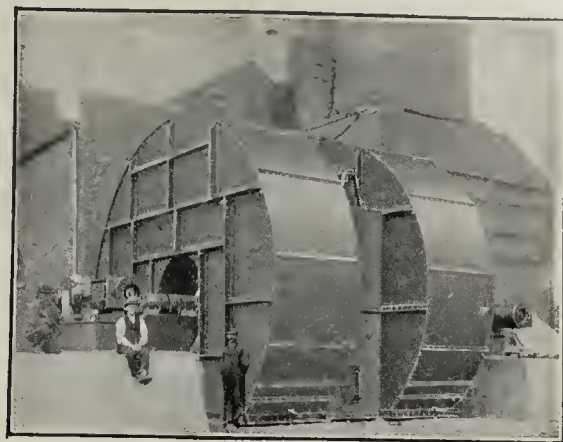
Star Forge Co., 150 Terrace, Buffalo, N. Y.

Sturtevant, B. F. Co., Hyde Park, Mass.

BEFORE BUYING FANS, BLOWERS and EXHAUSTERS

Get Our Plans and Prices.

Ask for our New Fan Catalog which describes all types. It contains, also, the tables and engineering data used in designing, heating and ventilating, mechanical draft, humidifying, drying and dust collector plants, together with illustrations of recent notable installations.



GREEN MECHANICAL DRAFT FANS.



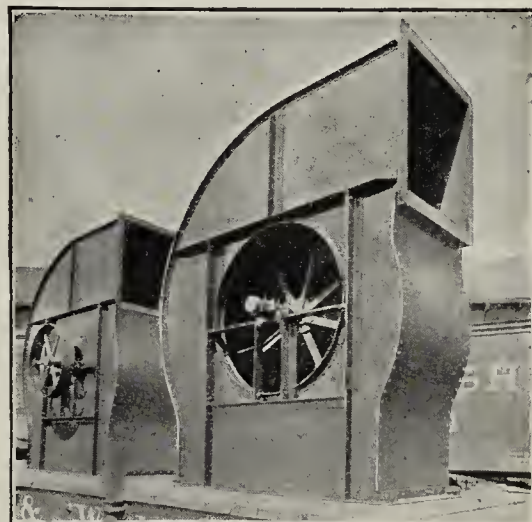
GREEN STEAM HEATING COIL.

Our **Mechanical Draft Plants** will interest you if you pay coal bills. We have studied boiler furnace economy for 60 years and there are few conditions, indeed, with which we have not had exhaustive experience. We recently put in several exceptionally large fans for burning low grade fuels in Western plants and have succeeded in reducing the cost of steam and in abating the smoke nuisance. We would like to refer you to these plants and also to study any plant which you are proposing to put in.

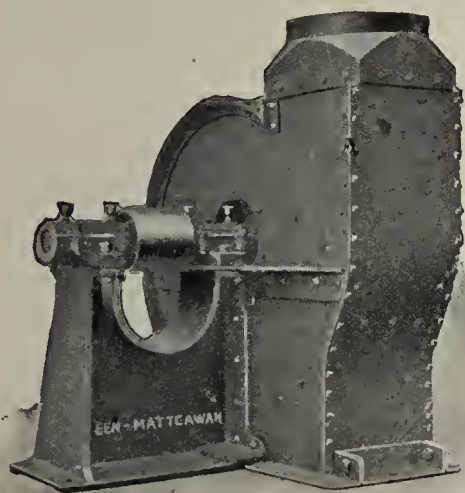
Our **Heating and Ventilating Plants**, containing Green Fans and Green Steam Heating Coils, are to-day making comfortable several of the largest public buildings and manufacturing works lately finished. In such plants our special designs have often saved considerable space or money.

Our **Planing Mill and Wool Exhausters** are selling rapidly because of their extra heavy and well-balanced construction.

While every fan we turn out is generally a little better than anybody else's (as for details) and although we give individual engineering attention to each case, our prices are no higher than others.



GREEN FAN. TOP HORIZONTAL DISCHARGE TYPE.



GREEN PLANING MILL EXHAUSTER

WRITE FOR CATALOG "HC"

The Green Fuel Economizer Co.

Matteawan, New York

(Sole Builders of the Green Fuel Economizer
in this Country.)



BUCKEYE ELECTRIC BLUE PRINTING MACHINES

" HIGHEST IN EFFICIENCY
LOWEST IN PRICE "

Built in 3 sizes taking prints up to 42" wide by 6' long.

Requires but one lamp which is of the latest photo-engraving and blue printing type.

Is equipped with ball-bearing rollers which require no buttoning, clamping or fastening of any kind to the frame.

Contact is secured by means of weights instead of springs which by constant use lose their tensile strength.

The drop of the lamp is actuated by an escapement movement which has proved preferable to the water and oil cylinder as the fluid invariably works out and ruins the tracings.

SEND FOR ILLUSTRATED CATALOG

BUCKEYE ENGINE CO., - SALEM, OHIO

Our
**BLUE PRINT
DEPT.**

is the Largest
in the U. S.

Electric and
Sun Facilities.

**LOWEST
PRICES.**

B. K. ELLIOTT CO.

IMPORTERS AND MANUFACTURERS OF

**DRAWING MATERIALS,
SURVEYING INSTRUMENTS
AND
BLUE PRINT MACHINES**

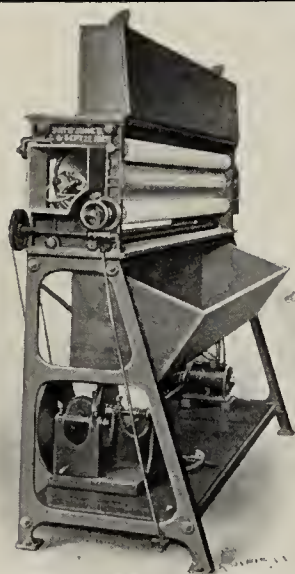
108 Sixth St., PITTSBURGH, PA.

We
manufacture
the best

**RAPID
BLUE PRINT
PAPERS**

on the market.

Ask for Prices
and Samples.



BLUE PRINTS A MILE LONG

EVERETT-McADAM CONTINUOUS ELECTRIC BLUE PRINT MACHINE

USING THIS
MACHINE
ANYONE
ANYWHERE
CAN PRINT
ANYTHING
ANY TIME
ANY DAY
ANY NIGHT
ANY LENGTH
ANY TONE
AND WITHOUT
ANY TROUBLE
ANY DELAY OR
ANY EXPENSE
TO SPEAK OF
AND THEY CAN
DO IT IN A
HURRY

REVOLUTE MACHINE CO.,

523 WEST 45th STREET

NEW YORK CITY

Blowers (Jet)

Eynon-Evans Mfg. Co. (Steam Jet for Gas Producers, etc.), 1519 Clearfield, Phila., Pa.
 McClave-Brooks Co. ("McClave's" Argand Steam Blower), Scranton, Pa.
 New York Grate Bar Co. ("Coe's"), 123 Liberty, New York
 Schutte & Koerting Co. (Steam Jet Blowers & Exhausters), 1251 N 12th, Phila., Pa.

Blowers (Organ)

Backus Water Motor Co., Newark, N. J.
 Beach-Russ Co., Long Island City, N. Y.
ORGAN POWER CO. ("Orgoblo" or "Spencer" Silent), Hartford, Conn. (See adv. index, end of book)

***Blowers (Positive Pressure)**

AMERICAN GAS FURNACE CO., 24
 John, New York, & Elizabeth, N. J. (See adv. index, end of book)
 Beach-Russ Co., Long Island City, N. Y.
 Piqua Foundry & Machine Co. ("Piqua" Rotary), Piqua, O.
 Timmis & Clissold, Bound Brook, N. J.
 Wilson Positive Blower Co. ("Wilson Duplex"), 287 6th, Brooklyn, N. Y.

Blowers (Pressure)

American Blower Co., 1400 Russell, Detroit, Mich.
AMERICAN GAS FURNACE CO., 24
 John, New York, & Elizabeth, N. J. (See adv. index, end of book)
ANDREWS & JOHNSON CO., 256
 Washington houl, Chicago. (See adv. index, end of book)
 Buffalo Forge Co. (Steel), Buffalo, N. Y.
 Champion Blower & Forge Co. (Steel), Lancaster, Pa.
 Connersville Blower Co. (Rotary), Connersville, Ind.
 Cornell, J. B. & J. M. Co. ("The Poole"), 26th & 11th av, N. Y.
 Crowell, Gilmer ("Crowell" Positive), 292 Graham av, Brooklyn, N. Y.
 Exeter Machine Works, Exeter, N. H., & Boston, Mass.
 Garden City Fan Co., Fisher bldg, Chicago, Ill.
GREEN FUEL ECONOMIZER CO.,
 General Office & Works, Matteawan, N. Y., & 1218 West Street hldg, New York. (See adv. index & branch offices, end of book)
 Hartford Blower Co., Hartford, Conn.
 Leiman Bros. (Posetive High Pressure), 139 Centre, New York
NATIONAL BLOWER WORKS, 17th
 & St. Paul av, Milwaukee, Wis. (See adv. index, end of book)
 New York Blower Co., 25th pl & Stewart av, Chicago, Ill.; Works, Bucyrus, O.
 Roots, P. H. & F. M. Co. (Rotary), Connersville, Ind.
 Sturtevant, B. F. Co. ("Steel"), Hyde Park, Mass.
 Wilbraham-Green Blower Co. (The "Green" Rotary Pressure), 2526 Frankford av., Philadelphia, Pa.

Blowers (Rotary Pressure)

Beach-Russ Co., Long Island City, N. Y.
 Connersville Blower Co., Connersville, Ind.
 Garden City Fan Co., Fisher hldg, Chicago, Ill.

Roots, P. H. & F. M. Co., Connersville, Ind., & 120 Liberty, New York
 Sturtevant, B. F. Co., Hyde Park, Mass.
 Wilbraham-Green Blower Co. (The "Green"), 2526 Frankford av, Phila., Pa.

***Blowers & Exhausters (Electric)**

GREEN FUEL ECONOMIZER CO.,
 General Office & Works, Matteawan N. Y., & 1218 West Street hldg, New York. (See adv. index & branch offices, end of book)

Blue Print Cars and Frames

American Drafting Furniture Co., 9 Railroad, Rochester, N. Y.
 Fritz & Goedel Mfg. Co. (Frames), 95 Alabama, Grand Rapids, Mich.

Blue Print Filing Cabinets

American Drafting Furniture Co., 9 Railroad, Rochester, N. Y.
 Butler, A. G., 284 Pearl, N. Y.
 Cleveland Wire Spring Co., Cleveland, O.
 Fritz & Goedel Mfg. Co., 95 Alabama, Grand Rapids, Mich.

***Blue Print Intensifyer & Unifying Salts**

SOLTMANN, E. G.
 (Also Everything for the Architect, Engineer & Draughting Room), 125 E 42d, New York. (See adv. below)

***Blue Print Paper Mfrs.**

ELLIOTT, B. K. CO., 108 Sixth, Pittsburgh, Pa. (See insert opp. this page)

***Blue Print & Brown Print Papers**

(See also Black & Blue Prints & Papers)

SOLTMANN, E. G.
 (Also everything for the Architect, Engineer & Draughting Room), 125 E 42d, New York. (See adv. below)

Blue Printing Machines

American Drafting Furniture Co. (Electric), 9 Railroad, Rochester, N. Y.
BUCKEYE ENGINE CO. (Electric)
 "The Sun that Never Sets", Salem, O. (See adv. opp. this page)
DIETZGEN, EUGENE CO. (Automatic Electric), 181 Monroe, Chicago, Ill. (See adv. index & branch offices, end of book)
ELLIOTT, B. K. CO. ("Elliott" Electric), 108 6th, Pittsburgh, Pa. (See adv. index, end of book)
GENERAL ELECTRIC CO. (with Enclosed Arc Lamps), Schenectady, N. Y., & 44 Broad, New York. (See adv. index & branch offices, end of book)
 Keuffel & Esser Co. ("Federal"), 127 Fulton, New York
REVOLUTE MACHINE CO. ("Everett-McAdam" Continuous Electric), 523 W 45th, New York. (See adv. index, end of book)

Rondinella, L. F. ("Star" Sun & Electric), Stephen Girard bldg, Phila., Pa.
 Stough, H. B. ("Shaw's" Patent, Sole Licensee for U. S.), Dover, N. J.
 Wagenhorst, J. H. & Co. (Electric), Gazette bldg, Pittsburg, Pa.
 Williams, Brown & Earle (Automatic Electric), 918 Chestnut, Phila., Pa.

Blue Vitriol

(See Battery Chemicals.)

***Board Lifters (Steam)**

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

Boards (Friction)

American Straw Board Co., 84 Van Buren, Chicago, Ill.
 Hewitt, C. B. & Bros., 48 Beekman, New York
 Manhattan Straw Board Co., 143 Wooster, N. Y.

Boards (Hanger)

Adams-Bagnall Electric Co., Cleveland, O.
 Brady, T. H., New Britain, Conn.
 Chicago Edison Co., 139 Adams, Chicago, Ill.
 Cornwell, R. M. Co., 416 S Salina, Syracuse, N. Y.
 Cutter, Geo. Co., 125 Fulton, Chicago, Ill.
 Fort Wayne Electric Works, Fort Wayne, Ind.
 Jones, J. & Son, 64 Cortlandt, N. Y.
 Knowles, C. S., 9 Arch, Boston, Mass.
 Lundin Electric & Machine Co. ("Arc Lamp" with absolute cut-out), 10 Thacher, Boston, Mass.
 Western Electric Co., 259 S Clinton, Chicago, Ill., & 57 Bethune, New York
 Worcester Electric Mfg. Co., Worcester, Mass.

***Boards ("Hugite" Friction)**

SPAULDING, J. & SONS CO., North Rochester, N. H. (See adv. index, end of book)

Boards (Panel, Etc.)

(See Switchboards, Light & Power.)

Boards (Shoveling)

Bristol & Gale Co. ("Lakeside"), Chicago, Ill.
 Brocksmithe Wagon Co., Carrollton, Md.
 Butler Co., Butler, Ind.
 Des Moines Wagon Works ("Des Moines"), Des Moines, Ia.
 Farm Tool Mfg. Co. ("The Acme"), Carrollton, Mo.
 Hayes Pump & Planter Co. ("B. B."), Galena, Ill.
 Hunt, Helm, Ferris & Co. ("Star"), Harvard, N. Y.
 Nagley Mfg. Co. (The Sampson), Lyons, N. Y.
 Peoria Drill & Cedar Co. ("Valley City"), Peoria, Ill.
 Sturgis, W. B. & Son ("New Western"), Shelbyville, Ill.
 Swanson, T. Mfg. Co., Shenandoah, Ia.
 Tenney & Siskling (Inc.) ("Superior"), Decatur, Ill.

Boards (Sounding)

Architectural Acoustics Co. (Designers), Ellington, N. Y.
 Breckewoldt, J. & Co., Dolgeville, N. Y.
 Dodge-Pasey Co. (Piano), Los Angeles, Cal.
 Howell, J. J. Son (Church), 275 Oakland, Brooklyn, N. Y.
 Parker & Young Co., Lisbon, N. Y.



E. G. SOLTSMANN ESTABLISHED 1880 **DRAWING MATERIALS**
 125 E. 42ND ST. NEXT TO THE GRAND CENTRAL STATION NEW YORK N.Y.

BLUE PRINT and BROWN PRINT PAPERS.

PRICES FOR LARGE PRINTS UP TO 4 1/2 X 12 FEET IN ONE PIECE.

BLACK PRINTS ON PAPER 3c. SQUARE FOOT **BLACK OR BLUE PRINTS ON CLOTH 5c. SQUARE FOOT**

"SEPPIAN" Brown Print NEGATIVES made from TRACINGS. "SEPPIAN" POSITIVES.

TRACINGS RECEIVED BY EXPRESS IN THE MORNING, CAN BE EXPRESSED ON SAME DAY WITH LARGE QUANTITIES OF PRINTS, BOUND IN SETS, READY FOR THE CONTRACTORS.

Boards (Tar)

Knerr, Lewis (Paper), Cincinnati, O.

Boat & Launch Trimmings

Laughlin, Thos. Co., Portland, Me.
Simpson, Thos. J., 94 John, New York
Twentieth Century Brass & Iron Works, Minneapolis, Minn.

Boats (Knocked-Down)

Brooks Boat Mfg. Co., Saginaw, Mich.
Neumeister, Fred P., Rockford, Ill.
Niagara Motor Boat Co., North Tonawanda, N. Y.
Pioneer Boat & Pattern Co., Wharf 7, Bay City, Mich.
St. Louis Boat & Engine Co., 3608 S Main, St. Louis, Mo.
Supple, Joseph, Portland, Ore.

Boats (Life)

American Ship Building Co., 2017 Superior av., Cleveland, O.
Armstrong Cork Co., Pittsburg, Pa.
Burlec Dry Dock Co., Port Richmond, N. Y.
Drain, Thos. & Son, Wilmington, Del.
Higgins & Gifford Boat Mfg. Co., Gloucester, Mass.
Lane & De Groot Co., Long Island City, N. Y.
Murphy, Peter, Tompkinsville, N. Y.

Boats (Motor)

(See Motor Boat, Launch & Yacht Builders.)

*Boats (Steel)

(See also Motor Boat, Launch & Yacht Builders)
MULLINS, W. H. CO., Salem, O. (See adv. index, end of book)

Bodies (Automobile, Metal)

Cole & Woop, 48 W 67th, New York
Columbia Steel Co., Elyria, O.
Detroit Motor Car Supply Co., 1250 Jefferson av, Detroit, Mich.
Koen, James R., 1257 Niagara, Buffalo, N. Y.
Lawrence, L. & Co. (Aluminum), 292 Halsey, Newark, N. J.
Leitch, J. N. Co., Amesbury, Mass.
Michigan Steel Boat Co. (Steel), Detroit, Mich.
Quinby, J. M. & Co., 27 Division, Newark, N. J.
Reading Metal Body Co., Fleetwood, Pa.
Springfield Metal Body Co., 374 Birnie av (Brightwood), Springfield, Mass.
U. S. Aluminum Co. (Aluminum), New Kensington, Pa.
Wood, A. M. Co., 51 Beverly, Boston, Mass.

Bodies (Automobile, Wood)

Abresch, Chas. Co., 392 4th, Milwaukee, Wis.
American Veneer Co. (Laminated), Kenilworth, N. J.
Automobile Body Co., Lansing, Mich.
Biehl's Carriage Works, Reading, Pa.
Borbein Auto Co., 2108 N 9th, St. Louis, Mo.
Borchers Carriage Co., 18 S St. Clair, Dayton, Ohio
Briggs Carriage Co., Amesbury, Mass.
Buckeye Carriage Body Co., Bellefontaine, O.
Central Mfg. Co., Connersville, Ind.
Cincinnati Panel Co., c 8th & C. H. & D. R'y, Cincinnati, O.
Cole & Woop, 48 W 67th, New York
Currier-Cameron Co., Amesbury, Mass.
Dann Bros. & Co., New Haven, Conn.
Detroit Carriage Co., Milwaukee Junction, Detroit, Mich.
Detroit Motor Car Supply Co., 1250 Jefferson av, Detroit, Mich.
Frantz Body Mfg. Co., Akron, O.
Holcomb Co. (Inc.), New Haven, Conn.
Howarth & Rogers Co., Amesbury, Mass.
Jackson Body Co., Jackson, Mich.
Keystone Wagon Works Co., Reading, Pa.
Koen, James R., 1257 Niagara, Buffalo, N. Y.
Leitch, J. N. Co., Amesbury, Mass.
Limousine Carriage & Mfg. Co., 323 35th, Chicago, Ill.
Michigan Automobile Body Co., 1425 Gratiot av, Detroit, Mich.
Michigan Steel Boat Co., 1250 Jefferson av, Detroit, Mich.
Moore-Munger Co., 602 W 52d, New York
Neustadt, J. H. Co., 826 S 18th, St. Louis, Mo.

New Haven Carriage Co., New Haven, Conn.
Ohio Carriage Co., Bellefontaine, O.
Pontiac Body Co., Pontiac, Mich.
Quinby, J. M. & Co., 27 Division, Newark, N. J.
Riverside Body Co., 1314 Niagara, Buffalo, N. Y.
Schubert Bros. Gear Co., Oneida, N. Y.
Shepard, H. G. & Sons, New Haven, Conn.
Shields Carriage Co., Amesbury, Mass.
Shuler Carriage Works, Greenville, O.
Union City Body Co., Union City Ind.
Wilcox, M. E., Providence, R. I.
Wildman, Alfred J., Morrisville, Pa.
Willoughby Co., Utica, N. Y.
Wilson, C. R. Body Co., Milwaukee Junction, Detroit, Mich.
Wood, A. M. Co., 51 Beverly, Boston, Mass.
York Wagon Gear Co., Belvidere c P. R. R., York, Pa.

Boiler Arch Plates

Lamprey Co., Westfield, Mass.

Boiler Arches

Evens & Howard Fire Brick Co., 920 Market, St. Louis, Mo.
Garfield Fire Clay Co. (Fire Brick), Robinson, Pa.
McLeod & Henry Co. (Fire Brick, Steel Mixture), Troy, N. Y.
MAURER, HENRY & SON, 420 E 23d. New York, Penna bldg, Phila., Pa. Works: Maurer, N. J. (See adv. inside front cover)
Presbrey Stove Lining Co., Taunton, Mass.

Boiler Blow-Off Protector

Mather, Edmund, Harrisburg, Pa.

Boiler Brace Mfrs.

Central Iron & Steel Co., Harrisburg, Pa.
KEWANEE BOILER CO., Kewanee, Ill., & 169 E Lake, Chicago, Ill. (See adv. index, end of book)
Lukens Iron & Steel Co., Coatesville, Pa.
Ryerson, Jos. T. & Son ("McGregor"), 18 Milwaukee, Chicago, Ill.
Scully Steel & Iron Co. (The "McGregor"), 140 Fulton, Chicago, Ill.
Ulster Iron Works, Dover, N. J.

Boiler Cleaners

(See Cleaners, Boiler Flue & Tube)

Boiler Compounds

Acme Chemical Co., 433 N 3d, Phila., Pa.
Amazon Chemical Mfg. Co. ("Amazon" Vegetable), Manistee, Mich.
American Boiler Purger Co., 105 John, New York
American-German Boiler Compound Co., Times bldg, Chicago, Ill.
American Oil Works ("Brown"), Rochester, N. Y.
American Supply Co., 3220 2d av, Pittsburg, Pa.
Anhydrous Chemical Co., 54 Throop, Chicago, Ill.
Anti-Selenite Co. ("Anti-Selenite"), Security bldg, St. Louis, Mo.
Arlington Mfg. Co. ("Arlington" Vegetable), Canton, O.
Arrow Boiler Compound Co. ("Arrow"), Laclede bldg, St. Louis, Mo.
Atlantic Refining Co., Cleveland, O.
Barnum Bros. Co. ("Electric"), Troy, N. Y.
Bauchelle Mfg. Co., 78 Murray, New York
Bay State Boiler Compound Co. ("Bay State"), 511 E 5th, Boston, Mass.
Belden, A. G. & Co. ("Gambier"), 145 Maiden la, New York
Bird-Archer Co. ("Bird-Archer," "Manhattan," "Boogher"), 90 West, New York
Black Bear Co., 80 Pine, New York
Black Diamond Scale-All Co., 1649 Thames, Baltimore, Md.
Bougy, William ("I. X. L. Anti-Incrustator"), Bodine & Carlton, Phila., Pa.
Bell-Smith Factory Supply Co., 717 Main, Cincinnati, O.
Beltine Chemical & Mfg. Co., Kinzie & Sangamon, Chicago, Ill.
Binghamton Boiler Compound Co. ("Pyramid"), Binghamton, N. Y.
Buckeye Chemical Co., Chamber of Commerce, Detroit, Mich.
Cauton Paint & Varnish Co., Canton, O.

Champion Oil Co., W 39th & Lowe av, Chicago, Ill.
Cherry Chemical Co. ("Red Seal"), 10 N 19th, Phila., Pa.
Chesterton, A. W. & Co. ("Challenge"), 64 India, Boston, Mass.
Chrysolite Drug & Chemical Co. ("Coralline"), 32 Front, New York
Cleveland Mfg. & Supply Co. ("Cleveland"), Cleveland, O.
Continental Chemical Co. ("C. C. C."), Forrest bldg, Phila., Pa.
Corliss Chemical Co., 409 S 12th, St. Louis, Mo.
Cortland Specialty Co. ("Banner"), Cortland, N. Y.
Crawford, Clay, 845 W Woodruff av, Toledo, O.
Crescent Mfg. Co., 1708 Columbus rd, N W, Cleveland, O.
Dayton Boiler Compound Co., Dayton, O.
Dearborn Drug & Chemical Works, Postal Tel. bldg, Chicago, Ill.
De Long Boiler Compound Co., Syracuse, N. Y.
Dempsey, J. E. Co., Monadnock blk, Chicago, Ill.
Diamond Compound Co., Masonic Temple, Chicago, Ill.
Diana Oil Co. ("Benton's"), Cleveland, O.
Dixon Chemical Co., 210 Olive, St. Louis, Mo.
Dorman & Clapperton ("Anti-Carbon"), Andrus bldg, Minneapolis, Minn.
DuMond, Wm. R., 39 South, New York
Eagle Oil & Supply Co. (U. S. Standard), 104 Broad, Boston, Mass.
Economy Oil & Compound Co., 442 Clark, Chicago, Ill.
Engel & Fagersten Chemical Co. ("Neptune"), 1702 Wabash av, Chicago, Ill.
Eureka Chemical Co., 203 N Levee, St. Louis, Mo.
Evans, Johu T., 1824 Campbell, Kansas City, Mo.
Gallaway, G. W. ("Heichstadter's"), 322 Pearl, New York
Gardiner, G. N. & Son, 15 William
Gast, F. J. ("Compo."), 80 John, New York
General Lubricating Co., 1244 Belmont av, Phila., Pa.
General Specialty Co. ("Demon" & "Torpedo"), Buffalo, N. Y.
Gilmour, R. M. Co., 105 John, New York
Globe Boiler Compound Co., Binghamton, N. Y.
Goldstein, Wm., 630 Water, New York
Griffiths, A. J. & Son, 229 S Front, Phila., Pa.
Griggs Chemical Co., Indianapolis, Ind.
Harlem Supply Co. ("American"), 414 N Front, Baltimore, Md.
Harris, A. W. Oil Co. ("Harris"), Providence, R. I.
Hawk-Eye Compound Co., W 63d & Stewart av, Chicago, Ill.
Hayner, Norman C. Co., 16 S Washington, Rochester, N. Y.
Helbing, A. J. & Co. ("Mariue"), 1316 W 11th, N W, Cleveland, O.
Herb Boiler Compound Co., 6801 Pearl av, N W, Cleveland, O.
Howard Chemical Co. ("Scale-Off"), 63 Fulton, New York
Hull Bros., South Bend, Ind.
Hunt, Jas. B. Mfg. Co. ("The Hunt"), Trenton, N. J.
Ideal Boiler Compound Co., 19th & Grove, Chicago, Ill.

**When writing to firms
whose names appear
in this book please
mention**

**HENDRICKS'
COMMERCIAL
REGISTER.**

Illinois Boiler Cleaning Compound Co., 107 Dearborn, Chicago, Ill.
 Imperial Chemical Co., 519 N American, Phila., Pa.
 Indianapolis Chemical Co. ("Acme," "Star"), Indianapolis, Ind.
 International Boiler Cleaning Co. ("Sealine"), 423 East, Baltimore, Md.
 International Boiler Compound Co., 47 Market, Chicago, Ill.
 Ironsides Co., The Wyandotte, Columbus, O.
 Johns, H. W. Manville Co. ("Asbest"), 100 William, New York
 Johnson Compound & Supply Co. ("Sunac"), Rochester, N. Y.
 Keasbey & Mattison Co., Main Office & Works, Ambler, Pa.
 Kempner & Co., D. S. Morgan bldg, Buffalo, N. Y.
 Kentucky Consumers' Oil Co., 38th & Bank, Louisville, Ky.
 Kenzel, Jno. S., 451 Pearl, New York
 Keystone Chemical Mfg. Co. ("Keystone," Tri-Sodium Phosphate), Penna. bldg, Phila., Pa.
 Keystone Lubricating Co., Phila., Pa.
 Kohlbrand, H. & Co. ("Anchor"), 221 E Pearl, Cincinnati, O.
 Kuhne-Libby Co. ("Marvel"), 60 Water, New York
 Lagonda Mfg. Co. ("Lagonda," "Union," "Weinland"), Springfield, O.
 Lake Erie Boiler Compound Co. ("Red Star"), Buffalo, N. Y.
 Litofuge Mfg. Co., 30 W Randolph, Chicago, Ill.
 Lord, Geo. W. Co., 2238 N 9th, Phila., Pa.
 Lord, Henry W. ("Lord's"), Franklin bldg, Baltimore, Md.
 Lynch-Clarisey Co., 315 Dearborn, Chicago, Ill.
 Lynch, Wm., 32 Bay, Brooklyn, N. Y.
 Marine Boiler Compound Co., 877 Brook av, New York
 McJilton & Co. ("American"), 178 Atlantic av, Brooklyn, N. Y.
 Metropolitan Steam Boiler Compound Co., 26 Court, Brooklyn, N. Y.
 Minnesota Boiler Compound Co., Bradley bldg, St. Paul, Minn.
 Mohawk Refining Co. ("Mohawk"), 102 River, Cleveland, O.
 Moore Vegetable Boiler Purger Co., 21 Jefferson, Detroit, Mich.
 National Boiler Compound Co., 601 Mass. av, N W, Washington, D. C.
 National Equipment Co. (Inc.) ("National"), 211 N 7th, St. Louis, Mo.
 National Mill Supply Co. ("Star"), Fort Wayne, Ind.
 Nebraska Boiler Compound Co., Omaha, Neb.
 New Era Mfg. Co. (Soluble Metal), Kalamazoo, Mich.
 Nonkoroda Co., 25 New Chambers, New York
 Northrop Lubricating Oil Co. ("Famous"), 308 N Commercial, St. Louis, Mo.
 Nuhring, Chas. & Bro. ("Victor," "Success"), 907 Walnut, Cincinnati, O.
 O'Donnell, Hugh A., 223 Dupont, Myk., Phila., Pa.
 O'Neil Oil & Paint Co. ("O'Neils"), 297 E Water, Milwaukee, Wis.
 Parsons, J. H. Chemical Co. ("A. B. C. Alkali"), Masonic Temple, Chicago, Ill.
 Patapsco Oil & Grease Co. ("Perfection"), 109 Cheapside, Baltimore, Md.
 Perfection Boiler Compound Co., 7 Powell, San Francisco, Cal.
 Phelan, Michael, Troy, N. Y.
 Pittsburgh Boiler Scale Resolvent Co., Bessemer bldg, Pittsburgh, Pa.
 Read, Edward B., 208 9th, San Francisco, Cal.
 Reliance Oil & Grease Co., 50 South, New York
 Rhoads, Irwin G., 104 S Water, Phila., Pa.
 Russian Mfg. Co., 12 Federal, Allegheny, Pa.
 Scalesolvent Co., 17 John, New York
SCHULE, F. H. CO. ("Schule's Universal"), 27 Thames, New York. (See adv. index, end of book)
 Scribner Boiler Compound Co., 468 W Lake, Chicago, Ill.
 Smith, Kline & French Co. ("McNelly's" American), 429 Arch, Phila., Pa.
SMOOTH-ON MFG. CO. ("Smooth-on" Scale), 572 Communipaw av, Jersey City, N. J. (See adv. index & branch offices, end of book)
 Sorden, E., Bridge bldg, Phila., Pa.
 Standard Boiler Compound Co. ("Standard"), Bradford, Pa.
 Standard Compound Co. ("Kemolite"), Newark, N. J.
 Star Boiler Compound Co., 212 Sycamore, Cincinnati, O.
 Star Lubricating Co., 140 W 32d, New York
 Star Lubricating Oil Co. ("Excelsior"), 8408 Kinsman rd, S E, Cleveland, O.

Star Oil Co. ("Acme"), 307 S Desplaines, Chicago, Ill.
 State Mfg. Co. ("Metla-Cota"), 36 Michigan, Cleveland, O.
 Stephenson Mfg. Co. ("Stephenson"), Albany, N. Y.
 Sterling Boiler Compound Co., 299 B'way, New York
 Stoddard Oil & Compound Co., Cleveland, O.
STRAUS & CO. ("Boilerine"), 55 Broad, New York. (See adv. below)



Streett, J. D. & Co. ("Lightning"), 809 N 2d, St. Louis, Mo.
 Stuart, D. A. & Co., 455 Illinois, Chicago, Ill.
 Sullivan Oil Co., 48 Wells, Chicago, Ill.
 Superior Chemical Compound Works, Marquette bldg, Chicago, Ill.
 Surcoat Mfg. Co., 149 Jefferson av, Detroit, Mich.
 Thompson, Walter M., 835 W 5th, Cincinnati, O.
 Union Chemical & Drug Co., 222 E 2d, Cincinnati, O.
 U. S. Chemical Co., Wade bldg, Cleveland, O.
 Van de Sandt Mfg. & Supply Co. (Ltd.), 73 Warren, New York
 Van Dusen, E. W. Co., 428 E 2d, Cincinnati, O.
 Vulcan Asbestos Mfg. Co. ("Zincra"), 192 Pearl, New York
 Wadhams Oil Co. ("Eureka"), 215 National av, Milwaukee, Wis.
 Walsh, John F. ("U. S. Scalesolvent"), 25 W Lake, Chicago, Ill.
 Warley, Thos. C. & Co., 221 S Front, Phila., Pa.
 Warren & Bailey Mfg. Co. ("Acme"), 359 N Main, Los Angeles, Cal.
 West, John C., 213 Mission, San Francisco, Cal.
 Western Boiler Compound & Chemical Co., Hall bldg, Kansas City, Mo.
 Williamson, D. D. & Co. ("Fluoride"), 14 Dey, New York
 Wilson, Clark Co., 11722 Euclid av, Cleveland, O.
 Wilson Co. ("Wilson"), 18 B'way, New York
 Wilson & Roake, 261 Front, New York
 Wing, J. T. & Co., 19 Woodward av, Detroit, Mich.
 Winn, Wm. R. ("Winn"), 143 Maiden lane, New York
 Wolff, Norbert & Son ("Wolff"), 470 Greenwich, New York
 Zephon Chemical Compound Co., 77 Jackson boul, Chicago, Ill.
 Zurn, O. F. Co. ("Peerless"), 23 S 5th, Phila., Pa.

Boiler Coverings

(See Pipe & Boiler Coverings.)

Boiler Dealers

(See Machinery Dealers.)

Boiler Flue & Tube Cleaners

(See Cleaners, Boiler Flue & Tube)

Boiler Fronts & Castings

AMERICAN BRAKE SHOE & FOUNDRY Co., 170 B'way, New York. Works & Sales Office, Chicago Heights, Ill. (See adv. index & branch offices, end of book)
 Chlekasaw Iron Works, Memphis, Tenn.
 Eddy, R. M. Foundry Co., 59 Indiana, Chicago, Ill.
 Erie City Iron Works, Erie, Pa.
 Erie Engine Works, Erie, Pa.
 Eureka Heating & Ventilating Co., Saginaw, Mich.
 Freeman, S. & Sons Mfg. Co., Racine, Wis.
 Frost Mfg. Co., Galesburg, Ill.
 Harrishurg Foundry & Machine Works, (Colonial Style), Harrisburg, Pa.
 Harrishurg Mfg. & Boiler Co., Harrisburg, Pa.
 Keeler, E. Co., Williamsport, Pa.
 Kelly Foundry & Machine Co., Goshen, Ind.

KEWANEE BOILER CO., Kewanee, Ill., & 169 E Lake, Chicago, Ill. (See adv. index, end of book)
 Kutztown Foundry & Machine Co., Kutztown, Pa., & Fidelity bldg, Phila., Pa.
MINNEAPOLIS STEEL & MACHINERY Co., Minneapolis, Minn. (See adv. index & branch offices, end of book)
 Munroe, R. & Sons, Corporation, 23d & Smallman, Pittsburgh, Pa.
 Murray Iron Works Co., Burlington, Ia.
 Niver Iron Works Co., Muscatine, Ia.
 Nordyke & Marmon Co., (& Fixtures of all kinds), 1101 Morris, Indianapolis, Ind.
 Odum-Taylor Boiler Co., Memphis, Tenn.
 Paxton & Vierling Iron Works, Omaha, Neb.
 Peacock's Iron Works, Selma, Ala.
 Petty, J. K. & Co. (Lebanon Boiler Works), 206 N 4th, Philadelphia, Pa.; Works, Lebanon, Pa.
 Ricard Boiler & Engine Co., Toledo, O.
 Rock River Mfg. Co., Dixon, Ill.
 Scully Steel & Iron Co., 69 N Halsted, Chicago, Ill.
 Southern Engine & Boiler Works (Inc.), Jackson, Tenn.
 Stirling Consolidated Boiler Co. ("Stirling" & "Cahall"), 111 B'way, New York. Works: Barberton, O.
 Toledo Foundry & Machine Co., Toledo, O.
 Valley Iron Works, Williamsport, Pa.
 Vulcan Iron Works, Wilkes-Barre, Pa.
 Vulcan Iron Works Co., Toledo, O.

Boiler Heads (Flanged)

Avery Stamping Co. (all Ganges), 5207 Lakeside av, N E, Cleveland, O.
 Central Iron & Steel Co., Harrisburg, Pa.
 Glasgow Iron Co. (Flange & Dished, Steel), Pottstown, Pa.
 Lukens Iron & Steel Co., Coatesville, Pa.
 Ryerson, Jos. T. & Son, 22 Milwaukee av, Chicago, Ill.
 Scully Steel & Iron Co., 136 Fulton, Chicago, Ill.
 Springfield Boiler & Mfg. Co., Springfield, Ill.
 Worth Bros. Co. (Flange & Dished), Coatesville, Pa.

*Boiler Heads (Pressed Steel)

KOVEN, L. O. & BRO., 50 CHURCH, New York. (See adv. index, end of book)
PRESSED STEEL TANK CO. (Also Tank Heads), Milwaukee, Wis. (See adv. index, end of book)

Boiler Lugs

Castle, A. M. & Co. ("The Drake" Castle Pressed Steel), 55 N Jefferson, Chicago, Ill.
 Glasgow Iron Co. ("Pressed Steel), Pottstown, Pa., & 1502 Market, Phila., Pa.
 Lukens Iron & Steel Co., Coatesville, Pa.
 Ryerson, Jos. T. & Son (Inc.), 18 Milwaukee, Chicago, Ill.
 Worth Bros. Co., Coatesville, Pa.

*Boiler Makers' Press & Punching Table Combined

BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)

*Boiler Purifying Apparatus

SCAIFE, WM. B. & SONS CO., 221 1st, av, Pittsburgh, Pa. (See adv. index, end of book)

*Boiler Saddles (Cast Steel)

AMERICAN BRAKE SHOE & FOUNDRY Co., 170 B'way, New York. Works & Sales Office, Chicago Heights, Ill. (See adv. index & branch offices, end of book)

Boiler Saddles (Pressed Steel)

Central Iron & Steel Co., Harrisburg, Pa.
 Glasgow Iron Co., Pottstown, Pa., & 1502 Market, Phila., Pa.
 Lukens Iron & Steel Co., Coatesville, Pa.
 Worth Bros. Co., Coatesville, Pa.

Boiler Scale Preventing and Water Circulating System

Goss Engineering Co. (by Excess Steam Pressure), 303 Dearborn, Chicago, Ill.

Boiler Shells (Automobile)

Avery Stamping Co., Cleveland, O.
Hungerford, U. T. Brass & Copper Co. (Copper), 497 Pearl, New York
Randolph-Clowes Co. (Copper), Waterbury, Ct.
Janney, Steinmetz & Co. (Seamless Steel), Central Trust & Sav. bldg, Phila., Pa.
Pressed Steel Tank Co. (Seamless Steel), 718 Hanover, Milwaukee, Wis.
SCAIFE, WM. B. & CO., 221 1st av, Pittsburgh, Pa. (See adv. index, end of book)
Standard Welding Co. (Welded Steel), Cleveland, O.

Boiler Stands (Range)

Central Foundry Co. ("Murphy"), 116 Nassau, New York
Crawford Specialty Co., 100 North, Boston.
Fleck Bros. Co., 44 N 5th, Phila., Pa. Mass.
Gregory, Thos. (Galvanized), 63 Frost, Brooklyn, N. Y.
Iron Clad Mfg. Co., 204 Varet, Brooklyn, N. Y.
KOVEN, L. O. & BRO. (Galvanized), 50 Cliff, New York. (See adv. index, end of book)
Kupferle, John C., St. Louis, Mo. (book)
Lawler Water, Feed & Damper Regulator Co. (Adjustable), 158 Wooster, New York
Modern Iron Works, Quincy, Ill.
Northwestern Foundry Supply Co., Milwaukee Junction, Detroit, Mich.
SCAIFE, WM. B. & SONS CO. (Galvanized Iron), 221 1st av, Pittsburgh, Pa. (See adv. index, end of book)
Swett, A. L. Iron Works, Medina, N. Y.

Boiler Tubes

(See also Pipe & Tube Mills)

Coatesville Rolling Mill Co. (Lap Welded Charcoal Iron 1½ to 6 in. diameter), Coatesville, Pa.
Delaware Seamless Tube Co., Auburn, Pa.
Detroit Seamless Steel Tubes Co. (Cold Drawn Seamless Steel), Detroit, Mich.
Eagle Tube Co., 154 Nassau, New York
La Belle Iron Works (Lap Welded), Steubenville, O.
Mark Mfg. Co. (Lap Welded), Evanston, Ill.
Monongahela Tube Co., Ferguson blk, Pittsburgh, Pa.
National Tube Co., Frick bldg, Pittsburgh, Pa., & 24 State, New York
New Jersey Tube Co. (Spirally Corrugated), Harrison, N. J.
Pittsburg Seamless Tube Co., Beaver Falls, Pa.
Reading Iron Co., Reading, Pa.
Reliance Tube Co. (Lap Welded Steel & Charcoal Iron), Brackenridge, Pa., & 421 Wood, Pittsburgh, Pa.
Seamless Tube Co. of America, Frick bldg, Pittsburgh, Pa.
Shelby Steel Tube Co., Pittsburgh, Pa.
Spang, Chalfant & Co. (Inc.), 307 4th av, Pittsburgh, Pa.
Tyler Tube & Pipe Co. (Kobbed Charcoal Iron & Algerite Iron Boiler Tubes), Washington, Pa.
Tyrone Iron Co., Harrisburg, Pa.
Worth Bros. Co., Coatesville, Pa.

Boiler Washing & Testing Apparatus

Erie Heating Co. ("Erie" Automatic), Railway Exchange bldg, Chicago, Ill.
Nathan Mfg. Co., 92 Liberty, New York, & Old Colony bldg, Chicago, Ill.
Rue Mfg. Co., 120 Broad, Phila., Pa.
SCAIFE, WM. B. & SONS CO., 221 1st av, Pittsburgh, Pa. (See adv. index, end of book)

Boilers (Automobile)

Barton Boiler Co. ("Simplex" Flash), 2427 Calumet av, Chicago, Ill.
Bigelow Co. (Fire Tube), New Haven, Conn.
Janney, Steinmetz & Co. (Seamless Steel), Central Trust & Sav. bldg, Phila., Pa.
Kitts Mfg. Co. (Semi-Flash), Oswego, N. Y.
Locke Regulator Co. (Fire Tube), Salem, Mass.
Murray & Tregurtha Co. (Water Tube), Boston, Mass.
Ofeldt, F. W. & Sons (Water Tube), Nyack, N. Y.
PRESSED STEEL TANK CO. (Pressed Steel), Milwaukee, Wis. (See adv. index, end of book)
Steam Carriage Boiler Co. ("Universal" "Standard" Fire Tube), Oswego, N. Y.
Throop Perforating Co. (Fire Tube), Buffalo, N. Y.
Walker, E. C. Co. (Fire Tube), New Albany, Ind.

Boilers (Bath)

(See Boilers, Range, Galvanized Iron.)

Boilers (House Heating)

(See Heaters, Steam & Hot Water.)

Boilers (Locomotive, Fire Box)

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)
Atlas Engine Works, 19th & Martindale avs, Indianapolis, Ind.
KELLOGG-MACKAY-CAMERON CO., Chicago, Ill. (See adv. index & branch offices, end of book)
KEWANEE BOILER CO., Kewanee, Ill., & 169 E Lake, Chicago, Ill. (See adv. index, end of book)
PETROLEUM IRON WORKS CO., Washington, Pa., & Farmers' Bank bldg, Pittsburgh, Pa. (See adv. index, end of book)
Power & Mining Machinery Co., 52 William, N. Y. Works, Cudahy, Wis.

Boilers (Portable, on Wheels)

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)
Atlas Engine Works, 19th & Martindale avs, Indianapolis, Ind.
BYERS, JNO. F. MACHINE CO. (Vertical), Ravenna, O. (See adv. index, end of book)
Chandler & Taylor Co., 740 W Wash, Indianapolis, Ind.
Erie City Iron Works, Erie, Pa.
Freeman, S. & Sons Mfg. Co., Racine, Wis.
Frick Co., Waynesboro, Pa.
Munroe, R. & Son, 23d & Smallman, Pittsburgh, Pa.
OIL CITY BOILER WORKS (Inc.), Oil City, Pa., & 39 Cortlandt, New York. (See adv. index, end of book)
Phoenix Iron Works Co., Meadville, Pa.
Southern Engine & Boiler Works (Inc.), Jackson, Tenn.
Struthers, Wells Co., Warren, Pa.
Union Iron Works, 222 Market, San Francisco, Cal.

Boilers (Range, Copper)

BADGER, E. B. & SONS CO., 75 Pitts, Boston, Mass. (See adv. index, end of book)
Blessing, C. A., 516 Montgomery av, Phila., Pa.
Coltman, H. W. & Co., 84 Marginal, Boston, Mass.
Dahlquist Mfg. Co. ("Boston"), 40 W 3d, S Boston, Mass.
Hayes Mfg. Co. ("Wilhelme," "Modern" & "Manhattan"), Paterson, N. J.
Jochum, Andrew, 148 E 50th, N. Y.
Manchester, Jas. B. Co., Providence, R. I.
Randolph-Clowes Co. (Brown Bros. "Seamless"). Waterbury, Conn.
Reardon, Jno., 111 Albany, Boston, Mass.
Ronalds & Johnson Co., 43 Boerum pl, Brooklyn, N. Y.
SCAIFE, WM. B. & SONS CO., 221 1st av, Pittsburgh, Pa. (See adv. index, end of book)
Trageser, John Steam Copper Works, 447 W 26th, New York

Boilers (Range, Galvanized Iron)

Brooklyn Range Boiler Co., Borden av, Long Island City, N. Y.
Carroll, Patrick & Son, 1410 Fairmount av, Phila., Pa.
Clow, Jas. B. & Sons, 344 Franklin, Chicago, Ill.
Detroit Range Boiler Co., 619 24th, Detroit, Mich.
Harney, Wm., 1349 N Warnock, Phila., Pa.
Heller, Aller & Co., Napoleon, O.
Hibbs, E. A., 209 Quarry, Philadelphia, Pa.
Hill, Thos. B., 2314 N 8th, Philadelphia, Pa.
Iron Clad Mfg. Co., 204 Varet, Brooklyn, N. Y.
KOVEN, L. O. & BRO., 50 Cliff, New York. (See adv. index, end of book)
Lalance & Grosjean Mfg. Co., 19 Cliff, New York
Pennsylvania Range Boiler Co., 2010 N 10th, Phila., Pa.
Riverside Boiler Works, Cambridgeport, Mass.

Ronalds & Johnson Co., 43 Boerum pl, Brooklyn, N. Y.
Sadtler, J. P. B. & Co., 231 Park av, Baltimore, Md.
SCAIFE, WM. B. & SONS CO., 221 1st av, Pittsburgh, Pa. (See adv. index, end of book)
Thompson Iron Works, 1825 Callowhill, Philadelphia, Pa.
Trageser, John, Steam Copper Works, 447 W 26th, New York
Wolff, L. Mfg. Co., 117 W Lake, Chicago, Ill.
Wood, Jno. Mfg. Co. (Electric Welded Seamless), Conshohocken, Pa.

*Boilers (Range, Seamless Pressed Steel)

PRESSED STEEL TANK CO. (Seamless Drawn), Milwaukee, Wis. (See adv. index, end of book)

*Boilers (Steel Sectional)

ABENDROTH & ROOT MFG. CO. ("Root" Sectional Boilers a Specialty), Newburgh, N. Y. (See adv. index & branch offices, end of book)
GORTON & LIDGERWOOD CO., 96 Liberty, New York, & 84 Van Buren, Chicago, Ill. (See adv. index, end of book)
KELLOGG-MACKAY-CAMERON CO. (Tubular, for Heating or Power), Chicago, Ill. (See adv. index & branch offices, end of book)

Boilers (Tubular)

(See also Heaters, Steam & Hot Water.)

ALABAMA.

BIRMINGHAM—Birmingham Boiler Works (Marine; Return Tubular)
MONTGOMERY—Gulf City Boiler Works
SELMA—Union Iron Works Co.

ARKANSAS.

FORT SMITH—Ketcham Iron Co.
PINE BLUFF—Le Laurin, A. A.

CALIFORNIA.

EUREKA—Langford Bros.
FRESNO—McGinnes, P. A.
GRASS VALLEY—Taylor Bros.
LOS ANGELES—Baker Iron Works, 932 Buena Vista
California Boiler Works, 226 Queirolo
Fulton Engine Works, N Main & Alhambra av
Los Angeles Boiler Works, 119 Redondo
Llewellyn Iron Works, Redondo c N Main
Pioneer Boiler & Machine Works, Carolina & Palmetto
Union Iron Works, Molino & Palmetto
Western Boiler Works, ft. N 29th av
OAKLAND—Oakland Boiler Works, 659 Franklin
United Iron Works, 2d & Jefferson
SACRAMENTO—Cunningham, Sarah N.
SAN FRANCISCO—Bay City Iron Works, 1243 Harrison
Brode & Clark Iron Works, 621 Howard
California Boiler Works, 125 Fremont
Dyer Bros., 17th & Kansas
Eureka Boiler Works Co., 57 Mission
Fulton Iron Works, 511 Market
Hendy, Joshua Iron Works, Bay & Kearny
Keystone Boiler Works, Main c Folsom
Moore, Chas. C. & Co., 63 1st
Moynihan, T. J. & Co., 401 Folsom
Pacific Coast Boiler Works, 235 Main
Risdon Iron Works, Steuart c Folsom
San Francisco Iron Works, 223 Folsom
SULLIVAN MACHINERY CO. (of Chicago), 319 Howard. (See adv. index, end of book)
STOCKTON—Stockton Iron Works

COLORADO.

ALAMOSA—Gable, F. H.
BLACK HAWK—Stroehle, Geo. & Sons
Denver Engineering Works Co.
MINNEAPOLIS STEEL & MACHINERY CO. (of Minneapolis), 313 Exchange bldg. (See adv. index, end of book)
Star Boiler & Sheet Iron Works, 36th & Wazec
Stearns-Roger Mfg. Co., 1720 California

SULLIVAN MACHINERY CO. (of Chicago), 1748 B'way. (See adv. index, end of book)
 Young, Jno., 2245 Blake
PUEBLO—Owens & Owens
TRINIDAD—Hawkins & Barnett

CONNECTICUT.

BRIDGEPORT—Bridgeport Boiler Works
 McCathron, H. N., 76 Knowlton
 Pacific Iron Works, 113 E Washington av
HARTFORD—Beach, H. B. & Son, 135 Grove
NEW HAVEN—Bigelow Co. (Horizontal Return Tubular & Manning Vertical)
 New Haven Boiler Works, 175 East
NEW LONDON—Speirs Bros.
NORWICH—Page, W. H. Boiler Co.
PUTNAM—Putnam Foundry & Machine Co.
STAMFORD—Stamford Iron Works

DELAWARE.

WILMINGTON—Edge Moore Iron Co.
 Harlan & Hollingsworth Corp. (Marine)
 Pusey & Jones Co. (Marine & Stationary)

DISTRICT OF COLUMBIA.

WASHINGTON—Boswell, H. & Co., 1234 7th. S W
 Forsberg, Gustave W., 8th & Water, S W
 Hurley, John E., 1219 Ohio av
 Stephenson & Briscoe, 400 14th, N W

FLORIDA.

JACKSONVILLE—Merrill-Stevens Co.
PENSACOLA—Barr, H. M.

GEORGIA.

ATLANTA—Atlanta Machine Works, King c Ga. R. R.
 Babcock & Wilcox Co. (Forged Steel)
 Finnigan, J. J. & Co., 22 Means
AUGUSTA—Georgia Iron Works
 Lombard Iron Works & Supply Co.
BRUNSWICK—Bay Iron Works
COLUMBUS—Columbus Iron Works Co.
 Golden's Foundry & Machine Co.
MACON—Findlay Iron Works
 Schofield's, J. S. Sons Co.
NEWNAN—Cole, R. D. Mfg. Co. (Return Tubular)
SAVANNAH—Davis-Forrest Machine Works
 Kehoe, Wm. & Sons
 Mingledorff & Co., 510 Indian
 Rourke, John & Sons
 Savannah Locomotive Works & Supply Co.
VALDOSTA—Valdosta Foundry & Machine Co.

ILLINOIS.

AURORA—**AMERICAN WELL WORKS.**
 (See adv. index, end of book)
 Aurora Boiler Works (Inc.) (Stationary, Portable & House Heating)
BELLEVIEW—Southern Boiler Works
CANTON—Savill-Chandler Co.
CHICAGO—**ABENDROTH & ROOT MFG.**
 Co. ("Root") (of Newburgh, N. Y.), Monadnock blk. (See adv. index, end of book)
ALLIS-CHALMERS CO., First National Bank bldg. (See adv. index, end of book)
AMERICAN RADIATOR CO.
 ("Ideal" Steam & Hot Water), 282 Michigan. (See adv. index, end of book)
AMERICAN WELL WORKS (of Aurora, Ill.), First National Bank bldg. (See adv. index, end of book)

Ames Iron Works (of Oswego, N. Y.), Monadnock blk
Atlas Engine Works, 277 Dearborn
Babcock & Wilcox Co. (Forged Steel), 204 Dearborn
Baragwanath, W. & Son, 48 W Division
Barton Boiler Co, 2427 Calumet av
Blaney Steam Boiler & Tank Co., 4107 Emerald av
Browell Co. (of Dayton, O.), Monadnock blk
Butman Engineering Co., Monadnock blk
Chicago Ship Building Co. (Marine, etc.)
Chicago Steam Boiler Works, 54 Fullerton av
Corbett, Geo. E. & Co., 147 W Superior
East End Boiler Co., 279 Dearborn
Eclipse Machine & Boiler Works, 1146 W 14th
Edge Moor Iron Co. (of Wilmington, Del.), First National Bank bldg
Erie City Iron Works, 164 Dearborn; Works, Erie, Pa.
Gem City Boiler Co., 279 Dearborn; Works, Dayton, O.
Grand Crossing Boiler Works, 73d & I. C. R. R.
Haffner, Chas., 903 S Halsted
Hamler Boiler & Tank Co., 3906 S Halsted
Hibben & Co., 9376 Ewing av
Hill & Mathie, Av N & 102d
Illinois Malleable Iron Co., 539 Diversey av
Illinois Steam Boiler Works, 711 Carroll av
Keeler, E. Co. (Water Tube), 279 Dearborn
KELLOGG - MACKAY - CAMERON Co. (Tubular, for Heating or Power), Michigan av & 12th. (See adv. below)
KEWANEE BOILER CO. (of Kewanee, Ill.), 169 E Lake. (See adv. index, end of book)
Kissack, J. C., 711 Carroll av
Kling Bros., 287 Hawthorne av
Kroeschell Bros. Co. (Tubular, Locomotive & Upright), 55 Erie
Krumholz, August, 56 Fullerton av
Lakeside Boiler Works, 1406 33d pl
Laubheimer, Geo. E. Co., 1347 Carroll av
Lyons Bros. Boiler Co., 275 Lasalle
McFarland Bros., 5544 State
McGarry, Patrick & Son, 1175 S Paulina
McGregor, Geo. L., 246 S Clinton
McNeil Boiler Works, 279 Dearborn; Works, Akron, O.
MINNEAPOLIS STEEL & Machinery Co. (Cavanaugh-Darley Co., Rep.), 21 Plymouth ct. (See adv. index, end of book)
Mohr, John & Sons, 32 Illinois book)
National Boiler Works, 56 Fulton
Page Boiler Co., 16 Larrabee
Parker Boiler Co., Marquette bldg
Pfeiffer, Chris. Boiler Co., 70 Michigan
Pickham, Thos. F., 53 W 14th pl
Pratt, Henry Boiler & Machine Co., 869 S Ross Boiler Co., 4061 Lasalle Halsted
Sharkey & Peck, 1175 W 18th
Standard Safety Boiler Co., 355 Dearborn
Stirling Consolidated Boiler Co. (of Barberton, O.) ("Stirling" & "Cahall"), Pullman bldg
Sullivan Boiler & Tank Works, 697 38th
SULLIVAN MACHINERY CO., Railway Exchange bldg. (See adv. index, end of book)
Superior Machine & Boiler Works, 131 W Superior
Variety Boiler Works, 6 Chicago av
Wickes Bros. (of Saginaw, Mich.), 125 Monadnock blk. (See adv. index, end of book)
Wildman Boiler Works, 1276 W 12th
DANVILLE—Chesley Bros.
DECATUR—Oakes, Wm. L.
GALESBURG—Frost Mfg. Co. (Horizontal & Vertical Tubular)
JACKSONVILLE—Kellogg Bros. & Co.
JOLIET—Heggie, James G.
KEWANEE—**KEWANEE BOILER CO.** (See adv. index, end of book)
MOLINE—Schillinger, Martin
PEKIN—Murphy & Walsh Boiler Works

PEORIA—Cody, Jos. & Sons, 104 Cedar
 Forbes Boiler Works, 2521 S Washington
 McAleenan Boiler Co., 2600 S Washington
QUINCY—Grimm Boiler Co.
 Michelman Steel Construction Co.
ROCKFORD—McCarraan, James
 Shierk, D. D. & Co.
SPRINGFIELD—Drake, Wm.
 Springfield Boiler & Mfg. Co.
STREATOR—Jones, Wm. B.

INDIANA.

ANDERSON—Anderson Foundry & Machine
 Woolley Foundry & Machine Works
BRAZIL—Vanes, John
ELWOOD—McKenzie & Diamond Co.
EVANSVILLE—Heilman Machine Works, 127 Holtz, Ferd., 18 3d av L 1st
 Pelz, Wm., 13 3d av
FORT WAYNE—Bass Foundry & Machine Co. (Horizontal, Tubular & Water Tube)
 Fort Wayne Foundry & Machine Co.
 Gruber & Benze
HUNTINGTON—Newcomb, O. E.
INDIANAPOLIS—American Boiler & Sheet Iron Works, Linden & Van Buren
 Atlas Engine Works, 19th c Martindale av (Water Tube, Return Tubular, Portable, Internally Fired, Six-inch Flue, Vertical)
 Chandler & Taylor Co. (Tubular, Upright & Firebox), 740 W Washington av
 Cruse & Connaughton, 532 S Capitol av
 Kennedy, Patrick W., 1117 Beecher
 National Boiler & Sheet Iron Works, 1118 E Maryland
 Sinkers-Davis Co., 230 S Missouri
JEFFERSONVILLE—Sweeney, M. A. Shipyard & Foundry Co.
LAFAYETTE—McGrath, Robert H.
LA PORTE—Rumley, M. Co.
MARION—Walsh, E. F.
MUNCIE—Muncie Boiler & Sheet Iron Works
NEW ALBANY—Hegewald, Chas. Co.
RICHMOND—Gaar, Scott & Co.
 Richmond Machine Works
 Robinson & Co.
TERRE HAUTE—Korstad, A. P. Boiler Co.
 Terre Haute Boiler Works Co.

IOWA.

BURLINGTON—Murray Iron Works Co. (Tubular & Internal Furnaces, etc.)
CEDAR RAPIDS—Carmody, J. T.
CLINTON—Star Boiler Works, 8th av c 1st
DES MOINES—Beckman Bros., 5th & Racoon
 Des Moines Mfg. & Supply Co., 101 E Court av
 Globe Machinery & Supply Co., 414 Court av
 National Boiler & Iron Works, 212 E 1st
 Turner & Brownlie, 300 E Court av
DUBUQUE—Dubuque Boat & Boiler Works
 Morrison Bros.
KEOKUK—McElroy Iron Works Co.
MARSHALLTOWN—Shorthill, A. E. Co.
OTTUMWA—McDaniel, C. E.
 Ottumwa Iron Works
WATERLOO—Mussett, R. G.

KANSAS.

ENTERPRISE—Ehram, J. B. & Sons Mfg. Co.
KANSAS CITY—Kaw Boiler Works
PITTSBURG—McNally, Thos. & Son
WICHITA—Guldaman Bros.

KENTUCKY.

LOUISVILLE—Grainger & Co., 131 10th
 Mitchell, Jno. & Co., 312 11th
 Mitchell, Thos., 1713 W Main
 Reeder's Sheet Iron & Boiler Works, 19th & Main
 Vogt, Henry Machine Co.
 Walton, C. J. & Son., 1219 W Main

TUBULAR AND FIRE BOX BOILERS FOR HEATING OR POWER

We manufacture a line far above the average in material, workmanship, tests, efficiency, durability and economical use of fuel

MINNEAPOLIS SEATTLE
 KANSAS CITY

Kellogg-Mackay-Cameron Co.

CHICAGO

BOILERS, RADIATORS, HEATING AND PLUMBING SUPPLIES

LOUISIANA.

JEANERETTE—Jeffrey, Daniel

NEW ORLEANS—Babcock & Wilcox Co. (of New York) (Forged Steel), 343 Baronne Casey & Hedges Co. (of Chattanooga, Tenn.), Hennen bldg
Connell, J. D. Iron Works Co., 1145 S Front
Erie City Iron Works (of Erie, Pa.), 527
Heine Safety Boiler Co., 531 Canal
Houston-Stanwood & Gamble Co. (of Covington, Ky.), 405 Carondelet
Johnson Iron Works (Ltd.), Julia & Delta
Louisiana Boiler & Sheet Iron Works, 2344 Euphrosine

MINNEAPOLIS STEEL & MACHINERY CO. (of Minneapolis), 417 Hennen bldg. (See adv. index, end of book)

New Orleans Boiler Works (Jno. H. Murphy, Prop.), 643 Magazine

Southern Marine Works, Patterson, Morgan & Seguin

SHREVEPORT—Parsons, P.

THIBODAUX—Laughan & Golden
Thibodaux Boiler Works Co.

MAINE.

BANGOR—Union Iron Works

BATH—Bath Iron Works

HALLOWELL—Fuller's, Geo. Sons

PORTLAND—Estle & O'Brien Boiler Co.

Portland Co. ("Manning," "Dean" Marine & Stationary, Internally Fired), 58 Fore

ROCKLAND—Camden Anchor-Rockland Machine Co. (Marine, etc.)

MARYLAND.

BALTIMORE—Basshor, Thos. C. Co., 28 Light
Cathell Bros. & Co., 702 Covington
Clark, James Co., ft. Webster

CODD, E. J. CO., 700 S Caroline.
(See adv. index, end of book)

Coleman, John T., 407 E Saratoga

Fluskey, J. B., 1506 E Oliver

McIntyre & Henderson, ft Montgomery
Marine Railway Machine & Boiler Works,
1305 Philpot

Novelty Steam Boiler Works (Triplett & Jennings, Props.) (Stationary & Marine),
919 S Howard

Poole Engineering & Machine Co., Woodberry

Renneburg, Edward & Son, 1917 Aliceanna

Soho Iron Works, Allen & Clement

Spedden Ship Building Co. (Marine, etc.)

Zastrow, George W., 1410 Thames

CUMBERLAND—Enterprise Boiler Works
McKaig, Merwin

SPARROWS POINT—Maryland Steel Co.

MASSACHUSETTS.

BOSTON—Ames Iron Works (of Oswego, N. Y.),
131 State

Atlantic Works, 70 Border, E Boston

Babcock & Wilcox Co. (of New York)
(Forged Steel), 35 Federal

Boston Engineering Co., 25 India Wharf

Cunningham Iron Co., B & Fargo

Heine Safety Boiler Co. (of St. Louis, Mo.,
& Phoenixville, Pa.), 176 Federal

Hodge Boiler Works, Sumner, nr North
Ferry, E B

Minton, Richard, 119 Sumner, E B

Riverside Boiler Works, 19 Congress

Robb-Mumford Boiler Co. (of South Framing-
ham, Mass.), 170 Summer

Russell, Daniel Boiler Works, 97 Boston

Russell, James Boiler Works Co., C & W 1st

Stirling Consolidated Boiler Co. (of Barber-
ton, O.) ("Stirling" & "Cahall"), 10 P. O.

CAMBRIDGE—Campbell Iron Works sq.

Riverside Boiler Works, 50 Howard

Roberts Iron Works Co., 180 Main

Robinson, A. F. Boiler Works, Binney nr 1st

FALL RIVER—Fall River Boiler Works, 88
Plymouth av

Kelley, Edw. (Marine), 135 Central

FITCHBURG—Dillon, D. M.

FLORENCE—Norwood Engineering Co.

GLOUCESTER—Quinn, H. & Co.,
Sylvester, F. & Co.

HOLYOKE—Holyoke Steam Boiler Works
Walsh's Steam Boiler Works

LOWELL—Scannell Boiler Works

LYNN—Hayes, J. A. Foundry Co.

NEW BEDFORD—Babbitt, Wood & Co.
New Bedford Boiler & Machine Co.

QUINCY—Fore River Ship Building Co. (Marine,
etc.)

SOUTH FRAMINGHAM—Robb-Mumford Boiler
Co. (Inc.) (Locomotive Fire Box, Portable
Internally Fired, etc.)

SPRINGFIELD—Hawkins, R. F. Iron Works
Walsh Boiler & Iron Works, 200 Liberty

WORCESTER—Allen, Wm. Sons Co., 65 Green
Stewart Boiler Works, Albany

MICHIGAN.

ADRIAN—Decker & Kaiser

ANN ARBOR—Sutter, T. L. & Son

BATTLE CREEK—Brennan, Jno. & Co.

BAY CITY—Bay City Boiler Co.

Industrial Works

MacKinnon Mfg. Co.

Marine Iron Co.

National Boiler Works

BENTON HARBOR—Galligan, M. J.

CADILLAC—Hayes, Wm.

CHEBOYGAN—Cheboygan Boiler Works

Hub City Boiler Works

DETROIT—Brennan, John & Co., 24th & Toled
do av

Central Boiler Works, 3d & Congress

Dearing Water Tube Boiler Co. ("Dearing"
Water Tube), 555 Grand River av

Detroit Ship Building Co. (Marine)

East End Boiler Works (Marine & Station-
ary), 11 St. Aubin av

Great Lakes Engineering Works (Marine)

Pratt, Stephen, Beecher av & M. C. R. R.

Sprenger, J. & Sons, 1188 River

Taylor Water Tube Boiler Co. (Water Tube),
320 Franklin

ESCANABA—Cuddy, M. J.

FERRYBURG—Johnston Bros.

GRAND RAPIDS—Brobst, Henry Canal c Cold-
brook

Grand Rapids Boiler Works, 35 S Front

Leitelt, Adolph Iron Works, Erie c Mill

HANCOCK—Portage Lake Boiler Works

ISHPEMING—Cole, W. T.

JACKSON—Crowley & Maino

Keeley, James J.

KALAMAZOO—Clark Engine & Boiler Co.

Dutton, C. H. Co. (Horizontal & Vertical)

LANSING—Jarvis Engine & Machine Works

LUDINGTON—Davies, J. H.

MANISTEE—Manistee Iron Works Co.

MENOMONEE—Fernstrum, Frank G.

MUSKEGON—Michigan Boiler Works

Muskegon Boiler Works (also Marine)

Racine Boat Mfg. Co. (Marine)

OWOSSO—Brandel, J. H.

PORT HURON—Pioneer Boiler Works

SAGINAW—Bartlett, A. F. & Co.

Jackson-Church Co.

Wickes Bros.

ST. JOHNS—Richmond & Holmes

ST. JOSEPH—Isbell, J. W.

STANTON—Stanton Boiler Works

MINNESOTA.

DULUTH—Gogebic Steam Boiler Works, 409
Lake av

Northwestern Steam Boiler & Mfg. Co., 366
Garfield av

HOPKINS—Moran Boiler Co.

FERGUS FALLS—Fergus Iron Works Co.

MANKATO—Mankato Mfg. Co.

Mayer Bros. (Inc.)

MINNEAPOLIS—Bros, Wm. Boiler & Mfg. Co.,
Lower Nicolett Island

Diamond Boiler Works, 1828 N 1st

Enterprise Machine Co., 1118 S 3d

KELLOGG - MACKAY - CAMERON
Co. (of Chicago) (Tubular, for Heating or
Power), 106 2d, S. (See adv. index, end of
book)

**MINNEAPOLIS STEEL & MACHIN-
ERY CO.** (See adv. index, end of book)

North Star Boiler Works, 505 13th av, S

RED WING—Densmore Bros.

ST. PAUL—Kenny Boiler & Mfg. Co. 6th &
Locust

St. Paul Boiler & Mfg. Co., Water & Walter

STILLWATER—Doran, J. F.

THIEF RIVER FALLS—Conklin, H. J. & D. W.

WINONA—Schneider, J. C.

MISSISSIPPI.

CORINTH—Adams, W. T. Machine Co.

Corinth Engine & Boiler Works

VICKSBURG—Foley, P. J. & Son

Robinson, B. J.

MISSOURI.

JOPLIN—AMERICAN WELL WORKS.

(of Aurora, Ill.) (See adv. index, end of
book)

SULLIVAN MACHINERY CO. (of
Chicago). (See adv. index, end of book)

KANSAS CITY—Kaiser Boiler Works, 613 Bluff

Kansas City Boiler Works, 12 Garland

KELLOGG - MACKAY - CAMERON
Co. (Tubular, for Heating or Power), 2d
& Main. (See adv. index, end of book)

**MINNEAPOLIS STEEL & MA-
CHINERY CO.** (of Minneapolis), 1302 W 11th.
(See adv. index, end of book)

Missouri Boiler Works, 504 W 5th

Palmer Boiler Works, 329 State

Urie-Snyder Iron Works Co., Roberts & Cam-
bridge

ST. JOSEPH—Augustine, T. C., 2608 Bartlett

Geis & Biehler, 1005 S 8th

ST. LOUIS—Boycce Patent Locomotive Boiler
Co., 721 Olive

Brownell Co. (of Dayton, O.), 811 N 2d

Down-Draft Boiler & Machine Co., 23d &
Papin

Heine Safety Boiler Co., 421 Olive

Missouri Boiler & Sheet Iron Works

Nooter, Jno. Boiler Works Co., 816 N Main

O'Brien, John Boiler Works Co., 11th c
Mullanphy

Rohan, John & Sons Boiler Works Co.,
Lewis c Biddle

Ruemmeli-Dawley Mfg. Co., 3900 Chouteau

South St. Louis Foundry, 7514 S B'way

SULLIVAN MACHINERY CO. (of
Chicago), Missouri Trust bldg. (See
adv. index, end of book)

Verbarg, C. H., Lyon & Dorcas

Wangler, Joseph F. Boiler & Sheet Iron
Works, 9th & Mullanphy

Western Boiler & Sheet Iron Works, 240
Dickson

MONTANA.

ANACONDA—Anaconda Copper Mining Co.

BUTTE—**SULLIVAN MACHINERY CO.**
(of Chicago). (See adv. index, end of book)

Western Iron Works

NEBRASKA.

LINCOLN—Capitol Boiler & Sheet Iron Works

Smith, R. L. Machine Works

OMAHA—Drake-Williams-Mount Co.

**MINNEAPOLIS STEEL & MA-
CHINERY CO.**, 1212 Harney. (See adv. in-
dex, end of book)

Omaha Boiler Works

Wilson Steam Boiler Co.

NEW HAMPSHIRE.

CLAREMONT—**SULLIVAN MACHINERY**
Co. (of Chicago). (See adv. index, end of
book)

EXETER—Exeter Machine Works

NASHUA—Spence & Rideout

NEW JERSEY.

CAMDEN—New York Ship Building Co. (Ma-
rine)

GLOUCESTER CITY—Rogers, John M. Works
(Marine)

HOBOKEN—Atkinson, Wm. H. Co., ft of 7th
Fletcher, W. & A. Co. (Marine, etc.), 12th
& Hudson

JERSEY CITY—Flynn, W. S. (Marine), 74 Hud-
son

KOVEN, L. O. & BRO., Paterson
Plank rd c Montgomery. (See adv. index,
end of book)

JERSEY CITY—Koven, L. O. & Bro., Paterson
Plank rd c Montgomery

McLaughlin, Thomas, 53 Essex

Miller, Alex. & Bro., ft Morris

Smith, Theo. & Sons Co. (Stationary,
Marine & Return Tubular), ft Essex

NEWARK—Coatesville Boiler Works (of Coates-
ville, Pa.), 164 Market

Hewes & Phillips Iron Works, Orange c
Ogden

LAMBERT HOISTING ENGINE CO.,
117 Poinier. (See adv. Front Cover)

McCabe Boiler Works, 195 Commerce

Mullin, Benjamin F., 5 Arch

Mundy, J. S., 22 Prospect

PATERSON—Leslie, Elliott & Co., E Ry av &
Iowa av

Smith, Samuel & Son, 130 R. R. av

PHILLIPSBURG—Tippett & Wood

RED BANK—Roberts Safety Water Tube Boiler
Co.

TRENTON—Baker, W. H., Mulberry & St. Joes
av

MacKenzie's, Duncan Sons Co.

Spacklen Boiler & Machine Co., 3d below
Landing

Thropp, John E. Sons Co. (Marine), ft Lewis

Thropp, Wm. R., 968 E State

Watson, J. & Sons Co., 1 Fair

Oil City Boiler Works

MANUFACTURERS AND SOLE AGENTS OF THE

Geary Water Tube Boiler

AND THE

Hohenstein Marine Water Tube Boiler

ALSO BUILDERS OF

Horizontal Tubular Boilers

Vertical Tubular Boilers

Portable Boilers

“Electric” Portable Boilers

Iron and Steel Tanks

Smoke Stacks

Vertical Engines

Horizontal Engines

Gas Engines

Drilling Engines

Special Machinery

Special Sheet Iron and Steel Work

PLANS, SPECIFICATIONS AND ESTIMATES CHEERFULLY FURNISHED.

SEND FOR ILLUSTRATED CATALOGUES.

WORKS :

Oil City, Penna.

NEW YORK OFFICE :

39 Cortlandt Street



ROOT WATER TUBE BOILERS

Are not only built on correct mechanical principles insuring economy of construction, operation and repair, but individual parts are so carefully machined and fitted that they are absolutely interchangeable.

THEY GO TOGETHER
ON THE JOB.

ABENDROTH & ROOT MFG. CO.

Main Office and Works, NEWBURGH, N. Y.

BRANCHES:

NEW YORK

PITTSBURG

CHICAGO

MEXICO CITY



The **KEWANEE** High Pressure Horizontal Tubular Boilers are the result of many years study towards the production of a Boiler which fulfills every possible requirement. They are built upon honor, with the belief that every one which leaves our shops is the custodian of our reputation.

LET US SEND YOU OUR ILLUSTRATED CATALOGUE

KEWANEE BOILER COMPANY

Office and Works, Kewanee, Ill.

NEW YORK.

ALBANY—Green, Patrick F., 67 Church
 Skinner & Arnold Co., 205 B'way
 Walsh, Stephen, 98 Quay
 AMSTERDAM—Collins, John H.
 Haydinger, John, 46 Reid
 BINGHAMTON—Shapley & Wells, 118 Wash-
 ington
 BROOKLYN—(See New York City, Borough of
 Brooklyn)
 BUFFALO—AMERICAN RADIATOR CO.
 ("Ideal" Steam & Hot Water) (See adv.
 index, end of book)
 Bell, David Engineering Works, Evans &
 Farrar & Trefts, 65 Perry Norton
 Howard Bros. Boiler Works, 23 Indiana
 Lake Erie Boiler Works (Marine, etc.), 250
 Oldman Boiler Works, 38 Illinois Perry
 Riter & Cousins, 58 Mississippi
 Tashenberg Bros., 33 Illinois
 Union Boiler Works, 48 Marvin
 ELMIRA—Elmira Boiler & Iron Works
 FISHKILL LANDING—Fishkill Landing Ma-
 chine Co.
 Hignell, Jas. H.
 GENEVA—New York Central Iron Works Co.
 Vance Boiler Works
 JAMESTOWN—Jamestown Boiler Works
 KINGSTON—Cullum, J. & Co.
 LITTLE FALLS—Burrell, D. H. & Co.
 Reddy's, M. Sons
 LOCKPORT—Brown, Francis A.
 LONG ISLAND CITY—(See New York City,
 Borough of Queens)
 MARATHON—Climax Road Machine Co.
 NEWBURGH—ABENDROTH & ROOT
 Mfg. Co. ("Root") (See adv. index, end
 of book)
 Delaney, P. & Co. (Marine, etc.)

NEW YORK CITY.

Borough of Brooklyn.

BROOKLYN—Atlantic Basin Iron Works, Im-
 lay c Summit
 Columbia Engineering Works, Erie Basin
 Continental Iron Works, Calver e West
 Craven & Davis, 128 Dupont
 Cunningham, Christopher, 437 Greenpoint av
 Donohue, P. J. & Sons, 108 Wallabout
 Enderlin, Jos., Jr., & Co., 47 N 6th
 Franklin Machine & Steam Boiler Works,
 Gilroy, James J., ft of 24th 17 Franklin
 Hall & Hurlbert, W 8th nr Surf av
 Logan Iron Works, 42 Commercial
 McDonald Iron Works, 722 Court
 McGibbon Engineering & Iron Works, 14
 Columbia
 Morrin-Climax Boiler Co. ("Climax" Steam
 Generators), 240 Lorraine
 Raab Iron Works Co., ft of 26th
 Robins, Jno. N. Co., ft of Dwight
 Ross Iron Works, ft of 27th
 White, Rob't Engineering Works ("White"
 Marine), ft Columbia

Boroughs of Manhattan & Bronx

NEW YORK—ABENDROTH & ROOT
 Mfg. Co. (of Newburgh, N. Y.) ("Root"),
 11 B'way. See adv. index, end of book)
 Ahern, Dennis, 263 South
 Almy Water Tube Boiler Co., 45 B'way;
 Works: Providence, R. I.
 Ames Iron Works, 85 Liberty. Works: Os-
 wego, N. Y.
 Andrews, Phalon & Co., 240 West
 Babcock & Wilcox Co. (Forged Steel), 85
 Liberty
 Bass Foundry & Machine Co., 141 B'way.
 Works: Fort Wayne, Ind.
 Beggs, Jas. & Co., 109 Liberty
 Bigelow Co., 85 Liberty. Works: New Hav-
 en, Conn.
 Brownell Co., 220 B'way. Works: Dayton,
 O.
 Coatesville Boiler Works, 141 B'way.
 Works: Coatesville, Pa.
 Cokefair, E. N., 39 Cortlandt
 Delany, P. & Co., 38 Park row. Works:
 Newburgh, N. Y.
 Dunne, Michael F., 223 West
 Fitzgibbon Boiler Co., 26 Cortlandt. Works:
 Oswego, N. Y.
 Fogarty, Michael, 533 W 33d
 Fox's, Geo. Sons, 511 W 34th
 Franklin Boiler Works Co., 39 Cortlandt.
 Works: Troy, N. Y.
 Gas Engine & Power Co. & Chas. L. Sea-
 bury & Co. (Marine & Stationary), Morris
 Heights, N. Y.
 Gem City Boiler Co., 42 B'way. Works:
 Dayton, O.

GORTON & LIDGERWOOD CO., 96

Liberty. (See adv. index, end of book)
 Grauger, A. D. Co., 95 Liberty
 Harrisburg Foundry & Machine Works, 114
 Liberty. Works: Harrisburg, Pa.
 Harrisburg Mfg. & Boiler Co., 95 Liberty.
 Works: Harrisburg, Pa.
 Heine Safety Boiler Co., 11 B'way. Works:
 St. Louis, Mo., & Phoenixville, Pa.
 Helpershausen Bros., 45 Tompkins
 Herendeen Mfg. Co., 296 Pearl. Works:
 Geneva, N. Y.
 Houston, Stanwood & Gamble Co., 42 B'way
 Works: Covington, Ky.
 Kingsley Water Tube Boiler Co., 24 State
 LIDGERWOOD MFG. CO., 96 Lib-
 erty. (See adv. index, end of book)
 McEwen Bros., 100 William
 Mitchell Co. (Marine), 621 W 24th
 Mosher Water Tube Boiler Co., 1 B'way
 Mott Haven Steam Boiler & Engine Works,
 487 E 138th
 New York Central Iron Works Co., 150
 Nassau. Works: Geneva, N. Y.
 New York Safety Steam Power Co. (Worth-
 ington Sectional), 114 Liberty
 Nichols, D. M. Iron Works, 2 Gouverneur pl
 OIL CITY BOILER WORKS (Inc.)
 ("Geary" Stationary, & "Hohenstein"
 Marine), 39 Cortlandt. Works: Oil City,
 Pa. (See adv. index, end of book)
 Page, W. H. Boiler Co., 17 Park row.
 Works: Norwich, Conn.
 Parker Boiler Co., 220 B'way
 Phelps Bros. Co., 210 Water
 Quintard Iron Works, 742 E 12th
 Reid, Alex., 165 Christopher
 Robb-Mumford Boiler Co., 11 B'way. Works:
 South Framingham, Mass.
 RUGGLES-COLES ENGINEERING
 Co. (Horizontal & Tubular), 39 Cortlandt,
 (See adv. index, end of book)
 Smith, A. & Son, 685 11th av
 Smith, H. B. Co., 133 Centre. Works:
 Westfield, Mass.
 Stirling Consolidated Boiler Co. (of Barber-
 ton, O.) ("Stirling" & "Cahall"), Trinity
 bldg
 Struthers-Wells Co. (of all types), 26 Cort-
 landt. Works: Warren, Pa.
 SULLIVAN MACHINERY CO., 42
 B'way. Works: Claremont, N. H. (See
 adv. index, end of book)
 Thorpe, Platt & Co., 97 Cedar
 TUOHY BROS. CO. (New & Second
 Hand), 95 Liberty. (See adv. index, end
 of book)
 Turl's, John Sons (Inc.), 26 Cortlandt.
 Works: Newburgh, N. Y.
 Union Iron Works, 95 Liberty. Works: Erie,
 Washington Co., 39 Cortlandt Pa.
 Watertown Engine Co., 39 Cortlandt. W'ks:
 Watertown, N. Y.
 Wetherill, Robert & Co., 42 B'way. Works:
 Chester, Pa.
 Wickes Bros., 95 Liberty. Works: Saginaw,
 Mich.
 York Mfg. Co. (Ltd.) (Return Tubular), 18
 Park pl. Works: York, Pa.

Borough of Queens.

LONG ISLAND CITY—Collins Iron Works
 Hagan, Hugh, East av & 1st
 Queens Borough Boiler Works
 (END OF NEW YORK CITY)
 NORTH TONAWANDA—Herschell-Spillman Co.
 NYACK—Kane, John (Portable)
 OGDENSBURG—Nash Bros. & Co.
 OSSINING—Kipp, A., Jr.
 OSWEGO—Ames Iron Works (Tubular, Port-
 able on Skids or Wheels)
 Fitzgibbon Boiler Co.
 Kingsford Foundry & Machine Works (Sta-
 tionary, Marine & Portable)
 Oswego Boiler & Engine Co.
 ROCHESTER—Hall's, Sidney Sons, 175 Mill
 Rochester Machine Tool Works (Ltd.)
 ("Buckley" Patent Water Tube), 3 Frank
 Wilson, W. A. Machine Co., River & N
 Water
 SYRACUSE—Barber Bros., 500 E Water
 Hennessy, Dennis, 423 S West
 Mack Bros., 406 Marcellus
 Perry, Jno. W. & Son, 416 Canal
 Syracuse Boiler Works, 610 E Water
 TONAWANDA—Gillie Engine & Machine Co.
 Mahar, Jno.
 TROY—Franklin Boiler Works Co., G. I.
 Pinkerton, Robert, Green Island
 Southerland & Kelly, 7th av & North
 UTICA—O'Hanlon, Thos. & Sons, 2 Pine
 Utica Steam Engine & Boiler Works

WATERTOWN—Watertown Engine Co. (Heavy
 Duty, High Pressure)
 WATERVLIET—Miller & Klein
 WELLSVILLE—McEwan Bros.

NORTH CAROLINA.

CHARLOTTE—Liddell Co.
 Meeklenburg Iron Works
 SANFORD—Moffitt Iron Works Co.
 WINSTON SALEM—Salem Iron Works

NORTH DAKOTA.

CAVALIER—Busse, E. H. & Co.
 FARGO—Craig, Archie J.
 Fargo Foundry Co.
 GRAND FORKS—Dow, Daniel
 OVERLY—Severson Bros.

OHIO.

AKRON—Biggs Boiler Works Co.
 McNeil Boiler Co.
 ALLIANCE—Reeves Bros. Co.
 ASHTABULA—McKinnon Iron Works
 McLaughlin Iron Works
 BARBERTON—Stirling Consolidated Boiler Co.
 ("Stirling" & "Cahall")
 CANTON—Canton Boiler & Engineering Co.
 Kittoe Boiler & Tank Works
 CINCINNATI—Barnes, Chas. Co., 55 Main
 Fritsch, Francis Mfg. Co., McMicken av,
 Dunlap & Stark
 McIlvain & Spiegel Boiler & Tank Co., 465
 E Pearl
 Stirling Consolidated Boiler Co. (of Barber-
 ton, O.) ("Stirling" & "Cahall"), Ingalls
 bldg
 Tudor Boiler Mfg. Co. (Tubular, Horizontal
 & Vertical), 716 E Pearl
 CLEVELAND—American Ship Building Co.
 (Marine), 2017 Superior av, N W
 Babcock & Wilcox Co. (of New York)
 (Forged Steel), New England bldg
 Connolly, D. Boiler Co., 938 West av, N W
 Cuyahoga Boiler Works, 1206 Main av, N W
 Kilby Mfg. Co., 4623 Lakeside av, N E
 Lake Erie Boiler Works, 2503 Elm av, N W
 Murphy & Donnelly Boiler Co. (Marine),
 2509 Elm av, N W
 Ohio Machine & Boiler Co., 1201 River av,
 N W
 Teachout, H. E. Boiler Works, E 37th &
 Erie R. R.
 Variety Iron & Steel Works Co.
 COLUMBIANA—Columbiana Boiler Co.
 COLUMBUS—Borger Bros. Co.
 Columbus Boiler Co., Parsons av & T. &
 O. C. Ry
 Columbus Steam Boiler & Heater Co. (The
 "Kimball")
 Scioto Boiler Works, 33 N Scioto
 Union Boiler Works, 71 S Center
 DAYTON—Beckley, Joseph C.
 Brownell Co. (Portable, Vertical & Return
 Tubular)
 Buckeye Boiler Co., 1000 E 3d
 Graves & Marshall, 407 E 1st
 Platt Iron Works Co.
 DEFIANCE—Defiance Machine Works
 FINDLAY—Adams Bros. Co.
 McArthur, Geo.

When writing to firms
 whose names appear
 in this book please
 mention

HENDRICKS'
COMMERCIAL
REGISTER.

GIRARD—Girard Boiler & Mfg. Co.
HAMILTON—Empire Machine Co.
LEETONIA—Lectonia Boiler Co.
LIMA—Golley & Finley Iron Works
LORAIN—American Ship Building Co. (Marine)
LOWELLVILLE—Meehan Boiler & Cons. Co.
MANSFIELD—Aultman & Taylor Machinery Co. (Tubular)

MARIETTA—Ohio Valley Boiler Works
Pattin Bros. Co.
Strecker, H.

MARION—Huber Mfg. Co.
MASSILLON—Russell & Co.
MIDDLEPORT—Middleport Boiler Works
Ohio Machine Co.

MOUNT VERNON—Cooper, C. & G. Co. (Steel)
NEWARK—McNamara, Julius, J. D.

Scheidler Machine Works Co.
NILES—Niles Boiler Co.

RAVENNA—Byers, John F. Machine Co.
ST. MARYS—St. Mary's Machine Co.

SANDUSKY—Klotz Machine Co.
SPRINGFIELD—Casey, D. L. Machine Co., 74 E Washington

Leffel, Jas. & Co. (Inc.) (Stationary, Portable, Horizontal & Vertical)

Roberts, Thomas, Highland av

Trump Mfg. Co. (Stationary, Portable, Horizontal & Vertical)

STEUBENVILLE—Cady, A. L.

TIFFIN—Canty, John F.

Conley, T. F.

TOLEDO—Globe Boiler Works

Loos, Adam, 139 S Erie

Marine Boiler Works Co.

Ricard Boiler & Engine Co.

Toledo Boiler Works Co.

Toledo Ship Building Co.

WARREN—Stantial, Wm. & Son

Warren City Boiler Works

WOOSTER—Barrett's, B. Sons

YOUNGSTOWN—Pollock, W. B. Co.

ZANESVILLE—Griffith & Wedge Co.

Union Machine Co.

OREGON.

ALBANY—Albany Iron Works

ASTORIA—Iron Works (Inc.)

PORTLAND—Columbia Engineering Works, 10th c Johnson

Honeyman, Jno. & Co., 307 Front

Phoenix Iron Works, Hawthorne av c E 3d

PENNSYLVANIA.

ALLEGHENY—CARLIN'S, THOS. SONS Co., 1300 River av

Morrison, James F., South & Grant avs

Pearson Mfg. Co.

ALLENTOWN—Allentown Boiler Works (Colum & Knouse, Props.)

Heilman Boiler Works

McDermott Bros.

BEAVER FALLS—Beaver Valley Boiler Works

BRADFORD—Bovaird & Co.

Bovaird & Seyfang Mfg. Co.

O'Brien & Double

CATASAUQUA—McCloskey Bros.

CHESTER—Berry Engineering Co. ("Berry" Safety)

Delaware River Iron Ship Building & Engine Works (Marine)

Wetherill Bros Machine Co.

Wetherill, Robert & Co. ("Berry" Safety, Tubular, Flue, Marine & Fire Box)

COATESVILLE—Coatesville Boiler Works (Return Tubular, Stationary, Vertical, etc.)

COLUMBIA—Fairer & Son

CONSHOHOCKEN—Bate, Wm. T. & Son

CORRY—Ajax Iron Works (Stationary & Portable)

Climax Mfg. Co.

Corry Steam Boiler Works

DUBOIS—Dubois Iron Works (Tubular)

EAST STROUDSBURG—International Boiler

ERIE—Erie City Iron Works (Stationary, Portable, Vertical, Return Tubular, etc.)

Erie Engine Works

Nagle Engine & Boiler Works

Pennsylvania Boiler Works

Union Iron Works

HAMBURG—Seiders, Henry

HARRISBURG—Harrisburg Foundry & Machine Works (High Duty)

Harrisburg Mfg. & Boiler Co.

HOLLIDAYSBURG—Madden Boiler Works

KENNETT SQUARE—American Road Machine Co. (Portable & Stationary)

LANCASTER—Barry & Zecher Co.

LANDISVILLE—Monitor Steam Generator Mfg. Co. (Wrought Iron Coil High Pressure)

LEBANON—Petty, J. K. & Co. (Return Tubular, Locomotive, Vertical, etc.)

Union Boiler Mfg. Co.

MEADVILLE—Phoenix Iron Works Co.

NEW CASTLE—Fleming's Wm. Sons
Pennsylvania Engineering Works
NORRISTOWN—Gibbons, Jas. C. & Son
Newbold, R. S. & Son Co.

OAKDALE—Kinney, F.

OIL CITY—OIL CITY BOILER WORKS (Inc.) See adv. index, end of book

Oil Well Supply Co.

Ravey, Joseph H.

PETROLIA—Barney, H. M.

PHILADELPHIA—Ames Iron Works (of Oswego, N. Y.), Arcade bldg.

Babcock & Wilcox Co. (of New York) (Forged Steel), No. American bldg.

Baizley, John Iron Works, 510 S Delaware av

Baldwin Locomotive Works, 500 N Broad

Coatesville Boiler Works (Inc.) (of Coatesville, Pa.) (Stationary, Vertical, etc.)

Connery Co., 1326 N 9th Fidelity bldg

Cramp, Wm. & Sons Ship & Engine Building Co. (Marine), Beach c Ball

Elba Iron Works, Perry bldg

Erie City Iron Works, Land Title bldg.

Main office, Erie, Pa.

Ervien, C. W. & Co., G. & E. Venango

General Engineering Co. ("Gemmell"), 764 S

Gilman, Wm., 1110 Beach Swanson

Goldner, Henry & Son, Tasker st wharf,

Heine Safety Boiler Co., Penna bldg.

Works, Phoenixville, Pa.

Keeler, E., Co. (of Williamsport, Pa.), Real Estate Trust bldg.

McGoveru & Smlth, 2054 E Lehigh av

Morris I. P. Co., Beach & Ball

Naylor, John S., Front & Gerard av

New York Safety Steam Power Co. (of New York City), 704 Arch

Page, Wm. H. Boiler Co. (of Norwich, Conn.), 620 Arch

Parker Boiler Co., Pennsylvania bldg

Petty, J. K. & Co. (Return, Tubular, Locomotive, Vertical, etc.), Girard bldg.

Works: Lebanon, Pa.

Philadelphia Iron Works, 18th & Penn av

Seyfert's, L. F. Sons, 439 N 3d

Titusville Iron Co., Arcade bldg. Works: Titusville, Pa.

Williamson Bros. Co., Aramingo av & E. Cumberland

PHOENIXVILLE—Heine Safety Boiler Co.

PITTSBURG—ABENDROTH & ROOT Mfg. Co. ("Root"), Diamond Bank bldg.

Works: Newburgh, N. Y. (See adv. index, end of book)

Babcock & Wilcox Co. (of New York) (Forged Steel), Frick bldg

Carroll Porter Boiler & Tank Co., Empire

Hawthornth Bros., 3017 Smallman bldg.

Heine Safety Boiler Co., Fulton bldg.

Works: St. Louis, Mo., & Phoenixville, Pa.

Lappan, Jas. Mfg. Co., 20th & Pike

Long, Walter, Muriel & S 14th

Manchester, Wm. Co., 3108 Smallman

MINNEAPOLIS STEEL & MACHINERY Co. (of Minneapolis), Bessemer bldg.

(See adv. index, end of book)

Munroe, R. & Sons Mfg. Corporation, 23d & Smallman

OIL WELL SUPPLY CO., 215

Water. (See adv. index, end of book)

PETROLEUM IRON WORKS CO.,

Farmers' B'k bldg. (See adv. index, end of book)

Rheam, S. B. & Co., 43d & A. V. Ry.

Riter-Conley Mfg. Co., 56 Water

Rust Boiler Co. (Water Tube), German National Bank bldg

SCAIFE, WM. B. & SONS CO., 221

1st av. (See adv. index, end of book)

Stirling Consolidated Boiler Co. (of Barberston, O.) ("Stirling" & "Cahall"), Farmers Bank bldg

SULLIVAN MACHINERY CO.,

(of Chicago), Farmers Bank bldg. (See adv. index, end of book)

POTTSTOWN—Sotter Bros. (Inc.)

POTTSVILLE—Sparks & Parker

READING—Keystone Boiler Works

Orr & Sembower (Inc.) (Vertical, Horizontal & Locomotive)

Penn Boiler Works

Reading Iron Co.

Reading Scale & Machine Co.

SCRANTON—ALLIS-CHALMERS CO. (See adv. index, end of book)

Finch Mfg. Co., N 8th c W Linden

Mursch, Fred. Jr., 500 Birch

SHAMOKIN—Mullen, John & Son

SHARON—Sharon Boiler Works, Ltd.

TATAMY—Messinger Mfg. Co. (Low Pressure)

TITUSVILLE—Titusville Iron Co. (Horizontal, Tubular & Fire Box)

TROY—Troy Engine & Machine Co.

TYRONE—Reader Bros. & Hoffman

WARREN—Hammond Iron Works

Struthers-Wells Co. (of all Types)

WASHINGTON—PETROLEUM IRON Works Co. (See adv. index, end of book)

WAYNESBORO—Frick Co.

Geiser Mfg. Co.

WILKES-BARRE—Backus, Peter B.

Vulcan Iron Works

WILLIAMSPORT—Keeler, E. Co.

YORK—Farquhar, A. B. Co. (Tubular)

Motter, Geo. F. & Sons

York Mfg. Co. (Ltd.) (Return Tubular)

York Steam Boiler Works

RHODE ISLAND.

HOPE VALLEY—Nichols & Langworthy Machine Co.

PROVIDENCE—Almy Water Tube Boiler Co. (Marine)

Globe Steam Boiler & Iron Works, 341 Eddy

Hicks Boiler Works, 614 S Main

Wholey Boiler Works, Concord off Smlthfield av nr City Line

SOUTH CAROLINA.

CHARLESTON—Charleston Iron Works

Riverside Iron Works

Valk & Murdock Iron Works

SOUTH DAKOTA.

MADISON—Hanson, Peter

MITCHELL—Mitchell Boiler & Machine Works

Summers, Frank A.

SIOUX FALLS—Harding, B. W.

WATERTOWN—Hanten Bros.

TENNESSEE.

CHATTANOOGA—Casey & Hedges Co.

Chattanooga Boiler & Tank Co.

Lookout Boiler & Mfg. Co.

Sherman-Morris Mfg. Co.

Walsh & Weidner Boiler Co.

JACKSON—Southern Engine & Boiler Works

KNOXVILLE—Dallas, B. B.

SULLIVAN MACHINERY CO. (of Chicago). (See adv. index, end of book)

MEMPHIS—Chickasaw Iron Works, 2d c Winchester

McCarthy & Son, 130 N Front

Odium-Taylor Boiler Co.

Shea, Daniel Boiler Works, Front & Wash

NASHVILLE—Culbert, Wm. & Sons, 127 S. Market

SOUTH PITTSBURG—Tenn. Coal, Iron & R. R. Co.

TEXAS.

BEAUMONT—Beaumont Iron Works

Texas Boiler Works

DALLAS—AMERICAN WELL WORKS (of Aurora, Ill.). (See adv. index, end of book)

Moshier Mfg. Co. (book)

Thrash, J. F.

EL PASO—MINNEAPOLIS STEEL & Machinery Co. (of Minneapolis), Guaranty Trust bldg. (See adv. index, end of book)

SULLIVAN MACHINERY CO. (of Chicago), 206 St. Louis. (See adv. index, end of book)

FORT WORTH—Vanzandt-Moore Iron Works

GALVESTON—Astell Iron Works Co., 2615

Bothman, Wm., 2509 Mechanic Strand

McDonough Iron Works, 1901 Strand

HOUSTON—Hartwell Iron Works

PETROLEUM IRON WORKS CO. (of Washington, Pa.). (See adv. index, end of book)

Tofte Boiler & Sheet Iron Works

SAN ANTONIO—Alamo Iron Works

Collins, Gunther

SHERMAN—Washington Iron Works

TEXARKANA—Texas Steam Engine Works

UTAH.

SALT LAKE CITY—Haynes, H. E. & Co.

Holmes, Samuel

MINNEAPOLIS STEEL & MACHINERY Co. (of Minneapolis), Dooley blk. (See adv. index, end of book)

SULLIVAN MACHINERY CO. (of Chicago), Keith bldg. (See adv. index, end of book)

VERMONT.

NORTH BENNINGTON—Simmons, H. C.

RUTLAND—Holmes, J. H. & Co.

WINOOSKI—Stevens Machine Co.

VIRGINIA.

NEWPORT NEWS—Newport News Ship Building & Dry Dock Co.
NORFOLK—Duvall, Geo. W. & Co.
 Etna Iron Works
RICHMOND—American Locomotive Co. (Locomotive Boilers only)
 McCabe, Geo. & Son, 4016 7th, Fulton

WASHINGTON.

BALLARD—Ballard Boiler Works (Inc.)
BELLINGHAM—Reid Bros. Co.
EVERETT—Sumner Iron Works
OLYMPIA—Mason, C. Z.
SEATTLE—Foster, Jno., Railroad av, ft of Stewart
KELLOGG - MACKAY - CAMERON
 Co. (of Chicago) (Tubular, for Heating or Power), 639 New York blk. (See adv. index, end of book)
 Markey, H. W., 830 1st av, S
MINNEAPOLIS STEEL & MACHINERY Co. (of Minneapolis), Globe bldg. (See adv. index, end of book)
 Puget Sound & Queen City Boiler Works, ft of King
 Standard Boiler Works, 1013 1st av, S
 Washington Iron Works Co., Grant st bridge
SPOKANE—Cleary, J. E.
TACOMA—Norton, Wm., 2110 A
 Puget Sound Dry Dock & Machine Co., 1701 Dock
 Puget Sound Iron & Steel Works, A c 21st

WEST VIRGINIA.

CAIRO—Donovan, Hugh
CHARLESTON—South Side Foundry & Machine Works
 Strow-Patchell Machine & Foundry Co.
 Vulcan Iron Works
 Ward, Charles
CLARKSBURG—Clarksburg Boiler Works
MANNINGTON—West Virginia Boiler & Machine Co.
PARKERSBURG—Mountain State Boiler Works
SISTERVILLE—Ryan, E.

WISCONSIN.

APPLETON—Appleton Steam Boiler & Mfg. Co.
ASHLAND—Sanders, Robert E.
CUDAHY—Power & Mining Machinery Co. (Locomotive Fire Box Co.)
DE PERE—De Pere Boiler & Mfg. Co.
EAU CLAIRE—Eau Claire Boiler Works
FOND DU LAC—Fond du Lac Boiler Works
GREEN BAY—O'Leary Bros.
HURLEY—Lambrix, Michael
JUNEAU—Briemann, C. G.
LA CROSSE—La Crosse Boiler Co.
MANITOWOC—Manitowoc Steam Boiler Works
MARINETTE—Hunt, Lawrence
MENOMONEE FALLS—Menomonee Falls Boiler Works
MILWAUKEE—**ALLIS-CHALMERS CO.**
 (See adv. index, end of book)
 American Boiler Works, 287 Virginia
 Cream City Marine Boiler Works, 183 Barclay
 Davis Bros. Mfg. Co., 576 Clinton
 Logeman Bros. Co., 286 Oregon
 Mertes-Miller Co., 239 Lake
 Milwaukee Boiler Co.
 Milwaukee Dry Dock Co. (Marine), ft of Washington
 Reliance Boiler Works, Canal, E Muskego av
VILTER MFG. CO., 1046 Clinton.
 (See adv. index, end of book)
OSKOSH—Battis Bros.
 Reliance Boiler Works
RACINE—Freeman, S. & Sons Mfg. Co.
SHEBOYGAN—Optenberg & Sonneman (Stationary & Marine)
SUPERIOR—National Boiler Works Co.
 Superior Boiler Works
WATERTOWN—Darnfeld-Kunert Co.

Boilers (Water Tube)

ABENDROTH & ROOT MFG. CO.
 ("Root"), Newburgh, N. Y. (See adv. index & branch offices, end of book)
 Ahern, D., 263 South, New York
ALLIS-CHALMERS CO., Milwaukee.
 Wis. (See adv. index & branch offices, end of book)

Almy Water Tube Boiler Co., Providence, R. I.
 Atlas Engine Works, Indianapolis, Ind.
 Aurora Boiler Works, Aurora, Ill.
 Babcock & Wilcox Co. ("Stirling" & "Cahall"), 85 Liberty, New York
 Baltimore Ship Building & Dry Dock Co. ("Zell"), Baltimore, Md.
 Bass Foundry & Machine Co., Ft. Wayne, Ind.
 Bath Iron Works ("Normand"), Bath, Me.
 Bigelow Co. ("Bigelow-Hornsby"), New Haven, Conn.
 Birmingham Boiler Works, Birmingham, Ala.
 Brennan, John & Co., 24th & Toledo, Detroit, Mich.
 Broomell, Schmidt & Steacy Co. ("American" Combination), York, Pa.
 Casey & Hedges Co., Chattanooga, Tenn.
 Coatesville Boiler Works ("Parker"), Coatesville, Pa.
 Crowley & Maino, Jackson, Mich.
 Dearing Water Tube Boiler, 555 Grand River av, Detroit, Mich.
 Detroit Screw Works ("Taylor's" Water Tube), 346 Franklin, Detroit, Mich.
 Dubois Iron Works, Dubois, Pa.
 East End Boiler Works ("Detroit"), Detroit, Mich.
 Edge Moor Iron Co., Edge Moor, Del.
 Ehrsam, J. B. & Sons Mfg. Co., Enterprise, Kans.
 Erie City Iron Works, Erie, Pa.
 Erie Engine Works, Erie, Pa.
 Fore River Ship Building Co. (Marine), Quincy, Mass.
 Franklin Boiler Works Co. ("Franklin"), Troy, N. Y.
 Freeman, S. & Sons Mfg. Co., 12 Lakeside av, Racine, Wis.
 Gas Engine & Power Co., & C. L. Seabury & Co. (Seabury Safety, Marine & Stationary), Morris Heights, N. Y.
GEARY WATER TUBE BOILER, 39
 Cortlandt, New York, & Oil City, Pa. (See adv. opp. preceding page)
 Goss Engineering Co., 203 Dearborn, Chicago, Ill.
 Hammond Iron Works, Warren, Pa.
 Harrisburg Mfg. & Boiler Co. ("Star"), Harrisburg, Pa.
 Heine Safety Boiler Co., 421 Olive, St. Louis, Mo., & Phoenixville, Pa.
 Herreshoff Mfg. Co. (Herreshoff Patent), Bristol, R. I.
 Holyoke Steam Boiler Works, Holyoke, Mass.
 Hyde Bros. & Co. ("Hyde"), Empire bldg, Pittsburgh, Pa.
 Jackson-Church Co. ("McGregor," "Jackson"), Saginaw, Mich.
 Keeler, E. Co., Williamsport, Pa.
 Kingsford Fdry & Mach Works, Oswego, N. Y.
 Kingsley Water Tube Boiler Co. (Internally Fired), 21 State, New York
 McCarthy, F. P. & Son, Memphis, Tenn.
 McNeil Boiler Co. ("Cook," up to 250 H. P.), Akron, O.
 Marine Iron Works, Clybourn & Southport avs, ft of C, Chicago, Ill.
 Meehan Boiler & Constr'n Co., Lowellville, O.
 Minton, R., 119 Summer, E. B., Boston, Mass.
 Mohr, Jno. & Sons (Inc.), 32 Illinois, Chicago, Ill.
 Morrin-Climax Boiler Co. ("Climax"), 240 Loraine, Brooklyn, N. Y.
 Mosher Water Tube Boiler Co., 1 B'way, New York
 Mullen, John & Son, Shamokin, Pa.
 Munroe, R. & Sons, Corp., 23d & Smallman, Pittsburgh, Pa.
 Murray Iron Works Co., Burlington, Ia.
 National Boiler Works ("Maher's"), Bay City, Mich.
 New Orleans Boiler Works, New Orleans, La.
 New York Central Iron Works, Geneva, N. Y.
 New York Safety Steam Power Co. ("Worthington"), 114 Liberty, New York
 Niles Boiler Co., Niles, O.
 Nott Fire Engine Co. ("Nott"), Minneapolis, Minn.
 O'Brien, John Boiler Works Co., 11th & Mul-lanphy, St. Louis, Mo.
 O'Dougherty, Francis O. ("Economy"), 1875 Atlantic av, Brooklyn, N. Y.
 Ofeldt, F. W. & Sons (Small), Nyack, N. Y.
OIL CITY BOILER WORKS (Inc.)
 ("Geary"), Oil City, Pa., & 39 Cortlandt, New York. (See adv. index, end of book)
OIL WELL SUPPLY CO., 215 Water,
 Pittsburg, Pa. (See adv. index, end of book)
 Oswego Boiler & Engine Co., Oswego, N. Y.
 Parker Boiler Co. ("The Parker"), Pennsylvania bldg, Phila., Pa., & 220 B'way, New York
 Pfeiffer, Chrls. Boiler Co., 70 Michigan, Chicago, Ill.
 Phoenix Iron Works Co. ("Moyes"), Meadville, Pa.
 Platt Iron Works Co., Dayton, O.
 Racine Boat Mfg. Co. (Marine), Muskegon, Mich.
 Remington Machine Co., Wilmington, Del.

Ricard Boiler & Engine Co. ("The McNaull"), Toledo, O.
 Risdon Iron Works, Steuart c Folsom, San Francisco, Cal.
 Roberts Iron Works Co., Cambridge, Mass.
 Roberts Safety Water Tube Boiler Co., New York Works: Red Bank, N. J.
 Rust Boiler Co., Ger. B'k bldg, Pittsburg, Pa.
 Shapley & Wells, Binghamton, N. Y.
 Sharon Boiler Works ("Wheeler" Vertical), Sharon, Pa.
 Sherman, Morris Mfg. Co., Chattanooga, Tenn.
 Springfield Boiler & Mfg. Co., Springfield, Ill.
 Standard Safety Boiler Co. ("Horizontal" & "Vertical"), 355 Dearborn, Chicago, Ill.
 Works: Muskegon, Mich.
 Stearns Mfg. Co., Erie, Pa.
 Struthers-Wells Co., Warren, Pa.
 Sumner Iron Works, Everett, Wash.
 Taylor Water Tube Boiler Co. (for Yachts, Tugs, etc.), Detroit, Mich.
 Thorpe, Platt & Co. ("Thornycroft"), 99 Cedar, New York
 Tudor Boiler Mfg. Co. ("Lynn"), 716 E Pearl, Cincinnati, O.
 Union Iron Works, 222 Market, San Francisco, Cal.
 Vogt, Henry Machine Co., Louisville, Ky.
 Walsh & Weidner Boiler Co., Chattanooga, Tenn.
 Ward, Charles, Charlestown, W. Va.
 Wetherill, R. & Co. ("Ecrry"), Chester, Pa.
 White, Rob't Engineering Works ("Climax"), ft Columbia, Brooklyn, N. Y.
 Wickes Bros. (Vertical & Horizontal), Saginaw, Mich.
 Wildman Boiler Works, 1276 W 12th, Chicago, Ill.
 Wood, John Mfg. Co., Conshohocken, Pa.

Bolsters (Car Truck & Body)

(See Car Truck & Body Bolsters)

Bolt Clippers

(See Clippers, Bolt & Rivet.)

Bolt Cutters

(See Cutters, Bolt.)

Bolt Ends

(See Ends, Bolt)

Bolt Header & Shoeing Vise (Combined)

Wiley & Russell Mfg. Co. ("Green River"), Greenfield, Mass.

Bolt Headers

(See Machinery.)

Bolt Pointers

(See Machinery.)

Bolt Threaders

(See Machinery.)

Bolt Upsetters

(See Machinery.)

Bolt & Nut & Rivet Mfrs.

(See also sub-classifications of Bolts; also of Nuts; also of Rivets; also of Screws; also of Washers)

ALABAMA.

BIRMINGHAM—American Bolt Co.
 Republic Iron & Steel Co. (Bolts, Nuts, Rivets, Screws & Washers), Main Office, Chicago, Ill.

CALIFORNIA.

SAN FRANCISCO—California Bolt Works (Bolts, Nuts & Washers), 119 Beale
 Judson Mfg. Co., Howard & Beale
 Pacific Rolling Mill Co., 519 Mission
 Payne's Bolt Works (Bolts, Screws, Washers, etc.), 121 Howard

COLORADO.

DENVER—Colorado Fuel & Iron Co. (Bolts, Nuts, etc.)

CONNECTICUT.

BRIDGEPORT—Bridgeport Brass Co. (Brass Rivets, etc.)

Swinerton & Sniffen Mfg. Co., 1517 Wood av
HARTFORD—Hartford Machine Screw Co. (Bolts), 476 Capitol av

MARION—Frost, L. D. (Est. of)

MILDALE—Clark Bros. Bolt Co. (Bolts & Nuts)
MOUNT CARMEL—Mount Carmel Bolt Co. (Bolts, Nuts & Rivets)

NEW BRITAIN—Corbin Screw Corporation (Bolts, etc.)

NEW HAVEN—American Rivet Co. (Rivets),
Cowles, C. & Co. (Bolts) 30 Webster
Reynolds & Co. (Bolts, Nuts, etc.), 321
Sargent & Co. (Bolts, etc.) East

SEYMOUR—New Haven Copper Co. (Copper Sheets, etc.)

SHELTON—Bassett, D. M. (Bolts)
Shelton Co. (Bolts, etc.)

SOUTHINGTON—Aetna Nut Co. (Nuts & Washers)

TORRINGTON—Coe Brass Mfg. Co. (Rivets)
Progressive Mfg. Co. (Rivets, etc.)

UNIONVILLE—Union Nut & Bolt Co. (Nuts, Bolts, etc.)

Upton Nut Co. (Bolts, Nuts, Rivets, etc.)

WATERBURY—Beuedict & Burnham Mfg. Co. (Copper)

Blake & Johnson (Special Rivets, etc.)
Holmes, Booth & Haydens (C. Rivets, etc.)

Steele & Johnson Mfg. Co. (Bolts, etc.)
Waterbury Brass Co. (Brass & Copper Rivets)

Waterbury Mfg. Co. (Rivets) & Washers)

WINSTED—MOORE, FRANKLIN CO. (Bolts, Nuts, etc.) (See adv. index, end of book)

Richards, T. C. Hardware Co. (Bolts, Nuts, & Rivets)

ILLINOIS.

CHICAGO—American Screw Co. (Bolts, Rivets, etc.), 19 Lake

Continental Bolt & Iron Works (Bolts, etc.), 22d & Union

Illinois Steel Co. (Track Bolts), The Rookery

MARSEILLES—Moore, Joshua (Bolts)

ROCK FALLS—Cobb & Drew (Small Bolts, Rivets, etc.)

MARYLAND.

BALTIMORE—Balto. Bolt & Iron Wks. (Bolts & Nuts), 361 North

NATIONAL SUPPLY CO. (Bolts, Nuts & Washers), 7 W. Lombard. (See adv. index, end of book)

MASSACHUSETTS.

BOSTON—Boston Bolt Co. (Bolts, Nuts, Rivets, etc.), 284 Franklin

Metropolitan Bolt Co. (Bolts, etc.), 367 Congress

New England Bolt & Nut Co. (Bolts, Rivets & Washers), 265 Atlantic av

New England Screw Co., Sudbury bldg.

Standard Rivet Co., 41 Lincoln

Sylvester Co. (Bolts, Spikes, etc.), 70 Kilby

Tubular Rivet & Stud Co. (Rivets), 87 Lincoln

PLYMOUTH—Cobb & Drew (Small Bolts, Rivets, etc.)

Plymouth Mills (Rivets & Washers)

TAUNTON—Taunton Rivet Co. (Rivets & Washers)

WORCESTER—McCloud, Crane & Minter Co. (Bolts, Nuts, etc.)

Reed & Prince Mfg. Co. (Bolts, Nuts & Rivets)

Smith, Thos. & Co. (Bolts, Nuts & Washers)

MICHIGAN.

DETROIT—ANDERSON FORGE & MACHINE Co. (Bolts), 271 Guoin. (See adv. index, end of book)

Detroit Copper & Brass Rolling Mills (Rivets), McKinstry av & Wabash R. R.

Michigan Bolt & Nut Works (Bolts, Nuts, Rivets & Washers), ft Meldrum av

MISSOURI.

KANSAS CITY—Kansas City Bolt & Nut Co. (Bolts, Nuts, Rivets & Washers), Inde av

ST. LOUIS—Moran Bolt & Nut Mfg. Co. (Bolts, Nuts, Rivets, Screws & Washers), c Bristol

St. Louis Screw Co. (Bolts, Nuts, etc.), c Florida & Main

600 E Clarence

NEW JERSEY.

JERSEY CITY—Ames, W. & Co. (Bolts)

NEW YORK.

BUFFALO—Niagara Screw Co. (Bolts, Nuts & Screws), 20 Lock

Wurtz & Son, 23 Lloyd

NEW YORK CITY.**Borough of Brooklyn.**

BROOKLYN—Upham, V. B. & Bro. (Rivets), John c Hudson av

Boroughs of Manhattan & Bronx

NEW YORK—Falls Rivet & Machine Co., 208 Fulton

FARRINGTON, H. (Farrington Expansion Bolts), 45 B'way. (See adv. index, end of book)

Gaskell, Wm. & Son (Bolts), 433 E 25th

Greenlie, Wyatt & Co. (Bolts, Nuts, Rivets & Washers), 499 Water

Hall's, Samuel Sons (Bolts, Screws & Washers), 229 W 10th

Republic Iron & Steel Co. (Bolts, Nuts, Rivets, Screws & Washers), Manhattan

Sargent & Co. (Bolts), New Haven, Conn., & 94 Centre, New York

Scranton Bolt & Nut Co., 90 West

STAR EXPANSION BOLT CO. ("Star" Expansion Bolts), 147 Cedar. (See adv. index, end of book)

(END OF NEW YORK CITY)

NORTH TONAWANDA—Buffalo Bolt Co.

PORT CHESTER—Russell, Burdall & Ward Bolt & Nut Co. (Bolts, Nuts & Washers)

ROCHESTER—Rochester Machine Screw Co. (Nuts, etc.), 15 Caledonia av

ROME—Rome Brass & Copper Co. (Copper Rivets & Washers, etc.)

SYRACUSE—Central City Bolt Co. (Bolts, Nuts & Screws), 1620 N Salina

THROOPSVILLE—Myer & Co. (Nuts & Washers)

TROY—Burden Iron Co. (Rivets)

OHIO.

BEREA—Ohio Nut & Bolt Co.

CINCINNATI—Cincinnati Screw & Tap Co. (Bolts, etc.), 2442 Beekman

Republic Iron & Steel Co. (Bolts, Nuts, Rivets, Screws & Washers), Traction bldg

CLEVELAND—Atlas Bolt & Screw Co. (Bolts, Nuts, Rivets, Screws, etc.), Marquette,

Bettcher Mfg. Co. (Bolts, Nuts & Washers), opp Hamilton

Bourne & Knowles Mfg. Co. (Nuts, Rivets & Washers), 1231 Main av, N W

Champion Rivet Co. (Rivets), Union str at Erie R. R.

Cleveland Bolt & Mfg. Co. (Bolts, Carriage, "North Patent")

Cleveland Cap Screw Co. (Bolts, Screws, etc.), 66 Clarkwood av.

Cleveland City Forge & Iron Co. (Nuts), 67 Case av

Kirk-Latty Mfg. Co. (Bolts, Nails, Rivets, Screws, etc.), Malcolm, at Nickel Plate

Lake Erie Iron Co. (Bolts, Nuts & Washers), Wade bldg

Lamson & Sessions Co. (Bolts, Nuts & Rivets), 2188 Scranton rd, S W

National Screw & Tack Co. (Bolts, Nuts & Rivets), Stanton & C. & P. R. R.

Republic Iron & Steel Co. (Bolts, Nuts, Rivets, Screws & Washers), Citizens Bank bldg

Union Steel Screw Co. ("North" Bolts), Payne av & E 40th

Upton Nut Co. (Bolts, Nuts & Rivets), C. C. & St. L. Ry. nr Scranton av

COLUMBUS—Berry Bros. (Bolts, Nuts & Rivets) Capital Lock Nut & Washer Co.

Columbus Bolt Works (Bolts, Nuts, Rivets, Screws & Washers)

Lanman, E. B. Co. (Carriage Nuts & Washers)

CUYAHOGA FALLS—Falls Rivet & Machine Co.

ELYRIA—Western Automatic Machine Screw Co. (Bolts, Nuts, etc.)

YOUNGSTOWN—Youngstown Mfg. Co.

PENNSYLVANIA.

GLASSPORT—Severance, G. Mfg. Co.

LANCASTER—Penn Iron Co. (Ltd.) (Bolts & Nuts)

LEBANON—American Iron & Steel Mfg. Co. (Bolts, Nuts, Rivets & Washers)

MILTON—Milton Mfg. Co. (Bolts, Nuts & Washers)

NEW CASTLE—New Castle Forge & Bolt Co. (Bolts & Rivets.)

NORRISTOWN—American Equipment Co. Reading Screw Co. (Stove & Fire Bolts)

PHILADELPHIA—Cambria Steel Co. (Bolts) Arcade bldg

Haydon, A. & M., 304 N 22d

Hoopes & Townsend Co. (Bolts, Nuts, Rivets, Screws & Washers), 1330 Button-

Kurrie Bros. Co., 637 N Watts wood

National Bolt Works, 1630 N 9th

Philadelphia Machine Screw Works (Bolts, Etc.), 624 Race

Skelly, Thos. P. & Co. (Bolts), 24th, below Callowhill

PITTSBURG—Flannery Bolt Co., Frick bldg

Garland Nut & Rivet Co., Bailey-Farrell bldg

Graham Nut Co., W Carson nr Point bridge

Hubbard & Co. (Bolts, Nuts, etc.)

Hussey, C. G. & Co. (Rivets, Copper), 2850 2d av

Lanz, M. & Sons (Bolts, Nuts, Rivets & Washers), Carson & 29th

National Bolt & Nut Co., 62d & A. V. R. R.

Neely Bolt & Nut Co. (Ltd.), (Bolts, Nuts, Washers, etc.)

Oliver Iron & Steel Co. (Bolts, Nuts, Rivets, Screws & Washers), S. 10th & Muriel

Pittsburg Forge & Iron Co. (Bolts, etc.), 1003 Penna av

Pittsburg Mfg. Co. (Bolts, Nuts, Rivets & Washers), 28th & A. V. Ry

Pittsburg Rivet Co., 3200 Penn av

Pittsburg Screw & Bolt Co. (Bolts, Nuts & Rivets), 25th & Liberty av

Republic Iron & Steel Co. (Bolts, Nuts, Rivets, Screws & Washers), Frick bldg Annex

SCAIFE, WM. B. & SONS CO. (Bolts & Rivets), 221 1st av. (See adv. index, end of book)

POTTSVILLE—Pottsville Bolt Co. (Bolts & Screws)

READING—American Iron & Steel Mfg. Co.

SCRANTON—Scranton Bolt & Nut Co. (Bolts, Nuts, Rivets, Screws & Washers)

PAWTUCKET—Haskell, Wm. H. Mfg. Co. (Bolts, Nuts, Screws & Washers)

Pawtucket Mfg. Co. (Bolts, Screws, etc.)

PROVIDENCE—American Screw Co. (Bolts, Nuts & Rivets), 21 Stevens

Eastern Bolt & Nut Co., P. O. Box 883

Rhode Island Tool Co. (Bolts, Nuts & Washers)

Rogers Screw Co., 623 Atwelis av

VIRGINIA.

RICHMOND—Old Dominion Iron & Nail Works Co. (Bolts, Rivets, etc.)

Tredegart Co. (Bolts, Spikes, etc.)

WEST VIRGINIA.

WHEELING—Hazel Atlas Glass Co. (Bolts, Nuts & Washers)

WISCONSIN.

MILWAUKEE—Elastic Nut & Bolt Co., Russell av c Superior

Milwaukee Tack Co. (Rivets), Wahl c 27th av

When writing to firms listed in this book please mention HENDRICKS' COMMERCIAL REGISTER

Bolt & Screw Cases

American Bolt & Screw Case Co., Dayton, O.
index, end of book
Green, A. H. Co., 22 Park row, New York
Heller, W. C. Co., Montclair, N. J.
Warren, J. D. Mfg. Co., Masonic Temple, Chicago, Ill.

Bolt & Shield (Expansion)

Haskell, Wm. H. Mfg. Co., Pawtucket, R. I.
N. J. Foundry & Machine Co. (Diamond), 9
Murray, New York

*Bolters (Universal)

ALLIS-CHALMERS CO. (with Vibromotor Drive), Milwaukee, Wis. (See adv. index & branch offices, end of book)

Bolting Cloth

(See also Wire Cloth.)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

Buffalo Weaving Co. (Webs), Buffalo, N. Y.
ESTEY WIRE WORKS CO., 59 Fulton, New York. (See adv. index, end of book)

Hammond-Homberger Co., Silver Creek, N. Y.
Howard & Morse (Wire), 45 Fulton, New York
Latimer, R. L. & Co., 31 N Front, Phila., Pa.
MICHIGAN WIRE CLOTH CO., 500 Howard, Detroit, Mich. (See adv. index, end of book)

Nordyke & Marmon Co. (Silk & Wire), Indianapolis, Ind.
Sprout, Waldron & Co. (Silk & Wire), Muncy, Pa.
Starr, B. F. Co. (Swiss Silk), 455 North, Baltimore, Md.
Tobler & Co. ("Dufour" Silk), 35 S William, New York

Bolts (Anchor)

Church, Isaac, Toledo, O.
FARRINGTON, H. (Expansion), 45 B'way, New York. (See adv. index, end of book)
Lanz, M. & Sons, Carson & 29th, Pittsburg, Pa.
Penna. Iron Co., Lancaster, Pa.
Variety Mfg. Co. (of all kinds, etc.), Sacramento & Carroll av, Chicago, Ill.

Bolts (Barn Door)

Arcade Mfg. Co., Freeport, Ill.
Enterprise Mfg. Co., 3d & Dauphin, Phila., Pa.
Peck, Stow & Wilcox Co., Southington, Conn.
Sargent & Co., New Haven, Conn., & 94 Centre, New York

Bolts (Barrel)

Griffin Mfg. Co. (Wrought Steel), Erie, Pa.
National Novelty Corporation, 826 B'way, New York

NATIONAL SUPPLY CO., 7 W. Lombard, Baltimore, Md. (See adv. index, end of book)

New England Bolt & Nut Co., 267 Atlantic av, Boston, Mass.

Peck, Stow & Wilcox Co., Southington, Conn.
Penn Hardware Co., Reading, Pa.
Reading Hardware Co., Reading, Pa.
Sargent & Co., 94 Centre, New York, & New Haven, Conn.

Shelby Spring Hinge Co. (Wrought Steel), Shelby, O.

STANLEY WORKS (Wrought Steel), New Britain, Conn., & 79 Chambers, New York. (See adv. index, end of book)

Bolts (Belt or Elevator)

American Iron & Steel Mfg. Co., Lebanon, & Reading, Pa.
American Screw Co., Providence, R. I., & 19 Lake, Chicago, Ill.

Central City Bolt Co., Syracuse, N. Y.
Clark Bros. Bolt Co. (Elevator), Milldale, Conn.
Clark, W. J. Co., Salem, Ohio.

Columbia Screw Co., 106th & Cottage Grove av, Chicago, Ill.

Columbus Bolt Works, Columbus, O.
Haskell, Wm. H. Mfg. Co., Pawtucket, R. I.
Hoopes & Townsend Co., 1330 Buttonwood, Phila., Pa.

Lake Erie Iron Co. (Elevator), Wade bldg., Cleveland, O.
Lamson & Sessions Co., Cleveland, O.
Moore & Lorenz Co. (Elevator), 816 Fulton, Chicago, Ill.
Moran Bolt & Nut Mfg. Co., Florida c Main, St. Louis, Mo.
New England Bolt & Nut Co., 267 Atlantic av, Boston, Mass.
Oliver Iron & Steel Co., Pittsburg, Pa.
Pawtucket Mfg. Co., Pawtucket, R. I.
Rockford Bolt Works, Rockford, Ill.
Smith, Thos. & Co., Worcester, Mass.
Union Nut & Bolt Co., Unionville, Conn.

Bolts (Bicycle)

Clark Bros. Bolt Co., Milldale, Conn.
Columbus Bolt Works, Columbus, O.
National Screw & Tack Co., Cleveland, O.
Russell, Burdall & Ward Bolt & Nut Co., Port Chester, N. Y.
St. Louis Screw Co., 600 E. Clarence, St. Louis, Mo.

Bolts (Boiler Patch)

American Iron & Steel Mfg. Co., Lebanon & Phila., Pa.
Cincinnati Screw & Tap Co., 2442 Beekman, Cincinnati, O.
Corbin Screw Corporation, New Britain, Conn.
Hall's, Samuel Sons., 229 W 10th, New York
Haskell, Wm. H. Mfg. Co., Pawtucket, R. I.
Hoopes & Townsend Co., 1330 Buttonwood, Phila., Pa.

Lake Erie Iron Co., Wade bldg., Cleveland, O.
Moran Bolt & Nut Mfg. Co., St. Louis, Mo.
Niagara Screw Co., Buffalo, N. Y.
Oliver Iron & Steel Co., Pittsburg, Pa.
Pawtucket Mfg. Co., Pawtucket, R. I.
Pittsburg Screw & Bolt Co., Pittsburg, Pa.
Scranton Bolt & Nut Co., Scranton, Pa.
St. Louis Screw Co., 600 E Clarence, St. Louis, Mo.
Standard Screw Co., 2 N Canal, Chicago, Ill.

Bolts (Boiler Stay)

American Iron & Steel Mfg. Co., Lebanon, & Reading, Pa.
Haskell, Wm. H. Mfg. Co., Pawtucket, R. I.
Lake Erie Iron Co., Wade bldg., Cleveland, O.
Lanz, M. & Sons, Carson & 29th, Pittsburg, Pa.
Lockhart Iron & Steel Co., McKees Rocks, Pa.
Michigan Bolt & Nut Works, Detroit, Mich.
Moran Bolt & Nut Mfg. Co., St. Louis, Mo.
National Supply Co., Baltimore, Md.
Republic Iron & Steel Co., Frick bldg Annex, Pittsburg, Pa.
Rockford Bolt Works, Rockford, Ill.
Walker & Ehrman Mfg Co., 127 W Wash'n, Chicago, Ill.

Bolts (Brass & Copper)

Columbia Screw Co., 106th & Cottage Grove av, Chicago, Ill.
Haskell, Wm. H. Mfg. Co., Pawtucket, R. I.
Hendricks Bros. (Copper only), 49 Cliff, N. Y.
HUNGERFORD, U. T., BRASS & COPPER CO., 497 Pearl, New York
NATIONAL SUPPLY CO., 7 W. Lombard, Baltimore, Md. (See adv. index, end of book)
New Haven Copper Co. (Copper), Seymour, Conn. & 114 Chambers, N. Y.
Pawtucket Mfg. Co., Pawtucket, R. I.
Peck, Stow & Wilcox Co., Southington, Conn.
Phosphor Bronze Smelting Co., (Ltd.), 2200 Wash'n av, Phila., Pa.
Reading Hardware Co. (Brass), Reading, Pa.
Taunton-New Bedford Copper Co. (Yellow Metal only), New Bedford, & Taunton, Mass.

Bolts (Bridge & Structural)

American Equipment Co., Norristown, Pa.
American Iron & Steel Mfg. Co., Lebanon, & Reading, Pa.
Boston Bolt Co., 284 Franklin, Boston, Mass.
Central City Bolt Co., Syracuse, N. Y.
Colorado Fuel & Iron Co., Denver, Colo.
Columbus Bolt Works, Columbus, O.
Continental Bolt & Iron Works, 22d & Union, Chicago, Ill.
Gaskell, Wm. & Son, 433 E 25th, New York
Graham Nut Co., W Carson nr Point bridge, Pittsburg, Pa.
Haskell, Wm. H. Mfg. Co., Pawtucket, R. I.
Hoopes & Townsend Co., 1330 Buttonwood, Phila., Pa.

Judson Mfg. Co., San Francisco, Cal.
Kansas City Bolt & Nut Co., Kansas City, Mo.
Lake Erie Iron Co., Wade bldg., Cleveland, O.
Lanz, Mathew & Sons, 101 S 29th, Pittsburg, Pa.
McGookin, D. H. & Co., 1630 N 9th, Phila., Pa.
Michigan Bolt & Nut Works, Detroit, Mich.
Moran Bolt & Nut Mfg. Co., St. Louis, Mo.
National Bolt Works, 1630 N 9th, Phila., Pa.
NATIONAL SUPPLY CO., 7 W. Lombard, Baltimore, Md. (See adv. index, end of book)

New England Bolt & Nut Co., 267 Atlantic av, Boston, Mass.
Old Dominion Iron & Nail Works Co., Richmond, Va.

Oliver Iron & Steel Co., Pittsburg, Pa.
Pawtucket Mfg. Co., Pawtucket, R. I.
Pittsburg Forge & Iron Co., 1003 Penna. av, Pittsburg, Pa.

Pittsburg Mfg. Co., 28th & A. V. R. R., Pittsburg, Pa.
Republic Iron & Steel Co., Frick bldg Annex, Pittsburg, Pa.

Reynolds & Co., 321 East, New Haven, Conn.
SCAIFE, WM. B. & SONS CO., 221 1st av, Pittsburg, Pa. (See adv. index, end of book.)

Scranton Bolt & Nut Co., Scranton, Pa.
Simons & Sons, Spokane, Wash.
Smith, Thos. & Co., Worcester, Mass.
Sylvester Co., 70 Kilby, Boston, Mass.
Union Bolt & Nut Co., Unionville, Conn.
Upson Nut Co., Unionville, Conn., and Cleveland, O.
Wurtz & Son, 23 Lloyd

Bolts (Bronze)

(See Bolts, Brass & Copper.)

Bolts (Car)

American Iron & Steel Mfg. Co., Lebanon, & Reading, Pa.
Capital Lock Nut & Washer Co., Columbus, O.
Continental Bolt & Iron Works, 22d & Union, Chicago, Ill.
Hoopes & Townsend Co., 1330 Buttonwood, Phila., Pa.
Lake Erie Iron Co., Wade bldg., Cleveland, O.
Lanz, Mathew & Sons, 101 S 29th, Pittsburg, Pa.

Michigan Bolt & Nut Works, Detroit, Mich.
Moran Bolt & Nut Mfg. Co., Florida c Main, St. Louis, Mo.
NATIONAL SUPPLY CO., 7 W. Lombard, Baltimore, Md. (See adv. index, end of book)

Old Dominion Iron & Nail Works Co., Richmond, Va.
Oliver Iron & Steel Co., Pittsburg, Pa.
Pottsville Bolt Co., Pottsville, Pa.
Scranton Bolt & Nut Co., Scranton, Pa.
Smith, Thos. & Co., Worcester, Mass.
Youngstown Mfg. Co., Youngstown, O.

Bolts (Carriage)

American Iron & Steel Mfg. Co., Lebanon & Reading, Pa.

Atlas Bolt & Screw Co., Cleveland, O.
Bassett, D. M. Bolt Works, Shelton, Conn.
Berry Bros., Columbus, O.
Buffalo Bolt Co., North Tonawanda, N. Y.
Central City Bolt Co., Syracuse, N. Y.
Clark Bros. Bolt Co., Milldale, Conn.
Cold-Jess Mfg. Co., Cleveland, O.
Columbus Bolt Works (Common & "Eagle"), Columbus, O.

Cowles, C. & Co., New Haven, Conn.
Falls Rivet & Machine Co., Cuyahoga Falls, O.
Frost, L. D. (estate of), Marlon, Conn.
Garland Nut & Rivet Co., Pittsburg, Pa.
Hazel Atlas Glass Co., Wheeling, W. Va.
Hoopes & Townsend Co., 1330 Buttonwood, Hubbard & Co., Pittsburg, Pa. Phila., Pa.
Kansas City Bolt & Nut Co., Kansas City, Mo.
Kirk-Latty Mfg. Co., Malcolm at Nickel Plate R. R., Cleveland, O.
Lake Erie Iron Co., Wade bldg., Cleveland, O.
Lamson & Sessions Co., 2188 Scranton rd, S W, Cleveland, O.
Lanz, Mathew & Sons, 101 S 29th, Pittsburg, Pa.

Michigan Bolt & Nut Works, Detroit, Mich.
Milton Mfg. Co., Milton, Pa.

MOORE, FRANKLIN CO., Winsted, Conn. (See adv. index, end of book)
Moran Bolt & Nut Mfg. Co., Florida c Main, St. Louis, Mo.
National Screw & Tack Co., Cleveland, O.
NATIONAL SUPPLY CO., 7 W. Lombard, Baltimore, Md. (See adv. index, end of book)

Neely Nut & Bolt Co., S 22d & P. & L. R. R.,
Pittsburg, Pa.
New Castle Forge & Bolt Co., New Castle, Pa.
New England Bolt & Nut Co., 267 Atlantic av.,
Boston, Mass.
Oliver Iron & Steel Co., Pittsburg, Pa.
Payne's Bolt Works, 121 Howard, San Francisco, Cal.
Peck, Stow & Wilcox Co., Southington, Conn.
Republic Iron & Steel Co., Frick bldg Annex,
Pittsburg, Pa.
Scranton Bolt & Nut Co., Scranton, Pa.
Shelton Co., Shelton, Conn.
Skelly, Thos. P. & Co., 24th, below Callowhill,
Phila., Pa.
Union Steel Screw Co. ("North" Ribbed Body),
Payne av & E 40th, Cleveland, O.
Upson Nut Co., Unionville, Conn., & Cleveland,
Wilson & Smith, Worcester, Mass.

Bolts (Collar)

American Iron & Steel Mfg. Co., Lebanon, &
Reading, Pa.
Columbia Screw Co., 106th & Cottage Grove
av, Chicago, Ill.
Corbin Screw Corporation, New Britain, Conn.
Hall's, Samuel Sons, 229 W 10th, New York
Michigan Bolt & Nut Works, ft Meldrum av,
Detroit, Mich.
Old Dominion Iron & Nail Works Co., Richmond, Va.
Oliver Iron & Steel Co., Pittsburg, Pa.
Rhode Island Tool Co., Providence, R. I.
Scranton Bolt & Nut Co., Scranton, Pa.
Western Automatic Machine Screw Co., Elyria, O.

Bolts (Copper Soldering)

Ansonia Brass & Copper Co., 99 John, N. Y.
Works, Ansonia, Conn.
Clendenin Bros., Baltimore, Md.
Diamond Mfg. Co., Detroit, Mich.
New Haven Copper Co., Seymour, Conn.
Peck, Stow & Wilcox Co., Southington, Conn.
Taunton-New Bedford Copper Co., Taunton,
Mass., & New Bedford, Mass.

Bolts (Countersunk)

American Iron & Steel Mfg. Co., Lebanon, &
Reading, Pa.
Capital Lock Nut & Washer Co., Columbus, O.
Columbus Bolt Works, Columbus, O.
Garland Nut & Rivet Co., Pittsburg, Pa.
Hall's, Samuel Sons, 229 W 10th, New York
Kansas City Bolt & Nut Co., Kansas City, Mo.
Lamson & Sessions Co. (Round Head, etc.),
2188 Scranton rd, S W, Cleveland, O.
Lanz, Matthew & Sons, 101 S 29th, Pittsburg, Pa.
Michigan Bolt & Nut Works, Detroit, Mich.
MOORE, FRANKLIN CO., Winsted,
Conn. (See adv. index, end of book)
Moran Bolt & Nut Mfg. Co., St. Louis, Mo.
Mount Carmel Bolt Co., Mount Carmel, Conn.
NATIONAL SUPPLY CO., 7 W. Lombard,
Baltimore, Md. (See adv. index, end of book)
Old Dominion Iron & Nail Works Co., Richmond, Va.
Oliver Iron & Steel Co., Pittsburg, Pa.
Republic Iron & Steel Co., Frick bldg Annex,
Pittsburg, Pa.
Rhode Island Tool Co., Providence, R. I.
Scranton Bolt & Nut Co., Scranton, Pa.

Bolts (Coupling)

American Iron & Steel Mfg. Co., Lebanon, &
Reading, Pa.
Chicago Screw Co., 2 N Canal, Chicago, Ill.
Cincinnati Screw & Tap Co., 2442 Beekman,
Cincinnati, O.
Cleveland Cap Screw Co., 66 Clarkwood av,
Cleveland, O.
Haskell, Wm. H. Mfg. Co. (nut, tapped, etc.),
Pawtucket, R. I.
Kansas City Bolt & Nut Co., Kansas City, Mo.
Lake Erie Iron Co., Wade bldg., Cleveland, O.
McCloud, Crane & Minter Co., Worcester, Mass.
Niagara Screw Co., Buffalo, N. Y.
Oliver Iron & Steel Co., Pittsburg, Pa.
Pawtucket Mfg. Co., Pawtucket, R. I.
Pittsburg Screw & Bolt Co., 25th & Liberty
av, Pittsburg, Pa.
Reynolds & Co. (Milled), 321 East, New Haven
Conn.
Rhode Island Tool Co. (Milled Hexagon Heads
& Nuts), Providence, R. I.

Russell, Burdsall & Ward Bolt & Nut Co., Port
Chester N. Y.
Scranton Bolt & Nut Co., Scranton, Pa.
St. Louis Screw Co., St. Louis, Mo.
Upson Nut Co., Unionville, Conn., & Cleveland,
O.
Western Automatic Machine Screw Co., Elyria,
O.
Winsted-Norway Bolt Co., West Winsted, Conn.

Bolts (Cross Arm)

American Iron & Steel Mfg. Co. (Galvanized),
Lebanon, & Reading, Pa.
Capital Lock Nut & Washer Co., Columbus, O.
Columbus Bolt Works, Columbus, O.
Garland Nut & Rivet Co., Pittsburg, Pa.
Hoopes & Townsend Co., 1330 Buttonwood,
Phila., Pa.
Hubbard & Co., Pittsburg, Pa.
Lanz, M. & Sons, 101 S 29th, Pittsburg, Pa.
Michigan Bolt & Nut Works, ft Meldrum av,
Detroit, Mich.
Oliver Iron & Steel Co., Pittsburg, Pa.
Western Electric Co., 259 S Clinton, Chicago,
Ill., & 57 Bethune, New York

Bolts (Crown-Bar)

American Iron & Steel Mfg. Co., Lebanon, &
Reading, Pa.
Hoopes & Townsend Co., 1330 Buttonwood,
Phila., Pa.

Bolts (Door & Window)

Arcade Mfg. Co., Freeport, Ill.
Champion Safety Lock Co. (Mortise Door),
Geneva, O.
Corbin Cabinet Lock Co. (Double Door, etc.),
New Britain, Conn.
Griffin Mfg. Co., Erie, Pa.
Ives, Hobart B. Co., New Haven, Conn.
Norwalk Lock Co., So. Norwalk, Conn.
Peck, Stow & Wilcox Co., Southington, Conn.
Penn Hardware Co., Reading, Pa.
Peters, Jas. Sou (Fire Door), 1934 N Front,
Phila., Pa.
Reading Hardware Co., Reading, Pa.
Russell & Erwin Mfg. Co., New Britain, Conn.
Sargent & Co., New Haven, Conn., & 94 Centre,
New York
Sargeant & Greenleaf Co. ("The Gem"), 178
Court, Rochester, N. Y.
STANLEY WORKS (Wrought Steel),
New Britain, Conn., & 79 Chambers, N. Y.
(See adv. index, end of book.)
Taylor & Boggis Foundry Co., 521 Seneca,
Cleveland, O.

Bolts (Double End)

Lanz, M. & Sons, Carson & 29th, Pittsburg, Pa.

Bolts (Double Expansion, Hitching Rings)

(See Bolts, Expansion, Single & Double)

Bolts (Drift)

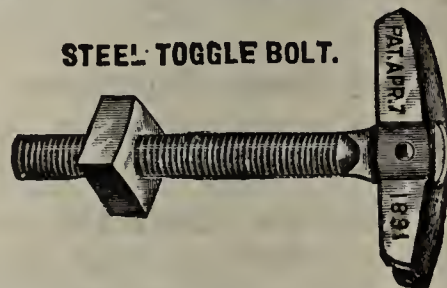
American Iron & Steel Mfg. Co., Lebanon, &
Reading, Pa.
ANDERSON FORGE & MACHINE CO.,
271 Guoin, Detroit, Mich. (See adv. index,
end of book)
Columbus Bolt Works, Columbus, O.
FARRINGTON, H., 45 B'way, New
York. (See adv. next column)
Hoopes & Townsend Co., 1330 Buttonwood,
Phila., Pa.
Kansas City Bolt & Nut Co., Kansas City, Mo.
Lanz, Matthew & Sons, 101 S 29th, Pittsburg,
Pa.
Michigan Bolt & Nut Works, ft Meldrum av,
Detroit, Mich.
Moran Bolt & Nut Mfg. Co., St. Louis, Mo.
NATIONAL SUPPLY CO., 7 W. Lombard,
Baltimore, Md. (See adv. index, end of book)
New Castle Forge and Bolt Co., New Castle,
Pa.
Old Dominion Iron & Nail Works Co., Richmond, Va.
Oliver Iron & Steel Co., Pittsburg, Pa.
Republic Iron & Steel Co., Frick bldg Annex,
Pittsburg, Pa.
Scranton Bolt & Nut Co., Scranton, Pa.
Severance, S. Mfg. Co., Pittsburg, Pa.

Bolts (Elevator)

(See Bolts, Belt & Elevator.)

PHILADELPHIA EXPANSION BOLT CO.

STEEL TOGGLE BOLT.



The Steward & Romaine Mfg. Co.

Manufacturers of Double and Single

EXPANSION AND TOGGLE BOLTS

For Fastening all kinds of Materials
to Stone and Brick Work.

124 NORTH SIXTH STREET,
PHILADELPHIA, PA.



N. HARPER STEWARD, Proprietor.

Bolts (Expansion)

Boones, Wm., Port Richmond, N. Y. City
Brohard Co., 1624 N 9th, Phila., Pa.
Church, Isaac, Toledo, O.
Diamond Expansion Bolt Co., 9 Murray, N. Y.
Evans, F. H. Co., 596 Kent av, Brooklyn, N. Y.
FARRINGTON, H., 45 B'way, New
York. (See adv. below)

Farrington Expansion Bolts



Pat. Dec. 5, 1905

The most secure
fastening in stone,
brick, concrete, etc.

For Electricians,
Plumbers, Steam fit-
ters, Concrete man-
ufacturers and ALL
trades requiring a
fastening that will
hold in hard mater-
ial.



**EXPANDS IN ALL DIRECTIONS
NOT LOOSENEED BY VIBRATION**

MADE OF BRASS FOR WOOD SCREWS AND OF
GALVANIZED IRON FOR LAG SCREWS.

SEND FOR SAMPLES

H. FARRINGTON,

45 Broadway, New York City

McCABE HANGER MFG. CO., 425 W.
25th, New York. (See adv. index, end
of book.)
N. J. Foundry & Machine Co., 9 Murray, N. Y.
PHILADELPHIA EXPANSION BOLT
Works, 124 N 6th, Philadelphia, Pa.
RICHARDS MFG. CO., Aurora, Ill.
(See adv. index & branch offices, end of book)
Seaman, A. C. 1638 Hutchinson, Phila., Pa.
STAR EXPANSION BOLT CO. ("Star"),
147 Cedar, New York. (See adv. below)
STEWART & ROMAINE MFG. CO.,
124 N 6th, Phila., Pa. (See adv. on preced-
ing page)
WILCOX MFG. CO., Aurora, Ill. (See
adv. index, end of book)

Bolts (Expansion Eye)

(See Bolts, Expansion.)

*Bolts (Expansion, for Concrete Work)

FARRINGTON, H., 45 B'way, New
York. (See adv. on preceding page)

*Bolts (Expansion, Single & Double)

FARRINGTON, H., 45 B'way, New
York. (See adv. on preceding page)
STAR EXPANSION BOLT CO. ("Star"),
147 Cedar, New York. (See adv. below)
STEWART & ROMAINE MFG. CO.,
124 N 6th, Phila., Pa. (See adv. on pre-
ceding page)

Bolts (Expansion Switch Board)

(See Bolts, Expansion)

Bolts (Eye)

(See Bolts, Hook & Eye.)

Bolts (Foundation)

American Iron & Steel Mfg. Co., Lebanon, &
Reading, Pa.
AMERICAN WELL WORKS, Aurora,
Ill. (See adv. index & branch offices, end
of book)
ANDERSON FORGE & MACHINE CO.,
271 Guoin, Detroit, Mich. (See adv. index,
end of hook)
Continental Bolt & Iron Works, 22d & Union,
Chicago
Fort Pitt Forge Co., 26th & Liberty, Pitts-
burgh, Pa.
Graham Nut Co., W Carson nr Point Bridge,
Pittsburg, Pa.
Hoopes & Townsend Co., 1330 Buttonwood,
Phila., Pa.
Kansas City Bolt & Nut Co., Kansas City, Mo.
Lanz, Matthew & Sons, 101 S 29th, Pittsburg,
Pa.
Metropolitan Bolt Co., 367 Congress, Boston,
Mass.
Michigan Bolt & Nut Works, ft Meldrum av,
Detroit, Mich.
Moran Bolt & Nut Mfg. Co., Florida, c Main,
St. Louis, Mo.
NATIONAL SUPPLY CO., 7 W. Lom-
bard, Baltimore, Md. (See adv. index, end
of hook)
New Castle Forge & Bolt Co., New Castle, Pa.
Old Dominion Iron & Nail Works Co., Richmond,
Va.
Oliver Iron & Steel Co., Pittsburg, Pa.
Penn Iron Co., Lancaster, Pa.
Pittsburg Forge & Iron Co., 1003 Penna. av,
Pittsburg, Pa.

Pittsburg Rivet Co., Pittsburg, Pa.
Pittsburg Screw & Bolt Co., Pittsburg, Pa.
Republic Iron & Steel Co., Frick bldg Annex,
Pittsburg, Pa.
Rhode Island Tool Co., Providence, R. I.
Scranton Bolt & Nut Co., Scranton, Pa.

Bolts (Hanger)

Clark Bros. Bolt Co., Milldale, Conn.
Lamson & Sessions Co., 2188 Scranton rd, S W,
Cleveland, O.
Pawtucket Mfg. Co., Pawtucket, R. I.
Reed & Prince Co., Worcester, Mass.
Scranton Bolt & Nut Co., Scranton, Pa.

Bolts (Harvey Grip)

American Iron & Steel Mfg. Co., Lebanon, &
Reading, Pa.
Kansas City Bolt & Nut Co., Kansas City, Mo.

Bolts (Hook Head)

American Iron & Steel Mfg. Co., Lebanon, &
Reading, Pa.
Berry Bros., E 1st av & R. R., Columbus, O.
Capital Lock Nut & Washer Co., Columbus, O.
Haskell, Wm. H. Mfg. Co., Pawtucket, R. I.
Lanz, Matthew & Sons, 101 S 29th, Pittsburg,
Pa.
Michigan Bolt & Nut Works, Detroit, Mich.
Mount Carmel Bolt Co., Mount Carmel, Conn.
Pittsburg Bolt & Screw Co., Pittsburg, Pa.
Russell, Burdsall & Ward Bolt & Nut Co., Port
Chester, N. Y.
Scranton Bolt & Nut Co., Scranton, Pa.

Bolts (Hook & Eye)

American Iron & Steel Mfg. Co., Lebanon, &
Reading, Pa.
ANDERSON FORGE & MACHINE CO.
(Special Eye), 271 Guoin, Detroit, Mich.
(See adv. index, end of book)
Billings & Spencer Co. (Galvanized Drop Forged
Eye), Hartford, Conn.
Capital Lock Nut & Washer Co., Columbus, O.
Central City Bolt Co., Syracuse, N. Y.
Clark Bros. Bolt Co., Milldale, Conn.
Columbus Bolt Works, Columbus, O.
Garland Nut & Rivet Co., Pittsburg, Pa.
Hall's, Samuel Sons (Forged), 229 W 10th, New
York
Haskell, Wm. H. Mfg. Co., Pawtucket, R. I.
Hazel Atlas Glass Co., Wheeling, W. Va.
Hoopes & Townsend Co., 1330 Buttonwood,
Phila., Pa.
Hubbard & Co. (Welded), Pittsburg, Pa.
Kansas City Bolt & Nut Co., Kansas City, Mo.
Keystone Drop Forge Works (Drop Forged),
Chester, Pa.
Lake Erie Iron Co., Wade hldg., Cleveland, O.
Lamson & Sessions Co., 2188 Scranton rd, S W,
Cleveland, O.
Lanz, Matthew & Sons, 101 S 29th, Pitts-
burgh, Pa.
Michigan Bolt & Nut Works, Detroit, Mich.
Moran Bolt & Nut Mfg., Florida, cor Main,
St. Louis
New Castle Forge & Bolt Co., New Castle, Pa.
New England Bolt & Nut Co., 267 Atlantic av,
Boston, Mass.
Oliver Iron & Steel Co., Pittsburg, Pa.
Pawtucket Mfg. Co., Pawtucket, R. I.
Republic Iron & Steel Co., Frick hldg Annex,
Pittsburg, Pa.
Rhode Island Tool Co. (Blank or Threaded
Steel Eye), Providence, R. I.
Sargent & Co., New Haven, Conn., & 94 Centre,
New York
Scranton Bolt & Nut Co., Scranton, Pa.
Smith, Thos. & Co. (Screw), Worcester, Mass.
STEWART & ROMAINE MFG. CO.,
124 N 6th, Phila., Pa. (See adv. on preced-
ing page)

Transue & Williams Co. (Drop Forged), Al-
liance, O.
Upson Nut Co., Unionville, Conn., & Clevel-
land, O.
Vaughn & Bushnell Mfg. Co. (Drop Forged
Eye), 875 W Carroll av, Chicago, Ill.
Willcox, D. Mfg. Co. (Drop Forged Eye), Me-
chanicsburg, Pa.
WILLIAMS, J. H. & CO. (Drop
Forged), 150 Hamilton av, Brooklyn, N. Y.
(See adv. index, end of hook)
Wire Goods Co., Worcester, Mass.

Bolts (Insulated)

Cutter, Geo. Co., 129 Fulton, Chicago, Ill.
Ohio Brass Co., Mansfield, O.

Bolts (Interlocking)

Bush Interlocking Bolt Co., Bullitt hldg, Phila-
delphia, Pa.

Bolts (Key)

American Iron & Steel Mfg. Co., Lebanon, &
Reading, Pa.
Continental Bolt & Iron Works, 22d & Union,
Chicago
Hoopes & Townsend Co., 1330 Buttonwood,
Phila., Pa.
Kansas City Bolt & Nut Co., Kansas City, Mo.
Kropp, A. & Co., 52 Law av, Chicago, Ill.
Lamson & Sessions Co., 2188 Scranton rd, S W,
Cleveland, O.
Michigan Nut & Bolt Works, Detroit, Mich.
Moran Bolt & Nut Mfg. Co., Florida & Main
St. Louis, Mo.
NATIONAL SUPPLY CO., 7 W. Lom-
bard, Baltimore, Md. (See adv. index, end
of book)
Old Dominion Iron & Nail Works Co., Rich-
mond, Va.
Oliver Iron & Steel Co., Pittsburg, Pa.
Rhode Island Tool Co., Providence, R. I.
Scranton Bolt & Nut Co., Scranton, Pa.

Bolts (Loom)

Clark Bros. Bolt Co., Milldale, Conn.
Garland Nut & Rivet Co., Pittsburg, Pa.
Haskell, Wm. H. Mfg. Co., Pawtucket, R. I.
Rhode Island Tool Co., Providence, R. I.
Upson Nut Co., Unionville, Conn., & Clevel-
land, O.

Bolts (Machine)

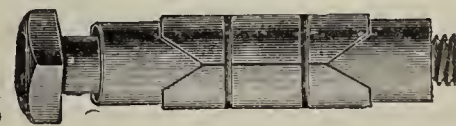
American Equipment Co., Norristown, Pa.
American Iron & Steel Mfg. Co., Lebanon, Pa.
Berry Bros., E 1st av & R. R., Columbus, O.
Boston Bolt Co., 284 Franklin, Boston, Mass.
Buffalo Bolt Co., North Tonawanda, N. Y.
Central City Bolt Co., Syracuse, N. Y.
Clark Bros. Bolt Co., Milldale, Conn.
Colorado Fuel & Iron Co., Denver, Colo.
Columbus Bolt Works, Columbus, O.
Continental Bolt & Iron Works, 22d & Union,
Chicago, Ill.
Corbin Screw Corporation, New Britain, Conn.
Dietrich Bros., 344 North, Baltimore, Md.
Elastic Nut & Bolt Co., Russell av & Superior,
Milwaukee, Wis.
Falls Rivet & Machine Co., Cuyahoga Falls, O.
Garland Nut & Rivet Co., Pittsburg, Pa.
Gaskell, Wm. & Son, 433 E 25th, New York
Greenlie, Wyatt & Co., 499 Water, New York
Hall's, Samuel Sons, 229 W 10th, New York
Haskell, W. H. Mfg. Co., Pawtucket, R. I.
Hoopes & Townsend Co., 1330 Buttonwood,
Phila., Pa.
Hubbard & Co., Pittsburg, Pa.
Kansas City Bolt & Nut Co., Kansas City, Mo.
Kirk-Latty Mfg. Co., Cleveland, O.

STAR EXPANSION BOLTS



FOR USE WITH

Lag Screws — Machine Bolts



Our Catalog shows all forms of Expansion Bolts and Screw Anchors.

STAR EXPANSION BOLT CO., 147-149 CEDAR STREET, NEW YORK CITY.

Lake Erie Iron Co., Wade bldg., Cleveland, O.
 Lamson & Sessions Co., 2188 Scranton rd, S W, Cleveland, O.
 Lanz, Matthew & Sons, 101 S 29th, Pittsburgh, Pa.
 McCloud, Crane & Minter, Worcester, Mass.
 Neely Nut & Bolt Co., S 22d & P. & L. R. R., Pittsburgh, Pa.
 Michigan Bolt & Nut Works, Detroit, Mich.
 Milton Mfg. Co., Milton, Pa.
 Moran Nut & Bolt Mfg. Co., Florida, c Main, St. Louis, Mo.
 National Screw & Tack Co., Cleveland, O.
NATIONAL SUPPLY CO., 7 W. Lombard, Baltimore, Md. (See adv. index, end of book)
 Neely Nut & Bolt Co., S 22d & P. & L. R. R., Pittsburgh, Pa.
 New Castle Forge & Bolt Co., New Castle, Pa.
 New England Bolt & Nut Co., 267 Atlantic av, Boston, Mass.
 Old Dominion Iron & Nail Works Co., Richmond, Va.
 Oliver Iron & Steel Co., Pittsburgh, Pa.
 Pawtucket Mfg. Co., Pawtucket, R. I.
 Penn Iron Co., Lancaster, Pa.
 Pittsburgh Forge & Iron Co., 1003 Penna. av, Pittsburgh, Pa.
 Pittsburgh Mfg. Co., 28th & A. V. R'y, Pittsburgh, Pa.
 Pittsburgh Rivet Co., Pittsburgh, Pa.
 Pittsburgh Screw & Bolt Co., Pittsburgh, Pa.
 Republic Iron & Steel Co., Frick bldg Annex, Pittsburgh, Pa.
 Reynolds & Co., 321 East, New Haven, Conn.
 Rhode Island Tool Co., Providence, R. I.
 Russell, Burdsall & Ward Bolt & Nut Co., Port Chester, N. Y.
 Scranton Bolt & Nut Co., Scranton, Pa.
 Smith, Thomas & Co., Worcester, Mass.
 Union Nut & Bolt Co., Unionville, Conn.
 Upson Nut Co., Unionville, Conn., & Cleveland, O.

Bolts (Neck)

National Screw & Tack Co. ("O. H. Fin"), Cleveland, O.
STANLEY WORKS (Wrought Steel), New Britain, Conn., & 79 Chambers, New York. (See adv. index, end of book.)

Bolts (North Patented)

Cleveland Bolt & Mfg. Co., Cleveland, O.

Bolts (Planer Head)

Chicago Screw Co., 2 N Canal, Chicago, Ill.
 Cincinnati Screw & Tap Co., 2442 Beekman, Cincinnati, O.
 Corbin Screw Corporation, New Britain, Conn.
 Niagara Screw Co., Buffalo, N. Y.
 Pittsburgh Screw & Bolt Co., Pittsburgh, Pa.
 Rhode Island Tool Co., Providence, R. I.
 Smith, Thos. & Co., Worcester, Mass.
 Western Automatic Machine Screw Co., Elyria, O.

Bolts (Plow)

American Iron & Steel Mfg. Co., Lebanon, & Reading, Pa.
 Clark Bros. Bolt Co., Milldale, Conn.
 Columbus Bolt Works, Columbus, O.
 Haskell, Wm. H. Mfg. Co., Pawtucket, R. I.
 Hoopes & Townsend Co., 1330 Buttonwood, Phila., Pa.
 Kansas City Bolt & Nut Co., Kansas City, Mo.
 Lake Erie Iron Co., Wade bldg., Cleveland, O.
 Lamson & Sessions Co., 2188 Scranton rd, S W, Cleveland, O.
 Michigan Bolt & Nut Works, Detroit, Mich.
 Moran Bolt & Nut Mfg. Co., Florida, c Main, St. Louis, Mo.
NATIONAL SUPPLY CO., 7 W. Lombard, Baltimore, Md. (See adv. index, end of book)
 Pawtucket Mfg. Co., Pawtucket, R. I.
 Republic Iron & Steel Co., Frick bldg Annex, Pittsburgh, Pa.
 Russell, Burdsall & Ward Bolt & Nut Co., Port Chester, N. Y.
 Smith, Thos. & Co., Worcester, Mass.
 Upson Nut Co., Unionville, Ct., & Cleveland, O.

Bolts (Screw & Nut Eye)

Wilcox, Crittenden & Co., Middletown, Conn.

Bolts (Shackle)

Clark Bros. Bolt Co., Milldale, Conn.
 Columbus Bolt Works, Columbus, O.
 Garland Nut & Rivet Co., Pittsburgh, Pa.

Lamson & Sessions Co., 2188 Scranton rd, S W, Cleveland, O.
MOORE, FRANKLIN CO., Winsted, Conn. (See adv. index, end of book)
 Russell, Burdsall & Ward Bolt & Nut Co., Port Chester, N. Y.

Bolts (Shaft)

Columbus Bolt Works (T Head Shaft), Columbus, O.
 Corbin Screw Corporation (Reverse Helicoid), New Britain, Conn.

Bolts (Shutter)

Peck, Stow & Wilcox Co., Southington, Conn.
 Penn Hardware Co., Reading, Pa.
 Reading Hardware Co., Reading, Pa.
 Russell & Erwin Mfg. Co., New Britain, Conn.
 Sargent & Co., New Haven, Conn., & 94 Centre, New York
STANLEY WORKS (Wrought Steel), New Britain, Conn., & 79 Chambers, N. Y. (See adv. index, end of book.)
 Wrightsville Hardware Co., Wrightsville, Pa.

Bolts (Sink)

American Screw Co., Providence, R. I., & 19 Lake, Chicago, Ill.
 Atlas Bolt & Screw Co. (Iron & Brass), Cleveland, O.
 Berry Bros., E 1st av & R. R., Columbus, O.
 Boston Bolt Co., 284 Franklin, Boston, Mass.
 Columbia Screw Co., Pullman, Chicago, Ill.
 Columbus Bolt Works, Columbus, O.
 Corbin Screw Corporation, New Britain, Conn.
 Falls Rivet & Machine Co., Cuyahoga Falls, O.
 Kirk-Latty Mfg. Co., Malcolm, at Nickel Plate R. R., Cleveland, O.
 Lamson & Sessions Co., 2188 Scranton rd, S W, Cleveland, O.
 Mount Carmel Bolt Co. (also Brass), Mt. Carmel, Conn.
 National Screw & Tack Co., Cleveland, O.
NATIONAL SUPPLY CO., 7 W. Lombard, Baltimore, Md. (See adv. index, end of book)
 New England Bolt & Nut Co., 267 Atlantic av, Boston, Mass.
 Reynolds & Co., 321 East, New Haven, Conn.
 Russell, Burdsall & Ward Bolt & Nut Co., Port Chester, N. Y.
 Shelton Co. (Iron & Brass), Shelton, Conn.
 Upson Nut Co., Unionville, Ct., & Cleveland, O.

Bolts (Sleigh Shoe)

Atlas Bolt & Screw Co., Marquette, opp Hamilton, Cleveland, O.
 Berry Bros., E 1st av & R. R., Columbus, O.
 Columbus Bolt Works, Columbus, O.
 Corbin Screw Corporation (Plain & Reverse Helicoid), New Britain, Conn.
 Falls Rivet & Machine Co., Cuyahoga Falls, O., & 208 Fulton, New York
 Lake Erie Iron Co., Wade bldg., Cleveland, O.
 Lamson & Sessions Co., 2188 Scranton rd, S W, Cleveland, O.
 Michigan Bolt & Nut Works, Detroit, Mich.
MOORE, FRANKLIN CO., Winsted, Conn. (See adv. index, end of book)
 Mount Carmel Bolt Co., Mount Carmel, Conn.
 Republic Iron & Steel Co., Frick bldg Annex, Pittsburgh, Pa.
 Russell, Burdsall & Ward Bolt & Nut Co., Port Chester, N. Y.
 Russell & Erwin Mfg. Co. (Helicoid), New Britain, Conn.

Bolts (Stove)

American Screw Co., Providence, R. I., & 19 Lake, Chicago, Ill.
 Atlas Bolt & Screw Co., Marquette, opp Hamilton, Cleveland, O.
 Berry Bros., Columbus, O.
 Boston Bolt Co., 284 Franklin, Boston, Mass.
 Central City Bolt Co., Syracuse, N. Y.
 Clark Bros. Bolt Co., Milldale, Conn.
 Clark Bros. & Co., Milldale, Conn., & 69 Dearborn, Chicago
 Cobb & Drew, Plymouth, Mass., & Rock Falls, Ill.
 Columbia Screw Co., 106th & Cottage Grove av, Chicago, Ill.
 Columbus Bolt Works, Columbus, O.
 Corbin Screw Corporation, New Britain, Conn.
 Falls Rivet & Machine Co., Cuyahoga Falls, O., & 208 Fulton, New York
 Fanner Mfg. Co., Pearl, Cleveland, O.
 Hazel Atlas Glass Co., Wheeling, W. Va.
 Kirk-Latty Mfg. Co., Cleveland, O.
 Lake Erie Iron Co., Wade bldg., Cleveland, O.

Lamson & Sessions Co., 2188 Scranton rd, S W, Cleveland, O.
MERCHANT & EVANS CO. (Inc.), 517 Arch, Phila., Pa. (See adv. index & branch offices, end of book)
 Michigan Bolt & Nut Works, Detroit, Mich.
 Moran Bolt & Nut Mfg. Co., Florida, c Main, St. Louis, Mo.
 Mount Carmel Bolt Co. (also brass), Mt. Carmel, Conn.
 National Screw & Tack Co., Cleveland, O.
NATIONAL SUPPLY CO., 7 W. Lombard, Baltimore, Md. (See adv. index, end of book)
 New Castle Forge & Bolt Co., New Castle, Pa.
 Ohio Nut & Bolt Co., Berea, O.
 Peck, Stow & Wilcox Co., Southington, Conn.
 Reading Screw Co. (also Nickel Plated), Norristown, Pa.
 Reed & Prince Mfg. Co., Worcester, Mass.
 Republic Iron & Steel Co., Frick bldg Annex, Pittsburgh, Pa.
 Reynolds & Co., 321 East, New Haven, Conn.
 Russell, Burdsall & Ward Bolt & Nut Co., Port Chester, N. Y.
 St. Louis Screw Co., St. Louis, Mo.
 Shelton Co., Shelton, Conn.
 Troy Nickel Works (Jno. E. Gaitley, Prop.), Albany, N. Y.
 Upson Nut Co., Unionville, Ct., & Cleveland, O.

Bolts (Strap)

American Iron & Steel Mfg. Co., Lebanon, & Reading, Pa.
 Scranton Bolt & Nut Co., Scranton, Pa.
 Simmons & Sons, Spokane, Wash.

Bolts (Stud)

Aetna Nut Co., Southington, Conn.
 American Iron & Steel Mfg. Co., Lebanon, & Reading, Pa.
 Chicago Screw Co., 2 N Canal, Chicago, Ill.
 Cincinnati Screw & Tap Co., 2442 Beekman, Cincinnati, O.
 Clark Bros. Bolt Co., Milldale, Conn.
 Cleveland Cap Screw Co., 66 Clarkwood av, Cleveland, O.
 Columbus Bolt Works, Columbus, O.
 Garland Nut & Rivet Co., Pittsburgh, Pa.
 Greenlie, Wyatt & Co., 499 Water, N. Y.
 Hall's, Samuel Sons, 229 W 10th, New York
 Hartford Machine Screw Co., Hartford, Conn.
 Haskell, Wm. H. Mfg. Co., Pawtucket, R. I.
 Hoopes & Townsend Co., 1330 Buttonwood, Philadelphia, Pa.
 Kansas City Bolt & Nut Co., Kansas City, Mo.
 Lake Erie Iron Co., Wade bldg, Cleveland, O.
 Lamson & Sessions Co., 2188 Scranton rd, S W, Cleveland, O.
 McCloud, Crane & Minter Co., Worcester, Mass.
 Michigan Bolt & Nut Works, Detroit, Mich.
 Milton Mfg. Co., Milton, Pa.
 Moran Bolt & Nut Mfg. Co., Florida, c Main, St. Louis, Mo.
NATIONAL SUPPLY CO., 7 W. Lombard, Baltimore, Md. (See adv. index, end of book)
 New England Bolt & Nut Co., 267 Atlantic av, Boston, Mass.
 Oliver Iron & Steel Co., Pittsburgh, Pa.
 Pawtucket Mfg. Co., Pawtucket, R. I.
 Phila. Machine Screw Works, Phila., Pa.
 Pittsburgh Screw & Bolt Co., Pittsburgh, Pa.
 Republic Iron & Steel Co., Frick bldg Annex, Pittsburgh, Pa.
 Reynolds & Co., 321 East, New Haven, Conn.
 Rhode Island Tool Co., Providence, R. I.
 Russell, Burdsall & Ward Bolt & Nut Co., Port Chester, N. Y.
 Scranton Bolt & Nut Co., Scranton, Pa.
 Smith, Thos. & Co., Worcester, Mass.
 St. Louis Screw Co., St. Louis, Mo.
 Upson Nut Co., Unionville, Ct., & Cleveland, O.
 Western Automatic Mach. Screw Co., Elyria, O.

Bolts (Tap)

American Iron & Steel Mfg. Co., Lebanon, & Reading, Pa.
 Central City Bolt Co., Syracuse, N. Y.
 Clark Bros. Bolt Co. (& Set-Screws), Milldale, Conn.
 Columbus Bolt Works, Columbus, O.
 Garland Nut & Rivet Co., Pittsburgh, Pa.
 Greenlie, Wyatt & Co., 499 Water, N. Y.
 Hall's, Samuel Sons, 229 W 10th, New York
 Haskell, Wm. H. Mfg. Co., Pawtucket, R. I.
 Hoopes & Townsend Co., 1330 Buttonwood, Philadelphia, Pa.
 Kansas City Bolt & Nut Co., Kansas City, Mo.
 Lake Erie Iron Co., Wade bldg, Cleveland, O.
 Lamson & Sessions Co., 2188 Scranton rd, S W, Cleveland, O.

Michigan Bolt & Nut Works, Detroit, Mich.
Milton Mfg. Co., Milton, Pa.
NATIONAL SUPPLY CO., 7 W. Lombard, Baltimore, Md. (See adv. index, end of book)
New England Bolt & Nut Co., 267 Atlantic av, Boston, Mass.
Pawtucket Mfg. Co., Pawtucket, R. I.
Pittsburg Screw & Bolt Co., Pittsburg, Pa.
Republic Iron & Steel Co., Frick bldg Annex, Pittsburg, Pa.
Reynolds & Co., 321 East, New Haven, Conn.
Rhode Island Tool Co., Providence, R. I.
Russell, Burdsall & Ward Bolt & Nut Co., Port Chester, N. Y.
St. Louis Screw Co., St. Louis, Mo.
Scranton Bolt & Nut Co., Scranton, Pa.
Smith, Thos. & Co., Worcester, Mass.

Bolts (Thumb)

Eberhard Mfg. Co., Tennyson & C. & P. R. R., Cleveland, O.
Hall's, Samuel Sons (Wing or Thumb Nut Bolts), 229 W 10th, New York
NATIONAL SUPPLY CO., 7 W. Lombard, Baltimore, Md. (See adv. index, end of book)
St. Louis Screw Co., St. Louis, Mo.

Bolts (Tire)

American Screw Co. (Fluted), Providence, R. I., & 19 Lake, Chicago, Ill.
Atlas Bolt & Screw Co., Marquette, opp. Hamilton, Cleveland, O.
Berry Bros., Columbus, O.
Central City Bolt Co., Syracuse, N. Y.
Clark Bros. Bolt Co., Milldale, Conn.
Cobb & Drew, Plymouth, Mass., & Rock Falls, Ill.
Columbus Bolt Works, Columbus, O.
Corbiu Screw Corporation, New Britain, Conn.
Falls Rivet & Machine Co., Cuyahoga Falls, O.
Hoopes & Townsend Co., 1330 Buttonwood, Phila., Pa.
Kirk-Latty Mfg. Co., Cleveland, O.
Lake Erie Iron Co., Wade bldg, Cleveland, O.
Lamson & Sessions So., 2188 Scranton rd, S W, Cleveland, O.
Michigan Bolt & Nut Works, Detroit, Mich.
Mount Carmel Bolt Co., Mount Carmel, Conn.
National Screw & Tack Co., Cleveland, O.
NATIONAL SUPPLY CO., 7 W. Lombard, Baltimore, Md. (See adv. index, end of book)
New England Bolt & Nut Co., 267 Atlantic av, Boston, Mass.
Ohio Nut & Bolt Co., Berea, O.
Peck, Stow & Wilcox Co., Southington, Conn.
Reading Screw Co., Norristown, Pa.
Reed & Prince Mfg. Co., Worcester, Mass.
Republic Iron & Steel Co., Frick bldg Annex, Pittsburg, Pa.
Richards, T. C. Hardware Co., Winsted, Conn.
Russell, Burdsall & Ward Bolt & Nut Co., Port Chester, N. Y.
Russell & Erwin Mfg. Co., New Britain, Conn.
Shelton Co., Shelton, Conn.
Skelly, Thos. P. & Co., 24th nr Callowhill Phila.
Upson Nut Co., Unionville, Ct., & Cleveland, O.

Bolts (Toggle)

Alpha & Omega Toggle Co., 269 Dearborn, Chicago, Ill.
Church, Isaac, Toledo, O.
Crescent Co. ("Crescent"), Valparaiso, Ind.
Cutter, Geo. Co., 129 Fulton, Chicago, Ill.
G. & W. Mfg. Co. ("Delta"), 26 Cortlandt, New York
STAR EXPANSION BOLT CO. ("Star"), 147 Cedar, New York. (See adv. index, end of book)
STEWART & ROMAINE MFG. CO., 124 N 6th, Phila., Pa. (See adv. index, end of book)
WILCOX MFG. CO., Aurora, Ill. (See adv. index, end of book)
Wrigley, Thos. & Co. ("Wrigley," Patented Steel), 302 Dearborn, Chicago, Ill.

*Bolts (Toggle, Boiler Patch)

STEWART & ROMAINE MFG. CO. (for Range Boilers), 124 N 6th, Phila., Pa. (See adv. index, end of book)

Bolts (Track)

American Equipment Co., Norristown, Pa.
American Iron & Steel Mfg. Co., Lebanon, & Reading, Pa.
Ames, W. & Co., Jersey City, N. J.

Boston Bolt Co., 234 Franklin, Boston, Mass.
Capital Lock Nut & Washer Co., Columbus, O.
CAREY, GEO. H. (Jobber), 1 B'way, New York. (See adv. index, end of book)
Colorado Fuel & Iron Co., Denver, Colo.
Continental Bolt & Iron Works, 22d & Union, Chicago, Ill.
Elastic Nut & Bolt Co., Russell av & Superior, Milwaukee, Wis.
Hirsch Rolling Mill Co., St. Louis, Mo.
Hoopes & Townsend Co., 1330 Buttonwood, Phila., Pa.
Hubbard & Co., Pittsburg, Pa.
Illinois Steel Co., "The Rookery," Chicago, Ill.
Judson Mfg. Co., San Francisco, Cal.
Kansas City Bolt & Nut Co., Kansas City, Mo.
Lake Erie Iron Co., Wade bldg, Cleveland, O.
Lamson & Sessions So., 2188 Scranton rd, S W, Cleveland, O.
Lanz, Matthew & Sons, 101 S 29th, Pittsburg, Mich.
Michigan Bolt & Nut Works, Detroit, Mich.
Moran Bolt & Nut Mfg. Co., Florida, c Main, St. Louis, Mo.
New Castle Forge & Bolt Co., New Castle, Pa.
New England Bolt & Nut Co., 267 Atlantic av, Boston, Mass.
Oliver Iron & Steel Co. (Threads Rolled or Cut in Oil), Pittsburg, Pa.
Penn Iron Co., Lancaster, Pa.
Pittsburg Forge & Iron Co., 1003 Penna av, Pittsburg, Pa.
Pottsville Bolt Co., Pottsville, Pa.
Republic Iron & Steel Co., Frick bldg Annex, Pittsburg, Pa.
Scranton Bolt & Nut Co., Scranton, Pa.
Tredegar Co., Richmond, Va.
Upson Nut Co., Unionville, Conn., & Cleveland, O.

Bolts (Trolley Span, Wire Work)

American Iron & Steel Mfg. Co., Lebanon, Pa.

Bolts (Wall Plate)

Lanz, M. & Sons, Carson & 29th, Pittsburg, Pa.

Bolts (Whiffletree)

Columbus Bolt Works, Columbus, O.
Lamson & Sessions Co., Cleveland, O.
MOORE, FRANKLIN CO., Winsted, Conn. (See adv. index, end of book)
NATIONAL SUPPLY CO., 7 W. Lombard, Baltimore, Md. (See adv. index, end of book)
Russell, Burdsall & Ward Bolt & Nut Co., Port Chester, N. Y.
Scranton Bolt & Nut Co., Scranton, Pa., & 25 Broad, New York
Upson Nut Co., Unionville, Conn., & Cleveland, O.

Bolts (Window)

(See Bolts, Door & Window.)

Bonds (Rail)

(See Rail Bonds.)

Bone Black

(See also Rawbone, Granulated)

American Ag'l Chemical Co., 2 Rector, New York
Binney & Smith Co., 81 Fulton, New York
Lister Agricultural Chemical Works, 26 B'way, New York
Michigan Carbon Works, Baldwin & Gregory, Detroit, Mich.
Pettit Chemical Co., 241 Front, N. Y.
Seaver & Co., 120 Milk, Boston, Mass.
Standard Guano & Chemical Mfg. Co., 714 Union, New Orleans, La.
Taylor, Geo. F., 80 Pine, New York
Wegelin & Wilckes Black Mfg. Co., 50 Cliff, New York

Bone Dealers

Brand, Herman, 404 E 48th, New York
Koch, Frank, 52 Belvidere av, Jersey City, N. J.
Levy, J. & J., 247 E 56th, New York
Liebenau, Albert, 3402 Park av, New York

Bone-Meal

Akron Fertilizer Co., Akron, O.
York Chemical Works, York, Pa.

Book Cases

Aimoue Mfg. Co. (Combination), 430 E 23d, New York
Andrews, A. H. Co. (Combination, Revolving & Sectional), 174 Wabash av, Chicago, Ill.
Armor Clad Mfg. Co. (Sectional, Metallic), Canton, O.
Automatic File & Index Co. (Sectional), Green Bay, Wis.
Buchanan Cabinet Co. (Revolving), Buchanan, Mich.
Cabinet Makers Co. (Combination), 329 Kent, Grand Rapids, Mich.
Conrey-Foster Furniture Co. (Combination), Shelbyville, Ind.
Co-Operative Furniture Co. (Combination), Rockford, Ill.
Cree-Dickson Mfg. Co. (Sectional), Minneapolis, Minn.
Damer, John Mfg. Co. (Revolving), Canton, O.
Evansville Bookcase & Table Co. (Combination), Evansville, Ind.
Globe-Wernicke Co. (Sectional), 1224 8th, Cincinnati, O.
Gunn Furniture Co. (Combination), Fuller Station, Grand Rapids, Mich.
Hetterochied Mfg. Co. (Revolving), 317 S Division, Grand Rapids, Mich.
Humphrey Book Case Co. (Sectional), 688 Warren av W, Detroit, Mich.
Ideal Desk Extension Co. (Sectional Folding), Auburn, Me.
Library Bureau (Sectional), 530 Atlantic av, Boston, Mass.
McNown Mfg. Co. (Revolving), Columbia City, Ind.
Macey, Fred. Co. (Sectional), Grand Rapids, Mich.
Peck & Hills Furniture Co. (Revolving & Sectional), 1319 Michigan av, Chicago, Ill.
Peninsular Mfg. Co. (Sectional), Ann Arbor, Mich.
Rockford Standard Furniture Co. (Combination), Rockford, Ill.
Sargeant Mfg. Co. (Revolving), Muskegon, Mich.
Shaw-Walker Co. (Sectional), Muskegon, Mich.
Skandia Furniture Co. (Combination), Rockford, Ill.

*Book Lifts (Electric)

OTIS ELEVATOR CO., 17 Battery pl, New York. (See adv. index, end of book)

Book Stacks (Fire-Proof)

(See Library Shelving & Fittings, Metallic.)

Boots (Elevator)

Barnard & Leas Mfg. Co. ("Perfection," etc., Iron or Wood), Moline, Ill.
BARTLETT, C. O. & SNOW CO., French, Cleveland, O. (See adv. index, end of book)
Buhl Malleable Co., Wight & Adair, Detroit, Mich.
Caldwell, H. W. & Son Co., 17th & Western av, Chicago, Ill.
Chain Belt Co., 766 Park, Milwaukee, Wis.
DODGE MFG. CO., Mishawaka, Ind. (See adv. index & branch offices, end of book)
Grotenroth, Fred, 111 W Water, Milwaukee, Wis.
JEFFREY MFG. CO., Columbus, O. (See adv. index & branch offices, end of book)
Link Belt Co., W 39th & Stewart av, Chicago, Ill., & 299 B'way, New York
Marseilles Mfg. Co., Marseilles, Ill.
MINNEAPOLIS STEEL & MACHINERY CO. (Wood, Steel & Cast Iron), Minneapolis, Minn. (See adv. index & branch offices, end of book)
Moore & Lorenz Co., 816 Fulton, Chicago, Ill.
Nordyke & Marmon Co., 1101 W Norris, Indianapolis, Ind.
Power & Mining Machinery Co., 52 William, New York. Works: Cudahy, Wis.
Skillin & Richards Mfg. Co., 147 Fulton, Chicago, Ill.
WELLER MFG. CO., 124 E. North av, Chicago, Ill. (See adv. index, end of book)

*Boots (Sewer Connection)

BERGER MFG. CO., Main Office & Works, Canton, O. (See adv. index & branch offices, end of book)

Borax

Croton Chemical Co. (Refined), 20 Cedar, New York
Denver Fire Clay Co. (Glass), Denver, Colo.
Griswold, E. & Co., San Francisco, Cal.
Pacific Coast Borax Co. (Refined), Oakland, Cal.
Preservalline Mfg. Co., 41 Warren, New York
Rhodes Salt & Borax Co., San Francisco, Cal.

Borax Powder for Annealing, Etc.

Doggett, Stanley, 101 Beekman, New York
McIlvaine Bros., 1500 Hamilton, Phila., Pa.

Borers (Bung Hole)

ELMES, CHAS. F. ENGINEERING
Works, Fulton & N Sangamon, Chicago, Ill.
(See adv. index, end of book)
Enterprise Mfg. Co., 3d & Dauphin, Phila., Pa.
Redlick Mfg. Co., 6 Oak, Chicago, Ill.
Swan, Jas. Co. (Graduated & Ring), Seymour, Conn.
United States Bung Mfg. Co. ("Kirby"), 48 S 2d, Brooklyn, N. Y.

Borers (Tap)

BERNZ, OTTO, S 13th & S Orange av,
Newark, N. J. (See adv. index, end of book)
INGERSOLL-RAND CO., 11 B'way,
New York. (See adv. index & branch offices, end of book)
Ives, W. A. Mfg. Co., 299 B'way, New York
Johnson, Wm. (Hedenberg Works), Newark, N. J.
Stortz, Jno. & Son, 210 Vine, Phila., Pa.

Boring Machines

(See Machines, Boring, of Various Kinds.)

Boring & Turning Mills

(See Mills, Boring & Turning)

*Bortz

BANDLER, BERNARD & SON (also
Black Diamonds for Diamond Drills & all
Mechanical Purposes), 65 Nassau, New York.
(See adv. index, end of book)
DESSAU'S, S. SONS (also Black Dia-
monds for Diamond Drills & all Mechanical
Purposes), 180 B'way, New York. (See adv.
index, end of book)

Boshes (Mechanical)

Heyl & Patterson, 51 Water, Pittsburg, Pa.

Bottle Fillers (Milk, Etc.)

Champion Milk Cooler Co., Cortlandt, N. Y.
Cornish, Curtis & Green, Fort Atkinson, Wis.
Edson Mfg. Co., Boston, Mass.
Stoddard Mfg. Co., Rutland, Vt.

*Bottle Rack (Hollow Tile)

MAURER, HENRY & SON, 420 E 23d,
New York; Penna. bldg, Phila., Pa. Works:
Maurer, N. J. (See adv. inside Front Cover)

Bottle Wrappers (Corrugated)

(See Paper Mfrs., Corrugated)

Bottles (Steel)

Avery Stamping Co. (5-8 inch to 1 inch thick),
Cleveland, O.

Bower Barffed Work

CHICAGO ORNAMENTAL IRON CO.,
37th & Stewart av, Chicago, Ill. (See adv.
index, end of book)
Chicago Hardware Co., 40 Dearborn, Chicago,
Ill.
Hecla Iron Works, 118 N 11th, Brooklyn, N. Y.
Schreiber, L. & Sons Co., 8th & Eggleston av,
Cincinnati, O., & 1133 B'way, New York
SMITH, F. P. WIRE & IRON WORKS,
100 Lake, Chicago, Ill. (See adv. index,
end of book)
WINSLOW BROS. COMPANY, Main
Office & Works, 2515 W Harrison, Chicago,
Ill. (See adv. index & branch offices, end of
book)

Bowls for Centrifugal Machines

Edge Moor Iron Co., Wilmington, Del.

Bowling Alley Builders

Brunswick-Balke-Collendar Co., 130 E 6th, Cin-
cinnati, O., & 229 4th av, New York
Crawford, McGregor & Canby Co., Dayton, O.
Dillingham, Wm. G., 42 South, New York
Doerr, Chas., 116 Hamburg pl, Newark, N. J.
Ehler, Herman F., 277 Washington, Brooklyn,
N. Y.

Harrison, A. H. & Son, Seattle, Wash.
Matthews-Fahl Mfg. Co. ("Boy-Less"), 217 N
2d, St. Louis, Mo.
NARRAGANSETT MACHINE CO.,
Providence, R. I. (See adv. index, end of
book)
Stevens, B. A., S Erie & Lucas, Toledo, O.
Zeliff, J. E., Kearny, N. J.

*Bowling Alley Supplies

McMILLAN'S, W. H. SONS, 153 South,
New York. (See adv. index, end of book)

Box Anchor & Timber Caps

(See also Hangers, Joist)

CHAMPION IRON CO, Kenton, O. (See
adv. index, end of book)
Goetz Box Anchor Co., New Albany, Ind.
RIESECK, R. (Wrought Iron), Alle-
gheny, Pa. (See adv. index, end of book)
Van Dorn Iron Works Co., Cleveland, O.

Box Board Mfrs.

Hewitt, C. B. Bro., 48 Beekman, New York
Mac-Sim-Bar Paper Co., Otsego, Mich.
Niagara Surface Coating Co., Niagara Falls,
N. Y.
Ramage, Jas. Paper Co., Monroe, Mass.
Ticonderoga Pulp & Paper Co., Ticonderoga,
N. Y.
United Box Board & Paper Co., 111 B'way,
New York

*Box Board & Shook Fasteners

CARY MFG. CO., 19 Roosevelt, New
York. (See adv. on opp. page)

Box Machinery

(See Machinery, Box Makers')

Box Nailing Machines

(See Machines, Box Nailing.)

Box Scrapers

(See Scrapers, Box & Plumbers.)

*Box Seals

CARY MFG. CO. (Cary's Patented
Protective Seals), 19 Roosevelt, New York.
(See adv. on opp. page)

Box Shooks

(See Lumber Mfrs.)

Box Stands (Annealing)

Leetonia Boiler Co., Leetonia, O.

Box Straps

Acme Flexible Clasp Co. (Embossed, Flat Wire
& Barbed), 2834 Archer av, Chicago, Ill.
American Box Strap Co. (Duplex), 501 W
B'way, New York
AMERICAN STEEL & WIRE CO.
(Steel), The Rookery, Chicago, Ill. (See
adv. index & branch offices, end of book)
Buffalo Specialty Mfg. Co. ("Lightning" Bands
for Cases & Crates, Buffalo, N. Y.
Cannonsburg Iron & Steel Co. ("Boss"), 421
Wood, Pittsburg, Pa.
CARY MFG. CO. ("Cary's" Universal
& Wire Box Strapping Prongs, Box Corners
& Clutch Nails), 19 Roosevelt, New York.
(See adv. on opp. page)
Crescent Metal Strap Co., 390 Canal, New York
De Haven Mfg. Co. ("Trojan" Steel & Iron), 50
Columbia Heights, Brooklyn, N. Y.
Eureka Metal Box Strap & Mfg. Co., Rochelle,
Ill.

Standard Metal Strap Co. (Steel & Wire), 49
Crosby, New York
Steel Box Band Co., 143 Varick, New York
Twisted Wire Box Strap Co. (Twisted Wire),
451 Greenwich, New York

Boxes (Annealing)

Anderson Foundry & Machine Works (Wrought
Iron), Anderson, Ind.
Leetonia Boiler Co., Leetonia, O.
Meehan Boiler & Constr. Co., Lowellville, O.
McNeil, Jas. & Bro. Co., 29th & A. V. Ry.,
Pittsburg, Pa.
National Mfg. Co., Allegheny, Pa.
National Wrought Iron Annealing Box Co., An-
Niles Boiler Co., Niles, O. derson, Ind.
Pollock, Wm. B. Co., Youngstown, O.
REEVES BROS. CO., Alliance, O.
(See adv. index, end of book)
Riter-Conley Mfg. Co., 56 Water, Pittsburg,
Pa., & 111 B'way, New York
SCAIFE, WM. B. & SONS CO., 221 1st
av, Pittsburg, Pa. (See adv. index, end of
Warren City Boiler Works, Warren, O. book)
WILFONG BROS., 52d & Grays av,
Phila., Pa. (See adv. index, end of book)

Boxes (Axle Grease)

Estes, E. B. & Sons, 74 Warren, New York
Michigan Barrel Co., Grand Rapids, Mich.

Boxes (Berry)

Basket Mfg. Co., Rockwood, Mich.
Colby-Hinkley Co. (Baskets & Veneers), Benton
Harbor, Mich.
Eaglesville Basket Works, Eaglesville, O.
South Side Mfg. Co., 114 Warren, New York
Wells-Higman Co., St. Joseph, Mich.

Boxes (Cash)

Merriam Mfg. Co., Durham, Conn.
Miller Lock Co. (With Keyed Locks & Keyless
Locks), 4523 Tacony, Phila., Pa.

*Boxes (Charging, Open Hearth)

MORGAN ENGINEERING CO., Al-
liance, O. (See adv. index, end of book)

Boxes (Core, for Foundry Use)

OSBORN MFG. CO., 5401 Hamilton
av, N. E., Cleveland, O. (See adv. index,
end of book)
SCAIFE, WM. B. & SONS CO., 221 1st,
av, Pittsburg, Pa. (See adv. index, end of
book)
SMITH, J. D. FOUNDRY SUPPLY
Co., 1581 Columbus rd, N W, Cleveland, O.
(See adv. index, end of book)

*Boxes (Corner Stone)

AMOS, CHAS. & CO., 94 W Larned,
Detroit, Mich. (See adv. index, end of book)

Boxes (Curb)

Campbell, J. B. Brass Works, Erie, Pa.
Eastwood Wire Mfg. Co. (& Key), Belleville,
N. J.
RUMSEY & CO. (Ltd.) (For Service
Pipe), Seneca Falls, N. Y. (See adv. in-
dex & branch offices, end of book)

Boxes (District Call)

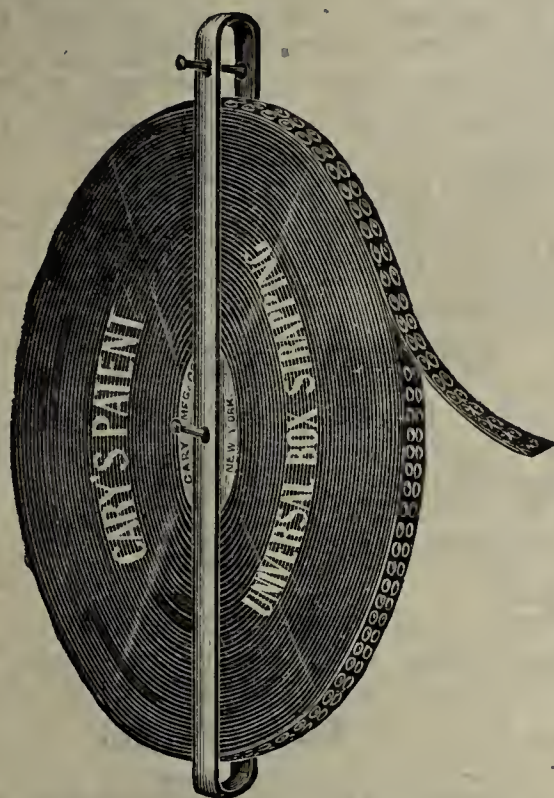
Bunnell, J. H. & Co., 20 Park pl, New York
Herzog Teleseme Co., 51 W 24th, New York
Pearce, Fred'k Co., 18 Rose, New York
Signalphone Alarm Co., Montgomery bldg, Mil-
waukee, Wis.
Viaduct Mfg. Co., 10 S Howard, Baltimore, Md.
Western Electric Co., 259 S Clinton, Chicago,
Ill., & 57 Bethune, New York
Ziegler Apparatus Co., 200 Summer, Boston,
Mass.

*Boxes (Express Messenger)

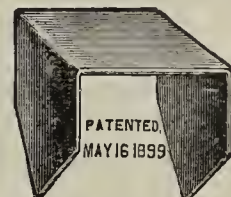
HALL'S SAFE CO., Main Office &
Works, Spring Grove av, Cincinnati, O. (See
adv. index, end of book)

Boxes (Fare)

Brill, J. G. Co., Woodland av c 62d, Phila., Pa.
St. Louis Car Co., 8000 N B'way, St. Louis, Mo.



**Universal Box Strapping,
Steel Hoops and Bale Bands and Buckles,
Wire Box Strapping,
Box Fasteners, Clutch Nails, Seals,
Box Board and Shook Fasteners, etc.**



CARY MFG. COMPANY

CABLE ADDRESS, "CARLEIO"

A. B. C., 4 and 5

Western Union

NEW YORK, U. S. A.

Boxes (Fire Alarm Signal)

Bnnnell, J. H. & Co., 20 Park pl, New York
EDWARDS & CO., 407 E 144th, New York. (See adv. index, end of book)
Signalphone Alarm Co., Montgomery bldg, Milwaukee, Wls.
Star Electric Co., Binghamton, N. Y.

Boxes (Floor Outlet)

Steel City Electric Co. ("Fullman," Watertight Electric), Pittsburg, Pa.

Boxes (Folding Paper)

American Folding Box Co., 150 Worth, New York
American Paper Box Co., Grand Rapids, Mich.
Atwood-Raven Co., 131 W 24th, New York
Boas, Wm. J. & Co., 1042 Ridge av, Phila., Pa.
Boehme & Rauch Co., Monroe, Mich.
Brown & Bailey Co., 410 N Franklin, Phila., Pa.
Chicago Folding Box Co., W Washington & Union, Chicago, Ill.
Edwards Folding Box Co., 6 N 5th, Phila., Pa.
Empire Paper Tube & Box Co., 445 West, New York
Gair, Robert, Brooklyn, N. Y.
Housman, M., 338 B'way, New York
Munson & Co., New Haven, Conn.
National Folding Box & Paper Co., New Haven, Conn.
Russell R. Y. & Son Co., Chelsea, Mass.
St. Louis Paper Box Co., St. Louis, Mo.
Sefton, J. W. Mfg. Co., 2415 Jefferson, Chicago, Ill.
Unique Folding Box Co., 92 Van Dam, New York

Boxes (Fuse)

American General Engineering Co. ("A. G. E." Quick Break), 253 B'way, New York
Brady, Thos. H. (Three Wire, etc.), New Britain, Conn.
Brodie Electric Co., Manchester, N. H.
Columbia Machine Works & Malleable Iron Co., 269 Chestnut, Brooklyn, N. Y.
Crouse-Hinds Electric Co., Syracuse, N. Y.

D & W FUSE CO., 47 Pine, Providence, R. I. (See adv. index, end of book)
GENERAL ELECTRIC CO., Schenectady, N. Y., & 44 Broad, New York. (See adv. index & branch offices, end of book)
Harvard Electric Co., 60 W Van Buren, Chicago, Ill.

Johns, H. W.-Manville Co. ("Noark Fuse & Service Boxes), 100 William, New York
Pass & Seymour, Solvay, N. Y.
Philadelphia Electrical & Mfg. Co., 2011 Market, Phila., Pa.

Vindex Electric Co., Aurora, Ill.
Western Electric Co., 259 S Clinton, Chicago, Ill., & 57 Bethune, New York

*Boxes (Fused Coupling, for Feeder Cables)

D & W FUSE CO., 47 Pine, Providence, R. I. (See adv. index, end of book)
GENERAL ELECTRIC CO., Schenectady, N. Y., & 44 Broad, New York. (See adv. index & branch offices, end of book)

*Boxes (Fused Subway)

D & W FUSE CO. ("D & W"), 47 Pine, Providence, R. I. (See adv. index, end of book)

Boxes (Journal)

American Car & Foundry Co., 706 Chestnut, St. Louis, Mo., & 25 Broad, N. Y.
Anti-Friction Journal Box Co. (Roller Bearing Anti-Friction), Los Angeles, Cal.
BARTLETT, C. O. & SNOW CO., Cleveland, O. (See adv. index, end of book)
BROWN, A. & F. CO., 25 Dey, New York. Works: Elizabethport, N. J. (See adv. index, end of book)
Central Union Brass Co., 11th & Mullanphy, St. Louis, Mo.
Chester Steel Castings Co., Chester, Pa., & 407 Sansom, Phila., Pa.

Cresson, Geo. V. & Co., Allegheny av, w of 17th, Phila., Pa.

Chickasaw Iron Works, Memphis, Tenn.
Davis Pressed Steel Co., Wilmington, Del.
DODGE MFG. CO., Mishawaka, Ind.

(See adv. index & branch offices, end of book)
Dorner Mfg. Co., Monadnock blk, Chicago, Ill.
Falls Rivet & Machine Co., Cuyahoga Falls, O.
Filer & Stowell Co., Milwaukee, Wis.
Fulton Foundry Co., Cleveland, O.
Gould Coupler Co., 1 W 34th, New York
Great Western Mfg. Co., Leavenworth, Kan.
Hewitt Mfg. Co., Railway Exchange bldg, Chicago, Ill.

Illinois Car & Equipment Co., Old Colony bldg, Chicago, Ill.

Jones, E. D. & Sons Co., Pittsfield, Mass.
Kirby Equipment Co., Railway Ex. Chicago, Ill.
Leffel, Jas. & Co. (Inc.), Springfield, O.
McCord & Co., Old Colony bldg, Chicago, Ill.
Nordyke & Marmon Co. (Ball & Socket), Indianapolis, Ind.

Ohio Brass Co., Mansfield, O.

Platt Iron Works Co., Dayton, O., & 100 B'way, New York

Railway Appliances Co., Old Colony bldg, Chicago, Ill.

Symington, T. H. Co. ("Symington"), Baltimore, Md.

Taylor Electric Truck Co., Troy, N. Y.

Trump Mfg. Co., Springfield, O.

Boxes (Junction)

Bossert Electric Construction Co. (Steel), Utica, N. Y.

Brady, T. H., New Britain, Conn.

CHASE-SHAWMUT CO., Newburyport, Mass. (See adv. index, end of book)

Crouse-Hinds Co. ("Conduits" Outlet), Syracuse, N. Y.

D & W FUSE CO., 47 Pine, Providence, R. I. (See adv. index, end of book)

Fountain, Jno. J., Jr., 29 Murray, N. Y.

Garrett, Miller & Co., Wilmington, Del.

GENERAL ELECTRIC CO., Schenectady, N. Y., & 44 Broad, New York. (See adv. index & branch offices, end of book)

Hill, W. S. Electric Co., New Bedford, Mass.
Johnson & Morton, 44 Whitesboro, Utica, N. Y.
Leonard-Ward Electric Co., Bronxville, N. Y.

La Roche, F. A. Co., 656 Hudson, N. Y.
 McCarthy Bros. & Ford, 41 Eagle, Buffalo, N. Y.
 Martin Electric Co., 90 Verona, Brooklyn, N. Y.
 Pass & Seymour, Solvay, N. Y.
 Porter's, Wm. Sons Co., 23 Vandewater, New York

Sprague Electric Co., 529 W 34th, N. Y.
 Renim Specialty Co. ("Renim"), Faneuil Station, Boston, Mass.

Russell & Stoll Co., 48 Cliff, New York
 Seidler & Miner Electric Co., Detroit, Mich.
 Standard Underground Cable Co., Westinghouse bldg, Pittsburgh, Pa.

Toler, Jno. Sons & Co., 108 Adams, Newark, N. J.
 Ward, Leonard Electric Co., Bronxville, N. Y.
WESTINGHOUSE ELECTRIC & MFG. Co., Pittsburg, Pa. (See adv. index & branch offices, end of book)

Boxes (Lock)

Clark, W. J. Co., Salem, O.
 Corbin Cabinet Lock Co., New Britain, Conn.
 Miller Lock Co., 4523 Tacony, Phila., Pa.
 Yale & Towne Mfg. Co., 9 Murray, New York; Works, Stamford, Conn.

Boxes (Lock Corner)

Bogert & Hopper, 162 William, New York
 Butts, Chas. G. Co., N Tonowanda, N. Y.
 Connecticut Box Co., 849 Chapel, New Haven, Conn.

Estes, E. B. & Sons, 74 Warren, New York
 Green, A. H. H. Co., 22 Park pl, New York
 Page, Geo. G. Box Co., Cambridge, Mass.
 Schutz Bros., 108 Fulton, New York
 Sheip, Hy. H. Mfg. Co., 529 Columbia av, Phila., Pa.

Tollner's, Chas. Sons Co., Pulaski, N. Y.
 Le Barron, S. T., 131 Border, E. Boston, Mass.
 New England Box Co., Greenfield, Mass.
 New Haven Mills Mfg. Co., New Haven Mills, Vt.

Boxes (Mail)

Barber Mfg. Co., Ashtabula, O.
 Corbin Cabinet Lock Co. (Apartment House & Office Letter Boxes), New Britain, Conn.
 Dudfield & Klepper ("D. & K."), Lathrop, Mo.
FAIRFAX U. S. MAIL CHUTE SYSTEM, 150 5th av, New York. (See adv. index, end of book)

Forest City Foundry & Mfg. Co. ("Standard"), Cleveland, O.
 Heise & Brauer ("XX Century"), 61 Union Park ct, Chicago, Ill.

Manhattan Electrical Supply Co., 17 Park pl, New York

Michigan Steel Box Co. (Steel Boxes), Adrian, Mich.
 Nicol & Co., 57 W Wash'n, Chicago, Ill.
 Partrick, Carter & Wilkins, 22d & Wood, Phila., Pa.

Peck, C. A. Hardware Co. (Rural), Berlin, Wis.
 Phelps & Sons, 110 Pennington, Newark, N. J.
 Phocnix Hardware Mfg. Co., Hower, N. Y.
 Purcell, N. F. & Co., 232 S Clinton, Chicago, Ill.
 Reading Hardware Co., Reading, Pa.

Tatum, Samuel C. Co., 414 W Water, Cincinnati, O.
 Taylor & Boggis Foundry Co., 521 Seneca, Cleveland, O.

UNION EQUIPMENT AND BRONZE CO.
 520 W 36th, N. Y. (See adv. outside stencil)

Walsh, Owen Mfg. Co., 21 Roosevelt, N. Y.
 Western Electric Co., 259 S Clinton, Chicago, Ill., & 57 Bethune, New York
 Yale & Towne Mfg. Co., 9 Murray, New York. Works: Stamford, Conn.

Boxes (Meter)

Brady, T. H. (for Sealing Wires after Meter is Removed), New Britain, Conn.

Boxes (Miners' Squib)

Anton, Geo. & Bro., Monongahela, Pa.

Boxes (Mitre)

Braunsdorf-Mueller Co. ("Dorn" Revolving), Elizabeth, N. J.
 Doscher Plane & Tool Co., Saugatuck, Conn.
 Goodell Mfg. Co. (Bessemer Steel), Greenfield, Mass.
 Langdon Mitre Box Co. ("Langdon Acme"), Millers Falls, Mass.

McCarty, J. C. & Co. ("Victor" Folding), 10 Warren, New York
 McFarlan & Spilker Mfg. Co. ("Excelsior" & "Spelter"), Cincinnati, O.
 Marsh, H. C. ("Marsh-Langdon"), Rockford, Ill.
 Nichols Mfg. Co., Ottumwa, Ia.
 Schatz Hardware Mfg. Co., Chappaqua, N. Y.
 Stauley Rule & Level Co. ("Stanley"), New Britain, Conn.
 Tower & Lyon Co. (The "Perfection"), 95 Chambers, New York

*Boxes (Muffle)

BETHLEHEM FOUNDRY & MACHINE Co. (for Chemical Mfg. etc.), Front, South Bethlehem, Pa., & 149 B'way, New York. (See adv. index, end of book)

Boxes (Packing)

(See Packing Box Mfrs.)

Boxes (Paper, Metal Edge)

National Metal Edge Box Co., 8th & Willow, Philadelphia, Pa.

Boxes (Patrol)

American Steel House Co., 798 11th av, New York

Boxes (Plumbers' Grease, Rosin, Etc.)

Johnson, Wm. (Hedenberg Works), Newark, N. J.

Boxes (Quarry Dump)

Steam Stone Cutter Co. (For Quarry Waste, etc.), Rutland, Vt.

Boxes (Resistance)

(See Rheostats.)

Boxes (Rural Mail)

Blick-Williams Co., Indianapolis, Ind.
 Briscoe Mfg. Co., Detroit, Mich.
 Century Post Co., Tecumseh, Mich.
 Hawkeye Pump Co. ("Hawkeye"), Washington, Ia.
 Kelly Foundry & Machine Co., Goshen, Ind.
 Peck, C. A. Hardware & Mfg. Co. ("Gem"), Berlin, Wis.
 Signal Mail Box Co. (Bates-Hawley Signal), Welch Co., Nankin, O.
 Joliet, Ill.

*Boxes (Safe Deposit)

BERGER MFG. CO., Main Office & Works, Canton, O. (See adv. index & branch offices, end of book)
WILSON, F. CORTEZ & CO., 239 Lake, Chicago, Ill. (See adv. index, end of book)

Boxes (Sand)

(See also Locomotive Sanders)

Brill, J. G. Co., 62d & Woodland av., Philadelphia, Pa.
 Columbia Machine Works & Malleable Iron Co., 269 Chestnut, Brooklyn, N. Y.
 De Witt Sand Box Co., Troy, N. Y.
 Ham Sand Box Co., Troy, N. Y.
 Knecht, Victor Co., 819 Wade, Cincinnati, O.
 Lebanon Electric Co. (Electric), Lebanon, Pa.
 Nichols-Lintern Co., Cleveland, O.
 Ridlon, Frank Co., 200 Summer, Boston, Mass.
 St. Louis Car Co., 8000 N B'way, St. Louis, Mo.
 Sterling-Meeker Co., 420 Ogden, Newark, N. J.
 Vogan Bros. Mfg. Co., New Castle, Pa.

Boxes (Seamless Tin)

Buckeye Stamping Co., Columbus, O.
 Rumrill & Co., 52 Purchase, Boston, Mass.

Boxes (Self-Opening Scale)

Cyclopean Iron Works Co., Jersey City, N. J.

Boxes (Shaft)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)

BROWN, A. & F. CO., 25 Dey, New York. Works: Elizabethport, N. J. (See adv. index, end of book)

Cresson, George V. Co., Allegheny av. W of 17th, Phila., Pa.

DODGE MFG. CO., Mishawaka, Ind.

(See adv. index & branch offices, end of book)
 Falls Rivet & Machine Co., Cuyahoga Falls, O.
 Filer & Stowell Co., Milwaukee, Wis.

Hunt, Rodney Machine Co., Orange, Mass.

Hutchinson, Jno. Mfg. Co. (Roller Bearing, Drop Hanger & Post Box), Jackson, Mich.

Jones & Laughlin Steel Co., Pittsburg, Pa.

Medart Patent Pulley Co., St. Louis, Mo.

Sellers, Wm. H. & Co., Inc., 1690 Hamilton, Phila., Pa.

Union Iron Works, 222 Market, San Francisco, Cal.

Wood's, T. B. Sons, Chambersburg, Pa.

Boxes (Shelf Hardware)

Green, A. H. ("Lock Corner"), 22 Park pl, N. Y.

Heller Box Co. (Steel), Montpelier, O.

Jones, Jesse Paper Box Co. (Wood), 615 Commerce, Phila., Pa.

Moore, O. P., Ravenswood, W. Va.

Phillips, A. J. Co. (Tack, Nail, etc.), Fenton, Mich.

Boxes (Stoneware)

Graham, Chas. Chemical Pottery Works, 986 Metropolitan av, Brooklyn, N. Y.

Boxes (Switch)

Fountain, Jno. Jr., 29 Murray, N. Y.

HART MFG. CO. ("Diamond H"), Hartford, Conn. (See adv. index & branch offices, end of book)

Hart & Hegeman Mfg. Co., Hartford, Conn.

LYON METALLIC MFG. CO., Aurora, Ill. (See adv. index, end of book)

Marshall Electric Mfg. Co., 303 Congress, Boston, Mass.

Ostrander & Co., 22 Dey, N. Y.

Renim Specialty Co. ("Renim" from 1 to 8 Gauge), Faneuil Station, Boston, Mass.

Toler, Jno. Sons & Co., 108 Adams, Newark, N. J.

N. J.

*Boxes (Switch, Fused Service)

D & W FUSE CO. ("D & W"), 47 Pine, Providence, R. I. (See adv. index, end of book)

Boxes (Take Up)

Chain Belt Co., Milwaukee, Wis.

Diamond Iron Works, Minneapolis, Minn.

DODGE MFG. CO., Mishawaka, Ind.

(See adv. index & branch offices, end of book)

JEFFREY MFG. CO., Columbus, O.

(See adv. index & branch offices, end of book)

MINNEAPOLIS STEEL & MACHINERY Co., Minneapolis, Minn. (See adv. index & branch offices, end of book)

Nordyke & Marmon Co., Indianapolis, Ind.

Strait, H. N., Kansas City, Mo.

Boxes (Telephone)

(See Woodwork, Electrical.)

*Boxes (Ticket Cancelling)

INGERSOLL-RAND CO., 11 B'way, New York. (See adv. index & branch offices, end of book)

Boxes (Tote, Sheet Steel)

Avery Stamping Co., Lake, c Coe, Cleveland, O.

Clark, W. J. Co., Salem, O.

Cleveland Wire Spring Co., Cleveland, O.

Heller, W. C. & Co. (for Dies, Bolts, Nuts, Screws, etc.), Montclair, N. J.

Kilbourne & Jacobs Mfg. Co., Columbus, O.

LYON METALLIC MFG. CO., Aurora, Ill. (See adv. index, end of book)

McClintock & Irvine Co., Neville & P. R. R., Pittsburg, Pa.

Ohio Mfg. Co., Painesville, O.

SCAIFE, WM. B. & SONS CO., 221 1st av, Pittsburg, Pa. (See adv. index, end of book.)

WILSON, F. CORTEZ & CO., 239 Lake, Chicago, Ill. (See adv. index, end of book)

Boxes (Turned Wood)

(See also Boxes, Lock Cornered; also Wood Novelties, Turned)

Estes, E. B. & Sons (Also Lock Cornered & Fancy Hardwood), 74 Warren, New York
Schutz Bros., 108 Fulton, New York
Shelp, H. H. Mfg. Co., 529 Columbia av, Phila., Pa.

Boxes (Twine)

Landers, Frary & Clark, New Britain, Conn.
Reading Hardware Co., Reading, Pa.
Tatum, Samuel C. Co., 414 W Water, Cincinnati, O.

Boxes (Valve)

Bourbon Copper & Brass Works, 618 E Front, Cincinnati, O.
Builders' Iron Foundry ("Stacy" Extension Service), Providence, R. I.
Campbell, J. B. Brass Works, Erie, Pa.
CANTON FOUNDRY & MACHINE CO. (Adjustable), Canton, O. (See adv. index, end of book)
Clow, Jas. B. & Sons, 344 Franklin, Chicago.
Clymer Machinery Co., Greensboro, N. C. Ill.
Darling Pump & Mfg. Co. (Ltd.), Williamsport, Pa.
Drummond, M. J. & Co., 182 B'way, N. Y.
Frost's, J. D. Sons Mfg. Co., Towanda, Pa.
Hays Mfg. Co., (Extension Service), Erie, Pa.
Illinois Malleable Iron Co., 32 W Monroe, Chicago, Ill.
Kennedy Valve Mfg. Co. (Extension Valve), 57 Beekman, N. Y., & Coxsackie, N. Y.
Modern Iron Works ("Peerless," Adjustable, Bignall Service or Stop-Cocks), Quincy, Ill.
Mueller, H. Mfg. Co., Decatur, Ill.
Pittsburg Mfg. Co., 28th & Railroad, Pittsburg, Pa.
Pleuger & Henger Mfg. Co., 11th & Hebert, St. Rensselaer Mfg. Co., Troy, N. Y. Louis, Mo.
South Park Foundry & Machine Co., St. Paul, Minn.
Sweet & Doyle Valve Co., Troy, N. Y., & 238 Franklin, Boston, Mass.
Vogan Bros. Mfg. Co., New Castle, Pa.
Wood, R. D. & Co. (Adjustable), 400 Chestnut, Phila., Pa.

Boxes (Wall)

BROWN, A. & F. CO., 25 Dey, New York. Works: Elizabethport, N. J. (See adv. index, end of book)
Cresson, Geo. V. Co., 18th & Allegheny av, Phila., Pa.
DODGE MFG. CO., Mishawaka, Ind. (See adv. index & branch offices, end of book)
Lanz, M. & Sons (Steel), 101 S 29th, Pittsburg, Pa.
Platt Iron Works Co., Dayton, O., & 100 B'way, New York

Boxes (Waste)

Clark, W. J. Co., Salem, O.
KOVEN, L. O. & BRO. (Iron), 50 Cliff, New York. (See adv. index, end of book)
LYON METALLIC MFG. CO. (Iron), Aurora, Ill. (See adv. index, end of book)
WILSON, F. CORTEZ & CO., 239 Lake, Chicago, Ill. (See adv. index, end of book)

Boxes (Water Meter)

Buffalo Meter Co., Buffalo, N. Y.
Trump Mfg. Co. ("Hoppes"), Springfield, O.

Braces (Cross Arm)

(See also Cross Arms, Brackets, etc., Steel)
American Iron & Steel Mfg. Co., Lebanon, Pa.
Avery Stamping Co., Cleveland, O.
Buffalo Steel Co. (Stiff Bessemer Steel), Tonawanda, N. Y.
Craighead Engineering Co., 313 Walnut, Cincinnati, O.
FOREST CITY STEEL & IRON CO., Cleveland, O. (See adv. index, end of book)
GENERAL ELECTRIC CO., Schemmectady, N. Y., & 44 Broad, New York. (See adv. index & branch offices, end of book)
Hazel Atlas Glass Co., Wheeling, W. Va.
Helmemann, Geo. M. & Co., 737 Girard av, Phila., Pa.
Hoopes & Townsend Co., 1330 Buttonwood, Hubbard & Co., Pittsburg, Pa. Phila., Pa.
Kansas City Bolt & Nut Co., Kansas City, Mo.

Lanz, Matthew & Sons, 101 S 29th, Pittsburg, Pa.
McCance Co. (Plain & Galvanized), Pittsburg, Pa.
Michigan Bolt & Nut Works, Detroit, Mich.
Mountain State Electrical Co., Wheeling, W. Va.
Ogden, J. Edward Co., 147 Cedar, N. Y.
Ohio Brass Co., Mansfield, O.
Ohio Galvanizing & Mfg. Co. ("Galvanized"), Niles, O.
Old Dominion Iron & Nail Works Co., Richmond, Oliver Iron & Steel Co., Pittsburg, Pa. Va.
New Jersey Foundry & Machine Co., 9 Murray, New York
Republic Iron & Steel Co., Frick bldg Annex, Pittsburg, Pa.
Western Electric Co., 259 S Clinton, Chicago, Ill., & 57 Bethune, New York

Braces (Pole Arm)

American Iron & Steel Mfg. Co., Lebanon, Pa.
ANDERSON FORGE & MACHINE CO., 271 Guoin, Detroit, Mich. (See adv. index, end of book)
Kansas City Bolt & Nut Co., Kansas City, Mo.
Lanz, Matthew & Sons, 101 S 29th, Pittsburg, Pa.
Michigan Bolt & Nut Works, Detroit, Mich.
North Penn Iron Co., 3d & Venango, Phila., Pa.
Old Dominion Iron & Nail Works Co., Richmond, Va.
Republic Iron & Steel Co., Frick bldg Annex, Pittsburg, Pa.

Braces (Sewer)

(See Sewer & Trench Braces)

Brackets

American Pin Co. (Brass, Lavatory, Tank, etc.), Waterbury, Conn.
Atlas Mfg. Co. (Shelf), New Haven, Conn.
Barber Mfg. Co. (Plumbers Adjustable Nickeled, etc.), Ashtabula, O.
Barnes Mfg. Co. (Plumbers, etc.), Mansfield, O.
Buckley-Hart Mfg. Co. (Lavatory), 527 Franklin, Detroit, Mich.
Edwardsville Brass Co. (Iron, Steel & Brass), Edwardsville, Ill.
Glenn Mfg. Co. (Plumbers Sink), St. Charles, Ill.
Griffin Mfg. Co. (Lavatory, Sink & Flush, Tank, etc.), Erie, Pa.
Haines, Jones & Cadbury Co. (Plumbers), 1136 Ridge av, Phila., Pa.
Ideal Mfg. Co., Detroit, Mich.
Kilbourne & Jacobs Mfg. Co. (Steel Sink), Columbus, O.
Kupferle, John C. (Sink, Tank, etc.), St. Louis, Mo.
Lalace & Grosjean Mfg. Co. (Plumbers), 19 Cliff, New York
Lipp, Louis Co. (Closet Tank), Winton pl, Cincinnati, O., & 120 High, Boston, Mass.
McCambridge & Co. (Plumbers'), 315 N 20th, Philadelphia, Pa.
McKinney Mfg. Co. (Shelf), Allegheny, Pa.
Mercler, Edw. (Shingling & Scaffold), Highland Station, Springfield, Mass.
Modern Iron Works (Cast Iron Sink), Quincy, Ill.
Mott, J. L. Iron Works, 118 5th av, New York
Mullaney's, Jas. Son (Plumbers), "Brass, Basin & Cistern," 25th c Lex av, N. Y.
Nelson, N. O. Mfg. Co., St. Louis, Mo.
Northwestern Foundry & Supply Co. (Sink), Detroit, Mich.
Ohio Brass & Iron Mfg. Co. (Plumbers), Cleveland, O.
Ohio Foundry Co. (Sink), Dayton, O.

OHIO STRUCTURAL IRON CO., Sandusky, O. (See adv. index, end of book)
Park & McKay Co., Detroit, Mich.
Peck, Stow & Wilcox Co. (Shelf), Southington, Conn.
Penn Hardware Co. (Plumbers & Shelf, Cast & Wrought Steel), Reading, Pa.
Phoenix Hdw. Mfg. Co. (Plumbers), Homer, N. Y.
Pleuger & Henger Mfg. Co. (Plumbers, Shelf, etc.), St. Louis, Mo.
Reading Hardware Co. (Iron Shelf & Screen Door), Reading, Pa.
RUMSEY & CO. (Ltd.) (Adjustable Sink, etc.), Seneca Falls, N. Y. (See adv. index & branch offices, end of book)
Sanitary Co. (Plumbers, "Paragon" Brass), 7 Water, Cleveland, O.
STANLEY WORKS (Wrought Steel Shelf), New Britain, Conn., & 79 Chambers, N. Y. (See adv. index, end of book)

Stover Mfg. Co. (Plumbers & Shelf), Freeport, Ill.
Stowell Mfg & Foundry Co. (Plumbers'), S Milwaukee, Wls.
Swett, A. L. Iron Works (Sink), Medina, N. Y.
Wolverine Brass Works (Lavatory), Grand Rapids, Mich.
Wrightsville Hardware Co. (Shelf, Plumbers, etc.), Wrightsville, Pa.
Young, Joseph H. ("Boston" Adjustable, for Tray & Sink), 80 High, Boston, Mass.

Brackets (Arc Lamp)

Cutter, Geo. Co., 129 Fulton, Chicago, Ill.
Lundin Elec. & Mach. Co., 10 Thacher, Boston, Mass.
Western Electric Co., 259 S Clinton, Chicago, Ill., & 57 Bethune, New York

Brackets (Cross-Arms, Etc.)

(See Brackets, Trolley Pole)

Brackets (Curtain Pole)

Judd, H. L. & Co., 87 Chambers, New York
Mott Iron Works, 118 5th av, New York
Nelson, N. O. Mfg. Co., 8th c St. Charles, St. Louis, Mo.
Wire Goods Co., Worcester, Mass.

Brackets (Desk Telephone)

Allen-Hussey Co., 66 W Jackson boul, Chicago, Ill.
American Book Bracket Co., Drexel bldg, Phila., Pa.
Benbow Co., Perry bldg, Phila., Pa.
DeVeau Telephone Mfg. Co., 27 Rose, N. Y.
Griggs Mfg. Co., 79 5th av, Chicago, Ill.
Warner Electric Co. (Oxidized Finished), Muncie, Ind.
Western Electric Co., 259 S Clinton, Chicago, Ill., & 57 Bethune, New York

Brackets (Electric House)

Brady, T. H., New Britain, Conn.
Bryant Electric Co., Bridgeport, Conn.
Cutter, George Co., 129 Fulton, Chicago, Ill.
Electrical Construction Supply Co., Springfield, Ohio
Fletcher Mfg. Co., Dayton, O.
Heinemann, G. M. & Co., 737 Girard av, Philadelphia, Pa.
New England Eng. Co., Waterbury, Conn.
Spencer's, I. S. Sons, Guilford, Conn.

Brackets (Flag Pole)

Hart, Walter, 111 Chambers, New York
Wilcox, Crittenden & Co., Middletown, Conn.
Wrightsville Hardware Co., Wrightsville, Pa.

Brackets (Folding Scaffold)

Celebrated Scaffold Bracket Co. (Scaffold), 612 Mitchell, Milwaukee, Wis.
Danforth, A. H. (Scaffold), Monson, Mass.
Moulton, C. W. & Co., Somerville, Mass.

Brackets (Folding Shelf)

Griffin Mfg. Co. (Pressed Steel Shelf), Erie, Pa.

Brackets (Hand & Foot Rail)

Arcade Mfg. Co., Freeport, Ill.
Cheney, S. & Son, Manlius, N. Y.
Glenn Mfg. Co. (Counter Rail), St. Charles, Ill.
Norwalk Lock Co., So. Norwalk, Conn.
Penn Hardware Co., Reading, Pa.
Pleuger & Henger Mfg. Co., 11th & Hebert, St. Louis, Mo.
Pratt, Wm. E. Mfg. Co., 91 Lake, Chicago, Ill.
Reading Hardware Co., Reading, Pa.
Russell & Erwin Mfg. Co., New Britain, Conn., & 43 Chambers, N. Y.

UNION EQUIPMENT AND BRONZE CO.

520 W 36th, N. Y. (See adv. outside stencil)
Western Brass Mfg. Works, 21st & Rockwell, Chicago, Ill.
WILCOX MFG. CO., Aurora, Ill. (See adv. index, end of book)
WISCONSIN IRON & WIRE WORKS, 190 E Water, Milwaukee, Wis. (See adv. index, end of book)

Brackets (Rafter)

Louden Machinery Co., Fairfield, Ia.
Meyer & Bro., Ashland, O.
Ney Mfg. Co., Canton, O.
Pratt, Wm. E. Mfg. Co., 91 Lake, Chicago, Ill.

Brackets (Roof)

EDWARDS MFG. CO., Eggleston av
& 4th & 5th, Cincinnati, O. (See adv. index & branch offices, end of hook)
Monlton, C. W. & Co., Somerville, Mass.
Wagner Mfg. Co. ("Wagner"), Cedar Falls, Ia.

Brackets (Shelf)

Arcade Mfg. Co., Freeport, Ill.
Atlas Mfg. Co. ("Bradleys"), New Haven, Conn.
Baltimore Hinge Co., 1300 Bank, Baltimore, Md.
Brass Goods Mfg. Co., Nevin & Union, Brooklyn, N. Y.
Chalfant Mfg. Co., Lancaster, Pa.
Cleveland Lock Co. ("Hercules"), Cleveland, O.
Dayton Malleable Iron Co., Dayton, O.
Grand Rapids Brass Co., Grand Rapids, Mich.
Griffin Mfg. Co. (Pressed Steel), Erie, Pa.
McKinney Mfg. Co. (Wrought Steel), Allegheny, Pa.
Peck, Stow & Wilcox Co., Southington, Conn.
Penna, Hardware Co. (Cast & Wrought Steel), Reading, Pa.
Pleuger & Henger Mfg. Co., 11th & Hebert, St. Louis, Mo.
Reading Hardware Co., Reading, Pa.
Russell & Erwin Mfg. Co., New Britain, Conn., & 45 Chambers, N. Y.

STANLEY WORKS (Wrought Steel),
New Britain, Conn., & 79 Chambers, N. Y.
(See adv. index, end of hook.)
Stover Mfg. Co. (Plumbers & Shelf), Freeport, Ill.
Stowell Mfg. & Foundry Co., South Milwaukee, Wis.
Western Brass Mfg. Works (Brass & Bronze), 21st & Rockwell, Chicago, Ill.
WISCONSIN IRON & WIRE WORKS,
190 E Water, Milwaukee, Wis. (See adv. index, end of book)
Wrightsville Hardware Co., Wrightsville, Pa.

Brackets (Staging)

Boston Bolt Co., 284 Franklin, Boston, Mass.
Johnson, Abner (Scaffold Brackets & Hooks), Rockport, Ill.

Brackets (Table)

Mott Iron Works, 118 5th av, New York
Universal Caster & Foundry Co., 1170 B'way, New York. Factory: Newark, N. J.

Brackets (Telephone)

(See also Brackets, Desk Telephone)

Connecticut Telephone & Electric Co., Meriden, Conn.
Griggs Mfg. Co., 79 5th av, Chicago, Ill.
Mott Iron Works, 118 5th av, New York
Nelson, N. O. Mfg. Co., 8th & St. Charles, St. Louis, Mo.
Norton Tool Co., West Park, O.

Brackets (Trolley Pole)

(See also Cross Arms, Brackets & Pins, Wood)
American Bridge Co. (Steel), 10 B'way, New York
Anderson, Albert & J. M. Mfg. Co., 287 A. S. B., Boston, Mass.
Blue Ridge Locust Pin Co., Asheville, N. C.
Brady, T. H., New Britain, Conn.
Creaghead Engineering Co. (Creaghead Flexible), 313 Walnut, Cincinnati, O.
Dayton Mfg. Co., 2240 E. 3d, Dayton, O.
Electric Railway Equipment Co., 1938 W 8th, Cincinnati, O.
Fletcher Mfg. Co. (Iron Brackets & Pins), Dayton, O.
GENERAL ELECTRIC CO., Schenectady,
N. Y., & 44 Broad, New York. (See adv. index & branch offices, end of hook)
Helmemann, G. M. & Co., 737 Girard av, Philadelphia, Pa.
Leavitt, R. H., Capron, Ill.
Locke Insulator Mfg. Co., Victor, N. Y.
McLain, H. E., 141 Federal, Boston, Mass.

Mountain State Electrical Co., Wheeling, W. Va.

Ohio Brass Co. (All Kinds), Mansfield, O.
Oshkosh Logging Tool Co., Oshkosh, Wis.
Walworth Mfg. Co., 132 Federal, Boston, Mass., & 15 Park Row, N. Y.
Western Electric Co., 259 S. Clinton, Chicago, & 57 Bethune, N. Y.

Brackets (Wall, for Power Transmission)

(See Power Transmitting Machinery)

Brackets (Wood)

Cypress Tank & Mfg. Co. (Wholesale Mfrs.), Patterson, La.
Lidell, Wm. C., 597 Austin av, Chicago, Ill.
McMillen, R. Co., Oshkosh, Wis.
Morgan Co., Factory & General offices, Oshkosh, Wis.
Pelce, W. E. & Co., Milford, N. H.
STEARNS, A. T. LUMBER CO.,
Weymouth, Boston, Mass. (See adv. index, end of hook)
Zimmerman, Chas. E., 204 Burnet av, Syracuse, N. Y.

*Brake Banding for Automobiles

ROSSENDALE - REDDAWAY BELT-
ing & Hose Co. ("Camel"), Newark, N. J.
(See adv. index, end of hook)

Brake Beams

American Iron & Steel Mfg. Co., Lebanon, Pa.
Bettendorf Axle Co. (Car), Davenport, Ia.
Chicago Railway Equipment Co. ("Kewanee," "Diamond," "Central" & "Monarch"), Great Northern bldg, Chicago, Ill.
Dumascus Brake Beam Co. ("Waycott," "Dumascus"), 527 N 2d, St. Louis, Mo.
Davis Pressed Steel Co., Wilmington, Del.
Pressed Steel Car Co., Pittsburg, Pa.
Standard Steel Car Co., Frick hldg, Pittsburg, Pa.
Sterlingworth Railway Supply Co. (Rolled Steel), North American bldg, Phila., Pa.
Works, Easton, Pa.
U. S. METAL & MFG. CO. ("Dumascus"),
25 Broad, New York. (See adv. index, end of book)

*Brake Equipment for Traction Cars (Power)

WESTINGHOUSE TRACTION BRAKE
Co., Pittsburg, Pa.

Brake Jaws

Cleveland City Forge & Iron Co., 67 Case av, Cleveland, O.
Dayton Malleable Iron Co. ("Kelly"), 1303 W 3d, Dayton, O.
Kansas City Bolt & Nut Co., Kansas City, Mo.
Peacock's Iron Works, Selma, Ala.
Solid Steel Tool & Forge Co., Brackenridge, Pa.
Steel Car Forge Co., Pittsburg, Pa. Works, Elwood City, Pa.
U. S. METAL & MFG. CO. ("Howard")
Wrought Iron & "Western Railway Equipment" Malleable Iron, 25 Broad, New York. (See adv. index, end of book)

Brake Levers

American Iron & Steel Mfg. Co., Lebanon, Pa.
Dayton Malleable Iron Co. (Made from Malleable Iron), Dayton, O.
Steel Car Forge Co., Pittsburg, Pa. Works, Elwood City, Pa.

Brake Shoe-Wheel Truing

Car Wheel Truing Brake Shoe Co., Ellicott sq, Buffalo, N. Y.
Wheel Truing Brake Shoe Co., The Lenox, Detroit, Mich.

Brake Shoes

Adams, S. Jarvis Co., Etna & 14th, Pittsburg, Pa.
AMERICAN BRAKE SHOE & FOUN-
dry Co. (Railway), 170 B'way, New York.
Works & Sales Office: Chicago Heights, Ill.
(See adv. index & branch offices, end of book)

American Steel Foundries (Open Hearth Steel), Main Office, 42 B'way, New York
American Car & Foundry Co., 706 Chestnut, St. Louis, Mo., & 25 Broad, New York
Baltimore Car-Wheel Co., Fulton Station, Baltimore, Md.
Barbour-Stockwell Co. (Electric Railway), Cambridgeport, Mass.

Barnum-Richardson Co., Lime Rock, Conn.
Bellwood Mfg. Co., Bellwood, Pa.
Brill, J. G. Co., 62d & Woodland av, Phila., Pa.
Buckeye Steel Castings Co., Columbus, O.
Buda Foundry & Mfg. Co., Railway Exchange hldg, Chicago, Ill.; Works: Harvey, Ill.
Chester Steel Castings Co., Chester, Pa., & 407 Sansom, Phila., Pa.

Elmira Heights Foundry, Elmira, N. Y.
Fulton Foundry Co., Cleveland, O.
Lehigh Car Wheel & Axle Works, Catasauqua, Pa.

Lorraine Foundry Co., Bush & Wilcomico, Baltimore, Md.
Love Brake Shoe Co. ("Armbrust"), Fisher hldg, Chicago, Ill.

McCord & Co., Old Colony hldg, Chicago
McGulre-Cummings Mfg. Co., 122 N Sangamon, Chicago, Ill.

McIntyre, Robert J., Allentown, Pa.
Morris & Lewis ("Walsh"), Rock Island, Ill.
Mowry Car Wheel Works, 2401 Eastern av, Cincinnati, O.

Murray Iron Works Co., Burlington, Iowa
N. Y. Car Wheel Co., 15 Forest, Buffalo, N. Y., & 771 Greenwich, New York
N. Y. Switch & Crossing Co., Hoboken, N. J.
Peacock's Iron Works, Selma, Ala.

Pittsburg Brake Shoe Co., Farmers B'k hldg, Pittsburg, Pa.

Railway Materials Co., Old Colony bldg, Chicago, Ill.

Reliance Steel Casting Co. (Ltd.), Pittsburg, Pa.

RUSSEL WHEEL & FOUNDRY CO.,
Detroit, Mich. (See adv. index, end of hook.)

St. Louis Car Co. ("K"), 8000 N B'way, St. Louis, Mo.
Spear & Miller Co. ("The Ideal"), Monadnock hlk, Chicago

Standard Brake Shoe Co. ("Standard"), Aurora, Ill.
Swett, A. L. Iron Works, Medina, N. Y.

Taylor Electric Truck Co. ("Taylor"), Troy, N. Y.
Vulcan Iron Works (Relly), Toledo, O.
Welsh Brake Shoe & Foundry Co., East Moline, Ill.

Wharton, Wm., Jr., & Co. (Inc.) (Electric Railway), 25th & Wash'n av, Phila., Pa.
Wheel Truing Brake Shoe Co. (Wheel Grinders), The Lenox, Detroit, Mich.

Brake Slack Adjuster

American Brake Co. (Automatic), 1932 N B'way, New York
Gould Coupler Co., 1 W 34th, New York

*Brake & Electric Car Heating Apparatus (Magnetic)

WESTINGHOUSE TRACTION BRAKE
Co., Pittsburg, Pa.

Braques (Air)

ALLIS-CHALMERS CO. ("Christensen"),
Milwaukee, Wis. (See adv. index & branch offices, end of book)

Dukesmith Air Brake Co., Wahash bldg, Pittsburg, Pa.
Magann Air Brake Co., 4th & Porter, Detroit, Mich.

Merritt Air Brake Mfg. Co., Worcester, Mass.
National Brake & Electric Co. ("Christensen"), 80, Milwaukee, Wis.

New York Air Brake Co., 66 B'way, New York
Philadelphia Air Brake Co. ("Morse-Henley"), Real Estate Trust bldg, Phila., Pa.

WESTINGHOUSE AIR BRAKE CO.
The (Automatic), Pittsburg, Pa.

When writing to firms listed in this book please mention HENDRICKS' COMMERCIAL REGISTER

***Brakes (Air, Storage System)**

INGERSOLL-RAND CO., 11 B'way,
New York. (See adv. index & branch offices,
end of book)
WESTINGHOUSE TRACTION BRAKE
Co., Pittsburgh, Pa.

Brakes (Automobile)

Clark, Edward S., 272 Freeport, Boston, Mass.
Columbus Screw & Machine Co., 244 Kaiser,
Columbus, O.
Globe Machine & Stamping Co., Hamilton av,
Cleveland, O.
Hayden Automatic & Equipment Co. ("Hay-
den"), 26 Cortlandt, New York
Kalisch Air Brake Co., 1315 Chestnut, St.
Louis, Mo.
Long Arm System Co., Cleveland, O.
National Brake & Clutch Co., 16 State, Boston,
Mass.
Royal Equipment Co. ("Raymond"), Bridge-
port, Conn.
Standard Brake Co., York, N. Y.
Watres Mfg. Co. (Power), 1133 B'way, New
York, E. S. ("Sprag"), Reading, Pa. York

Brakes (Car)

Brill, J. G. Co., 62d & Woodland av, Phila., Pa.
Buda Foundry & Mfg. Co., Railway Exchange
bldg, Chicago, Ill.; Works: Harvey, Ill.
Emergency Car Brake Co., Cumberland, Md.
McGuire-Cummings Mfg. Co., 122 N Sangamon,
Chicago, Ill.
Magann, G. P. Air Brake Co., 4th & Porter,
Detroit, Mich.
Massachusetts Steel Casting Co. (The "Neal
Duplex"), Everett, Mass.
Sterling-Meeker Co., 420 Ogden, Newark, N. J.
Taylor Electric Truck Co., Troy, N. Y.

Brakes (Coaster)

Aurora Automatic Machinery Co. ("Thor"),
Aurora, Ill.
Corbin Screw Corporation ("Corbin Duplex"),
New Britain, Conn.
Eclipse Machine Co. ("Morrow"), Elmira, N. Y.
Forsyth Mfg. Co. ("Forsyth"), 306 Terrace,
Buffalo, N. Y.
New Departure Mfg. Co. ("New Departure"),
Bristol, Conn.
Pope Mfg. Co., Hartford, Conn.
Standard Co. ("Standard"), Torrington, Conn.
Straight Mfg. Co., 1451 Niagara, Buffalo, N. Y.

Brakes (Electric Car)

Columbia Machine Works & Malleable Iron Co.
("Columbia"), Atlantic av & Chestnut,
Brooklyn, N. Y.
Emergency Car Brake Co. ("Fresh's"), Cum-
berland, Md.
GENERAL ELECTRIC CO., Schenec-
tady, N. Y., & 44 Broad, New York (See
adv. index & branch offices, end of book)
Magann Air Brake Co., Detroit, Mich.
Nassau Steel Co. (Neal Duplex), 145 Oliver,
Boston, Mass., & Everett, Mass.
National Brake Co. ("Peacock"), Ellicott sq,
Buffalo, N. Y.

Philadelphia Air Brake Co., Real Estate Trust
bldg, Phila., Pa.
St. Louis Car Co., 8000 N B'way, St. Louis, Mo.
Sterling-Meeker Co. ("Momentum" & "Ster-
ling"), 420 Ogden, Newark, N. J.
Traction Equipment Co., 72 Grand, Brooklyn,
N. Y.
United States Steel Co. (Neal Duplex), Everett,
Mass.

***Brakes (Electric Crane)**

ELECTRIC CONTROLLER & SUPPLY
Co., Cleveland, O. (See adv. below & branch
offices, end of book)
WHITING FOUNDRY EQUIPMENT
Co. (Direct Current Solenoid), Harvey, Ill.
(See adv. index & branch offices, end of book)

***Brakes (Electric Motor)**

ELECTRIC CONTROLLER & SUPPLY
Co., Cleveland, O. (See adv. below & branch
offices, end of book)
WHITING FOUNDRY EQUIPMENT
Co. (Direct Current Solenoid), Harvey, Ill.
(See adv. index & branch offices, end of book)

Brakes (Flax)

New Winona Mfg. Co., Winona, Minn.

Brakes (Locomotive)

New York Air Brake Co. (also Tender, Driver,
Freight & Passenger Car), 66 B'way, New
York, & Fisher bldg, Chicago, Ill.
WESTINGHOUSE AIR BRAKE CO.,
The, Pittsburgh, Pa.

***Brakes (Magnetic Friction)**

ELECTRIC CONTROLLER & SUPPLY
Co., Cleveland, O. (See adv. below & branch
offices, end of book)

***Brakes (Solenoid)**

WHITING FOUNDRY EQUIPMENT
Co. (Direct Current), Harvey, Ill. (See adv.
index & branch offices, end of book)

Brakes (Vacuum)

New York Air Brake Co. (& Vacuum Auto-
matic), 66 B'way, New York

Brass Altar Rails & Pulpits

AMOS, CHARLES & CO., 94 W.
Larned, Detroit, Mich. (See adv. index,
end of book)
BUFFALO WIRE WORKS CO., 316
Terrace, Buffalo, N. Y. (See adv. index, end
of book)
JACKSON, WM. H. COMPANY, 29 E
17th (Union square), New York. (See adv.
index, end of book)
Mills, W. J., 639 Kent av, Brooklyn, N. Y.
Murdock-Shaw Co., Boston, Mass.
SMITH, F. P. WIRE & IRON WORKS,
100 Lake, Chicago, Ill. (See adv. index,
end of book)



Every Article Bearing this
Trade Mark has Distinctive
Merit in Craftsmanship
and Artistic Finish.
UNION EQUIPMENT AND BRONZE CO.
514-520 WEST 36TH ST. NEW YORK.

WRITE FOR PRICES

**WINSLOW BROS. CO. (Iron, Brass &
Bronze), Main Office & Works, 2525 W Har-
rison, Chicago, Ill. (See adv. index & branch
offices, end of book)**

WISCONSIN IRON & WIRE WORKS,
190 E Water, Milwaukee, Wis. (See adv.
index, end of book)

Brass Angles, Channels, Etc.

(See Brass & Copper Angles, Channels, etc.)

Brass Bolts

(See Bolts, Brass & Copper.)

Brass Founders

See Bell Founders,
Bell Mfrs.,
Castings Brass,
Fire Place Furnishings,
Hardware Mfrs.,
Machinists and Founders.
Plumbers' Brass Goods,
Valve Mfrs.,

Brass Founders' Supplies

(See Foundry Facings & Supplies)

Brass Nails

(See Nails, Brass & Copper.)

Brass Railings

(See Bank & Office Railings.)

Brass Rivets

(See Rivets, Brass & Copper.)

Brass Rods

(See Rods, Brass & Copper.)

Brass (Rolled)

HARDY, WM. A. & SONS CO., Fitch-
burg, Mass. (See adv. index, end of book)

Brass Screws

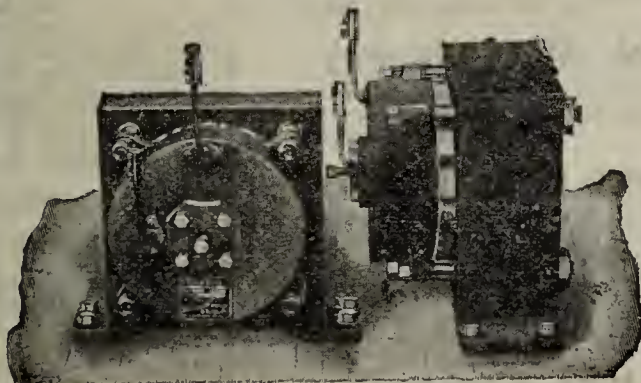
(See Screws, Brass & Copper.)

Brass Sheets

(See Copper & Brass Sheet.)



Send for
Bulletin
No. 184



TYPE "Q" FORM "F" BRAKE 50 H. P.

TYPE "Q" BRAKES

1 to 100 H. P. 110-220-500 VOLTS
FOR ELECTRICALLY DRIVEN MACHINERY,
RELIABLE UNDER ALL OPERATING
CONDITIONS AND UNAFFECTED
BY DIRT OR MOISTURE.

THE
**ELECTRIC CONTROLLER
AND SUPPLY CO.**
CLEVELAND, O.

Brass Tubes

(See Tubing, Brass & Copper.)

Brass Wire

(See Wire, Brass & Copper.)

**Brass & Copper Angles,
Channels, Etc.**

Ansonia Brass & Copper Co., Ansonia, Conn., & 99 John, N. Y.
 Benedict & Burnham Mfg. Co., Waterbury, Conn.
 Bridgeport Brass Co., Bridgeport, Conn., & 19 Murray, New York
 Coe Brass Mfg. Co., Torrington, Conn.
 Detroit Copper & Brass Rolling Mills, Detroit, Mich.
 Hungerford, U. T. Brass & Copper Co., 497 Pearl, New York
 Manhattan Brass Co. (Brass & Bronze), 334 E 28th, New York
MERCHANT & EVANS CO. (Inc.)
 (Jobbers), 517 Arch, Phila., Pa. (See adv. index & branch offices, end of book)
 Rome Brass & Copper Co., Rome, N. Y., & 100 William, New York

UNION EQUIPMENT AND BRONZE CO.

(Jobbers), 520 W 36th, New York. (See adv. outside stencil)

Waterbury Brass Co., Waterbury, Conn.

Brasses (Car & Engine)

Atlantic Brass Co., 192 B'way, New York
 Brady Brass Co., Jersey City, N. J.
CONTINENTAL CAR & EQUIPMENT
 Co., 17 Battery pl, New York. (See adv. index, end of book)
 Edna Smelting & Refining Co. (for Steam or Electric), 525 Reading rd, Cincinnati, O., & Monadnock blk, Chicago, Ill.
 Gilbert, A. & Sons Brass Foundry, St. Louis, Mo.
 McCartney, Josiah, Bay City, Mich.
 Magnus Metal Co., Buffalo, N. Y.
 More-Jones Brass & Metal Co., St. Louis, Mo.
 Newell, J. F. & Co., Gardiner, Me.

Brazing Apparatus

(See Blow Pipes & Brazing Apparatus.)

Brazing (Cast Iron)

(See Cast Iron Brazing)

Brazing Compound

American Ferrofix Co., New York
DIXON, JOS. CRUCIBLE CO., Jersey
 City, N. J. (See adv. index & branch offices, end of book)
 Ferrofix Brazing Co. of Philadelphia, 2026 Cuthbert, Philadelphia, Pa.
 Krembs & Co. ("Fluxine"), Chicago, Ill.
 Reece, J. A. ("Woltz"), Washington, D. C.
 Standard Brazing Co. (Inc.), Board of Trade bldg, Boston, Mass.

Breakers (Casting or Scrap)

Curtis & Co. Mfg. Co. (Compressed Air), St. Louis, Mo.
WHITING FOUNDRY EQUIPMENT
 Co., Harvey, Ill. (See adv. index & branch offices, end of book)

Breakers (Circuit)

Boston Electric Co., 29 Harrison av, Boston, Mass.
 Carpenter Enclosed Resistance Co., 78 E 131st, N. Y.
 Condit, S. B., Jr., & Co., 63 Oliver, Boston
 Cutler-Hammer Mfg. Co., Milwaukee, Wis., & 136 Liberty, N. Y.
 Cutter Co. ("Dal-ite"), 19th & Hamilton, Phila., Pa.
 Fisher Electrical Works, 183 Larned, Detroit, Mich.
 Fort Wayne Electric Works, Ft. Wayne, Ind.
GENERAL ELECTRIC CO., Schenectady,
 N. Y., & 44 Broad, New York. (See adv. index & branch offices, end of book)
 General Equipment Co., Camden, N. J.

General Incandescent Arc Light Co., 529 W 34th, New York
 Hartman Circuit Breaker Co. (Automatic Oil Circuit for Cars, etc.), Mansfield, O.
 Jones, J. & Son (Electric Light), 62 Vesey, New York
 LaRoche, F. A. Co., 656 Hudson, N. Y.
 McCarthy Bros. & Ford, 41 Eagle, Buffalo, N. Y.
 North Bros. Mfg. Co., Lehigh av & American, Phila., Pa.
 Ohio Brass Co. (Automatic), Mansfield, O.
 Sundh Electric Co. ("Sundh"), 115 Cedar, New York
 Switchboard Equipment Co. ("S-E"), Bethlehem, Pa.
 Western Electric Co., 259 S Clinton, Chicago, Ill., & 57 Bethune, New York
WESTINGHOUSE ELECTRIC & MFG.
 Co. (Alternating & Direct Current), Pittsburgh, Pa. (See adv. index & branch offices, end of book)

***Breakers (Gyratory)**

ALLIS-CHALMERS CO., Milwaukee,
 Wis. (See adv. index & branch offices, end of book)

***Breakers (Magnetic Re-Set
Circuit)**

ELECTRIC CONTROLLER & SUPPLY
 Co., Cleveland, O. (See adv. index & branch offices, end of book)

Breakers (Stone)

(See Rock & Ore Crushers)

**Brewers' & Maltsters'
Machinery**

(See Machinery, Brewers' & Maltster's.)

Brick Ashlar

(See Architectural Faience.)

Brick Dryers

(See Dryers, Brick.)

Brick Handler

Empire Forge & Iron Co. ("Empire"), Buffalo, N. Y.
 Union Brick Bond Co., Arrott Power bldg, Pittsburg, Pa.

Brick Mfrs. (Acid Proof)

Denny-Renton Clay & Coal Co. (For Chemical Works), Seattle, Wash.
 Laclede Fire Brick Mfg. Co., St. Louis, Mo.
 Louisville Fire Brick Works, Louisville, Ky.
 Ostrander Fire Brick Co., Troy, N. Y.

Brick Mfrs. (Cement)

Harper Brick Co., Harrison, N. J.
 Universal Cement Brick and Block Co., Webster av near 200th, New York
 White Marble Lime Co., Manistique, Mich.

Brick Mfrs. (Chemical)

Remmey, Richard Sons Co. (For Glover Towers), 2637 E Cumberland, Phila., Pa.

Brick Mfrs. (Chrome)

Federal Refractories Co., Cleveland, O.
 Harbison-Walker Refractories Co., Farmers Bank bldg, Pittsburg, Pa.

***Brick Mfrs. (Clinker)**

LUDOWICI-CELADON CO. ("Devon-
 shire"), 515 Cuyahoga bldg, Cleveland, O., & 156 5th av, New York. (See adv. index & branch offices, end of book)
SAYRE & FISHER CO. (Dutch), 261
 B'way, New York; Works: Sayreville, N. J. (See adv. Front Inside Cover)

***Brick Mfrs. (Clinker Paving)**

FLEMING & CO. (Adamantine
 Clinker), 123 Liberty, New York. (See adv. index, end of book.)

Brick Mfrs. (Common)

See also Brick Mfrs., Clinker.
 Brick Mfrs., Enameled.
 Brick Mfrs., Fire Flashed.
 Brick Mfrs., Fire.
 Brick Mfrs., Furnace Arch & Roof.
 Brick Mfrs., Front.
 Brick Mfrs., Glazed.
 Brick Mfrs., Granite Pressed.
 Brick Mfrs., Hollow.
 Brick Mfrs., Pompellian.
 Brick Mfrs., Porous. See Fire-Proof Porous Brick & Tile.

Brick Mfrs., Silica.
 Brick Mfrs., Vitrified Paving.
 Brick Mfrs., White.
 Blocks, Hollow Building.
 Conduits.
 Fire-Proof Hollow Brick & Tile.
 Roofing Tile, Terra Cotta.
 Plumbers' Sanitary Earthenware.
 Sewer Pipe Mfrs.
 Terra Cotta, Architectural.
 Tile, Art, etc.

ALABAMA.

ASHBY—Ashby Brick Co.
 Nelson Fire Brick Co.
 AVONDALE—Daniel, F. B.
 BIRMINGHAM—Ashby Brick Co.
 Birmingham Brick Co.
 Birmingham Sand, Lime, Brick & Stone Mfg. Co.
 Copeland Brick Co., 44 E Birmingham
 Graves Shale Brick Co.
 Leak, J. D.
 Mozley, Wm. F., Kingston
 Riverside Brick Co.
 BREWTON—Strong, W. H. Brick Co.
 MONTGOMERY—Excelsior Brick & Coal Co.
 McIntyre Brick Co.
 Riverside Brick Co.
 BRICKYARD—Bickerstaff Brick Co.
 CHOCOLOCCO—Morris Brick Co.
 DEMOPOLIS—McGrath Bros.
 ELBA—Perdue, W. B. & Co.
 GREENVILLE—Terrill, W. C.
 HUNTSVILLE—Huntsville Brick Co.
 MOBILE—Hale, F. K.
 Kentz, Jos.
 MONTGOMERY—Excelsior Brick Co.
 Holt Brick Co.
 McIntyre Bros.
 Riverside Brick Co.
 NATCHEZ—Walston, H. C.
 NEW DECATUR—North Alabama Brick Co.
 SELMA—Selma Brick & Tile Co.

ARIZONA.

PHOENIX—Alhambra Brick Co.
 PRESCOTT—Fitzsimmons, T. E.

ARKANSAS.

FORT SMITH—Carbaugh, J. D.
 Fort Smith Pressed Brick & Tile Co.
 Sulphur Springs Brick Co.
 HELENA—Straub & Straub Pressed Brick Co.
 HOT SPRINGS—Judd & Latz
 LITTLE ROCK—Arkansas Brick & Mfg. Co.
 Little Rock Brick Works.
 SEARCY—Woodson, J. Y.
 TEXARKANA—Stevens, A. W.
 Texarkana Brick Co.

CALIFORNIA.

ALAMEDA—Clark, N. & Sons
 BAKERSFIELD—Bakersfield Brick Co.
 Kern County Brick & Contract Co.
 FRESNO—Craycroft, C. J. & Son
 Fresno Brick & Tile Co.
 KENNET—Holt & Gregg Co.
 LOS ANGELES—Berg & Oxby, 602 Lankershim bldg
 California Ornamental Brick Co., Mason Op House
 L. A. Pressed Brick & T. C. Co., 105 S. B'way
 Los Angeles Brick Co., Trust bldg.
 Simons Brick Co., 123 W 3d
 So. California Brick Co., Hellman bldg
 Standard Brick Co., Stimson bldg
 OAKLAND—Carnegie Brick & P Co., Adams Wharf
 Remillard Brick Co., 659 Clay
 PASADENA—Simons Brick Co.
 POMONA—Pomona Brick Co.
 RED BLUFF—Holt & Gregg Co.
 REDDING—Holt & Gregg Co.

REDLANDS—Taylor Bros. Brick Co.
 RIVERSIDE—Riverside Brick & Lime Co.
 SAN DIEGO—Hubbard, Robert M.
 SAN FRANCISCO—Baden Brick Co., 927 Market
 Bay View Brick Co., Mills bldg
 Pacific Sand & Lime Brick Co., 137 Mont-
 gomery
 Patent Brick Co., Safe Deposit bldg
 Remillard Brick Co., Berry, bet 6th & 7th
 Richmond Brick Co., 126 Davis
 Sacramento Transportation Co., 3d & Berry
 San Francisco Brick Co., Wells Fargo bldg
 San Jose Brick Co., 708 Market
 Simons-Fout Brick Co., 18th & Corbett av
 Wheeland Brick Co., 431 California
 SAN JOSE—San Jose Brick Co.
 SANTA ANA—Grouard, C. E.
 STOCKTON—San Joaquin Brick Co.
 WOODLAND—Wane, W. H.

COLORADO.

BOULDER—Boulder Pressed Brick Co.
 Lee, W. S.
 COLORADO SPRINGS—Brewer, Ben, Brick Co.
 Schlusser Bros.
 DENVER—Baker, A. J., Clayton av, bet E 7th
 & E 8th avs
 Boulder-Shale Brick Ass'n, Jacobson bldg
 Boyle, Mrs. Wm. E., 34th av nr Clarence
 Brann-Leonard Brick Co.
 Casey, Thomas W.
 Clark Bros., Decatur cor W 9th av
 Colorado Brick Manufacturing Co.
 Colorado Brick Supply Co.
 Colby Bros., Elizabeth nr E 35th av
 Colfax Pressed Brick Co., 418 Exch bldg
 Denver Pressed Brick Co., Temple ct
 Duffy Patrick H.
 Denver Sewer Pipe & Clay Co., Conti-
 nental bldg
 Denver Terra Cotta Lumber Co., 1324 S
 Tremont
 Excelsior Brick Co., S York & E Colorado
 av
 Fairview Brick Co., Decatur cor W 18th av
 Golden Pressed & Fire Brick Co., 431 15th
 Hendry & La Shell.
 Keefe Mfg. & Investment Co., Exchange
 bldg
 Kersting, Fritz
 Knight, C. R., S Race & Colorado av
 Lundin Bros.
 McCabe, Jno. M., E 37th av nr St Paul
 McCabe, Thomas
 Merchant, B. F., Continental bldg
 Reinhardt, Mrs. Lena
 Robinson Brick Co., S Gaylord nr E Mex-
 ico av
 Rogers, Patrick
 Rowe, E. E. & Co., 1250 Boul F
 Villa Park Brick Co.
 Western Brick & Construction Co.
 LA JUNTA—La Junta Brick & Tile Co.
 PUEBLO—Colorado Brick & Tile Co.
 Standard Fire Brick Co., Summitt, bet.
 25th & 26th
 Summitt Pressed Brick & Tile Co.

CONNECTICUT.

BERLIN—American Brick Co.
 Jacobs, Marcus E.
 Merwin, C. P. Brick Co.
 Murray, Richard
 Standard Brick Co.
 BROOKLYN—Quinebaugh Brick Co.
 DANIELSON—Quinebaugh Brick Co.
 EAST WINDSOR HILL—East Windsor Hill
 ELMWOOD—Elmwood Brick Co. Brick Co.
 Park Brick Co.
 HARTFORD—Curtis, D. J. & Son, 737 Windsor
 av
 Dorr, Cephas, New Park av
 Hartford Brick Co., 25 Front
 Kane, Michael, 190 New Park
 Mills, Elijah & Son, Tower av
 Parkville Electric Brick Co., 270 Prospect av
 MIDDLETOWN—Johnson, J. D.
 Tnttle Brick Co., Newfield, at R. R. station
 NEW BRITAIN—Donnelly Brick Co.
 Holmes, Jno. W.
 New Britain Brick Co.
 Tower Bros., Stanley nr S Main
 NEW HAVEN—Central New England Brick
 Ex. Co., 169 Orange
 Davis, Wm. E. & Co., 169 Orange
 Howard Co., 250 Boulevard
 Montowese Brick Co., 916 Church
 Stiles, I. L. & Son Brick Co., 335 East
 Stiles & Hart Brick Co.
 Stow, S. J. (Stove), 763 State
 NEW LONDON—Fisher's Island Brick Mfg.
 Co., 81 State
 NORTH HAVEN—Brockett, F. H.
 Shares, F. J.
 Stiles, I. L. & Son Brick Co.

NORWICH—Peck, McWilliams & Co.
 THOMPSONVILLE—Allen Brick Co.
 WILSON—Baker, Fred
 Wilson, S. H.

DELAWARE.

DELMAR—Elliott, W. B.
 LINCOLN—Sackett, Chas. H. & Co.
 NEWARK—Johnson, Jonathan
 WILMINGTON—Allan, Alvan Brick Co., 915
 Market
 Delaware Terra Cotta Co., 10 W 8th
 Oberly, James B., Lancaster & Greenville
 Wilmington Brick Co. avs

DISTRICT OF COLUMBIA.

WASHINGTON—American Granite Brick Co.,
 Home Life bldg
 Anacostia Brick Co., 702 11th, N. W.
 Diggs, E. R. & Co., 716 13th N W
 Ford, Chas. (Est. of), 2 M, S W
 Grinder, Edw. M., 1001 1st, S E
 Herrell, H. A. & Co., 19 & B, N E
 Laurel Clay Products Co.
 Martin & Bro., 1504 S Capitol
 New Washington Brick Co., 1420 N. Y. av.,
 Potomac Brick Co., 1413 G, N W N W
 Richards Alfred Brick Co.
 Richards, Jas. H., 1117 N. J. av., S. E.
 Rosslyn Brick Co., 1321 F, N W
 Virginia Brick Co., 930 F, N W
 Walker, Wm. T. Brick Co., 8 Corcoran bldg
 Washington Brick & Terra Cotta Co., 3d,
 cor O. S. W.
 Washington Hydraulic Press Brick Co.
 West Bros. Brick Co., 718 15th, N W

FLORIDA.

CALLAHAN—Mickler, Oscar O.
 CAMPVILLE—Campville Brick Co.
 JACKSONVILLE—Jacksonville Brick Co.
 LAKE CITY—Lake City Brick Co.
 PALATKA—Brown Brick Co.
 PINE BARREN—McMillan Brick Co.
 ROBERTS—Bonifay, B. M. & Son
 SORRENTO—Sorrento Brick & Lumber Co.

GEORGIA.

ALBANY—Albany Brick Co.
 Cruger & Pace
 ATHENS—Athens Brick Co.
 ATLANTA—Capital City Brick Co., 5 S Broad
 Chattahoochee Brick Co., Fourth National
 Bank bldg
 Palmer Brick Co., Fourth Nat'l Bank bldg
 South River Brick Co., 24 Walton
 AUGUSTA—Dunbar, B. S.
 McCoy Brick & Tile Co.
 Merry Bros.
 Rutherford, W. J. & Co.
 Standard Brick Co.
 BAINBRIDGE—Patterson, L. F.
 CALHOUN—Calhoun Brick Co.
 COLUMBUS—Berry, Geo. O. & A. F.
 Shepard Bros.
 ELBERTON—Elberton Brick Co.
 GAINESVILLE—Pfeffer, Mrs. P.
 HAWKINSVILLE—Snowden, T. H.
 LUDOWICI—Liberty Brick Co.
 MACON—Anderson, W. F.
 Central City Brick Co.
 Macon Brick Co.
 MILLEDGEVILLE—McMillan, J. W. & Son
 ODESSA—Morris, J. S.
 ROME—Morrison Trammell Brick Co.
 Rome Brick Co.
 SAVANNAH—Merry, P. B., 41 Drayton
 Rothwell, B., 228 Montgomery
 Savannah Building Supply Co., 41 Drayton
 UNION POINT—Ogeechee Brick Co.
 WEST POINT—Jones, Lafayette
 McPherson, N. B.

IDAHO.

GRANGERVILLE—Holz, Valentine & Son
 LEWISTON—Tetterling, J. A.
 SAND POINT—Sand Point Brick Co.

ILLINOIS.

ABINGDON—Abingdon Paving Brick & Tile Co.
 ALEDO—Townesley, B. F.
 ALEXIS—Townesley, Thos.
 ALTON—Acme Pressed Brick Co.
 Alton Paving, Building & Fire Brick Co.
 Corbett, Thos.

ASHMORE—Ogle, H. A. & Co.
 AVON—Avon Milling & Mfg. Co.
 BARRY—Chilton, C. H.
 BEARDSTOWN—Meyer, H. C.
 BELLEVILLE—Belleville Brick Co.
 Ittner, A. Brick Co.
 Kloess Brick Co.
 Standard Brick Co. (Capacity 12,000,000)
 BELVIDERE—Belvidere Brick Co.
 BENSON—Peterson, S. & C. T.
 BETHANY—Fortner, W. D.
 BLOOMINGTON—Bloomington Pressed Brick Co.
 Cannon, Wm. M.
 Heafer, Edgar M. Tile Co.
 Holmes, J. B. & Co.
 McGregor, J. H. Brick Co.
 BUDA—Churchill, Horatio
 BUSHNELL—Lauterbach, E. D.
 CAIRO—Ferguson, Thos. & Co.
 Halliday, W. R.
 CAMPUS—Mamer Bros.
 CANTON—Ellis, W. W. & Son
 Heckard & Son
 Roller, Geo. B.
 CAPE GIRARDEAU—Cape Girardeau Pressed
 Brick Co.
 CARBON CLIFF—Argilla Works.
 CARLINVILLE—Moody & Son
 CARLYLE—Holdener, J. D.
 CASEY—Weaver, Joel & Son
 CERROGORDO—Bruaw, Henry & Son
 CHAMPAIGN—Sheldon Brick Co.
 CHANDLERVILLE—Zorn, Aug.
 CHATSWORTH—Walter, Geo. J.
 CHICAGO—American Brick Co., 4500 S Robey
 & W 45th
 Bach Brick Co., 1937 N Western av
 Bonner & Marshall Co., 1107 Chamber of
 Commerce bldg
 Brown, J. H., 138 Washington st
 Burke, Alex. S., cor 40th av & W 19th
 Calumet Brick Co., 323 Chamber of Com-
 merce bldg
 Chicago Brick Co., 138 Washn
 Chicago Hydraulic Pressed Brick Co., 138
 Comins, C. & Co., 624 W. 63d Washn
 Curtis, Alonzo Brick Co., 1107 Chamber of
 Commerce bldg
 Evans, Rothwell H., 112 Clark
 George, Peter A., 97 Clark
 Heimann, G. J. & Co., Irving Park boul &
 California av
 Illinois Brick Co., 138 Wash'n
 Jenkins & Reynolds Co. (Mrs. Agents),
 Chamber of Commerce bldg
 Kelly, A. W. & Co., 242 W 63rd
 Kemnitz & Schneider, 1258 Oakdale av
 Kimbell, S. S. Brick Co., 138 Wash'n
 Labahn Brick Co., 92 La Salle
 Lakeview Brick Co., N. S. W. Irving Park
 boul west of river
 Marion Brick Works, 9 Jackson boul
 Moore, E. H., 145 LaSalle
 National Brick Co., 84 LaSalle
 Murphy & Lorimer Brick Co., 120 Randolph
 Purington Paving Brick Co., 138 Washn
 Sexton, John M. L., W 39th & Leavitt
 Tiffany Enamelled Brick Co., 138 Washn
 Union Pressed Brick Co., Chamber of Com-
 merce bldg

COAL VALLEY—Hass, Jno. T. & Son
 COLCHESTER—King, Moses
 COLLINSVILLE—American Hydraulic Press
 Brick Co.
 Illinois Hydraulic Press Brick Co.
 CULLOM—Ortman, F. A.
 DANA—Miller, A. M.
 DANVILLE—Danville Brick & Tile Co.
 Western Brick Co. (Yearly Capacity 60,-
 000,000 Wire Cut & Re-Pressed)
 DAYTON—Chicago Retort & Fire Brick Co.
 DECATUR—Decatur Brick Co.
 DELAND—Moody, R. B.
 DELAVAN—Tilbury, W. C.
 DUNDEE—Haeger, D. H. (est of)
 EARLVILLE—Earlville Brick & Tile Mfg. Co.
 EAST PEORIA—Carter, F. R.
 EDINBURG—Van de Veer, C. W.
 EDWARDSVILLE—Richards, Benj. H.
 EDWARDSVILLE—Banner Clay Works (Build-
 ing & Sewer)
 ELGIN—Elgin Brick & Tile Co.
 ENFIELD—Rimley, Jos.
 EQUALITY—McIntyre, Wm. & Son
 FARMER CITY—Arbogast & Son
 FLANAGAN—Patton, H. C.
 FRANKLIN—Wright, A. H.
 FREEPORT—Grant, Thos.
 Trunk, Frank
 GALESBURG—Purington Paving Brick Co.
 GILMAN—Wild, James W.
 GRAYVILLE—Wheatcraft, W. G.
 GREENUP—Ward, J. H.

GRIDLEY—Holdridge, I. G. & Co.
 HAMPSHIRE—Backus & Sholes
 HARRISBURG—King, Robert
 HARVEL—Smith & White (Tile)
 HIGHLAND—Miller, Louis
 HIGHLAND PARK—Mooney Bros.
 HILLSBORO—Hillsboro Brick & Tile Co.
 HOMEWOOD—Rabe, John P.
 HUTSONVILLE—Hutsonville Brick & Tile Co.
 ILLIOPOLIS—Baldridge, M. I.
 INDIANOLA—Davenport, Geo. W.
 JACKSONVILLE—Howe, Dan'l W.
 Whitmer, E.
 JOLIET—Shaw, Josiah E., 2307 E. Cass
 Shaw, Silas, Brick Co.
 KANKAKEE—Kankakee Tile & Brick Co.
 LA SALLE—La Salle Pressed Brick Co.
 LINCOLN—Lincoln Coal Co.
 LITCHFIELD—Chamberlain, Jno. W. & Son
 LITTLE YORK—McCoy & Co.
 LODA—Loda Brick & Tile Co.
 LOMBARD—Lombard Brick & Tile Co.
 LOSTANT—McShane, Richard
 McQUEEN—Elgin Brick & Tile Co.
 MACKINAW—Judy, F. D.
 MACOMB—Tiernan, P. H.
 MANCHESTER—Heaton, J. M. (Tile)
 MARTINSVILLE—Snively, L. C.
 MASCOUTAH—Masco Utah Brick Co.
 MATTOON—Belting, Theo.
 Mattoon Tile Co.
 MAZON—Martiu, F. A.
 MECHANICSBURG—Mechanicsburg Brick & Tile Co.
 MENDOTA—Harbough, C. A.
 METCALF—Jones, J. H.
 MILFORD—Marquis, D. M.
 Prutsman, A. P.
 MINONK—Clark & Pickard
 Goodwin, Jno.
 MOLINE—Abraham, Oscar D.
 Karlins, August Moline Mfg. Co. (E. M.)
 Tri-City Sand Stone Brick Co.
 MOMENCE—Tiffany Enameled Brick Co.
 MONMOUTH—Monmouth Brick Co.
 MONTICELLO—Lodge, W. F.
 MORRIS—Buck Bros.
 Telfer, Alex. W.
 MORTON—Rapp Bros.
 MOUNT CARMEL—Reed Bros.
 Tilton, M. L.
 MOUNT OLIVE—Weidler, Chris.
 MOWEAQUA—Frazee, Oscar
 NAPERVILLE—Martin & Van Oven
 NEWBERN—McNeil Pressed Brick Co.
 NEW MEMPHIS—Niemeyer Bros.
 NORTHAMPTON—Goodwin, Thos.
 ODIN—Cook, H. V.
 OKAWVILLE—Schlechte, Wm.
 OLNEY—Olney Paving Brick & Tile Co.
 ONARGA—Barnes, Horace.
 OTTAWA—Swift, F. E.
 PANA—McCarthy Bros.
 PAXTON—Anderson, Martin
 Paxton Brick & Tile Co.
 PEORIA—Bartonville Brick Co. (near)
 Carter, Fred R., E Peoria
 Dalton, Jas., Gale av & University
 Fox, William, 1011 N Elizabeth
 Giles, Albert E., 305 Frye av
 Hydraulic Pressed Brick Co., Woolner bldg
 Kanne Bros. & Co., E. Peoria
 Madigan, Jno., 7th av & Sterling
 Mauerman, Frank (near)
 Randall, Albert (near)
 PERU—Unzicker, Robert
 PETERSBURG—Anderson & Gum (Tile)
 Salvason & Dawson
 PITTSFIELD—Huseman August
 POLO—French, Geo.
 PRINCETON—Oberschelp, H. G.
 Wagner, Jacob
 QUINCY—Abbott Wm. K.
 Brackensick, Jno. & Bros.
 Damborst Bros.
 Gem City Paving Brick Co.
 Sanders, Bernard
 Spilker, Adolf
 Stockhecker, Herman H.
 Stroot, J. H., 1100 Cherry
 RAMSEY—McKnight, H. B.
 RANKIN—Patten, H. & Bro.
 RAY—Ray Tile Works
 REDDICK—Reddick Brick & Tile Co.
 REDMON—Rhodes, M. L.
 RIDGELY—Mester Bros.
 ROANOKE—Willems, Geo. H.
 ROBERTS—Anderson & Kenward
 ROCKFORD—Superior Brick Co.
 ROCK ISLAND—Atkinson Olof (So. R. I.)
 Black Hawk Clay Mfg. Co.
 Paulsen Haus (est. of), So. R. I.
 Redecker, B. & H., S. H.
 Richmond, Geo. H., 12th & Richmond

ROSEVILLE—Bird & Pratt
 ROSSVILLE—Redden & Portlewait
 SHELBYVILLE—Flanders, Stephen
 Martz Bros.
 SPRINGFIELD—Dawson Brick & Tile Co.
 King & Bartelme
 Mester Bros.
 Sangamo Brick Co.
 Springfield Paving Brick Co.
 STREATOR—Barr Clay Co.
 Eagle Clay Works
 Hardscrabble Brick & Tile Co.
 Streeter Paving Brick Co. (Building, Side-
 Willey, Thos. walk & Foundation)
 STRONGHURST—Steffey, S. A. D.
 SULLIVAN—Pifer, F. E.
 Witts & Witts
 TALLULA—Hugenberger, Husmann & Hecker
 TAYLORVILLE—Anderson Bros.
 TEUTOPOLIS—Deyman, George
 THOMASBORO—Peters, F. J.
 TOULON—Headley, J. P.
 TROY—Hoge, Rudolph
 TUSCOLA—Hall, Jacobson & Co.
 UTICA—Utica Firebrick Co.
 VIRGINIA—Paul & Henderson
 WADSWORTH—Cashmore, John
 Winter, I. S. & Sons
 WALNUT HILL—Walnut Hill Press Brick Co.
 WATERLOO—Burkhardt, Jacob
 WAYERLY—Doerfer, Conrad
 WAYNESVILLE—Yeakel Bros.
 WOODLAND—Anderson, J. W.
 WOODSON—Tendrick & Thies
 YORKVILLE—Tarbox, A. & E.
 ZENOBIA—Farnam, D. A. & Co.

INDIANA.

AKRON—Gast, A. A.
 ALBION—Landgraff, Frank
 ANDERSON—Davis Bros.
 Indiana Brick Co. (daily capacity 150,000)
 ARCADIA—Arcadia Brick Works
 ATTICA—Le Clair, Jos.
 BARNARD—Hill, J. C. (Tile)
 BERNE—Gattschalk, A. Z. (Tiles)
 BIPPUS—Bippus Tile Co.
 BOONVILLE—Lowell Bros & Co. (Tiles)
 BRAZIL—Ayers & McCarel Clay Co.
 Brazil Clay Co.
 Chicago Sewer Pipe Co.
 Excelsior Clay Works
 Indiana Paving Brick & Block Plant
 McRoy Clay Works
 Sheridan Brick Works
 BROOK—Brook Terra Cotta Tile & Brick Co.
 BROOKVILLE—Fries, Anthony & Sons
 BROWNSTOWN—Brownstown Brick & Tile Co.
 CARBON—Simpson, Benjamin
 CASTLETON—Johnson, Jno. J.
 CAYUGA—Cayuga Brick & Coal Co.
 CHESTERTON—Anderson, P. E. & Son
 CLARKSHILL—Coyner, M. P. (Tile)
 CLAY CITY—Clay City Brick & Clay Co.
 Kaiser, Geo. T.
 CLINTON—Clinton Paving Brick Co.
 COATESVILLE—Ellis, E. R.
 COLUMBUS—Crump, F. T.
 CONNERSVILLE—Fries, A. & Sons
 CRAWFORDSVILLE—Everson & Ferguson
 Lee, M. J.
 CURTISVILLE—Curtisville Tile & Brick Co.
 CYNTHIANA—Redman Eros.
 DALEVILLE—Daleville Brick Co.
 Letter, B. F.
 DECATUR—Krick, Tyndall & Co.
 EDGERTON—Auspach, J. P. & Son
 ELBERFELD—Gerwes & Thene
 ELIZABETHTOWN—Glick, Chas.
 ELKHART—Boss, J. K.
 ELWOOD—Rodefer, John F.
 EVANSVILLE—Evansville Pressed Brick Co.
 W S Stringtown rd, N of Belt Rv
 First Av. Brick & Tile Co., 328 Sycamore
 Helfrich Lumber & Mfg. Co., 615 W
 Franklin
 Heseman, Mrs. Sophia, N S Green River rd
 Klammer Bros., Upper Mt Vernon rd c
 Barker av
 Standard Brick Mfg. Co., 328 Syracuse
 Watermann, Jno. S., West Eight
 Wedeking, Ernest, Wedeking's la
 FARMERSBURG—Bennett, Ira W.
 FORT BRANCH—Polk & Genung
 FORT WAYNE—Ft. Wayne Brick & Tile Co.
 Moellering, Wm., 53 Murray
 FRANCESVILLE—Francesville Brick & Tile
 FRANCISCO—Stormont, W. H. & Sons Co.
 FRANKFORT—Hall, Jno.
 FRANKLIN—Davis, Jas. F.
 Halsted, E. O.

FREELANDVILLE—Hummerich, B.
 Meyer, Chas.
 FULTON—Swick & Co.
 GREENE—Martin, O. & Son
 GREENFIELD—Greenfield Brick Co.
 Greenfield Brick Works
 GREENSBURG—Isgrigg, W. H.
 HARTFORD CITY—Meridith & Croninger
 HOAGLAND—Small & Barkley
 HOBART—Kulage Brick & Tile Co.
 HOMER—Arbuckle & Son
 HOPE—Miller & Rominger
 Stamm, R. D.
 HUNTINGBURG—Bockting, Sebastian
 Huntingburg Dry Press Brick Co.
 INDIANAPOLIS—Adams Brick Co., Majestic
 Bremer, Fred'k, Sherman Drive bldg
 Brill, John, Jr., 2380 Madison av
 Ellering, Herman, Bethel av nr Zwingley
 Indiana Paving Brick & Block Co., Traction
 Terminal bldg
 Magennis, Jas., Sherman Drive
 Marion Brick Works, Majestic hldg
 Quack, Chas. C., 3524 Prospect
 Sheridan Brick Works, Majestic hldg
 Western Brick Co., Majestic bldg
 JEFFERSONVILLE—Jeffersonville Brick Co.
 KENDALLVILLE—Dickinson, Frank E.
 KOKOMO—Leach, J. M. & Co.
 LAFAYETTE—May, Jacob & Sons
 Star City Brick Co.
 LAKE STATION—Cement Brick Co.
 LAPEL—White, S. C.
 LAWRENCEBURG—Mitchell Brick Co.
 LEO—Conrad, Jno.
 LINTON—Linton Brick Mfg. Co.
 LOGANSPOUT—Barnes, Jno. E. & Sons
 LOWELL—Clark Mfg. Co.
 MADISON—Ross & Kimmell
 MARION—Marion Brick Works
 MARTINSVILLE—Adams Brick Co.
 Clark, Jno. B.
 MATTHEWS—Matthews Clay Pot & Fire Clay
 Mellett—Carpenter, Dan'l (Tile) Co.
 METZ—Gast & Shoemaker
 MICHIGAN CITY—Ohlemacher Brick Co.
 Roeske Bros.
 MILLGROVE—Inman, Eli & W. A.
 MONROE—Lewellen & Smith.
 MONROE CITY—Bonewits, Peter
 MONTEZUMA—Marion Brick Works
 MONTMORENCI—Kneale, Henry (Tile)
 MORAN—Hill, W. D. (Tile mfr.)
 White, N. E. & Co. (Brick mfrs.)
 MORAN—Thomas, Levi L.
 MOUNT COMFORT—Taylor, A. R. (Tile)
 MUNCIE—Bennett Brick Co.
 Mock, J. D.
 NEW ALBANY—Goetz Pressed Brick Co.
 Hoosier Brick Co.
 NEW BURLINGTON—Chalfant, Geo.
 NEW CASTLE—Newcastle Brick & Tile Co.
 NEW RICHMOND—Lee, H. K. (Tile)
 OAKVILLE—Holsinger, J. T.
 OCKLEY—Hannell, Jos.
 Stanton, A. T.
 ODON—Smiley & Son
 ORESTES—Powell, Jos. M. (Tile)
 OSSIAN—Beaty & Doan
 PERU—Clifton, John & Son
 PETERSBURG—Read, Thomas
 PITTSBORO—Dillon, R. L.
 PNETO—Cook, J. W.
 PORTER—Chicago Hydraulic Pressed Brick Co.
 PREBLE—Werling, David
 PRINCETON—Mitchell & Watt
 Read Bros.
 REMINGTON—Green & Bowman
 RENSSELAER—Irwin, J. F. & Sons
 RICHMOND—Mather Bros. Co.
 Thistlethwaite, William C.
 ROACHDALE—Rice, James A. & Son
 ST. MEINRAD—St. Meinrad Brick & Tile Co.
 SCOTTSBURG—Wyman, D. W. & Son
 SEYMOUR—Kasting, W. L.
 SHELBYVILLE—Schoelch, Matthew
 SHIRLEY—Houck, A. S.
 SOUTH BEND—South Bend Brick Co.
 SPENCER—Wood, William Co.
 STEAM CORNER—Booe, Jas. M. & Son
 Furr, J. A.
 TELL CITY—Dickman, A.
 TERRE HAUTE—Bennett, J. & Sons, 1600 N 1st
 Bergman, Wilho, 1300 N 1st
 Terra Haute Brick & Pipe Co., Opera House
 blk
 Terra Haute Pressed Brick Co., 1500 N 1st
 Terra Haute Vitified Brick Co. (Building
 & Sewer)
 VALPARAISO—Covert & Clevinger (Tiles)
 Lembke, Chas., & Co.
 VEEDERSBURG—Wabash Clay Co.

VINCENNES—Kismiller, S., 63 Fairview av
Kismiller, S., 63 Fairview av
Prullage, Jno. B.
WALTON—Shaffer, Jno.
WASHINGTON—Brown, J. F. & Bro.
Kratz, Joseph
WINDFALL—Windfall Mfg. Co.
WOODBURN—Gehrig, J. W.

INDIAN TERRITORY.

ARDMORE—Cathey, Leey
CHICKASHA—Chickasha Shale Brick Co.
COAL GATE—Coal Gate Brick Mfg. Co.
MCALISTER—McAlester Brick Co.
MADILL—Madill Pressed Brick & Tile Co.
MUSKOGEE—Muskogee Vitrified Brick Co.
PURCELL—Pressed Brick Co. (The)
SAPULPA—Sapulpa Pressed Brick Co.
SOUTH MCALISTER—Choctaw Pressed Brick Co.

IOWA.

ADEL—Fenn, E. O.
Harris, S. J. & Co.
AFTON—Spencer, D. J.
ALGONA—Ostrum, A. P.
ANAMOSA—Smith, B. F.
ARMSTRONG—Armstrong Brick & Tile Mfg. Co.
AUDUBON—Tramp & Tramp (Brick & Tile)
BARNES—Wilson, Oille & Co.
BLOCKTON—Watson, Miles E.
BLOOMFIELD—Clark, A. J. & Son
BOONE—Boone Brick Tile & Paving Co.
McHose Bros. (Brick & Tile)
BRIDGEWATER—Cass, C. H.
Lednum & Secor
BURLINGTON—Granite Brick Co.
Woodcock, Clarence
CAMBRIDGE—Cambridge Brick & Tile Works
CEDAR RAPIDS—Stokey, D. W.
CENTERVILLE—Centreville Brick & Tile Co.
CLARINDA—Crabill, J. M.
COLUMBUS JUNCTION—Oakes, Geo. W.
COUNCIL BLUFFS—Anderson, K. F.
Besley Brick Co.
Norgaard, C. C.
Wickham Bros.
CRESCO—Marshall, C. A.
CRESTON—Tramp Bros.
DAVENPORT—Davenport Paving Brick & Tile Co.
DENISON—Green, Cornelius
DES MOINES—Capital City Brick & Pipe Co.,
Dale Brick Co., 5th cor Vine
Des Moines Brick & Tile Co., 4th & Hayes
Des Moines Clay Mfg. Co.
Flint Brick & Coal Co., Equitable bldg
Frost Pressed Brick Co., Good blk
Goodwin Tile & Brick Co., Mitchell av nr
18th, S D M
Iowa Brick Mfg. Co., Observatory bldg
Iowa Pipe & Tile Co., 4th & Hayes
Likes Improvement Co.
Shackelford Brick Co., nr Bloomfield Mine
William Bros., N 6th av & Royer, H P
DE SOTO—McKissick & Kiles
DIAGONAL—Grant & Jennings (Brick & Tile)
DOWS—Wilson Bros. (Brick & Tile)
DUBUQUE—Heim, Mrs. Martha
DYSART—Dysart Brick & Tile Co.
EAGLE GROVE—Floyd, John & Son.
ELDORA—Eldora Pipe & Tile Co.
ESTHERVILLE—Estherville Brick & Tile Co.
FAIRFIELD—Raney Bros.
FONDA—Straight Bros.
FORT DODGE—Bradshaw & Co.
Fort Dodge Brick & Tile Co.
Fort Dodge Clay Works
FREMONT—Dawson, J. & Co.
GARRISON—Dautremont & Gross
GLADBROOK—Gladbrook Pressed Brick & Tile Co.
GOLDFIELD—Conser, J. A.
GRAND JUNCTION—Goodwin Tile & Brick Co.
GRINNELL—McHose Bros.
GRUNDY CENTER—Frerichs & Ady
HAMBURG—Johnson, Fred.
HEDRICK—Heidenreich, F. W.
IOWA CITY—Oakes Bros.
KALO—Schnurr Bros.
KELLERTON—Kellerton Brick & Tile Co.
KELLOGG—Kellogg Brick & Tile Co.
KEOKUK—Spaan, Herman
Western Brick Co.
KEOTA—Leacock, Sam'l K.
KNOXVILLE—King Bros.
LEHIGH—Corey Pressed Brick Co.
Lehigh Brick & Tile Co.
LIVINGSTON—Parker & Son
LYNNVILLE—Newby & Macy
LYONS—Tallett, Jas.
MACEDONIA—Dye, W. & Co.
MALVERN—Stone, Fred.

MARENGO—Danskin & Wagner
MARSHALLTOWN—Anson Co.
MARTINSBURG—Harvey, U. R. & Son
MASON CITY—American Brick & Tile Co.
Mason City Brick & Tile Co.
Mason City Clay Works
MAXWELL—McHose, Chas. E.
MEDIAPOLIS—Johnson, A. H.
MUSCATINE—Muscatine Pressed Brick Co.
NEVADA—McHose, S. M.
NEWTON—Henning, Wm.
McAllister, David.
NORTH ENGLISH—Smith, E. J. & Sons
OAKLAND—Klnzey, D. B.
OELWEIN—Oelwein Pressed Brick Co.
OSKALOOSA—Oskaloosa Paving Brick Co.
OTTUMWA—Ostdiek, H. B.
Ottumwa Brick & Construction Co.
PANORA—Leach & Kinnick
POLK—Huy & Harman
PRESTON—Bemis, A. J.
REDFIELD—Goodwin, Robt., Jr.
RED OAK—Cook, R. E.
ROCK VALLEY—Kuehne, A. H.
SERGEANT BLUFFS—Holman, C. J. & Bro.
SHEFFIELD—Fox, E. P.
SHELLSBURG—Shannon, E.
SIDNEY—Carter, Samuel O.
SIOUX CITY—Iowa Cement Brick Co.
Lower Brick Co.
Sioux City Brick & Tile Works
Sioux Paving Brick Co.
SIOUX RAPIDS—Bauchman, D. M.
STORM LAKE—Russell, J. M.
STUART—Piner, John
TABOR—Weatherhead, J.
TIPTON—Kettell, Geo. H.
TOLEDO—Toledo Brick & Tile Co.
VAN METER—Platt Pressed & Fire Brick Co.
VILLISCA—Villisca Brick & Tile Co.
VINTON—Ackley, V. W.
WASHINGTON—Shields, John & Son
WATERLOO—Waterloo & Cedar Falls Brick Co.
Waterloo & Cedar Falls Brick Co.
Waterloo Granite Brick Co.
WAVERLY—Waverly Brick & Tile Co.
WAYLAND—Morris Brick, Tile & Lumber Co.
WEBSTER CITY—Webster City Brick & Tile Co.
WELLMAN—Adams, Ira O.
WEST LIBERTY—Fuller, J. W.
WHEATLAND—Beenk, Frederick
WILLIAMSBURG—Williamsburg Brick & Tile Co.
WINFIELD—Pierce, L. B.
WOODBINE—Canfield & Cromie
Van Scoy, J. S.

KANSAS.

ATCHISON—Atchison Paving Brick Co.
BURLINGTON—Batdorf & Co. (Tile & Brick)
CANEY—Caey Brick Co.
CHASNUTE—Chanute Cement & Clay Product Co.
CHERRYVALE—Cherryvale Pressed Brick Co.
CLAY CENTER—Clay Center Brick Co.
COFFEYVILLE—Coffeyville Vitrified Brick & Tile Co.
COLBY—Colby Brick Co.
COLUMBUS—Columbus Vitrified Brick & Tile Co.
Metzler, P. C.
EUREKA—Murphy, James
FORT SCOTT—Ft. Scott Brick Co.
FREDONIA—Fredonia Brick Co.
HOLTON—Wylie, W. H.
HUMBOLDT—Humholdt Brick Mfg. Co.
INDEPENDENCE—Coffeyville Vitrified Brick & Tile Co.
IOLA—Home Brick Co.
Iola Brick Co.
Star Brick Co.
Union Brick Co.
KANSAS CITY—Conegan, Edw.
Kansas City Hydraulic Press Brick Co.
LA HARPE—Randall, W. R.
LAWRENCE—Lawrence Vitrified Brick & Tile Co.
LEAVENWORTH—Pittsburg Vitrified Paving & Building Brick Co.
LINDSBORG—Swanson, A. J.
NEODESHA—Verdigris Valley Vitrified Brick & Tile Co.
OTTAWA—Ottawa Brick & Tile Co.
PAOLA—Paola Brick & Tile Co.
PERU—Peru Brick Co.
PHILLIPSBURG—Phillipshurg Brick & Tile Co.
PITTSBURG—Pittsburg Vitrified Paving & Building Brick Co.
SALINA—Salina Vitrified Brick Co.
SYCAMORE—Pittsburg Vitrified Paving & Building Brick Co.
TOPEKA—Capital City Vitrified Brick & Paving Co., 118 W 8th av
Ernest Brick Co.
VANCE—Gump, E. J. Pressed Brick Co.
WICHITA—Slieck Brick Co.

KENTUCKY.

ASHLAND—Ashland Fire Brick Co.
Gates Brick Co.
O'Kelly Brick Co.
BARBOURSVILLE—Barhoursville Brick & Tile Co.
BARDWELL—Bardwell Brick & Tile Co.
BOWLING GREEN—Phillips, Aaron
CALHOUN—Richmond, Wm.
CARROLLTON—Carrollton Brick Yard
CLINTON—Harpole, A. J.
COVINGTON—Busse Brick Co., 17th & Madison
Co-operative (The) Mfg. & Home Co. av
Meier, A. & Co., ft of Wallace
Schweinefuss, Henry, E 15th nr Licking
DANVILLE—Dillehay Brick Co. River
FULTON—Bransford & Bransford
HARTFORD—Bean Bros.
HENDERSON—Farnsworth Brick Co.
Kleymeyer & Klute
HOPKINSVILLE—Dalton Bros.
LEBANON—Goodin, R. L.
LEXINGTON—Fayette Brick & Supply Co.
Lexington Brick Co.
LIVERMORE—Quigg Mfg. Co.
LOUISVILLE—Akers, F. J., Tarascon nr 18th
Bannon Brick & Sewer Pipe Co.
Hillenbrand Brick Mfg. Co., 1815 Rammers
Hydraulic Brick Co., 2301 12th av
Louisville Brick Co., 508 W Jeff
McCullum, J. P., Knapp, near Preston
Poehlein, Jno., 35th, nr B'way
Southern Brick & Tile Co., 618 Park av
MADISONVILLE—Hall, W. L.
MAYFIELD—Mayfield Brick Co.
MAYSVILLE—Maysville Brick Co.
MIDDLESBORO—Middlesboro Pressed Brick
NEW HAVEN—Nelson Brick & Tile Co. Co.
NEWPORT—Derrick, Frank & Co.
Newport Pressed Brick Co.
OWENSBORO—Owensboro Brick & Sewer
Seven Hills Brick Co. Pipe Co.
PADUCAH—Chamblin & Murray
Katterjohn, F. W. & Sons
PIKEVILLE—Pikeville Brick Co.
PRINCETON—Princeton Brick Co.
Princeton Brick Co.
PROVIDENCE—Hicks, S.
RICHMOND—Rice, Samuel
WINCHESTER—Winchester Brick Works

LOUISIANA.

ABBEVILLE—Caldwell, V. L.
ALEXANDRIA—Adams, C. N.
BASTROP—Bastrop Brick Co.
BATON ROUGE—Baton Rouge Brickyard Co.
BREAUX BRIDGE—Breaux Bridge & Milling
Broussard, G. A. Co.
CLINTON—Empson, W. M.
CROWLEY—Toler Bros. & Co.
DELHI—Delhi Brick Co.
DONALDSONVILLE—Cire & Esmeault
Wild & Bradford
FRANKLIN—Bodin, Eugene
Parkerson & Milholland
HAMMOND—Cate, C. E.
INDEPENDENCE—Campbell, S. J.
JEANERETTE—Jeanerette Brick & Supply Co.
JENNINGS—Jennings Brick Co.
KENTWOOD—Kent, Amos Lumber & Brick Co.
LABADIEVILLE—Achee, Elphez
LAFAYETTE—Lafayette Brick & Tile Co.
MARKSVILLE—Marksville Brick Co.
Neck Bros. Co.
MINDEN—Minden Brick Co.
MONROE—Herring A. J.
Monroe Brick Co.
MORGAN CITY—Wyandotte Brick Co.
NEW IBERIA—Emmer, Jno.
Comhel Brick & Sewer Pipe Wks, 609 Canal
NEW ORLEANS—Mutual Brick & Supply Co.,
Hennen hldg
Pelican Pressed Brick Co., 334 Carondelet
Ruppel, Adam, 5340 Tchoupitoulas
Salmen Brick & Lumber Co., 1401 Julia
Slidell Brick Works, 311 Carondelet
NEW ROADS—New Roads Brick Co.
PEARL RIVER—Schneider, P. W.
PLAQUEMINE—Atemus, Mrs. Blanche
PONCHATOULA—Campbell, F. J.
RAYNE—Rayne Brick Co.
RUSTON—Mount & Williams
Ruston Brick Works
SHREVEPORT—Bossier City Brick Co.
McCormick, Oliff, Co.
Shreveport Brick Co.
SLIDELL—Salmon Brick & Lumber Co. .
Slidell Brick Works
TANGIPAHOA—Newson's M. S. Sons
Oakhill Brick Co.
THIBODAUX—Southern Investment Co.
WHITE CASTLE—White Castle Brick Mfg. Co.

MAINE.

AUBURN—Dunn, Chas., 323 Wash'n
BANGOR—Bangor Brick Co.
 Hellicr, W. S. & Co.
BELFAST—Strout, Parish L.
BREWER—Burke, Wm.
 O'Brien, Hugh
BRUNSWICK—Hacker, C. E.
EDGEComb—Page, Cushman S.
 Page, Daniel S.
ELIOT—Abbott, Horace P.
 Morrill, Chas. W.
 Raitt, Chas. A.
 Raitt, John
 Rowe, A. D.
 Rowe, Alvin L.
LEWISTON—Brooks, A. H.
 Libby, Horace, 544 Main
 Pettingill, Geo. S., 535 Main
LISBON FALLS—Goddard, T. T.
LIVERMORE FALLS—Gastonquay, Frank
MECHANICS FALLS—Mechanics Falls Brick Co.
NEW CASTLE—Bryant, Nathaniel
ORLAND—Gross, Fred. B.
 Hutchins, A. W. & A. B.
PENOBSCOT—Leach, Otis
PITTSFIELD—Morrell, H. A.
PORTLAND—Densmore, Samuel B.
 Hamblet, Melvin
 Lucas, Wm.
SACO—Marston & Durgin
SKOWHEGAN—Purinton, Horace & Co.
TOPSHAM—Flagg, D. H.
WATERVILLE—Procter & Bowie Co.
 Purinton, H. & Co.
WOODFORDS—Lucas, William

MARYLAND.

BALTIMORE—Baltimore Brick Co., 7 Maryland Trust bldg
 Baltimore Vitriified Clay Co., Builders' Ex
 Burns-Russell Co., 1104 American bldg
 Champion Brick Co., 206 Courtland
 Dashields, Wm. W., Beason & Jones
 Hydraulic Pressed Brick Co., Builders' Ex
 Potee Brick Co., Calvert bldg
 Voyce, Chas., ft E Fort av
BUCKEYESTOWN—Thomas, C. H. & Son Brick Co.
CAMBRIDGE—Leonard, J. C.
CRISFIELD—Collins, George M.
CUMBERLAND—Queen City Brick & Tile Co.
EMMITSBURG—Stouter, J. M. (Bricks & Drain Tile)
FREDERICK—Frederick Brick Works
FROSTBURG—Savage Mountain Firebrick Co.
GREENSBORO—Bellbrough, T. L.
HAGERSTOWN—Henson Bros.
 Pryor, James E. S.
NORTH EAST—Greenhill Fire Brick Co.
 United Firebrick Co. (Fire Clay Products)
POCOMOKE CITY—McMichael, Hugh
PRINCESS ANNE—Collins, Daniel
RIDGELY—Staker, D. S. & Sons
ROBERTS—Smith, R. J.
ST. MICHAELS—Hope, Clifton.
SALISBURY—Peninsular Brick Co.
 Salisbury Brick Co.
 Wicomico Brick Co.
SNOW HILL—Lewis, W. S. & Son
WILLIAMSPORT—Conochobegue Brick & Earthenware Co.

MASSACHUSETTS.

BELMONT—New England Brick Co.
BOSTON—Boston Brick Co., 166 Devonshire
 Carter, Thomas W., 30 Kilby
 Cook, E. L., 166 Devonshire
 Day, E. F. & Co., 166 Devonshire
 Edmester, E. B., 166 Devonshire
 Emerson, Horatio B., 257 Washn
 Evatt Frank G., 101 Tremont
FISKE & COMPANY (Inc.), 161
 Devonshire. (See adv. index, end of hook)
 New England Brick Co., 189 Devonshire
 Parry Brick Co., 166 Devonshire
SAYRE & FISHER CO., 120 Tre-
 mont. (See adv. index, end of hook.)
 Spiers, Fish & Co., Equitable bldg
 Thomas Bros., 9 Cornhill. Works, Turner's
 Falls Mass.
 Washburn, D. & Sons, 166 Devonshire.
 Works, Everett, Mrs.
BRIDGEWATER—Bridgewater Brick Co.
 Cook, Ernest L., opp Conant, near R R
CAMBRIDGE—New England Brick Co.
CLAYTON—Berkshire White Brick Co.
DANVERS—Carr, Mrs. Edw.
 Day, Edw. F.
 Evans, M. F., Mrs.
 Trask, A. W.
DEDHAM—Fisher-Churchill Co.

EAST BRIDGEWATER—Bernier, Zepherin (es-
 Trudeau, Wm., Westdale tate)
EAST BROOKFIELD—New England Brick Co.
EASTHAMPTON—Coyle, B. F. & Son
EVERETT—Washburn's, David Sons
FALL RIVER—Petty, Willard M., 8 Bedford
FITCHBURG—Goodrich, Edwin A., 99 Summer
GARDNER—Dyer, Geo. N.
GREENFIELD—Dyer, C. C.
 N. E. Brick Co.
HANSON—House, Wallace
HAVERHILL—Savignac, Charles, Rosemont nr
 Main
 Whitmore, Samuel M., Frimrose, n Dustin sq
HOLYOKE—Holyoke Brick Co., 95 High
 Lynch Bros. Brick Co., 206 High
 Prew, Jno. J.
IPSWICH—Brown, C. E. & Son
 Brown, J. A.
LANCASTER—New England Brick Co.
LENEX—Mahanna, William
LEOMINSTER—Osborne, William L.
LYNN—Blakely, Geo. C., 31 Holyoke
 Graham, Richard, off Holyoke
MANCHESTER—Martin, Israel
MEDFORD—Maxwell, J. S. & Co.
MIDDLEBORO—New England Brick Co.
MONTAGUE CITY—Burnham, A. C. & F. G.
 Mass. Brick Co.
NEWBURYPORT—N. E. Clay Mfg. Co.
NORTH ADAMS—North Adams Brick Co.
NORTHAMPTON—Bailey, W. A.
 Matthews, Avon C.
 Matthews, Henry.

OTTER RIVER—Leathe, Chas. H.
PALMER—Marcy & Gardner
REVERE—Foster, George A.
SPRINGFIELD—Brightwood Brick Co., 97 State
 Curtis, D. J., 77 Everett
 Hampden Brick Works, 283 Carew
 Phillips Bros., 61 Northampton av
 Springfield Brick Co., 310 Main
 Standard Brick Co., 310 Main
TAUNTON—Williams Brick Co., Williams ct
TURNERS FALLS—Thomas Bros.
WEST BARNSTABLE—West Barnstable Brick Co.
WESTFIELD—Westfield Brick Co.
WILLMANSET—Phillips Bros., Gratton
WORCESTER—Blandford Brick & Tile Co., 10
 E Worcester
 Boucber, Jos., 180 Plantation
 Granite State Brick Co., 10 E Worcester
 Paquette, Edmund, 178 Plantation

MICHIGAN.

ADRIAN—Swords, Edwin C.
ASHLEY—Fuller, A. E. (Brick & Tile)
ATLAS—Gale, P. W.
AVOCA—Large & Rochester
AZALIA—Meyers Bros.
BANGOR—Stewart, James
BATTLE CREEK—Adams, Jasper (Brick & Tile)
BELDING—Prall, M. J.
BENTON HARBOR—McCord & Miller Co.
 (Brick & Tile)
BIG RAPIDS—Vander Heyden, W. H.
BIRMINGHAM—Birmingham Brick & Tile Co.
BRIDGEPORT—Westfall, John
BRITTON—Kniffen, J. L. & Co.
BROWN CITY—Large, Jno.
BUCHANAN—Blodgett & Blodgett
CADILLAC—Wilcox Bros.
CAMDEN—Smith, John
CASS CITY—Cass City Brick & Tile Co.
 Hall, Charles
 Sberidan, Michael
CLIO—Oliff, Thos.
COLDWATER—Pollock, Chas. A. (Brick & Tile)
COPEMISH—Copemish Brick Co.
CROSWELL—Croswell Brick Co.
DAVISON—Uptegraff Bros.
DEARBORN—Wagner, A. & Son
DEKERVILLE—Wyers, R. & Son
DEERFIELD—Atkin, Wm. T., Jr.
DETROIT—Alport, H. W., Tolsma hldg
 American Tile Co., 260 Randolph
 Ash Firebrick Co., Watherbee bldg
 Burke, Dennis, 40 Fort, W.
 Burns & O'Shea Brick Co., M. C. R. R.
 Junction Yards
 Calder Brick & Coal Co., Tolsma hldg
 Campau, Alex. M., Lonyo av & M. C. R. R.
 Clippert, Geo. H. & Bro., 1920 Michigan av
 Daniel, Jacob & Bro. Brick Co., Peninsular
 Bank hldg
 Detroit Sand Lime Brick Co., Hammond
 bldg
 Downey, Michael, 1977 Michigan av
 Dvsarz, Hass & Sztuba, Michigan av nr
 Genet Co., 235 Military av Griffith av
 Haggerty, J. S., Peninsular hldg
 Holmes, F. B. & Co., Hammond hldg

Larkins Brick Co., Cleland bldg
 Longo Brick Co., Cleland bldg
 Lonyo Bros., Michigan av & Lonyo rd
 McDonald, J. C. & Son, Hammond hldg
 Michigan Ornamental Brick Co., Majestic
 hldg
 Michigan Pressed Brick Co., Lawton av &
 M C R R
 Porath Bros., Michigan av & P M R R
 Pratt, Steppen, Beecher av & M C R R
 Proctor Bros., Peninsular Bank bldg
 Proctor, Wm. H., Michigan av nr Griffith
 Schneider Brick Co., 605 Dix av
 Springwells Brick Co., Hammond hldg
 Standard Shale Brick Co., Abbott cor 1st
 Wolf, F. H. Brick Co., 23 McGraw bldg
 Wolf & Dei Brick Co., M C R R & Central av
DUFFIELD—Duffield Brick & Tile Co.
 Middlesworth, J. J.
ELKTON—Haist, Fred'k
FLINT—Flint Sandstone Brick Co.
 Zimmerman, John C.
GAYLORD—Gaylord Brick Co.
GRAND BLANC—Brick & Drain Tile Co.
GRAND RAPIDS—Eureka Brick Co., S Market
 nr Ratbbun pl
 Grand Rapids Brick Co., 19 Lyon
 Grand Rapids Brick Association, Innis av
 & N Fuller
 Grand Rapids Consol. Brick & Tiling Co., c
 Innes av & N Fuller
 Michigan Brick Co., 470 S Division
HARBOR BEACH—Binkle, Philip
HARTFORD—Hartford Brick & Tile Co.
HOLLAND—Holland Brick Co.
HOLTON—Holton Brick Co.
IONIA—Vander Heyden, Fred H.
ITHACA—Gibbs, D. C.
JACKSON—Adler Brick Co.
JASPER—Cone Bros.
JEROME—Jerome Brick & Tile Co.
LANSING—Clippert, Spanlding & Co., n s
 Mich av, 2 m e Capitol
LAPEER—White, Robert A.
MANISTEE—Manistee Brick Co.
MANISTIQUE—White Marble Lime Co.
MARINE CITY—Decker, Rudolph
MARQUETTE—Shaw, G. W.
MASON—Barker, W. C.
MAYBEE—Linerfelser, F. C.
MENOMONEE—Menomonee Brick Co.
MIDLAND—Midland Brick & Tile Co.
MILFORD—Oliff, Thos.
MINDEN CITY—Webber, Chas. H.
MONTROSE—Smith & Son
MOUNT CLEMENS—Hacker, Frank G.
 Kath, Charles
 Mt. Clemens Brick & Tile Co.
MUSKEGON—Holton Brick Co.
NEW BALTIMORE—Streit, Andrew
NEW HAVEN—New Haven Lumber & Coal Co.
 (Brick & Tile)

NORTH AURELIUS—Bullen Bros.
OWOSSO—Friesseke, J. & H.
 Parker, Miles L.
PETOSKEY—De Arment, A. J. & Son
PONTIAC—Osmun, Wm. H., Jr.
REDFORD—Burgess, H. P.
SAGINAW—Saginaw Paving Brick Co.
 Saginaw Pressed Brick Co.
 Saginaw Sandstone Brick Co.
ST. CLAIR—Belknap & Phillips
 Sheldon, Chas.
ST. JOHNS—Pulfrey & Pouch
ST. LOUIS—Smith, W. H. H. & Sons
SARANAC—Brown, Albert
SEBEWAING—Reinhold, Ernst
SPARTA—Sparta Brick & Tiling Co.
TRAVERSE CITY—Markham, J. W.
VASSAR—Miller, Frank
VICKSBURG—Clapp Bros.
VULCAN—Vulcan Brick Works
WEST END—Dysarz & Stuve
WILLIAMS—Shields, Patrick
ZEELAND—Zeeland Brick Co.

MINNESOTA.

ADA—Mattbews, W. H. & E. L.
AITKIN—Peltier & Reymore
AKELY—Moore Bros. & Co.
ALBERT LEE—Albert Lee Brick & Tile Co.
ARLINGTON—Wilde, Jos.
AUSTIN—Barr, E.
BENSON—Benson Brick Co.
BLAKELEY—Blakeley Brick & Terra Cotta Co.
 Kelly, D. A.
BRAINERD—Ebinger, David
BRICKTON—Cream Brick Co.
 Farnham Brick Co.
 Kuhn Bros.
 Princeton Brick Co.
 Woodcock & Oates.

BROWERVILLE—St. Anthony, N.

BYRON—Kendall, J. B.

CARVER—Ablin Bros.

CHASKA—Burkhart Bros.

Greiner & Corning.

Klein, C. H. Brick Co.

Riedele & Casper

Strobach, Faber & Co.

COKATO—Cokato Brick, Stone & Sidewalk Co.

CROOKSTON—Crookston Brick & Tile Co.

DAYTON—Vasser, Joseph

DREBACH—Sherwood & Johnson

FARIBAULT—Kaul, E.

FERTILE—Fertile Brick & Tile Co.

FRIDLEY—Swanson, C. J.

HENDERSON—Schwartz, Reinert

HERON LAKE—Ochs, A. C.

HUTCHINSON—Matson, M. C.

JACKSON—Jackson Brickyard Co.

LITTLE FALLS—Duclos, O.

Sprandel, C. A.

MANKATO—Fowler & Pay

North Mankato Brick Co.

Wheeler & Bennett

MINNEAPOLIS—Anderson, M. Brick Co., Security Bank bldg

Bower, John S., 34th av, N & Marshall

Hewson, S. J. & Co., 10 N 3d (Mfrs. Agts.)

Johnson, Frank A., 5008 N Lyndale av

Kenmare Hard Coal, Brick & Tile Co., Boston blk

Martin Brick Co., 504 Hennepin av

Menomonee Hydraulic Press Brick Co. (Also Pressed Front), 10 N 3d

Minneapolis Paving & Cement Brick Mfg. Co., N. Y. Life bldg

Vogt & Benson, Kasota blk

Wlethoff, Wm., Lyndale & 51st avs

Wisconsin Red Pressed Brick Co., 214 Lum-

MORTON—Morton Brick & Tile Co., ber Ex

NEW ULM—Aufderhede, Fred.

PAYNESVILLE—Ames, Henry & Son

PERHAM—Haut, Gustave

RED LAKE FALLS—Schmitz, Mary K.

RED WING—Red Wing Brick Co.

ST. AUGUSTA—St. Augusta Brick Co.

ST. CLOUD—Hess, Henry

ST. PAUL—Greiner & Coning, Germania Life bldg

LAWES, G. H. & CO. (Mfrs. Agents), Gilfillan bldg. (See adv. index, end of book)

Minnesota Ceramic Co., Kendrick blk

St. Paul Brick Co., Drake & Butternut av

Simard, Dunois, Chippewa av & Haskell

Twin City Brick Co., Manhattan bldg

SAUK CENTER—Pangburn, David

SHAKOPEE—Schroeder, Herman

SLEEPY EYE—McBain, Hugh

SPRINGFIELD—Ochs, A. C.

STAPLES—Goulet, F. X.

STILLWATER—Steinacker, Albert

THIEF RIVER FALLS—Thief River Falls Cement & Brick Works

THOMSON—St. Louis River Slate Brick Co.

WARREN—Lundgren August

WINDOM—Windom Brick & Tile Co.

WINNEBAGO CITY—Winnebago City Brick & Tile Co.

WINONA—Biesanz, Phillip

Voelker & Graff

WRENSHALL—Enterprise Brick Co.

Habbaggar, Fred.

Kelley Brick & Tile Co.

Rushfeldt, M. F.

Wrenshall Brick Co.

MISSISSIPPI.

BALDWIN—Baldwin Brick & Tile Co.

BOONEVILLE—Booneville Brick & Tile Co.

CANTON—Smith, Carroll

CLARKSDALE—Clark, Walter

Reinhart, A.

COLUMBUS—Columbus Brick Co.

GREENWOOD—Bacon, W. O.

GRENADA—Bledsoe, O. F. (Bricks & Tile)

Grenada Brick Co.

HATTIESBURG—Crymes, T. P.

Riverside Brick & Mfg. Co.

HOLLY SPRINGS—Holly Springs Stoneware & Fire Brick Mfrs.

INDIANOLA—Snodflower Brick Co.

JACKSON—Bullard Brick Co.

Taylor, W. B.

KOSCIUSKO—Storer & Jones

LAUREL—Lanrel Brick & Tile Co.

MERIDIAN—Hoover, Benj.

MOUNT OLIVE—Mt. Olive Brick Co.

NATCHEZ—Concord Brick Co.

Natchez Brick Mfg. Co.

OKOLONA—Hawkins & Hodges.

OSYKA—Neff & Owen

OXFORD—Oxford Brick & Tile Co.

PORT GIBSON—Port Gibson Brick & Mfg. Co.

VICKSBURG—Beck, Jno. W.

Gregory, Thompson S.

WEST POINT—West Point Brick & Mfg. Co.

WINONA—Winona Brick & Tile Co.

YAZOO CITY—Montgomery Land Co.

MISSOURI.

ALMA—Neimann, G.

BLOOMFIELD—Hlnze, Albert

BOONVILLE—Boonville Vitrified Brick & Tile Co.

BOWLING GREEN—Sisson, H. W.

BRAYMER—McCubbin, Wm.

BROWNING—Peters, C. W. & G. F.

BRUNSWICK—Brunswick Brick & Tile Co.

CAMPBELL—Moore & Ralph

CAPE GIRARDEAU—Daues, A. W. & Bro.

Klages, Christ

CARROLLTON—Harding, L. A.

CARTHAGE—Wheeler, I. C.

CARUTHERSVILLE—Caruthersville Brick Co.

CHILLICOTHE—Chillicothe Brick & Tile Co.

CONCORDIA—Bosselman, Hy.

CREIGHTON—Creighton Clay Co.

DE SOTO—Herman, Otto

FESTUS—Miller, Chas. E.

FREDRICKTOWN—Fredricktown Brick Co.

FULTON—Fulton Fire Brick Co.

GLASGOW—Burdle & Bro.

GREEN CITY—Kerr, Sorrell & Co. (Cement Bricks)

HANNIBAL—Hannibal Press Brick Co.

HERMANN—Vallet, Fritz

HIGGINSVILLE—Canterbury, Frank

HUMANSVILLE—Humansville Shale Brick Co.

INDEPENDENCE—Independence Shale Brick Co.

Randall, W. M.

JACKSON—Kasten, Randolph C.

JEFFERSON CITY—Fay Brick Co.

Jefferson City Brick Co.

Pohl, B. H.

JOPLIN—Joplin Buff Brick Co.

Joplin Vitrified Brick Co.

KAHOKA—Easton, T. J. & Sons

KANSAS CITY—Dickey, W. S. Clay Mfg. Co., N. Y. Life bldg

Flanagan Bros. Co., Lydia, cor 2nd

Gump, E. J., Pressed Brick Co., 821 Main

Kansas City Hydraulic Press Brick Co., 206

Gumbel bldg

Kansas City Paving Brick & Tile Co., K

& P bldg

Pittsburg Vitrified Paving & Bldg

Brick Co., Postal Tel. bldg

Schrage, Hy., 600 E 2nd

Stnkenberg Pressed Brick Co., 31st & Wy-

oming

KIRKSVILLE—Iyle, J. M.

KNOBNOTOR—Boyd, G. M. & Co.

LAKEVIEW—Ray County Coal, Brick & Tile Co.

LEXINGTON—Lexington Triumph Press Brick

MEMPHIS—Myers, Geo. T. & Co. Co

MILAN—Grear, H. & Sons

MOBERLY—Moberly Brick Tiling & Earthen-

ware Co.

NEVADA—Daly, J. A.

Mims, Jno.

PERRYVILLE—Popp, John C.

ROCKPORT—West, Jos.

ST. CHARLES—St. Charles Brick Co.

ST. JOSEPH—Benkendorf Brick Co., 408 Felix

Friede & Bode, 17th & Grand av

Phoenix Brick & Construction Co., King

Hill av

St. Joseph Pressed Brick Co., 19th &

Garfield av

ST. LOUIS—American Hydraulic Press Brick

Co., 705 Olive

American Press Brick Co., 6500 Easton av

Banner Clay Works (Building & Sewer), 1224

S B'way

Brockschmitt Bros., 6533 Manchester av

Gravols

Chicago Hydraulic Pressed Brick Co., 705

Olive

Christy Fire Clay Co., Morgan Ford rd &

Gravols av

Cleveland Hydranlic Pressed Brick Co.,

705 Olive

College Hill Press Brick Works, 1400 Col-

lege av

Consumers' Brick & Quarry Co., 7208 Pa av

Continental Brick Co., 202 N 9th

Eastern Hydraulic Press Brick Co., 705

Olive

Evans & Howard Firebrick Co., 920 Market

General Peranlnte Co., 3850 Chouteau av

Gillick Bros., 7925 Minn av

Hydraulic Press Brick Co., 705 Olive

Ittner, Anthony Brick Co., Odd Fellows

bldg

Laclede Fire Brick Mfg. Co., Manchester

& Sulphur avs

McEwing & Thomas, 202 N 9th

McNell Press Brick Co., Chemical bldg

Menomonie Hydraulic Press Brick Co., 705

Missouri Fire Brick Co., 411 Olive Olive

Mitchell Clay Mfg. Co., 5625 Manchester av

National Sand-Cement Co., 119 N 7th

Ohio Pressed Brick Co., 705 Olive

Progress Press Brick & Machine Co., 3207

King's Highway

St. Louis Cement Brick Mfg. Co., 313 N 9th

Chestnut

St. Louis Clay Burning Co., 308 N 6th

St. Louis Press Brick Co., Cass av & Col-

lins

St. Louis Vitrified & Fire Brick Co., Wain-

wright bldg

Sanders Press Brick Co., Macklind & Bisch-

off av

Schweer, H. H. Brick Co., 4300 S Bway

Superior Press Brick Co., 3190 S King's

Highway

Thomas Brick & Clay Co., 202 N 9th

Union Press Brick Works, 705 Olive

Washington Hydraulic Press Brick Co., 705

Olive

Winkle Terra Cotta Co., 313 N 9th

SARCOXIE—Gangler, W. R.

WASHINGTON—Hollman, Henry C.

WINFIELD—Magruder, B. E.

MONTANA.

ANACONDA—Anaconda Copper Mining Co.

BOZEMAN—Brown, J. N.

HAVRE—Gussenhaven, Jos.

HELENA—Kessler Brick & Sewer Pipe Co.

MISSOULA—Missoula Brick & Cement Co.

NEBRASKA.

ALBION—Parker, J. H.

ALLIANCE—Alliance Press Brick Co.

ARLINGTON—Brinkman, Fred.

AUBURN—Horrum, W. H.

AURORA—Wood Bros.

BEATRICE—Beatrice Brick Works

BEEMER—Buhk, Henry

DAVID CITY—Bnshell, W. H.

DODGE—Nurnedy & Brodhun

GRAND ISLAND—Schmidt, Louis

HASTINGS—Hastings Brick Co.

Polenske Bros. & Co.

Polenske, Shellak & Co.

Western Brick Co.

HOLDREDGE—Johnson, Morten

HOOPER—Bullders Brick Mfg. Co.

KEARNEY—Hibberd Brick Co.

LINCOLN—Klose, C. & Bro.

Yankee Hill Brick & Paving Co.

LOUP—Ohlsen Bros.

MADISON—Kaul, Carl F.

NEBRASKA CITY—Nebraska City Vitrified

Brick Co.

NELIGH—Brenton, T. H.

NELSON—Storer, M. C.

NORFOLK—Norfolk Brick Works

OMAHA—Corneer Bros. Co.

Omaha Brick Co.

Omaha Hydraulic Press Brick Co.

Withnell Bros. & Smith Co.

PONCA—Nelson, J. P. & D. J.

SCRIBNER—Scribner Brick Mfg. Co.

SEWARD—Wooley, F. R.

Worthman, William

SOUTH OMAHA—Kritenbrink, J. H.

STANTON—Strahle, Carl

STROMSBURG—Stromsburg Brick Co.

Stromsburg Pressed Brick & Tile Co.

SUTTON—Hunzeker, S.

TABLE ROCK—Table Rock, Clay Co.

WAHOO—Schmidt, Marcus

WATERLOO—Hollister, A.

WAYNE—Lewis, Jno., Jr.

Sherbahn, J. F.

YORK—York Brick & Tile Co.

NEVADA.

GARDNERVILLE—Brown Bros.

RENO—Reno Pressed Brick Co.

NEW HAMPSHIRE.

CONCORD—Holt, Samuel, Turnpike nr Allistor

DOVER—Chesley, Chas. P.

Gage, Elbridge

Lucas, Isaac

Morang & Henderson

Pinkham, J. E.

Roberts, F. H.

EPPING—New England Brick Co.
 Proul, Joseph
 Manchester Real Estate & Mfg. Co.
 EXETER—Dunn, H. F.
 Eno, Peter
 GONIC—Boston Brick Co.
 Lanoix, Alphonse
 New England Brick Co.
 Spiers-Fish Co.
 HOOKSETT—Head, W. F. & Son
 KEENE—Ball's, Geo. W. Son
 LANCASTER—Lancaster Brick Co.
 LEBANON—Densmore, Jason
 ROCHESTER—Elliott Bros.
 New England Brick Co.
 SUNCOOK—Sargent, Warren
 Simpson, Geo. N.
 THE WEIRS—Bradbury, Edw. E.
 WESTVILLE—Donocour, Geo.
 WOODSVILLE—Lamarre Bros.

NEW JERSEY.

ASBURY PARK—Drummond Bros.
 BELLE PLAIN—Greenlee, Richard
 BORDENTOWN—Bordentown Brick Co.
 Shreve, W. A.
 BRIDGETON—Clayville Mining & Brick Co.
 Erickson Benjamin
 BROWN MILLS—Pittman, Chas. H.
 CAMDEN—Camden Granite Brick Co.
 City Line Brick Works
 Hatch, Hugh
 Reeve, Augustus
 CLIFFWOOD—Cliffwood Brick Co.
 Gaston, A.
 Gehlhaus, Chas. Co.
 Klucke-Minzer Co.
 Lenox Brick Co.
 COLLINGSWOOD—Dobbs, Jas. O.
 CROSSWICKS—Bralslin Fire Proofing Co.
 EDGEWATER PARK—Adams, Henry C.
 EGG HARBOR CITY—Egg Harbor Brick Mfg. Co.
 FARMINGDALE—Lippencott, Edwin
 HACKENSACK—Gardner, J. E.
 Gillies, J. W.
 Schmults, Edward
 Walsh, Chas. E.
 HIGHTSTOWN—Reed, B. H. & Bro
 HOMESTEAD—Hall, Frank
 JERSEY CITY—Gautier, J. H. & Co., Essex & Green
 KINGSLAND—Kingsland Brick Co.
 KINKORA—Dobbins, Murrell
 LITTLE FERRY—Felter, I. & W.
 Mehrhoff Brick Co.
 Mehrhoff, N. & Co.
 MAPLE SHADE—Reeve, Augustus
 Sauselein, Theo.
 MATAWAN—Close, Wm. A. Trading & Mfg. Co.
 N. J. Brick & Tile Co.
 Raritan Brick Co.
MAURER—MAURER, HENRY & SON.
 (See adv. inside front cover)
 MAYS LANDING—Atlantic Brick Mfg. Co.
 MILLVILLE—Bircham, A. E.
 Millville Brick Mfg. Co.
 MORRISTOWN—Hanover Brick Co.
 MOUNT HOLLY—Dubell, Furman
 MOUNTAIN VIEW—Oschwald & Ulrich
 NEWARK—Blue Ridge Enameled Brick Co.
 763 Broad

Sayre, Jas. R., Jr., & Co. (wholesale dealers), River, N. Central St. Depot
 Standard Brick Co., 492 Broad
 NEW BRUNSWICK—Pettit & Co.
 NEWTON—Losee, F. E.
 PATERSON—New Jersey Brick Co.
 PERTH AMBOY—Federal Clay Mfg. Co.
 SAYREVILLE—Furman, Edward Co.
SAYRE & FISHER CO. (Hard Building). (See adv. front inside cover)
 SOUTH AMBOY—Furman, A. H.
 Otis Sand Lime Brick Co.
 SOUTH RIVER—Blissett, Jas.
 National Pyrogranite Co.
 Pettitt & Co.
 Pettitt & Cook Co.
 Sherrer & Candee
 TRENTON—Applegate & Co., Pennington av
 Donahue & Nolan, Kirkbride av
 Fell & Roberts, 501 Calhoun
 Heath, J. F., Princeton av
 Kafer, H. C. & Co., Princeton av
 Mercer Fire Brick Works, Calhoun st
 Trenton Fire Brick Co.
 TRENTON, R. F. B. Works, Princeton av
 VINELAND—Hobart, J. A.
 WINSLOW—Eastern Hydraulic Pressed Brick Co.
 WHIPPANY—Hanover Brick Co.
 New York & Phila. Brick Co.

WOODBIDGE—Berry, J. E. (Firebrick)
 Mutton Hollow Firebrick Co.
 Ostrander Fire Brick Co.
 Valentine, M. D. & Bro. Co.
 YORKTOWN—Haines, David F.

NEW MEXICO.

ALBUQUERQUE—McAtee, M. J.
 Lembke, Edward
 Ruby, Wm.
 Spooner & Ryan
 LAS VEGAS—Ireland, J. M.
 SILVER CITY—Manville Bros.

NEW YORK.

ALBANY—Hunter, Alfred & Son, 54 Van Woert
 Moore, J. C. & Babcock, Morton & So Hawk
 Poutre, Antoine, Head Lard
 Smith, Edw. J., First av
 ALFRED—Alfred Clay Co.
 ARLINGTON—Flagler & Allen
 Haight, Wm. H.
 ATIENS—Rider, Wm. W., Jr.
 ATTICA—Attica Brick & Tile Co.
 BEMUS HEIGHTS—Eusigu, Geo. A. (& Tile)
 BINGHAMTON—Wells & Brigham, 118 Wash'n
 BROCKWAY—Brockway Brick Co.
 Lahey, Wm.
 O'Brien & Vaughney
 BROOKLYN—(See New York City, Borough of Brooklyn)

BUFFALO—Bender, Henry, 40 Jones
 Berrick, Chas. Sons, 1151 Clinton
 Brush Bros., Bailey & Erie R. R.
 Buffalo Clay Mfg. Co., 41 Franklin
 Dietschler, Henry & Sons, Weiss cor Clinton
 Ellicott Brick Co., 918 Ellicott sq
 Laucaster Brick & Tile Co., Builders' Ex
 Lyth, Jno. & Sons, 48 W. Eagle
 Queen City Brick Co., Builders' Ex
 Schmidt, Geo. W., 699 Bailey av
 Schuesler, E. A., Weiss & Clinton
 CANANDAIGUA—Hollis, A. M. Co.
 New York Hydraulic Pressed Brick Co.
 CARTHAGE—Wrape & Peck
 CATSKILL—Golden, Percival
 Katlerskill Paving Brick Co.
 Washburn, G. W. & Co.
 COHOES—Dempsey & Gabrels
 Murray & Riberdy
 COEYMANS—Sutton & Siusapaugh
 Sutton & Suderly Brick Co.
 Ziegler & Ziegler
 CORNING—Brick Terra Cotta & Tile Co.
 CORNWALL ON THE HUDSON—Hedges Brick Co.
 CONSAKIE—Fitzgerald & Sons
 CRESCENT—Mausfield, W. K.
 Newton Brick Co.

CROTON ON HUDSON—Underhill, W. A. Brick Co.
 DUNKIRK—Hilton, Walter E.
 DUTCHESS JUNCTION—Aldridge Brick Co.
 Anchor Brick Co.
 Budd, W. D. Brick Co.
 Hammond & Freeman
 EAST KINGSTON—Brigham Bros.
 Goldrick, Phillip
 Hendricks, Clarence P.
 Terry Bros. Co.
 Wasburn, U. F. & J. T.
 EAST WILLISTON—Post, W. & J.
 ELMIRA—Elmira Shale Brick Co.
 Elmira Sewer Pipe & Firebrick Co.
 FARMINGDALE—Queen's Co. Brick Mfg. Co.
 FAR ROCKAWAY—(See New York City, Borough of Queens)

FISHKILL ON THE HUDSON—Brockway Bros. Co.
 Bourne, C. C.
 Denning Point Brick Co.
 GARDENVILLE—Bender, Henry
 GENEVA—DeLamater, Wm.
 Dove, W. G.
 GLASCO—Maginnis, Wm. Co.
 Washburn Bros. Co.
 GOSHEN—Decker, Dr. Wm. F.
 GRASSY POINT—Brophy, Patrick
 Morrissey & Co.
 GREEN BRIDGE—(See New York City, Borough of Richmond)

GREENPORT—Sage Brick Mfg. Co.
 HAVERSTRAW—Allison, B. J. & Co.
 Allison & Wood
 Bennett, Wm. (Est. of)
 De Noyelles & Co.
 Excelsior Brick Co.
 Fowler Bros.
 Fowler, D. Jr. & Co.
 Garner Brick Works
 Goldrick, Phillip
 Haverstraw Clay & Brick Co.
 Levy & O'Brien
 Lynch Bros.

McGulre, Terence
 Malley, Wm.
 Nicholson & Reilley
 Nicholson & Sons
 Peck Brick Co.
 Renn, E. N. & Co.
 Shankey, Thos & Son
 Snedeker Bros.
 Washburn, L. H.
 Washburn & Co.
 Washburn & Fowler
 Wood & Allison

HOOSICK FALLS—Dolan, John, 30 River rd
 HORNELLSVILLE—Preston Brick Co.
 HORSEHEADS—Elmira Shale Brick Co.
 HUDSON—Arkison Bics.
 Bartlett, Fred'k W.
 Uniform Brick Co.
 JAMESTOWN—Jamestown, Shale Paving Brick Co.
 JOHNSTOWN—Kilmer, Robert M.
 KINGSTON—Hutton Co., 221 E Strand
 Shultz, Chas. A. (Est. of)
 Terry Bros. Co.

KIRKVILLE—Kirkville Brick Co.
 KREISCHERVILLE—(See New York City, Borough of Richmond)
 LANCASTER—McCutcheon, C. H.
 LANSINGBURG—(See Troy)
 LITTLE NECK—(See New York City, Borough of Queens)
 LOCKPORT—Mosell, Aaron
 MECHANICSVILLE—Cary Brick Co.
 Champlain Brick Co.
 New England Brick Co.

MIDDLETOWN—Smith, S. A.
 MONTROSE—Bellefeuille, E. D.
 Morton, John
 NEW BRIGHTON—(See New York City, Borough of Richmond)

NEWBURGH—Bourue, C. Clayton
 Denning's Point Brick Co.
 Hotaling, Jno. M.
 Lahey, Wm.
 Newburgh Brick Co.
 NEW PLATZ—Lowe Brick Co.

NEW YORK CITY.

Boroughs of Manhattan & Bronx

NEW YORK—American Sand Lime Brick Co., 39 Cortlandt

Barnes Wm H., 680 12th av
 Berkshire White Brick Co., 32 Liberty
 Bourne C. Clayton, 628 W 52d

CARTER, BLACK & AYERS
 (Mfrs'. Agents), 1 Madison av. (See adv. index, end of book.)

CHESTNUT RIDGE WHITE
 Brick Co. (Eight Colors) (See adv. index, end of book)

FISKE & COMPANY (Inc.), Flat
 Iron bldg. (See adv. index, end of book)

FLEMING & CO. (Dealers), 123
 Liberty. (See adv. index, end of book)

Fredenburg & Lounsbury (Mfrs' Agents), 289
 Harris Brick Co., 27 Gt. Jones 4th av
 Kling, John J., 624 W 52d
 Klugland Brick Co., 1133 B'way
 Kreischer (The), Brick Mfg Co.
 McNamara John C., 634 W 52d

MAURER, HENRY & SON, 420 E
 23d. (See adv. front inside cover)

Ohio Mining & Mfg. Co.
 Peabody Clay Co., 11 B'way
 Peerless Brick Co., ft of E 118th
 Penn-York Brick Co., 2 Hudson
 Person & Co. (Mfrs' Agents), 160 5th av
 Phila. & Boston Face Brick Co., 140 W 42d
 Plummer Albert C., 121 W 42d st
 Powhatan Clay Mfg. Co., 1123 B'way
 Richmond Brick Co., 342 W 14th
 Rossville Brick Co.
 Samson Brick Co., Fuller bldg

SAYRE & FISHER CO., (Hard Building), 261 B'way. (See adv. front inside cover)

Spears Brick Co., 22 E 136th
 Staten Island Brick & Tile Mfg. Co., 132 Nassau

THOMAS, E. H. (Mfrs Agt), 1123
 B'way

Underhill, W. A. Brick Co. ("Colbaugh"), 7 E 42d

Uniform Brick & Clay Co., 132 Nassau
 Wardenlyffe Brick & Tile Co., 39 Cortlandt
 Willard C. T. Co., 110 E 23d

Borough of Richmond.

GREEN RIDGE—Dunn & Dolan
 Richmond Brick Co.

(END OF NEW YORK CITY)

NIAGARA FALLS—Frontier Brick Works
OGDENSBURG—Page, A. A. & Co.
OLEAN—McMurray, J. C. & A.
PEEKSKILL—Horton, Stephen D.
PAVILION—Peck & Wood
PLATTSBURG—Gilliland & Day
ROCHESTER—Flower City Brick Co., Powers bldg
 New York Pressed Brick Co., 27 St Paul
 Rochester Brick & Tile Mfg. Co., 243 Powers bldg
 Rochester German Brick & Tile Co., 279 South av
RONDOUT—(See Kingstou)
ROME—Parry, W. W.
ROSSVILLE—(See New York City, Borough of Richmond)
SAG HARBOR—Sag Harbor Brick Works
SANDY HILL—Sandy Hill Brick Co.
SANGERFIELD—Havens, P. B. & Son
SCHENECTADY—Case, Sherman A.
STONY POINT—Heltlinger, John
 Reilly, Mrs. Margaret F.
 Reilly & Clark
 Reilly & Rose
SYRACUSE—Merrick, C. & L., 1008 S Salina
 New York Brick & Paving Co. (Building & Pack, Geo. W. & Son (Sewer)
TONAWANDA—Tonawanda Brick Co.
TROY—Dufresne, Louis
 Ferguson Brick Co., Hoosick nr 15th
 Glass, Robert & Co., Hoosick, above 10th
 Palnton, Chas. R., Head of House av
 Roberts, Jeremiah, 10th s of Peoples
 Troy Brick Co., 301 River
 Troy Fireproofing Co.
UNION—Nantlecke Brick & Tile Co.
UTICA—Doyle, John, ft of Schuyler
 Utica Brick Works
 Weaver's Geo. F. Sons Co., 237 Bleeker
 White's Pottery, 232 Whitesboro
VERPLANCK—Bonner Brick Co.
 Hudson River Brick Mfg. Co.
WATERTOWN—Watertown Pressed Brick Co., 240 Main
 Watertown Sand Brick Co., 6 Factory

NORTH CAROLINA.

ASHEVILLE—Asheville Brick & Tile Co.
 Hildebrand, David
BURLINGTON—Kirkpatrick Bros.
CHARLOTTE—Carson Brick Co.
 Charlotte Brick Co.
CONCORD—Brown, R. A.
DURHAM—Fitzgerald, R. B.
 Holder & Cheek
 Mangum, T. J.
 Max Brick & Tile Co.
 Teer, G. W.
EDENTON—Edenton Brick Works
ELIZABETH CITY—Elizabeth City Brick Wks.
 Thompson, F. G.
ELKIN—Polindexter & Madison
FAYETTEVILLE—Poe, E. A.
GIBSON—Green Pond Granite & Brick Co.
GOLDSBORO—Grant, H. L.
 Griffin, A. T.
GREENSBORO—Kirkpatrick, D. A.
 Watson, W. A., Sr.
HAW RIVER—Trolinger, Jno. A.
HIGH POINT—High Point Brick Co.
KINSTON—Carolina Brick Co.
REIDSVILLE—Robinson, J.
WAYNESVILLE—Waynesville Brick Co.
WELDON—Chockoyotte Brick Co.
 Weldon Brick & Land Improvement Co.
WILMINGTON—Hydraulic White Brick Co.
 Moore, Roger Sons & Co., 104 N Water
WILSON—Lucas, Silas
WINSTON SALEM—Hedgecock, R. W.
 Winston Brick & Tile Co.

NORTH DAKOTA.

BISMARCK—Johnson, Ole (Tile)
BOTTINEAU—Hall, Wm.
DICKINSON—Dickinson Fire & Pressed Brick Co.
DRAYTON—Drayton Brick Co.
FARGO—Anderson Bros.
GRAND FORKS—Dinnie Bros.
 Red River Valley Brick Co.
HILLSBORO—Hillsboro Brick & Tile Co.
KENMARE—Kenmare Hard Coal, Brick & Tile Co.
OHIO.
ADA—Richeson, L.
ADDYSTON—Cincinnati Brick Co.
AGOSTA—Imbody R. M. (Tile)
AKRON—Akron Brick & Tile Co. (Shale)
 Akron Brick & Tile Co. (Shale)
 Colonial Pressed Brick Co.

Cooper Brick Co., Spicer s of E South
 Cooper Bros., Spicer n Exchange
 Cooper, Wm.
 Crouse G. W. Jr., S E cor Spicer & South
 McCausland Bros., E Tallmadge av
 Robison Clay Product Co.
 Windsor Brick Co. (and Tile).
ALGER—Alger Clay Mfg. Co.
ALLIANCE—Auld, John & Sons
ANTWERP—Harmann & Sons
ASHLEY—Dennils, M.
ASHTABULA—Simonds, C. W.
ATHENS—Athens Brick Co.
ATTICA—Kellar, G. M.
AVERY—Park & Tucker
AXLINE—Fultonham Brick & Tile Co.
BALTIMORE—Neff, Reuben
BARBERTON—Diamond Brick Co.
BASCOM—Miller, J. A. & Co. (Tile)
BATAVIA—Batavia Brick Co.
 Clermont Brick Co.
BEAVERDAM—Danner, Chris.
BELLAIRE—Bellaire Brick Co.
 Standard Stone & Brick Co.
BELLE CENTER—Roger, Chas.
 Stewart, J. I.
BETTSVILLE—Flanders, Elia (Mrs. G. S.) (Brick & Tile)
BLANCHESTER—Blanchester Brick & Tile Co.
BLOOMDALE—Smith, John F.
BLOOMVILLE—Bloomville Brick & Tile Co.
BRECON—Leidecker Brick Co.
BRICE—Brice Clay Co.
BROOKLYN—Thies & Voss Co.
BRYAN—Bryan Brick Co.
 Neff, Benj. F.
BUCYRUS—Battelfeld, L. H. (Tile)
 Witter & Breisinger
BYERSVILLE—Guernsey Brick & Contr'g Co.
CAMBRIDGE—Cambridge Brick & Tile Co.
CANAL DOVER—Bose & Kaser
CANTON—Almo Clay Co.
 Canton Hollow Brick Co.
 Metropolitan Paving Brick Co. (Shale)
CAREY—Stief Bros.
CARROLLTON—Carrollton Granite Brick Co.
CARROTHERS—Clemens, J. T.
CELINA—Celina Brick Co.
CENTERBURG—Landrum & Landrum (Tile)
CHIPPEWA LAKE—Chippewa Shale Brick Co.
CINCINNATI—CINCINNATI WALL TILE
 Co., 206 E 5th. (See adv. index, end of book)
 Gould, John F., Duck Creek rd nr Montgomery pike
 Hyde Park Brick Co., McCormick rd, Hyde Park)
 Kolde, Dietrich, Summer, N of Gest
 Meter, A. & Co., Builders & Traders' Ex.
 Suer Bros., Mitchell av opp Tower
 Tegeler, Herman, Arlington & O. S. W. Ry.
 Warburg, Bernard, McLean av n York
 Warburg, John T., McLean av n York
 Weher, Harry, North end of Eden av
 Welling, G. H. & Bro., McLean av nr York
 Westwood Brick Co., Union Trust bldg
 Wuebker, Jos., ft of Setchell
CLEVELAND—Barkwill Brick Co., ft of Her-
 Barkwill & Bradley, The Arcade
 Brookside Brick Co., Denison av nr Ogden
 Carrollton Granite Brick Co., 41 Central av
 Cleveland Brick & Clay Co., Harvard c
 Valley
 Cleveland Hydraulic Press Brick Co., Scho-
 field bldg
 Craine Brick Co., 3225 Orchard et S W
 Cullen Bros., Reeves & Beyerle
 Dawson & Carder, ft of Rutland
 Duty, Andrew, ft E 78th (Rutland) S E
 Eggers Brick Co., Valley rd nr Jennings rd
 Farr Brick Co., 3732 B'way S E Bklyn
 Gryn, Geo. H., Harwood
 Harrison, Wm. H., E 49th
 Ohio Clay Co., Garfield bldg
 Standard Brick Co., on Cleveland Terminal
 & V. R. R. Bkln
 Towle Brick Co., Jennings rd ext nr B. &
 O. R. R. Bkln
 Wilson, John, Independence, junc. Ohio
 Canal
CLYDE—Clyde Brick & Tile Works
COLDWATER—Walters, A. X.
COLUMBUS—Capitol City Brick Co., 400 E
 5th av
 Columbus Brick and Terra Cotta Co., 20
 Columbus Clay Mfg. Co., Marzetti bldg
 Columbus Contractors' Supply Co. (Shale),
 Ruggery bldg
 Columbus & Hocking Coal & Iron Co.
 Conard, John A., Furnace and Ark.
 Dow, E. W., 17th av nr 4th
 Ferris, Warren B., Col. Savings & Trust bldg
 Granite Brick Co., West end Dublin av
 Ironclay Brick Co., 55 Ruggery
 Kulp, J. & Son, Marion av
 Schmitt Brick Co.
 Schnelder, Adam, Yoeman nr Cleveland av
 South Webster Brick Co., The, 527 cols Sav.
 & Tr. bldg
 Sugar Grove Brick Co., The, 901 Harrison
 bldg
 Watson, R. L. (Dealers) Brunsou bldg
CONDIT—Chadwick, W. W.
COSHOCOTON—Coshocoton Brick Co.
COVINGTON—Wagner, J. G.
CROOKSVILLE—Crooksville Brick Co.
CUYAHOGA FALLS—Keller Brick Co.
DAYTON—Boren, John W., Smithville rd
 Chadwick, S. H., Dakota c Summit
 Dayton Brick Co., 1600 S Wayne av
 Hosket, Chas. F., Springfield Pike
 Jordan & Miller, 120 S Euclid av
 Kempert, A. F., 245 S Morton av
 Kloecker, Wm., Xenia pk nr Smithville rd
 Parish, E. K., W 3d nr Corp Line
 Telgler Bros., Patterson bldg
 Tinnerman, Wm. A., Smithville rd nr Huff-
 DEFENSE—Moen, H. G. man av
DELAWARE—Delaware Clay Mfg. Co.
DELPHOS—McKenzie, C. & W.
DESHLER—Hanns, Harmon & Baer
DILLONVILLE—Dillonville Brick & Tile Co.
DRESDEN—Dresden Clay Co.
DUPONT—Etter, Wm.
DUVALL—Teegarden, J. W. & Co.
EAST LIVERPOOL—Cox, Geo. S.
 East Liverpool Brick Mfg. Co.
 Gambles & Surles
 National Furnace Brick Co.
EATON—St. Clair Tile Co.
ELI—Fent, Geo. R.
ELMORE—Moser, H.
ELYRIA—Wallhead, Wm. L. & Son
FARMER—Finkle Bros.
FINDLAY—Findlay Hydraulic Pressed Brick
 Co.
FOREST—Forest Clay Works Co.
FORT JENNINGS—Mericle, Aaron
FRAZEYSBURG—Frazeyburg Brick Tile Wks
FREDERICKSBURG—Fredericksburg Brick &
 Coal Co.
 Redett, J. H. & Sons
FREMONT—Billow, Chas. F.
 Fremont Pressed Brick & Mfg. Co.
 Reynolds, Albert A.
 Riverside Fuel & Supply Co.
GALLIPOLIS—McCormick Tile & Brick Works
GERMANTOWN—Crauder, Henry
GLANDORF—Nartkers & Schroeder
GRAND RAPIDS—Carr, D. R.
GREENFIELD—York Bros.
GREEN SPRING—York Bros.
GREENVILLE—Dwyer & Irwin
 Richeson, Nelson & Moore
GROVE CITY—Darnell, E. F.
GROVEPORT—Central Ohio Roofing Tile &
 Brick Co.
GUTMAN—Wehinger Bros.
HAMILTON—Durrrough, Jno. W.
 Hamilton Brick Co.
HAMLER—Mack, Michael J.
HANEY—Lovell & Brooks
HARRISON—Vincent, W. C. & Son
HAVERHILL—Oakes, J. & Sons
HAYDENVILLE—Haydenville Co. (The)
HILL GROVE—Daubenmire, J. A. & C. E.
HOLGATE—Welsbacher, Jno. A.
IRONDALE—Pritschbau, Adolph
IRONTON—Ashland Fire Brick Co.
 Wileman, Jas.
JAMESTOWN—Dodd & Carpenter
JEFFERSON—Loftus, Martin
JEFFERSONVILLE—Allen, George
JEWELL—Flory Bros.
 Moser, J. F.
KALIDA—Rambo & Rlmer Bros.
KENTON—Schmidt, Wlphart
KINDERHOOK—Shaub, Sebastian
KINGSTON—Kingston Brick & Tile Co.
LACARNE—Ballin, August
LAKEWOOD—Maile, C. R.
LANCASTER—Cowden Brick & Tile Co.
 Henry, W. B. & Son
LARUE—Miller, B. W.
LATTY—Bailey, R. H.
 Mustard, W. H.
LEAVITTSBURG—Pittsburg Brick & Tile Co.
LIMA—Bour Bros.
LOGAN—Logan Brick Mfg. Co. (Vitrified Fire
 Logan Clay Product Co. Clay Building)
LOUISVILLE—Keim Brick & Tile Co.
 Louisville Brick & Tile Co.
 Stoneware Tile Co. (Hollow Building Brick)
McARTHUR—McArthur Brick Co.
McCLURE—Burwell, Saml. L. (Tile)
McCOMB—Mogle Bros. (Tile)
 Pendleton, Grant (Tile)
McGILL—Mumma Bros.
MAGODORE—Colonial Pressed Brick Co.
MALVERN—Big Four Clay Co.
 Malvern Clay Co.

MANCHESTER—Lang, F. M. & Co.
 MANSFIELD—Wise, F. H., North of City
 MAPLEWOOD—Rust, A. F. (Tile)
 MARIETTA—Cisler, Thomas & Co.
 MARION—Dix & Mason Brick Co.
 Milholland Pressed Brick Co.
 MARYSVILLE—Burns, J. P.
 MASSILLON—Everhard Co.
 Massillon Brick Co.
 Massillon Stone & Fire Brick Co.
 MAUMEE—Maumee Cement Block Co.
 MENDON—Fox, L. E. (Tile)
 MERCER—Thompson, C. B. (Tile)
 MIDDLEPORT—Burton, W. M.
 Middleport Brick Co.
 MIDDLETOWN—Fresh, E. L. & Bros.
 Smith, Wm. & Co.
 MILAN—Lavey, James (Tile)
 MILLER CITY—Wolfstrom, S. V.
 MILLERSBURG—Millersburg Brick & Tile Co.
 MILLERSPORT—Brison Bros.
 MINERAL CITY—American Fire Brick & Clay
 Co. (Sewer, Circle, Foundations, etc.)
 Federal Clay Product Co.
 Holden, C. E.
 Markley, Geo. J.
 MINSTER—Steineman, Mrs. Anna
 MONROEVILLE—Hess, Gust. (Tile)
 Mason, F. H. & Son
 MONTPELIER—Slaybaugh, W. R.
 MORRAL—Morrall Tile Co.
 MOUNT GILEAD—Hickson, Joseph
 McGowan, B.
 MOUNT HEALTHY—Roettie Bros.
 MOUNT STERLING—Michael, George (Tile)
 NAPOLEON—Mehring, C. E. & Co.
 NELSONVILLE—Nelsonville Brick Co. (Build-
 ing)
 Nelsonville Sewer Pipe Co.
 NEWARK—Lamb & Rutledge
 National Silica Brick & Stone Co.
 Vogelmeir Bros.
 NEW BREMEN—New Bremen Brick Co.
 Steineman, J. C. (Tile)
 NEW COMERTOWN—Novelty Brick & Coal
 Co.
 NEW DOVER—Shuler & Williams
 Co.
 NEW LEXINGTON—New Lexington Press Brick
 Co.
 NEW LONDON—Ledgett, George
 Richards, Samuel (Tile)
 NEW PHILADELPHIA—Edwards, George J.
 NEW WASHINGTON—Baumgartner & Co.
 (Brick & Tile)
 Seitter, Wm. Son & Co. (Brick & Tile)
 NORTH CREEK—Ernsberger, H. (Tile)
 Killion & Mathlie
 NORTH ROBINSON—Fate, P. R.
 NORWALK—Norwalk Stone & Brick Co.
 OAK HARBOR—Gleckler, Fred.
 OAK HILL—Etna Fire Brick Co.
 Davis Fire Brick Co.
 Diamond Brick Co.
 Jones Fire Brick & Cement Co.
 Oak Hill Fire Brick & Coal Co.
 Ohio Fire Brick Co.
 OTTAWA—Van Cleve, C. B. & Co. (Tile)
 OTTOVILLE—Gmelner & Co.
 OXFORD—Oxford Brick Co.
 PAINESVILLE—Thompson, Chas.
 PAINTER CREEK—Swinger Bros. (Tile)
 PAULDING—Klingler, M. W. (Tile)
 PAYNE—Garmroth, Geo. (Tile)
 Rahrig, Aug.
 PERRYSBURG—Moser Bros.
 PICKERINGTOWN—Fenstermaker, W. E. (Tile)
 PLAIN CITY—Plain City Brick & Tile Co.
 PLATTSBURG—Campbell, D. H. (Tile)
 PLEASANTVILLE—Miller, N. H.
 PORTSMOUTH—Kaps, Jno.
 Louisville & Portsmouth Firebrick Co.
 Peebles Paving Brick Co. (Sewer, Sidewalk,
 Portsmouth Pressed Brick Co. etc.)
 Revare & Kleffner
 PRAIRIE DEPOT—Hedge, Frank T.
 RAVENNA—Mishler, M. B.
 RICHWOOD—Richwood Clay Mfg. Co.
 RITTMAN—Clippinger, J.
 Wright Tile Co.
 RIVER STYX—Ream, A. (Tile)
 ROCKFORD—Rockford Brick & Tile Co.
 ROSEVILLE—Roseville Brick & Terra Cotta
 Co.
 SCOTT—Downing, Hugh (Tile)
 SELMA—Thompson, Jessie (Tile)
 SHAWNEE—Ohio Mining & Mfg. Co.
 SHERWOOD—Kellermeier Bros.
 SHILOH—Prame, F. J. (Tile)
 SOUTH ZANESVILLE—South Zanesville Sewer
 Pipe & Brick Co. ("Bolen's" Brown Gran-
 ite & "Halwood")
 SPARTA—Weaver, H. D.
 SPENCERVILLE—Schaeffer, G. W.
 SPRINGFIELD—Grube, Adam & Son, Urbana ph
 n of corp. line
 Grube Bros., South end of Isabella
 Houck Brick Co., Robert Pike nr State

STEUBENVILLE—Nicholson, Edward, 325
 STRYKER—Rumsey, J. D. Market
 SUMMIT STATION—Columbus Clay Mfg. Co.
 SYCAMORE—Althouse Bros. (Tile)
 TIFFIN—Hall, John A. & Co.
 Heilman Bros. (Tile)
 TOLEDO—Auburndale Brick Works, The Spitzer
 Burkhart, Lawrence, N S Western av W of
 M. C. R. R.
 Collingwood Brick Co., c Blanchard &
 Marston av
 East Toledo Brick Co., 342 Erie
 Ellis, H. C., C. L. S. & M. S. Ry & Castile
 boul
 Flindlay Hydraulic Press Brick Co., Consaul
 nr Toledo Belt Ry
 Fox, John B., 2205 Lagrange
 Kohler Brick Co., The Nasby
 Logan Brick Mfg. Co. (Vitrified Fire Clay
 Northern Brick Co., The Building)
 Ohio Brick Co.
 Spear & Clarke, L S & M S Ry, n of Cen-
 tral av
 Tracy, F. E., Oakdale av & C H & D Ry
 TORONTO—Toronto Fire Clay Co.
 TRIMBLE—Trimble Brick Mfg. Co. (Building,
 Sewer and Sidewalk)
 TROWBRIDGE—Hammond, H. L.
 TROY—Troy Tile & Brick Co.
 URHICHSVILLE—Rifle, J. J.
 UNION FURNACE—Columbus Bricks & Terra
 Cotta Co.
 UPPER SANDUSKY—Blaser, E. G. (Tile)
 Katzenmeyer Bros.
 URBANA—Schaffer, George & Son
 Thackery, J. C.
 VERSAILLES—Murphy, John (Tile)
 WADSWORTH—Wadsworth Brick & Tile Co.
 WARREN—Warren Brick & Tile Co.
 Western Reserve Brick & Tile Co.
 WARSAW—Warsaw Brick & Tile Works
 WASHINGTON—Dore, David A.
 Henkle, A. C.
 WAUSEON—Guilford, C. E.
 WAVERLY—Bauersacks, G. A.
 WAYNESFIELD—Keith Bros. (Tile)
 WELLSVILLE—Champion Clay Co.
 Vulcan Clay Co.
 WEST MANCHESTER—Nelson Bros.
 WEST UNITY—Denman, W. M. (Tile)
 WICKLIFFE—Kline, John & Co. (Building and
 Sewer, Capacity 5,000,000)
 WILLIAMSBURG—Williamsburg Brick Co.
 WOODLYN—Chenault, W. A. (Tile)
 WOOSTER—Branstetter, Andrew
 Wooster Shale Brick & Clay Co.
 XENIA—Heaton, L. C. & R. C.
 YOUNGSTOWN—Interstate Limestone Co. (Suc-
 cessors to Bessemer Limestone Co.) (Wire
 Cut Shale; Capacity 100,000 per day)
 ZANESVILLE—Harris Brick Co., 28 N 2d
 Oakland Pressed Brick Co., Market c 3d
 Towusend, T. B. Brick & Contracting Co.,
 195 Market

OKLAHOMA TERRITORY.

ALVA—Bolte & Cox
 ANADARKO—Conley, Jos.
 CHANDLER—Chandler Pressed Brick Co.
 CLEVELAND—Hammer, Geo. F.
 CUSHING—Bittner & Alles
 EL RENO—Kelsch, Benj.
 Malone, D. W.
 Montrief & Earnest Brick Co.
 ENID—Enid Vitrified Brick & Tile Co.
 GEARY—Geary Pressed Brick Co.
 GUTHRIE—Guthrie Brick & Tile Co.
 HENNESSEY—Lane, A. E.
 HOBART—Wilke Pressed Brick Co.
 KINGFISHER—Berntsen, B. H.
 McLOUD—Adams Bros. (Tile)
 MANGUM—Mangum Press Brick Co.
 OKLAHOMA—American Brick & Tile Co.
 Ammann & Wood
 Oklahoma Brick Co.
 U. S. Pressed Brick & Tile Co.
 SHAWNEE—Danal, E.

OREGON.

ASHLAND—Jordan & Richardson
 BAY CITY—Provost, F.
 CORVALLIS—Corbett, W. C.
 EUGENE—Martin, J. M.
 FARMINGTON—Ludess & Brown
 GOLD HILL—Stickle Bros.
 HOOD RIVER—Boyd, L. D.
 HUBBARD—Miller, I. S.
 INDEPENDENCE—Cooper, J. R.
 McMinnville—Seiters & Son
 Swan & Heath (Tile)
 MEDFORD—Priddy, G. W.

NEWBERG—Newberg Pressed Brick & Terra
 Cotta Co.
 NORTH YAM HILL—Withycombe, P. (Tile)
 PORTLAND—Andersou, Jas., 7th c Russell
 Kern, L. E., E 41st c Division
 Krebs Bros., Section Line rd
 SALEM—Burton, A. A.
 Murphy, J. E.
 SYLVAN—Cooke, O. F.

PENNSYLVANIA.

ALLEGHENY—Atlas Brick Co., Charles
 California Av. Brick Co.
 Huckestein, Jno. A. & Co., 37 Fairmount
 Lovatt, C. B. & Bro., 20 N Diamond, E. A.
 Miller Brick Co., Charles nr Wilson av
 ALLENTOWN—Allentown Paving Brick Co.
 Baker, Jno. M., ft of Allen
 Downing, Jos., Canal, E. A.
 Grim Bros., S. A.
 Kichline Brick Co., S. A.
 Mattern, D. W., 10th & Tilghman
 Nonnemacher Brick Co., 12th & Liberty
 Roth, Wm. & Co., 831 Meadow
 Sensenbach, Chas. C., S. A.
 Swoyer Bros. Brick Co.
 West End Brick Co., 15th & Allen
 ALTOONA—Altoona Brick & Tile Co.
 Altoona Pressed Brick Co.
 Altoona Sand, Stone & Brick Co.
 ASPERS—Penn Tile Works
 ATHENS—Van Scoten, G. L.
 AUBURN—Auburn Shale Brick Co.
 BEACH HAVEN—Beach Haven Brick Co.
 BEAVER FALLS—Beaver Clay Mfg. Co.
 Beaver Falls Brick Co.
 Mound Brick Co.
 BERWICK—Beach Haven Brick Co.
 BETHLEHEM—Levers, A. B.
 BLOOMSBURG—Ferguson & Giger
 BOLIVAR—Reese-Hammond Fire Brick Co.
 BOSTON—Harper, C. M. C.
 BRADDOCK—Keller & Milligan
 BRADFORD—Alumina Shale Brick Co.
 Bradford Pressed Brick Co.
 Broughton, P. B.
 Hanley, Wm.
 BRIDGEVILLE—Mayer, C. P. & Sons
 BROOKVILLE—Humphrey Brick & Tile Co.
 BUTLER—Butler Brick & Tile Co.
 CALIFORNIA—California Clay Mfg. Co.
 CALUMET—Rumbaugh, J. M. Brick Co.
 CARLISLE—Carlisle Brick Co.
 Enola Brick Co.
 Spotts, A. J.
 CARNEGIE—Carnegie Brick & Stone Co.
 Fort Pitt Stone & Brick Co.
 Rosslyn Brick Co. (Building, Foundation &
 Sewer)
 CHAMBERSBURG—Spahr, Jas. B.
 CHARLEROI—Charlerol Brick Works
 CHESTER—Law, Martha
 Robinson, Danl.
 CHICORA—Chicora Brick & Tile Co.
 CLEARFIELD—Clearfield Clay Working Co.
 Clearfield Firebrick Co.
 Standard Brick & Tile Co.
 COLUMBIA—Columbia Brick Co.
 Gohn, Daniel F.
 DELPHI—Miller, Jno.
 DELTA—Delta Brick Co.
 DUBOIS—Dubois Clay Mfg. Co.
 Dubois & Butler Brick Co.
 EASTON—Messer, John (Estate of)
 Zehnder, Daniel
 EAST STROUDSBURG—Zacharias, Jos. H.
 EASTVILLE—Douglas-Whisler Brick Co.
 EDDYSTONE—Fields & Co.
 ELLWOOD CITY—Elwood Brick Co.
 EMAUS—Blinder Bros.
 ERIE—Dudenhoeffer, Frank
 Dunn, Hy. C.
 Genck Bros.
 McCarty, Jas.
 Paradine, T. J. & Son
 EVERSON—Livengood, A. S.
 FALLSTON—Fallston Fire Clay Co.
 Standard Fire Clay Co.
 FAYETTE CITY—Dinsmore Bros.
 FORD CITY—Ford City Brick Co.
 FREDERICKSBURG—Meyer, David
 GENESEE—Genesee Sand-Lime Brick Co.
 GETTYSBURG—Gettysburg Brick Co.
 Pfeffer & Son
 HAMBURG—Hamburg Vitrified Brick Co.
 Tobias & Sheridan
 HANOVER—Snyder, Edw. H.
 HARMARVILLE—Kountz Bros. Co.
 HARRISBURG—Bigler, S. L. & Co.
 Harm Bros.
 Manchester Shale Brick Co.
 Steelton & Harrisburg Brick Co.
 HATBORO—Brown, Jos.

HATFIELD—Benner, Edw. B.
 HITES—McFetteridge Bros.
 HOLLIDAYSBURG—Portage Brick Co.
 HOMESTEAD—Harbison-Walker Co. (Firebrick)
 Homestead Brick Co.
 HOPE CHURCH—Hope Brick Co.
 HOWARD—Howard Brick Co.
 HUNTINGDON—Barrick Bros.
 Beaver, F. Bayer & Co. (From Slate Waste)
 INGRAM—Johnston, A. F.
 JEFFERSONVILLE—Haws, C. L. & Bro.
 JOHNSONBURG—Johnsonburg Vitrified Brick Co.
 JOHNSTOWN—Basic Brick Co.
 Campbell Brick Co.
 Haws, A. J. & Son (Firebrick)
 Johnstown Pressed Brick Co.
 Mt. Union Silica Brick Co.
 KANE—Kane Brick Co.
 KENNETT SQUARE—Marvel & Grady
 KINGSTON—Wilcox, Chester B.
 KITTANNING—Daugherty Bros. Brick Co.
 Kittanning Brick & Fire Clay Co.
 Kittanning Clay Mfg. Co.
 KUNKLETOWN—CHESTNUT RIDGE
 White Brick Co. (Eight Colors) (See adv. index, end of book)
 LANCASTER—Bomberger, Henry, Pearl c 2d
 Pontz, Adam, Ranck's Mill rd n Grofftown rd
 Pontz, Jacob, 351 W James
 Wise, C. & Bro., Manor c Prospect
 LANSDALE—Schoil, S. L. & Sons
 LANSLOWNE—Sullivan, Jno.
 LATROBE—Latrobe Brick Co.
 LEBANON—Dressel, Jno.
 Light, Sami L.
 Patterson, R. I. & Co.
 Peerless Brick Co.
 LEHIGHTON—Graver, H. A.
 LEWIS RUN—Alumina Shale Brick Co.
 Bradford Pressed Brick Co.
 Broughton, P. B.
 Tuna Valley Pressed Brick Co.
 LINDSEY—Rogers, W. T.
 LOCK HAVEN—Lock Haven Firebrick Co.
 McKEESPORT—Bowman Bros.
 Dougherty, Oscar R.
 McKeesport Brick Co.
 Standard Brick Co.
 Tempest Brick Co.
 McKEES ROCKS—McKees Rocks Brick Co.
 MANCHESTER—Manchester Shale Brick Co.
 MARS—Mars Brick & Tile Co.
 MEYERSDALE—Duncombe, Geo. H.
 MIDDLETOWN—Middletown Shale Brick Co.
 MIFFLINBURG—Mifflinburg Brick Co.
 MILLERSBURG—Heatherman, Wm.
 MILTON—Fries, W. E.
 MONACA—Weich-Bright Co. (Firebrick)
 MONESSEN—Monessen Brick, Tile & Terra Cotta Works
 MONONGAHELA—Monongahela Clay Mfg. Co.
 MONT CLARE—Mont Clare Brick Co.
 MORTON—Ackerman, Henry J.
 MOUNT JEWETT—Mt. Jewett Clay Co.
 MOUNT UNION—Mt. Union Silica Brick Co.
 NAZARETH—Nonpareil Brick & Clay Co.
 NEW BETHLEHEM—Canton Tile Hollow Brick Co.
 NEW BRIGHTON—Brighton Fire Clay Co.
 Howe, R. H.
 Ingram & Co.
 Smith, A. F. Co.
 NEW CASTLE—Croton Limestone & Brick Co.
 Neshannock Brick & Tile Co.
 NEW OXFORD—Alwine Bros.
 Carbaugh, Wm. H.
 Staub, Jas. A. & Bro.
 NEWPORT—Furie, E. E. & Bro.
 NEWTOWN—Worstell Bros. & Co.
 NEWVILLE—Hefliefinger, W. A.
 NORRISTOWN—Morgan, Geo. C.
 Norristown Brick Co.
 Spring City Brick Co.
 OSCEOLA MILLS—Osceola Silica & Fire Brick Co.
 OSGOOD—Cozadd, Hiram
 OXFORD—Slack, Branson
 PAWLING—McAvoy Vitrified Brick Co.
 PENNSBURG—Reed & Landis
 PERKASIE—Afferbach, J. F.
 PHILADELPHIA—Adams Clay Mining Co., Land Title bldg
 Aidan Brick Co., 148 N. 2d
 Amer. Enam. Brick & Tile Co.
 Atlantic Brick Mfg. Co., Betz bldg
 Byrne Bros., 27th & Somerset
 Byrne Peter (est) 20th c Cambria
 Carroll, H. C. & Sons, Girard av & N 58th
 Clay Product & Supply Co., R. E. Trust bldg
 Conway, William S., 58th c Walnut
 Coyle & Sons, 4321 N 5th
 Dobbins, Murrell, 1511 Sansom
 Dougherty, Edw., R Sun la & N Town la

Earley, John H., Nicetown lane, bei Front
 Eastern Hydraulic Press Co., Real Est Trust Bldg
 Equitable Brick Mfg. Co., S 60th cor Pine
 Esseg & Myers, N 2d nr Butler
 Gaynor, Michael, 30 c Morris
 Gesner, Thomas H. & Son, Woodland av c 65th
 Goodwin, John, N 27th nr Hunting Park
 Hamburg Vitrified Brick Co., Land Title bldg
 Hanarty, Jno. & Sons, 58th c South
 Hatten, Owen Jr., Fishers la c 9th
 Huhn, Samuel (Est.), S 33d cor Dickinson
 Jarden Brick Co., Land Title Bldg.
 Kelley, William, 3d c Rising Sun lane
 Kelly, Christopher, N 6th cor Sedgley
 Kelly, Patrick & Son, Olney av & Newtown
 Kennedy, John M., Jr., Ontario c C
 Kecham, O. W. (Mfrs agt), S 7th
 Lehigh Brick Co., 27th & Cambria
 Leuton Brick Works, 25th & Passy'k av
 McAvoy's, Thomas B. Sons, N Town la nr Ktn av
 McAvoy Vitrified Brick Co., Ger. Amer. bldg
 McAvoy & McMichael, Ltd, 27th c Dickinson
 McAvoy & Morris, S 31st cor Dickinson
 Mack Mfg. Co. (Building & Foundation) Land Title bldg
 MAURER, HENRY & SON, Penna bldg. (See adv., inside front cover.)
 Montolio Brick Works, Penna bldg
 Murtha, D. C., N 16th c Butler
 Phila. Brick Co., 25th c Passyunk av
 Rose, T. J., Brick Mfg. Co., Erie av c G.
 Ridley Park Brick Co., Provident bldg
 SAYRE & FISHER CO., Heed bldg. (See adv. front inside cover)
 Seitter's F. Sons, Nicetown la nr G.
 Siner, H. M. & C. B.
 Tansey Brick Co., 2d st pk & Godfrey av
 Webster & Keyser, 30th cor Tasker
 Young, Chas. A., 24th c McKean
 PINE GROVE—Pine Grove Vitrified Brick Co.
 PITTSBURG—Allegheny Brick Co., Park bldg
 American Sewer Pipe Co., Bessemer bldg
 Benz, J. & H., Quarry Run rd
 Beckett, J. W. N., Pacific av & Colombo
 Blair Bros., Stanton av & Black
 Booth & Flinn (Ltd.), 1942 Forbes av
 Boyd Hill Brick Co., Vickroy c Magee
 Carbon Brick Co., Farmers Bank bldg
 Central Brick Co., Diamond Bank bldg
 Continental Brick Co., House bldg
 Darlington Brick & Mining Co., 6366 Frankstown av
 Entress Brick Co., 2240 Webster av
 Federal Clay Products Co.
 Imperial Brick Co.
 Iron City Brick & Stone Co.
 Keeling Brick Co., 135 S 21st
 Kelly Street Brick Works, Kelly & Torrens
 Kittanning Brick & Fire Clay Co., Empire
 Knowison & Son, Vickroy & Cooper bldg
 Lanz, M. & Sons, 34th & Jane
 Mack Mfg. Co., Arrott bldg
 McKinley, R., & Sons, Singer & Frankstown av
 McLain, E. S. & Son (Firebrick), Park bldg
 Miller-Hummel Clay Mfg. Co., German National Bank bldg
 Norris Mining & Mfg. Co., House bldg
 Sankey Bros., 2112 Carson
 Smith Bros. Brick Co., Park bldg
 Squirrel Hill Brick Co., Bigelow & Tredegar
 Trafford City Brick & Stone Co., 6101 Penn
 Union Brick Co. (Ltd.), Park bldg av
 Vanport Brick Co., Farmers Bank bldg
 Ward, J. H. & Sons Co., Wilson nr Park av
 West End Stone & Brick Co., 121 Wabash
 White, S. A., Lewis bldg
 PITTSTON—American Brick & Clay Mfg. Co.
 POTTSTOWN—Davidheiser, F. B.
 Egolf, P. L. & Co.
 Garber & Rhodes
 Roth, A. E.
 PUNXSUTAWNEY—Nordstrom, Mrs. M. J.
 QUAKERTOWN—Heukeroth, John
 QUARRYVILLE—Judith, George
 RALSTON—Ralston Brick Co.
 READING—Auburn Shale Brick Co., 313 Penn
 Katterskill Paving Brick Co.
 Kline, S., 149 N 8th, W R
 Montello Brick Co.
 Moyer & Co., 725 Penn
 Parker, W. H., c 9th & Pike
 Reading Shale Brick Co., 516 Penn
 Richmond Clay Product Co.
 Robinson, Wm. G., 212 Jefferson
 RENOV—Renovo Firebrick & Clay Works
 REYNOLDSVILLE—Reynoldsville Brick & Tile Co.
 Reynoldsville Clay Mfg. Co.
 RIDGWAY—Ridgway Brick Co.

ROCHESTER—Beaver Valley Roofing Tile, Brick & Terra Cotta Co.
 Milier Brick Co.
 Penna. Clay Co.
 ROYERSFORD—Keeley, A. T.
 Lewin, Thos. & Co. (Firebrick)
 Rogers & Co.
 SCRANTON—Interstate Conduit & Brick Co.
 Laurie, James, 1133 Prov rd
 Scranton Vitrified Brick & Tile Mfg. Co., 329½ N Washington av
 Standard Stone & Brick Co. (Cement), 926 Penn av
 Stipp, Matthias, Board of Trade bldg
 SELLERSVILLE—Price, Chas. H.
 Willitt & Clymer
 SHAMOKIN—Union Brick Co.
 SHARON—Sharon Fire Brick Co.
 SOUTH BETHLEHEM—Benner, Irwin T.
 Groman Bros.
 SPRING CITY—Spring City Brick Works
 STEELTON—Steelton & Harrisburg Brick Co.
 STOWE—Roth, Adam E.
 SWISSVALE—Enterprise Brick & Stone Co.
 TELFORD—Price, Chas. H.
 TOWER CITY—Tower City Brick Works
 TURTLE CREEK—East Pittsburg Brick & Stone Co.
 UNIONTOWN—Snyder, Edw.
 Union Brick Co.
 Uniontown Brick Co.
 Williams, J. V. & Co.
 VANPORT—Dando, Geo. & Co.
 Gioninger & Co.
 Vanport Brick Co.
 WARREN—Higthouse, E. & Sons
 WASHINGTON—Donley Brick Co.
 Union Stone & Brick Co.
 Washington Brick Co.
 WAYNESBORO—Haley, R. A.
 Miller, W. H.
 WAYNESBURG—Ross, Jos. B. & Son
 Waynesburg Brick & Stone Co.
 WEST CHESTER—Guss, H. R.
 Sharples, Alfred D.
 WESTGROVE—Westgrove Brick Co.
 WEST POINT—Vaughan, Edward
 WILKES-BARRE—Dickover, Geo. T., Simon Long bldg
 WILKINSBURG—Enterprise Brick & Stone Co.
 Frances, W. J. & Co.
 WILLIAMSPORT—Guise Brick & Stone Co.
 Schrade, Jno. C.
 WINDBER—Keeley, Wm. P. Brick Co.
 YORK—Grothe, William H.
 Kissinger, Benjamin & Son
 Miller, Chas. E.
 Spring Garden Brick Mfg. Co.
 Stony Brook Slate & Brick Co.
 York Brick Works
 York Shale Press Brick Co.

RHODE ISLAND.

BARRINGTON CENTER—New England Steam Brick Co.
 PROVIDENCE—New England Steam Brick Co., Banigan bldg
 Stiles, I. L. & Son Brick Co., 75 Westminster

SOUTH CAROLINA.

CAMDEN—Camden Pressed Brick Co.
 CHARLESTON—Southern Hydraulic Brick Co.
 COLUMBIA—Guignard, G. A.
 DARLINGTON—Darlington Brick Co.
 GAFFNEY—Gaffney Brick Co.
 GREENVILLE—Mosley, Henry
 GREENWOOD—Mayes, W. H.
 HAMBURG—Rutherford, W. J. & Co.
 HARDEEVILLE—Savannah Builders' Supply Co.
 McCOLL—Mangum, P.
 MARION—Layton, D. A.
 MULLINS—Mullins Lumber & Brick Co.
 NEWBERRY—Pool & Matthews
 NORTH AUGUSTA—Hankinson Brick Co.
 Jackson & Phelan
 PICKENS—Geer, L. N.
 ROCK HILL—Ashe, W. N.
 SPARTANBURG—Hanna, G. H.
 Maxwell, J. L.
 SUMMERVILLE—Summerville Brick Works
 SUMTER—Sumter Brick Works

SOUTH DAKOTA.

ABERDEEN—Aberdeen Brick Co.
 ELK POINT—Murtha, Charles
 LEAD—Phillips & Bartlett
 REDFIELD—Redfield Cement Brick & Tile Co.
 SIOUX FALLS—Donahue Bros.
 Sioux Falls Pressed Brick Co.
 STURGIS—Galvin Bros.
 VERMILLION—Bower, W. G.

TENNESSEE.

BROWNSVILLE—McClish, Jno.
 CHATTANOOGA—Chattanooga Press Brick Works
 Chattanooga River Brick Co., W Missionary av & Belt Ry
 Chattanooga Sewer Pipe & Fire Brick Co.
 Howard & Park Brick Co., W White & Belt Ry.
 Southern Clay Mfg. Co. (Paving Brick)
 Spink-Genter Brick Co.
 Wells, J. W. & Bro., Harrison av nr Lauderdale
 CLARKSVILLE—Buck, G. W.
 Settle, W. A. & Son
 COLLIERSVILLE—De Launay & Patrick
 COLUMBIA—Simpson, Thos.
 DICKSON—Dickson Brick & Mfg. Co.
 DYER—Baulch & West
 DYERSBURG—Nichols, J. M.
 JACKSON—Owen, Charles
 Southern Tile & Brick Works
 KENTON—Kenton Brick & Tile Works
 KNOXVILLE—Garland & Weaver
 Knoxville Brick Co.
 Scott, A. A. Brick Co.
 So. Knoxville Brick Co.
 LAFOLLETTE—LaFollette Coal, Iron- & Rail-
 LEBANON—Page, W. S. & A. M. way Co.
 McKENZIE—Costen & Moore
 MARTIN—Walter, Jno. G.
 MARYVILLE—Jones, David
 MEMPHIS—Lyon, C. B. & Son (and Tile), Y
 & M V R R & Horn Lake rd
 Memphis Granite Brick Co.
 Memphis Paving & Tile Co.
 Tenn. Brick Co., Planters Ins. bldg
 MORRISTOWN—Luttrell, W. C.
 Morristown Brick Co.
 NASHVILLE—Bush, W. G. & Co., 238 N College
 Fulcher Brick Co., 301 Church
 Lesueur, W. D. & C. H., Garden nr Drift-
 Lewis, E. T. & Co. wood
 PULASKI—Sillman, W. B.
 RIPLEY—Ripley Brick Co.
 ROBBINS—Southern Clay Mfg. Co.
 SHELBYVILLE—Jackson, G. W. & Sons
 UNION CITY—Bransford, T. L.

TEXAS.

AMARILLO—Amarillo Artificial Stone & Brick
 ATHENS—Athens Fire Brick Co. Co.
 Athens Pressed Brick Co.
 Coleman, Chas. H.
 AUSTIN—Austin Brick Co.
 Butler, Michael
 BAGWELL—Love, Rush & Smith
 BEAUMONT—Beaumont Brick Co.
 BELTON—Bell County Brick Co.
 BLOSSOM—Blossom Brick Co.
 BOUHAM—Steger Sand-Lime Brick Co.
 BRENHAM—Brenham Brick Co.
 CALAVERAS—Mackey Brick & Tile Mfg. Co.
 CENTER—Fleshman, S. T.
 CUSHING—Austin, H. L.
 DALLAS—Atlas Press Brick Works, 291 Main
 Harry, J. M. Brick Co., North Texas bldg
 DENTON—Denton Press Brick Co.
 EAGLE PASS—D. & D. Brick Co.
 ELGIN—Butler Brick & Tile Co.
 Elgin Press Brick Co.
 EL PASO—El Paso Brick Co.
 Paul Brick Co.
 Sorenson & Morgan
 FERRIS—Atlas Press Brick Works
 Ferris Press Brick Co.
 Globe Press Brick Co.
 Lone Star Press Brick Co.
 GAINESVILLE—Gainesville Brick Co.
 GALVESTON—Palliser, Robt. (Mfrs.' Agent).
 2218 Mechanic
 Pollard, W. H. & Co. (Mfrs.' Agent), 18th
 HOUSTON—Butler Brick Co. bet A Level
 Houston White Brick Co.
 Taylor Brick Co.
 KENNEDALE—Kennedale Brick Works
 LAREDO—Johnson & Yaeger
 Valdez, Mariano
 LONGVIEW—Longview Pressed Brick Co.
 LUFKIN—Shearer, R. B.
 MARSHALL—Higgins, James
 Lake & McPhail
 MINERAL WELLS—Mineral Wells Pressed
 NACOGDOCHES—Fleshman, S. T. Brick Co.
 NEW BOSTON—Newton-Boston Pressed Brick
 PALMER—Palmer Pressed Brick Works Co.
 SAN ANTONIO—Mackey Brick & Tile Mfg. Co.
 Pan-American Pressed Brick Co.
 SEGUIN—Sonka, Joseph
 SHERMAN—Saul & Kreuger
 SULPHUR SPRINGS—Wilson, G. H.

TEXARKANA—Stevens, A. W.
 Texarkana Brick Co.
 WACO—Baker, James B.
 Harris, J. N. & Son
 Waco Pressed Brick & Tile Co.
 WINNSBORO—Winnsboro Pressed Brick Co.

UTAH.

LOGAN—Logan Brick & Lime Co.
 OGDEN—Calvert & Leek
 Ogden Pressed Brick & Tile Co.
 PROVO CITY—Holmes & Watkins
 Provo Pressed Brick Co.
 SALT LAKE CITY—Improved Brick Co.
 Salt Lake Fire Brick & Tile Co.
 Salt Lake Pressed Brick Co.
 Utah Fire Clay Co.
 WEBBSVILLE—Miller, Job
 WOODS CROSS—Hatch Brick Co.

VERMONT.

EAST RYEGATE—Ryegate Brick Co.
 ESSEX JUNCTION—Drury Brick & Tile Co.
 RUTLAND—Rutland Fire Clay Co.
 WATERBURY—Waterbury Brick Co.

VIRGINIA.

ARLINGTON—Walker, W. T. Brick Co.
 West Bros. Brick Co.
 ALEXANDRIA—Alexandria Brick Co.
 BRICK HAVEN—Jackson, Phillips, Brick Co.
 New Washington Brick Co.
 Potomac Brick Co.
 CHARLOTTESVILLE—Charlottesville Brick Co.
 Wheeler & Co.
 CHILHOWIE—Southern Clay Mfg. Co.
 DANVILLE—Fitzgerald, N. A. & T. J.
 Watson, J. T., Sr.
 ELKWOOD—Nalle, Orville
 FARMVILLE—Bolling, Thos. A.
 FREDERICKSBURG—Fredericksburg Brick
 Works
 HAMPTON—Richardson, R. H. & Son
 LAWRENCEVILLE—Lawrenceville Brick &
 LEXINGTON—Champe, Jno. A. Tile Co.
 LYNCHBURG—Roanoke Brick Co.
 MANCHESTER—Davis Brick Co., Maury c 14th
 Ready, Wm. J., 9th st rd nr Maury
 Redford, Geo. E., Maury nr 12th
 NEWPORT NEWS—Davis, J. W.
 NORFOLK—Batchelder & Collins, 141 Water
 Builders' Supply Co., Mahon av nr Bramble-
 Face, E. W. & Son, North av nr River
 Gordon & Gregory, 109 Ferguson av
 Mayo, W. R. & Sons, Carpenter bldg
 Nansemond River Brick & Tile Co., 145
 Standard Brick Co., 249 Main Water
 Stephens, Geo. A. & Co., Godfrey av nr
 NORTON—Norton Brick Co. Goff, D P
 PETERSBURG—Bristler, Chas. M.
 Brown, B. F.
 Turner, W. R.
 RICHLANDS—Richlands Brick Co.
 RICHMOND—Balto. Brick Co., 1920½ E Main
 Burroughs & Mankin, 812 E Main
 Davis, W. Benjamin
 Fulton Brick Works, Orleans & 2d
 Powers Bros. & Maynard, Williamsburg av
 Powhatan Clay Mfg. Co., 14 N 7th
 ROANOKE—Roanoke Brick Co., Crystal Spring
 ROSSLYN—Rosslyn Brick Co.
 SALEM—Pierpont, G. R.
 SOUTH BOSTON—Haskins, D. W.
 STRASBURG—Lemley, L. M.
 SUFFOLK—Harrell, D. C. & C. O.
 Nansemond River Brick & Tile Co.
 Suffolk Clay Co.
 WILLIAMSBURG—Jones, W. L.
 WINCHESTER—Barr, Edw. M.

WASHINGTON.

ABERDEEN—Stewart, Jas.
 AUBURN—Meade, A. H.
 CHENEY—Cheney Brick & Tile Mfg. Co.
 CLE ELUM—Gunther, Wm.
 COLVILLE—Rush Bros.
 EVERETT—Wasson, B. F.
 NORTH YAKIMA—Garrett Bros. Co.
 PORT ANGELES—St. Louis Pressed Brick &
 Terra Cotta Co.
 SEATTLE—Builders' Brick Co., Pioneer bldg
 Carstens, Ernest, 406 Occidental av
 Harper Brick & Tile Co., 125 Railroad av S.
 Hill Brick Co., 16 Av S & Dearborn
 Hill, W. C. Brick Co., Rainier av & Weller
 Lohse Brick Co., W. S. Mouth Dunvannish
 River

Pontiac Brick & Tile Co., Burke bldg
 Seattle Brick & Tile Co., 2221 Front
 Washington Brick & Tile Co., New York blk
 SPOKANE—Davie, J. T. & Co.
 Dishman, A. T.
 Spokane Brick Co.
 Washington Brick, Lime & Mfg. Co.
 TACOMA—Puget Sound Brick Co., Equitable
 UNIONTOWN—Herboth, Geo. b'og
 VANCOUVER—Hadden, L. M.
 WALLA WALLA—Walla Walla Brick & Tile
 Walla Walla Stone & Brick Co. Co.

WEST VIRGINIA.

BUCKHANNON—Groschup, W.
 CHARLESTON—Kanawha Brick Co.
 Neal-Morrow Co.
 CHARLESTOWN—Charlestown Brick & Tile Co.
 CLARKSBURG—Clarksburg Brick Works
 Clarksburg High Grade Shale Brick Co.
 ELKINS—Elkins Brick Co.
 FAIRMONT—Hutchinson-Barnes Brick Co.
 GRAFTON—Grafton Fire Brick Co.
 HUNTINGTON—Huntington Red Brick Co.
 West Virginia Paving & Pressed Brick Co.
 HURRICANE—McCallister, Wm. H.
 MARTINSBURG—Buxton, G. W.
 MORGANTOWN—Morgantown Brick Co.
 NEW CUMBERLAND—Acme Clay Works
 Claymont Brick Works
 Mack Mfg. Co. (Building & Foundation)
 West Virginia Fire Clay Works
 PARKERSBURG—Oakland Press Brick Co.
 Parkersburg Brick Works
 PHILIPPI—Philippi Brick & Tile Co.
 PIEDMONT—Piedmont Brick & Coal Co.
 SPILMAN—Camden Clay Co.
 WESTON—Weston Brick Co.
 WHEELING—Suburban Brick Co.

WISCONSIN.

ALGOMA—Storer, Fred.
 ARCADIA—Pahl, Ernest
 ATHENS—Athens Brick & Tile Co.
 AUGUSTA—Johnson, W. E.
 BARRON—Sparlin & Goss
 BARRONETT—Larson, Peter
 Peterson, Martin
 BERLIN—Morris, Chas. S.
 BLACK RIVER FALLS—Bright, G. H.
 BLANCHARDVILLE—Blanchard, Alvin
 BOSCOBEL—Ruka Bros. Mfg. Co.
 BURLINGTON—Burlington Brick & Tile Co.
 CHIPPEWA FALLS—Chippewa Brick Mfg. Co.
 CUMBERLAND—Donatene, S.
 DE PERE—Hockers, Jno.
 EAGLE RIVER—Eagle River Brick Co.
 EAU CLAIRE—Laycock, Henry
 ELKHORN—Sprague, E. H.
 FOND DU LAC—Fond du Lac Cement Brick Co.
 Hass, Herman G.
 FORT ATKINSON—Ft. Atkinson Brick Mfg. Co.
 FOUNTAIN CITY—Roettiger, H. & F.
 GRAND RAPIDS—Lossig, J. M. & Son
 GREEN BAY—Framale, Frank
 Green Bay Brick Co.
 HIKA—Wette, August
 HORICON—Pluck, J. W.
 JEFFERSON—Jefferson Brick & Tile Co.
 Kemmeter Bros.
 KAUKAUNA—Landauer & Rhode
 LA CROSSE—City Tile & Cement Co.
 MADISON—Stephens, David
 Wisconsin Brick Co.
 MANITOWOC—Boettcher Brick & Tile Co.
 Clay Product Co.
 Kaufman, Peter
 MENASHA—Hanke, Lewis
 MENOMONIE—Hopwood, John
 Menomonie Hydraulic Pressed Brick Co.
 Wisconsin Red Pressed Brick Co.
 MERRIMACK—Merrimack Brick Co.
 MILWAUKEE—Burnham Bros., 525 Howell av
 Chase Brick Co., 305 Lincoln av
 Davelaar, M., & Son, Ellen & Pryor av
 Kraatz, Chas. Brick Co., 181 16th
 Milwaukee Building Supply Co., 1002-1003
 Pabst bldg
 Milwaukee Concrete & Supply Co., 414 Mat-
 thews bldg
 Standard Brick Co., 496 Clement av
 MONROE—Freese, Fred.
 NEILLSVILLE—Schvengarth, Aug.
 NESHKORO—Nest, G. J.
 NEW LONDON—Pahl, August
 Zerrenner Bros.
 PLYMOUTH—Krause, Otto
 PORTAGE—Affeldt, Herman
 Sanborn Brick & Ice Co.
 PORT WASHINGTON—Guenther Bros.

RACINE—Baumann, Wm.
Haumerson, F. H. & Sons
Hilker Bros. Brick Mfg. Co.
SAWYER—Simon & Kessler
SCHLEISINGERVILLE—Behring, H. W.
Rosenheimer, Jno.
SHEBOYGAN—Sheboygan Brick & Tile Co.
Zimbal, A. & Son
Zurhelde, Fred. Brick Co.
STEVENS POINT—Langenberg, W. E.
Stevens Point Artificial Stone & Brick Co.
Stevens Point Brick Mfg. & Cons. Co.
TRAMWAY—Kirtland, Sarah J.
UNION GROVE—Nisen, Michael
VIOLA—Pahl, H.
WATERTOWN—Cordes, L. H. & Co.
Cordes, Vaughn & Co.
WAUTOMA—Wehsner & Bugh
WEST BEND—Pick Brick Co.
WEST DE PERE—Hoekers, John.
Roffers, John
Van Laanen, Arnold
WHITEWATER—Whitewater Pressed Brick &
WONEWOC—Truber, Benj. Mfg. Co.

WYOMING.

EVANSTON—Mills, Jas.
LARAMIE—Wyoming Pressed Brick Co.
SHERIDAN—Cutter & Gerrard
WHEATLAND—Goodrich, C. W.

Brick Mfrs. (Corduroy)

Columbus Clay Products Co., Columbus, Ohio

Brick Mfrs. (Cupola)

(See Cupola Linings & Blocks.)

Brick Mfrs. (Dutch Clinker)

(See Brick Mfrs., Clinker)

Brick Mfrs. (Enameled)

American Enameled Brick & Tile Co., 1 Madison av, New York
Beaver Clay Mfg. Co., Beaver Falls, Pa.
Blue Ridge Enameled Brick Co., Prudential bldg, Newark, N. J.
CARTER, BLACK & AYERS (Mfrs.)
Agents, 1 Madison av, New York. (See adv. index, end of book)
Chestnut Ridge White Brick Co., 121 W 42d, New York
Cleveland Hydraulic Press Brick Co., Schofield bldg, Cleveland, O.
Gladding, McBean & Co., San Francisco, Cal.
Hydraulic Press Brick Co., 705 Olive, St. Louis, Mo.
Los Angeles Pressed Brick & Terra Cotta Co., Los Angeles, Cal.
Peabody Enamel Brick, Tile & Fireproofing Co., 11 B'way, New York
Progress Press Brick & Machine Co., 3205 S King's Highway, St. Louis, Mo.
SAYRE & FISHER CO. (also Ornamental), 261 B'way, New York. Works, Sayreville, N. J. (See adv. front inside cover)
Stegmayer Enamel Brick Co. (Stegmayer Process), 1 Madison av, New York
Tiffany Enameled Brick Co., Main Office & Works, Mokense, Ill.
United States Enameled Brick Co., Bolivar, Pa.

Brick Mfrs. (Fire)

ALABAMA.

ASHBY—Ashby Brick Co.
Nelson Fire Brick Co.
BESSEMER—Bessemer Fire Brick Co.
BIRMINGHAM—Bessemer Fire Brick Co.
Birmingham Fire Brick Co.
Budwig & Myers Fire Brick Co.
North Birmingham Fire Brick & Proofing Co.

CALIFORNIA.

ALAMEDA—Clark, N. & Sons
LINCOLN—Gladding, McBean & Co.
LOS ANGELES—Los Angeles Pressed Brick Co.
Pacific Clay Mfg. Co., 235 S Los Angeles
St. Louis Firebrick & Clay Co., 2404 E 9th

SAN FRANCISCO—Carnegie Brick & Pottery Co., Safe Deposit bldg
Church, S. R., 604 Montgomery
Clark, N. & Sons, 17 Spear
Forbes Bros., 307 Sansome
Gladding, McBean & Co., Rialto bldg
Steiger Terra Cotta & Pottery Works, Mills bldg

COLORADO.

CANON CITY—Diamond Fire Brick Co.
COLORADO SPRINGS—Colorado Springs Pressed & Fire Brick Co.
DENVER—Denver Building Brick Co.
Denver Fire Clay Co., 1742 Champa
Denver Sewer Pipe & Clay Co. Continental bldg
Denver Terra Cotta Lumber Co., 1324 S. Tremont
Golden Pressed & Fire Brick Co., 431 15th
PUEBLO—Standard Fire Brick Co.

CONNECTICUT.

NEW BRITAIN—Central New England Brick Co.
NEW HAVEN—Howard Co., 250 Boulevard
Stow, S. J. (Stove), 703 State
NORWICH—Peck, McWilliams & Co.

DISTRICT OF COLUMBIA.

WASHINGTON—**NATIONAL FIRE**
Proofing Co., Colorado bldg. (See adv. index, end of book)
National Terra Cotta Works, 316 13th, N. W.

DELAWARE.

WILMINGTON—Delaware Terra Cotta Co., 12 W 18th

GEORGIA.

ATLANTA—Atlanta Terra Cotta Co., 6 N Forsyth
AUGUSTA—Georgia Vitriified Brick & Clay Co.
MACON—Stevens, H. Sons Co.

ILLINOIS.

ALEDO—Townsend, B. F.
ALEXIS—Townsend, Thomas
ALTON—Alton Paving, Building & Fire Brick Co.
CARBON CLIFF—Argillo Works
CHICAGO—Chicago Fire Brick Co., Chamber of Commerce
Chicago Sewer Pipe Co., 79 Dearborn
Chicago Retort & Fire Brick Co., 45th & Dee, Wm. E., 114 E Quincy Lasalle
Evans, E. T. & Son Co., 4437 State
Hillsdale Fire Brick & Clay Co., 188 Madison st.
Lindemann, Mrs. Annie, 846 Allport
McCarthy, W. H., Chamber of Com. bldg
NATIONAL FIRE PROOFING CO.
140 Dearborn. (See adv. index, end of book)

RUTLAND FIRE CLAY CO., 223 W 12th. (See adv. index, end of book)
Southern Fire Brick & Clay Co., Chamber of Commerce bldg
Williams, N. A. Co., Chamber of Commerce bldg
GRANITE CITY—Hanson & Mills
JOLIET—American Refractories Co.
LINCOLN—Lincoln Coal Co.
MONMOUTH—Monmouth Mining & Mfg. Co.
OTTAWA—Chicago Retort & Fire Brick Co.
ROCK ISLAND—Argillo Works
STREATOR—Streator Clay Mfg. Co.
UTICA—Utica Fire Brick Co.
Utica Fire Sand Co.

INDIANA.

EVANSVILLE—Uhl Pottery Co.
FORT WAYNE—Moellering's, Wm. Sons
HILLSDALE—Billings & Heber
Burns & Hancock
Hillsdale Fire Brick & Clay Co.
HUNTINGBURG—Huntingburg Dry Pressed
INDIANAPOLIS—Southern Fire Brick & Clay Co.
MONTEZUMA—Burns & Hancock Brick Co.

IOWA.

MASON CITY—Mason City Clay Works

KANSAS.

KANSAS CITY—Kansas City Furnace Co.
WICHITA—Wichita Sillex Brick Co.

KENTUCKY.

ASHLAND—Ashland Fire Brick Co.
FIREBRICK—Portsmouth-Harblson-Walker Co.
FIRECLAY—Grahn, K. B.
FULLERTON—Tygart Fire Brick Co.
LOUISVILLE—Louisville Fire Brick Works, Highland Park
OWENSBORO—Owensboro Brick & Sewer Pipe Co.

LOUISIANA.

NEW ORLEANS—Carolina Portland Cement Co., 318 Baronne
Tupper, Allen, 713 Union

MAINE.

PORTLAND—Chase, C. S. Co., 5 Commercial
Portland Pipe Co., 109 Middle Wharf

MARYLAND.

BALTIMORE—Baltimore Retort & Fire Brick Co., Hull & Nicholson
Baltimore Terra Cotta Works, Covington & Clement
Reese-Hammond Fire Brick Co., 206 Courtland
Vulcan Fire Brick Co., 218 E York
CUMBERLAND—Gardner Bros.
FROSTBURG—Savage Mountain Fire Brick Co.
MT. SAVAGE—Union Mining Co.
NORTH EAST—Green Hill Fire Brick Works
United Fire Brick Co.
SALISBURY—Salisbury Brick Co.

MASSACHUSETTS.

BOSTON—Eastern Clay Goods Co., 79 Milk
FISKE & COMPANY (Inc.), 161
Devonshire. (See adv. index, end of book)
RUTLAND FIRE CLAY CO., 141
Milk. (See adv. index & branch offices, end of book)
DIGHTON—Dighton Stove Lining Co.
TAUNTON—French & Winslow
Presbrey Stove Lining Co.
Taunton Stove Lining Co.
Union Stove Lining Co.
Williams Stove Lining Co.
WORCESTER—Powers, F. E.

MICHIGAN.

DETROIT—Ash Fire Brick Co., 14th av & M. C. R. R.
Holmes, F. B. & Co., Hammond bldg
Houghton, Henry, Hammond bldg
Little, C. H. Co., Perrin Bank bldg
IONIA—Ionia Pottery Co.
JACKSON—Michigan Sewer Pipe Co.

MINNESOTA.

NEW ULM—Aufderheide, Fred.
MINNEAPOLIS—Northwestern Fireproofing Works, Kasota bldg
Superior Mfg. Co., 209 Hennepin av

MISSOURI.

FULTON—Fulton Fire Brick Co.
KANSAS CITY—Brockett, C. A. Cement Co., 121 W 8th
Dickey, W. S. Clay Mfg. Co., N. Y. Life bldg
Missouri Lime & Cement Co., Postal Tel. bldg
MOBERLY—Moberly Brick, Tiling & Earthenware Co.
ST. LOUIS—Aetna Fire Clay Co., 3218 Hebert
Blackmer & Post Pipe Co., Wainwright bldg
Christy Fire Clay Co., Morgan Ford rd & Gravois av
Evans & Howard Fire Brick Co., 920 Market
Krummel & Buechner Fire Clay Co., 5900 Columbia av
Laclede Fire Brick Mfg. Co., Manchester & Sulphur avs
Missouri Fire Brick Co., 411 Olive
Mitchell Clay Mfg. Co., 5625 Manchester av
Parker-Russell Mining & Mfg. Co., 417 Pine
St. Louis Clay Burning Co., 308 N 6th
St. Louis Vitriified & Fire Brick Co., Wainwright bldg
Van Cleave, A. A., 2909 Watson rd
Weaver, Noah, Dale av nr Kraft

MONTANA.

ANACONDA—Anaconda Copper Mining Co.
Standard Fire Brick Co.

NEBRASKA.

BEATRICE—Beatrice Brick Works
OMAHA—Amer. Clay Mfg. Co.

NEW HAMPSHIRE.

ROCHESTER—Kelsel Fire Brick Co.

NEW JERSEY.

CAMDEN—Reeve, Augustus, 31 Market
CROSSWICKS—Braisline, John & Son Fire
Proofing Co.
JERSEY CITY—Gautier, J. H. & Co.
KEASBY—Didier-March Co.
MAURER—MAURER, HENRY & SON.
(All kinds for Steel, Iron, Copper & Glass
Works, Blast Furnaces, Rolling Mills,
etc.). (See adv. index, end of book)
NEWARK—Sayre, Jas. R., Jr., & Co.
PERTH AMBOY—Perth Amboy Fire Brick Co.
SAYREVILLE—**SAYRE & FISHER CO.**
(See adv. inside front cover)
SOUTH RIVER—National Pyro Granite Co.
TRENTON—Mercer Fire Brick Works, Calhoun
Superior Fire Lining Co.
Trenton Fire Brick Co.
Trenton Fire Clay & Porcelain Co., 3d &
Davies
Trenton, R. F. B. Works, Princeton av
WOODBIDGE—BERRY, JAMES E.
Ryan, Patrick L.
Valentine, E. W. & Bro.
Valentine, M. D. Bro. Co.
Valentine, R. N. & H. Co.

NEW MEXICO.

SOCORRO—Socorro Fire Clay Works

NEW YORK.

ALBANY—Newton Fire Brick Co., Rathbone,
on R. & S. R. R.
BROOKLYN—(See New York City, Borough of
Brooklyn)
BUFFALO—Buffalo Concrete Stone & Brick Co.,
ft Hudson
Diamond Fire Clay Co., 179 Ellicott
Lancaster Brick Co., Builders' Ex.
Hall & Sons, 69 Tonawanda
Lyth, John & Sons, 48 W Eagle
ELMIRA—Elmira Sewer Pipe & Fire Brick Co.
Farrington, E. Ward
HAVERSTRAW—Haverstraw Clay & Brick Co.

NEW YORK CITY.**Borough of Brooklyn.**

BROOKLYN—Brooklyn Brick & Sewer Pipe Co.,
1105 Metropolitan av
Brooklyn Fire Brick Works, 88 Van Dyke
Cooper, John, 111 Clay
Greenpoint Fire Brick Works, 408 Oakland

Boroughs of Manhattan & Bronx

NEW YORK—Darrow, Rufus & Son, ft W 47th
Didier-March Co., 15 Park Row
FISKE & COMPANY (Inc.), Flat
Iron bldg. (See adv. index end of book.)
FLEMING & CO. (Blue Welsh),
123 Liberty. (See adv. index, end of
book)
Franklyn & Ferguson (English Imported),
Cotton Exch. bldg.
Hammill & Gillespie (Importers), 240 Front
Harbison-Walker Refractories Co., 1133
Broadway
Harris Brick Co., 27 Great Jones
KREISCHER BRICK MFG. CO.,
119 E. 23d. (See adv index, end of book)
MAURER, HENRY & SON (all
kinds for Steel, Iron, Copper & Glass
Works, Blast Furnaces, Rolling Mills,
etc.), 420 E 23d. (See adv. inside
front cover)
NATIONAL FIRE PROOFING CO.,
Flatiron bldg. (See adv. index, end of
book)
National Pyrogranit Co., 17 Battery pl

Ostrander Fire Brick Co., 417 W 14th
Person & Co. (Mfrs.' Agents), 160 5th av
Perth Amboy Fire Brick Co., 42 B'way.
Works: Perth Amboy, N. J.
SAYRE & FISHER CO., 261 B'way.
(See adv. inside front cover)
THOMAS, E. H. (Mfrs. Agt.), 1123
Union Mining Co., 1 B'way B'way

Borough of Richmond.

KREISCHERVILLE—**KREISCHER**
Brick Mfg. Co. (See adv. index, end of
book)

(END OF NEW YORK CITY)

PEEKSKILL—Horton, S. D.
ROCHESTER—Rochester Brick & Tile Mfg. Co.
Rochester Sewer Pipe Co.
SYRACUSE—Pack, Geo. & Son
Syracuse Stone Ware Co. (Branch of Robin-
son Clay Product Co., Akron, O.), 401
Fulton
TROY—McLeod & Henry Co. (High Grade)
Ostrander Fire Brick Co., 309 2d
UTICA—White's Pottery, 232 Whitesboro

NORTH CAROLINA.

POMONA—Pomona Terra Cotta Co.

OHIO.

AKRON—Akron Fire Brick Co.
Robinson Clay Product Co.
ALLIANCE—Auld, Jno. & Sons
AXLINE—Fultonham Brick Co.
CANTON—Canton Hollow Brick CC.
Cleveland Brick Co.
Columbia Fire Brick Co.
CINCINNATI—Taylor's, Chas. Sons Co. (and
Fire Tile)
Tygart Fire Brick Co., 706 Burns
CLEVELAND—Dover Fire Brick Co., Cuyahoga
bldg
Federal Refractories Co., Superior bldg
Knauff & Esterbrook, Aetna & C & P R R
Lockhaven Fire Brick Co., Superior bldg
McLain & Son, Schofield Bldg.
Minor Fire Brick Co., Superior bldg
National Fire Brick Co., Superior bldg
NATIONAL FIRE-PROOFING CO.,
Cuyahoga bldg. (See adv. index, end of
book)
Olive Hill Fire Brick Co., Superior bldg
COAL GROVE—Petersburg Fire Brick & Tile
Co.
COLUMBUS—Columbus Sewer Pipe Works, 315
N High
Columbus Brick & Terra Cotta Co.
Ferris, Warren B., Col. Savings & Trust
Bldg

DELAWARE—Delaware Clay Mfg. Co.
EAST LIVERPOOL—National Furnace Brick Co.
EMPIRE—Minor Fire Brick Co.
Standard Fire Brick Co.
Stratton Fire Clay Co.
HAYDENVILLE—Haydenville Co.
IRONDALE—East Ohio Sewer Pipe Co.
Pritschau, Adolph
Standard Fire Brick Co.
IRONTON—Ashland-Ironton Fire Brick Co.
LOGAN—Logan Clay Product Co.
LOUISVILLE—Louisville Brick & Tile Co.
MALVERN—Malvern Clay Co.
MARIETTA—Cisler, Thos. & Co.
MASSILLON—Massillon Stone & Fire Brick Co.
MILLERSBURG—Millersburg Brick & Tile Co.
MINERAL CITY—American Fire Brick & Clay
Co.
Federal Clay Product Co.
Holden, C. E.
NELSONVILLE—Nelsonville Sewer Pipe Co.
NILES—Niles Fire Brick Co.
OAK HILL—Etna Fire Brick Co.
Davis Fire Brick Co.
Jones Fire Brick & Cement Co.
Oak Hill Fire Brick & Coal Co.
Ohio Fire Brick Co.
PORTSMOUTH—Louisville & Portsmouth Fire
Brick Co.
SCIOTOVILLE—Scioto Fire Brick Co.
STRASBURG—Dover Fire Brick Co.
National Fire Brick Co.
TORONTO—Toronto Fire Clay Co.
UHRICHVILLE—Buckeye Fire Clay Co.
WELLSVILLE—Champion Clay Co. (Tbe)
YOUNGSTOWN—Interstate Limestone Co. (Suc-
cessors to Bessemer Limestone Co.)
ZANESVILLE—Harris Brick Co., 28 N 2d
Townsend, T. B. Brick & Contracting Co.,
195 Market

OREGON.

PORTLAND—McCracken, J. Co.

PENNSYLVANIA.

ALLEGHENY—Knox, Strouss & Bragdon,
Preble av & Juniata
Patterson Coal & Supply Co., 1222 Grant av
BEECH CREEK—Penna Fire Brick Co.
BOLIVAR—Lincoln Fire Brick & Shape Co.
Reese-Hammond Fire Brick Co.
CATASAUQUA—Lehigh Fire Brick Works
CLEARFIELD—Clearfield Fire Brick Co.
Harbison & Walker Co.
CONNELLSVILLE—Soisson, Jos., Fire Brick Co.
DARLINGTON—Darlington Brick & Mining Co.
DUBOIS—DuBois Clay Mfg. Co.
DUNBAR—Dunbar Fire Brick Co.
FALLSTON—Fallston Fire Clay Co.
Standard Fire Clay Co.
HITE—Hite Fire Clay Co.
HYNDMAN—Savage Fire Brick Co., Ltd.
JOHNSTOWN—Haws, A. J. & Sons (Ltd.)
Mount Union Silica Brick Co.
Swank's, Hiram Sons
KEYSTONE JUNCTION—Savage Fire Brick Co.
KITTANNING—Kittanning Brick & Fire Clay
Co.
LATROBE—McFeeley Brick Co.
LAYTON—Humphries, E. A.
Stuart Firebrick Co.
LOCK HAVEN—Harbison-Walker Co.
Hayes Run Fire Brick Co.
Karthaus Fire Brick Co.
Lock Haven Fire Brick Co.
Penna Fire Brick Co.
Queen's Run Fire Brick Co.
McKEESPORT—Bowman Bros. Co., Inc.
MANORVILLE—Reese, Isaac & Sons
MANOWN—Manown Mfg. Co.
MILL HALL—Harbison-Walker Co.
Mills Hall Brick Works
MONACA—Welch Fire Brick Co.
MONONGAHELA—Monongahela Clay Mfg. Co.
MOUNT BRADDOCK—Eureka Fire Brick Co.
MOUNT UNION—Harbison-Walker Co.
Haws, W. H., Fire Brick Co.
Mt. Union Silica Brick Co.
NEW BRIGHTON—Brighton Fire Clay Co.
Smith, A. F. Co.
NEWCASTLE—Newcastle Portland Cement Co.
OAKMONT—Ligonier Silica Brick Co.
ORVIS—Hayes Run Fire Brick Co. (Difficult
Shapes a Specialty)
OSCEOLA MILLS—Osceola Silica & Fire Brick
Co.
PERKIOMENVILLE—Perkiomen Fire Brick Co.
Ketcham, O. W. (Mfrs.' Agt.), 24 S 7th,
Phila., Pa.
PHILADELPHIA—Borgner, Cyrus Co., 23d ab
Race
Boulter Mfg. Co., 1617 North
Hyzer & Lewellen, 952 N 9th
Kolb, G. & W., Wicacoe nr Jackson
McHenry, James, 2310 Washington av
MAURER, HENRY & SON (all
kinds for Steel, Iron, Copper & Glass
Works, Blast Furnaces, Rolling Mills,
etc.), Penna bldg. (See adv. inside front
cover)
NATIONAL FIRE-PROOFING CO.
Land Title bldg. (See adv. index, end of
book)
Phila. Clay Material Co., 4629 Girard av
Phila. Fire Brick Works, 2306 Vine
Remmey, R. Sons Co., 2637 E Cumberland
Sandy Ridge Fire Brick Co., 1420 Chestnut
Sweeny, Geo. & Co., 1334 Ridge av
Trenton Fire Brick Co., 1328 N 9th
PITTSBURG—American Sewer Pipe Co., Besse-
mer Bldg
Clarion Fire Brick Co., Park bldg
Dando, Geo. & Co., Park bldg
Dunbar Fire Brick Co., Arrott bldg
Federal Refractories Co., Frick bldg
Harbison-Walker Refractories Co., Farmers'
B'k bldg.
Kier Fire Brick Co., 341 6th av
Kittanning Brick & Fire Clay Co., Empire
bldg
Lincoln Fire Brick & Shape Co., Farmers'
Bank bldg
McFeeley Brick Co. (Frick Co.), Diamond
Bank bldg
McKallip & Co., Fulton bldg
McLain & Son
Manown Mfg. Co. (also Sleeves, Nozzles &
Runner, etc., for Open Hearth & Besse-
mer Steel Works, etc.), Hussey bldg
Massillon Stone & Fire Brick Co., 918 Du-
quesne way
Mount Union Silica Brick Co. (Silica), Park
bldg

NATIONAL FIRE PROOFING CO.,

Fulton bldg. (See adv. index, end of book)
Pittsburg Building Tunnel & Fire Brick Co.,
Conestoga bldg

Pittsburg Clay Product Co., Bessemer bldg
Reese, Isaac & Sons Co., Farmers' Bank
Savage Fire Brick Co., Park bldg
Speer Clay Mfg. Co., Farmers Bank bldg
Standard Fire Brick Co., Empire bldg
Stuart Fire Brick Co. (Silica), 235 Water
Union Mining Co., 345 4th av
Vanport Brick Co., Farmers' Bank bldg
Welch-Bright Co., Park bldg
Welch, Gloninger & Maxwell, 345 4th av

PITTSBURG—American Brick & Clay Co.

READING—Fox, E. S. & Co.

Reading Fire Brick Works, 4th c Canal

RENOVO—Renovo Fire Brick & Clay Works

ROBINSON—Garfield Fire Clay Co. (Also
Sleeves, Nozzles & Runner, etc.), for Open
Hearth & Bessemer Steel Works, etc.)

ROCHESTER—Barnes, S. Co.

Penna. Clay Co.

ROYERSFORD—Lewin Co.

Rogers, H. Co.

SALINA—Kier Fire Brick Co.

SANDY RIDGE—Sandy Ridge Fire Brick Co.

ST. MARYS—Elk Fire Brick Co.

SCRANTON—Interstate Conduit & Brick Co.

SHARON—Sharon Fire Brick Co.

SLIGO—Sligo Fire Brick Co.

SOUTH FORK—South Fork Fire Brick Co.

VANPORT—Dando, Geo. & Co.

Speer Clay Mfg. Co.

Vanport Brick Co.

WIGTON—Phillipsburg Fire Brick Wks.

WILLIAMS—Savage Fire Brick Co.

Welch, Gloninger & Maxwell

WILLIAMSPORT—Burns Firebrick Co.

WOODLAND—Harbison & Walker Co.

TENNESSEE.

CHATTANOOGA—Miller-Burns Fire Brick Co.

Montague & Co.

Southern Clay Mfg. Co.

TEXAS.

ATHENS—Athens Fire Brick Co.

EL PASO—Derbyshire Fuel Co.

GALVESTON—Parr, Wm. & Co. (English Im-
ported)

UTAH.

OGDEN—Ogden Sewer Pipe & Clay Co.

SALT LAKE—Ashton Fire Brick & Tile Co.

Salt Lake Fire Brick & Tile Co.

VERMONT.

RUTLAND—RUTLAND FIRE CLAY CO.

(See adv. index, end of book)

VIRGINIA.

CLAYVILLE—Powhattan Clay Mfg. Co.

RICHMOND—Baltimore Brick Co.

Powhattan Clay Mfg. Co., 14 N 7th

WASHINGTON.

LITTLE FALLS—Little Falls Fire Clay Co.

SEATTLE—Denny-Renton Clay & Coal Co.

SPOKANE—American Fire Brick Co.

Washington Brick, Lime & Mfg. Co.

WEST VIRGINIA.

FAIRMOUNT—Hammond Fire Brick Co.

NEW CUMBERLAND—Claymont Brick Works

West Virginia Fire Clay Mfg. Co.

Mack Mfg. Co.

Brick Mfrs. (Fire Flashed)

Acme Brick Co., Cayuga, Ind.

IRON CLAY BRICK CO., Ruggery
bldg, Columbus, O. (See adv. index, end of
book)

Cleveland Hydraulic Press Brick Co., Scho-
field bldg, Cleveland, Ohio

Columbus & Hocking Clay & Brick Co., Har-
rison bldg, Columbus, Ohio

Federal Clay Product Co., Mineral City, O.

KREISCHER BRICK MFG. CO., 119

E 23d, New York. Works: Kreischerville,

S. I., N. Y. (See adv. index, end of book)

Orchard Knob Clay Works Co., Ironton, O.

Progress Press Brick & Machine Co., 3205 S

King's Highway, St. Louis, Mo.

SAYRE & FISHER CO., 261 Broad-

way, N. Y. Works: Sayreville, N. J. (See
adv. front inside cover)
Shawnee Flash Brick Co., Brunson bldg, Co-
lumbus, Ohio

Brick Mfrs. (Front)

Firms indicated by a dagger (†) in front of
their name manufacture both Standard & Ro-
man sizes.

Manufacturers of ornamental shapes are indi-
cated thus (also ornamental) between their
name and address.

CONSULT INDEX OF CONTENTS FOR
OTHER BRICK & CLAY PRODUCTS.

ALABAMA.

BIRMINGHAM—Copeland Brick Co.

COALDALE—Southern Clay Mfg. Co.

MOBILE—Sagers Brick & Mfg. Co.

MONTGOMERY—Holt, B. L. & Co.

ARKANSAS.

FORT SMITH—Fort Smith Pressed Brick & Tile

HELENA—Straub Pressed Brick Co. Works

MALVERN—Clark Pressed Brick Co. (Red &
Ornamental)

CALIFORNIA.

LINCOLN—†Gladding, McBean & Co. (Buff &
Ornamental)

LOS ANGELES—California Ornamental Brick
Co., Mason Opera House

Corona Clay Mfg. Co. (also Ornamental),
Stimson blk

†Los Angeles Pressed Brick Co. (Buff, Red
& Ornamental), 105 S B'way

OAKLAND—Gladding, McBean & Co., Webster
& 14th

SAN FRANCISCO—Carnegie Brick & Pottery
Co., Safe Deposit bldg

Clark, N. & Sons, 17 Spear

†Gladding, McBean & Co. (Buff & Orna-
mental), Rialto bldg

Steiger Terra Cotta & Pottery Works, Mills
bldg

SAN JOSE—Steiger, Geo. A. (Buff only)

STOCKTON—San Joaquin Brick Co.

COLORADO.

BOULDER—Boulder Pressed Brick Co.

DENVER—Boulder Shale Brick Assn.

Colfax Pressed Brick Co., Exchange bldg

Denver Pressed Brick Co., Temple ct

Denver Sewer Pipe & Clay Co., Continental

Denver Terra Cotta Lumber Co. bldg

Fairview Brick Co., Continental bldg

†Golden Pressed & Fire Brick Co. (Buff, Red
& Ornamental), 435 15th

DURANGA—Durango Pressed Brick Co.

CONNECTICUT.

BERLIN—Donnelly Brick Co.

Merwin Brick Co. (The)

HARTFORD—Hartford Faience Co. (Enameled)

NEW HAVEN—Davis, W. E. & Co., 693 Orange

Howard Co., 250 Boulevard

Montwese Brick Co., 116 Church

Stiles, I. L. & Son Brick Co., 335 East

Stiles & Hart Brick Co.

NEW LONDON—Fisher's Island Brick Mfg. Co.

DELAWARE.

WILMINGTON—Oberly, Jas. B.

DISTRICT OF COLUMBIA.

WASHINGTON—Potomac Brick Co., 1413 G,

Virginia Brick Co., 930 F, N W

Walker, W. T. Brick Co., Corcoran bldg

Washington Brick & Terra Cotta Co., 13th

& G, N W

†Washington Hydraulic Press Brick Co.

(Buff, Red & Ornamental), Colorado bldg

West Bros. Brick Co., 734 15th, N W

GEORGIA.

ATLANTA—Chattahoochee Brick Co. (Red)

Krelgshaber, V. H. (Buff Mfrs.' Agt.), 6

N Forsyth

AUGUSTA—Georgia Vitrified Brick & Clay Co.

COLUMBUS—Berry, Geo. O. & A. F.

MACON—Stevens', H. Sons Co.

MILLEDGEVILLE—McMillan, J. W.

ROME—Rome Brick Co. (Buff & Red), 207 Up-
per

ILLINOIS.

ALTON—Acme Pressed Brick Co.

BARTONVILLE—Mauerman, Frank

Randall, Albert

BEARDSTOWN—Meyer, H. C.

BELLEVILLE—Belleville Brick Co. (Red,
Pressed & Ornamental)

Standard Brick Co.

BLOOMINGTON—Bloomington Pressed Brick Co.

CERRO GORDO—Bruaw, Henry & Son

CHICAGO—American Brick Co., 4500 S Robey

Amer. Pressed Brick Co., 84 La Salle

American Sand-Lime Brick Co., 225 Dear-
bach Brick Co., 1937 N Western av born

Burke, Alex. S., 40th av & W 19th

Chicago Brick Co., Chamber of Com. bldg

†Chicago Hydraulic Pressed Brick Co. (Buff,
Red & Ornamental), 138 Wash'n

Dee, W. E. Co., 114 E Quincy

Illinois Brick Co., Chamber of Com. bldg

Jenkins & Reynolds Co. (Mfrs.' Agts. Buff
& Red), Chamber of Com. bldg

Kemnitz & Schneider, 1258 Oakdale av

Kimbell, S. S., Brick Co., 138 Wash'n

Labahn Brick Co., 92 LaSalle

Moulding, Thos. C. (Mfrs. Agts.), Chamber
of Commerce bldg

Murphy & Lorimer Brick Co., 120 Randolph

National Brick Co., 84 LaSalle

Sexton, Jno. M. L., 39th & Leavitt

Union Pressed Brick Co., 138 Washington

COLLINSVILLE—Illinois Hydraulic Pressed
Brick Co.

DANVILLE—Western Brick Co. (Red Repressed,
Sand, Mould & Wire Cut)

DECATUR—Decatur Brick Co.

EDWARDSVILLE—Richards, B. H.

HAMPSHIRE—Backus & Sholes

LA SALLE—†La Salle Pressed Brick Co. (Buff,
Red & Ornamental)

LINCOLN—Lincoln Coal Co. (Standard Shape
Only, Sand Brick)

MOMENCE—Tiffany Enameled Brick Co. (Red
& Ornamental)

NEWBERN—McNeil Pressed Brick Co. (Plain,
Ornamental, Red, etc.)

PAWNEE—Farnum, L. C.

STREATOR—Barr Clay Co.

Streator Paving Brick Co.

TROY—Troy Pressed Brick Co.

INDIANA.

ANDERSON—Indiana Brick Co. (Sand Moulded
Face)

BRAZIL—Brazil Clay Co. (Buff Iron Spot, etc.)

Indiana Paving Brick & Block Plant

BROOK—Brook Terra Cotta, Tile & Brick Co.

CAYUGA—Acme Brick Co. (Red, Buff, Mottled,
Gray, Brown & Black, Flashed, etc.)

Cayuga Brick & Coal Co. (Buff & Red)

EVANSVILLE—Evansville Pressed Brick Co.

HILLSDALE—Hillsdale Fire Brick & Clay Co.

HUNTINGBURG—Huntingburg Dry Press
Brick Co.

INDIANAPOLIS—Marion Brick Works (Red)

KOKOMO—Leach, J. M. & Co.

LA FAYETTE—Star City Brick Co.

MARION—Marion Brick Works (Red)

MONTEZUMA—Marion Brick Works

NEW ALBANY—Goetz Pressed Brick Co.

TERRE HAUTE—Terre Haute Pressed Brick
Co

INDIAN TERRITORY.

ADA—Ada Pressed Brick & Tile Co.

ARDMORE—Ardmore Coal & Power Co.
(Pressed)

CHICKASHA—Chickasha Shale Brick Co.

MADILL—Madill Pressed Brick & Tile Co.

SAPULPA—Sapulpa Pressed Brick Co.

IOWA.

COUNCIL BLUFFS—Wickham, James & O. P.

DES MOINES—Capital City Brick & Pipe Co.,
Dale Brick Co. w s 12th

Des Moines Clay Mfg. Co.

Iowa Brick Mfg. Co.

GLADBROOK—Gethmann Bros. Brick Co.

Gladbrook Pressed Brick & Tile Co.

GRAND JUNCTION—Goodwin Tile & Brick
Co. (Buff, standard shapes only)

JEWELL—Jewell Brick & Tile Co.

LEHIGH—Corey Pressed Brick Co. (Buff, Red
Lehigh Brick & Tile Co. & Ornamental)

MASON CITY—American Brick & Tile Co.

Mason City Brick & Tile Co.

Mason City Clay Works

MONTICELLO—Dautremont, Frank
 MUSCATINE—Muscatine Pressed Brick Co.
 OELWEIN—Oelwein Pressed Brick Co.
 SERGEANT BLUFFS—Holman, C. J. & Bro.
 SIOUX CITY—Sioux City Brick & Tile Works
 TOLEDO—Tuna Valley Pressed Brick Co.
 VAN METER—Platt Pressed & Fire Brick Co.
 WEBSTER CITY—Webster City Brick & Tile Co.

KANSAS.

CHERRYVALE—Cherryvale Brick Co.
 Southwestern Brick Co.
 COFFEYVILLE—Coffeyville Brick & Tile Co.
 Coffeyville Shale Brick Co.
 COLUMBUS—Metzler, Phil. C.
 IOLA—Union Brick Co. (Repressed, etc.)
 KANSAS CITY—Dwyer Brick Co., 30th & State
 Line
 Kansas City Hydraulic Pressed Brick Co.,
 1st & Waverly
 TOPEKA—Capital City Vitrified Brick & Paving
 Co.
 VANCE—Gump, E. J. Pressed Brick Co.
 WICHITA—Wichita Sillex Brick Co.

KENTUCKY.

COVINGTON—Busse Brick Co.
 FULTON—Bransford & Bransford
 LEXINGTON—Lexington Brick Co.
 LONDON—London Mfg. Co. (Mottled only)
 LOUISVILLE—Hydraulic Brick Co. (Inc.), 2301
 12th
 HAYSVILLE—Sphar Pressed Brick Works
 MIDDLESBORO—Middlesboro Pressed Brick
 Co.
 NEWPORT—Newport Pressed Brick Co.
 OWENSBORO—Owensboro Sand-Lime Brick
 PADUCAH—Chamblin & Murray
 Katterjohn, F. W. & Son

LOUISIANA.

BATON ROUGE—Baton Rouge Brickyard Co.
 NEW ORLEANS—Louisiana Hydraulic Pressed
 Brick Co., 901 Willow
 Pelican Pressed Brick Co., 334 Carondelet
 SLIDELL—Salem Brick & Lumber Co.
 TANGIPAH—Newsom's, M. S. Sons

MAINE.

LEWISTON—Libby, Horace, 544 Main
 SAGO—Marston & Durgin
 WATERVILLE—Purinton, H. & Co.
 WESTBROOK—Hawkes Brick Works (Inc.)

MARYLAND.

BALTIMORE—Baltimore Brick Co. (Red), Mary-
 land Trust bldg
 Burns, Russell & Co., 15 W Saratoga
 Independent Brick Co., Philadelphia rd
 CAMBRIDGE—Leonard, J. C.
 CUMBERLAND—Cumberland Granite Brick Co.
 Queen City Brick & Tile Co.
 EASTON—White, J. H. & Son
 ST. MICHAELS—Hope, Clifton
 SALISBURY—Salisbury Brick Co.

MASSACHUSETTS.

BOSTON—FISKE & COMPANY (Inc.)
 (All Colors & Shapes), 161 Devonshire.
 (See adv. index, end of book)
 Phila. & Boston Face Brick Co. (Light &
 IPSWICH—Brown, J. A. Red), 165 Milk
 MEDFORD—Maxwell, J. S. & Co.
 NORTHAMPTON—Bailey, Wm. A.
 SPRINGFIELD—Curtis, D. J., 77 Everett

MICHIGAN.

BUCHANAN—Blodgett & Blodgett
 CLIO—Oliff, Thos.
 DETROIT—Clippert, Geo. H. & Bro., 1920
 Michigan av
 Holmes, F. B. & Co. (mfrs. agts.), Hammond
 Houghten, Henry, Hammond bldg
 Little, C. H. Co., Peninsular Bank bldg
 Michigan Ornamental Brick Co., Majestic
 bldg
 Michigan Pressed Brick Co., Lawton av &
 M C R R

GRAND RAPIDS—Eureka Brick Co.
 Grand Rapids Brick Association
 Valley City Brick Co., Fuller & E Bridge
 ONIA—Vander, Heyden, Fred. H.
 JACKSON—Jackson Press Brick Co.
 LAPEER—White, Robt. A.
 LUDINGTON—Sperry, G. F.
 OWOSSO—Friesseke, J. & H.
 PONTIAC—Osmun, W. H., Jr.
 SAGINAW—Saginaw Pressed Brick Co.
 ST. CLAIR—Sheldon, Chas.
 ZEELAND—Zeeland Brick Co.

MINNESOTA.

ADA—Matthews, W. H. & E. L.
 ALBERT LEA—Albert Lea Brick & Tile Co.
 ALEXANDRIA—McKay, J. A. (Buff)
 AUSTIN—Barr, E.
 CHASKA—Greiner & Corning (Buff)
 DRESEBACH—Sherwood & Johnson
 MINNEAPOLIS—Bower, J. S., 34th av & Mar-
 shall
 Martin Brick Co., 504 Hennepin av
 Menomonee Hydraulic Press Brick Co.
 Wisconsin Red Pressed Brick Co.
 NEW ULM—Aufderheide, F. W.
 ST. PAUL—Greiner & Corning (Buff), Ger-
 mania Life bldg
 Minnesota Ceramic Co., Kendrick blk
 St. Paul Brick Co., Drake & Butternut av
 Twin City Brick Co. (Buff, Red & Ornamen-
 tal), Manhattan bldg.
 SHAKOPEE—Schroeder, Herman
 SPRINGFIELD—Ochs, A. C.
 WARREN—Lundgren, August

MISSISSIPPI.

YAZOO CITY—Montgomery Land Co.

MISSOURI.

BRUNSWICK—Brunswick Brick & Tile Co.
 CAPE GIRARDEAU—Cape Girardeau Pressed
 Brick Co.
 CARUTHERSVILLE—Caruthersville Pressed
 Brick & Tile Co.
 CREIGHTON—Creighton Clay Co.
 HANNIBAL—Hannibal Press Brick Co.
 JOPLIN—Joplin Buff Brick Co.
 KANSAS CITY—Dickey, W. S. Clay Mfg. Co.
 (Buff & Red, standard shapes only), N. Y.
 Life bldg
 Flanagan Bros. Mfg. Co., 2d nr Lydia
 Gump, E. J. Pressed Brick Co., 821 Main
 †Kansas City Hydraulic Press Brick Co.
 (Buff, Red & Ornamental), Gumbel bldg
 Pittsburg Vitrified Paving & Building Brick
 Co. (Red & Buff), Postal Tel. bldg
 Stukenberg Pressed Brick Co.
 LEXINGTON—Lexington Triumph Press Brick
 Co.
 PERUQUE—Thomas Brick & Clay Co. (Buff)
 ST. CHARLES—St. Charles Brick Co.
 ST. JOSEPH—Friede & Bode
 St. Joseph Pressed Brick Co.
 ST. LOUIS—Brockschmitt Bros., 6533 Man-
 chester av
 College Hill Press Brick Works, 1400 Col-
 lege av

Hydraulic Press Brick Co., 705 Olive
 †Illinois Supply & Construction Co. (Mfrs.)
 Agts., all colors & shapes, 816 Olive
 †Ittner, Anthony Brick Co. (Red & Orna-
 mental), Odd Fellows' bldg
 †McEwing & Thomas (Buff, Red & Orna-
 mental), 202 N 9th
 McNeil Press Brick Co. (Plain, Ornamental,
 Red, Etc.), Chemical bldg
 Missouri Fire Brick Co., 411 Olive
 Parker-Russell Mlning & Mfg. Co., 417 Pine
 Progress Press Brick & Machine Co. (All
 Colors & Shapes), King's Highway
 St. Louis Press Brick Co., Cass av &
 Collins
 Sanders Press Brick Co., Macklind & Bis-
 choff avs
 Superior Press Brick Co., 3190 King's High-
 way
 Thomas Brick & Clay Co., 202 N 9th
 Tiffany Enameled Brick Co., Chemical bldg

MONTANA.

ANACONDA—Anaconda Copper Mining Co.
 BUTTE—Butte Sewer Pipe & Tile Co., 27 W

NEBRASKA.

ALLIANCE—Alliance Press Brick Co.
 BEATRICE—Beatrice Brick Works
 HASTINGS—Polenske Bros. & Co.
 Polenske, Schellak & Co.
 LINCOLN—Capital City Brick & Pipe Co.
 OMAHA—†Omaha Hydraulic Press Brick Co.
 (Buff, Gray, Red, Pompeian, etc.), 523 S
 Withnell Bros. & Smith Co. 16th

NEVADA.

RENO—Reno Pressed Brick Co.

NEW HAMPSHIRE.

DOVER—Gage, Elbridge G.
 GONIC—Boston Brick Co.
 New England Brick Co.
 Splers-Fish Brick Co.
 SUNCOOK—Sargent, Warren
 Simpson, Geo. N.

NEW JERSEY.

HACKENSACK—Gillies, J. W.
 KINKORA—Dobbins, Murrell
 LITTLE FERRY—Felter, I. & W.
 Mehrhof Brick Co.
 NEWARK—Blue Ridge Enameled Brick Co.
 Sayre, Jas. R., Jr., & Co., River st
 ROSENHAYN—†Rosenhayn Face Brick Co.
 SAYREVILLE—SAYRE & FISHER CO.
 (See adv. Front Inside Cover)
 SOUTH RIVER—Bissett, James
 National Pyrogranit Co.
 Pettit Co.
 Pettit & Cook Co.
 Scherrer & Candee
 South River Brick Co.
 Whitehead Bros. & Co.
 TRENTON—Applegate & Co., Pennington av
 Donahoe & Nolan, Kirkbride & Calhoun
 Fell & Roberts (Red & Ornamental), 501 Cal-
 houn
 Kafer, H. C. & Co. (Red), Princeton av
 Trenton Red Front Brick Works (Red)
 WINSLOW—†Eastern Hydraulic Pressed Brick
 Co. (Buff, Red & Ornamental)

NEW YORK.

ALBANY—Smith, Edw. J., Morton & Eagle
 ALFRED—Alfred Clay Co.
 BUFFALO—Berricks, Chas. Sons, 1151 Main
 Brush Bros. (Buff, Red & Ornamental).
 Buffalo Clay Mfg. Co., 41 Franklin
 Diamond Fire Clay Co., 179 Ellicott
 Dietschler's, Henry Sons, Weiss & Clinton
 Jewettville Pressed & Paving Brick Co. (Red
 & Ornamental), Builders' Ex. bldg
 Lancaster Brick & Tile Co., Builders' Exch.
 Lyth, Jno. & Sons, 48 W Eagle
 Ross, Jas. H., 141 Erie
 Schmidt, G. W., 699 Bailey av
 CANANDAIGUA—†New York Hydraulic Press
 Brick Co. (Buff, Red & Ornamental)
 CARTHAGE—Wrape & Peck
 CATSKILL—Katterskill Paving Brick Co.
 ITHACA—Ithaca Red Brick & Tile Co.
 JAMESTOWN—Jamestown Shale Paving Brick
 Co.
 KREISCHERVILLE—(See New York City, Bor-
 ough of Richmond)
 LA SALLE—La Salle Brick Works

NEW YORK CITY.

Boroughs of Manhattan & Bronx.

NEW YORK—CARTER, BLACK &
 Ayers (Mfrs. Agts.), 1 Madison av. (See
 adv. index, end of book)
 CHESTNUT RIDGE WHITE BRICK
 Co. (Eight Colors), 121 W 42d. (See adv.
 below)
 FISKE & COMPANY (Inc.) (All
 Colors & Shapes), Flat Iron bldg. (See
 adv. index end of book)
 Fredenburg & Lounsbury (Mfrs.' Agts.), 239
 4th av.
 Harbison-Walker Refractories Co., 1133
 Broadway
 Harris Brick Co., 27 Great Jones

CHESTNUT RIDGE WHITE BRICK CO. 121 W. 42nd ST., NEW YORK.
IMPERVIOUS FRONT BRICK. Buffs, Creams, Grays, Whites.

G. M. FISKE, President.

J. P. B. FISKE, Vice-President.

T. W. PEIRCE, Treasurer.

FISKE & COMPANY, INC. FACE BRICKS. ALL COLORS. FIRE BRICKS. ALL KINDS.

ESTABLISHED 1864.

CEMENTS LIME COMMON BRICK

ARCHITECTURAL TERRA COTTA, &c.

ENAMELED AND SALT GLAZED BRICK, ROOF TILES, FLUE LININGS.

We represent over Twenty of the best factories producing the above class of goods—
and are in position to give the very best service as to quality, prompt service, etc.

BOSTON OFFICE 161 Devonshire Street
NEW YORK OFFICE Flatiron Building

ESTABLISHED 1845

REORGANIZED 1902

Manufacturers of

FRONT BRICK

OF EVERY DESCRIPTION

PLAIN AND  
ORNAMENTAL 

THE KREISCHER BRICK MANUFACTURING CO.


Clay Retorts,
Fire Clay, Sands, &c.

FIRE BRICK

WORKS

ALL SIZES AND SHAPES

KREISCHERVILLE, STATEN ISLAND.

Telephone, 5360 Gramercy
5361

Office, 119 EAST 23d STREET, NEW YORK

CARTER, BLACK & AYERS,

No. 1 MADISON AVE., NEW YORK

Telephone 5277 Gramercy.

**ENAMELED BRICKS—FIRE-PROOFING
IMPERVIOUS FRONT BRICKS
ARCHITECTURAL TERRA COTTA. ROOFING TILES.**

The Ironclay Brick Company

COLUMBUS, OHIO

SOLE MANUFACTURER OF

THE IRONCLAY BRICK

is unique in character, color and composition. It is the product of a fine grade of fire clay, containing two non-magnetic elements of iron, and is made from the clay just as it comes from the mine.

UNEQUALLED IN COLOR.

No other flashed brick on the market is so warm in tint and so rich in color. Our different colors range from an "old ivory" to a "deep bronze."



A GREAT RECORD.

In the last eight years we have supplied the famous IRONCLAY brick for from ONE to ONE THOUSAND buildings in each of more than TWO HUNDRED CITIES and towns in the United States and Canada, in a territory reaching from Halifax, N. S., to Dallas, Texas, and from Aberdeen, South Dakota, to Jacksonville, Florida.

CAPACITY OF MANUFACTURING PLANT, FIFTEEN MILLION PER YEAR.

General Offices, The Ruggery, Columbus, Ohio

Hendricks'



Commercial Register..

Is consulted by more than 100,000 Buyers annually.

If you want to reach a Buyer advertise in this Book.

No Book more frequently consulted regarding the purchasing of materials, machinery or supplies.

Used by the Purchasing Department of every large concern in the United States.

Houghtaling & Wittpenn (Mfrs.' Agts.), 44 E 23d
KREISCHER BRICK MFG. CO.
 (Buff, Mottled & Ornamental, all kinds),
 119 E 23d. (See adv. index, end of book)
 McCandlish, R. N. & Co., 1123 B'way
 Ohio Mining & Mfg. Co. (Buff & Red), 96 Wall
 †Person & Co. (Mfrs.' Agents for all Colors
 & Shapes), 160 5th av
 Pfotenhauer & Nesbit (Mfrs.' Agents), 1133 B'way
 †Powhatan Clay Mfg. Co. (White, Silver
 Gray & Salt & Pepper Gray), 1123 B'way
SAYRE & FISHER CO. (Various
Colors, Plain & Ornamental), 261 B'way.
 (See adv. front inside cover)
THOMAS, E. H. (Mfrs' Agt.), (Buff
& Red), 1123 B'way

Borough of Queens.

LONG ISLAND CITY—Garden City Brick Co.
 (Buff & Red, standard size only), Garden City

Borough of Richmond.

KREISCHERVILLE—KREISCHER BRICK
Mfg. Co. (Buff, Mottled & Ornamental,
all kinds). (See adv. index, end of book)
(END OF NEW YORK CITY)
ROCHESTER—New York Press Brick Co. (Ter-
ra Cotta, Buff, Red & Ornamental), 27 St.
Rochester Composite Brick Co. Paul
Rochester German Brick & Tile Co.
SYRACUSE—New York Brick & Paving Co. (Buff only)
 Onondago Vitrified Brick Co., 611 S. A. & K. bldg
 Robinson Clay Product Co. (Fire & Press),
UTICA—Utica Brick Works 401 Fulton
WATERTOWN—Watertown Pressed Brick Co.
 (Red), 240 Main

NORTH CAROLINA.

ASHEVILLE—Asheville Brick & Tile Co.
 Hildebrand, D. S.
CHARLOTTE—Charlotte Brick Co.
ELIZABETH CITY—Elizabeth City Brick Works
POMONA—Pomona Terra Cotta Co.
WINSTON SALEM—Winston Brick & Tile Co.

OHIO.

AKRON—Akron Brick & Tile Co.
 Akron Vitrified Clay Mfg. Co.
 McCausland Bros., N. E. Tallmadge av
ATHENS—Athens Brick Co.
BATAVIA—Batavia Brick Co.
BRECON—Heidecker Brick Co.
CINCINNATI—Austin Pressed Brick & Tile Co.,
 3071 Western av
CINCINNATI WALL TILE CO.,
 206 E. 5th. (See adv. index, end of book)
 Moores-Coney Co., Union Trust bldg
 Oakland Press-Brick Co., Mitchell & Main
CLEVELAND—Barkwill Brick Co., ft of Herald
Cleveland Brick & Clay Co., Howard &
Cleveland Hydraulic Pressed Brick Co.
 (Red, Buff, etc.), Schofield bldg
 McLain & Son, Schofield bldg
 Ohio Clay Co. (Hollow & Face Brick), Garfield bldg
 Shepard, J. J. (All Colors & Shapes), 35 Stowe-Fuller Co., Superior bldg
COLLINWOOD—Collinwood Shale Brick Co.
COLUMBUS—Capitol City Brick Co. (Shale,
 Dry Press, Wire Cut & Hollow)
 Columbus Brick & Terra Cotta Co. (Fancy,
 Buff & Gray & Speckled), Marzetti bldg
 Columbus Clay Mfg. Co.
 Columbus Clay Products Co. (Red & Dark
 Corduroy)
 Columbus Contractors' Supply Co. (Shale),
 Ruggery bldg
 Columbus & Hocking Clay & Brick Co., Harrison bldg
 Ferris, Warren B., Col. Savings & Trust bldg
IRONCLAY BRICK CO., Ruggery
 bldg. (See adv. index, end of book)
 Shawnee Flash Brick Co. (Fire Flashed),
 Brunson bldg
 South Webster Brick Co., Savings & Trust bldg
 Sugar Grove Brick Co., 901 Harrison bldg
CONNEAUT—Harper-Norton Shale Brick Co.
COSHIOCTON—Cosh'n Brick Co. (Non-Spot etc.)

DAYTON—Dayton Press-Brick & Stone Co.
DELAWARE—Delaware Clay Mfg. Co.
FINDLAY—Findlay Hydraulic Pressed Brick
Co. (Red & Ornamental)
FREMONT—Fremont Press-Brick & Mfg. Co.
HAMILTON—Hamilton Brick Co.
HANOVER—Hanover Pressed Brick Co. (Red)
IRONTON—Orchard Knob Clay Works Co.
LOGAN—Logan Clay Product Co. ("Logan,"
 Glazed Vitrified)
 McARTHUR—McArthur Brick Co. (Red, Buff,
 Brown, Gray, etc)
MAGODORE—Colonial Pressed Brick Co.
MARIETTA—Sisler, Thos. & Co.
MARION—Milbolland Pressed Brick Co.
MASSILLON—Everhard Co.
 Massillon Brick Co.
MIDDLETOWN—Smith, Wm. & Co. (Buff only)
MINERAL CITY—American Fire Brick & Clay
 Co. (Buff, Red & Gray)
 Cantou Sparta Brick Co. (All Colors)
 Federal Clay Product Co. ("Sparta" Imper-
 vious Buff, Mottled, Flashed, Plain or
 Holden, C. E.
 Markley, G. J.
NEW LEXINGTON—New Lexington Press
 Brick Co.
PORTSMOUTH—Portsmouth Pressed Brick Co.
ROSEVILLE—Roseville Brick & Terra Cotta
SHAWNEE—Iron Clay Brick Co.
 Ohio Mining & Mfg. Co. (Buff & Red)
STEBENVILLE—Nicholson, E.
STRASBURG—Columbia Fire Brick Co. (Buff)
 National Fire Brick Co.
TORONTO—Toronto Fire Clay Co. (Buff, Vitrified)
UHRICHVILLE—Buckeye Fire Clay Co.
WARREN—Warren Brick & Tile Co.
 Western Reserve Brick & Tile Co.
WELLSVILLE—Vulcan Clay Co.
YOUNGSTOWN—Interstate Limestone Co.
ZANESVILLE—Harris Brick Co. (Red, Stand-
 ard Shapes Only)
 †Oakland Press Brick Co. (Buff, Red &
 Ornamental), Market & 3d
 Ohio Press-Brick Co.
 Townsend, T. B., Brick & Contracting Co.
 (Buff, Red, Standard Shapes Only), 195 Market

OKLAHOMA TERRITORY.

CHANDLER—Chandler Press-Brick Co.
GEARY—Geary Press-Brick Co.
HOBART—Wilke Press-Brick Co.
MANGUM—Mangum Press-Brick Co.
OKLAHOMA—United States Press-Brick & Tile
 Co.

OREGON.

NEWBERG—Newberg Pressed Brick & Terra
 Cotta Co.

PENNSYLVANIA.

ALLEGHENY—Huckestein, John & Co., 37
 Fairmount
 Lovatt, C. B. Co., 16 N Diamond, E A
 Miller Brick Co., Charles nr Wilson av
ALLENTOWN—Mattern, D. W., 10th & Tilgh-
 man
ALTOONA—Altoona Pressed Brick Co.
AUBURN—Auburn Shale Brick Co. (Red)
BOLIVAR—Lincoln Fire Brick & Shape Co.
 Reese-Hammond Fire Brick Co.
BOSTON—Harper, C. M. Co., Co.
BRADFORD—†Alumina Shale Brick Co. (Buff,
 Red & Ornamental)
 Bradford Pressed Brick Co. (Red & Buff)
 Broughton, P. B. (Red, Standard & Orna-
 mental)
CHESTER—Fields Brick Co.
 Law, M. W.
CLEARFIELD—Clearfield Clay Working Co.
COLUMBIA—Columbia Brick Co.
CONNELLSVILLE—Soisson, Jos. Fire Brick Co.
DARLINGTON—Darlington Brick & Mining Co.
 (Buff & Ornamental)
DOWNINGTOWN—Florey, James, Mrs.
DUBOIS—DuBois & Butler Brick Co.
DUNBAR—Dunbar Fire Brick Co. (Buff, etc.)
 Pope Cement & Brick Co.
ERIE—Dudenhofer, Frank, 132 W 24th
FALLSTON—†Fallston Fire Clay Co. (Buff &
 Ornamental)
HARRISBURG—Bjgler, S. L. & Co.
HOLLIDAYSBURG—Hart Brick Works
JOHNSTOWN—Basic Brick Co.
 Johnstown Pressed Brick Co.
 Kelley, W. P. Brick Co.
 Swank's, Hiram Sons
KITTANNING—Kittanning Brick & Fire Clay
 Co. (Buff, etc.)

KUNKLETOWN—CHESTNUT RIDGE
 White Brick Co. (Eight Colors) (See adv.
 on preceding page)
LANSDALE—Scholl, S. L. & Sons
LAYTON—Bowman Bros.
 Stuart Fire Brick Co.
LEHIGHTON—Graver, H. A.
LEWIS RUN—Alumina Shale Brick Co.
 Bradford Pressed Brick Co.
 Tuna Valley Pressed Brick Co.
LOCK HAVEN—Lock Haven Fire Brick Co.
MIDDLETOWN—Middletown Shale Brick Co.
MILL HALL—Mill Hall Brick Works (Red)
MONACA—†Welch Fire Brick Co.
MONESSEN—Monessen Brick Tile & Terra
 Cotta Co.
MONONGAHELA—Monongahela Clay Mfg. Co.
MOUNT HOLLY SPRINGS—Mt. Holly Brick &
 Clay Co.
MOUNT UNION—Mt. Union Silica Brick Co.
NAZARETH—Nonpareil Brick & Clay Co.
NEW BRIGHTON—Ingram & Co.
 Smith, A. F. & Co.
NEW CASTLE—Volant Clay Mfg. Co.
NEWTOWN—Worstell Bros. & Co.
OSCEOLA—Osceola Silica & Fire Brick Co.
OXFORD—Slack, Branson
PATTON—Pattou Clay Mfg. Co.
PHILADELPHIA—†Atlantic Brick Mfg. Co.
 (Buff), Betz bldg
 Clay Product & Supply Co., R E Trust bldg
 Conway, Wm., 58th, c Walnut
 Dohbins, Murrell, 1511 Sansom
 †Eastern Hydraulic Press Brick Co. (Buff,
 Red & Ornamental), Real Est. Trust bldg
 Equitable Brick Mfg. Co., 4101 Chestnut
 Hamburg Vitrified Brick Co., Land Title
 bldg
 †Jarden Brick Co. (Red & Ornamental), Land
 Title bldg
 Ketcham, O. W. ("Iron Clay," Mfrs' Agt.),
 24 S 7th
 McAvoy's, Thos. B., Sons, N Town la nr
 Ktn av
 McAvoy & Morris, S., 31st & Dickinson
 McAvoy Vitrified Brick Co., German Amer.
 Murtha & Earley, N 16th & Butler bldg
 Peerless Brick Co., York rd & Luzerne
 Phila. & Boston Face Brick Co., Builders' Ex
PINE GROVE—Pine Grove Vitrified Brick Co.
PINE GROVE FURNACE—†Fuller Brick &
 Slate Co. (Buff & Red)
PITTSBURG—Booth & Flinn, 1942 Forbes
 Boyd Hill Brick Co., Vickroy c Magee
 Central Brick Co., Diamond Bank bldg
 Darlington Brick & Mining Co., 6366 Franks-
 town av
 Dunbar Fire Brick Co., Arrott bldg
 Gloninger & Co., 345 4th av
 Harbison-Walker Refractories Co., Farmers'
 Bank bldg
 Kittanning Brick & Fire Clay Co. (Buff,
 Gray & Mottled, Standard & Roman
 Shapes), Emplre bldg
 Lanz, M., & Sons, 34th & Jane
 Lincoln Fire Brick & Shape Co., Farmers'
 Bank bldg
 Miller-Hummel Clay Products Co., German
 McLain & Son Amer. Bank bldg
 Pittsburgh & Buffalo Co.
 Sankey Bros., 2112 Carson
 Vanport Brick Co., Farmers' Bank bldg.
 †Welch, Gloninger & Maxwell, 345 4th av
 Westmoreland Brick Co. (Buff), 2d Nat'l
 B'k bldg.
RALSTON—†Ralston Brick Co. (Buff & Red)
READING—Katterskill Paving Brick Co.
 Montello Brick Works
 Moyer & Co., 725 Penn
 Reading Shale Brick Co.
RENOVO—Renovo Fire Brick & Clay Works
RIDGWAY—Ridgway Brick Co. (Plain, Orna-
 mental, Buff, Gray, Mottled, Red, etc.)
ROYERSFORD—Keeley, Allen T.
SHAMOKIN—Union Brick Co. (Buff & Red)
SHAWMUT—Shawmut Brick Co.
SLIGO—Sligo Fire Brick Co.
TRAINER—Keystone Pressed Brick Co.
TYRONE—Altoona Pressed Brick Co.
UNIONTOWN—Williams, J. V., & Co.
VANPORT—Gloninger & Co.
 Speer-Clay Mfg. Co.
 Vanport Brick Co.
WEST CHESTER—Guss, H. R.
YORK—Kissinger's, Beuj. Sons (Red Pressed)
 York Shale Press Brick Co.
YOUNGVILLE—Standard Shale Brick Co.

RHODE ISLAND.

PROVIDENCE—*New England Steam Brick
 Co. (Red), Banigan bldg

SOUTH CAROLINA.

CHARLESTON—Southern Hydraulic Brick Co.
 ROCK HILL—Ashe, W. N., Jr.
 SUMMERVILLE—Summerville Brick Works
 SUMTER—Sumter Brick Works

SOUTH DAKOTA.

ABERDEEN—Aberdeen Brick Co.
 SIOUX FALLS—Sioux Falls Pressed Brick Co.

TENNESSEE.

CHATTANOOGA — Chattanooga Press Brick Works
 Chattanooga River Brick Co.
 Southern Clay Mfg. Co.
 DYERSVILLE—Nichols, J. M.
 KNOXVILLE—Knoxville Brick Co.
 MEMPHIS—Memphis Graute Brick Co.
 NASHVILLE—Bush, W. G. & Co., 238 N College
 Fulcher Brick Co., 301 Church
 RIPLEY—Ripley Brick Co.

TEXAS.

AMARILLO—Amarillo Artificial Stone & Brick Co.
 ATHENS—Coleman, Chas. H.
 AUSTIN—Austin Brick Co.
 BELTON—Bell County Brick Co.
 CALAVERAS—Mackey Brick & Tile Co.
 DALLAS—Atlas Press Brick Works, 291 Maine
 Harry, J. M. Brick Co., N Texas bldg
 DENTON—Denton Pressed Brick Co.
 EL PASO—El Paso Brick Co.
 FERRIS—Atlas Pressed Brick Works
 Lone Star Pressed Brick Co.
 GAINESVILLE—Gainesville Brick Co.
 HOUSTON—Butler Brick Co.
 Houston White Brick Co.
 LONGVIEW—Longview Pressed Brick Co.
 MINERAL WELLS — Mineral Wells Pressed Brick Co.
 NEW BOSTON—Newton-Boston Pressed Brick Co.
 PALMER—Palmer Press Brick Works
 SAN ANTONIO—Pan-American Pressed Brick Co.
 SHERMAN—Saul & Kreuger
 WACO—Waco Pressed Brick & Tile Co.
 WINNSBORO—Winnsboro Pressed Brick Co.

UTAH.

OGDEN—Ogden Pressed Brick & Tile Co.
 PROVO—Provo Pressed Brick Co.
 SALT LAKE CITY—Salt Lake Pressed Brick Co.

VIRGINIA.

ALEXANDRIA—Alexandria Brick Co.
 CLAYVILLE—*Powhatan Clay Mfg. Co.
 (White, Silver Gray, Salt & Pepper Gray)
 DANVILLE—Fitzgerald, N. A. & T. J.
 LEXINGTON—*Champe, John A.
 NORFOLK—Mayo, W. R. & Sons
 RICHMOND—*Powhatan Clay Mfg. Co. (White, Silver Gray & Salt & Pepper Gray)
 ROANOKE—Roanoke Brick Co.
 ROSSLYN—Rosslyn Brick Co.

WASHINGTON.

LITTLE FALLS—*Little Falls Fire Clay Co.
 (Buff, Red & Ornamental)
 SEATTLE — Denny-Renton Clay & Coal Co.
 (Plain & Ornamental)
 Harper Brick & Tile Co.
 Pontiac Brick & Tile Co.
 SPOKANE—Spokane Brick Co.
 Washington Brick, Lime & Mfg. Co., 1st & Stevens
 WALLA WALLA—Walla Walla Brick & Tile Co.

WEST VIRGINIA.

BLUEFIELD—Silica Brick & Sand Co.
 CLARKSBURG—Clarksburg Brick Works
 ELKINS—Elkins Brick Co.
 HUNTINGTON—Huntington Red Brick Co.
 HURRICANE—McCallister, W. H.
 NEW CUMBERLAND—Mack Mfg. Co. (Vitrified)
 PARKERSBURG — Oakland Press Brick Co.
 (Buff, Red & Ornamental)
 Parkersburg Brick Works
 PIEDMONT—Piedmont Brick & Tile Co.
 WHEELING—Suburban Brick Co.

WISCONSIN.

CHIPPEWA FALLS — Chippewa Falls Brick Mfg. Co.
 GREEN BAY—Green Bay Brick Co.
 JEFFERSON—Jefferson Brick & Tile Co.
 MADISON—Stephens, David (Cream)
 Wisconsin Brick Co.
 MENOMONIE—Menomonie Hydraulic Pressed Brick Co. (Buff)
 Wisconsin Red Pressed Brick Co.
 MILWAUKEE—Kraatz, Chas., 181 16th
 Standard Brick Co., 496 Clement av
 RACINE—Hilker Bros. Brick Mfg. Co.
 SHEBOYGAN—Sheboygan Brick & Tile Co.
 STEPHENS POINT—Langenberg Brick Mfg. Co.
 WHITEWATER—Whitewater Tile & Pressed Brick Mfg. Co.

***Brick Mfrs. (Furnace Arch & Roof)**

MAURER, HENRY & SON, 420 E. 23d,
 N. Y.; Penna bldg, Phila., Pa. Works,
 Maurer, N. J. (See adv. front inside cover)

Brick Mfrs. (Glazed)

American Enameled Brick & Tile Co., 1 Madison av, New York
 Canton Sparta Brick Co., Mineral City, O.
 Cleveland Hydraulic Press Brick Co., Schofield bldg, Cleveland, O.
 Logan Clay Product Co. (Vitrified, Encaustic & Rock Faced), Logan, O.
 Markley, Geo. J., Mineral City, O.

Brick Mfrs. (Granite Pressed)

Cleveland Hydraulic Press Brick Co., Schofield bldg, Cleveland, O.
 Granite Pressed Brick Co., Woonsocket, R. I.

Brick Mfrs. (Hollow)

Akron Brick & Tile Co. (Shale), Akron, O.
 American Brick & Tile Co., Mason City, Ia.
 Braislen Fireproofing Co., Crosswicks, N. J.
 Binghamton Litholite Co., Binghamton, N. Y.
 Brazil Clay Co., Brazil, Ind.
 Canton Tile Hollow Brick Co., New Bethlehem, Pa.
 Collinwood Shale Brick Co., Collinwood, O.
 Columbus Clay Mfg. Co., Columbus, O.
 Curtis, D. J. & Son, Hartford, Conn.
 Denver Sewer Pipe & Clay Co., Denver, Col.
 Denver Terra Cotta Lumber Co., Denver, Col.
 Eggers Brick Co., Cleveland, O.
 Gladding, McBean & Co., Rialto bldg., San Francisco, Cal. Works, Lincoln, Cal.
 Greiner & Corning, Germania Life bldg, St. Paul & Chaska, Minn.
 Hanover Brick Co., Morristown & Whippany, Haydenville Co., Haydenville, O.
 Interstate Limestone Co. (Successors to Bessemer Limestone Co., Youngstown, O.
 Kansas City Hydraulic Press Brick Co. (Dealers), Kansas City, Mo.
 Klein, C. H. Brick & Tile Co., Chaska, Minn.
 McCutcheon, C. H., Lancaster, N. Y., & Builders' Ex, Buffalo, N. Y.
 Mason City Brick & Tile Co., Mason City, Ia.
 Mason City Clay Works, Mason City, Ia.
 MAURER, HENRY & SON, 420 E 23d,
 N. Y.; Penna bldg, Phila., Pa. Works,
 Maurer, N. J. (See adv. front inside cover)
 Merwin, C. P., Brick Co., Berlin, Conn.
 Millersburg Brick & Tile Co., Millersburg, O.
 NATIONAL FIRE-PROOFING CO.,
 Fulton bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)
 Ochs, A. C., Springfield, Minn.
 Onondago Vitrified Brick Co., Syracuse, N. Y.
 Parker-Russell Mining & Mfg. Co., 417 Pine, St. Louis, Mo.
 Penna. Fireproofing Co., St. Marys, Pa.
 Pittsburg & Buffalo Co., Frick bldg., Pittsburg, Pa.
 Rochester Brick & Tile Mfg. Co., Powers blk., Rochester, N. Y.
 SAYRE & FISHER CO., 261 B'way,
 N. Y., & Sayreville, N. J. (See adv. front inside cover)
 Sioux City Brick & Tile Works, & Riverside Brick Works, Sioux City, Ia.
 Troy Fireproofing Co., Troy, N. Y.
 Whiteacre Fire Proofing Co., Waynesburg, O.

Brick Mfrs. (Magnesia)

Federal Refractories Co., Cleveland, O.

Brick Mfrs. (Magnesite)

Harbison-Walker Refractories Co., Farmers' Bank bldg, Pittsburg, Pa., & 1133 B'way, N. Y. City

Brick Mfrs. (Mottled)

(See Brick Mfrs., Pompeian.)

Brick Mfrs. (Pompeian)

Firms indicated by a (†) in front of their name manufacture both standard and Roman sizes.

Alumina Shale Brick Co., Bradford, Pa.
 American Fire Brick & Clay Co. (Mottled & Ornamental), Mineral City, O.
 Atlantic Brick Mfg. Co. (Standard & Roman size), Betz bldg, Phila., Pa.
 Canton Sparta Brick Co., Mineral City, O.
 Chicago Hydraulic Press Brick Co. (Mottled & Ornamental), 138 Washington, Chicago, Ill.
 Cleveland Hydraulic Press Brick Co., Schofield bldg, Cleveland, O.
 Croton Limestone & Brick Co. (Mottled & Ornamental), New Castle, Pa.
 Dickey, W. S., Clay Mfg. Co. (Standard Only), N. Y. Life bldg, Kansas City, Mo.
 Dunbar Fire Brick Co., Arrott bldg, Pittsburg, Pa., & Dunbar, Pa.
 †Eastern Hydraulic Press Brick Co. (Mottled & Ornamental), Real Estate Trust bldg., Phila., Pa.; Works, Winslow Junction, N. J.
 Everhard Co. (Mottled, etc.), Massillon, O.
 †Fallston Fire Clay Co. (Mottled & Ornamental), office and works, Fallston, Pa.
 Federal Clay Product Co. (The), Mineral City, Ohio
FISKE & COMPANY (Inc.) 161
 Devonshire, Boston, Mass., & Flat Iron bldg, New York. (See adv. index, end of book)
 Fulcher Brick Co., Nashville, Tenn.
 †Fuller Brick & Slate Co. (Ltd.); office & works, Pine Grove Furnace, Pa.
 †Gladding, McBean & Co. (Mottled & Ornamental), Rialto bldg., San Francisco, Cal. Works, Lincoln, Cal.
 Gloninger & Co., 345 4th av, Pittsburg, Pa., & Vanport, Pa.
 †Golden Pressed & Firebrick Co. (Mottled & Ornamental), 431 15th, Denver, Col.
 Harbison-Walker Refractories Co., Farmers' Bank bldg, Pittsburg, Pa., 1133 B'way, N. Y. City
 Holden, C. E., Mineral City, Ohio
 †Hydraulic Press Brick Co., 705 Olive, St. Louis, Mo.
IRONCLAY BRICK CO., Ruggery
 bldg, Columbus, O. (See adv. index, end of book)
 †Jarden Brick Co. (Mottled & Ornamental), Land Title bldg, Phila., Pa.
 Kittanning Brick & Fire Clay Co. (Buff, Gray & Mottled), Empire bldg., Pittsburg, Pa.
KREISCHER BRICK MFG. CO., 119
 E 23d, New York. Works: Kreischerville, S. I., N. Y. (See adv. index, end of book)
 La Salle Pressed Brick Co., La Salle, Ill.
 †McEwing & Thomas (Mottled & Ornamental), 202 N. 9th, St. Louis, Mo.
 Menomouie Hydraulic Press Brick Co. (All Shapes & Colors), Minneapolis, Minn.
 †New York Hydraulic Press Brick Co. (Mottled & Ornamental), 27 St. Paul, Rochester, N. Y. Works, Canandaigua, N. Y.
 Omaha Hydraulic Press Brick Co., 523 S 16th, Omaha, Neb.
 Powhatan Clay Mfg. Co., Richmond, Va.; 1123 B'way, New York. Works: Clayville, Va.
 †Progress Press Brick & Machine Co. (also Ornamental), Kings Highway & Oak Hill, St. Louis, Mo.
 Ralston Brick Co. (Standard Shapes Only), Ralston, Pa.
 †Ridgway Brick Co., office & works, Ridgway, Pa.
 Roseville Brick & Terra Cotta Co., Roseville, O.
 †SAYRE & FISHER CO. (Mottled & Ornamental), 261 Broadway, N. Y. Works, Sayreville, N. J. (See adv. front inside cover)
 Sheppard, J. J. (all colors), 35 River, Cleveland, O.
 Union Pressed Brick Co., 138 Washington, Chicago, Ill.
 Vanport Brick Co. (Standard Shapes Only), Farmers' Bank bldg., Pittsburg, Pa.
 †Washington Hydraulic Press Brick Co. (Mottled & Ornamental), Colorado bldg, Washington, D. C.

Brick Mfrs. (Rock Faced)

(See Steel Brick & Rock Face Siding)

Brick Mfrs. (Sand Lime)

Aberdeen Sand-Lime Brick Co., Aberdeen, Miss.
 Daleville Sand-Lime Brick Co., Daleville, Ind.
 Diamond Brick Co., Muncie, Ind.
 Diamond Sand-Lime Brick Co., San Francisco, Cal.
 Fort Wayne Pressed Brick Co., Ft. Wayne, Ind.
 Genesee Sand-Lime Brick Co., Genesee, Pa.
 Granite Brick Co., Columbus, O.
 Kings Crown Plaster Co., Cedar Rapids, Ia.
 Laketon Sand-Lime Brick Co., North Manchester, Ind.

Menominee Brick Co., Menominee, Mich.
 Millholland Pressed Brick Co., Marion, O.
 Newburgh Brick Co., Newburgh, N. Y.
 Otis Sand-Lime Brick Co., South Amboy, N. J.
 Pensacola Brick Co., Pensacola, Fla.
 Schwarz System Brick Co., 24 State, New York
 Sioux Falls Pressed Brick Co., Sioux Falls, S. D.
 Sugar Grove Brick Co., Columbus, O.
 Tampa Sand-Lime Brick Co., Tampa, Fla.
 Western Composite Brick Co., Kansas City, Mo.
 Wichita Silix Brick Co., Wichita, Kan.

Brick Mfrs. (Silica)

American Refractories Co., Joliet, Ill.
 Carbon Brick Co., Farmers Bank bldg, Pittsburg, Pa.
 Diamond Fire Brick Co., Canon City, Colo.
 Federal Refractories Co., Cleveland, O.
 Harbison-Walker Refractories Co., Farmers' Bank bldg, Pittsburg, Pa., & 1133 B'way, N. Y. City

Haws, A. J. & Sons, Johnstown, Pa.
 Kittanning Brick & Fire Clay Co., Empire bldg
 Ligonier Silica Brick Co., Oakmont, Pa.
 Lincoln Fire Brick & Shape Co., Bolivar, Pa., & Farmers Bank bldg, Pittsburg, Pa.
 McFeely Brick Co., Diamond Bank bldg, Pittsburg, Pa.

Mt. Union Silica Brick Co., Park bldg., Pittsburg, Pa.; Works, Mt. Union, Pa.
 Osceola Silica & Fire Brick Co. ("Coffey"), Osceola Mills, Pa.

Perth Amboy Fire Brick Co., 42 B'way, New York, & Perth Amboy, N. J.
 Reese, Isaac & Sons Co. (Fire Brick), Farmers Bank bldg, Pittsburg, Pa.

Savage Fire Brick Co., Park bldg., Pittsburg, Pa.; Works, Keystone Junction, Pa., & Williams, Pa.

Sharon Fire Brick Co., Sharon, Pa.; Works, Wellsville, O.

Soisson, Jos., Fire Brick Co., Connellsville, Pa.
 Stuart Fire Brick Co., 235 Water, Pittsburg, Pa.

White, S. A., Lewis blk., Pittsburg, Pa.

Brick Mfrs. (Talc Fire)

Cohutta Talc Co., Spring Place, Ga.

Brick Mfrs. (Vitrified Paving)

Firms indicated by * also manufacture Paving Blocks.

ALABAMA.

BESSEMER—Bessemer Fire Brick Co.
 BIRMINGHAM—Copeland Brick Co.
 Graves Shale Brick Co.
 COALDALE—Southern Clay Mfg. Co.

ARKANSAS.

FORT SMITH—Ft. Smith Paving Brick & Fire Clay Co.

CALIFORNIA.

LOS ANGELES—California Concrete Building Block Co., Douglas bldg
 Pacific Sandstone Brick Co., 203 S B'way
 So. California Brick Co., H. W. Hellman bldg
 SAN FRANCISCO—Carnegie Brick & Pottery Co., Safe Deposit bldg
 Clark, N. & Sons, 17 Spear

COLORADO.

DENVER—Boulder Shale Brick Co., Jacobson bldg
 Denver Sewer Pipe & Clay Co., Continental bldg

Denver Terra Cotta Lumber Co., 1324 S. Tremont
 Fairview Brick Co., Continental bldg
 Golden Pressed & Fire Brick Co., 435 15th
 Silicated Brick Co., Bank blk
 PUEBLO—Colorado Brick & Tile Co.

DISTRICT OF COLUMBIA.

WASHINGTON—Anacostia Brick Co., 702 11th, N W
 Jackson-Phillips Brick Co., 615 14th, N W
 Potomac Brick Co., 1413 G, N W
 Washington Brick & Terra Cotta Co., 13th G, N W

GEORGIA.

AUGUSTA—Georgia Vitrified Brick & Clay Co.
 ROME—Rome Brick Co.

IDAHO.

BOISE—Idaho Vitrified Brick & Pipe Co.

ILLINOIS.

ALBION—Albion Vitrified Brick Co.
 ABINGDON—Abingdon Paving Brick & Tile Co.
 ALTON—Alton Paving, Building & Fire Brick Co.
 AVON—Avon Milling & Mfg. Co.
 BELLEVILLE—Ittner, Anthony Brick Co.
 CARLINVILLE—Moody & Son
 CARMI—Archer & Lamar
 CHARLESTON—Charleston Tile & Brick Co.
 DANVILLE—Western Brick Co.
 EAST PEORIA—Carter, F. R.
 EDWARDSVILLE—Banner Clay Works
 GALESBURG—Purinton Paving Brick Co.
 JACKSONVILLE—Jacksonville Brick Works
 KANKAKEE—Kankakee Tile & Brick Co.
 LINCOLN—Lincoln Coal Co.
 LODA—Loda Brick & Tile Co.
 MACOMB—Macomb Sewer Pipe Co.
 MATTOON—Mattoon Tile Co.
 MONMOUTH—Monmouth Mining & Mfg. Co.
 OLNEY—Olney Paving Brick & Tile Mfg. Co.
 OTTAWA—Ottawa Silica Co.
 QUINCY—Gem City Paving Brick Co.
 READING—*Barr Clay Co.
 SPRINGFIELD—Sangamo Brick Co.
 Springfield Paving Brick Co.
 STREATOR—*Barr Clay Co.
 Streator Clay Mfg. Co.
 *Streator Paving Brick Co. (Side Cut, Repressed, etc.)

INDIANA.

ANDERSON—Indiana Brick Co.
 BRAZIL—Continental Clay & Mining Co.
 Excelsior Clay Works
 *Indiana Paving Brick & Block Co. (W. W. Winslow)
 BROOK—Brook Terra Cotta Tile & Brick Co.
 CLAY CITY—Clay City Brick & Clay Co.
 CLINTON—*Clinton Paving Brick Co.
 CRAWFORDSVILLE—*Poston Paving Brick Co.
 EVANSVILLE—*Evansville Pressed Brick Co.
 INDIANAPOLIS—*Indiana Paving Brick & Block Co. (W. W. Winslow)
 MARION—Marion Brick Works
 MECCA—Mecca Clay Works
 TERRE HAUTE—National Drain Tile Co.
 Terre Haute Vitrified Brick Co.
 VEEDERSBURG—Veedersburg Clay Co.
 *Wabash Clay Co.

INDIAN TERRITORY.

BARTLESVILLE—Bartlesville Vitrified Brick Co.
 McALESTER—McAlester Brick Co.
 MUSKOGEE—Muskogee Vitrified Brick Co.
 TULSA—Tulsa Vitrified Brick Co.

IOWA.

BOONE—*Boone Brick, Tile & Paving Co.
 BURLINGTON—Granite Brick Co.
 CLINTON—Iowa Granite Brick Co.
 DAVENPORT—Davenport Paving Brick & Tile Co.
 DES MOINES—Capital City Brick & Pipe Co.
 Des Moines Brick & Tile Co.
 *Flint Brick & Coal Co.
 Iowa Brick Mfg. Co.
 Iowa Pipe & Tile Co.
 GLADBROOK—Gethmann Brick Co. (The)
 GRAND JUNCTION—Goodwin Tile & Brick Co.
 MASON CITY—Mason City Brick & Tile Co.
 Mason City Clay Works (Inc.)
 OSKALOOSA—Oskaloosa Paving Brick Co.
 OTTUMWA—Ottumwa Brick & Construction Co.

RIVERSIDE—Swift, H. L.
 SIOUX CITY—Sioux City Brick & Tile Co.
 Sioux Paving Brick Co.
 TOLEDO—Tuna Valley Pressed Brick Co.

KANSAS.

ALTOONA—Altoona Vitrified Brick Co.
 ATCHISON—Atchison Paving Brick Co.
 CHANUTE—Chanute Cement & Clay Product Co.
 Coffeyville Vitrified Brick Co.
 CHERRYVALE—Cherryvale Brick Co.
 Coffeyville Vitrified Brick Co.
 COFFEYVILLE—Coffeyville Pressed & Paving Brick Co.
 Coffeyville Shale Brick & Roofing Tile Co.
 Coffeyville Vitrified Brick & Tile Co.
 COLUMBUS—Columbus Vitrified Brick & Tile Co.
 DEXTER—Dexter Vitrified Brick, Gas & Min-Fort Scott—Ft. Scott Brick Co. Ing Co.
 INDEPENDENCE—Coffeyville Vitrified Brick & Tile Co.
 IOLA—Iola Brick Co.
 Union Brick Co. (Repressed, etc.)
 LA HARPE—La Harpe Shale Brick Co.
 LAWRENCE—Lawrence Vitrified Brick & Tile Co.
 MOUND VALLEY—Mound Valley Vitrified Nelson Vitrified Brick Co. Brick Co.
 PITTSBURG—Pittsburg Vitrified Paving & Building Brick Co.
 SALINA—Salina Vitrified Brick Co.
 TOPEKA—Capital City Vitrified Brick & Paving Co., 107 6th av
 WICHITA—Wichita Silix Brick Co.

KENTUCKY.

FIREBRICK—Portsmouth Harbison-Walker Co.
 FIRECLAY—Grahn, K. B.
 LOUISVILLE—Kentucky Vitrified Brick Co.
 Louisville Fire Brick Works
 PADUCAH—Katterjohn, F. W. & Sons, 133
 PRINCETON—Princeton Brick Co.

LOUISIANA.

NEW ORLEANS—Salmen Brick & Lumber Co., 712 Common
 RUSTON—Ruston Brick Works
 SHREVEPORT—Shreveport Brick Co.
 SLIDELL—Slidell Brick Works

MAINE.

PORTLAND—Portland Stoneware Co.
 SAGO—New England Brick Co.

MARYLAND.

BALTIMORE—Baltimore Vitrified Clay Co., Builders' Ex.
 Burns & Russell Co., 15 W Saratoga
 Pottee Brick Co., Calvert bldg
 CUMBERLAND—*Queen City Brick & Tile Co.
 FREDERICK—Frederick Brick Works

MASSACHUSETTS.

SPRINGFIELD—Standard Brick Co., 310 Main

MICHIGAN.

DETROIT—Houghten, Hy., Hammond bldg
 Little, C. H., Peninsular Bank bldg
 Standard Shale Brick Co., Abbott c 1st
 GRAND RAPIDS—Grand Rapids Consolidated Brick & Tiling Co., Innes av & Fuller
 Valley City Brick Co., Fuller & E Bridge
 SAGINAW—Michigan Paving Brick Co.
 Saginaw Paving Brick Co.
 Saginaw Sandstone Brick Co.

MINNESOTA.

MINNEAPOLIS—Martin Brick Co., 504 Hennepin av
 Minneapolis Paving & Cement Brick Co., N. Y. Life bldg
 Vogt & Benson, Kasota bldg
 ST. PAUL—St. Paul Brick Co.

MISSOURI.

BOONVILLE—Boonville Vitrified Brick & Tiling Co.
 JOPLIN—Joplin Vitrified Brick Co. Ing Co.
 KANSAS CITY—Dickey, W. S. Clay Mfg. Co.
 Kansas City Paving Brick & Tile Co., K. & P. bldg
 Pittsburg Vitrified Paving & Building Brick Co., Postel Tel. bldg

MARCELINE—Marceline Paving Brick Co.
MOBERLY—Moberly Brick, Tiling & Earthenware Co.
ST. JOSEPH—St. Joseph Pressed Brick Co.
ST. LOUIS—Banner Mfg. Co., 1224 S. B'way
Fehlig, J. F. Vitrified Brick, 3500 Hickory
Laclede Fire Brick Mfg. Co., Manchester &
Sulphur avs
*St. Louis Clay Burning Co. (Paving), 308
N 6th
St. Louis Pressed Brick Co., Cass av &
Collins
St. Louis Vitrified & Fire Brick Co., Wainwright bldg

NEBRASKA.

BEATRICE—Beatrice Brick Works
OMAHA—Omaha Hydraulic Pressed Brick Co.
STROMSBURG—Stromsburg Pressed Brick &
Tile Co.

NEW JERSEY.

SOUTH AMBOY—Perrinc, H. C. & Son
SOUTH RIVER—National Pyrogranite Co.
Petit & Co.
TRENTON—Trenton Fire Brick Co.
WHIPPANY—Hanover Brick Co.
WINSLOW—Eastern Hydraulic Pressed Brick
Co.
WOODBIDGE—Ostrander Fire Brick Co.
Valentine, M. D. & Bro.

NEW YORK.

BUFFALO—Jewettville Pressed & Paving Brick
Co., Builders' Ex.
Lyth, John & Sons, 48 W Eagle
CATSKILL—*Katterskill Paving Brick Co.
CORNING—Brick, Terra Cotta & Tile Co.
ELMIRA—Elmira Shale Brick Co.
FISHKILL ON THE HUDSON—Bourne C. C.
HORNELLSVILLE—Preston Brick Co.
JAMESTOWN—Jamestown Shale Paving Brick
JEWETTVILLE—Ellicott Brick Co.
KINGSTON—Frederick Co. (The)
Hutton Co. (The)
Shults, Chas. A. (Est. of)
MECHANICSVILLE—Cary Brick Co.
Champlain Brick Co.
Ferris Paving Brick Co.
New England Brick Co.
NEWBURGH—Newburgh Brick Co.

NEW YORK CITY.

Boroughs of Manhattan & Bronx
NEW YORK—FLEMING & CO. (Adamantine Clinker), 123 Liberty. (See adv.
index, end of book)
National Pyrogranite Co., 17 Battery pl
Person & Co., 160 5th av
THOMAS, E. H. (Mfrs.' Agent),
1123 B'way
(END OF NEW YORK CITY)

ROCHESTER—Rochester Brick & Tile Mfg. Co.
Rochester German Brick & Tile Co.
Rochester Vulcanite Pavement Co.
SYRACUSE—Merrick, C. & L., 1008 S Salina
N. Y. Brick & Paving Co.
Onondago Vitrified Brick Co.
UTICA—Utica Brick & Tile Co.
WATERTOWN—Watertown Sand Brick Co.

NORTH CAROLINA.

ELIZABETH CITY—Elizabeth City Brick
REIDSVILLE—Robinson, J. Works
WINSTON SALEM—Winston Brick & Tile Co.

NORTH DAKOTA.

DICKINSON—Dickinson Fire & Pressed Brick
Co.
GRAND FORKS—Red River Valley Brick Co.
KENMARE—Kenmare Hard Coal, Brick & Tile
WALHALLA—Mayo Brick & Tile Co. Co.

OHIO.

AKRON—Akron Vitrified Clay Mfg. Co.
Cooper Bros.
Robinson Clay Product Co.
Windsor Brick Co.
ALLIANCE—Auld, John & Sons
ATHENS—Athens Brick Co.
AXLINE—Fultonham Brick Co.
BROOKLYN—Standard Brick Co. (The)
CANTON—*Canton Hollow Block Co.
*Cleveland Brick Co.
*Metropolitan Paving Brick Co. (Daily capacity, 300,000)
Novelty Pressed Brick Co.

CARROLLTON—*Carrollton Granite Brick Co.
(Wire Cut & Repressed)
CINCINNATI—Blair, The J. M. Brick Co.,
Builders' & Traders' Ex
Clermont Brick Co., The, Union Trust bldg
Westwood Brick Co., The, Union Trust bldg
CLEVELAND—*Carrollton Granite Brick Co.
(Wire Cut & Repressed), Rose bldg
Cleveland Brick & Clay Co., Harvard &
Valley
*Collinwood Shale Brick Co. (Vitrified Sewer),
Rose bldg
*Malvern Clay Co. (Wire Cut), Rose bldg
COLLINWOOD—*Collinwood Shale Brick Co.
COLUMBUS—Capital City Clay Co.
CONNEAUT—United Brick Co.
EMPIRE—Minor Fire Brick Co.
Stratton Fire Clay Co.
GARFIELD—Garfield Brick Co.
GLOUSTER—*Wassall Clay Co. (Blocks)
HAYDENVILLE—*Haydenville Co. (Blocks)
LISBON—Excelsior Fire Clay Co.
LOGAN—*Logan Brick Mfg. Co. (Blocks)
*Logan Clay Product Co.
LOUISVILLE—Louisville Brick & Tile Co.
MALVERN—Big Four Clay Co.
*Malvern Clay Co. (Wire Cut)
MARIETTA—Cisler, Thomas & Co.
MASSILLON—*Massillon Stone & Fire Brick Co.
MINERAL CITY—*American Fire Brick & Clay
Co.
Canton Sparta Brick Co.
Federal Clay Product Co.
Holden, C. E.
Model Brick Co.

MINERVA—*Minerva Paving Brick Co.
MOGADORE—Granite Clay Co., The
NELSONVILLE—*Nelsonville Brick Co. (Annual
Capacity, 12,000,000)
Nelsonville Sewer Pipe Co.
NEW COMERSTOWN—Novelty Brick & Coal
Co.
NILES—Niles Fire Brick Co.
PORTSMOUTH—Carlyle Paving Brick Co.
Louisville & Portsmouth Fire Brick Co.
Peebles Paving Brick Co.
Portsmouth Pressed Brick Co.
Scioto Star Firebrick Works
ROSEVILLE—*Roseville Brick & Terra Cotta
Co. ("Buckeye" Blocks)
SCIOTOVILLE—Scioto Fire Brick Co. ("Union")
SOUTH ZANESVILLE—*South Zanesville Sewer
Pipe & Brick Co. ("Bolen's" Brown Granite
& "Hawwood")
TOLEDO—*Logan Brick Mfg. Co. ("Logan")
TORONTO—Toronto Fire Clay Co.
TRIMBLE—Trimble Brick Mfg. Co.
UHRICHSVILLE—Advance Fireclay Co.
Buckeye Fire Clay Co.
WELLSVILLE—Vulcan Clay Co.
WICKLIFFE—*Kline, Jno. & Co. ("Buckeye,"
capacity, 5,000,000)
WOOSTER—Wooster Shale Brick & Clay Co.
YOUNGSTOWN—Interstate Limestone Co. (Successors to Bessemer Limestone Co.)
ZANESVILLE—Harris Brick Co., 28 N 2d
*Townsend, T. B. Brick & Contracting Co.

OKLAHOMA TERRITORY.

ENID—Enid Vitrified Brick & Tile Co.

OREGON.

PORTLAND—Diamond Brick Co., Ankeny st
Dock

PENNSYLVANIA.

ALLENSTOWN—Allentown Paving Brick Co.
BOLIVAR—Lincoln Fire Brick & Shape Co.
Reese-Hammond Fire Brick Co.
CARNEGIE—Rosslyn Brick Co. (Foundation &
Sewer)
CLEARFIELD—Clearfield Clay Working Co.
Clearfield Fire Brick Co.
CONNELLSVILLE—Soisson, Jos., Fire Brick
Co.
DUBOIS—Dubois Clay Mfg. Co.
Dubois & Butler Brick Co.
DUNBAR—Dunbar Fire Brick Co.
FALLSTON—Fallston Fire Clay Co.
HAMBURG—Hamburg Vitrified Brick Co.
HARMARVILLE—Kountz Bros. Co.
HUNKERS—Westmoreland Brick Co.
HYNDMAN—Savage Fire Brick Co.
JOHNSONBURG—*Johnsonburg Vitrified Brick
Co.
JOHNSTOWN—Basic Brick Co.
Haws, A. J. & Sons
Kelley, W. P. Brick Co.
KEYSTONE JUNCTION—Savage Fire Brick
Co.
KITTANNING—Kittanning Brick & Fire Clay
Co.
Kittanning Clay Mfg. Co.
Phoenix Fire Brick Works
KUSHEQUA—Kushequa Brick Co.
LAYTON—Stuart Fire Brick Co.
LOCK HAVEN—Penna. Fire Brick Co.
Queen's Run Fire Brick Co.

McKEESPORT—Bowman Bros. Co., Inc.
OSCEOLA MILLS—Osceola Silica & Fire Brick
PATTON—Patton Clay Mfg. Co.
PHILADELPHIA—Clay Product Supply Co.,
Real Estate Trust bldg
Hamburg Vitrified Brick Co., Land Title bldg
Ketcham, O. W. (Mfrs.' Agt.), 24 S. 7th
*McAvoy Vitrified Brick Co., Ger. Amer.
*Mack Mfg. Co., Land Title bldg
Montello Brick Works, Penna bldg
PINE GROVE—Pine Grove Vitrified Brick Co.
PINE GROVE FURNACE—Fuller Brick & Slate
Co.
PITTSBURG—*American Sewer Pipe Co., Bessemer bldg
Dunbar Fire Brick Co., Arrott bldg
Federal Clay Products Co.
Penna. Clay Co.
Pittsburg & Buffalo Co.
Savage Fire Brick Co., Park bldg
Standard Fire Brick Co., Empire bldg
Union Brick Co. (Ltd.), Park bldg
Welch, Gloninger & Maxwell, 345 4th av
PUNXSUTAWNEY—Nordstrom, Mrs. M. J.
READING—*Katterskill Paving Brick Co.
Montello Brick Works
Reading Shale Brick Co.
*Richmond Clay Product Co.
ROCHESTER—Miller Brick Co.
SCRANTON—Federal Granite Brick Co.
Interstate Conduit & Brick Co.
Scranton Vitrified Brick & Tile Mfg. Co.
SHARON—Sharon Fire Brick Co.
SHAWMUT—Shawmut Brick Co.
Shawmut Paving Brick Works.
WILLIAMS—Savage Fire Brick Co.
WILLIAMSPORT—*Guise Brick & Stone Co.
WINDBER—Kelley, Wm. P. Brick Co.
YOUNGSVILLE—Shale Rock Brick Co. (Ltd.)
Standard Shale Brick Co.

SOUTH CAROLINA.

KILLIAN—Carolina Fire Brick Co.

TENNESSEE.

CHATTANOOGA—Chattanooga Sewer Pipe &
Southern Clay Mfg. Co. Fire Brick Co.
Tennessee Tile & Paving Co.
KNOXVILLE—Knoxville Brick Co.
South Knoxville Brick Co.
ROBBINS—Southern Clay Mfg. Co.

TEXAS.

ATHENS—Athens Fire Brick Co.
CALAVERAS—Mackey Brick & Tile Mfg. Co.
DALLAS—Harry, J. M. Brick Co.
HOUSTON—Butler Brick Co.
SAN ANTONIO—Mackey Brick & Tile Mfg. Co.
THURBER—Texas & Pacific Coal Co.
WACO—Harris, J. N.

VIRGINIA.

CHILHOWIE—Southern Clay Mfg. Co.
LYNCHBURG—Roanoke Brick Co.

WASHINGTON.

CHENEY—Cheney Brick & Tile Mfg. Co.
LITTLE FALLS—Little Falls Fire Clay Co.
SEATTLE—Denny-Renton Clay & Coal Co.
Harper Brick & Tile Co.
Pontiac Brick & Tile Co.
Seattle Brick & Tile Works
SPOKANE—*Washington Brick, Lime & Mfg.
Co., 1st av & Stevens
TACOMA—Puget Sound Brick Co.

WEST VIRGINIA.

BLUEFIELD—Silica Brick & Sand Co.
CLARKSBURG—Clarksburg Brick Co.
HURRICANE—McCallister, Wm. H.
NEW CUMBERLAND—Acme Clay Works
Claymont Brick Works
Mack Mfg. Co.
WHEELING—Suburban Brick Co.

WISCONSIN.

MANITOWOC—Manitowoc Clay Product Co.
MILWAUKEE—Burnham Bros., 525 Howell av
Kraatz, Chas., 181 16th
Standard Brick Co., 496 Clement av

Brick Mfrs. (White)

CHESTNUT RIDGE WHITE BRICK
Co., Kunkletown, Pa., & 121 W 42d, New
York. (See adv. index, end of book)
Dickey, W. S. Clay Mfg. Co. (Standard only),
New York Life bldg, Kansas City, Mo.

FISKE & COMPANY (Inc.) (Also Ornamental), 161 Devonshire, Boston, Mass., & Flatiron bldg, New York. (See adv. index, end of book)

Florida White Pressed Brick Co., Jacksonville, Fla.

*Gladding, McBean & Co. (also Ornamental), Rialto bldg, San Francisco, Cal. Works: Lincoln, Colo.

*Golden Pressed & Fire Brick Co. (also Ornamental), 431 15th, Denver, Colo.

Houston White Brick Co., Houston, Tex.

Hydraulic Press Brick Co., 705 Olive, St. Louis, Mo.

KREISCHER BRICK MFG. CO., 119 E 23d, New York. Works: Kreischerville, S. I., N. Y. (See adv. index, end of book)

*Los Angeles Pressed Brick & Terra Cotta Co. (also Ornamental), Office & Works, Los Angeles, Cal.

Mt. Holly Brick & Clay Co. (Vitrified White & Light Colored), Harrisburg, Pa.

*Powhatan Clay Mfg. Co. (Cream White in Standard Roman, Norman & Ornamental Shapes), Chamber of Commerce bldg, Richmond, Va., & 1123 B'way, New York. Works: Clayville, Va.

*SAYRE & FISHER CO. (also Ornamental), 261 B'way, New York. Works: Sayreville, N. J. (See adv. front inside cover)

*Brick (Stove Lining)

RUTLAND FIRE CLAY CO., Rutland, Vt. (See adv. index & branch offices, end of book)

*Brick & Cement Waterproofings

CABOT, SAMUEL, 141 Milk, Boston, Mass. (See adv. index & branch offices, end of book)

Brick & Stone Preservative

CABOT, SAMUEL ("Cabot's"), 141 Milk, Boston, Mass., & 28 Dearborn av., Chicago, Ill. (See adv. index & branch offices, end of book)

Parker, Preston & Co. (Inc.), Norwich, Conn.

Bricklayers

(See Builders, Contracting)

Bridge Builders (Lift)

American Bridge Co. (Rolling Lift), 42 B'way, New York

Cowing Engineering Co., The (also Swing Bridges), Citizens bldg, Cleveland, O.

Page & Shnable ("Page" Bascule), Security bldg, Chicago, Ill.

Scherzer Rolling Lift Bridge Co., 1616 Monadnock blk, Chicago, Ill.

Strauss Bascule & Concrete Bridge Co., Fort Dearborn bldg., Chicago, Ill.

STROBEL STEEL CONSTRUCTION Co. ("Roll" Bascule), Monadnock blk, Chicago, Ill.

Bridge Builders (Re-Enforced Concrete)

(See Concrete, Steel Construction, Re-Enforced)

Bridge Builders (Steel)

(See firms designated with a Star "*" under Steel Structural Work)

Bridge Builders (Stone)

(See Contractors, General; also Contractors, Railroad)

*Bridge Caissons

(See also Caissons, Sheet Iron.)

SCAIFE, WM. B. & SONS CO., 221 1st, av, Pittsburg, Pa. (See adv. index, end of book)

Bridge Erecting Engines

(See Engines, Bridge Erecting)

Bridge Foundations

(See also Caisson Foundations)

Blome, R. S. Co., Unity bldg., Chicago, Ill.

Cowing Engineering Co., Citizens bldg, Cleveland, O.

Cranford Paving Co., Home Life bldg, Wash'n, D. C.

Foundation Co. (Engineers & Contractors, Pneumatic, etc.), Nassau, New York.

Goodwin Construction Co., 60 Wall, New York

Kahmann & McMurray, Kansas City, Mo.

McMullen, Arthur & Co., 15 Park row, New York

Masters & Mullen Construction Co., Rose bldg, Cleveland, O.

Neuchatel Asphalte Co. (Ltd.) (Concrete), 265 B'way, New York

O'Rourke Engineering Construction Co., 1 W 34th, New York

Reid-Turnbull Construction Co., Penna. bldg, Phila., Pa.

Rodgers, J. C., 1929 Amsterdam av, New York

Simplex Foundation Co., North American bldg, Phila., Pa.

Sutter, Jno. H., 108 La Salle, Chicago, Ill.

Syracuse Bridge Co. (Concrete, etc.), Syracuse, N. Y.

Bridge Masonry

(See Contractors, General; also Builders, Contracting)

Bridge Pins

Columbia Bridge Co., Park bldg, Pittsburg, Pa.

Finished Steel Co. (Polished Steel), Youngstown, O.

Bridge Railings

Albree, Chester B. Iron Works, 1116 Western av, Allegheny, Pa.

AMOS, CHAS. & CO., 94 W. Larned, Detroit, Mich. (See adv. index, end of book)

Atlanta Wire & Iron Works Co., Atlanta, Ga.

Bayley, Wm. Co., Springfield, O.

Belmont Iron Works, 22d & Wash'n av., Phila., Pa.

BETHLEHEM FOUNDRY & MACHINE Co., Front, South Bethlehem, Pa., & 149 B'way, New York. (See adv. index, end of book)

Climax Road Machine Co., Marathon, N. Y.

Crown Iron Works Co., 113 2d av, S. E., Minneapolis, Minn.

Hallman, Oliver, Mont Clare, Pa.

MERRITT & CO., 1024 Ridge ave., Phila., Pa. (See adv. index, end of book)

Toledo-Massillon Bridge Co., Toledo, O.

UNION EQUIPMENT AND BRONZE CO., 520 W 36th, N. Y. (See adv. outside stencil)

Vilsack, Martin Co. (Ltd.), 3222 Penn av, Pittsburg, Pa.

*Bridge Rails (Steel)

DAHLSTROM METALLIC DOOR CO., Jamestown, N. Y., & 299 B'way, New York. (See adv. index, end of book)

Bridge Timbers (Creosoted)

(See Creosoting Works)

*Bridges (Coal Handling)

HAYWARD CO., THE, 99 Cedar, New York. (See adv. index, end of book)

Bridges (Concrete Reinforced)

(See Concrete Steel Construction, Reinforced)

*Bridges (Ore Handling)

HAYWARD CO., THE, 99 Cedar, New York. (See adv. index, end of book)

Bridges (Rolling Lift)

(See Bridge Builders, Lift)

*Bridges (Sand Handling)

HAYWARD CO., THE, 99 Cedar, New York. (See adv. index, end of book)

Bridges (Steel Girder)

Climax Road Machine Co. (with Gas Pipe Railings), Marathon, N. Y.

WORDEN-ALLEN CO., P. O. Box 528, Milwaukee, Wis. (See adv. index and branch offices, end of book)

*Bridges (Traveling)

ROBINS CONVEYING BELT CO., 19 Park row, New York. (See adv. index, end of book)

*Bridle Rings

STAR EXPANSION BOLT CO., 147 Cedar, New York. (See adv. index, end of book)

Britannia Ware Mfrs.

Manning, Bowman & Co., Meriden, Conn.

Meriden Britannia Co., Meriden, Conn.

Pia, Peter F., 129 White, New York

Prisk, Wm. M. & Co., Yalesville, Conn.

Broilers

(See Cooking Apparatus.)

Broilers (Electric)

American Electrical Heater Co., 121 State, Detroit, Mich.

Pronetheus Electrical Co., 41 Cortlandt, New York

Simplex Electrical Co., 110 State, Boston, Mass.

Broken Stone

(See Stone, Crushed; also Trap Rock.)

Bronze (Architectural, Etc.)

American Bronze Foundry Co., 73d & Woodlawn av, Chicago, Ill.

Ames Foundries, Chicopee, Mass.

AMOS, CHARLES & CO., Detroit, Mich. (See adv. index, end of book)

Bailey, Banks & Biddle Co., 12th & Chestnut, Phila., Pa.

BIGELOW CHENEY WIRE WORKS, Springfield, Mass. (See adv. index, end of book)

BRADLEY & HUBBARD MFG. CO., Meriden, Conn. (See Adv. index, end of book)

BROWN BROS. MFG. CO., 22d & Campbell av, Chicago, Ill. (See adv. index, end of book)

BUFFALO WIRE WORKS CO., 316 Terrace, Buffalo, N. Y. (See adv. index, end of book)

Bureau Bros., 21st & Allegheny av, Phila., Pa.

Burkhardt, John, 614 W 55th, New York

CABARET, PAUL E. & CO., 342 W. 14th, New York. (See adv. index, end of book)

Campbell, Harry E. Co., Albany, N.Y.

CHICAGO ORNAMENTAL IRON CO., 37th & Stewart av, Chicago, Ill. (See adv. index, end of book)

CITY FORGE & IRON WORKS (An- drew Plocher, Prop.), Dayton, O. (See adv. index, end of book)

Columbia Iron & Wire Works Co., Canton, O.

Flour City Ornamental Iron Works, Minneapolis, Minn.

Gaumer, John L. Co., 22d & Wood, Phila., Pa.

Gorham Co., Providence, R. I.

Graf, Frank H., 322 7th av, New York

HALSTED, JOS. CO., 388 W. Ran- dolph, Chicago, Ill. (See adv. index, end of book)

Hecla Iron Works, 118 N 11th, Brooklyn, N. Y.

HENRY-BONNARD BRONZE CO., Sales Offices: 5 E 42d, New York. Works: Mount Vernon, N. Y. (See adv. index, end of book)

JACKSON, WM. H., COMPANY, 29 E. 17th (Union square), New York. (See adv. index, end of book)

Janusch, F. G. (Est. of), 750 E 134th, New York

Johnson Service Co., Milwaukee, Wis.

Jones, Jas. Co., Los Angeles, Cal.

Manhattan Brass Co., 338 E 28th, New York

Midland Metal Co., 1427 Catherine, Phila., Pa.

Mills, Wm. J. (Doors, etc.), 639 Kent av, Brooklyn, N. Y.

Mott, J. L. Iron Works, 118 5th av, New York

Muth, Ch., 428 Blue Island av, Chicago, Ill.

Richey, Browne & Ronald, Maspeth, Borough of Queens, N. Y. City.

Schrelber, L. & Sous Co., 8th & Eggleston av, Cincinnati, O., & 1133 B'way, New York

SMITH, F. P. WIRE & IRON WORKS,
100 Lake, Chicago, Ill. (See adv. index, end of book)

SNEAD & CO. IRON WORKS, ft. of
Pine, Jersey City, N. J. (See adv. index, end of book)

Standard Co., W 15th & Laflin, Chicago, Ill.
Sterling Bronze Co., 107 W 25th, New York
Tiffany & Co., 395 5th av, New York

TYLER, W. S. CO., Cleveland, O. (See
adv. index & branch offices, end of book)



Every Article Bearing this
Trade Mark has Distinctive
Merit in Craftsmanship
and Artistic Finish.

UNION EQUIPMENT AND BRONZE CO.

514-520 WEST 36TH ST. NEW YORK

ARCHITECTS WORK SOLICITED

VAN KANNEL REVOLVING DOOR
Co. ("Enuphyll"), 524 E 134th, New York.
(See adv. index & branch offices, end of book)

VULCAN CO., Detroit, Mich. (See
adv. index, end of book)

Williams, John, 556 W 27th, New York

WINSLOW BROS. COMPANY, Main
Office & Works, 2515 W Harrison, Chicago,
Ill. (See adv. index & branch offices, end of book)

WISCONSIN IRON & WIRE WORKS,
190 E Water, Milwaukee, Wis. (See adv.
index, end of book)

*Bronze, Architectural (Henry Bonnard)

HENRY-BONNARD BRONZE CO.,
Sales Office, 5 E 42d, New York; Works:
Mt. Vernon, N. Y. (See adv. index, end of book)

*Bronze, Architectural (Wrought)

HENRY-BONNARD BRONZE CO.,
Sales Office, 5 E 42d, New York; Works:
Mt. Vernon, N. Y. (See adv. index, end of book)

Bronze Doors

American Bronze Foundry Co., 73d & Woodlawn
av, Chicago, Ill.

Ames Foundries, Chicopee, Mass.

AMOS, CHAS. & CO., 94 W Larned,
Detroit, Mich. (See adv. index, end of book)

BROWN BROS. MFG. CO., 22d &
Campbell av, Chicago, Ill. (See adv. index,
end of book)

Bureau Bros., 21st c Allegheny av., Phila., Pa.

BRADLEY & HUBBARD MFG. CO.,
Meriden, Conn. (See adv. index, end of book)

Burkhardt, John, 614 W 55th, New York

CABARET, PAUL E. & CO., 342 W.
14th, New York. (See adv. index, end of book)

CHICAGO ORNAMENTAL IRON CO.
(Architectural, etc.), 37th c Stewart av,
Chicago, Ill. (See adv. index, end of book)

Gorham Co., Providence, R. I.

Hecla Iron Works, 118 N 11th, Brooklyn, N. Y.

HENRY-BONNARD BRONZE CO.,
Sales Office 5 E 42d, New York; Works:
Mount Vernon, N. Y. (See adv. index, end of book)

JACKSON, WM. H., COMPANY, 29 E.
17th (Union square), New York. (See adv.
index, end of book)

Janusch, F. G. (Est. of), 750 E 134th, New York

Jones, Jas. Co., Los Angeles, Cal.

Manhattan Brass Co., 338 E 28th, New York

Mills, W. J., 639 Kent av., Brooklyn, N. Y.

Mott, J. L. Iron Works, 118 5th av, New York

Richey, Brown & Donald, Maspeth, Borough of
Queens, N. Y. City.

Schreiber, L. & Sons Co., 8th & Eggleston, Cin-
cinnati, O., & 1133 B'way, New York

SMITH, F. P. WIRE & IRON WORKS,
100 Lake, Chicago, Ill. (See adv. index, end of book)

SNEAD & CO. IRON WORKS, ft. of
Pine, Jersey City, N. J. (See adv. index,
end of book)

TYLER, W. S. CO., Cleveland, O., &
(See adv. index & branch offices, end of book)

UNION EQUIPMENT AND BRONZE CO.

520 W 36th, N. Y. (See adv. outside stencil)

VAN KANNEL REVOLVING DOOR
Co. ("Enuphyll"), 524 E 134th, New York
(See adv. index & branch offices, end of book)

VULCAN CO., Detroit, Mich. (See
index, end of book)

Williams, John, 556 W. 27th, New York

WINSLOW BROS. COMPANY, Main
Office & Works, 2515 W Harrison, Chicago,
Ill. (See adv. index & branch offices, end of book)

WISCONSIN IRON & WIRE WORKS,
190 E. Water, Milwaukee, Wis. (See adv.
index, end of book)

Bronze Founders

(See also Bronze Castings)

American Bronze Foundry Co., 73d & Woodlawn
av, Chicago, Ill.

Ames Foundries, Chicopee, Mass.

Bay State Brass Foundry, 155 A, S Boston,
Mass.

Bureau Bros., 21st c Allegheny av, Phila., Pa.

CABARET, PAUL E. & CO., 342 W
14th, New York. (See adv. index, end of book)

Gorham Co., Providence, R. I.

Hecla Iron Works, 118 N 11th, Brooklyn, N. Y.

HENRY-BONNARD BRONZE CO.
Sales Offices, 5 & 7 E. 42d, New York.
Works: Mt. Vernon, N. Y. (See adv.
index, end of book)

JACKSON, WM. H. COMPANY, 29 E
17th (Union Square), New York. (See adv.
index, end of book)

Johnson Service Co. (Architectural), Milwaukee,
Wis.

Keystone Bronze Co., 38th & A. V. R'y, Pitts-
burg, Pa.

McGann, Thos. F., 104 Portland, Boston, Mass.

Manhattan Brass Co., 338 E 28th, New York

Murdock-Sbaw Co., Boston, Mass.

Mills, Wm. J., 639 Kent av, Brooklyn, N. Y.

SNEAD & CO. IRON WORKS, ft. of
Pine, Jersey City, N. J. (See adv. index,
end of book)

Schreiber, L. & Sons Co., 8th & Eggleston av,
Cincinnati, O., & 1133 B'way, New York

SMITH, F. P. WIRE & IRON WORKS
100 Lake, Chicago, Ill. (See adv. index, end of book)

UNION EQUIPMENT AND BRONZE CO.

520 W 36th, N. Y. (See adv. outside stencil)

Williams, John, 556 W 27th, New York

*Bronze Lamps

HENRY-BONNARD BRONZE CO.,
Sales Office, 5 & 7 E. 42d, New York.
Works: Mt. Vernon, N. Y. (See adv.
index, end of book)

JACKSON, WM. H. CO., 29 E. 17th
Union Sq.), New York. See adv. index, end of book)

*Bronze Letters for Building Fronts

BROWN BROS. MFG. CO., 22d &
Campbell av, Chicago, Ill. (See adv. index,
end of book)

CABARET, PAUL E. & CO., 342 W
14th, New York (See adv. index, end of book)

Gorham Co., Providence, R. I.

HENRY-BONNARD BRONZE CO.,
Sales Office, 5 E 42d, New York; Works:
Mt. Vernon, N. Y. (See adv. index, end of book)

JACKSON, WM. H. COMPANY, 29 E
17th (Union square), New York. (See adv.
index, end of book)

UNION EQUIPMENT AND BRONZE CO.

520 W 36th, N. Y. (See adv. outside stencil)

Bronze (Manganese)

(See Castings, Manganese Bronze)

Bronze Monuments & Statuary

American Bronze Foundry Co., 73d & Woodlawn
av, Chicago, Ill.

Ames Foundries, Chicopee, Mass.

Bureau Bros., 21st c Allegheny av, Phila., Pa.

CABARET, PAUL E. & CO., 342 W.
14th, New York. (See adv. index, end of book)

Gorham Co., Providence, R. I.

HENRY-BONNARD BRONZE CO.,
Sales Office, 5 & 7 E. 42d, New York.
Works: Mt. Vernon, N. Y. (See adv.
index, end of book)

JACKSON, WM. H. COMPANY, 29 E.
17th (Union square), New York. (See adv.
index, end of book)

UNION EQUIPMENT AND BRONZE CO.

520 W 36th, N. Y. (See adv. outside stencil)

Bronze (Phosphor)

(See Castings, Phosphor Bronze)

Bronze Powders

American Bronze Powder Mfg. Co., 132 Church,
New York. Works: Verona, N. J.

Arnstein, Eugene, 35th & Shields av, Chicago,
Ill.

BINSWANGER, B. & CO., 115 N. 4th,
Phila., Pa.

Bronze Powder Works Co., 93 William, New
York, & Elizabeth, N. J.

Cullen, F. C. & Co. (Gold, Copper & Alumi-
num), 704 W Lake, Chicago, Ill.

Drakenfeld, B. F. & Co., 27 Park Place, N. Y.

Engel, Jno. & Co., 137 W B'way, New York

FRENCH, SAMUEL H. & CO., 4th &
lowhill, Phila., Pa. (See adv. index, end of book)

Fuchs & Lang Mfg. Co., 29 Warren, New York

Gerstendorfer Bros., 231 E 42d, New York

GRAMMES, L. F. SONS (All Colors),
Allentown, Pa. (See adv. index, end of book)

Horn, A. C. Co., 8 Burling slip, New York

Kemp, W. H. Co., 165 Spring, New York

Lucas, John & Co., 322 Race, Philadelphia,
Pa.

Marsching, John, 27 Park pl, New York

Morrill, Geo. H. Co., 49 Rose, New York

Pomeroy & Fischer, 30 Frankfort, N. Y.

Riessner, T., Gold & Ann, New York

Schlegel, Oscar Mfg. Co. (Aluminum, Gold,
Bronze & Liquid), 111 E 12th, New York

Wheeler, Asabel Co., 54 High, Boston, Mass.

Bronze (Radiator)

(See Bronze Powders.)

Bronze Railings

(See Bronze, Architectural.)

*Bronze Size

GRAMMES, L. F. SONS, Allentown,
Pa. (See adv. index, end of book)

Bronze Tablets, Etc.

Abbott, W. H., 1263 B'way, N. Y.

American Bronze Foundry Co., 73d & Woodlawn
av, Chicago, Ill.

AMOS, CHARLES & CO. (Also Brass)
94 W. Larned, Detroit, Mich. (See adv. in-
dex, end of book)

Bailey, Banks & Biddle Co., 12th & Chestnut,
Phila., Pa.

BRADLEY & HUBBARD MFG. CO.,
Meriden, Conn. (See adv. index, end of book)

BROWN BROS. MFG. CO., 22d &
Campbell av, Chicago, Ill. (See adv. index,
end of book)

BUFFALO WIRE WORKS CO., 316
Terrace, Buffalo, N. Y. (See adv. index,
end of book)

Bureau Bros., 21st c Allegheny av, Phila., Pa.

CABARET, PAUL E. & CO., 342 W.
14th, New York. (See adv. index, end of book)

CHICAGO ORNAMENTAL IRON CO.,
37th c Stewart av, Chicago, Ill. (See adv.
index, end of book)

Clark, Jno. W., Albany, N. Y.

Fiske, J. W., 39 Park pl, New York

Gorham Co., Providence, R. I.

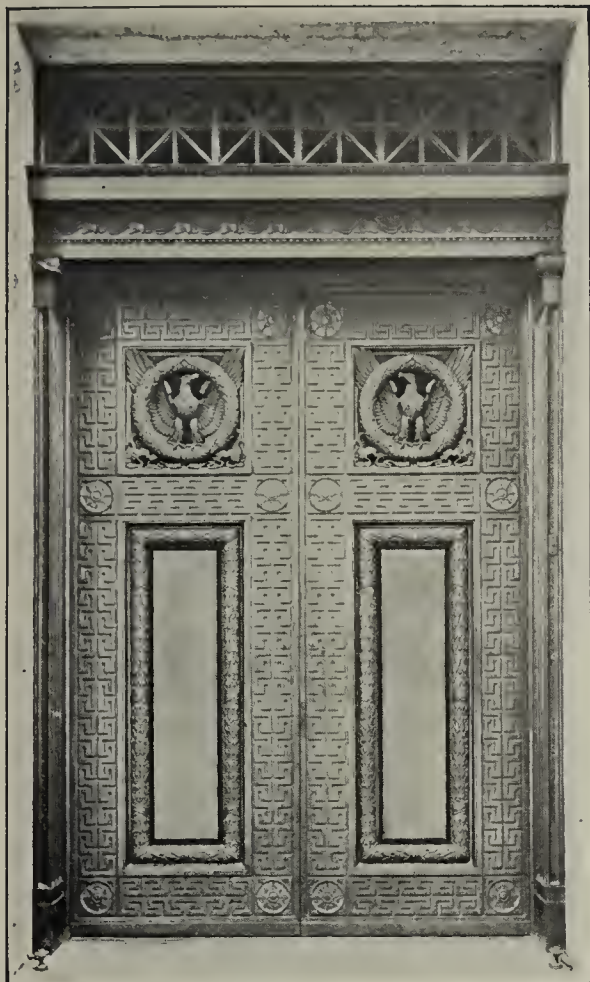
Hecla Iron Works, 118 N 11th, Brooklyn, N. Y.

HENRY-BONNARD BRONZE CO.,
Sales Offices, 5 & 7 E. 42d, New York.
Works: Mt. Vernon, N. Y. (See adv. index,
end of book)

JACKSON, WM. H. COMPANY, 29 E.
17th (Union square), New York. (See adv.
index, end of book)

Johnson Service Co., Milwaukee, Wis.

Lobel-Andrews Co., 531-533 W. 55th, New York



BRONZE ENTRANCE DOORS
ROCHESTER TRUST AND SAFE DEPOSIT CO.
YORK & SAWYER, Architects



EXECUTED BY

WM. H. JACKSON COMPANY

29 EAST 17TH STREET (Union Square)

NEW YORK CITY

ALSO

163 MICHIGAN AVENUE

CHICAGO

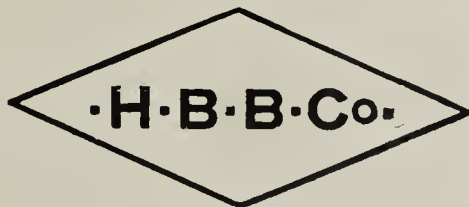


ARTISANS IN ALL METALS

The Henry-Bonnard Bronze Company

FOUNDERS AND ARTISANS
OF HIGH GRADE BRONZE
IN ALL BRANCHES

Monumental, Colossal,
Sculptural, Architectural,
Wrought, Decorative . .



Established, - - - 1872
Gold Medal, Paris, 1900
Grand Prize, St. Louis, 1904

EXECUTIVE OFFICE AND WORKS

MT. VERNON, N. Y.

SALES OFFICES

5 and 7 East 42d St., New York

PAUL E. CABARET & CO.

SPECIALISTS in Architectural, Memorial and Decorative Work in

BRONZE AND BRASS

BANK RAILINGS, MAUSOLEUM DOORS, MEMORIAL TABLETS, ETC.

HIGH CLASS WORK ONLY

Architects' Designs Faithfully Carried Out

OFFICE and STUDIO

342 West 14th St., NEW YORK CITY

SHOPS

West 13th St., NEW YORK CITY

Established 20 Years.



THE VULCAN COMPANY, Detroit, Mich.,

DESIGNERS AND MANUFACTURERS OF

DOORS AND GATES FOR MAUSOLEUMS,

IN STANDARD BRONZE, BRASS OR STEEL.

MEMORIAL TABLETS, CATACOMB HANDLES, WINDOW GRILLS,
GLASS FRAMES, and All Metal Work for Mausoleums.

FIRST CLASS WORK GUARANTEED.

WE ALSO DESIGN AND MANUFACTURE

Ornamental Wrought Iron Gates, Fences, Railings, Fire Escapes,
Window Guards, Bank Railings, Stable Fittings,

AND A COMPLETE LINE OF ARCHITECTURAL METAL WORK.

CATALOG ON APPLICATION.

Hendricks'



Commercial Register..

Is consulted by more than 100,000 Buyers annually.

If you want to reach a Buyer advertise in this Book.

No Book more frequently consulted regarding the purchasing
of materials, machinery or supplies.

Used by the Purchasing Department of every large concern
in the United States.

McCafferty, J. H. & Co., 436 Harrison av, Boston, Mass.
 McKibbin, G. N. Mfg. Co., South Norwalk, Conn.
 Mills, Wm. J., 639 Kent av., Brooklyn, N. Y.
 Mott, J. L., Iron Works, 118 5th av, New York
 Murdoch-Shaw Co., Boston, Mass.
 Phoenix Steel Co., Inc., Putnam & P. R. R., Pittsburgh, Pa.
 Prochazka, Ferdinand, 1 Madison av, New York
 Richey, Browne & Donald, Maspeth, Borough of Queens, New York City
 Schreiber, L. & Sons Co., 8th & Eggleston av, Cincinnati, O., & 1133 B'way, New York
 Shreve, Crump & Low Co., 147 Tremont, Boston, Mass.
SMITH, F. P. WIRE & IRON WORKS,
 100 Lake, Chicago, Ill. (See adv. index, end of book)
SNEAD & CO IRON WORKS, Jersey
 City, N. J. (See adv. index, end of book)
 Standard Co., W 15th & Lafin, Chicago, Ill.
 Sterling Bronze Co., 107 W 25th, New York
 Tiffany & Co., 395 5th av, New York
 Turner Brass Works, 66 Michigan, Chicago, Ill.
 Tuttle & Bailey Mfg. Co., 83 Beekman, New York
TYLER, W. S. CO., Cleveland, Ohio,
 & 11 B'way, New York. (See adv. index, end of book)



Every Article Bearing this
 Trade Mark has Distinctive
 Merit in Craftsmanship
 and Artistic Finish.

UNION EQUIPMENT AND BRONZE CO.

514-520 WEST 36TH ST. NEW YORK

ARCHITECTS WORK SOLICITED

VULCAN CO., Detroit, Mich. (See adv. index, end of book)
 Williams, Jno., 556 W 27th, New York
WINSLOW BROS. COMPANY, Main
 Office & Works, 2515 W Harrison, Chicago, Ill. (See adv. index & branch offices, end of book)
 Yale & Towne Mfg. Co., 9 Murray, New York.
 Works: Stamford, Conn.

Bronze (Tobin Metal)

Ansonia Brass & Copper Co., Ansonia, Conn., & 90 John, New York
HUNGERFORD, U. T. BRASS & COP-
 per Co. (Plates, Circles & Rods), 497 Pearl, New York

Bronzing Liquids

Acme White Lead & Color Works, Detroit, Mich.
 Detroit Stove Polish Co., Detroit, Mich.
FRENCH, SAMUEL H. & CO., 4th &
 Callowhill, Phila., Pa. (See adv. index, end of book)
 Lucas, John & Co., 322 Race, Phila., Pa.
 Hommel, O. Co., 400 Duquesne way, Pittsburgh, Pa.
 Sherwin-Williams Co., 104 Canal, Cleveland, O.

*Brooms (Bamboo)

OSBORN MFG. CO. (Push, Scrubbing,
 etc.), 5401 Hamilton av, N. E., Cleveland, O. (See adv. index, end of book)

*Brooms (Foundry)

OSBORN MFG. CO., 5401 Hamilton
 av, N. E., Cleveland, O. (See adv. index, end of book)

Brooms (Rattan)

Indianapolis Brush & Broom Mfg. Co. (Capitol Rattan Mixer), 30 Brush, Indianapolis, Ind.
OSBORN MFG. CO., 5401 Hamilton
 av, N. E., Cleveland, O. (See adv. index, end of book)
 Zelnicker, Walter A. Supply Co. (also Bamboo & Tampico Fibre), 408 N 4th, St. Louis, Mo.

*Brooms (Street & Stable)

CINCINNATI MFG. CO., 1243 W. 6th,
 Cincinnati, O. (See adv. index, end of book)
OSBORN MFG. CO., Cleveland, O.
 (See adv. index, end of book)

Brooms (Street Sweeping)

Edson Mfg. Co., 257 Atlantic av, Boston, Mass.
OSBORN MFG. CO., 5401 Hamilton
 av, N. E., Cleveland, O. (See adv. index, end of book)
 Warth, Jno. F. & Bro., 215 3d av, Brooklyn, N. Y.

Brooms & Brushes (Track)

Lay, Jos. & Co., Ridgeville, Ind.
 Mulholland, William, 80 Lafayette, New York
OSBORN MFG. CO., 5401 Hamilton
 av, N. E., Cleveland, O. (See adv. index, end of book)
 Pilley Packing & Flue Brush Mfg. Co., 606 S 3d, St. Louis, Mo.
SMITH, J. D. FDY SUPPLY CO., 1581
 Columbus rd, N. W., Cleveland, O. (See adv. index, end of book)
 Syracuse Broom Co., Syracuse, N. Y.

*Brown Prints & Papers

SOLTMANN, E. G.

(Also everything for the Architect, Engineer & Draughting Room), 125 E 42d, New York. (See adv. index, end of book)

Brushes (Boiler Flue)

(See also Boiler Flue & Tube Cleaners)

Browne, F. W. (Wire), Farmington, N. H.
 Chesterton, A. W. & Co., 64 India, Boston, Mass.
 Coggeshall Mfg. Co. ("Coggeshall"), Hamburg, N. J.
 Flint, Warren F., 103 Merrimac, Boston, Mass.
 Gerhardt, Christian, 591 Hudson, New York
 McKim, John & Co., 131 N 10th, Phila., Pa.
 Pilley Packing & Flue Brush Mfg. Co. ("Abrams"), St. Louis, Mo.
 Prosser, Thos. & Son, 15 Gold, New York
 Thum, Chas. D., 150 N 3d, Phila., Pa.
 Unique Engineering Co., 100 Hinsdale, Brooklyn, N. Y.
 Wolfe Brush Co., Ltd., S 15th & Bingham, Pittsburgh, Pa.

*Brushes (Bran & Shorts)

ALLIS-CHALMERS CO., Milwaukee,
 Wis. (See adv. index & branch offices, end of book)

*Brushes (Copper)

WALSH, JNO. F. CO. ("K. & W.")
 Dynamo), Pittsfield, Mass. (See adv. index, end of book)
 Western Electric Co., 259 S Clinton, Chicago, Ill., & 57 Bethune, N. Y.

Brushes (Dynamo & Motor)

Atlantic Mfg. Co. ("Hiko" Carbon), Allenhurst, N. J.
 Barkalew Electric Mfg. Co. ("Sparkless"), Middletown, O.
 Bernard, E. G. Co., 450 Fulton, Troy, N. Y.
 Copley-Senior Carbon Co., 465 G'wich, New York
 Crown Woven Wire Brush Co. ("K"), Salem, Mass.
 Crouse-Tremaine Carbon Co., Fostoria, O.
 Dickey-Sutton Carbon Co., Lancaster, O.
DIXON, JOSEPH CRUCIBLE, CO.
 (Graphite), Jersey City, N. J. (See adv. index & branch offices, end of book)
 Eastern Carbon Works, Jersey City, N. J.
 Elevator Supply & Repair Co., 76 W Monroe, Chicago, Ill.
 Eureka Tempered Copper Works, North East, Pa.
 Francis & Comas, 115 N 6th, Philadelphia, Pa.
 Galvanic Metal Paper Co. (Carbon & Copper), Jersey City, N. J.
GENERAL ELECTRIC CO., Schenectady,
 N. Y. (See adv. index & branch offices, end of book)
 Goldmark & Wallace ("German American"), 67 Cortlandt, New York
 Hart & Co., Monadnock blk, Chicago, Ill.
 Independent Carbon Co., Cleveland, O.
 Le Valley Vitae Carbon Brush Co. (Self-Lubricating), 119 E 42d, New York
 McMurtry, Jas. E. & Co., 749 N Park av, Chicago, Ill.
 National Carbon Co. (Motor & Dynamo), West Madison & Highland avs, Lakewood, Cleveland, O.
 Ohio Electric Specialty Mfg. Co., Troy, O.
 Peerless Electric Co., 122 S Green, Chicago, Ill.
 Perfection Supply Co., 621 B'way, New York

Philadelphia Electrical & Mfg. Co. (Solid & Leaf, for Brush T-H, & Wood & Are Machines), 2011 Market, Phila., Pa.
 Speer Carbon Co., St. Mary's, Pa.
WALSH, JNO. F. CO. ("K. & W."),
 Pittsfield, Mass. (See adv. index, end of book)

Washington Carbon Co., Washington, Pa.
 Western Electric Co., 259 S Clinton, Chicago, Ill., & 57 Bethune, N. Y.
 Wirt Electric Co., 3108 Gtn av., Phila., Pa.

Brushes (Floor Polishing)

Chicago Wood Finishing Co., 261 Elston av, Chicago, Ill.
FRENCH, SAM'L H. & CO., 4th &
 Callowhill, Phila., Pa. (See adv. index, end of book)
 Herr, Jno. Floor Co., 1822 Olive, St. Louis, Mo.

THE INTERIOR HARDWOOD CO
MANUFACTURERS INDIANAPOLIS, IND.

(See adv. index, end of book)

WOOD MOSAIC CO., 315 5TH AV.,
 New York. (See adv. index, end of book)
WOOD-MOSAIC FLOORING CO., Main
 Office & Factory, Rochester, N. Y. (See adv. index & branch offices, end of book)

*Brushes (Flue)

CINCINNATI MFG. CO., 1243 W 6th,
 Cincinnati, O. (See adv. index, end of book)
OSBORN MFG. CO., Cleveland, O.
 (See adv. index, end of book)

Brushes (Foundry, Machine & Factory)

Austin, Chas. A. Brush Co., 134 North, Boston, Mass.
 Bradley & Smith, 251 Pearl, New York
 Brand, S. H. & Co. (Wire & Bristle), 99 W Monroe, Chicago, Ill.
 Bromwell Brush & Wire Goods Co., 612 W 6th, Cincinnati, O.
 Brown Cotton Gin Co., New London, Conn.
 Buchel Machine Works (Steel Wire for Cleaning Filter Presses, Centrifugals, Machinery, etc.), 827 Conit, New Orleans, La.
CINCINNATI MFG. CO. (Steel), 1243
 W 6th, Cincinnati, O. (See adv. index, end of book)
 Dennin's Sons, 6th av & 20th, Troy, N. Y.
 Felton, S. A. & Son Co., Manchester, N. H.
 Flint, Warren F. (Steel), 103 Merrimac, Boston, Mass.
 Foot Mfg. Co., 36 Germania av, Jersey City, N. J.
 Heilman Machine Works, Evansville, Ind.
 Indianapolis Brush & Broom Mfg. Co. (Rattan Mixed), 30 Brush, Indianapolis, Ind.
 Karl, N. J., 168 N Water, Rochester, N. Y.
 Lay, Joseph & Co., Ridgeville, Ind.
 Ludlow-Saylor Wire Co., St. Louis, Mo.
 Mason Brush Works, Worcester, Mass.
 Mulholland, William, 80 Lafayette, New York
 Murphy, Leavens & Co., 28 Exchange, Boston, Mass.
OSBORN MFG. CO. (Railroad Brushes),
 5401 Hamilton av, N. E., Cleveland, O. (See adv. index, end of book)
 Packard, A. & Co., 166 Commercial, Boston, Mass.
 Pilley Packing & Flue Brush Mfg. Co., 606 S 3d, St. Louis, Mo.
 Pollock Brush Co., Easton, Pa.
 Rice Mfg. Co. (Wire), New Durham, N. H.
 Riddiford Bros. (Specialty Machine Brushes), 251 Randolph, Chicago, Ill.
 Rochester Brush Mfg. Co., 419 St. Paul, Rochester, N. Y.
SMITH, J. D. FDY. SUPPLY CO., 1581
 Columbus rd, N W, Cleveland, O. (See adv. index, end of book)
 Thayer, P. E. & Co., Pawtucket, R. I.
 Thull, Charles D., 150 N 3d, Phila., Pa.
 Voelker, Philip L., Providence, R. I.
 Warner, Wm. E. & Co., 136 Centre, New York
WRIGHT WIRE CO. (Steel Wire),
 Worcester, Mass. (See adv. index & branch offices, end of book)

*Brushes (Graphite)

DIXON, JOS. CRUCIBLE CO., Jersey
 City, N. J. (See adv. index & branch offices, end of book)
 Western Electric Co., 259 S Clinton, Chicago, Ill., & 57 Bethune, N. Y.

Brushes (Hot Water Heater)

Flint, Warren F. (for Sectional Heaters), 103 Merrimac, Boston, Mass.
 Browne, F. W. (Wire), Farmington, N. H.
 Mulholland, William, 80 Elm, New York
OSBORN MFG. CO. (Wire, Bristle or Fibre), 5401 Hamilton av, N. E., Cleveland, O. (See adv. index, end of book)
 Pilley Packing & Flue Brush Mfg. Co. (Wire), 606 S 3d, St. Louis, Mo.

Brushes (Marking)

Langill Fountain Pen & Brush Co. ("Langill" Fountain Pen & Brush), 19 Front, New York
 Universal Fountain Brush Co. ("Ideal" Fountain), 100 E 129th, New York

Brushes, Paint, Varnish, Etc.

Adams, J. J. & Co., 128 Greenpoint av, Brooklyn, N. Y.
 Bradley & Smith, 251 Pearl, New York
 Bromwell Brush & Wire Goods Co., 612 W 26th, Cincinnati, O.
 Burton, A. E. & Co., Boston, Mass.
CINCINNATI MFG. CO., 1243 W. 6th, Cincinnati, O. (See adv. index, end of book)
 Cleveland Window Glass Co. (Special for Paint & Varnish), Cleveland, O.
 Claassen, F. H., 1421 Main, Cincinnati, O.
 Dennin's, O. Sons, 6th av & 20th, Troy, N. Y.
 Dennison, Owen & Sons, Lansingburg, N. Y.
 Devoe, F. W. & T. C. Reynolds Co., 101 Fulton, New York
 Dilley, Wm., 192 Clark, Chicago, Ill.
 East Columbia Brush Co., Columbia, Pa.
 Felton, S. A. & Son Co., Manchester, N. H.
 Flynn Bros., 5th & 11th av, Troy, N. Y.
FRENCH, SAMUEL H. & CO., 4th & Callowhill, Phila., Pa. (See adv. index, end of book)
 Gerts, Lombard & Co., 208 Randolph, Chicago, Ill.
 Guinder, Chas. G. & Co., Baltimore, Md.
 Hanlon & Goodman, 270 Pearl, New York
 Looby, Wm. H., Centerbrook, Conn.
 Lucas, Johu & Co., 4th & Race, Phila., Pa.
 Martin's, J. M. C. Sons, 102 Fulton, New York
 Miles Bros. & Co., 102 Fulton, New York
 Mitchell, Edwin, 273 Pearl, New York
OSBORN MFG. CO., Cleveland, O. (See adv. index, end of book)
 Packard, A. & Co., 166 Commercial, Boston, Mass.
 Pushee, Jno. C. & Sons, Randolph & Harrison av, Boston, Mass.
 Ramus, C. F. W., 125 Putnam, East Boston, Mass.
 Rosenthal, H. & Bro., 420 W B'way, New York
 Rubberset Brush Co., Newark, N. J.
 Smith, J. Finley & Son, 117 Chambers, New York
 Thull, Chas. D., 150 N 3d, Phila., Pa.
 Thayer, P. E. & Co., Pawtucket, R. I.
 True Bros., Portland, Me.
 United Brush Mfrs., 21 Park pl, N. Y.
 United Brush Supply Co., 238 Arch, Phila., Pa.
 Washburn, The Ira D. Co., 1008 Central av, Cincinnati, O.
 Whiting, Jno. L. & Son Co., 690 Harrison, Boston, Mass.
 Wolfe Brush Co., 511 Wood, Pittsburg, Pa.
 Wooster Brush Works, Wooster, O.

Brushes (Platers', Polishers', Etc.)

Foot Mfg. Co. (Bristle & Wire Lathe, etc.), Jersey City, N. J.
 Gesswein, F. W. Co. (Wire, Bristle, etc., Tampico Goat Hair), 39 John, New York
OSBORN MFG. CO., 5401 Hamilton av, N. E., Cleveland, O. (See adv. index, end of book)

Brushes (Railroad)

OSBORN MFG. CO. (All Kinds), 5401 Hamilton av, N. E., Cleveland, O. (See adv. index, end of book)
 Thum, Chas. D., 150 N 3d, Phila., Pa.
 Wolfe Brush Co., 511 Wood, Pittsburg, Pa.

Brushes (Sheet Metal)

Chapin, Chas. E., 27 Thames, N. Y.
 Eureka Tempered Copper Works, Northeast, Pa.
 Hobart Electric Mfg. Co., Troy, O.
 Phila. Electrical & Mfg. Co., 2011 Market, Phila., Pa.
WALSH, JNO. F. CO. ("K. & W.") Dynamo, Pittsfield, Mass. (See adv. index, end of book)
 Western Electric Co., 259 S Clinton, Chicago, Ill., & 57 Bethune, New York
 Wirt Electric Co., Gtn & Sedgely avs, Phila., Pa.
 Zogg, Nicholas, 730 E 143d, New York

Brushes (Spiral Twist)

CINCINNATI MFG. CO., 1243 W 6th, Cincinnati, O. (See adv. index, end of book)
 Foot Mfg. Co. (Bristle for Gunsmiths, Bottles, etc.), Jersey City, N. J.
OSBORN MFG. CO., Cleveland, O. (See adv. index, end of book)

***Brushes (Steel Wire)**

Dean, Hy. E. & Co., Worcester, Mass.
OSBORN MFG. CO. (All Kinds), 5401 Hamilton av, N. E., Cleveland, O. (See adv. index, end of book)

Brushes (Stencil)

Adams, J. J. & Co., 128 Greenpoint av, Brooklyn, N. Y.
 Bradley & Smith, 251 Pearl, New York
 Hanlon & Goodman, 270 Pearl, New York
 Langill Fountain Pen & Brush Co. ("Langill" Fountain Pen & Brush), 19 Front, New York
 Martin's, J. M. C. Sons, 102 Fulton, New York
 Mitchell, E., 273 Pearl, New York
OSBORN MFG. CO., Cleveland, O. (See adv. index, end of book)
 Smith, J. F. & Son, 117 Chambers, New York
 Universal Fountain Brush Co. ("Ideal" Fountain), 100 E 129th, New York

***Brushes (Whitewash)**

CINCINNATI MFG. CO., 1243 W. 6th, Cincinnati, O. (See adv. index, end of book)

***Brushes (Window)**

CINCINNATI MFG. CO., 1243 W. 6th, Cincinnati, O. (See adv. index, end of book)
OSBORN MFG. CO., Cleveland, O. (See adv. index, end of book)

Brushes (Woven Wire)

Barkeley Electric Mfg. Co. ("Sparkless"), Middletown, O.
 Chapin, Chas. E. ("Chapiu"), 27 Thames, New York
 Crown Woven Wire Brush Co., Salem, Mass.
 Eureka Tempered Copper Works, North East, Pa.

GENERAL ELECTRIC CO., Schenectady, N. Y., & 44 Broad, N. Y. (See adv. index & branch offices, end of book)
 Goldmark, James (German-American), 67 Cortlandt, New York

Hobart Electric Mfg. Co., Troy, O.
 Linze Electrical Supply Co., 1141 Olive, St. Louis, Mo.

McMurtry, Jas. E. & Co., 749 N Park av, Chicago, Ill.
 Ohio Brass Co., Mansfield, O.
 Ohio Electric Specialty Mfg. Co., Troy, O.
 Perfection Supply Co. (Dynamo), 621 B'way, New York

Philadelphia Electrical & Mfg. Co., 2011 Market, Phila., Pa.

Western Electric Co., 259 S Clinton, Chicago, Ill., & 57 Bethune, N. Y.

Buckets (Asphalt Measuring)

SCHOLL, JULIAN & CO., 126 Liberty, New York. (See adv. index & branch offices, end of book)

***Buckets (Automatic)**

HAYWARD CO., THE, 99 Cedar, New York. (See adv. index, end of book)

Buckets (Bottom Dumping)

AKRON CULTIVATOR CO., Akron, O. (See adv. index, end of book)

Cyclopean Company ("Cyclopean" Harold's Patent), 30 Franklin, Brooklyn, N. Y.
 Cyclopean Iron Works Co. ("Cyclopean" Jones' Patent), Jersey City, N. J.

Focht's, Geo. Sons, Hoboken, N. J.
 Hains Concrete Mixer Co. ("Hains" Concrete), McGill bldg, Washington, D. C.

HAYWARD CO., THE, 99 Cedar, New York. (See adv. index, end of book)

McMyler Mfg. Co., 1799 Columbus rd, Cleveland, O.

North Penn Iron Co., 3d & Venango, Phila., Pa.

Stuebner, G. L. Iron Works ("Excelsior"), 12th & Vernon av, Long Island City, N. Y.

Union Iron Works, Hoboken, N. J.

WILLIAMS, G. H. CO., 1513 Rockefeller bldg, Cleveland, O. (See adv. below)

Buckets (Clam Shell)

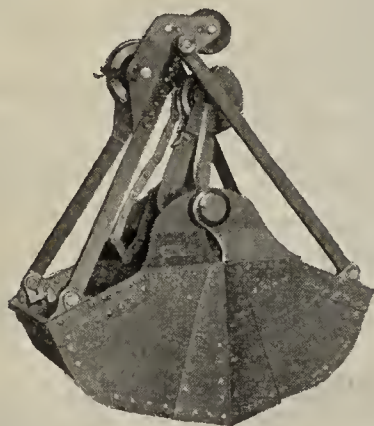
Browning Engineering Co., Cleveland, O.
CARLIN'S, THOS. SONS CO., 1300 River av, Allegheny, Pa.

DOBBIE FOUNDRY & MACHINE Co., Main Office & Works, Niagara Falls, N. Y. (See adv. index & branch offices, end of book)

Excelsior Iron Works, 89 N Clinton, Chicago, Ill.

Exeter Machine Works, Pittston, Pa.

Haiss, Geo. Mfg. Co. (for Handling Coal, Sand, etc.), 363 Rider av, New York



THE WILLIAMS FAIBRETTE CLAM SHELL BUCKET

BUILT ENTIRELY OF STEEL
 MOST DURABLE BUCKET EVER MADE
 BEST DIGGER ON EARTH

THE G. H. WILLIAMS CO., Rockefeller Building,
 CLEVELAND, O., U. S. A.

HENDRICKS' Commercial Register

Leads the Procession
of Publications in the
≡March of Trade≡

Among Architects, Builders, Contrac-
tors, Engineers, Purchasing Agents of
Railroads, Mills, Mines, Factories and
Supply Houses

Because it is the most complete Buyers'
Reference and the most profitable
Advertising Medium.

Use Hendricks' COMMERCIAL
REGISTER



Write for particulars of free classifications.

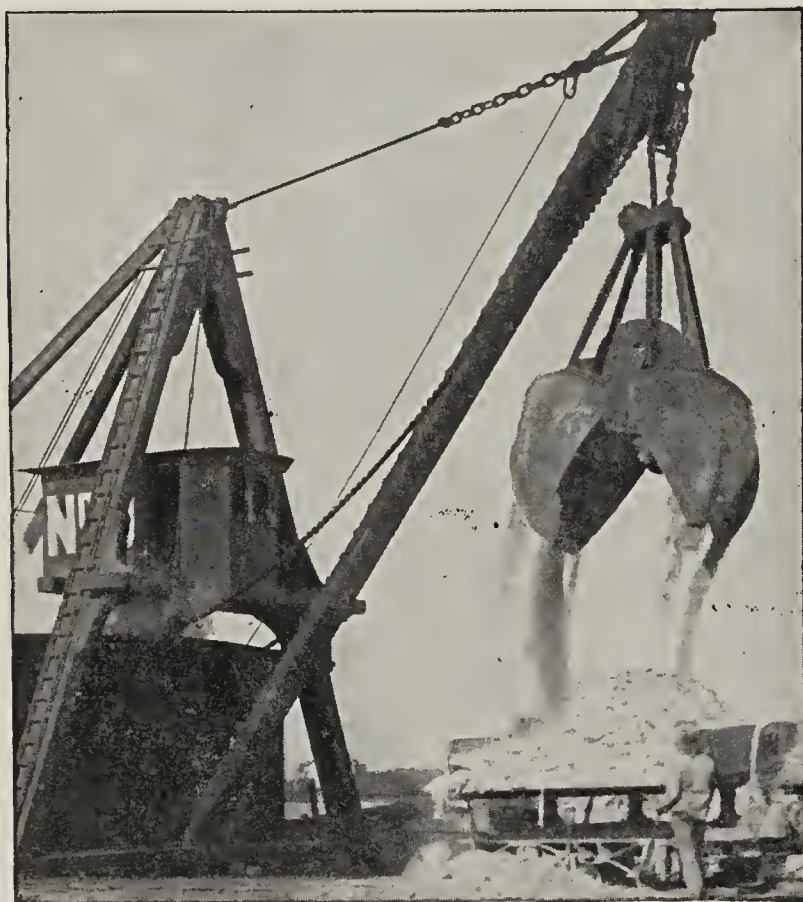


HAYWARD BUCKETS



BOTH

ORANGE PEEL and CLAM SHELL
are suited to every variety of Digging and
Rehandling of Materials



We issue a Catalogue
which tells all about
Buckets and many
different types of Ma-
chines by which they
are operated.

SEND FOR A COPY

THE
HAYWARD COMPANY

97 to 103 CEDAR STREET, NEW YORK, N. Y.

HAYWARD CO., THE, 99 Cedar, New York. (See adv. index, end of book)
 Industrial Works, Bay City, Mich.
 Interstate Engineering Co., Bedford, O.
 Kiesler Co., 68 Pratt, Chicago, Ill.
 Link Belt Co. (Self Filling), W 39th cor Stewart av, Chicago, Ill., & 299 B'way, New York
 McMyler Mfg. Co., 1799 Columbus rd., Cleveland, O.

Macbeth Iron Co. ("Swedenborg"), W Center & Winslow, Cleveland, O.

MEAD-MORRISON MFG. CO. (Automatic Steam Crabs), Cambridge (Boston), Mass., & 11 B'way, New York. (See adv. index & branch offices, end of book)
 Murphy & Donnelly Boiler Co., 120 Elm, Cleveland, O.

North Penn Iron Co., 3d & Venango, Phila., Pa.
 Obenberger, J. Co., 123 Barclay, Milwaukee, Wis.

Quintard Iron Works Co. ("Arnold" Pneumatic), 742 E 12th, New York
 Smith, Theo. & Sons Co., ft of Essex, Jersey City, N. J.

WELLMAN-SEAEVER-MORGAN CO. ("Hullett"), Cleveland, O., & Akron, O. (See adv. index, end of book)

WILLIAMS, G. H. CO. ("Fairvett"), Rockefeller bldg, Cleveland, O. (See adv. on preceding page)

Buckets (Coal & Ore)

(See also Tubs, Hoisting & Dumping.)

AKRON CULTIVATOR CO., Akron, O. (See adv. index, end of book)

Alliance Machine Co. (Automatic), Alliance, O.
ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

Aurora Boiler Works (Inc.), Aurora, Ill.

BARTLETT, C. O. & SNOW CO. Cleveland, O. (See adv. index, end of book)

Browning Engineering Co., Cleveland, O.

Chain Belt Co., 766 Park, Milwaukee, Wis.

Clark, W. J. Co., Salem, O.

Davis, F. M. Iron Works Co., Denver, Colo.

Denver Engineering Works Co., Denver, Colo.

DOBBIE FOUNDRY & MACHINE Co., Main Office & Works, Niagara Falls, N. Y. (See adv. index & branch offices, end of book)

DODGE MFG. CO., Mishawaka, Ind. (See adv. index & branch offices, end of book)

FAIRBANKS, MORSE & CO., Franklin & Monroe, Chicago, Ill. (See adv. index & branch offices, end of book)

Focht, Geo. Sons, 115 Adams, Hoboken, N. J.

Gregg Company (Ltd.), Newburgh, N. Y.

Haiss, Geo. Mfg. Co., 141st & Rider av, New York

HAYWARD CO., THE, 99 Cedar, New York. (See adv. index, end of book)

Hendy, Joshua, Machine Works (Ore), 38 Fremont, San Francisco, Cal.

Howe Scale Co. of Illinois, 1315 Wabash av, Chicago, Ill.

JEFFREY MFG. CO., Columbus, O. (See adv. index & branch offices, end of book)

Kiesler Co., 68 Pratt, Chicago, Ill.

Kilbourne & Jacobs Mfg. Co. (Dump), Columbus, O.

Leyner, J. Geo., Engineering Works Co., Littleton, Colo.

McMyler Mfg. Co., 1799 Columbus rd., Cleveland, O.

MEAD-MORRISON MFG. CO. (Automatic), Cambridge (Boston), Mass., & 11 B'way, New York. (See adv. index & branch offices, end of book)

Mine & Smelter Supply Co., Denver, Colo.

Murphy & Donnelly Boiler Co. (all kinds), 120 Elm, Cleveland, O.

Obenberger, Jno. Co. (Automatic Dumping), Milwaukee, Wis.

Phillips, Doup & Co., 56 Pearl, Brooklyn, N. Y.

Power & Mining Machinery Co., 52 William, N. Y. Works, Cudahy, Wis.

SCAIFE, WM. B. & Sons CO., 221 1st av, Pittsburgh, Pa. (See adv. index, end of book)

Seidel, Robert D., Reading, Pa. (book.)

Steubner, Geo. L. Iron Works (Self Dumping & Righting), 12th & Vernon av, Long Island City, N. Y.

Thomson & Boyle Co., Los Angeles, Cal.

Traylor Engineering Co., 114 Liberty, New York. Works: Allentown, Pa.

Union Iron Works, Hoboken, N. J.

Vulcan Iron Works, Wilkes-Barre, Pa.

WILLIAMS, G. H. CO., 1513 Rockefeller bldg, Cleveland, O. (See adv. on preceding page)

*Buckets (Concrete, Contractors')

AKRON CULTIVATOR CO., Akron, O. (See adv. index, end of book)

*Buckets (Drag)

WELLMAN-SEAEVER-MORGAN CO. ("Dole"), Cleveland, O., & Akron, O. (See adv. index, end of book)

WILLIAMS, G. H. CO., 1513 Rockefeller bldg, Cleveland, O. (See adv. on preceding page)

Buckets (Dredging & Excavating)

CODD, E. J. CO., 700-708 S. Caroline, Baltimore, Md. (See adv. index, end of book)

HAYWARD CO., THE, 99 Cedar, New York. (See adv. index, end of book)

JEFFREY MFG. CO., Columbus, O. (See adv. index & branch offices, end of book)

Kiesler Co., 68 Pratt, Chicago, Ill.

McMyler Mfg. Co., 1799 Columbus rd., Cleveland, O.

Power & Mining Machinery Co., 52 William, New York. Works: Cudahy, Wis.

SCAIFE, WM. B. & SONS CO., 221 1st av, Pittsburgh, Pa. (See adv. index, end of book)

Smith, Theo. & Sons Co., ft of Essex, Jersey City, N. J.

Union Iron Works, Hoboken, N. J.

WELLMAN-SEAEVER-MORGAN CO. ("Hullett" Excavating), Cleveland, O., & Akron, O. (See adv. index, end of book)

White, Robt. Engineering Wks., ft. of Columbia, Brooklyn, N. Y.

WILLIAMS, G. H. CO., 1513 Rockefeller bldg, Cleveland, O. (See adv. on preceding page)

Buckets (Elevator)

Avery Stamping Co. ("Never-Break" Seamless Steel), Lake c Coe, Cleveland, O.

BARTLETT, C. O. & SNOW CO. French, Cleveland, O. (See adv. index, end of book)

Buhl Malleable Co., Detroit, Mich. (of book)

Caldwell, H. W. & Son Co. (Seamless Steel), 7th & Western av, Chicago, Ill.

Clark, W. J. Co., Salem, O.

Chain Belt Co. (Malleable), 766 Park, Milwaukee, Wis.

Cleveland Elevator Bucket Co., 104 St. Clair, N. W., Cleveland, O.

DODGE MFG. CO., Mishawaka, Ind. (See adv. index & branch offices, end of book)

Focht's Geo. Son, Hoboken, N. J.

Great Western Mfg. Co., Leavenworth, Kan.

Greenwald, I. & E. Co., 720 E. Pearl, Cincinnati, O.

Grotenroth, Fred., 111 W. Water, Milwaukee, Wis.

Hendrick Mfg. Co., Carbondale, Pa.

Iron Clad Mfg. Co., 204 Varet, Brooklyn, N. Y.

JEFFREY MFG. CO., Columbus, O. (See adv. index & branch offices, end of book)

Link Belt Co., W. 39th cor. Stewart av, Chicago, Ill., & 299 B'way, New York

Machwirth Bros Co., 201 Oak, Buffalo, N. Y.

Marseilles Mfg. Co., Marseilles, Ill.

Mey Chain Belting Engineering Works, 34 Washington, Buffalo, N. Y.

MINNEAPOLIS STEEL & MACHINE Co., Minneapolis, Minn. (See adv. index & branch offices, end of book)

Moline Malleable Iron Co., St. Charles, Ill.

Nordyke & Marmon Co., 1101 W Morris, Indianapolis, Ind.

Moore & Lorenz Co. ("Salem" for Grain), 816-822 Fulton, Chicago, Ill.

Pennsylvania Engineering Works, New Castle, Pa.

Power & Mining Machinery Co., 52 William, New York. Works: Cudahy, Wis.

ROBINS CONVEYING BELT CO., 19 Park row, New York. (See adv. index, end of book)

SCAIFE, WM. B. & SONS CO., 221 1st av, Pittsburgh, Pa. (See adv. index, end of book)

Schmahl, Jacob, 26 Lloyd, Buffalo, N. Y.

Skilling & Richards Mfg. Co., 127 Fulton, Chicago, Ill.

Taylor Iron & Steel Co., High Bridge, N. J.

Thornberg, H. L. & Co., 245 S. Jeff., Chicago, Ill.

Union Iron Works, Hoboken, N. J.

Union Iron Works (Inc.), Spokane, Wash.

Webster Mfg. Co., 1075 W 15th, Chicago, Ill.

WELLER MFG. CO., 124 E. North av, Chicago, Ill. (See adv. index, end of book)

Buckets (Fibre)

(See Pails, Fibre)

Buckets (Fire)

Atlantic Stamping Co. (Galvanized), Rochester, N. Y.

Cordley & Hayes (Paper), 172 Dnane, New York

Fairfield Rubber Co., Fairfield, Conn.

Gender & Paeschke Mfg. Co. (Galvanized Iron), Milwaukee, Wis.

Goodyear Rubber Co. (Rubber), 787 B'way, New York

Gutta Parcha & Rubber Mfg. Co. (Rubber), 126 Duane, New York

Hodgman Rubber Co. (Rubber), 806 B'way, New York

Hunt & Dorman Mfg. Co., 21 Bright, Cleveland, O.

Iron Clad Mfg. Co., 204 Varet, Brooklyn, N. Y.

Mineralized Rubber Co. (Rubber), 18 Cliff, New York

Safety Fire Extinguisher Co., 29 W 42d, New York

WILSON, F. CORTEZ & CO., 239 Lake, Chicago, Ill. (See adv. index, end of book)

*Buckets (Foundry)

OSBORN MFG. CO., 5401 Hamilton av, N. E., Cleveland, O. (See adv. index, end of book)

SMITH, J. D. FOUNDRY SUPPLY CO., 1581 Columbus rd., N. W., Cleveland, O. (See adv. index, end of book)

*Buckets (Gold Dredging)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

*Buckets (Grab)

Browning Engineering Co. (Automatic Square Type), Cleveland, O.

JEFFREY MFG. CO. (Self Filling), Columbus, O. (See adv. index & branch offices, end of book)

Buckets (Grease)

Gem Mfg. Co. ("Gem" Brazed Steel), Spruce av nr 33d, Pittsburgh, Pa.

Lane, C. L. ("Wooden"), E Swanzy, N. H.

*Buckets (Hoisting)

HAYWARD CO., THE, 99 Cedar, New York. (See adv. index, end of book)

Buckets (Hoisting & Dumping)

(See Tubs, Self-Dumping.)

Buckets (Orange Peel)

Browning Engineering Co., Cleveland, O.

Carlin's, Thos Sons Co., 1300 River av, Allegheny, Pa.

DOBBIE FOUNDRY & MACHINE CO., Main Office and Works, Niagara Falls, N. Y. (See adv. index & branch offices, end of book)

HAYWARD CO., THE, 99 Cedar, New York. (See adv. index, end of book)

Industrial Works, Bay City, Mich.

Interstate Eng. Co., Bedford, O.

McMyler Mfg. Co., 1799 Columbus rd., Cleveland, O.

MEAD-MORRISON MFG. CO. (Orange Peel Crabs), Cambridge (Boston), Mass., & 11 B'way, New York. (See adv. index & branch offices, end of book)

North Penn Iron Co., 3d & Venango, Phila., Pa.

Smith, Theo. & Sons Co., ft of Essex, Jersey City, N. J.

WELLMAN-SEAEVER-MORGAN CO., Cleveland, O., & Akron, O. (See adv. index, end of book)

WILLIAMS, G. H. CO., Rockefeller bldg, Cleveland, O. (See adv. on preceding page)

Buckets (Ore)

(See Buckets (Coal & Ore))

Buckets (Pump)

Cleveland Galvanizing Works, 392 Cooper, Cleveland, O.
Continental Rubber Works (Rubber), Erie, Pa.
Cronk & Carrier Mfg. Co. (Chain Pumps), Elmira, N. Y.
Diamond Rubber Co. (Rubber), Akron, O.
Republic Rubber Co., Youngstown, O.
Torrent Pump Co., Sebring, O.
Union Mfg. Co., New Britain, Conn.

***Buckets (Salt)**

WARSAW ELEVATOR CO., Warsaw, N. Y. (See adv. index & branch offices, end of book)

***Buckets (Sand Handling)**

HAYWARD CO., THE, 99 Cedar, New York. (See adv. index, end of book)

Buckets (Sap)

Briscoe Mfg. Co. ("O-Rib-O" Galvanized), Detroit, Mich.

Buckets (Scoop)

HAYWARD CO., THE, 99 Cedar, New York. (See adv. index, end of book)
McMyler Mfg. Co., 1799 Columbus rd., Cleveland, O.
North Penn Iron Co., 3d & Venango, Phila., Pa.

***Buckets (Scraper)**

HAYWARD CO., THE, 99 Cedar, New York. (See adv. index, end of book)

***Buckets (Self-Dumping)**

Focht's Geo. Son, Hoboken, N. J.
Kilbourne & Jacobs Mfg. Co. (Steel), Columbus, O.
WILLIAMS, G. H. CO., 1513 Rockefeller bldg, Cleveland, O. (See adv. index, end of book)

Buckets (Sewer)

AKRON CULTIVATOR CO., Akron, O. (See adv. index, end of book)
ANDERSON, W. H., TOOL & SUPPLY Co., 14 Macomb, Detroit, Mich. (See adv. index, end of book)
Iron Clad Mfg. Co., 204 Varet, Brooklyn, N. Y.
National Enameling & Stamping Co., 374 B'way, New York, & St. Louis, Mo.
Potter Mfg. Co., Indianapolis, Ind.
Stuebner, G. L. Iron Works, 12th & Vernon av, Long Island City, N. Y.
Stoutenborough, X., 277 Pearl, New York
Syracuse Chilled Flow Co. (Steel), Syracuse, N. Y.
WILLIAMS, G. H. CO., 1513 Rockefeller bldg, Cleveland, O. (See adv. index, end of book)

***Buckets (Slag)**

HAYWARD CO., THE, 99 Cedar, New York. (See adv. index, end of book)

***Buckets (Turn Over)**

HAYWARD CO., THE, 99 Cedar, New York. (See adv. index, end of book)

***Buckets (Well)**

EDWARDS MFG. CO. (Galvanized), Eggleston av. & 4th & 5th, Cincinnati, O. (See adv. index & branch offices, end of book)

Buckets & Pails (Collapsible)

Abercrombie & Fitch Co., 57 Reade st., New York
Duplex Folding Pail Co., 422 West 14th st., Goodrich, B. F. Co., Akron, Ohio
New York
Goodyear Rubber Co., 787 Broadway, New York
Gutta Percha & Rubber Mfg. Co., 126 Duane, New York
Hayward, S. F. & Co. ("Folding Buckets"), 20 Warren st., New York
Hodgman Rubber Co., 806 Broadway, New York

Mineralized Rubber Co., 18 Cliff st., New York
National India Rubber Co., Bristol, R. I.
Safety Fire Extinguisher Co., 29 West 42d st., New York

***Buckles (Back Band)**

Senoia Mfg. Co. ("Jones"), Atlanta, Ga.
STANLEY WORKS ("Samson" & "Stanley"), New Britain, Conn., & 79 Chambers, New York (See adv. index, end of book)

***Buckles (Bale)**

CARY MFG. CO., 19 Roosevelt, New York. (See adv. index, end of book)

***Buckles (Etched)**

SALO ART METAL CO. (High Grade), 462 E. 136th, New York (See adv. index, end of book)

Buckles (Wire)

North & Judd Mfg. Co. ("Anchor" Brand), New Britain, Conn.
Spencer Wire Co., Worcester, Mass.
Wire Novelty Mfg. Co., New Britain, Conn.

Buddles or Slime Tables (Revolving)

Power & Mining Machinery Co. (for Assay Office), 52 William, New York. Works Cudahy, Wis

Buffers (Board)

Harrington Cutlery Co. ("Dexter"), Southbridge, Mass.

Buffers (Car)

Gould Coupler Co., 1 W 34th, New York; Rookery bldg, Chicago, Ill. Works: Depew, N. Y.
National Car Coupler Co. ("National" Platform & "Hinsou" Friction), Monadnock blk, Chicago, Ill. Works: Converse, Ind.
Railway Appliances Co., Old Colony bldg, Chicago, Ill.

Buffers (Electric, Automobile)

Stow Mfg. Co., Binghamton, N. Y.

Buffers (Rubber)

BOSTON BELTING CO., 260 Devonshire, Boston, Mass. (See adv. index & branch offices, end of book)
Goodrich, B. F. Co., Akron, O.
Gutta Percha & Rubber Mfg. Co., 126 Duane, New York
National India Rubber Co., Bristol, R. I.
Revere Rubber Co., Boston, Mass.

Buffers (Seat Back)

Sterling-Meeker Co. (for Car Seats), 420 Ogden, Newark, N. J.

Buggies (Buhr-Stones)

Hasbrouck, J. J. & Co. ("Esopus"), Office & Quarries, New Paltz, N. Y.

Buggies (Charging)

Kilbourne & Jacobs Mfg. Co. (Steel Coke), Columbus, O.
Pennsylvania Engineering Works, New Castle, Pa.

Buggies (Coke & Ore)

Sheffield Car Co., Three Rivers, Mich.

***Buggies for Structural Steel, Etc.**

BETHLEHEM FOUNDRY & MACHINE Co., Front, South Bethlehem, Pa., & 149 B'way, New York (See adv. index, end of book)

Builders (Contracting)

(See also Contractors, General)

ALABAMA.

BIRMINGHAM—†Birmingham Building & Improvement Co., 2109 1st av
Birmingham Eng. & Construction Co., 8th alley & 4th

†Bostick, P. E., 1510 13th av. S.
†Burns, J. L., 6212 1st av, N. W'lawn
†Euler & Co., 1929 Av A
Flischer & White, Chalfoux bldg
†Gibson, Geo. A., & Co., 223 N. 21st
Griffith, Jno. & Son, 20th & 1st av
Hall, Chas. W., 2200 Morris
Hall, H. S., 1208 Louise av
Jemison, I. V., 28th & 1st av
†Krebs, A. J. Co., 1814 2d av
†Marshall, W. J., 416 N. 20th
Morgan, J. M. & Co., First National Bank
Scofield Co., 19th & Railway av
Smith, J. R. & C. J., Chalfoux bldg
†Stewart, Robt. F., 3805 6th av, A'dale
Sullivan & Long, 1104 Cotton av
†Thompson, T. C., & Bros., Title Guarantee Bldg.

DEMOPOLIS—†Klee, Geo. A.
GREENSBORO—†Straitton, J. A.
HUNTSVILLE—†Hutcheus, Chas. E.

MOBILE—*Arnold, G. F., Telegraph rd
Barnes, J. F. & Co., 158 N Royal
†Chamblin, G. A., 254 N Royal
†Discher, Geo. H., 156 Marine
Emery, W. I. & Co., 329 N Royal
†Emrich, J. P., 268 S Scott
†Fonde, Ray, 160 N Royal
Jett Bros. Contracting Co.
†Lee, W. P., 67 St. Michael
†McAdory, John, 14 St. Emanuel
Martin, Ernest E., Kilmarcock st
Osborne & Bekurs, 59 N Joachim
Smith, W. D., 211 S Warren
Sossaman, Robert C., 304 S Bayou
Thompson, W. W., 304 Marine
Ward, E. E., 204 S Broad
Watkins, H. P., 23 Herndou av

MONTGOMERY—†Anderson, I. O., 219 S Jackson
Blair, Algernon, Hill bldg
Bogacki, C. Y.
†Cook & Laurie Contracting Co. (Large), 212 N Lawrence

†Cox, W. N., 21½ Dexter av
Dobson, F. M.
Goric, D. F. & Son, 100 Bell
†Graves & Anderson, 117 Monroe
Hodgson & Hannon, 113 Sayre
†Hugger Bros., 18½ S Perry
Jones Moulded Stone Co., 204 N Lawrence
Keyton, A. J., 25 Burton av
Totherow, C. C. & Co., 109 N Decatur

PRATT CITY—†Culpepper, J. T.

ALASKA TERRITORY.

JUNEAU—†James, G. E.

ARIZONA.

PHOENIX—Brown, T. E.
†Campbell, C.
†Goff & Galpin
*Hauter & Briggs (Brick)
Merriam, L. S.
†Nolin, T. M.
O'Connell & Cottroll (Brick)

TUCSON—Monier, Q.

ARKANSAS.

FORT SMITH—Bercher, Leo., Wheeler av
Carney, L. G., 1209 N 11th
Elafsson, A., 922 Lexington
Hipple, T. H. & Son., 306 S 16th
May, W. F. & Co., 601 S 13th
Morgan & Spratt, 822 S 18th
O'Neal, L. S., 613 N 13th
Payne, R. L., 2403 Tilles
Reddick, T. T., 2701 Kinhead
Schleuter, Fred, 702 N 18th
Spencer & Spencer, 624 S 12th
Truschel, Jacob, 901 N 14th
Zimmerman, G. E. & Co., Park av

HOT SPRINGS—Aldrich, A. P.

Crim, Frank
Gibbs, T. W.
Hickson, Jno.

LITTLE ROCK—Braudt, Julius.
†Campbell, T. F., 2319 Center
Casey, W. R.
†Clark & Johnson, 119 Main
Collamore, L.

DOYLE & COMPANY
Contractors and Builders
1519-21 SANSOM STREET
PHILADELPHIA

LONG DISTANCE TELEPHONE CONNECTION



Jacob A. Zimmermann,

MASON, BUILDER

AND

General Contractor,

1358 Broadway, NEW YORK.

†Collins, E. T.
 †Fischer, E. J., 617 Chester
 Forlow, U. H.
 Holstegge, B.
 Kilne, Jno.
 †Lelfer, Geo., 1005 McGowan
 †McDowell, Wm., 212 W Markham
 Markling & Co., 1004 Main
 †Millard, A. J., 1409 Cumberland
 †Odom, John S., 1610 Jones
 Phillips, James
 †Powers, Patrick, 1402 Commerce
 †Schmelzer, John, 1122 Commerce
 Sherman, Thomas (Brick)
 †Slagle, C. B., 1011 Gaines
 †Smith, P. S.
 †Stalcup, Joseph, 1022 Cross
 Stanton, W.
 Wendler, M. O.
PARAGOULD—†McDonald, W. J.
PINE BLUFF—†Bruce, M. M.
 †Dutton, John
 Hilliard, Wm.
 †Holton, W. S.
 †Lanc, R. W.
 †Owens, Newton
VAN BUREN—†Allen, R. B.

CALIFORNIA.

ALAMEDA—†Chamberlain, W. C.
 †Clark, R. P.
 *Cory, B. F. (Brick & Stone), 2222 Buena Vista av
 †Delaney-Randlett Co.
 †Denke, A. R.
 †Dickson, J.
 †Farrell, S. J.
 †Foster, C. H. & Son
 †Frost, T. P.
 †Greene, J. N.
 †Harden, O. L.
 †Hardin, J. T.
 †Joyce, E. A.
 †Klein, G. H.
 †MacRae, Chas. W., 2315 Encinal
 †Victors, T.
 †Welss, H. J.
 †Young, J. H.
BAKERSFIELD—Hicock, F. W.
BERKELEY—†Amstey, H. W.
 Armstrong, F. E.
 †Banker, E. J.
 †Batten, W. R.
 †Bowers, H. F.
 †Bowers, J.
 †Bowers, L. T.
 †Britt, W. G.
 †Broad, A. H.
 †Bryant, C. R.
 †Clemensen, E.
 †Cross, A.
 †Dewey & Wright
 †Eastman, P. S.
 †Evers, C. A.
 †Givens, J. W.
 †Hay, A. T.
 †Holloway, G. K.
 †Hull, J. V.
 †Hutchinson, G. D.
 †Kidder & McCullough
 †Lawson, T. H.
 †Libbey, M. S.
 †Lindgren-Hicks Co. (Brick)
 †McGraw, W.
 †Martin & Graves
 †Moller, G.
 †Monroe, G. W.
 †Mortensen, M. F.
 †Mortimer, W. J. & Co.
 †Neal, J.
 †Nelson & Boldt
 †Peterson, H.
 †Robie, R. W.
 †Roust, A.
 †Sheridan, Phillip
 †Simmonds, L. A.
 †Smith, C. O.
 †Sorensen, W.
 †Stone, E. P.
 †Weymouth, A.
 †Whitney, H. L. (Brick), 2325 Haste
 †Young, W. A., Milvia nr Blake
FRESNO—Anton, C. B.
 *Bettridge, W. M.
 †O'Brien, A.
 †Rushin, W.
 †Sibley, C. C.
GILBOY—Brook, B. F.
GRASS VALLEY—Body, W. C. D. & Bro.
HANFORD—Trewitt, W. D.

LOS ANGELES—†Acme Building Co., Stimson bldg
 Amaalsteen, Ed.
 Anderson, Robert J., Trust bldg
 Ashby Building Co., Stimson bldg
 *Ashbridge, T. A. (Brick), 1020 W 1st
 Atkinson, J. F., Byrne bldg
 Borton, C. F. & Co., Byrne bldg
 Bralnerd, H. J., Chamber of Commerce
 Brown, Robert A., Byrne bldg
 Bryant, Oliver C., 1503 Magnolia av
 Builders Exchange, Stimson bldg
 Butcher, Jas. M., 2309 Hoover
 *Cady, W. C. (Brick), 914 E 39th
 †Carr, G., 416 W av 56
 Chicago Home Building Co., Henne bldg
 Co-Operative Home Building Co., Severance
 Corlett, Robert M., 514 W 5th bldg
 *Cossar, Wm. C. (Brick), 1009 Bridge
 Crandall, W. N., 310 Stimson
 Crowell, Weymouth, Pacific Elec. bldg
 Cumming & Drain
 Dawson, J. B., Pacific Elec. bldg
 Dedrichs, Jos., Citizens National Bank bldg
 Eldridge, S. T., Pacific Elec. bldg
 *Engstrom, F. O. Co. (Brick), E 5th c Colyton
 Enterprise Construction Co., 316 Commercial
 *Fariss, E. A. (Brick), 1602 Griffith av
 Gallagher, G. H. & Co., Byrne bldg
 Geise & Metzger, 580 Central
 Gilbreath, J. W., 354 S Hill
 Grannis, R. W., 112 E 17th
 Gribling, A. L.
 Harbor, George
 Hareus, T. & Co., 315 W 16th
 Heineman-Smith Co., O. T. Johnson bldg
 Highland Park Building Co., 5938 Pasadena
 Hopper, E. L. & Son, Laughlin bldg
 Hurwitz, M. Bryson bldg
 †Johnson, W. V., 309 W 7th
 Klstner & Lewellin, 537 Center
 †Knerr, H. E., Bryson bldg
 *Kneer, H. E. (Brick), Bryson bldg
 †Kubach, C. J. Co., Stimson bldg
 Los Angeles Building Co., Con. Life bldg
 *Los Angeles Cons Co. (Brick), 702 S Spring
 McGuire, H. T. & Son, 1521 Felicia
 Marshall, S. R. Co., 509 Grosse
 Maule, F. W., 222 Laughlin
 Mitchell, J. Buris & Co., Douglas bldg
 Morris Co.
 National Building Co., 1434 S Main
 Nenstadt, Robert G., Stimson bldg
 Ogden, Stephen, Mason Opera House
 Pioneer Building Co., Bradbury bldg
 Pittsburg Construction Co. (Large), F. P. Fay bldg
 Pratt, G. T., 440 E 3d
 Richards & Crossland, 1712 S Main
 Roberts Construction Co., 207 ct Nat'l bldg
 Rucher, Elmer E Co.
 Seelye, O. L. & Co., Citizens National Bank
 Smith, Ross W.
 †Truitt, W. L., Douglass bldg
 Tyndall, J. Jefferson
 *Walker, O. A. (Brick), 1152 Jasmine
 *Weesner, C. (Brick), Pacific Elec bldg
 Western Building Co., Chamber of Com.
 †Weston Building Co., Braiy bldg bldg
 Weston, L., Douglass bldg
 Whiting, Thompson & Co., Bryson bldg
 Williamson, E. S., Grant bldg
 Williams Construction Co., Thorpe bldg
 Wright, Thos. A., Crockett & Ohio
 Yard & Hichborn, Citizens National Bank bldg
OAKLAND—†Allen, B. K., 718 20th
 †Allyn, B. C., 820 Isabella
 †Anderson, W. W., 461 Chestnut
 Belden Building & Inv. Co., 112 B'way
 †Brophy, P. J., 2148 West
 †Burpee, J. S., 1401 Castro
 †Burr, M. G., 4327 Montgomery
 †Caldwell, J. C., 585 28th
 †Davis & Son, E. 28th & 9th av
 †Dingwell Bros., 1110 B'way
 †Doss, C. A., 1014 E. 15th
 †Forbes, W. A., 110' San Pablo av
 †Gilman, A. E., 1024 San Pablo av
 †Greene, S. A. Co., 1116 Franklin
 †Griffith, W. A., 1082 66th
 †Gunn, J. F., 823 Isabella
 †Haskell, B. W., 2041 Linden
 †Isbell, H. E., 1529 West
 †Johnson, O. P., 1425 8th av
 †Jones, F. G., 1113 Webster
 †Knight, F. W., 543 22d
 †Law, T. R., 528 18th
 †Leiter, E. T., 3615 West
 †Leiter, Geo. L., 3700 West
 †Littlefield, C. A., 581 Sycamore
 Logan, W. A. R., Beacon bldg
 Loose, A. C., Beacon bldg

McCoy Bros., 415 11th
 †McDonald, J. B., 764 19th
 Middleton, J. H., 2215 B'way
 Milwain, A., 1315 Franklin
 Mullanc, J. P., 2029 Filbert
 †Nichols, C. E., 1060 B'way
 †Nichols, L. L., 1060 B'way
 Nichols, R. F., 1151 Santa Fe av
 †Pinkerton, P. H., 555 22d
 Ransdell & Durgin, 4959 Tel. av
 Roeth, C., 4125 Piedmont av
 †Schaechtele, W., 993 60th
 †Shrader, J. F., 522 16th
 †Sillsbee, F. J., 858 20th
 Simmons, G. N., 440 38th
 †Simpson, J. H., 689 Brockhurst
 †Teller, P., 1931 59th
 Thomson, A., 222 San Pablo av
 †Underwood, Ira A., 5971 Grove
 †Wilkins, C. W., 1367 B'way
 Wilson, S. H. & Son, 1064 Franklin
PALO ALTO—Bentley, Geo. H.
PASADENA—†Blow Construction Co., St. Louis bldg
 Brandt, A. C., 394 Adella
 Bromley, A. J., 55 Michigan
 Crawford, Chas., 689 Locust
 Crowell, Wm. C., 341 N Marengo av
 Curry, Jno. J., 1374 Kirkwood
 †Dawson & Daniels, 196 W Colorado
 Degryse, Desire, 1119 Westmoreland
 Donell, E. C., 832 E Mountain
 †Ellsworth & Co., 399 S Los Robles av
 Emery, F. H., Ellis nr Maple
 Erickson, Jno., 864 N Orange Grove
 †Hess, Wm. J., 367 S Fair Oaks av
 Frame, C. J., 7 N Wionana
 Furlow, B. D., S Pasadena
 Goodwin, D. E., 807 N Wilson av
 Hall, Peter, 769 N Marengo
 Hauser, W. T., 280 Maine
 *Holloway, Andrew (Brick), 17 S Raymond
 Houseman, J. T., 1120 Morton
 Hunter, W. A., 106 Dayton
 Jackson, May, 140 S Madison
 King, H. A., 634 N Mentor
 †Kloch, A. R., 300 N Los Robles av
 Lewis, W. R., 51 S Delacy
 Lyman, E. W., 345 N Mentor
 McCarty, W., S Pasadena
 *McCoy, H. G., 225 Lake av
 McPherson, Harry A., 1857 Klrkwood
 Merritt, H. C., Olcott pl
 Miller, Chas., 329 N Mentor
 Palmer, B. C., 100 Emerson
 Parmelee, P. L., 335 N Wilson
 Peters, D. A., 1075 Summit av
 Powell, F. A., 387 N Chester
 Reed, G. W., 1905 Summit av
 Renton, D. M., 112 S Vernon av
 Rhemer & Whetstine, 455 N Catalina
 Ross, H. H., 1969 N Raymond
 †Slavin, Matthew
 *Smith, E. H. (Brick), 139 Franklin av
 Sperry, Eli., S Pasadena
 Standing, Josiah, 1050 Denver
 †Stephens, A. J., 360 S Catalina av
 Tate, J. T., 494 S Raymond
 †Tirrell, Albert B., 796 Nel Molino av
 Vall, Elmer, McHarry & Hill
 Whetstine, Daniel, 163 N Stevenson
 Whetstine, W., Maple & Stevenson
 Whyte, Geo. H., 900 N Orange Grove
 Williams, L. C., 512 Winona
 †Wyman, E. D., 535 Oakland av
POMONA—Davis, Alfred
 Hanson, Henry
 Hanson & McCain
 †Milton, W. J.
 †Mishler, H.
 Nugent, Jack
 Proctor, C. H.
 †Rolph, S. J.
 Sanborn, J. M.
REDDING—Bennett, D. F.
 Herron, M. W.
 Scammon, F. C.
 Wright, J. E.
REDLANDS—Lynn, F. E.
 Storey, F. A.
 Taylor, A. E.
RIVERSIDE—†Allison, J. L.
 †Bell, N. R.
 †Boggs, A. W.
 †Brown, T. P.
 †Carlisle, F. M.
 †Clendenen, J. A.
 †Cockran, David G.
 †Cox, F. J., 247 E 10th
 †Lawrence & Son
 †Lindsey, B. P.
 †Linson, Jeremiah
 †McCutcheon, Thos.
 †McFarlane, Jno., 1042 7th

†McLeod, D. J.
 †Osborne & McGrath
 †Peter, Fred K
 †Pillar, S. L.
 †Stanley, J. C., 1107 Cedar
 †Todd, C. A.
 †Waldman, L. C.

SACRAMENTO—Ahl, G. E., 2021 P
 Braun, P. J., 1516 22d
 Callahan, R. E., 1914 8th
 Contell, J. H., 2028 J
 DeRoza, A., 2015 11th
 Detro, J. C., J st rd
 †Donovan, J. P., 920 M
 Greenwalt, L. H., 3222 Magnolia av
 †Haley, J. W., 2014 10th
 Harris, J. E., 1013 10th
 †Harvie, N., 2204 O
 Hennessey, Wm. H., 1830 L
 Herndon, Geo. L. (Brick)
 †Hook, Wm. & Son, 729 H
 Houston, J. G., 2705 O
 Hughes, Jas. T., 2308 N
 †Ikeda, G. M., 1004 4th
 †Jennings, H. L., 1022 K
 Johnson, I. L., 1802 L
 Krenzberger, Lucas (Brick), 1622 K
 Lowry, Feltou, 1208 16th
 Lusk, Walter, 314 O
 †Mackey, S., 88 M St rd
 †Mathews, C. J., 1111 9th
 †McKay, G. W., 1013 10th
 †McKenzie, M. F., 1013 10th
 †Mead, W. H., 1121 9th
 †Meiss Bros, 1412 K
 Millard, H. D., 2517 O
 Moore, Chas., 814 17th
 †Muddox, R. H., 1417 10th
 †Murcell, W. T., 1013 10th
 Murray, George, 1716 M
 Norris, W. W., 621 18th
 Orr, J. L., 2408 I
 Renfro, W. J., 2610 I
 Shadinger, M. H., 2101 10th
 Shaffer, C. F., 1013 10th
 †Silva, Jno. A., 718 M
 Simmonds, W., 1013 10th
 Slater, G. W., 1111 28th
 Slaughter, Wm., 411 M
 Smith, R. M., 2017 18th
 Touhey, C. E., 1510 K
 Touhey, Jas. 1510 K
 Van Zee, A., 2707 I
 Walker, H. C., 2920 J
 Warner, Leonard, 910 5th
 Warren, Wm. H., 1728 E
 †Wynn, H., 1022 27th

SAN BERNARDINO—Buckhart, Chas.
 Mooney, J. C.
 Rice, C. F.
 Leshar, J. W.
 Peck, O. B.

SAN DIEGO—†Andrew Bros.
 †Asay, Arthur
 †Baldridge, W. C.
 Boeckh, Carl
 †Brown, Steve (Bricklayer)
 †Cassidy & Moore
 †Castle, J. E.
 †Corcoran, J. T.
 †Cox, C. C.
 †Engelbretsen, Chas.
 †Engelbretson & Nelson
 †French, A. K.
 Hiatt, M. B.
 †Houts, C. W.
 †Hunter, C. W.
 †Jennings, T. A.
 †Jobbitt, Thomas
 †Kneale, Thomas
 †Landis, H. M.
 †Lundgren, J. E.
 †Mendoza, Abraham
 †Neale, Henry
 †Necochea, J. M., de
 †Nihell, Lawrence
 †Noble, T. P.
 †Pefley, Ernest
 †Porter & Stackhouse
 †Raymond, J. D.
 †Schancl Bros.
 †Simpson-Pirie Granite Co.
 †Sterling, James
 †Thompson, C. D.
 †Trepte, Moritz
 †Weldou, J. T.

SAN FRANCISCO—Allen Bros. & Townsend, 22 Market
 Appelbaum, S. & Co., 936 McAllister
 †Atlantic Gulf & Pacific Co., Monadnock bldg

Bagge-Wilkie Co., 1273 Golden Gate av
 Bagge, Wm. H., 3528 Sacramento
 Baldwin Building Co., 1514 O'Farrell
 Bateman, J. C., Monadnock bldg
 †Beck, Adam (Brick), 2058 Mission
 Behm, Joseph & Co., 698 Hayes
 Bergren, L. G., 209 Sanchez
 Blume, C. A., 775 14th av
 Bonnesen, Otto, 135 Olive av
 Boyer & Son, 2377 Pine
 †Brady, Matthew V., 672 Waller
 †Broadwood, Jno. A., 863 Hayes
 †Brotherton, Robert, 1721 Vallejo
 Building Construction Co., 2053 Sutter
 †Butler, Thos., Custom House
 Button, I. V., 533 14th
 Campbell, James Co., 55 Brady
 †Campbell, Jno. V., 2131 Union
 Campbell, Mark & Son, 729 Webster
 Carlson, O. E., 315 Castro
 Chonette, Otto W., 2003 Pine
 Christian, Thomas, 540 Haight
 Clark, F. N., 1736 Laguna
 Coast States Construction Co., 517 Market
 Coburn, I. W., 456 Daboe av
 Concanuon, W. N., 9 Mission
 Cook & Young, 111 O'Farrell
 Currie & Currie, 1215 3d av
 †Day's, Thos. H., Monadnock bldg
 Dewar, R., 4th & Merrimac
 Dowling, J. J., 925 Fulton
 †Dreyer, Bernard, 289 Fell
 †Duebel, Chas. A., 225 Harrison
 †Einstein, Daniel, 1115 Van Ness
 Elkington, Geo. J., 524 Polk
 Ellis, Seely E., 2016 Filmore
 Fee, Grant, 4070 19th
 Fellows, C. A., Kentucky nr 3d
 Fennell, Jas. S., 330 Frederick
 Ferguson & McCunn, 1777 Union
 Finch, Chas. M., Monadnock bldg
 †Fischer, Chas., 32 6th av
 Fuller, Geo. A. Co., Monadnock bldg
 †Furness, John, 1457 Ellis
 Gale, Merritt F. & Son, 604 Mission
 Gilbreth, Frank B., Chestnut
 Gingg, J. H., 918 Larkin
 Gnecco, M. & Co., 36 Wood
 Golden Gate Construction Co., 754 Golden Gate av
 Gompertz, Chas. W., 2053 Sutter
 Graff, Wilson L., 2639 Howard
 Grauer, J. M. Co., 1431 Ellis
 Hallett & Gee, 1255 11th av
 Hannah Bros., 614 B. O'Farrell
 Harney Bros., 3619 18th
 Harrelson, Wm. H., Union Trust bldg
 †Healy, Tibbits Construction Co., Mission st dock
 Helbing, Wm., 311 Bush
 Henderson, Jno. H., 341 7th av
 Henderson, J. R., 49 Elliott park
 Henshaw, C. A., 728 Polk
 †Hoin, Theo. S., 3137 Steiner
 Hopps, Jno. H., 517 Market
 †Hurlburt, R. P., 1232 Masonic av
 Hyde, Harjes & Co., 13 Steuart
 Jensen & Furness, 1457 Ellis
 Jess, W. M., 2011 Devisadero
 Jones Construction Co., 779 Market
 Kamiya, H., 815 Sutter
 †Keenan, Hugh, 300 Webster
 Kelly, John C., 1708 L
 King Construction Co., 1546 O'Farrell
 Klittle Construction Co., 779 Market
 Klyce, Harvey A., 1930 Van Ness av
 Knowles & Reichley, 779 Market
 Koenig & Pettigrew, 922 O'Farrell
 †Larsen, H. H. (Brick), 1850 Green
 Lawson, A. W. (Brick), 1441 Greenwich
 Leach, Richard, 277 Fell
 Lee, Cornelius M., 106 Presido av
 Lennon, J. E., 362 Church
 Linden, Wm., 1100 Dolores
 Little, Wm., 3462 19th
 Loss, C. E. Co., McAllister & City Hall av
 Lynch, M. C. & P. J., 1068 Brannan
 McCullough Contracting Co., 2233 Market
 McFadden, P., 36 Potrero av
 McKay, Alexander, 65 Brady
 McKillican Bros., 426 California
 McLean, Murdock, 3773 Sacramento
 McMahon, Jas. A. Co., 13 Steuart
 Maddox, H. I., 22 Duboce av
 Mahony Bros., St. Francis Hotel
 †Marcuse, Felix, 1768 Ellis
 Martin, B., 25th & Noe
 Mason & Morrison, Monadnock bldg
 Mercer-Fraser Construction Co., 1525 Mercer
 Miller, Geo. E., 710 Montgomery
 Miller, J. W., Merchants Exchange bldg
 Mitchell, Chas. B., 2228 Pine
 †Mitchell, Rob't (Brick), Ocean Beach
 Moller & Sons, 520 Jessie
 Morehouse, C. C. (Plasterer), 1911 California
 Mortensen Construction Co., 19th & Indiana
 Murphy, J. J., 2859 California

Nagle, R. H., 269 Waller
 New Era Construction Co., 318 Market
 New San Francisco Building Co., 1721
 Nimmo, Geo., 345 8th O'Farrell
 O'Connor, J. J., 3689 Sacramento
 O'Neill & Hansell, 272 Jessie
 Olmo, J., 25 E Potrero
 Olsen, Alfred, 966 Clayton
 Pacific Coast Building & Repair Co., 2203 Mission

†Pacific Construction Co., 17 Spear
 Palmer, S. H., 17th & San Bruno av
 Parks, L. N., 2503a Sacramento
 Pauly Jail Building Co., Monadnock bldg
 Penny, Isaac, 1532 Devisadero
 Pettus, T. A., 109 O'Farrell
 Phoenix Contracting Co., 420 Valencia
 Pinney, Henry B., 2830 Buchanan
 Preston Construction Co., 11 Front
 Price & Hutcherson, 1550 Turk
 Pryor & Doty, 1300 Golden Gate av
 Rankin, C. D., 724 Gough
 Ransome Construction Co., 8th & Harrison
 Reagh Construction Co., 517 Market
 Reed & Farrell, 233 Precita av
 Rialto Construction Co., Monadnock bldg
 Riley, Jno. F., 1717 Webster
 †Ringrose, Rhody, 2618 Sacramento
 †Robinson & Gillespie, Clinton park & Valencia

Rountree Home & Building Co., 1138 Cole
 Salanave, Jno., 915 Pacific
 San Francisco Construction Co., Camp & 7th av
 Sass & Son, 629 California
 Schmitt, Peter, 2323 Folsom
 Sergursen Bros., 1577 Folsom
 Selfridge & Sypher Co., 779 Market
 Sheehan, Jno. R. Co. (Inc.), 771 Market
 Slutman, F. E., Post & Polk
 Smith, Hayes & Smith, 48 10th
 Smyth, John T. E., 846 Fell
 Snook, Jas. A. & Co., 247 Davis
 Soule, Arthur C., 68 Lotta
 Stierlen, John, 175 Carl
 Standard Building Co., Kohl bldg
 Stiefel, Jno. V., 635 A
 Summit Construction Co., 48 Bush
 Thompson-Starrett Co., 2053 Sutter
 Thomson, S. E., 210 Leidesdorff
 Thomson, Wm. T. & Son, 13th & W Mission
 Trost, Robert, 3636 Army
 Trounson, J., 176 Ash
 Tucker, E. W. & Co., 934 Buchanan
 Turner, M., 209 Steuart
 Urfer, Chas. E., 2650 Post
 Voigt, Fred M., 579 5th av
 Walker, Geo. H., 2174 Union
 Watson Construction Co., Geary & Stockton
 Watson & Deming, 515 Pine
 Webster-Mace Construction Co., Monadnock bldg
 Wilhelm, A. H., 428 Capp
 Wilkins, Samuel J., 126 Lily av
 Williams, Payne Co., 311 Van Ness
 Wilson, Chas., 437 Haight
 Wolfenden, George, 543 5th av

SAN JOSE—†Bacon, G. G., 604 Spencer av
 †Boyles, W. S., 70 N 10th
 Boynton, J., 142 N 5th
 †Byron, D. J., 544 S 7th
 †Carr, John W., 150 S 1st
 †Chartler, D. A., 235 Race
 †Curtis, F. A., 526 N 3d
 Davis, Frank, 437 N 4th
 †Field, Z. O., 167 S Priest
 Hawkins, C. W., 338 E Santa Clara
 Hiatt, Edw. Boston av nr Olive av
 House, A. E., Maple av c Alviso rd
 Jordan, F. H., 12 S 10th
 Kelsey, D. H., 440 Delmas av
 King, Jno. S., Mabury rd nr King rd
 Lamb, J. B., 640 S 11th
 Short, A. B., 1100 Delmas av
 Shottenhammer, E. J., 401 S Market
 †Stewart, J. D. (Large), 6 N 3d
 †Summers, Robert O., 17 N 1st
 Wells, P. R., 580 S 5th
 Woehl, H. F., 559 Minor av
 Wolfe, J. B., Bird av nr Willow

SAN LUIS OBISPO—Blickford, L. M.
 Dawson, Thomas
 Evans, William
 Wilson, I. L.

SANTA BARBARA—Fergus, E. O.
 Fulwider & Coleman
 Garrison, J. M.
 Jensen, L. P. & Son
 McDonald, Wm. L.
 Miller, J. C. F.
 Mission Construction & Building Co.
 Smith & Jacobs
 Stone, A.
 Whitaker, J. G.

SANTA CRUZ—†Folsom, C. D.
Kaye, Chas.
†Reld, George W.
SANTA MONICA—Bach, Lewis
Bray, W. O., 214 Utah av
Griffith, T. A.
Randall, E. L.
Snyder, G. D.
Wiseman, T. B.
SANTA ROSA—Nagle, Wm.
†Simpson & Roberts
STOCKTON—†Beasley & Beaseley, Clark &
Henery bldg

Bowdoin, L. M., 28 N Pilgrim
†Braunton, W.
†Burns, D., 921 S California
†Clark & Henery (Large)
*Coggeshall, W. H., 822 N Pilgrim
Cowell, A. M., 280 Stanislaus
Dewey, James C., 527 S Union
*Doyie & Son, 30 E Worth
*Hanks, W. E., 228 E Clay
†Lea & Lewis, 220 S Sutter
†McDonell, A. C., McDougald bldg
†Noall, R., 1122 E Lafayette
†Oates & King, Old Salz bldg
†Pensyl Bros., 215 S California
†Powell, Robert, 44 S Aurora
†Reibenstein, R. R., 130 S Sutter
†Towne, C. A., 1130 E Lafayette
*Tucker, C. F., 1115 S Center
†Waite, H., 1230 N Center
†Woodbridge, Wm. H., Flora c American
†Woodruff, E., Maple c Center
VACAVILLE—Sharpe, G. H.
Steiger, F. A.
WOODLAND—Curson, W. H.
†Winne, W. H.

COLORADO.

COLORADO SPRINGS—†Atkinson, J. W., 65
Benton, B., Exchange pl P. O. bldg
†Bishop & Taylor, 19 S Nev
Chester, C. W., 13 S Cascade
†Crissey & Fowler Lumber Co.
†Dannevik & Currie, 21 Carpenters' al
†Geissler, Chas., 120 N Nevada
†Gillis Bros., 313 N Tejon
Goshen, S. M. (Brick), 117 Mechanics pl
Hill, Jno., 25 E Bijou
Honeyman & Auld, 12 Carpenters' al
Kirkpatrick, N. J., 620 W Huerfano
Newton Lumber Co.
†Paster & Blood, 113 E Bijou
Potter, J. I., 222 N Tejon
Verner, R. J., 30 Hagerman
†Wright, Geo., 20 E Bijou
†Wright & Harmer, Carpenters' al
Yott, Chas., 833 E Willamette
CRIPPLE CREEK—†Bayne, J. J.
†Duff, John T.
McClintock, E. W.
†Osborn & Wood
Trittipo, T. L.
†Turner, E. M.
Walz, Ed.

DENVER—Ahair, F. X., 212 15th
Anderson, Frank, 1331 E 7th av
Bitter, J. J., 1712 Penn av
Brink, Ferdinand, 1813 Champa
Brown Contracting Co., 1135 14th
Brownell & Diller, 3158 Larimer
Brumm, F., 1708 Curtis
Carroll, F. H., 519 13th
Cary & McFarlane, 1019 19th
Cocherell, J. W., 1058 12th
†Cochran & Hoklas, 1811 Stout
Cole, Jno. W., 505 Sante Fe av
Collins, Ernest, Continental bldg
Colman & Son, 1122 W Walnut
Combs & Sess, 1422 Glenarm
Craft, S. W. & Co., 1654 Glenarm
Craig & Parks, 1842 Lawrence
Doak, Jas. M., 2429 W 37th av
Dunn, Chas. J., 1300 S Water
Dustman, Jno. H., 4859 Wolff
Eckstrom, Chas., 75 S 6th
Fewlass, Robert, 2316 10th
Fox & Green, 1844 Lawrence
Geiger, Jno., 439 Lafayette
Graham, Matthew, 620 14th
Griffith, R. J. & Son, 1335 Welton
Hamman, J. A., 1712 Larimer
Hannum, G. T., 1928 Blake
Hatch, C. O., 1846 Arapahoe
Hervey, S. O., 11 W Maple
Hess, Jas. B., 2809 W 29th av
Hudson, Jno. W., 1625 Pearl
†Hughes, Wm. G., 2019 Champa
Humphrey, A. C., 51 Pearl
Hupp, Henry N., 2436 Larimer

Jackson, Jas. B., 1717 Stout
Jewett, F. D. & Co., 2951 Gray
Johnson, Thos., 2744 Lawrence
Kirchhoff, Chas. E., 2705 Walnut
Lesenea, Jno. A., 1710 Larimer
Lewis, Geo., 1012 19th
Little, Geo., 1660 Platte
Lund, Ernest, 21 W 13th av
McArthur, P. C., 415 W 4th av
McHugh, S. C. E., 2517 19th
McLeod, Neil, 816 15th
Moreum, Chas., 1932 Lawrence
Needles, Avery, 2014 W 32d
Norton & Reynolds, 1741 Curtis
Pearce, S. A., 1856 Arapahoe
Pedersen, Rasmus, 2836 Welton
Quaintance & Cluster, 17 E 16th av
Read, Jason, 2535 15th
Riley, Elliot, 2116 Blake
Ripley, A. S. Building Co., Exchange Bldg
Simpson, J. M., 1019 19th
Skeel & Striegel, 322 15th
†Stocker & Fraser, Continental Bldg
Traver, N. L. (Brick), 1515 Arapahoe
Treff, C. A., 1413 Blake
Van Meter, M. H., 1531 Cleveland pl
Vernon, C. A., 2618 Larimer
White, J. T., 16 E 26th av
Wilber, A. H., 1649 B'way
Wolff, H. J., 1855 Lafayette
Young, C. A., 1640 Champa
LAMAR—†Davis & Pollard
LEADVILLE—†Christman, M., 512 Harrison av
Chronister, W. W.
†Cobble, W. W., 133 W 5th
Colahan, F.
Gross, Henry D.
†Jones & Jones
Schmidt, A. E.
Stockton, C. C.

PUEBLO—*Anderson, Gust., 1143 Claremont av
*Baum, A. C., 825 E 4th
Campbell, Alex, 316 W 6th
Clark, W. H., 612 Court
†Corbett, A. C., 2412 Elizabeth
†Fraser, W. G., 217½ S Union av
†Hadwiger, J. L., 112 W 5th
Hill, A. W., 1331 E 10th
Hollaran, J. P., 1111 E 5th
Lyons & Axtell, 1502 Clermont av
McKee, J. C., 227 W 14th
Mahoney, Daniel, 1000 Carteret av
†Marble Bros., Rountt & Mesa avs
Merz, J. A., 529 Van Buren
*Mills, Jas. W. (Stone), 208 N Santa Fe av
Parker, Silas, 216 W 8th
†Pearson, Axel, 617 W 4th
†Piper Bros. Co., 222 W 2d
*Pitman, D. A., 1110 E 6th
Rapalle, R. L., 912 E 2d
Reynolds, Geo. E., 1019 W 13th
†Richardson, J. A., 319 Court
†Schmidt, H. C., Evans & Fairview
†Standard Construction Co., Board of Trade
Summers, J. C., 212 W 5th
Taylor, Frank, 15 Triangle blk
Whitlock, W. J., 110 N Santa Fe av

CONNECTICUT.

ANSONIA—†Barnes, W. A.
†Barnes, W. A.
Beardsley Building Co.
*Holbrook, Royal (Stone), 53 Franklin
Penders, T. H., Prospect
Potter, Wm. (Stone), Rockland av
Ransome & Smith Co.
†Woodruff, C. Y.
Wooster, C. B. (Stone), 263 Wakelee av
Wooster, Dwight, 277 Wakelee av W A
BETHEL—Gilbert Bros.
†Senior, A. H.
BRANFORD—†Bradley, Richard (Large)
†Hosley, Benjamin F.
BRIDGEPORT—*Behrens, F. W., 917 Noble
Biltz & Co.
Bishop, Jno. H., 1275 Park av
†Bostford, Chas. H., 1586 Iranistan av
†Bridgeport Building Co. (Large), 58 Arc-
Bulkley & Smith, 171 John tle
Burgess, T. A., 2285 E Main
†Burns Co., The, 83 Fairfield
D'Ignostino, James, 1852 Main
*Dowling & Bottomley, 1119 Broad
*Ford, F. H., 446 Pembroke
†Frederickson, Bros. Co., 629 Railroad av
†French, Geo. F., 486 Park
Gallagher, James, 210 Coleman
Gallivan, J. P. Building Co., Kossuth
†Gough, John, 839 Railroad av
General Construction Co., The, 1913 E Main
Grive, J. Andrew, 1231 Pembroke
Haight, Edward F., 45 Ellsworth

†Hoffman, Henry C. & Co., 249 Water
Hoffman, Lewis W., 78 Baldwin
Hubbell, Samuel W. Building Co., 590 Knowlton
Hurlhurt, Walter S. Building Co., 225 John
*Jackson, John & Co., 492 Park
†Jones & Hoffman, 45 William
La Forge, Marcus E., 15 Hayes
Laister, Percival, 31 Kossuth
Langevne, Jos. P., 40 Harral av
Locke & Huddy, 952 E Main
Luun & Christensen, 1217 Main
*McCarthy, Geo. T., 933 Iranistan av
McFarland, John J., 1283 Howard av
†Martin, Wm., 705 N Washington av
Mills, Geo. E., 108 Kossuth
†Morehouse, And'w & Sons, 804 William
Muirhead, Wm. R. Co., 1362 Pembroke
Nettleton, H. H., 247 Colorado av
Nordling, George, 1384 Boston av
*O'Brien, T. & Son, 137 Black Rock av
*Purdy, Hy. M. Co., 550 Water
Sanger, Jos. M., 520 William
*Schindler & Noonan, 135 Sherwood av
Schwartz Bros., 160 Lindley
†Sherman, Adolph, 195 6th
†Smith, W. A. Building Co., 190 Cannon
Smythe, Chas. D., 1492 Boston av
Squires, Seth B. & Sons, 51 Elm
*Stewart, Thos., 6 Ashley
Stone, Lorenzo D.
Traggorth, A. C., 85 Linwood
Turill, Jas. C., 153 John
†Vanstone & Vanstone, 106 Austin
*Whelan, Robt. W., 411 Gregory
Wilkius, Philip, 446 Beechwood av
BRISTOL—Benolt, W. F. (Stone)
Crothers, W. W.
†Fogg, W. E. (Large)
Freeman, James
*Hough, Edgar A. (Stone)
†Linstead, F. W.
*Linstead, Geo. W.
*Linstead, Wm. (Large)
†Stewart, L. L. (Large)
†Tallion, A.
†Thompson, M. C.
CROMWELL—Condon, H. W.
Johnson, E. T.
DANBURY—†Barry, Henry, Crosby n Maple av
Bell, Alfred, 104 Elm
Benedict, John H., 4 Moss av
†Blackman, W. E., Crosby
Bunnell, Jno L., 10 Pearl
Crossley, Chas. C., 24 Griffing av
Cunningham & Patchen, 34 Lincoln av
†Foster Bros., 21 Delay
Hager Bros., 11 Meadow
Hill & Reynolds
Leahy, Edmund, 7 Clark
L'Heureux, Henry, 28 Main
Mallett, Judson B., 23 Rowan
†Marsh & Knapp, E Franklin
Northrop, Warren H., 16 Bates pl
†Olmstead, F. C., 19 Crosby
†Osborne, Peter M., 353 Main
Parsons, Abel, 28 George
Schnable, Philip W., Stevens pl
†Sunderland, W. W., 7 Spring
DANIELSON—†Stone, S. S.
DANIELSONVILLE—Gilbert, J. A.
DARIEN—†Schofield, Hy. & Son
Whitney, Wm. M.
DERBY—Austin, Daniel, Mt. Pleasant
Durr Schmidt & Co.
*Hession, Wm., 92 Smith
Yoehcr, J. G., Jr.
EAST HADDAM—Galdwin, Casper S.
Mack, J. T.
EAST HAMPTON—Carpenter, H. E.
Darling, A. R.
Flood, Andrew
†Strong & Hale
EAST HARTFORD—Bragg, J. Merrick, 7 Elm
Carroll, Jos. E., 15 Central
*Dutton, Leslie, 14 Rector
Driggs, Waldo J., 62 Hartford av
*Fairbanks, C. P.
Gehan, John B., 63 High
Jones, Chas. A., 32 Hartford
Morris, James, 66 Tolland
*Whaley, A. M., 41 Olmsted
†Whaples, Jno. F.
ESSEX—Southworth, Jos. P.
FAIRFIELD—†Birch, Robert J., Southport
Busser, Ignace
*Cobb, John H.
†Darling, Jas. W., Southport
†Forsyth, Thomas
*Godfrey, Eugene, Banks South District
†Gray, Charles, Southport

Perry, Frank E.
 Reed, Joseph
 *Rigney, Jas.
GREENWICH—†Anthony, Daniel & Co.
 Banks, A. C. (Banksville)
 †Crosby, Jos. P.
 Ferris, J. H.
 Mead, W. H.
 †Mills, S. A. & Co.
 Reynolds, James (Banksville)
 †Selleck, W. Sands
 Stoothoff, Stephen
 †Thompson, Anthony
 *Weir, Joseph T.
 †Young, Thomas
GROTON—Edgecomb, J. F., 34 Ramsdell
 Hanover, Clinton D.
 Marquardt Bros.
 *Tiffany, Albert N.
 *Watrons, Horace G.
HAMDEN—Bassett, George A.
 Woodling, B. H.
 Pearl, Lester A.
HARTFORD—†Aleorn, Robert T., 21 Gold
 *Andrus, Chas. B., 902 Main
 Angus, Alex., 31 Warner
 †Barrett Bros., 46 Trumbull
 Belden, E. S., 217 Laurel
 Bering, P. H., Bloomfield
 Brodeur, Arthur J., West Hartford
 †Budde, A. W., 107 Hungerford
 Calder, Geo., 140 Sargeant
 Cohen, E., 28 Park
 †Cook, Charles C. (Large), 401 Trumbull
 Couture, Joseph H., Clermont
 Crane, Patrick W., 90 John
 Day, H. A. B., West Hartford
 Deming, Wm. B., 19 Columbia
 †Denison, George E., 168 Pearl
 Eidlitz, Mare & Son, 686 Main
 Erickson, M. H., 77 Ward
 Flynn, Jno., M., 27 Vernon
 †Flynn, Martin, 62 Lincoln
 *Flynn, Thos., 96 Buckingham
 *Fox, T. R. & Son, 36 Pearl
 †Gradisky, L. W. H., 80 Ann
 †Grozier, Jas. H., 125 Warrenton av
 Gustafsen, Elon W., 49 Pearl
 Gustafsen, Fred M., 347 Wethersfield
 Hannon, Hugh, 119 Putnam
 Heimovitch, Wm., 14 Avon
 †Hills, A. L., 720 Main
 *Hills, Jno. R., 754 Main
 Hoggson Bros., 36 Pearl
 †Hollis, D. W. & Son, 212 Asylum
 Hoyer, F. P., 70 Lenox
 *Johnson, Richard, 27 Pawtucket
 Jones, R. F., 36 Pearl
 Keep, Wm. E., 97 Webster
 Lykke, John P., West Hartford
 McCann, Patrick A., 33 Vernon
 †McIntyre & Ahern, 50 John
 †Malcolm, Thos., 26 State
 Meloney, Chas. D., 27 Spring
 Merrill, Arthur H., 462 Farmington
 Murphy, J. P., 1307 Park
 Nevils Bros., 7 Central
 †Newton, Theodore & Co., 77 Pearl
 *Newton, Thos. S., 116 Clark
 †Nolan, John F., 54 Benton
 Norton, Malcolm A., 71 Highland
 O'Brien, Wm., 136 Retreat
 O'Laughlin, James, 756 Main
 *O'Neil, Michael, 24 Pawtucket
 †O'Neil, Wm. F., West Hartford
 Parker, G. S., 57 Mahl av
 †Pellett, A. D., 240 Smith
 †Philbrick, Halsey B., 26 State
 †Porteus, Robert, 13 Forest
 Provost, Napoleon L., 142 Brown
 †Purves, Adam, 334 Asylum
 †Rogers, James H., 58 Belden
 Rosen, J., 12 Duffield
 †Rowley, Frank H., 607 Albany
 †Rowley & Wilcox, 36 Raymond
 Scott, John, 48 King
 Seoville, A. W. Construction Co., 756 Main
 †Seoville, W. H., 720 Main
 Simms, W. J., 80 Pearl
 †Sinnott Bros., 87 Lincoln
 Stenson, O. E., 16 Cone
 *Sullivan, D. M., 42 Adelaide
 Taylor, Peter, 101 Bartholomew
 †Tryon, Watson & Son, 720 Main
 Woodward, Fred'k E., 66 Madison
 Zadeek, B. M. Co., 630 Windsor
MANCHESTER—Palmer, Robert W.
MERIDEN—*Arnold, G. A., 225 Curtis
 Bagley, George, 48 Linsley av
 †Bloomfield, Garry, 18 Chestnut
 †Fitzgerald, M. F., 123 Linsley av

*Lines, H. Wales Co. (General), 134 State
 †Miller, W. F., Kensington Heights
 †Moorehouse Bros. Co., 20 Miller
 Sazio Bros., 185 Lewis av
MIDDLETOWN—Brazos, A. & Sons, 82 Oak
 †Burke, Robert W., 84 Pearl
 *Butler, H. R., Church
 †Loewenthal, Gustav, off Front nr Russell
 *Mylchreest, Wm. & Sons, 9 Brainerd av
 *O'Brien, Dennis, 42 Crescent
 †Robinson, A. B. & Son, 145 Main
 Southworth, Jos. E., 520 High
 White, Frank H., 27 Park pl
 Young, J. B. 50 S Main
MILFORD—†Baldwin, S. H.
 *Bristol, Dennis M.
 *Miles, J. L.
 †Smith, David E. & Co.
MYSTIC—Allen, G. W.
 Crumwell & Heath
 Heath, John H.
 Mattison, Robert R.
 Miner, Manning
 Noyes, Nathaniel
 Tufts, Caleb
NAUGATUCK—*Dunn, Jeremiah H., 224 Mill-
 †Gorman, Jno. J., Gorman & Lewis ville av
 †Hotchkiss, E. A., Beacon Valley
 Matson, Lawrence V., 215 N Main
 O'Brien, Jno. J. Construction Co., 209 Water
 Reynolds, Jos. W., Cherry
NEW BRITAIN—†Allen, John W. & Son, 209
 †Andrews, William A., 32 Camp Enst
 Andrus, Cas. B.
 Bradley, Wm. S., 14 Kelsey
 Carlson, Erie U., 78 Winthrop
 Carlson, Jno. August, 157 Dwight
 †Carlson & Torell, 67 N. Fairview
 Clifford, A. D., 47 Chestnut
 *Crowe, Thomas W., 17 Tremont
 †Curtis, O. F., 73 Church
 *Doolittle Bros., Linwood st. (Brick & Stone)
 †Edwards, Clark, 60 Lafayette
 Hennessy, Timothy & Son, 166 Hartford av
 *Hibbard, B. H. Co. (Inc.), 153 Arch
 Holmes, Chas. W., 110 Fairview
 Johnson, Chas. F., 147 Jubilee
 †Johnson, S. J., 62 Hawkins
 *Mansworth, Edward, 16 Beaver
 *Ramage, R. J. (Brick & Stone), 42 W Pearl
 †Rowley, C. E., 111 Dwight
 *Sparks, Wm. B. & Sons (Stone), 214 Park
 *Webb, Thomas (Stone), 58 Chestnut
 †Whaples, Henry N., 134 Linwood
NEW HAVEN—*Anderson, H. M., 31 Wilkins,
 Whitneyville
 Anderson, Mathew S., 138 Blohm, W. H.
 *Baldwin, Elbert H., 37 Gill
 Barnes, Wm. E., 75 Gibbs
 †Bassett, Geo. A., Ridge rd, Hamden
 Brainerd & Benson, 90 Temple
 Brett, Edw. P., 7 Prout
 Bruce, Lawrence, North Haven
 Carey, John E., 117 Greene
 *Carmichael, A. J., 595 Whitney av
 *Carmichael, D. G., E Rock rd
 Central Building Co., Prospect & Harris
 †Chureh, James A., 262 Sherman av
 †Clark, David H. Co., 166 Brewery
 †Clark, G., Wilbur, 244 Sherman av
 *Coffey, Lawrence J., Autumn nr Canner
 Colwell, Philip, 21 Gilbert
 †Conlan Bros., 176 Franklin
 *Cronin, P. H., 141 California, W. H.
 Curtis, Walter B., 502 Whalley av
 Dauenhauer, Chas., 327 1st av, W. H.
 Davis, T. L., 41 George
 †Dean, Geo. W., 10 Pitkin la
 Dean, J. LeRoy, 65 Orange
 Doherty, Timothy F., 123 Fillmore
 Doolittle, Ernest D., Fairfield av
 *Dutcher, Oscar W., 25 4th av, W. H.
 Elwell, F. J., 72 Campbell av, W. H.
 Flanagan, John J., 71 Ivy
 †Fogarty, J. A., 42 Peck
 †Fowles, Harry L., 90 Poplar
 Fusco, Carlo, 495 Columbus av
 Galligan, Jas. E., 137 State
 *Gayton, Wm. (Stone), 31 Whiting
 Gibbnd & Augur, 83 Water
 Gilhuly, Bernard, 41 Martin, W. H.
 Goldstein, A., 71 Prince
 *Grant, Geo. M. Co. (Large), 865 Chapel
 †Grenier, Alfred D., Park av & Golden
 Gutzeit, Louis, 9 Alling
 Hagen, Jno. A., 83 Whalley av
 Hamilton, Henry S., 258 Bassett
 Hayes, Wm. H., 20 Elliott
 Hedden Construction Co., Church c Crown
 Heft, Richard, 90 Thompson
 Henderson, Hy. W., 820 Orange
 †Hildreth, J. D. & Son, 514 Elm

†Hine, E. L., 72 Asylum
 *Hogan, James H., 138 Davenport av
 Howard Co., 250 W boul
 †Hubbell-Merwin Co., 19 Artizan
 †Kenney, Jno. W., 19 Park
 †Knoll, Carl A. & Son, Davis
 Lathrop & Shea, 23 Shea
 *Leonard, John N. & Co., 902 Chapel
 †Lewis, John W., 338 Lighthouse rd, nr
 Morris cove
 Lipson, Philip, 157 Washington av
 †Lowe, H. E., 219 Grand
 †Lowe, John, 362 Grand
 †Lowe, Richard C., Foxon rd, Foxon
 †McFeters, Charles, 370 Orehard
 McWilliams, Alex., 173 Livingston
 McWilliams, Alex. S., 74 Howard av
 *Maher, Thos. F., 56 Bishop
 *Maleolm, J. D., 33 Bishop
 Martin, Francis, 246 Thomas, W. H.
 Mix, Wm. N., 1270 Dixwell av
 Montgomery, W. J., 72 Cauner
 Morcaldi, Dominick, 116 Orehard
 †Morgan, S. H., 80 E Pearl
 Morton & Curtis, 478 State
 Murdock, Chas. W., 530 Grand av
 †Osborne, John S. Co. (Large), 178 Goffe
 †Parmelee, Hy. E., 30 Atwater, W. H.
 Paterson, Wm., 844 Chapel
 Perry, W. S., 210 Howard
 *Platt, Philip E., 152 Peck
 Pratt, H. L., Foxon
 Prete, Raffaele, 7 Fair
 †Prince, Edw. A., 498 Howard av
 Rathgebar, Geo., 37 Sylvan av
 Reed, Channey F., 59 Forest
 Reid, Wm. J., Shelton av & Read
 *Reilly, Jas., 21 Bradley
 Ritchie, Wm., 115 Bishop
 Robertson, Wm. H., 57 Crown
 Rockwell, Geo., 7 Lyon
 *Sherman, Jno. L. & Son, 253 1st av, W. H.
 *Sperry & Treat (Masons), 39 Church
 *Sperry Co. (Large), 902 Chapel
 *Stowe, F. A. & Son, 109 Fountain
 Stone, Abraham, 43 Prince
 Taylor, Samuel A., Chapel & Sherman av
 Thomas, L. I., 340 Howard av
 Thomas, Lewis R., 824 1st av, W. H.
 †Thompson, John L., 270 Lenox
 †Todd, James E., 546 State
 Travis, Frank F., 72 Church, W. H.
 Upson & Granniss, 116 Franklin
 Valente, P., 2d., 55 Hallock
 Ward, Wm. J., 86 Dorman
 *Warner, Chas. W., Highwood
 *Warner, F. A., 862 Dixwell
 *Warner, H. E., Jr., 27 Barnett
 Warner, John W., 74 Smith, W. H.
 Williams, Lewis, 284 Orange
 Wooding, Burton H., Dixwell av, Hamden
NEW LONDON—†Denison & Brown, 376 Bank
 Douglas, Hamilton R., 27 State
 *Fowler Bros., 181 Ocean av
 *Fowler, O. L. (Bricklayer), 164 Willetto av
 †Geer, N. Elbert, 367 Bank
 †Goddard, A. O., 345 Broad
 Hanover, C. D., Baker av, Groton
 †Harvey, Wm. A., 311 Ocean av
 †Holmes, G. H., 38 Front
 *Ladd, F. M. Co., 430 Bank
 †Linicus & Canlkins, 743 Bank
 †Lyon, I. U., Williams
 McQueen, Geo. A., 346 Montauk
 Maguire & Penniman, Groton
 *Martin, Luke B., 24 Montauk av
 *Murphy, Dennis J. (Brick), 29 Tilley
 *O'Connell, Michael, 160 Bayonet
 Olsen, Eleas, 18 Robinson
 Perkins, T. P., E Lyme
 *Pierce, Edgar B. (Bricklayer), 29 Golden
 *Post Bros. (Stone), 370 Bank
 Prentice, Herbert B., Bayonet
 *Ryan, J. J. (Stone), 105 Blackhall
 Trail & Darrow, Waterford
NEW MILFORD—Beach, C. M.
NOROTON HEIGHTS—*Skelton, R. F. (Ma-
 sonry, etc.)
NORWALK—Bedient, Fred'k H., 15 Centre av,
 Berger, E. & Co., 45 Wall, N.
 *Charlott, Salvatore (Stone), 26 Wood, S. N.
 †Gamble, Leslie, 23 Seaview av, E. N.
 Gregory, Franklin B., 6 Westport av, N.
 Hendricks, Harry A., Silver Mine av nr
 Comstock av, N.
 Hill, Geo., Tokenke
 Hoyt, Dudley E., Highland av, S. N.
 McMahon, Wm. H., 30 Seymour av, S. N.
 †Malkin, A. R. & Co., 3 Mechanic, N.
 †Mather, Henry W., 49 Water, S. N.
 Morehouse, Samuel C., W. N.
 *Smith, W. H., 39 West, S. N.

†Waldron & Riordan, 29 Haviland, S. N.
White, W. F., 12 Main, N.
*Yost, Charles, 80 Main, N.
NORWICH—†Beckwith, Frank E., 90 W Main
†Blackledge, H. & Co., 27 7th
†Bowers, Gilbert, 130 Washington
†Carpenter, Albert N., 23 Commerce
*Dodd, Thos. (Stone), 36 4th
*Donovan, Jno., 56 Roath
*Fellows, Geo. E., 343 Franklin
*Fowler, Edward B., 5 Carter av
Murphy, Anthony, Taftville
*Peck, McWilliams & Co. (Brick & Stone),
†Perkins, C. W., 44 W Main 47 W Main
†Stetson, Vine S., 53 W Main
Torrance, Archibald (Heavy), Prospect, head
Tracy, Jno. C., Franklin of 9th
†Williams, C. M., 218 Main
PUTNAM—†Bellrose, Julien
Carpenter, B. J. (Bricklayer & Plasterer)
Carpenter, S. S. (Bricklayer & Plasterer)
Coville, Henry, Grove st
†Hopkins, H. F.
†Wheaton Building & Lumber Co., Front st
RIDGEFIELD—†Kennedy, J. M.
ROCKVILLE—Arnold, George & Son
Caposto, D. F.
Hutchinson, Frank
Street, A. F.
SEYMOUR—Harris, Wm.
Lanyon, Wm. T.
SOUTHINGTON—†Knapp, Jacob F.
SOUTH MANCHESTER—†Bloom, Charles H.
*Corbin, J. Arthur
Hawley, J. E.
†Hohenthal, E. L.
†Mercer, Arthur
†Schreiber, Gustav
*Treat, Chas. O.
SOUTH NORWALK—(See Norwalk)
STAMFORD—†Bland, Thos., Grey Rock pl
†Brown, Francis
*Hook, Frank, 497 Main
Orr, Robert H., Courtland av N of Depot,
Ransome & Smith Glenbrook
†Raymond, Everett, Maple av, Glenbrook
†Rogers, Geo. A.
†St. John, S. Y., 11 Bedford
†Schofield, Arthur A., 323 Summer
*Shea, Frank, Main
†Studwell, D. W., 24 Hoyt
Tucker & Vinton, Southfield av
Vuono, Chas. D., 244 Pacific
*Weed, Eugene A., 624 Summer
†Weed, Geo. N., 5 4th
STRATFORD—*Blakeslee, C. W. & E. C.
*King, Benjamin (Brick & Stone)
SUFFIELD—Brown, F. W.
THOMASTON—Watrous, John N.
TORRINGTON—Christensen, Theo. A. (Brick)
De Michel, Jno. & Bros. (Stone)
†Farley, J. L.
*Fuller, Frank W.
Gleeson, Patk.
†Hotchkiss Bros. & Co.
Jenks, George
Kirsch & Racheter
Lathrop & Shea
*Longhi, Louis & Bro. (Brick & Stone)
Peck, Geo. H.
*Torrington Building Co. (Large)
WALLINGFORD—*Botsford, Horace, Cherry
†Wooding, C. F.
WATERBURY—Abern & Dillane, 37 Summer
Bahan & Dwyer, 24 Adams
*Bergen, Edward & Sons, 475 Baldwin
Bernier, Victor, 1000 Baldwin
*Bronson Knibbs Co., ft of Benedict
*Bryan Bros. 57 Johnson
*Butler, Edw., 19 Pearl
*Butler, Thos. F. (Brick & Plasterer), 145
Carey, Owen, Crescent Bishop
*Chatfield, G. S. Co. (Brick & Stone), 73
Canal
*Chatfield & Chatfield (Brick & Stone), 94
Chotzainoff, Julius, 603 N Main Benedict
Chotzainoff, Samuel, Elizabeth
Close, Charles A., 35 Starview av
Cronin, D. E., 11 E Main
†Delowry, Thos. A., 65 Cherry
Fidelity Construction Co., 953 Baldwin
Goodwin, Jos. S., 16 State
Granite Construction Co., S Main
Greene, H. T., 30 Woodruff
†Irion, Burton A., 175 Wood
†Ketchen, C. A., Willard av c Fisk
Lines, H. Wales & Co., W Main
Lovett, Jeremiah A., 59 Fuller
*McManus, Edward, 120 Bridge
†Maculey, J. J., Bunker Hill rd

Macauley Construction Co., 49 Chatfield
†Mraz, John, 375 S Leonard
O'Brien Construction Co., W Main
†Riggs, Gardner G., 108 Bank
Seeley, Channcey & Co., 85 Bishop
†Smith, Edw. C., 405 N Willow
Tafel, Morris, 81 Division
†Tracy Bros. Co., 52 Benedict
Upham, George A., 48 S Willow
WATERTOWN—Griffin, J. E.
WEST HAVEN—(See New Haven.)
WILLIMANTIC—Jones, J. H., 128 Windham
†Larkin, H. A. & Son, 73 Spring
Latham & Crane, 159 Valley
Sullivan, J. O., 48 Jackson
*Sullivan, Michael (Stone), Scotland
WINDSOR—Griswold, Charles
Tryon, Watson & Son
WINSTED—†Beckley, E. R.
Beers, N. D.
*Carey, Jos. F. (Stone & Brick)
Johnson, H. V. (Stone)
Roe, John W.
Ryan, James

DELAWARE.

DOVER—Clifton, James A.
Clifton, L. W.
Cohee, John
Fisher, William
†Flowers, James C.
Hirons, Jas. A.
†Johnson, Asa E.
Klingher, J. H.
LEWES—Virden, Wm. H.
MILFORD—Shockley, Wm. S.
Trnitt, P. C.
WILMINGTON—*Anderson, Chas. E., 3 E 13th
†Austin, William B., 1018 West
Baker, Geo. P., 1112 Shallcross av
Barkley, N. Smith, 1324 W 5th
†Brown, Wm. J., 704 Van Buren
Chandler, Philemma, 907 Monroe
*Charles, Geo. S. & Son, 10 W 8th
Cloud, Newton H., 1802 Mt Salem 1a
Cornell, Geo. H., 1417 Harrison
*Cox, Canby, 412 Walnut
†Dangel, David & Sons, 506 Van Buren
Donohue, Michael, Holland av
†Downward, Alfred, 716 Shipley
†Eckman, Aument, 1509 Gilpin av
†Fahey, Patrick (Large), 222 N Connell
Fidance, Patrick
†Foult, W. H. & Son, 223 W 10th
†Grubb, M. E. & Co., 714 Kirkwood
†Haddock, Wm. D. & Co., 804 Orange
*Hamilton, J. S., 829 Orange
†Healey, J. E., 223 Harrison
†Horner, Jesse H., 734 Pine
†Jackson, John W., 923 Wilson
†Johnson, Edw., 1503 Rodney
Johnson, J. B., 724 Market
*Jones, Wm. H., 839 Market
Lenderman, Jacob, 7 W 28th
*Lenderman & Bro. (Large Builders), 10 W
†Lewis, Warner S., 606 Orange 8th
Lutton, Norris S., 2612 W 18th
†Lynch, Henry S., 409 Orange
May, W. Howard
†McCanley, Geo. W. Co. (Inc.), 108 W 8th
McKee, Geo. S., 2107 Washington
†Manufacturers' Contracting Co., 1005 Market
†Melvin, Thomas H., 525 E 9th
Neary, Patrick
†Newman, Samuel J., 1702 Shallcross av
Phillips, J.
*Reed, A. S. & Bro. Co. (Brick) (Large
Builders), 815 Shipley
†Richman & Prouse Co., 22d & Pine
*Roney, Thomas J., 808 W 8th
†Ryan & Kelly, 105 E 2d
†Samworth, Thomas, 1508 Lancaster av
Schoolmaster, Wm. A.
†Scott & Son, 2006 Delaware av
Seeds, H. B., 1714 Broome
*Seth, Chas. H., 108 E 5th
†Sexton, Michael, 804 Van Buren
*Sharp, Elwood, 1240 Elm
*Simmons & Bros., 102 W 5th
Stewart, Hy.
†Tarbitton, Edmund S., 402 Harrison
Tatnall, Brown Co.
Tindall, Charles H., 417 E 7th
†Tindall, Wm. C., 511 W 9th
†Tribitt, Charles H., 1303 W 8th
Weldin, Chas. P.
†Wier, Thos. J., 1428 Van Buren
Wilmington Construction Co., 222 Connell
Wills, F. K. Construction Co., 109 King
Winslow, Jacob D.
†Wood, Marlon N., 837 Orange

DISTRICT OF COLUMBIA.

ANACOSTIA—Beers, Albert C., 201 Fillmore
*Kearns, S. (Stone), 445 Monroe
Roth, Julius, 224 Monroe
WASHINGTON—†Anderson, Notley, 1402 G,
†Appby, W. B., 923 8th, N W N W
†Bache, Arthur J., 1225 11th, N W
Bailey & Wren, 1430 M, N W
†Barkman, Geo. W., 721 A, S E
†Bieber, Henry, 503 M, S W
†Blethyn, Benj., 803 Oregon av
Blundon, F. A., 13th & U, N W
Boyer & Smith, 1204 C, N W
†Brennan Construction Co., 1204 C, N W
Breuninger, L. E., Majestic Apm't House
Brinkley, S. J., 1322 S Capitol
Brown, H. Z., 920 M, N W
†Burden, Joseph, 609 G, N W
Building & Supply Corp'n, Home Life bldg
Burch, Jno. A., 1532 Wisconsin av, N W
Burgess & Parsons, 627 F, N W
Bursey, I. B., 615 5th, N E
Campbell, C. A., 1316 G, N W
Carmondy, F. S. Construction Co., 1413 G
Carr & Moran, 614 E, N W
Carter, Leroy H., 225 1st av, N W
†Cassidy, Chas. J., N Capitol & K
*Cissell, D. T., 1220 11th, N W
Clark, J. Blake, 1006 13th, N W
†Collins, Chas. D., 719 18th, N W
†Corbett, Geo. W., 507 9th, N W
†Cowsill, Arthur, Colorado bldg
†Cozzins, Richard E., 1917 6th, N W
De Baum, Jno F., 2145 Decatur, N W
†Denham, Chas. S., 820 19th, N W
Denham, Lewis C., 909 20th, N W
Dunn, J. M., 7th & Pa. av, N W
†Eckhardt, Nicholas, 1140 18th, N W
†Edmonston, Samuel H., 611 G, N W
Emmert, Louis H., 1921 19th, N W
Epsey, Ferdinand, 14th & G, N W
Elmore, E. C., 712 6th
†Emmert, Louis H., 1110 5th av, N W
†Fahey & Co., Washington Sav Bank bldg
†Fersinger, Peter, 1 N, N W
*Fitzpatrick, Jas. (Brick), 116 C, S E
Fuller, Geo. A. Co. (Large), Hibbs bldg
Gibbons, Jos. H., 1314 N. C. av, N E
Gilbert, Edwin & Co., 1701 Mass. av, N W
Graham, Wm. I., 1407 Q, N W
†Hanvey, Frank L. (Large), 213 12th, N W
Haisley, J. M., 1306 14th, N W
Henderson & Bro., New Senate bldg
†Henderson, Thos. C., 224 12th, S E
Herriman, M. H., 224 12th, S E
Hobbs, J. W., 1336 H, N W
Holtzclaw & May, 2500 Ontario rd
Holtzclaw, W. B., 1705 Pa. av, N W
Horton, Geo. P., Jr., 13th & Kenyon
†Hough, Geo. C., Corcoran bldg
Hull, Henry, 1418 F, N W
Jennings & Scott, 9th & Jefferson, N W
Jett, Theodore, 608 F, N W
Kemp & Kennedy, 1623 L, N W
†Kennedy & Davis Co., 1413 G, N W
†Kesler, Wm. H., 215 New Jersey av, NW
†King, Chas. W., 1413 G, N W
Knell, Benj. B., 221 John Marshall
†Landvoigt, Edward, Bond bldg
†Lane, Jno. H., 1725 3d, N E
†Langley, Chas. A., 310 12th, N W
Lankford, J. A., 317 6th, N W
Larcombe, Jno. S., 808 17th
Leaman, Lafayette, 1004 9th, N W
†Lewis, Timothy L., 51 U, N W
*McAnliffe, F. D. (Brick), 500 D, S E
McCaul, Chas. Co., Marine Barracks
†McCollum, Edw., 4 I, N W
†McCray, Wm. H., 930 F, N W
McGee, Lawrence, 1515 Gales, N E
†McGregor, John, 729 12th, N W
McIntosh, James, 1518 E Capitol
†McIntyre, John H., 3221 I, N W
McKay & Morris, 1333 G, N W
†Macarty, Daniel J., 1419 G, N W
†Maloney, William E., 11 5th, N E
Mandley, Jos. C., 230 H, N W
*Martin, Jas., 1333 S Capitol
†Marshall, Jas. L., 614 13th, N W
Matthews, L. J., 814 14th, N W
†Melton, T. H., 3d & B
†Milburn, Harry E., 1743 N Capitol
†Millar, Alex., 1215 Ohio av, N W
†Montgomery, Victor F., 1112 4½, S W
Mooney, W. E., 721 14th, N W
Newman & Smith, Colorado bldg
†Newton, Geo. P., 1006 F, N W
Noel Construction Co., Mass. av & Decatur
Nolon, John H., 1413 G, N W
Norcross Bros., Colorado bldg
†Parry, R. L., 1404 Pierce pl

†Parsons, James L., E Capitol & 1st
 †Pavariui, Isadore, 814 18th, N W
 Piper & Kenyon, 729 15th, N W
 †Plumley, Samuel M., 431 Washington, NW
 †Potts, F C., 1633 O, rear
 †Prescott, Samuel J & Co. (Large), 700
 13th, N W

†Pumphrey, Geo. C., 414 7th, S W
 †Richardson & Burgess (Inc.) (Large), Colo-
 Sanford, H. V., 1321 G, N W rado bldg
 Scaggs, R. A., 1225 Franklin, N E
 †Schaffert, John L., 427 I, N W
 Schmidt & Brandt, 1502 E, S E
 Schneider's, C. A. Sons, D bet 18th & 19th
 †Scott, John H. (Brick), 320 10th, N E
 Sonnemau, F., 1205 Rhode Island av, N W
 Soran, Chas. H., 1409 New York av, N W
 *Sorrrell, Richard H. (Brick), 329 N, S W
 Sorrell, Wm. H., 18th & Lamont, N W
 †Speir, W. E. (Large), 1342 New York av
 †Spencer, Wm. S., 930 F, N W
 Spitzer, G. C., Home Life bldg
 Stannard, Ambrose E., 13th & B, S W
 Taplin Building Co., Vermont av & K
 Thompson, F. I., 3434 Brightwood av
 Thompson-Starret Co., Union station
 †Turuer, Watkins L., 12th & G, N W
 †Turton, James E. & Son, 1007 K, N W
 Van Ness, E. M., 625 F, N W
 Volland, Chas. D., 418 L, N W
 Volland, Wm. A., 1315 V, N W
 Wagner, Frank L., Home Life bldg
 †Walker, Jno. T. & Son, 1920 N, N W
 Walker, Littleton W., Colorado bldg
 Wardman, Harry, 717 14th, N W
 Wells Bros. Co., B & O yd
 Wickline & Campbell, 1411 G, N W
 Wynkoop, J. A., 628 F, N E
 *Yost, Jno. C., 715 9th, N E
 †Yost, Wm., 1002 Pa av, S E
 Zepp Bros., 1305 F, N W

FLORIDA.

FERNANDINA—Mann, John R.

JACKSONVILLE—†Blackmer, F. C., Dyal-
 Upchurch bldg

†Boden, J. H., 329½ W Forsyth
 Brown, Q. E., May ur Gilmore, R
 †Boykin & Burwell, 107 W Forsyth
 †Cotter, Wm. T. (Large)
 †Hadlow, W. T. Co., 510 West bldg
 †Halsema Woodcock Const. Co., 403 Main
 †Hammett Contracting Co., 1027 Main
 †Jackson, H. H. (Large)
 †Kooker, J. H., 35 W 5th
 †Lyttle, Wm. H., 720 Park
 Onley, J. E., 41 W Union
 †Palmer & McKenzie (Large), 426 W Forsyth
 †Richardson, W. P. & Co., 128 E Bay
 †Silsbe, Richard, Jr., 11 Livingston bldg
 †Smith & Brinkley, 28 E Bay
 †Swisher & Demere, Placide bldg
 Taylor, Dennis, 536 W Union
 †Yates, Henry H., 317 W State

KEY WEST—Kerr, Wm. R.

LAKE CITY—Heusley, J. W.

MARIANNA—Hood, John W.

ORLANDO—Mathews, T. W.

PENSACOLA—†Clubbs, A. V. (Large)

Wills & Broughton

ST. AUGUSTINE—McGuire & McDonald

TALLAHASSEE—†Gilmore & Davis

TAMPA—†Cole, W. V.

†Detwiler, J. H.

Drew, J. H.

Kendrick & Levick

Riden, H. B.

†Shaw, A. L.

Wittmeyer, C. E.

GEORGIA.

ALBANY—†Leonard, F. B.

Smith, C. D.

AMERICUS—†Americus Construction Co.

ATLANTA—†Aikens, E. L. & Co., Inman bldg

Allen, D. C., 12½ N Forsyth

Allen & Hall, Eng.-Am. bldg

Apperson, J. A., 503 Empire

Bailey, J. H., 350 Ashby

*Bensel, Wm.

†Brown, I. N., Peters bldg

†Brown, J. T., Peters bldg

†Clayton, G. A., Austell bldg

†Corbally, J. A., 126 Windsor

†Donaldson & Pearson, 33 Ivy

†Fischer, J. A., 164 Whitehall

Fitts, E. B. & Co., 818 Austell

Flindt, Wm., 113 Pullman

†George, W. H., Prudential bldg

*Hamilton, Alex. & Son, 67 S Pryor

†Harrison Bros., 176 Crew

Havril, J. J., 68 Lee

*Heifner, F. P., Peters bldg

Hicks, G. W., 40 Trinity av

†Higdon, J. F., 406 Capitol av

†Holder, Allen & Co., Peoples Bank bldg

Hudson, B. E., Peters bldg

Ittner, Geo., Prudential bldg

†Ittner, N., Prudential bldg

Jenkins, D. S., 318 Washington

*Lee, D. J., 141 Marietta

Mathews, J. H., 134 Crew

*Miles & Bradt Co., 800 Austell bldg

*Ramsay-Uhrig Stone Co. (Stone), Austell

†Sanders & Warner, 40 Forsyth bldg

Short, E. P. & Son, Austell bldg

Slater, A. J., 136 Rawson

†Street, G. T., 148 Windsor

†Wells & Gilbert, 84 N Broad

†Wesley, P. J. & Son, 218 Peters blk

West, D. T. & Co., Caudler bldg

Williams, H. A., Fourth National Bank bldg

AUGUSTA—Branch, F. P., 573 Broad

*Brown, T. O. & Co. (Brick), 322 Telfair

†Burton & Brown, 907 Telfair

†Cope, Fred'k, 207 11th

Daly, T. J., 612 13th

Davis, Abram, 110 Jones

Denning, Geo. A., 207 Greene

Hite, W. H.

Industrial Lumber Co., N. Augusta

Jones, W. W., 217 6th

Little, A. J., 15th & Exposition av

MacMurphy, Chas. L., 441 Calhoun

†McKenzie, Jno. H. Sons, 459 Broad

McKeon, I. I., 244 Ellis

Palmer & Crooks, 1025 8th

Rowland, A. K., Walton way

Shaw & Barnes, 1007 Broad

Sibert, Jno. W., 1425 May av

Toale, C. D., 1905 Greene

Woodward Lumber Co.

BRUNSWICK—†Anderson, W. C.

Baldwin, J. C.

†Bowen & Thomas

†Conzelman, J. G.

Greenfield, W. H.

COLUMBUS—Callahan, A. R., 1336 4th av

†Foster, D. C., 412 9th av

Jones, E. A., 506 5th av, G

Lumsford, W. C., 15th & 8th av

†McCraney, J. A., 1329 E 20th

Williamson, W. H., 1320 4th av

Wood, T. W., 1232 6th av

†Young, F. E., 1213 2d av

CORDELE—Little & Phillips

GRIFFIN—Westbrook, Jno. S.

MACON—†Beeland, W. J., 220 2d

Breedlove, W. B., 21 Wall

†Cutter, M. H., 314 Cutter's Creek, E M

†DeHaven, Wesley W., Rogers av, Vineville

†Ellis, J. E., 456 2d

†Fulghum, J. E., 105 Cleveland av

†Griffin, J. F., 250 Rose, W H

Jones Bros., Commercial Bank bldg

Ladson, Peter, 517 Wall

McBride Bros., 406 1st

McKenzie's, J. H. Son, 353 3d

†Newbanks, J. D., 722 Spring

†Smalling, Robert H., 2515 2d

MARIETTA—Black, J. J. Lumber Co.

Meinert & Whitlock

ROME—Patton Sash, Door & Building Co.

SAVANNAH—Burt, Edw. W.

†Christian & Hall, 746 Wheaton

†Eason, J. R. & Son, 316 Waldburg W

†Killorin, E. Co.

†MacMahon, J. J. & Son

Nessler Contracting Co.

Steinacker, G. T.

†Stunt, R. N., 113 President E

†Ward, H. G., 123 Duffy W

†Ward, Henry M., 319 Duffy W

THOMASVILLE—Arnold, H.

Gribben, James

WASHINGTON—Washington Mfg. Co.

Williamson, P. E.

IDAHO.

BOISE CITY—Allen, I. J.

*Finnegan, Thomas

†Hall, I. M.

†Houtz, William

*Jellison, John (Stoue)

Kent & Montgomery

Kuldson, L. P.

Leonard, John

Little, C. B.

McLean, J. W.

†Michael, Frank

Seaman, Uriah

*Sullivan, J. M.

Whiteway, A. S.

LEWISTON—Madgwick, H. T.

ILLINOIS.

ALTON—Ryan, David

Schuelle, Henry

Watson, Hy.

Wuekner, J. J. & Son

ANNA—Shipley, Jas. M.

AURORA—†Briggs, E. D.

†Couklu Construction Co.

Gardner, W. E.

Hankes, P. F.

*Heitkotter & Sons

LeCompte, Louis

Little, James

McNair, J. J.

Sylvester, Lewis & Son

Tolman, J. H.

BATAVIA—Collins, Cornelius

BELLEVILLE—†Baumann Bros., 717 S Jackson

†Blomenkamp & Co., Church & 1st

Bray Construction Co.

Dittmann, W. H., 412 S Church

†Ehinger, Emil

†Epple, H.

†Faulbaum & Sontag

Faulstich, Wendelin

†Geyer, L. F.

Hilpert & Bauer

†Hoeffken Bros.

Kuebelkamp, O., 211 Abend

*Lewis & Kitchen

Miller, Jno. H., 220 Portland av

Reeb, Philip & Bro., 341 Centreville av

†Reis, Val. & Sons

†Rodenmayer, V.

Schopp, Henry

Sefert, Edw. A.

†Stauder, Adam

†Storck, G. P.

*Teufel-Kloess Co.

BLOOMINGTON—Armstrong, H.

†Cassell, Chas. M.

†De Bruler, E. M. & Son (Large)

Doty, H. & Son

†Evans, J. W. Sons Co. (Large)

Gildner, August G.

†Hall, H. B.

†Harrop & Cooper

†Koepke & Hall

*Lawler, H. C. (Brick)

*Leech, R. K., 607 E Jefferson

†Meier & Dambold

*Rhodes, Robert H., 1013 W Water

†Rowley, E. J.

Russell, George A.

†Stine & Stine

*Sylvester, T., 101 W Ash (Normal)

†Thomas, John E.

*Walsh, Michael (Stoue)

*Wilson, S. W. (Large), 612 E Taylor

†Zeigler, John P.

BYRON—Sherman, Geo. W.

CAIRO—Cherry, F. W.

†English, J. E.

†Ferguson, Thomas

†Kelly Bros.

†Madden, John

†Miller, Jas. A.

†Schatz, Wm.

Serbian Bros.

CANTON—*Hallar, John (Brick)

†Hallar, Wm. H.

CARBONDALE—Eaton, Geo.

Patrick & Eaton

Young, Grant

CARLINVILLE—Phelps Harvey

CARROLLTON—Widowson, J. M.

CENTRALIA—Legreid, S.

Pfeiffer, F. L.

CHAMPAIGN—English Bros.

Stewart, W. H.

CHARLESTON—Harding, W. L.

CHICAGO—†Abbau, Geo., 3549 S Western av.

†Adler, Chas., 214 E Chicago av

†Adsit, W. R., 716 W Madison

†Allan, George & Co., 725 W 69th

*†Alling Construction Co. (Large), 72 Madi-

†Allison & Golbeck, 115 Dearborn

†Almquist, Jno. K., 735 W 61st pl

†Anderson, A., 1244 Argyle av

*Anderson, A. & E., 131 LaSalle

†Anderson, Joseph, 1715 Brier pl

</

†Barr, Jno. F., 3447½ Indiana av
 †Barry, W. H., 164 Dearborn
 Barry, M. & Son, 220 Illinois
 †Bartell, William, 161 E Washington
 †Bartzen, Peter, 2222 Lincoln av
 †Bandler, Geo., 5141 S Campbell av
 †Beahan, Jno. J., 168 E 53d
 †Behnk, R. O., 1108 Greusshaw
 †Behrer & Benson, 220 63d
 *Bellic, Avila M., 5230 S Morgan
 †Bennes Bros., 504 Blue Island av
 †Bergman, Fred, 11626 Michigan av
 †Bernritter, Henry, 79 Dearborn
 †Beste & Casati, 1231 George
 †Birkhoff, Geo., 577 W Adams
 *Bishop, Harry A., 218 LaSalle
 Blacklock, Andrew M., 174 E Van Buren
 †Borner, B. K., 23 N Green
 †Bostrom & Olsen, 1988 N Clark
 *Brahm, Valentine C., 285 N Homan av
 †Brandt, Frank E., 1156 Wilcox av
 †Brinkman, William, 137 School
 †Brisch Bros., 1011 Douglas blvd
 †Bristol, Lucien D., 140 Dearborn
 Brown Bros., 380 Dearborn
 †Brown, Chas. H., 859 Walnut
 †Brown, Wm. H., 917 W 53d
 Brust, Michael A., 406 S Robey
 †Buck, A., 289 41st
 †Bulley & Andrews, 115 Dearborn
 *Burlin & Wagner, 272 W Lake
 Burns, Thos., 687 W Lake
 †Burrell Engineering & Construction Co.,
 †Busch, Rud. J., 574 E 47th 263 La Salle
 †Buskett, Frank E., 3509 Calumet av
 †Byrne, Thomas, 5502 S Halsted
 †Caddick, Thomas, 1522 Milwaukee av
 *Cameron's, W. H. Sons, 21 Myrtle
 †Campbell, Archie M. Co. (Large), 132 La-
 †Campbell, J. Albert, 145 La Salle
 †Campbell, Mordock, 112 Clark
 †Carlsen & Lynn, 6542 Ross av
 †Carlson, Albert, 203 E 37th
 †Carlson, C. A., 2068 W 25th
 †Carson, C. E. & Co., 159 La Salle
 *Cassidy, Geo., 603 S Springfield av
 †Chalstrom, A., 180 E 53d
 †Chamberlain, T. T., 238 E 33d
 †Champion, Henry, 350 Park av
 *Chapman, Charles, 84 LaSalle
 †Chegwidder, Thos., 7923 Lowe av
 †Chelius, Fred'k N., 7632 Bond av
 †Chevalier, Louis G., 119 S Paulina
 †Chicago Building Repair Co., 79 Dearborn
 *Christensen, Christian, 7316 Yates av
 †Christy, G. R., 266 E 35th
 †Clark, A. R. & Co., First National Bank
 bldg
 †CLARK, C. EVERETT CO.
 (Large), 100 Washington. (See adv. in-
 dex, end of book)
 †Clark Construction Co., 4 Sherman
 †Clark, J. J., 2513 Cottage Grove av
 †Clark, W. Irving (Large), 159 La Salle
 †Clark, Walt T., 188 Madison
 †Clark & Trainer, First National Bank bldg
 †Clarke, Harry M., 5227 Woodlawn av
 *Clifford, Thos., 655 37th pl
 Coatsworth, Leon, 2475 N Hermitage
 †Cockburn, James, 205 E 44th
 Cohlgraff, Henry, 208 Webster av
 Colby, Whitman, 6141 Greenwood av
 †Collins, Chas. W., 61 S Paulina
 †Collins & Morris, 138 Wash
 *Congress Construction Co. (Railroad, Gov-
 ernment & Public Buildings), 140 Dearborn
 *Conley, James, 105 Ashland
 †Conran, Thos. & Co., 397 W Kinzie
 †Constantine, Albert W., 95 Washington
 †Coons Bros., 6304 Jefferson av
 Cooper, Douglass A., 2725 Calu av
 †Cooper, S. T., 204 Dearborn
 †Cordell & Newell, 248 Orleans
 †Cordes, Henry, 163 S Hoyne av
 †Cormack, Jos., 145 La Salle
 *Couleur, John B., 679 N Maplewood av
 †Crate, Jno. E., 1232 Humboldt boul
 Crawford, A. M., 55 LaSalle
 *Crear, Wm., 99 W Randolph
 *Crilly, Daniel O., 6527 Intleside av
 *Crilly, Frank L., 23 Crilly ct
 Crook Edwlu (Large), 4004 Cottage Grove av
 †Crown Construction Co. (Large), 677 W
 Van Buren
 †Cullen, Frank J., Chamber of Com bldg
 *Custodis, Alphons Chimney Construction
 Co., 204 Dearborn
 *Daegling, Arthur V., 9000 Honston av
 †Dameier, Gustave A., 354 E 62d
 *Danielson, Charles O., 10061 av L
 †Danielson, T., 151 W Vanburen

*Davidson & Russell, 95 W Washington
 Dandelin, Chas., 1695 W 19th
 Dean Construction Co., 435 E 47th
 De Boer, Germ, 222 Washington boul
 Degerman, Axel, 84 La Salle
 *De Laby, Julian A., 776 N Fairfield av
 †Denman, Jno., 5003 Lake av
 †Denton, John, 3564 Cottage Grove av
 †Desmond, Jeremiah F., 375 E 40th
 †Desmond, Owen E., 2106 Wabash av
 †Dettmers, Hy., 442 N Clark
 †Deutschman, Charles, 133 N State
 De Young, Hy. J., 11227 Michigan av
 Diegley, Albert F., 178 E 37th
 †Diehl, John E., 450 W 63d
 Dippold, Chas. F., 5323 Jackson av
 †Doherty, Frank E. (Large), Chamber of
 Commerce bldg
 †Doolan Bros., 4710 Wabash
 †Dowling & Rutherford, 99 Rand
 †Doyle, David H., 888 Douglas boul
 †Dresser, Van S., 108 LaSalle
 †Duclo, Henry, 3121 S Green
 †Dunbar, E. L., 113½ Lincoln av
 †Duncanson, H. W., 108 Dearborn
 †Dn Plissis, Eugene, 811 E 64th
 †Du Plissis, Jos. L., 4453 Oakewald av
 Earl, Johnson, 5521 W Ontario
 †Edmunds, Mfg. Co., S Robey & Washburne
 †Egarter, J. G., 12 Throop av
 †Ehrhart, W. G., 30 E 39th
 †Eilenberger, H. Co., 153 LaSalle
 *Eilenberger & Meiling, Oxford bldg
 †Eisenberg, J. W., 56 S Morgan
 †Engel, Frank, 12007 Union av
 †Englar, Wetherpoon Co., Monadnock bldg
 †Erickson Bros., 84 La Salle
 Ericson, Axel L. (Large), 145 La Salle
 *Ericsson, Hy. & Jno., 84 LaSalle
 †Erikson, Oscar, 87 E Washington
 †Ernst, Albert P., 604 Washburne av
 †Fader, Alexander, 6400 Ingleside av
 †Faust, Andrew, 835 N Park av (A)
 †Fergus, Jno. Q., 3114 Vernon av
 †Findlay, Alexander, 245 W 70th
 †Findlay, John S., 7006 Perry av
 †Fischer, Joseph B., 7455 Parnell av
 Fitton, Joshua, 80 E 35th
 *Fitzgerald, John E., 593 S Spaulding av
 *Flick, John P., 1240 Montana
 Forrer, Hy., 3904 Indiana av
 †Forst, Anton, 1152 S St Louis av
 †Forster, George, 398 Belden av
 †Forsyth Building Co., 84 La Salle
 *Foster, Thos. D. & Son, 291 Millard av
 *Fox & Klippel, 324 Dearborn
 Franck, Chas. H., 66 Siegel
 †Frenzel, Otto, 1696 N Cal av
 †Frost, Chas., 15 S Clark
 †Fuller, Geo. A. Co. (Large), Marquette bldg
 †Furst, Louis, 70 Clifton av
 †Gahan & Byrne, 4193 S Halsted
 †Galbraith, Thos. B., 2130 Indiana av
 †Gardner, J. T., 153 21st
 †Garean, Cesaire, 875 W Harrison
 †Gareau, Gideon G., 875 W Harrison
 †Gawne, Daniel, 3133 Princeton av
 Gebhardt, Hy., 333 5th av
 *Gebhardt, Jno. & Son, 160 Orchard
 *Gerten, Jno., 561 Cleveland av
 †Gilbert, Chas. W., 303 N Willow av
 *Gilbert, Harry S., 232 Lunt av
 †Gilmore, Wm. W., 76 N Franklin
 †Gilsdorff, Henry & Sons, 163 Randolph
 †Gindele, Chas. W. Co., 3333 La Salle
 †Gisvold, E., 66 Churchill
 †Gitzen, Matthew, 5542 Union av
 *Glass, Chas. B., 2853 N 44th av
 Glindkamp, Herman, 1980 N Halstead
 †Goldacker, Herman, 395 W Ravenswood pl
 †Goldstein, Max, 774 43d
 †Goodman, David, 855 E 49th
 *Gomoll, Ernest W., 316 Lowe av
 †Goode, A., 44 LaSalle
 *Goodrich, Chester H., 8833 Wallace
 †Goodwin, Alfred B., 709 W 54th pl
 †Gore, W. K., 245 LaSalle
 †Grace, Wm. Co., Polk & Chicago river
 *Grady, Michael, 379 S Winchester av
 Grant, Frank W., 181 Park av
 †Gray, A. D., 293 Odgen av
 Gray, Nathaniel B., 12 LaSalle
 †Gregory, Jno. R., Hamlin & Park avs
 †Gressman, Herman, 3625 S Hamilton av
 †Griffiths, Jno. & Son, Madison & Dearborn
 †Gross, Jno. W., 131 La Salle
 *Grzegowski, J. V., 826 George
 Guthrie, Robert M., 1556 Park av
 †Haigh, Jos., 204 Dearborn
 †Hall, Moses A., 3080 Indiana av
 †Hamilton, Jno., 857 72d pl

*Hammond, Jno. & Co., 95 Washington
 †Hansen, Andrew H., 323 92d
 Hansen Bros., 445 N Clark
 †Hanson Bros., 59 Dearborn
 †Hapke, Theodore, 1223 Monaduock blk
 †Haskins, John H., 1358 Wilton av
 Hawes, Albert E., 432 N Pine av
 †Hay, James, 183 E Jackson boul
 †Hayes, D. H. Co., Marquette blk
 †Heagstedt, A. L., 1805 Briar pl
 †Heath & Port, 2810 S Park av
 *Heck, Joseph D., 1311 W 104th
 *Heinkel, Adolph, 10437 Avenue N
 †Henderson, Erin D., 12134 Eggleston av
 †Hendricks, Chas. H., 6221 S Ashland av
 †Hennessy Bros. Co. (Large), 95 Dearborn
 †Henney & Amman, 57 W Jackson boul
 †Herzog, Louis J., 4418 Wabash av
 †Hibbs, Wm. R., 86 Custom House pl
 *Hill, Albert, 217 E 37th
 Hill, Chas. C., 103 S Campbell av
 *Hinchliff, Geo. Co., 188 Madison
 †Hodges, T. M. L., 189 32d
 †Hodgson, G. S. & Son, 88 Evanston av
 †Hoffman, W. L. & Co., 246 W 47th
 †Holmgren, Albert N., 914 Sheffield av
 †Homewood, Harry, 112 Clark
 Hoppe, Gnstav, 1282 S Lawndale av
 †Horsman, Edw., 16 S Jefferson
 †Hough, A. G., 6750 Emerald av
 †Hubbell & Son, 3446 Indiana av
 *Hughes, Wm., 243 S Lincoln
 Hughes & Garrity, 90 E Chicago av
 †Hunter, Samuel M., 5643 Jefferson av
 †Huntsman, Calvin, 168 S Jefferson
 †Hyink, Edw., 487 43d
 †Hynes Bros., 3624 State
 †Hynes, Horace J., 2734 State
 †Ingham, M. M., 495 E 63d
 †Ivens, Edw., 1055 N Halsted
 †Iverson, E. & Sons, 189 LaSalle
 †Jackson, Wm. S., 6643 Ingleside av
 Jaergermann, Aug., 1343 E 75th
 *Jay, Aaron, 47 S 40th ct
 *Jay, Aaron, Jr., 47 S 40th ct
 †Jeffrey, John, 79 Dearborn
 †Johnson, Arvid, 6517 Rhodes av
 †Johnson, Chas., 1243 W 59th
 †Johnson, E. J., 1315 Newport av
 †Johnson, G. A. & Son (Large), 153 LaSalle
 †Johnson, Jno. A., 20 S Hamilton
 †Johnson, John H., 324 Dearborn
 †Johnson, Jno. L., 460 Wellington
 †Johnson, N., 330½ N State
 *Johnson, Thos., 804 W 62d
 †Jolley, C. E., 952 W Madison
 †Jones, F. C. & Son, 68 E 26th
 Jones, Griffith, 438 W Jackson boul
 Jones, R. Heber, 6936 Princeton av
 *Jones, Wm. R., 1275 W Vanburen
 *Josliu, Burt B., 3821 Elmwood av
 Juug, Peter F., 365 Burling
 †Jyrch, Karl E. (Large), 694 Fulton
 *Kalchbrenner, Jno., 4752 Princeton av
 †Kasofsky, Jacob, 473 W 12th
 †Kaup, Henry W., 1031 N Kedzie av
 Kavanagh, Jno., 931 Hood av
 Kayerod, William, 1180 Lexington
 †Keating, Thos., 197 S Centre av
 †Kebil, Jos. B., 12026 Eggleston av
 †Keck, James M., 7545 Coles av
 *Killeen, Jno., 742 W 48th
 *Kipp, Fred & Co., 1459 Newport av
 Kirsch, Fritz W., 598 N Clark
 †Klajda, Frank, 597 Dickson
 †Klasseu, Michael, 379 Orchard
 †Kling, Chas., 1526 Aldine av
 *Knowe, Peter, 401 Chicago Opera House
 *Koch, Jno., 979 N Sawyer av blk
 †Kranse, William, 333 W Fullerton av
 Kreamer, Fritz G. H., 549 N Clark
 Krom, Arthur E., 2270 Wilcox av
 *Krnse, F. A., 6227 Carpenter
 †Knmke, Paul, 5635 Loomis
 *Labinsky, C. W., 440 Warner
 †Ladd, Edward, 5507 Iowa
 †Laue, A. W., 153 La Salle
 Langeloh, John, 571 N Lincoln
 †Langston, Jas., 3745 Cottage Grove av
 Larocca Bros., 349 Noble
 †Lanquist & Illsley Co. (Large), 393 N Clark
 *Larocca Bros., 349 Noble
 *Laschetzke, Frank, 3118 Lowe av
 †Lauk & Miller, 1664 Greshaw
 †Lauer, Frank C., 1327 S Millard av
 †Leach, L. L. & Son, 204 Dearborn
 *Leafgreen Construction Co. (Large), 145 La
 Salle
 *Leafgreen, Hans (Large), Chamber of Com.
 †Ledgerwood, A. J. C., 184 LaSalle bldg
 †Lee, Jacob N., 4105 Cottage Grove av
 †Leggc, David E., 1341 W Ravenswood pk

*Lewis, E. & Son, 1907 Indiana av
 †Liljestrom, Aug., 5752 Greene
 †Lindstrom, F., 221 E 47th
 †Lobstein, Jno. G. Co., 459 W 21st
 †Londelius, C. A., 5850 Indiana av
 †Lord, Eugene L., 6731 Parnell av
 *Lotz, Philip, 58 Wabash av
 †Love, Frank, 6703 Perry av
 Lowes, F. J., 375 S Clark
 *Lund, Abraham, 271 W Huron
 †Lutz, John, 5629 Wentworth av
 †Lynch, Jas. J., Chamber of Commerce bldg
 †Lynch, T., 147 Washburne av
 †Lyons, John J., 1801 Lexington
 †McArthur, P., 340 5th av
 McAvoy, Jas. B., 5144 Indiana av
 *McCall Bros., 134 Monroe
 †McCarthy, J., 312 E 57th
 †McCumber, Wm., 6608 Rhodes av
 †McDermott, Jas. J., 398 S Troy
 †McDonald, D. Y., 1440 Wabash av
 †McDonald, Henry, 3238 Wentworth av
 †McDowney, S. C., 192 E 40th
 †McGarry, John A. & Co., 348 Sheffield av
 *McKay, Donald, 1365 S Harding av
 †McKay, J. B., 20 Colorado av
 †McKeand, Edw., 326 55th
 †McKeown Bros. (Large), 4817 Cottage Grove av

†McLacblan Building Co., Pullman av c
 McLean, M. H., 4221 Lake av 112th (P)
 McLennon, H., First National Bank bldg
 *McMillan, Jas. & Co., 217 Washington
 *McNamara, M., 3621 S Paulina
 McWade, W. J., 204 Dearborn
 †Mace, Harry, Jr., 4233 Lake av
 Machesney, Jno., 185 Dearborn
 †MacPherson, A. Scott, 4340 Champlain av
 †Major & Wheatley, 541 W 69th
 Mabloch, William, 1515 Wabash av
 †Mark, J. P. & Co., 4634 Milwaukee av
 †Marshall, Emery F., 2595 W Ontario
 Martin, G. R. & Son, 1650 N Clark
 †Marvin, B., 608 W 63d
 *Masek, Frank, 1096 W 19th
 †Mason & Hogg, 3846 State
 †Matot, Duff A., 96 Fullerton av
 †Maurer, Samuel, 749 W 61st
 †Mavor, Wm. Co., 164 Dearborn
 *Meagher, Arthur, 6519 Ingleside
 †Meeker, Chas., 2206 Indiana av
 †Meiling & Walther, Oxford bldg
 Menke, Hy., 667 N Lincoln
 Merritt, Charles, 259 Michigan av
 *Messersmith, Geo., 1489 Wellington av
 Meyer, Herman P., 32 N State
 *Miles, Jas. P., 152 S 45th
 Moe, Ingwald, 138 Wash
 †Moeller, Ernst, 5920 Emerald av
 †Mole, Robert, 434 Oakley boul
 †Moloney, Jno., 75 Larabee
 †Moore, Chas. W., 125 La Salle
 †Moore, Jesse H., 1536 Ogden
 *Moorhouse, Jas. F., 1870 N Hamilton av
 *Moreland, Hugh D. Co. (Large), 97 Clark
 †Morley, Wm., 184 Washington
 †Morman, Jos., 5022 Lavin
 †Morrice & Barron, 125 La Salle
 †Morrison, George, 108 La Salle
 †Morse, Allan C., 3503 State
 †Mortimer, Frank G., 184 La Salle
 *Mortimer & Tapper, Postal Tel bldg
 †Mortonson, Robert, 100 Clybourn av
 *Mueller, Carl R., 1395 Rokcby
 *Mueller, Herman, 221 Pine Grove av
 *Mueller, Oskar, 138 Washington
 *Mueller, Paul, 1685 Barry av
 †Mulry, Thos., 26 E 43d
 Nasb Bros. Construction Co., 84 Lasalle
 Nelson, Chas., 192 W Huron
 †Nelson, C. H., 1298 Sheridan rd
 †Nelson, F. P. & Son, Chamber of Com.
 †Nelson, Oscar J., 1539 Kenmore av hldg
 *Nelson & McLeod, 84 La Salle
 Nicely, Geo. W., 6358 Parnell av
 †Nicholson, Thomas, Manhattan bldg
 †Nielsen, S., 424 W 71st
 Nisbet, Alex. L., 164 E Vanburen
 †Norwood, C. L., 190 E 39th
 †O'Brien, Thomas, 3640 Wabash av
 †O'Brien, Wm. D. & Co., 112 Clark
 †Ockerlund, Nils & Son, 88 W Montrose av
 *Ockerlund, S. E., 2823 N Hermitage av
 *O'Connell, John, 458 W Congress
 *O'Donnell, John, 363 Bowen av
 †Olson & Larsen, 3941 Indiana av
 †Orser, D. M., 366 37th
 †Oser, Frank, 1071 W Monroe
 †Oxnam, William B., 435 Englewood av
 †Paddock, R. A. & Co., 115 Dearborn
 †Palmer, Frank, 3662 Indiana av
 †Parker, Geo. L., 4818 Calumet av

*Patterson, Wm., 1732 Fulton
 †Paulsen, Edw., 1103 W 13th
 †Pauly, Nicholas, 1097 Maple sq
 *Pease, Frank J., 2767 N 42d ct
 †Perkins, Clarence, 1901 W Lake
 †Peters, A. E. & Co., 126 Quincy
 †Petersen, F. E., 202 E 25th
 †Petersen, H., 3226 State
 †Petersen, John C. M., 1099 W Fullerton av
 †Petersen, Jno. P., 5539 S Halsted
 †Petersen, Nils H., 1562 N Kedzie av
 Peterson, Chas. J., 379 Bowen av
 *Peterson, John & Co., 153 Lasalle
 †Petterson, Erick G., 5762 Wentworth av
 †Picl, Jos., 2150 W 51st
 †Pilditch, Edwin J., 5722 5th av
 *Pillinger Bros., 109 N Park av
 †Polakow, Samuel, 1 Macalister pl
 †Port, Geo. L., 6748 Yale av
 †Potter, Delbert C., 2503 N Rohey
 *Powers, M. F., Exchange bldg
 *Prescher, Jno., 828 Girard
 †Probeck, John, 344 S Winchester av
 †Pruitt & Moore, 125 La Salle
 †Prussing, Geo. C., Chamber of Com. bldg
 *Puvogel & Schiddel, 1429 Dakin
 †Ramcke, John, 112 Clark
 *Rasmussen, Hans, 444 W Division
 †Pasmussen, N. A., 225 E 46th
 †Rauen, Matthew, 615 Edgewater pl
 †Read, Chas., 159 La Salle
 †Reagle, Frank A., 12000 S Halsted
 †Reininga Bros., 7243 Green
 †Republic Cons. Co., 108 Lasalle
 *Reynolds, Cbas., 208 Thomas
 Reynolds, Wm. J. Co., Cham. of Com. bldg
 †Richards, Owen D., 264 Oakley av boul
 †Rix, P. K., 430 Langely av
 *Rodatz, Jacob, The Rookery
 †Rogan, J. J., 776 E 43d
 *Rooke, Pearson, 2425 Calumet av
 †Ross, Alex. M., 1205 Monadnock blk
 †Salomon, W. E. & Co. (Large), 159 La Salle
 †Salomon, M. Co., 207 Dearborn
 †Salomon, Wm. E. Co., 159 Lasalle
 †Samuelson, And'w J., 283 Belden av
 *Sanders, David W., 4069 Princeton av
 *Schaefflein, B., 7024 W 53d pl
 †Scharmer, Jacob, Chamber of Com. bldg
 *Schleyer, Chas., 6919 S Elizabeth
 *Schlueter, Henry W., 204 Dearborn
 †Schneider, George, 2441 Wentworth av
 Schroll & Behr, 638 N Wells
 †Schultz, Hy., 84 5th av
 Schumaker, F. C., 195 E 31st
 †Scott, James R., 4335 Calumet av
 †Scott, John, 4211 Champlain av
 †Scown, Wm. J. Bldg. Co., 115 Dearborn
 Seymour, Jas. W., 296 Washington boul
 *Shand, Alexander, 6926 Parnell av
 †Shank & Simons Co., 134 Clark
 †Shapiro, Moses, 702 W Polk
 †Seymour, J. W., 296 Washington boul
 †Sheddon, Jas. Co., 92 Lasalle
 †Sberidan Co., 1875 Lincoln av
 †Sherman, J. J., 375 Dearborn
 †Severin, N. P., 99 E Washington
 †Sbields, R. P. & Son, 121 Lasalle
 †Siebold, Fred'k A., 1639 Brompton av
 †Siegmund, Fred, 572 Wells
 †Simmons, J. L., 2162 W Madison
 Sinclair, Jas. H., 1080 W Harrison
 †Sinclair, Wm., 159 La Salle
 Smith, H. S., 204 Washington
 †Smith, Martin W., 145 La Salle
 *Snyder, Jno. W. (Large), 160 Weshington
 †Soderlund, Olof, 3006 Cottage Grove av
 †Sodren, Alfred, 311 W 109th pl
 †Sollitt, Oliver Co. (Large), 140 Dearborn
 *Sollitt, Ralph & S. Co., Pullman bldg
 †Soukup, Peter, 1168 S St. Louis av
 *Spear, Henry H., 2406 N 42d av
 †Spiering, Edward D., 3747 Rhodes av
 †Spitser, Sol., 292 5th av
 *Sproul, Elliott W., Cham. of Com. bldg
 *Stadler, Chas. H., 1073 S Hamlin av
 †Stark, Richard, 871 W 33d pl
 †Stegman, C., 4624 Cottage Grove av
 *Steinmueller, Louis, 343 Hudson av
 Stephens, Henry J., 2005 N Oakley
 Stephens, John H., 237 W Madison
 *Stephens, Isaac H., 5729 La Salle
 †Stevens, Jas. H., 7127 Greenwood
 †STEWART, JAS. & CO. (Large),
 Fisber bldg
 *Stirton, Tbos., 1195 Wilcox av
 †Stocker, T., 147 E 39th
 †Strandberg, E. P. Co., 159 La Salle
 †Stresenreuter Bros., Cham. of Com. bldg
 †Stuart, Robert, 5660 S Halsted
 †Stuft, Chas., 395 Dearborn av

†Sundene, Andrew, 2375 Lowell av
 Sutter, Jno. H. (Caisson & Bridge Founda-
 tions), 108 Lasalle
 †Swanson, Jacob, 131 La Salle
 †Swiney, Wm. S., 35 E Randolph
 †Swift, Geo. B. & Co. (Large), 188 E Madi-
 son
 †Tank Bros., 4240 Michigan av
 †Taylor, John R., 64 Bryant av
 †Telford, John H., 100 Washington
 †Tbeboul, Frank, 6324 Madison av
 †*Thompson-Starrett Co. (General Building
 Construction), Railway Exchange bldg
 †Thompson, William, 6804 Union av
 *Thomson, G. & Son Co., 145 La Salle
 *Todd, Jas. & Co. (Large), 145 La Salle
 *Toney, Frank C., 6414 Mary
 †Tregay, J. F., 307 Walnut
 †Tullgren, Mauritz S. & Co., 145 La Salle
 †Tulloch, R. G., Monadnock bldg
 †Turnhull, G. W., 84 La Salle W
 †Turner, F. A., 4786 N Clark
 *Turner & Co., 111 Loomis pl
 *Turnes, W. J. Co., 1408 Madison
 †Veberg, Chas. G., 149 W 109th
 †Vermeer, Richard, 5142 Lake av
 *Vermeersch, Emil, 423 W Diversey boul
 Verraelt, Geo., 625 W Jackson houl
 †Vibert, Chas. M., 351 S Oakley av boul
 Wakefield, Ole A., 215 E Washington
 †Walker, Matbias, 4102 Ellis av
 †Wallin, Peter, 235 Honore
 †Walsh & Masterson, 97 Clark
 †Walters, J. P., 192 S Paulina
 †Waltber, Ferdinand, 172 Washington
 †Waltber, Fred E. & Co., 1806 Wellington
 †Wardell, C. C., 52 W Jackson boul
 †Warner Construction Co., 112 Clark
 †Warren, Wm. H. Mfg. Co., Blackbawk &
 †Watson, Wm., 1208 Lexington Smith av
 †Watts, Josbua, 188 Madison
 †Watts, R. W., 4309 Berkeley av
 *Webb, Geo. A., 55 S Morgan
 Weber, B. F. & Co., 4256 N Clark
 Wedekind, Aug., 5807 Henry
 †Wedeles, Solomon, 4920 Ellis av
 †Wehrmann, Max, 274 5th av
 †Wehrwein, Albert C., 6615 Vernon av
 †Webrwein, William G., 1377 W 72d
 †Wells Bros. Co. (Large), Monadnock blk
 *Wells & Campbell, 827 S Lawndale av
 *Weston, Uri W., 1438 Perry
 †Westberg, Carl, 6142 Bishop
 *White, Peter, 678 W 14th
 *Whittaker, Herbert, 3523 Archer av
 †Whittaker, Herhert, 3524 S Hoyne av
 *Williams, Geo., 112 Clark
 Williams, William H., 157 S Sacramento av
 †Winterson, William, 88 N Oakley av
 †Wise, Emory C., 6168 Michigan av
 †Wolfe, W. J., 6707 Yale av
 †Wolff, Paul T., 10258 Avenue H
 †Wolfinger, Clarence I. (Large), 226 La Salle
 *Wood, A. E., 85 S Wood
 *Wood, Geo., 108 E 53d
 †Woodley, Wm. T., 902 60th
 †Woodruff, Edmund F., 583 S Spaulding av
 †Woodard, J. W., 280 E 43d
 *Woodyard, Alfred, 5510 Kimbark
 †Woodyard, Jas., 5624 Lake av
 †World & Corcoran, 169 Jackson boul
 †Wuller, Jno. & Co., 4349 Cottage Grove av
 †Young, Wm., 4537 Cottage Grove av
 †Ytterberg, Chas., 1236 W 61st
 †Zadeck, B. M. Co., 135 Adams
 *Zetterlund, Gustave, 41 Walton pl
 *Zulewsky, Jno., 5845 Drexel av

CLINTON—Ross, R. H.

COLLINSVILLE—Eberhardt, M. & Son
 Juda, Jos. S.
 Sauer, Jno. M.

DANVILLE—*Beard, Jno. (Brick)

 Butterfield, M.
 †Cummings Wm. M.
 †Gillespie, C. H.
 †Krauel Bros. (Large)
 *Krause & Johnson (Brick & Stone)
 *Lewis, J. A. (Brick)
 †Moore, L. M. & Son, 820 N Vermillion
 †Pendergast, Thomas (Brick)
 †Sbeets & Schingel
 Teller, Lee (Brick)
 Watson, John (Brick)
 †Walter, H. B.
 *Weider, William (Brick)
 †Whitmeyer, J. W., N Robinson st
 †Yeager & SonDECATUR—Baker Bros., 709 W Main
 Balbridge, Jno. C., 952 W Decatur
 Battles, O. W., 802 N Edwards
 Bohb, G. M., 862 N Church
 Coburn, Wm. T., 1444 N Main

Cope, Leander (Brick)
 Dixon, R. L., 862 N Union
 *Lunn, E. H. (Brick)
 Mills, B. F., 531 E Marietta
 *Randall, J. H., 613 W Wood
 Reid, Wm. E., 1276 N Church
 Sommer, J. F., 825 Johns av
 Stouffer, Geo. & Chas., 866 N Monroe
 Vest, Josephus, 1096 W Eldorado
 Williamson, Wm. E., 1130 N Main
 Wright & Butts, 1144 N Monroe
DE KALB—Schmerhorn, L. C. & Co. (Large)
 †Spicer, L. D.
DIXON—Fletcher Mfg. Co. (Planing Mill)
 †Grieg & Baum (large)
 †McAlpine, W. J. (large)
 †Morgan, Thos.
 Uhl, E. E.
DOWNERS GROVE—Illinois Lumber & Construction Co.
 Wolfersheim, H. H.
EAST MOLINE—†Bergholtz, A. E.
 †Sarginson, George W.
EAST ST. LOUIS—†Anderson, Christ, 1500 Belmont av
 †Ard, John J., 1205 Kansas av
 †Bancroft, Hy., 512 Illinois av
 †Bosley, Amos, 1019 Gaty av
 †Bosley, E. H., 427 N 13th
 †Bosquit, W. C., 1702 St. Louis av
 †Bowman, Clarence, 1506 N 8th
 †Brown, W. W. Construction Co., 135 N 3d
 †Cahokea Building Co., Missouri av
 †Caldwell, S. H., 2600 State
 †Carl, W. C. & Co., 914 Monroe
 *Clark & Son, 17th & State
 †Coates, Jno. T., 712 Division av
 †Dice, J. M., 2700 McCasland av
 †Donze, Henry, 3019 Bellevue av
 †Eherton, A. M., 560 N 14th
 Gillespie, A. M., Metropolitan bldg
 †Fleming, J. A., 1308 Illinois av
 †Fraser, Duncan, 602 Ohio av
 †Guenther, Chas., 540 N 12th
 †Hamler, E. C. & Son, 611 N 12th
 †Hays, W. T. & Son, 521 Washington pl
 †Johns, W. A., 610 N 16th
 †Locke, P. D., 807 N 8th
 †Marmaduke, R. R., 2204 St. Louis av
 †Marmaduke, S. D., 1004 N 10th
 †Merrick, Archie, 1507 St Clair av
 †Miller, C. J., 315 N 3d
 Morris, A. L., 713 Illinois av
 †Munson, Frank, 311 N 6th
 †Munson, W. H., 20 N Main
 †Niemes, Frank J., 327 N 7th
 †Reed, E. G., 1005 Lake av
 †Reynolds, Wm. W., 3001 Illinois av
 †St. Clair Const. Co., 330 Collinsville av
 Southern Illinois Construction Co., St. Louis
 av & Belt R'y
 Strickler, Wm. F., 1310 N 18th
 Thompson, S. T., 1833 St. Louis av
 †Thrasher, Frank L., 1106 Winstanley av
 †Winterman, John C., 526 N 27th
 †Winterman, Joseph, 613 N 26th
EDWARDSVILLE—†Berleman, Herman, S Main
 Central Illinois Cont. Co.
 Deltz, Frank B.
 Grebel, Chas.
 Hobson, Edw.
 †Keller, John, Clay st
 Pauly, Chas.
 †Waters, Joel & Co.
EFFINGHAM—Bergfeldt, H.
ELGIN—†Boeshe, John, Dundee av
 Crocker, Reimzi, 154 Oak
 Davenport, W. H., 236 Dundee av
 Fluck, John, 447 Division
 Foster, W. F., 519 Enterprise
 Garton, P. S., 224 Chicago
 Giertz, Charles E. & Son, 430 N Crystal av
 Grow, Charles R., 208 Gertrude
 †Hill, Charles J., 389 Fulton
 Jensen, Henry, 18 Warwick pl
 †Juby Bros.
 †Kenyon Bros., 815 Larkin av
 Knott, W. H., 555 Dundee av
 *Lilly & Palm (Brick & Stone)
 Lind, Jacob & Son, 340 N State
 McBride, John, 526 W Chicago
 Magnus, Andrew
 †Marckoff Bros., Room 2, McBride bldg.,
 Douglas av
 Mutzelburg, Charles (Bricklayer)
 O'Neill, Matthew, 327 Washington
 Peterson, John, 125 Oak
 Schindler & Bohm, 532 W Chicago
 Sederstrom, J., rear 52 Grove
 †Seiger, Wm., 70 River
 †Smith & Wikling.
 †Striker, Joseph R., 307 Prospect bldg
 Sullivan, M. J., 153 Porter
 Sydon, M. Henry
 †Wright, John A., 67 N State

EVANSTON—*Bartlett, C. T.
 Boettcher, W. L.
 †Bray, J. L.
 *Carlson, Axel
 †Connor & McCann
 †Curry, T. J.
 *English & Watts
 *Foley, M.
 †Helander & Erickson
 Hoff, Fred. W.
 Lane, Oliver
 *Schroeder & Sundstrom
 †Swanson, Nils & Co.
 Tait, James T.
 *Wigginton, Jas., Oak av
FLORA—Cunningham, J. M.
FREEPORT—Babcock, Alex.
 Frisbie & Haney
 Garman Bros.
 †Hamlyn Bros.
 †Hineline Bros.
 †Kluth, August B.
 *Kruse, Fred. C.
 *Paules, J. O.
 †Randall, F. H.
 *Ritchter, Simon
 †Rockey, Thomas U.
 †Rubendall & Lattig
 †Wieman, John H. & Sons
GALENA—Ginn, James B.
 Toepel, H. J.
GALESBURG—†Chalstran, E. A.
 †Dahlberg, John J., 984 Willard
 †Davidson & Rundquist (Large)
 Hawkinson, C. M., 1051 Seminary
 †Hjerpe, John, 81 Walnut
 †Johnson, Victor, 926 E Grove
 †Miller, Chas. (Large)
 Munson, F. O., 563 Hawkinson av
 Munson, P. O., 558 Maple av
 †Olson, Peter T. (Large)
 †Peterson, N. N., 1032 S Seminary
 †Swanson, P. F., 146 N Whitesboro
 Sweeney, M. E. (Large)
 †Weinberg, Peter, 1467 E Losey
 Young, N. W., 562 Mathews
 †Zetterholm, Emil J., 539 Clark
GALVA—Deem, F. E.
GENESE—Larson, Peter
GRANITE CITY—Draper, C. L.
 Droege, Fred.
GREENVILLE—Martin, H. L.
HARVARD—Breitenfeld, Wm.
 Butts, Elbert
 Hammond, Enos
 Phelps, Benjamin
 Ward, W. H. & Son
HARVEY—†Ranger & Hobson
HAVANA—†Bruning, H. G. (Large)
HIGHLAND PARK—Noerenberg, A. J.
HINSDALE—†Bucholtz, Henry
 †Froscher, Adolph
 †Johnson, Wm. (Large)
JACKSONVILLE—†Bowen, John W., 403 Lincoln av
 Buckingham, N. A., 679 S West
 De Goveia, Jos., 233 W Court
 †Dunavan, Jesse J., 952 S Hardin
 †Farrington, Wm., 661 S Diamond
 †Fernandes & Marks, 244 N Pine
 †Gonsalves, R. L.
 †McCullough, Wm., 310 E College av
 †Marks, Hy., 509 Ashland
 †Montgomery Bros., 503 E College
 †Nunes, Wm., 832 E Independence
 †Ragsdale, Benj. F., 343 E Morgan
 *Robinson, W. D. & Sons (Brick)
 Smith & Fernandes, 356 E Lafayette
 Stewart, Frank, 222 S Church
 †Vanconcellos, J. H., 1060 N Fayette
 †Van Houten, M., 432 S East
 *Wells, Joseph H. (Brick)
 †Wood, Abram, 363 W College
JOLIET—†Bannon, P. R., 605 N Joliet
 Boyd, J. A., 813 3d av
 †Bryant, W. H., 318 W Marion
 †Burlingame, H. R., 606 Jefferson
 Dahlen, J. R., 108 Van Buren
 Dumjahn, N., B'way n Moran
 Fisher, O. A., 113 Gardner
 Holberg, C., 200 Henry av
 Johnson, C. P., Maple n Elmwood
 †Johnson, F. R., 618 Jefferson
 Johnson, Isaac, 1121 Benton
 Korzilius, J. P., N Hickory n Hutchins
 Lindblad, Emil, 200 Ridgewood av
 Love, Jas. W., 1 Jefferson
 McCowan, Wm., 622 Oneida
 †Pease, S. B., 210 Campbell
 Roland, R. M., 613 Water
 †Smith, C. J., 801 Collins
 Smith, Jas. M., 201 John
 Soupart, Arthur, 233 Gardner

Stage, Geo., 304 E Wash'n
 Wagner, Peter, 821 Clay
 †Watson, A. G., 1226 Benton
 Webb, G. F., Florence, 3 E Maple
 †Welsh, R. T., Linden av, 2 D Richards
 Wenberg, Alfred, 1503 Cass av
KANKAKEE—Alberts, M., Jr.
 Belgard, A. A.
 Duekene, Denis
 Green & Keeble
 †Harrop, Seth
 Martensen, John
 Paulissen, J. P.
 †Smith, W. H.
KEWANEE—†Granquist, Nels
 McFarland, C. W.
 Reiff & Klememier
LINCOLN—†Hungerford, W. (Large)
 †Simpson, J. A. (Large)
LITCHFIELD—Bellamy & Christie
 Wilton & Pierce
MARISSA—Elder, A. C.
MARSHALL—Thompson, Jno.
MATTOON—Bruner Bros.
MENDOTA—Bierworth, H.
MOLINE—†Anderson, Jno., 1629 10th
 †Anderson, J. Emil, 1224 13th
 †Brandt, Swan J., 846 16th av
 †Carlson, Axel, 157 4th av
 †Daebelliehn, Wm. P., 518 15th av
 †Dorbeck, Rudolph, 223 18th av
 *Ed, Gust & Son (Large), 406 3d av
 †Gamble, L. Jay (Large), 2221 6th av
 *Hammerquist, A. L., 510 5th av
 *Hannah, Andrew, 1824 24th
 †Heap, C. E.
 †Holmberg, Nelson
 *Hubarty, Henry, 501 16th av
 †Johnson, Carl B., 146 6th av
 †Johnson, C. Victor, 406 4th av
 †Johnson, Elias G., 1132 3d
 †Kemp, Jno. M.
 †Lorenz, Paul H., 724 22½
 *Miller, Franklin, 1321 30th av
 †North, Chas. C. (Large), 2620 5th av
 †Peterson, Peter (Large), 318 18th
 *Pierce & Lundquist, 418 3d
 *Quade, Henry C., 1414 13th
 †Safe, August, 1804 15th av
 †Schaible, J. Austin, 1814 17th
 *Stouffer, Abraham C., 1603 14th
MOUNT VERNON—*Cawger, W. A.
MURPHYSBORO—Howell, W. E.
NORMAL—Mitchell, E. J.
OLNEY—Hardman, T. A.
OTTAWA—Grover, L. F.
 Hohner Bros.
 †Jeffery & McCormick
 Keith, F. J.
 Kerste, A. & Co.
 †McElligott, J. J.
 †McKeel, James M.
 *Sanders Bros. Mfg. Co.
 Sinnott Bros.
 †Stewart, W. K.
 Strohmeyer, Henry
 †Weiss, F. J.
PARIS—Stalnaker, Geo. W.
PAXTON—Denman, D. D.
PEKIN—†Conklin-Reuling Co.
 *Jansen & Zoeller (Brick)
 †Zimmer, E. & Co.
PEORIA—†Abbey, John W., 729 E Virginia
 †Ahrens, J. M., 803 N Glen Oak av
 †Allen, Wm. M. Son & Co. (Large), Woolner
 bldg
 Anderson, C. E., 306 S Frink
 *Barfield, Wellington E., 2801 Knoxville av
 †Barnes, Jos., 203 Barker av
 †Bartels, John, 411 Moss av
 †Bath, Jos. W., 307 E Armstrong av
 *Bell, Thos. R., 1100 Hayes av
 †Benson, Walter F., 1203 4th av
 †Bieber, Chas., 437 Arago
 †Brauer, John W., 1918 S Adams
 †Bristol, J. H., 1114 7th av
 †Brown, C. C., 800 Butler
 †Christianson, C. & Sons, 218 May
 †Coleman, I. & Sons, 802 E Nebraska av
 †Coleman, W. H. Contracting Co. (Large),
 802 Main
 Comegys, C. M., 1824 N Madison av
 *Coons, Samuel P., 711 Bradley av
 †Crandell, Isaac W., 115 Van Buren
 †Davidson, John, 1216 N Monroe
 †De Weerth, Henry, 413 Butler
 †Donaldson, Chas. G., 208 N Madison av
 *Ebaugh, William H. (Brick & Stone), 701
 7th av
 †Fardon Bros., 111 N Glendale av
 †Flinn, John L. (Large), 124 S Washington
 †Folkers, A. S., 3307 S Adams
 *Fragel, Ferd. A., 1308 Howett

†Harbers & Sons, 900 Fisher
 †Harms, Geo. E., 505 Laramie
 †Harms, O. H., 206 Montana
 †Hartwig, Jno. M., 119 Smyth
 *Hasbrouck, Frank B., 323 Ellis
 †Hayward, Lewis, 206 S Douglas
 †Houghton Bros., 110 Fredonia av
 †Houlihan, Daniel J., 919 6th av
 †Iben, Richard H., 201 Butler
 †Iber, Conrad, 404 Butler
 †Jacobs, Emil, 419 Butler
 †Jobst, Jacob J., Masonic Temple
 *Kammerer, Charles, 815 5th av
 †Kinney, Henry J., 204 Indiana av
 †Langton, Michael F., 100 Hillyer pl
 *Linsley, Noah E., 202 Melbourne av
 *McDonald, John J., 207 Louisa
 †Mari, M., Limestone
 †Martin Bros., 519 New York av
 †Melzer, J., 1600 1st av
 *Messersmith, Louis, 1819 Western av
 †Miller, Joseph & Sons (Large), 530 S Wash-
 †Nystrom Bros., 118 Gilbert av ington
 *Olson, Louis, 138 Arago
 *Palmer, Joseph A., 2819 N Madison av
 *Pople, A. L., 1024 Millman
 *Raleigh, Jas. F., 203 Sherman av
 †Reinman, Aug. & Sons, 1040 Krause av
 *Rooksby, Jas. W. E., 118 S Underhill
 *Rounds & Julian (Brick), 326 Ellis
 *Schwerm, J. H. William (Brick & Stone),
 106 McReynolds
 †Seehaas, William F., 926 Main
 †Spickerman, Theodore J., 810 Main
 *Strassberger, Jacob (Brick), 1717 S Adams
 †Steen Bros., 1002 E Nebraska av
 †Stuffings Bros., 1120 Wisconsin av
 †Sutter, Charles J., 701 2d av
 †Thielbar, A. F., 3526 N Monroe
 Trapp, P. F., 538 Sloan
 †Voss, John, 241 Charlotte
 †Wall, Wm. G. & Son, Aiken av nr Sterling
 av
 *Weisenhorn, Leopold, 101 Vine
 *Whalen, Jno. R. Co., 709 1st av
 PERU—Bockling, Chas.
 Haas, Ferdinand
 †Maze, W. H. & Co.
 PETERSBURG—Carver, J. R.
 PINCKNEYVILLE—Ritter, George
 PRINCETON—McManis, Geo. G. & Son
 Owen, Chas. A.
 QUINCY—*Brackensick, Jno., 700 S 13th
 †Brueuing, Hubert A., 1016 Cherry
 †Buerkin & Kaempfen (Large), 500 6th av, S
 †Dieker & Son, 916 Jersey
 †Dunker, Jos. H., 910 N 11th
 †Fick, Adam, 416 S 10th
 *Freund, Frank A., 301 Spring
 *Freund, Jos. H., 505 N 13th
 *Glatfeld, H. O., 1418 Monroe
 †Knuf, Bernard, 1318 Oak
 †Laaker, Wm. H., 927 S 11th
 †Lange, Geo. (Large), 813 S 11th
 †Lux, Ernst, 601 S 12th
 *Menke, F. W. Stone & Lime Co. (Large),
 State & Front
 †Recker, Bernard H., 2313 Elm
 †Roehl, Anthony M. (Large), 1606 Spring
 †Schatsiek-Brecker Building Co. (Large),
 1405 Ohio
 †Schulliau, Baltas, 1119 Jersey
 †Schulte, Wm., 1218 S 9th
 *Steinbach Bros., City Hall
 *Vonderhaar, Geo., 1330 Spring
 †Walterkotte, Albert J., 1110 Chestnut
 ROCKFORD—Ackerson, Nels, 1415 3d av
 Alberts Bros., 517 Indiana av
 *Alexander, John (Large) (Brick & Stone),
 1115 Harlem av
 Almquist & Forsberg, 920 S 5th
 Anderson, P. T., 218 S Court
 Baldwin, Geo. W. (Plasterer), 201 Summit
 Blomberg, Emil, 801 6th av
 Boden, A. T., 412 11th
 Brown, L. W., 840 N Winnebago
 Carlson, Carl, 1728 7th
 Carlson, David, 1209 Revell av
 Carlson, Gust, 111 N. 2d
 Carter, T. L., 1018 S Main
 Clarke, T. H., 118 N Court
 †Clarke, Wm., 825 N Winnebago
 Clubb, Alex. (Stone), 1132 Chestnut
 †Cook, Wm. H. (Large), 401 S Court
 Daniels, E. H., 1402 W State
 Deuel, J. C., 833 Haskell av
 Dobler, Ernest, 838 Rockton av
 Dougherty, Wm. T., Rome av c Rural
 *Ennett, Thos. (Brick & Stone), 130 N.
 Farrell, John, 604 College av Madison
 Faust, H. E., 703 Mulberry
 Grip Bros., 1428 Woodruff av
 Gustafson, Fred S., 1619 S 4th

*Hammer, Alex., 606 Lincoln av
 Hitchcock, J. W., 725 Cedar
 Hollister, E. F., 1016 West
 †Holm, Gust. (Factory & Mill), 1604 4th
 Hovey, W. E., 839 Hovey v
 Jimmerson, J. B., 1120 Thomas
 Johnson, Abner, 121 N Winnebago
 Johnson, C. F., 834 Montague
 Keyt, W. A., 1021 Peach
 Kjellstrom & Olsen (Plasterers), 1010 2d av
 La Forge, C. C., 117 N Avon
 Larson & Nelson (Stone), 320 6th
 Leach, W. J., 513 Hill
 Lint, Chris, 303 Forest av
 Lofgren & Nelson, 1201 4th av
 Lustig & Edstrom, 1013 19th av
 †Lyddon, Benj. A., 2128 W State
 †Lyddon, B. R., 1804 W State
 McKenzie, G. T., 307 Independence av
 McLee, John, 1111 Chestnut
 McLee, J. T., 204 S Avon
 MacKenzie, Roderick, 950 Thomas
 Madigan, W. H., 1136 Beuton
 Maffoli, P. B., 1446 4th av
 *Maffoli, G., 327 Rome av
 Martin, W. J., 720 Mulberry
 Meyers, H. C., 1359 Charles
 †Monteith, Johnston W. (Large), 117 N Court
 Newburg & Erlander
 Nilson, August, 1116 6th av
 Norcross, I. M., 974 N Church
 Nygren, August, 417 11th
 Olson, O. A., 1126 3d av
 Palm, John A. (Brick & Stone), 224 7th
 †Pearce Bros., 119 Hinckley av
 Reichebach, W. D., 903 Kent
 †Reitsch Bros., 1007 W State
 Ridgley, Edw., 120 N Avon
 Roeder, H. J. L., 1218 Blaisdell
 Roberg, W. M., 137 Washington, E S
 Sanders, J. A., 1211 12th
 Schmeling, E. W., 1219 Andrews
 Shaw, Warad, 622 N 3d
 Shouler, Harry E., 504 N Avon
 Shouler, W. E., 504 N Avon
 Smith, Samuel (Plasterer), 835 N Madison
 Sundstrand, L. G., 1721 Charles
 Swanlund, A. J., 1014 5th av
 Swanson, C. J., 910 6th
 Swenson, August, 1210 7th av
 Swenson, Olaf, 1423 9th
 Swensou, Oscar, 614 7th
 †Thornton, Geo. J., 620 Whitman
 Van Alstyne & Co., 522 Elm
 Van Anken, Nathau, 715 Woodlawn av
 Webb, J. T., 727 N Winnebago
 Whipple, W. H. & Son, 802 Kilburn av
 Wilcox, W. H., 1903 School
 Williams, W. W., 1220 N Main
 *Wilson, Geo. (Large) (Brick & Stone), 427
 S Church
 *Winchester, Thos. (Large) (Brick & Stone),
 ft of Jefferson
 Woodward & Newcomer, 960 N Court
 ROCK ISLAND—†Anderson, Aaron, 1209 8th av
 †Anderson & Johnson, 921 11th av
 †Blankenburg, Gustav, 817 29th
 †Bleuer, Frank, 1222 7th av
 †Bleuer, Jno., 737 17th
 †Bleuer, Wm. J., 4513 18th av
 †Christ & Moses, 1612 14th
 *†Collins Bros. (Large), 420 16th
 †Eudter, A. J., 709 42d
 *Heaps, Clarence E. (Large), 820 19th
 †Hohenboken, Deidrich, 537 38th
 †Horst, Henry W. (Large), 1049 17th
 †Hudson & Collins, 17 1st av
 †Juhl, Nicolai (Specialty Churches, 847 22d
 †Kennedy, D. J., South Heights
 *Kenedy, Patrick J., 732 30th
 †Konosky, Jno.
 *Larkin, Chas. J. (Large)
 †Lawson & Wyuu, 1122 10th av
 †Lohse, Henry & Gustav
 *McConochie, Wm. & Sons (Large), 2513 7th
 av
 *Miller, Isaiah, 1008 5th av
 †Nelson, Albert E., 808 42d
 *Nelson, Elmer R., 427 6th
 †Paulsen, Henry F., 1424 14½
 †Peterson, Andrew, 4425 6th av
 †Schroeder, Fred'k W., 1224 12th
 †Sievers, Jasper, 750 15th
 *Stephens, Daniel, 814 24th
 *Stroehle, Jno., 1429 4th av
 †Tappendorf, Henry (Specialty Churches),
 1818 4th av
 †Volk, Jno. & Co. (Large), 311 18th
 †Wehling, Henry C., 1027 11th av
 SPRINGFIELD—†Alkre, A. J., 229 N English
 †Arnold, E. J., 1536 Phillips av
 Atterberry, C. B., 1509 W Governor

†Barrick, Geo. L., 814 N 7th
 †Bettinghouse, H. & Son, 113 N 2d
 †De Vares, D. A., 8th & Lawrence
 Dick & McCutcheon, 615 Eastman av
 †Flesch, R. B., 215½ S 6th
 †Gehlman, Fred'k (Large), 223 S 3d
 Jones, C. H., Rev., 122½ N 5th
 Lewis, A. P., 1331 S Grand av
 *Nelch, Adam, 506 N 4th
 Newell, R. A., 551 N Klein
 †Redeger, Otto, 523 N. Side sq
 *Renne, Thos. P., 205 W N Grand av
 Sanford, E. W. & Son, 728 N 2d
 †Seward, Chas. H. (Large), Myers bldg
 †Sime, John, 710 E Jefferson
 Wade & Dunn, 1225 Franklin
 †Workman, C. T., 527 E Washington
 Yeager, M. & Sou, Farmers National Bank
 †York, John, 220 E Washington bldg
 STREATOR—Argubright, J. W.
 †Davidson, J. M.
 †McGarry, Frank
 †Miller, M. P.
 Pickworth, J. B.
 †Schlachter, Philip, Jr.
 †Schmid, Geo. A. (Large)
 †Swartz, J. W.
 SYCAMORE—Anderson, A. W.
 †Quist, Samuel
 TAYLORVILLE—Burke, A. F.
 WILMETTE—Bauer, Gingel
 Crabb, James
 WOODSTOCK—Belcher, A. C.
 Matheny, J. M.

INDIANA.

ANDERSON—†Austin, Thos. C.
 †Babcock, Jacob D.
 †Burke & Durbin
 †Eshelman, David
 Hawkins, Tilvin P.
 Howard, N. P.
 *Hubbard, Jno. W. (Brick)
 *Kelley, T. P. (Stoue)
 Kennett, Frederick W.
 †Marsh, Wm. R.
 *Savage, Chas. M. (Brick)
 *Thomas, A. (Brick)
 †Thompson, Wm. E.
 †Voris, Geo. W.
 †Wright, B. F.
 ANGOLA—Gilmore, F. & O.
 †Maxwell, W. H.
 AUBURN—Long, J. Perry
 BOONVILLE—White & Elgenman
 BRAZIL—Hadley & Son
 McMillan Construction Co.
 †Smith, Edw. W. (Large)
 Stonehart, A. F.
 Warner, Samuel
 BROOKVILLE—Showalter, Isaac
 COLUMBUS—†Caldwell & Drake
 *Everroad, Wm. & Son
 Gilbert, A. H.
 †McCormick, P. H. Co. (Large)
 CONNERSVILLE—Disborow, Geo.
 Stoops, Thos. H.
 COVINGTON—Roger, A. L.
 Steele, Mortimer F.
 CRAWFORDSVILLE—Britton, Jos.
 Hulett, Wm. L.
 Richner, A. H.
 Waugh, Jas. M.
 Wilhite, F. S. & R. O.
 DELPHI—O'Connor, Jno. C.
 Peirce, Jas. M.
 ELKHART—Kistner & Son
 ELWOOD—De Hority, Frank E. & Co.
 Digel, S. H. (Stone)
 Hicks, W. R.
 Marriott & Woodruff
 EVANSVILLE—†Bippus, Jacob J., 116 E Illinois
 †Bippus, Jacob J., 116 E Illinois
 Boehne, G. Henry, 1425 E Mich
 Boink, Henry, 216 Madison av
 Brashear, Sam'l S., 521 Madison av
 Elpers, Michael, 709 Adams av
 Gleichman, Albert C., Mt Auburn
 *Goodge, Geo. W. & Son (Brick), 1308 Wal-
 Heiser, Philip, 142 Bland av nut
 †Hoffman, B. F., 710 Harriot
 †Kanzler, Christ & Son, 917 E Illinois
 Kirves, Chas. F., 2110 Main
 Koch & Griesbacher (Brick), 1614 3d av
 *Koob, Martin (Brick), 620 Oak
 Kullman, J. V., 201 Main
 Lockyear, Chas., 1221 E Columbia
 Lockyear, Edgar J., 222 E Oregon
 Melvin, Walter T., 125 Monroe av
 Nellis, Jno., 911 S Garvin
 Poelhuus, Jno. B., 1030 E Columbia
 Scarborough-Davies Co., 325 N 3d

Tate & Musgrave
Voelkel, Jacob, 1906 1st av
*Weikel, Jacob P. (Brick), 2221 Main
†Wells, Otto, 525 S Garvin
Wills, Jas. L., 300 9th av

FAIRMOUNT—†Baker, J. S.

†Davidson, Nathan
Goodall, Frank
†Hanley, Wm.
†Lindsay, Jas.
†La Rue, Eugene
Pierce, T. J.

FORT WAYNE—†Bengs, O. F., 2323 John
*Breimeier, E. H. F. (Brick & Stone), 735 W De Wald

Bock, Wm. C., 1045 Swinney av
†Boester, Fred. H., 1210 Fairfield av
Borkenstein, B., 2532 John
†Brown, John O., 1614 W Main
Crow, Jas., 1125 N Kinnaird
Culver, J. M., 1011 Phillips
Doenges, Christian, 1408 Maumee av
Ehle, E. A. & Son (Brick & Stone), 2601 B'way
Empire, T. B., 337 W Lewis
Gallmeier, Wm., 1160 Francis
Greene, Richard B., 132 Douglas av
Hall, J. E., 838 W Creighton av
†Henry, J. M., 529 W Jefferson
†Hilgemann Bros., 1207 E Lewis
†Herman, J. A., 127 W Woodland av
†Hoffman, H. A., 302 W Creighton av
†Hollman, Aug., 1224 E Washington boul
Kaiser, H. J., 1218 E Lewis
Keller, F. E., 3212 B'way
†Kinder, Michael, 436 E Taber
†Kinder, Paul B., 326 E Jeff
†Koch Construction Co., 110 W Jefferson
†Korte & Bruck, 920 Liberty
Kronmiller, Geo., 1723 Koch
Lauer, J., 708 E Lewis
Lehnert, A. M., 1914 B'way
†McMullen, John, 540 Masterson av
*Miller, Frederick & Son, 1114 Summit
Morris, Louis H., 311 Grand
Pohlmeyer, F. C., 311 Baker
Pratt, Benj., 2106 Thomas
†Rleg, Anton, 664 Putnam
†Ruchel, Wm., 623 E Lewis
Shroyer, M. D., 436 Fairmont pl
Shutt, Edwin M., 808 Erie
†Snook, Tom, 1018 Fairfield av
†Suelzer, John, 2336 Hanna
Suter, Edward, 2515 B'way
Tiemann, F. J., 2138 B'way
†Wermuth, C. R., 512 Sittenfield
†Wehrenberg & Busching, 806 Madison
Witte & Berry, 3536 Lafayette
†Wolke, Wm. F., 1210 Jones

FRANKFORT—Barnett, F. P.
Frankfort Brick & Construction Co.

Hinds, Frank
Ross, Jno. A.

GARRETT—Hill, Emil

GAS CITY—Meyer, Anton

GOSHEN—Binkley, Elias, 426 Water

Blackburn, Jos., 1065 S Main
Bottenfelt, Henry S., 703 S 3d
Coyle, Daniel, 505 N Main
*Crowell, Wm. H. (Brick), 305 Middlebury
Cnstls, I. W., 410 N Wilden av
Davis, Eli, 1016 S Main
Essig, J. H., 302 N 7th
Gephart, Valentine, 603 E Madison
Isbell, M. F., 601 N Main
Kapp, Geo. G., 509 S Main
*Larimer, Wesley H. (Stone), 631 Emerson
Lower, John E., 535 S 3d
Martin, C., 701 E Madison
†Michael, Geo. H., 510 S 10th
†Myers, Jno. D., 608 N Main
Wehmeyer, Geo., 221 N 6th
Winters, Eli, 909 S Main
†Witmer, Henry H., 218 S 7th
Yates, Thomas S., 110 E Jefferson

GREENCASTLE—Graham, R. S.

Mahoney Bros.
Torr, J. O. & Co.

GREENSBURG—*Isgrigg, W. H.

Marsh, Claude A.

HAMMOND—*Ahlborn, Wm.

Lund, Erick
†Moser, Peter

Parker, W. W.
†Zimmerman, Richard

HUNTINGBURG—Erlbach, Harold F.

Muenich, Gustav
Siestadt, August

HUNTINGTON—Keefer & Bailey

INDIANAPOLIS—Bedford Stone & Construction Co., Traction Terminal bldg

Brubacher-Eldridge Co., Washington boul & 30th
†Cash, Richard M., 40 E Washn
Clifton, Jno. & Son, 20 N Meridan
Essex Construction Co., 7 Fair blk
Heinzman Bros., 42d & Monon Ry
Indianapolis Construction Co., Brandon blk
Junglaus, Wm. P., 825 Massachusetts av
Keller, Julius Construction Co., 127 Fulton
Kennedy, Benj. C., 1338 W 27th
†Kennedy, C. R., 2032 B'way
Kennedy, Omar R., 2924 Central av
McClure, Geo. W., 816 E 16th
Moore-Mansfield Construction Co., Traction Terminal bldg

Schumacher, Jno. A. Co., 818 E St. Clair
†Scott, David I. & Co., 16 N Delaware
Scott, W. P., 133 W Court
†Smock, Ferd. C. & Co., Lemcke Bldg
Von Spreckelsen, Albert, 1202 E Worth
Wampner, Geo. H. (Brick), 2440 Shelby
Ward, Carey J., 5607 Burgess av (1)
Ward, Zachary T., 5819 Lowell av
Warren, John R., 12th & Tecumseh
Weddle, Andrew D., 3320 N Illinois
Wehking, Chas. F. Co. (Brick), 124 Olive
Westlake Construction Co., Lemcke bldg
Yawger, A. J. & Co., Fair bldg

JEFFERSONVILLE—Bennett, J. W.

Bennett, Tilford
Bowman, J. W.
Bown, George
Eversole, Chas.
†Field & Glaser
Freeman, J. C.
*Hazard, C. D. (Brick)
Hobbs, W. D., 1201 Spring
*Jacobs, G. D. (Brick)
*McDaniel, T. M. (Stone)
*Samuels, W. L. (Brick)
†Shadday, J. H. & Son
Scott, T. A.
Stamper, M. D., 1315 Spring
Tarbell & Reed

KENDALLVILLE—Hart, J. D.

KOKOMO—Cochran, Jacob

Dixon & Hunt

Stewart, H. H. & Son

LAFAYETTE—*Baer, Wm. A. (Brick)

†Bals, Fred. C.
†Boonstra, Jos. D.
†Boyer, S. H. P.
†Brown, George S.,
Burkhardt, Jno.
*Burchby, M. F. (Brick)
*Chew, Joshua (Brick)
†Cors, Adolph
*Ebbeler, Ernest J. (Brick)
*Evans Bros. (Brick & Stone)
*Evans, Joseph F. (Brick)
*Fisher, August (Stone)
†Grove, Richard N.
†Herzog, Adam & Son
†Hetrick, Peter
†Irvin, Jno.
†Kessener, Henry J.
†Levandowski, Peter
Longenecker, Henry E.
†Memmer, Andrew A.
†Moorman, R. R. & Co.
†Parlon, Jas.
†Pfommer, Geo. J.
*Pratt, Freeman C., Jr. (Brick)
*Schneider, John (Brick)
†Smally, Andrew M.
†Snyder, George W.
†Strate, James M.
†Toler, Jno. J.

LA PORTE—Vankirk, Jno. P.

LEBANON—Busby, G. W.

Swiggert, Perry C.

LOGANSPOUT—†Barnes, Harry A. & Son

(Large), 1016 Linden av
†Boyer, Arthur S., 1323 Spear
†Carr, Samuel & Son, 716 North
†Harris, George F., 80 Washington
†Kilborn, Lyman G., 608 Burlington av
Lee, Chas. W., 1804 North
†Lewis, Allen, 210 Burlington av
McKinney, S. S., 810 Melbourne
†Palmer, G. W., 111 Burlington av
*Price, Willard, 107 Park av
†Richardson, Wm. S., 1010 North
†Stalmaker, Winfield, 2025 North
Stouffer, Oliver J., 408½ 4th
†Walling, Jno H., 214 Sycamore
Williams, A. S., 703 Michigan av
*Williamson, Greenberry, 21st nr Jefferson
*Wolf, Leonard N. (Brick & Stone), 16 Columbia
†Woodling, Reason L., 1507 B'way
*Yager, Joseph, 321 Wheatland av

MADISON—Forses, Jno.

White, James

MARION—†Banks, J. W., 2206 S Selby

†Bawman, C. W., 619 Christy

Edwards, Jno. P. (Brick)

†Fleenor, J. V., 3512 S Race

†Gottschall, Franklin

*Hartshorn, Jno. T. (Stone)

Johnson, Carl P. (Brick)

*Johnson, L. L. (Brick)

†Lawrence, A. E.

†Overman, Barclay J.

Overman, Milton (Stone & Brick)

†Patton, Phillip B.

†Polk, Milton

*Reed, M. W. (Brick) (Large)

†Rogers, S. G.

Turner, Glendon B. (Brick)

†Watson, Thos. B.

†Woolman, Isaac N.

Yates, Rich'd J. (Stone & Brick)

Yates, Wm.

MARTINSVILLE—Mandeville, S. J.

Prather & Duncan

MICHIGAN CITY—*Ohming Bros. (Brick & Stone)

Ohming, Wm., Sr.

Schneider, Aug.

MISHAWAKA—Chapman, Geo. H.

Hess, Alfred S.

MUNCIE—†Brown, John A.

Duke, Thomas

*Dunu Bros. Lithogen Stone Co. (Brick & Stone)

†Glass, L. M.

†Gochenour & Hathaway

Hancock, Grant

†Hedrick, Philip

†Illingsworth, Fred'k (Large) (Stone)

Keeler, C. E.

*Kiser & Williams (Brick & Stone)

†Morgan, Thos.

†Morrow & Morrow (Large)

*Snyder, David M.

NEW ALBANY—†Bancs, A. W.

Batey, Squire (Brick)

†Bedan, E. F.

Clemensen, Peter

Craig, Isaac A. & Son (Large)

†Day, Stephen & Sons

Detrick, T. S.

Fielden, J. E.

Gaither, P. T.

†Goodbub, Charles E., 729 E 6th

†Hicks, Jos. R., 320 Bank

Haupt, Wm. (Brick)

†Johnson, I. F.

†Kahl, J. W.

†Kahl, Philip

†Kahler, Ferd. & Son

*Kehoc, Miles (Brick)

†McAfee, Edgar

McNeff, S. C., 309 E Elm

†Miller, C. T.

†Mitchell, M. W.

†Newhouse, Wm.

†Payne, C. C.

†Salkeld, O. F.

†Smith, A. T.

†Utz, B. F.

†Vaser, W. P.

NEW CASTLE—Bell, B. F.

Foust, Samuel

Fry, Chas. D. & Co.

Jones, W. H.

NOBLESVILLE—Durfinger, John W.

NORTH VERNON—Anderson, Theobald & Co.

Brolley, Thos. W.

Deputy Bros. & Wagner

Hicks, E. & Co.

North Vernon Pump & Lumber Co (Large)

PERU—Bruck, Anthony J.

Demuth, Wm.

Forrestal, R. D.

†Goddall, J. B.

Landgrave, Geo. M.

Melcher, W. A.

Schrock, Levi

Theobald, Jacob

RENSELAER—†Rush & Warren (Large)

Donnelly Bros.

Jessup, Lee

Warren, E. G.

RICHMOND—Ball & Palmer, 12 S 5th

Brown, Clarence, 107 N 14th

Buffenbarger, S. W., 124 Main

Burr, F. L., 231 N 16th

Cook, E. G., 315 N 17th

Dietrick & Hasecoeter, 712 S 13th

Dietrick, Hy., 216 S 15th

Geers, Frk., R. F. D. 1

†Hasecoeter, Henry J., 234 S 12th

†Hodgin, Joseph N., 125 N 17th

†Kauffman, Harry C., 64 S 18th

INDIAN TERRITORY.

SOUTH McALESTER—†Boyd, S. F.
†Chitwood, J. M.

IOWA.

ATLANTIC—Aldrich, J. B.
Dennison, Samuel
BOONE—Samuelson, E. H.
BURLINGTON—†Anderson, C. A., 503 Leebrick

†Beck, H. A.
†Bershee & Son
Binder, Geo. W.
†Bloomer, Ferris, 226 Grimes
†Boyer, John, 416 Washington
†Cameron, McManus & Joyce
Dalglish, W. S.
†Dalin, Jno.
Dannies, W. F.
Evans, E. F.
†Fordney, Wm.
†Gilbert, W. F.
†Hammerum, L.
†Harris, Z. W.
†Hassel, Chas.
†Hoppman, F. W. (Stone)
†Kelly, James
†Kriechbaum, Geo.
†Lauth, P. J.
Lundell, A.
Lundell, Frank
†Messner, Chris.
Miller, Louis J.
Pearson, Henry
†Sabins, Jno.
†Young, Geo. J.

CEDAR RAPIDS—Allen, Eugene
†Bartlett & Kling (Large)
†Brown, Fredk. J., 116 6th av
†Burtis, W. J., 1203 5th av
†Connor, A. H., Masonic Temple
Forney, Wm. A.
†Hall, M. M., Jim Block
Jeffries, Wm. S.
Leasure, J. W., 311 S 1st W.
Loomis Bros., Kimball bldg
†Monllaw, James, 656 L. W.
†Null, J. M., 616 2d av
†Richards, L. W., 1115 S 2d W.
Smith, Albert J.
†Stark Bros.
*Thompson, A. W., 859 5th av
†Wallace, L. & Son, 203 2d av
†Wiley, J. W., 421 S 3d

CENTERVILLE—Baine, Vincent
Centerville Brick & Construction Co.
Inman, C. R.

CLARINDA—Clipson, J. C.
Crabell, J. M.
Welsh, W. W. (Large)

CLINTON—Anthony J. (Stone), 648 9th av
Corson & Murphy, 419 2d av
Cheramy, J. L., Sunnyside & 16th av
†Dennis, E. F., 684 10th av
†Haring, Daniel, 506 4th av
Jackson, M. E., 400 Commercial, Lyons
Krelger, Edw., 341 Maple av
Lake, John & Son, 405 S 2d
Logan, John J., 136 6th av
†Lake, John & Sons, 634 5th av
†Miller, E. D., 2d av rd
Morgan, H. G., 229 Elm
Potter, A. R., 215 3d av
*Purcell, Thos. (Stone), 511 7th av
Roman, H. C., 1049 7th av
Schofield, Geo., 312 9th

COUNCIL BLUFFS—†Anderson Bros.

*Barris-Besley Co.
†Beasley, R. S.
*Besley Brick Co.
†Cody, J. F.
†Hamilton, F. S.
†Hansen, H. P.
†Hayden, D. I.
†Jensen Bros.
†Joseph, L. R.
†Liles & Pennell
†Morrow, R. S.
†Myrtue Bros.
†Reynolds, S. W. & Son
†Sorensen, Christian
*Turner, G. W.
*Wickham, E. A. & Co.
†Wind, P. H.
CRESTON—Kenney, E.
†Smith, Frank S. (Large)
†Young, Chas. C. (Large)

DAVENPORT—†Bargman, John & Son, 1315 W 7th
†Carstensen, H. P., 2239 Bowditch
†Coen & Conway, 320 Division
Davenport Stone Co., 223 Perry

†Ehmke, P. K., 720 W 2d
Enis, A. J. (Stone), 729 W Front
Garstang, Valentine & Co. (Brick), 1540 W 2d

†Gillchrist, Geo. O., 1412½ Rockingham
Hansen, H. (Stone), Masonic Temple
Holst, Henry, 322 Dover ct
†Jlpp, Ludwig W., 2115 W 3d
†Johuson, Chas. J., 507 E 6th
Kahler, Henry, 422 Marquette
Koltzan & Meyers, 1014 W 2d
†Mahan, John E., 108 W 3d
†Mahlstedt, R., 1419 Marquette
Nebelgall, E. L., 5th & Brady
†Neuenhaus, Gerhard, Jersey Ridge rd
Oelrich, H. C., 1319 W 2d
†Osborn, C. E., 1215 Harrison
Otten Bros. (Brick)
Peters, John, 522 W 2d
Plekum, E. Co. (Brick)
Plambeck & Frandson (Brick)
†Reading, J. A., 511 Bridge
Rice, Leonard, 1035 Arlington
†Soller, John, 633 E 16th
*Stabe, Henry (Stone), 818 W 2d
†Steckel, A. & Son, 1611 Ripley
Strathman & Otten (Brick)
Struck, A. H., 1302 Leonard
Tri-City Construction Co., Masonic Temple

DES MOINES—*Anderson, Wm. D. (Brick), 1219 Fremont

Badgley, U. S. G., 714 Locust
†Barton, H. H., 1121 21st
†Benson & Marxer, 425 Grand av
Bowman, J. M. & Son, Good blk
Brockman, W. L., 1921 N Jefferson
*Brereton, W. H., 622 E Grand
†Butcher & Storey, 527 E Walnut
Cook Construction Co., Good blk
Cram, Frank, 505 Grand av
†Dagle, Frank, University av & Waveland Park
Fickel, Joel, 1810 9th
Fleming Building Contractors, 606 Walnut
†Fritz, H. J., 2615 Cottage Grove av
Hansen & Hewett, 616 High
Hartle & Hall, 2622 Chester
Herrick, O. P., 109 Locust
Kemp, Fred., 612 Grand
Keys, L. D., 314 8th
King-Lambert Construction Co., 21st
*Kizer, A. H. (Brick), 1250 10th
Lovejoy, J. E., 3309 Cottage Grove av
Magden & Sheeley, Clapp blk
Maine, Jas. & Sons Co., 119 8th
†Mitchell, W. F. & Co., 116 8th
Nelson, M. W., 505 Grand av
Stoneroad, L. A., 920 13th
†Thompson, M. A., 1323 9th
†Tusant, J. E., 580 7th
Weeks Bros., 2315 E 9th
†Wetzel, Chas. & Sons (Large), 713 Mulberry
Youngerman, G. H. (Brick), 1125 19th

DUBUQUE—*Baumgartner, G. J., 539 Rhomberg av

†Baumhover Bros., 533 Stafford av
†Becke & Mettel, 61 Fulton
Brunkow, F. W., 185 Burden av
Burd, C., 150 B'way
†Cameron, D. S., 3130 Pine
*Carter Bros., 2118 Grandview av
†Clark, G. R., 1120 Iowa
Eberl, A., 805 Seminary
Flick, J. R., 358 7th
*Gautenbein, Christ., Jr., 1805 Garfield av
†Gregory Bros., 802 Clay
†Grigg, Cain & Co., 768 White
Heitzmann, W., 325 Davenport
†Howie, D. T., 52 8th
†Jordan, C. H., 140 Julien av
Keller & Luchterhand, 36 W 7th
†Kutsch Bros., 2043 Washington
*McEvoy Co., The, 35 McEvoy pl
*Mayer, August & Son, 1054 Delhi
*Mihm Bros., 2900 Couler av
†Miller, Fred., 834 Rhomberg av
†Mueller & Schilling, 303 Windsor av
†Osborn & Co., 230 9th
†Schilling, T. H. & Co., 1221 Clay
Schilling, E. J., 2136 Washington
†Schmitt, Louis, 820 W 5th
†Stillman, C. I., 407 Alpine
†Taylor, J. R., 540 Julien av
†Warde Bros., 69 S Bluff
†Weaver, G. S., 124 Julien av
†Willy, Ulrich, 216 Kaufmann av
†Witter Bros., 1433 Washington

EMMETSBURG—Dooley, Jno.

†Wells, Patrick R.
FAIRFIELD—Mitchell, J. T. & Son
FORT DODGE—†Ackerman, C. W. Milling &
†Anderson, Jos. Construction Co. (Large)
Cisne, C. J., 1605 2d av, N
†Davis, W. M.

Lawrence, C. B., 212 N 14th
Males, S. R., 302 N 18th
†Sheffer, John F., 42 S 12th
Stephen, Francis, 118 S 16th
ROCHESTER—Hoffman, Fred.
RUSHVILLE—Kelly, Robert
Kenner, W. F.
Walker, Edgar
SEYMOUR—Massman, A.
SHELBYVILLE—Andrews, Chas. & Son
Ballard, A. B.
Bors, Marion
Comstock, Chas.
Meloy, John H.
Powell, J. E.
Walton, Geo. R.
SOUTH BEND—*Baer, Charles H., 1705 Caroline
†Belledin, Bernhard, 417 S Taylor
†Bender, Samuel
*Benkovics, John, Jr., 211 N Walnut
†Christman, H. G. & Co. (Large), 125 S St.
†Class, Richard, 1416 Michigan av Joe
†Defrees, C. H., 315 S Taylor
†Deming, Winnie Lumber Co. (Large)
†Dinan, Matthew M., 618 N Michigan
†Dresden & Stanfield, 407 Laurel
†Eckler Mfg. Co. (Large)
†Freyermuth & Maurer
†Haithcox, Jos., 305 S Michigan
†Hammond, Hilton, 712 E South
†Hans, Otto S., 815 Michigan av
†Hartman's Real Estate Association, 125 E Jefferson
†Herring, Eli & Son, 623 W La Salle av
†Hickey, Louis A. (Large)
†Hoffman, Geo. J. 516 N St. Joseph
†Indiana Lumber & Manufacturing Co., 742 S Michigan
†Irvin, Jno. F., 1404 Kemble av
†Keefer, David H., 723 W Colfax av
*Kemble, C. H., 1011 Miami
†Keogan, Richard (Large)
†Lehman, Frank P., Prairie av
†Neitzel, B. H., 713 W La Salle
†Nelson, James, 602 W Division
†Ogren, Frank O., 516 Allen
*Staley, E. T.
*Syson, Henry E., 1169 Corby
†Tong, Lucius G., Jr. 207 S Scott
*Weaver, Jno. S., 1013 W Washington
†Webster, H. J. & Co. (Large)
Wilcoxon, George, 1016 S Lafayette
*Woolman, Philip H., 1055 Portage av
SPENCER—Babbs, Geo. R.
SULLIVAN—*Nichols, J. F. (Brick)
TERRE HAUTE—Abbott, Chas. W., 459 N 5th
Brewer, Salmon, 1013 Maple av
Dysart, Hiram E., 619 2d av
Freed, Dempsey, 227 Kent
†Haring, Anton, 1330 S 5th
†Higgins, Crayton P., 910 7th av
Jones, C. L. & Son, 10th & Hulman
Knapp, Cyrus, 341 N 13th
†Kintz, Norbert C. (Large), 10th c 3d av
†Kintz, P. C. & Sons (Large)
Knisely, Benj., 518 Chestnut
Luckett, Wm. L., 1164 Lafayette av
McCracken, Geo. W., 1311 Grand av
†Martin, T. J. Co., 533 N 15th
†Maurer, Fred. J. (Large), 335 S 16th
Metzger, Chas.
*Moudy, Harry, 469 N 1st
Nehf & Waldbeiser, 313 N 15th
Nelson, Benj. F., 1405 Barbour av
†Ohm, August, 1456 Locust
†Phillips & Co., 513½ Ohio
Pierson, S. E., 1212 S 17th
Ravell, A. W., 288½ S 5th
Shultz & Conover
South & Ohm
†Taylor, Brice P., 513 N 7th
†Temple, C. E., 1937 Poplar
*Wallace, Charles (Brick), 1469 S 12th
White, Wm. J., 817 N Center
TIPTON—Bowlin, M. L.
Dowd, H. J.
Henry, E.
Porter & Bowlin
Richards & Williams
Thomas Bros.
UNION CITY—Hoke, J. S.
Steel, J. M.
VINCENNES—Brown, R. A. & Co.
Katzorkey, Frank (Large)
WABASH—*Bridges, Thos. & Sons (Brick)
†Hipskind, Jno. & Son
WARSAW—Frush, J. P. & Son
McCarter, G. W.
WASHINGTON—Brown, R. A. & Co.
McKernan, Hugh
WINCHESTER—Goodrich Bros.
Moonan & Goodrich
Williams, Otis

†Elfstrom Bros.
†Feld, T. J.
†Haworth, J. R.
†Jensen Bros.
*Kehm, Wm.
*McNulty, J. M.
†Peters, R. D.
*Smith, R. O.
†Stedman, E. Z.
FORT MADISON—Brandenberg & Currie
Hansman, F. J. & Co.
GLENWOOD—Meyers, F. K.
Tipton, John H.
GRINNELL—Coutts, R. G.
HAMPTON—*Bailey, H. L.
†Crawford, B. L.
*Hunt, Samuel
Johnson, J. W.
†Kibbs, A. J. (General)
Roberts, Stewart
†Sargent, G. E. (General)
†Simonson, C.
†Wheeler, F. F.
HARLAN—Larson Bros.
IOWA CITY—Metzinger, J. W.
Rowson, Jas. & Son
KEOKUK—Cameron, McManus & Joyce
Delahoyde, W. H.
Goines, E. & Sons
Griffey, Frank L.
Langley, J. E.
Young, J. W.
LE MAKS—†Eyers, Zach.
Van de Meer, E. A.
MANCHESTER—Bruce, A. J.
Welterlen, H. W.
MAQUOKETA—Hancock, William
MARION—Rowe, F. A.
MARSHALLTOWN—†Adams, Walter W.
†Atkinson, J. F.
Barstow, Geo. T. (Bricklayer & Tile)
†Bauzhof, C.
†Irvin Bros, 410 N 3d
†Kurtz Bros
*Lindsay, Robert C., 8½ N 3d (Brick)
*Matter & Sons
†Neubloom, Jno., 502 Woodbury
†Nilssen, Fred. L., 214 N 3d av
Peterson, John (Stone)
*Relmer, Chrs. F. & Co.
†Rhem, H. R., 711 N Church
†Squires, H. W., 110 N 1st av
Stewart, T. J., 207 W Lincoln
*Stine & Peterson
†Weatherly, J. G., 206 N 1st av
†Weatherly, T. C. (Bridge), 607 W Nevada
MASON CITY—Younglove Construction Co.
MISSOURI VALLEY—Hansen & Jorgen
MOUNT PLEASANT—Brown, Jas.
Purdy, Jas. S.
Whitney & Bergdahl
MUSCATINE—†Collins, U. G.
Dale, P. F.
†De Graff, Charles
Duffield, Francis A.
†Harker, Wm.
†Howe, J. E. & Son
Keath, A. A.
Kille, A. H.
†Kincaid, Wm.
†Nyenhius Bros.
Ponbeck, Jacob M., 1100 Oak
†Reindl, J. J.
†Schnier, F. W.
†Smith, P. T.
†Wickey, August
Wintermier, F. Henry
†Zeidler, Wm. C.
OSKALOOSA—Carlton, Geo. H. & Son
Phinney, Harry H.
Ritchie, W. E.
Sinclair, S. B.
OTTUMWA—Blunk, J. C.
†Capell, Geo. F.
*Castle, N. A.
*Chilton, Chas.
†Crlsman, L. T. Co.
Emery, D. W.
Gortner, Francis M.
*Keefe, T. F.
Lanning, W. R.
Miller, J. S.
Reed, J. J.
*Scott, J. W.
†Thompson, J. C.
†Whitney, C. H.
*Young, Francis H. W.
RED OAK—Ahlstrand, S. A.
Harding, W. A.
SHENANDOAH—Bowell, I. J.
Dunnegan, J. J.
Lake & Cottrell
Reed, M. A.

SIoux CITY—Anderson & Grimwood, 200 9th
Anderson & Switzer, 506 Water
†Babur, F. X. & Sons, 408 Mass bldg
Beck, F. F., 1311 Jackson
Boyer, J. A., 1505 W 7th
†Clark, A. J., 615 5th
†Gilliland, W. J., 409 Cook
†Goodrich, O. A., 3d & Park
Gruner & Klingehill, 417 Nebraska
†Halscth, Aaron, 905 7th
*Hanson Bros., 420 Jackson
Harding, J. H., 311 Nebr
†Hopkinson, J. W., 614 Panoah
†Holtze, Saml., 1129 Oak
*Houx, Frank T., 306 Douglas
Iverson, Paul, 1121 13th
†Keefe, J. J., 306 Pierce
Kling, W. S., 1501 W 7th
†Millard, E. P., 22 6th
†Mitzell Bros., 401 Pearl
†Moe, Chr., 311 6th
STORM LAKE—Barnes, W. A.
Russell, J. M.
VILLISCA—Kelley, Samuel
Swanson, F. W.
WASHINGTON—Williams, John
WATERLOO—Bachle, A. (Brick & Stone)
†Barkman, S. M.
Bentroth, Henry
Brown, W. H. (Brick & Stone)
Campbell, C. W.
Crane, G. H. (Brick & Stone)
Dunham, A. G. (Plasterer)
Dunham, Geo. F. (Large)
Frich, F. M.
†Graceley, C. A.
Haffa, A. W.
Lighty, H. W. (Plasterer)
McCoy, W. H. (Plasterer)
†Paul, J. M.
Peterson, E. F. (Plasterer)
Roebuck, Ernest S. (Brick & Stone)
Ruvane, M. W.
†Scales, G. F. (Large)
Seargent, H. A. (Brick & Stone)
Shannon, P. H. (Brick & Stone)
†Slms, Jno.
Stewart, J. H.
†Story, C. A.
Van Arnam, J. (Plasterer)
Vetter, J. C. (Brick & Stone)
Weaver, G. E. (Stone)
WAVERLY—Woodring, W. H.
WEBSTER CITY—†Atkinson, C. E.
†Zitterell, W. J. (Large)
WINTERSET—Mardis, T. E.

KANSAS.

ATCHISON—Baldwin, W. J., 1101 Commercial
Houston, J. S., 1310 Main
Kaaz & Braun, 1021 Laramie
Moore, Alfred H., 509 Main
Nesbit, Jas., 709 Kearney
Schaefer, G. H. T. & Co., 8th & Kansas av
Spatz, Jacob, 1145 Parallel
Zimmerman, Adam B., 5th & Park
EMPORIA—†Lewis, L. W. (Stone)
FORT SCOTT—Fort Scott Stone & Construction
HUTCHINSON—†Beatty & Workman Co.
†Buser, A. M.
†Dowell, John
†Gregory, T. B.
*Griffin & Stevens
†Hutchinson Lumber & Planing Mill Co.
Noyes, C. J.
Rawson, Mathew
Rexcord, B. S.
Richardson, A. W.
Snyder Co.
Stephenson, J. C.
Tucker, R. H.
*Whetzell & Sons
Wilson, S. J.
INDEPENDENCE—Ellis, H. D.
Todd, A. E.
IOLA—Gillfillan, R. & Son
Hanley & Ritchie
Klein Bros.
Livingston & Co.
JUNCTION CITY—Cook, W. W. & Son
†Ziegler & Dalton
KANSAS CITY—†Ahlstedt, Gustav, 502 Dug-garo
†Allen, C. H., 17 N 6th
Allred, J. H., 900 Ohio
†Babbitt, J. H., 1024 Barnett
†Baber, T. H., 1956 N 17th
†Brown, H. E., 1937 N 13th
†Bryant, E. L., 1316 Waverly
†Buckley, John, 724 S 9th
†Burtner, C. J., 1230 Ohio
†Butler, W. F., 1907 Hallock
†Cates, C. P., 222 N 15th
†Chamberlain, A. W., 1212 Quindaro boul
†Clark, F. S., 361 S Boeke
Croy, J. H., 1210 Orville
Deavey, M. J., 731 Armstrong
Diamond, Joel, 36 N 2d
Drennon, W. M., 224 N 16th
†Elliott, R. B., 238 N 16th
†Evans, T. S., 647 Orville
†Ferguson, L. G., 570 Park
Folsom, L. W., 235 N Valley
†Funk, J. H., 936 Minn av
†Groff, I. L., 1102 Sandusky
†Harford, Jos., 838 Pyle
†Hedgecock, J. S., 240 N Valley
Hendricks, G. S., 1368 Quindaro boul
Hibbs, A. J., 722 Garfield
†Hoffman, A. J., 1136 Splitlog
†Hoffman, A. P., 253 Harrison, B.
†Kreisher, P. H., 739 Armstrong
†Lemmon, H. A., 1218 Pacific
Long, David E., 609 Quindaro boul
†McCoy, L. A., 2200 N 13th
McKinley, R. D., 2031 N 14th
†McShee, A. L., 1610 Wood
Melvin, T. J., 1302 State
†Montgomery, R. R., 1314 Ann
Moore, F. C., 310 Ann
†Moore, S. R., 331 Waverly
†Morrison, S. A., 1815 Quindaro boul
†Newdeck, A. W., 824 State
†Palm, Jos., 619 Virginia
*Pearson, C. H., 2802 N 4th
†Peck, J. E., 1346 Greeley
†Porter, C. W., 236 N 16th
†Prather, A. G., 1332 Waverly
†Reid, W. T., 1329 Waverly
†Rowe, A. E. & Co., 747 Minn av
†Russell, T. C., 2111 N 5th
†Ryan, E. B., 833 Balt
†Schmidt, H. C., 830 S 9th
†Seebaum, F. C., 722 Greeley
†Sharp, A. E., 440 N 13th
†Simpson, E. E., 1855 N 8th
†Skaggs, Albert, 742 Central
†Smith, D. F., 837 Splitlog
†Smith, Eugene H., 618 Freeman
†Smith & Babbitt, 509 Everett
†Smith, J. B., 2028 Hallock
†Starks, H. N., 1110 Orville
†Stewart, L. G., 2014 Vine
*Thompson, E. L., 2404 Hallock
Tressler, S. B., 736 Greeley
†Van Epps, C. B., 718 Tauromee
Wallin, C. E., 1211 Tauromee
Washburn, L. A., 1727 Wood
†Wiggin, E. M., 922 State
*Wiggin, R. D., 1210 N 9th
†Williams, W. J., 931 Pyle
†Wills Bros., 1411 N 5th
Wills, J. H., 548 Freeman
†Woods, E. B., 1135 Sandusky
*Yockey, F. M., 42 Lombard
LAWRENCE—†Schneider, E. H. F., 9 W Berk-ley
Stubbs, J. E. Construction Co.
Stubbs, W. E. Construction Co.
LEAVENWORTH—†Boyd, C. H.
†Coldren, H. W., 770 Cherokee
Desmoud, Michael
†Fuller, J. M.
†Grote, H. G.
Hoge, James R.
Inkman, J. Henry
Jackson, W. A.
Jones, Thomas
†Jones, T. F.
†Kelley, V. A.
†McLoughlin, Henry
*McGonigle, James A.
†Mehl, L. C.
†Willcott, John
Wright, J. W.
OLATHE—Bushong, H. W.
Cosgrove & Abbott
Wilkerson, J. E.
PARSONS—*Hardman & Gaffey (Brick & Stone)
*McBride, Chas. S. (Brick) (Large)
McLellan, J.
Meadows Bros.
†Widmer, Wm. (Large)
PITTSBURG—Swan, W. A.
ROSEDALE—Huntington & Davis
SALINA—†Wilmarth & Zerby
TOPEKA—Barber & Keesec, 212 E 10th av
Betts, J. B., 1029 N Quincy
Blanch & Keating, 421 E 4th
Buzlek & Wilson, 120 8th av
Cook, P. E., 117 W 5th
Council, M., 324 Van Buren
Douglas, W. H., 1108 Spruce
*Fellows, Chas. A., 716 Lincoln
Fletcher, J. G., 119 E 7th
Hartzell, J. D., 1715 Buchanan
Jansen, J. B., 527 Topeka av
Lundgren & Carlson, 213 W 4th

McCormick, M. C., 114 E 8th av
McGiffin, J. A., 206 W 7th
Mull, N. W., 124 W 8th av
Murphey, E. D., 1331 Western av
Smith, C. L., 117 W 5th
WICHITA—Bachtel, H. J., 515 Hewett, W. P.
Borden, F. C., 303 S Lawrence av
Brandt & Reers, 210 W 1st
Bush & Hill, 911 W Douglas av
Fulton, W. H., 1024 St. Francis av
Jones, Josiah, 228 W Dewey
McMillen, J. T., 112 E 2d
†Minnick, Andrew, 113 S Topeka av
Rick, Ezra, 122 E Douglas av
Roy & Cochran, Sedgwick blk
Shearer, J. W. & Sons, 1007 Cleveland av
†Waddell, A. J., 140 N Market
Williams, Horace, 114 E 2d
WINFIELD—Holmes & Burbank

KENTUCKY.

ASHLAND—Ashland Cement Construction Co.
Blackstone Co.
Hunt, Geo. W.
Long, Wm.
O'Kelly Construction Co.
†Standard Planing Mill & Bldg. Co. (Large)
Wilson, A. A.
BELLEVUE—†Geeslin, Jos.
†Hanna, Oscar
BOWLING GREEN—†Smith, Chas. H.
CARROLLTON—Kipping Bros.
CATLETTSBURG—Kilgore, J. A. & Co.
COVINGTON—Baird, Chas. A., 2024 Edward
Behle, Chas. J. & Co. (Stone), 1489
Kavanaugh

*Carl Brothers & Co. (Stone)
Clyde & Stevens (Brick), 1524 Rickey
†Craig, A. J., 24 W 9th
Craig, John J., 24 W 9th
†Culbertson, Robert E., 911 Scott
†Gresham, E. L., 413 Madison av
Heineman, Timothy, 809 Russell av
Jones, Richard, Warreu nr Elizabeth
Meimann, Henry & Son, 176 E 13th
Meyer, J. A. C. & Co. (Stone), 216 Short
Ross, J. D., 449 Herman
Rouse & Cleveland, 66 E 19th
Stevens, J. R. Co., Farmers & Traders Bank
bldg

Ward & Bussert (Brick), 13 Grand av., C C
CYNTHIANA—Asbury, F. S.
Fowler, F. M.
Megibbeu, Perry R.
Rees, Addison
Stevens, J. R.
DAYTON—Kreidler, Chris.
Walter, Anton, Jr.

FRANKFORT—Mason, Hanger & Coleman Co.
GLASGOW—Hatcher, W. R.
HENDERSON—Bailey & Koerner
†Brashear, Walter
Kyle, P. C. (Brick), 620 1st

HOPKINSVILLE—*Dalton Bros. (also Brick
Mfrs.)
†Forbes & Bro. (Large)
Mathews & Wilkins

LEXINGTON—†Bush, F. & Son., 547 W Short
†Clark & Howard, 206 E Main
†Combs Lumber Co. (Large)
†Curran, Wm. & Son, 162 N Limestone
†Hendricks Bros. & Co. (also Lumber)
†Home Construction Co., 428 W Vine
†Lexington Lumber & Mfg. Co.
Shannon, T. J. (Brick), 154 Constitution
†Tudor, J. H., 147 E Main

LOUISVILLE—Bickel, Henry, 1052 Garden
Bailey & Koerner, 31st & Market
Caldwell & Drake, 530 W Walnut
Clark, R. L. & Co., 648 W Jefferson
Fellers, M. L., 2600 Portland
*Gregory, Dudley (Brick), Tyler bldg
†Hanks, W. T., Tyler bldg
†Harris, W. B. (Brick), 13th & Duncan
Hoertz, Adam, 525 Camp
Houston, T. R. (Brick), 1525 W Chestnut
†Keller, Louis & Son, 2124 1st
†Kimbel, Fred C., 2626 Woodland
*Lewman, M. T. & Co. (Large), Tyler bldg
*Miller, Fred (Stone), 2812 Shelby
†Miller, J. H., 308 E Oak
Miller, W. S., 9th bet Jefferson & Green
*Nist, Fred (Brick), 3115 Bank
†O'Connell, Wm., 1033 6th
Oliver Co., 1st & Washington
Peirce, John Co., 4th & York
†Probst, Herman, Equitable bldg
†Regan, J. M., 1815 Brook
Rommel Bros., 915 E B'way
*Sale, C. R. (Brick), 2438 Hemlock
*Scoggan, W. D. (Brick), 1527 State
†Seadler, Geo., Tyler bldg
†Shrader Bros., 1005 W Jeff
Smith, F. W. (Stone), 838 Franklin

Stewart Bros., 420 W Green
Stout, J. L. (Brick), 1931 Baxter
Strattan, W. C., 818 7th
*Tucker, E. F. (Stone), 2011 Baxter av
Waters, William, 137 W Green
Woodruff & Hoke, 317 5th
†Young & Humphrey, 531 3d
LUDLOW—Flenning, R. H.
Southern Construction Co.
MAYSVILLE—†Frederick, W. H.
†Lane, I. M.
NEWPORT—Allen, H. F., 521 Monmouth
Barrett, W. L., 107 W 6th
Beiting, Joseph & Sou, 315 Keturan
Bertke, Herman J. (Stone), 522 W 10th
Bowman, Ben., 637 E 3d
Brimston, Herbert (Brick), 1111 Columbia
Fisher, Ben., 1133 Park av
Fitzsimmons, Jas. H. (Stone), Brighton &
Fitzsimmons

Groenick, Chas., 435 W 10th
Harris, Robert, 718 Monmouth
Hughes, Philip C. (Stone), 524 Central av
Johns, P. F., 203 E 7th
†Lampe, F. W. & Son, 1120 German
†Lampe, Wm., 409 W 11th
†Lang, Jno., Evergreen av, Southgate
Langendoerfer, Peter, 1144 Park av
Maynard, Jos. (Brick), 414 W 4th
Meyer, Herman A., 606 German
Morris, J. R., 32 Bieh av, Clifton Heights
Perry, Thos. J., c 10th & Monmouth
†Prickett, David W., 1033 Park av
†Pyne, Ralph H., 1221 Vine
Raabe, Lawrence, 408 Columbia
Schneider, John, 818 Dayton
Schriver, Chas., Millers' la
Schriver, Walter, 13th & Central av
†Sensel, Fred, 309 W 5th
Sexton, Patrick (Stone), 218 W 9th
Siedenbergh, Jno. H. (Stone), 79 McCracken av
Stauder, Wm. J. (Brick), York & Southgate
†Stricker, Albert, 805 Dayton
Suchter, Anton, 1006 German
†Taylor, Edward R., 215 W 3d
Theele, Hy., 835 Isabella
Thompson, E. J. (Brick), 713 Columbia
Thompson, O. G., 522 Overton
†Venables, Robert, 714 Overton
†Walsh, H. J., 722 Orchard
Ware, W. H., 543 E 4th
Wasser, John Co., 1115 Monmouth
OWENSBORO—Eigenman Cons. Co.
†Owensboro Planing Mill Co.
Rounds, Erdix & Co.
†Seventh St. Planing Mill Co.
Williams, J. J.

PADUCAH—*Augustus, Geo. E. (Brick)
†Davis, B. T., 1102 Monroe
†Ingram, George O.
†Karnes, W. M.
Katterpohn, F. W. Construction Co.
*Katterjohn, G. W. (Brick)
†Lockwood, J. W.
†Smedley, Chas. M.
*Weikel, George F.

RUSSELLVILLE—Moseley & Ryan
Smith & Covington
SHELBYVILLE—Craig & Bullock
WINCHESTER—Jones, A. B.

LOUISIANA.

ALEXANDRIA—†Whitfield, J. D.
Wilson, J. C.
BATON ROUGE—*Allen, H. J.
Bangs, W. F.
Bogan, J. D.
Brown, J. D.
†Legg, Geo.
†Miller, Wm. R.
†Powers, W. S.
†Pruyn, R. L.
*Stewart, C. D. (Brick)
CROWLEY—†Harmell, Chas. L.
DONALDSONVILLE—Hazzsphilp, Walter C.
MONROE—†Wright, J. W.
NEW IBERIA—Reynolds, C. E.
NEW ORLEANS—Anderholt & Son, 731
Pleasant
Andrus, Wm. E., 5517 Chestnut
Bensel, Leonard, 912 Aline
†Blakeman, Edwin, 840 Union
Blanchin, Geo., 316 Baronne
Bonne, Laurent, 925 N Dupre
†Burns, Henry P., 2039 Cleveland
†Carey, Walter T. & Bro. (Large), 630 Camp
Castaing, Maxime, 2415 Laharpe
†Chisholm, John B., 223 S White
Climo, Arthur, 709 Carondelet
Costley, Martin L., 1531 8th
†Crescent Building Co. (Ltd.), 307 Camp
Cuccia & Guichard, 1536 Bourbon

Curry, Travis J., 617 Webster
Dameron & White, Hennen bldg
Danner Bros., 5934 Laurel
Dickinson, J. Q., 1629 Polymnia
Dowdle & Windell, 320 Magazine
Evans, Hugh, 3427 Camp
†Faist, August, 920 Toledano
†Frollich, Lawrence, 840 Union
†Fulham, Wm. C., 4319 Barronne
Gardner, J. H. Construction Co., 505 Tchou-
pionlas

†Garvey & Theobald, 203 Carondelet
Geier, Geo., 1024 Joliet
*†Glover, Geo. J. (Office, Railway & Manu-
facturing Buildings), Hibernia Bank &
Trust bldg

Grasser Contracting Co., Hennen bldg
†Grisoli, Isidor, 1134 N Dupre
†Hacheney, Wm., 1119 Josephine
†Hinrichs, Henry F., 2426 Jackson av
†Hoefeld, H. D., 2017 Carondelet walk
†Huet, H. L., 2720 Iberville
†Humphreys, Jas., 915 Dante
†Humphreys, Jas. B., 915 Dante
Keegan, J. J., 3607 Magazine
Kirn, Jacob T., 3310 Cleveland
Lagasse, Paul, 826 9th
†Lavignac, August J., 932 Dumsine
†Le Blanc, Alice P., 1020 N. Rocheblane
†Leibe, Arthur, 840 Union
Le Monnier, Y. R., Jr., 366 Baronne
Lennox, Jos. W., 301 Elmira av
Lotz, Jno. C., 2403 Laharpe
Luthjens, J. W., 1117 Clonet
†McNally & Mullaney (Large), 316 Baronne
Menzies & Co., 830 Canal
†Metropolitan Bldg Co., 217 Baronne
†Mock, Chas., 1500 Dublin
Montagnet, O., 1126 N Rampart
†Muir & Fromherz (Large), 211 Camp
†Newald, H. L., 5517 Laurel
Noullet, F. J., 121 Carondelet
Petty, J. A., 527 Canal
Reimann, G. E., 2922 Tulane av
†Riley, Jos., 2836 Howard
†Rodick, Richard A., 2757 St. Ann
†Rofls, Wm. G., 840 Union
†Schneider, Bernard J., 2225 S Franklin
Sicard, Chas. A., Hicuneu bldg
Staub, Jno. C., 5214 Camp
*†STEWART, JAS. & CO. (Large),
Hibernia Bank bldg

Veglia, Jno. B., 724 St. Joseph
Walther, Otto, 313 St. Charles
†Ward, Michael, 3705 Carondelet
†Ward, Robert B., 840 Union
†Wunderberg, Conrad, 3104 Annunciation
SHREVEPORT—†Chatwin Bros.
†Christian, C. M.
†Denham, F.
†Fuller Bros.
†Lowe, L. M.
†Skoog, A.
†Smith, W. J.
†Werner, W. H.
†Winbush, C. B.
†Wise, J. F.

MAINE.

AUBURN—Adams, F. W.
†Ballard, S. K.
†Dinsmore & Greenleaf, 17 Mechanics row
*Estes, A. L., 200 Lake
Estes, N. C., 120 2d
Greenleaf, E. M., 28 Miller
†Greenleaf, J. A.
†Warren, A. F., 35 Minot av
*Whitehouse Bros.
†Young & Shaw
AUGUSTA—Best & Packard
*Clark, Henry T., 79 Bridge
†Hoxie, Chas. E., 371 Water
†Humphrey, H. & Son
Lee, Frank B. & Co.
†Noyes, Ruel J.
Turner, Jno. H.
Wentworth & Hanks
BANGOR—*Bachelder, Geo. M., French
†Barker, E. F.
†Carter, John T.
*Flanders & Pierce Co.
†Foster & York
†Frost, Wm. W.
†Gatchell, E. L.
†Grady Construction Co.
Graham, G. H.
Grindle, W. J.
†Lancaster, M. H.
†McEwen, John
†McVarnish, A. H.
†Morse, Charles B.
†Nelson, Geo. G.

*Perry, Walter F.
 *Sawyer, Wm. N.
 †Smith, Merritt W.
 †Tibbetts, Melvan
BAR HARBOR—Billings, Geo. W.
 Clark, J. E.
 Hodgkins, Asa & Son
 Hodgkins, Chester A.
 Hodgkins, C. W.
 †Hopkins, Jno. H.
 Hopkins, Seth H.
 Jordon & Whitaker
 Lawrence, A. E.
 Moon, R. H.
 Rodick, W. E.
 Stratton, Milton W.
 Westcott, Geo. L.
BATH—†Bishop, Daniel A.
 †Farnham, Charles L. (Large), 21 Elm
 †Frederic, Herbert F.
 Hartwell, Wm. F.
 Lord, S. C.
 Minott, A. M.
 Reed, Geo. F.
 †Trask, A. G. & Son
BELFAST—Aborn, John, Cedar st
 Howard, Sanford, High st
 Mason, Howard F.
BERWICK—Bodwell, Geo. A.
 Bradeen, E. K.
 Davis, Oscar F.
 Twombly & Edgerly
BIDDEFORD—†Drown, Octavius
 Herring, Geo. H.
 Tibbetts, W. H.
BREWER—†Carter, John T.
 Kenney, A. A.
BRUNSWICK—Barnes, Louis A.
 Brown, S. T.
 Cobb, Hiram B.
 Coombs, W. H.
 Glven, T. W.
 Parker, Gustavus W.
 Phillbrook, Jos.
BUCKSPORT—Smith, E. E.
 Smith, Jas. E. & Son
 Smith, Urias B.
CALAIS—Rockwood, J. C.
 Stickney, Charles L.
CAMDEN—†Brown, C. P.
 Giles, W. S. (Brick & Stone)
 Ritterbush, Stephen
DEERING—Marston, G. L., N Deering
 Montgomery, C., Deering Centre
DEER ISLE—Saunders, J. E.
DEXTER—Bean, Chas. F.
 Bennett, Jos. B.
EASTPORT—Buckman, Geo. A.
ELLSWORTH—Curtis, A. W.
 Foster, Austin M.
 Moore, Henry L.
 Moore, N. J.
FAIRFIELD—Burns, H. T.
 Parkin, J. L. & Son
 Smith, A. D. & Sons
 Williamson, N. H.
FORT FAIRFIELD—Beckwith, S. D.
FREEPORT—Porter, E.
GARDINER—Jones Bros.
 Paul, L. G.
GORHAM—Lane, Wm. H.
 Lovett, U G.
HALLOWELL—Bradstreet, L. E.
HOULTON—Carpenter, Leonard
 †Chadwick, J. G.
JONESPORT—Rogers, A. V.
KENNEBUNKPORT—Meserve, Frank
 Nason, Chas. W.
 Wildes, B. D.
KITTERY—Donnell, F. E.
LEWISTON—†Adams, Lord & White
 *Beece & Clifford Construction Co., 244 Main
 *Belodeau, Joseph
 *Cain, Frank
 *Carrivaeau, Joseph
 †Chapman, Daniel C.
 *Chavalier, O. & Co.
 †Day, G. J.
 Desjardins, E. R. & Sons
 *Dionne, Emile
 Dixon, Benson M., 35 Sabbatus
 Field, George H., Greene rd
 †Gammon, W. H.
 *Garvals, Joseph & Co.
 †Haskell, John W.
 *Lane, Geo. W. & Co. (Large)
 *Leader, Wm.
 *Lemieux & Chevalier
 †Lewis, L. A.
 *Murphy, Michael A.
 *Roy, Elle (Stone)

*Saucier, Samuel & Son
 *Thornton, Fred., 34 College
LUBEC—Lowell, C. H.
MACHIAS—Gilson, A. R.
 Leighton & Mahler
MADISON—Johnson & Johnson
 Maxim, E. A.
 Moore, Ernest L.
NORWAY—Adams, Charles H.
 Hathaway, C. L.
 Horne, H. L.
OLD TOWN—Davis, O. C.
PITTSFIELD—Richie, George
 Watts, Chas.
PORTLAND—†Albee, Fred I., 290 Fore
 *Benner, J. W. Co., 95 Clark
 †Blackstone & Smith, 187 Middle
 †Burrows, Jno. W. & Son, 112 Preble
 †Burrows, Wm., 111 Kennebec
 Clark, C. J., 291 Woodford
 Cook, Norman H., 76 Cross
 *Cunningham, F. W. & Sons, 390 Congress
 †Dearing, Fred E., 96 Brown pl
 Dyer, Fred W., 19 Cotton
 Files, Herbert, 12 Howard
 Forgione & Romano, Henley, S. P.
 Gulliver, J. W., 102 Exchange
 Hanson, Chas. A., 191 Grant
 Hanson, Millard E., 201 Grant
 *Harmon, J. Emery, 273 Middle
 Harmon, Sylvanus, 238 Brackett
 Higgins, A. W., 19 Preble
 †Howatt, Chas. B. & Son, 192 Brackett
 Jewett, Wm. H., 144 Preble, S 1
 †Jose, Chas. F., 46 Gilman
 *Joy, Samuel W., Joy pl
 Libby, Addison, 97 Clark
 †Libby, Edw. B., 403 Allen av
 Lincoln, Samuel D., 6 Adams pl
 Lorello, Angelo (Stone), 107 Stevens av
 McKenney, Bion D., 12 New
 †Maine Construction Co., 16 Casco
 Marshall, F. H., Mussey rd, S. P.
 †Marston, G. L., 205 Adlen av
 Montgomery, Caleb, 177 Stevens av
 Moore & Berry, 167 Clark
 †Norton, W. R., 93 Brighton av
 †Nutter, F. C., 226 Evans pl
 †O'Neil, Thos. J., 111 Fee
 *Redlon, N. E. Co., 226 Federal
 Robinson, R. Sam'l, 99 Warren av
 Rowe Bros. Co., 60 Commercial
 Shortill, Jas. H., 19 Cotton
 Sylvester, Geo. S., 81 Preble
 Tibbetts, Chas. S., 1492 Washington av
 *Tibbetts & Smart, 3 Best
 Vail, G. Herbert, 53 Valley
 Ward, Josiah C., 27 Cotton
 Watts, J. M. & Sons, 231 York
 Westcott, J. P., 11 Westcott
 *Westcott, Jos. H., 81 Preble, S. P.
 White, Franklin, 1239 Congress
 †Worster & Wilson, 92 Stevens av
ROCKLAND—†Blackington, Arthur, Old County rd
 Farnham, J. N.
 Goulding, C. E.
 Robertson, W. J.
 †Sherman, Glover & Co., 221 Main
RUMFORD FALLS—Dunn, I. H.
 *Kerr, J. H.
 Metivier & Fisher
 Simpson, J. W.
 †White, W. I. Building Co.
SACO—Davis, Frank L.
 Russell, C. H.
 Small, M. A.
SANFORD—Harding, Geo.
 †Moulton, Moses
SKOWHEGAN—Goodwin, H. B.
 Hoxie, Jas. A. & Son
 Marsh, M. V. B.
 Puritan, Horace Co.
SOUTH PORTLAND—Crowe & Willard
 Dearing, Fred E.
 Doughty, G. W.
 Nason, Jno. F.
 Thomas, F. I.
 Whitlock, Stephen J.
TREMONT—Wallace, G. M.
WALDOBORO—Achorn, Orrin
WARREN—Stevens, John L.
WATERVILLE—†Braun, S. F.
 Cross, Orrison O.
 Cyr Bros.
 †Day & Smiley Co.
 Fitzgerald, C. H.
 †Stacey, E. M.
 †Winters, Henry T., 27 Boutelle av
WELLS—Littlefield, W. N.
WESTBROOK—Gray & Heuston
YARMOUTH—Partridge, G. W.
 True, A. W.

MARYLAND.

ANNAPOLIS—†Parlett, P. K. & Skipper
 †Stehle, Jas. J.
 †Walton, Jno. J.
BALTIMORE—Amerlean Contractors Corp. (Large)
 Bell, Richard W., 1417 N Milton av
 Bennett, B. F., 123 S Howard
 Bennett, Rufus, 312 E Lexington
 Besche Bros., 1241 Williams
 Billing, G. & Co., 401 Eastern av
 Bishop, J. W. & Co., 7 W Mount Vernon pl
 Blake, Geo. A., 301 Law bldg
 Bond, G. T., 1113 Riggs av
 Boone, R. C., 522 Falls rd
 Brady, Edw. & Son, Sun bldg
 Brady & Waters, 532 St. Paul
 Bruggmann, Frank, 1720 N Bond
 †Buckley, John T., 916 Bolton
 †Bunnecke, Geo. & Son, 305 St Paul
 Burdette, Chas. B., 1812 W Lexington
 Burdette, Harry, 2127 Hollins
 †Carstens, Fredk. C., 653 Cider al
 Chalk, T. M., 36 W Preston
 Childs, Wm. T., 16 W 20th
 Coster, James H., 1925 Mosher
 †Cowan, John, 106 W Madison
 †Cramp & Co., 407 St Paul
 Cross, Jno. H., 1026 Decheral
 †Cushen, P. J. & Co., 30 W Franklin
 Davidson, Geo. W., 1819 Maryland av
 †Decker, Fred & Son, 1209 E Biddle
 Dowling, Walter U., 512 Arch al
 Eyring, E., Fait av & 3d
 Fargo, Asa B., 930 Fkd av ext
 Feehley, Jno. T., 211 N Clinton
 †Ferguson, Wm. & Bro., 214 Clay
 Fowler, L. F., 602 W Saratoga
 Frazier, R. H. & Son, 220 St. Paul
 †Fuller, Geo. A. Co., Hoen Bldg
 Garrettson, F. W., 11 E Pleasant
 German & Co., 327 St. Paul
 Gilbert, Frank B., Piper bldg
 Hefestay, Chas. L., 1730 N Montford av
 Henderson & Co. (Ltd.), 218 W Fay
 Hildebrand, Wm., 15 Gay
 †Hiltz, John & Sons, 3 Clay
 †Hoffacker, Jno. W., 7 North Sharp
 Hughes, John, Jr., 232 St. Paul
 Hughson, Chas. I., 602 W Hoffman
 †Johus, Thomas P., 405 McCulloh
 Johnson, Harry, 312 E Lanvale
 Johnston & Perin Cont. Co., 407 Vickers av
 Jones, Thomas L. & Sons, 410 W Saratoga
 Jones, T. Milton, Fort av & Boyle
 †King, Thomas H., 17 N Frederick
 Knight, J. J. & Sons, 106 Clay
 †Kratz, Conrad, 239 S Collington av
 Krantz, John A., 319 N High
 Lyons, J. W., 560 Laurens
 McCaul, Chas. Co., 224 N Liberty
 Melver & Piel, 33 Builders' Ex bldg
 McLean Cont. Co., Towson & Nicholson
 Maas, Henry L., 119 Ensor
 Manning, W. T. Co., Equitable bldg
 †Marshall, John E. & Son, Vickers bldg
 Meiser, H. & Son, 204 Clay
 Miller, Chas. F. & Son, 634 Vine
 Miller, H. W. (Inc.), Clavert blk
 †Miller, J. Henry, 110 Dover
 Milske, Louis, 1229 Ashland
 †Minor, B. W. & E., 20 Clay
 Momberger, Henry, 34 W Chase
 Moran & Porter, 203 W Biddle
 Morris, A. D., 856 Linden av
 †Morrow Bros., 212 Clay
 †Murphy, W. T., 853 N Howard
 †Noel Construction Co. (Large), McCulloh & Eutaw
 O'Connor, James J., 2005 E Monument
 †O'Laughlin, Samuel W., 209 N Sharp
 Parrish, Elmer A., North av & Gay
 Pearson, Philip, 1028 Linden av
 Peters, Jacob, 314 St. Paul
 Pfaff, Geo. J., 2303 E Madison
 Phelps, Frank H., Chelsea av nr Beach
 †Pierson, Henry, 1002 Goodman al
 *Plaenker, Fred'k (Brick), 1641 E North av
 Player, Geo., 1028 Linden av
 †Preston, Edward D., 140 W Fayette
 Rassa, Alphonse J., 1414 Anthony
 Reid, G. F. & Son, 609 Cider al
 †Rippel, Henry S., 7 Clay
 Rudiger, G., 1023 McDonough
 Schoenlein, Lorenz, 2217 E Baltimore
 †Sheridan, Jno. A. Co., 321 N Hallday
 †Simpson, Chas. W., 415 E Lexington
 Slonaker, Chas. E., 1328 N Gilmore
 Smith, E. P., 545 Willson
 Smith, Henry & Sons, U. S. Custom House

†Smith, Henry & Sons Co. (Large), 116 S
Spreat, Sam'l, 203 N Pine Regester
†Springer, Eugene D., 428 S Charles
†Stack, John & Sons, 250 W Preston
†Stanfield, T. B. & Co., 109 Clay
Stein, Peter R., 1311 E Fayette
Stockhausen, Chas. L., Gay c Water
Storck, Edw. J., Fairmount av & Patuxent
Tall, Reuben H., 730 Light
Thomas, D. W. & G. H., 227 E German
Towson, W. W. & Co., 1028 Hillen-
Utterbaugh, Geo., 11 E Lexington
Vreeland, J. C. Building Co., Wash'n pl & C
†Walsh, J. H. & Bro., 406 S Charles
†Waters, John, 23 E Centre
Watters, Edward, 532 St. Paul
Watts, Chas. R., 824 George
Watts, C. C., 113 W Hamilton
Weeks, D. C. & Son, Light nr German
Welis Bros. Co., Union Trust bldg
Wells, Wm. H., 211 N Liberty
†Willis & Mason, 22 E Lexington
†Wright, M. Luther & Co., 324 W Biddle
Yewell, F. E., Calvert & 30th
Yewell, Henry, 327 St. Paul
Zion, Felix Y., Zion bldg
*Zoeller, F. V. (Brick), 657 W Lee

CAMBRIDGE—Bannock & Rogers

CHESTERTOWN—†Dwyer & Bro.

†Pippin, R. K. & Son
†Stuart, Montgomery
CUMBERLAND—Allen, A. B.
Cornwell, W. A.
†Cumberland Building Co.
†Dunn, Geo. T.
Hawk, Geo. S.
House, J. H. J. & Co.
†Mertens, F. Sons (Large)
†Reuschel, Jno.
Wise, Silas W.

EASTON—Flowers, M. P.

Ross, U. G.
Wright, W. G.

ELKTON—Cameron, L. O.

†Rambo, Jacob

FREDERICK—Burk, Jos.

Duvall, W. L.
Fleming, Chas. F.
Gittenger, M. H.

HAGERSTOWN—Burger, Jno. R. M.

Lamkin, S. Lewis
Trovinger, Clinton
Valentine, W. J.
Wolf, G. B.

LAUREL—Awalt, Frank W.

POCOMOKE CITY—Pilchard & Furness

SALISBURY—Booth, Wm. E.

Bounds, W. F.
Johnson, W. J.
Mitchell, F. M.
Mitchell, T. H.

*Slemmons, T. M.

WESTMINSTER—†Elgin, J.

MASSACHUSETTS.

ABINGTON—Jones, Albert S.

Leach, Edwards H.

ADAMS—King, Jno.

AMESBURY—Clark, Wm.

Currier, Edwin W.

*Dearborn, H. O.

Elkins, Geo. H.
Hall, Louis H.
Libbey, Leonard A.
McDougal, Alex. C.
Smith, G. Dennis rear Pond
Smith, Patrick J.
True, Ezekiel, 410 Main

AMHERST—Alkins, G. E.

†Allen Bros.

ANDOVER—Corneau, Arthur A.

Dodge, Frank E.
Pitman, Jno. E.
Welch, Jno. E. & Co.

ARLINGTON—Bacon, Arthur L.

Beaton, Alex.
Cotton, A. Eugene
Dunn & Hatfield
Jenkins & Sidda
Johnson, Geo. H.
Kelley, Thos. E.
Kenty, Geo. W.
†Shirley, Jno. E. & Son
Vail Bros.

ATHOL—Bemis, Thos. B.

Goddard, C. L. (Stone)
Twitchell, B. A. & Bro.
Woodward, F. C.

ATTLEBORO—*Bowen, C. L.

†Brownell, A. N.
Courtney, Jno. A.
†Currie, Malcom

*Dexter, E. O.

*Eden, John

†Grant, Bros.

Horn, Jno. J.

†MacKinnon & Nicholson

†Patterson, Chas. P.

†Perry, Emerson E.

Rawson, Hy. A.

†Slater, W. H. & Co.

Tucker, Almon H.

†White, H. E. & Co.

AUBURNDALE—Duff, Jno. W.

Harris, Wm. O.

Robertson & Simpson

*Scribner, W. E.

BELCHERTOWN—Davis, Chas. H.

BEVERLY—Cann, Edgar O

†Cann & Hurlburt

*Connolly Bros. (Stone)

*Crosby, Foreman A.

*Crosby & Cann, 33 Prospect

*Deschamps & Porter

†Dexter, Samuel R.

*Edwards, Edwin A.

Estey, Jos. N.

*Fitzgibbon, Thomas (Stone)

†Foster, J. & Sons

*Fowler, John C.

†Galloupe, William

*Grady, Michael & Son (Stone)

†Hardy & Day, 2 High

†Hooper, James D.

*Linehan, D. & Son (Stone)

†Morrissey, C. A. & J.

Ober, Prince, 363 Cabot

†Ober, S. F. & Son

Peters, Wm.

Publicover Bros.

Raymond, Benj. F.

†Stanley, Andrew

Stowe, Tremont F.

†Wallis, Henry B. & Son

†Wallis & Allen

Woodbury, R. A.

BILLERICA—King, Wm.

Smith, T. E.

Wright, Joshua

BLACKSTONE—Kenney, John

Taft, L. A.

BOSTON—†Abbott, E. A., 95 Milk

Alexander, F. C., Old South bldg

Allber, B. H., 79 W Dedham

Allen, Wm. S.

†Ames, Willard, 126 Harrison av

Anderson, A. C., 117 Warwick

†Babcock, C. & Co., 27 Beverly

Bakes Bros., 23 Beverly

†Ballantyne, Walter, 192 Dudley

Barker, Geo. H., 163 Causeway

Barron, Geo. W., Winship, cor Peaceable Br.

*Bellamy, H. A. & Co., Old South Bldg

†Belledun, C. H., 5 Province ct

Belyea, F. W., 71 Chestnut

Berrigan, E. D., 17 Storer

†Bertram, James, 330 W B'way

Bigelow & Mabie, 127 Federal

†Bishop, J. W. Co., 683 Atlantic av

Blaikie, T. B., 33 North

Blaisdell, Wm. F. C., 27 Catawba

†Blanchard, C. C., 24 Milk

†Bogart, I. H., 21 Barrett

†Boston Building & Construction Co., 1140 Columbus av

Boston Construction Co., 48 Washington, N

Boulter, L. S., 26 Wyoming

Bowman, Geo. H., 8 Hawley pl

†Bowers Bros., Von Hillern

Boyd & Berry, 11 Grampian way

Brackett, G. A. & S. W. Co., 59 Warren, Rox.

*Brennan, Stephen, Tremont bldg

†Brock, Nathan S., 39 Parsons, Br.

Brown, C. F., 88 W Broadway

Brown, H. C., 59 Congreve, Ros.

Brown, Jas. W., 63½ Chestnut

Brown, J. Henry, 170 Main

†Bruty, John W., 7 Water

†Burke Bros., 27 Columbia pl, Dor.

†Burke, D. F., 7 Alden

†Burns, D. F., 36 Bromfield

†Burt, J. H. & Co., 1617 Blue Hill av., Mat.

Burton, J. H., Roslindale

*Byrne, John B., Cambridgeport

Caddigan, J. J., Allston

Cahill Construction Co., 7 Water

Campbell, J. H., Jamaica pl

Carter, A. B., 44 Kilby

Caverly, Geo. W., 2080 Wash., Rox.

Chapman, H. B., 81 Bristol

Chisholm, A. C., 556 Warren, Rox

Chute, John N., 199 Berkeley

†Chute & Constable, 101 Tremont

Coburn & Boughton, Old South bldg

Colcord, Benj. F., Co., 7 Berkeley

†Cole, C. W., 38 Harvard

Cole, Wm. S., 813 Parker

Condon, Thos., 80 Maple, W. R.

Connell, Wm. A., 37 Harvard

*Connerey & Wentworth, 30 Pemberton sq

†Connors Bros. Construction Co., 95 Milk

Connors, Richard, 1055 Tremont

Cooper & Pelley, 50 Danforth

Coughlan, J. J. Construction Co., 104 Han- over

†Coyle, M. J. & Co., 347 Wash'n, Br.

†Cram, D. Henry, 23 Power, S. B.

*Crane, Wm., 7 Water

Cranston & Morrison, 8 Beacon

Creber, F. C. & Son, 41 Eustis

Crosby, William H., 311 Geneva av

Crowe, Jonathan, 791 Harrison av

†Crowell, J. W., 52 Charies

Crowley, F. G., 8 Province ct

Cummings, Chas. P., 15 Oakland

†Cummings, H. P. Co., 95 Milk

Curley, Walter, 1284 Blue Hill av

†Currier, C. E., 110 Summer

†Cutler, F. C., 236 Washn, Br

†Cutting, Geo. H. & Co. (Large), Tremont bldg

Damrell, T., 1272 Wash'n

Danforth, W. E., 11 Province Ct

†Daniel, John, 125 Albany

Daniels, Wm. F., Dorchester

*Darlow, George C., 20 Dearborn

Darnes, W., 56 Warren

Davidson, Wm. A., 117 Harvard, Dor

†Decker Bros., 147 Dudley

*Dennett, Erastus & Son, 16 Chardon

Dewar, Daniel, 60 State

Dingwell Bros., 214 Brooks, E B

†Dodge, Chas. A. & Co., 8 Beacon

Dodge, Chas. H. Construction Co., 23 Com- mon

Doherty, M., 236 Friend

Doody, Jno. H., Neponset

†Dooley, Jas. A., 29 Leicester

†Drake, Herman, 406 Border, E B

†Drisko, O. H. & Son, 166 Devonshire

Duffie, Richard, 31 Rexham, W. Rox.

*Dugad, Geo. R. & Co. (Stone), 166 Devon- shire

Duran, Chas., 60 Dent, W R

*Eagles & Irwin, 482 Tremont

†Eddy, L. W. & Co., 709 Dudley

†Edwards, Wm. C., 6 Beacon

Eisnor & McKillop, 160 Appleton

Eldridge Bros., Dorchester

Ellis, John, 18 Taber

*Emery, J. A., 166 Devonshire

Enright, N. A., 76 Hillside

Farquharson, T. J., 1815 Dorchester av

Fennell, Wm., 93 Travers

†Ferguson, J. H., Equitable Bldg

Ferguson, W. S., 127 W Canton

Field & Copeland, 24 Warren, Rox

†Fifield, Wm. S., 25 Bowker

Fillmore, W. Co., Cambridgeport

Fish, M. J., 157 Northampton

Flaherty, J. F., 151 Mt. Vernon, Dor.

Fletcher & Lahey (Stone), 166 Devonshire

Flewelling, Robert J., Lake, Br

†Flynn, J. J., 95 Milk

*Fosburg Co. (Mfg. & Power Plants, R. B.

Buildings, Office Buildings, Heavy Ma- sonry & Concrete), 6 Beacon

†Fox, Benj., Devonshire bldg

Foye, F. W., 40 Batterymarch

†Frame & McPherson, 99 Border, E B

Fraser, G. R., 6 Province ct

†Fraser, James C. & Sons, 4 Province ct

Fraser, Norman D., 7 Braintree

Freeman, E. F., 2a Ramsey

Fritz, N., 62 Maywood

†Fuller, Geo. A. Co., Board of Trade bldg

Furber, O. E., 6 Beacon

Gardner, Luther B., 113 A Warren (Rox)

Gates, S. R., 233 Atlantic av

Gay Bros., 45 Gurney

†General Construction & Repair Co., 101 Tremont

†Gerry & Northrup, 458 Harrison av

Gibson, Rich'd, 166 Devonshire

Gilbert, Edwin & Co., Tremont bldg

</

Harkin, Chas. A., 1221 Dorch. av
 †Harvey, Geo. W. Co., 24 Milk
 †Hathaway's, A. Sons, 77 River
 Head, J. T. J., 14 Bway ext
 Hebb, Wm. C., 15 Scotia
 Hersec Bros., 4267 Washington, Ros
 †Hersey, Ira G., 166 Devonshire
 †Hidreth, J. W. & Son, 397 Atlantic av
 Hill, Peter W., 179 Summer
 †Holmes Bros. Building Co., 27 School
 Horsman, Geo. R., 1894 Dorchester av
 †Horton & Hemenway (Large), 683 Atlantic
 †Hoyt, Wm. E., 75 W Cautou
 Hughson, Wm., 121 Elliot
 †Hunt, H. H., 166 Devonshire
 Huntley, W. G., 364a Warren, Rox.
 †Hussey, H. S., 47 Beunet
 Irving, A. S., 35 Clarendon
 †Jackson, James, 121 Ruggles
 †Jackson, P. H. & Son Co., 79 Milk
 †Jacobs, D. H. & Son, 166 Devonshire
 †Jacobs, Jas. H. Co., 116 Bedford
 †Jarvis Engineering Co., 61 Oliver
 Johns, T. E., 110 Cedar
 Johnson, Dawson, 7 Burroughs, J P
 Jonah, Leonard, 77 Joy
 †Jones, Arthur D., 76 Kingston
 Jones, J. W., 3 India sq
 †Jones & Meehan, 10 Tremont
 Joslin, Arthur W., 21 Alpine
 †Kempston, Herbert, 6 Murray ct
 †Keyes, W. H. & Co., 95 Milk
 †Landick, W. G., 9 Lime
 Laplante, Frank, 3 Woodville, Rox.
 Laveau, Edw., 46 North
 †Laws, W. H. H., 84 Harrison av
 Le Lacheur, Jas., J. P.
 †Letteney, C. F., 3 Province ct
 Linehan, F. J. & Co., 195 W 5th
 Locatelli, J. E. & Co., 15 School
 †Lockhart, W. & Co., 18 Harvard pl
 †Logue, Chas., 9 Cornhill, Dor.
 Lurie, H. & Co., 91 Salem
 Lynch, Edward, 199 Berkeley
 †McArdle, Jas. W., 95 Milk
 McCabe, D. S., 31 Fulton
 McClellan, Jos. B., 665 Boysland
 McClure, Newell W., 23 Common
 McDonald, M. F., 37 Feelt
 †McGaw, John & Sons, 128 Washn, N
 McGregor, John B., 83 W Concord
 †McIntosh, A. G., 2 Creek sq
 McKay, E., 19 Harvard pl
 McKenzie, A., 14 Bennet
 †McLaughlin, H., 511 Tremont
 McLaurin, Jno. D., 498 Harrison av
 †McLean, Isaac, 31 Lancaster
 McLean, J. Edw. L., 10 Faneuil Hall
 †McMurtry, A. J. & G. H., 10 Shepard, Br
 †McNabb, Hugh J., 438 Geneva av
 †McNeil Bros., 196 Freeport, Dor.
 McPherson, Michael, 1140 Columbus av
 †MacDonald, Angus, 161 Devonshire
 Mabie, Wm. L., 9 Cornhill
 Macdonald, Angus A., 16 Ash
 Mack, J. J. & T. F., 95 Milk
 †Mack & Moore, 22 Chapman
 †Macomber, Geo. B. Co. (Large), 16 State
 Macomber, J. M., 75 W Dedham
 †Mainland, John Y., 166 Devonshire
 †Malone, Bernard, Corey rd, Br.
 Mansfield, S. W., 25 Harvard
 Markley, Thos. J., 117 6th
 Marr Bros., 141 Milk
 †Marston, L. K., 220 Devonshire
 †Martin, L. & Co., 143 Harrison av
 May, Chas., Dorchester
 †Mead, Charles H., 15 Beacon
 †Mead, Mason & Co., Tremont bldg
 Merritt & Jarvis, 12 Marshall
 Merz, Gottlieb, 306 Centre, J P
 †Mitchell & Sutherland, 166 Devonshire
 Morcombe, F. T., Jr., 209 Essex
 Morrison Co., The, Tremont bldg
 †Morrison, A. C., 9 Starr lane, J P
 †Morrison, George W., 65 Wareham
 Mosher, Otis B., 39 Green, J. P.
 Moulton & Webb, 486 Harrison av
 Muldoon, J. & W. H., 33 Maple av
 †Murphy, Stephen, 132 Boylston
 Murray, Edward, 33 Hawkins
 Nason, Arthur E., 14 Cambria
 †National Fireproofing Co., Old South bldg
 Nelson, J. E., 34 Beverly
 †New England Cons. Co., 53 State
 Nichols & Morton, 17 Harvard pl
 †Nicholson, Jos. & Son, 101 Tremont
 Nolan, Jno. H., 373 Centre, J P
 †Norcross Bros. Co. (Large), Tremont bldg
 Norris, Chas. D., 30 Bedford
 †Noyes, C. A. & Co., 103 Tyler
 †Oakman's, Henry P. Sons, 3 Oakman, Dor

O'Brien, Peter F. & Co., 29 Scotia
 O'Hearn, Patrick, 1464 Dorch av
 Oliver, Walter L., 136 Harrison av
 Olpin, S. J., 577 E 8th
 †Page, G. & J. W., 213 Pleasant
 Peck, H. W. & Co., 89 Compton
 Pickett, C. M., 655 Centre, J. P.
 Pineo, J. H., 24 Warren, Rox
 Pinney, Geo. H., 52 Charles
 Plotti, A., 38 Olney
 Piper, E. E., 101 W Brookline
 †Pope, G. W., 440 Columbus av
 Powell, Charlotte A., 21 Columbia rd Dor,
 †Powell, Thos. W. & Son, 14 Oxford
 Powers, Frank H., 52 Charles
 Pride, A. M., 11 N Russell
 Proctor, Edgar W.
 †Proctor, Jno. H. & Co., Old South bldg
 Purssell, Jas. B., 1241 Morton, L. M.
 Rafferty, Benj. J., 165 Dudley
 †Rand, David L., 166 Devonshire
 Randlett, Frank H., 457 Dudley
 †Redmond, C. D., 233 Pleasant
 Rice, Benj. J., 27 Carver
 Ringer, A. C., Allstn
 Roberts, G. F., 152 Tyler
 †Robinson, L. D., 394 W 1st
 Robinson, Wm. W., Bowditch ct., Rox.
 Rockwell, F. J., 131 Wilmington av
 Rockwell, Walter F., 130 Water
 †Rooney, John A., 95 Milk
 †Root, W. A. & H. A., 42 Dunlow
 Rose, Benj., 63 Sanford
 †Ross, Henry F. Co., 166 Devonshire
 †Ross, Thomas A., 199 Green (J. P.)
 Rounds, W. J., 75 Joy
 Sale, J. A., 94 Commercial
 †Sanhy, William, 213½ Commercial
 Sharkey, W. C. & Co., 31 Barrett
 Shaw, G. D., 45 River
 Smith, B. F. Co., 116 Bedford
 Smith, Chas. O., 4272 Washington, Ros
 Smyth, Fred. E., 18 Cambria
 †Soule, L. P. & Son, 166 Devonshire
 †Spear, George A., 8 Bellevue, W R
 †Spenceley, W. S., 14 Abbott (Dor.)
 †Starbird & Johnson, 292 Main Chsm
 Stevens & Long, 658 Harrison av
 †Stoddard, Elliott & Son, 28 Bromfield
 Strang, Jno., T., 22 Peaceable, Br
 Sullivan, Jas., 346 E
 Sullivan, M. F., Beach & Atlantic
 Sutherland, John S., 95 Milk
 †Svea Construction Co., Old South Bldg
 †Sylvester, H. H., Tremont Bldg
 †***THOMPSON-STARRETT CO.**
 (General Building Construction), 141 Milk.
 (See adv. index, end of book)
 Tobin, Wm., 32 Perkins, J. P.
 Tracy, T. T., 33 Tyler
 †Trafton, S. P., 33 Hawkins
 Trethewey, A. J., 19 Robert, Rox.
 Tucker, E. E., 233 Atlantic av
 †Tufts, George M., 29 Wareham
 Uulacke, Thos., 27 Wareham
 †Vallee, Francis, 1196 Harrison av
 Varnerin, A., 15 School
 Vatcher, Simeon J., 32 Tyler
 Wagner & McFarlane, 649 Wash, Dor
 Walsh, L. F., 14 Cambria
 †Warnock, James, 446 Atlantic av
 Watson, Walter, 43 W Newton
 †Weaver, Isaac, 24 Milk
 Welch, Thos. F., 61 Gardner, W R
 †Whidden & Co., 155 Milk
 †Whitcomb, F. L., 17 Wareham
 Whitcomb & Kavanaugh, 6 Beacon
 White, John, 634 B'way, S. B.
 †Whitney, Arthur C. (Large), 18 P O sq
 †Whiton & Haynes Co., John Hancock bldg
 Wight, W. E., 69 Bowdoin, Dor
 Wilkinson, Frank, 180 L, S B
 †Wilkinson, J. C., 8 Province court
 †Willcutt, L. D. & Son, 166 Devonshire
 Wilson, Robert, 15 Ashburton pl
 Willson, Wm., 94 Warren
 †Wisdom, J. E., 86 Chardon
 Wood, Artemas R., 654 B'way, S. B.
 Wood, J. H., 41 Beverly
 †**WOODBURY & LEIGHTON CO.**
 Woodman, C. E., 9 Ferd. 166 Devonshire
 Woolner, C. R., 15 Harvard pl
 †Wylie, Charles, 9 Province
 Yates & Jones, 123 W Canton
 York, Jas. M., E 1st opp I
 BRAINTREE—Holbrook, George H.
 Robinson, J. H. G.
 BRIDGEWATER—Fletcher, A. M.
 Hayward, Geo.
 †Johnson & Turner
 Keith, R. M.
 Neville, James

BROCKTON—*Anderson, Chas. E., 68 Hillside
 †Arnold Bros., 34 Myrtle
 Berry, Jno. E., 15 Green
 †Blanchard, A. F., 24 Clifton av
 †Booker, D. E., 150 Centre
 Bowden, Geo. E.
 Briggs, H. C., 105 Chestnut
 Cross, Charles H., 254 Market
 Crowell, Thos. F., 31 S Campello
 †Eldridge, Geo. W., 371 Moraine
 †Fish, Charles H., 457 Pleasant
 Gardner Bros.
 Greer, James K., 15 High
 †Hall, Dana L., 35 Alton
 Hall, John W., 34 Hervey
 Hanson & Sheeley
 †Hayward Bros., 351 Monticelle
 †Howard, George (Large), 57 Forest av
 †Hoyt, W. N., 124 Jacob
 †Irving, David, 243 Howard
 †Jackson, J. A., 294 Pleasant
 Jackson, P. H. & Son Co. (Large), 78½
 Railroad av
 Jackson, Willard E. (Stoues), 560 Sumner
 Janes, A. E., 445 Belmont
 †Kelly, Wm., 15 Spring
 †Lays, Wm., 80 Railroad av
 †Long, M. D., 73 N Warren av
 Lindsay, John, 200 N Main
 †McDonald, Hugh, 133 Lawrence
 †Nordbeck, A. F., 57 Menlo
 †Noyes Bros., 83 Weston
 Olson, Charles T., 53 Malvern rd
 †Phinney, Samuel I., 26 Mason
 †Poole, A. P., 86 Main
 Poole, J. M., 243 Ash
 Porter & McLeod, 356 Crescent
 †Sampson, E. T., 140 Walnut
 †Shields, James, 363 Forest av
 Smith, C. R., 15 High
 †Smith, Edgar O., 46 Appleton
 Stetson, William, 50 Milton
 †Swain, D. G. & Co., 14 Foundry
 Tibbetts, John, Cleveland av
 †Wardwell, H. H., 103 Walnut
 †Washburn, S. B., 27 Porter
 †Wass, Henry, 38 Porter
 Wright, Chas. A.
 BROOKFIELD—Ward, Justin
 BROOKLINE—†Bailey, Arthur H., 65 Kent
 Cantwell, P. J., Perry c Brook
 Carroll, Frank B. Co.
 †Carroll, Henry A.
 †Delano, O. B. Sons, 346 Washington
 Dickson, Matthew
 †Driscoll, Dennis (Stone), 21 Kent
 †Driscoll, James & Son
 Field, Copeland & Crocker
 Fram, J. Stanley
 †Freeman, H. S.
 †Goodwin, Willard A., 13 Goodwin pl
 †Goodwin & Mitchell
 †Griffin & Sollis
 †Johnson Bros. (Brick & Stone)
 †Leighton, Lincoln I.
 †MacKinnon, Nell
 Nealey, M. D., 114 Chestnut
 †Neal, B. W., 293 Boylston
 †Pineo, J. H.
 †Reynolds, Milton F.
 Shorey, Albion F.
 †Toombs, W. H. & Co.
 CAMBRIDGE—Beedle, M. C., 31 Wendell
 Burns, David F., 5 Blackstone
 Brock, Edwin O.
 Byrne, Jno. B., 228 Main
 Burwell, Edward G.
 Callahan, Chas. H., 122 Sherman
 †Connell, Jas., 133 Webster av
 Connor, J. W., 11 Beach
 Corlmer, Daniel F., 2 Russel
 Cummings, H. P. Co., 153 1st
 Currie, A. Y., 376 Harvard
 †Delaney, J. P., 13 Boylston
 Dinsmore, Daniel K., 13 Boylston
 Donaldson, Robert D.
 Donovan, D. F. & Co., 277 Portland
 Dooley, C. T., 32 Market
 †Filmore, W. Co. (Inc), 25 Cherry
 Fraser, Jas. B.
 Furbush, Fred. B., 25 Church
 Gernon, Peter Co.
 Gillespie, I. W., 475 Main
 Gillis & Collins
 †Greenleaf, A. P., 404 Mass. av
 Grovestein, R. Currie
 †Haley, T. F., 5 Palmer
 Harvey, G. W., 147 1st
 Hattle & Hawkins
 †Hayden, Z., Murray nr Charles
 Heron, Wm. J. & Co., 632 Mass. av

†Hersey, Ira G., 113 B'way
 Johnson, O., Oxford av
 Kelly, S. J. & Son, 19 Western av
 Lavash, A.
 Leahy, Thos, 6 Antrim
 Leake, Chrstr., 25 Warland
 Lyon, Jas. F., 37 Garden
 †McArthur, Isaac W., 580 Putnam av
 *McGahey, Henry, 218 Main
 McGirr, Jno. C., 1522 Cambridge
 †McIsaac, John A., 15 Washington
 McKinnon, Jno. W., 2013 Mass. av
 Mahaffy, Jno. T.
 †Mahoney, C., 69 Gore
 *Mahoney, Jas., 325 Windsor
 Mainland, Jno. Y., 84 State
 Matthews, James
 Miller, Chas. M., 64 Orchard
 Molloy, Chas. E.
 Muirhead, Jas., 51 Norfolk
 Nesblitt, John, 70 Boylston
 Norcross Bros., foot Brookline
 Norris, W. H., 27 Western av
 Ouellet, C. J., 187 Sherman
 Packer, C. M., 72 Chestnut
 Patterson & Fox, 1287 Cambridge
 Perry, Ralph L.
 Pollock, A. L.
 Powers, David W., 41 Gibson
 †Powers, J. J., 49 Baldwin
 †Powers, Thos., 10 Palmer
 Quin, Jno. & Son, 25 Otis
 Rice, Chas. S.
 Rice, I. B.
 Roach, Charles S., 6 Upland rd
 †Ross, L. S., 36 Fairmont
 Ryan, Thomas, 17 Clary
 Snow, Russell L., 211 Allston
 Sullivan, Jeremiah, 75 Howard
 Tenney, M. A.
 Tobey, S. A., 4 Putnam et
 Waugh, Jno., 115 Mt Auburn
 Wentworth, R. & C. G., 7 Essex
 Whitcomb, Frank L., 113 B'way
 *White, Fred. O. Construction Co.
 Willard, Chas. F.
 †Wilson, Gustavus, 302 Columbia

CANTON—Bright, Alonzo
 Estey, H. L.
 Healey, Patrick F.
 Healey, Wm. F. & Son
 Moore, Lawrence
 Stone, Jos. F.

CHELMSFORD—McMahon & Harrington
 Parkhurst, Charles E.
 Wotton, J. S.

CHELSEA—†Bachelder, Walter (Large)
 Bishop, Hugh M.
 Campbell, Frederick M.
 Delano, Wm. J.
 Donnell, Chas. C.
 Ford, Geo. W.
 †Grover, Walter D.
 †Haley, Michael S.
 *Haskeil, J. C.
 Hutchins, Sherman C.
 †Jones, Francis A., 6 Jones av
 Kibby, Charles
 †Lincoln, John W.
 †Wyman, Fred. A.

CHICOPEE—Hogan, John J., 178 Centre
 *McLane, M. J., 29 Abbey
 Minard, Joseph T., 31 Pleasant
 †Murphy, Dennis, 44 Granfield
 *Rourke, Patrick, 18 West

CHICOPEE FALLS—Paine Bros., 155 Main
 *Sullivan, Jno. D., 96 Sheridan

CLINTON—*Barnard, G. A., 953 Main
 *Cannon, W. F. (Brick), 26 Prospect
 Clark, Daniel W., 888 Main
 †Lowe, Forace H., 141 East
 †Norton, W. V., 16 Palmer
 †Perham, A. O., 536 High
 Philbin, John J., 179 John
 Robinson, A. J.
 †Schmidt, Richard, 17 Birch
 †Welch, H. W., 124 Water

CONCORD—Hopkins, Jno.
 McWalter, Patrick
 Wilson, Richard L.

DANVERS—Aiken, Chas. F.
 †Berry, Wm. A.
 Blanchard, Clarence E.
 Crosby, Isaiah
 †Fay, Thomas
 †Foster, James E. & Son
 Gilliland, Edw. (Stone)
 †Guppy, Luther A.
 Marshall, Alfred O.
 †Mosher, Carlton B.
 †Peabody, Elisha B.

†Peabody, George M.
 *Sullivan, John (Stone)
 *Webb, W. Arthur (Brick & Stone)
 *Webb, Ernest S. (Brick & Stone)
 †Whittier, Joseph M.

DEDHAM—Alexander, H., Walnut Hill

†Dix, F. A.
 Fales, W. A.
 Googins, Orrin C.
 Hogan, G. H.
 Lock, Hy. S. & Son
 McGuinness, Matthew J.
 †McLean, M. H., Jersey
 Rogers, M. J.
 †Sherman, R. J.
 Stevens, H. H.
 Withington, Otis W.

DRACUT—Amyotte, Jos.

EAST BRIDGEWATER—*Whiting, John M.

EASTHAMPTON—*Coleman, Wm. W.
 *Coyle, Bartley & Son
 †Ferris, Addison J.

EAST WEYMOUTH—Blackwell, C. W.

Hale, H. H.
 Simmons, Chas.
 EVERETT—†Armstrong, W. B.
 Atkins, Chas. W.
 Bennett, Geo. W.
 †Blanchard, Alonzo E.
 Corey, Benj. L.
 †Hughes, Peter
 Kerwin, Thos.
 Russell, Geo. E.
 Sweetland, Geo.
 †Thurston, Ralph, 44 Main

FAIR HAVEN—Bates, Frank M.

*Dodge & Grant

FALL RIVER—†Allardice, James, 147 3d
 *Beattie & Cornell (Large), 33 N Quarry
 *Beattie & Wilcox (Large), 840 Bedford
 Borden, Walter F., 338 Pine
 †Borden, Wm. A., 389 2d
 †Burt, P. S. & Co. (Large), 606 Prospect
 †Cahoon, Chas. T., 896 New Boston rd
 †Callahan & Daley Co., 125 S Main
 †Caron, Zephirin, 153 Barnes
 †Clarke, Horace A., 98 Stafford rd
 †Cooper, T. H., 799 Charles
 †Cormier, Louis, 195 Peckham
 *Corrigan, Patrick, 4 Morgan
 *Crowe, John (Large), 78 Bedford
 †Darling, J. M., Bennett bldg
 *Donnelly, Jas. A., 225 Bedford
 *Granite Construction Co., Middle c S Main
 †Hardy, Edgar W., Gardner's Neck rd
 †Hodgate, Chas. H., 103 Bank
 Labrie, J. P., 319 Anawan
 †Leeming, A. H., 353 Bank
 †Lincoln, N. M. & Son, 40 Granite
 *McCarthy, Jeremiah H., 28 Downing
 *McNally, Michael, 279 Pitman
 †Marcoux, J. A., 53 Norfolk
 †Moore, Daniel, 27 3d
 †Olding Bros., 508 Centre
 †Powell, Morgan & Co., 1036 Pleasant
 *Sears, C. H. (Large), 389 2d
 †Sisson, B. F., 239 Grove
 †Smith, Samuel, 75 Granite
 *Snyder & Manchester, 118 Warren
 *Wagner, J. O., 258 Franklin

FITCHBURG—Blood, Frank C., 19 Lunenburg

†Carter, W. C., 22 Beacon
 Cook, Orin S.
 Cummings, Jos.
 †Fournier, August, 136 Clarendon
 Hearlily, Wm. T., 115 Milk
 *Lawrence, S. S. & H. N. (Large)
 †Littlehale, J. D., 31 North
 Moran, John
 Porter, A. S. Co.
 †Russell, Peter, 40 Clinton
 †Starr, F. A., 16 Cross
 †Stebbins, A. A., 119 Myrtle av
 *Wiley & Foss (Large)

FLORENCE—Brewer, E. B., 97 N Maple

Brown M., 96 High
 Bush, Chas.
 Warner, A. C.

WEBSTER, Dixon & Co.

FOXBORO—Scott, David & Son

FRAMINGHAM—†Kyte Building Co.
 FRANKLIN—Dauphinne, Geo. C.

Grant, G. H.
 McGulre, B.
 Stevens, Ross
 GARDNER—Coleman, Edw. P.
 †Favor, Milton M. (Large)
 †Gale, H. W.
 †Leamy, Jno.
 Moran, W. H.
 †Soule, Wm.

St. Hilalre, Napoleon
 †Whelan, Thomas, 216 Pleasant
 GLOUCESTER—*Ballou, Dennis C. & Co. (Stone)
 †Blanchard, Meivin A.
 Brown, Chas. N.
 *Cressy, Walter (Stone)
 Crisplin, A. H.
 Day, Jno. W., 347 Washington
 Garand, Simon, 8 Commonwealth av
 Gibson, Samuel S.
 †Griffin, E. S.
 Hart, Joseph P., 936 Washington
 *Hlggins, Geo. E., 113 Prospect
 Hodgkins, Wm., 3d, 119 Rogers
 Huff, B. H., 4 Curve
 †Johnson, Frank M.
 †Lane, F. H.
 *Lane, W. N.
 †McDonald, Roland
 †Maddix Bros., 9 Millett
 *Marshall, Ben., 35 Granite
 May, Jonathan
 Norwood & Montgomery
 Sargeant, Horace, 69 E Main
 Severance, F. G., 5 Montgomery pl
 Torrey, H. L., 135 E Main
 †Van der Wel, M. & Co.
 †Vivian, William H.
 †Watson Bros.
 Watson, Geo. A., 29 Taylor
 †Winchester & Brooks
 GREAT BARRINGTON—Gorham, William T.
 Kane, Patrick
 Shaw, Edw. II., Van Deusen
 Viola, John
 GREENFIELD—Barrington Building Co.
 Shaw, Edward H.
 Viola, Jno.
 GROVELAND—Donnell & Small, School st
 George, E. H., Main c School
 †Wales, A. L., King opp. Town Hill
 HAVERHILL—Ayers, C. S., 57 Fleet
 †Bailey, Horace
 Blake, Jos. P. & Sons, 58 Franklin
 †Bourneuf, A. R., 19 Essex
 Bradley & Brown, 108 Merrimack
 *Brickett, Levi P., 19 Main
 Cashman, Jno.
 †Cate, Fred. H., 2 Clinton
 †Cole, N. S. & Son
 Cook, Christopher C., 11 Pleasant
 †Cook, Thomas R., 116 Merrimack
 Crosby, Jacob N., 1 Crosby
 Cunningham, J. O., 29 Seventh av
 Currier, A. N., 504 Groveland
 Dorsey, Thos., 49 5th av
 Fletcher & Lahey (Stone)
 †Griffin, Sidney A., 22 Webster
 †Ham, W. W., 174 McK.
 Hanson, Stephen W.
 *Kaveney, Michael, 146 Primrose
 *Kelly Bros., 6 Park
 †Killam, Lewis K., 58 Fleet
 Littlefield, A. H., 214 Groveland
 Marshall, Jos. A.
 †Potter, Warren W., 30 Pleasant
 †Pressy, M. D., 139 Main
 Roche, J. M., 10 6th av
 †Rogers, Jacob E. & Son, 55 Main
 HOLLISTON—Crowley, Chas. M.
 French, G. M.
 Goodrich, C. A.
 Leland, Henry & Son
 HOLYOKE — *Archambault, Joseph L. R.
 (Stone), Crescent c Appleton
 †Beauchemic, Oscar, 298 Elm
 †Beaulieu, L. T., 526 S Summer
 †Cain, N. L. (Large), 113 Pleasant
 †Carreau, Louis, 730 Chicopee, Will.
 †Cleary, Michael, Northampton & Columbus
 †Curley, F. J., Jr., 371 Main
 †Dibbie, Frank H., 94 Nonotuck
 †Doane & Williams, 114 Front
 †Geoffrion & Desrochers, 805 Main
 Hart, Edw., 20 Washington av
 †Jones, A. A. (Large), 283 Hampden
 †La France, Louis A. (Large), 400 High
 *Landers, D. J. (Brick), 231 High
 McCormick, A. D., 43 Gates
 *O'Connell's, Danl. Sons (Large), 188 Hamp-
 †Prew, John J., 887 Main
 †Ranger, Casper (Large), 10 Bond
 *Richard & Goddard (Large), 253 Oak
 †Thorpe Bros. (Large), 43 Pearl
 HOPKINTON—Coburn, Hy. E.
 Hemenway, Elmer E.
 HUDSON—Allen, Adin B.
 Barrett, John H.
 †Fletcher, Arthur L.
 *Jones, Edwin A.
 †Powers, Amos P.

HYDE PARK—†Coveney, Jas. S.
Haley, Chas.
Higgins, Cornelius J.
Jigger, Jno. W.
Paine, John A.
Williams, Rinaldo

PSWICH—Brown, Irving
Choate, Edward
Lord, A. L.

INGSTON—Baker, Thatcher
Hammond, W. C.
Holmes, George B.
Phillips, Wendall
Woodward, Frank C.

AWRENCE—†Blanchette, George, 640 Essex
†Boisvert, Jos. A., 459 Common
†Brown, Horace, 92 Howard
†Bourque, Ernest, 47 Beacon
*Call, Albro R., 86 Jackson
*Cole, Geo. M. Co., 40 Chandler
†Couch, H. J. & Son, 63 Cross
†Curnew, J. S., 41 Greenwood
†Dick, Ernest A. Co., 209 Ferry
†Doyle, Wm. T., 220 B'way
*Driscoll & O'Brien, 399 S B'way
Flanagan, Jas., 186 E Haverhill
†Gelsler, Fred. G., 16 Cornish
*Hill, Byron, 21 Newberry
†Holden, L. N., 354 S Union
Joyce, Jas. H. & Thos. A., 44 Myrtle
*Keegan, John, 246 Oak
†Keilhau, C. H. E., 33 Park
Lang, A. S., 8 Green
Locke, L. E., Hampshire c Essex
Lord, Arthur, 58 Salem
Lyons, David D. & Son, 171 Bailey
Milligan, Richard P., 455 Hampshire
Morneau, Louis G., 7 Green
†Murphy, John W., 110 Saratoga
†Neshlitt, T. W., 250 Jackson
Newton, Henry M., 398 Essex
*Nowell, Silas K. & Sons, 19 B'way
†Otis, George A., 239 B'way
O'Brien, Thos. A., 6 Winter
*Peabody, E. A. & Son
†Pike, Wm. N. & Sons, 246 Essex
†Pitman, Ernest W. (Large)
Pratt, E. G., 123 Franklin
Ryder, Henry, 2 Jackson
†Searle, E. & Co., 87 May
*Sirois, Joseph, 105 B'way
Steinert, Otto E., 288 High
Tobin, John, 458 Common
†Unwin, Horace J., 118 Spruce
*Wagenbach, J. & Sons, 195 Willow
Walker, Samuel, 419 Andover
†Watson, Edwin, 139 West
†Winkley, Alonzo, 127 S B'way
Woodman, Harold A., 207 Blanchard
Zschegner, Henry, 53 Chestnut

EE—Bent Bros.
Heaphy, Wm. A.

ENOX—†Clifford & Sons
Mahanna, Wm.
Roohan, Thos. E.

DOMINSTER—Adams, Walton E.
Dunn, Wm. F.
Leavitt, F. M. & Co.
Spring, H. N.
†Stuart, Edwin R.
†Webber, Paul

EXINGTON—Dacey, Patrick F.
Deveau Bros.
McKay, Jno.
O'Connor, Timothy H.
Swan, Charles W.
Tuttle, David A.
Washburn, Abram C.

ONG MEADOW—†Watters, Joseph W.

OWELL—*Barton, Cyrus, 78 S Walker
Bassett, F. G., 48 Riverside
Beharrell, Stephen W., 238 London
†Beharrell, Frank C., 89 Fremont
†Beharrell, Joseph R., 34 Berkley av, Oak-lands
†Bennett, Jas. W. Co. (Large), 564 Middlesex
†Biheault, Alphonse, 513 Wilder
Biheault, Elisee, 138 B
*Boisvert, J., 83 Ennell
Bradley, I. L., 8 Grand
Burtt, C. H., 142 3d
†Conant, Charles P., Hildreth Bldg
*Conlon, Patrick, 339 Concord
Connell, Clarence J., 377 Walker
Crosby, B. F. & Co., 111 Moore
Davidson & Edgecomb, 32 Franklin
Dickey, Leroy W., 17 Edson
Donger, Jos., 24 Daly
†Douglass, E. W., 19 Bertram
Dow, James, 149 B
Drapeau, William, 3 Hancock av

†Ellis, Oscar P., 61 Ellis
Fay, Edgar G., 3 Robbins
*Fay, Frank, 81 London
Fuller, Fred A., 125 Coburn
Gayette, Napoleon, 20 Church
Genest, Arthur, 111 Genoa av
Genest, Ernest, E Meadow rd nr Moody, Paw.
†Graves, W. H., 35 7th
Griffin, Chas., 121 S Walker
Jalbert, Jos., 100 4th av
Johuson, C. W., 7 Houghton
Knowlton, Jno. K. & Co., 137 Market
Leach, Lucien K., 16 Whitney av
†Libby, D. D., 162 Sanders av
†Lindsay, Geo. A. & Co., 127 Market
Lorrain Wilfred, 35 Puffer
Lowell Construction Co., 12 Butlerfield
Morin, F. X., 478 Moody
†Morton, Chas. A., 173 School
Needham, Chas. W., 615 Chelmsford
Nelson, Clarence H., 85 Mansur
Nichols, Elijah M., 24 Webster
O'Hearn, Patrick, 282 Riverside
†Penn, Wm. H., 262 London
†Raheour, Arthur F., 984 Bridge
Roy, Jos. A., 644 B'way
Ryan, D. G. & Co., 97 Humphrey
†Sanboru, Fred W., 44 Fred
Sherman, F. W., 163 Dartmouth
Simpson, Jno. A., 67 Methuen
Snow, S. E., 16 Tilden
*Staples Co., School nr Gas Works
Staples, Geo. H., 14 Appleton
Sutherland & Taylor, 14 Pearl
Thompson, Jos. T., 708 Central
†Twohey, E. G., 14 Madison
Walker, J. H., cor Wothens and Fletcher
Whittet, James, 19 Pleasant
†Whittet & McDonald, 13 Pleasant
Witham, O. P., 22 Rhodora

LUDLOW—La Broad, Jos. L.

LYNN—†Andrews & Jones, 12 Atkins av
†Barker, Arthur W., 13 Arlington
†Belhen, Nathaniel, 32 Hillside av, Swampscott
*Bessom & Hazel, 13 Sewell
Blaisdell, Jas. A., 19 Holton pl
†Blanchard, W. H., 823 Washington
*Bryer, A. E., 461 Western av
†Campbell, Thomas, 2d (Large), 99 Sagamore
†Cann & Haken, 114 Munroe
†Dearborn Bros. & Co., 459 Union
†Dearborn & Parker, 143a Broad
†Elder, John E., 64 Light
†Emery & Timmins, 117 Central av
†Fadden, Jos. G., 52 Silsbee
†Felch, Fred'k C., 15 Bailey
†Fernald, John, 60 Marshall's Wharf
†Foster, Geo. W., 28 South Elm
†Green, Thomas, 81 Collins
†Hardy, H. E., 237 Chatham
†Hart Bros., 36 Pacific
†Haskell & Sutherland, 34 Bullfinch
Haskell, F. H., 58 Harbor
†Healy, Jas. A. & Son, 59 Exchange
Hyde, E. F., 37 Estes
†Langille, Dan (Large), 45 Atkins av
†Logie, William, 402 Western av
McCormick & Son, 7 Cressey pl
*Manning, Jas. E. Co. (Stone), 26 Beacon Hill av
*Markee, O. J., 84 Norfolk av, Swampscott
Mayo, F. D., 333 Union
†Mills, H. J., 33 State
†Morrison, W. W., 365 Boston
Potter, R. D., 113 Munroe
†Reynolds, Edward T. (Large), 61 Exchange
†RJordan, Daniel, 58 Mt Pleasant
†Seavey, James F., 12 Alice av
Shea & Donnelly, 28 Harbor
Sheehan, Jno. & Sons, 585 Western av
Simonds, S. Walter, 32 Crosby
*Smith, Wm. W., 182 Oxford
†Southworth, Alden, 38 Suffolk
*Strout, E. E., 319 Union
†Swain, Jno. A., 67 State
†Thomas, George B. & Son, 58 Atkins av
†Titus, Cutler B., 15 Essex av
*Vroom Bros., 59 Exchange
†Weeks, Joseph W., 20 Thompson ct
†Wells, John H., 54 Oakville

MALDEN—Barker, John E.
*Cast, Alfred
†Chisholm, J. T., 21 Oxford
Connor, Geo.
†Cornwell, W. B., 23 Pine
Freeman, Edw. G.
†Guptill, Robert C.
†Jordan, L. B., Biltmore
Lattie, Albert
†Libby, L. L., 23 Commercial
†McDonald, Robert, 57 Pine
Melanson, F. A.

†Newcomb, Charles W.
*Prehle, W. H.
†Rawley, R. M., 24 Lebanon, M.
†Rich, Jesse S., 348 Ferry
Tarbox & Morgan
Thomas, Edgar H., 24 Park av
Twiss, Richard (Stone), Glendale av, Lin.
Wheelock, Edgar
Whitehorn, T. B.

MANCHESTER—Crafts, Chester L.
Haraden, Albert
Killam, F. A. P. & Son
†Killam, Lewis
*Morley, Flatley & Co.
†Roberts & Hoare
*Sinnicks, George S.
*Stanley, Otis M.
Willmontin, Geo. E.

MANSFIELD—Eddy, David M.
Foster, Geo. L.
Haskell, Chas.

MARBLEHEAD—†Broughton, J. Glover
*Cudihy, John
Doane, Jabish
†Doane, Joshua S.
†Haines, J. Laroy
*McCloskey, Bernard
Parker Construction Co.
†Ramsdell, Arthur S.
†Roscoe & Steele

MARLBORO—†Andrews, Henry K. W. & Son
†Hurley, Thomas P.
†McGee, Charles & Co.
Walker, Herbert S.
*Wall, Thos. H., 136 Mechanic
†Warren, J. E. & Co.

MAYNARD—Kroft, Wilbur C.
Mullin, Jas.

MEDFIELD—Harding, N. F.

MEDFORD—Archibald, Geo. H.
†Bennett, Robert, 11 Bennett
Bishwanger & Co.
Brooks & Co.
Byron, Jno. Henry
†Crockwell Bros., 35 West
Curtis, Chas. E.
Dyer, Michael M.
†Gihson, Richard, 39 Lawrence
Gould, H. E. & Co.
Hopkins, Harvey A.
Lovering, Lewis H., 15 Bowers, W. M.
Mills, Fred W.
†Norton, Jno. F. (Large)
Quigley, Wm. B.
Ricker, Jno. J.
Stewart, J. A. & Son, 27 Marshall
Suderlund, Nils J.
Taylor, Wm. A.
*Vinal, M. C. (Brick), 49 Main
Vincent, Henry E.
Wylie, W. J.
†Yerxa & Yerxa, 4 Main

MELROSE—Allen, Wm. S., 11 Baxter
Ames, Benjamin, 7 Gooch
Carter, Hiram A.
†Dverson, C. H., cor Main & W Linden
Garrett, Josiah J., 214 E Foster
*Hoffman, C. L. & Co., 44 Charles
*Lane Bros., 139 Grove
*Lux, Anthony, Jr., Laurel
Lynde, Wilbur A., 553 Lebanon
†Ripley, C. A. & Co., 390 Main
†Woodland, George W. & Co., cor Main & Franklin

MELROSE HIGHLANDS—Howie, Daniel H., 15 Franklin

MERRIMAC—Chapman, Chas. W.
†Gibbs, M. S.
†Heath, Jno. B.
†Libby, J. C.
Roberts, E. W. & Co.

METHUEN—Cameron, Jno. C.
Huse, A. W.
Hutchins, Chas.
Lyons, Jas. H.
Moss, J. W.
*Nowell, Silas K. & Sons
Richardson, A. J.
Richardson Bros.
Stevens, Jno. H.
Watson, Renne
Wehster, Frank H.
Winn, N. P.

MIDDLEBORO—Phinney, B. Frank
Rounseville, Martin O. (Stone)
Southworth, Warren H.

MILFORD—†Dillon Bros.
†Lent, H. H.
Sprague, Martin K.
Trask, H. E.
Waters & Hines
†Weed Bros.
Whitney, Otis & Son

MILLBURY—Batchelder, Arthur H.
 * Jacques, Peter
 MILTON—Bates, Herbert W.
 Chute & Constable
 Horn, C. H. & H. B.
 Mitchell, Chas., Jr.
 Robson, Allan M. D.
 Tucker, Arthur H.
 MONSON—Graves, J. N.
 NAHANT—†Wilson, Jno. T. & Son
 NANTASKET—Bosworth, Wm. E.
 Foley Bros.
 NANTUCKET—Francis, E. W.
 Lewis, Edw. B.
 Robinson, Charles H.
 NATICK—†Barker, William F.
 Leavitt, Rollins R.
 †Sweetland, Charles
 †Wilson, E. T.
 NEEDHAM—Brion, Jno. N.
 †Locke, Henry S. & Son
 †Parker, A.
 NEW BEDFORD—†Bennett, R. E., 97 Linden
 *Benoit, Louis, 11 Jean
 †Boudreau, Dominique, 125 Whitman
 †Brightman, Chas. O., 72 N. Water
 *Burlington, A. E., 1 Crapo
 †Cadorette, Maxime, 236 Brock av
 †Carson, Silvo
 †Chainay, N., 162 Davis
 †Chase, C. F., 24 Howard av
 †Dalrymple, E. E., 189 N Water
 Davis, C. E., 35 Commercial
 †Davis, Z. B., 3 E Pope
 Demoranville, J. B. & S. A., 101 Shawmut
 Dumaine, Arthur, 7 McGurk
 †Faunce, Chas. L., 13 Pope
 †Fournier, N. J., 531 S 2d
 †Grenier, Francis X., 448 Sawyer
 †Hammond, F. W., 177 N Water
 †Hathaway, D. L. & Son, 27 Centre
 *Hook, G. E., 21 Columbia
 †James, F. E., 108 Cottage
 †Judson Bros., 18 W Willow
 *La France, Vincent, 348 Sawyer
 †Mackay, Malcolm, 117 Bonney
 †MacKenzie, Frank A., 38 Beech
 *Mason, John L. G., 53 Foster
 †Meany, John J., 174 Washington
 †Moore & Mackay, 4 Dartmouth
 *Nelson Bros., 314 S 2d
 †Paine, I. N., 94½ Dartmouth
 †Peirce, Chas. E., 11 Leonard
 †Perry Bros. & Co., 60 Borden
 Pope, Abner P. & Co., 19 Bethel
 †Sherman, R. A. & Son (Large), 7 Leonard
 †Silva, M. P. B. & Son, 137½ Acushnet av
 †Sistare, F. B., 113 Willis
 †Sorelle, Jos., Jr., 149 Phillips av
 Sturtevant, Benj. S., 14 Ward
 †Sullivan, John B. & Son, Cottage & Locust
 †Thompson, C. G., 78 1st
 †Tripp, Henry W., 161 Clinton
 NEWBURYPORT—Adams, Richard G.
 Adams, Rufus
 Bailey, John E.
 Brooks, Arthur J.
 Cashman Bros. Co.
 †Collins, Frederick E.
 †Cotton, Timothy Y.
 *Greely, John A. & Co.
 Hatch Bros.
 †Hoyt, Alvah & Son
 Kelleher, J.
 †Knight, Carl M.
 †Lunt, Charles A.
 *Lunt, Jere. B., 9 Bromfield
 *Meador, Charles H.
 †Morse, William C.
 Noyes, H. J.
 *Young, Eben A.
 NEWTON—Hawkins, Hy. H.
 Kellaway, A. W.
 King, Fred'k W., Bigelow ter
 †MacLean, Roderick
 Nelson, Chas. S.
 †Robblee, D. Harry
 Stuart, T. & Son Co.
 †Wellington, H. F., 244 Church
 NEWTON CENTER—Adey, Benj.
 Davidson, Roscoe L.
 †English, A. J. & Co., Union opp Depot
 Ferguson, Daniel A.
 Fuller, Thos. G.
 †Ireland, Chas. H. & A. F.
 Keith, Geo. A. & Co.
 Kellaway, Jos. N.
 †Kneeland Bros.
 Mahoney, Patrick J.
 *Muldoon, Arthur
 Stevens, Frank W.

NEWTON HIGHLANDS—Cannan, Michael W.
 †Jones, Charles F.
 McMullen, Wm. B.
 McMullin, C. Gordon
 *O'Driscoll, Daniel
 *Sullivan, T. D. & Sons Co. (Stone)
 NEWTON LOWER FALLS—†Baker, P. C.
 Donahue, Daniel
 McDonald, Alex. J.
 Monneghan, Job
 Pendergast, Wm. J.
 Saunders, W. B.
 Wales, Levi
 NEWTON UPPER FALLS—*Chesley, Walter
 (Stone), 984 Chestnut
 *Chesley, Walter (Stone), 984 Chestnut
 Tambeau, Geo. C.
 NEWTONVILLE—Billings, J. D., 200 Walnut
 Burnham, Edw. P.
 Butler, Jno. E.
 Cavanaugh, Michael
 Coombs, Leonard S.
 †Currier, James F.
 O'Sullivan, D. P., Cabot nr Harvard
 †Ross, H. F. Co., Crafts nr Washington
 NORTH ADAMS—†Bresnehan & Phillips, 3
 Chestnut av
 †Butler, Chas. E.
 †Cary & Ware
 †Cole, Jno. M.
 †Cummings, Jno.
 †Elmore, D. W.
 †Harrington, R. N.
 †Hicks, O.
 Kemp, B. S.
 †Osgood, Thos.
 †Pike, C. N.
 *Porter & Hannum
 Sheldon, I. F.
 †Sheehan & Dobson
 *Whitney Bros. (Large), Church
 †Wood, H. C.
 NORTHAMPTON—†Bailey, Myron C.
 *Bailey, W. A., 70 N Elm
 †Bishop, Alex. & Son, 12 Perkins av
 *Kiely & Gleason
 Lacey, W. E., Florence rd, Pine Grove
 *Lynch, Daniel, 155 Crescent
 *Mather, John L. (Brick & Stone), 275 Elm
 †Matthews, A. C. (Large), 24 Centre
 †Mathews, Henry (Large), 29 Highland av
 *Smith, G. W.
 †Sullivan, D. A.
 †Twohlg, James
 *Whalen, James
 †White, C. W.
 *Whiting, Charles W.
 NORTH ANDOVER—Dow, Patrick P.
 Grogan, D. J.
 McAloon, Louis H.
 Trombly, Jos.
 NORTH ATTLEBORO—†Bennett, Henry H.
 MacMillan, Malcom
 †Magnan, N. J.
 *Munroe, Robert G.
 *Robertson, Albert A.
 Sullivan, Jno. F.
 NORWOOD—Appelby, Alden A.
 Bagley, Geo. F.
 Douglass, Francis M.
 Gilling, J. J.
 Howard, Milton M.
 McKinnon, Jno.
 Rafuse, J. Edward
 PALMER—*Alkins, George M. & Co. (Masonry)
 Dillon, M. J.
 Flynt Building & Construction Co.
 O'Connor, James P.
 PEABODY—†Beckett, Benjamin
 †Beckett, Clarence L.
 †Blake, Augustus S.
 *Bresnahan, Michael, 2d, 10 Parsons
 †Callahan, James F.
 Davis & Joy
 *Derby, Charles B.
 †Jeffers, John D.
 †Jones & McCharles
 Kallock & Bommer
 †Knowlton, Isaac P.
 †Lummas, Abram
 McKeen, Benj.
 Newhall, A. L.
 †Pitman, Frank L.
 Porter, E. N. Co.
 *Quint, Nicholas M., 4 State
 †Spaulding, W. & G. E.
 *Trask, J. Arthur, 14 Walnut
 Walton, L. B., 10 Walnut
 PEPPERELL—Lawrence, Americus L.
 Miller, Chas. H.
 PITTSFIELD—†Atwood, Luther L.
 *Beckwith & Pike
 *Dodge, James C.

†Drew, G. W., 56 Newell
 †Faulkner, G. W.
 *Foote & Jones, 260 Columbus av
 Goodrich, C. J., Stearnsville rd
 *Hall, J. C. & Son (Stone & Brick)
 †Hume, Edgar B.
 †Jordan, Freeman, West opp Onota Farm
 †La Brode & Northup
 †Lambert, Nicholas T., 259 Lenox av
 †Leavy, John
 *Markham, C. M., 172 1st
 †Michael, M. E., Commonwealth av
 †Miller, S. J. & Bro., 28 W Housatonic
 †Riley, Thomas P.
 †Roscoe & Stone
 †Russell, Geo. H. & Son
 †Strong, J. F., 133 Elm
 PLYMOUTH—Barlow, Geo. F.
 †Barnes, Joseph
 Bartlett, Ephraim D.
 Bradford, Geo. W.
 Burgess, P. S.
 Howland, Carroll D.
 Samson, E. L.
 Shaw, W. F.
 Standish, Job C.
 PROVINCETOWN—Callahan, Jas. E.
 Days, F. A. & Sons
 QUINCY—Callahan, Jos. J.
 Cashman, Jno.
 Chislom, Jno. W.
 Crocker, H. G.
 Dimmock & Patten
 Fuller, Polcy & Co.
 Grant, F. W.
 †Johnson, Julius
 Langley, G. O., 61 Washington
 †Lofgren, Wm. R.
 McCauley, W. F.
 MacFarland, Chas. A.
 Nelson & Erickson
 Oxner, Jas. B.
 Parker, Warren S.
 Pickard, Arthur
 Poland, Jno. E.
 †Pratt, J. W.
 Sears, Edward H.
 Stedman, W. F.
 Taylor, Waldo H.
 Walters Bros.
 †Williams, Peter J., 5 Independence av
 Youngquist, Andrew G.
 RANDOLPH—Alden, Morrison M.
 †Croak, W. A.
 *McCarthy, Jeremiah
 Pulson, Wm.
 READING—Campagna, Eugene W.
 Pulson, Wm. L.
 Taylor, Geo. F.
 REVERE—†Bates, Chas. H.
 Goodwin, Burton
 †Graham, W. H.
 ROCKLAND—Beales, Nettle
 Keene, N. A.
 Loring, Job O.
 McGrath, M.
 ROCKPORT—†Bailey & Hosmer
 Choate, J. N.
 Clark, Albert F.
 *Conley & Grimes
 Fears, Isaac P. Sons
 Hooper, Jno. & Son
 Saunders, Chas.
 *Smith & Wilson
 Stillman, Robert P.
 *Witham, Elbridge, Jr.
 ROXBURY—(See Boston)
 SALEM—Abbott & Martin
 †Audet, Alfred
 Balcourt, J. W.
 Bell, John H.
 Blake, Augustus S.
 *Bowditch, Thomas
 Brown, Jos.
 Caro, Jean B.
 †Chalifour, E. C. & Co.
 †Chalifour, James
 Claveau, Thos.
 *Cronan & Buckley
 †Fanning, James
 *Fitzgerald, Wm. & Sons
 *Flynn, John J. & Son
 *Foote, Miner A. S., 1 English
 Hamilton, David W.
 Handy, K. Ward
 †Handy, Thos. W.
 Harford, Ezra
 Harris, Oscar M.
 Hayes, Morris
 Higgins, A. H.
 Hurd, Wm. H.
 †Joly, Alphonse M.

†Joyce, David
 *King, Joseph
 L'Itallan, Jos.
 McIntyre, Edw. F.
 *Mack, J. J. & T. F.
 Moulton, J. C.
 †Murphy, James J.
 †Norwood & Elwell
 O'Brine, Wm. E.
 *Parsons, Jos. M.
 Patterson, William H.
 *Peterson, Jos. N. & V. S., 62 North
 †Pittman & Brown Co. (Large), 255 Derby
 †Reed & Dawson
 †Roope & Morrison
 Rayno, Wm.
 †Smith, Wm. M.
 †Sullivan, Patrick J.
 †Upton, George L.
 *Wheeler, V. Frank
 †Wilkinson, F. & Co.

SAUGUS—Johnston, Richard
 Nowell, Horace E., E S
 Paul, J. Wesley
 Raddln, Geo. M.
 Renwick, B. M.
 Snow, Jos. I.
 Taylor, Jno.
 Willis, Daniel B.

SHARON—Coggins, Calvin G.
 Snow, Wm. R.
 Tamblyn, Henry A.
 Tucker, George H.

SOMERVILLE—*Abbott, Charles O., 7 Dana

*Andrews, J. M. & Son, 172 B'way
 †Belding Bros., 62 Hudson
 Burke, Bartholomew, 322 Lowell
 Burke, Patrick, 327 Lowell
 †Calkin, W. W., 335 Medford
 †Cliff, Z. E., 29 Powder House ter
 *Davis, Geo. M. & Son, 20 Arthur
 Dunn & Mackay, 7 Lowden av
 Elkins, J. F., 142 Medford
 Ernest, E., 14 Carlton
 Gill, Jno. F., 72 Bonair
 Gill, T. H., 72 Bonair
 Gray, L. H., 25 Jaques
 Gunter, G. W., 10 Skilton av
 *Horne, Emanuel, 59 Washington
 Lacey, Patrick, 63 Cherry
 Lay, C. E., 147 Boston av
 Lewis, A. R., 48 Kidder av, W. S.
 †McGray, H. D., 95 College av
 †Nichols, A. G., 61 Holland
 †Penny, L. A., 177 Pearl
 Pillsbury, A. M., 55 Holland
 †Pride, A. M., 150 Hudson
 †Randlett, Irving N., 11 Jay, W. S.
 †Richardson, R. M., 52 Broadway
 †Robbins, Daniel E., 10 Cameron av, W. S.
 †Robinson, Geo. D. B., Stone av
 Stackpole, J. & J. F., 242 B'way
 Telfer, Harry W., 12 Hawthorne
 †Thorpe, T. H., 104 Perkins
 *Walsh Bros. (Large), 37 Oak
 †Waugh, Wm. L., 368 Som. av
 †Welch, John, 32 Prescott
 †Williams, C. H., 59 Union sq
 †Willoughby, Geo. T., 111 Central
 Wilson, Geo. F., 44 Preston rd
 †Woods, T. Sylvester, 65 Joy
 Worcester, J. B., 24 Brastow av

SOUTH BRAINTREE—Borden, H. W.
 Robinson, Jno. H. G.

SOUTHBIDGE—Aldrich, O. J.
 Boyer, Alexander
 Chamberlain, Dwight
 Claffin, Willard J.
 Langevin, Mathias
 Smith, Jno. M.

SOUTH FRAMINGHAM—Prindeville, Jno. J.
 Saucier, Augustus

SOUTH HADLEY FALLS—†Judd, B., Bardwell
 nr Elm

SOUTH WEYMOUTH—Chishlom, T. M.

SPENCER—†Horr, Merritt N.

SPRINGFIELD—†Angers, J. A. & Bro., 327
 Main

†Ball, A. A. & S. T. Co., 146½ State
 Banning, William S., 50 Dartmouth
 Beaudoin, Philais, 52 Washburn
 *Behan, Jas. F., 14 Grosvenor
 *Blanchard, Joseph, 346 N Main
 *Blodgett, E. Fred, 402 Central
 Brady, William H., 85 Acushnet av
 *Brennan, Michael J., 40 Vinton
 *Burke, Peter, 16 Osgood
 †Burnham, George M., 53 Bridge
 Chapman, Almon G., 123 Liberty
 *Curtis, D. J., 77 Everett
 *Davis, R. E., & A. M., 181 Lebanon
 Dean, C. M., 310 Main

†De Montigny, Napoleon, 36 Berkshre Bey
 †Eaton, L. O. (Large), 188 Thompson
 *Falvey, William H., 346 Liberty
 Gagner Bros., 43 Queen
 †Gilbert, Thomas B. (Large), 46 Dwght
 Gour, Aleide J., Mooreland av
 †Graves, Arthur W., 21 Sorrento av
 *Gregg, Wm. T., 162 Eastern av
 Griffin, Michael J., 263 Eastern av
 Harris, Joseph H., 220 Pine
 †Hayden, Joseph W., 888 State
 *Hennessey, J. J., 256 King
 Hoag, Zelora E., 25 Hawley
 Johnson, L. A., Agawam
 Kane, John J., 16 Lenox
 *Kelley, J. I. (Brick), 422 Walnut
 †Kelso, E. D., 42 King
 †La France & La Riviere (Large), 166 Main,
 I. O.
 *Ley, Fred T. & Co., 307 Main
 Lougee, John F., 315 King
 †Lyman, Geo. W., 92 Buckingham
 *McKenzie, Wm. D. (Brick & Stone), 23
 Yale
 *Maloney, Michael, 78 Taylor
 Manser, E. E., 285 Allen
 Meacham, Edward A., 121 Cedar
 Morey, Frank P., 88 Quincey
 *Muir, James (Cut Stone), Bay st av
 †Newton, W. A. & Co., 337 Worthington
 *Owens, Edmund M., 37 Armory
 †Perrault, Alex., 18 Morris
 Prevost, John W., 963 Summer av
 †Robbins, Geo. W. & Co., 229 Wilbraham rd
 Robbins, John H., 57 Pomona av
 Roy, J. G. & Co., 907 Armory
 †Scott, John L., 282 White
 †Shattuck, E. W. (Large), 98 Taylor
 *Shea, Daniel C. (Large), 78 Alden
 †Shea, Jerry & Son (Large), 16 Columbia ter
 †Sherman, P. A., 109 Taylor
 Short, Jonathan, 62 Harriet
 †Walls, J. F. & Son, 89 Morris
 *Walters, Wm. H., 53 Margaret
 †Warner, Dwight H., 279 Orange
 †Warner, Fred G.
 †Wells & White, 33 East Court
 Wilson, C. P.
 †Wood, L. S., Willow & Stockbridge

STOCKBRIDGE—Lawless, T. J.

STONEHAM—Gove, Linwood L.

†Swan, John B.

†Webber, Parker G.

STOUGHTON—Curtis, Geo. P.

Jones, Frank M.

Witt, H. C.

SWAMPSCOTT—Butcher, J. Watson

Delano, Gilbert

Ellis, Albert R.

Gardner, Peleg.

Hardy, Harry E.

Rowell, Fred E.

TAUNTON—Bassett, E. J. & Son

Bassett, Eugene P., Merchants' la

Bassett, Jas. P.

Bassett, Lester E.

Bassett, Lewis C.

*Briggs, Abrah T. (Stone), 86 Winthrop

Browne, Jno. C.

Chase, Wm. H., 15 Trescott

Crane, John A., 16 2d

Crapo, Henry G., Tremont c Fremont

Ellis, N. E.

Fletcher, W. W.

†Freeman, Wayne M.

Hardy, Jno. H., 3 Maple av

*Harmon & Hopkins, 28 Main (Brick & Stone)

Howes, H. G., Fairview av

*Judge, James D., 13 Grove

Leary, Cornelius W.

Mann, Wm. H.

Manter, Chas. L., 14 Trescott

Nichols, Magee Construction Co.

*O'Connell, D. J., 172 Middleboro av

Pierce, Samuel P.

Sherman, Z.

†Sullivan, D. J., S3 B'way

Walker, Jno. C.

Wilbur, Jas. K.

†Williams, Frank D., 229 High

†Witherill, L. M., 29 Court

TURNERS FALLS—Royer, Jno. B.

Thomas Bros

UXBRIDGE—Henry, Albert F.

Lackey, Eugene

WAKEFIELD—Bryer, Jno. H.

Burnham, Wendell P.

Butler, Aaron A.

Feindel, H. A. & Co.

†Felnde & Harrison

Killorin Cont. Co.

†Prescott, Wm. A., 372 Main

†Wanamaker & Webber

WALTHAM—Archambeault, Jos. J.

Brouillette, Jos. P.

Bull, Edw. H.

Burke, Jas. E.

Cormey, Jno. E.

†Dawson, George, Music Hall av

Geoffrion, Louis

†Glancy, R. E., 53 Cushing

†Gregg, Herbert M., 67 Lawrence

†Howe, W. C., 40 Chestnut

Lyons, Wm. E.

McCusker, F. W.

McCusker, Jno. H.

Moran, Jno. E.

O'Malley, P. J., Massasoit

Prebel, Chas. A.

†Rose, Norman J., 188 Hammond

Smith, Edw. B.

WARE—Buckley, James A.

†Cummings, Herbert P. & Co. (Large)

WARREN—Nevins, Thos.

WATERTOWN—Bowlby, L. S.

Flannery, Owen

Iliffe, Wm., Malcndy av

Moody, Geo. H.

†Murdough, Albert B., Russell av

Whiting, Moses, Royal

WEBSTER—Cazeault, J. T. & Bro.

Goddard, Joel & Co.

Murdock, Jno.

Plasse, Paul

Towne, W. E.

WELLESLEY—Hapgood, Frost & Co.

†McCabe, John W.

Taylor, Chas. N.

WEST ACTON—Harris, Frank E.

Hoar, John S.

WESTBORO—†De Armond, F. G.

Penniman, W. C.

WEST CHELMSFORD—FLETCHER, H. E.

& Co. (Stone) (See adv. index, end of

Fletcher & Lahey (Stone) book)

WESTFIELD—†Ferry & Butler

Gardner Bros.

†Green, T. J.

†Humphreville, E. M.

*Little, Thos.

*Mahoney, P. J.

†Wood, H. C. (Large)

WESTFORD—Cummings, Chas. M.

Harrington, P. Henry

Sutherland, Alonzo H.

WEST MEDFORD—Clark, J. M. & Co.

Cunningham, Nason B.

Ham, Frank W.

†Lovering, Lewis H.

Norton, John H.

WEST NEWTON—*Cotter, Jeremiah & Sons

*Gallagher, James R.

*Gannon Bros., 125 River

Hargedon, Jno., Derby nr City llne

†Hunt, Henry H.

†Jepson, Geo.

Keller, Jno. H. & Wm.

McDoddald, M. J.

†McKay, Donald

Mague, W. H. Co.

†Tange, Hans L.

WEST SPRINGFIELD—†McCarthy, Jas. F.,

*Provost, S., 342 Main, Merrick 359 Main

WEYMOUTH—†Hale, H. H.

Whitmarsh, Frank O.

WHITINSVILLE—Burgess, J. E.

Van Steenberg, J. B.

WHITMAN—Black, Paul

Faunce, A. L. & Son

Jackson, A. W.

Peterson, Andrew H.

Whitmarsh, A. C.

WILLIAMSTOWN—Daniels, Albert J.

WILLIMANSETT—Carreau, Louis & Son

Rivers & Young

WINCHENDON—Cheney, George W.

Hildreth, W. P.

WINCHESTER—Blaikee, Dexter B., 72 Everett

Carroll, Hy. J.

Enman, J. L. M., Kendall nr Mt. Vernon

Hatch, Wm. S.

McEwen, Jas. H.

Ogden, Geo. C.

Ritcey, Daniel H.

WINTHROP—Belcher, M. Henry

Churchill, Gilbert F.

†Griffin, Sidney H.

Johnstone, J. B.

Mahaney, T. J.

†Newcomb, Freeman E.

*Roberts, H.

†Steves, Zebulon M.

Woolcott, Frederick W. F.

WOBURN—Anderson, Severine

Brown, Geo. E. Building Co.

*Carroll, M. W., 76 Main

Ellis & Bushwill Co.

*Ellis, Jacob M.

†Fowle, George E., 32 Prospect

Greydon, Fraw W., 7 Lowell

Herrick, J. E., Jr.

Ring, Timothy J., 18 Stoddard

Shay, Wilden B.

WORCESTER—†Barnes, W. J., Foster c Bridge

†Benson, O. T., 32 Clifton

†Bishop, J. W. Co. (Large), 107 Foster

†Bishop, W. T. & Co., 82 Foster

Buckley, J. M. & C. J., 67 Harrison

†Booth, A. N., 18 Schussler rd

†Central Building Co., 58 Front

Coderre, Hower, 38 Coburn av

†Colburn, C. A., 660 Pleasant

†Cutting, Geo. H. & Co. (Large), 11 Foster

*Faucher Bros., 16 Cutler

Foley, Thomas D. & Co., 26 Perry av

*Girouard, J. E., 1 Sylvan

Higgins, Jeremiah J., 518 Main

Holden, Jno., 41 Exchange

†Howard, S. I., 3 Harvard

*Kelley, Chas. A., 311 Main

Kendall & Bennett, 22 Hollywood

Lynch Bros., 268 Shrewsbury

†McDermott Bros., 18 Cedar

Mark, F. W., 4 Walnut

†Melican, Thos. F., 3 Chapin

†Mellen, Henry & Son, 41 Queen

*Miles, James & Son, 54 Beeching

*Nocross Bros. Co. (Large), 10 E Worcester

†Peters, Chas. L., 38 Newbury

†Petterson, L. M., 21 Edward

*Pickford, Jno. H. & Son, 439 Park av

Power, Jno. J., 1 Granite

†Rankin & Woodside, 38 Burncoat

Rice, G. H. & L. W., 4 Lowell

†Robbins, A. P., 452 Main

†Roberts, Joseph J., 133 Grafton

†Scoville & Wheeler, 518 Main

†Vaughan, C. A., 28 William

*Waite & Wetherby, 20 Abbott

†Ward, Edward D., 82 Foster

†Whitehead, Ernest, 21 Foster

MICHIGAN.

ADRIAN—Gray, B. H.

Hood, R. A.

Hudson, J. L.

Knowles, L. F.

McKenzie, S. D.

Richardson, Jonathan

ALLEGAN—*Allen, Emerson

ALPENA—†Fox, Owen

†Gebhardt, Morrow & Co. (also Planing Mill)

ANN ARBOR—†Bliton, Henry

Copeland, Wm.

*Graft, R. J.

Henning, H. G.

†Hochrein & Braun

Howe, W. E.

Jacobus, George

Jacobus, W. C.

James, W. P.

Kitson, A. J.

*Kock Bros. (General)

*Lucas, L. H. J.

Marquardt, Herman

Pipp, H. G.

†Sauer, C. A. & Co.

Snyder, C. J.

Weinberg, F. C.

*Willcutt, W. J.

Wooley, E. T. H.

BATTLE CREEK—Ashley, Marcus M., Grand

†Blanck, Aaron E., 37 Madison, S. boul

†Brooks, W. L., 37 Guest

†Carpenter, Alfred, 79 Graves av, W.

Chase, Geo. W., 612 Marshall

†Doland, Jno. L., 21 Goguac, W.

†Drake, F. A., 153 Grove

†Flynn, John W., 314 Garfield av

Gibson, C. E., 92 Meacham av

†Hall, Chas. T., 64 Beach

†Hall, Hy. C., 70 Beach

Hayton, Henry, 345 Van Buren, W.

Hunt, Thomas C., 15 Graves av, W.

†Lewis, M. M. & Sons (Large)

Linton, Edwin E., 119 Henry

*McHugh, Hugh J.

†McMullen, Wm. J., 136 North av

†Miller, Silas A.

†Oxley, Albert W.

Ramsey, Wm. T., 39 Kendall, N.

Seeley, R. E., 141 Post av

†Sleeper, W. H., 42 Michigan av, S.

†Sturtevant, Geo., 34 Rittenhouse av, W.

Sutton, Eugene D., 179 Cliff

*Tait, Jno. W.

BAY CITY—†Donohue & Wolfe

Fish, W. T.

Fortin, David

†Heumann, Simon & Son, 422 N Water

†Heumann & Trump

†Lamont, Mathew (Large)

†Sanback, Swan A.

†Smith Bros.

*Thompson, John W., 1st c Sherman

BELDING—Bliss, Wm.

*Chase, Ernest S.

Cole, A. L.

Darling, Charles

Foss, Emanuel

Kimberley, E. W.

*Moore, W. J.

Nichols, W. A.

*Treat, J. J.

BENTON HARBOR—†Richards, W. H.

BIG RAPIDS—Jones & Green

CADILLAC—Dutton, C. W.

CALUMET—Milford, W. F.

Roehm, P. B.

CHEBOYGAN—†Cheboygan Mfg. Co. (Large)

†Wheelock, Fred'k

DELRAY—Burbank, C. H.

*Burke, J. C.

*Edge, George

Fraser, W. J.

†Harrison & Son

Herrmann, John

†Kinnell, Jos. (Large)

†Schuknecht, Frederick

*Spicer, David

DETROIT—†Albrecht, Albert A. (Large), 1212 Penobscot bldg

Apel, Henry A., 479 Grand River av

Armstrong, Underwood & Co., 1379 St. Antoine

Ballman, W. E., 12 Wilcox

Barron, Felix, 334 Holcomb

Becker, J. P., Brush & Candler

Belanger, A. C., 68, 21st

Blunt & Dederick, 66 Congress, W

*Carew & Chase, Majestic bldg

†Carter, Chas. C. 112 Madison

*Chapotón, Alex, Jr. (Large), 3 Peninsular Bank bldg

Chevillot, Louis F., 374 Woodward av

Colwell, W. J., 70 Trumbull

Cross, W. H., 411 Plymouth av

Cutting, G. H. & Co., 11 Foster

Damm & Hansen, 14 Barclay pl

Decker, E. P., Russell House

Deitz & Ward, 50 W Elizabeth

*Fisher, G. W., 55 Selden av

*Gearing Bros. Co., 1610 Jefferson

George, H. & Son, 531 Beaubien

George & Belford, Penobscot bldg

*Goddard, F. H., 1308 Penobscot bldg

Golden, Geo. W., 15 Gilman

Haberkorn, J. H. A., 384 14th av

Halladen, Paul O., Guarantee Loan bldg

Hanley, Jno., McGraw bldg

Harcus & Lange, 770 Russell

Helson, Richard, 21 Gilman

Hill, Geo., 149 Greenwood

†Kellar, Peter N. & Son, 108 Grummond av

Kersey, Wm. J., 93 John pl

†Lardie, Peterson & Grabert, 142 Park

*Le May & Whelan, 406 Tolsma bldg

Love & Talbot, 1232 McKinley

†McCausland, W. H. & Son, 116 Larned, W

†McEnhill Bros., 261 15th

McIntyre & McIntyre, 703 Sheridan

McKay, Boyd, Hastings & M. C. R. R.

Malow Bros., 1104 Mt. Elliot

Marenette, J. E. & Co., 123 Larned, W

Mayhew, J. T., 317 Grand River

†Maynard, Albert H., 9 Elm

Mitchell, Randell, 1000 Vermont

†Moynes, G. F. & Co., 137 Brady

†Moynes, I. E. & Co., 138 Cass

Nicholson Bros., 456 Brooklyn

†O'Connell, H. P., 12 Barclay pl

Pocack, W. H. & W. S., Home Bank bldg

*Putnam & Moore, 733 Wabash av

Reid, E. W. & Co., Peninsular Bank bldg

Riley, F. M., 335 Grand River av

St. Amour, F. L., Hendrie c Woodward

*Scholl, Martin, Jr., 459 Michigan av

Shattock & Wigle, 8 Forsythe

†Shumaker, Wm. H., 124 Calumet av

Stanfield, Robt., 26 Park pl, E

Teakle, Robert T., 660 Grand River

†Tonn & Schreiber, 127½ Grandy av

*Traves, W. H. (Large), City Hall

Vaughn & Dumont, Union Trust bldg

†Vinton Co. (Large), 126 Woodbridge, E.

†Wood & Mapes, 614 8th

DOWAGIAC—*Doolittle, Cyrus

Dool, Wm.

Hartsell, Frank

†Judd, Mark & Son

Peck, O. P.

*Rummel, Daniel

Wells, Willard

DURAND—Crofoot, F. T.

Lawrence, F. E.

Potter, F. H.

EATON RAPIDS—Haner, Nelson

*Hicks, Liberty

*Rolph, J. W.

ESCANABA—Lawson, J. W.

†Williams, Nicholas

FLINT—Matthewson, Fred. C.

GRAND RAPIDS—†Abell, E. J., 79 Cass av

†Alger, F. A., 507 S Lafayette

*Austin & Pelton, Gardner av nr Burton av

†Barager, T. A., 1320 5th av

†Barth, Jacob & Sons, 407 2d

†Beigle & Swain, 644 S Lafayette

†Buck, G. W., 1044 5th av

†Burton, W. T., 270 9th av

Camp, C. F., 1057 Union boul

†Campbell, P. C. Co., Houseman bldg

†Creager, H. A., 1269 Dickinson av

Curtis, E. S., 64 Dunham

†Davidson, G. H., 228 Houseman bldg

De Vries, Jacobus, 538 N Ottawa

Dipple, C. W., 336 Thomas

†Fisher, J. H., 204 N Ottawa

†Fletcher, G. E., 42 Packard

†Gentz Bros., 37 Springfield av

†Green, M. D., 4 Fair

†Gulliford & Richens, Houseman bldg

†Hammond, A. C., 193 Jones

†Hare, Emerson, 240 Sigsbee

†Hauser, Owen & Ames, 102 N Ottawa

†Hawley, J. A., 34 Brainard

Hendricks, John, 580 N Prospect

†Hoertz, Chas & Son, 18 Porter blk

†Jungbacker, Jno., 70 W B'way

†Kettle & Ratering, 476 Lincoln

†M'Nabb, John Co., 145 N Ottawa

†Martin, Jonathan & Sons, 24 Kellogg

Morgan, Albert W., 204 Dale av

†Morgan, M. D., 82 Watkins av

Oltman, L. P., 592 S East

Oom, Adrian, 133 Cass av

†Otis, C. J., 32 Holbrook

Parmelee, C. F., 72 Perry

†Petersen, Peter, 285 Baxter

†Rosema, Nanco, 37 N Ionia

†Smith, Chas. L., 555 N Front

†Snyder & Spears, 206 Central av

†Stone, A. M., 27 Winsor pl

†Tibbets, S. B., 335 Central av

†Vanderbee, Cornelius, 160 Wealthy av

Vander Meer, Geo., 614 E Fulton

†Van de Visse Bros., 93 Hovey

†Van Ham, Harm & Sons, 417 Grandville av

Verheek, G. A., 269 Turner

*Weertman, Rudolph, 449 Caulfield av

†Westra, N. J., The Gilbert

Whitmer, H. K., 155 Henry

†Wolcott, A. J., 266 Harlan

GREENVILLE—*Bingham, James

Chandler, George

Fries, Clarence

Gleason, W. D.

*Springstead, Wm.

Taylor, Jas.

Traver, W. M.

*Vandever, Rush

*Willey, Paul

HOLLAND—Takken, Evart & Co.

HOUGHTON—†Northern Construction Co.

Superior Construction Co.

IONIA—†Huntley & Co.

IRON MOUNTAIN—†Parmelee, N. B. & Son

ISPHEMING—Heayn, John

Hermanson, Charles

JACKSON—†Alexander, W. A., 823 Douglas

†Bradt & Reuter, Michigan av

†Brady, George, 420 N Jackson

†City Lumber Co., 429 N Jackson

*Conway, Henry D. (Stone), 214 N West av

†Doig, Daniel J. (Large)

†Eberwein & Melchert, 115 E Cortland

Frazier, Chas. D., 1813 E Main

Hastings, Wm. J., 224 Maple av

*Howard, C. A., 15 Dwight bldg

†Knickerbocker, Geo. & Co., 229 E Wash'n

Laycock, E. D., 727 Greenwood av

Luttenton, C. W., 116 N Gorham

*Miles, Lester J., 142 Adams

*Miller, Charles W., 909 E Main

†Moloney, Thomas, Cortland & Michigan av

Shea, Daniel, 743 Kennedy
 *Tobin, E. J. & Co., 145 W Pearl
 Turner, Chas. A., 326 Backus
 Van Camp, George E., 1417 Cooper
KALAMAZOO—*Atkins, Wm. E., 1317 S West
 †Bickley, G. C., 833 W Main
 †Case, Wm., 1409 Alamo av
 Caster, Jno. A., 1203 N Edwards
 †Cheney, J. E., Pratt blk
 †Crandall, C. W., 714 Minor av
 †Damerelle, W. J., 222 N West
 *De Korn, Richard, 1348 S Burdick
 *Farnsworth, E. M., 1027 1st
 †Flaitz, Frank, 613 Summer
 †Gilman, A. G., 1017 Davis
 †Hall, S. B., 1224 Clinton av
 †Herder, J. J., 426 W Frank
 *Kastead, Edward, 825 Walbridge
 Lum, H. V., 630 Edwin av
 †Oliver, A. S., 116 Catharine
 *Phillips, L. O., 140 Reed
 †Putnam, L. D., 912 S West
 *Rickman's, Geo. Sons Co., 226 Pratt bldg
 †Robbins, Alex., 416 Parsons
 †Schreffler, W. E., 115 Phelps av
 †Schrier, Adrian, 932 Cottage av
 †Shoots, L. J., Browne bldg
 †Strong, Eli, 613 McCourtie
 †Sweetland, B. E., 215 N Church
 Tanis & Son, 718 De Witt
 Walton, David, Sr., 810 Wheaton av
 †Welsh, R. J., 1019 Davis
LANSING—Allen, J. W., 913 Michigan av, W
 †Blasius, J. W., 109 Larch, S
 Britten, W. T., 815 Ottawa, W
 *Chittenden, Chas. M., 1114 Michigan av, E
 Crandall, C. O., 408 Washington av, S
 †Daman, C. C., 910 Walcutt, N
 *Fitzpatrick & Preston, 913 St. Joseph, W
 †Hagenmeier, Geo. J., 660 Shiawassee
 †Kohler, Geo. J., 914 Walnut, N
 Park, J. D., 1108 Washington av, N
 Sullivan, Jno. B., 736 Shiawassee, E
LAPEER—Smith, C. W.
LAURIUM—Anderson, Chas. A.
 †Bray, Nichols S. (Large)
LUDINGTON—*Boerner, Chas. (Large)
 Wedmark, H. P. & Son
MANISTEE—Newcombe, R. J. B.
MARINE CITY—Rivard, Fred. L.
 Zimmerman, C. F.
MARSHALL—Hart, W. C. & Son
MENOMONEE—Brown, W. M.
 Farnlof, Andrew
 *Floodstrand, H. A.
 Girlich, Adolph
 *Golneke, Frank
 Husemeier, Ernest H.
 †McGillis, Angus F.
 *Meilberg, Gustav
 *Nordquist, Alfred
 Place, E. C.
 †Spaulding, E. P.
 Whitehorn, Abram
MOUNT CLEMENS—Hubarth, Schott & Co.
MUSKEGON—Bennett, Schnorbach & Co.
 Cooper, F. C.
 Decker, Jefferson
 *Mackintosh, Alexander
 *Schuchas, Jacob
 Walcott, Henry
NILES—*Smith, W. H.
PETOSKEY—Kopke Bros.
 McDonald, Dudley
 Scibert, P. L.
PONTIAC—Slater Construction Co.
 Stearns Bros.
 *Steven, Howard
PORT HURON—†Cady, L. E.
 Hodder, Chas.
 †Jenks-Wade Co.
 †Jones, Wm. E.
 †McMonagle, Timothy
 †O'Sullivan, James (Large)
 †Pennebaker, Joshua J.
 Schultz & Scott
 *Scott, Wm. J.
 †Smith, Andrew J. & Son
 †Wilson, W. T.
SAGINAW—*Arndt, F. A., 531 Division
 Bamford, Jno. F., 546 S 5th
 †Boehner, M., 913 N Porter
 *Bryce, G. C., 1204 Johnson
 †Burdick, C. P., 317 S Mason
 *Dittmar, L. C., 319 S Granger
 *Fitzgerald, C. R., 441 Cornelia
 Ford, G. C., 339 S 7th
 *Forster, R. R., 1220 Hancock
 Fruechtel Construction Co., 412 N Oakley
 †Gelinas, A. & Son, 114 S Washington av
 Harrison, Arthur, 1218 Holland
 Hausler, Henry, 2680 State

†Hendrick, Roger C., 736 Owen
 Hendricks, P. H., 217 Howard
 Jackson, Josephine, 1612 S Jefferson
 *Kerns, James & Son, 207 S 3d av
 *Kerns, J. H., 432 S 4th av
 *Kerns, Thomas A., 235 N 6th
 *Kerns, W. G., 212 Annesley av
 *Kerns, W. H., 616 Owen
 Koenig, Adam, 323 S 10th
 Leidlein, J. J., 912 Walnut
 Lincoln, A. H., 725 S Washington av
 McElgunn, Jos., 408 Fitzhugh
 Maturin, Andrew, 2341 Michigan av
 Metcalf, E. B., 626 S 5th
 *Mueller, W. C. (Brick), 116 N 6th
 †Mutscheller, Michael, 136 Mott, E S
 †Nickodemus, J. P., 1300 Jones av
 †Parth, J. C., 317 N Weadock av
 Rock, John, 2227 S Michigan av
 Ruff, Jno. M., 410 S 4th av
 Runchey, J. G., 1120 McCookry
 St. John, E. F., 821 Johnson
 *Schaitberger, G. L., 1608 Tuscola
 Seiferlein, C. L., 900 Throop
 Shimmmons, C. H., 1435 Gratiot av
 Sing, S. G., 511 Howard
 Stark, G. W., 711 Tuscola
 Stegmeyer, Jos., 135 Hoyt av
 Stevens, F. & R., 919 N Bond
 †Taub, F. & Son, 515 N Hamilton
 *Terry, J. B., 1235 S Warren av
 *Thurman, P. L., 222 N 5th
 Tucker, C. H., 559 Sheridan av
 *Wynes, J. G., 231 Gage

ST. CLAIR—Fischer, Herman & Son
ST. JOHNS—†Pulfrey & Louch
ST. JOSEPH—Stock, M. W.
SAULT SAINT MARIE—Belleau, Wm.
 *Bye, T. J.
 Comb, David
 Eldridge, Henry
 Follis, I. J.
 †Hunt, Marshall
 †Irwin, J. B.
 Le Blanc, L. J.
 †Lipsett & Sinclair (Large)
 McEvoy, Barth.
 Rich, R. J.
 †Shirley, M. J.
 †Sweatt, J. B. (Planing Mill)

THREE RIVERS—†Maxon, M. L. (Large)
WYANDOTTE—Belleville, Wm.

MINNESOTA.

ALBERT LEA—†Paine, H. A.
 Tapager & Hanson
ALEXANDRIA—Aiton, Thos. R.
ANOKA—Case Bros.
 Gumbrell, Alfred
AUSTIN—Martinsen, T.
 Waterman, H.
BRAINERD—Everett, Alonzo
 Pearce, J. K.
 Rowley, C. B.
CLOQUET—*Connors, Levi
 Durkee, E. E.
CROOKSTON—Florin, John
 Lundahl, A. L.
DETROIT CITY—Detroit Building & Mfg. Co.
DULUTH—†Anderson & Gow, 123 3d av, W
 †Bartlett, Harmony, 101 1st av, E
 †Bergquist Bros., 2032 London rd
 †Blowers, E. F., 21 Lake av, W
 †Brown, H. C., 5627 Grand av, W
 †Carlson, P. M., 1608 W Michigan
 *Carlson & Mettner (Brick), 1913 E 3d
 †Clarey, J. A., 1322 Jefferson
 †Dahlman & McDermid, 5804 London rd
 †Duluth Electrical & Construction Co., 210 W 1st
 †Evans, C. E., 419 Lonsdale bldg
 †Falstad, P. A., 217 W 6th
 †Fawcett, Hugh, Lyceum bldg
 †Grandy, Jno., Burrows bldg
 †Hansen, Richard, 618 N 25th av, W
 †Hilliard, J. W., 9 Winthrop bldg
 †Jackson, Edw., Burroughs bldg
 *Johnson, F. E. (Large), Manhattan bldg
 †Johnson, F. L., 115 E 7th
 †Johnson, John A., 717 E 2d
 Johnson & Johnson, 5701 Raleigh
 †Lounsberry, G. H., 332 W Superior
 †Maxted, T. A., 1818 Dingwall
 †Molitor, J. D. & Bro., 632 W Superior
 †Mueller, N., 813 E 5th
 †Nolan, John, 2513 W 2d
 †Nord & Jacobson, 1909 W 2d
 †Olson, O. W., 424 9th av, E
 Olson, Swan J., 2021 W 6th
 †Paulson, Erick, 5722 Highland
 †Pearson, Harry, 305 Torrey bldg
 †Pearson, Olaf, 207 W 1st

†Quigley, J. R., Manhattan bldg
 Ramsted & Todd, 11 N 54th av, W
 Robert, J. A., Burroughs bldg
 †Robitaille, J. A., 713 W Michigan
 †Schleunes, J. F., Manhattan bldg
 †Schuler, Jacob, 1012 E 7th
 †Smith & Vokes, Exchange bldg
 †Thorburn, Thos., Palladio bldg
 *Waterworth & Fee, Torrey bldg
 †Zauft, Emil J., 5519 Grand av, W
FAIRMONT—Patsche, Chas. E.
 Petrie, G. W.
 Popple, C.
FARIBAULT—Erb, Kingsley & Morris
 †Hatch, H. H.
 Keuhl, A. F.
 O'Neill, Jno.
 *O'Neill, William & Son
 †Peltier, C. H.
 U. S. Construction Co.
FERGUS FALLS—†Berge & Hodson
 †Lauritzen Bros.
HASTINGS—Stewart, W. W.
LITCHFIELD—Schelde, Jeff.
LITTLE FALLS—Harrison & Peterson
 Molde, Andrew
 Mucusker & Harrison
 †Tulplett, Lewis
MANKATO—Bishman Bros.
 Carlson, Jno.
 Hagwall, O. M.
 McMurtie, H.
 †Mahlke, E. & Co.
 Neitge, Otto
 †Nelsen, J. B. & Co. (Large)
MARSHALL—†Fultou, H. P.
MINNEAPOLIS—Archer, H. & Co., 314 10th, S
 Bauman, H. J., 212 4th, S
 Benson, J. A., 2534 Dupont av, S
 Berg, L. C., 54 3d, S
 Brown, G. W., Masonic Temple
 Brown, J. F. Co., 1412 5th, S E
 Bryant, F. R., 1329 Hennepin av
 Bull & Vaughn, 1514 4th, S E
 Cederstrand A. & Co., 984 Central av
 †Chadwick, L. L., 2934 Nicolett av
 Cheney, R. J. & Co., 113 4th, N
 Chose, M. J., 1411 W Lake
 Constantiue, J. H., 112 Washington av, N
 Cooper, Barclay, 1114 Yale pl
 †Cosler, A. L., 616 N W bldg
 Crawford, W. M. & Son, 11 S 4th
 Davis Construction Co., 304 Kasota bldg
 Davis, E. J., Kasota bldg
 Dawson, E. T., 2524½ Central av
 Deane, C. H., 700 6th, S
 Elliott, J. & W. A., Lumber Exchange
 †Eugquist, John, 24 W Lake
 Erickson, A. G., 404 Prior av, N
 Evensta & Hagstrom, 301 N W bldg
 Fagerstrom, John, 2456 Harriett av
 Fisher, W. H. & Co., 187 Nicollet av
 Haglin, C. F., Lumber Exchange
 Healy, T. P., 3115 2d av, S
 †Heaton & Ellison, 1818 4th av, S
 Holm, Marcus, 2711 16th av, S
 Ingemann Bros., 1930 St. Anthony av
 Ingham, Henry, 3140 5th av, S
 Jeub, Peter, 1705 N 2d
 Johuson, E. M., 407 Kasota bldg
 Johnson, J. A., 606 2d av, S
 Kerrick, C. W. & Co., 501 3d av, N E
 La Bella, Jos., 411 5th av, S
 Lathrop, T. A., 112 S E 5th
 Leck, Jas., 215 7th, S
 Leighton, H. N. Co., 213 16th, S
 Levander & Ericson, 2446 12th av, S
 †Libbey & Libby Co., 244 2d av, S
 *Lindahl, O. A., 3255 15th av, S
 Lindquist & Noreu, Bank of Commerce
 *McKenzie, J. H., 11 N 3d
 McLeod, Angus Co., 409 6th av, S
 †McMillen, F. G., 700 10th av, S E
 Martin & Cloud, 900 Hennepin av
 Newcomb, E. M., 915 2d av, S
 Newman & How, State Agricultural College
 *O'Connor, Michael, 313 12th av, N E
 Opdahl, C. O., 710 11th av, S
 Parsons, H., 516 Guaranty Loan
 Pelton, R. B., 418 6th av, S
 Pike & Cook, 416 5th av, S
 Rhode, Erick, 1520 Adams
 †Richards, Frank G., 501 E 24th
 †Rydell & Carlson, 214 19th av, N
 Scherer, L. T., 306 E Lake
 *Sandquist, G. A., 2621 Grand av
 Simons Contracting Co., 110 7th, S
 Small, F. C., 18 W Lake
 Sprague & Co., 411 Plymouth av
 Stromquist & Sons, 1901 Oliver av, N
 *Trainer Bros., 424 Boston blk
 †Tyler & Co., 715 6th av, S
 Urquhart, Wm., 2615 Emerson av, S

Waldon, C. P., 2624 Harriett
 White, Wm., 2411 Central av
 Woodruff, A. S., 3011 Stevens av
 Wunder, Jno., Lumber Exchange
 *Young, Louis, 912 Northwestern bldg
 Zoller, T. A., 5100 Hennepin av
MONTEVIDEO—Everson, Everett
 Rodeberg, Thos. T.
MOORHEAD—Bjorkquist, Carl
 Fridlund Bros.
 †Merritt, W. H.
NEW ULM—Diedrick, Geo. H.
 Heers, C. A.
 †Kopp, Hermann
 Puhlmann & Gronau
 †Schapekalm, Herman
 Schriber & Steinhauser
 Weiland & Stegeman
NORTHFIELD—Johnson, Riddle & Childs
 †Lord, D. H.
 Miller, Theodore
OWATONNA—†Hammel Bros. & Anderson
PIPESTONE—†Redmon, G. S.
RED WING—Johnson & Nelson
 †Landeck, John
 †Longcor, W. J.
ROCHESTER—Alson, Chris., 305 Washington
 Hance, William, 305 College
 McCormick, Thomas, 14 N Liberty
 Pollock & Riedell
ST. CLOUD—†Heimann, John
 †Kropp, Carl
 Steckling, Hy. P.
 †Wahl, John J.
ST. JAMES—†Anderson Bros.
 †Schweppe Bros.
ST. PAUL—*Althen, Fred'k, 1054 Ashland av
 †Amlee, O. G., 40 W 10th
 †Anderberg, P. A. & Co., 399 Selby av
 †Ash, Christopher, 270 Maria av
 †Balderson, J. G., 187 W 4th
 Bartels, F. H., 157 Fuller
 Baumeister, Wm., Jr., 1195 Ross
 †Brandhorst, J. H., 652 Miss
 *Butler Bros. Construction Co., New York
 Carlson, J. M., 227 W 5th Life bldg
 Crego, D. H., 1009 Marshall av
 †Dahman, Aron, 53 W 4th
 Entenmann, John, Forest c Minnehaha
 †Erickson, A. G. (Large), 404 N Prior av
 †Fee, Jno. J., 225 St. Anthony av
 †Fitzpatrick, Thos. & Son, 17 W 9th
 †Foelsen, Wm., 611 Aurora
 Frandsen, H. J., 260 Lafond
 Frankman Bros. & Morris, 906 Globe
 Fransen & Co., N. P., Endicott bldg
 Gardner, W. T., 349 Ramsey
 †Grant, G. J., 61 E 9th
 †Guertin, Joseph, 20 8th
 Hanson, O. L., 449 Wacouta
 Harrington, D. D., 134 E 8th
 Hassleu & Co., 649 Selby av
 Hess & Lambert, 544 Wabasha
 *Holm, J. O. (Brick & Stone), 437 Banfil
 Husby, Thos., 887 Raymond av
 †Ingemann Bros., 1930 St. Anthony av
 Ivey, T. H., 1384 Selby av
 Johnson, E. J., 902 Thomas
 †Kay, Henry, 452 Edmund
 †Krapp & Holm, 224 W 5th
 †Larsen, L. E., 692 Armstrong av
 Larson, Albert, 636 Selby av
 *Lauer, Jacob (Brick), 252 Erie
LAWES, GEORGE H. & CO. (Brick & Stone), 156 E 3d. (See adv. index, end of book)
 *Lind, John, 34 E 2d
 †Linden, A. P., 112 E 10th
 Linden, J. O., 596 E Lawson
 Lund & Larson, 1181 Ross
 *Molin, J. G. (Brick & Stone), 677 Sherburne av
 †Newman & Hay, Chamber of Com bldg
 *Nystrom, Axel (Brick & Stone), 145 E 9th
 †Oakes, Geo. W. & Co., 336 Endicott bldg
 Oase, J. P., 187 Mt. Airy
 O'Connell, D. E., 301 Selby av
 *Olson, John, 930 Burr
 Peterson, F. O., 932 Iglehart
 Peterson, John, 554 Lincoln av
 *Phillip, Joseph, 315 Fuller
 *Poppenberger, Wm., 731 York
 †Rankin, Andrew, 484 Selby av
 †Ries, Geo. & Co., 918 Thomas
 Robde, Jno., 805 Carroll
 †Romer, F. J. & Son, 200 Ramsey
 Rydeen, E., 755 University av
 †St. Paul Building Co., 460 Rice
 St. Paul Contracting Co., Germania Life
 Skon, Andrew, 1256 Payne av bldg
 †Skooglun, Chas., 1105 Jessie
 Slater, G. H. (Plasterer), 653 Aurora
 Smith, Clarence P. Co., National Ger.-Am.

Smith, O. G., 744 Grand av
 *Springer, F. T., 318 N Avon Bank bldg
 *Steinmetz, John, 347 St. Anthony av
 Sunstrom, John, 288 Erie
 Sweuson, Olof, 945 Clark
 Taylor, Matthew, 201 W 5th
 Tbuemmel, Emil, 104 W 7th
 Westby, Nickolay, 693 Mt. Hope
 †Wicken, F. J. & Co., 228 McBoal
 †Wildung, C. P., 323 Van Minden
ST. PETER—Brogan, Thos.
 †Olson, Albert S.
 Smith, Jas.
STILLWATER—†Biegling, W. A.
 †Johnson, August
 †Johnson, C. O.
 †Kutz, A. F.
 †Larson, Gustav
 †Linner, Frank & Co.
 †May, W. M.
 †Miller, H. F. P.
 †Northey, Miss Effie
 †Olson, O. H.
 †Schmidt, Eugene
THIEF RIVER FALLS—Dorge, F. S. & Co.
TWO HARBORS—Pastoret & Lunz
 †Spurbeck, G. H.
VIRGINIA—Butler, Chas. C.
 Rinnert, F. J.
 Sampson, Jas.
WINONA—Bartley, Louis, 158 W Wabasha
 †Baumgart, Wm., 403 E King
 †Belrens, Henry, 353 E Wabasha
 Bohn, Conrad, 405 Center
 †Bradley, E. A., 1120 W Broadway
 Brown, Peter H., 677 Huff
 †Clausen & Beseler, 162 Chestnut
 Coll, Wm., 466 E 3d
 Feidler, Wm., 451 E King
 Gage, Daniel, 663 Olmstead
 Gates, O. J., 507 Winona
 †Grant, E. T., 714 W B'way
 †Harders & Gatz
 †Huseman, Fred., 627 Grand
 †Knopp, John, 978 Sherman
 *Kraft, L., 216 E Sanborn
 *Kratz, Fred J. (Brick & Stone), 477 E. 4th
 *Lohse, John, 362 E. 5th
 †Meler, C. & Son, 117 Franklin
 Motzen, Jno., 674 E B'way
 Polzin, Frank, 266 E Sanborn
 Proell, Frank, 664 Harriet
 Schwab, P., c Lincoln & Sherman
 Seidlitz, H. W., 565 Sioux
 Stahman, H. C., 569 Sioux
 Sweazey, J. S., West end Fifth
 Trautner, Andrew, 625 E 3d
 Wendler, Fred., 1055 W Wabasha

MISSISSIPPI.

BAY ST. LOUIS—Gardebled, G.
BILOXI—†Harkness, W. T.
COLUMBUS—McClannahan, D. S.
 Stansell, J. W.
 Stansell, Arthur
 Stansell, J. P. & Son
GREENEVILLE—Birmingham, J. W. & Co.
 Hecker, Gus.
 †Neal, W. H.
 Thompson, K. C. & Co.
HATTIESBURG—Bennett, W. C.
 Graham, W. O.
 Limbaugh, J. B.
JACKSON—Garber, I. C.
 †Hardy, H. K.
 Hull, F. B. Construction Co.
 Landen, J. C.
 Randle, J. T.
MERIDIAN—Carson & Richardson
 Dabbs, C. H. & Co.
 Etheridge, I. F.
 Hopkins, Fred.
 †Rusbush, Chas. M. (Large)
NATCHEZ—Bost, R. E.
 †Kitteringham, W. K.
PORT GIBSON—Jordon, E. C.
 Robinson, A.
VICKSBURG—*Beck, J. W.
 Enochs, Havis Lumber Co.
 *Gregory, T. S.
 Miller, Wm.
 Padgett, W. H. Co.
YAZOO CITY—Morford, Wm.

MISSOURI.

BOONVILLE—†Cochran, W. J.
CAMERON—Dildine Bridge & Construction Co.
CAPE GIRARDEAU—Koch, H.
 Vogelsang Bros.
CARTHAGE—McNerney Bros. & Co.
 Missouri Stone & Construction Co.
CHILLICOTHE—†Glore, O. P.

COLUMBIA—†Miller, F. P.
DE SOTA—Herman, Otto
HANNIBAL—†Mattison & Warren, Main c Church
 †Richardson, Wm. & Son., 420 Chestnut
INDEPENDENCE—Anderson, J. M., 1002 N
 Becker, Jos., 132 E Short Main
 Blankinship, C. S.
 *Campbell, W. O.
 Cleveland, J. J.
 Daniels, Noah
 Gaines, R. L.
 Hattey, Thomas
 †Kennedy, Jno. A.
 *Randall, A. J.
 *Randall, G. W.
 *Randall, J. J.
 Randall, W. R.
 Yetter Christian
JEFFERSON CITY—*Kolkmeier, W. H. & Co.
 Kramp, Chas. (Stone)
 Opel, A. & Co.
 Trippensee, William
JOPLIN—Dieter & Wenzel
 Hamilton, Dan.
 Joplin Construction Co.
 Koehler, A. F.
 Williams, J. P.
KANSAS CITY—Acame Building & Repair Co., 1316 Walnut
 Acme Carpenter & Repair Co., 619 B'way
 †Alexander, W. T., 113 W 9th
 †Anderson, R. M., 2002 E 11th
 *Beatty, F. R., 3036 Agnes
 †Bell, F. M., 3240 Roberts
 Best, Louis A., Armour boul & B'way
 Birkett, R. F., New Ridge bldg
 †Boden, Gustav (Stone), 106 Essex bldg
 †Bonham, J. J., 2852 E 7th
 Brewer & Wildrick, 3813 E 15th
 †Brown, Geo. L. & Son, American Bank bldg
 Burton, Hy., 2620 Lister av
 Burton, Lee, 2311 Norton av
 †Carter, J. W., 110 E 34th
 †Casey, M. J., 2114 Jefferson
 Collins, C. F., 1411 Main
 †Cooper, W. E., 8 W 37th
 Culver, A., 214 W 11th
 Dewesse, T. R., 312 Westport
 †Estes, E. T., 3612 Lydia
 †Fleming, Wm., 2617 Myrtle
 Foundation Co., 624 New Nelson
 †Fristoe, C. H., 4325 Jefferson
 Fuller, Geo. A. Const. Co., Hall bldg
 General Construction Co., Kempner bldg
 †Glenn, C. R., 1610 E 26th
 Good, J. W. & Co., 20 E 9th
 *Grieb, Louis (Stone), 209 Postal Tel bldg
 †Groves, Edw. T., 1332 Wyandotte
 †Gunn, J. W., 4137 Woodland
 †Harris, C. A., 4420 Main
 *Harte, Wm. (Brick), 2413 E 10th
 †Harvey, S. J., 412 Colorado av
 †Harvey, T. H., 301 Bellaire av
 *Hayde, J. C. (Brick), 3108 E 13th
 †Hayde, S. J. Contracting Co., 507 K C Life bldg
 Hayes & Beverforden, Sheidley bldg
 †Heinz, Chris., 2916 E 35th
 †Herman, W. W., 3904 Park
 *Herter, Paul (Brick), 2312 Montgall av
 †Hiatt, J. G., 1616 B'way
 †Hindman, J. W., Eaton av bet 36th & 37th
 †Hollinger & Mitchell, 1214 Main
 Home Construction Co., 1407 Walnut
 †Honl, John, 3706 E 15th
 Holn & White, New Ridge bldg
 †Houlehan, C. T. Contracting Co., Master Builders' Ex
 Howell & Kagy, Shukert bldg
 †Hucke & Sexton Contracting & Building Co., Dwight bldg
 *Huggins, G. W., 216 Shukert bldg
 †Hyatt, C. H., 2510 Brighton
 †Jackson, F. M., 2202 Cypress av
 *Johnson, Edw. (Brick), 2446 Michigan av
 †Johnson, W. C., 2612 Garfield
 Jones, J. A., 1511 Main
 Kansas City's Reliable Carpenter, 1113 E 12th
 *Kleinboffer, Alois (Stone), 2734 Wyandotte
 †Knapp, J. H., 1226 Askew av
 *Lang, Albert (Brick), 2718 E 31st
 Leviston, Walla, 14 W 3d
 *Linder, Chas (Stone), 1430 Garfield
 †Lindsay, H. C., New Nelson bldg
 †Lott, C. M., 1605 Garfield av
 †Love, G. A., 3722 Michigan av
 †Love, Wallace, 3801 Genesee
 †Lovitt, C. W., 1905 E 19th
 *McCleary, C. G. (Brick), 2214 B'klyn av
 McGee, Peter, E End Belt Line Bridge
 †Mapes, W. H., New York Life bldg

†Margerum, J. C., 5507 E 17th
 *Marnel, Thos. (Stone), 1416 Michigan
 *Marshall, D. E. (Brick), 209 Postal Tel bldg
 *Massman, J. H. (Brick), 1323 Brooklyn
 *Mathers, Andrew (Stone), 209 Postal Tel bldg
 *May, C. F. (Brick), Hardesty c 24th
 *Megenity, R. A. (Brick), 209 Postal Tel bldg
 †Metcalf, D. B., 4010 E 7th
 Miller, E. G., 1808 E 9th
 Miller, Nicholas, 3112 Highland av
 †Moll, W. F., 209 Postal Tel bldg
 †Moore, J. A., 3235 Garner
 Morgan, David H., 1122 Troost av
 Morley, Patrick J., 1643 Wyandotte
 †Murphy, J. R., 4223 W Prospect pl
 †Neevel, J. B., New Ridge bldg
 †Nelson, G. W., 1130 Indiana av
 *Nethercutt, L. F. (Stone), 209 Postal Tel bldg
 †Nilson, C. A., 304 Kemper bldg
 *Noonan, P. H. (Brick), 209 Postal Tel bldg
 *Oates, J. A., Postal Tel bldg
 O'Connell, Matt., New Ridge bldg
 †Perry, A. D., 1701 Elmwood
 †Pinaire, L. R., 714 E 9th
 †Ponclot, F. J. & Sons, 719 Indiana av
 †Prather, W. M., 209 Postal Tel bldg
 Ravens, Jno., 3643 Vine
 Reyborn-Laird B. & C. Co., Bryant bldg
 *Richards, E. F. (Brick), 1821 Paseo
 Richardson, A. H., 1222 Wyandotte
 †Ritterskamp, F. J., 2524 Brighton av
 †Robbins, W. E., 3111 Charlotte
 Rosenberg-Commer Cons. Co., K. C. bldg
 Rowland, L. M. & Co., 1206 Forest av
 †Rudy, D. V., 422 Olive
 †Schwerger, T. G. Contracting Co., 1309 Balto. av
 *Sibley, J. J. & A. H., 2220 Prospect
 †Smith, J. J., 3300 E 10th
 *Spach, L. W., 1516 Tracy av
 †Stewart, Robert, 3915 Wyandotte
 †Stone, J. H., 4119 Oak
 †Summerson, C. H., 209 Postal Tel bldg
 Suttington, Wm., 612 E 6th
 †Tallquist, Andrew, 3829 E 9th
 Taylor & Winn, Mass. bldg
 †Thayer, H. S., 3112 Charlotte
 †Thomas, J. D., 1312 E 33d
 †Thomas, Rowland C., 508 E 15th
 †Thompson, Geo., 3511 Morrell
 Tiberghin, J. R., 3925 Bell
 Timmerman, F. H., 103 Spring
 Tomlinson & Son, 1928 College
 Tuggle, J. J., 3110 Oak
 *Underwood, S. W., 415 Garfield av
 *Welch, Jacob, 1214 Harrison
 *Wells, F. C. (Brick), 2305 Cypress av
 †Welsh, W. J., 1026 Norton
 Wheelock, Truman R., Century bldg
 †White, J. C., 3223 Washington
 †Whitehead, J. H., 2434 Kensington
 Williams & Chenoweth, 3105 S W boul
 †Wilson, W. A., 613 Postal Tel bldg
 †Winkelman, H. F., 2828 Michigan
 †Wise, Wm., 1706 Harrison
 †Wood, W. H., 1028 Norton
 Wulser Contracting Co., 1113 E 12th
KIRKSVILLE—Anderson, C. C.
 Atterbury, Geo. T.
 Chadwell, S. H.
 Earhart, J. T.
 Long, T. S.
KIRKWOOD—Bopp, Theodore
 De Hoog, Richard
LIBERTY—Hayes, B. F.
LOUISIANA—Stewart, Ralph
 †Woods & Horton
MACON—McCarter, J. A.
MARSHALL—Page, E. R.
 Rose Bros.
MEXICO—Ballew, Jno. H.
 Brauer, Henry
 Bryarly, J. W.
 Campbell, J. P.
 Gilbert, Silas
 Hagen, Robert
 McDonough, Robert
 McElhinney, A. J.
 Meyer, Henry
 Pattison, Wiley
 Rebman, Phillip
 Reld, A. F.
 Sebastian, Chas. W.
 Shepherd, H. C.
 Shepherd, J. O.
 Umstad, John
 †Weber, Aug.
 Westerman, N. H.
 Yates, Vincent

MOBERLY—†Broddus, John M.
 Howell, M. J.
 Sharp, William
 †Sinclair, George A.
 Wilson, W. H.
NEVADA—*Daly, J. A. (Large)
RICH HILL—Jaeger, G.
ST. CHARLES—Bode, H. G.
 Borchardt, Fritz
 †Bortfelt, Fred
 †Bull, Carl & Son
 †Heckman, John
 Hollrah, Jno.
 Hollrah, J. D.
 †Meiser, W. & Co.
 Pfaff, Jno.
 Schlueter, Theo.
 †Strathman, C. F.
 *Ueberle, John F.
 Wienkin, Louis
ST. JOSEPH—Batsell, L. H.
 †Buddy, Philip P., 419 Main
 Gaugh, Jno. O.
 Hoffman & Son
 Kaucher, Frank
 King & Hotchkiss
 †Lehr, J. W., 1702 Fredrick av
 Lewis, G. W., 7th nr Garden
 Maeder & Miller
 Rackliffe & Gibson, 619 Edmund
 Rector, L. M., 407 Main
 Reipen, J. C.
 Stamey, T. W., 1703 St. Joseph av
 Stock, Emil
 Thirifay, Michael, 410 S 7th
ST. LOUIS—Abrahams, Sol. & Son, 1506 Pine
 Anderson, John Construction Co., Mermod & Jaccard bldg
 Anderson, R. A., 5258 Page boul
 Bacon, O. W. (Brick), 4363 N Market
 Baerveldt, J. F. Construction Co., Roe bldg
 Barwick Construction Co., 4953 McPherson av
 Basset, J. & J., 810 N 4th
 †Black, A. W. Construction Co., 2107 Clark av
 Black, James Masonry & Contracting Co., Commercial bldg
 Boerke, Fred, 1839 S 9th
 Boland, J. V. Construction Co., 211 N 7th
 Brewster-Ames Building Co., 721 Olive
 †Bright, James H. Contracting & Bldg Co., Lincoln Trust bldg
 Britt, Michael, 3158 Brantner pl
 Buehler-Cooney Construction Co., 122 N 7th
 Builders Contracting Co., 821 Chestnut
 Burke Construction Co., 5877 Bartner av
 Busch, Wm. R. Construction Co., 211 N 7th
 Christopher-Pearson Contracting Co., 4461 Cote Brillante av
 Crotty, M. M., 2946 Scott av
 Consolidated Building Co., 816 Olive
 Corwin Building & Construction Co., Roe bldg
 Cudmore Construction Co., 802 Chestnut
 Daly & Gillespie, 816 Olive
 Daman, Wm., 810 Olive
 Davies, R. M., 4525 Chouteau av
 †Davis, Jas. T., 2705 Caroline
 Dawson, R. T. & Son, 6011 Columbia av
 Doerer, Xavier, 2107 Gravois av
 Doerste, Robert & Co., 5320 Odell
 Dougherty, Jno. E. Masonry Co., 721 Olive
 Evans, Daniel, 816 Olive
 Evans, L. J., 203 N 10th
 Farrell, Jas. Construction Co., 812 Chestnut
 †Fisher, S. E., 4433 Easton av
 Fitzgibbon, J. D., Chemical bldg
 Flannery, Joseph, 1420 Morgan
 Fogertey, P. P. & Sons, 1333 Aubert av
 Francis Realty & Construction Co., 4922
 Frein Building Co., 1113 Chestnut
 Fruin & Colnon, Merchants Laclede bldg
 Gahl, Wm. & Co., 1414 S 13th
 Galvin, J. B., 4441a Easton av
 Geisel Construction Co., 620 Chestnut
 Gerhard, E. C. Building Co., 816 Olive
 *Gillespie, R. M. (Brick), 1346 Aubert av
 Goesse & Remmers Building & Contracting Co., 85 Cass av
 Haeseler, A. H., Wainwright bldg
 *Haeseler, A. H., 105 N 7th
 *Hartmann Bricklaying & Contracting Co., 1810 Lynch
 Harvey & Hall, Chemical bldg
 Helm Building Co., 620 Chestnut
 Heman Construction Co., 122 N 7th
 Hill & O'Meara Construction Co., Wainwright bldg
 Hoffman Contracting Co., Globe-Democrat bldg
 Jones, D. E., 4457 Berlin av
 †Jones, S. L. Bldg Co., 620 Chestnut
 †Kellerman Contracting Co., Roe bldg

Lloyd, Hiram Building & Construction Co.,
 †Low, Jno., Benoist bldg 816 Olive
 Mattheis, F. W. Building Co., 2504 Elliott av
 Maule, E. P., Jr., Chemical Co.
 Melcher, E. L., & Co., 723 N 23d
 Morley Bros., 1727 S Jefferson av
 Morrison, R. W. Construction Co., 113 N 8th
 Motzel, Leo., 2217 E College av
 Mueller, F. C. & Bro., 1726 Olive
 Mueller, J. J. & Son, 2915 Indiana av
 †Murch Bros. Construction Co., Odd Fellows' bldg
 O'Malley, John, 2010 Cass av
 †Pelligreen, Nicholas, 816 Pine
 Petty, Benj. Contracting Co., 2413 N 9th
 Plummer, Louis L. & Co. (Brick), 902 Chestnut
 Powell, Jas. H., 3308 Commonwealth av
 Pralle & Dierkes, 2837 Cherokee
 Prendergast, Geo. G. Construction Co., Chemical bldg
 Price, W. J., 1262 Aubert av
 Quinn, Jas. J., 614 Walnut
 Raithel, Eberhard, 4018 Grove
 Raterman Building & Construction Co., 1943 St. Louis av
 Reinschmidt-Hanni Cons. Co., Frisco bldg
 Remmers, Harry J., Olivia bldg
 Remmers & Sutter, 1313 S 13th
 Rich Construction Co., 510 Pine
 Richardson, Wm., 316 N 6th
 Rocklage, Henry W., 1507 Monroe
 †Ross, Samuel M., 2801 Gamble
 Rountree Construction Co., 4344 Lindell boul
 Ruff, A. I., 3001 Indiana av
 St. Louis Construction Co., 806 Chestnut
 St. Louis Contracting Co., Odd Fellows bldg
 Samuel & Burden Construction Co., Commercial bldg
 Samuel, W. Russell Construction Co., B'way c Chestnut
 Schenck, Jacob Building & Contracting Co., Salem c Penn
 Schulte, W. H. Construction Co., 2217 Oriole
 Schumacher, W. A., Odd Fellows bldg
 Selden-Breck Construction Co., Fullerton bldg
 Shasserre, E. P., Benoist bldg
 Steininger Construction Co., 816 Olive
 †Storek, H. & Co., 115 Vine
 Sutherland, Wm. M. Building & Construction Co., Victoria bldg
 Taylor, F. & Son, 216 Locust
 Tharp Construction Co., 3653 Cass av
 Vollmer, J. H. & Son, 3926 N 20th
 Wade Bros. Construction Co., 2272 Old Manchester rd
 Wagner, E. L. Construction Co., 816 Olive
 Ward, Edw'd., Chemical bldg
 Warc, J. A. Construction Co., Houser bldg
 *Westlake Construction Co. (Large), 510 Pine
 Williams, W. H. & Son, 1004 Chestnut
 *Wilson, J. W. & Son, Odd Fellows bldg
 Woltehek, E. G., Lincoln Trust bldg
 Ziegelmeyer & Suter, 7300 Minnesota
SEDALIA—Chaffee, L. S., 209 S Quincy
 Clum, J. W., 1204 Washington
 Damron, S. R., 1720 S Missouri
 Dilley, R. S., 306 W Johnson
 Hogan, A. J., 901 E 11th
 Mason, W. H., Capt., 902 E 2d
 Moyer, Jerome, 912 W 10th
 Sargent, F. S., 1611 S Larimie
 Taylor, W. E., 316 W 11th
 Warren, J. C., 671 E 15th
SPRINGFIELD—†Balsley, C. M., 479 E Harrison
 †Bartlett, S. J., 779 W Elm
 †Barton, G. W., 1347 Robberson
 †Bowman, A. R., 822 W Webster
 †Bowman, T. K., 1412 Boonville
 †Buchanan, Perry, 215 N Patton al
 †Butts, S. D., 709 E Dale
 †Compton, A. A., 2350 N Campbell
 †Davis Planing Mill Co., 1202 Robberson av
 Fallen, A. J.
 †Foote, A. D., 437 W High
 †Fry, M. P., 952 Smith
 Harman, E. W., Fremont & Bardell
 Hanson, A. N.
 †Hilborn J. C., 613 N Main
 †Humphreys, T. K., 425 South
 †Hutler, W. H., Holman c Main
 Mayers, Henry
 †Mills, J. P., 1900 Missouri av
 Killbuck, Wm. H., 214 S Jefferson
 *Lloyd, C. F., 784 E Elm
 †Loyd, J. H., Holman c Market
 †Mayer, H. P., 1015 W Florida
 †Myers, E. R., 898 S Campbell
 †Parr, P. L. & Sons, 430 S Patton al
 *Phoenix Contracting Co. (Stone), 444 W
 Preserpl, Henry Phelps
 Richardson, W. F.

†Seymour, W. M., 753 S Campbell
 †Sheridan, S. W., 930 Smith
 †Shinn, G. Leslie, 460 W Commercial
 †Shockley, F. M., Spring & Lynn
 †Shumaker, G. M. & Son, 321 E Walnut
 Southworth, M. M.
 †Strubl, F. S., 1158 W Mt Vernon
 †Swanson, A. F., 544 W Poplar
 *Walden, W. A., 895 S Gny
 †Weaver, S. E., 780 Lincoln
 †Wookey, M. A., 911 W Division
 *Woldridge, T. D., 930 Robberson
 †Yates, J. T., 834 Scott
WEBB CITY—Ryus Supply & Const. Co.
 Smith Bros.
 Wiggington & Milton
WEBSTER GROVES—Weaver, C. C.

MONTANA.

ANACONDA—Allen, S. D.
 Barker, H. H.
 Dwyer, Daniel J.
 Starr, C. W.
 Thibodeaux, L. Frank
 White, R. F.
BILLINGS—Billings Construction Co.
 Gagnon, E. H. & Co.
BOZEMAN—†Morris, Peter T.
 †Vreeland, F. W.
BUTTE—Benoit, Moses (Brick & Stone), 1212
 Jefferson
 Blakely, J. M. (Brick & Stone), 921 Nevada
 av
 Bloom, J. M. (Brick & Stone), 821 Colorado
 †Bookman, E. T., 22 W Mercury
 Brasier, R. T. (Plasterer), 17 E Fremont
 †Coughlin, J. H., 227 E Granite
 Decker, G. L., 621 W Quartz
 Dougherty, J. J. (Plasterer), 1035 W Quartz
 †Dunckel, E. N., 207 Colorado
 Ellis, Thos. (Brick & Stone), 600 W Silver
 Fagan, W. S. (Plasterer), 326 S Arizona
 Francis, Edmond H., 931 W Copper
 Goddard, C. C. (Brick & Stone), 643 S Main
 Godin, Hormedes, 524 W Park
 Greene, W. C., 923 N Mercury
 †Grenon, Joseph, 151 W Aluminum
 Grose & Holbrook, 26 W Daly
 †Hogan, J. F., 9 W Quartz
 †Kelley & O'Brien, 20 E Quartz
 Laden, A. (Brick & Stone), 29 W Aluminum
 Lewis, Isaac (Brick & Stone), 805 N Montana
 McCune, M. J. (Brick & Stone), 516 S Mon-
 Marshall, J. W., 404 E Granite tana
 †Mattson, Andrew, 209 W Porphyry
 Naughton, Martin (Brick & Stone), 304 S
 †Perham Bros. & Gruber Jackson
 Rafferty, J. J. (Plasterer), 611 Henry
 Reardon, Timothy (Plasterer), 642 Placer
 Riddell, J. A., 25 W Park
 Robinson, W. B. (Brick & Stone)
 Rowan, Thos. (Brick & Stone), 506 S Main al
 Sauer, Alphons (Plasterer), 728 Utah av
 Scott, Elmer (Plasterer), 113 W Platinum
 Scott, W. G. (Plasterer), 306 W Aluminum
 †Shackleton & Whiteway, Construction Co.
 Sherwood, Wellington, 9 W Quartz (Large)
 †Smith G. M., 321 S Idaho
 Taylor, G. E., 10 W Galena
 Thomas, David (Brick & Stone), 208 W Cop-
 †Vroom, B. E., 1323 E Jefferson per
 Vroom, W. H., 846 E Galena
 Wakeman, C. P. (Brick & Stone), 306 S
 Idaho
 Welch, Jas. (Brick & Stone), 823 N Montana

GREAT FALLS—*Coombs, Frank
 Donlin, Jas. H.
 †Lease & Richards

HELENA—Andrews, D. W., 22 N Euring
 Cole, E. M., 1322 Helena av
 Halliday, James, 12 E State
 Pew & Dryburgh, 324 Allen
 †Reed, G. B., 311 Allen
 Stabern, Chas., 309 N Rodney
 Wagner, Edw., 1631 E Lynndale av
MISSOULA—Gibson, A. J.

NEBRASKA.

ALLIANCE—Reck, S. C.
BEATRICE—Kilpatrick Bros.
FALLS CITY—Heineman, C. H.
FREMONT—†Cherry, A. F.
 †De Long, A. H.
 †Denny, P. D., 649 N Main
 †Seeley, Son & Co., 333 N Broad
 *Whitfield, R.
 †Wilkey, W. C., 77 S Clarkson av
GRAND ISLAND—Geer & Harrison (Large)
LINCOLN—†Arthur Wm., Grand Hotel
 Auman, C. B., 850 N 23d
 Beardslee, C. O.

Birchard, G. D.
 †Bishop, N. Y., 1621 G
 Bowers, J. G. (Brick), 2411 D
 Cameron, J. J., 2302 Holdredge
 †Campbell, C. D., 1702 S 11th
 Campbell, J. A. & Son
 †Campbell, W. L., 921 Peach
 †Fraas, Jno., 815 K
 Gaddis, R. J., 346 N 13th
 †Harrison, T. P.
 Howard, D. B.
 †Jeusen, Louis (Large)
 †Kaar, Theo.
 Lawruce, W. D., Farmers' & Merchants'
 †Mason, F. A., 2035 S Ins. bldg
 †Ryman, J. F. & C. W., 400 S 9th
 †Schaaf, C. A., 1616 O
 Selders, H. A., 944 N 23d
 †Sheeley, Chas. G. (Large)
 †Sheeley & O'Shea (Large)
 Stephens Bros. Co. (Large), 2418 N Nst.
 †Wilson, Geo. A., 1117 P
NEBRASKA CITY—Brown, H. G., 711 1st,
 Corso
 Hoops, E., 1313 Central av
 Kooutz, William, 1204 Central av
 Manson, I. B., 515 1st, Corso
 Meyers, L., 1311 Central av
 Roach, W. W. (Brick), 1217 3d av
 Sauquist, A. (Stone), 914 4th av
OMAHA—†Alcox, S. S., 1702 B
 Anderson, N. J. (Stone), 2711 Meredith
 †Avery, J. A., 1421 Plukuey
 *Baker, B. F. (Brick), 1836 N 18th
 †Bassett, G. C., 1801 Binuey
 †Buck, G. W., 2526 Cumming
 †Carter, R. B., 2024 Miami
 †Christiansen, Fred, 2429 Parker
 *Coy, D. A., 2653 Leavenworth
 †Donecken, A. H., 1608 Capitol av
 †Dutcher, Warren, 4228 Erskine
 Everitt, Wm., 2916 Cuming
 †Garloch, G. W., 214 S 30th
 †Hamann, Hy., 429 Range bldg
 Hamilton, R. P. & Ed. O., 526 Bee
 Harte, Jno. H., 1609 Webster av
 †Hicks, E. J., 3343 Grand av
 †Hokanson, C. W., 25th c Leavenworth
 †Jacobberger, Alphonse, 2708 Meredith
 Jobst, B. J., Paxton blk
 †Joy, C. W., 2901 Pinkuey
 Kerr, E. W., 2110 Ohio
 *Kiewit, Peter (Brick), 1722 S 28th
 Livesey, R. E. (Brick), 2813 Capitol av
 Lockwood, D. S. (Brick), 2554 Manderson
 †McCoy, G. W., 2606 Decatur
 †McIlvaine, T. G., 4227 Harney
 Marston, E. C., 112 N 17th
 Murphy, Hugh, Bee bldg
 †Nelson, N. G. & Son, 4523 Nicholas
 *Nicklas, Wm. (Brick), 3006 S 17th
 †Parrish, W. H., 2616 Burdette
 Parsons & Kiene, 17th & Harney
 †Pierson, A. J., 801 N 20th
 †Plotts, M. L., 4523 N 39th
 *Preudergast, Jno. (Brick), 5209 Lincoln av
 †Rector, J. F., 4208 Lake
 Redgwick, Wm. (Stone), 2563 Woolworth
 Rice, Wm. F., 1815 St. Marys av
 Rocheford & Son, Paxton bldg
 Schmitz Bros. (Brick), 2455 S 19th
 †Sprague, Geo. W., 4544 Seward
 Stanley, A. J., 2914 Decatur
 †Stevenson, S. G., 1703 St. Mary's av
 †Strehlow, R. C., 3813 Charles
 *Stromberg, C. P. (Brick), 1321 S 28th
 †Swanson, A. E., 1618 Capitol av
 Toms, J. J., 2006 Locust
 †Weeks & Voss, 321 S 12th
 †Wilson, J. F., 1911 Daveport
 †Woolf, Silas P., 2622 Colby
 †Wright, T., 3700 S 20th
 †Young, J. J., 2853 Miami

SOUTH OMAHA—†McDonald, T. C., 2216 J

NEVADA.

RENO—Burke Bros.
 Clough, C. E.
 Fahrion & Smith

NEW HAMPSHIRE.

BERLIN—Lemleux & Gilbert
 *Rowell, H. C.
 Russel & Craigue
 Stewart & Snodgrass
OLAREMONT—†Beckwith, H. R., Unlou blk,
 Tremont sq
 Huntley, Allen E.
 †Stockwell, George T.
CONCORD—Chesley, Geo. W.
 Danforth, Sylvester P.
 Farmer, Miles F., 92 School
 Fellows, C. L. & Co.

†Goodhue, Geo. (Large)
 Grover, Edw. A.
 Hall, Byron W.
 †Hutchinson, E. B. Bldg Co., Turnpike
 Ritchie & Elliott, 77 N Main
 Rowell & Plummer, 22 Warren
 Swain, C. H., Ferriu blk
 Tabor, H. E., 3 N Main
 Trask, A. S.
 Virgin & Forest, rear 70 N Main
DOVER—Beede, Augustus H., 20 Mt. Vernon
 †Bishop, R. G., 8 Fisher
 Blanchard, Jno. H.
 Coleman, W. S.
 †Dorr, Chas. C.
 †Dow, Chas. C. (Large)
 †Frost, E. H., 270 Central av
 Langley, Currier W.
 Moulton, Otis E.
 Palmer, Orrin
 Ramsdell, Alvah T.
 †Shaw, H. M., 14 Hough
 †Stewart, B. D., 14 First
 Tibbetts, Jno. F.
 Twombly & Son
 Webster, Geo. A.
 Wlggin, Orlando R.
FARMINGTON—†Copp, F. R.
FRANKLIN—Babbitt, C. M. (Large)
 Drake, G. W.
 Dresser, Jno. W.
 Felch, Fred. A.
 Kimball, Benj. F.
 Norwell, Jas. C.
 †Page, A. W.
 Prestcott, Geo. F.
 Putney, Nelsou J.
GOFFSTOWN—†Dodge & Barnard (Large)
HILLSBORO—Perry, Cyrus W.
 Ward, Walter
HILLSBORO BRIDGE—Annis, Leon D.
 Rumrill, Peter H. & Son
KEENE—Burham, F. K., 66 Mechanic
 Carroll, R. F. (Brick), 372 Elm
 Dodge, E. B. & Sons
 †Ellis, Calvin H. (Large)
 †Gordon, Geo. A., 64 Beaver
 Poole, Geo. C.
 †Purcell, Henry, Railroad st
 †Whit, C. M., Leverett sq
LACONIA—†Davis, A. L.
 *Guay & Wallace
 †Jameson, Joseph
 †Marcean, Gideon
 *Stone, Harvey H.
 *Stone, H. S.
 †Thompson, Carl B.
 †Tucker, Wm. H.
LAKEPORT—†Meador, John M.
 Merrill, Geo. D.
 Smith, Wm. D.
LANCASTER—Sherwood, W. H.
 Simonds, E. E.
 †Smith, John H.
 Stebbins, Jas. A.
LEBANON—Phelps, H. F.
LITTLETON—Bishop, Henry D.
 Fogg, E. O.
 Pennock, Ira F.
MANCHESTER—Bessette, Moise
 Brendle, Frank J.
 †Brinnelle & Co., 150 Amory
 †Buuton & Beruad, 44 N Main
 Burton, J. F. (Stone), 22½ Concord
 †Colburn, C. H., 323 Laurel
 Demers, Jos. C.
 Finnerty, Thos.
 Goings, F. M., 45 Falls av
 Harvey, H. W. (Stone), 1458 Elm
 †Head & Dowst Co. (Large)
 Laflamme, Frank X.
 Landry, Wm. G. (Stone), 390 Cedar
 Lemire, Napoleon
 Lodge, Jno. B.
 Manchester Real Estate & Mfg. Co.
 Marston, Geo. H., 441 Main
 †Maynard, John H. (Large)
 †Mead, Mason & Co. (Large)
 Mendell, J. H. & Co., 1276 Elm
 Paige, Nelson W.
 †Piper, H. A., 112 Manchester
 Provost, F. T. & Co., 21 Amory
 Read, Geo. L.
 Rooper, Walter L.
 †Seward, Jno. F., 27 Warren
 Stuart, Z. B.
 †Veasey, E. B., 383 Coucord
 Whittemore, Cyrus
 †Wilson, Jno. K.
 †Wilson, Wm. C.
MILFORD—Johnson, Samuel E.
 Josselyn & Goodale
 Winters, Thomas

NASHUA—Atwood, Henry O.
 †Chagnon, Alphonse, 103 Ash
 Cone & Mailhot, 9 Clinton
 †Erb, W. M. & Co.
 Gibson, E. J., 56 Lake
 †Holt, Duane F. & Son, 282 Main
 Holt, Highland A.
 †Nashua Building Co.
 Osgood Construction Co.
 †Sanders, James A., 7 Union
 Sloan, John F., 9 Foundry
 Spalding, Chas. C., 34 Norton
 Tetrault, Adolph J.
 Watson, Jas. F.
 Whitcomb, Harry E.
 Willard, George A., 115 Vine

PENACOOK—Barnett, Chas. H.
 †Chandler, Wm. P.

Morrill, Henry
 Sebra, Louis J.
 †Taylor, Durgin & Sebra

PITTSFIELD—Caswell, Louis L.
 Winkley, Herbert C.

PORTSMOUTH—†Anderson & Junkins (Large)
 Chickering, Jas. E.

Cox, Geo. E.
 †Dame, Byron
 Hodgdon, W. A.
 Ireland, Wm. W.
 †Kiernan, W. F.
 McKenney, N. A. & Co.
 McNabb, E. N.
 Magraw, Chas. H.
 †Pendexter, Daniel P., 13 Hanover
 Perkins, L. M.
 Spinney, Frank A.
 †Sugden Bros, 27 Cabot
 *Trefethen, E. W.
 Truman, S. F.

ROCHESTER—Blake, Frank H.
 †Dame, John W., 20 Pine

SUNCOOK—Batchelder, Geo. F.

WHITEFIELD—Thayer, Harvey A.

WINCHESTER—Hildreth, E. C.

WOLFBOBO—Goodwin, J. F.

NEW JERSEY.

ARLINGTON—Abel, Alvah W.

Bellis, Wm. C.
 Clarkson, Jno., 584 Chestnut
 Jacobson, Jno. J., 402 Elm
 †Pierce, Cyrus A., Argyle av nr Laurel av
 Salmond Bros., 160 Midland av

ASBURY PARK—Bartholomew, S. L.

Bennet, Geo. (Brick), 1115 Munroe av, West Park

†Brenner, S. W. & Sons, Bradley Beach
 Burke, Jno.

Durrah, J. L.
 Ferris, Cyrus E.
 Kirkbride, Samuel W.
 Lippincott & Son

†Martin, Jno. W.
 Megill, Holmes, Ocean Grove
 Patterson, Wm. J.

Reid & Pearce
 †Sexton, D. W.
 Smock, B. L.
 †Steward, Jos. T., Bradley Beach

White, H. D. & Sons

ATLANTIC CITY—Adams & Taylor

Andrews, Walter H.
 Balestrieri, R. & Co.
 Barker, Charles I.
 Beaumont, Wilbert
 Berry, Jno. W.
 Bowen, Jno. W.
 Bowen Bros.
 Buckley, Elwood (Brick), 110 N Congress
 Conover, Joel S.
 Conover, Josiah
 Cramer, Augustus
 Creighton, J. H.
 Cunningham, F. W.
 Doyle, Jas. R.
 Goff, Garnett T.
 Hampton Bros.
 Headley, Samuel H.
 Higbee, Wilbert S.
 Horner, Chas. F.
 Johnson, David C.
 Knauer & Co.
 Kohl, Chas. R. & Son
 Lee, Edward S. (Brick), 135 S Penna. av
 Maginnis, Jno. W. R.
 Marcus, Andrew
 Mathis, Hiram
 Mathis, Job & Son
 Miller, Augustus R.
 †Moore, Alfred, 2306 Arctic av
 Murthland, C. G.
 Smith, Elsworth E.
 †Smith, Wm. H., 13 States av

Steelman, Jas. E.
 Stiles, Arthur H. (Brick), 116 N Georgia av
 Turner, Jno. F. (Brick), 20 S Indiana av
 †Young, Nicholas W., 13 S Ohio av

BAYONNE—Bayonne Building Co., 14 E 31st

Bernhardt, V., 31 W 18th
 Brady Bros.
 Buell, Berton D.

†Bull, John & Sons (Large), 10 W 13th
 †Bunn, Jno. W., 19 W 43d & 20 W 44th

Cogan, Jas. J.
 Colling, Wm., 133 W 25th
 Conk, Anthony, 36 E 25th
 Ford & Yates

†Hannon, Jas. (Large)
 †Herbert, T., 9 E 15th
 Hockstein, Jos., 13 W 23d

Lipman, Meyer
 Napelbaum, J.
 O'Leary, J. & Son
 Pharo, J. Anderson, Av D n 33d

Southern, Geo.
 Stringham, M. V.
 Tocci, Nicholas, 1048 Boul
 †Watters, W. H. (Large), 627 Av D

White, Michael, 7 North
 Winters, H. W., 476 Av E

BELLEVIEW—Becker, Jos.

Dickerson, R. E.
 Kelisall, Jas.
 La Faucherie, Jno. C.

Marion, G.
 Mellis, Daniel
 Risivocca, Luigi
 Salmon, Wm.

Van Riper, Theo. S.

BLOOMFIELD—Ainiar, L. Jerome

Ashley, Herbert S.
 Bitterle, Alfred, Hendricks pl
 Callin & Peters, 19 Baldwin
 Cokefair & Cadmus

Crane, Jno. M.

Day, Robt., 265 Broad

Delp & Shuboy
 Doremus, Andrew Co., Walnut ter
 Fredericks, Chas.

Garner, Samuel
 Griffith & Moore, 41 Orchard
 Hedden Construction Co.

Jacobus, Israel
 Jacobus, Richard D., 213 Ashland av
 Raenisch, Emil E.

Schofield, Geo. H.

Sempier, Jno.

Vreeland, L. O. & J. R.

BLOOMINGDALE—Mead, H. W.

Tintle, James

BOONTON—Blowers, Ezra

Carson, Jno.
 Hopler & Grimes

Miller, E. S.

Scott Building Co.

Van Ness, Josiah

BORDENTOWN—†Herbert, Thomas

†Higgins, Jos. W.

BOUND BROOK—McNab, Jno.

McNabb, Jno. & Chas.

Miller, Jas. F.

Miller, J. Theodore

Moorecraft, Wm.

Stryker, Geo.

BRIDGETON—†Bacon, Smith

Conover, Albert

Elwell, Hy. C.

Lupton, Alfred H.

Maier & Baines

Pierce, Wm. H.

†Sharp, Leander

Williams, Mark H.

BURLINGTON—Inglin, Alfred, 218 Jones av

Keple, Atwood

†Lippincott, J. D., 165 W Broad

Norcross, J. J., 450 Locust av

Williams, Harry H.

BUTLER—Gormley, Chas.

Shipple, Jno.

Sisco, Jno. F.

CAMDEN—Bachmann, Geo., 19 N 30th

Baker, Omar N., 804 S 5th

Barcklow & Fulton, 506 Cherry

Brown, Lewis W., 19 George

Budney, Hy. A. & Co., 757 Ferry av

Coles, C. B., & Sons Co., Front & Kaighn av

†Cornelius, Fredk., 835 N 6th

†Cox, Chas. W., 902 Cooper

Day, Geo. W., 208 Mt. Vernon

†Day, Wm. H. (Large), 517 N 6th

Draper, Jas. W., 436 Haddon av

Dunphey, B. Frank, 1010 S 5th

Foulkes, Harry L., 516 Line

Fraizer, Wm. L., 2717 High

Glover, Chas. W., 130 Erie

Harden, Frank J., 961 S 9th

†Heater, Frank, 329 Atlantic

Heisler, Peirce, 713 Elm

Henry, Wm. H., 2057 Federal

Hinchman, Hy. G., 6 S 3d,

†Hosier, Wm. R., 105 N 25th

Johnson, Chas., 26 N 5th

Kirkbride & Janney

Mansfield, Harry, 3415 Federal

May, W. Irwin

Price, Chas. E., 665 N 36th

Reed & Co.

Schaal, Robert, 2801 Wayne av

†Severns, Wm., 2801 Wayne av

Sharp, Harry C., 410 Main

Shuster, Chas. H., 29 1-2 Market

†Sweeten, B. F. & Son, Cooper & Dela-ware

†Turner & Stewart (Large), 828 Bway

†Welsh, Jno. J., 531 Line

Winter & Harden, 961 S 9th

CAPE MAY—†Cassaday, Wm. F.

Hall, Lafayette M.

Hanes, Jos. H.

†Hoffman, Reuben S.

Sickles, J. Edward

†York Bros.

CARLSTADT—Kastner & Semper

Rasmus, John N.

Ruezinsky, Harry

CRANFORD—Currie, D. B.

Kretel, Deldrich

Loveland, Lyman J.

†Mendell, W. W.

Moore, Jas. G.

Teichman, Carl

DOVER—†Allen & Palmer

Fanning, Thos.

Gies, Frank J.

Hiller & Egbert

Shoemaker, Abram L.

†Wilcox, Nathaniel B.

EAST NEWARK—Hanna, William

McGlennon, Patrick

Murphy, M., & Son

EAST ORANGE—Allen, Harris W.

Allen & Cyphers

Ball, Robert M.

Barradale, Jas. G., 251 Elmwood av

Bitterle, Alfred

Bonnell, N., 12 Steuben

Brown, Jos. M.

Carter, Azariah H., 373 William

Coryell, Jno. & Sons

Cowell, Channcey E., 10 Academy

Coyne & Condit

Curtis Bros., 20 Sterling

Cyphers, L. W.

*Doremus, E. & Co., 174 Main

Grobert, Hy.

Hickson, Wm. T.

†Hunmer, Jas. A.

James, Wm. T.

Kelly & Boland

Kennah, Wm. C.

Lee, Jos., 46 Meadow

Leslie, Frank

McDermott, Robert

Maurer, Fredk., 28 N Grove

Mayes, Chas. F. & Son, 61 Greenwood av

Menzel & Kleiffus

Mills, Jno B.

Moore, David F.

Moore, David E., 7 Charles

Patterson, Stephen S., 87 Sussex av

Pring Co.

Richardson, Chas. W.

When writing to firms
 whose names appear
 in this book please
 mention

**HENDRICKS'
 COMMERCIAL
 REGISTER.**

Scherrer, Louis P.
 Sanger, Chas. H. & Bro.
 Stewart & Co., 500 Main
 Struck & Co., 20 R. R. pl
 Tobin, Richard L.
 Tucker, Geo. H.
 Van Horn, Wm. T.
 Walters, Geo. H.
 Weber, Frank F., 482 Main
ELIZABETH—Applegate's, Jno. K. Sons, 136 B'way
 Beglan, Michael, 428 Fulton
 †Bretthauer, Carl, 614 1st av
 Budd, B. Ward, 57 Jefferson av
 †Budd, Thomas B., 286 Morris av
 †Buss, Geo., Jr., 557 1st av
 †Byrnes, Michael Building Co. (Large), 430 Westfield av
 Cantwell, Timothy J., 425 Spring
 †Clifford, Wm. (Large), 360 Union av
 *Cummings, Michael & Son (Brick), 507 Meadow
 Daly, Cornelius J.
 Dippel, Daniel, 533 Franklin
 Doland, Jno. F.
 *Dow, Henry C., 449 Morris av
 *Eilbacher, Charles (Large), 32 4th
 Faughnan, Patrick
 †Fisher, Spencer L., 1101 E Grand
 Flocken, Chas., 681 Newark av
 Flynn, Wm. J., 823 Garden
 †Frederick, Chas. L. & Sons, 421 Franklin
 Friedrich, Chas. E., 450 Elizabeth av
 *Glasby, J. P. (Large), 40 Caldwell pl
 Hagerman, Jas. E., 1071 Magnolia av
 Hammer, Philip N.
 †Jensen & McCardell, 439 Franklin
 *Kerr, Alexander & Son (Large), 309 Trinity pl
 *Kirchner, Henry, 122 Smith
 Kutter & Stocker, 867 Bond
 *Lammerding & Devine, 227 Broad
 Ludwig, John J. & Co., 569 4th av
 McCloud, Wm. J. C.
 *Merrill & Faughnan, 118 Elm
 Mueller, Aug. & Son, 141 5th
 Palmer, Jacob E.
 †Pierson, Walter C., 1175 E Grand
 *Pullen, Frank, 731 South
 Sayre, E. M. & G. R.
 †Schlotterer, G. H., 622 Franklin
 *Schmieder, Frank & Son, 842 3d av
 Schneider, Louis
 Sheridan, Jno.
 †Skillen, Jno. (Large), 1205 E Broad
 *Thornton Bros., 252 B'way
 Thorpe, Silas H.
 Viscount, Thos.
 †Warren, James W. (Large), 261 W Grand
 †Winans, F. T., 825 Grove
ENGLEWOOD—Bogart, G. D. & Bro.
 Bried, Jas. L.
 †Demarest & Son
 Gorecki, Frank A.
 Gulnac, Jas. M.
 Jones, Owen
 †Mackenzie, R. H.
 †Ober, F. G.
 Papin, E.
 Phelps & Vanderbeck
 †Reeve, Wm. D.
 Tallman, Abram
 Vignaux & Moller
 Westervelt, John S.
FREEHOLD—†Brower, Fred'k A.
 Emmons, Conrad (Brick)
GARFIELD—Soyka, Geo.
 Troast, Jacob A.
 †Warnaar, C.
GUTTENBERG—Cade, Jno. R.
HACKENSACK—Ackerman, Aaron E.
 Birley, Geo. H.
 Bratt, Jas., Cleveland nr Kansas
 Collins, Geo.
 Delaney & Ferber
 Guthrie & Cronin
 Hoth, Jno. C., Central av nr 20th
 Long, F. R. Co.
 May, Chas. A., 1st nr Passaic
 Ridolfi & Sausone
 Voorhis, Chas. V. B.
 Voorhis, J. A.
 Yerrance, Richard
HADDONFIELD—Albright, Henry
 Capern, Wm. S.
 Holloway, Frederick
 Hoopes, John C.
HAMMONTON—Ballard, Daniel (Brick)
 Myers, Charles P.
 Strickland, E. W.
HARRISON—(See Newark)
HOBOKEN—Baack, Ernest, 204 5th
 Bradley Wm., Baldwin av
 Brenner, Louis, 121 Clinton
 Calumet Construction Co., 201 Munroe
 †Erxmeyer, Henry, 218 Park av

†Farrell, Martin & Sons, 1106 Garden
 †Foley, Michael, 1000 Hudson
 Griesbach Bros.
 Haack, Ernest
 Korbach, Wm.
 †Muller, Ehrlich & Co., 78 Madison
 O'Rourke Eng. & Const. Co., Baldwin av
 †Rath, Robert J., 259 6th
 †Runton, Jno. & Son, 10th e Clinton
 Sanford Co.
 Schultz, Julius
 Schwarzwald, J. & Sons, 15th
 Von der Lieth, W., 77 Munroe
 Waddington, R. & Son, 619 Jefferson
IRVINGTON—Gould, W. O. & Co.
 Kuschner, Adolph G.
 Meicle, Chas.
 Niebuhr, David
 Quinn, Jas.
JERSEY CITY—Bachus's, J. Sons, 142 Barthol-
 †Byrne, Patrick, 389 Montgomery di av
 †Connolly, Michael T. Co. (Large), Baldwin av
 †Cook, Chas. H., 389 Fairmount av
 Crone, A. W., 489 Central av
 Cummings, W. F. & D. J., 534 Mercer
 Curley-Pennell Cont. Co., Fulton av
 David, Henry Bldg Co., 686 West Side av
 †Delatash, Henry Co., 526 Newark av
 †Dittmar, A. J. & Son, 261 12th
 Dougherty & O'Keefe, 16 Elliot pl
 Drake, Jno. M., 772 West Side av
 Dunn, Jno. J., 748 West Side av
 Eichman, Robert W., 442 York
 Fallon, Thos. & Son
 Gavin & Doris, 269 Bergen av
 Goodman, L., 160 Montgomery
 Hahn, Henry, 247 Summit av
 Hammarquist, O. A. & Son, 362 6th
 Hanley, Chas. E.
 Henry & McGivney, 15 Exchange pl
 Holmes & Cogan, 96 Garfield av
 Hudson Const. Co., 641 Grove
 Jersey City Building & Cont. Co., 586 New-
 ark av
 †Jewkes, Jos. & Sons (Large), 676 Montgy
 Kretzmer Bros., 223 New York av
 Lena, P., 20 Centre
 Leshner & Wagner
 Lothrop, Jno. M.
 McDonough, Stephen, 265 Bergen av
 Mahoney, Thos., 196 Morgan
 Melboro, Rufus
 Nelson, Jno., 12 Park
 Niblett, Henry E. & Sons, 2 Wayne
 Peoples Const. Co., Communlpaw av
 Pickell, Geo. J., 521 Com'paw av
 Piper, Chas. R., 210 Clerk
 Robertson, Wm. & Son, 15 Exchange pl
 Rode Bros., 153 Garfield av
 Rose, Geo. C., 54 Hancock av
 Rowland, J. T. & Son, 197 1st
 †Shanley, B. M. & J. F. Co., 26 Exch pl
 Shedden & Simms, 46 Prescott
 Smith, P. S. Co., 813 West Side av
 Stillman, F. M. Co., 26 Exch pl
 TeHer, W. D., 340 Sip. av
 Tierney & Connolly Const. Co., 226 Pavonia av
 Tucker & Stonier, 23 Gregory
 Tumulty Bros., 59 Brunswick
 Wells, Geo. H. & Son
 †Wheelihan, Jas. F., 767 Montgomery
KEARNY—Carruthers, Jno.
 Connelly, P. J. Co.
 Crookall, Henry
 Enstice Bros.
 Mackie, Frank A.
 Nairn, Wm. Co.
 Smedberg, Alfred
 Young, Robert & Son
 Zeff, Zetho E.
KEYPORT—Davison, G. L.
 Young, Geo. N.
LAKEWOOD—†Applegate, Howard
 Hoff, Jos. B.
 Hyde, Walter C.
 Irons & Tappin
 Johnson, Ellwood
 Newman, W. Preston
 Peters, Jno. B.
 †Shuc, A. W.
LAMBERTVILLE—Arnett, Geo. W.
 Parker, Fred. R.
LONG BRANCH—*Alexander, W. H. Bros.
 Baxter, Geo. W.
 Brehm & Schulthorp
 Cloughley, Jas. & Son
 Conk, Wm.
 †Culberly, Isaac M.
 De Waltearss, W. M. & Son
 Finn, Jos. & Co.
 Hyer & Wright
 Potter, J. C.
 Sherman, Hiram M.
 Stanton, Horace

Weber, August
 Wood & Patton
 †Woolley & Burchell
MADISON—*Corbett, Jno. V. (Stone & Brick)
 Corbett & Clark
 Joyce, Thos. J.
 Kyne, Wm. E.
 Stull & Philower
MILLBURN—Carter, E. L.
 Wolf-Jilson-Douglas Co.
MILLVILLE—Carroll, Nelson F.
 †Goodwin, Eugene B. (Large)
 Sheppard, Seeley F.
MONTCLAIR—Bescherer, Jacob S., 4 Montague
 Bettison, Harry, 50 Greenwood av pl
 Boxall & Sigler, 18 Montague pl
 †Carlson, Jno. S. & L. Co., Greenwood av c
 Clark, Allison P., Jr. Walnut
 Courter, J., 95 Forest
 Courter, John R., 4 Friendship pl
 Crawford Co., The
 Dodd, E. Forrest, 115 Walnut
 Enarson, Gustaf
 *Feeney, Owen, 179 Valley rd
 Fusco, D.
 Gibbs, Fred. W.
 Gibson & Collins
 Greener, Alfred, 96 Church
 Hineck, Ernest C.
 Jacobus, Wm. B.
 Kent, John H.
 McNamara & Higgins
 Manuel, John, 110 Glenridge av
 Marley, F. J.
 Meuser & Thieringer
 Nelson, Nels. P.
 O'Neil, Jas., 161 Claremont av
 †O'Neil, Jno. F., 68 Orange rd
 Paxton, Jesse, 23 Maple pl
 Picken, Jno.
 Ring, Edw. D.
 Schill & Young
 *Sigler, Theo., Cliffside av
 Sims, Benj. G., Mountainview pl
 Terhune, Peter, Valley rd
 Wilkstrom, Augusta
 Wikstrom, Willie
MORRISTOWN—Allen, Geo. T.
 Barkman, W. F.
 Berry, Enoch
 Coe, Mitchell Co.
 Collins, Jno. D.
 Compton, David M.
 Daiglish, Robert
 De Coster & Mills
 Dempsey & Cooney
 Gordon, Geo. R.
 Hays Bros.
 Lindsley, Chas. R.
 Marinaro & Tremallo
 New Jersey Eng. & Const. Co.
 Reeve & Burr
 Smith, Hosmer P.
 Sturgis Bros.
 Wilday, David H.
 Wilson & Griffith
MOUNT HOLLY—Couples, E. D.
 †Esham, E. W.
 Gale, W. S.
 Howell, Frank P.
NEWARK—Allen, Wm. H., 80 Murray
 Ball, Caleb S., 68 Burnett
 †Becker, L. C. & Bro., 12th
 Berlin Const. Co., 22 Clinton
 Bingham, Wm. K., 395 Mulberry
 Brown, Geo. & Co., 270 Passaic
 Burns, Jas. M.
 Cadmus, James, 450 Summer av
 Callan, Jno., 70 S 11th
 Carter, A. P., 344 7th av
 Christiansen, Wm. A., 14 Fairview av
 *Clark's, A. H. Sons, 45 Clinton
 Collyer & Coddington, 12 Hedden pl
 *Conklin, J. Allen, 169 N 3d
 *Connolly, W. H., 137 S 7th
 Corning, Edw. Co., Front
 Coyle, Wm. H., 313 Cleveland av
 Crowder, A. J., 212 N 9th
 *Cullen, W. A., 262 N 5th
 Day, Charles T. & Co., 618 N 7th
 *Dermoddy, Thos. H., 165 Halsey
 *Dey & Sutphen, 14 Herbert pl
 *Dickson, Henry (General), 22 Clinton
 Donahue, A. J., 231 N 4th
 †Doremus, H. M. Co., 79 Orange
 Drake & Stratton Co., 315 Market
 Dreher, Richard, 27 Peshine av
 Murphy, S. F., 162 Oliver
 Eitel, Fred., 146 Brill
 †Enstice Bros., 45 Clinton
 *Fatzler, F. & Co., 558 S 10th
 †Fredericks, Geo., 168 Parker
 Garabrants, A. J., 24 Nichols
 Gegenheimer, Philip, 290 Camden

Gibson, Theodore G., 75 New
 Gould, Daniel E., 152 Badger av
 *Harris, Jas. P., 663 Mt Prospect av
 *Harrison Cons. Co. (Large), 745 Broad
 †Hedden, Charles M., 273 Halsey
 Hedden Construction Co., 8 Clinton
 *Isetts, Walter E., 16 N 13th
 *Johnson, Horace C., 414 Washington
 Johnson, Samuel P., 43 Camp
 †Kilgus, Fred, 13 S 6th
 Kitchin, Asher W., 107 Summit
 †Lanning, Jas. W. & Son, 118 Market
 Laughlin, Frank P., 152 New York av
 *Lockhart, Wm., 193 S 11th
 Loughlin, David & Bro.
 Lyons, Wm. Co., 876 Mt. Prospect av
 *McLaughlin, T. J. & Bro., 217 Warren
 MacDougall, W. S., 44 Gould av
 Maier, Christian, 389 S 19th
 Merrill, Geo. M., 27 Wright
 Midland Cont. Co., Union bldg
 *Miller & Sons Co., 33 S 13th
 Milmo, Alexander
 Mulcahy, David B., 68 High
 †Nicklas, Geo., 54 Bragaw av
 †Oakley, E. I., 18 Walnut
 †Obner & Reichert, 75 N 14th
 Oliver & Curren, 741 Summer av
 Orben & Niblo, 784 Broad
 *Oschwald, Joseph (Large), 118 Market
 Otto, Paul W., 779 Hunterdon
 Parker, Lewis Bldg Const. Co., Union bldg
 †Parsons, Edward, 131 N J R R av
 Pope, Peter F., 537 N 5th
 †Priesing, Gustave W., 192 Market
 Roh, Robert, 308 S 7th
 Roll, Charles W., 79 Bleecker
 Schaefer, Charles, 118 Bruce
 Schnieder, Herman C.
 Schoner, Edw. D., 75 Green
 *Schubert, J. C., 37 Beacon
 *Sharwell, William G. & Co., 320 N 6th
 Shaw, Jas. S., 75 Chestnut
 Skellenger, P. H. & Co., 514 Warren
 †Terhune, F. A., 668 Mt Prospect av
 Thieme, Adam, 360 Badger av
 Trautwein's, Geo. Son, 75 19th av
 Trivett & Walters Co., 7 Bond
 Tromans, Alfred, 89 Brill
 Turner Const. Co., McWhorter
 Tunstead, George S., 222 Norfolk
 *Vanderhoff, Peter & Sons Co. (Large), 285
 Broad
 †Varley, George & Sons, 29 Hudson
 †Vliet, Jno. W., 85 Academy
 Voorhis, Geo., 172 Parker
 *Waldron, Edward M. & Co. (Large), Cabl
 Wilkinson, Louis S., 206 Newark net
 Willetts, Enos, 458 Jelliff av
 Winterbottom, Theo. L., 909 Clifton av
 Winterbottom & Van Houten, 148 N J R R
 Wolf, Stewart & Co., 204 Waverly av
 Woothouse, Jas., 257 Washington av
 Zusi, Fred, J.
 Zwigard & Schroverer, 524 Bergen
NEW BRUNSWICK—Board, Lewis, 126 Easton
 Brower, Jos. F. av
 *Hendricks, John & Sons, 263 Seaman
 Hendricks, Peter H. & Son, 288 Redmond
 †Holman, J. & T., 180 Townsend
 †Manly, Andrew T., 12 Easton av
 *Moore, Thos., 177 Hamilton
 Moran, Patrick J.
 Oliver, H. V. Cont. Co.
 Riddle, Thos. H.
 †Rule, George B., 71 John
 †Sylvester, Chas. C., 177 Redmond
 †Van Nortwick, Wm. B., 77 Neilson
 *Van Sickle, Wm. H., Jr.
NEWTON—O'Donnell & McManiman
 †Walker, Geo. A. (Large)
NUTLEY—Bross & Keyser
 Carter, Chas. H.
 Cueman, A. & S.
 Mutch, Jno.
 Stager, Arthur
 Wieman, Jno.
OCEAN GROVE—†Dey, Jno. M., 137 Main
 Jeffrey, Jno. E.
 Moore & Hulsart
ORANGE—†Attridge, Thomas, 18 N Centre
 †Berryman, John, 7 Alder pl
 Brennan & Finnegan
 Carhart, Henneil, 26 Stetson, O. V.
 Clark, Wm. W.
 Connors & Flstin
 Coyne, Chas. F., 132 Day
 Davls, John L., 8 Freeman
 Dodd, Chas. E. Co., 249 Main
 Edwards, Wm. F. & Co.
 Everett, John B., 11 Elm
 Finneran, Bernard, Jr.
 Fredericks, Albert

Freye & Porter
 Glassner, Jas. F.
 Hoffman, J. A. & Sons
 Kotze, Frank C.
 Lightholder, John & Son, 324 Main
 †McCloskey, Charles A., 87 Lakeside av
 Meeker, C. B., 50 Mechanic
 Morlock, Sebastian, 19 N Jefferson
 Neil, Chas., 94 Watchung av
 †Oakley & Roberts, 211 White
 O'Connor, Jas. & Son, 68 Central pl
 Pearce, George, 203 Tremont av
 †Preiss & Co., 127 Essex av
 Sickler & Vreeland, 200 Scotland
 Soveral, Howard S.
 Thatcher, Norman H., 164 Alden
 White, Edward, 146 Day
PALMYRA—Headington, Wm.
 Shade, Jno. W.
 Shanner & Miller
 Sherman, Stewart L.
 Wallace, Samuel C.
PASSAIC—Altieri, Michael A.
 Baker, Wm.
 Boon, Meindert, 164 Jackson
 Bush, Hubert, 90 Lincoln
 Coman, M. J., 30 Bloomfield av
 De Vries, Danl., 229 Hope av
 Hetteiman, Harry A., 237 Summer
 Kanter, Abraham
 Kevitt, Leonard
 Kevitt, Edward N. Co.
 †Kulier, Nathan, 44 Quincy
 Maybury, Jas. & Son
 Roosman Bros., Highland av
 Skvaria, Jno.
 Swenson Bros., 243 Main av
 Totten, Albert, 16 Academy
 Union Bldg. & Construction Co., 237 Main
PATERSON—Adshead's, Geo. Sons, 158 Van
 †Atkinson, Jno., 194 17th av Houten
 *Bailey, Wm. H., 128 Vreeland av
 Becker, Chas., 260 Atlantic
 Blauvelt, Augustus, 150 Governor
 Bosland, Martin, 145 N 1st
 *Braen, Frank, 187 N 1st
 †Brandes, Lambert, 131 E 16th
 Breen, Frank, 223 N 6th
 Breen, Leonard Building Co., 45 Lowe
 Crandall, Nelson F., 777 E 19th
 †DeRonde Bros., 21 Hopper
 †Dickinson, Andrew & Co., 82 Goodwin
 †Eelman, John, 859 Market
 †Ferguson, Jno. W. Co., United Bank bldg
 Fredericki, Antonio
 †Friesema, Henry, 349 Madison av
 †Gardenier, Jno., 219 Water
 Garlick, Jephtha, 202 12th av
 Gatlief, Louis, 97 Market
 Gery, Jno., 60 Montgomery
 *Gleek, Albert, 63 Garfield av
 Globe, C. W., 73 Franklin
 Goodwin, Wm.
 †Groves, Samuel, 11 Paterson
 †Gutherson, W. T., 103 Goodwin
 †Hartley, Jno. S., ft of Van Houten
 †Henry, David Building Co., Main
 Holtsma, Peter, 257 E 23d
 Holster, Tunis, 26 E 20th
 Holtsma, Peter, 257 E 23d
 *Hook, Abel, 40 Belle av
 *Houman, John, 37 Clark
 †Jackson, Geo., 1057 E 19th
 Jacobus, Chas. G., 525 Totowa
 †Jersey, Theodore, 156 12th av
 Johnson, Andrew, 139 E Main
 †Kavanaugh, Edw. A., 53 Cortland
 †Kay, James E., 95 Haledon av
 †Keil, Jos., 261 Marshall
 Keliher, Hugh, 141 Martin
 Knott, Jacob J., Sr., 219 Clinton
 †McKiernan & Bergin, First National Bank
 †Mesereau, Chas. H., Colt bldg
 †Moshier, Stephen H., 94 Albion av
 Murray, Francis P. & Son, 109 Bond
 Peyer, Jacob, 25 N 6th
 *Pittet, Felix G., 555 River
 *Platt, Wm. L. Const. Co., Norwood bldg
 †Prall, Leonard W., 3 Jane
 *Purdy, Benj., 258 Governor
 *Purdy, Hugh, 125 W 26th
 †Quackenbush, David E., 11 Crooks av
 Quigley, Jno. J., 634 Main
 Rhind Bldg Co., 215 Paterson
 *Rhoda, John, 249 Edmund
 Riley, Jos., 151 Van Houten
 Rooney, Jos. J.
 Rooney, m. J.
 Schaub, August, 51 Goodwin
 †Schwarz, Henry Bldg Co., 336 Getty av
 Sikkelee Bros., 917 Madison
 Stam, Peter, 146 N 7th

Strait, Warren N., 130 Marion
 Tanis, Jno., 202 N 1st
 *Tanis, Nicholas, York av c Lafayette
 Thompson, Stephen, 998 E 24th
 Tiddens, Jacob, 67 Keen
 Van Bulten, Jno.
 Van Den Bree, Arthur
 Van Horn, Jas. A., 162 12th av
 †Van Houten, Adrian G., 130 N Main
 †Van Kirk, P. S. Co., Fulton & Erie R R
 Van Ness, Jas. S. & Son
 Van Ostenbredge Bros., 278 6th av
 Van Wyck & Kievit, 128 E Holsman
 Veeustra, Conrad
 Verduin, Abraham, 138 E Holsman
 Vreeland, Dayton
 Weir, Jas. H., 73 Crooks av
 Zeliff, Daniel P.
PERTH AMBOY—*Chrntensen, C. C.
 Christenson, Fred.
 Crouse Const. Co.
 Diamond, Tube
 Dinesen, M. J.
 Gowney, James
 Henderson Bros.
 Hoagland, Abraham & Son
 Jost, Gustave
 Kaas, Peter A.
 Koyen, Emil
 Koyen, Jens P.
 Momberg, Martin
 Ostergaard, Iver C.
 Peterson, Peter
 Seyler & Welker
 Smith, Annus
 Woglum, Jas. H.
PHILLISBURG—†Laubach, Casper (Large)
PLAINFIELD—†Abbott, John, 413 W Front
 Apgar, Walter
 Beck, Louis
 †Bohl, Wm. H., 57 Grandview av, N P
 †Brokaw, Wm., 661 W Front
 Caln, Bryant R., 17 Grandview av, N P
 Dawie, Jas. P.
 Gulick, Elmer C.
 Hammond, Leander W., 79 Manning av, N P
 Hansen, Herman, 221 E Front
 Harsell, Jno. R.
 Hartfelder, Geo.
 Hulbert, Ira G., 1136 W Front
 Kirch, Wm. H., 66 Duer, N P
 Laury & Daudt
 Manning, Jas. C.
 Moore, Oscar A.
 Mundy, Jno. W., 43 Summit av, N. P.
 Pangborn, Wm. H., 57 Chatham, N. P.
 Ramshaw, Jno. W. H.
 Smith, Wm. C., 43 Grandview av, N. P.
 Speer, Jno. H. B.
 Tallamy, Wm.
 Tallamy, B. F. & Bro.
 Travell, Warren B.
 Van Arsdale, Richard B.
 Wearren, Thos. & Sons
 Wilson, Chas. M., 206 W 6th
 Wyman, Haberle, 309 W 4th
PLEASANTVILLE—Adams, Chas. S.
 Adams, Winifield
 Lafferty & Turpin
PRINCETON—Gill, Jno. P.
 Golden, Jno. H.
 Mershon, E. B.
 Stillwell, S. H.
RAHWAY—Ayes, Frederick
 Heath, Geo. W.
 Muddell, David I.
 Voorhies, David W.
 †Westervelt, Wm.
RARITAN—†Dilts, Asa R.
 *Richards Bros. (Bridge Masonry)
RED BANK—Davis, O. E.
 †Gaunt, Samuel M.
 Scott & Scott
RUTHERFORD—Ellis, Chas. B., Jr.
 Gunther, Franz
 †Hackett, Augustus P.
SALEM—†Bell, W. W. & Co. (Planing Mill)
 †Dunham, James E.
SOMERVILLE—Anderson, Mary R.
 Barras & Allen
 Connors, Wm.
 Gunzelman, Fred.
 †Perrine & Wagoner
SOUTH AMBOY—Munday, Furman W.
 Munday, Oscar M.
SOUTH ORANGE—Barrett, Jno.
 Becker, Henry & Son
 Halsey, I. Whitney
 Reeve, Wm. W.
 Shiels, Archibald
 Van Iderstine & Odell, 11 1st
 Whitthun, Jno. H.
 Young, Peter Y.

SUMMIT—Cain, Isaac S.

Campbell, G. W.
 Chandier, A. B.
 Hughes, John W.
 Jilson & Faulkenberg
 Lum & Shipman
 Nelson, Frank A.
 Owens, James G.
 Post, Wm. S.
 Reeve, W. A. G.
 Smith, Wm. H.
 Wright, Seaman L.

TOMS RIVER—Harris, A. Judson**TOWN OF UNION—(P. O. Weehawken)**

De Riso & Rena
 Guenther Frank C.
 Walker, Wm.

TRENTON—Anclien, Chas. D., 158 Passaic

*Barlow, J., 130 W Hanover
 *Barnhart, J. K. & Son, 626 Perry
 *Benson, G. E., 220 Butler
 *Case, A. J., 249 Jackson
 Clayton, I. H., 264 Bellevue av
 *Corrigan, Patrick, 289 Bellevue
 †Daft & Cotter, 5 2d
 †Diedrich, H. J., 19 Grant av
 †Gibbs, Wesley, 1651 S Broad
 Harrold & Hughes
 Harrop, Jos. J., 145 Brown
 *Hooper, Jno. W., 439 E State
 †Johnson, Edw'd, 36 Sheridan av
 †Johnston, R. S., 312 S Broad
 †Kafer, Chas. W., 115 S Stockton
 †Launing, J. W. (Large), 314 N Broad
 *Lawton, Lewis & Son, Broad St. B'k bldg
 †McIntire, C. H., 417 N Montgomery
 Martin, Jos., 220 N Warren
 *Mather, S. W., 30 S Clinton av
 †Mills, Wm., 453 Chestnut av
 †Morris, W. J. & J. H., Broad St. B'k bldg
 *Moses, M. S., 898 E State
 †Myers, Lemuel G., 320 N Willow
 †Pancoast, J. L., 112 W Front
 *Prior, Thos. H. & Son (Stone, etc.), Mulr-
 heid ab Ott

†Proctor, Jno. & Son, 53 Garfield av
 Reeger, Edward, Broad & Jay
 Sprague, C. K.
 †Sutton, Israel S., 414 Market
 †Thines, Jno., 113 Academy
 †Voorhees, Ashley C., 592 Bruuswick av

VERONA—Jacobus & Farrand**VINELAND—Allen, William E.**

Dawson, Walter
 Foulk, Walter L.
 Nutt, Philip
 Pasquale, Jas.
 Turner, John

WASHINGTON—Deremer, James P. & Sons

†Lance, Archie

WEEHAWKEN—Callery & Murphy

Roman, Otto E.
 Tepper, Henry
 Weehawken Cont. Co.

WESTFIELD—Baker, Frank R.

Clark, Aarou B.
 Frazee, Jno. H.
 French, Chas. H.
 Howarth, Wm. F.
 Jimerson, W. S.
 Ledley, John
 Miller, Wm. H.
 Moffatt James
 Moffett, Joel
 Stiles, Archibald
 Wilcox & Pope
 †Winter, Edw. C., 44 1st
 Winters, S. D.

WEST HOBOKEN—Adriance, Franklin

Decker, Gottlieb
 Dopsloff, Gustave
 Ermeti, Achille
 Hughes, Thos. G.
 Morton, Robert
 Schall & Schreiber, 21 Browning pl, N. B.
 Schneider, Henry M., 713 De Mot

WEST LONG BRANCH—Kruge, Frank F.

Monroe, V. P.

WEST NEW YORK—(P. O. Taurus)

North Hudson Const. Co.
 Tebben, Hy.

WEST ORANGE—Banister, De Witt

Damato, A.
 De Coster, Chas. H.
 Dobbinson, Lawrence, Whittlesey nr Chestnut
 Fiemming Bros., 10 Watchung av
 Hansen, John C. & Son, 10 Joyce
 Hay, Wm. A.
 Hays, Frank B., 15 Whittlesey
 Koher, Chas. E.
 O'Connor, F. & A.

O'Rourke, John

Williams & Woodruff, 39 Park av
 Wolf-Jilson-Douglas Co.

WOODBIDGE—Coddington, Jonas

McEwen, Jos.
 Treen, John, Jr.

WOODBURY—Allen, Thompson

†Best, Joseph B.
 Garrett & Ridgway
 Henry, Albert (Brick)
 Henry, Edw. P.
 Newell, Geo. T.

NEW MEXICO.**ALAMOGORDA—Pelphrey, S. E.****ALBUQUERQUE—Anson, A. W. (Large)**

†Strong, W. W.

EAST LAS VEGAS—Sundt, M. M.

†Sundt, M. M.
 †Wallace & Davis

ROSWELL—Murray & Sanger

†Pearce & Bixby

SANTA FE—Digneo Bros.

†McHughes, J. H.
 †Windsor, A.

SILVER CITY—Black & Atkins

†Laizure, Wm.
 †Salle, Geo. J.

NEW YORK.**ALBANY—Bell, Thomas, 356 Livingston av**

†Blake, Peter, 173 1st

*Burdick, G. D., 344 Hudson av

Butler, C. R., 262 Hamilton

*Carr, Stephen A., 346 Hudson av

*Cassidy & Gallagher, 58 Osborne

Clemence Coust Co., N Lake av & Elk

Coffey, Matthew A., 220 Spruce

*Collins Bros., Bensen bldg

*Delehanty, Andrew S., 140 Colonie

De Tere, F. J., 76 Grand

Dollard-Clark Const. Co., Patroon Island

*Dyer, Jno. Jr., Albany Trust Co. bldg

†Feeney & Sheehan (Large), 160 Mont-
 gomery

Fleming, James P., 51 Morris

Fort Orange Const. Co., 112 State

Gabriel, Otto, 38 Alexander

*Gick & Sayles, 264 Hudson av

Hourigan, Jos. R., 90 Greeu

Hudson Valley Construction Co., E Lobby

*Kantrowitz, Morris, 78 State Capitol

Kearns, W. F. & Co., B'way & Tivoli

*Keeler, Peter Bldg Co. (Large), 464 Orange

*Kelly, John J., 186 Seridan av

Keyes, Charles E., 68 Beaver

Laib, John, 26 Beaver

Leonard, J. H., 462 B'way

†McCann, Patrick (Large), Dove cor Sher-
 idan av

*McCann, Wm. J., 463 B'way

McClelland & Kindt, 133 Madison av

Maas, Jno. J., 239 Sherman

*Menges, Henry, 562 Clinton av

Molitor, Jas. & Son, 645 3d

†Pattinson, Jas. W., 269 2d

*Pasquini, Attilio, Bensen bldg

Reilly, Wm. F., 52 S Hawk

Remington, Macomber Co., 25 N Pearl

Reston, Henry K., 189 Hudson av

†Ryder, M. L. Building Co., 356 State

Schneider, Jos. M., 163 Madison av

Stephens, Thos. & Sons, 275 Lark

United Cons. Co. (The), 467 B'way

†Van Patten, J. A., 352 Hamilton

Waldbillig's, F. & J., 425 1st

Washburn, Wm. E., 415 1st

White, Jas. H., 207 Elm

†Winchell, Jos. H., 19 Slingerland

Young, Henry W., 21 Philip

AMITYVILLE—Ketcham, E. & Sons

Ketcham, Milford H.

†Purdy & Ketcham

AMSTERDAM—Clemens, Chas., Caroline c

Grieme, Hy. W., 39 Bridge Division

Turner, Jno. J., 53 Union

AUBURN—Almutt, Jno. L.

Auburn Const. Co.

*Barnes, David W. & Son, 5 Wall

Brayer Bros.

†Carl, L. R.

Darrow, Chas. C.

Fenno, Edw. K.

*Furness Bros., 34 Nelson

Hopkins & Hall

Koon, E. B. & H. J.

†Talbot, Jas. L., 125 Penna av

BABYLON—Howell, Elmer W. (Large)

Rogers & Blydenburg

BATAVIA—Cummings, J. C.

Dellinger, E. J.

†Glade, Jno. (Large)

Homelius, H. W.

Howard, M. M.

†King, Asa

*Manning, John (Plasterer)

Miller, Wm. (Stone, etc.)

†Pickert, Jno.

†Savacool Bros.

*Schafer & Lochnicht (Brick & Stone)

BATH—Bradley & Dahm

Clough & McChesney

BAY SHORE—Hein, Jos.

†Homan, L. G. (Large)

†Hulse, Van Buren

†Kirkup, Chas. E.

BINGHAMTON—Badgley, A. E.

Baicom, Geo. N.

Binghamton Const. Co.

Carman, A. B.

Carrington, S. H. Co.

†Coffin, A. N., 69 Broad av

†Cosgrove, Patrick J., 241 Vestal av

†Dewey, C. F., 26 Sherman pl

†Lewis & McCallum, 22 Lewis

Mitchell, C. H.

†Mitchell & Stevens, Binghamton Sav
 Bauk bldg

†Moffatt Bros. (Large), 22 Lewis

Moore, R. H.

†Newing, Wm. J., 62 Walnut

O'Neil, Jas.

Owens, M. A.

†Shirley, A. F. & Co. (Large), 90 Chenan-
 go

†Stephens, E. P. & Son, 311 Water

Wheeler, G. B.

BROCKPORT—Cleveland, M. A. (Large)

Heinrich & Vineyard

BROOKLYN—(See New York City, Borough of

Brooklyn)

BUFFALO—Batt, Chas. A., 38 Northampton

†Baynes, Fred A., 35 Pearl

*Berrick's, Chas. Sons' (General), 1151 Main

*Brown, Thos. Contracting Co., 1135 Niagara

Burke, M. J., Prudential bldg

Burke, Wm. H. & Bro., 375 S Park av

*Carter, Geo. W. & Sons' Co., 25 Builders'
 Exchange

†Churchyard, Jos. J. (also Planing Mill),
 Conners, W. J., 448 Ohio 648 Clinton

*Crooker, B. I., 4 Builders Exchange

†Cwiklinski, Alex., 35 Lathrop

*Dark & Co., 654 Main

*Dill, Wm. H., 116 Southampton

Duchscherer, Philip, 315 Auburn av

Elliott, Geo. F., 1858 Niagara

†Feist, Jno. & Sons (also Planing Mill), 115
 Ash

Flierl, Christian, 1366 Genesee

Forback, Christian, 204 French

†Francis, Geo. F., 376 Connecticut

*Frank, Geo. E., 250 Pearl

*Frank, Peter H., 273 Richmond av

†Fromwiller, Geo., 56 Hartman pl

Geiger, Jno., 485 7th

Geis & Forsset, 53 Hawley

Gibbons, J. G. & C. L., 1069 Niagara

Gibbs, J. W., D. S. Morgan bldg

Gilbert, Edwin & Co., Chapin blk

Grill, Frank E., 16 Purdy

*Grupp, Edw'd, 51 Riley

Haas, Fred W., 574 Riley

†Hager, Edw. M. & Sons Co. (also Planing
 Mill), 141 Elm

†Haist, Edw. R., 1701 Main

†Hamm, Adam, 1228 Genesee

*Harder, Henry, 287 Northampton

Harrison, F. J., 303 2d, W Seneca

†Harty, Jno. P. Sons, 344 Niagara

*Hasselbeck, Frank, 1012 Sycamore

*Hauser, Jno., 48 Welmont pl

*Hecker, Henry, 208 Dearborn

Henrich's, Wm. Sons, 193 Spring

†Hibbard, F. W., 316 N Division

Hoelscher & Son, 24 Morton pl

Hurley, Wm. & Co., 426 Marilla

*Jochim, Peter, 220 Johnson

Klein, Philip G., 58 Johnson

†Klopp, Jno. F., 477 Norwood

*Kolkman, Edw'd, 1879 Genesee

†Lancot, H. H. & Sons, 303 Ellicott sq

*Lannen, Jno., 667 Oak

†Lehr, Jeremiah H., 52 Exchange

Leman, Geo. D., 103 Rodney av

Lenz, H. & Son, 802 Genesee

Lenz, Jno. A., 355 French

†Long, Geo. Baker (Large), Marine Bank
 Luther, Wm. M., 111 Richmond av bldg

Maltby, Geo. W. & Son, 21 Maryland

McCormack, Wm. V., 1840 Clinton

†McDonough, Charles, 734 Exchange

†Mahoney, D. J., 348 Winslow av

Metz Bros., 334 Landon

†Metz, Joseph & Sons (also Planing Mill),
 292 Elm

*Metzler, Fred, 227 Ludington

*Miller, Edw'd R., 496 Northampton
Mueller, Paul F. P., 680 Seneca
Nicola Building Co., Aldrich pl
*Niederpruem-Gibbs & Schaff Co., D. S.
Morgan bldg
†Olmsted, Wm. C., 6 Arnold
*Pullen, Alfred G., 140 Arkansas
*Quinn, Jos., 87 Virginia pl
Reimann, Catherine, 230 Elliott
*Reuling, Henry, 596 Niagara
Riemer, Adolph, 885 Clinton
Rollins, C. L., 184 S Park av
†Roos, Edw. H., 636 Linwood av
Rupp, Chas. A. Building Cous. Co., 47 E
Sailer, Jacob, 120 Seneca
*Sandell, Wm. C. & Co., 608 Linwood av
*Schaaf, Geo., 14 Builders' Exchange
*Schaefer's, H. Sons (Large), 578 Elm
*Schirmann, Frank G., 108 Sycamore
†Schultz, Geo. S., 39 Lowell pl
Scioline, F. & Co., 135 Front av
Shamo, Jos., 38 Essex
Slattery, Jas. W., 455 Pearl
†Spang, Jos. C., 535 Madison
Spring, Geo. A., 840 Richmond
†Stage, F. N., 1016 Lafayette av
†Steinmiller, Geo., 46 W Balcom
†Stokes' Bros., Brisbane bldg
†Thomas, Jno. W., 15 Duerstein
†Tilden, J. H. Co., 12 Henry
Valliquet & Neelon, 467 Pearl
Williams, Chas. Hoyt, 317 Babcock
CANANDAIGUA—Doolittle, E. W.
Hogan, R.
†Smith, Hugh M.
CASTILE—Elitsac Mfg. Co.
CASTLETON CORNERS—(See New York City,
Borough of Richmond)
CLIFTON—(See New York City, Borough of
COBLESKILL—Courtier, Stanton (Richmond)
†Murphy, W. H.
COHOES—Archibald, Andrew, Amity nr Colum-
Buchanan, Wm. D., 29 Imperial av
Dooley, Jas. J., 65 White
COLLEGE POINT—(See New York City, Borough
of Queens)
COOPERSTOWN—Houck, Lafayette
Ingalls, C. A. & Co.
CORINTH—Smith, Alon
Thomas, E. K.
CORNING—†Benger, Jno., 11 Montague av
Bradley, J. C.
Corning Building Co.
Drehmer, H. J.
Runner, D. M.
CORNWALL LANDING—Taft-Howell Co.
(Large)
CORONA—(See New York City, Borough of
CORTLAND—Beers & Warfield (Queens)
Burlingame, Ira L.
*Bush, L. S.
†Corwin, D. G.
Debarr, John
De Vail, Dell
Gooding, Sidney N.
†Keeler, J. D.
Phillips, J. R.
*Searles, E. W.
Stark, Richard
COXSACKIE—Anthony, E. S.
†Brown, Jno.
DELHI—Hine, W. T.
Hume, R. H.
McGregor, Robert
Shaw, D. C.
Woodruff, L. M.
DEPOSIT—†Babcock, E. A.
—Brokaw & Co.
Daly, Jas.
Fuller, A.
Monson, George
Phillips, J. H.
DOBBS FERRY—Martens, J. P., Ogden pl
Young, Arthur
DUNKIRK—Aldrich, B. F., 425 Swan
Hubbard, Jas.
†Kolpien, Frank L., 753 Elk
Lyon, H. P.
Richardson, E. T.
Taylor, J. A.
Thompson, L. E.
Union Builders' Co-Operative Cont. Co.
ELMHURST—(See New York City, Borough of
Queens)
ELMIRA—†Allington, Jacob & Son (Large),
Railroad av c 7th
†Allington, W. C. (Large), c Windsor av &
Blackwell, E. H., 609 W Water Grove
†Cotrell, S. H., 715 College av
†Cunningham, John, 101 South av
*Dempsey, John E., 77 Jones
†Elmira Building Co., Robinson bldg
†Evans, E. F., 367 Wallace av

Gerity, Thomas (Stone, Brick & Plasterer),
511 Baldwin
†Hathaway, Wm. W., 370 Fulton
Heller, Horatio, 811 Gay
*Hodgkins, A., 201 Penn av
Johnson, James, 711 Mathews
Langford, J., 358 W Water
†Lewis, D. W., 600 Maple av
†Neish, W. A., 710 W 2d
†Pulford, C. A. (Large), c Erie & Falck
†Shappee, Cooley D., 814 W Gray
Slocum, Albert, McHenry st
†Stowell, Charles N., 319 William
†Swan & Murray (Large), 613 Baldwin
†Thurston & Haskell, 363 State
*Tillman, John M., 853 Grove
Vanwhy, Jos. M., 313 Mt Zoar
†Williamson, J. C., 55 Sly
ELMIRA HEIGHTS—Jackson & McKay
Johnson, Chas. F.
Price, Jas. B.
Stevens, Geo. W.
EVERGREEN—(See New York City, Borough of
Queens)
FLUSHING—(See New York City, Borough of
Queens)
FORT EDWARD—Sandersprece, C. W.
†Somers, John
Stainsby, Thomas (Brick & Stone)
†Wiggs, Byron C.
FREDONIA—†Annis, Bradley
Dunkley, Harry
†Edmonds, R. (also Planing Mill)
†Harrison, E. D.
†Kimball, E.
Roth, William
†Sly & Coddington
Wilson, William
FULTON—De Forest, George
Fulton Contracting Co.
Wadsworth, Daniel E.
Woodcock & Ford
GENEVA—Dove, Wm. G. (Large)
Iroquois Const. Co.
McArthur Bros.
GLEN COVE—Burns, D. E.
GLENS FALLS—Alexander & Pepper
Finch, Prun & Co.
†Gifford & Williams
†McAuley, Frank W., 72 Sherman av
Potter, E. B.
†Shippey, F. P., 61 Uncas
GLOVERSVILLE—*Brace, A. E., 10 Temple
†Brott, H. R. (Large)
*Handy, Webster, 16 High
Hemstreet, J. E., 335 Hamilton
Henry, A. L., 10 Hamilton
Wagor, M. C., 247 Kingsboro av
†Warner, David, 69 Grand
Young, Abram
GOVERNEUR—West, J. W.
GRANVILLE—Brown, Thomas
Jones, Benj.
Norton, Alonzo
GREAT KILLS—(See New York City, Borough
of Richmond)
HEMPSTEAD—*Berg, Theo. P.
Brown, D. H., Park av
Dugan, John S., 46 Prospect
Smith, E. P., Fulton
Velsor, Henry E., 29 William
Whittemour, J. C., 274 Franklin
HERKIMER—Bates, William
†Beckwith, D. C.
Clinton-Beckwith Const. Co.
†Edwards, S. W.
†Gay, William H.
Nelson, John H. (Large)
†Wheeler, A. B.
HIGHLAND FALLS—†Muller Bros. (Large)
HOLLIS—(See New York City, Borough of
Queens)
HOOSICK FALLS—†Easton, Rising & Worden
HUDSON—†Cramer, Chas. C., 101 N 5th
†Denegar, Edmund, 35 S 5th
†Macy, F. W., 26 8th
†Miller, Levi, 33 N 5th
†Panigot, Chas. G., 533 State
†Van de Carr, Arthur, Jr., 323 Union
Weaver, Leander H., 518 Union
HUNTINGTON—Bunce & Holmes
Ireland, David S.
INWOOD—Merritt & Safford
IRVINGTON—Behrens, R.
†Buckhout, Sylvester
Burnett, Wm. E.
†Hunter, Alex. M. & Son
†Huston, Bernard
†Kiernan, Michael
Lord & Burnham Co.
†Raynor, Benj. S.
ITHACA—†Alexander, Frank G., N Aurora
†Bogart, Fred. J., E Clinton

*Campbell Bros. Co. (Brick & Stone)
†Crowley, T., 29 E Green
*Drake, Jasper (Brick), 149 N Aurora
†Driscoll Bros & Co, S Aurora st
*Edwards, Alonzo C. (Brick), 8 Linn
*Gardner, Edward T. (Brick), Marshall &
Willow av
*Gee, Reuben (Brick), 89 S Cayuga
†Lamkin, W. E., 27 E Green
*Minturn, Alexander H. (Brick), 74 N Geneva
†Oltz, S. M., 87 N Albany
†Perry, Wm. H., S Cayuga
†Randolph, Fred'k P., 30 Sears
Scott, George N.
†Smith, Charles
†Van Order, Chas. G., S Cayuga
†Wanzer, Charles, 103 N Cayuga
†Warwell, Geo. H., 13 W Mill
†Wood, A. B., 24 N Aurora
JAMAICA—(See New York City, Borough of
Queens)
JAMESTOWN—Ackroyd, Henry & Son
Anderson, A. Frank
Callahane & Van Dervoort
Holcomb, M. C.
Johnson Jonas A.
Johnson & Prather
Lawson, Andrew J.
Mahoney, Jas. F.
†Morse, C. E., 109 Winsor
Nelson Bros.
†Rogerson, D. M., 41 College
Shelberg, Lingquist & Bailey
JOHNSTOWN—†Hess, Jonah, W Main
Seaman, Jas., 303 S Perry
Simmons, P. M., 18 S Market
KREISCHERVILLE—(See New York City, Bor-
ough of Richmond)
KINGSTON—†Costello, Wm. D., 237 W Chest-
Donaldson, Thos., 128 W Piermont nut
Green, W. S., 150 Fair
†Gronemeyer, Frank, Sr., Mary's av
†Halverson, Gunder, 79 O'Neil
McCullough, Wm., 270 W Chestnut
†Mauterstock, Albert, 109 B'way
Myers, Jacob F., 88 Henry
†Osterhoudt, Peter C., 48 Clinton av
†Remus, Jno., 29 Brewster
†Van Gaasbeck, A. W., 9 Wynkoop pl
LAUREL HILL—(See New York City, Borough
of Queens)
LE ROY—†Albee, E.
Merritt, M. A.
LESTERSHIRE—Decker, F. H.
LITTLE FALLS—*Boyer, Horace M.
House, I. E.
Little, Andrew
LOCKPORT—†Blackley, Wm. J. (Large). 54
Demrow, Irving Pine
Fogle, Jno. C.
Henderson, W. W.
†Huston, Wm. E., Lincoln bldg
Lardner, Martin
Lentz, B. F.
†Markley, Thomas P., 91 Mulberry
†Nottleman, Wm. H., 567 Walnut
†O'Brien, Andrew M., 339 East av
Sherman, Edw. W.
†Stainthorpe, C. N. & Co., 126 Main
†Wille, L. C., 421 Washburn
LONG ISLAND CITY—(See New York City,
Borough of Queens)
MAMARONECK—Bellew & Merritt Co.
†Burger, George
MARINER HARBOR—(See New York City,
Borough of Richmond)
MECHANICSVILLE—Partridge, F. E.
METROPOLITAN—(See New York City, Bor-
ough of Queens)
MIDDLETOWN—†Black, G. H., 5 Bonnell
†Crane-Giles Co. (Large)
*Hadden, Geo. H., 5 Monhagen av
†Miller, Peter F., 38 Houston
†Taylor, C. Z., 7 John
Van Fleet, Wilbur, 151 W Main
Wood, Jacob, 71 Fulton
MIDDLE VILLAGE—(See New York City, Bor-
ough of Queens)
MILLERTON—†Bees & Trafford (Large)
Van Allen, St. John
MOUNT VERNON—Barbarese, A., E 4th
†Carpenter, I. T., 139 Stevens av
Durr, Sebastian, 318 Locust
†Evans, S. T., 118 Park av
Haag, J., 11 W Sidney av
Kateley, F. A., 32 E 1st
McCarten, A. J., 246 E Sidney av
Reid, J. M., 202 E 3d
†Ringrose, William B., Wakefield
†Robinson, Harry J., 149 N 4th av
Sergeant, Wm. H., 139 Franklin av
Socini, T., 12 N Bond
Weldon, Geo., 141 Franklin av
NEWARK—†Hedden, J. S.
Iroquois Const. Co.

NEW BRIGHTON—(See New York City, Borough of Richmond)

NEWBURGH—†Burhans, L. & I. L., 62 Mill

†Burton, Wm. H., 266 Water
Convery's, J. P. Sons, 134 Washington
†Crevling, Whitfield, 251 3d
Harrington, Jos. B., 416 1st
†Hilton, William H., 109 Front
McGuigan, Hugh, 102 Washn
*Sager, Wm., 15 William
*Stewart, Jas., 304 1st
†Templeton, Jas. F., 32 Chambers
Theall, William L., 82 Liberty
†Thorn, Wm. H., 238 1st
†Tweed & Woodruff, 244 Front

NEW ROCHELLE—Anderson & Peterson 276

Anthes, Henry, 52 Harrison Huguenot
Anzolut, A. & Co., Lockwood av
Daigle & Hines, 208 Huguenot
Doern, Peter, Castle pl
Kirchoff, William, Church
Levy, Samuel, 27 Morris
Mount Vernon & Inter Urban Real Estate
Const. Co., 254 Huguenot

*New, J. & Son, 24 Clinton pl
Peel, Henry, 59 Winthrop av
Pesciotta, Jack, 49 3d
Rolfson, A., 21 Beechwood av
†Switzer, W. H., Main & Echo avs
Walter, J. & A., 121 Webster av
Watson, Geo., Beauchamp

NEWTOWN—Wall, Thos., B'way nr Jackson av

NEW YORK CITY. Borough of Brooklyn.

BROOKLYN—Abbazia, Michael, 3329 N Utrecht

Abelman, Morris L., 24 Moore av
Abels & Gold, 42d

†Ackerson, T. B. Construction Co., Av H

†Akerly, Hiram A., N 4th

Andersen, And., 4209 1st av

Andersen, Anton, 100 Raymond

Anderson, A. L., 453 Bergen

Anderson, Wm. H., 101 Downing

Anderson's, Jno. D. Sons, 950a Green av

Architectural & Building Construction Co.,

Arkawy Bros., Sutter av 1377 Myrtle av

†Ashfield, F. J. (Large), 350 Fulton

†Auer, John & Sons, 957 Bway

*Auer, Wm., 730 Willoughby av

*Barnes, G. W., 881 Myrtle av

*Bason, Geo. F., 558 Lafayette

Bauer, August, 240 St. Nicholas av

†Bauer, John, 927 B'way

Beaulieu, Jos., 903 Av C, W

Beck, M. & Son, 215 Marion

Becker & Rueger, 272 Scholes

†Bedford Construction Co., 1261 Atlantic av

Bedford, Wm., 105 Meeker av

†Beer, Louis (Large), 802 B'way

Beet, John, 5521 3d av

Benson, Bernt, 280 Sackett

*Berlenbach, Frank, 15 Cedar

Berlinger, Wm., Rockaway av

Beveridge, Louis W., Ft Hamilton av c 40th

Beyer-Klamp Co., Ocean av

†Bishop, E. H. & Son (Large), 18 Halsey

Blake, Jno., 396 Grand av

*Bock & Bartz, 1607 Greene av

Bockrath & Buttelman, 1346 DeKalb av

Body, Chas., 223 DeKalb av

Bohnet, Beyer & Mazloff, Bushwick av

Bond, C. F., 733 E 18th

†Bonnlander, Nicholas, 898 B'way

Boulton, Philip G., 250 Baltic

Briley, Arthur, 549 Macon

Broderick, Edmund D., Schermerhorn

Brown, Henry J. & Son, 1534 Fulton

†Brown, Rufus H., 1357 Rogers av

*Bruckhauser, H. & Son, 130 Ellery

Buehl, Chas., 527 Humboldt

Bulkley, Washn., 98 Emerson pl

Buttelman, Robert P., 1346 DeKalb

Calder, Wm. M., Windsor pl

Calendo, V. & Sons, 60th nr 13th av

Campbell, Jas J., 284 Moffatt

Campbell, J. M., 157 Spencer

Campbell, Samuel, 121 Meserole av

Cantor, Reuben, 15 Bogert

*Carley, William A., 3d av cor 93d

Carlin, F. W. Const. Co., 307 Washington

†Carlin, P. J. Construction Co., Eastern

*Chapman, Walter E., 175 Clymer

Chatterton, Jas. M., 389 Berry

*Church & Gough, Hancock

Ciaccia, Jos., 181 Atlantic av

Cieslinski, A. J., 230 E 9th

†Clark, Wm. H., 251 Ainslie

Clarke Construction Co., Ocean av

Clarke & Stowe, 221 Greenpoint av

†Clayton, Walter F., 163 Decatur

*Cleary, Peter (Large), 235 Bainbridge

Clegg, A. M., 20th av

Cohen & Levine, 5903 15th av

Cook, D., 71 Van Sicken av

†Corbin, John R. Co. (Large), 1516 Flatbush

Cords, Chas., 548 Liberty av

*Costello, Geo. A., 271 Sumner av

†Cozine, C. G. & Co., 4241 Fulton

†Dady, Michael J. Co., 350 Fulton

*Dahl, Chas. W., 242 Chauncey

*Dalton, Peter F., 775 Bergen

Danziger, Max, Sutter av

Davidson & Son, 25 Manhattan av

Davis, Benj., Deau

Destefani, D., 16 Hicks

Detlefsen, Charles M., 6 Sullivan

Diamond, Bernard, 18 Bergen

Dickson, Robert, 208 S Oxford

*Donlon, Thos. Co., 294 Butler

Doran, Wm. F., Sheepshead Bay

Dorion, Harry, 825 Gates av

Douglas & Co., Pitkin av

Draper, Hy. C., 247 Bridge

*Dumbleton, John C., 578 Carlton av

†Eastern Construction Co., 48 Classon av

Eberle, Otto A., 10 Nassau

Ebetsch, John & Son, 712 Madison

Egan, Peter, 60th nr 12th av

†Eisenbach, George, 189 Montague

†Erickson, Fred'k, 103 Hughes

Erickson, Otto, 29 Rockaway av

Etter, N. A., 128 Kosciusko

Fallon, John, 34 Bedford av

Feldman & Maroselli, 368 Ralph av

Fels & Matthews, Gates av

†Ferguson, Robt. B. (Large), 254 Lee av

Fetner, Jos., 853 Myrtle av

Fetner & Soneblum, 895 Myrtle av

Fink, Daniel & Son, 376 Himrod

Finkelstein & Sugarman, 50th

*Fitall, John C., 142 Emerson pl

*Flynn, John J., 326 Gates av

Franz, Chas., 365 Kosciusko

†Fraser, Thos. H., Classon av

*Fredel & Polstein, 354a S 5th

Freed, Chas. A., 264 Degraw

†Fuller & O'Connor, 26 Court

Gahagan, Walter H., 189 Montague

Galitzka, H., Himrod

Gallagher, F. J., 490 Park pl

†Gallagher, Bernard & Son, 134 Bway

Galvin, John, 122 Cumberland

Ganter, Frank J., 271 Sumner av

Gariepy, A. & E., 73 Lynch

†Gately, A. L. & T. J., 114 Bedford av

*Gibbons, John, 504 Court

Gibbons Co., 316 Columbia

Gillies, Jno. Co., 137 Kent

Ginsberg, C. & Son, 476 B'way

Glaser, Benj., 472 7th av

†Godfrey, Emslie Co., 4 Court sq

Goldberg, S., 44th

Gordon, Heitzner Construction Co., Mc-

Grace, Wm. Co., 19th Donough

Grady, Wm. F., 58th nr New Utrecht av

†Grasman, H. & Sons, 405 Tompkins av

Green, M. & Co., 47th

†Greenman, W. B. (Large), 350 Fulton

Greer, Andrew H., 502 Franklin av

Grening, Paul C. Construction Co., 26 Court

*Guidone & Galardi, Jefferson av

Gundermann, Ferdinand, Jr., 445 Schenck

*Gurski, Jos., Vienna av

Halberg, O., 1233 47th

Haley & Keegan, 50 Dobbin

Hall, Albert C., 146 Cumberland

Hallam, Erastus, 326 6th

Harris, Isaac, 485 Flatbush av

†Hart, Chas., 617 Degraw

Hartnett, Jas., 1320 60th

†Hassan, Wm. S., 63d

Hearns, John, 81 Hancock

Heller, M., New Jersey av

Hellmund, Frank H., 378 Franklin av

†Heningham, Rich. E., 152 Av G

Henry, Michael E., N Y av & Kingston av

Hickey, John J., 253 8th

Hildebrand, Geo., Seigel

Hirsch, J. H., 350 Fulton

*Hodgson, Jos. B. F., 474 Sumner av

*Hoffman, Geo., E 98th

Holder, Henry, 242 Franklin av

†Holler, J. & F., 17 Kosciusko pl

Hossack Bros., Seigel

†Hough, Samuel L. (Large), 344 Roebling

Hoyt, Frank H., 83 Ashland pl

Humbert, Paul, 781 Atlantic av

Hyde, Cuyler C., 797 Hancock

Iba, Caspar & Sons, 49th

Immel, John, Himrod

Janpol, Henry, Chestnut

Jersey, F. R., 1041 Pacific

Johanson, John A., 98 Stuyvesant av

Johnsou, Chas. E., 12 St. Johns pl

†Johnson, Edw. Building Co., 49th & New

Jones, Robert, 334 Kosciusko Utrecht av

Jorgenson, J. K., 65 Kouwenhoven pl

Joyce, Wm. Mills, Av F

Jung, Fred'k, 273 Evergreen av

*Jung, William, Decatur

Kahan, Noah, Ames

*Kane, Frank J., 87 Ft Greene pl

*Kane, Jas., 28 Rapelye

*Keeler, Jno. J., 344 Sackett

Kellner & Greschler, Macon

*Kelly, F. J. & Son (Large) Congress

*Kennedy, Jno. & Son, 175 Front

Keshin, Blitstein & Co., 250 Moore

*King, Martin, 152 Division av

†Kinsey, Jno., 14th av & 73d

†Kirches, Henry (Large), 31 Crooke av

Kist, Joseph, 932 Metropolitan av

*Kleinert, Albert E., 16 Court

†Kleinert, Albert E., Havemeyer

Krahe, Chr. & Son, 7th av nr 90th

Kruger, J., 1296 Gates av

†Lamb, Albert J., 1141 Park pl

Landry & Stuart, 1263 Fulton

Lashinsky, Solomon, 600 Ralph av

†Lehrian's, Geo. Sons, 296 S 4th

Leonard, Daniel S., 735 Bergen

Levey, A., 9th av

Levy Bros., 339 4th

Levy, Leo N., 898 B'way

Levy, Louis, 5th av

†Libbey & Keese (Large), 519 Flushing av

Lineburgh, Clarence, 700 Lexington av

Loeffler, Henry, 851 Gates av

*Loerch, Ernst, 59 Nimrod

Low, John, 49 Nevins

Lowe & Yandle, 8th av

Lurie Bros., 46 Graham av

Lurie & Bloomgarten, Metropolitan av

Lusso, Hector, 89 Fulton

*McGarry, Wm. P., 236 Huron

McGrath, Edw. J., 719 Sterling pl

McKay, David, 377 Classon av

McKeever, E. J. & S. W., 367 Fulton

McKigney & McGlynn, 332 Oakland

McMurdo, Jas., 94 Downey

McQueen, Wm., 1054 Bedford av

†MacArthur, Jas., 22 Ormond pl

†MacDonald, Gordon D., 663 Franklin

MacMechan, Thos., 395 Fulton

Mack, Andrew T., 403 9th

Madeo, D. & Sons, 66th nr New Utrecht av

†Mader, Louis, 220 Vernon av

Magill, J. A., 29 Rogers av

†Magilligan, Jno. J., 56 Berkeley pl

Maguire, E. J., 1379 Dean

Maille, Jno. F., 1253 Prospect pl

*Malcom, Wm., 630 Pacific

*Maley, S. W., 189 7th

Manus, Harry S., Chauncey

Martin, Lemuel N., 1317 Fulton

Martin, W. B., 510 5th

Martin & Thompson, Rogers av

Neiderbuhl, Adams, 336 Knickerbocker av
 Nolan, Peter E., 374 Gates av
 Nordstrom, O. W., 460 Bergen
 Norton & Gorman, 303 Douglas
 O'Brien, J. F., 8 Bridge
 O'Brien, P. S., 136 B'way
 Oelkers, Geo. W., 402 Cumberland
 Olsen, Andrew, 62d
 Olsen, E., 92d
 Olsen, Peter, Fort Hamilton av
 Olson & Nielson, 1526 Av C
 O'Rourke, John H., 264 39th
 Orls, H. F., 488 Clermont av
 Otto, Martin H., Ralph
 Owen, John, 255 Skillman
 *Paladino, Joseph, 5718 New Utrecht av
 *Palmer, Chas. A., 33a Lefferts pl
 Palmer, Simon & Tegen, St. Marks av
 Palmleaf, Oscar, 258 Midwood
 Pasquini, A., DeKalb av
 Pearson, George R., 1212a 40th
 Pease & Son, 125 Myrtle av
 Peekworth, Chas. H., Robinson
 Peden, Chas. L., 505 Lex av
 Peer, Jas. W., 157 Van Buren
 Pelcyger, Frank, 150 Hart
 Perkins, George, 372 Degraw
 *Perrie, Frank & Bro., 13 Spencer
 Peters, John, 160 7th av
 Peterson, M., 42 Seeley
 Petricat, Gus, 1086 Decatur
 Phraner, Chas. A., 431 Carlton av
 Pipe, George W., 1510 Fulton
 Pitt, J. R., 1090 Coney Island av
 Polito Bros., 726 Lorimer
 Pomerantz Bros., 154 Heyward
 Pomerantz, I., Hudson av
 Pope, A. & Bros., 380 Midwood
 Potts & Partridge, 189 Montague
 *Randall, Stephen M., 41 Dobbin
 Raymond, Francis, 33 Love lane
 Renzenstein & Hoback, 774 B'way
 *Reynolds, Chas. G., New York av
 Reynolds, F. C., Sheephead Bay
 *Reynolds, Wm. H., 8 Court
 Richman & Prouse Co., Eastern Parkway
 Ries, Chas., 6 Arlington av
 *Riley, Jas., 601 Degraw
 *Rissler, Chas., 327 Irving av
 Rucker, Henry, 129 Bradford
 *Roeder, Herman, 1638 DeKalb av
 Roosen, Geo. F., Pacific
 Ross, Theo., E 19th
 Roth, Henry Building Co., Wyckoff av
 Roth & Doldinger, 194 Graham av
 *Rule, Robert, 258 Kosciusko
 *Rush, Frank H., 393 Greene av
 Rush, Myron C., 327 Franklin av
 Rustin, Jas. C. & Co., 85th
 Ryan, Daniel J., Coney Island av
 Ryan, Daniel J., 723 3d av
 Ryan, Peter J., Remsen av
 Ryan, Walter, 168 Spencer
 Ryerson, J. E., Garfield pl
 Sarrel & Landow, Stockholm
 Sawkins, John C., 2409 Church av
 Scala, V. & Co., 570 Hicks
 Schaedle, Geo. W., 144 Devoe
 Schmitt, Geo., Railroad av
 Schmitt, Philip P., 249 Cooper
 Schneider, Christian, 122 Debevoise
 Schulze, Frank, Neptune av
 Schulze, Frank, Ocean av
 Schurjer, K., 242 St. Nicholas av
 *Seaman, L. W., Jr. & Son, 133 Grand av
 Seerman, B., Eastern Parkway
 Segalowitz, I., 336 Sackman
 Serota Bros., 1907 Douglas
 Serota, H., 5321 5th av
 Shapiro & Goodman, 732 B'way
 Shaw, A. B., 350 Rutland rd
 Sheehan, Jno. C. & Co., 2004 Atlantic av
 Sherline, Jos., Hamburg av
 Simonella & Pizzo, 12 Conselyea
 Simpson, William, 14 Emerson pl
 Sinclair & Son, 535 Vanderbilt av
 *Skelton, Christ. P., 1004 Flatbush av
 Slater & Cohn, Washington av
 Sley, Jas., 3d av nr Bay Ridge av
 *Smith, Howard J. & Son, 256 St. James pl
 Smith, John, 30 Boerum pl
 Smith, John C., 225 Miller av
 Smith, John H., 727 Laf av
 *Smith, M. & Son, 511 Lorimer
 Smith & Simpson, 59 Ann
 Smith & Thompson, 47 Park pl
 Snyder & Madansky, 188 East New York av
 *Spaeth & Senger, 927 B'way
 *Spence Bros., 5201 3d av
 Spiter, Geo., Ridgewood Heights
 *Stall, Jacob, 15 Covert
 *Stechel, Christian, 65th nr 7th av
 Stiner, Munroe, 4718 6th av

*Stone, Arthur G., 44 Court
 Stone, Wm., 619 Baltic
 *Stonehouse, M. B., 1149 Bedford av
 *Strauss & Charig, 12 Court
 Suttie, Thos., 1237 Atlantic av
 Tatz, Jacob, 203 Moore
 Taylor, Wm. J., New York av
 *Terboss, Henry V., 26 Court
 *Thatcher, Edwin H. (Large), 54 Park av
 *Thatcher, John & Son, 54 Park av
 Todd, Sylvanus, 10 Lawton
 Tolmie & Kerr, Hull
 *Trevor, John, 161 Rodney
 Tunison, Willard E., 262 Greene av
 Turner Construction Co., 150 Steuben
 Ungar, Morris, 154 Cook
 *Valot, John, 247 Nostrand av
 Vander Veen, R. & Co., 52d
 Vause, Harold C., 119 Clarkson
 *Veit, Herman, 255 De Voe
 Visel, Chas. E., 1210 Madison
 *Vitelli, D. & Bro., 479 Adelphi
 Vom, Lem. Richard Sons, 1656 New York av
 Wagner, Jos., 84 Debevoise
 *Walsh, Martin D. (Large), 334 Lex av
 Warady, Louis, 243 Java
 Warner, Jno. E., 451 Evergreen av
 Weber, Fred, 197 Woodbine
 *Webster, Lewis C., 198 Reld av
 Weekes, Samuel M., 66 S 10th
 Welld, James, 241 Halsey
 Weintraub & Lust, Dean
 Welch, Wm. L., 456 Tompkins av
 Welge, William, 49 S 1st
 Wenzler, Isidor, 856 Knickerbocker av
 Wicks, Richard V., 908 S Portland av
 *Wild, Herman, Jr., 908 Willoughby av
 Wilson & Eason, 801 Marcy av
 *Wilson & Morgan, 456 14th
 Wing & Jones, 112 Clermont av
 *Winter, Thos., 2004 Nostrand av
 Witt, Paul, 88 18th
 Wolling, Fred'k., 194 Troutman
 Woodham, Fred'k. R., 312 Tompkins av
 *Wright, Wm. W., 250 Vandbt av
 Wuttke, Chas., 17 Hull
 *Wyeth, John, 321 13th
 Young & Pritchard, Jerome av
 Zengerle, Jos., 164 Suydam
 Zimmerman, Jacob A., Hamburg av
 Zimthaus, E., 338 Sumner av
 *Zummo, Angelo, 21 Hill

Boroughs of Manhattan & Bronx

NEW YORK—Abbott-Gamble Co., 32 B'way
 Acker, Henry, Longwood av & Dawson
 Ackerson, T. B. Construction Co., 140 Nassau
 *Acme Building Co., 32 Union sq E
 Adams, C. J., 23 Platt
 Adams Land & Building Co., 59 B'way
 Adams, Louis, 217 5th
 Adamson, J. H., 57 Ann
 Ahneman & Younkhere, Bailey av c W 234th
 *Aitken Construction Co., 1904 B'way
 Alexander, Robert, 119 W 24th
 *Allen, Geo. & Son, 1245 Park av
 *Alliegro, Michael, 555 E 154th
 Alliegro & Spallone Construction Co., 555 E 154th
 *Allinger, Henry, 423 E 16th
 *Altieri, A. & Bro., 351 E 117th
 *Altieri, J., Clay av & 107th
 Altieri, Jerry Co., 1567 Fulton av
 Amend, Geo., 16 Grand
 *Amsterdam Building Co., 41 W 24th
 *Anderson, A., 102 E 126th
 *Angus, John, 152 E 36th
 *Apmt Construction Co., 824 St. Nicholas av
 Appell, Edw. J., 1576 Bway
 Arch Realty & Construction Co., 1142 In-Armstrong, Wm., 617 10th av tervale av
 *Arnold Realty Co., 535 W 133d
 *Aronson & Baum, 709 St. Nicholas av
 *Atlas Construction Co., 500 5th av
 *Auletta, P., 417 E 114th
 *Avallone, Cornelius, 3124 Jerome av
 *Avallone, G., 334 E 112th
 Avallone & Biondi, 520 E 149th
 Baird, Chas. R., 433 E 92d
 *Baker, Jas. E., 1123 B'way
 *Banzer, George G., 332 E 67th
 *Barrow, William, 62 William
 *Bartlett, Hayward & Co., 100 B'way
 Bartlett, W. H. & T., 1874 Park av
 *Bauhahn, G. E., 70 Lenox av
 Baxter, Chas. R., Middletown rd
 Beaver Building Co., 82 Beaver
 *Beaver Construction Co., 22 William
 Becker & Rieger, 461 W 52d
 *Beekman, Lemuel F., 36 8th av
 *Beet, William, 140 Broad

*Behan & Cavanaugh, 44 E 23d
 *Belnhauer, Alfred (Large), 289 4th av
 Bell Eng. & Const. Co., 220 B'way
 *Bendetto, Jos. Di, 423 E 115th
 Benjes, C., 333 6th
 *Benjes & Stiefel, 86 1st av
 *Benson Brothers, 306 W 133d
 *Berg, Charles, 192 Bowery
 *Berger, Wm. C., Perry av & 201st
 Berlin Construction Co., 220 Bway
 Bernaschiff, Jos., 177 E 107th
 *Berliner & Greenberg, 147 E 125th
 Berman, Philip, 131 Norfolk
 Bernard & Co., 136 Liberty
 *Berry, H. & Co., 2d av nr 103d
 Berry, Martin H. & Son, 60 Cliff
 *Berton & Nickel, 435 E 23d
 Best, H. D., 544 W 45th
 *Blanchetti, Peter, 117 Macdungal
 Bimberg, M. R., 111 W 44th
 *Binder & Baum, 192 Bowery
 *Birnsteil, August, 1002 E 165th
 Bishop, J. W. Co., 353 5th av
 *Bjorkegren, C., Webster av & 171st
 *Bjorkegren, Chas., 2148 Mapes av
 Blaikie, W. & A., 1854 Park av
 Blaine, James T., 231 W 46th
 Blessing, Michael, 254 E 48th
 Blewett, Jas., 663 Lex av
 *Block, David L., B'way & 135th
 *Block, Louis, 229 W 111th
 *Bloodgood, Freeman, Jr., 8 York
 *Blumberg & Son, 60 W 114th
 *Bodenheimer & Keller, 227 E 98th
 *Boland & Son, 204 E 63d
 *Boltan, J., 506 E 70th
 *Boltan, Jacob, 230 W 63d
 *Bonagur & Bonagur, Prospect av
 Bonanno, P. & Son, 170 Worth
 Bond, Alfred, 334 W 24th
 *Bond, Chas. F. Co., 136 Liberty
 *Booth, H. F., 1123 Bway
 Borroni, A., 494 Pearl
 *Bottsford, Dickinson Co., 1170 B'way
 Bottsford, H. C., 545 W 148th
 *Bowne, Benj. F., 1921 Park av
 *Boyle, Frank & Sons, 500 W 44th
 Boynton, Jno. H. & Co., Flat Iron bldg
 *Bradley, William, Delancey & Clinton
 Bradley, J. B., 525 E 118th
 Bradley, J. T. & Co., 4 E 42d
 Bradley & Cook, 323 W 39th
 *Braender, F. W., 620 W 25th
 *Braender, Philip, 143 W 125th
 Brannelly, Joseph, 552 7th av
 Breen, David A., 510 E 71st
 Breen, M., 33 Inwood av
 Brennan, Peter J., 759 E 173
 Bresnan, Peter J. & Sons, 510 W 35th
 *Brice, Jno. F., 451 W 37th
 Brigham, Walter S., 2255 B'way
 Broadway Bldg. Co., 170 Broadway
 *Broderick, Edmund D., 1382 Lexington av
 *Brody, Adler & Koch, 1 Madison av
 Brooks & Tilley, 494 E 138th
 *Brose, Andrew, 1 Madison av
 *Brown, Alex., Jr., 150 5th av
 *Brown, Isaac T., 143 Liberty
 Brown, W. J., B'way & 136th
 Brown & Fleming Contracting Co., 129 Broad
 Brown & Lapin, 668 E 141st
 Buchanan, T. J., 504 Columbus av
 Buchanan & Son, 4 Benson
 Buckley Realty Construction Co., Times bldg
 Buckley, R. W., 624 Madison av
 *Buckley, Thos. J., 408 10th av
 Buerger, Emil, 171 E 112th
 Builders Cons. Co., 147 B'way
 Bulloch, Samuel R., 52 Bway
 *Bulman, Hy. T., Ft Washington av & 160th
 *Bunn & Nase, 1123 Bway
 *Burke, Luke A. & Sons (Large), 401 W 59th
 Burnett, Wm. E., 320 5th av
 *Butts, D. H., 37 W 25th
 *Byrnes, Patrick J., 105 E 31st
 Cadoo, Geo. J. & Co., 357 W Bway
 *Cahn & Levy, Audubon av & 166th
 *Caldwell, John, 259 W 27th
 Calvert Construction Co., 3137 B'way
 *Cameron, Murray & Hill, Edgecomb av nr 151st
 *Campbell, Christopher, St James bldg
 *Campbell, Wm., 214 W 68th
 Campbell, Wm. A., 15 E 59th
 Canavan Bros., 118 W 101st
 *Candee, C. F., Jr., Engcomb av nr 151st
 *Cane, W. H. & F. W., 17 Park row
 *Carey, M. J. & Co., 1123 B'way
 *Carey, W. J., 1062 3d av
 Carlin, John, Jerome av nr W 169th
 *Carlin, P. J. Construction Co., 1 Madison av
 *Carlin, J., Jerome av & 168th

Carroll, James, 139 Leroy
 Carucci Bros., 19 Villa av
 *Casey, J. P., 345 W 48th
 Casey, Richard H. (Large), 109 W 30th
 †Central Building Imp. & Investment Co.,
 587 Lexington av
 †Century Holding Co., Washing'n av & 173d
 †Century Building Co., 1 W 34th
 Cerabone, V., 628 W 114th
 †Cerra, A., 311 E 111th
 †Chandler, B. D., 11 Thompson
 Chamberlain, A. B. & Co., 29 Bway
 Champion Contracting Co., 624 Madison av
 Chandler, B. D., 11 Thompson
 Chapman, Robt., 1874 Park av
 *Cherry, Joseph, 620 W 25th
 Chesebrough Building Co., 17 State
 Choate, Edw. A., 110 E 23d
 Christie, Jas. W., 119 W 30th
 Christie, Jordan, 1233 3d av
 Christie, Robert & Son, 122 W 29th
 Chute, H. N., 23 E 86th
 Church Construction Co. (Large), 126 Liberty
 Ciccarelli Bros., Eastchester rd
 Clippolia, C. & Co., 2d av & 213th
 †Clark, Fred., 520 Hudson
 Clark, Geo., 3d av & 170th
 †Clark, Jas. A., 464 Canal
 †Clark, John W., 86 Roosevelt
 †Clark, Nathan E., 1211 Madison av
 †Clark & Co., 100 B'way
 Climax Cons. Co., 42 B'way
 †Cluse, Robert J., 3d av & E 148th
 †Cobban, G. & J., 162 W 21st
 Cobban, Robert & Sons, 961 Columbus av
 Coble, Robert, Webster av & 179th
 Coburn, Alfred P., 11 W 81st
 Cochen, Lincoln C., 7 E 42d
 Cockburn, Wm. H., 703 Amsterdam av
 *Cockerill, Thos. & Son (Large), 147 Co-
 lumbus av
 Coffey, Wm. J., 243 W 57th
 Cohen, J., 12 Columbus av
 Cohen, H. M., 29 Canal
 Cohen, Harris, 4 E 107th
 Cohen, Morris O., 318 E 59th
 Cohen & Kraft, Park av & 103d
 Colonial Construction Works, 516 E 72d
 Colwell, Hugh, 395 Brooks av
 †Conover, W. A. & F. E., 253 Bway
 Contessa, Vito, 226 E 121st
 Cook, Ferguson A. & Son, 127 W 40th
 *Cook, O. W. & Son Co., 127 W 40th
 Cornell, Jno., Jr., 163 W 20th
 †Corning, Edward Co., 100 William
 Cornell, J. N. H., 32 Bway
 Corson, George W., & Sons, 161 E 84th
 †Costello, T. F., Ernestliff pl, Bedford pk
 †Cowen, Chas. A. & Co. (Large), 1123
 Crawford, Jas. C., Williamsbridge B'way
 Crawford, Wm., 5 E 42d
 Crockett, Thomas A., 179 W. B'way
 †Crockett, W. & W. F., 2 E 58th
 Cronk, John, 115 W 37th
 *Crow, Wm. L. (Large), 287 4th av
 Crump, Wm. R., Pleasant av nr E 216th
 Williamsbridge
 †Cummlng, Wm., B'way & 135th
 Cummings & Wilson, 25 W 64th
 Cunningham & Kearns, 438 S 91st
 Cuozzo, D., & Bro., 150 Nassau
 *Curran, Thos., 796 7th av
 Cusack, M. F., Prospect av & 161st
 †Dall, J. Construction Co., 10 E 23d
 Daly, Jer., 343 W B'way
 *Danmore & Lanzetta, 402 E 116th
 †Darcy, Thomas, 305 Pearl
 D'Auria, P., 2092 Hughes av
 Davin, D. W., 74 Irving pl
 Davis, John W., 543 W. B'way
 Davis, Jos. H., 109th & Riverside Drive
 Davis, R. L., 625 Hudson
 †Dawson & Archer, 150 5th av
 Dawson Realty Co., Dawson & Wales av
 De Baun, Jno. F., 1368 B'way
 †Deeves, J. H., & Bro., 287 4th av
 †Deeves, Richard & Son, 309 B'way
 *DeFago, James, 19 Jumel pl
 *Delsler & Stevenson (Large), 1133 B'way
 *Depew, H., 231 W 95th
 De Waltoff & Marcuson, 521 W 182d
 De Witt, Orville W., 256 W 81st
 Dick, James, 941 6th av
 Dickinson, B. C., 1170 B'way
 Dietz, Louis A., 21 Park row
 Dilitzky, Morris, 305 E 77th
 †Diller, Wm. E., 571 5th av
 *Dinger, Charles & Son, 51 John
 Disken, Jas. F., 114 E 23d
 Dittmar, Carl H., 215 W 125th
 Dixon, Wm. F., 156 5th av
 †Doane & Edelman, 126 William
 Dobbie, Jas. N., 210 E 38th
 Doctor, George, St. Nicholas av & 146th

Doern, Peter, 18 E 42d
 Donahue, Cornelius A., 175 Waverly pl
 *Dowd & Maslem, 217 W 125th
 *Downey, Jno. (Est. of), 410 W 34th
 Duffy, Jas. J., 533 W 24th
 Duffy, Jos. A., 131 W 31st
 †Duffy & Collin, 131 W 31st
 †Duggan, Frank, 175 E 62d
 Durkin, Jno. J., 489 5th av
 Dwyer, Thos., 1613 Amsterdam av
 †Eakins, John R., 689 Columbus av
 Eaton & Co., 117 W 28th
 †Edgar's, Geo. C., Sons, 2 W 88th
 Edwards, Chas., 2594 B'way
 *Egan, Jas. F., 64 Ann
 Egan, Stephen J., 186th
 Eickhoff, Chas. E., 2704 Bway
 †Eldlitz, Marc, & Son, 489 5th av & 308
 Eldlitz & Ross, 1123 B'way E 59th
 Eizenstein & Schwartz, 608 6th av
 Eldred, Wm. E. Co., 2281 3d av
 †Elgar, James, 335 W 24th
 †Emrich, Joseph, 150 Bway
 Engesser, Henry, 403 E 16th
 *Enright, Geo., 52 Centre
 Epstein, Joseph, 115 E 82d
 †Erskine & McGregor, 205 W 19th
 Essig, Albert, 2138 8th av
 Eulenstein, G., 1960 Anthony av
 †Eureka Construction Co., 287 4th av
 Evans & Thomas, 147 W 53d
 Exner, Paul J., 149 E 15th
 Faiella, Jos., 892 E 187th
 Falk & Fine, Manhattan av & 108th
 Falk & Flam, 15 W 137th
 *Farley, Jno. T. & Jas. A. (Large), 571 5th
 av
 †Farley, Jos. A. Construction Co., Windsor
 Arcade
 Farrell, Hooper & Co., 2105 7th av
 Feldberg, M., Lenox av & 143d
 Felt & Malakoff, 110 W 95th
 Ferguson, Geo. E., 80 William
 †Ferguson, John W. Co., 253 B'way
 Fessler, Albert L., 451 W 40th
 Finney, Robert S., Times bldg
 Fish, Jno., 2010 7th av
 Fisher, Frank A., 125 W 31st
 Fisher, George A., 75 Manhattan av
 Flshbough, Peter C., 21 Hudson
 †Fissell & Wagner (Large), 1133 B'way
 †Fleischmann Realty & Construction Co.,
 170 B'way
 Flygare, Chas. G. & Co., 207 E 52d
 *Fontana, G. & Co., 210 Bleecker
 Forrest, Henry R., 315 W 53d
 †Fountain, G. E. & G., 34 E 64th
 †Fountain & Choate (Large), 114 E 23d
 Fowler, A. T., 474 Columbus av
 Fowler, Jos. D., 76 W Housn
 Fraenkel, A., 185 7th
 †Frame, Jas. A. & Son, 2131 B'way
 Frank, Meyer, 107 E 115th
 Freedman & London, 123d
 Friedelson, S., 215 W 125th
 Friedman & Feinberg, 152 W 118th
 Fries, Longin, Eastchester rd, Westchester
 *Fuchs, Michael, 192 Bowery
 Fuller, Elam H., 175 W Houston
 †Fuller, Geo. A. Co., Fuller bldg
 Fulton, John, 546 W 45th
 Fulton & Best Co., 544 W 45th
 Fusco, G., 475 E 151st
 †Gabay Construction Co., 3 E 17th
 Gabler, Jno. C., 86 Cortlandt
 †Gaines-Roberts Co., 163d nr Union av
 †Galbraith, Andrew, 1559 B'way
 †Gallagher, Patrick, 1181 B'way
 *Gallagher & Co., 459 Lenox av
 Gallin, Jno. W., 383 Cherry
 Galwey, E. J. Building Co., 156 5th av
 Gamble, James, Contract Co., 15 William
 Garvey Bros., White Plains av
 Gault, John H., 2269 Washington av
 Gelhard, Robert J., 67 W 125th
 †Gehlker, F., 24 E 21st
 Gehlker, Ferd., 23 E 21st
 †General Building & Construction Co. (Large
 Builders, etc.), 49th & Madison av
 †General Contracting Co., 147 4th av
 †Gest, Guy M., 277 B'way
 †Getty, Hugh, 359 W 26th
 Gilbert, Wright L., 144 Chambers
 Gilbreth, Frank B., 34 W 26th
 *Gilleran, M. J., Pond pl & 197th
 Gillespie Bros., 1135 B'way
 *Gillespie, Walsh & Gillespie, 1133 B'way
 Gillespie, T. A., Co., 71 B'way
 Gilie, Jos. B., 514 W 143d
 †Gillies, Campbell Co., 1 Madison av
 *Glick & Allen, 811 E 145th
 Goldberg, H. B., 5th av nr 138th
 †Goetschius, John H., 539 Hudson

Goldman, Chas. A., 6 Liberty pl
 Goldman, Jacob, 258 W 131st
 Goodsteln, Harry, 200 B'way
 Gordon, Barnet, 16 New Chambers
 Gordon, John, 15 E 13th & 261 W 25th
 Gotham Building & Construction Co., Cen-
 tral Park W & 86th
 Graham, Chas., 231 E 33d
 Gray, A. & W. & Co., 233 W 37th
 Great Eastern Building Corp., 299 B'way
 Green, Warren E., 1133 B'way
 Greenbaum & Wiener, 7th av & 129th
 *Greenblatt, Ely, 227 Madison st
 †Greenblatt, N., 227 Madison st
 Greenless, Thomas, Woodlawn Heights
 †Greenstein, Samuel, 432 E 121st
 Griffin, W. H. & S. J., 576 Water
 Grimm, Louis, 797 E 148th
 Gross & Herman, 217 W 125th
 Guidone, T. & Galardi, 1 Madison av
 †Gunn & Grant, 549 W 129th
 Gussaroff, Elias, 541 W 144th
 Haas, Julius, 767 Lex. av
 Haas & Freid, 90 E 10th
 Haberle, A., 611 Columbus av
 †Hagerty, Jas. J., 156 E 105th
 †Hale, Mortimer W., 125 E 23d
 †Hall, W. W. & T. M., 11 E 42d
 Hall, Wm. H., Jr., 38 W 86th
 Hall's, Wm., Sons, 39 E 42d
 †Hamilton, Archibald, 116 E 28th
 Hamilton, Jas., 83 W 118th
 †Hamilton, Jno. L., & Sons, 350 W 27th
 †Hankinson, Wm. A., 116 W 33d
 †Hanover Realty Construction Co., 20 Broad
 Hansen & Hansen, 447 W 49th
 Harding, Lewis, 335 E 46th
 Hardy, Geo. H., 116 W 31st
 Harley, Peter S., 131 W 124th
 Harper, William G., 229 W 50th
 Harris, Herman, 60 Liberty
 Harris & Siegel, Lenox av & 121st
 *Hart, Chas. F., 56 New
 Hart, Max, 116 Nassau
 Hearn, Jno. J., Construction Co., 1 Madison
 av
 Hedden Construction Co., 1 Madison av
 Hedlund, John, 218 E 21st
 *Hedde, C. J. & Co., 66 Gold
 †Heesch & Sibbert, 131 Beekman
 Heimerdinger, Eugene M., 541 W 124th
 Heins & La Farge, 30 E 21st
 Helbing, R. J., 247 W 56th
 Helwege, William, 63 Gansevoort
 †Henderson, Alex., 307 W 21st
 †Henderson, Wm., 1123 B'way
 *Henlugham, Richard E. (Builder), 1 Madi-
 son av
 Hennebique Construction Co., 1123 B'way
 Henry, Ralph, 178 E 124th
 Herman, Geo. J., 258 B'way
 Hermauy, A. & Son, 625 E 146th
 Herrel, Jno., 418 W 42d
 †Herrmann's, Philip, Son, 407 W 14th
 Herrel, Jno., 418 W 42d
 Herzog, S., 212 E 73d
 Hesketh, Robt., 300 W. 144th
 Hickey, Patk. J., & Son, 111 W 37th
 Higgins & Haslun, 470 W 165th
 Higginson & Lindsley, 1123 B'way
 *Hild, George J., 418 W 42d
 †Hildebrand, Geo. (Large), 38 Park row
 Hillers, August, 511 Park av
 Hillman & Golding, 304 S 103d
 Hiltl, G. L., 1315 Clinton av
 Hines, Frank H., 104 W 124th
 *Hilyard, Geo. D., 215 E 36th
 Hirshfeld, Max, 360 Cathedral Parkway
 Hislop, Thomas, 2124 Bway
 Hodge, Wm. F., 211 Varick
 †Hoe's, James C., Sons, 10 Liberty pl, 831
 G'wich & 54 Gansevoort
 Hoffman, Mayer, Amsterdam av & 171st
 †Hogenauer & Wesslau, 560 W 184th
 †Hogencamp, Jno. W., & Son, 136 W 55th
 †Holding, Wm. F., Davidson av & 185th
 Hollerith, Henry, 505 Willis av
 Hollerith, Jos., 524 Bergen av
 Holloway & Neuhs, 2208 B'way
 †Holmes Bros., 265 B'way
 *Holst, Christ, 608 E 84th
 Hood, Jas., 52 Fulton
 †Hood, R. H. Co. (Large), 299 B'way
 †Hopper, Isaac A., & Son (Large), 1170
 Hooper, John J., 217 W 125th B'way
 †Horne, Wm. Co., 71 W 132d
 Horowitz, A. & Son, 5th av & 129th
 †Horwitz & Lefkowitz, 1493 Madison av
 Houlihan, Daniel, Bedford pk
 Houtt & Flney, Times bldg
 Houston, Thomas H., 101 W 57th
 *Hubener & Escher, Cortland av & 156th
 †Hughes Bros., 162 W 27th

Hunt, J. W., 236th nr Fulton
 Hunter, W. W., 128 Greenwich
 Huntley, George F., 396 Pearl
 Hurley, John, 156 5th av
 Hutchins, Herbert P., 1123 B'way
 Hyams Realty Co., 557 W 140th
 Hyde, F. D., 5 E 42d
 Imhoff, Anthony G., 249 W 18th
 Inglis, A. H., 105 W 104th
 Inman & Co., 443 W 17th
 Isaacs, Jos., 425 E 65th
 Isele, Robert, 1685 Weeks av
 Jackson, Geo. G., 208 W 17th
 Jackson Bros. Construction Co., 141 B'way
 Jacob, A. & Son, Morris av & 179th
 Jacob & Youngs, 1133 Bway
 Jacobson, J., Edgecomb rd & 167th
 Jaffer, Louis A., Amsterdam av & 111th
 Jaffer & Goldfield, 532 W 145th
 James, C. & Co., 2440 B'way
 Jeans & Taylor (Large), 59 Carmine
 Jeckel, Frank, 828 9th av
 Jennings & Welstead, 27 W 50th
 Johnson, Chas. O., 482 W 24th
 Johnson, John P., 303 E 78th
 Johnson-Kahn Co., 1 Madison av
 Johnson & Allen, 407 W 35th
 Johnston, Jas. D. Co., 1133 Bway
 Jones, Chas. & Co., B'way & 134th
 Jones Construction Co., 1 Union sq
 Jones, Thomas W., 22 Burling sl
 Jordon, Jno., 112 E 43d
 Jordan, Jno. & Son, 447 W 28th
 Joseph & Richland, 107th & Manhattan av
 Joyce, Martin, 403 W 29th
 Judis, Irving, 311 W 116th
 Kahn, Harris, 122 E 117th
 Kane, M. & Son, 31 Perry
 Kantor & Cooper, W 147th
 Karns, Geo. C., 172 Webster av
 Karp & Heller, 524 W 147th
 Karpas, Gottlieb M., 201 W 84th
 Keegan, Jno. J., 218 E 74th
 Keegan Construction Co., 500 5th av
 Keeler, Jno. J., 35 Warren
 Kehoe, John & Co., 401 E 18th
 Kelley, Samuel D., 4 Gold
 Kelly, Jas. A., 50 E 41st
 Kelly, Joseph, 258 W 22d
 Kelly, Robert E., 220 E 41st
 Kelly & Kelley, 45 E 42d
 Kennaugh, Wm., 462 W 52d
 Kennedy, Jno. & Co., 1133 B'way
 Kennedy, P. H., B'way & 86th
 Kennedy & Hopp, 95th & B'way
 Kennelly, Maurice V., 64 Vesey
 Kerwin, Andrew J., Jr., 15 W 24th
 Ketcham, Fredwell, 447 Willis av
 Kiehle, W., 1035 Stebbins av
 Kieran, Peter, 15 E 218th
 King & Salkin, 11 Av A
 Kinman, Rea Co., 203 B'way
 Kinsella, Clinton W., 116th & Amsterdam av
 Kirkpatrick, Wm. J., 437 Lenox av
 Klappert's, C. W. Sons, 328 E 25th
 Klein, L., 116 Nassau
 Klein, William & Sons, 191 E 3d & 505 E
 Kleinfeld & Rothfeld, 551 W 160th 15th
 Kleitz, Geo. L., Riverdale
 Klingman, F., 132 E 44th
 Kotlowsky, J., B'way & 143d
 Krabo, A., Hughes av
 Kramer, A. B'way
 Kramer & Rockmore, 35 Nassau
 Krause, Frank, 66 Pearl
 Kreps & Nezdol, 80 Duane
 Krulowitch, E. M., 2 Birmingham
 Kurzman, A. F., Audubon av & 185th
 Kurzman, Aaron F., 8th av & 147th
 Kurzrok, R., 1st av & 108th
 Lafond, Louis, 610 E 151st
 Laimbeer, John, Jr., 239 W 50th
 Lane, Joseph & Co., 492 Columbus av
 Lang & Schwenker, 7 Rector
 Langley, John (Inc.), 119 E 23d
 Larkin, Michael & Son, 519 E 16th
 Larter, A. & Son, 218 W Houston
 Laudin & Stamm, Bradhurst av & 146th
 Lavelle & Hill, Kelly & 165th
 Lawless Bros., 1072 3d av
 Lawrence, Isaac C., 348 W 16th
 Laws, J. H., 75 Broad
 Leahy, Thos. B. Bldg Co. (Large), 1 E 42d
 Leddy & Moore, 41 Christopher
 Lehmann, Charles, 176 3d
 Leln, H. W., 128 W 49th
 Leitner, Joseph, 1050 Fox
 Lennon, John J., 618 Washington
 Lenox Construction Co., 159 W 125th
 Levin, M. 241 E 77th
 Levington, Max, 6 Sullivan
 Levin & Levin Contracting Co., 320 5th av
 Lewine & Danis, Amsterdam av & 122d

†Lewis & Jones, 2 W 14th
 L'Hommiedieu's, J. H. Son, 1133 Bway
 Liberman, Chas., Trinity av & 156th
 Libman & Horowitz, Amsterdam av & 172d
 Li Greici, N., 2410 1st av
 List & Rose, 629 W 51st
 *Lithgow, George W. & Son, 41 Klng
 *Lofink, K., 617 E 151st
 Lonigan, T. J., 1133 B'way
 †Lorenzo Bldg Construction Co., 432 E 15th
 *Lordi, Perneti & Derespiris Construction Co., 421 E 116th
 Lotz, Frank, Victor, Van Nest
 †Lowen, Chas. Co., 194 Riverside av
 †Lowry, Jas. L., 305 W 40th
 Loughran, Jno. J., 39 Cortlandt
 Luft, Robert & Co., 151 W 31st
 Lund, Phillip, 229 Mercer
 Lustbader Construction Co., 3526 76th
 Lustig & Well, 352 E 76th
 †Lyons, Jeremiah C. Bldg & Operating Co.
 McAfee, Robert, 55 Ann 4 E 42d
 †McBrien, Edward C. (Large), 244 W
 McBrien, Jno. D., 71 Morton Houston
 *McCafferty & Buckley, 624 Madison av
 McCallum, Jno., 223 E 23d
 McCarthy, J. & Son, 1073 3d av
 McCarthy & Macy, Falle
 McClintic-Marshall Construction Co., 17
 Park row
 †McCullagh, John H. & Sons (Large), 148 W
 †McDermott, Jas. E., 206 W 93d 4th
 McDonald, John B., 32 Nassau
 McDonald, William, 83 Pine
 McDonald & Onderdonk, 2906 Jerome av
 *McEntee & O'Brien, 1123 B'way
 †McEntyre, P. B. & Son, 220 W 36th
 McGarity, Jas., 1612 Bathgate av
 McGillen, J. J., 300 E 31st
 McGregor, Chas., 122 E 11th
 McGuinness, J. W., 51 E 63d
 McGuire, Jas. C. Co. (Inc.), B'way & 111th
 McGuire, S. A., 1170 B'way
 McGuire, S. K. & Sons, 99 Broad
 †McKean's, Wm. Sons, 48 Bank
 †McKeefrey, John, 289 4th av
 McKeown, Thos., 521 W 110th
 McKiernan, Jno. J., 2421 Bway
 McKinlay, Jas. G., 502 W 145th
 McKuip, C. S. Co., 503 5th av
 †McLaughlin, Thos. F., 348 E 81st
 McLaughlin, Thos. J., 39 E 42d
 †McManus, Thos. & Son, 45 E 42d
 †McMorrow, Patrick, 360 W 125th
 McMullen, Arthur & Co., 17 Park row
 †McNally, Harry Bldg. Co., 396 Bway
 McQuinn, Donald, 53 Great Jones
 McWalters, James, 844 5th av
 Macdonald, Arch. A., 550 W 41st
 Macdonald, J. R., 405 W 59th
 Macdonald, Jno. H., 359 W 16th
 †Mackey, O. T. & Co., 1 Madison av
 MacKenzie, Quarrier & Ferguson, 114 Lib-
 Madden Bros., 8 W 137th erty
 *Maguire, Michael & Son, 88 Greenwich
 Maguire, Thos. F., 88 Greenwich
 †Maher, James S., 1265 B'way
 Maher, William G., 1133 B'way
 *Mahoney, Robt. J., 1133 B'way
 Mahony Bros., 101 W 42d
 Makransky & Applebaum, 20 W 112th
 †Malcolm, Thos. D., 3d av nr 170th
 Mandel, Samuel, 135 B'way
 Manson, Donald A., 50 New & 9 Coenties
 Many & Murphy, 620 W 25th slip
 Margulies, Samuel, 300 W 40th
 †Markenfield Construction Co., 26 Cortlandt
 Markey, J. J. & F. P., 162 E 35th
 Markofski, O., 869 E 138th
 Markowitz, S., 123 W 124th
 Marrin, E. & J., 520 E 18th
 *Martin, Jno. T., 39 E 42d
 Mascia, S. A., 602 Morris av
 Mathison, Jas., 547 Broome
 Matthews, Ed. A., 21 Park row
 †Matthews, Jas. D., 39 E 42d
 †Mautner, J. & Son, 99 Nassau
 May & Jekyll, 1 Madison av
 Maybury, Chas. B., 931 6th av
 †Meehan, Jas. F. Co., Longwood av
 Melin, Otto, 176 Wooster
 †Mellert, Fred. M., 2170 Washington av
 Melvin, A. J., 945 6th av
 Merksamer, S., 925 St. Nicholas av
 Meryash, L., 156th nr B'way
 †Metz, Otto, 22 E 21st
 Mileham, Jas. A., 206 Washington
 Miller, H., 129 Broad
 *Miller, Isaac B., 460 W 40th
 Miller, Wm. S., 141 E 40th
 Miller & Mann, 100 W 54th
 Milliken Bros., 11 Bway
 †Mitchell, Donald, 304 W 53d

Mitchell, Jas. E., 334 W 24th
 Monks, Robert, 1 Madison av
 Moore, Chas. C. & Co., 26 Cortlandt
 *Moore's, A. Sons, 1 W 68th
 Moran, Jas., 166 W 56th
 Moreland, J. & L. Co., 1910 Park av
 Morgan, Thos., 1407 Elmsmere pl
 Morison, David, 119 W 33d
 Morrell, Cornelius S., 59 Ann
 Morris, Chas., 452 W 164th
 Morton, Chas. & Co., 500 5th av
 *Muldoon, Francis, 624 Madison av
 Muldoon, Wm., 438 W 31st
 Muller, Louis, 500 5th av
 Mulligan, Geo. Co. (Large), 33 E 32d
 Mungo, Malene & Co., 235 E 106th
 Murdock, Harvey (Large), 116 Nassau
 Murphy Construction Co., 5 E 42d
 †Murphy Bros., 407 E 101st
 †Murphy, Jas. D. Co., 1026 6th av
 Murphy & Son, 764 11th av
 *Murray, Isaac A., 317 W 125th
 Murray, Wm. J., 147 E 125th
 Murray & Charleston, 146 E 16th
 Nadler, F. H., 546 E 82d
 Napier, Milton A., 25 W 26th
 Nash, Sidney H., 618 E 142d
 Nathan, M., Bailey av & 230th
 Naughton Construction Co., 299 B'way
 Navasky & Billowitz, 94th nr 4th av
 †New York Building Alterations Co., 531 E
 17th
 †New York State Construction Co., 78 Broad
 Neyland, M. J., 9 Coenties
 Nicholsburg, H., 546 Lenox av
 Nickisch, Jno. H., Fulton nr 238th
 Nicoll, Louis C., 925 St. Nicholas av
 Nicoll & Merksamer, 925 St. Nicholas av
 *Niewenhaus, S., 1 Madison av
 Noble & Gaus Construction Co., Elton av
 Norcross Bros Co., 160 5th av & 160th
 Normoyle, Michael, 92 Christopher
 Norton, Patrick, 1035 3d av
 *Nugent, Alfred & Son, 103 E 125th
 O'Belrne, Francis J., 468 8th av
 Obermeier, Anthony J., 311 W 39th
 O'Brien Bros., 55 South
 †O'Connor, Francis X., 249 W 52d
 Odell, E. S. & Co., 1155 Boston rd
 O'Dwyer, M. & Son, 163 6th av
 O'Keefe, Jno. J., 1 Hague
 Oliver & Burr, 150 Nassau
 Olsen, Chas., 550 W 29th
 Olt, L. Fred'k, 118 E 88th
 Oppenheim, Louis, 1571 2d av
 O'Rourke, T. B., 533 W 42d
 O'Rourke Eng'g Construction Co., 1 W 34th
 O'Shea, P., 148 W 28th
 O'Shea, Walter L. & G. H., 29 Bway
 Otis, H. W. & Co., 39 E 42d
 Oussani, Jos., 110th nr 7th av
 †Outwater, Edwin, 510 W 24th
 Owens, Edward, 949 B'way
 †Oxnard Construction Co., 32 Nassau
 *Pace & Cripps, 119 W 30th
 Pacey, Jas. W., 550 W 41st
 Packer & Co., 1957 Madison av
 Paddell, T. F., 7th av & 42d
 Paletz, Jacob, 207 W 27th
 †Parker, John H. Co., 227 4th av
 *Parkinson, Charles, 67 Greenwich
 Parry, Elton E., 2127 B'way
 Parsons, Chas. F., 34 Beck
 *Pasquini, Attilio, 1123 B'way
 †Paul, Edw. E., 289 4th av
 †Peaston, Peter, 372 Water
 Peck, Geo. F., 368 Columbus av
 Peck & Goldstein, 554 W 148th
 Peck & Scoboloff, 157 E 121st
 Peckworth, Chas. H., 415 Hudson
 Pepelner Bros., Amsterdam av & 124th
 Penney, Thos., 19 Thames
 †Pennock, J. E. & A. L., 1133 Bway
 Perera, Lionello & Co., 1st av & 116th
 Pfund, Hippolyte, 344 E 61st
 Pfuhler, Geo., 486 6th av
 Phillips, Geo. W., 135 W 103d
 †Pickeu, Jas. C., Prospect av
 †Picken, Wm. H., St Nicholas av & 125th
 Piermont, G. M., 215 W 125th
 Pigueron, Geo. H., 32 Union sq, E
 Pihlman, Gustav I., 266 1-2 William
 Pinckney, H. I. & Co., 19 Fulton
 Platzner, Otto, 120 W 125th
 *Poerschke, Edw. R., 107 Bible House
 *Potterton Bros., 215 W 28th
 Potter & Foubister, 132 W 16th
 *Powell, James D. & Bro., 216 E 24th
 Power, James, 482 Pearl
 Powers & Eilers, 21 Thames
 Price & Halk, 120 E 59th
 Priestley, Thos. S., 5 Hudson
 †Probst, Herman, Park av & 61st

†Producers, Geo. W., 287 4th av
 Pugh, Paul B. & Co., Riverside dr & 109th
 *Purgold, Alfred J., 152 E 53d
 Qualey, Jos. S. Co., 29 Bway
 †Quinn, Thomas J., 883 E 166th
 *Quish Bros., 773 8th av
 *Raborg, H., 3 Broad
 †Rae, Thomas & Son, 253 W 27th
 †Randall, Stephen M. & Son, 1123 B'way
 †Ravekes, Albert & Son, 6 Sullivan
 †Ray, F. A., 240 W 23d
 Reed, Washington B., 585 7th av
 †Regan, John & Son, 182 E 119th
 †Reid, M. & Co., 114 W 39th
 Reilly, Thos. J. Co., 353 5th av
 Reinecke & Fajen, Hughes av & 179th
 *Reinhardt Bros., 643 5th
 Remington, E., 527 5th av
 Rettig & Jost, 335 E 28th
 *Rice, Lawrence J., 5 E 42d
 Richmond & Brigham, 1900 B'way
 *Richter, George, 100 William
 Rigney, Jno. T., 2199 S Boulevard
 †Rixson, Oscar C., 7 E 42d
 Roberts, Jno. B. & Co., 1 Madison av
 †Robbins, Harry P., 20 W 34th
 †Robbins, Henry A., 25 W 33d
 †Roberts, Peter & Co., 33 Sullivan
 Robertson & Gammie, 986 E 138th
 †Robinson, A. J. Co., 123 E 23d
 Robinson, D., Teller av & 165th
 Robinson, I., 1989 Washington av
 †Robinson, John C., Custom House bldg.
 Bowling Green

Rodler, Albert, 186 William
 Rodgers, J. C. & Son, 1909 Amsterdam av
 †Rogers, Geo. W. & Co., 44 B'way
 Rogers, Henry B., 2537 8th av
 Rolf, Bernard, 39 Cortlandt
 *Rosenbaum, Mortimer C. & Co., 1511 3d av
 *Rosenberg & Aronson, 21 Eldridge
 Rosenblum, D., 309 Henry
 *Rosenzweig, I., Washington av & 180th
 Ross, Chas. R., 20 Cedar
 Rossell & Pfeffer, 1 Madison av
 Rothermel, A., Tiffany & Whitlock av
 *Rothschild, M. H., 32 Union sq
 *Ruddell, Geo. W., 25 W 42d
 Rue, Elwood, 219 W 29th
 Ruth, Samuel J., Amsterdam av & 135th
 Rutherford, Richard A., 129 Madgln
 Rutland Realty Co., Riverside dr & 125th
 *Ryan, Peter J. (Large), 314 W 44th
 Ryan-Parker Construction Co., 21 Park
 Sanderson & Porter, 52 William row
 Sands, Frank B., 23 Gold
 Sanderson Bros., 106 W 30th
 Sax, Sussman & Halpin, Amsterdam av &
 135th

†Schaefer, John V., Jr., & Co., 9 E 59th
 *Schaeffler, Peter & Son, 75 Bible house
 Scheidecker, Chas., 556 W 170th
 Scheier, J. H., 114 Liberty
 Sehenkein, S., 459 W 163d
 Schiff, Harry, 308 W 111th
 †Schlesinger & Fenichel, 147 E 125th
 Schlesinger & Schlesinger, 520 W 40th
 Schlimgen, W. E., 1122 B'way
 Schloss, D. & Sons, 234 Delancey
 *Schminke, A., 34 1st
 Schmitz & Eulenstein, 1960 Anthony av
 Schnaier, Robt., 957 Madison av
 Schneider & Herter, 954 E 135th
 Schorer, F. A., 34 Pine
 Schuh, Chas. P., 4 Albany
 Schuster, Jacob, 447 W 38th
 Schuyler, Philip, 121 Watts
 †Schwarzler, Albert J., Brook av & 169th
 Schwarzler, Jos. A., Park av & St. Pauls pl
 Seboyer, David, 620 6th av
 †Seely-Taylor Co. (Large), 78 Broad
 Segall, Henry, 8th av & 147th
 Seider & Stollar, 712 Caudwell av
 Seigler & Cohen, 11 W 108th
 Sellite, R., Pelham av
 Sexton & Odell, 156 E 34th
 Shalita Bros., Fulton & Wendover avs
 Shapiro, Chas., 122d nr B'way
 *Sheehan, John R. & Co. (Large), 1123
 Sheehan, John C., 253 B'way B'way
 *Sheeran, Thomas, 37 Oliver
 Shields, John, Construction Co., 1 Madison
 Siegel, Samuel I., 60 Liberty av
 Signell, John V. Co., Clarmont av
 Silberberg, Louis, Vyse
 Silman & Whittle, 114 University pl
 †Silverman, Arthur E., 1401 Madison av
 Silverman, C. M. & Sons, 1448 Madison av
 Silverson & London, 217 W 125th
 Simken, Geo. B., 37 Vandewater
 Simon, Kurzman & Segall, 8th av & 147th
 †Singhi, Henry U., Jerome av nr E 184th
 †Slade, Wm. G., 317 Bway

Slagle, Geo. W., 1831 Park av
 †Slattery, John, 368 Park av
 *Slevin, Jas. F., 12 Chambers
 †Sloane & Moller (Large), 316 E 65th
 Smith, Augustus & Co., 39 Cortlandt
 Smith, Charles & Son, 102 Maiden la
 Smith, Elward & Co., 43 Ann
 *Smith, F. V. Contracting Co., 147 E 125th
 †Smith, Ilavilah M. & Son, 78 Watts
 Smith, W. C., 78 Watts
 Smith, Wm. E., 1 Madison av
 Smith & Simpson, 59 Ann
 Smyth, Samuel, 41 Liberty
 Snare & Triest Co., 143 Liberty
 Sodergren, Eric, 159 St Nicholas av
 Somerville, Wm., 317 E 122d
 Southern, Alfred T., 207 E 49th
 Spangenberg, Charles, 210 E 59th
 Spearin & Preston, 17 Battery pl
 Spearing, Jas. T., 50 W 29th
 Speiser, M., 301 Mulberry
 Spence, John, 131 E 18th
 †Springsted & Adamson, 424 E 107th
 †Squier, J. Bentley, 60 B'way
 Staiger, Chas., 224 E 9th
 Staiger, Gustave, 11 E 128th
 Standard, Ambrose B., St. James bldg
 Stanton, George, 120 Worth
 Staudt, Alois, 138 E 56th
 Steel, Alex, 228 W 10th
 †Stegmayer, Jos., 168 E 91st
 Steiger, Charles, 224 E 9th
 Stephens, Jeff. K., 122 Worth
 †Stevens, John W., 156 5th av
 Stevenson, Jas. T., 1133 B'way
 †***STEWART, JAS. & CO. (Large),**
 North American Trust bldg

†Stoddard & Hughes, 246 W 29th
 Storms, John J. & Sons, 138 W 90th
 †Story & Flickinger, 5 Gt. Jones
 Strand, Anton, 152 E 53d
 Streppone, P., 330 E 109th
 Stringer, James, 1962 Bway
 Stuber, Wm., 239th
 †Sullivan, Francis, 103 E 125th
 †Sullivan, Patrick, 230 Grand
 †Syndicate Construction Co., 177 B'way
 Talty Bros., 274 Columbus av
 †Taylor, William J., 7 E 42d
 Temple & Veraneau, 217 W 125th
 Tennant, John H., 4 7th av
 Theurer, Charles, 1051 Lexington av
 Thomason, Samuel, Walton av & 172d
 †***THOMPSON-STARRETT CO.**
 (General Building Construction), 51 Wall.
 (See adv. index, end of book)

Thompson, Walter E., 1123 Bway
 Thorburn, Donald, 177 E 123d
 Thornton Bros. Co., 1320 Clay av
 †Tide Water Bldg. Co. (Large), 25 W 26th
 Tigar, A., 164 William
 †Tolmie & Kerr (Large), 205 W 30th
 Tolosi, F., 1 Maiden la
 Trapp, Nicholas H., 17 Thames
 Trede Bros. & Herbert, Matilda nr E 242d.
 Wakefield

Tully Bros., 1473 Longfellow av
 †Turner, Ernest M., 1123 Bway
 †Turton, Jno. K., 1123 B'way
 †Udall, Jno. Clark, 29 W 34th
 Uhlig, Gustav, 219 W 68th
 †Unglich, L. K. & L., 1676 Amsterdam av
 Vail, Benj. H., 58 West
 *Van Aken, Chas. H., 148 W 4th
 Van Doorn, Wallace & Son, 229 W 36th
 †Van Houten, Erskine, 1181 3d av
 †Van Wagoner-Linn Construction Co., 110 W
 28th

†Varney, Geo. A. & Co. (Inc.), 156 5th av
 †Vassar's, Geo. Son & Co., 5 E 18th
 Vickers Construction Co., 162 W 50th
 Vickers, Lot, 162 W 50th
 Villaume, H., 1123 B'way
 *Vondendriesch, Albert (Large), 204 E 86th
 †Vought, Henry H. & Co. (Large), 112 W
 42d

†Vreeland, J. C. Building Co., 1 Madison av
 †Vainwright, Wm., Boulevard & Prospect av
 †Wakeham & Miller, 1133 Bway
 Walker, Geo. L. Co., 3424 B'way
 †Wallace, Robert, 266 Columbus av
 Wallace, Wm., 203 W 18th
 Walsh, J. F. & Bro., 175 E 82d
 Walsh, P., 420 W 25th
 †Walsh, Patrick J. (Large), 503 5th av
 †Walsh, Richard L. Co., 100 William
 Walsh, Robert, 336 St. Nicholas av
 †Walter, Edw. T., 85 Lenox av
 Waim & Messer, 62 E 9th
 *Waters, Edw., Ogden av & 163d
 †Waters & O'Connell, Park av & 135th
 Watson, E. H. & Co., 107 W 27th
 Watson, Thos. B., Jr., 122 William

Watt & Sinclair, 160 5th av
 Watts, William, 38 W 13th
 †Weber, E., 111 5th av
 Weber, E., 111 5th av
 †Weber, John & Sons, 12 E 23d
 †Weber, Louis Building Co., 1 Madison av
 Webster, Frank E., 451 Columbus av
 †Webster, Lewis C., 59 William
 †Wechsler, Louis, 1133 Bway
 †Weed, H. M. & Co., 124 W 45th
 *Weeks, D. C. & Son, 287 4th av
 †Weeks, Herbert A. Co., 24 E 28th
 Weiher, L. & W. F., St. Anns av & 158th
 †Weiler, Henry, 118 E 11th
 Weinberg & Sudzen, 506 W 146th
 Weinstein Bros., 741 Wendover av
 Weinstein, Chas. I., 3 E 109th
 Weitzer, A. & Sons, Amsterdam av
 †Wells Bros. Co., 160 5th av
 Wendt, Chas., 261 Pearl
 Werner, Wm., 894 Forest av
 †Westervelt & McIntyre, 290 W 11th
 †Wexler, Adolph, Marion av
 Wey, Jno., 307 E 32d
 Whisten's, Wm. Son, 857 6th av
 White, John J., 213 W 81st
 *Whitely & Martin, 432 4th av
 Whitenack, J. Odell, 99 Vandam
 †Whitenack, John H., 99 Vandam
 *Whitney, A. R., Jr., & Co. (Large), 135
 Wiener & Palevitz, 1164 Union av B'way
 Wile, Chas., 39 E 42d
 Williams, Jas. C., 241 W 125th
 Williamson, Sidney, 92 E 224th, Williams-
 bridge

†Wills, Chas. T. (Large), 156 5th av
 Wilson, Andrew, 53 Rose
 †Wilson, Bernard, Riverside drive & 127th
 Wilson, J. B., 11 E 10th
 Wilson, Jas., 124 W 50th
 Wilson, M. S. A., 68 W 109th
 Winberg, William, 15 E 13th
 Winkler, Frederick, 304 Columbus av
 Winne, Andrew A., 100 W 49th
 †Wiswell & Polley, 765 E 166th
 Wittner-Jaffer Realty Co., Amsterdam av &
 Wolf, I. I., Jackson av & House 111th
 Wolf, Morris, 303 W 117th
 Wolf & Rothstein, 67 E 111th
 Wolkenberg, Jos., Brook av & 141st
 *Wright, Garret S., 421 W 24th
 †Wright, Wm. H. & Son (Large), Valentine
 av & 192d

Wright & Brown, 304 W 25th
 Wright & Roe, 40 E 20th
 *Wright's, Wm. Sons, 352 W 16th
 Yogg & Juditsky, 215 W 125th
 Young, Geo. T., 206 W 51st
 Young, Wm. Co., 550 W 41st
 †Zimmerman, C., Jr., 712 E 165th
 †***ZIMMERMANN, JACOB A.**
 (Large), 1358 B'way. (See adv. index, end
 of book)

Borough of Queens.

AQUEDUCT—(See Woodhaven.)

ARVERNE—Jorgensen, Jno. C.

Schoncke Bros.

Stult, Geo. F., Verman av

CEDARHURST—Davison, Oliver S.

Vandewater, D.

CHESTER PARK—Drake, Adiah W.

CORONA—Harter, Jos., High

DOUGLASTON—Hamilton, Wm. J., Pine

ELMHURST—†Card, W. C.

Ficklen & Stobaugh, Hoffman boul

Lurz, Frank, 7 Plain

EVERGREEN—Bock & Bartz, 1607 Greene av

Boesch, Andrew, 199 Cooper av

Dreher & Kuntz, 478 Grove

*Lueia & Bro., 317 Woodward av

FAR ROCKAWAY—Burkander, Wm., Pinson pl

Fulcher, Chas. A., Grove nr Cornago av

Gay, Albert, Cleveland av nr Central av

Kaiser, Geo., Remsen av

Roehe, Edward, Grand View av

†Rosenzweig, I., Washington av & 180th

FLUSHING—Boyle, Jas., 189 Union

†Combs, Lewis V., 286 State

Ficklen & Stobaugh, B'way

Fowler, Jos. B., 151 Washington

Johnston, Jno. C., 402 Amity

McKee, Frank S., 61 Larch

†Richardson, Edw., 43 Percy

FOSTERS MEADOW—Chivers, Edw., Ocean av

Hendrickson, Samuel D., Rosedale av

Hubner, Jos., Grand av

GLENDAL—†Evans, Robt., Tomp av

Moskowitz, Samuel, Myrtle av

Thomsen, Fredk., Webster av

Wagner, Frank, Myrtle av

HOLLIS—Germond, Wellington

Sprague, Frank, Farmers av

INWOOD—Merritt & Safford

JAMAICA—Bangert, Valentine, 34 Orchard
Barnes & Howell, 38 Guilford
Black, Jos., 101 Lowell av
Carlin, P. J. Construction Co., Hardnabr av
†Carmen, Fred'k E., 101 Harriman av
Hoffman, Chas., 21 Ackroyd
†Mazzel, Dominick, Brown av
Post, Silas B., 502 Fulton
Meyn, Henry, Columbus av
Mullen, H. J., Fulton
Sussman, Adolph, Dewey av

LAWRENCE—Smith, Jno. H.

LONG ISLAND CITY—Brah, Jno. N., 288 Crescent

*Clifford, Wm., 387 Hauck
†Couch, Wm., Main cor Woolsey
Doolittle, Jno. A., 281 Borden av
†Fischer, Geo. & Co., 406 12th av
Geiser, Jos., 835 Albert
Gross, Erse, 184 Chestnut
Herold, Christian, 223 Lockwood
Koch, Wm., 543 Steinway av
†Loud, F. F., Fulton av
*Maley, S. W., 189 7th
McGarry, Wm. P., Debevoise av
Moore, John W., 195 12th
Mulligan, Jas. J., 337 Steinway av
Scirino, Tony, Paynter av
Smith, John, 491 Radde
Thomson & Fitzpatrick, 430 Jackson av
†Van Riper, F. G. & G. T., 24 Jackson av
Weeks, D. C. & Son, Gale
†Woodruff, C. Curtis & Co., 213 10th
Woodruff, J. T. & Son, 65 3d

MASPETH—Callaghan & Roulet, Columbia av

MIDDLE VILLAGE—Hendel, Andrew, Morton

OZONE PARK—Jacobson, Alfred, B'way av

RICHMOND HILL—†Brand, Edwin V., Garfield

†Brush, Gustave, Ward
†Clapp, Henry B., Lefferts av
Clegg, Robert, Lefferts av
†Cullingford, Howard J., Chestnut
Davis, Geo. P., Jamaica av
Nelsen, C. M., Elm
Randall, O. A., 94 3d
†Richard, J. F.
*Strauss, B. C., Jamaica av
Thornton, M., Chester pk
Voltz, Albert, Oak

SPRINGFIELD—Decker, Wm. N., 5th av

WEST ARVERNE—†Schoncke, Bros.

WINFIELD JUNCTION—Cockerill, T. & Son,

Rose & Loerner, Fiske av Maurice av
Tymann, Christian, Madison av

WOODHAVEN—†Singer, Chas., Woodhaven av

Sutter, Jno. F., Woodhaven av

Borough of Richmond.

DONGAN HILLS—Vreeland, A. B.

FORT WADSWORTH—*Lee, Wm. S.

GRANTEVILLE—Skerritt, F. H.

MARINER HARBOR—Bailey, Robert & Son, 18 Lockman av

Hedden Const. Co., Richmond ter

NEW BRIGHTON—Brabyn, Edwin, York ter

†Cahaline, Daniel J., 23 4th av

†Lyon, Robt., 96 York av

Norman & Young, 1st

Ripley, David, 35 4th av

†Sullivan, Jas. D., 31 Tyson

White, Harry, 81 1st av

PLEASANT PLAINS—Ryan, Daniel J.

PORT RICHMOND—Conklin, H. M., Richmond

ROSEBANK—Guastavino, Thos. & Son, ter

Langere, Raphael, Chestnut av, Clifton

Tuastavins, Thos.

ST. GEORGE—Vreeland, J. C. Building Co., Hyatt

STAPLETON—†Beinert, Chas., 123 Richmond rd

Mahr, Wm., 152 Gordon

Paul, E. E., Canal

*Rinschler, Frank, Sand

†Wolf, Philip, & Son, 14 Wright

WEST NEW BRIGHTON—Attridge, Jno. F., 5 Richmond

Winans, John, Bmnt. av

(END OF NEW YORK CITY)

NIAGARA FALLS—Allen, Fredk. J., Walnut av

*Cowdrick, W. J. S. & Co., 520 2d c 2d

†Finnell, John H., 450 Elmwood av

Haeberle, Mrs. Charlotte, 942 South

Hotchkiss, F. P., 219 2d

Hughes, H. L., 1758 Cudabach

†Lennon, Jno. Son & Co.

Reese, Jacob W., 1911 Lockport av

*Sandstrum, John & Son, 539 9th

*Shepard, William A., 701 Pine av

Snyder & Gillett, 911 McKoon

†Stembrenner, Carl, 1339 Cleveland av

NORTH TONAWANDA—Allan, Wm.

†Gemlo, Jno.

†Thompson, Hubman & Fisher (Large)

NORWICH—Aldrich, Geo. W.

Beekman, F. L.

NYACK—†De Baun, M. W. & H., 28 Jackson av

Goble, F. N., Burd

†McElroy, Charles

†Post, John H., 19 Bridge

OCEANUS—(See New York City, Borough of Queens)

OGDENSBURG—†Flora, P., 51 New York av

Hand, William S., 116 Franklin

†Whalen, Thomas, 30 Catherine

OLEAN—Donahue, Ed.

Gillingham & Son

Goltz, F. W.

Miller & Sheldon

*Taylor, B. U. (Large)

Wetherill, James

ONEIDA—†Johnson, L. H.

ONEONTA—Briggs, N. H. & Son

McFee & Borst

†Packer, J. W.

OSSINING—Murphy, Thos., Briarcliff rd

Powers, Wm. O., Bellevue av, W. H.

Ross, Chas., 51 Aqueduct

*Valentine, Eli, 1 Terrace av

OSWEGO—Barnett Const. Co., 119 Water

Bell, Alfred T., E River rd

†Cochrane, James K., 41 W 4th

Foley, Hy. R., 176 W 7th

†Harding, Jas. C., 50 W Bridge

†McLaughlin, Anthony, 60 Mitchell

†Paine, A. & Sons, 142 W 2d

Raby, Peter, 23 W Cayuga

†Ratigan, James F. & Co., E 11th & Mercer

†Smith, Augustus H., 140 W Seneca

White Const. Co., W 1st & Mowhawk

OWEGO—†Bower, M. L.

†Ford Bros. (large)

OZONE PARK—(See New York City, Borough of Queens)

PATCHEGUE—Payne, Frank

PEEKSKILL—†Hopkins, Requat & Hopkins

Lamos, C. A.

Rustic Const. Co.

Smith, John, Jr.

Thompson & Baxter

PENN YAN—Kelly, Charles

PLATTSBURG—†Buckley, Jno. C., 57 Court

Buckley Const. Co., 21 Clinton

PORT CHESTER—†Alves, Conrad

Merritt, J. F.

Mertz, W. J.

*Nethercott, Jno. J.

Weir, James

Williams, C. H.

PORT JEFFERSON—Jones, Herbert C.

PORT JERVIS—Murrian, Patrick, 13 Crawford

PORT RICHMOND—(See New York City, Borough of Richmond)

POTSDAM—Moore, D. A. & W. A.

POUGHKEEPSIE—Burnett, Wm. E., 232 Main

Central Hudson Const. Co., 33 Market

†East, James E., 142 Pine

Madsen, Fred, 1 Grove

Ridgeway, S. B., 385 Church

Rust, Wm. H., & Son, 363 Mill

Smith, Jas. W., 25 Conklin

†Titus, Willet, 59 Catherine

PRINCE BAY—(See New York City, Borough of Richmond)

QUEENS—(See New York City, Borough of Queens)

RENSSELAER—Sitser, Fred P., 1114 3d av

Zepp Bros., 2 4th av

RICHMOND—(See New York City, Borough of Richmond)

When writing to firms

whose names appear

in this book please

mention

HENDRICKS'

COMMERCIAL

REGISTER.

RIVERHEAD—†Hempstead, Chas. H.

ROCHESTER—Avery, Arley M., Exchange pl bldg

†Boogert, Herbert, 56 Sullivan

Bristol, Herbert L., 567 Averill av

Clark, Eber R., 16 Tracy

†Congdon, Richard, 98 Albemarle

†Denniston & Co., 39 State

Enders, P., Rustic n Clifford

†Etts, John W., 207 Frost av

*Ferge, George F., 22 Henrietta

*Ferge, Stephen, 28 Bly

†Finucane, T. W., Co., 3 Elton

*Frederick, A. & Sons Co. (Large), E. & B.

†Gardner, Frank J., 298 Bernard bldg

*Garrison, G. B. (Large), 4 Walton

*Gorsline, Swan & Rice, Powers bldg

Hack, Adolph, 7 Englert

†Hammill, J. P., 5 Bauer

†Harris, J. D., 174 Harvard

*Hasenauer, Chas., 506 Bay

*Hauck, Peter G. (Large), 55 Lincoln

†Hetzler, Charles, 330 Smith

†Hilenbrandt, John N., 30 N Water

†Hoffman, C. J., & Sons, 3 4th

Hoffman, G. F. & O. W., German Ins. bldg

†Hopeman, A. W., 39 Lake View pk

Horn, Chas. L., 309 Joseph av

Hosenfeld, Leo, 16 Cayuga

Howe, William, 505 Av D

†Husmann, Henry, 1 Carl

Ingran, Geo. P., 53 Berkeley

*Karweick, John & Son, 48 Rauber

*Keller, George, 208 Av A

King, W. H., 395 Hayward av

†Knapp, Homer, Triangle bldg

*Knapp, Lincoln F., 250 Garson av

Kreckel, J. C., 17 Cayuga

*Krewer, Michael, 323 Wilder

La Force, Martin, 69 Remington

*Lauer, Harvey M., 785 Portland av

Lays, Edward J., 35 S Water

†Lester & McMullen, 9 Basin

Levin, William, 10 Rhine

†Link, A., 654 South av

†Luther, John, & Sons Co., 162 North

McKibbin, Daniel S., 7 Cobb

†Marson, Wm. H., 463 Exchange

*Meyer, Joseph, 51 Scranton

†Montgomery, Wm. J. & G. E., 605 E. & B.

Patterson, R., 48 Jefferson av bldg

Perkins, W. A., 308 Plymouth av

†Pike, John B., 13 Minerva pl

†Rapp, Fred. H. & Co., 401 Granite bldg

Rice, Henry, 85 S Union

†Salter, Thomas, 118 Frost av

†Sauer, F. J., 31 S Water

Seitz, F. C., 207 Hudson av

Stewart, J. L., 230 Lyndhurst

*Strauchen, Edward, 309 Portland av

*Strauchen, John R., 5 Brinker place

Stuart, H. E., 33 S Water

*Summerhays, Wm. & Sons, 9 Exchange

*Thiem, Herman C. & Co., 963 St. Paul

Tosch, Herman, 600 Joseph av

Van Alstyne, A. W., 17 Carleton

†Vanderwerf, J. A., German Ins. bldg

Vanderwerf, L., 379 Alexander

†Wagner, J. G., 20 Leopold

Wegman, George, 720 N Clinton av

Williamson, R., 165 Brown

†Ziellnski, Stephen, 543 Hudson av

ROME—†Burney, T. E.

†Gerwig, J. W.

ROSEBANK—(See New York City, Borough of Richmond)

ROSSVILLE—(See New York City, Borough of Richmond)

SANDY HILL—Beaulac, P., Jr., Richmond

†Cunningham, Jno. J.

Cushing, M. E.

Dickens, A. J.

Grant, Jno.

Smith, M. M.

SARANAC LAKE—†Branch & Cahaman (Large)

SARATOGA SPRINGS—Case, W. J. & Son, 45 Phila.

Crocker, Harry, 63 Putnam

Robertson, Wm. S., Putnam

SAUGERTIES—Cunyes, Norman

Howard, L. B.

McNally, Geo. W.

Valkenburg, N. R.

SCHENECTADY—†Caw, Wm. G., 29 N Ferry

†Conway, J. M., 423 State

Dickhoff, Samuel, Hulett & Delmont av

†Ferguson, John, 101 Brandywine av

†Hanigan, Edw., 24 Nott ter

Hamahan Bros., Craig & Lincoln av

*Kinum, Andrew, 119 Park pl

Service, B. J., 923 Delmont av

†Simkins, A., 325 Schenectady

†Wellman, Walter, 928 State

SENECA FALLS—Fletting, F. W.

†Stahl, Peter A.

SIDNEY—†Hall Bros. (Large)

†Jameson, Jas. (Large)

SOUTHAMPTON—*Corrigan, Edw. J.
Donnelly & Corrigan

Enoch, R. W.
White, Wm. H.

SPRINGLAND—(See New York City, Borough of Queens)

STAPLETON—(See New York City, Borough of Richmond)

SYRACUSE—Avery, Jno. M., 1509 Park

Baker, F. J., University blk

†Baker, James E., 216 Tallman

Ball, Jno. C., 334 Bryant av

Borst, Wm. D., 1406 1st, North

*Bowler, Jno. S., 1913 S Salina Onon

†Broadhurst, Isaac H., 313 Herkimer

Brown, Chas. R., 1711 S State

Brown, Everett H., 729 S Beech

*Burchill, John & Son, 227 W Kennedy

*Burns, Wm. J., 1101 N State

*Bustin, John W., 415 W Onondaga

*Carr, William, 113 B Castle

Case, Chas., 410 Hamilton

Consolidated Eng & Const. Co., Syracuse

†Coon, Thos., 142 Fitch Sav. Bank bldg

Cottet, Alvin, 440 Cortland av

Crofoot, Hy. W., 111 Norris av

†Crossett, Jas. J., 824 Dudley

Darrow, Geo. P., 119 E Castle

*Dawson, J. W., Syracuse Univ. Campus

*Detor, Geo., 808 Kirkpatrick

Dickison, Wm. & Son, 521 W Onondaga

Dunfee, Jos., Dunfee bldg

Ennis, Wm. A., 328 Green

Fournier, Maxim E., 114 Burt

Funda, Heury, 553 N Geddes

Gill, John D., 406 Westcott

†Grossman, Wm. M., 106 Delaware

Harrington, Jno. C., 106 Mildred

†Hayden, Oscar E., 139 Furnam

Hepperman & Son, 500 Canal

†Hefferman, Timothy, 124 South

*Hemmer, John's Sons, 213 Sunset av.

Hoskins, Wm. S., 376 W Fayette

Iroquois Const. Co., 603 Dillaye bldg

*Kai, Fred., 208 Amherst av

*Kelly, Daniel, 552 Seymour

Kinney, Michael J., 220 Corning av

†Kimmey, Frank M., 1210 W Onondaga

*Lane, Daniel, 806 Vine

*Lane, Dennis, 222 Lincoln av

Lane, Maurice F., 230 Cortland av

Lee, John, 313 Burt

*Lohmanu, Louis, 826 Park

McCarthy, Wm. H., 2204 S State

†Mahlerwein, Geo., 103 W Kennedy

Marnell, Thomas, 319 N Franklin

*Murphy, David, 234 Lincoln av

National Construction Co., 637 University blk

*Nicholson, David W., 610 Bear

†O'Brien, Thomas, 639 Madison

*O'Brien & Hoolihan (Large), 1718 Park

Olcott, Courtland T., 221 McLennan av

Paige, Albert E., 117 Onondaga av

Rapelje, H. B., 120 S State

*Reichel, Hy., 106 Oberst

*Reid, Jno. J., 239 Baker

Schuyler, Geo. A., 113 Herkimer

Scullin, Frank, 1508 S Salina

Sheedy, Jas. J., 305 Graves

Sherlock, Jno. J., 306 Hawley av

†Sherlock, Wm., 411 Canal

Slocum, H. S., 200 Amherst av

†Smith, Chas. J., 101 Dillaye av

Smith, Edw. C., 411 Elm

Spicer, Jas. S., 330 Hatch av

Sprague, Henry J., 143 Wood av

Stewart, John A., 210 Woodland av

Stipp Construction Co., State Armory bldg

†Strickland, Fred. W., 206 W Kennedy

Thater, Wm. A., 212 Griffiths

Thayer, Geo. E., 1665 S Salina

Thompson, Howd. F., 230 Merriman av

*Trett, Wm. J., 218 McLennan av

†Umbrecht, Charles, 214 Prospect av

Warwick, Jas. C., 125 Hope av

Wells, Irving, E Onodaga

TARRYTOWN—Blouin, Alfred

†De Rever, Irving

Murphy Const. Co.

†Page, David

TOMPKINSVILLE—(See New York City, Borough of Richmond)

TONAWANDA—†Rangham, O. W.

Trautman, W. B.

TOTTENVILLE—(See New York City, Borough of Richmond)

TROY—Acker, Joe., Gurley av

*Boland, Chas. P. Co., Times bldg

Buckley, H. P. & Co., 11 Craigen av

†Bulmer & Haynes (Large), Front nr Fulton

†Campbell, Wm., 30 Grand

*Cary, Robt. T., 1704 Highland av

*Dollard, James (Large), 200 9th

Doyle, Jno. F., State & 2d

†Duncan, Charles (Large), Spring av & Hill

*Ellis, Jno. E., 14th & Hoosick

Gontier, Edw. 42 3d

Hudson Valley Const. Co., Times bldg

*Kelly, Edward, Brunswick rd

Lee, John H., 96 Oakwood

†Martin, Wm. E. (Large), Front nr Grand

Miorin, Anthony, 107 Church

*Morrissey, James H., 371 2d

*Nail Bros. Construction Co., head of Douv

Spence, Geo. & Son, 181 Church

UTICA—Baxter, Jno. R., Jr., U. C. N. B. bldg

Camelo, Wick, 639 Bleeker

Corbett, John, 231 Rutgers

Dewhurst, Johnson C., N. Genesee, Deerfield

Godfrey, E. C., 144 Albany

*Griffiths & Pierce, 72 Charlotte

*Hughes, Jno. F. Construction Co., 33 Char-

Hunter, M. H. & Co., 44 Whitesboro lotte

Jones, Wm. H., 733 Mary

*Jones & Shippy, 124 Elizabeth

†Lloyd, Richard G., 39 South

*McDermott & Lancaster, 107 Washington

Patriarca, Jos., 644 B'ker

*Richards, Richard & Son, 42 Elizabeth

Roberts, H. W. & Co., Mann bldg

†Roberts & Williams, 70 Charlotte

Schawb, John D., 73 Lansing

Shetler, Homer E., 330 Neikon

†Thomas, Phillp Sons, 137 Kemble

Utica Stone & Const. Co., 722 Genesee

†Williams, John R., 24 Blandina

Yeomans, D. A., 63 South

WALDEN—Crawford, Jas. L.

Kidd, Willard

Wooley & Sinsabough

WALTON—Houck, Chas. G.

WARSAW—Burlingame, Chas. A.

Clemmens, Geo. D.

Town & Crawford

Williams & Christ

WATERFORD—Clement & Sons

Hamilton Cont. Co.

O'Connor, B., 30 4th

Robertson, Thos. J.

Sherman, Chas. P., Ballston nr 3d

WATERLOO—†Barlow, Moses

†Lawrence, W. B.

WATERTOWN—Bingham, Peter, Otis bldg

†Brennan, Hodge & O'Brien

Burns, C. C., 41 Franklin

†Case & Folsom, 12 River

Caswell, F. A., Flower bldg

Charlesbois, A. A., 73 Main

†Charlesbois Bros. (also Mfrs.), 85 Factory

†Cleveland, M. L., 40 Ten Eyck

Hodge, C. D., Flower bldg

Kenuey, W. E. & Co., 16 Stone

Semper, W. J.

†Townsend, Geo. F., 2 Goodale ct

WATERVLIET—Borier, Frederick, 530 6th av

Carr, Matthew J., 5th c 6th av

Le Page, Edw., 215 14th

*Nolan, Michael W., 715 23d

Preston, Richard W. & Son, 3d c 5th av

Sheehan, Thos. F., 18th nr 6th av

Smith, Jno. T., 1221 6th av

Young, Jas. T., 19th nr R R

WATKINS—Coughlin, John

White, George R.

WAVERLY—†Baldwin, H. J. & Son (Large)

WEST BRIGHTON—(See New York City, Borough of Richmond)

WEST NEW BRIGHTON—(See New York City, Borough of Richmond)

WHITEHALL—Edmunds, W. J.

WHITE PLAINS—Brown, Chas. F. & Son

Coon, Lewis

Higgins, Frank G.

Holden, Patrick

Holden, Thos.

Locke, Wm.

Miller, Geo. L.

*O'Rourke, John

Smith's, Stephen W. Son

Sonberg, August

Vermett, J. T.

Waite, Emmet E.

WHITESTONE—(See New York City, Borough of Queens)

WOODBURG—(See New York City, Borough of Queens)

WOODHAVEN—(See New York City, Borough of Queens)

WOODSIDE—(See New York City, Borough of Queens)

YONKERS—Abbott, Wm., 369 S B'way

Arnold, C. F. & Son, 58 N B'way

Bark, Henry & Co.

Biddinger, Chas. H., 21 Union pl

†Brewer, W. B., 24 Poplar

*Bruce, Alexander, 357 Walnut

Chadburn & Edwards, 109 Linden

Charlton & Weston, 15 Lockwood av

Craven & Westerfield

*Dawson, Alexander A., 29 John

Earl, Wm. J.

*Falasco & Polito, 82 School

Fennell, Augustine A., 66 Vineyard av

Ferrier, Marshall R., 15 Cliff

Flagg Bros., 57 Armstrong av

*Flannery, P. J., 90 Vark

Forsyth, Jno., 80 Livingston av

Gower, Fielding, St. Andrews sta.

Hall, Henry, 555 Van Cortlandt Park av

Hall, J. J., Midland av

†Halsey & Bro., 6 Wells av

*Hendricksou, Geo. R., 20 Ritter's pl

*Kelly, Geo. T., 14 John

Kempton, B. F.

Kingsley, Jno. J.

Leonhardt, Matheas, 358 Ashburn av

Lutkins, Andrew R., 165 Highland av

*Lynch & Larkin, 165 Riverdale av

Mackay, K., 64 Main

Mallison & Phillips, 17 John

*Mangini, Nicholas, 177 Waverly

*Marotta, Vincent, 112 New School

Mee, F. B., 3 Bashford

Murray, Jno. J.

*Peene & Garthwaite, 4 Glenwood ter

Pennell, Jos. B., 224 Buena Vista av

Pyne, Thos., 71 Fairview

Quick, S. F., & Sons, 3 Atherton

Scott, Oliver John, 40 John

Smith, Geo. A., 62 Cornell av

*Stewart, Robert L., 38 Wells av

*Sutherland, Spencer K., Lewis p'kway

*Suterland & Cutbill, Fernbrook

*Stewart, R. L., 38 Wells av

Walsh, Michael, 117 Palisade av

Wilson, Robert D., 245 Orchard

Wood, Eber S., 40 Park Hill av

NORTH CAROLINA.

ASHEVILLE—†Kelly & Felthaus

†Revell, Oliver D.

Smith, Geo. G.

Stiles, Harper (Brick)

†Tennent, J. A.

†Westall, J. M. (Large)

BURLINGTON—Kirkpatrick Bros.

Mitchell, A. C.

CHARLOTTE—†Ahrens, F. W.

†Asbury & Finger

†Cochrane, W. A.

Hunter & Vaughn

Jones, J. A.

Propst Const. Co.

WINSTON SALEM—Bowman, E. C. Co.

†Fogle Bros. (Large)
Lohmau, Chas.
†Miller Bros. Co. (Large)
Morgan, T. C.
†Pitts, R. H.

NORTH DAKOTA.

BISMARCK—Bowie, W. W.

Lovin, Nils H.
Rhud, Hans C.

FARGO—Allen, Henry E.

Anderson & Johnson
†Bowers Bros.
†Campbell, J. S.
Hogau, Andrew S.
Jenson, H. B.
Kennedy, Jas.
Marden, J. H. & Co.
Schlauser & Ostbye
Spear, J. M.
†Wilson, Stewart

GRAND FORKS—†Bailes & Perkins, 314 Alpha

†Bjornstad, E. N., 316 Belmont av
Brown, Fred J.
†Dinnie Bros., 314 Alpha av
†Eikhof, Jno., 206 S 3d
†Hunter, K. C., 304 Int'l av
Roberts, Robert E.
†Turner, A. F., 411 N 5th
*Woodruff, John C.

JAMESTOWN—Hotchkiss, H. C.

Norton, W. A.

MINOT—†Tentsch, Eugene

VALLEY CITY—Lenhard, Edw.

†MacDonald, Duncan

WAHPETON—Blanchard, Jno.

Northwestern Construction Co.
Peterson, A. G.

OHIO.

ADA—Anspach, D. M.

AKRON—†Akron Lumber Co., 1027 W Main

†Briggs, C. L., 68 Beck av
†Brown, Jas., Hamilton bldg
†Carmichael, Geo. W. & Co. (Large), Hamilton bldg
†Clements & Allen
*Crisp, Geo. & Son, 71 Summit
*Crisp, Jno. & Son, 951 Johnson
†Dietz Lumber Co.
*Franklin, W. A., 327 Cuyahoga
†Frederick, U. G. Co.
†Hankey Lumber Co.
†Heny, Hiram C., 204 Torrey
*Hugill, Geo. C., 114 S College
†Hunsicker Bros., 204 Hubbert av
*Hunt & Wigley
†McClellan, Wm. A., 305 Water
†McMillen, O. L., 92 Good
*Miller, A. C., 107 Buckeye
†Petit & Abbass, 1172 Mancey
*Ruysen, J. M.
†Sprigle, E. P., 220 Pine
*Stambaugh, A. C., 123 S Balch
†Star Planing Mill Co.
†Summit Lumber & Building Co., 110 W State
†Swain, Jos., 306 Crosby
†Weaver, J. C., 123 Oakdale av
†White Lumber Co., 212 River
†Wilson, N. C. Lumber Co., 888 S Main
*Windsor Brick Co. (Large)
*Winnefeld, Henry, S. Maple
*Wohlfield, Frank & Co.

ALLIANCE—Applegate, M. & Son

†Boone, Robert M.
*Devine, J. C.
†Jollet, S.
Miller, E. L.

ASHTABULA—Bailey, Emmett

†Bailey, E. E.
†Baldwin, W. E.
†Beekman & Hedbury
*Clifford, Walter
†Drumeller, S. P.
*Hall & Salisbury
†Hopkins & Agler
Riggs & Jones
Smith, Frank H.
Tinley, M.
Williams, J. P.

ATHENS—Bahr, C. W.

Davidson, Bart.
Kircher, C. P. & Co.

BARBERTON—†Jackson Lumber Co.

BELLAIRE—Hallarbeck Contract Co.

Houston, A. L. (Brick & Stone)

BELLEFONTAINE—Coleman, H. F.

Defenbaugh, Wm.
Filson, A. R.
McLean, S. W.
Parker Bros.

Shank, Chas. D.

Woodside, George M.

BLUFFTON—Althouse, Ewing & Co.

BRIDGEPORT—Loe, O. B. (Brick)

CAMBRIDGE—Bayless, H. J.

†Forney, Chas. W. (Large)
Guernsey Brick & Cons. Co.
Harriis, J. M.
†Hoyle & Scott (Large)
†Jackson, James H.
Persons, Fred. F.

CANAL DOVER *Hammond Bros.

Maurer, Chas. W.
†Wentz, F. & Co.

CANTON—†Bostick, Cyrus S., 1227 S Cleveland

†Bostick, Cyrus S., 1227 S Cleveland
†Bowen, C. E., 719 S Cleveland av
†Brumbaugh, Samuel, 1521 E Lake
†*Castell, A. & Co., 400 Springfield av
Cowell, A. K., 317 Greenfield av
Gonder & Gonder, 1124 S McKinley
Heffner, W. E., 514 Fulton
Hill, Edw. C. & W. F., Cedar st
Huff, K. E., 1528 S Market
Kilgore, C. M., 913 W 8th
McQueen, J. N., 126 N Cleveland av
Van Kirk, J. L., 1231 Worley av
†Whlke, Geo. H., 1408 Woodland av

CARTHAGE—†Denman, Wm. L.

†Hamilton, W. H.
Hellming, August & Co.
†Ismael, Geo. A., Jr.
†Lang, Jos.
†Long, Jacob C.
†Nieber, Geo. F.
*Richert, Alois (Stone)
†Wiley, Wm. F.

CHICAGO—Andrews, S. P.

†Williams, W. A.

CHILLICOTHE—Banks, Jacob

Gartner & Riehle
*Litter Bros. 5th & Ewing
McIntyre, Jerome
Pfaff & Smith

CINCINNATI—Albrecht, Jno., 3751 Borden

Anders, Geo. E., 1745 Westwood av
Aufdenbrinke & Son, 19 W Canal
*Ausdenmore, Henry (Stone), 916 York
Baker, Ross, 4706 Harris
Bagley, Jas. M., 8 Erie av
Bankers Const. Co., 3 Union Trust bldg.
Bell, W. R. (Brick), 1623 Bruce av
Beckmann, F. W., Dayton & Whiton
Behrens, Henry & Co., 15 E Baker
Bell, W. R. (Brick), 1623 Bruce av
†Belmont, Louis, 2177 Gilbert av
Bentel Bros., 3250 Montana av
Bernard & Stoehr, 303 Falk
Bice, Edward, Roanoke Flats
Bohne, Henry, 1767 Powers
Britt, Chas. E., 509 Hopkins
Brockmann, John H., 1608 Logau
Burke, John, 407 E 5th
Casey, Lawrence J., 4245 Brookline
Cleary Const. Co., 319 Central av
Colter, Archibald, Vlnet & Longworth
†Cotterall Building Co., 5th & Main
Cramer, W. T. V., 22 Wiggins blk
Dale, J. C., 220 E 6th
Dillon, Chas. H., 4231 Turrill
Douthwait, Frank (Brick), 4325 Virginia av
Dreyer, John B., c Livingston & Linn
Easley Bros., 18 W 7th
Eickbusch, Herman, 1629 Dndley
*Ellis, W. H. & Co. (Large), Mitchell bldg
Epperhart, Jno. H., McMakin av & Wluton
Erment, Albert, 623 Rockdale av
Evans, Ben., 705 B'way
Evans, Evan (Brick), 1226 Ida
Farrell, P., 8th & Plumb
Fay, M., 808 Kenyon av
Fischer, Henry, Harrison & Washington avs
Fitzpatrick, W. R., 431 W 4th
*Franke, Henry (Stone), 2732 W 6th
Fuerst, Cornel & Son (Brick), 2287 Vlnet
Funke & Glazer, 6th & Stone
Gilfillen, Frank, 1624 Bruce av
Gilfillen, Sam'l, 4215 Turrill
Glazer, W. A. & Co., 701 Hunt
Goldkamp, Louis, Vlnet & Liberty
Goodman, John, 2133 Montgomery rd
Gorman, G. A., 1050 Central av
Gough, N. A., 2328 Symmes
Green, W. T. & Co., 217 E Pearl
†Griffith, Jas. & Sons, Reading rd & E
Hardiman, John, 2585 Sage av
Harders & Joehnk (Brick), 434 W McMicken av
Harig, Henry & Co., 31 E 4th
Hazen, L. P. & Co., Reading rd & Elsmore
Heiner, Anthony, 2058 Colleram av
Heister, Peter, 231 Main
Henkel & Sullivan, Mer. Lib. bldg

Hillebrand, J. F. & Son, Bevis av & Duck-

Hlunniger, Jos., 124 Dorsey creek rd

Hoffmeister, Wm., 67 Railroad av

Hollfelder, Jno., 2325 Guy

Holtzner, H. E., 1618 Lincoln av

*Hummel, David Bldg. Co. (Large), 2629

Spring Grove av

Hunt, Geo. A., 954 E McMillan

Huff, Chas. E. & Bro. (Brick), 314 E 6th

*Ireland, Chas. W. (Brick & Stone), Bldd-

ers' & Traders' Ex

Jackson, Jas. E., 2200 Symmes

Jacob, Frank (Stone), 105 Gage

Jacob, Henry B. (Brick), 18 Mulberry

James, O. A., 2042 Ross av

Jasper, Hy., 3074 Massachusetts av

Jewell, John A. & Son (Brick), 1612 Hopple

Jeynes, Jas. W., 630 Shillito

Kirchner Construction Co., 8th & Plum

Klittering, S. W., 2636 Fenton av

Lacker, John (Stone), 2911 Sander

Langhorst, Fred., 1907 Western av

Lauber, A. C., 941 Enright av

Lederman, Max, 615 Sedam

Lelmann, Wm. & Bro., 2321 W Clifton av

McCarthy, Ed. A., 210 E 8th

McDermott, Jos., Builders' & Traders' Ex

McKinney, Edmund J., s s Monlton av, e

of Crestline av

†McLennan Bros., Pickering bldg

McMiller & Taft, 1308 Central av

Marcus, M., Building Co., 1515 Plum

*Mason, Geo. E. (Brick), 129 Builders' &

Traders' Ex

Meinken, Dietrich, 2118 Western av

Mersch, F. & Sons, 1550 Freeman av

Meyer, Anthony, 832 Laurel

Miles, Eugene, 3837 Edgewood av

Miller, Wm. & Son, 2020 Elm

Monroe, Chas. H., 4216 Fergus

†Morton & Johns, 413 E. 2d

Murr, Samuel, 68 Race

Naylor, M. E., 2016 Eastern av

Nicholson Bros., First National Bank bldg

Otte, Fred, 1924 Western av

Patterson, Robt., 2525 Alms pl

Payne, Geo. B., 1705 Hewitt

Peacock, Samuel D., 12 E Commerce

Penker, Max & Son, 2112 Loth

Peters, F. & H., 219 Wade

Plump, G. H. & Sons, 1415 Mansfield

Powers, Henry D., Brewston av, Evanston

Rauen, Henry, 3602 Warsaw av

Rawlings, C. A., Builders' & Traders' Ex

Renwer, Fred. H., 1831 Sycamore av

Rinck, Chas. & Bro., 2409 Spring Grove av

Rolfes, John, 222 E 12th

Rosenbaum, Mendel, 831 W Court

Rosenstiel, Chas., 606 Hunt

*Rudd, W. R. & Bro. (Brick), 5th & Race

Rudig, Geo. H., 747 Barr

*Rudolf, Max (Stone), Marshall av s of

Probasco av

Ruebel Bros., Atlas Bank bldg

Schloss, A. & Co., 304 E 3d

†Schmitt, J. B., 216 E 6th

Schmitz, Jno. J., Observatory av e of

Schuberth, Wm., Jr., 239 Mill Herschel av

Schwalbach, Peter, 516 Klotter av

Scully Construction Co., Grand Opera House

bldg

Sheridan, Kirk Const. Co., Mer. Lib. bldg

Sieving, J. Henry, e s Trimble av nr Lang-

don av

Sperry, John & Son (Stone), 270 Calhoun

Stein, Jos. C., Wluton rd

†Steinbicker Bros., 953 W Court

Strathmann, Bernard H. (Stone), 29 Juergens

Sulau, Geo. 4234 Dane av

*Tappin, Samuel (Brick), 895 Blair av

Taylor, Chas. E., 1429 Cutter

Tillar, Bernard (Stone), 2229 Rice

Tueting, F. W., 2114 Loth

Ustick, Harry L., Mitchell, Hyde Park

†Vaughan, Geo. W., Sr., 133 Sycamore

Vonderhaar, Fred'k (Stone), 2740 Mass. av

Waldron, L. W., 426 Clark

Walton, Reuter & Co., Pickering bldg

†Weber, Adam, 4220 Spring Grove av

White, Oliver R., Brittany bldg

White, Thos., O., 705 B'way

White, Wm., 2509 Kemper lane

Wickware & Reif, 2913 Monfort

Wilson, Jas. B. Concrete Co., Neave bldg

CIRCLEVILLE—Fosnaugh, Henry W.

Hoffman, Frank

Salter, W. K.

CLEVELAND—Alber, Geo. J., 3543 Woodbridge

av, S W

†Alexander, Oscar F., Williamson bldg

Allen, Jas. T., 7100 B'way, S E

*Allen, Wm., 1229 Chestnut, N E

American Const. Co., Rockefeller bldg

†Anders, Carl, 411 Champlain av, N W

*Aring, Jno. F., Superior bldg
 †Austin, Samuel & Son Co., 1257 B'way
 Baldwin, Lewis L., 745 Giddings av
 Baldwin Bros. & Graham, Rose bldg
 Banse, John C., 9629 Steinway av, S E
 Bennett & Ody, 7016 Fullerton av, S E
 Bertram, Milton E., 113 Victoria av
 Biersmith, Thos. A., 2024 Seymour av, S W
 Blaha, Jos., 26 Athey
 Book Bros., 7410 Dellenbaugh av, N E
 Bodigheimer, Ignatius, 1785 E 89th
 Brightmore, Geo., J., 415 Champlain av, NW
 Bradley, Wm. & Son, Rockwell av, N E
 Briggs, C. L., Quincy av, S E
 Bronson, F. R., 7513 Spafford rd, S E
 Brown, Fred'k D., 77 Fowler
 Buckeye Cont. Co., Cuyahoga
 Burhenn, Wm. H., 10 Lorna
 *Campbell, Francis, 6404 Lex av
 *Carey, Anthony, 237 Dare
 Carpenter, David L., 732 E 105th
 Carter Construction Co., Citizens bldg
 Case, Charles A., 5712 Euclid av
 Caunter, Geo. & Son, Chamber of Commerce
 Christner, Jas., 1232 Euclid av
 Cleveland Const. Co., Citizens bldg
 *Collister, Jno. J., 577 Sibley
 Connelly Const. Co., The J., Schofield bldg
 Cook, Chas. B., 38 Lake View av
 †Cook, Geo. A., 3717 Archwood
 Coover, C. E., 1775 E 87th
 Corbett, Thos. A., 414 Herald
 Corrigan, Jay J., 56 Dunlap
 Couch, Jno., Florence ct, S E
 Crawford, Chas. S., 22 B'way
 *Crebbin & Clague, 6402 Scovill av, S E
 *Crockett, David, 1340 Russell rd, N E
 *Crockett & Doig, 6700 Whitney av
 *Dall, A. & Son, Lennox bldg
 *Dautel, Leopold & Son, 5710 Hough av, NE
 Davis, J. C., Garfield bldg
 Davis, L. C., 2172 Ontario
 De Lorenzo, D., 930 Woodland av, S E
 Dey & Henderson, 9518 Cedar av, S E
 †Diedrichs, Carl J., 14 Long
 Dobbett, Charles W., 1683 E 70th
 Dudley & Jones, Schofield bldg
 †Dunbar, Wm. & Co., 148 Champlain
 *Dunn, A. J. & Son, American Trust bldg
 *Esry, Geo. H., 4112 Woodbine av
 *Fath, C. H. & Son Construction Co. (Brick & Stone), Chamber of Commerce
 Feddersen, L., W Madison
 Ferguson, Albert R., S Euclid
 *Firchow, Julius P., Detroit & Edwards
 *Ford, Geo. P., 1326 W 95th
 Forchner, Chas. W., 265 Wade av, S W
 Forchner, John J., 312 Walton av S W
 Forchner, Wm. P., 3020 Clark av S W
 Forster, Henry J., 7015 Wade Park av
 *Franz, Fred'k, 306 Burton
 Freeman, Owen, 140 Taylor
 French, A., Detroit & Andrews av
 *French, Harry H., 693 E 99th
 Geissinger, Jos. R., 2174 De Forrest rd
 *Gill, John & Sons (Large), Citizens bldg
 Glard Const. Co., Perry-Payne bldg
 *Grant, John, 205 Cornell rd, S E
 *Grant, Jno. & Son, E 18th & Prospect av, S E
 *Griese, D. C., & Walker Co., 1417 Prospect S E
 *Griffin, Chauncey N. (General), The Arcade
 Haase, August, 1444 E 93d
 Hadley, W. S., Shaker rd & Miles av
 Hamby, J. W., Park bldg
 Hansen, Andrew J., 7316 Lawnview av, S E
 Harper, Geo. W., 2247 1/2 E 73d
 †Harris, Wilson & Son, 1897 W 3d
 Hayes, Friend J. & Co., 1186 Seneca
 *Heil, August, 159 Atlantic
 Heintz, J. C., Cedar
 *Henahan & King (Large), Chamber of Commerce bldg
 House & Douglass, 2782 Euclid av
 Hughes Bros. & Bangs, Hickox bldg
 *Hunkin Bros., Cons. Co., Cuyahoga bldg
 †Jepson, Wm. W., 78 Brightwood av, E C
 Johannes, Chas., 48 Ravine av
 Ketteringham, Edw., 3511 Clarke av
 *Kirschner, Philip & Co., Cuyahoga bldg
 *Klefmann, Henry, 140 Storer av
 Klein, F. W., 10208 St. Clair av, N E
 *Klein, Gregor, 9 Hoyt ct
 Knudsen, C. J., Seneca & Michigan
 Kurz, W. A., American Trust bldg
 Lafferty, L. S., Chamber of Commerce bldg
 La Grady, Frank J., 9403 Buckeye rd, S E
 Le Baron & Gebhardt, 5703 Linwood av, NE
 *Lindhorst, F. & D., Superior bldg
 Linsk, Jos., 5226 Fleet av, S E
 Little, Frank W., 51 Clement
 *Lloyd, Geo. W., 2454 E 100th

†McAllister, Wm. B. Co., 2165 E 31st
 †Marquard, Phil. Bldg. Co., 4201 Barley av, S W
 Marsh, Wm. E., 67 Mayfield
 Marthey, F. C., 2181 E 82d
 Masters & Mullen Const. Co., 858 Rose bldg
 Mercier, Theodore, 207 Waring
 Miska, Frank, 12 Fremont
 †Miles, Chas. F., 184 Robinson
 †Miller & Hall, Williamson bldg
 †Moore, Wm., 8 Court pl
 *Naylor, Wm., 149 John, Glnvle
 *Nehls, Jno. H., 349 Woolsey
 Nims, W. A. Co., 1441 E 9th
 *Noll, Chas. & Son, 2650 E 67th
 Norris, Amzi S., 2310 E 103d
 O'Neill, Wm. J., 1551 E 17th
 *Paul, Wm. T., 1796 E 89th
 Pennington, Alex. W. & Son, 1569 Columbus rd, N W
 Pietrowski, F. & Son, 2973 E 71st
 Poese, W. F., 2701 W 14th
 Polak, Frank, 569 Bolton av
 *Prouty, Chas. D., 2890 W 23d
 Ramsey, Wm., 13 Kenwood
 *Reaugh, J. A. & Son (Large), Garfield bldg
 Righter, Wm., 1737 E 18th
 Robertson, John M., 2078 E 46th
 Rochford, Henry J., 41 Hazard
 Roskos, Andrew J., 561 Erie
 Rumzie, J. T., 2114 Prospect av, S E
 *Ruppender, Fred'k J., 217 Marvin av
 *Rutherford, Geo. A. Co., 2060 E 4th
 Sammon, Peter, 1542 Addison rd, N E
 Sanford, W. H., Citizens bldg
 Schade, J., 1601 E 85th
 Schady, H. A., 64 Minton
 Schaefer, Chas. F., 3216 Riverside av
 Schneider, Geo., 768 E 105th
 Schroll, Luther M., 796 Lake View av
 Schwind, C. A. & Co., 5203 Lorain av
 *Seither, Fred'k, Bosworth rd
 Seitz, A. W., 2170 Ontario
 Sievers, Jacob, 8721 Lorain av
 Silvers, Julius, 316 Pearl
 *Skeel Bros., 1656 Columbus rd, N W
 Skeel, Geo. F., 3736 E 76th
 Skeel, Joseph, 7601 Marble av, S E
 *Slatmyer, Henry G., 203 Lakeside av, N W
 Sobul, M. & Co., 2418 Woodland av, S E
 Son, Charley, Am. Trust bldg
 *Standard Contracting Co., Wade bldg
 Standfield, Wm. J., 2084 W 14th
 †Stark, Fred'k W., Builders' Exchange
 Stenzel, Adolph R., 150 Hamburg
 †Stevenson, F. D. (Large), The Arcade
 Strong, C. H. & Son, Cuyahoga bldg
 Sydow, F. E., Poplar Nottingham
 Tauch, W. F., Williamson bldg
 Taylor, C. A., 23 Shaw av
 *Terwoord, Henry, 1952 W 54th
 Thompson, D. W., 23 Hazel
 †Thompson, Walter I. & Son, Rose bldg
 Tiffany, Burriee E., 2254 E 105th
 Toll, Fred. A., 9411 Fuller av, S E
 Tuttle, I. D., Blackstone bldg
 Tyler, Theo. V., 4106 Mason av, N E
 Urban, Michael, 6722 Edna, N E
 *Valentine, Wm. H., 9048 Quebec
 Van Auker, Daniel A., 8201 Clark av
 †Vanderwerf Co., 1234 Chestnut, N E
 Venning, Josiah, 2419 E 55th
 Walker, Charles, 2260 W 14th
 *Walker, Henry F., 3542 Cedar av, S E
 Walter, Edw'd, 6922 Berwick rd, S E
 Warren, Jay B., 600 Champlain, N W
 *Weber, Bernhardt, 50 Branch av
 Weber, B. T. Co., 2350 Franklin av
 Webster & Newman, 236 Superior
 Weigart, Louis, 14 Mars av
 Wherry, Levi, 435 Giddings av
 Wilber, E. Bruce, 905 College av, N W
 †Williams, Henry T. Co., Chamber of Commerce
 Wintering, Jno. W., 49 Berlin merce bldg
 Wojahn, Gustav, 1132 E 72d
 †Wood, Wm., Jr., 6808 Lawn av
 †Woodford & Co., 2708 Franklin av, N W
 *Woodley, Richard, 109 Miles av
 Wright, Wm. B., 23 Chestnut
 *Young, Geo. & Son, 2120 E 106th
 *Young, Wm. C. & Co. (Large), Citizens
 Young & Alber, 50 Broadview av bldg
 Younger & Farmer, 817 Giddings av
 COLUMBUS—Beasley, L. F., 664 S Champion av
 †Beckett, E. E., 674 S Ohio av
 Blackburn, T. H., 1355 Carrie av
 Borrer, W. A., 534 Linwood av
 Brandle, A. C., 1283 E Mound
 Bridges, John, 23 E State
 Brown, F. A., 735 N High
 Brust, Wm., 336 Sycamore
 †Bues, Frank E., 107 N Washington av
 Bullock, J. W., 116 E Rich
 Burkett, D. C., 509 Linwood av
 †Casey, Wm. E., 184 E Walnut

Close, Chas. J. (Large), Harrison bldg
 Cochran, J. R. (Brick), Warren, S of Broad
 †Coleman, J. H., 57 W. Park av
 Coulter, J. B., 2198 N 4th
 Cull, Patrick C., 247 N Garfield av
 Culp, Hy. N., 1463 Oak
 Cutshall, J. D., 1658 Bryden rd
 Dale, A. C., 617 E Cherry
 Davis, L. W. Co., 40 W Town
 Ebright, F. A., 1145 E Rich
 Ebright, J. K., 40 W Frambes av
 Edgar, R. A., 50 Latta av
 Erfurt, Fred'k, 1067 City Park av
 †Ewers Bros., Vine & Armstrong
 †Farley, C. M., 290 Rose av
 Flautt, M. J., 92 Hanford
 Fletcher, C. H., 1439 Cole
 Fornof, F. M. & Son, 135 W Rich
 Fuller, W. M., 546 Linwood av
 Gallaher, James F., 111 Cypress av
 Garrison, C., 1480 Michigan av
 Geren, D. D., 1333 Dennison av
 Getreu, Geo. J., 216 Reinhard av
 Gingham, C. M., 526 Kelton av
 †Good, Jacob, 562 E Main
 Hall, E. M., 455 S Champion av
 †Harding, David P., 255 N 19th
 †Hina, J. H., 710 Oakwood av
 Houser, T. G., 887 Ellsworth av
 Isabel, S. J., 137 W. 10th av
 Johnson, B. F., 1471 Oak
 Jones, Humphrey (Stone), 172 N. 17th
 Jones, T. T., 231 Miller
 †Kieffer, Geo., 1635 E Main
 Kientz, Jno., 788 S 5th
 †Knox, William E., 22 Midland av
 Lang, E. & C. (Stone), 551 S 5th
 Lawson, Robt. (Stone), 24 B 4th av
 Leibrand & Son, 1394 S High
 Lewis, David (Stone), 213 N 18th
 †Magrew, A. M., 1310 Franklin av
 †Mitchell, J. W., 935 Wilson av
 †Morris, H. E., 882 Ellsworth av
 Mueller, H. W., 662 S Briggs
 †Nichol, F. H., 1153 Neil av
 Ohrstedt, F. & Son, McKinley & Rodgers ave
 †Powell, J. B., 176 N 20th
 Prentice, E. A., 429 Abbott
 †Richter, Henry, 711 S Front
 Riedmiller, Robert, 238 E Schiller
 Riedmiller, Theodore, 146 E Schiller
 Rubrecht, C. A., 1229 Franklin av
 *Sandrock, John & Son, 212 E Rich
 Schlitt, Jos., 262 Miller av
 Schneider, Jno., 114 E Beck
 Schneider, J. O., 8th & Cleveland av
 Selig, J. H., 762 Delaware av
 Seliger, J. N., 685 S 3d
 †Shanahan, Patk., 857 Penna av
 Snider, Jas. E., 603 B Mound
 Sibley, C. A., 1562 Oak av
 †Smith, Walker, 12 S Levee
 †Spencer, A. E., 244 W 9th av
 Stock, L. A., 1115 Parsons av
 Stutson, J. W., 642 E Main
 †Swartz, W. H., 169 S 3d
 Wiggins, T.S. & Son, 34 Spruce
 †Wright, R. Clark, 80 N High
 Young, Leonard, 118 W 10th av
 CONNEAUT—Lake Erie Bldg. & Lumber Co.
 COSHOCTON—Burrell, T. H.
 Kissner, J.
 Norman, Thos. J.
 CUYAHOGA FALLS—†Bates, A. R. & Co.
 Falls Lumber Co. (Large)
 DAYTON—Albin, Grant, 122 Champa av
 Allen, W. L., 230 Norwood av
 Backus, T. J. Const. Co., Reibold bldg
 Beckner, D. W., 14 Johnson
 Beecher, M., Creighton av & Clarence
 Bonholzer, N. H., 211 McClure
 Clark, E. M., 1513 E 5th
 Clark, J. W., 127 Harker
 *Claude, Emil (Brick), 309 W Howell av
 Conner, J. L., 314 Grand av
 Cory, T. S., 431 Harker
 Depweg, Wm. A., 109 Sherman
 Dickman, Chas. F., 529 E Hickory
 †Ditzel, Henry F., Bickham nr Linden av
 †Ditzel, John F., 313 E Johnson
 Drayer, Edgar J., 336 E Oak
 Duibley, Chas., 308 W Homestead av
 Ewing, Geo. R., 128 Mathison
 Feight, A. G., 2108 W 1st
 *Feldman, Chas. B. (Brick & Stone), 225 N
 Fetzer, Wm. P., 223 S Goodhue Alaska
 Fields, R. A., 33 S Irwin
 Foell, Christ, 1629 Richard
 Foreman, Chas. E., 2130 W 3d
 Forrer, C. L., 207 Alaska
 *Fravel, Luther R. S., 803 S B'way
 *Fulwiler, Frank, 117 S McDonough
 *Gabler, J. Edward (Stone & Large), 960
 E Richard

Galloway, Frank C., 263 Samuel
 †Garst, Hamlin, 246 S Hopeland
 Gelbaugh, Geo. A., 1229 Wayne av
 Gerslacher, Fred., 174 Grove
 Glaser, Joseph, 606 E Xenia av
 Gohn, J. C., 207 Lexington
 Gregg, Vesso A., 63 N Baltimore
 Hager, Henry M., 120 S Campbell
 Hall-Kepple Co., Davis
 Harshbarger, H. A., 725 Haynes
 Hartzell, P. C., 103 Greencastle
 Hause, S. E. & Son, 102 S Garfield
 †Hawker, David, 454 S Quitman
 *Heinkel, Geo., 1615 E Richard
 Hendrickson, D. A., 237 Valley
 Herrman, Paul, 720 Washington
 Highlen, J. W., 38 N Jefferson
 †Highlen & Hahn, 32 N Jefferson
 Hodapp, Gustav A., 833 E Xenia av
 *Holzen, Alfred C., 1117 E Xenia av
 *Holzen, Edw. H. (Brick), 1111 E Xenia av
 Hoover, Wm. N., 417 Harker
 *Hoskett, Chas. F. (Brick), 662 E Richard
 Houser, Wm. S., 251 Boyer
 Johnson, O. M., Hart & Baltimore
 *Jones, Harry R. (Brick), 609 E Huffman av
 Keener, Chas. A., 2443 W 3d
 *Kempert, A. F. (Brick), 245 S Morton av
 *Kern, Jos. D. (Stone), 665 S Williams
 Koontz, A. C., 47 S Jersey
 Kramer, Chas. F., 1703 McLain
 †Kramer, Fred J. & Son, 220 W Hartford
 Kuntz, A. & Sons, 55 S Costello
 *Laughlin, Dora (Brick), 623 S Williams
 †Laughlin, Jas., Huffman av & Gilbert
 Law, L. L., 511 Valley
 Leonard, Jno. H., 720 S Summit
 Lesperance, L. B., 244 Puterbaugh av
 Line, Ed. J., Clifton rd
 Loker, F. C., Edgwood nr B'way
 *Longstreth, Wm. E. (Brick), 615 N Lin-wood
 Lowman, S., 2419 W 3d
 *Lyman, Geo. D. (Stone), n s Dakota w of
 McCoy, D. B., 36 Hedges Corp. line
 Macy, W. C., 1219 Wyoming
 Madden, Dennis J., 29 S Perrine
 Matt, Geo., 911 Xenia av
 May, C. W., 20 E Locust
 †Meredith, Wm. E., 645 W Negley pl
 Meyer, Jno. A., 221 Franklin
 Mitchell, Jas. J., 4 Ohio blk
 *Morris, Frank E. (Brick), 48 E Obell court
 Myers, A. G., U. B. bldg
 †Myers, M. D., 18 Marshall
 Nees, Wm., Chambers
 *Nicholas, Abraham L., 242 S Conover
 Noel Const. Co., U. B. bldg
 O'Herron, M. & Co., 302 Arcade
 O'Meara & Shank, 77 W Weller
 †Oneth, J. A., 15 S Henry
 Paul & Kershner, Locust & Stillwater av
 *Poock, Christian (Stone & Large), 33 E
 †Prinz, John H. (Large), 142 E Jones Hess
 Prinz, Louis W., 415 Jackson
 Robinson Bros., 121 S Jefferson
 †Rouzer, John Co. (Large), Wyandot
 Shoup, J. O. & Co., U. B. bldg
 †Shue, Samuel W., 559 S B'way
 Simmerman, Jacob, 421 W Homestead av
 Sloop, J. H. & Son, 39 W Hermau av
 Smith, D. L., 19 S St Clair
 Somers, B. G., 343 S Main
 Spohn, Victor, 337 Wyoming
 *Stainbrook, Chas. A. (Brick), 140 S High
 *Steuer, Mathias (Stone), 521 N Taylor
 †Stokes, Chas. T., 622 W Washington
 *Stork, F. W. (Brick & Stone), 2002 W 3d
 *Stork, Henry (Stone), 201 S Bonner
 Suman, Ruben F., 127 S Campbell
 *Sutter, Leopold (Stone), 779 S Brown
 †Talbot, H. E. & Co., Reibold bldg
 Tejan, Frank, 14 Edgar
 *Tinnerman, Harry L. (Brick), 139 S Henry
 Turvene, Hy. & Son, Summit & Gold
 *Unverferth, Henry G. (Brick), 209 E Clover
 *Unverferth, J. David (Brick), 261 E Bain-bridge
 *Waltz, Charles, 25 s s E Union av
 Weaver, Fred T. G. & Son, 612 E May
 *Webbert, Wm. (Brick), 1203 W 4th
 †Wehner, Jos., 121 W Ziegler
 Wise, M. F., 1181 W Grand av
 Wolf, John H., 828 N Main
 Wysong, Jos., 16 Best
 Zadeck, B. M. Co., Hartford & Big Four
 †Zizert, Jos., 1519 N Main
DEFIANCE—Baker, P. A. & Bro.
 Baltes, Jacob (Brick & Stone)
 Behren, B. (Brick & Stone)
 Blanke, A. (Brick & Stone)
 †Decheaux Construction Co.
 Damann, John S. (Brick & Stone)

Fisher, J. O.
 McClary, A. G.
 McClary, W. S.
 Tuttle, Charles E.
DELAWARE—Cullen, L. H.
 Dankle, David
 Dent, J. H.
 Gantz, J. F. & Co.
 Hess, H. D.
 †McDonald, James
 Riddle, Chas. W.
DENNISON—O'Donnell, E. R.
 †Robinson, W. H.
EAST LIVERPOOL—Aughinbaugh, H. C.
 Cain, Jno. C.
 Hill & Wallace
 †McHenry, Harvey
 Nease, C. & Co.
 Phillips, Geo. J.
 Robinett, J. H.
EAST PALESTINE—†Hofmeister, J. C.
ELYRIA—Bates, A. & T. J.
 †Dickinson, L. A.
 Duffy, Wm.
 Myers, Philip
 Pfundt & Schultz (Brick & Stone)
 †Swope, I. F.
 †Wolf, Fred. Co.
FINDLEY—†Duttweiler, F. W.
 †Folk Bros.
 †Horne, Geo. J.
FOSTORIA—Barkley, E. L.
 †Buessey, Peter
 †Kiser, O.
 Spencer, R. B.
FRANKLIN—†Roof, Wm. S.
FREMONT—†Engler & Kiser
 †Steinle Bros. (Large)
 Wolfe, C. M.
GALLON—Bilsing, Henry
 Byrd, F. L.
 Crissinger, E.
 Cronenwett, Wm. (Brick)
 Ely, J. D. (Brick)
 Foltz, H. D.
 Herr, John
 †Jacoby, Jacob
 King, John
 Maples & Skilbon
 †Taylor, A. Co.
GALLIPOLIS—Betz, G. R., Jr.
 Danner, J. E.
 Mullineaux Bros.
 Wigner, Jno. H.
GIRARD—Gialdini, G. A. & Co.
GREENFIELD—Hallam, Jas.
GREENVILLE—Beanblossom, Thos. A.
 Buchanan, P. T.
 Clark, S. J.
 Flurkey, Wm.
 †Fry, Wm.
 Irwin Bros.
 Irwin & Koster
 †Neiswonger, A.
HAMILTON—Arent Bros.
 †Bender, J. F. & Bros. Co. (Large), Dayton
 †Beyer, Wm. J. & Co., 118 Walnut
 Davis, Frank J.
 Garver Bros.
 *Hamilton Contracting Co., ft of Stephan
 Hoell, Wm. F.
 Kinch, Frank
 †Lingler, Geo., 322 Hanover
 †Ross, John L. (Large), 218 Sycamore
 White & White
HILLSBORO—Hern & Lepley
IRONTON—Akers, Thos. C.
 Black, S. G.
 Cook, H.
 Cook Bros.
 Dyer, E. B.
 Francisco, J. H.
 †Hall, Thomas R. (Large)
 †Henry, Levi M.
 Mulligan, M. A.
 Schweickart, Wm. L.
 Tri-State Improvement Co.
 Wileman & Hebling
JACKSON—Bierley, Sherman
 Brown, H. M.
 Eisnagle Bros.
 Hankie, Jno.
 Long, Lewis
KENTON—†Burkart, Jno.
 †Lambert, S. E.
 McArthur, D. R. & Co.
LANCASTER—Brooks, Albert H.
 Crook, J. Carl
 Geiser, Jacob
 Gray, Jos. H.
 Justus, C. F.
 Kober, Wm. H.
 Manger, M. F.
 Older, Geo. W.

LEBANON—Hopping, W. H.
 Monroc & Johnston
LIMA—Chapin, D. D., 512 E Market
 †Crum, H. G., 135 W Spring
 †Crum, C. E., 142 W Eureka
 Custer, Jacob
 †Dingeldine, Philip, 617 S Penn
 †Duden, W. H., 612 S West
 †Evans, Timothy, 214 S Pine
 Hell, Valentine, c Eureka & Jackson
 Kemper, E., 423 N West
 †Kemper, L. M., 811 Elizabeth
 †Kepner, B. H., 253 S Pine
 †Kepner, L., 212 W Kibby
 †Kepner, T. W., 850 E. High
 †Kerr, Geo. S., 769 W Wayne
 †Kiplinger, D. E., 613 Worth
 †Markel Co.
 †McKibben, W. M., 906 Bellefontaine
 McKinney, Jas. M., 724 W North
 †Neubrecht, J. S., 408 S Pine
 Ruhlen & Miller, 122 E Wayne
 †Smith, S. A., 661 W Spring
 Smith & Sherrick, W., 161 E Eureka
LISBON—Forse, Geo.
 Itzel & McLane Co.
LOCKLAND—Cavett, L. B.
 †Wilson, W. A.
LOGAN—Stephens, Chas.
 Strentz, J. W.
LONDON—Carter & Foster
 †Core & Culp
LORAIN—Bonsor Bros.
 †Demmer, A. A.
 Kipp, John
 †Myers, J. A. C.
 Pierce, F. W.
 Weitzel, Louis
MADISONVILLE—Cornelle & Linder
 Grosse, C. Chas.
 *Mathis, Daniel (Brick)
MANSFIELD—†Berry, Chas. V. (Large)
 †Bloor, T. W.
 †Davis, F. C.
 *Gandert, Fred'k
 *Gandert, Jno.
 *Hancock, Albert E.
 †Hershey Bros.
 †Hursh, Jos. (Large)
 †Jones, W. M.
 †Mowry, Samuel (Large)
 Rowland, C. M.
 †Small, Simon & Son (Large)
 *Shell & Baker
 †Schnitzer, F. F. & Son (Large)
 †Wolff, Jacob (Large)
MARIETTA—Connor & Battersby
 Dickson, Beardsley & Foreman
 Dowling, C. W.
 McCugh, J. F.
MARION—†Apt, Jacob (Large)
 Baldwin, E. L.
 Beringer, Jno. E.
 Carroll, Thos. J.
 De Lander, L. H.
 Drake & Son
 Dwyer & Mann
 Hummer Const. Co.
 Kelly, P. & Co.
 Leffler & Bland (Large)
 Molloy, D. F.
 Morris & Shenner
 Murphy, Jos.
 Orr, Geo. B.
 Pickeral, Jno.
 Scott, J. W.
MARYSVILLE—Fleck, E.
 Kennedy & Weldman
 Sharer, D. & Son
 Tracy, T. O.
 Wood, Hylas
MASSILLON—Converse, Emil
 *Diefenbacher, Philip & Son
 *Meinhart & Son
 *Vogt, W. H.
 *Wendling, A. F.
MIDDLEPORT—Beeson Bros.
 Talbott & Lindsay
 Wise & Beach
MIDDLETOWN—†Caldwell & Iseminger (Large)
 *Conklin, Wm.
 Deuny, Chas.
 Dome, Geo.
 *Fresh, E. L. & Bro.
 Gingerich & Lanier
 †Gingerich David
 *Smith, Wm.
MOUNT VERNON—†Bounds, W. A.
 Cochran, W. H.
 †Fowler Bros.
 Mitchell, Charles
 Ranson, Oscar
 *Stoylc, F. A.

NELSONVILLE—Hill, Jno.
Landis, B. F.
Vorhes, Chas.
Vorhes, W. H. (Brick & Stone)

NEWARK—Chilcote & Jones
Cramer, Melville
Danke, Wm. C.
Dudley, J. S.
Fristoe, S. B. & Son
Hawkins, O. J.
Hawkins & Son
†Jones, B. B.
Palmer Bros.
Phillips, P. S.
Richardson & De Voll
Richardson & Kramer
†Shauck, Edgar A. (Large)
Sopher, J. T.
Taylor, D. J.
Wagenheim, M. J.
Whitehead, E. F.

NEW COMERSTOWN—Brodie, W. J.

NEW PHILADELPHIA—Dick Bros.
*Kaserman, G. A.
Rapp, Geo. D.
*Schwab, Adam

NILES—†Edwards Bros.
Mango, V. & Co.
†Niles Lumber Co.
†Thomas, W. F.
†Wagstaff, E.

NORWALK—†Carpenter, W. G.
Cazeau, C. C.
Chaffee, J. M.
†Crosby, Jonas M.

NORWOOD—Baker, J. M.
Eyre, Louis
Greife, E. R.
†James, O. A.
Kleine, F. G.
O'Brien, J. T.
Rottman, Herman
Stagge, Henry

PIQUA—Anderson, Jno. H.
Becker, H. L.
Elicker & Hershey
McKeon, E. S.
Richardson, O. W.

POMEROY—Bauer, George (Brick & Stone)
Kautze, Abe J.

PORT CLINTON—†Bertsch, Edward

PORTSMOUTH—Baird, Samuel P.
Bradley, Wm.
Dawson, Richard L.
Donaldson, W. W.
Goodrich, B. F.
Gustin, D. W.
Hassman, Henry
Kaps Bros.
Long, Chas. K.
Mann, Thos. O.
Mead, Isaac F.
Narc-Ryan-Curtis Const. Co.
Pratt, Wm.
Wanless & Banzo

RAVENNA—†Frank, P. L.
†Loomis Bros.
†Murphy, G. W. & Co.
Shaw, J. J.

ST. BERNARD—*Espel, Jas. F. (Stone)

SALEM—*Buell, Samuel
Jessup, Jas. H.

SALINEVILLE—Twiss, Wm. H.

SANDUSKY—Biehl, C. N., 106 Plum
Biehl, H. J., 909 Hancock
†Biehl, H. J., 909 Hancock
Bier, John G., 1006 Hancock
†Callan, M. J., 915 Wayne
†Doerzbach, Geo. W.
†Feick, Geo. & Co., Central av
Fettel, August G., 730 Central av
*Hartman & Hendrickson
Kollman, P. H.
O'Donnell, A. G.
*Pye, Jacob, 117 Cambell
Smith, John H., 718 Sycamore Line
Webber, John P., 802 Central av
Weichel & Hegemer, 226 Lindsey
Weidmann & Hegemer, 226 Lindsley
Zorbach, L., 311 Stone

SIDNEY—†Altenbach, Jos. & Son
Loudenbach, S. L.
Orr & McCune

SPRINGFIELD—Athy, Raymond W., Limestone & Leffel la
†Bartholomew, O. N., Cliff c Cedar
Berry, E. W., 53 Fisher
Bolan, Joseph (Stone) 72 Kenton
Boss, Jos. A.
Brannan, Thos. (Stone), 177 S Spring
Clark, Jas. H.
†Clark, S. G., & Sons, 78 W Main
Cord, John
Crist, W. L., Jr.

Dalle, J. H., North c Spring
Fish, Allan A.
Frock, W. H., 242 Dibert av
Gladfelter, Ryburn R., 296 W North
Hern, W. J., 674 S Limestone
Hinkle, Jacob A.
Hollenback, Boyd U., 74 Scott
Houlton, S. B.
Keith, Chas. N.
Morningstar, W. F.
Mumma, C. E.
Numberger, Wm. F., 418 Lagonda av
Parke, Jno. N., 17 N Mechanic
Poole, Wm., 77 W Pleasant
Ports, J. S.
Poss, Anthony, Limestone & May
Reese, Chas. O.
Russell Bros., 351 N Limestone
Seiver, Wm. R., 99 S Western av

STEUBENVILLE—†Burke, Thos.
*Flote Bros. (Stone), 556 N 7th
McDonald, A. W.
†McFeeley Bros.
Myers & Stewart
†Nicholson, Ed.
Puwiance, Thos. H.
†Still, Jno. R.
†Yocum, C. M.

TIFFIN—Boehler, W. H.
Chamberlain, S. O.
Fink, J. F.
*King, Jno. E.
*Morcher, Frank (Stone)
†Renninger, W. H.
Rodgers, L. W.
†Sheely, B. A.
*Stant, J. P.

TOLEDO—†Ackland & Kimball, The Spitzer
†Arnsman, J. H., 423 W Central av
†Baer, J. H., Calvin bldg
†Bender, Henry, 661 Hamilton
†Bentley, A. & Sons, Spitzer Arcade
†Cavanaugh, John & Son, 1405 S 22d
†Gettins, Vessey M., 821 Dorr
*Hartman, Jacob (Brick), 2117 Vermont av
*Hartman, Chas. A. (Brick), 1515 Adams
†Hattersley Construction Co., Gardner bldg
†Heidtmann, Wm., 1949 Chase
†Hight, Wm. G., 3167 Detroit
†Holtz, Jos., 944 Western
†Jackson, Joseph & Son, 919 E B'way
Jacobs, Jacob (Brick), 2456 Robinwood av
*Jeffrey & Son, 836 Hicks
†Johns, Jno., 915 Monroe
†Johnson Bros., 1579 atawba av
†Kenson, A. H., 664 Norwood av
Kesting, Jos. (Brick), 209 E B'way
Kiebler, Geo. J., 640 Hicks
†Kinker, Gerhard, 325 Field av
†Kloppinger, G. F. C., 130 Ottawa
Lee, D. W., 2424 Auburn av
†Lighthiser, George, 3182 Glenwood av
Lombsborough, Wm., 1440 South
*McCoy, G. W., 721 Prouty av
†McKinney, Thos. & Son, The Nasby
†McMahon, Wm. & Sons, 321 Floyd
†May, Martin D., 1529 Missouri
†Meinka, Carl A., 2474 Putnam
†Mellish, J. B., 119 Winthrop
Mussion, E. A., 1033 Ontario
†Nichols, Geo. W., 710 Stickney av
†Nobles, Anson, 2033 Chase
*Pickett, S. J. (Brick), 6 Builders' Ex
Prentice, W. H., 360 W Central av
Rabbitt, M. & Sons Co., The Nasby
†Robinson, Fred'k, 736 Hicks
*Robinson, O. C. Co. (Brick), 3 Builders' Ex
†Rosenstretter, Rudolph B., 2448 Putnam
†Rothbart, Malder, 912 Nebraska av
†Ruswinckel & Co. (Brick), 554 Segur av
*Sawade, Henry A. (Brick), 820 E Bancroft
Schaal, M. J., 2475 Vermont av
†Stahl, F. R., 5 Builders' Ex
*Stevens, B. L., 1339 W Woodruff av
†Taylor, W. B., The Spitzer
†Terwilliger, Chas. H., 810 Monroe
Trippensee, Gustav, 2806 Stickney av
†Valentine, John & Son, 2057 Franklin av
†Voss, E., 2227 Summit av
*Wening, G. J. (Brick), 929 Michigan
†Whitney & Gayhart, 209 Huron

TROY—McKee, W. R.
†Pearson, Willis A.

URBANA—Creager, C. E.
Dickerson, Louis
McCray, A. C.

UHRICHSVILLE—Gillmore, C. L.
Hammond, G. F.
Lickey, J. H.
†Parks, N. H.

WARREN—Bullus, Benj.
Craig, S. Son & Co.

Sealey, J. R.
Smith & Hafer
Watson & Sutherland (rick & Stone)
Wilkins, R. S.

WAUSEON—†Palmer, M. T. & J. O.

WELLSTON—Cook, Fred. W.
Davidson & Goddard
Drake & Davidson Co.
†Ohio Building Co.

WELLSVILLE—Aughinbaugh, H. C.
Forbes, Jas. A.
Grant, J.
†Murdock, G. F.

WILMINGTON—Doyle, Jno.
Shepard & Sons
Thompson, Jno. H.
Wakefield, J. J.

WOOSTER—†Ames, Samuel
†Dencke & Feyhtner
Kuehn, William
†McClure & Smith
Miller, James F.
Myers & Long
†Snyder, M. L.
†Stence & Myers

XENIA—†Dice Bros.
Farrell, Jno.
Griesbaum, Jos.
†McCurren & Son
McGarry, Jno. C.
Patterson, S. N.
Rader, E. C. (Brick)
†Thornhill Bros.

YOUNGSTOWN—†Bean, N. J., 45 N Pearl
†Burrows, Geo., 11 N Front
†Fiehler, August D., 68 E Myrtle av
Fleming, Martin
†Freer, A. J., 141 E Federal
†Frolund, M. W., 2 Woodland av
*Green Bros. (Stone)
†Heller Bros. Co., W. End Raven av
Hess, D. F.
Joyce, M. J.
†Laughlin & Mahoney, Maloney blk
†Leeworthy & Sutton, 16 Marion av
Lett, D. L.
*Lightbody, Thomas M. (Large)
†Mahoning Lumber Co.
*Mausser, Christ., 25 N Walnut
Merrian, W. F.
Miley, A. S.
Morris, David
*Niedemeier & Restle
†Oliver Construction Co., 66 Chalmers av
Palmer, W. H. Co.
†People's Lumber Co.
†Shof & Hawley, 328 Edwards
†Sinclair, R. H., 1356 Shehy
†Sprague, P. E., 566 High
Thomas, J. O., 731 Thomas
*Tibbits, B. C. Lumber Co.
Young, Arthur G.

ZANESVILLE—*Adams Bros. (Large), 3rd St. Bridge
Armstrong, R. L.
Clifton Bros.
Dunzweiler Bros.
†Evans, R. H. & Co., 622 Main
Fogarty & Curtis, 1020 Linden
†Frazier, Wm. S., 247 Ridge
Fritz Bros.
†Handshy, W. C., 248 Ridge
Hoffman, S. W.
Humphrey, J. C.
†Israel, F. L., 451 Moxahala
†Linn, J. W., 32 Hall
†Mast, Emanuel E., Green av
Nesbit, J. H.
Townsend, F. M.
Townsend, T. B. Co.
†Vinsel Co., Brighton boul

OKLAHOMA TERRITORY.

BLACKWELL—†Chambers & Million

EL RENO—†Buse, F. A.
Godfrey & Postlewaite
†Hennessey & Kane
Riley, W. H.
Roberts & Spieman
Skinner, E. J.

GUTHRIE—†Brickner, J. T.
†Kennedy & Cottou

KINGFISHER—Morley, George
†Wells & Ash

MANGUM—†Stubbs, C. A.

NEWKIRK—†Tubs, M. M.
†Wilson, H. T.

NORMAN—McCoy & Bethune
Manire, M. E.

OKLAHOMA—Anderson, T. R. Const. Co.
Bain, C. (Bricklayer), 219 Noble
Duemcke, Albert
†Krueger, Robert
†Lee, L. F.
†Lillard, B. C.
*McClain, J., 219 Washington av

†O'Keefe, T.
 *Parkes, G. M. (Bricklayer), 427 Pottawotl-
 †Rawles & Bailey nic av
 †St. Clair, W. M.
 †Stone, L. C.
 PAWNEE—†Veatch, Capt. H.
 POND CREEK—Ross, D. B.
 Vetter, Wm.
 SHAWNEE—†Dexter, E. S.
 STILLWATER—Swindler, S. J.

OREGON.

ALBANY—Hadley, I. F.
 ASHLAND—Hackonson, Jno.
 Jordon, F.
 ASTORIA—Beland, S. J.
 †Ferguson & Houston (Large)
 †Hartwig, Ludwig
 †Miller, William
 Northwestern Const. Co.
 Palmberg, C. G.
 BAKER CITY—Fleming, M. D.
 Grant, Thos. E.
 Heffelfinger, S.
 White, J. C.
 EUGENE—Brown & Smith
 Heckert, W. O.
 Lombard, A.
 GRANTS PASS—Costain, Chas.
 Holman, James
 KLAMATH FALLS—McMillan, W. T.
 LA GRANDE—*Hayworth, Samuel
 Krieger, George, Jr.
 Slater, J. L.
 OREGON CITY—Baker, F. S.
 White Bros.
 PORTLAND—Alden, E. K., Labbe bldg
 Anderson & Crowe, 245 Ash
 Armstrong, M., 4th & Columbia
 Anthors, A. J. & Co., 209 Columbia
 Backstrand & Norback, 790 Kerby
 Backstrand, J. A., 790 Kerby
 Banmgarte, W. F., Centre Add.
 Bays & Son, 682 Borthwick
 Beat, Robert B., 453 Washington
 Bentley, A. K., Chamber of Commerce
 *Bingham, Jno. (Brick & Stone), 5th & Alder
 Brandes, F. H., 292 1st
 Buckner, W. L., 330 Stark
 Carlyle, John, 21st & Northup
 Carmichael, C., 89 5th
 Fishbeck, W.
 Giebisch & Joplin, Labbe bldg
 †Gordon, G. W., 208 4th
 Hepp, Jacob B., 575 Vaughn
 Hughes Bros., 11 N Union av
 Killgreen, J. G., Chamber of Com. bldg
 Little, A. L.
 Melton, J. A., 204 4th
 Palmer, J. H., 230 Russell
 Pence Co., 28th & Thurman
 †Preston, P. A., 334 Stark
 Reisner, M. J., 423 E Clay
 Rhodes & Beards, 272 Ash
 Standard Const. Co., Sherlock bldg
 Staples & Moore, Lumber Exchange
 †Stewart & Winslow, 330 Couch
 Stober, August (Brick), Carson Heights
 Stokes, Wm. R. & Co., 109 Grand
 Velguth & Pierce, 375 Holladay av
 Washburne & Floyd
 SALEM—Eley, H. N.
 Erb & Van Patten
 Finlay, A. R.
 Hewitt, J. C.
 Jory, Oliver
 Kennen, O. C.
 Lardon, L. P.
 Nelson, Jno.
 Snook, Herman
 Welch & Monrer
 THE DALLES—†Glenn, Hugh
 Johnson, Charles

PENNSYLVANIA.

ALLEGHENY—Alberts, Wm. E. Co., 6019 Kirk-
 wood
 Alston, A. & Son (Stone), Grant & Penna
 Beatty, W. D., 900 W Diamond avs
 *Blendinger, Fred A. (Brick), 824 O'Hara
 Breitwelsner, Chas. J., 3419 Fleming av
 †Campbell, D. J. & Co., 1302 Sandusky
 Campbell, J. G., 1208 Sandusky
 †Cochrane, Geo. A. & Co. (Large), 1210
 Washington av
 Colonial Column Co., 1625 Beaver av
 Donovan, Wm. & Co. (Brick), 1944 Lithgow
 av
 Durler, Frank, 150 Fremont
 †Eberz & Son, 713 1st
 Fritz, Geo (Brick), 213 East

†Gwinner, Fredk., 1801 Market
 *Hall, Morgan B. (Brick), 12 N Diamond
 †Hays Bros. & Dodds (Large, also Planing
 †Heck, Jno. & Co., 2325 East
 †Heisch, Jno., 1254 Franklin
 Heister, Thos. (Brick), 1419 Sandnsky
 †Helms, Courad H., 1787 Perrysville av
 Highton, R. A. (Brick), 1 Home
 Jourdan, Jno. P., 2630 Norwood av
 †Keown & Tootill, 215 Park Way
 Kinser, James H. (Brick), Charles nr Per-
 rysville

Landgraff, Henry (Brick), 1311 Franklin
 Lovatt, C. B. & Bro. (Brick), 16 N Diamond
 Lude & Geissler, 852 Green
 McCandless, Chas. W., 1204 Linden
 Mack, Joseph A., 1209 Stewart
 †Mackintosh, Geo. P. & Co., Ltd., 807
 Martolf Bros., House bldg Peuna av
 Marx, Anton, 1232 Superior av
 Meals, S. A., 2910 Shady av
 Moorhead & Co., 283 McClure
 Morrison Bros. Co. (Stone), South av ft Al-
 legheny av

Mullins, Frank J., 1115 Sherman av
 Nicklas, Jno. H., 35 Kenwood av
 Nicklas, Westley J., 27 Kenwood av
 Oliphant & Martin (Brick), 20 E Lacock
 †Patterson & Shaw, Ferguson blk
 †Reif, Chas., Jr., 133 Perry
 Richey, Thos., 1212 Boyle
 Robinson, Jas. L., 409 Euclid av
 †Sefton, Ross K., 510 E Diamond
 Sinnott, P & Sons, 2801 Perrysville av
 Smith, Chas. B. (Brick), Western av
 †Stewart, W. G., 1617 Falck
 Swan, Jno. Jr., 1105 Allegheny av
 †Tannehill, R. C. Son (Large), 1315 Federal
 †Thompson, L. A., & Co., 102 Erle
 †Trimble, John H. & Bro. (Large), 914 Sher-
 man

Trimble, W. F. & Sons Co., 1719 Greenwood
 Turner, Thos. E., 115 Sherman av
 †Wherry, Jas. & Co. (Large), 857 W North
 *Whyte, Jas. L. (Large), 1519 Monterey
 Wilson, A. & S. Co. (Brick), 541 3d av
 Wilson & Quinn, 208 West Parkway
 ALLENTOWN—Albright, Victor J., 1337 Gordon
 †Crilly, Hngh E. (Large), Bellevue Hotel
 Danner, Jno. A., 808 N 6th
 Donecker, O. C., 548 N 4th
 †Gangemere, W. H. (Large), Young bldg
 Gerry & Peters
 Haas & Walbert
 *Huber & Son (Brick), 514 N 7th
 Koch, Landenslager & Fry (Brick), 341 N
 8th

†Lawfer, J. Harry (Large), 27 N 8th
 *Lehr, Edwd. H., 619 N 7th
 *Lehr, Israel L., 617 N 7th
 †Long, J. E. & Son
 †Melxcell, M. J., 511 Court
 †Moyer, Wm. P., 528 N 6th
 *Moyer & Keck (Brick), 829 Chew
 *Nagle, Jas. & Son (Brick) (Large)
 *Ochs, Fry & Co. (Brick), 526 Washington
 †Ochs, Milton T. J. (Large), 450 Wire
 *Reinsmith & Kramer (Brick), 336 N 2d
 Quier, O. D. Co.
 †Ritter & Smth (Large)
 †Roth & Berryman, 1232 Chew
 †Schelden, Harry G. & Co., 611 Hamilton
 †Schout, Charles A., 326 N 9th
 Seiwel & Koehler
 Skinner, J. L. & Son
 †Snyder, Jacob, 439 Tilghman
 *Wieder, Levi A. (Brick), 1150 Turner
 Yingling, H. B. & Son (Operative), 822
 †Yost, Harrison W., 818 N 7th Hamilton

ALTOONA—*†Altoona Construction Co. (Large)
 Bartley, C. B. & Sons (Large)
 †Bucher, Adam (Large)
 †Chapman, Wm. H.
 †Counsman, D. & Son (Large)
 †Elder & Cassidy (Large)
 *†Finn, Peter W. (Large)
 †Fleck, J. S. (Large)
 †Fluke, J. B.
 †Herr, W. H. (Large)
 *†Hughes, W. V. & Son (Large)
 †Ivory, J. C.
 †McAllister, Daniel W.
 †Orner, Martin V.
 †Orr, J. C. & Son (Large)
 †Plummer, Jno. W. (Large)
 Ritchey & Iseuberg
 ARDMORE—Harlan, J. Marshall
 Henzy, Peter
 McConaghy Bros.
 ASHLAND—†Dreshman Bros.
 *Leibig, Charles P.
 †Madgeburg, Wm. (Large)

†Maurer, Jacob J.
 Young, Chas. H.
 ATHENS—Foley, M. P.
 AVOCA—Dommermuth, Michael
 BANGOR—†Graffin, W. T.
 †Stiles, John
 BEAVER—Anderson & Cook
 Harton, Harry M.
 Tallon, Farr & Co.
 BEAVER FALLS—Creese, Samuel & Son, 1505
 6th av
 Haller, Juo.
 Hnghes, E. O.
 Hunter, G. S.
 Jackson, W. J.
 †Keefer, J. W.
 †Kirker, L. C. & Son, c 4th av & 9th
 †Loeffler, C. & Son
 *Lutz, J. W.
 †Shanon, W. A.
 Surls, B. E. (Brick), 1222 8th av
 *Zanini, Joseph, 1502 5th av
 BEDFORD—†Claar, Samnel S.
 BENNETT—Fox, Wm. (Brick)
 †Murphy Bros.
 Young, W. J. (Brick)
 BERWICK—Dodson, B. H.
 Everhart, A. C.
 Kring, Wm.
 Sittler, J. W.
 BETHLEHEM—Snyder, Harvey D.
 Williamson, Henry O.
 BIRDSEBORO—†Focht, L. H.
 †Mauger, A. E.
 †Moore, R. & Son
 BLAIRSVILLE—Altman, J. F.
 †Fair, D. M. & Son (Large)
 Hossack, J. M.
 †Lapstey Bros.
 Snyder, John A.
 BLOOMSBURG—Casey, Michael
 *Ferguson, W. B.
 Reimard, C. H.
 BLOSSBURG—Biddle, Isaac
 Fnlkerson, Enoch
 Lenhart, Caspar
 Morrell, Joseph
 BRADDOCK—*Bartley, Wm. W. (Brick)
 Braddock Union Planing Mill Co.
 Campbell, R. M.
 Copeland Cont. & Snpply Co.
 Hassett & Renick
 Jacobson, Nels T. (Stone)
 James, D. J.
 Lewis, A. L.
 Phillips & George
 Porter Const. Co.
 Reese, D. W.
 Tomlinson & Whitehouse
 BRADFORD—Bradford Const. Co.
 †Dick, John
 Hall, F. D.
 Hane, F. O.
 †Hanley, William
 †Hayes, James W.
 Langworth, L. O.
 Osgood, H. H.
 †Unrrh, E. N. (Large)
 †Wiuter, Samuel D.
 BRIDGEPORT—†Kerns, R.
 BRISTOL—Crichton, Wm.
 †Lawrence, Ernest
 Peirce, Edw. M.
 Wollard, Chas. S.
 BROOKVILLE—Baumgardner, D. H.
 Braden, James
 Hall & Lucas
 Hastings, C. B.
 Sadler, Martin
 BUTLER—Cochran & Stoner
 †Emrick, D. B.
 Fouzer, R. B.
 Hoffner, Adam
 Milheim, John G.
 Rancher, Frederick
 Scanlon, Michael
 †Schenck, George
 †Schenck, Theo.
 Shull & Badger (Brick)
 Weigand, Edward & Son
 Weitzel, Daniel
 Wick, P. C.
 CALIFORNIA—Powell, J. A. & Co.
 Ward, T. H.
 CANNONSBURG—†Briceland, J. & Son
 Cowan, Thomas
 Dnnlap, W. H.
 Holliday, A. C.
 †Schanghency, M. C.
 Speer, James
 CARBONDALE—Atkinson, Hugh
 †Edgett, W. H.
 *Gibbs, John (Brick)
 Hansen, Jno. & Son
 Nolan, Jno. J.

- CARLISLE—†Brindle, A. N.
Brown, Harry G.
Fagen, Jno. H.
Lackey, H. A.
†Porter, James
Shatto, Jos. W.
Tritt, Jos. A.
Yarnall, W. S.
- CARNEGIE—†Dushane & Lewis (Large)
Gow, George
Morton, E. Clark
- CATASAUQUA—Emanuel, D. L. (Large)
*Garbian, Christ. (Brick)
†Goldsmith, Franklin (Large)
- CHAMBERSBURG—Bingham, H. A.
Bingham, Robert
Franklin, Wm. B.
Hafer, Frank
Keagy, Franklin
Llffey, Howard
Lochbaum & Williams
McCanns, Jno. W.
Minnich, D. B.
Minnich, Geo. & Son
Nelson Construction Co.
Thomas, Abraham
- CHESTER—*Armstrong Bros. (Stone)
†Bell, Samuel R., Jr. (Large)
†Bowen, I. M.
†Hewes, Geo. D.
†Hewes, Samuel A.
†Hoffecker, Joseph S.
†Kerr, A. R.
†Lane, Joel
†McCray, Heston D.
†Morris, H. Lewis
†Nolan Bros. (Large)
†Oliver, J. & T. (Large)
*O'Rourke, John (Brick & Stone)
†Provost, William, Jr. (Large)
*Rumford, W. W. & H. W. (Brick)
†Sheaff, A. P.
Sheaff, Geo. W.
†Taylor, J. Irvin (Large)
*Ward, William
*Watterson, Geo. (Stone)
Wiser, William J.
*Worrlow, D. R.
- CLEARFIELD—Beiler, J. K.
Coudric Bros.
Gulick, L. P. & L. D.
Hess & Lukens
†Shank, S. P.
†Snoke, J. D. & Bro.
Thompson, R. H.
- CLIFTON HEIGHTS—Bishop, Edgar
Kelley, Francis
Manly, T. F.
Riggs, Frank
- COATESVILLE—†Ash, Charles H.
Cloud, Chas. W.
†Coates, J. Howard
†Dean, Frank A.
Doan, J. Ellsworth
Dunleavy Bros.
Elliott, Wm.
†Entriiken, John M.
Groce, Geo. W.
Hindman, Samuel J.
Jacobs, Clayton
Miller, Samuel C.
Thompson, W. A. P.
- COLUMBIA—Broome, John C. (Plasterer)
Cramer, Henry H.
†Diet, Marion F.
†Ferguson, John G.
†Forry, John D.
†Hoffman, Samuel S.
†Houghendobler, Wm. H.
†Imiswiller, Wm.
†Jacon, Samuel
*Kilnesmith, John (Brick)
†Koons, Edw. B.
*Lockland, David K. (Brick)
†Walker, W. F.
†Weeber, Jno. J.
- CONNELLSVILLE—†Connellsville Construction Co.
Keystone Planing Mill Co.
Sisley, J. M. Co.
- CONSHOHOCKEN—Blanche Bros.
Cox, Christopher
Davis, Samuel
Hallowell, R. T. S.
Jones, A. H. & G. W.
Vanvosten, Howard (Stone)
- CORAOPOLIS—Baldwin, Charles
†Boyd, H. C.
Curry Bros.
Edwards, C. L. & Co.
Corry—Mount, A. P.
Sandburg, V. M.
- DANVILLE—Reifsnnyder, G. F. (Brick), 332 Church
†Trumbower & Werkheiser (Large)
- DARBY—Armstrong, J. T. R.
Fink, Jos. P.
Gotshall, Adam J.
Nealon, J. F. & Co.
Roberts, John T.
Woodward, Howard M.
- DORRANCETON—Ransom, Coray B.
Ransom, Geo. E. & Son
- DOWNINGTON—Guile, J. & Son
- DOYLESTOWN—Cloud, Morris E.
†Hager, William L.
Nyce, David D.
Treffinger, Lewis
Worthington, F. L.
- DUBOIS—Betts, Stiteler & Co.
Kline & Potts
Overdorf, W. H.
- DUNMORE—†Cole, Janson
Gilbons, Martin
Huff, Curtis
Packard Wm.
Parsons, Benj.
Sanders, John
Wells, Saml. O.
- DUQUESNE—†Buckholtz & Stratton (Large)
Kerr, C. W.
†Morgan, W. C.
†Voss, Otto
Workman, A. V.
*Schmidt, John C.
†Stringer, W. J.
- EAST MAUCH CHUNK—Duffy, John (Brick)
*Exenner, Chas. & Son (Brick)
†Herman, Anthony & Sons
Peschal, John (Brick)
†Rehrig, Aaron
†Stelne, Christ.
- EASTON—†Keim, Reuben
†Lerch, Frank J. & Co. (Large)
Luttenberger, Jacob
†Morganstern, L. F.
†Raub, Jacob (Large)
Slebler, W. F.
†Steinmetz & Walter (Large)
- EAST STROUDSBURG—Hoffman, A. Y.
Hoffman, C. S.
- EDWARDSDALE—†Jones, Herbert S.
- ELLWOOD CITY—Frey, A. C.
Shaner, W. D.
Young, H. W.
- EMPORIUM—Kriner, J. W.
- EPHIRATA—Hoover, M. G.
Urich, George
- ERIE—Ackerman & Son, Berst bldg
Atholf, Benj., 1112 Holland
*Baldwin, G. Daniel, 710 State
Baldwin, James, 710 State
Bright, John, 521 W 2d
Cass, Wm. H., Buffalo rd nr City limits
Clark, Elmer O., 1122 E 26th
†Constable Bros. (Large), 5th & Sassafras
Davey, Wm. H., 627 W 9th
Dodsworth, R. P., 1040 W 12th
Elser, C. G., 610 W 9th
Feichtner, Wm., 632 E 24th
Graham, J. E., 2750 Peach
Graham, W. M., 31st & Peach
Halcott, O. M., 635 W 9th
Held, Jno. J., 2719 Peach
Herman, Geo., 1240 E 21st
Hicks, Wm. T., 614 E 23d
Himberger, H. H., 629 Brown's av
Irvin, Wm., 2504 Wayne
Johnson, Chas. J., 2715 Holland
Kintner, C. L., E Lake rd nr City limits
Kirsch, J. D., 1137 E 26th
*Kirschner Bros., 421 E 9th
Knoll, B. & Son, 130 W 20th
Laird Bros., 620 E 19th
Lininger, E. D., W 26th nr City limits
Lloyd, H. L., 637 18th
Malthauer, J. P., 2617 Myrtle
Marks, Chas., 214 W 21st
Mayerhoefer, Jacob, 555 E 7th
Mehl, C. A., 819 East av
Mensing, Fred., 1162 E 21st
Meyer, Jos. P., 320 E 22d
Miller, Hy. O., 214 W 3d
Milloy, D. S., 939 W 9th
Pressly, John T., 2424 German
Purcell, Thos., 228 E 22d
Riblet, W. S., 454 E 6th
Rys, Paul, 711 E 14th
Schaaf, P. C., 322 W 23d
Schafer, Julius H., 124 E 5th
Schaper, C. H., 139 W 20th
†Schroeck, Adolph, 904 E 11th
Shaddock, J. M., 1102 E 25th
†Shenk, Henry Co. (Large), Sassafras c 12th
Sherline, W. A., 617 German
Sundburg, Chas., 2710 Holland
Uht, Amandus, 434 E 9th
Weber, A. S., 455 E 9th
Wilhelm, Peter, 234 E 22d
Zesinger, P. J., 26th & Browns av
- FRANKLIN—Burford & Lundager
Burgard, J. R.
Cralg, Leland
Eshelmdn, W. H.
Hunsberger & Ritchle
Long, H. W.
McKenzie, E. E.
Theobald & Thomas
- FREEDOM—*Mohr, G. H. (Brick & Stone)
- FREELAND—Boyle, J. W.
Griffith, Jas. E.
Lentz, Louis H.
Lentz, R. E.
- GALETON—†Joslin, Eugene
Kelley, N. Roger
- GALLITZIN—Berkey, David
Bracken, M.
Schultz, M.
- GETTYSBURG—Comfort, Chas. H.
Johns, Wm. H.
- GIRARDVILLE—Maurer, Jacob J.
Wagner, C. A.
- GREENSBURG—†Bott, L. W.
Cochrane, Jas.
Coe & Murphy
Long, O. P.
McCann, P. F.
†Stark, H. F.
- GREENVILLE—Bortz, L. G. & Son
Heilman, G. H.
†Heilman Bros.
- GROVE CITY—Atwell, E. F.
McCoy, J. P.
Maxwell, J. B.
- HAMBURG—Geary, E. M.
Longalaw, Sam'l, N 4th st
Machner, Frank S.
Miller, P. N., N 4th st
Motes, John J.
Motes, M. H.
Raubenhold, A. J., S 4th st
- HANOVER—†Coulson, J. W. & Bro.
Eckewroad, Jos.
Gates & Snyder
Klunk, W. J.
Pressell, Jno. A.
Rohrbaugh, J. F.
Slagle, W. H.
- HARRISBURG—Ball, Wm. G.
Bastress, J. N. & Co.
Baughman, Jos. J.
Bucher, Julius (Stone)
Fram, H. S.
Gettys & Girvin
Harrisburg Const. Co.
Kamerer, A. N., 9th nr Market
Keenportz, Wm. H.
†Lebo, E. N., 1922 Berryhill
†McKelvey, J. J., 1311 N Front
Markley, Wm. D.
†Miller, Chas. H., 824 N 7th
Miller & Long
Morrow, Jos. W.
†Ness, J. K., 220 Pepper
*Opperman, H., Jr., 131 Paxton
Randall, W. F. & Co.
Rhoads, Daniel H.
Sellers, G. L.
Sollenberger, D. S.
Weaver, V. M.
Wildman, Aug.
Zimmerman, J. H., 1329 Howard
- HASTINGS—Keough, Orville
Lord, J. A.
Stuttmatter Bros.
- HAZLETON—Boyle, J. A.
†Boyle, P. F.
Bucher, Herman (Stone)
Campbell, Hugh
Campbell, Daniel A.
Eroh, Jacob
Gregory, Jno., Jr.
Gutshall, Jacob
Itter, Chas.
McHose & Curry
May, Frederick
Rausch, Benj.
Strohl, Wm.
†Veale Bros.
†Wagner, Philip
Wetterau, Chas. & Co.
Ziegler, Wm. D. & Son
- HOLLIDAYSBURG—†Condron, Jos. B. (Large)
†Drass, Jno. B.
†Hunter, M. S. & Sons (Large)
†Irvin, Robert C. (Large)
†Schilling, C. M.
†Schilling, Wm.
- HOMESTEAD—†Bryan, Isaac
Elliott, R. M. & Co.
†Erlberck Bros. (Large)
Freeborn, Harry
†Hall, George M. (Large)
†Honse, J. M.

Leader, John G.
Morgan, Thos. W.
*Murray, Chas. F.
*Reese, D. W. (Brick)
Richards, Philip
Snyder, J. O.
Walker, Lewis
†Wickerman, G. V. L. (Large)
Wolfe, John
HONESDALE—Brown, R. H.
†Kreitner Bros.
HUNTINGDON—Edelblute, Jno.
†Hall, J. C.
†Isenberg, John L.
†Kidd, W. S.
†O'Mara, W. J.
Oakman, Isaiah
INDIANA—Hastings, John S.
Lockard, E. M.
IRWIN—Bender, Jos.
Frick, J. L.
Henry, Z. T.
JEANETTE—Fairchild, J. W.
JENKINTOWN—†Carson, Samuel D.
Fitzgerald, Thos.
*Hager, Thos.
Horan & Leswing
O'Neil, Jas. D.
Sperry, G. Walter
JERMYN—Hallstead, Wm. H.
Hoffecker, L. W.
Matthews, Geo. H.
JOHNSTOWN—*Bader & Co., 615 Sherman
*Gruber, Jacob (Brick), 410 Somerset
†Horner, B. F., 444 Franklin
†Hornick, C. C.
*Keenan & Co.
*Kelghton, Rohrt., 418 Lincoln
*Knorr & Trapp, 125 Gautier
†Lloyd, W. & Son, 426 Main
†Lloyd & Jones, 320 Vine
Overdorff, E.
*Rohlnson, E. N. (Brick)
†Rose, W. J. & Sons, 328 Lincoln
Schenkemyer, Chas.
Seigh, W. F.
†Soly, Lucas, 429 Davis
†Smith, W. H. & Bro., Hickory st
*Thiele & Co. (Stone)
Wilson, W. C.
KINGSTON—Coon, B. G.
†Shepherd, J. M.
Williams, R. A.
KITTANNING—Baker, E. H. (Stone)
†Claypool, J. S. & Co.
*Daugherty, Geo.
†Hellman Bros.
†Helner, Wm. A.
†Kling, F. M.
*Klugh, Geo. (Stone)
McGregor, John G.
McVay, F. B. (Stone)
†Milson, Bert
Raabe, Chas. (Brick & Stone)
Watt, Thos.
LANCASTER—†Anne, Geo. W., Jr.
†Auxer, Adam J., 528 E Chestnut
†Bachman, J. M., 830 Columbia av
Bally, O. Wilmer
†Bally, Samuel H., 514 S Shippen
*Bolhach, Geo. (Stone)
†Breneman, Jos. P.
*Drachbar, Henry (Brick), 543 E Orange
†Burger, Henry
†Eisenberger, Wm. V.
†Evans, Clifton, 28 S Lime
†Fehl, Jacob W.
†Flick, G. Samuel, 606 E King
†Gahle, John S.
†Gazell, George
*Green, J. Milton (Brick)
*Harlan, David (Stone)
†Hartman, John K.
†Henry, Samuel H.
Jeffries, Samuel B.
*Kaufman & Kraemer (Stone)
*Krimmel, Chas. F. (Brick)
*McMellin, Elias (Stone), Exchange Hotel
†Moore, Ambrose
†Morrow, Robert M.
†Oster, Geo., 138 N Mary
†Rapp, D. H., 536 St. Joseph
†Shindler, Henry
*Shoenberger, Samnel (Brick)
†Stumpf, Jacob & Son
Wiant, Herman L.
Winter, Aldus J.
Wissler, Henry K.
†Wohlsen, Herman F.
†Wohlsen, Peter N., Jr.
Zook, Joseph S., 527 N Lime
LANSDALE—Cresson, F. C.
Detwiler, Jno. B.

Godshalk, Chas. D.
Kaufle, Jno. J.
LANSDOWNE—Burdall, Wm. H.
Garrett, E. O. & Bro.
Ingram, Jas. K.
Moore, Chas. T.
Roberts, Richard R.
†Shuster, Wm. C., Jr.
Wilson, J. S.
LANSFORD—Hall, Thos. J.
Riehe, Herman
LATROBE—†Anderson, Geo. C. & Sons (Planing Mill)
Herman, Jno.
†Kuhn, A. L.
LEBANON—Allwein, F. M.
Buffamoyer, David & Sons
Dullehawm, Geo. D.
Hetrick, Henry B.
Millard, J. B. & Son
Miller Bros.
†Reinoehl Lumber Co.
Roehuck, Wm. S.
Schwegler, Matthew
Swope, Chas. D.
Wengert, Martin B.
†Witmer, A. H.
LEECHBURG—Ehrenfeld, C. A.
Muffley & Stewart
Walferd, Michael
LEWISTOWN—Ahrens, H. E. & Bro.
Harris, Jno. V.
Mechley, Willard
Montgomery, Harry B.
Smith, E. A.
White, Wm. J.
LINDSEY—†Long, Jas. K. (Large)
McKean, Harl
LOCK HAVEN—†Beck, John
Eckert, J. S.
Friedel, J. H.
Glossner, Daniel
†Good, Geo. S.
Hawkins, G. W.
†Johnson, J. C.
*Salmon, Henry M. (Brick & Stone)
Shaffer, Chas.
†Xander, Allen
LUZERNE—Bryant, Jos. A.
Edwards, Chas.
Mathers, Charles
†Pemberton, W. J.
Sage, Thos.
†Snyder, Alexander
Thompson & Son
LYKENS—Douden, F. A.
Rettinger & Son
McDONALD—Hunter, J. G.
†McBeth, A. B.
Mathew, P.
McKEESPORT—Bowman Bros.
Briek Bros.
†Hoey, Edw. D.
†McCord, William
McCreary, Milton
Nowell, Wm.
White, Jno. C.
McKEES ROCKS—Booth Bros.
Bryan, Frank
Green, Samuel C.
†Herbst, Jacob & Co.
Jones, David R.
MAHANAY CITY—Christ, H. K.
Degler & Mengle
Gorman, Edw.
†Kester, J. W.
†Schoener, Wm. M.
MANHEIM—†Gingrich, N. W.
MARIETTA—†Bahn, Adam
Cassel, H. Burd
Reinhold, Jno. J.
MAUCH CHUNK—†Neast, Charles
†Sanders, Josiah
*Stermer, Nathan (Stone)
MEADVILLE—Miller, C. E. & J. W.
Morrison, Wm. E. & Son
†Richards, Paul H.
Sidler, Geo.
Wimmer, Isaac, 477 Poplar
MECHANICSBURG—Baum, H. A.
Hershman, J. W.
Pentz, Hy. H.
Susquehanna Cont. & Const. Co.
Weaver, Calvin
MEDIA—Flounders, Albert L.
Flounders, Jas. B.
Ford, Wm. H.
Henderson, Robert M.
Hinkson, W.
Seal, Jos. C.
Thomas & Graul
†Worrall, Winfield S.
MIDDLETOWN—Baumhach, Adam
†Fink & King
†Hoffman, H. C.
McNeal, Martin

†Kline Lumber & Construction Co.
†Lawrence County Lumber Co. (Large)
McConahy & Martin
Miller, J. H. & M. E.
†New Castle Lumber & Con. Co.
Patterson, W. C.
NEW HAVEN—Duggan, Jno.
†Patterson, Cooper
NEW KENSINGTON—Berg, Albert
†Doherty, Geo. S.
Kaine, M. G.
†Laughlin, R. O.
†Laughlin, W. J.
†Sinclair, E. J.
†White, Henry
NORRISTOWN—Comfort, Jno. E.
Detwiler, Geo. M.
Doran, L. J.
Evans & Boyer (Stone)
Greger, Jacob B.
†Groff, J. B.
†Heavener, F. R.
†Himes, Jno. S.
*Haupt, Daniel E. (Stone)
Jenkins, Benj. F.
*Landis, Isaac (Stone, Large)
McGrath, Jas. A.
Shannon, Daniel
†Shuler, F.
Simpson, H. M.
†Smith, T. V.
†Spencer, J. W.
*Todd & Comfort (Stone)
†Wager, B. F.
White, Daniel H. (Brick)
NORTH EAST—Bogue, M. H.
Lyon, F. K.
Pendergast, T. R.
Smith, W. J.
Woodruff, N. S.
OIL CITY—Crouch, E. M.
Dickson & McMillen
Hallett, H. H.
Kramcr, C. F.
Lewis, Jno. A.
Schuhert, Wm. C. F.
Weaver, W. B.
Weikal, David
OXFORD—Brown, D. F. & J. T.
Jones, Geo. E.
Schock, Howard
Schwan, Augustus
†Sides, W. S. & Son
Yost, Charles
MIDWAY—Taylor, A. A.
MILTON—Ditzler, John
†Foust, Jacob
Harble & Hause
†Johnson, J. W.
Kint, Isaac
Kint, Thomas
†Koch, S. H.
Phillips, M. H.
†Rohison, J. W. S.
Teufel, Christian
Teufel, Joseph
Teufel, Michael
Waldron, Chas. L.
MINERSVILLE—Dornhach, H. H.
Kueck, J. H. & Son
MONONGAHELA CITY—†Yohe Bros.
Yore, C. N.
Yore, Frank
MOUNT CARMEL—†Geiger, Gibson & Co.
†Keefer, George H.
Morse, Geo.
MOUNT OLIVER—Grotefend, Albert
Klein, A. F.
Strauss, Charles
MOUNT PLEASANT—Carbaugh, George M.
Cristian, Jacob
Fishell, John
Swartz, E. B.
Willwood, William
NANTICOKE—Beers, Chas. O.
†Fahringer, I. & Sons
Hamilton, Jno.
Hedden, W. H.
Jones, Thos. P. & Son
May, Alfred W.
NAZARETH—Hahn, Frank P.
Messinger, Jacob H.
Roth, Henry W.
NEW BRIGHTON—†Bradshaw, J. A.
†Garmen, C. & Sons
Hart, Frank D.
McDaniel, R. B. & Co.
†Martsolf Bros. (Large)
NEW CASTLE—Allen, R. H. & Sons (Stone)
†Barnett Bros.
Chambers, Wm. H. (Brick & Stone)
Cochran & Parady
Davis-Beyers Cont. Co.
Huey, Samuel R.

Reburn, Jno. L.
Walker & Gibson
PAITSONS—†Burt, Peter
†Ney & Hicks
†Ross, G. V.
PECKVILLE—Barber, Edgar
Peck Bros.
Peck, W. W.
PEN ARGYL—†Ede, Walter
Hoppock, E. B. (Brick & Stone)
Milton, Frantz
Repsber, Jno.
†Shannon, Ede
PHILADELPHIA—Adams, Clarence F., 55th & Arch
*Aiman, S. C., 55 N 10th
Albrecht, Wm. F., Broad & Huntingdon
Alcott Bros., 2917 N Broad
†Allen, Jas. J., 6318 Burbridge, Gtn
†Allison, Frank W. & Co., 1710 Rittenhouse sq
Altemus & Brown, 219 N 11th
†Anderson, A. A., 1803 Mount Vernon
†Appleton & Burrell, 1204 Chancellor
*Ardis, Albert A., Jr. (Brick), 219 S 5th
†Armstrong, Jno. W., 1750 St. Paul
Armstrong & Latta, Delaware & Christian
*Arthur, Richard (Brick), 2055 Amber
†Ashby, Jos., 2d Street Park, Fox Chase
*Atkinson, John (Brick), Builders' Ex
Auth, Hermann, 3949 Kensington
Bader, Daniel S., Betz bldg
Baldwin, Harry J., 4113 Chestnut
†Baldwin, Wm. M. & Son, 4113 Chestnut
†Ballinger, R. C. & Co., 218 N 13th
†Barnes, Wm. G., 2055 E Allegheny av
Barr, Geo. C., 1709 Moravian
Barritt, Chas. H., Drexel bldg
Bartlett, J. Crawford, 2101 Spring Garden
*Bateman, Jno. J., 851 Locust av, Gtn.
Bauer, H. W., Greene & Wyoming
Bauer & Snyder, 4523 N Gratz
*Bauman & Leeds (Brick), 800 Parrish
†Bean, Nathaniel M., 4351 Germantown av
†Beatty, Robert & Bro., 2314 E Dauphin
*Bechtel, Joseph, 140 Fairmount
Bennis, R. P., Cottage boul
†Benson Improvement Co., 4531 Springfield av
Bertrand, Paul, 1031 Lawrence
†Bird, Jos., 213 N 11th
Biscoe, W. E., 3950 Ludlow
Bleck, Eugene G., 2855 Boudmot
†Bleim, I. E., 5133 Knox
Boggs & Co., 57th & Cedar
*Boorse, David O., 1625 Thompson
*Boorse, H. B. (Brick), 1100 Glenwood av
*Bortwick & Pringle, 8018 Germantown av
Bottoms, Abel & Sons, 41 S 15th
Bowers, Jno. T., 16th & Snyder
Bowers & Logan, Heed bldg
Bowser, Seward L., 15th & Wingohocking
†Boyd, M. P. Co., 1714 Sansom
†Bradin, James A., 2036 Sansom
Brady-Dackert Co., 1120 Chestnut
†Bramble, Collin F., 2202 N Colorado
Brann & Stuart Co., Arcade bldg
*Brennecke, Chas. (Brick), 324 N 61st
†Brenneman, J. E., 1523 S Front
Brockelhurst, Harry, 512 W Norris
†Broome, Fred'k, 4003 Sansom
Brown, Arthur S., 816 E Allegheny
Brown, Felix, 27 N Juniper
Brown, Jos. R., 614 Union
†Brown, T. Frank, Vernon bldg
†Brownlee, Alex. R., 136 E Price, Gtn
Bruggman, Fred'k 718 S Broad
Bryan, T. & W. J. (Ltd.), 276 S American
Buchanan, Robert, 5419 Chester
Buckman, S. A. & Son, 2331 N 15th
†Budd, Albert G., 4011 Spring Garden
Buzby, H. H., 6368 Main
Byers & Clarkson, 806 Walnut
Campbell, A. A., 2012 Poplar
Campbell & Son, Virginia & Lansdowne
Cannoe, Nicholas, Greene & Luray
Carberry, Thos. J., 110 E Chelton
*Carlson, Jno. G., 307 N 38th
Carr Bros., 1333 Dickinson
Carroll, Eugene A., 6003 Girard av
Cassel, Jacob M. & Son., 13th & Alabanus
†Castor, Frank G., 8204 Frankford av
Chambers, Wm., 2512 Huntingdon
Chambley, Alex., 243 S 10th
*Chestnut, Wm. (Brick), 5228 Race
Christensen, Adolph, 1433 Brown
†Christy, W. & Son, 2202 S Broad
Churchill, Frank P., Musgrove & Hortter
*Clark, H. K. (Brick), 741 N 20th
Clark, James E., Weightman bldg
Clark, P. J., 7223 Woodland
Clark, Samuel S., 806 Chestnut
Clark & Armour, 53d & Chester
Clement, F. H. & Co., Land Title bldg
Chuck & Walker, 170 E Walnut

†Conneen, Andrew M., 1256 N 10th
Connor, James, 2548 Memphis
*Connor, Thomas (Brick), 3333 N 5th
†Cornell, Jno. S. & Son (Large), New Land Title bldg
†Corrison, Wm., 52d S of Lancaster av
Corson, E. S., 20th & Cumberland
Costello, P. E., Torresdale
Cramer, Sam, 2918 W Dauphin
Cramp & Co., Commonwealth bldg
Crossan, Kennedy, Land Title bldg
Crowell, Jas. M., 23d & Tioga
Cunningham & Murray, 1345 Arch
†Dagney, J. H. & T. W., N 7th & Oak la
†Dahl, Henry C., 241 S 6th
Daniels, Morris J., 252 S Juniper
Davis, F. B., 6 N 13th
Decatur, Jos. H. A., 1524 N 27th
De Frain, Edwin, 3225 N 12th
Delmar, James J., 2425 E Allegheny av
Denny, Chas. W., 1330 Arch
De Planque, F. R. & Son, 341 N 4th
Detwiler, E. W., 1925 N Camac
Diemer & Gilbert, 1109 Fairmount
Dieterle, John G. (Stone), 104 W Penn, Gtn
Dilks, Harry M., 3579 N 17th
*Doak, Albert (Brick), 408 S 19th
DOAK, JAMES G. (General Builders), Crozer bldg. (See adv. index, end of book)

DOYLE & CO. (General Builders), 1519 Sansom. (See adv. index, end of book)

Dobbins, Bernard A., 8341 Germantown av
Dobbins Bros., 8341 Gtn av
†Donovan, Jno. I., 139 N 12th
Dorsey & Smith, 111 N 7th
†Dougherty, W. R. (Large), 1604 Sansom
†Downward, Geo., 1325 S Frazier
Drake & Stratton Co., West End Tr bldg
Duff, Thomas, 3648 Frankford
†Duncan, John, 920 Walnut
Dyer, Jno. P., 330 N 9th
Dyer, Jno T., Harrison bldg
†Easterbrook, Wm., 519 Commerce
†Eckman, Chas. H., 2127 N 16th
†Eddlema, Wm. H., 453 Green la, Roxb.
Einwechter & Hodges, 314 Richmond
†Elliott, Lewis R., 1700 N 18th
†Elvidge, Fred'k, 5225 Morris
*Emery, Jno. B. (Brick), 1835 S 15th
Emery, Jno. W., 1524 Sansom
†English, Frank G., 1003 N Marshall
Ervin, Jos. J., 1618 N Carlisle
†Evans, Burd P., 706 N 9th
Eyre Construction Co., Arcade bldg
Faber, Chas. P., 55th & Cedar
Fassett, Chas. M., 1834 S Rosewood
Fassitt, Albert J., 518 S 10th
Fatz, Harry, 4913 N 5th
Fay, Edward & Son, 2666 Richmond
Federal Realty & Const., 53d & Chester
Ferguson, Alex, 52d & Baltimore
Ferguson, Wm. E., 635 W Tioga
*Ferguson, Wm. H. (Brick), 341 N 57th
†Ferguson, Wm. & Son, 405 S 21st
†Ferguson & McDowell, 5916 Chester
Finlay & Belfield, 130 N 12th
Fischer, Wendelin (Stone), 3261 N 5th
†Fitzgerald, Jas. A., 1128 Washington av
Fonder, Edw. F., Land Title bldg
*Forbes, Robert (Brick), 1302 N Conestoga
Forepaugh, Jos., 2743 E Venango
*Forsyth, Frank M. (Brick), 3417 N 16th
Fossell, Geo. C., 128 Chelton av, Gtn
†Foster, Jas., 31st & Ludlow
Fretz, A. & Son, 1222 Chancellor
*Friel, John J. (Brick), 3108 N Front
†Fritzinger, Jno. W. & Son, 468 Lyceum av
Fry, Jno. L., Real Estate Trust bldg
*Fullerton & Bro. (Brick), 2154 E Norris
Funk, E. Y., 1502 N 21st
*Gaffney, Jno. J. (Brick), 612 S 52d
*Gamon, Thos. (Brick), 1629 Christian
†Gardner, Geo. W., 511 N 40th
Garis, Jno., 239 Mentor
Garrett, Percy H., Mayland
Gerber, Albert D., American & Ionic
†Gibson, Harry, 3811 Fairmount av
Gibson, Jno., 231 S 45th
†Gilbert, Edwin & Co. (Large), Weightman bldg
†Gill, Harry, Jr., 2200 Gtn av
†Gill, Jno. N. & Co., 1215 Filbert
†Glazier, Herbert S., 2519 Master
Glenn, Geo. A. & Co. (Brick), 930 N 8th
*Glenn, J. Temple (Brick), 4819 Cedar av
Godfrey, R. C., 1619 Venango
Gohn, Andrew, 3815 Fairmount av
†Goodfellow, G. & Son, 130 S Clifton
*Gordon, Daniel P. (Brick), 2987 Salmon
*Gordon, Jas. M. (Brick), 2110 E Somerset
*Gordon, Jno. H. (Brick), 2314 E Lehigh av
Gorman, Edw. F., Westminster & Farson

†Gorman, Jno., 4465 N Gratz
*Gourley, Samuel (Brick & Stone), 1511 N 19th
†Grant, J. Frank, 1625 N 13th
Grau, H. E. Co. (Large), Perry bldg
*Greene, Jno. F. (Brick), 950 N Marshall
*Greaves, H. B. (Brick), 833 E Chelton av, Gtn
Greiner, J. L., Heed bldg
†Gruhler, Wm. J., 219 E High
Haldeman, Geo. D., 1417 Marvine
Hallowell, Chas. T., 650 N 53d
Hammett, A. J. & Co., Builders' Exchange
Happ, David, 5231 Ridge
Hare, Chas. F., 1810 S 17th
Harlunger, Chas. W., S Penn sq bldg
Harmer & Quinn, Fidelity bldg
*Harrar, N. D. (Brick), 145 N 56th
*Harris, Franklin M. & Co. (Brick), 1820 Wylie
§Harting, Samuel, 6 E Johnson, Germantown
Havens, Fred. A. & Co. (Large), 16th & Chestnut
Havens, Herbert E. (Large), Girard bldg
*Haws, Geo. W. (Brick), 839 N Uber
Hazlett, Hugh, 1701 N 20th
Hazzard, Jos. R., 403 S 23d
†Headman, Enos R., 2539 Germantown av
†Heinke, Charles A., 160 W Sharpnack
†Heist, Harry H., Broad & Colwyn
†Henderson, Wm., 108 S 20th
Henderson & Co. (Ltd.) (Large), 1221 Arch
Hennebique Construction Co., Witherspoon
†Herzog, Benj., 2214 N Howard bldg
Hill, Chas. L., 1344 S 4th
Hill, Frank R. City Line & Reading R. R.
Hector, James F. (Brick), 4625 Lancaster av
Holmes, Joshua M., 158 Luray
Holt, Henry, 30th & Race
†Hoover, F. L. & Sons, Inc., 631 Chestnut
*Howard's, Jas. W. Sons (Brick), 1714 Bainbridge
†Howden's, Jno. Sons, 245 N 16th
Hudson, Henry H., 156 Queen, Gtn
*Humphries, J. (Brick), 2710 W Huntington
*Hunter, Jas. J. (Brick), 134 Dickinson
Hurley, P. J., 1216 Chancellor
†Irwin, Henry M., 1613 Ranstead
Jarrett, Chas. F., 2637 Poplar
Jenkins, L. Z., 14 S Broad
Johnson, W. H., Jr., 1420 Chestnut
Johnston, James 1713 Sansom
Jones, Wm. B., 4805 Frankford
Jones & Montieith, 2656 N 3d
Jordan, Jacob R., 907 Walnut
Jordon, Robert, 7248 Saybrook
†Keefer, Elisha H., 1308 Rodman
Keen & Co., Arcade bldg
Keenan, D. F., Arcade bldg
†Keeney, Thoe. M., 116 N 16th
*Kelly, Edw'd (Brick), 843 E Chelton av, Gtn
Kelly, Michael H., 20th & Ruscomb
*Kelly, P. H., Lippincott bldg
*Keohane, Jno. J. (Brick), 1918 Cherry
Kerr, Wm., 2004 Naudain
Kerstulja, M., 6021 Chestnut
Ketcham's, B. & Son, 1029 Brown
Killough, Robert, Chelton av & 21st
Kimball, Wm. S., 326 S 43d
King, Henry H., Pine & Frazier
†King, Killough & Co., Germantown & Gas
*King, Matthew A. (Brick), 3714 Fairmount
†Kinnier's, Jas. Sons, 111 E Chelton av, Gtn
*Kirkpatrick, Robert (Brick), 2119 Fitzwater
Kister, Henry M., 120 S 7th
Klett, Jno., 1307 N 27th
Kline, J. W., 5202 Walnut
†Kline, J. W. & Co., 2121 N Broad
†Koch, Henry, 408 Fairmount av
†Kohl, John W., Arcade bldg
Kohl, Wm. S., 101 E Washington
†Kramer's, Jno. Sons, 1314 N Front
†Krautter, Fred'k J., 2843 Kensington av
†Krewson, Thos. C., 803 Master
Kuehn, Herman C., Loudon & Green
Kurtz, Isaac R. & Co., 1619 Marvine
†Lam Building Co., 624 Cherry
†Lamb, Jas. F., 263 S 12th
Land, Chas. D., 29th & Lehigh
*Lane, James, 1024 Master
†Lange, Frederick, 2268 N Woodstock
Latta & Terry Construction Co., Penn bldg
*Law & Burwell, 24th & Locust
*Lawrence & Keating, 1308 Rodman
Leger, Nathan J., 55th & Chester
Lehigh Improvement Co., 2815 N 29th
†Linn, Amos W. & Sons, 4767 Garden
†Little, Thomas & Son, 1615 Sansom
†Loflin, Geo. W., 241 N 63d
†Loflin, Jno. B., 3512 Filbert
Louchheim, J. H. & Co., Mint Arcade bldg
†Loughran, John, Tioga & 13th
†Luff, Samuel L., 1821 Fairmount av
Lynch Bros., Lippincott bldg
†Lynch, Thos. A., 1619 N 15th

JAMES G. DOAK

G. M. MAICAS

JAMES G. DOAK & COMPANY

BUILDING
CONSTRUCTION

CROZER BUILDING, 1420 CHESTNUT STREET

===== PHILADELPHIA =====



LABOR SAVING APPLIANCES, TOOLS^{and} SUPPLIES

We have the best facilities in this country for furnishing to our subscribers, free of charge, the names and addresses of the leading manufacturers of the latest improved machinery, tools and appliances etc., for working and handling all kinds of metal, wood, stone, slate, earth, minerals, etc., such as :

Air, Gas and Gasoline Compressors
Cranes for all purposes
Pneumatic Tools and Appliances
Derricks, Hand or Power
Hoists, Hand or Power
Elevators, Electric, Hydraulic, etc.
Excavators and Dredges
Conveyors for all kinds of materials
Castings of all kinds
Steam Shovels
Machine or Hand Tools
Machinery for all Purposes
Engines for all Purposes
Electric Generators and Motors
Drills for all Purposes
Power Transmission
Agricultural Implements
Locomotives, Cars, etc.
Tools of Every Description.

Complete equipment for Railroad, Machine Shop, Foundry, Mine, Quarry Mill, Factory, Electric and Gas Lighting, etc., in fact everything wanted for manufacturing plants or to carry out economically large contracts.

S. E. HENDRICKS CO.,
74 Lafayette St., NEW YORK



McBride, Eugene H., Jasper & Thayer
 †McCarty & Whitman, 345 York av
 †McCaul, Charles Co., 10 N 11th
 McChesney & Biddle, 616 Race
 McClellan, David A., Germantown & Lehigh
 McClintock & Weaver, 24 Phil Ellena
 McCloskey, Jos. V., 47th & Baltimore
 McCloskey, P. H., 5532 Lawrence
 McCormick & Co., 14 S Broad
 †McCoy, John, 1113 Cherry
 McCullough, Frank, 63d & Elmwood
 McCurdy, Peter, 5213 Walnut
 †McDevitt, P. J., 1918 Cherry
 McFadden, Cornelius, 45th & Walnut
 †McFadden, John, 2039 Rittenhouse sq
 McFarland, Geo. C., Springfield av
 *McGraw, Jas. & Co. (Heavy Buildings, etc.), Arcade bldg
 †McKee, Robert, 120 N Salford
 McMenamin & Sims, Arcade bldg
 McMullen & McDermott, Real Estate Trust bldg
 McNichol, Jas. P. & Bro., Betz bldg
 McNulty Bros., 1026 Buttonwood
 McNutt, Jos., 1929 E Allegheny av
 †McVaug, Thos. S., 2d st pk, Oxford Church
 Macauley's, J. Sons, 1321 Eyrie
 †MacDowell, S. B. & Son, 1927 Montgomery
 MacTavish & Hazzard, 1515 Pine
 *Magee, Michael & Co., Commonwealth
 †Maginnis, John, 333 Walnut Trust bldg
 Malz, Otto (Stone), 1539 N Alder
 Marshall, Thomas, Thomas, 61st & Spruce
 May, Fred'k & Son (Brick), 120 E Haines
 Megraw, John, 52d & Chester Gtn
 †Melody & Keating (Large), 1218 Chestnut
 †Mendenhall, Hayes, Jr., 3942 Haverford
 Metzger & Wells, Heed bldg
 Meynon, Geo. O., 935 N 7th
 *Millard Construction Co. (Heavy Building), Penna bldg
 Millett, A. B. & C. F. Boyr & Durham
 †Mitchell Bros., 2125 Race
 Mitchell & Thomson, 60th & Spruce
 †Mole, Jas. & Son, 1718 Cayuga
 Monagan, Jas. H., 2009 Sansom
 *Monongahela Construction Co. (Power Houses, Round Houses, Railroad Buildings, Factories, etc.), Perry bldg
 †Monteith, Geo. R., 3017 N 4th
 Mooney, Thos. J., 4138 Market
 *Moore, Samuel E., Broad & Chestnut
 *Moore, Wm., 1014 W Clearfield
 †Morguer, Ricard C., 2046 N 5th
 Morris, John, 2213 Ridge av
 Morris, Martin, 2058 Van Pelt
 Morrison, Matthew, 2322 N Howard
 †Morrison, Samuel, 3635 N 5th
 Morrow, Wm., 320 Harmouy
 Moss, J. Franklin, 58th & Girard av
 Mullen, Jas. A., 5212 Vine
 *Mulloy, Jas. (Brick), 2024 N 21st
 Munday, D. J., 13th & Lehigh
 Murphy, M. P., 263 S 10th
 Myers, Jacob & Sons, Torresdale & Knorr
 Myers, Jos. F., 1237 Ridge
 †Neff, Reuben W., 6609 Gtn av
 †Nutz & Worthington, 1308 Wallace
 Oberholtzer, Michael S., 5528 Pulaski
 †O'Brien Bros., 5624 Chew, Gtn
 Oliver Bros. & Co., Stephen Girard bldg
 Ostrander, A. H., 1638 N Carlisle
 †Parker, S. D., 5925 Baynton, Gtn
 †Patterson, Wm. J., 46 W Southampton av.
 Paul, Jos. W. (Brick), 2222 N 6th C Hill
 *Paulson, Fred'k (Brick), Island rd c S 75th
 †Payne, Geo. F. & Co., 401 S Juniper
 Pennock, J. E. & A. L., Land Title bldg
 Pfauf, Jos., 2255 N 5th
 Plank, W. W., 1117 S 47th
 †Platt, Chas. J. W., 1015 Arch
 *Ploucher, Jno. J., Jr., 4941 Willow, Fkd.
 Prentzel, A. H., Johnson & Sherman
 †Price, Jos., 2048 Rittenhouse
 Quigg, Wm. H., Fidelity Mutual bldg
 †Raff, A. Raymond, 1635 Thompson
 Rea, H. C., 3440 N Broad
 Rea, J. Harvey, 1026 Appletree
 Rea, Saml. J., 1608 Fairmount av
 Rea's, Wm. W. Sous, 1815 Francis
 †Reber, C. M., 1018 Spring
 *Reeves, J. W. & C. H., 925 Darien
 †Reeves, Stacy & Sons (Large), 1611 Filbert
 Reid-Turnbull Cons. Co., Penna bldg
 Reilly, Thos., 1616 Thompson
 Reilly & Riddle, Walnut la & Oros
 Reusswick, Harry, 137 N 10th
 Rhoades, J., 4132 Chester
 †Richards & Shourds, 1125 Spring
 †Richey, Merritt W., 5008 Penridge
 Riggs, Frank S., 608 Chestnut
 Riley, M. B., 1225 N 8th

†Rinker, Frank H., 440 Winona, Gtn
 Robson, Robt., 1827 Naudain
 Roesch, Geo., 2435 N Sydenham
 Roth, Geo. S. & Sons, 230 E Graver's la
 Roydhouse, Arey & Co., Fidelity bldg
 Ruch, G. W. & Co., 2851 N Hutchinson
 Ruff, John G., 1831 Masters
 Rusk, E. J., 52 16 Spruce
 *Russell, Charles (Brick), 4041 Ludlow
 †Rust, Harry R., 828 Filbert
 Ryan, Walter Co., 15 N 4th
 Sanders, Samuel S., 519 Richmond
 Saunders, Hy. T., 230 N 22d
 Schaible, Chas., Unruh & Torresdale
 †Schmidt, Matthew, 1308 N 6th
 *Schmitt, Albert (Brick), 2449 N Hancock
 †Schneider, Henry P., 3713 Old York rd
 Schnell, C. & Co., Drexel bldg
 Schmitt, Harry, Smith & Tabor
 Schmunk, John, 612 W Cambria
 Schuler, Cloyde A., Penn & Wakefield
 †Schultz, Henry G., & Son, 3340 N Carlisle
 Schuster, John, 3535 Marvane
 Scranton, Arthur, 1215 Filbert
 †Seeds, Thomas M., Jr. (Large), Pelham rd
 Seka, Jos., 14 Highland av & Westview
 Sergeant, Jos. Co., 617 S 20th
 *Sergison, Harry (Brick), 2004 Naudain
 Shafer & Leonard, 21st & York
 Shand, Robert E., 533 N 63d
 †Sharp, C. F., 1706 De Laucey
 †Shedwick, Wm. J., 618 N 34th
 Shivers, Summer M., 209 S 6th
 Shock, James R., 5401 Osage av
 †Shoemaker, H. B. & Co., 242 Manheim
 Shoemaker, Samuel, 5603 Haverford
 Siegel, Clarence R., Locust & Melville
 †Sipps, Geo. L., 212 S 7th
 †Sladen, G. E., 1224 Clover
 Smedley Construction Co., 2d
 Smith, Chas. & Son, 4215 Haverford
 Smith, E. E. Contracting Co., Broad & Arch
 Smith, Elwood, 1015 N Marshall
 Smith, Hardican Co., Perry bldg
 Smith, Jno. H., 1033 Tasker
 †Smith, Walter B., Real Estate Trust bldg
 Smith, Wm. B., 2019 Master
 Snyder, L. Sons, 217 N 16th
 †Snyder, L. V., 128 S 2d
 Snyder, Winfield S., 409 S 8th
 *Sommer, Chas. B. (Brick), 2429 N 2d
 †Sorber, Geo. A., 13 Harvey, Gtn
 Sorensen, P. A., 422 N 12th
 Southeastern Construction Co., West End Trust bldg
 Spenard, A. H., 830 Wood
 Sperry, D. W., 1305 Arch
 Sperry, W. H., 2501 Ridge
 †Stafford, John, 1112 Chestnut
 Stahl, Frank K., 4530 N 18th
 †Steele, Wm., & Sons (Large), 1600 Arch
 Stehle, Wm. B., 3436 Germantown
 Stephey, Jno. E., 1612 S 72d
 †Sterling, Bowman S., 608 Chestnut
 Stern, Samuel, Crowson & Locust av
 Stevens, Frank, Pleasant & Musgrove
 Stevenson, H. Winfield, Wynnefield
 Stevenson, Jas. L., Ridge & Diamond
 †Stewart Bros., 2526 N Orkney
 *Stilley, Henry P. (Brick), 2410 Nicholas
 Stiteler, Jas. M., 5209 Chestnut
 Stoll, Frank A., 1432 Germantown
 †Straw, R. J., 3618 Powelton av
 †Street, Tammany P., 903 Carlton
 †Strode, R. W. & Sons, 6 N 18th
 *Stuckert, J. Franklin, 1421 Chestnut
 †Sturts, Ernest H., 2614 Ridge av
 Summers, Jos. R., 54th & Kingsessing
 Suplee, Edwin F., 3440 Filbert
 Sweeney, Frank (Brick), Heed bldg
 Taylor, James M., 247 N Watts
 †Tecklenburg, Wm., 2005 N 5th
 Thayer & Co., 1232 Commerce
 *Thomas, Hy., 422 S Van Pelt
 Thomas, Oliver, 518 S 10th
 Thompson, John B., 1740 Ludlow
 †Thompson, J. P., 1432 S Penn sq
 Thompson, Jno. D., 308 S 12th
 †Thompson, Jos. N., 2044 Cuthbert
 Thompson, Wm. N., 1529 Filbert
 †*THOMPSON-STARRETT CO.
 (General Building Construction, Penna bldg
 Tipping, Geo. W., 277 S 11th
 Tomlinson, Geo., 1948 S 15th
 †Tomlinson, Jos. S., 1710 Venaugo
 †Tourison, Ashton H., 28 Mole
 †Trafford, Thos. C. (Large), 2335 N 15th
 Tryday, Walter, 1623 Sansom
 Turner, Jas., 703 E Chelton
 Uhle, Henry, 8131 Germantown av
 Vare, Edwin H., Betz bldg
 Waldman & Fastman, 237 South
 *Walker, Wm. T. (Brick), 3955 Gtn av

Wallace, Frank E., 13th & Chestnut
 Walsh, Richard, 9th & Sedgley
 *Walter, Chas., Jr., 1613 S 3d
 †Wanner & Stinson (General Builders, etc.),
 Warren, Alfred E., 28 N 5th Head bldg
 †Watson, Geo. & Son, 907 N Marshall
 Weadley, Sidney H., 670 N Park
 †Wells, C. F. & Son, 228 S 8th
 †Welsh, Thomas M., 758 S Broad
 Weyman, Frank, 1103 E Susquehanna
 *Wheeler, Benj. F. (Brick), 1676 Wilton
 Whelan, Jas. T., 3402 F
 †Whitehead, Alfred, 1624 Latimer
 †Whiteside, Rush J. & Sons, 2115 Wallace
 Wiggins, Jno. R., 1215 Filbert
 Wilkey Bros., 5436 N Water
 †Wilkinson, Robert, 1705 Carlson
 Williams, Frank D., Commonwealth bldg
 †Wilson, A. C., 4060 Powelton av
 Wilson, Alex, Jr., 5156 Haverford
 †Wilson, J. Sims, 1125 Brown
 *Wilson, Robert, Franklin bldg
 Wintz, Frank I., 1618 N 27th
 Woepel, Chas., 6th & Lycoming
 †Wright, A. J., 5317 Catherine
 †Wright, Wm. C., 22 Harvey, Gtn.
 †Yoder, Andrew D., 1221 Jefferson
 Yost, William, 2751 Frankford av
 †Yundt, Charles J., 3d & Tabor rd
 †Zane, Anthony M., 26 S 15th
 †Zane, George W. & J. M., 2047 Tioga
 *Zanger, Albert C. (Brick), 1920 N 5th
 PHILLIPSBURG—Wilcox, H. B.
 PHOENIXVILLE—†Carter, Harry
 †Elliott, Harvey V.
 †Harley & Young
 †Hawk, Alex.
 †Keenan, Jas.
 Kneer, Wm.
 Lowery, Irvin B.
 Pennypacker, J. C. & Co.
 PITCAIRN—†Graham, J. M.
 †Leshar, Frank
 †Palmer, C. W. (Large)
 PITTSBURG—Abel & Blake, Rodgers av
 Adams, J. A., 1114 Wallace av
 †Alberts, W. E. Co., 6019 Kirkwood
 Alexander, M. G., 334 Bank
 Allen, Isaac M., 7258 Hamilton av
 Anderson Bros., 2518 Hallett
 Baile & Grant, 6032 Station
 Baldensperger, Samuel G., 6014 Centre
 Barnett, J. R., W Liberty
 Barton, Jno. H., Tokio
 Beatty Bros., 2001 Market
 Beers, J. W., Beechmont av
 Bennett, Geo. L., 7147 Monticello
 †Bennett, W. B., 742 N Negley av
 †Benz, L. & Bros. (Large), 90 S 13th
 Bigelow, Jno. E., 5159 Stanton av
 Birch, W. M. (Brick), 422 3d av
 Bishop Const. Co., 311 Chestnut
 Bole, Geo. M. Const. Co., 202 9th
 †Bollinger Bros., 133 1st av
 †Bollinger, Andrews Cons. Co., Fulton bldg
 *†Booth & Flinn, 1942 Forbes
 Border, O. D., 1831 5th av
 †Bossinger, Edw. H., 516 E End av
 Boyce, Jno., 3 Cross.
 Brinkman, Chas., Witherspoon nr Chislett
 Broide & Baumgardner, 1848 Centre
 †Brown, Benj. F., 5990 Center av
 Brown, J. J., 147 Auburn
 Brown, W. E., 7230 Hermitage
 Brown, J. M. (Brick), 425 2d av
 Brown, Wm. J., 235 Fairmount av
 Brunner, O. Z., 6830 Simen
 Buchan Bros. (Brick), 246 3d av
 Burgess, O. M., 7934 Maderia
 Busse, Henry & Co., 112 Wabash
 Butler, Geo. E., Ferguson blk
 Central Brick Co. (Brick), Soho nr Wads-
 worth
 Chance, Chas. H., 98 Park View boul
 Conley, Jno., 233 Virginia av
 †Commercial Building Co., Fitzsimmons bldg
 Corns, A. E., 1225 Franklin
 †Crawford, D. F. Co., 603 5th av
 Crosbee, Irving C., Penn av & Wood
 Crosbie, Jno. H. & Co., Penn av & Wood
 *Cullen & Grant (Brick), Washington National Bank bldg
 Cumpston, Wm. M. (Brick), 7240 Kedron
 Day & Goodwin, 5990 Centre
 Deeds Bros., Westinghouse bldg
 Denny, Jno. M., 1424 N Canal
 †Dick, Wm. J., Glenshaw av
 Dies, W. H., 1208 Wylie av
 Donovan, B., 3547 California
 Duffee, Love L., 203 Dennison av
 Dumont, Joseph, 51 Boggs av
 Dyche, D. A., 5803 Kirkwood
 Ebert, W. C., 6710 Frankstown
 Ehrlinger, Jno., 71 Van Braam

Elliot, Jno. S., 820 Webster av
Engelhard, E. F., 6444 Marchand
Evans, Geo. E., 8th & Penn av
Evans, W. S. & Co. (Brick), 103 Water
Fair, D. M. & Son, 6101 Penn
Falkenau Const. Co., 914 River av
Fellabom, L. H., 1001 Heberton av
Fischer, F. L., 2005 Forbes
Foley, Patrick Co., 12 Wabash
Foran, Gilbert A. (Brick), 16 Wabash
Fox, William, 1035 Evergreen av
Francis, T. & Co. (Brick), Blackadore av
Fritz, David, 642 Maryland av
Fulmer, Frank H., Fulton bldg
Gailey & Chambers, 404 Lowell
Gerberding, Samuel L. (Brick), 7718 Kelly
Getty, Robert A., 369 Berkshire
Gibbs, Chas. S., Kirk av & Church
Gibson, Jas. H., 7723 Edgerton
Gilbert, Edw. & Co., 5100 Woodlawn
Gillespie, T. A. Co., Westinghouse bldg
Golden & Crick, 3512 5th av
Graham, Wm. L. (Brick), Gibson nr Old Franklin rd

†Groah, Benj. A. & Co., Empire bldg
Groah, Thos. H., 305 Lowell
Hager, Howard Co., Penn & Sheridan
Hahn, Leonard, 7607 Hamilton av
Hall, Geo. M. Co., 7th av
Hall Bros. (Brick), House bldg
Hare, Robert W., 632 Penn av
Harvey, Jno. N., 245 3d av
Herr Bros. Co., 1803 Montier
Home Const. Co., Davis & Kendall
*Houlette, Thos. Co. (Brick), 331 4th av
Houggy, C. W.
†Howley, W. E., Frick bldg
Huff, A. L., 6101 Penn av
Hulem, E. H., 1209 Franklin
Hulem, J. W., 1249 Franklin
Iron City Const. Co., 5928 Penn av
†Jones, Evan, Diamond Bank bldg
Keller, Geo. J., Maple av
†Kerr & Fox (Large), 2565 5th
King, Geo. W., 4115 Liberty av
Knauff, Geo., 726 Taylor
Knipp, G. & J., 159 Luna
*†Kreusler, H. L., 3301 Penn av
Lamont, Robert & Sons
†Lauer, J. & Sons, 814 Portland
Lejanne, Simon, 136 Parkway
Long, J. Luther, Penn av & Wood
†Lydon, Mark, 5409 Keystone
Lyon, Robert B., Keystone bldg
Mazer Const. Co., Ferguson blk
†McCaslin, Samuel, 6824 Kelly
McClary, Thos. E., Poplar
McMellian, J. E., Block
McClure, Geo. W. Son & Co., Bessemer bldg
McCurdy, J. M., 532 Cherry al
McElhatten, O. F., 244 Meredith
McFarland, Robert, Thorn
McKay, Jno. (Brick), 920 Adelaide
McKee, Geo. E., Alger
McKelvy, Hine Co., Columbia Bank bldg
*McMahon, P. H. (Stone), 257 Lombard
Marshall, Wm., 5226 Harrison
Martolf Bros. (Brick), 4 Smithfield
†Martolf, Fred'k C. (Large), 218 4th av
Masi Bros. & Somma Co. (Brick), 4735 Liberty
†Mason, Wm. B., 512 4th av
Mason & Miller, 329 1st av
†Milby & Reed, Park bldg
Miller, A. V., 416 Carbon
Miller, D. B., 222 McKinley
Miller, Wm. & Sons Co. (Large), 23 Federal
Milliken, J. A. & Co., Beechwood boul
*Monongahela Cons. Co. (Power Houses, Round Houses, Railroad Buildings, Factories, etc.), House bldg

Moore, Hamilton, 436 4th av
†Murphy Bros., Mon. National Bank bldg
†Murphy & Hamilton, 8th & Penn av
Negley, H. D., 7134 Idelwild
Nickel, Geo., 4406 Calvin
Nichols & Irwin, Bissell blk
†Nicola Building Co., Farmers Bank bldg
Norman, B. L. (Brick), Times bldg
†Ott Bros., 414 Washington av
Owen, Jas. (Large), 411 4th av
Patton, David, 5135 Dearborn
Payne, W. J. & Sons Co., Washington av
Pearson, T. L. & Co. (Brick), Penn av & 8th
†Pittsburg Cons. Co., Diamond National Bank bldg
Ploch, Wm., 56 19th
Poorbaugh, Jno. M. & Sons, Times bldg
Powell, Geo. N., 431 4th av
Powell, W. T., 508 4th av
Quinn, W. J., 42 McKee
Redecker, L. A., 3 Main
Reilly, Thos. P., 5th & Morewood avs
Rice, H. E., 6530 Winslow
*Richmond, A. & Son (Large), 541 Wood

Rifle, David T. (Brick), Fulton bldg
Ritz, Wm. J., 700 Collins
Roberts, H. G. (Brick), 4727 Blair
Roehrick, Wm., 113 Steuben
Rudsill, Geo. H., 320 Thorn
Scholz, Ernest W. (Brick), Laurel av
Seabright, Jas. & Son, 5902 Harvard
†Senge, Michael, 5272 Keystone
*Shenk, Henry Co. (General), Lewis blk
Shipley, Geo. E., 1346 Lincoln
†Siebert, Jno. & Sons Co., 1700 Jane
Siewarth, Chas., Beltshoover av
Smith, Chas. S., 5501 Center av
Smith, S. L. Co., 613 Ross av
Spryer, Peter, 5118 Liberty av
Staats, E. H. Co., 5156 Penn
Standard Bldg Const. Co., 10th
Steel & Hall, 820 Webster
Stein, Nick W., S 18th
Stevens Bros. (Brick), 31 Water
Stevenson & Adams, 209 9th
Stewart, H. S. A., Morewood av
*†**STEWART, JAS. & CO. (Large)**, Westinghouse bldg. (See adv. index, end of book)

Thomas, Wm., Arlington & Julia
*Tompkins, Alfred, Bailey av
†Van Ormer, Harry C. & Son, 6101 Penn av
Waite, Wm., 2504 Jane
Wells, John (Brick), 28 Ruth
Wick, L. C. & Son, Bailey av
Wilcox, E. C. & Co., 8 Wood
Williams, T. J., Ferguson blk
Wilson, A. & S. Co. (Large), 543 3d av
Wright, Wm. O., 6200 Penn av
Yeager, F. A., Bessemer bldg
Zahner, Anton, California av
PITTSBURGH—†Allen, W. R.
*Breton, W. C. (Brick)
†Dershimer & Griffin, 123 S Main
†English, Robt. J.
Myers & Gray
O'Boyle & Fay
†Reilly, J. J.
†Snell, W. G. & Son, W P
Van Loven, J. H.
Wicks, John

PLYMOUTH—Cooper, J. D.
Marks, L. E.
†Perkins, Harry
Ransom, Chas. C. (Large)
Thomas, Theo. G.
Watkins, Chas.

PORT CARBON—O'Neil, P. J.
†Runkle, Chas. R.
Slattery, J. W.

POTTSTOWN—Beckley, Geo. B. McClellan
†Davidheiser, F. B.
†Davidheiser & Wiand (Large)
Gabel, C. H.
Grubb & Huber
Halteman, J. L.
Hertzog, W. D.
Keiser, F. H.
Showalter, J. W.
Willauer & Son
†Yocum Bros.

POTTSVILLE—*Adcock, John (Brick), 502 Minersville
Aregood, S. C.
Fertig, Jno.
Gildemeyer, Chas. A.
Griesbaum, Wm. J.
Heffner, Jas. E.
Henne, W. & Co.

Kilgus, Jacob, Pierce
Knoll Bros.
†Medlar, L. T., 7 N 9th
Messersmith, Clarence A.
Pinkerton & Reinhart
Schneider, Jos.
Schum, Albert
†Zimmerman, Jno. H.

PUNXSUTAWNEY—Long, J. K. & Son
QUAKERTOWN—Barringer, Jas. L.

†Biehn, Milton B.
Foulke, Jos. E.
Martin, Wm.
*Mease, David W.
Shuler, F. M.
Stoneback, J. W.
Stonebach, Jas. B.
Taylor, C. M.

READING—Anthony & Shade (Brick)
†Beard, Geo. W. & Co. (Inc.) (Large), Colonial Trust bldg

Beard & McConnell (Brick), 516 Franklin
†Brossman, Adam B. (Large), 503 Oley
†Buckey & Stump, 49 S 8th
†Dampman, D. E., 529 Court
†Dampman, Elmer (Large), Baer bldg
†Davis, H. P., 1911 Perk av
†Esenhower, L. L., 1021 N Front
†Eyrich, A. P., 1128 Green
†Fassnacht, J. H., 1138 Douglass av
Fegley, C. B. (Brick), 1037 Perry
†Fessler, I., 120 N Buttonwood
†Flick & Sticher, 341 Locust
*†Focht, L. H. & Son (Large), 529 Court
†Freehafer, D. M., 125 S 10th
George, S. (Brick), 1213 Olney
Gift & Moyer (Brick), 625 N 10th
†Graeff & Bro., 519 N 8th
†Hartman, H. J., 412 S 11th
†Helne, Jos. A., 1904 Perk av
†Helfrich, W. W., 515 S 18th
†Hemmig, Albert, 309 Washington
Hoffmaster, J. Henry (Brick), 235 Wood
†Hinnershitz & Rehr, 124 Cedar
†Hoyer, L., 543 Moss
†Hunter, D. H., 820 N 11th
†Keller, A. B., 1012 Spring
†Kline, Jacob, 639 Walnut
†Koch, J. S., 413 Spring
Koch, W. (Brick), 112 Mulberry
†Kretz, A. H. (Large), 1201 Perk av
†Landis, E. W. (Large), 213 N 6th
†Matz, Jas., 13th & Cotton
†Matz, J. F. & Son, W Reading
†Moser, David, 920 Washington
Mumma, W. C., 943 Green
Neihart, J., 406 S 11th
†Price, H., 810 Franklin
†Price, R. A., 606 Washington
†Ramer & George, 1209 Olney
†Rehr & Fricker (Large), 124 Cedar
†Reiff, M. W., 37 Reed
†Reinert, F. B., 1323 N 10th
†Rhode, A., 44 Penn av, W R
†Rudolph, H. D., 723 Church
†Rummel, F. L. (Large), 234 Moss
Schaetzle & Weinfeld, 668 N 12th
Schmehl, J. W. (Brick), 624 N 11th
*Selders, Jeremiah (Brick), 929 Douglass
†Sharp, W. A., 1036 N 10th
†Shearer, D. R., 1422 N 10th
†Sherman, G. H., 722 N Front
†Trostle, H. F., 700 Penn av, W R
†Ubil, J. G. & Son, 251 S 10th
†Warren, J., Lancaster av, Oak b'k
†Weidner, J. R., 1036 Cotton
†Weiser, 1044 N 6th
†White & Wagner, 1207 Oley
†Yeich, W. R., 133 Penn

RENOVO—Consadine, John
Englert, Jacob
Hoy, James H.
Irwin, H. M.
Jones, Jas.

REYNOLDSVILLE—Baldorf, August
†Miles, Robert L.
†Myers, Jeremiah
Swab, H. A.
Young, J. V.

RIDGWAY—Edwards & Son
†Hyde, Murphy & Co.
Newburg & Olson
Ross, P. C.

ROCHESTER—†Bennett, S. S. Co.
Denison Coal & S. Co.
*McDonald & Hartman (Brick & Stone)
Miller, Wm. & Sons Co. (Large)
Torrie, John

ROYERSFORD—†Adams, Lewis
Brunner, Samuel
Mowry, Jacob (Large)

When writing to firms
whose names appear
in this book please
mention

HENDRICKS'
COMMERCIAL
REGISTER.

ST. CLAIR—†Kear & Crowe
†Thorn, W. W.

ST. MARYS—†Butsch, M. C.
Glass, Matthew
Jacobs, Jno. A.
†Jacobs, Jos.
Wegener, Peter

SAYRE—Adamy, E. D.
Rockwell, E. A.

SCHUYLKILL HAVEN—Becker, Irwin H.
Henne, W.
Phillips, Daniel H.

SCOTTS DALE—Elcher Bros.
Johnson, Lowery
†Stoner, A. F. & J. P.
†Wirsing, J. W.

SCRANTON—Battle, Daniel, 613 Fig
†Benore, John (Large), 710 Scranton
Boland, C. T., 1131 Pittston av
Boland, P. S., 508 Oak
Burke Bros., Connell bldg
Cadden, Michael A., 1125 Luzerne
*Caputo, Louis, 140 S Main
*Carlucci Stone Co. (Large)
Colligan, John, 628 N Wash'n av
Dunning Engineering & Construction Co.,
Mears bldg
Dean, Reuben C., 1440 Church av
Deubler, Morris, 308 Theo
Dunn, Benjamin, 1113 Del
†Elias, David P., 1310 Washburn
†Flinn, Ezra & Sons, c Ash & Penn
Flanagan & O'Brien, 1717 Luzerne
General Contract & Construction Co., Con-
nell bldg
Hagen, Ferdinand & Son, 526 Alder
*Havens & Williams (arge), 312 Lake av
Holly, I. B., 711 Court
Hower & Stender, Jeff av & Ash
Huff, Curtis, 507 S. Blakeley
†Hughes, Edwin G. & Co., 230 S Main av
Kelper Bros., 815 Quincy av
†Lathrop, Shea & Henwood Co. (Large),
Board of Trade bldg
Lord, Charles N., 1248 N Wash'n
Lord & Waterman, 948 Wyo. av
Marwick, J. & Co., 1427 Luzerne
†May, George, 136 Washington av
†May, Patrick F., 344 S. Wash'n av
Morris, John, 306 N Rebeca av
†Moyer, F. M., 1101 Penn av
†Muldoon, Pat'k, 1226 Penn av
Mulherlin, John, 1107 Mitchell
Mulherlin & Judge, 1400 Remington
†O'Neill, John T., Commonwealth bldg
†Parks, John, 409 Hallstead ct
†Schroeder, Conrad (Large), Connell bldg
Shlffer, Wm. J., 122 Milfin av
Stripp, Matt, Board of Trade bldg
Snook, S. M., Mears bldg
Sprague & Henwood, Board of Trade bldg
Spruks Bros., 220 Webster av
Stipp, Peter (Brick & Stone), 327 N Wash'n
*Sykes, S. & Sons, 1235 Penn av
†Washburn, Williams & Co. (Large), 131
Mer'dn
*Wheeler, Irving H., 1330 Wash'n av
†Wheeler & Haines Co. (Large), 920 Penn av
Williams, Edwin S., Coal Exch. bldg
Williams, W. R., 314 Main
*Woelkers, Beilman & Zitzelman (Stone,
etc., Large), Mears bldg
†Woodling, J. J., 617 Dupont ct

SEWICKLEY—†Challis, Daniel W. & Son
Hill, R. M.
†Moore, Albert
*Shearer Bros. (Stone)
Snrles, H. F.

SHAMOKIN—†Coates, T. J. & Bro.
Fry & Davis
†Helm, D. D. (Large)
†Kessler, Jos. W. (Large)
Raup, H. P. & Sons (Large)

SHARON—Baker & Taylor
*Bell, A. W. (Stone)
*Budd, B. F.
Oalrey Bros.
Flower, Chas. S.
*McIntyre, Wm. & Son (Brick & Stone)
McLeery, Richard H. & Co.
Peters, A. R.
†Taylor Bros.
Wlshart, A. & Sons Co.

SHARPSBURG—Charles & Emerich
Houggy, C. W.
Moyes, W. E.
Schran, J. H.
Yerkins, Geo.

SHENANDOAH—Bell, Jos.
Burns, John
†Cooney, John
Conville, John
Davis, Jesse B.
Dougherty, Christ.

Evans, Benjamin
Gerber, Frank
Houser, John
†Johnson, J. W.
Kennelly, Daniel
Kotz, Lewis
Laing, John
Laing, William
Lindemuth, John
Master, M. H.
Metger, Henry
O'Hearn, James
Rohland, Thomas
Schoppe, Charles
Thomas, W. A.

SHIPPENSBURG—Fredinger & Rock
†Heller, Marcus
Hosfeld, John (Large)
Pomeroy, Wm.
Robinson, L. M.

SLATINGTON—†Bachman, Henry J.
†Follwelller, A.
*Graver, W. S.
Handmerk, F. & Son
†Kern Bros.
Relly & Snyder

SOUTH BETHLEHEM —†Beysher, Cornelius
(Large)
Birkel, Benedict H.
†Danzer, William F. & Co.
*Groman Bros. (Brick & Stone, Large)

SPRING CITY—*Herner, Jno. F.
†Keiter, John
*Miller, Irvin
†Spotts, Henry

STEELTON—Barley Bros.
Martin, W. F.
Smith, A. B.
Wright, E. B.
Wright, H. C.

STROUDSBURG—Miller, Gideon H.
Palmer & Dreher
Phillips, M. L.
Shifer Bros.

SUMMIT HILL—†Breslin, Andrew
Stout, Chas. H.

SUNBURY—Fetter, Isaac O.
†Keefer, G. W.
†Keefer, J. S.
Keefer, Peter R.
Wolf & Elster

SUSQUEHANNA—†Benson, L. O.
Perry, F. P.

TAMAQUA—Becker, Hy.
Delzert, Christ
Rice, Jacob
Scheid, Jno.
†Schilbe, J. A.
Smith, Julius
†Urich, Jos. B.
†Weaver, Daniel & Son (Large)
Williams, O. B.

TARENTUM—†Ferris & Campbell
Gravatt, Jas. A.
Morrell, G. R.
†Myers & Sefton
†Ready & Barthollic

TITUSVILLE—Allen, Edward
Foster, David
Hesch, P. M. & Son
Johnstone, Robert
Nixon & Lamont
Robinson, Myron O.

TOWANDA—Acla, Jno. W.
Brennan, John
†Brutsman, Andrew B.
Calagan, James M.
Drislane, Richard
†Fenner, Delanson, Jr.
†Fenner, Orlando
Gordon, David
Kianer, Charles
Ronan, W. P.
†Searles, Irving W.

TREVORTON—Martz, Jacob
Schweitzer, Charles A.
Shutz, J. M.
Sigafos, Michael

TURTLE CREEK—†Clark, H. S.
Hale, Wesley M.

TYRONE—†Beam, John B.
*Lanners Bros.
†Heinly, A.
†Nevling, John A.
†Shirk, T. T. (Large)
†Warling, Frank B.

UNION CITY—Clark, Eugene E.
Gross, William
Jackson, W. E.
Le Barron, O. D.
Middleton, J. W.
†Wright, George

UNIONTOWN—Baird & Baer
Beighley, Isaac N.
Burchinal & Frankberry

Carr, Jno. D.
Conn, J. P.
†Eggers & Graham
†Frankenberry, Jas. D.
†Humbert & Co.
†Ingraham & Gibson
McCormick, W. C.
Pyle, C. W. & Co.
Reason, Lynch & Co.

WARREN—Baker, Edwin F.
Dunham, O. E.
Hamlin, Charles
Holmberg, Solomon
Lavery, W. R.
Offerle & Smith
Pixley & Swanson
†Swanson, Theo. F.
Uhdey, C. W.

WASHINGTON—Blackhurst, Thos. H.
Burns, H. R.
*Forrest & Son (Stone)
*Hallam Const. Co.
Kerns, Jno.
*Miller, Jas. L. (Brick)
Milliken, Jno. A. Co.
Milne, Wm. L.
†Pickett, Wm. & Co.
*Reitsch Bros. (Stone, etc.)
†Taylor & Hall
†Van Kirk, Nelson & Son (Large)
†Vester, Stewart & Rossell (Large)
†Walker & Slater (Large)

WATSONTOWN—Rembold, Henry
Zettlemoyer, James

WAYNE—†Dyson, Joseph
†Johnson, R. H. & Co.
†Lengle, J. D.
†Maguire, Frank T.
Willson, Yerkes
Young, Milton

WAYNESBORO—Bakener, Wm.
†Drawbaugh & Brandenburg
Dukehart, A. C.
†Florence, John T.
†Hess, D. W.
†Hess, S. Edward
Pottorff, C. R.
Rider, John F.
Rock, John & James
Rockwell, J. W.
†Shuman, John H.
†Strline, Geo. L.
†Thompson, D. S.
†Warner, A. R.
†Whitlock, L. S. B.

WAYNESBURG—†Acklin, F. D.
†Biggins, Thos. (Large)
†Blair, W. F. (Large)
†Funk, Jonathan M.
†Meek, L. W.

WELLSBORO—†Benjamin, William
Dimmrick, Oscar
†Forsyth, A. J.
Louden, Robert
Riggs, William
†Sturock, A. J.
Weller, Frank
Weller, William
Wetmore, Alvin
Wetmore, Seth
Wingate, A. P.
Wingate, Moses

WEST CHESTER—†Burns, Wm. H.
†Darlington, Howard G.
†Farrell, M. & T. E.
†Griffith, E. R. & W. H.
†Ingram, F. W.
Jefferies, P. E.
†Jones, William H.
*Lewis, Thomas L.
†McFadden, John W.
O'Connell Construction Co.
†Sullivan, Daniel S.

WEST NEWTON —†Finley & Campbell (also
Lumber)
†Neff, C. C. (also Planing Mill)
†Scholl, M. F. (also Planing Mill)

WILKES-BARRE —†Auten, Joseph H., 72 S
Main
†Coil L. J., 59 Gildersleeve
*Cummsky, John (Stone & Brick)
Davey & Washey, 110 E Market
Deutsch, Leo (Stone), c Brown & Mill
Dickover, Geo. T., Simon Long bldg
Eckert, George P. F., 434 Carey av
†Eyeraman, Joseph, 519 S River
Fry, Hendrick W. (Brick), 225 S Main
Gaynor, Joseph M., 77 S Grant
†Hahn, L. H., 103 N Meade
*Hendler, Frederick (Stone), 185 South
†Houser, John B., 19 Barney
†Hull & Sherred (Large), 370 S Main
Kehoe & Mowery, 720 S Franklin
Lynch, Michael (Large), 177 Moyallen
Malloy, Michael C., 389 N Wash'n
Mandeville & Son, 121 S Fell
Miall, Richard E. S., 24 Barney

†Patterson, Samuel, 263 E South
 †Pethick & Curtis (Large), 1 Hickory
 *Phillips, A. S.
 †Ross, Giles, 345 S River
 Schmidt, Jos. (Brick), 181 Lincoln
 *Schmitt, John A. (Brick & Stone, Large),
 202 E Market
 †Shepherd, Wm. H. & Sons (Large), 478
 S Main
 †Silvius, George D. (Large), 33 S Welles
 †Snawley, Wilson A., 167 Academy
 †Smith, Wilson J. (Large), 318 S Franklin
 Wilson, Chas. F. (Brick), 79 South
WILKINSBURG—*Corns, Alfred E.
 †Crosbie Bros.
 *Ecker, A. O., 1226 Franklin
 Guthrie, Edwin F.
 †Haslett, T. H.
 Hulme, Elijah (Brick), 1209 Franklin av
 †Lee, Chas. E.
 †Long, J. Luther
 †Lvtle Bros.
 Miller & Greenwalt, 702 Wood
 †Peffer, E. Z.
 †Pines, J. R.
 †Smith, S. L., & Co.
 Ward, J. H. & Sons, 817 Penn av
WILLIAMSPORT—Bennett & Woodnut (Large),
 Busch & Stewart, 120 W 4th 306 Market
 Coryell Cons. Co., 156 Erie av
 Cupp & Newcomer
 Harman Bros., 320 Locust
 †Hartman, Jno. H. & Bros. (Large), 225 W
 North
 †Huffman, W. H. C. & Sons, 241 William
 Larribee, S., r 630 Lycoming
 †Sheffer, Amos, 944 Erie
 Springman, Chas.
 †Stuempfle, David Sons, 332 Penn
 Vallamont Building & Planing Mill Co., 1009
 †Waltz, Andrew H., 321 Louise Market
 †Waltz, G., 514 5th av
WINDBER—†Penna. Lumber & Construction
WRIGHTSVILLE—Ashton, D. P. Co. (Large)
 Smith, J. P.
 Weller, R. H.
WYOMING—†Rozelle Bros.
 †Shulde, Jno. J.
YORK—Blauser, Edward
 Boyer, Calvin A.
 Brubaker, Henry
 Bushey, J. W.
 Codorus Planing Mill Co.
 Crist, Jacob H.
 Fickes, Barnet G.
 †Gilbert, Geo. W. (Large)
 †Gotwalt & Whisler
 †Hake, A. M. & Co. (Large)
 Hake, Lewis
 Heffner, J. W.
 †Hoff, Henry & Co. (Large)
 Hollinger, Elias S.
 *Hubert & Strough
 Jacoby, Lewis
 †Menough, Jas. L.
 Minnich & Hess
 †Oermann & Blaebaum
 Pfeiffer, Herman E.
 †Seacrist's, Jacob Sons
 *Spahr Bros.
 †Spangler & Bro. (Large)
 †Stare, Eli & Bro.
 Werner, Frank C.
 †Wolf, Howard N.

RHODE ISLAND.

ADAMS—Grinnell, Herbert A.
ANTHONY—*Congdon, George B.
 *Congdon, H. W.
 Foster, H. N.
 *Leonard, Paul
 Macreading, F. H.
 *Scott, Edwin
APPONAUG—Green, Jno. R.
 *Lamb, Patrick
BARRINGTON CENTER—Fisher, L. T.
 Martin, Wm. R.
BLOCK ISLAND—Hays, Jno.
BRISTOL—Bail, Sumner
 Barbour, Chas. A.
 Buffum, Jos. L.
 Le Clair, Eugene
 Rounds, Chas. U.
 Wall, J. H. & Co.
 West, Everett
CENTRAL FALLS—*Callahan, M. & Sons
 †Dolan, J. Stephen & J. B.
 Ferland, J. & Co.
 Lambert, Joseph H.
 Masse, Jos.
 Morean, Louis
 Robert, Octavian
 †Simmons, Geo. A. Co.
 Trahan, N.
CENTERDALE—*Cady, S. H.
 *Keynon, Albert
CENTERVILLE—McMahon, Henry
CHARLESTOWN—Cross, Geo. C.
 Nye, Caleb R.
 *Owen, William K.
CHEPACHET—Keach, E. F.
CLAYVILLE—*Bowen, John W.
 *Pierce, Chas. M.
EAST GREENWICH—*Bullock, Geo.
 *Flanagan, Dennis
 †Holland, James
 †Jones, C. B.
 *Linberg, John
 *Murray, Jas. B.
 *Roscoe, Byron
 Spencer, James E.
 *Williams, Claus
EAST PROVIDENCE—Brown, William T.
 Champlin, John C.
 Cummings, Hugh
 Grant, H. L.
 Healy, F. B.
 McCormick, J.
 McDonald, Allen
 *Millard, Frank F.
 Miner, Joseph & Son
 *Perry, T. A.
 Rhodes, W. H.
 Straight, E. S.
 Whitford, Stephen A.
 *Whitmarsh, Leander F.
EXETER—Huling, Burrill J.
 Joslin, Byron F.
FOSTER—Mowry, Cyrus H.
GREENE—Kennedy, Alvers A.
GREENVILLE—Clemence, Richard
 Mowry, Gilbert A.
 Winsor, Elisha A.
HAMILTON—*Juan, Lewis
 Straight, John
HARMONY—*Coman, James B.
HARRISVILLE—Harvard, Napoleon
 Mathewson, F. L.
 *Le Valley, Joseph
 *Morgan, G. H.
HOPE VALLEY—Barber, E. A.
 *Keynon, G. W.
 Palmer, George L.
JAMESTOWN—Anthony, George D.
 Anthony, Lewis W.
 Wright, Thomas D.
LONSDALE—Collinger, R. T.
NARRAGANSETT PIER—Burns, Robert
 Congdon, Alphone
NEWPORT—Allan, Frederick A., Jr.
 Armstrong, G. E.
 Barlow, Wm. F.
 *Booth, Alexander
 Borden, Wm. M.
 Brown, Jas.
 Bryer, Walter B.
 Bullock, Joseph H.
 Carter & Sherman
 Clark, C. E.
 Coffin, Wm. H.
 Collon, John
 Curry, Robert W.
 *Curtis, Sheldon H.
 *Dawley, William P.
 Dillon, Nicholas
 †Dowling, Philip
 Dring, Walter
 †Fagan, P. J.
 *Fludder, A. J.
 *Friend & Maguire
 Gillies, Jas. M.
 Graham, James
 *Grinnell, R. Jason
 Hodgson, Jno.
 Kane, John F.
 Keeher & Smith
 King Bros.
 Kirby, Michael J.
 *Kirwin Bros. (Large)
 Langley, Wm. H.
 Lucas, Thomas
 Lundgren, G. C.
 McCormick, M. A.
 McLean, Duncan
 Manchester, F. E.
 Mason, John
 Melville, Jno.
 Morgan Bros.
 *Murphy, Michael F.
 Nicol, Alexander
 Patt, David A.
 Peckham, Howard G., Middletown

Peckham, Theodore D.
 *Radford, Jno. (Large)
 †Stoddard & Gladding
 Sullivan, Jno. F.
 Swanson, Charles
 Tanner, B. F.
 Weaver, Freeborn C.
 *White, Benjamin T.
 Wright, John J.
PASCOAG—Gory, Fred A.
 Harvard, Napoleon
 Smith, Edward C.
PAWTUCKET—Beaudet, Edward P.
 Carr, Wm. B.
 †Cole, Wheaton
 Duranleau, J. P.
 *Kilroy, William E. & Co.
 La Plante, Alfred R.
 Leedham, John J.
 Masse, J. & Co.
 Murphy, Louis A.
 Pellier, Antoine
 Reilly, Wm. H.
 †Rowley, Frank G. Co.
 St. Goddard, David
 †Salisbury, Jos. F.
 †Wilmarth, D. L.
 †Wilmarth & McKillop (Large)
PHENIX—Hill, Albert F.
 *McCusker, Owen
 *Stone, Charles
PORTSMOUTH—Coggeshall, Jno. R.
 Grinnell, R. J.
 Manchester, Jno. E.
 *Sherman, George S.
PROVIDENCE—Anderson, A. M. & Co.
 Andrews, Geo. L., 688 Public
 *Armstrong, W. H., 33 Kinfield
 Baldwin, J. D.
 Barney, O. C. & Son
 †Barry, David J., 64 E Manning
 Bartlett Cons. Co., 306 Carpenter
 Batchelder, W. W.
 Bebeau, J. J., Jr., & Co., 77 Orange
 †Beck, Vere W., 108 Orange
 Bergstrom, Chas.
 *Bishop, Jno. W. Co. (Large), Butler Exch
 †Bouchard Bros., 172 Linwood av
 †Bowen, Vincent & Co., 107 Chapin av
 Bradley, Edw. & Co., 20 Clifford
 Briggs, Louis, 31 Plainfield
 Budlong, Louis A., 27 Bowen
 Budlong, Moses, 160 Benefit
 Burlingame, Asa, 21 Douglas av
 Calder, Chas. W., 125 Whittier av
 Candelet, J. E. & Co., 9 Sackett
 Chace, A. A.
 Chapin, A. W., 145 Pine
 †Charles, Andrew F., 4 Pearl
 Charles, Peter F., 18 Plum
 Chase, John A., 5 Baltimore
 Cloutier, Henri & Co., 321 Knight
 *Crankshaw, Chas., 400 Plainfield
 Crowe, Thos. A. & Co., 7 Ward
 Cruickshank, Stewart C., 180 Benefit
 Cull & Williams, 180 Washington
 †Doane, Thos. H., 99 Chapin av
 †Douglass, Daniel P., 254 Thayer
 Douglas, Wm., & Co., 109 Waterman
 *Duggan, John H., 17 Meeting
 †Evans, H. R., & Son, 10 Mathewson
 Fahey, Thos. J., 63 Terrace av
 Foster, Chas. A., Chas. Field & Hope
 †French, Geo., & Co., 54 Friendship
 Gaboriault, H. A., 957 Westminster
 Gammons, S. W.
 †Glover, David & Co., 358 Benefit
 †Halcrow, Wm. J., 88 Clifford
 Harris, Jno. K.
 *Hartwell & Kingston, 49 Westminster
 *Hogg, William J., 37 Meeting
 *Lavole & Trottier, 39 N Main
 Learned, A. C. J. & Co. (Mill Building, etc.),
 Lee, Oscar F. 5 Charles
 Long, Edw. & Sons, 4 O'Neil
 *McGehearty, F'k A., 655 N Main
 McGhee, Robt., 81 Friendship
 McLaren, Jno.
 †McLeod, John, 517 Hope
 †McNamara, Luke, 187 Amherst
 MacDuff, Robert A. & Co.
 *†Maguire & Penniman (Large), 48 Custom
 Mainey, L. House
 Manchester, Albert C. (Large), 136 Dorrance
 Mann, Martin, 21 Ralph
 *Mathewson & Williams
 Matteson & Stone, 23 Central
 May, Jno. G.
 †Miller, Samuel W. K., 16 Harkness
 Mitchell, Jno. C.
 Mullin, John E., 35 Baker
 Murray & Lamb
 Nichols, Wm. L., 74 Bates

†Norcross Bros. Co., 16 Exchange
 Nordquist, P. Oscar
 Northrup, S. G., 62 N Main
 Pay, Alfred W., 16 Crawford
 †O'Neill, M. R., 143 Dyer
 *Peck, James C., 75 Westminster
 Phillips, W. J., Auburn
 Raftery, Jno. T., 55 Candace
 Rancourt, Dolphis, 76 Corliss
 *Read, Hiram S. & Son, 75 Westminster
 Redford, Benj., 30 Garnet
 *Ross, Thos. B. & Son (General), 75 Westminster
 Rowland, Jno. H.
 Scott, Jno. A., 87 Orange
 Smith, Thos. P., 1076 Westminster
 Stubbs, Thomas, 369 Washington
 Sundberg, Nils. J.
 Tank & McKinnon Cons. Co.
 *Thurber, George E., Auburn
 *Turgeon, E., 16 Babcock
 Walsh, John C. Co., 9 Pleasant
 Walter Bros., Cranston
 *Waterman, W. E., 918 Plainfield
 Watson, Wm. H. J., 120 Governor
 Whalen, Jas. F., 671 N Main
 Wilcox, F., 853 Elmwood av
 Wilkinson Bros., 177 Pine
 Winsor, Daniel A., Auburn
 Zuill, Henry, 7 Livingston

RIVER POINT—*Kenyon, Charles
 Tucker, Frank M.
 Vaughn, E. H. & Co.

RIVERSIDE—Jencks, S. T.
 *Warner, A.

SHANNOCK—Card, E. S.

THORNTON—Green, Frank L.
 *McDowell, Hugh

VALLEY FALLS—Marin Bros.
 Morin, John B.

WAKEFIELD—Bell, L. F.
 Brown, J. W.
 Holland, C. H.
 Oatley, Lincoln N.
 Pollock, R. A.
 Shumway & Potter

WARREN—Hall, William
 Murphy, J. H.
 Nichols, H. A.
 †Watson, E. K. Co.

WASHINGTON—Shippee, H. M.

WESTERLY—†Babcock & Wilcox
 Baggs, Joseph E.
 Barber, Wm. H.
 †Barber, W. W.
 Coy & Watrous
 Dunham, Charles
 *Fayerweather, C. H. (Brick & Stone)
 Keuyon, H. T. & Co.
 Maxson & Co. (Large)
 Percy, Stephen
 *Rhodes, William
 Sherman, Robert A. & Son
 Taibot, D. T.

WICKFORD—Bullock, James H.
 *Eldred, A. S. (Stone)

WOONSOCKET—*Allaire, Victor
 Archibald, Geo. W.
 Bibeault, Zacharie
 †Bradford, Jas. E.
 *Breault, Laurent & Son
 †Daigault, Alfred
 Fleurant, John F.
 †Gilman, Jos. & Co.
 *Kennedy, Andrew
 Lamoreaux, Dosithe
 Lucier, Joseph A.
 *McLaughlin, Michael
 Mayer Bros.
 Menard, Louis, Jr.
 †Norton, W. F.
 Simard, Adolphe E.
 †Warfield, Geo. P.

SOUTH CAROLINA.

ABBEVILLE—Sign & Taggart
 AIKEN—George Bros.
 Hines, J. H.
 Laird, Jno.
 Staubers, John

ANDERSON—†Brissy, W. L. (Lumber)
 Hembree, J. L.

CHARLESTON—†Adams & Hutchinson, 14 Atlantic
 Balentine, S. F., 144 St. Philip
 *Boineest, Wilson B.
 Bullwinkel, J. D., 23 Montague
 †Caulfield, M., 61 Laurens
 †De Costa & Edwards, 4 State
 †Devereux, J. H., Post Office bldg
 †Devereux, N. A., 15 Judith
 †Hanley, J. F., 357 King
 †Hollings, L. J., 255 Ashley

†Kerrigan, Jno. E., 89 Beaufain
 †Kramer, B. F., 60 Meeting
 †Lanier, I. F., 116 Nassau
 McCartney, R., 7 State
 *O'Callaghan, C. P., 8 Pinckney
 †Oliver, Henry (Large), 2 Mott la
 †Pregnali, H. N. (Large), 211 Calhoun
 Pregnali, J. F., 10 Gadsden
 †Schumacher, H. D. (Large), 614 King
 †Simons-Mayrant Co., 16 Broad
 Sloan, L. F., 20 Vendue Range
 †Snelson, Jno. T. & N. L.
 Stopplebeen, M. S., 14 Fishburne
 †Trehay, M. J., 5 Horlbeck
 †Vielt, E. T., Magnolia av c Meeting
 †Zacharies, H. T., 129 King
 †Zacharies, H. T., 179 Meeting

CHESTER—Albright, G. A.
 †Carpenter, J. C.
 †Carpenter, M. A.
 Lattimer, W. A.
 Simvill, J. R.

COLUMBIA—Barret, S. J.
 †Heidt, W. J., Columbia
 †May, W. J., Columbia
 Milady, John, Lady st
 Ryan, T. H. & Co.
 †Stewart Contracting Co., 1500 Main
 Walker, L. A., 1106 Lumber
 Wallace, A. M., 1314 Pickens
 †Waring, Clark, 1428 Laurel
 †Waring, Geo. W., Wright's Hotel

DARLINGTON—La Motte, H. J.
 Mooney, C. & Son

FLORENCE—Wilkins, W. J.

GAFFNEY—Baker, L.
 Cecil & Curry

GREENVILLE—Cagie, J. W. (Large)
 Gallivan, J. F. Building Co.
 †Gihson & Morris
 †Grady & Jordan
 Grandy, J. F. & Son
 Shumate, W. T. & Co.

GREENWOOD—Blythe, W. V.
 Wells, J. W.

NEWBERRY—†Davis, W. T. & Co. (Large)

ORANGEBURG—Ayers, D. W.
 Robinson, W. F.

ROCK HILL—Holler, A. D.
 Roddey & Whitner

SPARTANBURG—†Armstrong, B. W.
 †Carson, J. L.
 †Hertzog, Ernest L.
 †Hertzog, J. P.
 †Lemaster, P. Thos.
 †Read, Silas C., Jr.
 †Smith, P. J. O.
 Webber, Albert B.
 †West, J. F.
 †Willard, Charles R.

SUMTER—Green, Moses

SOUTH DAKOTA.

ABERDEEN—Brandes, E. A.
 Fossum, A. C.
 Narregang, George

DEADWOOD—†Barker, John
 †Carver, John
 Hartgering, Jas.
 †Mullen & Munn
 Rickel, J. M.
 Shaw, Aaron
 Tuplin, James

HURON—Jacobson, Otto
 Myers, Walter
 Phillips, Jno.

LEAD—Ballantyne, Alex.
 Stewart, Robert

MADISON—Borland, G. P.
 Buckley, John
 †Garner, A. J.
 †Glatz, Charles
 Proehl, August
 Walker, J. M.

MITCHELL—Briggs, Samuel
 Calhoun, H. H.
 Keith, M.
 †Klags, A. J.
 Purdy, J. C.
 Wright, Jacob

SIOUX FALLS—Almos, A. O.
 Andrews, E. G.
 Booth, R. H. & Son
 Carlinson, Andrew
 Cashman, Louis
 Fealt, Frank
 †Jordan Bros.
 Love & Manning
 Madison, Charles
 †Madison, Jno.
 Marson, T. C.

†Mills, F. D., & Son (Large)
 Parks, David
 †Randolph, J. M.
 Ringdall, John

VERMILLION—Christie, T. A.
 †Matson, E. C.
 Pickett, Andrew
 Williams, George

WATERTOWN—†Brickell, Chas.
 †Brickell, L. E.
 †Rowe, A. L.
 Rowe, G. F.

YANKTON—Burgi, Frederick
 Burgi, Gottfried
 English, A. M.
 Goetz & Levi
 Goodwin & Willcox
 Sylliasen & Anderson
 †Valentine, W. B.

TENNESSEE.

BRISTOL—†Adams Bros. Co.
 †Crowell, Wm. H.
 †Gibson, Albert G.
 †Harris, Gabriel C.
 †Hicks, Nat'l
 †Huddle, Jefferson D.
 †McCrary, Jas. F.
 McCrary, Samuel
 †Owens, Jno. H.
 †Poore, Wm. C.
 †Shumaker, Wm. F.
 †Smith & Wilson
 †Wagner, Robert F.
 †Wetzel, Jno. L.

CHATTANOOGA—†Adams & Schneider (Large), 120 E 8th
 †Beecher & Brown Construction Co.
 Canfield, W. W., 803 Pine
 *Dewey, J. J. & Son
 Ethridge, Wm. B., 102 E 8th
 *Fisher & Brown, P. O. B., 246
 Franklin, H. G., 105 W 6th
 Heibeck, Jno., 407 Cedar
 Hitzfeld, L. A., 14 E 7th
 Lieker, Fred'k (Stone), Harrison Pike
 May, W. F. & Co., 109 Carter Avondale
 †Parks, H. D., 34 Elyria
 True & Co., 13 Market sq
 Troutt, John (Stone), 1090 Market
 Westcott, F. L. (Brick), 24 Read av

CLARKSVILLE—*Agate, Richard
 *Conroy, John
 Hawks, Andrew, South
 Jackson, Thomas, South
 Shay, James, Greenwood av

CLEVELAND—Bible, P. L.
 Conroy, John
 †Humphries, W. A.
 †Marshall, S. W.
 Parks, C.

COLUMBIA—Alford, Michael
 Alford, Roy
 *Simpson, Thomas (Brick)

COVINGTON—Fallin, Richard
 *Nicholson, W. D.

DYERSBURG—*Nichols, J. M. (Large)

FAYETTEVILLE—Brogan & Cummings
 Mayers, W. S.
 Peech, Lewis (Stone)
 Waggoner, J. L.

GALLATIN—Gallatin Planing Mill & Lumber Co.
 †Simpson & Sons

HARRIMAN—Hawks, W. V.
 †Tenn. Bldg. Co.

†Veazey & Richardson

HUMBOLDT—Brown, W. W.
 Campbell, J. E.
 †Christie, B. H.
 Halley, J. C.
 Harris, W. H.
 McAllister, Jno.
 McIlwain, Chas.
 McKnight, W. H. & Sons

JACKSON—Fleenor, R. L.
 †Heavner, U. R., & Co.
 *McCabe, J. G. & Co.
 *Owens & Williams
 †Parish Bros.
 Sherrod & West
 Smith Bros.
 †Vandebrook, P. L. & Son

KNOXVILLE—*Anderson, A. & Co. (Large)
 *Anderson, E. D.
 Brimer & England, 516 S Gay
 Callahan Const. Co., Empire bldg
 †Cooley & Sons, 402 Chamberlin
 Crumley, Homer J., 502 N George
 Dunn, J. M., 1424 Armstrong av
 Eddington & Griffiths, 609 Prince
 Ford, Bacon & Davis, 808 Gay
 †Galyon, L. A., 205 N Florida

Gartland, S. R.
 †Getaz, D. & Co. (Large), 315 E. 5th av
 Glass, H. E., 902 E. Church
 †Houghton, Francis M., 215 E Brookside av
 Miller, B. B., 1332 Corson
 Selden, A. K., 1416 Linden av
 Scott, J. Foster
 Worsham, Hugh F., 2540 Jefferson av
MEMPHIS—†Abele, E. A., 63 Jefferson
 Alexander, Jas., 1005 Bass av
 Anderson, Axel (Stone), 880 Bass av
 *Anderson & Richartz (Brick), Builders' Ex
 Apple, John W., 151 Robeson
 †Barth, Jos. (Large), 122 Exchange
 Blake & Co., 178 Vance
 Brown & Son, 861 Marley av
 Callahan, C. F., 967 Miss av
 Clausel, B. R., 370 2d
 Clinton Bros. & Co., Memphis Trust bldg
 Cole, J. E., 2095 Adams av
 Cosby, V. T., 17 Bradford
 Crane, F. G., 7 Hernando
 †Creson & Williamson, Bldrs Ex
 Cubbins, Thos. Sons Co. (Brick), 251 Vance
 Dingler, Jno., 130 Manassas
 Drumwright, Alex.
 Eberhart, Adolph, 28 Robeson
 Emmons, D., 161 Madison
 Flanders, L. H., 865 Madison av
 †Garrett, Jas. H., 223 Beal
 †Gettingby, A. W. (Large), 69 Avery
 Grant, Ed. M. (Brick), 24 5th
 *Greaber, John P. (Brick), 13 Brunswick av
 Greene & Johnson, 333 Johnson av
 †Haines & Emmons, 33 Madison
 *Heath, Robt. R. (Brick), Builders' Ex
 †Hinds, Wm. N., 1087 Elmwood av
 †Hodges & Chamberlin (Large), 55 E Court
 †Hunter & Frey, 100 Monroe
 Jenkins, Thos. (Stone), 146 Madison
 Johnson, B. F. (Brick), Builders' Ex
 *Johnson & Fleming, 228 Front
 *Jorgensen & Co. (Large), 204 Madison
 †Kaiser, Peter, 674 N 2d
 †Kay, Jno., 1277 Orleans (Exton)
 Keech, H. M., 415 Court
 †Kehse, P. F., 12 De Soto
 *Koehler, Paul (Brick), 196 Main
 Lanning, A. B., 526 S Cooper av
 Letson, J. J., 1378 Bass av
 †McMaster, Jas., 497 7th
 Maynard, J. T., 331 Main
 †Mohr, Geo., 19 Huling
 *Moselage, J. H. (Large), 625 Leath
 †Nicholson, T. C., 43 Gayoso
 †Pritchard Bros. (Large), 779 Lauderdale
 *Regan, Jerry (Brick), Fransioli Hotel
 Roach, M. J., Scimitar bldg
 Russell, Virgil C. (General), 15 Madison
 Seldon-Breck Const. Co., New So. Memphis
 *Silk & Chambers (Brick), Builders' Ex.
 Slater, Wm., 125 E 2d
 †Smith, J. L., Twigg av & La Rose
 †Snowden, H. P., 230 W Virginia av
 Styles, B. C., 46 Poplar
 †Terry, W. A., 698 Virginia av
 †Todd, Geo., 715 Walker av
 Trigg, C. R. (Brick), Builders' Ex
 †Voight, H. E., 430 Union
 Wagner, Clinton J. (Large), 664 Rayland av
 Walsh & Armstrong (Brick), 228 Beal
 Wooten, L. E. & Co., 70 Jefferson
 Wright, J. N., 55 4th
 †Wright, W. G., 62 Adams
 *Yarwood, Thos. (Brick & Stone), 48 Thomas
 †Young, Fred B. (Large), 1219 Miss av
MORRISTOWN—Colwell, Michael
 †East Tenn. Wood Working Co.
 Range, J. W.
MURFREESBORO—Crosslin & Wiggs
 Henry, W. C.
 Ivie, W. M.
 Parker, J. W.
NASHVILLE—Abernathy, G. W., 605 Joseph
 Adler, John K., 938 Addison av
 Akin, Samuel, 800 Joseph av
 Alexander, John, 1305 Hynes
 Allen, Solomon H., Dickerson pike, 3 miles
 Alley, Frank H., Highland bet Brown & Farrel
 Alley, Robert H., 600 S 12th
 Andrews, George A., 1201 N Spruce
 Archie, Ambrose, 705 Deluge
 Ashby, Felix G., 835 S Spruce
 Averitt, Peter J., 436 Chestnut
 Averitt, Saml H., S 5th & River
 Badacour, L., 1911 N Summer
 Baessler, J., 515 Joseph
 Bailey, J. W., 531 S Cherry
 Baker, T. M., 73 Wharf av
 Baker, Wm. F., 410 Sylvan av
 *Barden & Emmitt (Stone), 309 Summer

Bashaw, J. T., Sr., 827 Spruce
 Bassett, John, 425 Houston
 Bazell, J. R., 701 Line
 Bean, G. A., 918 Madison
 Bearden, A., 30 Lafayette
 Bearden, A. J., 905 Woodland
 Bearden, P. P., Decatur n Fain
 Beazley, Geo. W., 38 S 3d
 Beeles, G. W., 1007 N High
 Bennett, J., 811 Paris
 Bentley, J. E., 114 Lafayette
 Bentley, W., 925 N Front
 Bernal, Jno. K., Woodland n 24
 Binkley, F. M., 1710 N Vine
 Binkley, Wm. F., 1280 S College
 Birchett, E. M., 418 S Front
 Blackman, F. H., 1720 Paris
 Blount, M. B., 1007 Madison
 Blunkall, E. B., W Nashville
 Bond, J. W., 519 Spruce
 Bowden, W. D., 118 Spring
 Bowen, A. C., 622 Bascobel
 Bowen, George, 617 Ramsey
 Bowen, O. W., 704 S College
 Bowers, S. H., Printers' al n Union
 Bowers, W. D., Printers' al n Union
 Bowling, J. A., W Nashville
 Boxley, Milton, 11 N 4th
 Boyd & Morgan, 320 N Cherry
 Bradford, S. A., 517 Mulberry
 Bradley, J., 517 McTyeire av
 Bradshaw, J. W., Shelby av c Cumberland River
 Bradshaw, R. M., Amelia av n Poston
 Brandon, A. W., 708 Fatherland
 Brantley, W. S., N 1st c Main
 Breen, N., 31 Lindsley
 Bridge, John W., 131 S College
 Britt, J. R. (Plasterer), 714 Winter
 Brooks, J. T., h 1008 Scott
 Brown, C., 1708 N High
 Brown, Robert, 1708 N High
 Brown, S., 943 Jefferson
 Brown, T. A., 1020 Waller
 Brown, W. A., 1213 Brown
 Brusby, J. R., 809 N 2d
 Bryant, J., 619 Union
 Bryant, T., 1623 N High
 Bryant, W. A., 227 Shelby av
 Buie, D. R., 517 Joseph av
 Bunch, Oscar, 110 N Addison av
 Burchett, E. M., 35 Fillmore
 Burkholder, C. R., Maxwell House
 Burnett, G. M., 46 Maple
 Burnett, J. R., 923 Warren
 Burnett, L. T., 1513 Tilden
 Burton, F., 615 Joseph
 Busby, P. R., 1003 Lischey av
 *Bush, W. G. & Co. (Brick), 413 Union
 Byron, A. G., 107 Claiborne
 Byrd, M. (Plasterer), 1605 Poulk
 Carr, J. B., 128 Spring
 Cartwright, E., 616 N Vine
 Chaney, D., 1825 Park
 Chapman, G. B., 1505 Lockeland av
 Chilton, T. L., Tennessee n 13th, W Nashville
 Clark, J. I., 20 Claiborne
 Clark, M. P., 2200 Jefferson
 Cleary, J., 1218 N Summer
 Cobb, J. H., 210 N 5th
 Cookerly, W. E., 422 N Cherry
 Cooper, W. R., 74 S 5th
 Cooper & Hoover (Plasterers), 622 N Cherry
 Corbitt, Wm., 1613 Jefferson
 Cratty, C. W., 412 S Spruce
 Crenshaw, B. W., 208 Sycamore
 Davis, Wm. M., 67½ Bridge av
 Dean, J. F., 61 Maple
 †DeHart, I. N. & Son, 1300 Church
 Draughon, E., 330 Arrington
 Dukehart, Wm. T., 118 Broad
 †Dunn, W. F., 1641 Tilden
 Dunnivant, J. J., 228 Marks
 Dwyer, Wm., 1215 N College
 Eason, W. E., 510 S Spruce
 Etsler, J., 506 Fatherland
 †Evans, T. C. & Son, 414 Deaderick
 Finney, R. R., Caldwell av n 17th
 Fisher, J. R., Murfreesboro pike, 2 mi
 Fitzgerald, E. B., Waller n Olympic
 *Fizer Co. (Brick), 201 Cherry
 Flinn, J., Hillsboro pike, 2½ miles
 *Foster & Creighton (Stone), Berry blk
 *Fulcher & Dyas Brick Co. (Brick), 301 Church
 Graham, M. M., 418 Deaderick
 Green, W. R., 313 S Front
 Griffin, H. & Bro., Printers' al n Union
 Griffin, R. A. & Son, Mulberry n S High
 Harper, J. T., Tenn. & 14th, N. W.
 Hawthorne, A. E. & Co., 912-916 Broad

Haynie, Wm. I., 940 S Summer
 Hedrick, P. L. & Co., 619 Union
 Hill, E., 129 S College
 Holt, W. F., 209 Green
 Hopkins, E. R. V., 112 Russell
 Horvell, J. L., 129 S College
 Hunt, B. G., 116 Lafayette
 Hutchinson, J. H., 224 Treutlan
 Jackson, L. A., 315 Hancock
 Jackson, W. W., 315 Hancock
 Jenkins, J. W., 128 N Second
 Jones, G. L., Watkins c Pearl
 Kincaid, G. W., Mansker n Cumberland River
 Kinkead, G., 209 S Market
 Lawrence, E. J., 218 McCreary
 Lawrence, L. P., Cumberland al
 Lawrence, W. T., Cumberland al
 Lesuer, J. E., 907 Fatherland
 *Le Sueur, W. D. & C. H. (Brick & Plasterers), Gordon st
 Lightman, J., Dickerson pike, 3 miles
 Lillie, C. S., 407 Sylvan
 Litten, E., 454 N Cherry
 Lynch, A., 506 Joseph av
 McAlister, J. H., Sr. (Brick), Granny White Pike
 McCollam, R. B., 1904 Hayes
 McConnell, F. P., 1717 Tilden
 McEady & Mason, 67½ Bridge av
 McGinness & Co., Fatherland
 McPherson, C., 701 Line
 Martin, P., 515 Sycamore
 Miles, W. G., 165 Fain
 Miller, S., 626 Fatherland
 Mitchell, J. B., 322 Arrington
 Mitchell, N. (Brick), 84 Fain
 Moody & Vaughan, 223 Maxwell al
 Moore, C. G., 1223 Pine
 Moore, G. & Sons (Large), 527 S Spruce
 Morris, J. M., 292 Fillmore
 Murron, R., 1315 Grundy
 Nashville Building Co.
 Neeld, R. A., 18 S 4th
 Nestor, Jas. (Stone), 515 Stevenson
 Parker, J. T., 1005 N Market
 Parmer, H. E., 418½ Deaderick
 Patrick, J. W., 500 Meridian
 Pease, T. J., 813 Central av
 Pold, F. H., 1614 N High
 Quinn, J. W., 1012 Cheatham
 Regan, J. S. & Son, Maxwell al
 Rives, C. W., 319 N Summer
 Rives, N. G., 319 N Summer
 Robertson Bros., 901 Cedar
 Robertson, Jas. F., 1208 Fatherland
 Robertson, T. J., 1415 Jefferson
 Robison, J. W., Kentucky av nr 10th, W N
 Rogers, S., 911 Gleaves
 Ruffin, J. W., 701 Joseph av
 †Sanders, J. S. & Sons, 69 Bridge av
 Scott, J. W., 1282 S Cherry
 *Sheffield, W. B. (Brick), 829 Stevenson
 Sinnot & Dyer, 421 Jackson bldg
 Smith, C. W., 441 N Cherry
 Smith, R., 61 Maury
 Stackman, W., 1915 Line
 Strong, H. E., Kentucky n 9th, W N
 Stubblefield, J. R., 418½ Deaderick
 Sullivan, J. E., 214 Treutlan
 Tanksley, Henry W. (Plasterer), 723 S Cherry
 Tanksley, L. S. (Plasterer), 913 S Spruce
 Tate, Z. C., 128 Fain
 Taylor, J., 157 N Summer
 Taylor, R., 141 N Cherry
 *Thompson, Fredk. (Stone), 231 Main
 Thurmond, C. M., Butler av n Harding pike
 Tolar, T. J., 512 Joseph
 *Tolmie, A. & Co. (Stone), 1800 Broad
 Trotter, J. K., Blakemore av n Hillsboro pike
 Tuckey, J. P., 300 Fillmore
 Tuley, J. M., 215 Marks
 Turbeville, R. E., 1207 Magnolia
 Vaughn, J. A., 1803 McGavock
 Vaughn, S. M. & Bro.
 Vester, J. J., White's Creek pike, 2 miles
 Walling, J. A., 222 McLemore
 Walker, Peter, 1622 Church
 Walpole, E., 712 Stevenson
 Warden, P. M., 306 Marks
 Watterson, T., Shelby av & Cumberland River
 Weaver, W. T., 12 Elmwood
 Webb, J. A., 328 Arrington
 Wene, J. R., 1211 Phillips
 Willard, T., Cumberland al n N Spruce
 Williams, J. R., 1628 N 2d
 Word, W. P., Callendar al nr W Church
 Yeaman, J. H., 123 N Cherry
SOUTH PITTSBURG—Dunwoody, S. A.
 Modern Building Material & Cons. Co.
 Patton, B. F. & Co.
 Patton, R. A. & Co.
 Payne, R. M.

TEXAS.

ABILENE—Anderson, Jacob
Brydson, P. J., 1605 E 1st
*Evans & Rowlett
Kearn, J. S.
Laster, Frank
Lathrop, H. T.
McCarthy, Daniel (Stone)
Miller, R. W.
*Pearce, R. C.
Reese, J. B. (Brick)
Rowlett, William (Brick)
*Russell, Thomas (Brick)
Smith, F. T.
Steele, J. M.
Tate & Pierce
Totten, Milo
Tripp, W. H.
Wilkinson, Theodore

AUSTIN—*Belger, Jas. (Brick & Stone), 1005 B 12th
*Brillhart, G. W. (Brick, etc.)
Brydson, R. G., 607 E 1st
†Eyes, W. G., 103 E 7th
†Flegel, Geo., 411 Lavaca
*Fischer, Francis (Brick & Stone), 1008 West av
*Fischer & Lambie (Large)
†Flume, R. A., 118 Congress
†Henkes, Geo., 107 W 7th
*Keye, Wm. M. (Brick & Stone), 1304 Lavaca
†Lambie, R. C., 110 W 9th
Ledbetter, C. P., 402 San Antonio
McDonald, J. P., 310 W 5th
*McDonald, Roy (Brick & Stone), Austin Natl. Bk. bldg
*Mahoney, Dennis (Brick & Stone), 1st Natl. Bk. bldg
Moore, C. W., 104 E 10th
Page, C. H., Sr. (Brick), 1608 Sollm
Schoenert, Wm., 911 Attoynac
†Shurr, C. A., 402 E 11th
Slaughter, D. S., 1205 Trinity
*Watson, Jas. (Brick & Stone), Westlin, bet 12th & 13th
*Wattinge, Jacob (Brick & Stone), 1005 Red

BEAUMONT—Higgins Mfg. Co. (Brick) River
BEEVILLE—Druit, Almond B. (Brick)
Lux, George W.

BELTON—*Beamer, Wm. F.
†Birdwell, T. & Son
†Clark & Scott

BONHAM—*Bolten, S. W. (Brick)
*Charles, Samuel (Brick)
†Crittenden, J. N.
†Galbraith, D. S.
Gale Bros.
Gilbert, R. B.
†Goodman & Peters
Holt, W. A.
*Johnson, William (Brick)
Shannon, James
†Spangler, Peters & Co.
Sparger, John O.
Sparger, H. & Co.
Stephens, Rush
Stephens & Peters

BRENHAM—Allen, Frank T.
†Cordray, H. A.
Hartfield, Robt.
Wiebush, F. R.

BROWNSVILLE—†Brooks, S. W.
†Hanson, Martin, Jr.
Lynd, John

BROWNWOOD—Chaillett, John
†Kriskie, Joseph & Son

BRYAN—Davenport, Robt.
Deaton, Geo.
Deaton, Wm. A.
*Jenkins & Robb
Stacey, Henry P.
Wellington, Robt.

CALVERT—Davis, A. G.
Engdohl, John
Hardy, H. P.
Johnson, H. P.
Kirsch, W. H.
Knight, John R.
Lee, Harrison
Martin, Frank
Martin, Michael
*Oscar & Ivey
Walton, Geo.

CAMERON—*Arnold & Crawford
Carothers, L. W.
Davis, William
Frierson, W. H.
†Westmoreland Bros.

CHILDRESS—Killen, Thos. B.
Williams, B. T.

CLARKSVILLE—†Higgins Bros.
†Smith & Spike

COLORADO—Coe, A. J.
Fowler, T. B.
Hyde, William
Sparks, Chas.
Williams, C. H.
Wilson, G. Y.

COMANCHE—Cook, J. P.
Tannehill, J. A.

CORPUS CHRISTI—Atkinson, F.
Powell, George O.
Randall, John
†Reid & Sutherland

CORSICANA—†Clopton & Bragg
†Hall, R. B.
†Walling, Daniel M.
†Whitesell, J. E. & Co.

CROCKETT—†Cassidy & Norris
†Harris & Taylor
Peterson, Oscar

CUERO—Cook, Frank
†Franke, S. & Co.
Hamilton, Jos.
Moore, Andrew
Wieland, Henry

DALLAS—†Baxter, Geo. W., Cockrell bldg
†Beattie, John, 107 Fields
†Beggs, Thos., 255 Main
*Beilharz, Theo. M., N Hawkins & Pacific av
Boyd & Dyer, 351 Main
†Boyer, J. E., 393 N Harwood
Carl, W. A., 202 Trinidad
†Cook, J. D., 173 Matt
†Cottman, W. F., 289 Main
†Crisman & Nesbit, 494 Live Oak
†De Frese & Padgett, Builders' Ex
Dodson, Geo. W., Plateau bldg
†Emmins, Harry J., 698 McKinney av
†Faber, M. A., 285 Leonard
*Figh, Geo. M. (Brick), 427 N Harwood
†Franklin Fireproofing Co., Wilson bldg
†Grant, John M., 275 Simpson
†Gray, S. D., 550 S Lamar
†Horton & Massey, 115 Matt
†Innis & Hill, 343 Main
†Jackson & Wolff, 405 Main
†Knight & Kenyon, 257 Crutcher
Large & Tydings, 403 Commerce
*Lindsay, D. H., 159 Bellevue
McCord, D. C., 759 Hall
†Mantooth, B. F., Birmingham av, 1 E of Vine
†Mayben, H. H., 373 Main
†Miller & Bishop, 145 Reiger av
†Morgan & Gray, 287 Main
†Patti, Huffstetler & Johnston (Large)
Paul, John, 158½ N Akark
†Peterman, M. H., Majestic Hotel
*Reach, Chas. H. (Brick), 480 Corinth
†Prine, John A., 210 Bryan
†Self, H. P. & Bro., 259 Main
†Sink, J. Wesley, 738 Swiss av
†Slaughter, John W., 285 Main
†Sonnesfeld, Geo., 561 Browder
†Watson, Alex., 285 Main
†Wright, L. R., 297 Main

DECATUR—Johnson, Ed.

DEL RIO—Graham, H. B.

DENISON—Cuff, Jas. F. (Stone)
Fagan, Dennis (Stone)
†Fike, John W.
†Freeman, W. C.
†Hancock, T. D.
†Hanna, H.
†Hill, John W.
†Hurt, John T.
†Johnson Bros.
†Kadana, George
†Kennedy, W. T.
†Kibler, A. J.
Kilgore, S. C. (Brick)
†Lane & Hammack
†Lyer, Michael
Morse, E. W.
†Murphy, W. D.
†Niemeyer, F. G.
†Peel, J. W.
†Thorn, Mich'l
Tibbetts, F. W. (Brick & Stone)
†Walker, John A.

DENTON—Cobb, R.
Craft, F.
Lipse, J.
Lovell, Thos.
Stroud, John
Stroud, T.

DUBLIN—Bayze, T.
Holland, D.
Kennedy, T. P.
Price, Z. T.
Rader, F. P.
Warner & Leveritt

EAGLE PASS—†Fox, Frank

EL PASO—†Brown & Chenoweth
†Chart & Morrison
†El Paso Building Co.
†Hewitt & Jones
†Holland, T. J.
Kerr, Thos. S.
Mackenzie, C. W.
†Peterson, C. A.
Powers, Frank
†Rattenbury & Davis
†Rheinheimer, William
*Sorrenson & Morgan
†Stewart & Crawford
†Turbeville & Rodgers

FORT WORTH—†Bardon, Jno.
†Clark & Gustave
†Dashiel, J. F.
Davies, W. A.
Evans, Morgan (Brick & Stone)
Gillmartin, W. H.
†Heck & Ulander
Henderson, Jas. G. (Stone)
†Huff, Thos. F.
Hughes, David (Stone)
†Jones, O. D.
†Lusher & Rockett
†McQuerry Bros. & Abbott
†Marshall, Jno. A.
Maurice, T. L. (Brick)
Miller, W. R. (Stone)
Nichols, L. D. (Brick & Stone)
†Platt & Platt
Rail, W. L. (Brick & Stone)
Rexroad, Jno. A. (Brick)
†Thompson & Thompson
United States Const. Co.
Wattam, Jos. R. (Brick)
†Wray, Wm. P.

GAINESVILLE—Rubish, F. & Son

GALVESTON—†Bautsch, Gus, 1823 Av K
†Bautsch, Henry & Son, 2011 Av K
Bautsch, Julius H., 1818 M½
Bleike, F. P., 3818 Broadway
Bottomley, Arthur H., 3014 P
Bowden & Worth, 514 9th
†Butler, J. H. & Son, 3928 Av Q
†Callan, Peter J., 3114 Market
Carter, Harry E., 1212 12th
Casey, C. J. (Plasterer), 1627 Ave N 1-2
Christie, Geo. A., 801 32d
Cousin Bros., 819 Post Office
Cowan, T. F., 3426 L st
†Devlin, Harry (Large), 30th & Av H
Drewa, Edw. F. (Plasterer), 1703 27th
Eckenfels, Henry, 1813 Av K
Filter, Thos., 815 Strand
Garner, Niles F., 1601 Church
†Garnett, Robert B. & Co., 2221 Church
Gedney, Chas., 3530 O
Goodfellow, Chas., 1013 35th
Hagerman, W. F., M½ & 35th
Harvey, Stanhope G., 2717 O
Heuss, Charles, 3811 Winne
Higgins, Hy., 1011 35th
Jannasch, John, 3411 Av M
Johnson, Algot, 3614 O
†Jones, Frank (Large), 2806 O½
Jones, J. Morrison, 1524 Church
Kissinger, James H., 1724 Av H
Koch, A. Frank, 1111 16th
Kreuzberger, Fredk., 1525 K
Lawes, Wm., 614 22d
†Lawrence Bros., 1827 B'way
Lindsay, Orange F., 1709 H
*Lipscomb, John B. (Brick), 2602 I
Lloyd, Thos., 1922 Winnie
Lohec, Jos. C., 813 13th
Lucas, Alfred, 616 B'way
Lucas, Thomas (Brick), 1409 B'way
Lucas & Bartlett, 3620 O
Macgill, Daniel K., 2111 Church
†McHenry, Thos. (Large), 2328 Av O
Malkewitz, Martin, 314 17th
McLeod, Geo. D., 2022 Mechanic
Marr, W. S., 2420 Winnie
Maurer, John (Brick), 3020 P
Maurer, Michael (Brick), 3214 Av O
Nelson, Chas. A., 1802 O½
Nichols, Chas. G., 105 Levy bldg
†Neuwiller, C. F., 18th & Market
Palliser, Robert (Brick), 2218 Mechanic
†Pautsch, Wm., 1401 19th
Phipps, J. H. (Brick), 2212 Winnie
Pollard, Jno. B., 3302 Av P
†Pope, John W., 2219 Winnie
Prindville, Jas. J. (Plasterer), 1127 Av M
Raycraft & Wyland, 414 14th
Ricke, Jos., 1413 37th
†Ricke, Martin, 1723 Av N
Ringh, Edw. D., 4208 B'way
Robert, George, 4114 Q
Roberts & Keays, 903 Winnie
Rodrigues, Frank, 2710 Q½

Rubbright, Theo. A., 1015 38th
 Ruhle, Frank, 1412 Av N
 Ryals, Chas. L., 3514 O
 Schelewa & Sons, 3508 S
 Suderman, Chas. & Co. (General), 306 21st
 Tobie, Ralph, 2528 H
 †Toothaker, J. E., 510 Tremont
 †Treacchar, Theo., 1104 32d
 Valk, Matthias F., 1327 B'way
 †Vallat, Frank, 2114 Post Office
 Wittig, C. C., 2904 L
 Wolfer, C. G., 2115 Av M½
 †Wolfer, C. L., 2127 Av M ½
 Wood, Minard, 717 Tremont

GEORGETOWN—Chapman, S. P.
 Harret & Belford
 McGlamery, William
 Martin, J. W.

GONZALES—Coleman, A. B.
 Ward, George

GREENVILLE—Blades & Shepard

PEARNE—Morris, E. J.
 Mosley, J. L.
 Williams, G. M. & Co.

HEMPSTEAD—Wood, D. A.
 Wood, R. T.

HILLSBORO—Hatcher & Harpold
 Hughes Bros.
 Robinson, J. S.

HONEY GROVE—Baird, T. R.
 Boone Bros.
 Kirk, R. H.
 Myers, B. H.
 Parker, M. S.
 Ullrich & Fein

HOUSTON—Anderson, Christian (Brick), 2212
 †Antill, Jas. P. (Brick), 209 Main Kane
 †Bang, J. H., 1 N of Market, 1 E of Gregg
 Baring, A. St. C., 3602 Milam
 Barnett, Michael J., 2611 Rush
 †Beene, S. J., 1211 Capitol av
 *Bergeron, F. J. (Brick), 1904 Kane
 *Bergeron, W. A. (Brick), 906 Morris
 Bering, Chas. H., 506 Milan
 †Booth, Jas. A., 1506 Caroline
 †Brashear & Jay, 1602 Shearn
 *Brown, Jas. M. (Brick & Stone), 2007 Jef-
 Carlin, Geo. E., 14 Main ferson
 Cahill, Jas., 1011 Congress av
 †Cornett, J. B., 2008 Semmes
 †Coulter, Stephen A., 224 Tuam av
 Davidson, H. A. (Brick), 1903 Prairie av
 †Dixon, G. B., Brunner
 †Douthit, S. E., 1002 Main
 †Drake, R. L., 525 Cortlandt, Ho. hts
 *Estes, George F., 913 Elysian
 Fletcher, J. H. (Brick), 1202 Bagby
 †Frels, Edward G., 2207 Hardy
 †Florance, W. B., 1918 Hutchins
 †Goldapp & Reynolds, 407 Capitol av
 *Gregory, Jas. L. (Brick), 1107 Paschall
 *Griffiths, W. H. & Son (Brick), 1818 Hardy
 Hahn, C. A., 1308 Dart
 Hall & Son, 3718 Main
 †Hamilton, H. M., 14 Main
 Hamrick, G. T. & Co., 510 Fannin
 Hansen, Ernest, Houston hts
 Harlow, E. D. (Brick), San Felipe rd
 *Heffernan & Son, 1017 Elder
 †Heidelberg, Frank, 1417 Pease av
 †Holtkamp, H. H. & Son, 1717 St. Emanuel
 Jackson, Joseph, 1704 Calhoun av
 Jageman, H. N., San Felipe rd
 *Johnson, W. G. C. (Brick), 1609 Pease av
 †Jones, Lincoln R., 418 San Felipe rd
 †Kuhns, C. B., 835 Rutland, Houston hts
 †Lammers & Holms, 1803 Chestnut
 †Layne & Bowler, 605 Washington
 Leach, D. W., 306 N E Live Oak
 Lewis, C. P., Houston hts
 †Litzmann, Paul, 108½ Travis
 †Logan, Andes P., 1602 Arnold
 *Lucas & Moodie (Brick & Stone), 803 Gray
 †McLelland, Wm. C., Southwest bldg
 †Marett, Fred. J., 1012 Congress av
 †Maxwell, H. J., 3411 Lyons av
 †Meredith, John T., 617 Hobson
 Metcalf, A. L., 210 Westmoreland av
 †Meyer, Fred'k C., 3418 Texas av
 Morin, Jno. R., 209 Main
 *Naquin, H. C., Genesee c O'Neil
 †Newbanks Bros., 20th c Yale, Houston hts
 †Parker Construction Co., Masonic Temple
 *Partin, Jos. C. (Brick), 1003 Waverly
 Pearl, I. D., 2405 Leeland av
 †Penington, A., 43 N E Buffalo
 †Pittman, Dallas D., Brunner
 †Putnam, Frank L., 219 Tuam av
 †Raper, A. M., 4919 Centre
 †Reamers, C. L., 2816 Caroline

†Richardson, H., 1017 Texas av
 †Richmond & Co., 1526 Schwartz
 †Roeke & Smith, 2112 Lubbock
 †Shapley & Son, 1710 Bell av
 Sheffield, Wm., 2303 Elysian
 Shoop, E. S., 909 Rusk av
 †Smith, C. K., 1011 Crockett
 Smith, Chas. H., 1908 Franklin
 *Stadtler & Hayes (Brick), 2018 Chenevert
 Stadtler, John, 1113 Chenevert
 †Steinhagen, Jno., 2017 La Branch
 †Suderman, Dolson & Co., 215½ Main
 Suttles, Jas. H., 1002 Main
 †Weaver Bros. & McClelland, 2901 Odin av
 †Wenzel, C. C., 610 Travis
 *Wilkinson, Jno. H. (Brick), 116 Preston av
 †Willis, Benj. A., 1413 Oak
 *Yorty, Henry H., 714 Milam

HUNTSVILLE—Abernathy, Jas.
 Abernathy, Jas., Jr.

JEFFERSON—Shanahan, T.
 Tribble, L. O.

KAUFMAN—Haupt, Ed.
 Myers, W. A.
 Woodward, W. S.

LAMPASAS—Frazier & McDougall
 Hickman, P.
 Hutchings, B. A.
 Looney, T. J.
 †Nickols & Mallady
 †Porter, Edw.
 †Webber, W. H.

LAREDO—Einstetter & Johnson
 Elstetter, A. J.
 Johnson, A. P.
 Sparbert, H.
 Thaison, Andrew
 Tollett, C. J.

LLANO—Landrum, R. R.
 Wunch & Walker

LOCKHART—Hodges, T. S.
 Neeb, L. H.
 Vogel, H. T.
 Vogel, W. S.

LONGVIEW—La Duke, M.
 Pridgeon, J. P.

MARLIN—Barry, M. H.
 Barry, W. A.
 Branson, A. L.
 Humphrey, H. O.
 Humphrey, John
 McComb, Wm.
 Tipps, Joel

MARSHALL—Bennett & Hodgkins
 Forshund, Wm.

MEXIA—Denning, Jesse
 Denning, Jos.
 Denning, S. P. & J. F.
 Denning, W. J.
 Gafford, H. E.

MINERAL WELLS—Christian, J. M.
 Ford, J. G.

NAVASOTA—Abernathy, T.
 Lord & Youens
 McFarlane, A.
 Meyarlambers, W. H.
 Stacey, Willis
 Stacey, W. M.
 Steinhagen, Carl
 Watkins, E.
 West, Sumpter
 Youens & Lord

NEW BRAUNFELS—Hoffmann, Alex.
 Meyer, Otto

ORANGE—Austin, D. W.
 Chandler, J. M.
 Naylor, N. J.
 Robinson, F. W.
 Stark, John T.
 Street, W. D.

PALESTINE—McGowen, D. B.

PARIS—†Carlton, C. R., Paris boul
 †Caviness, C. G., r Maple av
 †Greiner, Albert G.
 *Knight, Robert C. (Brick)
 *Laird, Thos. A. (Brick)
 Stockey, J. L.

ROCKDALE—Chambers, M. E.
 Harris, H. S.
 Smith, E. E.

SAN ANGELO—Chance, Joseph
 Fritz, A. J.
 Staggs, A. M.

SAN ANTONIO—†Baermann, B., 1006 N Flores
 †Baermann, Fred. M., 308 Sherman
 Balcom, O. A., 129 Calif
 Boelhauwe, Chas. G., Burnet & N Walnut
 †Boettler, L. P., 801 Commerce
 Boyd, H. M., 217 Stark
 Clemens, Hy., 410 Lavaca
 Cresswell, John, 1608 N Flores

Cross, George F., 211 Cadwalader
 †Crider, John T., 225 San Pedro av
 †Davis, Eugene, 314 Dallas
 †Dielman, John C., 306 E Commerce
 Emrle, J. R., 129 Agarita av
 †Engelhardt, Theo., 509 N East
 Festermaker, Wm.
 *Figh, W. M., 1132 E Crockett
 Fincham, A. T., 806 av C
 Findlay Mfg. Bldg & Cont. Co.
 †Flaig, Conrad, 406 Cumorgo
 Fussel, A., 2001 Virginia
 Gafford, Hy. H., 314 N Olive
 Gallagher, Edw., Jr., 333 N Cherry
 Garrett, Jno. D.
 Gleason, M. B. (Brick), 122 Dawson
 †Goodhoe, W. P., 317 Grand av
 Hagy, D. C., 1124 Grayson
 Hagy, L. W., 1906 Buena Vista
 Hagy, W. M., 742 Penn av
 Helmsoth, C. H.
 Klock, B. Z., 308 W Laurel
 Lahroe, E. L., 117 S Center
 Langworthy, R. O.
 Lehr, David, Sr., 123 Alazan
 Lindau, Otto, 201 Cactus
 Meyer, Fredk, 226 Blum
 Neumann, Raimund, 519 E Crockett
 †Pauly, Hy., 102 Goliad, Peach
 Schoenfeld, Hy., 2006 S Pressa
 †Schumm, Charles, 226 N Hackberry
 †Shields, P. T., 1712 N Olive
 Skirving, Jas. S., 504 Rivas
 Wiedenfeld, Emil, 223 Nolan

SAN MARCOS—Breeding & Northcraft
 Sevey, T.
 Simz & Donaldson
 Whaley, J. W.
 Wilson, M.

SEQUIN—Goodman, Jno. W.
 Thomas, W. C.

SHERMAN—†Baker, Sylvester
 †Elliott, S. B.
 Johnston, John (Brick)
 Saul, August
 †Thiessen, H. J. J.

SMITHVILLE—†Kite, B. M.

SULPHUR SPRINGS—Bell, W. W.
 Hodges, J. W.
 Sherman, John

TAYLOR—Evans, S. F. & Co.
 Goslin, William
 Hall, John
 Hallam, Robert
 Haslam, Frank
 McCormal, George
 Simmons, Fred.

TEMPLE—Benjamin & Lee
 Davis, James
 Gibson Bros.

TERRELL—Alvis, Jeff.
 Anderson, Allen
 Brewer Bros.
 Gage, Robert
 Graves, H. C.
 Hopkins, Frank
 Neilson, J. W.
 Sims & Hixson

TYLER—Baker, M. P.
 Ford, J. F.
 Ford, W. G.
 Lasseter, Sol.
 Porter & Roberts
 Portis, John

VICTORIA—Anderegg, Henry
 Applegate, H. D.
 †Bailey Mills Co.
 Cox, O. R.
 Harris, G.
 Holinere, George
 Randolph, J. R. (Brick)
 Seatan, J.
 Scheroder, H.

WACO—Baade, Jno., 410 N 5th
 Baker, J. B., N 5th & Garland av
 Barton, T. B., 203 S 7th
 Brown, W. A., 1609 Webster
 Carper, W. A., 1129 Webster
 Edgar, J. R., 515 N 5th
 Fullwood & Bushnell, c Flint & S 10th
 Harris, J. N.
 Harris, J. N. & Son, Dallas N of T. & T.
 Harris, P. A., 515 S 10th O. Ry
 Harrison, J. K., Dallas rd, N of city limits
 Harrison, J. S., 324 McKean E Waco
 Hewitt, G. W., 511 N 10th
 Hooks & Son, 510 Franklin
 Jackson, W. E., c Austin & 20th
 Ligon Bros., 603 N 11th
 Mann Bros. & Son
 Marlander, C., 614 Webster

Oekander, A., N 3d nr Jefferson
Tennant, John, Mary nr S 16th
Thompson, Q. R., e Speight & S 21st
Ulander, J. B. & Co., e Webster & S 7th
Usher, Geo. S., 524 Rusk, E Waco
Vivrett, J. T., Webster nr 6th
Zeigler, F. B., 1015 S 8th

WAXAHACHIE—*Mahoney, H. D.
WEATHERFORD—Chilleuts, W. J.

Davis, J. S.
Davis & McComb
Ellan, William
Huvelle, Hector
Jackley, R. L.
Jones, David
Kebelman, Robert
McCall, James
Marks, T. A.
O'Gwin, J. W.
Solon, Michael
Tooce, John
Vaughn, T. H.

WICHITA FALLS—Libbey & Stipe
Moore, W. L.

UTAH.

LOGAN—Anderson & Sons Co.

*Hansen, P. O.
Johnson, Lawrence
Lind, Aug.
Neilson, E. E.
†Worley & Nelson

NEPHI—(Adams, John Sons & Co.

OGDEN—(Bauscher, J. F., 2539 Adams av

Bertram & Lightfoot, 280 26th
Bueher, L. J., 2587 Grant av
*Calvert, J. A. & Co. (Brick)
Donovan, D. J., 415 23d
Gilmartin, T. J., 776 24th
†Gillis, Mathias, 2160 Washington av
*Greeuwel, G. H. (Brick & Stone
Isakson & Kihlstrom, 2218 Washington av
Lund, O. E., 330 Adams av
*Lund, F. A., 678 21st
Miller, A. J., 2122 Adams av
†Newton, J. T., 889 27th
O'Neill, J. P., 423 25th
Reeder, W. H., 824 22d
Richter, A. A., 421 23d
Stone, D. W., 424 30th
†Taylor, J. M. D., 1051 20th
Tracy, D. S., 241 21st

PAYSON—Hall, J. T.

PLEASANT GROVE—Ward, E. J. & Sons
PROVO CITY—Alexander, W. D.

†Allmau, Thos. M.
†Belmont, S. H.
Goodmau & Tucker
Meldrum, Wm. B., M & 13th
Monseu, Knut
Olsen, O. H., N 1st S of 5th
Perry, Edgar

SALT LAKE CITY—Allen, W. L. N., 24 I

†Anderson, David P., 1155 E 11th, S
*Ashton Bros. (Stone), 464 W 1st S
†Asper, Noall & Co., 157 W N Temple
Best, Ezra, West Temple
Boardman, W. L., 4 City av
Brain, C. J., 73 S Main
†Brown, Samuel J., 546 N 3d, w
†Button, Herbert C., 164 W 3d, s
Chamherlain, W. H., 534 W 2d, s
†Clark, Edward W., 240 W 6th, n
†Commercial Mill & Bldg. Co., 141 S 3d, w
*Craig & Atkinson (Brick), 158 N 3d, S
*Curley, Geo. (Stone), 345 N 1st N
†Davisson, Ira H., 876 4th
Fagenberg, Adolph, 99 Rio Grande
†Folsom, Hinman D., 22 S 1st, w
*Froisett, J. M. (Brick), 68 E 2d, S
Gaby, Edw., 124 W 2d, s
Gaby, Will D., 152 W 5th, s
Gleason, J. C., 663 9th, e
Goodsell, Jules D., 216 W 5th, s
†Griffin, Daniel S., 214 Atlas blk
Grimm, Martin (Brick), 1304 S 11th, E
†Grunfor, Andrew, 726 W 6th, n
†Hoffman, Peter G., 265 I
†Hyrup, Andrew, 781 1st
Kunkel, Frank, 69 S 4th, W
McDonald, Alexander, 121 B
†McLachlan, Wm., 462 S W Temple
†Millies, H. S., 114 E 2d, s
Morrow, Geo., 512 Constitution bldg
Mortensen, Henry, 736 E 12th, s
Nink, Andrew, 167 10th, E
*Parry, David R., 606 W 1st, S
Petersen, J. P., 149 W S Temple
†Pickering, Willard R., 687 4th
Potter, Wm. S., 534 E 6th, s

†Redfield, Homer E. C., 1218 Milton av
Rhodes, Geo. F., 1402 W 7th, s
†Robinson, Thos. N., 79 Market
†Salt Lake Bldg. & Mfg. Co., 40 N 2d, w
Sandberg, J. C., 118 W S Temple
Selsor, W. W., 255 S Main
†Shaw, L. C., 356 S 1st, w
Sherrell, Samuel C., 1026 9th, e
†Staats, C. B., 238 S 10th, e
†Teuth Ward Lumber & Bldg. Ass'n, 758 E 4th, s
Tlms, Wm. J. A., 807 3d
†Tobiason, Thco., 443 3d, e
Tuddenham, W. J., 663 2d
†Vau Houten, Peter, 32 H
Wallace, Howes C., 535 Chester av
†Warren Bros., 206 S State
Watrons, Wm., 375 S State
Wetzel, Edwin M., Jr., 476 W 6th, s
Woodle, C. M., 29 S W Temple
†Worthen, A. H., 234 I
SPANISH FORK—Fuech, J. D.

VERMONT.

BARRE—Bradford, W. F.

Bugbee, C. L.
Cheever, Lewis
BELLOW FALLS—Fassett, H. H.
BENNINGTON—Dunham, Walt. E.
Silk, Jas. S.

BRANDON—†Rogers, Thos. W.

BRATTLEBORO—Bailey, Martin A.

Dix, G. A.

†Holden & Martin

BRISTOL—Brown, Henry

Daniels, A. P.

Guldon, Benedict

Palmer, E. B.

Rogers, C. W.

BURLINGTON—†Austin, A. L., 211 Main

†Austin, Z. T., 244 College

†Blondin, Wm., 228 Main

Callahan, Edw

Cassarry, Andrew, 109 North av

†Cayea, Wm., 88 Rose

†Clapp, McLaughlin & Co., 45 Mechanic

†Dornsife, J. W. (Churches, Factories & Heavy Structures)

Hathaway, A. J., North av

†Dennis, Jno. E., City Market bldg

†Kelley, John W., 40 N Champlain

Lee, Frank E., 89 Hyde

Levee, Duffee

Lowell, A. P., 49 Mansfield av

†Mason & Co. (Large), 144 College

†Morgan, Jos. S., Western n Henry

Moore, Eugene F.

†Mills, Byron M., 344 North

Potwin, Louis, Walnut c Spring

Ritchie, Chas., 18 Mechanic

Shortsleeves, Chas. A., 44 School

†Spear Bros., S Battery c Bank

†Watson, David M., 61 Front

†Whitney, Chas., 10 Townsend pl

FAIR HAVEN—Gague, Jos.

Rolin, Eugene

Wood, Nelson

HARDWICK—Angell, Timothy E.

Shepard, Chas. O.

Trow, Geo. C.

ISLAND POND—†Ladd, M. B.

LUDLOW—Chapman, Geo. H.

Lawrence, Harry S.

MONTPELIER—Alexander, A. J.

Jackson, W. E.

Perkins, Jas.

NEWPORT—Davison, J. C.

Keith, S.

Mitchell, Frank

Norris, Charles A.

Sherman & Brady

Stark, R.

Story, G. D. & Co.

NORTHFIELD—Newton, F. S.

Silshury, Richard

RANDOLPH—Butterfield, Frank (Stone)

Chadwick Bros.

Gourley, Wm.

Hoyt, George

Lewis, B. F.

Sault, Peter

Williams, Ira

RUTLAND—Adams, Arthur L.

Arnold, L. Scott, 34 High

Baird, Emery, 112 N Main

†Coates, M. A., 55 Pierpont av

†Conniff, Frank, 25 Evergreen av

Dexter, B., 11 Court sq

†Ellis, Geo., 105 Park av

†Germain, John F., 13 Library av

Harrison, Jno. J., Engrem av

†Heath, A., 61 Pine

†Houston, Byron K., 53 Chestnut av
†Lyman, Milo, 60 Chestnut av
Lyman, Wm. H., 27 Crescent
†Noyes, H. F., 127 State
†Page, Chas. E., 141 N Main
Sargent, Wm. H., 28 S Main
Stafford, Ira E.
*Stickney, Jos. H., 108 N Main
Woods, Jno. D. & Wm. W., 35 Cleveland av
Young, Wm. Burt, 17 Engrem av

ST. ALBANS—Brean, Joseph

Coburn, F. A.

†Ledoux, J. B.

Rocheford & Chagnon

Sturges, H. J.

ST. JOHNSBURY—†Bragg & Morris

Foye, James M.

SPRINGFIELD—†Burpee, Warren L.

Morse, Jos. E.

Morse, Wm. P.

WATERBURY—Deal, William

Hazelton, Walter

WEST RUTLAND—Gobar, M.

Hazelton, Jason

Hudson, Norman

North, A. E.

Potter, W. A.

WINDSOR—Ayer, Harvey

Bryant, S.

Covell, Charles A.

Floyd, Daniel

Morrill, H. E.

Waite, Fred

WOODSTOCK—Gobie, Peter A.

Sayward, Charles W.

Sherwin, Oliver

VIRGINIA.

ALEXANDRIA—*Howard & Gilroy (Bricklayers)

*Krouse & Ballenger (Bricklayers)

*Padgett, Henry & Joseph (Bricklayers)

†Rodgers, Joseph F., South Fairfax

†Scott, Thomas, 113 S Pitt

BEDFORD CITY—†Bondurant, J. E.

†Buck, E. G.

BECKLEY—†Farrell, Mack M.

†Grimes, Geo. L.

†Jones, Jno. W.

†Nichols, Jesse T.

†Smith, Augustus C.

†Sykes, Willis W.

†Whitehurst, Geo. D.

BUENA VISTA—Newland, Wm. P.

CHARLOTTESVILLE—Cocke, C. C.

†King Lumber Co.

Phillips, James

*Updyke Bros.

Walters & Vandegrift

Wheeler & Delton

CLIFTON FORGE—Alleghany Const. Co.

Coyner, R. A.

†Fisher, E. P.

†Fowler, Theril

Stoup, L. B.

Thomas, J. F.

Trihblitt, R. R.

Wills, W. L.

COVINGTON—†Alexander, Jno.

†Baker, John

†Long, J. B. & W. A.

†McClung, J. E. & Co.

Pickney, J. R.

Wyate, Jno. W.

DANVILLE—Brown, F., Dame & Lee

Crawley, W. H., Clay, N. D.

†Deitrick, W. H., 506 Patton

†East, Chas. H., 116 Ridge

†Ferguson, J., Clairborn st

†Fitzgerald, S. B., 134 Holbrook

†Graham, J. V., 539 Patton

†Graham, R. B., 312 Patton

†Osborne, H. A., 681 Lee

†Pleasants, Jos. R., 518 Patton

FARMVILLE—Bolling, Thos. A.

Burton, Robt. M.

†Burton & Davis

Cox, Geo. E.

Miller, Wm.

Pollard, Daniel

Twetvetress, F. H.

White & Carter

FREDERICKSBURG—†Bowling, A. J.

Garner, A. M.

Heflin, Jno. J.

Stearns, Frank P.

Worter, Geo. W.

HAMPTON—†Brinson, J. H.

†Holtclaw Bros. (Large)

†Mears, G. O.

Messenger, P. B.

Patrick, A. A.

Pully, L. O.

*Richardson, R. H. & Son
 †Thompson & Remington
 Topping, Hy. C.
 †Wallace, A. D.
 Weston, Alex.

LEXINGTON—Boogher, E. N.
 Colvin, W. C.
 Heck, J. E.
 Layne, D. S.

LYNCHBURG—Adams-Monroe Mfg. Co. (Large)
 †Agnor, Lee S. & Son
 †Farrar, A. W., 206 B
 †McLaughlin, Jas. T., 211 Ninth
 Parrish, J. E. (Large)
 †Pettyjohn, John P., & Co. (Large)
 Smoot & Shehan
 †Snead, W. B. & Co., 1321 Main
 Stephens, Jas. L., 1211 Church
 Thomas, Robert O., 1509 12th
 †Wilson & Seay, 504 Main
 Wood & Co. (Stone)

MANCHESTER—†Bass, Ira
 †Broach, Jos. L.
 †Clarke, Jas. A.
 †Clary, Jas. W.
 †Cole, Eli T.
 †Edmonds, Isham
 †Fry, Jno. F.
 †Newell, Alonzo D.
 †Ride, Wm.
 †Walker, R. D.

MARTINSVILLE—Aaron, O. C.
 Burge, L. J.
 Carter, R. L.
 Davis, B. I.
 Heard, J. C.
 Leavender, J. P.
 Lewis, Linsey

NEWPORT NEWS—Brickley, G. B. & Co.
 Beale, David F., 221 25th
 †Burnette, R. C., 332 25th
 †Curtis, Jas. C., 114 35th
 *Davis, J. W. (Brick)
 Davis, Jno. W., C. & M. Bk. bldg
 †Davis, Stephen, 445 30th
 Downing, Julian E., 231 30th
 †Eastman, M. J., 3014 West av
 Evans, George H.
 †Goodman, Jno. L., 114 35th
 †Harwood, R. K.
 †Home Building & Contracting Co., 211 31st
 †Lumber, W. H., 1019 27th
 McMillen, Jas., 2900 Wash. av
 Moore & Co., 3002 Lafayette av
 Moss, J. A.
 †Putnam, W. C., 123 26th
 Richardson, West, Silsby bldg
 Vaughan, E. R., River rd bel Pier 8
 Via, Geo. A., 114 27th
 Wallace, A. D., c 31st & Lafayette av
 †Ware, Geo. G., 2401 Orcutt av
 †Wasburn, Wm. W., 1240 27th

NORFOLK—†Abrams, Harvey S. S., 18 2d w
 Addenbrook's, J. U. Sons of Colley av
 †Allard, Rufus O., 162 Fenchurch
 †Andres, Jas. D., 31 Bank
 *Anthony, Arthur G. (Stone), 20th & Lewel-
 *Ashton, Wm., 220 E Brown av lyn av
 Ashton, Wm. J. (Brick)
 †Banks, Geo. T., 217 Monticello av
 Beale, M. V.
 †Bowers, Jno. L., W S Bowden's Ferry rd
 †Blick, L. T. & Son., 69 Cove
 †Brown, Jno. Y., 18 Hill
 Capps, Zebulon B., 801 Tunstall
 †Carhart, Chas. W., 134 Bank
 *Chapman, Edgar E. (Brick), 300 N Reser-
 †Cherry & McKown, 79 Wolfe voir av
 Clubb, Jno. E., 137 N Maltby av
 Consolvo & Matzke (Stone)
 *Dietz, Eugene P. (Brick), 441 Church
 †Dozier, Escue L., 416 Sheldons av
 †Drumwright, Jas. E., 27th nr Fawn, V H
 *Face, Walter E. (Brick), 18th c DeBree av
 †Fearing, Chas. E., 302 W Brambleton av
 †Ferguson, Robert T., 20 Bank
 †Ford, Jonathan F. (Brick), 225 Windsor av
 Good & Joynes, 12 Plume
 Gordon, C. T. & Son
 *Gordon & Gregory (Brick), 109 Ferguson av
 †Gregory, Walter T., 122 S Reservoir av
 Harper, Thos. W. (Brick)
 †Hart, Edward, 568 Main
 †Hayes, Wm. F., 27 Percy
 †Hervis, Alfred D., 421 Main
 †Holtzclaw Bros., 13 Granby
 *Holtzclaw Bros., 13 Granby
 Imes, Wm. E., 171 Plume
 Johnson, Alex. M., 46 Bank
 Jordan, Edw'd M., 548 Granby
 Laylor, Geo. T. (Brick), 362 Chapel
 Lum, Albert A., 87 Plume

Lumber, Robert A. (Brick)
 McCarthy, Michael J. (Stone), ft of Duke
 †McClannan, Robert L., 136 W Corprew av
 †McCloud, Logan, 02 W Corprew av
 Makinson, Allen J. (Stone)
 †Mattox, Jos. M., 430 N Reservoir av
 †May, Frank R., Citizens Bank bldg
 †Moling, Robert S., Va.-Carolina bldg
 †Moore, Floyd E., 172 Plume
 †Moore, Melvin J., 48 Talbot
 Mulqueen, Jas. (Stone)
 Murray, W. D. & Co., 234 Main
 †Myers, Edw'd L., Haddington bldg
 Nichols, Benj. L., 401 W Brambleton av
 †Nuckols, Temple A., 209 Plume
 †Nunn, Levi L., 28 Talbot
 O'Brien, Alex. A. (Brick), 307 Charlotte
 †Overmeyer, Chas. F., 48th nr Tanner's ck
 †Parlett, Claudius R.
 *Pettis, Wm. G., 130 Wood
 †Physic, Nelson B., 11 Chapel la
 †Pierce, Jno. H., Atlantic bldg
 †Powell, Wm. W., 3d st, Riverside
 †Price, Rodolph M., 26th c Fawn, V H
 †Proescher, Geo. L., 186 Chapel, extd
 †Rawlett, Henry E., 57 Cumberland
 Richardson, R. H. & Son, Citizens B'k bldg
 †Rife, Daniel T., N S Lawrence av
 Rosson, Benj. F. (Brick), 322 E Lovitt av
 Sanford & Brooks, Sanford bldg
 *Sharpley, Jno. H. (Brick), 1136 E Lovitt
 Spann, Edgar W. (Brick), 829 W Highland
 *Spann, Jno. F., 30th nr Granby av
 †Tatterson, Elbert, 36 Granby
 †Trummel, Mikes T., 400 Marshall av
 Tyree Bros., Lowenberg bldg
 Vick, Jos. O. (Brick),
 †Williams, H. W., 93 Bank
 †Wilsbin, T. H., 456 Colley av
 †Wilson, Benj. F., 139 Plume
 Worrell & Williams, 4 Plume

PETERSBURG—†Hollingsworth & Hogwood, 47
 Long Market

†James, G. N., 45 Long Market
 Robinson, W. W., High
 Rowell, J. C., Sheppard
 Tucker, George W., 5 N Union

PHOEBUS—†Clark, W. F.
 Fuller, P. A.

POCAHONTAS—Kohrich, Edw.

PORTSMOUTH—*Bess, W. L. †(Brick), 801
 †Boswick, Jas. R., 112 Effingham Green
 Bowers, S. & Son (Brick)
 †Brown, Jno. P., 1006 South
 †Colonna, Wm. B., 528 County
 †Cross, E. Son Co. (Inc.), 518 Henry
 †Godwin, David W., 922 Effingham
 †Hutchins, S. B., 409 Wythe
 †Johnson, Edw'd W., 1601 Glasgow
 †Moody, C. N., 1908 High
 *Ogg & Walker (Stone), 818 Glasgow
 †Overman, E., County ex. c Virginia av, C P
 †Plummer, Laban J., 1501 Effingham
 †Rainey, Wm. A., Wilcox av c A, Brighton
 Riddick, Richard (Brick)
 †Wilkins, Edw. B., 229 B

PULASKI CITY—†Barton & Stuart
 †Connelly & Dickson
 †Miller & Warden

RADFORD—Burton, Chester
 Enbass, James
 †Enterprise Contracting Co.

RICHMOND—†Ancarrow, Newton E., 724 E
 †Arnheim, Leonard, 73 Leigh Main
 †Bailey, Madison, 1202 N 33d
 †Baker, Elijah D., 2413 M
 Beveridge, Wm. H. (Brick), 7 N 11th
 †Bialkowski, Cbas. M., 1525 N 23d
 †Bowles, R. D., 1302 W Cary
 †Boyd, Geo. W., 914 N 3d
 †Bradley, W. B. Construction Co., Dock nr
 †Burruss, Cary H., 4 N 2d 17th
 †Burton, Carbury, 503 Catherine
 Carter, Robert C. (Brick), 1004 W Main
 †Cheatwood, Leonard J., 1211 E Broad
 †Chesterman, W. A. (Large), Cham of
 †Coleman, Jno., 2920 P Com bldg
 †Collins, Geo. W., 517 Catharine
 †Collins, Jno. E., 709 N 25th
 †Cook, C. Stanley, 201 Randolph
 †Cooley, Abner, 16 N 3d
 †Cosby, Berry F., 9 N 7th
 †Daniel, Samuel L., 600 N 27th
 †Davis, C. W. & Bro., 111 W Broad
 †Deane, J. Spencer, 212 N 1st
 †Drever, Jno., 205 E Canal
 †Duke, Geo. W., 117 S 2d
 †Ellis, Geo. W. & Son, 306 N 21st
 †Elmore, Moses M., 9 S Pine
 †Elmore, R. E. & Co., 1625 W Broad
 Farrar, D. J., 610 N 1st

†Farrar, Jno. E. C., 400 N 1st
 †Fleet, Christopher W., 101 Mayo
 †Flippin, Jas. H., 1003 N 34th
 †Folkes, Wellington C., 702 N 27th
 †Forstmann, Geo. W., 603 W Main
 †Fox, Jas. & Sons, 207 Mayo
 †Gaines, A., 208 S 2d
 †Gibson, Geo., 205 E Canal
 †Gibson, Jno. T., 133 S Cherry
 †Goddin, J. Temple, 2225 E Clay
 †Gray, Wm. T., 516 Randolph
 †Green, Arthur R., 700 Holloway al
 †Griffin, Wm. L., 206 E Marshall
 †Hall, O. T., 2236 W Grace
 †Hankins, Oliver A., 1306 W Cary
 †Harris, Edw'd H., 303 Virginia av
 †Heppert, Joseph, 908 W Clay
 †Holland, G. S., 513 Randolph
 Holt, Branch A., 311 N 8th
 †Houston, A. C., 10 S 6th
 †Hundley, Andrew J., 709 E Cary
 †Hunt, Gilbert J., 901 Floyd av
 James, J. Hy., 517 N 3d
 †Jarvis, Geo. W., 108 W Cary
 †Jenkins, L. C., 509 W Broad
 †Johnson, Briggs & Pitts, 819 E Main
 Johnson, Edw. J., 406 N 1st
 †Jones, Geo. B., 700 N 26th
 †Koons, Melvin H., 729 W Marshall
 †Kurfees, Jas. W., 209 W Marshall
 †Lacy, L. L., 310 N 1st
 †Langford, Thos. J., 2511 E Broad
 †Lawson, Isaac, 414 Cabell
 †Leadbetter, Walter C., 214 N Adams
 †Lighter, Frank E., 821 Graham, Fulton
 †Lloyd, Jno. A., 409 W Broad
 †McGee, Howard C., 112 N 2d
 †Mallory, Lucius E., 506 W Clay
 †Mankin Construction Co., 812 E Main
 †Mason, Cas. A., 1403 Beverly
 †Mason, Wm. R., 1601 W Marshall
 †Matthews, Harvey L., 9 S 6th
 †Mayo, Frank C., 16 N 14th
 †Melton, Jno. T. J., 3402 E Broad
 †Moore, Wm. H., 1321 Ross
 †Neale, Urbane, 2206 E Broad
 †Netherland & Eubank, 2701 N Cary
 †Newell, G. F. & T. D., 200 N 21st
 †Newell, Wm. B., 1315 Park av
 †Nuckols, Harvey B., 529 N 10th
 †Palmer, Wm. J., 12 N 20th
 †Parsons, Geo. W., 413 E Canal
 †Pennock, J. E. & A. L., Am.-Nat'l Bank
 Perkins, Javi (Brick), 2307 W Main bldg
 Phillips, Lucien W. (Brick), 1922 Floyd av
 Powers, Geo. L. (Brick), 909 W Marshall
 †Purvis, Fritz O., 102 North av
 †Ragland, W. Lauman, Barton av c Poe
 †Richardson, Willard H., 107 N 29th
 †Riddell, Jno. P., 1606 W Cary
 †Roney & Atkinson, 760 E Grace
 Ready, Chas. E. (Brick), 1912 Floyd av
 Ready, W. J. (Builder), 1601 Park av
 Redford, N. C. (Brick), 202 E Clay
 Sims, Chas. T., 814 W Marshall
 Smith, Lewis R. (Brick), 2218 W Grace
 †Smith, Wm. H., 525 N Adams
 †Stack, Jno. H., 702 E Grace
 †Stewart, Anderson, 1503 E Broad
 †Swann, Thos. C., 3419 E Clay
 †Thomas, Jos. W., 408 N 5th
 Tiller, Geo. W., 415 W Clay
 †Walton, Coddington B., 3301 E Marshall
 †Walton, Robert H., 3109 E Marshall
 Williams, H. W.
 *Wilson, Jno. T. (Large), Mutual Assurance
 Society hldg
 Wingfield, J. F. & Son, 313 W Marshall
 †Wiseman, Davis H., 500 Montello av
 †Wolff, Gustav F., 901 Brook av

ROANOKE—†Barbour, John F., Crystal Springs
 Conley, D. C. (Stone), 233 Gilmer av Ex
 †Figgatt & Newton, 301 Centre av, N W
 Grove, W. H., 348 Elm av, S W
 Harris, J. G.
 Hyman, W. P. (Stone), 220 Gilmer av
 †Kaffer, C. D., 403 Higbland av, S W
 Kirkbridge, T. W.
 †Lewton & Kirkbride, 417 3d. S E
 †Mahony, Elias, 508 Mountain av, S W
 Markley, C., 8 Campbell av, S W
 Nesbitt, Jos. C.
 †Pollard, J. B., 116 10th. S W
 †Shields, J. W., 422 Salem av, S W
 †Sbockey, Christopher C., 420 Campbell av,
 SALEM—Austin & Moore S W
 Fisher & Co.
 Geogan, George (Brick)
 Haiship, Robert
 Magee Bros. (Brick)
 Moore, Alex. (Stone)

Thomas, John M. & Co.
True, J. (Stone)
Wells, N.
STAUNTON—Blackburn & Lohr
Clark, R. S.
†Levick, A. J. & Bro., Church & Middlebrook
Peaco, G. W., Middlebrook av
SUFFOLK—Barnes, W. H.
Borum, George L.
†Burwell, Riddick
Culley, H. R.
Johnson, G. T.
Lawrence, J. B.
†Riddick, B.
Smith, Benjamin
Smith, George T.
Stallings, Abner
Tebo, W. S.
Walters, James
WINCHESTER—Anderson, C. M., Market
Hunter, Grins & Co., Braddock
Seabright, James, Washington

WASHINGTON.

ABERDEEN—Creech Bros.
†Lucas & Bean
Raycraft, J. W. & Co.
*Weatherwax, Frank
ANACORTES—Barnett, C. C.
Buckmaster, Wm.
Davis, D. J.
*Dean, Jesse
†Pennington & Trafton
Robertson, J. S.
†See, E. G.
*See, J. J.
BALLARD—Burkland, J. A.
Cooper, J. F.
Howell, O. C.
James, J. L.
Johnck, E. L.
*Kemoe, L. P.
McDonald, Alexander
Peters, E. R.
Rathvon, B. F.
Thompson, J. F.
BELLINGHAM—†Baumeister, W. I. & Co.
Belleisle, Michael
Bone, J. R.
Booker & Campbell
Boyd & Noble
Carlson, C. C.
Daniels, F. E.
Doran, George
Harmon, S. E.
†Hawkins, Swan
Hopkins, D. L.
Jones, W. H.
McDonald, W. J.
McLeod, W. D.
McNeill, Stephen
Marsland, A. H.
Martinson & Ossberg
Mills, Peter
†Moore, L. H.
Noble, J. N.
Osberg, Peter
Richardson, J. A.
Schuldt, G. C.
Scovill, A. H.
Shockey, J. S.
Stryker, T. D.
†Sutherland, B. R.
†Waples, Magnus
Warner, D. E.
Warner, L. H.
Worthington, J. A.
BLAINE—Bertrand, J. O.
*Fillmore, F. A.
Hustead, Wm.
Kohn, Walter
*Loomis, C. A.
*Shaw, J. T.
*Stuart, J.
CENTRALIA—Fuszard & Radebaugh
CHEHALIS—*Leek, John & Son
*Nelson, Wm.
CLARKSTON—Koble, J. A.
Roper, B. J.
COLFAX—Colvin Bros.
Crawford, D. B.
Duchemin, P. R.
*Eastman Bros.
Good, J. R. & Co.
DAYTON—Burrows, W. H.
Dillingham, A. R.
Lewis, Robert A.
ELLENSBURG—Ackley, H. C.
Allen, J. L.

Ames, W. O.
Crawford, J. W.
Garvey, Peter
Gilmore & Storm
Moon, Jno.
Riggs, Alonzo
Sneer, P. E.
EVERETT—Baptie, Walter
†Borland & Harris
Broking, A. D.
Chapman, N. J.
Cockin, Eberhard
†Cook, U. L.
Knapp, C. W.
McAdam, Robert B.
Miller, W. J.
Nutting, S. E.
†Pleet & Paddock
†Roberts, Hoffee & Co.
Sage, Frank
Williams, R. B.
Wright, H. S.
HOQUIAM—Knack, F.
†Morant & Watson
†Philbrick, C. E.
†Romans Bros.
MOUNT VERNON—Day, C. T.
*Harris, W. H.
Martin, C. F.
Robinson, N. H.
*Slayton, C. G.
Stackpole, F. H.
NORTH YAKIMA—Bruenn, C. H.
Felton, W. W.
Howard, A. E.
†Stewart, W. T.
OLYMPIA—Bell, J. M.
*Blauvelt, T. P.
†Forbes, G. D. & Son
Johnston, Clement
Lenherr, J. I.
Olympia Mfg. & Bldg. Co.
*Payn, E. J.
Wiley, H. L.
PORT ANGELES—Frank, J. F.
PORT TOWNSEND—Fountain & Fulton
Richards, Wm.
Stegerwald, Andrew
PULLMAN—Parr, R. W.
Pullman Improvement Co.
Valk, A.
PUYALLUP—Chandler, Harry
RITZVILLE—Carlen, G. A.
McCollom, W. D.
Roth, Benj.
†Schuler, S. S. & Sons
ROSLYN—Adam, Wm.
†Banister Bros.
*Craig, Wm.
*Rupert, Fred.
SEATTLE—Ault, Harvey N., 813 Pike
†Austin, J. E., New York blk
†Ayers & Strickler, 828 Yesler way
†Barrett, A. E. & Le Roy Co., Downs bldg
†Beattie, C. H., Arcade bldg
†Bennett, F. H., 44 Haller bldg
†Branigan, Matthew, 412 10th
†Brazee & Son, 154 E 62d
†Brown, Bliss & Wilken, Sullivan bldg
†Cannon, F. S., Arcade bldg
†Cannon, J. F., Arcade bldg
Cannon, J. L., Terry av & Marlon
*Carkeek, S., 2324 2d
Carter, Robert E., 1414 1st av
†Case Bros., 756 N 74th
†Cawsey & Carney, Washington bldg
†Chapman, C. A., Arcade bldg
†Clifford & Murdock, 726 14th av
†Davis, E. B., Alaska bldg
Dietrich, Geo. E., Globe bldg
†Dow, D. & Co., 212 21st av
†Dow, Matthew, Boston blk
†Eckloff Mfg. Co., 8th av nr Lenora
†Eitel Bros. (Large), Eitel bldg
†Ellis & McLean, 2114 E Columbia
†Portner & Willard, 139 Ballard av
†Frantz, J. J., 420 12th av, S.
General Eng. & Const. Co., Denny bldg
*Ginnold, A. R. (Brick & Stone), New York blk
†Gibble & Skeene Co., 311 Hinckley blk
*Hall Bros., 519 18th av, N.
Hansen & Lehman, 1928 7th av
†Harvey, J. H. & Co., 429 Madison
*Hill, C. H. (Stone), 115 Seneca
†Hillman, C. D., Times bldg
†Hudson Bros. (Large), 906 N 79th
†Hutchins & Criddle, 408 W Gales
Jackson, J. F., 223 Marion
†Jenkins Bros., Rainier Beach
†Johnson & Son, 1420 26th av

†Lavanway, W. W., 515 Washington bldg
†Leighton, Henry & Co., Times bldg
McLellan & Co., Burke bldg
†McNamara, Jas. & Son, 926 26th, S.
†Martin & Son, 616 Malden
May, Frank R., Arcade bldg
*Megrath & Duhamel (Large), 1308 3d av
†Nelson, George, 1224 Alaska bldg
Noyes, W. W., Walker bldg
†Orr, Herbert N., Oriental bldg
†Overton, George, New York blk
†Ovington & Co., 1521 7th av, W.
†Pearson, Alexander, 754 New York blk
†Phillips, Wm. J. & Co., 612 Queen Anne
†Pierce & Lindman, 212 Seneca
†Reed, Reinecke & Reed, 109 Weller
†Riley, J. E., 504 Bailey bldg
*Riverside Stone Co. (Brick & Stone), Marlon blk
Roselcaf, Otto, Lowman bldg
†Rounds, E. J. & Co., Boston blk
†Ryckman, J. H., 1410 12th av
†Ryden, J. P. & Co., 314 Hinckley blk
Sephton, E., 2413 1st av
Stewart, H. D., 415 Pike
†Stirtan, F. A., 813 Pike
†Sturtevant, Cullen K., Boston blk
†Taylor, J. T. & Son, 2017 Norman
†Thomas, J. A., 216 Hinckley blk
†Tibbs, C. E., 510 2d av
†Visser, Rice, 1126 17th av, N.
†Waddington & Arvesen, 222 Union
Westcott, F. H., 519 6th av, S
†Westall & Heltsley, 3910 Linden av
†Wilkes, A. B., Pacific blk
Williams, Chas. L., New York blk
Wilson, James, 734 N 82d
†Winchell & Son, 515 Ward
†Woock & Behrens, 315 Oriental blk
†Wylie, Wm. M. J., 2608 E Thomas
SEDRO WOOLLEY—Ennis, D. B.
Gillis, J. A.
Howard, Frank
Martindale, W. O.
*Renfro, W. H.
Welmarth, Fred'k
Wilbur, F. E.
SNOHOMISH—†White, J. S.
SOUTH BEND—Arnold, S. B.
†Miller Bros.
Murdock, W. B.
Rude, C. O.
SPOKANE—Boyington, D., Fernwell bldg
Boyles, E. F., Peyton bldg
Brockway, L. C.
Burns & Hall, 2d & McClellan
Butler, A. G., 226 Stevens
Creutzer, J. A., 911 Mallon av
Cunningham, J. E., Cliff & Grant
Davis, O. J.
*Fahey, John (Stone)
†Fotheringham, D. B., Van Volkenberg bldg
Hastle & Dougan, 506½ Sprague av
Huetter, J. T. E., 429 Sharp av
†Johnson, F. & Son, S Boone av
Lahr, Ernest E.
Lillenthal, Henry L.
Lombard, Frank, 217 Boone
Mahan, Thos. F., Post opp C. & C. Mill
†Miller & Johnson, 2307 Dean av
Murphy, M. C., 1st & Howard
Nixon & Kimmel, 327 Wall
Norman, Nic., Hypotheekbank bldg
†Oliver, E. A., 2d av c Browne
Peterson, F. E., Fernwell bldg
Peterson, P. L. (Large), 2220 Bridge av
†Phair, Frederick E., 1723 Jefferson
Skinner, H. J., The Rookery
†Smith, F. J. & Co., 713 Front av
Stewart, Wm. (Brick & Stone), 108 Bump blk
Sweatt & Wallace, Hyde blk
Tamblin, E. J.
Vigors, Thos., 1702 Dean av
White, J. T., 1504 Dean av
Willett & Camp, 27 Main
TACOMA—†Benjamin, Mr., 1514 South C
†Berens, Anton, 1334 Pacific av
Blehn, John, 1533 South E
†Black, A. S., 403 S 9th
†Bonnell, J. E. (Large), 932 Railroad
*Box, Wm. E. (Brick & Stone), 307 N L
Bragonier, H. C., 611 S 16th
†Cantara, F. T., 909 & 21st
Cornell Bros., 702 South C
†Darling, J. E., 441 South E
†Davis, W. T., 1525 S Tacoma av
†Dickson, J. C., 1123 South E
†Duff, R. D., 1102 N E
Erickson, C. F., 721 S 11th
†Estes, J. H., 4809 N 39th
Evans, Geo. B.
Evans, J. J.
†Evans, W. M., 2615 S 14th

Flanagan, P. J., 2550 South J
 †Frace, J. A., 902 A
 †Frier, G. L., 3318 6th av
 †Gartrell, Wm., 3124 N 9th
 Hastie & Dougan, Bernice bldg
 Hill, E. C., 1909 N Prospect
 Hill, Geo. (Brick & Stone), 3710 S M
 †Hitchcock, Solomon C., 1014 S 9th
 †Holgerson, R. M., 2423 East L
 Hoppling, D. P., 3316 N 28th
 †Johnson, J. N., 1320 Puyallup av
 Knoell Bros., 1211 South L
 †Larson, Olaf F., 644 N Fife
 †Miller, Albert, 1125 S Tacoma av
 Miller, Hard & Brill, 110 Commerce
 Newberry, Robt. (Brick & Stone), 916 1/2 S
 †Oliver, James, 409 North L
 Oisen, Peter, c East M & 25th
 †Opperman, C. A., 207 E 30th
 Rosman, G. L., 5134 South L
 †Sayre, C. A., 1136 Commerce
 Sinnock, Walter J., 322 6th av
 †Sinnock, J. L., 751 South C
 †Snyder, Frank, 107 South 9th
 Snyder, W. Scott, 3307 S 7th
 Steel, A. R., n E 27th & R
 †Swanson, N. G., Parkland
 VANCOUVER—Andrew, J. H.
 Arthur, W. C.
 Bogue, Wm.
 Burgy, L. I.
 Byham, W. J.
 Caples, Douglas
 Chapman, R. G.
 *Dupuis, F. X.
 Flaughner, J. P.
 Gooley, G. H.
 Goss, J. F.
 Harrison, Oscar
 *Henrichsen, N. H.
 Hitchcock, C. M.
 Knight, Chatfield
 Lester, Frederic
 Peyton, B. F.
 Shepard, J. C.
 Stamp, David
 Wentworth, J. W.
 Weston, F. S.
 White, S. P.
 Wood, W. H.
 WALLA WALLA—Anderson, S. F.
 †Butcher & Maple
 Harvey, E.
 Eimer, E. W.
 *Jones, Harry
 *Jones, J. L.
 Miller, Joseph H.
 Sellars, J. D.
 Snell, G. H.
 WENATCHEE—Fischer, A. D.
 Gamble, J. T.
 Grant, W. A.
 Miller, Jacob

WEST VIRGINIA.

BLUEFIELD—Hutchinson, J. L.
 CHARLESTON—Carlson, James
 Ferrell, E. J.
 Garcelon, J. W.
 Hennemann, George
 Rusk, M. M.
 Smith, M. V.
 †Withrow Lumber Co.
 CHARLESTOWN—Anderson, G. F.
 Beachley, E. B.
 Beller, F. L.
 †Grady, James
 †Julius, C.
 Higgs & Calderwood
 Holmes, J. C.
 CLARKSBURG—†Elliott & Wenchell
 †Gladden & Alexander
 Hickman, C. I.
 †Howell & Osborn
 McConnell, J. A.
 FAIRMONT—Bennett, Mrs. P. H.
 Bennett, Patrick
 †Brady Construction Co., Inc. (Large
 Structures of all kinds)
 Clayton, W. A. & Co.
 †Dickerson Bros.
 †Fleming, O. J.
 Kelley, W. H.
 GRAFTON—†Augur, O. S. & Co.
 †Barrett, M. E.
 HUNTINGTON—†Chum, S. B.
 Creekbaum, J. T., 1554 3d av
 †Higgs, J. W.
 Shore, R., 913 4th av

MARTINSBURG—Buxton, G. W.
 Couchman, G. H.
 Tebo, W. E.
 †Westenhauer, S. A. (Large)
 MOUNDSVILLE—†Batson, Baldwin & Estel
 NEW CUMBERLAND—†Bradley, James
 PARKERSBURG—†Black, T. A.
 †Carfer, John M., 648 E 8th
 Daniels, John H. (Brick & Stone), 800
 †Davidson, S., 119 W 13th Quincy
 †Elliott, W. S., 121 13th
 †Higgs, J. S., 910 Ann
 Keenan, C. M. (Brick), 428 E 12th
 Keenan, Samuel (Stone), 128 8th
 †Miller, Thos. J., 809 Swann
 †Taylor, Z. T., 1808 St. Mary's av
 PIEDMONT—†Fredlock, E. J.
 Knight & Klink
 Squires, B. M. & Bro.
 SALEM—Anderson, Clay
 †Davis, M. W.
 WELLSBURG—Davies, J. G. W.
 †McNally, John
 Nickols & Matthews (Large)
 WESTON—†Arnold, Albert A.
 †Fuccey, Joe
 †Hale, P. M.
 WHEELING—†Beltz, J. W. & Sons, 19th c Eoff
 Britt, Thomas G. (Brick), 130 19th
 Brooks, J. W. (Brick), 67 15th
 Burkhardt, Chas. (Stone), 3616 Chapline
 *Butts, J. R. & Co. (Brick), 181 16th
 *Carney, Wm., Sr., 2323 Market
 Fair, H. W., 1225 Eoff
 Fahey Bros., 42d and McColloch
 †Fisher, August, 35 44th
 †Freise, Wm. & Son, 138 15th
 †Geisey, John L., 149 15th
 Gilligan, P. J. (Stone), 1119 Eoff
 †Halleck, S. G. & Co. (gen'l), City Blk bldg
 †Hamilton Bros., Peabody bldg
 Hamilton, N. C. & Sons, 1409 Market
 Harco, Edw., Fulton st
 †Hartong, Louis C. & Son, 80 N. Front
 †Hawkins, G., A-11 N Huron
 †Holliday, E. M. & Co., 31st & Eoff
 Hoover & Kinnear Co., 22 21st
 *Keller, G. O. (Stone), 137 17th
 Klieves-Kraft Co., Eoff n 22d
 *Lemmon, Geo. W. (Brick), 24 N Wabash
 Lotz, Christian (Stone), 2230 Market
 †McCarty, Chas. D., 30 14th
 McClain & Co. (Stone), Hub bldg
 †Morris, Jacob, 48 17th
 Murray Bros., 1209 Eoff
 *Nesbitt, W. J. & Sons (Brick), 1510 Wood
 Perkins, B. Frank (Brick), 2331 Eoff
 †Redman, B. E., 1317 McColloch
 †Ritz, John A., 1107 Lind
 Rosenberg, J. H. & Son (Stone), 2810 Eoff
 Schweizer, Jacob (Stone), 744 Market
 †Wilson, W. A. & Son, 1215 Main
 †Woods, W. W. Co., 33d & Chapline

WISCONSIN.

ANTIGO—Breunig, George
 *Peterson, Agmos
 APPLETON—†Ashman, Geo. H.
 †Bomier, Godfrey
 †Brown, Henry
 †Fraser, A. A.
 †Glaser, C. J.
 †Gmeiner, Nich. A.
 †Grearson, Geo. A.
 †Green, J. H. & Sons (Large)
 Gruenke, Aug.
 *Hackworthy Construction Co.
 †Hegner, J. H.
 *Hoffman, Frederick H. & Bro.
 †Hoffman, Henry, 660 Bennett
 Jens & Timm, 892 Winnebago
 †Jens, Henry C.
 †Jensen, R. L.
 *Johnston, Thos. E.
 †Kelly, Thos.
 †Koepeke, Ferd.
 †Lange, Chas.
 †Lillge, Fred.
 †O'Keefe & Orbison (Mills, etc.)
 †Renner, Jacob
 †Robloff, Wm.
 †Rubbert, Gustav
 †Schmiege, Charles
 †Schmiege, Frank
 †Schmiege, Fred. W.
 †Schmitz, John M.
 †Schneider, Henry (Large)
 †Sherry, Jas.
 †Silver, Jas. A.
 †Stoesser, John
 †Urban, Aug. L.
 †Wettengel, Anton
 Wilson, Wm.
 †Zschaeschnor Bros.
 ASHLAND—*Donald, A. & Co.
 †Eagan, Daniel
 †Pugh, T. E.
 †Scott-Taylor Co. (Large)
 BARABOO—Campbell, E. J.
 †McFarland Bros.
 *Swan, Alfred
 *Worth, Daniel
 BEAVER DAM—Greiner, Wm. J.
 *Groling, Charles
 Hensler, Conrad
 †Herr, John
 BELOIT—Bassett, D. F.
 †Cunningham Bros. (Large)
 Dearhammer, A. L.
 *Fitzgerald, Wm.
 Keeley, John
 Keisling, Henry
 Ledell, J. H.
 Magill, Wm.
 Marsh, Chas.
 Quinn, W. H.
 Ramboldt, Chas.
 *Schneiberg Bros.
 †Stevens, W. E.
 BEKLIN—Brice & Asher
 *Petruschke, E. T.
 Warnke, Charles
 BLACK RIVER FALLS—†McGillivray, J. J.
 BURLINGTON—*Brooks, Joseph
 Diener, Chas.
 Rothering, Wm.
 Salsbury, Joseph C.
 *Zarnecke, Gustave
 CHIPPEWA FALLS—Abel, Anthony
 Cardinal, Napoleon
 Dodge, Charles
 †Stanley, F. G. & C. A. Co.
 DE PERE—Cuene, Frank
 Goemans, John
 *Van Gemert, Arnold
 EAU CLAIRE—Arnold, L. L. & Co.
 Central Construction Co.
 †Fish, E. M. Co. (Large)
 †Hoepfner, Bartlett & Co. (Large)
 Platt, L. A.
 †Potter & Hanson
 EDGERTON—Hargreaves, Geo. W.
 Henderson, J. O.
 FOND DU LAC—†Barret, Jas. J.
 †Collins, A. F. & Co.
 Engel, A.
 Immei, John W.
 *Jones, John M.
 †Ley, Julius
 McCugo & Brunett
 †O'Connell, Thos.
 Sizer, F. E.
 Tripp, J. B.
 Voell, Anton
 FORT ATKINSON—Ailing, H. L.
 Becker, George
 Becker, John
 Eals, George
 Harder, Guito
 Kunz, Charles
 Lieberman, George
 Mussehl, Henry
 Rockwell, Adeibert
 Triloff, Charles
 Urban, John
 Voigt, Albert
 GRAND RAPIDS—Dustin, A. H.
 Martin, John
 *Moulton, George
 Planke, J. E.
 GREEN BAY—Beernsten, William
 Crone & Kapp
 †Geniesse, J. H., 820 S Jackson
 †Georgensen, G., 418 N Maple
 †Green, Adolph (Large)
 Hay, John, 310 S Quincy
 Johnson, M., 1019 Harvey
 †Knudson, K., 317 Maple av
 Nitz, Gustave, 315 S Webster av
 Oneson, Berent, 815 Christiania
 Pickett, Wm., 141 S 12th
 Roy, Thos., 812 S Van Buren
 Tickler, Albert, 939 S Quincy
 Van Der Steen & De Groot
 Warwick, Jas., 1330 Chicago
 Whitcomb, Walter S., 803 Crooks
 HAYWARD—Mockler, P. B.
 *Walsh, John
 HUDSON—*Bartlett, J. E.
 Johnson, James
 *Kircher, Peter

Lee, John
 *Van Meter, James
JANESVILLE—Blair & Summers
 Colling, Geo. K.
 *Croft, James E., 164 Cherry
 Hager, Hilton & Co.
 Hays Bros.
 Janesville Cont. Co.
 Kelly & Mason
 Peters & Stewart
 Ryan, P. W.
 *Shearer, J. D.
 Stewart, D., 163 S High
 †Wright, J. P., 4 S Division
JEFFERSON—Christ, G. B.
 *Fehrmann, Herman
 Hake, Simon
 Krusing & Welte
 Ladien, Herman
 Lindl, Geo.
 *Spangler, John J.
 Wollet, John & Son
KAU KAUNA—Deno, Henry
 *Hohner, George & Son
 *Klarer, Ferdinand, S. K.
 Luckow, Albert, S. K.
 Lummerding, Jacob, S. K.
KENOSHA—*Buhl, Frederick
 *Bush, Nels J.
 Davis, J. Howard
 *Jensen, Morris
 †Kenosha Home Building Association
 *Larsen, Fred.
 *Larson, John
 Lindeman, George
 Lindemann, John T.
 Pabst, Julius T.
 *Philbin, James
 †Rowe, W. M.
 †Schaefer, Gottlieb
 †Theleen & Wallis
 *Tully, Joseph H., Sr.
LA CROSSE—†Bacheller, N. C., 11 N 3d
 *Barney, T. J., 911 Cameron av
 †Groff & Derr, 520 King
 †Mead-Funk Co., 320 S 4th
 †Miller Bros., 320 Main
 †Mitchell, A. H., 314 West av, N
 Molzahn & Lyons, 2352 State & 1322 Adams
 †Nelson, Peter, 1522 Kane
 *Noble, Chas. W., Batavian National Bank bldg
 *Rawlinson, Jas. (Brick), 1111 S 7th
 †Schwalbe & Magnussen, 1524 Madison
 †Sorensen, Ori J., Frank c Mt. Vernon
 †Stormont, James, 1426 Ferry
 *Wallace, David (Brick)
 †Witt, Herman, 1135 S 14th
 †Wold, C. (Stone), 1403 Jackson
LAKE GENEVA—*Coleman & Reinert
 Conroy, James
 †Forrest, Samuel
 †Soutar, R.
 †Thomas, T. E.
 *Vipham, Thomas (Brick)
LANCASTER—Brackett, F. A.
 †Brooker Bros. (& Planing Mill)
 Price, Daniel
MADISON—*Behrend & Boelsing
 *Butler, Dawson R.
 †Copp Bros.
 †Findorf, J. H. (Large)
 Fix Bros.
 Forbes, Geo. W.
 †Frederickson, A. D. & V. J. (Large)
 †Fritz, Carl
 *Gilbert, L. B. (Large)
 †Hanson, Fred, 26 N Baldwin
 †Hoffman & Pschorr
 †Johnson, Adolph
 †Lutcher, Jacob J., 807 E Johnson
 *McCarthy, T. C. (Large)
 *Oakey & Oakey, 1203 W Johnson
 *Morgan & Morgan, 305 E Johnson
 †Sayle Building & Mfg. Co.
 †Swenson Bros.
 †Tyrrell, Jos. 444½ W Gilman
 †Vetter, John G.
 †Vogel, George, 917 Williamson
MANITOWAC—Brachnan, N. J.
 †Bressler, C. H.
 †Dallman, C. A.
 †Kennedy, George W.
 Schlusleder, Anton
 *Stadler, Nicholas
MARINETTE—†Anderson, Arnt
 *Belonga, Henry
 Briggs, B.
 †Crockett, John
 *Dean, Emil

Duket, Alexander
 Gagnier, Alex.
 †Lahaie, Ferdinand
 Matt, Philip
 Miller, Wm.
 Robinson, W. H.
 *Rouse, James
 Sanderson, John
 Zentner, John
MARSHFIELD—*Weber, Andrew
 †Wright, Thos.
MENASHA—Buehl, Anton
 †Lux, John
 Oberweiser, Frank
 †Patchen, M. J.
MENOMONIE—*Bailey, D. S.
 Bunker & Doolittle
 †Govin, Stephen
 Olson, Sever
 *Schultz, Ferdinand
 *Schultz, William
MERRILL—Duteau, George
 †English Construction Co.
MILWAUKEE—Ahrendt & Nero, 322 Ogden av
 Ahrendt & Scheer, 1415 Wells
 Angove & Pierce, 613 Cherry
 Baltes, A. & Son, 108 Lincoln av
 Benkendorf, Emil, 245 Motor av
 Biemann, Otto, 1303 Richards
 Biesel, William H., 1315 Harmon
 *Bond, Chas. W., 220 20th
 Booth, Harry, 777 Cass
 Booth, Jno., 109 25th
 Boru, Otto & Co., 1137 6th
 Buchach, E. M., 395 Reed
 *Buchholz, August C., 907 11th
 Buchholz, Robert W., 728 13th
 †Buestrin, H. & Sons (Large), 565 E Water
 Busacker, August, 701 31st
 Busacker, Carl F., 2332 Kilbourn
 Butzke, Aug., 126 Locust
 Ckmelviz, Andrew, 383 3d
 †Clas, L. A., 564 Maryland av
 Clouse, Chas., 360 Brady
 Conrad, Joseph B., 1028 National av
 Cross, Edw'd W., 114 Mason
 *Czaplewski, Stephen & Son, 872 2d av
 Daemmich, Armand, 1314 State
 Dalglish, D. L., Jr., 264 27th
 *Dallmann, Wm. & Son, 462 35th
 *Danischewsky, Hy., 1060 8th
 Debbink, D. John, 1621 Vine
 Dorn, Ernest F., 893 21st av
 Ehrich, Otto, 1702 Wright
 †Ellis & Coogan, 599 Jackson
 *Equitz, Aug. C., 1058 17th
 Erickson, John A., 343 23d
 †Ferge, Henry, Hathaway bldg
 *Fischer, Charles, 378 20th av
 *Frahm, Louis, 718 21st av
 Fromm, Oscar, 892 5th
 *Gaffrie, Herman, 881 18th
 Gauger, Frank A., College & Morse avs
 *Gehring, Rudolph, 100 Center
 †General Construction Co. (Large), 106 Mason
 Genger, Chas., 310 24th
 Goelzer & Schultz, 732 37th
 Graf, Benjamin, 3602 Galena
 Grellinger, C., 2815 Clarke
 *Grether, Emil, 767 5th
 Griebing & Schmidt, 681 Van Buren
 Gruhn, Leopold, 651 24th
 Gruendler, Geo. Sons, 481 B'way
 *Grunewald, Charles, 818 18th
 Guetzkow, Chas. Co., 185 13th
 Guetzkow, L. A., 142 2d
 Haberlach, Carl, 902 18th
 Hahn, Ernst, 723 Prairie
 Hahn, H. G., 923 7th
 Hanson, Chas. H., Germania bldg
 Hardtke, Leberecht, 581 23d
 Hathaway, J. E. & Co., Hathaway bldg
 Hauck, Jno., 931 3d
 Hausmann Bros., 777 36th
 *Heiden, John, 718 Centre
 *Heiden, Robert, 1072 21st
 Hintz, F. M., 1027 Centre
 *Hoepfner, Richard, 2602 Kilbourn av
 Hoffmeister, August, 1194 5th
 Holstein, Aug., 1726 Chestnut
 Hood & Tullgren, 86 Michigan
 Hornig, Fred. R., 2114 Fond du Lac av
 *Hove, Henry, 1922 State
 *Huebbe, Chas., 1534 24½
 Huebner, Julius, 182 2d
 Huebner, Herman, 187 Biddle
 Hunholz, Frank, 2820 McKinley boul
 Hunholz, John, 713 33d
 Jaeger, Jacob J., 1147 Scott
 *Jaeger, Wm. T., 840 1st
 *Jeske, Gustav J. & Bro., 1089 Richards

Johnson, Wm. F., 733 31st
 Jones, David, 142 13th
 *Jones, John G., 209 Pleasant
 Kasten, Wm., 769 9th
 Kelling, Henry C., 887 7th
 Kemnitz, H. A., 182 Woodward
 *Kerner, Theo., Pasadena Flats
 Kindt, Charles F., 111 20th
 Kindt, Otto H., 1005 24½
 *Klemens, Emil, 1259 Burleigh
 Klepp, Chas. A., 1026 21st
 Klocks, Wm., 785 Booth
 *Knie, Rudolph, 1193 Richards
 *Koeller, Emil, 1117 Humboldt av
 †Langenberger Construction Co., 302 6th
 Lauer, Peter, 608 10th
 *Lietz, William, 2128 Elm
 Marks Bros., White nr Summit av
 McCann Bros., 461 Van Buren
 McDonald, Geo. H., Railway Exchange bldg
 McElligott, W., 1913 State
 *Meredith, Bros. Co., 1043 Kinnikinnic av
 Mertz, Jos. M., 1499 10th
 *Metternich, Jno., 1037 8th av
 Meyer, Hy. W., 1423 Hadley
 †Meyer, Jacob, 2821 Meinecke av
 Miksch Bros., 624 5th av
 Miller, Hy. F., 520 E Keefe av
 Miller, Lorenz, 982 26th av
 *Moritz, Ludwig & Son, 1028 23d av
 Mueller, Henry P., 399 7th
 Nichol, Arthur J., 182 Mason
 *Nichol, Jno. T., 246 Brady
 *Niezorawski, Frank, Johnson
 †Northern Construction Co. (Large), 106
 *Nuedling, A. & Son, 998 16th Mason
 *Oldenburg, Fred'k, 2624 Cherry
 Perathaner, Wm., 1123 23d
 *Piepenhagen, Fred., 807 Booth
 Posson, Peter E. (Large), 106 Mason
 Potter, H. G., White
 Quinn, James J. Co., 208 Milwaukee
 Radtke, Jul., 484 Milwaukee
 Ramthun, Henry, 2629 Bismarck
 *Raulf, Conrad, Jr., 533 24th
 Rehm, Leopold, 1165 19th
 Reilly, Cyrus J., 708 Van Buren
 Reilly, Henry, 187 Farwell
 Reilly, Simon, 383 Oakland
 *Riesen, Paul (Large), 1022 Humboldt
 Riesen, Richard (Large), 240 24th
 Rische, Frederick (Large), 1631 Prairie
 *Rischmann, William, 1016 10th
 Roberts, Owen E., 751 Astor
 Rodenkirch, Michael, 546 28th
 Roeder, Gustave J., 96 Reservoir av
 Rusch, Wm., 1091 Washington av
 *Scheiderer, George G., 515a 28th
 Schmidt, Peter W., 1006 Becher
 Schmitt, Herman & Son, 684 Jackson
 *Schneider, Hugo, 315 Locust
 *Schoknecht, Christian, 1212 2d
 *Schramka, John, 1001 Bremen
 *Schuett & Frey, 791 Weil
 *Schultz, William, 1400 6th
 Schulz, Erdmann, 673 Kiunickinnic av
 Seifert, H. N., Hawley rd
 *Steigerwald, Edw., 2d & Sycamore
 Steuerwald, J. D., 789 27th
 Stollenwerk, Elias & Co., 952 Aldrich
 *Strachota, Wenzel & Sons Co., 687 Walker
 *Stuewe, G. F., 308 20th
 *Tabbert, R. E. & Son, 581 Scott
 *Taddey, Adolph G., 747 16th
 Theis, Mathew, 1014 Clarke
 Thiessenhusen, Reinhold, 325 16th av
 *Totsch, Gustav, 1476 7th
 *Tribus, Ferdinand, 613 24th
 Van Rhienan, Wm., 3418 Chestnut
 Vogel's F. L. Sons, 508 State
 *Wabiszewski, Sylvester, 880 22d av
 Wall Schlaeger, Hy., Jr., 1411 Cedar
 Weber, P. W., West Allis
 Weis, Wm., 272 12th
 *Wenzel, August, 1234 2d
 *Werner, Fred., 346 18th
 Wierdsma, Ebbel F., 587 21st
 †Wilk Building Co., 711 37th
 *Wilke, Louis (Large), 840 11th
 Williams, Wm. G., 352 Jackson
 *Winter, Ernst, 782 2d
 *Winter, Wm., 1029 2d
 Zellmer, Albert J., 905 24th
 *Zeltinger, William, 493 38th
 Ziberska, A., Hampton av
 Ziemann, Henry, 320 1st av
 †Ziemann, William, 345 1st av
 Zunker, William L., 3023 Mt. Vernon av
MINERAL POINT—Branger, Joseph
 Buckingham, Wm.
 *Curtis, Charles

Ellery Bros.
Enzenroth & Crowley
*Goldworthy, Cullen
*Tonkin, Benj.
Tricker, George
MONROE—†Bauman & Keister
Edelman, Eli
Evans, Thomas
*Honeywelle, J. D.
†Scherer, James
Stelmann, Jacob
NEENAH—Austin, Jas.
Christopherson, Hans
Kilto, D. A.
†Sindahl, Wm.
NEILLSVILLE—Fiebke, Fred.
NEW LONDON—Brill, John
*Freyruth, August
Johnson, J. V.
Wehber, A. A.
NEW RICHMOND—†Brown, Andrew
Farrell, Thos.
*Rosebrook, Hugh
OCONOMOWOC—†Plotow, Louis
W. E. Company
OCONTO—Forestall, C. H.
Scherer, Jacob
OSHKOSH—†Awarter, Frank, 153 Liberty
†Barber, A. H., Harrison st rd
Central Const. Co.
†Euler, John F., 375 Bowen
†Flour, Caspar
†Fluor Bros., 84 State
†Frank & Gill
†Frank, W. H., 81 Jefferson av
†Hedtke, Fred., 184 Warren
†Kitz, H. F., 151 N Park av
†Kutzerdorff, H., 24 Durfee
Lull, E. M., 358 6th
Mace, Ed., 79 Wright
†Mace, W. J., 80 Wright
†Mallory, J. E., 105 Frederick
†Mertz Bros., 282 13th
*Meyer & Domke, Builders' Ex
†Miller, A. F., 15 John
†Miller & Peterson, 15 Cleveland av
†Olson, Chris., 320 Elm
†Parsons & Sons, 9 Liberty
†Pitz, August, 215 Church
†Raycraft, Josc. T., 75 Main
†Thomas, Peter, 91 Wisconsin av
†Thon, Chas., 121 Otter
*Williamson, J. E., 307 Jackson
†Witt, Fred. E., 680 Main
PLATTEVILLE—*Batchelor, Wm.
*Bucholz, Dietrich
*Carl, Jacob
Gordell, Frank
*Meyer, Dietrich
*Nagle, Henry
†Owdyn & Wallace
†Rose, J. M. & Son
*Spencer, S. B.
Thompson, Samuel
PLYMOUTH—†Hildebrandt, Joseph
†Magee, William
*Radloff, Franz
*Runge, Wm.
*Schwalenberg, Henry
†Wacker, Frank
PORTAGE—Brodie, Harry G.
*Kutzke Bros.
Prehn, W. L.
PORT WASHINGTON—Berners, Hubert
*Eva, Peter
Large, Wm.
Stone, E. B.
*Ubhink, Joseph
PRAIRIE DU CHIEN—Cardin, Joseph
Clark, James
Ingles, Joseph
Ingles, William
Zeil, William
RACINE—*Allen & Clunle (Brick & Stone)
*Christianson, Christ
Coonley, Geo., Jr.
Coonley, William H.
Dorning, John
†Edwards, Hugh R.
*Evans, John M.
*George, B. Foster, 1740 Park av
*Goetz, Gabriel
*Goetz, John
†Harcus, Adam H.
Hay, Thos.
†Hocking, Josiah
†Holm Bros.
*Hughes, Ellis
Jacobson, A.
†Jenks, Edgar A.

†Jensen Bros., 1835 W 6th
Jones, Llewelyn S.
Jorgenson, M. E.
*Larsen, John
†May, John
†Menden, Hubert
Menden, Theodore
*Nelson & Co.
Orme, Robert
Owens, John
*Rapp, Edward W.
*Rowan, John
*Seater, George
Sherwood, Jas. W.
†Smith, Charles D.
†Svenvig, Chris., West st
Tharinger, L.
Thompson, Thomas E.
†Williams, W. L.
Walker, Willard J.
*Whalen, Jerry
REEDSBURG—†Church Building Co.
*Fauteck, Henry
Friede, Wm.
*Gade, Wm.
Kreuger, Wm.
RHINELANDER—Bibby, Frank
Chlla & Thielen
McCardell, John
†McRae, Morris
*Smith, Samuel
Van Voorhess & Newsome
RICE LAKE—*Lathrop, J. C.
†Mercier & Gay
RICHLAND CENTER—Brewer, Fred.
RIPON—Allen, H. J.
Bumby, John C.
Farvour, Frank P.
Howe, A. S.
Kelley, Charles
Kohl & Son
†Radway, M. C.
Toholt, E.
Wallschlager, John
RIVER FALLS—Burnett, Chas.
Dunn, James
†Turnquist, Louis
SHEBOYGAN—*Brockmann, Fred., Sr., 1604
Deraske, Aug. Block ct
†Ehrenreiter & Hildebrand, 1215 Erie
†Geih, Frank, 11439 S 9th
Grasse, Chas.
†Hammes, Jos., 1409 Lincoln av
Hardt, Otto, 1710 Illinois av
*Horn, Wm., 1510 Michigan av
†Hildebrand, Ernst, 1118 N 9th
Hildebrand, Jacob, 1636 N 10th
Kramer, August, Sr.
Lutze, Chas., 1434 New Jersey av
†Mallman, Wm. F., 934 Wisconsin av
Meyer, H. E. & E.
†Quasius, George H., 1521 Huron av
*Rathshurg, Fred.
*Schneidewind, Fred., 1630 Kentucky av
Schuetz, Guenther & Son, 918 Ontario av
Stuhenrauch & Grasse, 1015 S 15th
†Weeks, Wm. (Large), 714 Ontario av
*Wieland, Adolph, 1940 N 15th
Wiemann, John, 1711 Garten ct
†Zelle, Christian & Son, 1220 Michigan av
SOUTH MILWAUKEE—*Petzold, Edward
Tetzlaff & Thieme
Whalen, Joseph
SPARTA—Davenport, H. D.
Dickinson, J. A.
Dygert, Thomas
Hubbell, D. E.
Hubbell, W. N.
Leonard, M. A.
Ouellette, Didier
*Summerfield, John
STEVENS POINT—Haller, Frederick
*Jensen, Andrew P.
Olin, M. T.
†Packard, Charles H.
*Parker, J. T.
Parmenter, Walter
*Prell, Henry
*Spalenka, John
*Ule, W. E.
†Woodworth, Newell E.
STOUGHTON—Hill, Fred.
†Ovren, Aug. E. (Large)
STURGEON BAY—*Cosme, Ferdinand
Donlinger, Peter
*Propson, Christopher
Russell, E. L.
Sickels, C. E.
*Weskel, Henry

SUPERIOR—Barnett & Record Co.
†Berg & Olson
†Finney, G. K., 5928 Banks av
Haugner, M. O.
Joos & Osmundson
Larson, Daniel
McFarlin, G. W.
†McKenzie & Arris, 1708 Winter
Maynard, J. B.
*Nordlof, N. J.
Norton, Wm. R.
Nyquist, Matt.
Oakes, S. P.
*Schmidt Bros. (General)
Scott, C. S.
Shunn, W. H.
Smith, W. W.
Zachau, August
TOMAH—Benjamin, Frank
*Daherr, E. A.
Hartwell, Frank
Nechuta, Charles
*Smith, H. H.
*Street, Henry
TWO RIVERS—Grimmer & Sell
Radzinsky, Andrew
Wolf, Frank L.
WASHBURN—*Palm, Nels
Sheridan, J. A.
*Siverson, Ole
Swain, A. W.
WATERTOWN—†Behlke, Ferd.
*Cowan, Frank
*Guetzlaff Bros.
Huenefeld, Carl
Jaeger, F. C.
*Kunitz, Louis
*McLaughlin, Felix
Riebe, William
Belmann, Ernest
Rohde & Zickert
Schaatz, John
Strassburg, August
Willenbockel, Henry
WAUKESHA—Advance Const. Co.
*Leimbach, Frank
Meyer, Mike
Reid, C. S.
Smith, F. S.
WAUPACA—*Buck, Orville
Jensen, Simon
Knudson, H. P.
†Nelson, A. G. Lumber Co.
Nelson, C. W.
WAUPUN—Beckman, John
*Green, Thomas
Howard, Jno.
WAUSAU—Anderes, Jno.
Dean, W. H. H.
*Goebel, Henry
*Lotz, Carl
Hapke & Nutter
†Miller, John
WAUWATOSA—Littmar, Christ
Mueller, Jno. A.
Sparleder, F. H.
WEST BEND—†Baed, Christian
Loebe, Benjamin
Ohermeyer, George
Zettel, Joseph
WHITEWATER—Bonnert, E.
Jansen, Kund
*Martin, Charles
Pollock, O. J.
Waite, C. M.

WYOMING.

CHEYENNE—Allison & Hastings
Andre, F. H.
†Barstow & McMullen
†Bradley, R. (Large)
†Connor & Co.
†Gilmore & Russell
†Grimes, J. R.
†Johnson, C.
Keefe, M. P.
†McAdam, A.
†Sage, B. H.
†Sell, Geo. S.
†Warren, R. W.
EVANSTON—†Anderson, A. W.
†Bergstrom & Carruth
†Fiero, J. G.
Small, M. E.

**When writing to firms listed
in this book please mention
HENDRICKS'
COMMERCIAL REGISTER**

KEMMERER—Hibbs, C. H.
Smith, Victor
LARAMIE—Allyn, J. I.
Beaudoin, Wm.
Bramel, Bert.
May, Jacob
†Rogers, Oscar
RAWLINS—†Daley & Dow
†Larsen, Hy.
ROCK SPRINGS—†Biscom, George
Rock Springs Lumber Co.
SHERIDAN—†Blackbourn, J. J.
Ferguson & Pearson
Johnson & Jacobs
Moulton & Austin
Shores & Sollars
†Stewart, Donald
Trover & Pike
Wunderlich, F. E.

Builders (Cotton Mill)

Cramer, Stuart W., Charlotte, N. C.
Fosburgh Co., The (Mfg. & Power Plants, Railroad Buildings, Heavy Masonry & Concrete),
6 Beacon, Boston, Mass.

Builders' Cast Iron Work

(See Firms in Iron, Architectural & Ornamental, marked with a Star (*); also Machinists & Founders)

Builders' Hardware

(See Hardware Mfrs.)

Builders' Iron Work

(See Iron, Arch'l & Ornamental; also Iron Railings & Fences; also Iron Stair Builders; also Steel Structural Works.)

Builders' Materials & Specialties (Mfrs.' Agents)

Black, John H. (Mfrs.' Agts.), Builders' Exchange, Buffalo, N. Y.
Booth, J. B. & Co., 225 1st Av, Pittsburg, Pa.
Builders' Material Supply Co., Postal Telegraph bldg, Kansas City, Mo.
Camp, Te Roller (Mfrs.' Agent), Seattle, Wash.
Capron, Albert J., Portland, Ore.
Carson, Wm. T., Beaufort la & Courtland, Baltimore, Md.
Cotter, Wm. T., Jacksonville, Fla.
Crowe, F. T. & Co., Seattle, Wash., & Tacoma, Wash.
Davis, Geo. H., Jr., 313 Colonial av, Norfolk, Va.
FLEMING & CO., 123 Liberty, N. Y.
(See adv. index, end of book)
Fryer, David E. & Co. (Mfrs.' Agents, New York blk, Seattle, Wash.
General Supply Co., Milwaukee, Wis.
Hewson, S. J. Co., 10 N 3d, Minneapolis, Minn.
Houston Bros. Co., 32d & P. R. R., Pittsburg, Pa.
Kriegshaber, V. H. (Mfrs.' Agent), 6 N Forsyth, Atlanta, Ga.
McKenry, Chas. E., 320 4th av, Pittsburg, Pa.
Laws, Geo. H. & Co., 156 E 3d, St. Paul, Minn.
Moore-Coney Co., The, Union Trust bldg, Cincinnati, O.
National Building Supply Co., 418 E Pratt, Baltimore, Md.
Paine & Nixon Co., Duluth, Minn.
Paragon Plaster Co., Syracuse, N. Y.
Richardson, H. H. (Contractors' Supplies of all Kinds), Jacksonville, Fla.
Smith & Young, 723 Market, San Francisco, Cal.
THOMAS, E. H. (Mfrs. Agent), 1123 B'way, New York
Thomson & Dunlop, 226 W Michigan, Duluth, Minn.
Thorn Cement Co., 112 Church, Buffalo, N. Y.
Tyler, Owen (Mfrs. Agent), Tyler bldg, Louisville, Ky.
Waterhouse & Price Co., 29 New Montgomery, San Francisco, Cal.
Rattenbury & Davis, El Paso, Texas
Wood Glass Co., 226 N Salina, Syracuse, N. Y.

Builders' Mill Work

(See Interior Hardwood Work)

Building Blocks

(See Blocks, Hollow Building.)

*Building-Cleaning (Compressed Air)

ORGAN POWER CO. ("Spencer"),
Hartford, Conn. (See adv. index, end of book)

GENERAL COMPRESSED AIR & Vacuum Machinery Co., 4469 Olive, St. Louis, Mo. (See adv. index, end of book)
VACUUM CLEANER CO., 427 5th av,
New York. (See adv. index, end of book)

*Building Directories (Changeable)

TABLET & TICKET CO., 87 Franklin, Chicago, Ill., & 381 B'way, New York,
(See adv. index, end of book)

Building Materials (Second Hand)

American Wrecking Co., 2507 Bremen av, St. Louis, Mo.
Baker, Henry D., Av B & 19th, New York
Buckeye Wrecking & Salvage Co., 8th & Harriett, Cincinnati, O.
Buffalo House Wrecking & Salvage Co., 1542 Michigan, Buffalo, N. Y.
Candee & Krekeler, 417 Grand, Brooklyn, N. Y.
Elston, A. A. & Co., 166 Devonshire, Boston, Mass.
Greene, Byron W., Jr., 309 Av B, N. Y.
Jump, Geo. W. & Co., 312 7th av, New York
Kane, Edw. J., 260 Front, New York
Lampert & Horn, 333 E 108th, New York
Lash, Aug. F. Co., 29 D. st., Boston Mass.
Missouri Wrecking Co., Jefferson av & O'Fallon, St. Louis, Mo.
Reeber, Jos. & Co., 527 Flushing av, Brooklyn, N. Y.
Reebers, J. Sons, 3d av & 140th, New York
Seagriff, F. W., Jr., & Co., 304 Av B, N. Y.
Southard, Chas. H., 59 9th av, N. Y.
Van Keuren & Son, Grand & Prior, Jersey City, N. J., & Harrison, N. J.
World's Fair Wrecking Co., Richmond & Horne, Cincinnati, O.

Building Papers

(See also Paper, Roofing & Sheathing.)

Star (*) represents Manufacturers or Mills.
American Insulating Material Mfg. Co. (Granite Rock Wool), Alexandria, Ind.
*American Straw Board Co., Old Colony bldg, Chicago, Ill.
Armitage Mfg. Co., 3200 Williamsburg av, Richmond, Va.
*Bardeen Paper Co., Otsego, Mich.
*Barrett Mfg. Co., Land Title bldg, Phila., Pa.
Beaver Mfg. Co., 228 Perry, Buffalo, N. Y.
*Bird, F. W. & Son ("Neponset" Waterproof), East Walpole, Mass.
CABOT, SAMUEL, 141 Milk, Boston,
& 28 Dearborn av, Chicago. (See adv. index and branch offices, end of book)
Chapman & Soden (Rosin Sized), 410 Atlantic av, Boston, Mass.
Chatfield Paper Co., New Haven, Conn.
Chatfield & Woods Co. (Mfrs.), 347 W 4th, Cincinnati, O.
CHICAGO MILL WORK SUPPLY CO.,
cor. 22d & Sangamon, Chicago, Ill. (See adv. index, end of book)
Cleveland Paper Co., Cleveland, O.
Coal Tar Product Co., Smith & Creamer, B'klyn, N. Y., & 77 Maiden Lane, N. Y.
*Coons, Fred M., Rockton, Ill.
De Ronde, Frank S. Co., 46 Cliff, New York
*Diem & Wing Paper Co., 8th & Eggleston av, Cincinnati, O.
EHRET MAGNESIA MFG. CO., Land
Title bldg, Phila., Pa. (See adv. index & branch offices, end of book)
Ford Mfg. Co., 109 W Washington, Chicago, Ill., & Vandalla, Ill.
Fox Paper Co., Lockland, O.
FRENCH, SAMUEL H. & CO. (dealers), 4th and Callowhill, Philadelphia, Pa.
(See adv. index, end of book)
Garrett, C. S. & Son Co., 20 S Marshall, Phila., Pa.
Hewitt, C. B. & Bros. (dealers), 48 Beekman, N. Y.
Holten & Collins Co., 509 Ludlow, Phila., Pa.

*House, F. A. & Co., Haddam Neck, Conn.
*Ithaca Paper Co., Ithaca, N. Y.
Kingsley Paper Co., 325 St. Clair, Cleveland, O.
Kingston's, Wm. Son, Little Falls, N. Y.
*Lang, John Paper Co. (Inc.), 2401 Vine, Phila., Pa.

LEHON CO., W 43rd & Lincoln, Chicago, Ill. (See adv. index, end of book)
*Lewis Roofing Co., Rock Island, Ill.

*Lewis, F. R. Mfg. Co., Flint, Mich.
Libby & Williams Paper Co., 419 N 2d, St. Louis, Mo.

*Lincoln, L. & Co., North Dighton, Mass.
*Lockport Paper Co., Lockport, N. Y.

*Lydall & Foulds Paper Co., Manchester, Conn.
*Mable, R. R. Roofing Co., 635 W 47th, New York

Manahan Moth Paper Co., 370 Pearl, New York
*Mullen Bros. Paper Co., St. Joseph, Mich.

MUNN-PRICE CO. ("Diamond P" Waterproof), 413 W. B'way, New York. (See adv. index, end of book)
Munroe Felt & Paper Co., 77 Summer, Boston, Mass.

National Coal Tar Co., 17 Battery pl, New York
*Nelson Paper Co., Minneapolis, Minn.

Paraffine Paint Co., 24 2d, San Francisco, Cal.
Pioneer Roll Paper Co., 380 S Los Angeles, Los Angeles, Cal.

*Schmidt & Ault Paper Co., York, Pa.
*Single, Jno. Paper Co., Syracuse, N. Y.

Standard Paint Co., 100 William, N. Y.
Stelwagon, Mfg. Co., 826 Schuykill av, Phila., Pa.

Stewart, W. H. Mfg. Co., 81 Fulton, N. Y.
Swan, A. F. Co., 17 Battery pl, New York

Tarentum Paper Mills, 1019 Liberty av, Pittsburg, Pa.
Warren Chemical & Mfg. Co., 17 Battery pl, New York

***WATSON, H. F. CO., Erie, Pa. (See**
adv. index & branch offices, end of book)
*West Jersey Paper Mfg. Co., Elm & Front, Camden, N. J.

*York Haven Paper Co., York Haven, Pa. & 11 B'way, N. Y.
*Young, Jos. W., Bentley Springs, Md.

Building Sheathing (Asbestos)

Alliance Asbestos Mfg. Co., Alliance, O.
Asbestos Felting Works, 79 Maiden la, New York
Carey, Philip Mfg. Co., Lockland, O.
Chicago Fire Proof Covering Co., 18 N Canal, Chicago, Ill.

EHRET MAGNESIA MFG. CO., Land
Title bldg., Phila., Pa. (See adv. index, and branch offices, end of book)

Gilmour, Robert M. Mfg. Co., 105 John, New York
Johns, H. W.-Manville Co., 100 William, New York

Keasbey & Mattison Co., Main Office & Works: Ambler, Pa.
***MILWAUKEE CORRUGATING CO.,**
Milwaukee, Wis. (See adv. index, end of book)

Standard Pipe Covering Co., 3748 E 71 st, Cleveland, O.

WATSON, H. F. CO., Erie, Pa. (See
adv. index & branch offices, end of book)

Building Sheathing (Felt)

(See also Felts, Roofing.)

Barrett Mfg. Co. (Red Rosin Sized, etc.), Land Title bldg, Phila., Pa.

Diem & Wing Paper Co., 8th & Eggleston av, Cincinnati, O.

Feld & White, 116 Nassau, New York, & Boonton, N. J.

Hydrex Felt & Engineering Co., 120 Liberty, New York

Keystone Hair Insulator Co. (Hair Felt), 170 Spring Garden av, Allegheny, Pa.

New England Felt Roofing Works, 18 Post Office sq, Boston, Mass.

Single, Jno. Paper Co., Syracuse, N. Y.

Standard Pipe Covering Co., 70 Marcelline av, Cleveland, O.

Stewart, W. H. Mfg. Co., 81 Fulton, New York
Union Fibre Co., Winona, Minn.

WATSON, H. F. CO., Erie, Pa. (See
adv. index & branch offices, end of book)

*Building Sheathing Quilt (Asbestos)

CABOT, SAMUEL, 141 Milk, Boston, Mass., & 28 Dearborn av, Chicago, Ill. (See adv. index, and branch offices, end of book)

*Building Sheathing Quilt (Cabot's)

CABOT, SAMUEL, 141 Milk, Boston, Mass., & 28 Dearborn av, Chicago, Ill. (See adv. index and branch offices, end of book)

Building Ventilation

(See Ventilating Apparatus)

Bulbs (Incandescent Lamp)

Clark, Jas., Jr., & Co. ("Hylo" Turn Down), Louisville, Ky.

Corning Glass Co., Corning, N. Y.
Fostoria Glass Specialty Co., Fostoria, O.
Libbey Glass Co., Ash & W. & L. E. Ry, Toledo, O.

Lippincott Glass Co., Alexandria, Ind.
Fairpoint Corporation, New Bedford, Mass.
Phoenix Glass Co., Pittsburg, Pa., & 13 Murray, New York

Wagner Glass Works, 965 E 132d, New York

Bulldozers

(See Bending Machines.)

*Bulletins for Office & Loft Buildings (Changeable)

TABLET & TICKET CO., 87 Franklin, Chicago, Ill., & 381 B'way, New York. (See adv. index, end of book)

Bumpers (Automobile)

Turner Brass Works ("Harroun"), Chicago, Ill.

Bunchers (Asparagus)

Deer, Henry A., Phila., Pa.
Shangle, Jno. R., Hightstown, N. J.

Bung Mfrs.

(See Plugs, Wood)

Bung Starters

Boston & Lockport Brass Co., Boston, Mass.
Doscher Plane & Tool Co., Saugatuck, Conn.
Freeman Mfg. Co., Kalkaska, Mich.
Piqua Handle & Mfg. Co., Piqua, O.
Redlich Mfg. Co., 2 Oak, Chicago, Ill.
Sandusky Tool Co., Sandusky, O.
Sommer's, Jno. Sons, Newark, N. J.
Union Hardware Co., Torrington, Conn.
Wilson, F. & Co., Chicago, Ill.

Bung Tins for Barrels

Acme Flexible Clasp Co., 2834 Archer av, Chicago, Ill.

Bunting Mfrs.

Horstmann, Wm. H. Co., Phila., Pa.
New England Bunting Co., Lowell, Mass.
United States Bunting Co., Lowell, Mass.

Buoys (Gas)

Safety Car Heating & Lighting Co. ("Pintsch"), 160 B'way, New York

Buoys (Life)

(See Life Preservers.)

Buoys (Mooring)

Armstrong Cork Co., Pittsburg, Pa.
Drein, Thos. & Sons, Wilmington, Del.
Lane & De Groot Co., Long Island City, N. Y.
Marine Mfg. & Supply Co., 158 South, New York

Burial Cases & Vaults (Slate)

American Slate Co., Bangor, Pa.
Bangor Crescent Slate Co., Bangor, Pa.
Bangor Slate Co., Bangor, Pa.
Bangor Structural Slate Co., Bangor, Pa.
East Bangor Consolidated Slate Co., East Bangor, Pa.
Excelsior Slate Co., Pen Argyle, Pa.

Hahn, Granville, Walnutport, Pa.
Hercules Slate Co., Bangor, Pa.
Monson Maine Slate Co., 113 Devonshire, Boston, Mass.

National Slate Vault Co., Bangor, Pa.
Peerless Slate Co., Delta, Pa.
Penna Structural Slate Co., Easton, Pa.
Penrhyn Slate Co., 493 E. 138th, New York
Vermont Unfading Green Slate Co., Fair Haven, Vt.
Williams Slate Co., Arvon, Va.

Burial Vaults & Grave Covers (Stone)

Southern Ohio Vault Co., McDermott, Ohio.

Burlaps

Bailey, Christopher & Son, 320 Market, Phila., Pa.
Bailey, Jno. T. & Co., Stephen Girard bldg, Phila., Pa.
California Jute Mill Co., 3 California, San Francisco, Cal.
Chase, H. & L. (Importers), 233 State, Boston, Mass.
Cheever, John S. (Mfrs. & Dealer), 66 Battery March, Boston, Mass.
Chelsea Fibre Mills, 33 Union sq, New York.
Clapp, H. D. B. & Co. (Waste), 116 Produce av, Philadelphia, Pa.
Davis, T. L. & Co. (Dealers), 110 State Boston, Mass.
Delta Bag Co., New Orleans, La.
Gulf Bag Co., New Orleans, La.
Haskell, Edw. H. (Dealer), 176 Federal, Boston, Mass.
Hoffman-Corr Mfg. Co., 55 White, New York
Meute & Co., Board of Trade bldg, New Orleans, La.
Milwaukee Bag Co., Milwaukee, Wis.
Richter Mfg. Co. (Plain, Decorated, etc.), Tenafly, N. J.
Stoddard, Haeserick & Richards Co. (Importers), 152 Congress, Boston, Mass.
Thompson's, Sam., Nophen & Co. (Importers), 142 Duane, New York City

Burners (Acetylene Gas)

Acetylene Apparatus Mfg. Co., 157 Michigan av, Chicago, Ill.
Acetylene Apparatus Mfg. Co. ("Standard"), 2331 Ilion av, Minneapolis, Minn.
Acetylene Supply Co., 510 Temple court, Minneapolis, Minn.
Acetylene Gas Illuminating Co., 105 Walker, N. Y.
American Acetylene Burner Co. ("Shaffer," "Gem," "Queen," and "Multiple," all lava tips), Hoosick Falls, N. Y.
American Brass & Copper Co., 243 Canal, N. Y.
American Lava Co. ("Alco"), Chattanooga, Tenn.
Brown, F. P. & Co., 45 N 6th, Philadelphia, Pa.
Carroll, J. B. ("Hahn," "Columbia," "Anto"), 92 Illinois, Chicago, Ill.
Clayton & Lambert Mfg. Co., Detroit, Mich.
Colt, J. B. Co., 21 Barclay, N. Y.
Crane, W. M. Co. ("Import," "Bray"), 1131 Broadway, N. Y.
Crescent Burner Mfg. Co., Chattanooga, Tenn.
Daylight Acetylene Gas Co. ("Starr"), Louisville, Ky.
Dietz, R. E. Co., 61 Laight, N. Y. City.
Drake Acetylene Apparatus Co., 37 Hathaway, Cleveland, O.
Eagle Generator Co. ("Eagle"), 1530 Pine, St. Louis, Mo.
Economic Acetylene Burner Co. ("Economic"), Toronto, Can.
Gas Tip & Self Lighter Co., 149 Church, New York
Gleason, E. P. Mfg. Co., 37 Murray, New York
Iden & Co., 40 University Pl., N. Y.
Incandescent Burner Co., 665 Fulton, Brooklyn, N. Y.
Kirchberger, M. & Co., ("Von Schwartz" Perfection "Crescent"), 44 Park Pl., N. Y.
Lewis Gas Machine Mfg. Co., Fort Worth, Tex.
National Lighting & Heating Co., Cleveland, O.
North Carolina Talc & Mining Co. (Burner Blanks), Hewitt, N. C.
Starr Acetylene Gas Burner Co., Chattanooga, Tenn.
State Line Mfg. Co. ("Wonder," "Acme," "New Century," "Meteor"), Chattanooga, Tenn.

Steward, D. M. Mfg. Co. ("E. H."), Chattanooga, Tenn.
United Metal Mfg. Co., 525 W 26th, New York
Williamson, R. & Co., 88 W Washington, Chicago, Ill.
WILSON, F. CORTEZ & CO., 239 Lake, Chicago, Ill. (See adv. index, end of book)

Burners (Automobile)

(See Burners, Kerosene, Automobile; also Burners, Gasoline, Automobile)

Burners (Brazing & Blast)

Gilbert & Barker Mfg. Co. ("Springfield"), Springfield, Mass.
Turner Brass Works, 66 Michigan, Chicago, Ill.

*Burners (Coal Dust)

BARTLETT, C. O. & SNOW CO., ("Triumph"), Cleveland, O. (See adv. index, end of book)

Burners (Electric Gas Lighting)

Bogart, A. L. Co. ("Bartholdi" Automatic), 123 Liberty, New York
Boston Electric Co. ("Peerless"), 29 Harrison av, Boston, Mass.
Clark Bros., Belmont, N. Y.
Cleverly Electrical Works, 17 N. 7th st., Phila. Pa.
Electrical Appliance Co., Waterbury, Conn.
Electric Goods Mfg. Co. (Automatic Pendant), 115 Purchase, Boston, Mass.
Holtzer-Cabot Electric Co., Brookline, Mass.
Manhattan Electrical Supply Co., 17 Park Pl, N. Y.
Marscall, A. Mfg. Co., Little Falls, N. Y.
Parke, Jno. Y. & Co. ("Jypeo"), 728 Cherry, Phila., Pa.
Roche, Wm. Dry Battery Co. (Roche), 42 W. B'way, New York
Rousseau Mfg. Co., 310 Mott av, New York
Vallee Bros. Electric Co., 816 Arch, Phila., Pa.
Webb Gas Lighter Co. ("Webb"), Columbus, O.

Burners (Fuel Gas)

Combustion Utilities Co. (Brick, Cement & Lime), 60 Wall, New York
Gilbert & Barker Mfg. Co. ("Springfield" Process for Burning Fuel Oil Under Low Pressure), Springfield, Mass.
Parson Mfg. Co. ("Parson"), 299 B'way, New York
South Pittsburg Iron Works ("Tremaine" Sectional), Claysville, Pa.

Burners (Fuel Oil)

Boston Crude Oil Burner Co., Boston, Mass.
Cox & Sons Co., 215 Race, Phila., Pa.
Gilbert & Barker Mfg. Co. ("Springfield" Process for Burning Fuel Oil Under Low Pressure), Springfield, Mass.
Hammel Oil Burner Co., Los Angeles, Cal.
National Equipment Co. (Inc.) ("Branch" Kerosene, Crude Oil or Distillate, 211 N 7th, St. Louis, Mo.
National Supply Co., 315 Dearborn, Chicago, Ill.
Parson Mfg. Co. ("Parson"), 299 B'way, New York
PETROLEUM IRON WORKS CO. ("The Gem," for Crude Oil Under Boilers), Washington, Pa., & Farmers' Bk. bldg, Pittsburg, Pa. (See adv. index, end of book.)
Rockwell Engineering Co. (for Crude Oil Under Boilers), 26 Cortland, N. Y.
Rogers, Jno. M., Boat, Gauge & Drill Works, Gloucester City, N. J.
Tate, Jones & Co., Inc. ("Kirkwood" for Boilers, Locomotives, Furnaces, Forges, etc.), Empire bldg, Pittsburg, Pa.

Burners (Furnace Gas)

Standard Heating & Radiator Co. ("Standard" for Hot Air, Steam & Hot Water), 220 Penn av, Pittsburg, Pa.

Burners (Gas, Automatic)

National Safety Gas Burner Co. (Safety), Providence, R. I.

*Burners (Gas, Blast Furnace)

HARTMAN CO., 1231 N. Front, Phila., Pa. (See adv. index, end of book)

Burners (Gas, Self-Lighting)

Gleason, E. P. Mfg. Co. ("Gem," "Economic" & "Matchless"), 37 Murray, New York

Burners (Gasoline)

(See Burners, Gasoline, various kinds)

Burners (Gasoline, Automobile)

Auto Supply Co., 1662 B'way, New York
Carroll, J. B., 92 Illinois, Chicago, Ill.
Dangler Stove & Mfg. Co., Cleveland, O.
Forg, Peter, Sommerville, Mass.
Janney, Steinmetz & Co., Phila., Pa.
Kelly Handle Bar Co., Perkins av & C. & P. R. R., Cleveland, O.
Locke Regulator Co., Salem, Mass.
Tonkin Boiler Co., Oswego, N. Y.
Walker, E. C. Co. ("Lightning"), New Albany, Ind.

Burners (Gasoline Engine)

Turner Brass Works, 66 Michigan, Chicago, Ill.

Burners (Gasoline Gas)

Best Light Co., Canton, O.
Bystrom Gas Lamp Co., 91 Kinzie, Chicago, Ill.
Flory, Louis, 59 N Clinton, Chicago, Ill.
Gilbert & Barker Mfg. Co., Springfield, Mass.
Imperial Gas Machine Co., 32 Park Pl., N. Y.
Incandescent Light & Stove Co. ("Stubbs"), 421 Pearl, Cincinnati, O.
Merkel, Herman, 511 Elm, St. Louis, Mo.
Planet Mfg. Co., 203 Pine, St. Louis, Mo.
Providence Gas Burner Co., Providence, R. I.
Sun Vapor Street Light Co., Canton, O.
Tirrell Gas Machine Lighting Co., 75 Fulton, New York
Turner Brass Works, 69 N Franklin, Chicago, Ill.

Burners (Hydro-Carbon)

BEST, W. N. AMERICAN CALORIFIC Co., 11 B'way, New York. (See adv. index, end of book)
Braun, F. W. Co. ("Cary"), 18 Spear, San Francisco, Cal.
Clayton & Lambert Mfg. Co., Trombly av and Beaubien, Detroit, Mich.
Gilbert & Barker Mfg. Co., Springfield, Mass.
Gleason-Peters Air Pump Co. ("Peters," for Steam or Air, High & Low Pressure), 181 Mercer, New York

Burners (Incandescent Gas)

American Incandescent Lamp Co., 26 Cortlandt, New York
Crane, W. M. Co. ("Gem by Poiss"), 1133 B'way, N. Y.
Cremo Light Co., 530 E 80th, New York
Eagle Water Heater Co. ("Eagle"), 128 6th av, New York
Eureka Incandescent Lamp Co., 244 B'way, Brooklyn, N. Y.
Gilbert & Barker Mfg. Co. ("Springfield"), Springfield, Mass.
Hipwell Mfg. Co., Allegheny, Pa.
Imperial Gas Machine Co., 32 Park pl, New York
Incandescent Burner Co., 665 Fulton, Brooklyn, N. Y.
Kern Burner Co., 88 Warren, New York.
Liberty Gas Light Co., 1234 N. High, Columbus, O.
Manhattan Brass Co., 338 E. 28th, N. Y.
Miller, Edw. & Co., Meriden, Conn.
Momand, Sherman S., 305 Columbus av, New York
Pittsburg Lamp, Brass & Glass Co., Allegheny, Pa.
Plume & Atwood Mfg. Co., Waterbury, Conn.
Stamford Gas Stove Co., Stamford, Conn.
Steward, D. M. Mfg. Co. ("E. H."), Chattanooga, Tenn.
Turner Brass Works, 66 Michigan, Chicago, Ill.
Waterbury Brass Goods Corporation, Waterbury, Conn.
Welsbach Co. ("Universal," "Standard" & "Consol"), 922 Chestnut, Phila., Pa. Works: Gloucester, N. J.
Willton Gas Light Co., Columbia bldg, Columbus, O.

***Burners (Japanning or Baking)**

AMERICAN GAS FURNACE CO. (Gas), 23 John, New York, & Elizabeth, N. J. (See adv. index, end of book)

Burners (Kerosene, Automobile)

Barton Boiler Co. ("Burnell"), 2427 Calumet av, Chicago, Ill.
National Equipment Co. (Inc.) ("Branch" for Steam Automobiles), 211 N 7th, St. Louis, Mo.
National Oil Heating Co., Melrose, Mass.
Ofeldt, F. W. & Sons, Nyack, N. Y.
Steam Carriage Boiler Co., Oswego, N. Y.
Sunset Automobile Co., 1814 Market, San Francisco, Cal.
Walker, E. C. Co., New Albany, Ind.

Burners (Kerosene Oil)

Miller, Edw. & Co., Meriden, Conn.
Plume & Atwood Mfg. Co., Waterbury, Conn.
Turner Brass Works, 66 Michigan, Chicago, Ill.

Burners (Lamp)

Best Light Co., Canton, O.
Bridgeport Brass Co., New York
Miller, Edw. & Co., Meriden, Conn.
Plume & Atwood Mfg. Co., Waterbury, Conn.
Waterbury Brass Goods Corporation, Waterbury, Conn.

Burners (Natural Gas)

American Stove Co., St. Louis, Mo., & 72 Lake, Chicago, Ill.
Brown, Frank P. & Co., 45 N 6th Phila., Pa.
Crane, W. M. Co. ("Gem Self Lighting"), 1133 B'way, N. Y.
Criterion Gas Stove Mfg. Co., 445 Greenwich, N. Y.
Dayton Pipe Coupling Co., Dayton, O.
De Leré, Jos. B., 132 Nassau, New York
Detroit Brass Works, 7th & M. C. R. R., Detroit, Mich.
Economy Gas Burner Co., Detroit, Mich.
Elk Heater Mfg. Co., Columbus, O.
Enterprise Foundry Co., Allegheny, Pa.
Gleason, E. P. Mfg. Co., 37 Murray, New York
Jesse-Snyder Co., Massillon, O.
Libbard, Geo. & Son, Wheeling, W. Va.
Hollands Mfg. Co., Erie, Pa.
Illinois Malleable Iron Co., 30 W. Monroe, Chicago, Ill.
Irby & Gilliland, Memphis, Tenn.
Johnson Machine Co., Uniontown, Pa.
Kern Burner Co., 88 Warren, New York.
Kraushaar Brass Mfg. Co., 510 Elm, St. Louis.
Lawson Mfg. Co., Homestead, Pa.
Lord, L. L. Co. ("Victor"), Meadville, Pa.
Love Mfg. Co., Corry, Pa.
McKenney & Waterbury, 181 Franklin, Boston, Mass.

Milwaukee Gas Stove Co., Milwaukee, Wis.
Minneapolis Gas Fixture Co., 802 Nicollet av, Minneapolis, Minn.
Nomand Light Co., 90 B'way, N. Y.
North Carolina Talc & Mining Co. (Burner Blanks), Hewitt, N. C.
Olin Stove Mfg. Co., Erie, Pa.
Ohio Brass & Iron Mfg. Co., Columbus, O.
Ohio Foundry Co. ("Allen," "I-X-L," for stoves, furnaces, fireplaces, water tanks, etc.), Dayton, O.
Oil Well Supply Co., Pittsburg, Pa.
Orchard Mfg. Co., 51 Frankfort, N. Y.
O'Reilly, M. J., Buffalo, N. Y.
Pittsburg Clay Mfg. Co., New Brighton, Pa.
Pittsburg Supply Co., Pittsburg, Pa.
Pittsburg Stove & Range Co., Pittsburg, Pa.
Plume & Atwood Mfg. Co., Waterbury, Conn.
Reineke, Wilson Co., Pittsburg, Pa.
Simpson Stove & Mfg. Co., 545 Liberty av, Pittsburg, Pa.
Stamford Gas Stove Co., Stamford, Conn.
Starr Acetylene Gas Burner Co., Chattanooga, Tenn.
State Line Mfg. Co., Chattanooga, Tenn.
Steward, D. M. Mfg. Co. ("E. H."), Chattanooga, Tenn.
Superior Mfg. Co., Allegheny, Pa.
Tallmage, M. F., Buffalo, N. Y.
Taylor, I. B., Buffalo, N. Y.
Toledo Gaslight & Coke Co., Toledo, O.
Union Oil & Gas Co. ("Allen"), Dayton, O.
Van Houten, E. J. S., 74 Park Pl., N. Y.
Vim Cycle & Hardware Co., 224 B'way, Buffalo, N. Y.

Wheeling Stove & Range Co., Wheeling, W. Va.
Williamson, R. & Co., 88 W Washington, Chicago, Ill.
Young, E. R. & Sons, Titusville, Pa.

Burners (Natural Gas Fuel)

Tate, Jones & Co. (Inc.) ("Klein," "Kirkwood" for Fuel Under Boilers and for Furnaces, Kilns, Dryers, Welding, etc.), Pittsburgh, Pa.

Burners (Pyrites & Sulphur)

American Coke & Gas Construction Co., 17 Battery pl, New York
BETHLEHEM FOUNDRY & MACHINE Co. (for Chemical Mfrs., etc.), South Bethlehem, Pa., & 149 B'way, New York.
(See adv. index, end of book)
Caroline Iron Works (for Chemical Mfrs.), 723 S Caroline, Baltimore, Md.
Gilchrist, Peter C., Charlotte, N. C.

Burners (Refuse)

Jackson & Church Co., Saginaw, Mich.
MacKinnon Mfg. Co., Bay City, Mich.
Muskegon Boiler Works, Muskegon, Mich.

Burners (Tar)

BEST, W. N. AMERICAN CALORIFIC Co., 11 B'way, New York. (See adv. index, end of book)
Parson Mfg. Co. ("Parson"), 299 B'way, New York

Burning Brands

Butler, A. G., 284 Pearl, New York
Everett, A. & Son (Movagie Copper Letter), Auburn, N. Y.
Illig & Hartmann, 211 Pine, St. Louis, Mo.
Murdock, Jas., Jr., Co., Opera pl, Cincinnati, O.
Ness, Geo. M., Jr., 61 Fulton, N. Y.
Northwestern Stamp Works, (also Shingle Brands), St. Paul, Minn.
Parker, T. M., Hartford, Conn.
Schwerdtle Stamp Co., Bridgeport, Conn.
Vulcan Electric Heating Co. ("Vulcan," Electric), 71 W. Jackson boul, Chicago, Ill.

Bushings

AMERICAN PULLEY CO. (Metal, to Fit Any Shaft), 29th & Bristol, Philadelphia, Pa. (See adv. index, end of book)
Belknap Mfg. Co. (Brass), Bridgeport, Conn.
Darling Pump & Mfg. Co., Ltd. (Brass), Williamsport, Pa.
Eaton, Cole & Burnham Co. (Brass, also Brass Hose, etc.), Bridgeport, Conn.
Edna Smelting & Refining Co. (Brass), 525 Reading rd, Cincinnati, O., & Monadnock blk, Chicago, Ill.
GENERAL ELECTRIC CO., Schenectady, N. Y., & 44 Broad, N. Y. (See adv. index & branch offices, end of book)
General Fire Extinguisher Co., Providence, R. I.
Graphite Lubricating Co. (Graphite & Bronze), Bound Brook, N. J.
Hamlin & Emery Brass Co. (Brass, "Flush & Hexagon"), 26 Island, Rox, Boston, Mass.
Holmes Fibre Graphite Mfg. Co. (Electrical), 5155 Wakefield, Gtn, Philadelphia, Pa.
Peru Electric Mfg. Co. (Battery), Peru, Ind.
Powell, Wm. Co., 2525 Spring Grove av., Cincinnati, O.
Scranton Button Co. (Incandescent Lamp), Scranton, Pa.
Steel City Electric Co. ("Star" Malleable Iron Trimmed), Pittsburg, Pa.
Union Elevator & Machine Co. (Self Lubricating), 144 Ontario, Chicago, Ill.
Western Tube Co. (For Pipe Fittings, etc.), Kewanee, Ill.

***Bushings ("Bard" Adjustable Pipe)**

ARMSTRONG MFG. CO., Bridgeport, Conn., & 139 Centre, New York. (See adv. index, end of book)

***Bushings (Bronze)**

BROWN, A. & F. CO., 25 Dey, New York. Works: Elizabethport, N. J. (See adv. index, end of book)

Bushings (Conduit)

Anderson, Albert & J. M. Mfg. Co., Boston, Mass.
CHASE-SHAWMUT CO. ("Shawmut"
 Outlet), Newburyport, Mass. (See adv. index, end of book)
 Condit Electrical Mfg. Co., 67 Batterymarch, Boston, Mass.
 Erickson Electrical Equipment Co., 280 Devonshire, Boston, Mass.
 Pass & Seymour, Solvay, N. Y.
 Steel City Electric Co. ("Fullmann" "Star" for ends of Electric Wire Conduits), Imperial Power bldg, Pittsburg, Pa.
 Thomas & Betts Co., 299 B'way, New York

Bushings (Hard Fibre)

(See Fibre Mfrs., Hard.)

***Bushings (Pipe)**

LUNKENHEIMER CO. (Brass), General
 Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

Bushings (Porcelain)

(See also Porcelain Specialties, Electrical, Mechanical, Etc.)

Electric Porcelain & Mfg. Co., Trenton, N. J.
 Pass & Seymour, Solvay, N. Y.

Bushings (Rawhide)

(See Gears, Rawhide.)

Bushings (Roller Bearing)

Duplex Roller Bushing Co., Belfast, Me.
 Hyatt Roller Bearing Co., Harrison, N. J.
 Jackson, J. S. & Son, Bath, Me.
 Torrey Roller Bushing Works, Bath, Me.

Bushings (Rubber)

(See Rubber Mfrs., Mechanical)

Bushings (Trolley Wheel)

Brill, J. G. Co., 62d & Woodland av, Phila., Pa.
 Eureka Tempered Copper Works, North East, Pa.
 Newell, J. F. & Co., Gardiner, Me.
 Torrey Roller Bushing Works, Bath, Me.

Butchers' Machinery & Supplies

(See Machinery.)

Butter Workers

(See Dairy Apparatus & Supplies)

Buttoners (Glove & Shoe)

Cassady-Fairbank Mfg. Co., 6106 Lasalle, Chicago, Ill.

Butts (Ball Bearing)

(See Hinges, Ball Bearing Butt)

Butts (Brass)

(See Hinge Mfrs., Butt, etc.)

Cabinet Work for Buildings

(See Interior Hardwood Work)

Cabinet Work (Metallic)

(See Bank & Office Fixtures, Metallic.)

Cabinets (Electrotype)

Hamilton Mfg. Co., Two Rivers, Wis.
 Leonard Mfg. Co., Grand Rapids, Mich.
 Tubbs Mfg. Co., Ludington, Mich.

Cabinets (Oil)

Bowser, S. F. & Co. (Roll Top), Fort Wayne, Ind.
 Perfection Oil Tank Co., Syracuse, N. Y.
 New York Oil Cabinet Co. ("Wiley"), 180 Cherry, New York
 Whitman & Barnes Mfg. Co., Chicago, Ill.
WILSON, F. CORTEZ & CO., 239
 Lake, Chicago, Ill. (See adv. index, end of book)

Cabinets (Toilet Paper)

A. P. W. Paper Co. ("The Onliwon"), Albany, N. Y.

Cabinets & Filing Cases (Metallic)

(See Filing Cabinets & Devices.)

***Cable Carriages**

BALANCED CABLE CRANE CO., THE,
 135 William, New York. (See adv. opp. last page of Index of Contents)
FLORY, S. MFG. CO. (and Fall
 Blocks), Bangor, Pa. (See adv. index, end of book)

Cable (Ignition)

Boston Insulated Wire & Cable Co., 182 Freeport, Boston, Mass.
 Champion, Albert Co., 541 Tremont, Boston, Mass.
 Goodson Electric Ignition Co. (Insulated Wire), 94 Point, Providence, R. I.
 Herz & Co., 203 Lafayette, New York
 Indiana Rubber & Insulated Wire Co., Jonesboro, Ind.
 Mosler, A. R. & Co., Inc., 163 W 29th, New York
 Packard Electric Co., Warren, O.
 Post & Lester Co., Hartford, Conn.
 Rnbay, Leon, 140 W 38th, New York
 Shain, Chas. D., 70 Murray, New York
 Spltdorf, C. F. ("Spltdorf"), 17 Vandewater, New York

***Cable Railways**

ROBINS CONVEYING BELT CO., 19
 Park row, New York. (See adv. index, end of hook)

Cables (Aerial)

(See Wire, Aerial, also Cableways, Wire Rope.)

Cables (Lead Covered)

American Electrical Works, Phillipsdale, R. I.
AMERICAN STEEL & WIRE CO.
 The Rookery, Chicago, Ill. (See adv. index & branch offices, end of book)
 Bishop Gutta Percha Co., 422 E. 25th, New York
BRIXEY, W. R. ("Kerite"), 203
 B'way, New York. (See adv. index, end of book)

Crescent Insulated Wire & Cable Co., Trenton, N. J.
 Hazard Mfg. Co., Wilkes-Barre, Pa., & 50 Dey, New York
 India Rubber & Gutta Percha Insulating Co., 15 Cortlandt, N. Y.
 Indiana Rubber & Insulated Wire Co., Jonesboro, Ind.
 Moore, Alfred F., 202 N 3d, Philadelphia, Pa.
 National Conduit & Cable Co., 41 Park row, New York
 National India Rubber Co., Bristol, R. I., & Providence, R. I.
 New York Insulated Wire Co., 114 Liberty, New York
OKONITE CO. (Ltd.), 253 B'way, New
 York. (See adv. index, end of book.)
 *Robertson, John & Co. (Incasing Only), 127 Water, Brooklyn, N. Y.
ROEBLING'S, JOHN A. SONS CO. of N.
 Y., 117 Liberty, New York. (See adv. index & branch offices, end of book)
 Safety Insulated Wire & Cable Co., 114 Liberty, New York
 Simplex Electrical Co., 110 State, Boston, Mass.
 Standard Underground Cable Co., Westinghouse bldg, Pittsburg, Pa.
 Western Electric Co., 259 S. Clinton, Chicago, Ill., & 37 Bethune, N. Y.
 Tatbam & Bros. (Incasing Only), 224 S 5th, Philadelphia, Pa., & 82 Beekman, New York

Cables (Rubber Covered)

(See Wire, Rubber Covered.)

Cables (Submarine)

American Electrical Works, Phillipsdale, R. I.
AMERICAN STEEL & WIRE CO.
 The Rookery, Chicago, Ill. (See adv. index & branch offices, end of book)
 Atlantic Insulated Wire & Cable Co., 120 Liberty, New York

Bishop Gutta Percha Co., 422 E 25th, New York
BRIXEY, W. R. ("Kerite"), 203
 B'way, New York. (See adv. index, end of book)

Crescent Insulated Wire & Cable Co., Trenton, N. J.

Eastern Electric Cable Co., 61 Hampshire, Boston, Mass.

Hazard Mfg. Co., Wilkes-Barre, Pa., & 50 Dey, New York

India Rubber & Gutta Percha Insulating Co., 15 Cortlandt, New York

Indiana Rubber & Insulated Wire Co. ("Paranite"), Jonesboro, Ind.

Moore, Alfred F., 200 N 3d, Phila., Pa.

National Conduit & Cable Co., 41 Park row, New York

National India Rubber Co., Bristol, R. I., & Providence, R. I.

OKONITE CO. (Ltd.), 253 B'way, New
 York. (See adv. index, end of book.)

ROEBLING'S, JOHN A. SONS CO. of N.
 Y., 117 Liberty, New York. (See adv. index & branch offices, end of book)

Safety Insulated Wire & Cable Co., 114 Liberty, N. Y.

Simplex Electrical Co., 110 State, Boston, Mass.

Standard Underground Cable Co., Westinghouse bldg, Pittsburg, Pa.

***Cables (Suspension Bridge)**

AMERICAN STEEL & WIRE CO.
 The Rookery, Chicago, Ill. (See adv. index & branch offices, end of book)
ROEBLING'S, JOHN A. SONS CO. of N.
 Y., 117 Liberty, New York. (See adv. index & branch offices, end of hook)

***Cables (Underground)**

BRIXEY, W. R. ("Kerite"), 203
 B'way, New York. (See adv. index, end of book)
OKONITE CO. (Ltd.), 253 B'way, New
 York. (See adv. index, end of book.)

Cables (Weatherproof)

(See Wire, Weatherproof.)

***Cableways (Sewer & Trench Excavating)**

BALANCED CABLE CRANE CO., THE,
 135 William, New York. (See adv. opp. last page of Index of Contents)
FLORY, S. MFG. CO., Bangor, Pa.
 (See adv. index, end of book)
NEW YORK CABLE & ENGINEER-
 ing Co., 1 Rector, New York. (See adv. opposite this page)
WATSON, BENJ., 66 Beaver, New
 York. (See adv. index, end of book)

Cableways (Wire Rope)

(See also Wire Rope Tramways.)

BALANCED CABLE CRANE CO., THE,
 135 William, New York. (See adv. opp. last page of Index of Contents)
 Broderick & Bascom Rope Co., 809 N Main, St. Louis, Mo.
FLORY, S. MFG. CO. (Inclined, etc.),
 Bangor, Pa. (See adv. index, end of book)
 Hazard Mfg. Co., Wilkes-Barre, Pa., & 50 Dey, New York
 Leschen, A. & Sons Rope Co., 920 N 1st, St. Louis, Mo.
LIDGERWOOD MFG. CO., 96 Liberty,
 New York, & Old Colony bldg, Chicago. (See adv. index & branch offices end of book)
MEAD-MORRISON MFG. CO., Cam-
 bridge (Boston), Mass., & 11 B'way, New York. (See adv. index & branch offices, end of book)
WATSON, BENJ., 66 Beaver, New
 York. (See adv. index, end of book)

Cadmium

LEAVITT, C. W. & CO., 222 B'way,
 New York (See adv. index, end of hook)

Cadgers (Mining)

Gem Mfg. Co. ("Gem" Steel for Miners' Oil Reserve Supply), Pittsburg, Pa.

Suspended Cableways up to
2000 ft. Span.

Aerial Tramways
All Distances

Incline Machinery for
All Grades

Hoisting
Engines for
All purposes

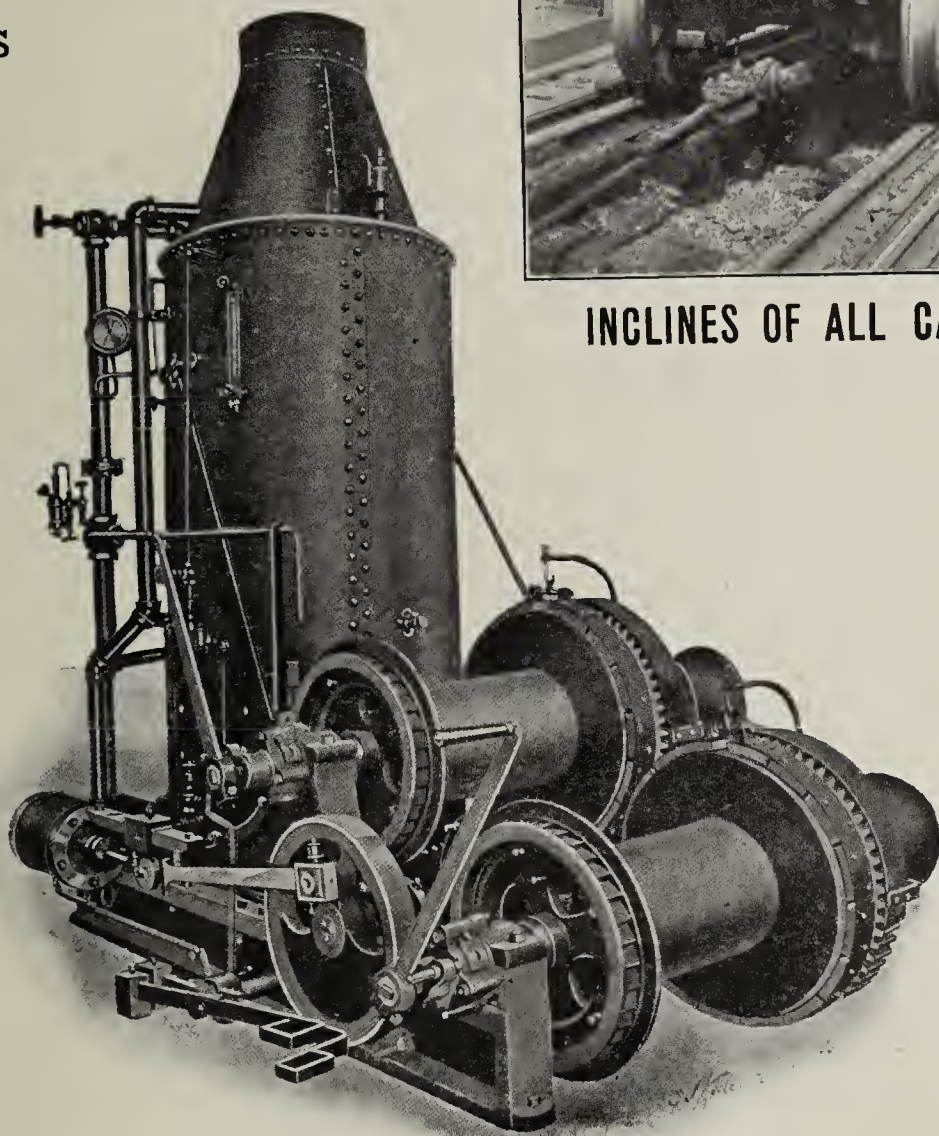
Derricks
Wood and
Steel

Log
Skidders

Grab
Buckets



INCLINES OF ALL CAPACITIES



NEW YORK CABLEWAY & ENGINEERING CO.

TELEPHONE 4539 RECTOR

2 RECTOR STREET, NEW YORK



**IF YOU FAIL TO FIND
IN THIS**

**COMMERCIAL
REGISTER.**

**THAT WHICH YOU ARE
LOOKING FOR**

WRITE US—

Enclosing a two cent stamp for reply and we will at once use our best endeavor to supply the information desired, free of charge.

S. E. HENDRICKS CO.,

74 Lafayette Street, [Corner Franklin,] NEW YORK.



Cages (Mine)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

Bartlett, A. F. & Co., Saginaw, Mich.

Central Iron Works (Self Dumping Coal), Quincy, Ill.

Connellsville Machine & Car Co., Connellsville, Pa.

Danville Fdry. & Mach. Co. (Self-Dumping & Ordinary), Danville, Ill.

Davis, F. M. Iron Works Co., Denver, Colo.

Denver Engineering Works Co., Denver, Colo.

Duncan Foundry & Machine Works (Self-Dumping), Alton, Ill.

Eagle Iron Works ("Olsen's" self-dumping), Des Moines, Ia.

Ellison, Wm. & Sons Mfg. Co., 1020 N 6th, St. Louis, Mo.

Hendrie & Bolthoff Mfg. & Supply Co., Denver, Colo.

Leyner, J. Geo., Engineering Works Co., Littleton, Col.

Litchfield Fdry. & Machine Co. (self-dumping & ordinary), Litchfield, Ill.

Lucas, A. & Sons (Self-Dumping), Peoria, Ill.

Marine Iron Co., Bay City, Mich.

Milbolland, J. & J. B. Co., 714 5th av., Pittsburgh, Pa.

Mine & Smelter Supply Co., Denver, Col.

Mineral Ridge Mfg. Co., Mineral Ridge, O.

Monongahela Mfg. Co. (Self-Dumping, Steel-Hoisting), Monongahela, Pa.

Nelsonville Foundry & Machine Co., Nelsonville, Ohio

Niles Mine & Mill Supply Co., Cleveland, O. & Niles, O.

Ottumwa Iron Works, Ottumwa, Iowa

Power & Mining Machinery Co., 52 William, New York. Works, Cudahy, Wis.

Prox, Frank Co., Terre Haute, Ind.

Stine, S. B. & Son (Automatic), Osceola Mills, Pa.

Traylor Engineering Co., 114 Liberty, New York. Works: Allentown, Pa.

Union Iron Works, San Francisco, Cal.

Union Iron Works (Inc.), Spokane, Wash.

WELLMAN-SEEVER-MORGAN CO., Cleveland, O., & Akron, O. (See adv. index, end of book)

Caisson Foundations

(See also Bridge Foundations)

Chicago Dock & Canal Co., 34 Clark, Chicago, Ill.

Clark & Co., 100 B'way, New York

Cranford Paving Co., Home Life bldg., Washington, D. C.

Drake & Stratton Co., Farmers' Bank bldg., Pittsburg, Pa.

Foundation Co. (Engineers & Contractors. Pneumatic, etc.), 35 Nassau, New York

Gahagan, Walter H., 189 Montague, Brooklyn, N. Y.

Great Lakes Dredge & Dock Co., 138 Washington, Chicago, Ill.

Houston, C. B. & Co., 713 Girard bldg., Philadelphia, Pa.

McMullen, Arthur & Co., 21 Park row, New York

Missouri Valley Bridge & Iron Works (A. J. Tullock, Prop.), Leavenworth, Kan.

O'Rourke Engineering Construction Co., 1 W 34th, New York

Simplex Foundation Co., North American bldg., Philadelphia, Pa.

Steers, Henry, 17 Battery pl, New York

Sutter, Jno. H., 108 La Salle, Chicago, Ill.

United Engineering & Contracting Co., 32 E 33d, New York

Caissons (Cast Iron)

Builders' Iron Foundry, Providence, R. I.

Caissons (Sheet Iron)

Aurora Boiler Wks. (Inc.), Aurora, Ill.

Coatesville Boiler Works (Steel), Coatesville, Pa.

East Jersey Pipe Co., Paterson, N. J., & 71 B'way, N. Y.

Ellicott Machine Co., Bush & Severn, Baltimore, Md.

KOVEN, L. O. & BRO., 50 Cliff, New York. (See adv. index, end of book)

Pollock, Wm. B. Co., Youngstown, Ohio.

REEVES BROS. CO., Alliance, O. (See adv. index, end of book)

Ritter-Conley Mfg. Co. (Steel), 56 Water, Pittsburgh, Pa., & 111 B'way, New York

Calcium Carbide

Kalbfleisch, Franklin H. Co., 35 Burling slip, New York

Union Carbide Co., 157 Michigan av, Chicago, Ill. Works: Niagara Falls, N. Y., & Sault Ste. Marie, Mich.

Calcium Chloride

(See Chloride of Calcium)

Calculagraphs

Calculagraph Co., 9 Maiden la, New York

Calendering Machines

(See Machinery.)

Calipers

(See also Gauges, Caliper; also Rules, Caliper; also Squares, Caliper; also Micrometers; also Spherometers.)

Athol Machine Co., Athol, Mass.

Belcher Bros. & Co., Irvington, N. J., & 62 Reade, New York

Billings & Spencer Co., Hartford, Conn.

Brown & Sharpe Mfg. Co., Providence, R. I.

Chapin-Stephens Co., Pine Meadow, Conn.

Eagan, Thos. F. Worcester, Mass.

HAMMACHER, SCHLEMMER & CO., 133 4th av, New York. (See adv. index, end of book)

Johnson, Wm. (Hedberg Works), (Registering, Double, Navy, etc.), Newark, N. J.

Kraeuter & Co. (Register, Ooutside, Navy, etc.), 577 18th av, Newark, N. J.

Massachusetts Tool Co. (Firm Joint), Greenfield, Mass.

New England Specialty Co., N. Easton, Mass.

Peck, Stow & Wilcox Co., Southington, Conn., & 27 Murray, New York

Pratt & Whitney Co., Hartford, Conn.

Sawyer Tool Mfg. Co., Fitchburg, Mass.

Slocumb, J. T. Co., Providence, R. I.

Smith, E. G., Co. ("Columbia"), Columbia, Pa.

Smith, H. B. Machiue Co. (Chisel, for Hand Turning), Smithville, N. J., & 121 Liberty, New York

Starrett, L. S. Co. ("Fay"), Athol, Mass.

Welles, Fred A. (Adjustable, etc.), 419 Sycamore, Milwaukee, Wis.

Calipers (Beam)

Athol Machine Co., Athol, Mass.

Billings & Spencer Co., Hartford, Conn.

Sawyer Tool Mfg. Co., Fitchburg, Mass.

Smith, E. G. (Graduated), Columbia, Pa.

Calipers (Log)

Humphrey Machine Co. (Decimal), Keene, N. H.

Keuffel & Esser Co., 127 Fulton, New York

Lufkin Rule Co., Saginaw, Mich.

Calipers (Micrometer)

(See Micrometers.)

Calipers (Spring)

Athol Machiue Co., Athol, Mass.

Brown & Sharpe Mfg. Co., Providence, R. I.

HAMMACHER, SCHLEMMER & CO., 133 4th av, New York. (See adv. index, end of book)

Starrett, L. S. Co. ("Fay"), Athol, Mass.

Calipers (Vernier)

Brown & Sharpe Mfg. Co., Providence, R. I.

HAMMACHER, SCHLEMMER & CO., 133 4th av, New York. (See adv. index, end of book)

Smith, E. G., Co. (the "Columbia" metric), Columbia, Pa.

Calipers (Winged)

HAMMACHER, SCHLEMMER & CO., 133 4th av, New York. (See adv. index, end of book)

Johnson, Wm. (Hedberg Works), (Inside & Outside), Newark, N. J.

Calorimeters

Elmer & Amend, 205 3d av, New York

Sargeut Steam Meter Co. ("Sargent"), First National Bank bldg, Chicago, Ill.

SCHAEFFER & BUDENBERG MFG. CO. ("Carpenters" Throttling, Separating & Coal), Foxboro, Mass. (See adv. index & branch offices, end of book)

Cambolts

General Specialty Co. ("B. & S."), Harrison bldg, Philadelphia, Pa.

*Camp Cooking Outfits & Stoves

WILSON, F. CORTEZ & CO., 239 Lake, Chicago, Ill. (See adv. index, end of book)

*Camp Stools & Chairs

CARPENTER, GEO. B. & CO., 202 S. Water, Chicago, Ill. (See adv. index, end of book.)

STANLEY WORKS (Stanley, Folding Camp Stool), New Britain, Conn., & 79 Chambers, New York. (See adv. index, end of book)

Cams

Chester Steel Castings Co., Chester, Pa., & 407 Sansom, Phila., Pa.

Chrome Steel Works (Canda Chrome Steel, Self Locking), Chrome, N. J.

Denver Engineering Works Co. (Cam Shafts for Stamp Mills), Denver, Colo.

National Steel Castings Co., Montpelier, Ind.

Power & Mining Machinery Co., 52 William, New York. Works, Cudahy, Wis.

Can Mfrs.

(See Cans, various kinds)

Can Openers

American Cutlery Co. (the "Only"), 193 Mather, Chicago, Ill.

Arcade Mfg. Co. (Steel Blade, Wood Handle), Freeport, Ill.

Bridgeport Hardware Mfg. Co., 461 Iranstan av, Bridgeport, Conn.

Browne & Dowd Mfg. Co. ("Never-Slip," "XXX," "Diamond," "Crescent," "Sprague" & "King" & "Star," with Cork screw), Meriden, Conn.

Dover Stamping & Mfg. Co. ("Never Slip Monarch"), Cambridge, Mass.

Ellis, F. L. & Son ("Little Giant"), Milldale, Conn.

Forbes Chocolate Co. ("Vim"), Cleveland, O.

Kraeuter & Co., Newark, N. J.

Landers, Frary & Clark, New Britain, Conn.

Meisselbach, A. F. & Bro. ("Columbia"), Newark, N. J.

New England Specialty Co. ("Leavitt's Common Sense," "National," "American"), North Easton, Mass.

Osborne, C. S. & Co. (Inc.), Newark, N. J.

Phoenix Hardware Mfg. Co., Homer, N. Y.

Read, A. P., Co. ("Read's"), 14 N. Canal, Chicago, Ill.

Smith, J. Barton Co., Norris & Hope, Phila., Pa.

Streeter, N. R. & Co., Rochester, N. Y.

Wrightsville Hardware Co., Wrightsville, Pa.

Candles (Electric)

Dow Portable Electric Co., Braintree, Mass.

Electric Contract Co., 202 Centre, N. Y.

Tardie, Emile J., 2477 8th av, New York

Candles (Mining)

Goodwin Mfg. Co., St. Louis, Mo.

Schneider, E. & Co., 17 Wabash av, Chicago, Ill.

Will & Baumer Co., Syracuse, N. Y.

Candles (Plumbers')

Emery Candle Co., Cincinnati, O.

Gross, A. & Co., 45 B'way, New York

Knapp Mfg. Co., 25 Frankfort, New York

Schneider, E. & Co., 17 Wabash av, Chicago, Ill.

Standard Oil Co. ("Which will tin"), 26 B'way, New York

Will & Baumer Co., Syracuse, N. Y.

Candlesticks (Colonial)

Elm City Brass & Rivet Co., Plainville, Conn.
Gorham Mfg. Co., Providence, R. I.

JACKSON, WM. H. COMPANY, 29 E.
17th (Union square), New York. (See adv.
index, end of book)

UNION EQUIPMENT AND BRONZE CO.
520 W 36th, N. Y. (See adv. outside stencil)

Canning House Sundries

Hull, J. S. Mfg. Co. (Gasoline Burners, Fire
Pots, Heaters, etc.), Baltimore, Md.

Cannon (Yacht)

American & British Mfg. Co., Providence, R. I.
Barney & Berry, Springfield, Mass.

Naval Electric Co. ("B. & H."), 95 Liberty,
New York

Snow & Petrelli Mfg. Co., 698 Chapel, New
Haven, Conn.

Canopies

(See Marquees)

Cans (Ash & Garbage)

American Can Co., 447 W 14th, New York
Arrow Can Co. ("Arrow," Pressed Steel), 35
Warren, New York

Atlantic Stamping Co. ("Atlantic"), Rochester,
N. Y.

Briscoe Mfg. Co. ("O-Rib-O"), Detroit, Mich.
Central Stamping Co., 24 Cliff, New York, N. Y.

Dover Stamping & Mfg. Co. ("Dover" Galvan-
ized Steel, also with Safety Coal Sieve),
Cambridge, Mass.

Durlach, I. (Indestructible), 54 Vesey, New York
Geuder & Paeschke Mfg. Co. ("Cream City"),
Milwaukee, Wis.

Guarantee Ash Can Co., 301 E 102d, New York
Ironclad Mfg. Co. (Galvanized), 204 Varet,
Brooklyn, N. Y.

KOVEN, L. O. & BRO., 50 Cliff, New
York. (See adv. index, end of book)

Lyon Metallic Mfg. Co. (also Tin Ash Cans),
Aurora, Ill.

North Star Ash Can Co. (Engineers' Steel), 167
Chrystie, New York

Terrace City Mfg. Co. ("I. X. L."), Yonkers,
N. Y.

Wotherspoon, Jas. R., 430 Race, Phila., Pa.

WILSON, F. CORTEZ & CO., 239
Lake, Chicago, Ill. (See adv. index, end
of book)

Cans (Gasoline)

Atlantic Stamping Co. ("Atlantic," 1 to 5 gal-
lon, Spout Faucet, etc.), Rochester, N. Y.

Delphos Mfg. Co. ("Legal"), Delphos, O.

Cans (Ice)

(See Ice Cans for Artificial Ice.)

Cans (Ice Cream)

Buhl Stamping Co., Detroit, Mich.
Crandall & Godley Co. (and Machinery), 157
Franklin, N. Y.

Ironclad Mfg. Co., 204 Varet, Brooklyn, N. Y.
Stuart & Peterson Co. (Porcelain Lined), Bur-
lington, N. J.

White Mountain Freezer Co., Nashua, N. H.

*Cans (Jacket)

WILSON, F. CORTEZ & CO., 239
Lake, Chicago, Ill. (See adv. index, end
of book)

Cans (Milk)

Buhl Stamping Co., Detroit, Mich.
Clark, W. J. Co., Salem, O.

Dover Stamping & Mfg. Co., Cambridge, Mass.
Geuder & Paeschke Mfg. Co., Milwaukee, Wis.

Ironclad Mfg. Co., 204 Varet, Brooklyn, N. Y.
Oakes & Burger ("Empire State" & "Union"),
Cattaraugus, N. Y.

Republic Metalware Co., Buffalo, N. Y., & 21
Cliff, New York

Sturges & Burn Mfg. Co., 249 S Green, Chica-
go, Ill.

Cans (Miners' Oil)

Gem Mfg. Co., Pittsburg, Pa.
Hardsoeg, Martin Co., Allegheny, Pa.

WILSON, F. CORTEZ & CO., 239
Lake, Chicago, Ill. (See adv. index, end
of book)

Cans (Oil)

Adams & Westlake Co., Ontario c N Franklin,
Chicago, Ill.

Akron Mfg. Co. (Railway, etc.), Akron, O.
American Auto Brass Co., Columbus, O.

American Can Co., 447 W 14th, New York
American Tube & Stamping Co., Bridgeport,
Conn.

Atlantic Stamping Co. ("Atlantic," 1 to 5 gal-
lons, Spout Faucet, etc., for Kerosene &
Gasoline), Rochester, N. Y.

Beman Automatic Oil Can Co., Meadville, Pa.
Briscoe Mfg. Co. ("O-Rib-O," 1 to 5 gallons),
Detroit, Mich.

Brown Oil Can Co., Toledo, O.
Bumann Mfg. Co., Litchfield, Ill.

Chapman & Brooks ("Special"), Springfield,
Mass.

Consolidated Fruit Jar Co., New Brunswick,
N. J., & 290 B'way, New York

Consolidated Mfg. Co., Toledo, O.
Delphos Mfg. Co. ("Never Leak," Spout or
Faucet, etc.), Delphos, O.

Deverall Perfection Mfg. Co. ("Deverall"),
Coney Island av & Johnson pl, Brooklyn,
N. Y.

Dover Stamping & Mfg. Co. ("Acme"), Cam-
bridge, Mass.

Eastern Can Co. ("Household"), Providence,
R. I.

ELLER MFG. CO., Canton, O. (See
adv. index, end of book)

Gem Mfg. Co. ("Gem" Heavy Brazed Steel Oil
Carriers), Pittsburg, Pa.

Geuder & Paeschke Mfg. Co. ("Cream City,"
Anti-Leak, Galvanized), Milwaukee, Wis.

Gray, Peter & Sons (For Railroad use, etc.),
88 Union, Boston, Mass.

Hall Mfg. Co., 62 Cliff, New York
Handlan-Buck Mfg. Co. (Railway, etc.), 212
N 3d, St. Louis, Mo.

Harps, J. A. Mfg. Co. ("Never Fail," for Oil
or Gasoline, for Household Use), Green-
field, O.

Hunt & Dorman Mfg. Co., Cleveland, O.
"Never Leak", Newark, N. J.

Ironclad Mfg. Co., 204 Varet, Brooklyn, N. Y.
Knapp Mfg. Co. (Oil Carriers, etc.), 25 Frank-
fort, New York

Lyon Metallic Mfg. Co., Aurora, Ill.
McClintock & Irvine Co., Pittsburg, Pa.

Manhattan Brass Co., 332 E 28th, New York
Many-Use Oil Co. (Reversible Spout), New York,
Mark Mfg. Co., Evanston, Ill.

Maple City Mfg. Co. ("Standard," for Gas-
oline & Kerosene, also "Howland" Pump),
Monmouth, Ill.

Michigan Lubricator Co., Detroit, Mich.
Meisselbach, A. R. & Bro. ("One Drop" &
National Enameling & Stamping Co., White &
B'way, New York

Noera Mfg. Co. ("Noera"), Waterbury, Conn.
Ohio Lantern Co. ("Baron," Glass, Wire Cush-
ioned), Tiffin, O.

Porter, Robt. (Est.), Provident bldg., Phila.,
Pa.

Republic Metalware Co., Buffalo, N. Y.
Rochester Automatic Oiler & Supply Co., Roch-
ester, N. Y.

Rockford Brass Works, Rockford, Ill.
Smith, S. W., Keithsburg, Ill.

Standard Tin Ware & Mfg. Co., Toledo, O.
Troy Stamping Works, Troy, N. Y.

Union Furnace Mfg. Co., Union Furnace, Pa.
Wall, P. Mfg. Supply Co., Allegheny, Pa.

Wheeling Stamping Co., Wheeling, W. Va.
WILSON, F. CORTEZ & CO., 239
Lake, Chicago, Ill. (See adv. index, end
of book)

Winfield Mfg. Co., Warren, O.

Cans (Packers', Etc.)

American Can Co., 447 W 14th, New York
Virginia Can Co. (Lock Seam), Buchanan, Va.

Wheeling Can Co., Wheeling, W. Va.

Cans (Paint & Varnish)

American Tube & Stamping Co., Bridgeport,
Conn.

Akron Mfg. Co. ("Ideal"), Akron, O.
Dunlap, Jno. Co., Pittsburg, Pa.

Export & Domestic Can Co., 608 W 43d, New
York

Norton Bros., Masonic Temple, Chicago, Ill.
Southern Can Co., Baltimore, Md.

Wallman Mfg. Co., Milwaukee, Wis.
WILSON, F. CORTEZ & CO., 239
Lake, Chicago, Ill. (See adv. index, end
of book)

Akron Mfg. Co. ("Ideal"), Akron, O.

Cans (Self-Sealing)

Cans (Tin)

(See also Cans, various kinds, in Index of
Contents)

American Can Co., 447 W 14th, New York
American Key Can Co., Marquette bldg, Chi-
cago, Ill.

American Stopper Co., 2 Verona, Brooklyn, N. Y.
American Tube & Stamping Co., Bridgeport,
Conn.

Ayars & Son Co., Bridgewater, N. J.
Blank Can & Mfg. Co., 116 Pine, St. Louis, Mo.

Bray & Kates, Arlington Heights, Ill.
Buffalo Tin Can Co., 1430 Niagara, Buffalo,
N. Y.

Bnhl Sons Co., 103 Woodbridge W, Detroit,
Mich.

Bwins, Jno. & Sons, 19 Fulton, New York
Canister Mfg. Co., Easton, Pa.

Central Stamping Co., 4 Cliff, New York
Chapin, R. E. Mfg. Works, Batavia, N. Y.

Clark, J. L. Mfg. Co., Rockford, Ill.
Colonial Can Co., Boston, Mass.

Columbia Specialty Co., 1508 E Fayette, Balti-
more, Md.

Columbia Stamping & Specialty Co., 186 6th av,
Brooklyn, N. Y.

Consumers Can Co., 1015 Fawn, Baltimore, Md.
Cornish, Curtis & Green, Fort Atkinson, Wis.

Cream City Can Works, Milwaukee, Wis.
Duckwell, J. S., Indianapolis, Ind.

Dunlap, Jno. Co., Pittsburg, Pa.
Excelsior Can Works, 154 Maiden la, New York

Export & Domestic Can Co., 608 W 43d, N. Y.
Fait & Co., 751 Dolphin, Baltimore, Md.

Good, Wm. D. Co., Roanoke, Va.
Grecht & Co., 1316 S Sharpe, Baltimore, Md.

Gulf Mfg. Co., New Orleans, La.
Heekin Can Co., 3d & Locke, Cincinnati, O.

Hill Mfg. Co., Providence, R. I.
Impervious Package Co., Keene, N. H.

Lecomte Mfg. Co., 174 7th, Brooklyn, N. Y.
McGinnis, Jas. Co., 702 Canton av, Baltimore,
Md.

Manufacturers Can Co., 434 Mulberry, Newark,
N. J.

Messenger, H. B., Federalburg, Md.
Millar Son & Co., Troy, N. Y.

Nalls, C. M., Roanoke, Va.
National Can Co., Detroit, Mich.

New Can Co., 45 Purchase, Boston, Mass.
New Glenwood Can Co., Glenwood, Ia.

Norton Bros., Masonic Temple, Chicago, Ill.
Oaks & Burger, Cattaraugus, N. Y.

Old Town Can Co., Baltimore, Md.
Quincy Stamping Co., Quincy, Ill.

Republic Metalware Co., Buffalo, N. Y.
Roseland Can & Specialty Co., Rockford, Ill.

Schneter Mfg. Co., 3116 N 9th, St. Louis, Mo.
Shepard Co., 21 Cliff, New York

Southern Can Co., Boston, Mass.
Steward, L. & J. A., Rutland, Vt.

Summers & Co., 45 W Camden, Baltimore, Md.
Tanner Bros. Mfg. Co., Belfast, N. Y.

Tay Co., San Francisco, Cal.
Thirklal Can Co., Belfast, N. Y.

Trench, D. G. Co., 42 River, Chicago, Ill.
Union Can Co. of San Francisco, 1107 Front,
New York

Wabash Baking Powder Co., Wabash, Ind.
Wallman Mfg. Co., Milwaukee, Wis.

Walpole Can Co., Wheeling, W. Va.
WILSON, F. CORTEZ & CO. (Tin),
239 Lake, Chicago, Ill. (See adv. index, end
of book)

Wilson, McClelland & Co., Kings Mills, O.
Wright, R. G. & Co., 52 Terrace, Buffalo, N. Y.

Yerdon, W. Fort Plains, N. Y.

Cans (Waste)

Akron Mfg. Co., Akron, O.
Atlantic Stamping Co. ("Atlantic," Galvanized
Iron), Rochester, N. Y.

Beman Automatic Oil Can Co., Meadville, Pa.
Central Stamping Co., 24 Cliff, New York, N. Y.

Clark, W. J. Co., Salem, O.
Cleveland Wire Spring Co. (Sheet Metal),
Cleveland, O.

Consolid'd Fruit Jar Co., New Brunswick, N. J.
Delphos Mfg. Co. (Self-Closing Oily), Delphos,
O.

Dover Stamping & Mfg. Co. (Oily Rag & Waste
Can), Cambridge, Mass.

Durlach, I., 54 Vesey, New York
Geuder & Paeschke Mfg. Co. (Galvanized Iron),
Milwaukee, Wis.

Ironclad Mfg. Co., 204 Varet, Brooklyn, N. Y.
Lyon Metallic Mfg. Co., Aurora, Ill.

McClintock & Irvine Co. (Steel Brazed), Pitts-
burg, Pa.

Ohio Mfg. Co. (Oily), Painesville, O.
Standard Tin Ware & Mfg. Co., Toledo, O.

WILSON, F. CORTEZ & CO., 239
Lake, Chicago, Ill. (See adv. index, end
of book)

Cant-Dogs

Bangor Edge-Tool Co. ("Peavy"), Bangor, Me.

Cant Flippers (Steam)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)
Union Furnace Mfg. Co., Union Furnace, Pa.

Canthooks

ANDERSON, W. H. TOOL & SUPPLY Co., 14 Macomb, Detroit, Mich. (See adv. index, end of book)
Atkins, E. C. & Co. (Inc.), Factories & Home Offices, Indianapolis, Ind.
Bangor Edge Tool Co. ("Peavy," with Dog Nose, etc.), Bangor, Me.
Boston & Lockport Block Co., 160 Commercial, Boston, Mass.

CARPENTER, GEO. B. & CO., 202 S. Water, Chicago, Ill. (See adv. index, end of book.)

Champion Tool & Handle Works ("Champion," "Wolverine"), Ewart, Mich.

Columbus Handle & Tool Co., Columbus, Ind.
Dicke Tool Co., Downer's Grove, Ill.
Ewart Tool Co. (Ltd.), Ewart, Mich.

Gerlach, Peter Co., 1708 Columbus rd., Cleveland, O.

Jackson Shovel & Tool Co. ("Acme"), Montpelier, Ind., & Market & Randolph, Chicago

Keystone Drop Forge Co., Chester, Pa.
Klein, Mathias & Son, 87 W. Van Buren, Chicago

Oshkosh Logging Tool Co., Oshkosh, Wis.
Prouty, C. & Co., Eldred, Pa.
Sanford, A. Logging Tool Co., Oshkosh, Wis.
Simonds Mfg. Co., New Orleans, La.
Standard Saw Mill Machinery Co., Erie, Pa.
Zelnicker, Walter A., Supply Co., 408 N 4th, St. Louis, Mo.

Capitals (Carved Wood)

(See Carvers, Wood, Classic; also Columns, Porch, etc.)

Capitals (Composition)

(See also Ornaments, Composition.)

CROOK, W. T., 1133 B'way, New York. (See adv. index, end of book)

DECORATORS' SUPPLY CO. (Interior and Exterior), Archer av. and Leo, Chicago, Ill. (See adv. index, end of book)

EMMEL, CHAS. (Papier Mache Staff), 383 Albany, Boston, Mass. (See adv. index & branch offices, end of book)

Harnisch, Ad., Spencer nr Chlorine Springs, Syracuse, N. Y.

Hartmann, Jno., 13 N Jefferson, Chicago
Spangler, Frank Co., Toledo, O.

Capitals (Plaster)

(See Ornaments, Plastic.)

Caps (Bronze)

Gorham Company, Providence, R. I.
JACKSON, WM. H. COMPANY, 29 E. 17th (Union square), New York. (See adv. index, end of book)

UNION EQUIPMENT AND BRONZE CO.
520 W 36th, N. Y. (See adv. outside stencil)

Caps (Chimney)

EDWARDS MFG. CO. (Steel), Eggleston av. & 4th & 5th, Cincinnati, O. (See adv. index & branch offices, end of book)

Sterling Foundry Co. ("Best" & "Cast Iron"), Sterling, Ill.

Wiley & Russell Mfg. Co. ("Green River" Cast Iron), Greenfield, Mass.

*Caps (Galvanized Iron Door & Window)

BERGER MFG. CO., Main Office and Works, Canton, O. (See adv. index & branch offices, end of book)

Caps (Hitching Post)

Wilcox, Crittenden & Co., Middletown, Conn.

*Caps (Hub)

WORCESTER PRESSED STEEL CO., Worcester, Mass. (See adv. index, end of book)

Caps (Metal, for Glassware)

Hazel Atlas Glass Co. (Stamped), Wheeling, W. Va.

Caps (Miners')

Hardocg, Martin Co., Allegheny, Pa.
Lattimore Mfg. Co., St. Clair, Pa.

*Caps (Pipe)

LUNKENHEIMER CO. (Brass), Gen-eral Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

Caps (Screw)

Columbia Specialty Co., Baltimore, Md.
Illinois Screw Co., Chicago, Ill.
Vogel, Wm. & Bros., Brooklyn, N. Y.
Wirz, A. H., 913 Cherry, 37 S. 9th, Philadelphia, Pa.

Caps (Ventilating)

Wolverine Brass Works, Grand Rapids, Mich.

Capstans

American Ship Windlass Co. (also Electric), Providence, R. I.

Chase Machine Co., 111 Elm, Cleveland, O.

Dunbar Mfg. Co., Northville, Mich.

Edson Mfg. Co. (Steam Bar), Boston, Mass.

FLORY, S. MFG. CO. (Steam), Ban-gor, Pa. (See adv. index, end of book)

Lyde Windlass Co., Bath, Me.

Marine Iron Works, Clayborn & Southport avs, Chicago, Ill.

Reist, Jas. & Son, Pittsburg, Pa.

Ridson Iron & Locomotive Works, San Francisco, Cal.

Russell, Albert & Sons, Newburyport, Mass.

Whitcomb Bros., Barre, Vt.

Wilcox, Crittenden & Co. ("Victor"), Middletown, Conn.

Woodstock Hardwood & Spool Mfg. Co. (Wooden), Charleston, S. C.

Car Builders

(See Cars of Various Kinds.)

Car Builders' Earthenware

Bellmark Pottery Co., Trenton, N. J.

Car Bumping Posts

(See Posts, Car Bumping.)

*Car Cleaning (Vacuum System)

GENERAL COMPRESSED AIR & Vaennm Machinery Co., 4469 Olive, St. Louis, Mo. (See adv. index, end of book)

ORGAN POWER CO., Hartford, Conn. (See adv. index, end of book)

VACUUM CLEANER CO., 427 5th av, New York. (See adv. index, end of book)

Car Ceilings

American Veneer Co., Kenilworth, N. J.

Frost's Veneer Seating Co., 206 Canal, New York

Indestructible Fibre Co., 45 B'way, New York

New York Veneer Seating Co. (Veneered Seats & Chairs), Jersey City, N. J.

Wallace Supply Co., 56 5th av, Chicago, Ill.

Woodman, Joel H. (Veneer), Hoboken, N. J.

Car Cleansing Powders & Compounds

Aquart, A. D. (Varnish Renovator), Chemical bldg., St. Louis, Mo.

De Ronde, Frank S. Co. (The "Sacarbolate"), 46 Cliff, New York

Ideal Car Cleaner Co., 228 N. 4th, Phila., Pa.
Imperial Car Cleaner Co., 218 McWhorter, Newark, N. J.
India Alkali Work (The Savogran), Boston, Mass.
Roever, Henry Co. ("Modoc" Liquid), Chester, Pa.

Car Couplers

(See Couplers, Cars.)

Car Curtains & Materials

Boston Artificial Leather Co., Stamford, Conn., & 256 4th av, New York
Boyle, Jno. & Co. (Cotton Duck & Curtain Strips), 112 Duane, N. Y.
Brill, J. G. Co., 63d & Woodlawn, Phila., Pa.
CARPENTER, GEO. B. & CO., 202 S. Water, Chicago, Ill. (See adv. index, end of book.)

Curtain Supply Co., 87 Ohio, Chicago
Dayton Mfg. Co., Dayton, O.
Forsyth Bros. Co., 43 Fulton, Chicago, Ill.
Garford, Co. The, Elyria & Cleveland, O.
Hale & Kilburn Mfg. Co., 1315 Walnut, Philadelphia, Pa.
Lewis, Robert, Richmond & Brill, Phila., Pa.
Pantasote Co., 11 Broadway, New York

Car Doors & Fittings

Burdett-Rowntree Mfg. Co. (Automatic Car Door), 85 W. Jackson boul, 147 W. 26th st., New York, N. Y.

Camel Co. (Security), Old Colony bldg, Chicago, Ill.

Chicago Grain Door Co., Monadnock hldk, Chicago, Ill.

DAHLSTROM METALLIC DOOR CO. (Car Doors), Jamestown, N. Y., & 299 B'way, New York. (See adv. index, end of book)

Dayton Malleable Iron Co. (Fasteners), Dayton, O.

Edwards, O. M. Co. (Extension Platform Trap Doors), Syracuse, N. Y.

Jones Car Door Co., Monadnock hlk, Chicago, Ill.

Kanally, M. E. Co., Cambridgeport, Mass.

Kirby Equipment Co. (Grain), Railway Exch, Chicago, Ill.

McGuire-Cummings Mfg. Co. (Grain, Freight, etc.), 122 N Sangamon, Chicago, Ill.

Miller, W. A. Elevator Mfg. Co., 115 Pine, St. Louis, Mo.

National Mfg. & Supply Co., The, 168 Michigan av, Chicago, Ill.

PITT CAR GATE CO. (Mrs. Gibbs Vestibule Door Operating Devices, used in New York Subway), 136-138 W 24th, New York. (See adv. index, end of book)

Sheffield Car Co. (Grain, etc.), Three Rivers, Mich.

Smith Car Door Co., Monadnock hlk, Chicago, Ill.

Standard Railway Equipment Co., Nat'l Bank of Commerce bldg, St. Louis, Mo.

STEARNS, A. T. LUMBER CO., Ne-ponset, Boston, Mass. (See adv. index, end of book)

Western Railway Equipment Co. (Western Flush), Missouri Trust bldg, St. Louis, Mo.

Car Dumpers

BROWN HOISTING MACHINERY CO., Cleveland, O., & 26 Cortlandt, N. Y. (See adv. index, end of book)

Browning Engineering Co., Cleveland, O.

McMyler Mfg. Co., 1799 Columbus rd, Cleveland, O.

WELLMAN-SEEVER-MORGAN CO., Cleveland & Akron, O. (See adv. index, end of book)

Car Fenders

Baltimore Car-Wheel Co. (The Blakistone), Baltimore, Md.

Brill, J. G. Co., 62d & Woodland av, Phila., Pa.

Clark's Automatic Car Fender Co. ("Clark's"), Decatur, Ill.

Consolidated Car Fender Co., 110 E. 23d, New York. Factory: Providence, R. I.

Dunning, Edw. L. Co., 262 Washington, Boston, Mass.

Eclipse Railway Supply Co. ("Eclipse" Life Guard), 113 St. Clair, N E, Cleveland, O.

Electric Service Supplies Co., 1020 Filbert, Phila., Pa.

Hlpwood-Barrett Fender Co. ("Hipwood"), Lakeport, N. H.
 McGulre-Cummings Mfg. Co. ("Royal Flush"), 122 N Sangamon, Chicago, Ill.
 Parmenter Fender & Wheel Guard Co., 84 State, Boston, Mass.
 Pfingst, Louis, 31 State, Boston, Mass.
 Star Brass Works ("Champion"), Kalamazoo, Mich.
 Sterling-Meeker Co. ("Sterling"), 420 Ogden, Newark, N. J.

Car Gates & Guards

Brill, J. G. Co., 62 & Woodland av., Phila., Pa.
 Brownell Patents Co., 219 N 4th, St. Louis, Mo.
BUFFALO WIRE WORKS CO., 316 Terrace, Buffalo, N. Y. (See adv. index, end of book)
 National Novelty Corporation, 826 B'way, New York

PITT CAR GATE CO. (Mrs. Pitt Car)
 Gates used on B. R. T. Elevated & Surface Cars, 136-138 W 24th, New York. (See adv. index, end of book)
 Smith & Wallace (the Sargent), Woburn, Mass.

UNION EQUIPMENT AND BRONZE CO.

520 W 36th, N. Y. (See adv. outside stencil)
 Vogan Bros. Mfg. Co., New Castle, Pa.

*Car Hauls

DODGE MFG. CO., Mishawaka, Ind. (See adv. index & branch offices, end of book)
JEFFREY MFG. CO., Columbus, O. (See adv. index & branch offices, end of book)

Car Journal Coolers

Cook Car Journal Co., Flint, Mich.

Car Lighting Apparatus

Adams & Westlake Co., Ontario & N. Franklin, Chicago, Ill.
BLISS ELECTRIC CAR LIGHTING Co., Milwaukee, Wis.
 Consolidated Car Heating Co. ("McElroy" Automatic Axle Lights), 42 B'way, N. Y. Works: Albany, N. Y.
 Consolidated Railway Electric Lighting & Equipment Co. (Automatic Electric Car Axle, 11 Pine, New York
 Gold Car Heating & Lighting Co., 17 Battery Place, New York
 Kinsman Electric & Railway Supply Co., 55 Dey, New York
 Safety Car Heating & Lighting Co. (Pintsch Light), 160 B'way, New York

*Car Lighting Apparatus (Bliss System)

BLISS ELECTRIC CAR LIGHTING Co., Milwaukee, Wis.

Car Link & Pin Machines

(See Machines, Car Link & Pin.)

Car Movers or Pushers

(See also Bars, Pinch.)

Advance Packing & Supply Co. ("Advance"), 55 S Canal, Chicago, Ill.
ANDERSON, W. H. TOOL & SUPPLY Co., 14 Macomb, Detroit, Mich. (See adv. index, end of book)
 Appleton Car Mover Co. ("Atlas"), Appleton, Wis.
 Boston & Lockport Block Co. ("Giant"), 160 Commercial, Boston, Mass.
CARPENTER, GEO. B. & CO., 202 S. Water, Chicago, Ill. (See adv. index, end of book)
DODGE MFG. CO., Mishawaka, Ind. (See adv. index & branch offices, end of book)
FAIRBANKS, MORSE & CO. ("Sampson"), Franklin & Monroe, Chicago, Ill. (See adv. index & branch offices, end of book)
 Hilts Wrench & Mfg. Co. ("Never-Slip"), Richford, N. Y.
 Howe Scale Co. of Illinois (Double Clutch), 1315 Wabash av, Chicago, Ill.
 Irving Mfg. & Tool Co. (J. F. McCoy Co., Prop.), 159 Chambers, New York
 Marseilles Mfg. Co., Marseilles, Ill.

MINNEAPOLIS STEEL & MACHIN-
 ery Co. ("Champlon"), Minneapolis, Minn. (See adv. index, & branch offices, end of book)

MORGAN ENGINEERING CO., Al-
 liance, O. (See adv. index, end of book)
 Motley, Green & Co. (Inc.), 68 Broad, New York
 Nordyke & Marmon Co., Indianapolis, Ind.
 Oshkosh Logging Tool Co. ("Mogul"), Oshkosh, Wis.

Pearson Jack Co. ("The U. S."), Boston, Mass.
 Quincy-Manchester-Sargent Co. (The "R. A."), Old Colony bldg, Chicago, Ill., & 114 Liberty, New York
 Rowell, G. D. & Son ("Samson"), Appleton, Wis.

STAFFORD, E. H. MFG. CO. ("Easy"), 262 Wabash av, Chicago, Ill. (See adv. index, end of book)
 Verona Tool Works (and Locomotive Car Pushers), Verona, Pa., & Pittsburg, Pa.
 Webster Mfg. Co. ("Sheldon"), 1075 W 15th, Chicago, Ill., & 38 Dey, New York
 Zelnicker, Walter A. Supply Co. ("Double Clutch"), 408 N 4th, St. Louis, Mo.

Car Platforms (Steel)

(See Platforms, Steel Car.)

Car Plush.

Alkman, C. M. & Co. (Mohair), 91 5th av, N. Y.
 Chase, L. C. & Co., 129 Washington, Boston.
 Goff, D. & Sons (Mohair), Pawtucket, R. I.
 Sanford Mills, Sanford, Me.

Car Pullers

(See Pullers, Car)

Car Pushers

(See Car Movers or Pushers)

Car Replacers

(See Replacers, Car)

Car Seats, Chairs & Fittings

Adams & Westlake Co. (Seats & Chairs), Ontario & N Franklin, Chicago, Ill.
 American Rattan & Reed Mfg. Co. (Rattan Seating), Kingsland & Norman avs, Brooklyn, N. Y.
 American Veneer Co., Kenilworth, N. J.
 Barney & Smith Car Co. (Seats only), Dayton, O.
 Dayton Mfg. Co., 2240 E 3d, Dayton, Ohio
 Frost's Veneer Seating Co. (Veneered), 200 Canal, N. Y.
 Hale & Kilburn Mfg. Co. (Steam & Electric Car Seating, etc.), 1315 Walnut, Phila., Pa.
 Hartford Woven Wire Mattress Co., Hartford, Conn.
 Heywood Bros. & Wakefield Co. (Seats, etc.), Gardner, Mass., & 195 Canal, New York
 Johnson Chair Co. (Chairs, etc.), 233 N Green, Chicago
 Marks Adjustable Chair Co. (Parlor & Reclining Chairs), 50 E 29th, New York
 New York Veneer Seating Co. (Veneered Seats & Chairs), Jersey City, N. J.
 Richards Chair-Panel Co. (Reclining, Dining & Wicker Car Chairs), 184 La Salle, Chicago, Ill.
 Scarritt-Comstock Furniture Co. (Seats, Chairs & Reclining Chairs), St. Louis, Mo.
 Wallace Supply Co., 56 5th av, Chicago, Ill., and 26 Cortlandt, New York

Car Steps

American Car Step Co., Wilmington, Del.
 Quincy-Manchester-Sargent Co. ("Q. & C." Standard), Old Colony bldg, Chicago, Ill., & 114 Liberty, New York

Car Trimmings

Adams & Westlake Co. (Metal Coach), Ontario, cor N Franklin, Chicago, Ill.
 American Car & Ship Hdw. Mfg. Co. (Brass & Bronze), New Castle, Pa.
 Buescher Band Instrument Co., Elkhart, Ind.
 Central Union Brass Co. (Brass & Bronze), 11th & Mullanphy Sts, St. Louis, Mo.
 Curtain Supply Co., 85 Ohio, Chicago, Ill.
 Columbia Machine Works & Malleable Iron Co. (Metal), 269 Chestnut, Brooklyn, N. Y.
 Creamer, W. G. & Co. (also Trolley Car Trimmings), 96 John, N. Y.

Dayton Mfg. Co., Dayton, O.
 Halstead & Co., 1129 Cherry, Phila., Pa.
 Howard, Jas. L. & Co., (Metal), Hartford, Conn.
 Kraushaar Brass Mfg. Co. (Brass & Bronze), 2507 N Bway, St. Louis, Mo.
 Loeffelholz Co. (Brass), 170 Clinton, Milwaukee, Wis.
 Midland Metal C. (Inc.) Brass & Bronze, 1427 Catherine, Philadelphia, Pa.
 Page Bros. & Co., 347 Cambridge, Boston, Mass.
 Recording Fare Register Co., New Haven, Conn.
 Sherburne & Co., 53 Oliver, Boston, Mass.
 Wallace Supply Co., 56 5th av, Chicago, Ill., and 26 Cortlandt, New York

Car Truck & Body Bolsters

American Car & Foundry Co., 706 Chestnut, St. Louis, Mo., & 25 Broad, New York
 American Steel Foundries (Cast Steel), Main Office, 42 B'way, New York, & Commercial Natl Bank Bldg, Chicago, Ill.
 Bettendorf Axle Co., Davenport, Ia.
 Commonwealth Steel Co. (Cast Steel), Bank of Commerce Bldg., St. Louis, Mo.
 Pressed Steel Car Co. (Pressed Steel), Pittsburg, Pa.
 Simplex Railway Appliance Co. (Freight, etc.), Hammond, Ind., & 42 B'way, New York
 Standard Steel Car Co., Frick bldg., Pittsburg, Pa., & 170 B'way, N. Y. Works, Butler, Pa.
 Sterlingworth Railway Supply Co. (Rolled Steel), North American bldg, Phila., Pa. Works, Easton, Pa.
WELLMAN-SEEVER-MORGAN CO. ("Wellman-Street" Cast Steel Bolsters), Cleveland, O., & Akron, O. (See adv. index, end of book)

Car Wheel Flasks

(See Molders' Flasks.)

*Car Wheel Foundry Plants

WHITING FOUNDRY EQUIPMENT Co., Harvey, Ill. (See adv. index, end of book)

Car Wheel Tapes

(See Tapes, Car Wheel Measuring)

Car Wheels

(See Wheels, Car, etc.)

Car Window Fixtures

Edwards, O. M. Co., Syracuse, N. Y.
 Ward, E. J. Co. (Shade Fixtures), 259 Wabash av, Chicago, Ill.

Car Window Rubbers

Morgan & Wright (Inc.), Detroit, Mich.

Carbanese

Midvale Mining & Mfg. Co. (for Founders), 705 Olive, St. Louis, Mo.

*Carbide Containers

WILSON, F. CORTEZ & CO., 239 Lake, Chicago, Ill. (See adv. index, end of book)

Carbide Mfrs.

Union Carbide Co., 45 B'way, New York, & 258 Franklin, Chicago, Ill.

Carbonate of Barytes

(See also Barytes)

Doggett, Stanley, 101 Beekman, New York
 Gabriel & Schall (Pure Precipitated), 205 Pearl, New York

Carbon Black Mfrs.

American Carbon Black Co., Warren, Pa.
 Binney & Smith Co., 81 Fulton, New York
 Cabot, Godfrey L., 82 Water, Boston, Mass.
 Carbon Black Mfg. Co. (Ltd.), Kane, Pa.
 Castle Brook Carbon Black Co., Williamsport, Pa.
 Columbian Carbon Co., Williamsport, Pa., & Weston, W. Va.
 Davidson, Jas. H. (Inc.), 239 Front, New York
 Mt. Jewett Carbon Co., Mt. Jewett, Pa.
 Peerless Carbon Black Co., Kane, Pa.
 Osborn, Clarence J. (Broker), 284 Pearl, New York
 Salberg Black Co., Ridgeway, Pa.
 Weston Carbon Co., Warren, Pa.

Carbon (Black Diamonds) Bortz and Diamond Hand Tools for Truing Emery Wheels, Pearl, Hard Rubber, Ivory, Etc.

Diamond Saw and Round Bortz, Diamond Flats for Wire Drawing, Crushing Bortz, Bortz Tools

S. DESSAU'S SONS

180 BROADWAY, NEW YORK CITY

IMPORTERS
OF...

CARBON



(Black
Diamonds)

BORTZ

and Rough Diamonds for Diamond Drills
and all Mechanical Purposes

Carbon (Black Diamonds) and Bortz Tools made to order from drawings or samples on short notice.

Highest Prices
Paid for worn out
Carbon, Bortz and
Carbon Fragments.

CATALOGUES AND PRICES MAILED ON REQUEST.

Carbon Mfrs.

International Acheson Graphite Co. (Pure), Niagara Falls, N. Y.

Carbons (Arc Light)

Cary, Edw. E. Co. ("Fabius Henson"), 61 Park Pl., New York
Crouse-Tremaine Carbon Co., Fostoria, O.
Independent Carbon Co., Cleveland, O.
Machado & Roller (Importers), 203 B'way, New York
National Carbon Co., Cleveland, O.
Reisinger, Hugo (Importers), 11 B'way, New York
Speer Carbon Co., St. Mary's, Pa.
Washington Carbon Co., Washington, Pa.

Carbons (Battery)

American Carbon & Battery Co., 2134 De Kalb, St. Louis, Mo.
Dickey-Sutton Carbon Co., Lancaster, O.
Eastern Carbon Works, Jersey City, N. J.
National Carbon Co., Cleveland, O.
Speer Carbon Co., St. Mary's, Pa.
Western Electric Co., 259 S. Clinton, Chicago, Ill., & 57 Bethune, N. Y.

Carbons (Black Diamonds) & Bortz

BANDLER, BERNARD & SON (for all Mechanical Purposes), 65 Nassau, New York. (See adv. below)
Baszanger, J. & Co. (also Rough Diamonds), 108 Fulton, New York
DESSAU'S, S. SONS, 180 B'way, New York. (See adv. above)
Francis & Co., Hartford, Conn.
Yawger-Demmert Co., 14 John, New York

Carbons (Searchlight)

Independent Carbon Co., Cleveland, O.
National Carbon Co., Cleveland, O.
Washington Carbon Co., Washington, Pa.

*Carborundum Grains & Brick

HARRISON SUPPLY CO. (For Marble & Granite Workers), 5 & 7 Dorchester av, ext, Boston, Mass. (See adv. index, end of book)

Carbureters

A. & J. Mfg. Co., 15 S Canal, Chicago, Ill.
Bates Automobile Co., Lansing, Mich.
Bradford Motor Works, Bradford, Pa.
Breeze Motor Mfg. Co., 33 Court, Newark, N. J.
Brennan Motor Co., Syracuse, N. Y.
Byrne, Kingston Co. ("Kingston"), Kokomo, Ind.
Clark Carburetter Co., Society for Savings bldg, Cleveland, O.
Clemick-Hirsh Co., 594 Milwaukee, Wis.
Continental Motor Mfg. Co., Muskegon, Mich.
Dow Portable Electric Co. ("Methot"), Braintree, Mass.
Dyke, A. L. Automobile Supply Co., Olive & Walton, St. Louis, Mo.
Ellerslie Mfg. Co., Rochester, N. Y.
Essex Brass Co., 480 Franklin, Detroit, Mich.
Fairmount Engineering Wks, 3205 Spring Garden, Phila. Pa.
Fast Machine & Tool Co., 24th & Greenfield av, Milwaukee, Wis.
Garllus, B. ("Garlus" Automatic), Madison, Wis.
Gilbert, Fred. E., Jacksonville, Fla.
Globe Machine & Stamping Co., 970 Hamilton, Cleveland, O.
Gould Manufacturing Co., Trenton, N. J.
Hatcher Auto Parts Co., 138 Viaduct, Cleveland,

Holley Bros. Co. (Holley), 668 Beaubien, Detroit, Mich.
Imperial Brass Mfg. Co., 242 S. Jefferson, Chicago, Ill.
Lake Shore Engine Works ("New Superior"), Marquette, Mich.
Lamson Machine Co., Abington, Mass.
Lear, Oscar Automobile Co., Columbus, O.
Lysman Mfg. Co., 634 Grand av, Beloit, Wis.
Loomis Autocar Co., Westfield, Mass.
Massnick Mfg. Co., 671 E Atwater, Detroit, Mich.
Maxwell & Fitch Co., Rome, N. Y.
Mayo Damper Co., Pottstown, Pa.
Michigan Motor Co., Grand Rapids, Mich.
Milwaukee Motor Co., 615 Clybourne, Milwaukee, Wis.
Minnesota Boat & Power Works ("Schmidt"), Stillwater, Minn.
Morgan, B., 86 John, Newport, R. I.
Mosler, Arthur R. ("Perfect"), 1679 B'way, New York
Motor Car Power Equipment Co., 577 Grove, Milwaukee, Wis.
Motor & Mfg. Works Co. ("D. R."), Ithaca, N. Y.
Murray, W. B., 1253 Milwaukee av, Chicago, Ill.
Never-Miss Spark Plug Co., Lansing, Mich.
Newcomb Carbureter Co. (Floatless), 1900 Broadway, New York
Scott & Sons Co., Medford, Mass.
Schebler Carburetter Co., 129 N Alabama, Indianapolis, Ind.
Sherwood Manufacturing Co., 1702 Elmwood av, Buffalo, N. Y.
Speed Changing Pulley Co. ("Universal"), 750 E Washington, Indianapolis, Ind.
SPRAGUE CANNING MACHINERY Co., 42 River, Chicago, Ill. (See adv. index, end of book)
Turner Brass Works, 66 Michigan, Chicago, Ill.
Walker, E. F. (Adjustable Throttling Ratio), Bridgewater, Conn.
Wall, R. C. Mfg. Co., 1336 Race, Phila., Pa.



CARBON AND BORT

—FOR—
DIAMOND DRILLS

Selection sent on approval

BERNARD BANDLER & SON, Importers

65 NASSAU STREET, NEW YORK, N. Y.

Waltham Manufacturing Co. ("Orient"), Waltham, Mass.
 Westerfield Motor Co., Anderson, Ind.
 Western Motor Co., Logansport, Ind.
 Wheeler & Schebler ("Schebler"), Indianapolis, Ind.
 Williamson, Thomas G. ("Little Giant"), 8 S 39th, Philadelphia, Pa.
 Winkley Co. (Garillus), Detroit, Mich.

Card Indexes

(See also Filing Cabinets & Devices)

American Steel Cabinet Co. (Metallic), New York Life bldg, Chicago, Ill.
BERGER MFG. CO. (Steel), Main Office & Works, Canton, O. (See adv. index & branch offices, end of book)
 Buckeye Index Co., Niles, Ohio.
 Clarke & Baker Co., Ilion, N. Y.
 Elliott Co., 100 Purchase, Boston, Mass.
GENERAL FIREPROOFING CO. ("Allsteel" Metallic), Youngstown, O., & 156 5th av, New York. (See adv. index & branch offices, end of book)
 Globe-Wernicke Co., Cincinnati, O.
 Gray Bros. Mfg. Co., Muskegon, Mich.
 Krag Imperial Cabinet Co. (Metallic), 123 S Clinton, Chicago, Ill.
 Library Bureau, 530 Atlantic av, Boston, Mass.
 Macey Co., Grand Rapids, & 343 B'way, New York
 Rockwell-Wabash Co., 24 5th, Chicago, Ill.
 Wabash Cabinet Co., Wabash, Ind.
 Yawman & Erbe Mfg. Co., Rochester, N. Y., & 360 B'way, New York

Carousels, Organs, Etc.

Dentzel, Gustav A., 3641 Germantown av, Phila., Pa.
 Evans & Co. (Steam), Lockport, N. Y.
 Gillie Engine & Machine Co., Tonawanda, N. Y.
 Herschell, Spillman Co. (also Doll Racks, Striking Machines, Old Women & African Dodger), North Tonawanda, N. Y.
 Mangels, Wm. F., 2941 W 5th, Brooklyn, N. Y.
 Morris, E. Joy, 902 Walnut, Phila., Pa.
 Murphy, T. F., 38 Franklin, Brooklyn, N. Y.
 Philadelphia Toboggan Co., 130 E Duval (Gtn), Phila., Pa.
 Queen City Carrousselle Co., South & Evans, Cincinnati, O.

Carpenters & Builders

(See Builders, Contracting; also Contractors, General.)

Carpenters' Adz Mfrs.

(See Adze Mfrs.)

Carpet Linings

Bishop, Robert (Estate of), 167 6th, S. B., Boston, Mass.
 Munroe Felt & Paper Co., 77 Summer, Boston, Mass.
 Olmstead & Tuttle Co., Chicopee, Mass.
 Schmidt & Ault Paper Co., York, Pa.
 Union Carpet Lining Co., 79 Summer, Boston, Mass.
WATSON, H. F. CO. (Paper Carpet), Erie, Pa. (See adv. index, end of book)

Carriage Axles

(See Axles, Carriage & Wagon)

Carriage Calls (Electric)

Electric Carriage Call Co. (for Theatres, etc.), 328 W 41st, New York

*Carriage Trimmings

WORCESTER PRESSED STEEL CO., Worcester, Mass. (See adv. index end of book)

Carriage Trimmings (Plated)

(See also Hardware Mfrs. Carriage & Wagon)
 Buescher Band Instrument Co., Elkhart, Ind.
 Enterprise Brass & Plating Co., Clark & Harriet, Cincinnati, O.
 Higgin Mfg. Co., Newport, Ky.
 Klenzle, W. F., 92 Ohio, Chicago, Ill.
 Schlegel Mfg. Co., Rochester, N. Y.
 Smith, Jos. N. & Co. (Rails, Handles, Name Plates, etc.), Detroit, Mich.
 White Mfg. Co., Bridgeport, Conn.
 Woodruff, Walter W. & Sons Co., Mt. Carmel, Conn.

Carriages (Cable)

(See Cable Carriages)

Carriages (Children's)

Adams Carriage Co., Canal Dover, O.
 Allen-Thompson-Whitney Co., 112 Canal, Boston, Mass.
 American Go-Cart Co., Detroit, Mich.
 American Rattan Co., 1606 S 2d, St. Louis, Mo.
 Capital Rattan Co., Indianapolis, Ind.
 Carriage & Toy Co., 737 W Lombard, Baltimore, Md.
 Carter, C. L. & Co., Winchendon, Mass.
 Chicago Willow & Rattan Works, 424 Blue Island av, Chicago, Ill.
 Detroit Rattan & Reed Works, Detroit, Mich.
 Erie City Carriage Works, Erie, Pa.
 Faribault Rattan Co., Faribault, Minn.
 Folding Baby Carriage Co., Davenport, Ia.
 Ford, J. S., Johnson & Co., 16th & Indiana av, Chicago, Ill.
 Gendron Wheel Co., Toledo, O.
 Hartshorn, C. H., Gardner, Mass.
 Helnz & Munschauer, Superior cor Randall, Buffalo, N. Y.
 Heywood Bros. & Wakefield Co., Baltimore, Md.
 Huke, Wm. Rattan & Willow Ware Mfg. Co., 1007 S 7th, St. Louis, Mo.
 Kaiser, J., & Co., 3d & Elm, St. Louis, Mo.
 Kelly Bros., Gardner, Mass.
 May, P. J., New Orleans, La.
 May's Rattan W'ks, 1795 N Clark, Chicago, Ill.
 Meinecke Adolph & Son, ft of Mason, Milwaukee, Wis.
 Menke, Chas., 535 E 15th, New York
 National Carriage & Reed Co., Findlay & John, Cincinnati, O.
 National Novelty Corporation (Rattan, Reed, etc.), 826 B'way, New York
 Newark Go-Cart Mfg. Co., 199 Washington, Newark, N. J.
 Newburgh Reed Co., Newburgh, N. Y.
 Noeller's, L. Sons, 47 Locust, Buffalo, N. Y.
 Pahl, E. F. & Co., 1032 3rd, Milwaukee, Wis.
 Paterson, L.S. Pompanoosuc, Vt.
 Peck & Hills Furniture Co., 1319 Michigan av, Chicago, Ill.
 Philadelphia Baby Carriage Factory, 1148 N American, Phila., Pa.
 Piel Bros. Mfg. Co., Madison av & Ray, Indianapolis, Ind.
 Pioneer Mfg. Co., Detroit, Mich.
 Platt, Geo. A., 489 5th av, Brooklyn, N. Y.
 Ramsbell, L. B., Gardner, Mass.
 Rich Bros., 122 S Howard, Baltimore, Md.
 Rieber, L. & Co., 16 N 4th, Phila., Pa.
 Starbuck Sons Co., Mattoon, Ill.
 Strecker, E. & Son, Greenfield, Mass.
 Thayer, H. N. Co., Erie, Pa.
 Poomey, S. & Co., Canal Dover, O.
 Travers, Geo. W., 10 Grand, New York
 Twin City Reed & Rattan Co., 92 W 7th, St. Paul, Minn.
 Union Carriage & Rattan Co., Louisville, Ky., & Ohio Falls, Ind.
 Walte Chair Co., Baldwinsville, Mass.
 Western Chair Co., 412 S Canal, Chicago, Ill.
 Whitney, F. A. Carriage Co., Leominster, Mass. (Also go-carts and folding go-carts)
 Whitney Reed Chair Co., Leominster, Mass. (Also go-carts)

Carriages (Gun)

Builders' Iron Foundry, Providence, R. I.
MORGAN ENGINEERING CO. (Gordon-Morgan) Disappearing, etc., Alliance, O. (See adv. index, end of book)
 Phila. Roll & Machine Co., S 23d & Washington av, Phila., Pa.
 Poole Engineering & Machine Co., Woodberry Station, Baltimore, Md.

Carriages (Saw Mill)

(See Saw Mill Carriages.)

Carriages (Tension)

BROWN, A. & F. CO., 25 Dey, New York. Works: Elizabethport, N. J. (See adv. index, end of book)
DODGE MFG. CO., Mishawaka, Ind. (See adv. index & branch offices, end of book)
 Link Belt Co., W. 39th cor. Stewart av, Chicago, Ill., & 209 B'way, New York
MINNEAPOLIS STEEL & MACHINERY CO., Minneapolis, Minn. (See adv. index and branch offices, end of book)
 Nordyke & Marmon Co. (Vertical & Horizontal), Indianapolis, Ind.

Carriers (Belt)

(See Conveyors, Belt)

Carriers (Can & Bag, Street Sweeping)

ACME ROAD MACHINERY CO., Frankfort, N. Y. (See adv. index, end of book)
 Monarch Road Roller Co. ("Monarch"), Gorton, N. Y.
 Motley, Green Co., 68 Broad, New York
 Straln, J. H. Co. (Can), 12 Elm, New York.
 Wirt & Knox Mfg. Co., 23 N 4th, Phila., Pa.

Carriers (Gravity)

(See Conveyors, Gravity.)

Carriers (Hay)

CANTON FOUNDRY & MACHINE CO., (Steel Track), Canton, O. (See adv. index, end of book)
 Eureka Mower Co. ("The Clark"), Utica, N. Y.
 Hunt-Helm-Ferris & Co. ("Star"), Harvard, Ill.
 Janesville Hay Tool Co. ("Dead Lock," Steel & Wood Track), 59 Clark, Chicago, Ill.
 Jordan, R. C., Ottawa, Ill.
 Milwaukee Hay Tool Co. (Wood & Steel Track, etc.), Layton Park, Milwaukee, Wis.
 Myers, F. E. & Bro., Ashland, O.
 Ney Mfg. Co., Canton, O.
 Ney, V. L. Co., Canton, O.
 Porter, J. E. Co. ("Ideal" Steel Track), Ottawawa, Ill.
 Stowell Mfg. & Foundry Co., South Milwaukee, Superior Drill Co., Springfield, O.
 Swineford, G. A., Co., Canton, O.
WHITMAN & BARNES MFG. CO. ("Diamond" Steel Track, Rod or Cable), Chicago, Ill. (See adv. index and branch offices, end of book)

Carriers Merchandise

(See also Trolleys & Trolley Tracks, Overhead)
 Air Line Carrier Co., 200 Monroe, Chicago, Ill.
 Allith Mfg. Co. (Overhead Track), W Taylor c S 43d av, Chicago, Ill.
 Howe Scale Co., of Illinois, 1315 Wabash av, Chicago, Ill.
 Hunt-Helm-Ferris & Co. ("Star"), Harvard, Ill.
 Ricker Mfg. Co., Rochester, N. Y.

*Carriers (Milk Jar)

WRIGHT WIRE CO. (Tinned Wire), Worcester, Mass. (See adv. index and branch offices, end of book)

Cars (Ballast)

CONTINENTAL CAR & EQUIPMENT CO., 17 Battery pl, New York. (See adv. index, end of book)
FAIRBANKS, MORSE & CO., Franklin & Monroe, Chicago, Ill. (See adv. index & branch offices, end of book)
 Ralston Steel Car Co., Columbus, O.
 Rodger Ballast Car Co., Railway Exchange bldg, Chicago, Ill.
RUSSEL WHEEL & FOUNDRY CO., Detroit, Mich. (See adv. index, end of book)
 Western Wheeled Scraper Co. (Bottom & Side Dump), Aurora, Ill.

*Cars (Barney)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

Cars (Billet)

AKRON CULTIVATOR CO., Akron, O. (See adv. index, end of book)
 American Car & Foundry Co., 706 Chestnut, St. Louis, Mo., & 25 Broad, New York
ARCHER IRON WORKS CO., 32 LaSalle, Chicago, Ill. (See adv. index, end of book)
 Atlas Car & Mfg. Co., Cleveland, O.
 Chase Foundry Mfg. Co., Columbus, O.
 Cleveland Car Co., Cleveland, O.
 Gregg Co. (Ltd), Newburgh, N. Y.

Hunt, C. W. Co., 45 B'way, New York. Works: West New Brighton, S. I., N. Y.
 Jackson Mfg. Co., Harrisburg, Pa.
 Kilbourne & Jacobs Mfg. Co., Columbus, O.
KOPPEL, ARTHUR CO., 68 Broad,
 New York. (See adv. on this page; branch offices, end of book)
NORTHERN ENGINEERING WORKS,
 9 Chene, Detroit, Mich. (See adv. index, end of book)
 Parker Hoist & Machine Co., 971 N. Francisco av., Chicago, Ill.
WHITING FOUNDRY EQUIPMENT
 Co., Harvey, Ill. (See adv. index & branch offices, end of book)

Cars (Brick)

(See also Trucks, Brick)

AMERICAN CLAY MACHINERY CO.,
 (Steel & Wood), Bucyrus, O.
 Atlas Car & Mfg. Co. (also Metal, Brick, & Drying Cars, Sand, Lime, Brick, Deck, etc.), Cleveland, O.
BONNOT COMPANY, Canton, O. (See adv. index, end of book)
CAREY, GEO. H., 1 B'way, New
 York. (See adv. index, end of book)
 Chambers Bros. Co., 52d, below Lancaster av., Phila., Pa.
 Chase Foundry & Mfg. Co., Columbus, O.
 Cleveland Car Co., 148 Scranton av., Cleveland, O.
CONTINENTAL CAR & EQUIPMENT
 Co., 17 Battery pl, New York. (See adv. on following page)
 Freese, E. M. & Co., Galion, O.
GREGG COMPANY (Ltd.), Newburgh,
 N. Y. (See adv. on preceding page)
 Hathorn Foundry & Machine Co., Mason City, Ia.
 Horton Mfg. Co. (Clay, Dumping, etc.), Painesville, O.
 Kilbourne & Jacobs Mfg. Co., Columbus, O.
KOPPEL, ARTHUR CO., 68 Broad,
 New York. (See adv. on this page; branch offices, end of book)
 Ohio Ceramic Engineering Co. (Deck, Rack, Flat, etc.), Berea rd, Cleveland, O.
RUSSEL WHEEL & FOUNDRY CO.,
 Detroit, Mich. (See adv. index, end of book)
 Scott's Patent Brick Car Co., Knoxville, Tenn.
 Stuart, R. J. & T. H., New Hamburg, N. Y.
 Wellington Machine Co., Wellington, O.

Cars (Bridge Gang)

Buda Foundry & Mfg. Co., Railway Exchange bldg., Chicago, Ill. Works: Harvey, Ill.
CAREY, GEO. H., 1 B'way, New
 York. (See adv. index, end of book)
 Davies, Frank, Hennen bldg., New Orleans, La.
FAIRBANKS, MORSE & CO., Frank-
 lin & Monroe, Chicago, Ill. (See adv. index & branch offices, end of book)
GREGG COMPANY (Ltd.), Newburgh,
 N. Y. (See adv. on preceding page)
KOPPEL, ARTHUR CO., 68 Broad,
 New York. (See adv. on this page; branch offices, end of book)
 Sheffield Car Co., Three Rivers, Mich.
WIENER, ERNST CO., 68 Broad,
 New York. (See adv. index, end of book)

Cars (Cane)

(See Cars, Plantation.)

Cars (Canopy)

CAREY, GEO. H., 1 B'way, New
 York. (See adv. index, end of book)
GREGG COMPANY (Ltd.), Newburgh,
 N. Y. (See adv. on preceding page)
KOPPEL, ARTHUR CO., 68 Broad,
 New York. (See adv. on this page; branch offices, end of book)
 Ramapo Iron Works, Hillburn, N. Y.
 Sheffield Car Co., Three Rivers, Mich.
WIENER, ERNST CO., 68 Broad, New
 York. (See adv. index, end of book)

Cars (Charging)

AKRON CULTIVATOR CO., Akron, O.
 (See adv. index, end of book)
 Atlas Car & Mfg. Co., Cleveland, O.
CAREY, GEO. H., 1 B'way, New
 York. (See adv. index, end of book)
 Chase Foundry & Mfg. Co., Columbus, O.
GREGG COMPANY (Ltd.), Newburgh,
 N. Y. (See adv. on preceding page)

Hoshor-Platt Co. (Balance Steel), 120 Liberty, New York city
 Hunt, C. W. Co., 45 B'way, New York. Works: W New Brighton, S. I., N. Y.
 Kilbourne & Jacobs Mfg. Co. (Annealing Furnace, etc.), Columbus, O.
KOPPEL, ARTHUR CO., 68 Broad,
 New York. (See adv. below & branch offices, end of book)
 Link Belt Co. (Drop Side, etc.), W. 39th cor. Stewart av., Chicago, Ill., & 299 B'way, New York
 Power & Mining Machinery Co., 52 William, New York. Works, Cudahy, Wis.
RUSSEL WHEEL & FOUNDRY CO.,
 Detroit, Mich. (See adv. index, end of book)
 Stuebner, G. L. Iron Works, 12th & Vernon av., Long Island City, N. Y.
 Treadwell, H. H. & Co., 90 West, New York Works, Lebanon, Pa.
 Turl's, Jno. Sons (Inc.), 26 Cortlandt, New York; Works: Newburgh, N. Y.
 Variety Iron & Steel Works Co., Cleveland, O.
WIENER, ERNST CO., 68 Broad,
 New York. (See adv. index, end of book)

*Cars (Charging, Open Hearth)

MORGAN ENGINEERING CO., All-
 ance, O. (See adv. index, end of book)

Cars (Clay)

American Car & Foundry Co., 706 Chestnut, St. Louis, Mo., & 25 Broad, New York
 American Clay Working Machinery Co., Bucyrus, O., & Willoughby, O.
 Atlas Car & Mfg. Co., Cleveland, O.
BONNOT COMPANY (Brick & Clay),
 Canton, O. (See adv. index, end of book)
CAREY, GEO. H., 1 B'way, New
 York. (See adv. index, end of book)
 Chase Foundry & Mfg. Co., Columbus, O.
 Christman Co., Massillon, O.
 Cleveland Car Co., Cleveland, O.
CONTINENTAL CAR & EQUIPMENT
 Co., 17 Battery pl, New York. (See adv. on following page)
 Davies, Frank, Hennen bldg., New Orleans, La.
 Freese, E. M. & Co., Galion, O.
GREGG COMPANY (Ltd.), Newburgh,
 N. Y. (See adv. on preceding page)
 Hathorn Foundry & Machine Co., Mason City, Iowa
 Helmick Foundry & Machine Co., Fairmont, W. Va.
 Horton Mfg. Co., Painesville, O.
 Kilbourne & Jacobs Mfg. Co. (Wooden), Columbus, O.
KOPPEL, ARTHUR CO., 68 Broad,
 New York. (See adv. below & branch offices, end of book)

Ohio Ceramic Engineering Co., Berea rd., Cleveland, O.
 Peacock's Iron Works (Iron, Steel & Wood), Selma, Ala.
 Raymond, C. W., Co., Dayton, O.
 Scott & Oliver Mfg. Co. (Brick), Knoxville, Tenn.
 Sheffield Car Co. (Steel or Wood), Three Rivers, Mich.
 Steele, J. C. & Son, Statesville, N. C.
 Stuebner, G. L. Iron Works, 12th & Vernon av., Long Island City, N. Y.
 Treadwell, M. M. & Co., 90 West, N. Y.
 Truax Mfg. Co. (John T. Plummer, Prop.) (Two Way, Rock Dump), Denver, Colo.
 Wellington Machine Co. (Brick, etc.), Wellington, O.
WIENER, ERNST CO., 68 Broad,
 New York. (See adv. index, end of book)

Cars (Coal)

Barney & Smith Car Co., Dayton, Ohio
CAREY, GEO. H., 1 B'way, New
 York. (See adv. index, end of book)
 Central Iron Works (Self Dumping), Quincy, Ill.
CONTINENTAL CAR & EQUIPMENT
 Co., 17 Battery pl, New York. (See adv. on following page)
 Erie Car Works, Erie, Pa.
 Helmick Foundry & Machine Co., Fairmont, W. Va.
 Hicks Locomotive & Car Works, 277 Dearborn, Chicago, Ill.
 Howe Scale Co., of Illinois, 1315 Wabash av., Chicago, Ill.
 Kilbourne & Jacobs Mfg. Co. (Steel, Side Opening, etc.), Columbus, O.
 Lehigh Car Wheel & Axle Works, Catsaqua, Pa.
 Mount Vernon Car Mfg. Co., Mount Vernon, Ill.
 Peacock's Iron Works, Selma, Ala.
 Phillips, Doup & Co., 56 Pearl, Brooklyn, N. Y.
 Portland Co., Portland, Me.
RUSSEL WHEEL & FOUNDRY CO.,
 Detroit, Mich. (See adv. index, end of book)
 Sheffield Car Co., Three Rivers, Mich.
 Stuebner, G. L. Iron Works, 12th & Vernon av., Long Island City, N. Y.
 Treadwell, M. H. & Co., 90 West, N. Y.
 Truax Mfg. Co. (John T. Plummer, Prop.), Denver, Colo.
WATSON, BENJAMIN, 66 Beaver,
 New York. (See adv. index, end of book)
 Whitman Agricultural Co. (Wood), 6900 S B'way, St. Louis, Mo.

Cars (Concrete)

Chase Foundry & Mfg. Co., Columbus, O.
CONTINENTAL CAR & EQUIPMENT
 Co., 17 Battery pl, New York. (See adv. on following page)
 Kilbourne & Jacobs Mfg. Co. (Steel End Dump), Columbus, O.
 Queen City Brick Machine Co., Travers City, Mich.

Cars (Concrete Block)

Atlas Car & Mfg. Co., Cleveland, O.
 Chase Foundry & Mfg. Co. (Drylug & Transfer Cars), Columbus, O.
 United Cement Machinery Mfg. Co., Columbus, O.

Cars (Core Oven)

Atlas Car & Mfg. Co., Cleveland, O.
 Byram & Co. (Inc.), 435 Guoin, Detroit, Mich.
CAREY, GEO. H., 1 B'way, New
 York. (See adv. index, end of book)
 Chase Foundry & Mfg. Co., Columbus, O.
 Cleveland Car Co., Cleveland, O.
GREGG COMPANY (Ltd.), Newburgh,
 N. Y. (See adv. on preceding page)
 Hunt, C. W. Co., 45 B'way, New York. Works: W. New Brighton, S. I., N. Y.
 Jackson Mfg. Co., Harrisburg, Pa.
 Kilbourne & Jacobs Mfg. Co., Columbus, O.
KOPPEL, ARTHUR CO., 68 Broad,
 New York. (See adv. on this page; branch offices, end of book)
 Lyon Metallic Mfg. Co., Aurora, Ill.
 Niles Boiler Co., Niles, O.
NORTHERN ENGINEERING WORKS,
 9 Chene & Atwater, Detroit, Mich. (See adv. index, end of book)
RUSSEL WHEEL & FOUNDRY CO.,
 9 Chene, Detroit, Mich. (See adv. index, end of book)
 Sheffield Car Co., Three Rivers, Mich.
WHITING FOUNDRY EQUIPMENT
 Co., Harvey, Ill. (See adv. index & branch offices, end of book)
WIENER, ERNST CO., 68 Broad,
 New York. (See adv. index, end of book)

MANUFACTURERS OF COMPLETE INDUSTRIAL AND PORTABLE RAILROADS A LARGE STOCK

— OF —

Rails, Steel Ties, Track, Port-
able Track, Switches, Frogs,
Turntables, Wheels, Axles,
Crossings, Spare Parts, Loco-
motives, Etc.

WRITE FOR CATALOG "M"

ARTHUR KOPPEL COMPANY

66-68 Broad Street, New York
 1639 Monadnock Blk., Chicago
 Machesney Bldg., Pittsburgh
 Chronicle Bldg., San Francisco
 Works at Koppel, Beaver Co., Pa.

Cars (Derrick or Crane)

American Car & Foundry Co., 706 Chestnut, St. Louis, Mo., & 25 Broad, New York
Beatty, M. & Sons, Welland, Ontario, Canada
BYERS, JOHN F., MACHINE CO., Ravenna, O. (See adv. index, end of book)
CAREY, GEO. H., 1 B'way, New York. (See adv. index, end of book)
DOBBIE FOUNDRY & MACHINE CO., Main Office & Works: Niagara Falls, N. Y. (See adv. index & branch offices, end of book)
GREGG COMPANY (Ltd.), Newburgh, N. Y. (See adv. below)
Hicks Locomotive & Car Works, 277 Dearborn, Chicago, Ill.
Hunt, C. W. Co., 45 B'way, New York. Works: W. New Brighton, S. I., N. Y.
Industrial Works, Bay City, Mich.
MUNDY, J. L. (Self-Propelling), 22 Prospect, Newark, N. J. (See adv. index & branch offices, end of book)
RUSSEL WHEEL & FOUNDRY CO., Detroit, Mich. (See adv. index, end of book)
WATSON, BENJAMIN, 66 Beaver, New York. (See adv. index, end of book)

Cars (Drop Bottom)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index and branch offices, end of book)
American Car & Foundry Co., 706 Chestnut, St. Louis, Mo., & 25 Broad, New York
Atlas Car & Mfg. Co., Cleveland, O.
Austin Mfg. Co., Manhattan bldg, Chicago, Ill. Works, Harvey, Ill.
Barney & Smith Car Co., Dayton, O.
Bodley Wagon Co., Memphis, Tenn.
CAREY, GEO. H., 1 B'way, New York. (See adv. index, end of book)
Caswell Car Co. (Level Floor), 100 Washington, Chicago, Ill.
Chase Foundry & Mfg. Co., Columbus, O.
Chattanooga Car & Foundry Co., Chattanooga, Tenn.
Cleveland Car Co., 148 Scranton av, Cleveland, O.
CONTINENTAL CAR & EQUIPMENT Co., Battery pl, New York. (See adv. next column)
Focht, Geo. Sons, 119 Adams, Brooklyn, N. Y.
GREGG COMPANY (Ltd.), Newburgh, N. Y. (See adv. index, end of book)
Haskell & Barker Mfg. Co., Michigan City, Ind.
Helmick Foundry & Machine Co., Fairmont, W. Va.
Hicks Locomotive & Car Works, 277 Dearborn, Chicago, Ill.
Ingoldsby Automatic Car Co., Chemical bldg, St. Louis, Mo.
Kilbourne & Jacobs Mfg. Co., Columbus, O.
Peacock's Iron Works (Steel & Wood), Selma, Ala.
Ralston Car Co. (100,000 lbs. capacity), Columbus, O.
Ramapo Iron Works, Hillburn, N. Y.
RUSSEL WHEEL & FOUNDRY CO., Detroit, Mich. (See adv. index, end of book)
Sheffield Car Co., Three Rivers, Mich.
South Baltimore Steel Car & Foundry Co., Baltimore, Md.
WATSON, BENJAMIN, 66 Beaver, New York. (See adv. index, end of book)
Whitman Agricultural Co. (Wood & Steel), 6900 S B'way, St. Louis, Mo.
Wonham-Magor Engineering Works 29 B'way, New York

Cars (Dryer)

Atlas Car & Mfg. Co., Cleveland, O.
BONNOT COMPANY, Canton, O. (See adv. index, end of book)
CAREY, GEO. H., 1 B'way, New York. (See adv. index, end of book)
Chambers Bros. Co., 52d below Lancaster av, Phila., Pa.
Chase Foundry & Mfg. Co., Columbus, O.
Focht, Geo. Sons, 119 Adams, Hoboken, N. J.
GREGG COMPANY (Ltd.), Newburgh, N. Y. (See adv. index, end of book)
KOPPEL, ARTHUR CO., 68 Broad, New York. (See adv. in last column & branch offices, end of book)
Louisville Machine Co., Louisville, O.
Martin, Henry Brick Machine Mfg. Co., Lancaster, Pa.
Means Foundry & Machine Co., Steubenville, O.
North Alabama Engineering Co., New Decatur, Ala.
Ohio Ceramic Engineering Co. (Steel), Berea rd., Cleveland, O.

RUSSEL WHEEL & FOUNDRY CO., Detroit, Mich. (See adv. index, end of book)
Scott's Patent Brick Car Co. (and Open-Air Drying System), Knoxville, Tenn.
WIENER, ERNST CO., 68 Broad, New York. (See adv. index, end of book)
Wonham-Magor Engineering Works 29 B'way, New York

Cars (Dumping)

(See also Cars, Mine.)

American Car & Foundry Co., 706 Chestnut, St. Louis, Mo., & 25 Broad, New York
American Clay Machinery Co. (Steel & Wood), Bucyrus, O.
Atlas Car & Mfg. Co. (End, Bottom, Either Side, Rocker, Rotary, etc.), Cleveland, O.
Austin Mfg. Co., (Automatic), Manhattan bldg, Chicago, Ill. Works, Harvey, Ill.
BONNOT COMPANY (Steel Bed, Bottom, Side & End Dump), Canton, O. (See adv. index, end of book)
Cagney Bros., 74 B'way, New York
CAREY, GEO. H., 1 B'way, New York. (See adv. index, end of book)
CARLIN'S, THOS. SONS CO. (Self-Dumping), 1300 River av, Allegheny, Pa. (See adv. index, end of book)
Catawissa Car & Foundry Works, Catawissa, Pa.
Central Iron Works, Quincy, Ill.
Chase Foundry & Mfg. Co., Columbus, O.
Chattanooga Car & Foundry Co., Chattanooga, Tenn.
Cleveland Car Co. (End & Side), 148 Scranton, Cleveland, O.
CONTINENTAL CAR & EQUIPMENT Co. (Contractor's One-Way or Three-Way Wood or Steel Cars), Old Colony bldg, Chicago, Ill. (See adv. below)
CONTRACTORS SUPPLY & EQUIPMENT Co., Old Colony bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Davies, Frank, Hennen bldg, New Orleans, La.
Davis, F. M. Iron Works, Denver, Colo.
Denver Engineering Works, Denver, Colo.
DOBBIE FOUNDRY & MACHINE CO., Main Office & Works, Niagara Falls, N. Y. (See adv. index & branch offices, end of book)
FAIRBANKS, MORSE & CO. (Side, Rotary, Hopper Center & Bottom Dump, etc., Wood & Steel), Franklin & Monroe, Chicago, Ill. (See adv. index & branch offices, end of book)
Focht, Geo. Sons, 119 Adams, Hoboken, N. J.
GREGG COMPANY (Ltd.), Newburgh, N. Y. (See adv. index, end of book)
Haskell & Barker Car Co., Michigan City, Ind.
Helmick Foundry & Machine Co., Fairmont, W. Va.
Hicks Locomotive and Car Works (Railroad), 277 Dearborn, Chicago, Ill.

Hockensmith Wheel & Wire Car Co. (Contractors, etc.), Irwin, Pa.
Hunt, C. W. Co., 45 B'way, New York
Works, W New Brighton, S. I., N. Y.
Ingoldsby Automatic Car Co., (Bottom & Side Dump), St. Louis, Mo.
Inter-State Car Co., Indianapolis, Ind.
JEFFREY MFG. CO., Columbus, O. (See adv. index & branch offices, end of book)
Kalamazoo Railway Supply Co. (Contractors'), Kalamazoo, Mich.
Kilbourne & Jacobs Mfg. Co. (Steel Rocker Slide, Bottom Dump, etc.), Columbus, O.
Kilgore, Peteler Co. ("Peteler"), Minneapolis, Minn.
King-Lawson Car Co. ("King-Lawson" Air Power), 29 B'way, New York

MANUFACTURERS OF
**COMPLETE INDUSTRIAL
AND
PORTABLE RAILROADS**
A LARGE STOCK
— OF —

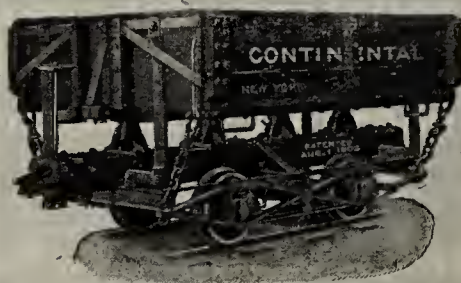
Rails, Steel Ties, Track, Portable Track, Switches, Frogs, Turntables, Wheels, Axles, Crossings, Spare Parts, Locomotives, Etc.

WRITE FOR CATALOG "M"

ARTHUR KOPPEL COMPANY

66-68 Broad Street, New York
1639 Monadnock Blk., Chicago
Machesney Bldg., Pittsburgh
Chronicle Bldg., San Francisco
Works at Koppel, Beaver Co., Pa.

KOPPEL, ARTHUR CO., 68 Broad, New York. (See adv. below & branch offices, end of book)



**CONTINENTAL
RAILWAY AND INDUSTRIAL
CARS**

WE BUILD OUR OWN CARS IN OUR OWN SHOPS

DUMP CARS
CANE OR PLANTATION CARS
LOGGING CARS
MINE CARS
ORE CARS
SPREADER CARS

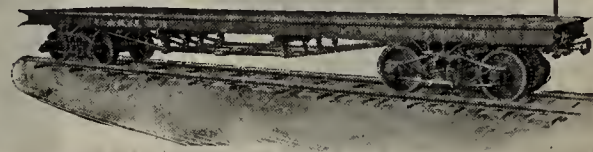
HOPPER CARS
BALLAST CARS
COAL CARS
CLAY CARS
CONCRETE CARS
INDUSTRIAL CARS

PUSH CARS
STEEL CARS
RAILROAD CARS
FLAT CARS
GONDOLA CARS
HOPPER BOTTOM CARS

Continental Car & Equipment Co.

17 BATTERY PLACE
NEW YORK CITY

WRITE FOR CATALOGUE L
AND SPECIFICATIONS



Lawson Car Co., Park row bldg, New York
 Lima Locomotive & Machine Co. (Steel), Lima, O.
 Link Belt Co. (Slide & Bottom Dump, etc.), W. 39th cor. Stewart av. Chicago, Ill., & 299 B'way, New York
 Luedinghaus-Espenschild Wagon Co., St. Louis, Mo.

MEAD-MORRISON MFG. CO., Cambridge (Boston), Mass., & 11 B'way, New York. (See adv. index & branch offices, end of book)

Mine & Smelter Supply Co., Denver, Colo.
 Ohio Ceramic Engin'g Co. (Steel Body Side Rocker Dump, Steel Body End Dump & Wood Body End Dump), Cleveland, O.

Oliver, Wm. J. Mfg. Co. (Contractors all Steel Frame Cars, Automatic Couplers & Air Brakes), Knoxville, Tenn.

Peacock's Iron Works (Steel & Wood), Selma, Ala.

Peteler Portable Mfg. Co., Minneapolis, Minn.
 Phillips, Doup & Co., 56 Pearl, Brooklyn, N. Y.
 Port Huron Engine & Thresher Co., Port Huron, Mich.
 Ramapo Iron Works (Side, End & Bottom Dump), Hillburn, N. Y.

RUSSEL WHEEL & FOUNDRY CO., Detroit, Mich. (See adv. index, end of book)
 Sanford-Day Iron Works, Knoxville, Tenn.

SHAW, WILLIS, 171 Lasalle, Chicago. (See adv. index, end of book)

Sheffield Car Co. (End, Slide, Rotary, Rocker & Centre), Three Rivers, Mich.

Stedman's Foundry & Machine Works (For Perillzer Works), Aurora, Ind.

Stuebner, G. L. Iron Works, 12th & Vernon av. Long Island City, N. Y.

Treadwell, M. H., & Co., 90 West, New York

Truax Mfg. Co. (Jno. T. Plummer, Prop.), (Steel), 1725 Wazee, Denver, Col.

Turl's, Jno. Sons (End, Side & Bottom), 26 Cortlandt, New York; Works: Newburgh, N. Y.

Union Iron Works (Steel), Hoboken, N. J.
 Vulcan Iron Works, Wilkes-Barre, Pittston & Tamaqua, Pa.

WATSON, BENJAMIN, 66 Beaver, New York. (See adv. index, end of book)

Western Wheeled Scraper Co. (Bottom & Slide Dump), Aurora, Ill.

Whitman Agl. Co. (Wood & Steel), 6900 S B'way, St. Louis, Mo.

WIENER, ERNST CO., 68 Broad, New York. (See adv. index, end of book)

Wonham-Magor Engineering Works 29 B'way, New York

Cars (Dumping, Railroad)

Buda Foundry & Mfg. Co., Railway Exchange bldg, Chicago, Ill. Works: Harvey, Ill.

Caswell Car Co., 100 Washington, Chicago, Ill.

Goodwin Car Co., 17 Battery pl, New York.

Cars (Flat)

American Car & Foundry Co., 706 Chestnut, St. Louis, Mo., & 25 Broad, New York

Barney & Smith Car Co., Dayton, O.

CAREY, GEO. H., 1 B'way, New York. (See adv. index, end of book)

CARLIN'S, THOS. SONS CO., 1300 River av, Allegheny, Pa. (See adv. index, end of book)

Catawissa Car & Foundry Works, Catawissa, Pa.

Chase Foundry & Mfg. Co., Columbus, O.

CONTINENTAL CAR & EQUIPMENT Co., 17 Battery pl, New York (See adv. index, end of book)

Davies, Frank, Hennen bldg, New Orleans, La.

FAIRBANKS, MORSE & CO., Frank-lin & Monroe, Chicago, Ill. (See adv. index & branch offices, end of book)

GREGG COMPANY (Ltd.), Newburgh, N. Y. (See adv. index, end of book)

Haskell & Barker Car Co., Michigan City, Ind.

Hicks Locomotive & Car Works, 277 Dearborn, Chicago, Ill.

Hunt, C. W. Co., 45 B'way, New York. Works: W. New Brighton, S. I., N. Y.

Kilbourne & Jacobs Mfg. Co. (Steel, Narrow Gauge), Columbus, O.

KOPPEL, ARTHUR CO., 68 Broad, New York. (See adv. index & branch offices, end of book)

Lehigh Car Wheel & Axle Works, Catasauqua, Pa.

Mount Vernon Car Mfg. Co., Mount Vernou, Ill.

Portland Co., Portland, Me.

Ramapo Iron Works, Hillburn, N. Y.

RUSSEL WHEEL & FOUNDRY CO., Detroit, Mich. (See adv. index, end of book)

Seaboard Car Co., Savannah, Ga.

SHAW, WILLIS, 171 Lasalle, Chi-cago, Ill. (See adv. index, end of book)

Sheffield Car Co. (Wood), Three Rivers, Mich.

South Baltimore Steel Car & Foundry Co., Baltimore, Md.

Stephenson, Jno. Co., Elizabeth, N. J., & 15 Park row, New York

Sterlingworth Railway Supply Co., Easton, Pa.

Stuebner, G. L. Iron Works, 12th & Vernon av. Long Island City, N. Y.

Treadwell, M. H. & Co., 90 West, New York;

WATSON, BENJAMIN, 66 Beaver, New York. (See adv. index, end of book)

Western Wheeled Scraper Co., Aurora, Ill.

WIENER, ERNST CO., 68 Broad, New York. (See adv. index, end of book)

Wonham-Magor Engineering Works 29 B'way, New York

Cars (Foundry)

AKRON CULTIVATOR CO., Akron, O. (See adv. index, end of book)

Atlas Car & Mfg. Co., Cleveland, O.

Byram & Co. (Inc.), 435 Guoin, Detroit, Mich.

CAREY, GEO. H., 1 B'way, New York. (See adv. index, end of book)

Chase Foundry & Mfg. Co., Columbus, O.

Cleveland Car Co., West Park, O.

Focht, Geo. Sons, 119 Adams, Hoboken, N. J.

GREGG COMPANY (Ltd.), Newburgh, N. Y. (See adv. index, end of book)

HARTMAN CO., 1231 N Front, Phila., Pa. (See adv. below)

Hoshor-Platt Co. (Steel), 120 Liberty, New York

Hunt, C. W. Co. (Ladle, etc.), 45 B'way, New York. Works: W. New Brighton, N. Y.

Jackson Mfg. Co., Harrisburg, Pa.

Kilbourne & Jacobs Mfg. Co. (Steel Cupola, Flat, etc.), Columbus, O.

KOPPEL, ARTHUR CO., 68 Broad, New York. (See adv. index and branch offices, end of book)

Lebanon Mfg. Co., Lebanon, Pa.

RUSSEL WHEEL & FOUNDRY CO. Detroit, Mich. (See adv. index, end of book)

Sheffield Car Co., Three Rivers, Mich.

Treadwell, M. H. & Co., 90 West, New York



THE HARTMAN CO., 1231-37 N. Front St. PHILADELPHIA, PA.

SOLE MANUFACTURERS OF

END DUMP LIQUID CINDER CARS.

ALSO MANUFACTURERS OF BLAST FURNACE VALVES, TUYERES, TUYERE COOLERS, ETC..

WATSON, BENJAMIN, 66 Beaver,
New York. (See adv. index, end of book)
WHITING FOUNDRY EQUIPMENT
Co., Harvey, Ill. (See adv. index & branch
offices, end of book)
WIENER, ERNST CO., 68 Broad, New
York. (See adv. index, end of book)
Wonham-Magor Engineering Works, 29 B'way,
New York

Cars (Freight)

American Car & Foundry Co., 706 Chestnut,
St. Louis, Mo., & 25 Broad, New York
Barney & Smith Car Co., Dayton, O.
Brill, J. G. Co., 62d & Woodland av, Phila.,
Pa.
Brinkley Car Works & Mfg. Co., Brinkley, Ark.
CAREY, GEO. H., 1 B'way, New
York. (See adv. index, end of book)
Chattanooga Car & Foundry Co., Chattanooga,
Tenn.
CONTINENTAL CAR & EQUIPMENT
Co., 17 Battery pl, New York. (See adv. in-
dex, end of book)
Erie Car Works, Erie, Pa.
GREGG COMPANY (Ltd.), Newburgh,
N. Y. (See adv. index, end of book)
Hammond, J. & Co., San Francisco, Cal.
Haskell & Barker Car Co., Michigan City, Ind.
HICKS LOCOMOTIVE & CAR
Works, 277 Dearborn, Chicago, Ill.
Interstate Car Co., Indianapolis, Ind.
Keith Car & Mfg. Co., Sagamore, Mass.
KOPPEL, ARTHUR CO., 68 Broad,
New York. (See adv. index and branch offices,
end of book)
Laconia Car Co., 100 Boylston, Boston, Mass.
Works: Laconia, N. H.
Portland Co., Portland, Me.
Pressed Steel Car Co. (Steel), Pittsburg, Pa.
Pullman Co., Pullman bldg, Chicago, Ill.
Ramapo Iron Works, Hillburn, N. Y.
Seaboard Car Co., Savannah, Ga.
South Baltimore Steel Car & Foundry Co.
(Metal, Wood & Composite), Baltimore,
Md.
Standard Steel Car Co. (All Steel & Composite
Steel & Wood), Frick bldg, Pittsburg, Pa.
Sterlingworth Railway Supply Co. (Rolled Steel),
North American bldg., Phila., Pa. Works,
Easton, Pa.
Treadwell, M. H. & Co., 90 West, N. Y.
Wason Mfg. Co., Brightwood, Springfield, Mass.
WATSON, BENJAMIN, 66 Beaver,
New York. (See adv. index, end of book)
Western Steel Car & Foundry Co. (Steel, Wood,
& Composite), Old Colony bldg, Chicago, Ill.
Works: Hegewisch, Ill.
WIENER, ERNST CO., 68 Broad,
New York. (See adv. index, end of book)
Youngstown Car Mfg. Co., Works, Youngstown,
O.

Cars (Gas Coke)

AKRON CULTIVATOR CO., Akron, O.
(See adv. index, end of book)
CAREY, GEO. H., 1 B'way, New
York. (See adv. index, end of book)
Chase Foundry & Mfg. Co., Columbus, O.
Focht, Geo. Sons, 119 Adams, Hoboken, N. J.
GREGG COMPANY (Ltd.), Newburgh,
N. Y. (See adv. index, end of book)

Hunt, C. W. Co., 45 B'way, New York. Works:
West New Brighton, S. I., N. Y.
KOPPEL, ARTHUR CO., 68 Broad,
New York. (See adv. index and branch offices,
end of book)
Ramapo Iron Works, Hillburn, N. Y.
WIENER, ERNST CO., 68 Broad,
New York. (See adv. index, end of book)
Wonham-Magor Engineering Works, 29 B'way,
New York

Cars (Gasoline Railroad)

KOVEN, L. O. & BRO., 50
Cliff, New York. (See adv. index, end of book)
Mack Bros. Motor Car Co., Allentown, Pa., &
Brooklyn, N. Y.
Sbeffield Car Co., Three Rivers, Mich.

Cars (Gondola)

Barney & Smith Car Co., Dayton, Ohio.
Cambria Steel Co., Johnstown, Pa.
CAREY, GEO. H., 1 B'way, New
York. (See adv. index, end of book)
CONTINENTAL CAR & EQUIPMENT
Co., 17 Battery pl, New York. (See adv. in-
dex, end of book)
Hicks Locomotive & Car Works, 277 Dear-
born, Chicago, Ill.
Ralston Car Co. (Self-Cleaning Drop Bottom,
(capacity 100,000 lbs.), Columbus, O.
Treadwell, M. H. & Co., 90 West, New York;
Works: Lebanon, Pa.
WATSON, BENJAMIN, 66 Beaver,
New York. (See adv. index, end of book)

Cars (Hand Dump)

AKRON CULTIVATOR CO., Akron, O.
(See adv. index, end of book)
American Car & Foundry Co., 706 Chestnut,
St. Louis, Mo., & 25 Broad, New York
Buda Foundry & Mfg. Co., Railway Exchange
bldg, Chicago, Ill. Works: Harvey, Ill.
Cambria Steel Co., Arcade bldg, Phila., Pa.;
Works, Johnstown, Pa.
CAREY, GEO. H., 1 B'way, New
York. (See adv. index, end of book)
Chase Foundry & Mfg. Co., Columbus, O.
Clark, Geo. P. Co. (Push or Hand), Windsor
Locks, Conn.
Continental Car & Equipment Co., 17 Battery
pl, New York
Davies, Frank, Hennen bldg, New Orleans, La.
GREGG COMPANY (Ltd.), Newburgh,
N. Y. (See adv. index, end of book)
KOPPEL, ARTHUR CO., 68 Broad,
New York. (See adv. index and branch offices,
end of book)
Lebanon Mfg. Co., Lebanon, Pa.
Peacock's Iron Works, Selma, Ala.
Ramapo Iron Works, Hillburn, N. Y.
RUSSEL WHEEL & FOUNDRY CO.,
Detroit, Mich. (See adv. index, end of book)
Sheffield Car Co. (Wood or Steel), Three Rivers,
Mich.
Stuebner, G. L. Iron Works, 12th & Vernon av,
Long Island City, N. Y.
Treadwell, M. H. & Co., 90 West, N. Y.
WATSON, BENJAMIN, 66 Beaver,
New York. (See adv. index, end of book)
Whitman Agricult'l Co. (Wood), St. Louis, Mo.
WIENER, ERNST CO., 68 Broad,
New York. (See adv. index, end of book)
Wonham-Magor Engineering Works, 29 B'way,
New York

Cars (Hand & Push)

American Car & Foundry Co., 706 Chestnut, St.
Louis, Mo., & 25 Broad, New York
Atlas Car & Mfg. Co., Cleveland, O.
Buda Foundry & Mfg. Co., Railway Exchange
bldg, Chicago, Ill. Works: Harvey, Ill.
CAREY, GEO. H., 1 B'way, New
York. (See adv. index, end of book)
Chase Foundry & Mfg. Co., Columbus, O.
Chattanooga Car & Foundry Co., Chattanooga,
Tenn.
CONTINENTAL CAR & EQUIPMENT
Co., 17 Battery pl, New York. (See adv. in-
dex, end of book)
FAIRBANKS, MORSE & CO., Frank-
lin & Monroe, Chicago, Ill. (See adv. below;
branch offices, end of book)
GREGG COMPANY (Ltd.), Newburgh,
N. Y. (See adv. index, end of book)
Hunt, C. W. Co., 45 B'way, New York. Works:
W. New Brighton, S. I., N. Y.
Kalamazoo Railway Supply Co. (Section), Kala-
mazoo, Mich.
Kilbourne & Jacobs Mfg. Co. (Steel), Columbus,
O.
KOPPEL, ARTHUR CO., 68 Broad,
New York. (See adv. index and branch offices,
end of book)
Lansing Wheelbarrow Co., Lansing, Mich.
Peacock's Iron Works (Iron & Steel), Selma,
Portland Co., Portland, Me.
Railway Cycle Mfg. Co., Hagerstown, Md.
Ramapo Iron Works, Hillburn, N. Y.
Roberts Car & Wheel Co., Three Rivers, Mich.
RUSSEL WHEEL & FOUNDRY CO.,
Detroit, Mich. (See adv. index, end of book)
Sheffield Car Co. (Wood or Steel), Three Rivers,
Mich.
South Baltimore Steel Car & Foundry Co.,
Baltimore, Md., & 66 Beaver, New York
STANDARD SCALE & SUPPLY CO.
(Hand), 243 Water, Pittsburg, Pa. (See
adv. index & branch offices, end of book)
Vicksburg Mfg. Co., Vicksburg, Mich.
WATSON, BENJAMIN, 66 Beaver,
New York. (See adv. index, end of book)
Whitman Agricultural Co. (Wood), 6900 S.
B'way, St. Louis, Mo.
WIENER, ERNST CO., 68 Broad,
New York. (See adv. index, end of book)
Wonham-Magor Engineering Works, 29 B'way,
New York
Zelnicker, Walter A. Supply Co., 408 N 4th, St.
Louis, Mo.

*Cars (Hopper)

CONTINENTAL CAR & EQUIPMENT
Co., 17 Battery pl, New York. (See adv.
index, end of book)
Chase Foundry & Mfg. Co., Columbus, O.
Hicks Locomotive & Car Works, 277 Dearborn,
Chicago, Ill.
Kilbourne & Jacobs Mfg. Co. (Steel, Ash, Ore,
etc.), Columbus, O.

Cars (Hot Metal or Slag)

ALLIS-CHALMERS CO., Milwaukee,
Wis. (See adv. index & branch offices, end
of book)
American Car & Foundry Co., 706 Chestnut, St.
Louis, Mo., & 25 Broad, New York
Atlas Car & Mfg. Co., Cleveland, O.
Byram Co. (Inc.), 435 Guoin, Detroit, Mich.



Sheffield Hand Cars and Push Cars

WITH THE ORIGINAL PRESSED STEEL WHEELS

Are Used by All Prominent Railroads

THE EASIEST RUNNING CARS MADE AND LAST THE LONGEST

Send for Catalogue No. 445 C R.

FAIRBANKS, MORSE & CO.

CHICAGO

No. 12 Dey St., NEW YORK

LONDON



Cleveland Car Co., West Park, O.
Enterprise Boiler Co., Youngstown, O.
Focht, Geo. Sons, 119 Adams, Hoboken, N. J.
GREGG COMPANY (Ltd.), Newburgh,
N. Y. (See adv. index, end of book)
Jackson Mfg. Co., Harrisburg, Pa.
KOPPEL, ARTHUR CO., 68 Broad,
New York. (See adv. index & branch offices,
end of book)

Penn Engineering Works, New Castle, Pa.
Pollock, Wm. B., Co., ("P. T. Berg," for Cinder
& Hot Metal), Youngstown, O.
Ramapo Iron Works, Hillburn, N. Y.
Sheffield Car Co., Three Rivers, Mich.
Treadwell, M. H. & Co., 90 West, N. Y.
Union Foundry & Machine Co., Pittsburg, Pa.
Vulcan Iron Works, Wilkes-Barre, Pa.
Weimer Machine Works Co., Lebanon, Pa.

WHITING FOUNDRY EQUIPMENT
Co., Harvey, Ill. (See adv. index & branch
offices, end of book)
Whitman Agricultural Co., St. Louis, Mo.
WIENER, ERNST CO., 68 Broad,
New York. (See adv. index, end of book)
Wonham-Magor Engineering Works 29 B'way,
New York

Cars (Industrial)

(See also Railways, Industrial)

AKRON CULTIVATOR CO., Akron, O.
(See adv. index, end of book)
ALLIS-CHALMERS CO., Milwaukee,
Wis. (See adv. index & branch offices, end
of book)

Buda Foundry & Mfg. Co., Railway Exchange
bldg, Chicago, Ill. Works: Harvey, Ill.
CANTON FOUNDRY & MACHINE CO.,
Canton, O. (See adv. index, end of book)
CAREY, GEO. H., 1 B'way, New
York. (See adv. index, end of book)
Catawissa Car & Foundry Works, Catawissa,
Pa.

Chase Foundry & Mfg. Co., Columbus, O.
Cleveland Car Co., West Park, O.
CONTINENTAL CAR & EQUIPMENT
Co., 17 Battery pl, New York. (See adv.
index, end of book)

Davies, Frank, Hennen bldg, New Orleans, La.
DODGE MFG. CO., Mishawaka, Ind.
(See adv. index & branch offices, end of book)
Focht, Geo. Sons, 119 Adams, Hoboken, N. J.
Fulton Pit Car Works, Canal, Fulton, O.
GREGG COMPANY (Ltd.), Newburgh,
N. Y. (See adv. index, end of book)

Hunt, C. W. Co., 45 B'way, New York. Works:
W. New Brighton, S. I., N. Y.

Kilbourne & Jacobs Mfg. Co. (For all pur-
poses), Columbus, O.
KOPPEL, ARTHUR CO., 68 Broad,
New York. (See adv. index & branch offices
end of book)

MEAD-MORRISON MFG. CO., Cam-
bridge (Boston), Mass., & 11 B'way, New
York. (See adv. index & branch offices, end
of book)

Ohio Ceramic Engineering Co. (Steel & Wood),
Berea rd, Cleveland, O.
Ramapo Iron Works, Hillburn, N. Y.

RUSSEL WHEEL & FOUNDRY CO.,
Detroit, Mich. (See adv. index, end of book)

STANDARD SCALE & SUPPLY CO.,
243 Water, Pittsburg, Pa. (See adv. index
& branch offices, end of book)

Stuebner, G. L. Iron Works, 12th & Vernon av.
Long Island City, N. Y.

Treadwell, M. H. & Co., 90 West, N. Y.
WATSON, BENJAMIN, 66 Beaver,
New York. (See adv. below)

WIENER, ERNST CO., 68 Broad,
New York. (See adv. index, end of book)
Wonham-Magor Engineering Works, 29 B'way,
New York

Cars (Ingot)

Atlas Car & Mfg. Co. (Steel), Cleveland, O.
Byram & Co. (Inc.), Detroit, Mich.

CAREY, GEO. H., 1 B'way, New
York. (See adv. index, end of book)

Chase Foundry & Mfg. Co., Columbus, O.
Focht, Geo. Sons, 119 Adams, Hoboken, N. J.

GREGG COMPANY (Ltd.), Newburgh,
N. Y. (See adv. index, end of book)

Hunt, C. W. Co., 45 B'way, New York. Works:
W. New Brighton, S. I., N. Y.

KOPPEL, ARTHUR CO., 68 Broad,
New York. (See adv. index & branch offices,
end of book)

Sheffield Car Co. (Steel), Three Rivers, Mich.
Treadwell, M. H. & Co., 90 West, N. Y.

United Engineering & Foundry Co., Farmers'
Bank bldg, Pittsburg, Pa.

WATSON, BENJAMIN, 66 Beaver,
New York. (See adv. below)

WHITING FOUNDRY EQUIPMENT
Co., Harvey, Ill. (See adv. index & branch
offices, end of book)

WIENER, ERNST CO., 68 Broad,
New York. (See adv. index, end of book)
Wonham-Magor Engineering Works 29 B'way,
New York

Cars (Inspection)

American Car & Foundry Co., 706 Chestnut, St.
Louis, Mo., & 25 Broad, New York

Buda Foundry & Mfg. Co., Railway Exchange
bldg, Chicago, Ill. Works: Harvey, Ill.

CAREY, GEO. H., 1 B'way, New
York. (See adv. index, end of book)

FAIRBANKS, MORSE & CO. Frank-
lin & Monroe, Chicago, Ill. (See adv. index
& branch offices, end of book)

Kalamazoo Railway Supply Co., Kalamazoo,
Mich.

KOPPEL, ARTHUR CO., 68 Broad,
New York. (See adv. index & branch offices,
end of book)

Light Inspection Car Co., Hagerstown, Ind.

Olds Motor Works ("Oldsmobile"), Lansing,
Mich.

Peacock's Iron Works, Selma, Ala.

Quincy-Manchester-Sargent Co., Old Colony bldg,
Chicago, Ill., & 114 Liberty, New York

Roberts Car & Wheel Co., Three Rivers, Mich.

Sheffield Car Co., Three Rivers, Mich.

WATSON, BENJAMIN, 66 Beaver,
New York. (See adv. below)

WIENER, ERNST CO., 68 Broad,
New York. (See adv. index, end of book)

Wonham-Magor Engineering Works, 29 B'way,
New York

Cars (Ladle)

Chase Foundry & Mfg. Co., Columbus, O.

Cleveland Car Co., West Park, O.
GREGG COMPANY (Ltd.), Newburgh,
N. Y. (See adv. index, end of book)

Hoshor-Platt Co., 120 Liberty, New York

RUSSEL WHEEL & FOUNDRY CO.,
Detroit, Mich. (See adv. index, end of book)

Variety Iron & Steel Works Co., Cleveland, O.

WHITING FOUNDRY EQUIPMENT
Co., Harvey, Ill. (See adv. index & branch
offices, end of book)

*Cars (Liquid Cinder)

HARTMAN CO. (End Dump), 1231 N
Front, Phila., Pa. (See adv. index, end of
book)

Cars (Logging)

American Car & Foundry Co., 706 Chestnut, St.
Louis, Mo., & 25 Broad, New York

American Locomotive Co., 25 Broad, New York,
& Richmond, Va.

Barney & Smith Car Co., Dayton, O.
Butterworth & Lowe, Grand Rapids, Mich.

CAREY, GEO. H., 1 B'way, New
York. (See adv. index, end of book)

Catawissa Car & Foundry Works, Catawissa,
Pa.

Chase Foundry & Mfg. Co., Columbus, O.

Chattanooga Car & foundry Co., Chattanooga,
Tenn.

Cleveland Car Co., 148 Scranton av, Cleveland,
O.

Climax Mfg. Co., Corry, Pa.

CONTINENTAL CAR & EQUIPMENT
Co., 17 Battery pl, New York. (See adv.
index, end of book)

Davies, Frank, Hennen bldg, New Orleans, La.

Dilley Foundry Co., Pine Bluff, Ark.

Dilliey, Geo. M. & Son, Palestine, Tex.

Erie Car Works, Erie, Pa.

FAIRBANKS, MORSE & CO. Frank-
lin & Monroe, Chicago, Ill. (See adv. pre-
ceding page; branch offices, end of book)

GREGG COMPANY (Ltd.), Newburgh,
N. Y. (See adv. index, end of book)

Hammond, J. & Co., 2 & Townsend, San Fran-
cisco, Cal.

Helmick Foundry & Machine Co., Fairmont,
W. Va.

Hicks Locomotive & Car Works, 277 Dearborn,
Holt Mfg. Co., Stockton, Cal. Chicago, Ill.

Kilby Locomotive & Machine Works, Anniston,
Ala.

KOPPEL, ARTHUR CO., 68 Broad,
New York. (See adv. index & branch offices,
end of book)

Lima Locomotive & Machine Co., Lima, O.

Marshall Car Wheel & Foundry Co., Marshall,
Tex.

North Alabama Engineering Co. (for Pole Roads,
etc.), New Decatur, Ala.

Peacock's Iron Works, Selma, Ala.

Raleigh Iron Works Co., Raleigh, N. C.

Portland Co. (Log Bunks), Portland, Me.

Ramapo Iron Works, Hillburn, N. Y.

RUSSEL WHEEL & FOUNDRY CO.,
Detroit, Mich. (See adv. index, end of book)

Seaboard Car Co., Savannah, Ga.

Sheffield Car Co., Three Rivers, Mich.

South Baltimore Steel Car & Foundry Co., Bal-
timore, Md.

Union Iron Works Co., Selma, Ala.

WATSON, BENJAMIN, 66 Beaver,
New York. (See adv. below)

WIENER, ERNST CO., 68 Broad,
New York. (See adv. index, end of book)

Wonham-Magor Engineering Works, 29 B'way,
New York

Cars (Mine)

Aetna Foundry & Machine Co., Springfield, Ill.

ALLIS-CHALMERS CO., Milwaukee,
Wis. (See adv. index & branch offices, end
of book)

American Car & Foundry Co., 706 Chestnut, St.
Louis, Mo., & 25 Broad, New York

Steel Rails - Cars - Locomotives - Steam Shovels

BENJAMIN WATSON

66-70 BEAVER STREET, (Coffee Exchange Building), NEW YORK

Frogs - Switches - Spikes - Plain and Angle Bars - Bolts and Nuts

Standard and Narrow Gauge Contractors' Locomotives

Dump Cars - Hoisting Engines - Road Rollers - Light Rails

ARCHER IRON WORKS CO. (& Coal, all Kinds), 32 La Salle, Chicago, Ill. (See adv. index, end of book)

Atlas Car & Mfg. Co., Cleveland, O.

Austin Mfg. Co., Manhattan bldg, Chicago, Ill.

Works: Harvey, Ill.

Bartlett, A. F. & Co., Saginaw, Mich.

Buda Foundry & Mfg. Co., Railway Exchange bldg, Chicago, Ill. Works: Harvey, Ill.

CANTON FOUNDRY & MACHINE CO., Canton, O. (See adv. index, end of book)

CAREY, GEO. H., 1 B'way, New York. (See adv. index, end of book)

Catawissa Car & Foundry Works, Catawissa, Pa.

Central Foundry & Car Co., Irvona, Pa.

Central Iron Works, Quincy, Ill.

Chattanooga Car & Foundry Co., Chattanooga, Tenn.

Christman Co. (Dump), Massillon, O.

Cleveland Car Co., 148 Scranton av, Cleveland, O.

Connellsville Machine & Car Co., Connellsville, Pa.

CONTINENTAL CAR & EQUIPMENT Co., 17 Battery pl, New York. (See adv. index, end of book)

CONTRACTORS SUPPLY & EQUIPMENT Co., Old Colony bldg, Chicago, Ill. (See adv. index & branch offices, end of book)

Cresson Foundry, Mach. & Car Co., Ebensburg, Pa.

Danville Foundry & Machine Co., Danville, Ill.

Davis, Frank, Hennen bldg, New Orleans, La.

Davis, F. M. Iron Works Co., 8th & Larimer, Denver, Colo.

Denver Engineering Works, Blake & 30th, Denver, Colo.

Eagle Iron Works (Coal & Ore), Des Moines, Ia.

Ellison, Wm. & Sons Mfg. Co., 1020 N 6th, St. Louis, Mo.

Exeter Machine Works, Pittston, Pa.

FAIRBANKS, MORSE & CO. (Wood & Steel), Franklin & Monroe, Chicago, Ill. (See adv. index & branch offices, end of book)

Focht, Geo. Sons, 119 Adams, Hoboken, N. J.

Globe Iron Works (Inc.), Stockton, Cal.

GREGG COMPANY (Ltd.), Newburgh, N. Y. (See adv. index, end of book)

Gustafson Mfg. Co., Chattanooga, Tenn.

Harman & Hassert, Bloomsburg, Pa.

Haskell & Barker Co., Michigan City, Ind.

Helmann, A. & Bros., Massillon, O.

Helmick Foundry & Machine Co., Fairmont, W. Va.

Hempfield Foundry, Greensburg, Pa.

Hendrick Mfg. Co., Carbondale, Pa.

Hendrie & Bolthoff Mfg. & Supply Co., Denver, Colo.

Herbertson's, J. Sons, Brownsville, Pa.

Herzler & Henninger, Belleville, Ill.

Hockensmith Wheel & Mine Car Co., Irwin, Pa.

Jefferson Mfg. Co., Harrisburg, Pa.

JEFFREY MFG. CO., Columbus, O. (See adv. index & branch offices, end of book)

Johnstown Foundry, Machine & Car Co., Johnstown, Pa.

Kalamazoo Railway Supply Co., Kalamazoo, Mich.

Kenny & Co., Scottdale, Pa.

Kilby Locomotive & Machine Works, Anniston, Ala.

Kilbourne & Jacobs Mfg. Co. (Pressed Steel, Side & Rotary, Dump, Hopper, etc.), Columbus, O.

KOPPEL, ARTHUR CO. ("Steel"), 68 Broad, New York. (See adv. in last column; branch offices, end of book)

Lansing Wheelbarrow Co., (Steel, etc.), Lansing, Mich.

Lehigh Car Wheel & Axle Works, Catasauqua, Pa.

Leyner, J. Geo., Engineering Works Co., Littleton, Col.

Lima Locomotive & Machine Co., Lima, O.

Litchfield Foundry & Machine Co., Litchfield, Ill.

Louisville Machine Co., Louisville, O.

Mine & Smelter Supply Co., Denver, Colo.

Monongahela Mfg. Co., Monongahela, Pa.

Montgomery, J. H. Machinery Co., 1220 Curtis, Denver, Colo.

Nelsonville Foundry & Machine Co., Nelsonville, O.

Niles Mine & Mill Supply Co., Cleveland, O., & Niles, O.

Ohio Ceramic Engineering Co. (Rotary Mining Scoop), Cleveland, O.

Ottumwa Iron Works, Ottumwa, Ia.

Peacock's Iron Works (Steel & Wood), Selma, Ala.

Phillips Mine & Mill Supply Co. (Steel & Wood), Pittsburg, Pa.

Power & Mining Machinery Co., 52 William, New York. Works: Cudahy, Wis.

Pressed Steel Car Co. (Steel & Wooden, with Steel Underframe), Pittsburg, Pa.

Prox, Frank Co., Terre Haute, Ind.

Ramapo Iron Works, Hillburn, N. Y.

RUSSEL WHEEL & FOUNDRY CO., Detroit, Mich. (See adv. index, end of book)

Sanford-Day Iron Works, Knoxville, Tenn.

Scott's Patent Brick Car Co., Knoxville, Tenn.

Sheffield Car Co. (Steel & Wood), Three Rivers, Mich.

South Baltimore Steel Car & Foundry Co., Baltimore, Md.

Spicer Mfg. Co., New Philadelphia, O.

Star Mfg. Co., New Lexington, O.

Stine, S. B. & Son, Osceola Mills, Pa.

Treadwell, M. H. & Co., 90 West Liberty, N. Y.

Truax Mfg. Co. (Jno. T. Plummer, Prop.) (Steel), 1725 Wazee, Denver, Colo.

Turl's, Jno. Sons (Inc.), 26 Cortlandt, New York.

Works: Newburgh, N. Y.

WATSON, BENJAMIN, 66 Beaver, New York. (See adv. index, end of book)

Watt Mining Car Wheel Co. (Steel, etc.), Barnesville, O.

West Penn Foundry & Machine Co., Avonmore, Pa.

WIENER, ERNST CO., 68 Broad, New York. (See adv. index, end of book)

Wonham-Magor Engineering Works (Steel), 29 B'way, New York

*Cars (Motor, Gasoline, Electric)

HICKS LOCOMOTIVE & CAR Works, 277 Dearborn, Chicago, Ill.

Cars (Motor, Inspection)

CAREY, GEO. H., 1 B'way, New York. (See adv. index, end of book)

FAIRBANKS, MORSE & CO. (Gasoline), Franklin & Monroe, Chicago, Ill. (See adv. index & branch offices, end of book)

Kalamazoo Railway Supply Co., Kalamazoo, Mich.

Light Inspection Car Co., Hagerstown, Ind.

Olds Motor Works (Gasoline), Lansing, Mich.

Quincy-Manchester-Sargent Co. (Gasoline), Old Colony bldg, Chicago, Ill., & 114 Liberty, New York

Sheffield Car Co. (Gasoline, etc.), Three Rivers, Mich.

Cars (Ore)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index and branch offices, end of book)

American Car & Foundry Co., 706 Chestnut, St. Louis, Mo., & 25 Broad, New York

ARCHER IRON WORKS CO. (Steel Dumping), 52 La Salle, Chicago, Ill. (See adv. index, end of book)

Atlas Car & Mfg. Co., Cleveland, O.

Barney & Smith Car Co., Dayton, Ohio.

CAREY, GEO. H., 1 B'way, New York. (See adv. index, end of book)

Chase Foundry & Mfg. Co., Columbus, O.

Cleveland Car Co., 148 Scranton av, Cleveland, O.

CONTINENTAL CAR & EQUIPMENT Co., 17 Battery pl, New York. (See adv. index, end of book)

Davis, F. M. Iron Works Co., 8th & Larimer, Denver, Colo.

Denver Engineering Works Co., Blake & 30th, Denver, Colo.

Eagle Iron Works, Terra Haute, Ind.

Erie Car Works, Erie, Pa.

FAIRBANKS, MORSE & CO. (Steel & Wood), Franklin & Monroe, Chicago, Ill. (See adv. index & branch offices, end of book)

Focht, Geo. Sons, 119 Adams, Hoboken, N. J.

Globe Iron Works (Inc.) (Truax Automatic), Stockton, Cal.

Goodwin Car Co., 17 Battery pl, New York

GREGG COMPANY (Ltd.), Newburgh, N. Y. (See adv. index, end of book)

Haskell & Barker Car Co., Michigan City, Ind.

Hendy, J. Machine Works, 38 Fremont, San Francisco, Cal.

Kilbourne & Jacobs Mfg. Co. ("Stagg" Steel, side, rear & rotary dump, Hopper, etc), Columbus, O.

When writing to firms whose names appear in this book please mention

HENDRICKS' COMMERCIAL REGISTER.

KOPPEL, ARTHUR CO., 68 Broad, New York. (See adv. below; branch offices, end of book)

MANUFACTURERS OF COMPLETE INDUSTRIAL AND PORTABLE RAILROADS

A LARGE STOCK

— OF —

Rails, Steel Ties, Track, Portable Track, Switches, Frogs, Turntables, Wheels, Axles, Crossings, Spare Parts, Locomotives, Etc.

WRITE FOR CATALOG "M"

ARTHUR KOPPEL COMPANY

66-68 Broad Street, New York

1639 Monadnock Blk., Chicago

Machesney Bldg., Pittsburgh

Chronicle Bldg., San Francisco

Works at Koppel, Beaver Co., Pa.

Lehigh Car Wheel & Axle Works, Catasauqua, Pa.

Mine & Smelter Supply Co., Denver, Colo.

Mount Vernon Car Mfg. Co., Mount Vernon, Ill.

National Iron Works (Inc.) (Steel), Spokane, Wash.

North Alabama Engineering Co., New Decatur, Ala.

Ohio Ceramic Engin'g Co. (All Steel Side Dump), Cleveland, O.

Peacocks Iron Works (Wood & Steel), Selma, Ala.

Power & Mining Machinery Co., 52 William, New York. Works: Cudahy, Wis.

Ramapoo Iron Works, Hillburn, N. Y.

RUSSEL WHEEL & FOUNDRY CO., Detroit, Mich. (See adv. index, end of book)

Sheffield Car Co., Three Rivers, Mich.

Silver Bros. Iron Works Co., Salt Lake City, Utah

South Baltimore Steel Car & Foundry Co., Baltimore, Md.

Stuebner, G. L. Iron Works, 162 3d, Long Island City, N. Y.

Taylor Engineering Co., 114 Liberty, New York. Works: Allentown, Pa.

Treadwell, M. H. & Co., 90 West, New York; Works: Lebanon, Pa.

Truax Mfg. Co. (Jno. T. Plummer, Prop.) (Automatic), 725 Wazee, Denver, Colo.

Union Iron Works (Inc.), Spokane, Wash.

WATSON, BENJAMIN, 66 Beaver, New York. (See adv. index, end of book)

Watt Mining Car Wheel Co., Barnesville, O.

Weber Gas Engine Co., Kansas City, Mo.

WIENER, ERNST CO., 68 Broad, New York. (See adv. index, end of book)

Wonham-Magor Engineering Works, 29 B'way, New York

Cars (Passenger)

American Car & Foundry Co., St. Louis, Mo., & 25 Broad, New York

Barney & Smith Car Co., Dayton, O.

Bradley, Osgood & Sons, Worcester, Mass.

Brill, J. G. Co., 62d & Woodland av, Phila., Pa.

Buckley, T. H. Mfg. Co., Worcester, Mass.

Hammond, Jno. & Co., 2d & Townsend, San Francisco, Cal.

Harlan & Hollingsworth Corp'n (Sleeping, Parlor, Dining, Baggage, Mail, etc.), Wilmington, Del.

HICKS LOCOMOTIVE & CAR Works, 277 Dearborn, Chicago, Ill.

Jewett Car Co., Newark, O.

KOPPEL, ARTHUR CO., 68 Broad, New York. (See adv. above; branch offices, end of book)

Laeonia Car Co. Works, 100 Boylston, Boston, Mass. Works, Laeonia, N. H.
Niles Car & Mfg. Co., Niles, O.
Pullman Co., Pullman bldg, Chicago, Ill., & 15 Broad, New York
St. Louis Car Co., 8000 N B'way, St. Louis, Mo.
Stephenson, Jno. Co., Elizabeth, N. J.
Wason Mfg. Co., Brightwood, Springfield, Mass.

Cars (Pipe)

Chase Foundry & Mfg. Co., Columbus, O.
Kilbourne & Jacobs Mfg. Co. (Steel), Columbus, O.

Cars (Pit)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index and branch offices, end of book)
Chase Foundry & Mfg. Co., Columbus, O.
Helmick Foundry & Machine Co., Fairmont, W. Va.
United Iron Works Co., Springfield, Mo.

Cars (Plantation)

American Car & Foundry Co., 706 Chestnut, St. Louis, Mo., & 25 Broad, New York
Apex Equipment Co., 11 B'way, New York
Atlas Car & Mfg. Co., Cleveland, O.
Bodley Wagon Co., Memphis, Tenn.
Buda Foundry & Mfg. Co., Railway Exchange bldg, Chicago, Ill.; Works: Harvey, Ill.
Cagney Bros, 74 B'way, New York.

CAREY, GEO. H., 1 B'way, New York. (See adv. index, end of book)
Chattanooga Car & Foundry Co., Chattanooga, Tenn.
Cleveland Car Co., 148 Seranton av, Cleveland, O.

CONTINENTAL CAR & EQUIPMENT Co., 17 Battery pl, New York. (See adv. index, end of book)

Davies, Frank, Hennen bldg, New Orleans, La.
FAIRBANKS, MORSE & CO., Frank-lin & Monroe, Chicago, Ill. (See adv. index & branch offices, end of book)

Focht, Geo. Sons, 119 Adams, Hoboken, N. J.
GREGG COMPANY (Ltd.), Newburgh, N. Y. (See adv. index, end of book)
Hammoud, Jno. & Co., 2d & Townsend, San Francisco, Cal.

JEFFREY MFG. CO., Columbus, O. (See adv. index & branch offices, end of book)
Kalamazoo Railway Supply Co. (Caue), Kalamazoo, Mich.
Kilbourne & Jacobs Mfg. Co. (Steel Standard & Shovel Nose, etc.), Columbus, O.
Kilby Locomotive & Machine Works (Cane), Anniston, Ala.

KOPPEL, ARTHUR CO., 68 Broad, New York. (See adv. index and branch offices, end of book)
Peacock's Iron Works (Steel & Wood), Selma, Ala.

Pioneer Iron Works, 151 William, Bklyn., N. Y.
Ramapo Iron Works, Hillburn, N. Y.

RUSSEL WHEEL & FOUNDRY CO., Detroit, Mich. (See adv. index, end of book)
Seaboard Car Co., Savannah, Ga.
Sheffield Car Co., Three Rivers, Mich.
South Baltimore Steel Car & Foundry Co., Baltimore, Md.

Turl's, Jno. Sons (Inc.), 26 Cortlandt, New York. Works: Newburgh, N. Y.

WATSON, BENJAMIN, 66 Beaver, New York. (See adv. index, end of book)

WIENER, ERNST CO., 68 Broad, New York. (See adv. index, end of book)
Wonham-Magor Engineering Works, 29 B'way, New York

Cars (Plate & Sheet Mill)

Atlas Car & Mfg. Co. (Steel), Cleveland, O.
Cleveland Car Co., Cleveland, O.

DAVIES, FRANK, Hennen bldg., New Orleans, La.

Focht, Geo. Sons, 119 Adams, Hoboken, N. J.
GREGG COMPANY (Ltd.), Newburgh, N. Y. (See adv. index, end of book)

Hunt, O. W. Co., 45 B'way, New York. Works: W. New Brighton, S. I., N. Y.

Jackson Mfg. Co., Harrisburg, Pa.

KOPPEL, ARTHUR CO., 68 Broad, New York. (See adv. index and branch offices, end of book)

Sheffield Car Co. (Steel), Three Rivers, Mich.
WIENER, ERNST CO., 68 Broad, New York. (See adv. index, end of book)

Wonham-Magor Engineering Works, 29 B'way, New York

Cars (Pole Road)

Butterworth & Lowe, Grand Rapids, Mich.
North Alabama Engineering Co., New Decatur, Ala.
South Baltimore Steel Car & Foundry Co., Baltimore, Md., & 66 Beaver, New York

Cars (Quarry)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index and branch offices, end of book)
Truax Mfg. Co. (John T. Plummer, Prop.), Denver, Colo.
Watt Mining Car Wheel Co., Baruesville, O.

Cars (Refrigerator)

CAREY, GEO. H., 1 B'way, New York. (See adv. index, end of book)
Erie Car Works, Erie, Pa.
Hicks Locomotive & Car Works, 277 Dearborn, Chicago, Ill.
Mount Vernon Car Mfg. Co., Mount Vernon, Ill.
WATSON, BENJAMIN, 66 Beaver, New York. (See adv. index, end of book)

Cars (Rotary Tunnel)

Ohio Ceramic Engin'g Co. (Steel Body Mining Scoop), Cleveland, O.
Western Wheeled Scraper Co., Aurora, Ill.

Cars (Second-Hand)

(See also Railroad Equipments, Second Hand.)
Atlantic Equipment Co., 111 B'way, New York
Baldwin Equipment & Supply Co. (Contractors', Dump, etc.), Fisher bldg, Chicago, Ill.

CAREY, GEO. H., 1 B'way, New York. (See adv. index, end of book)
Cincinnati Equipment Co., Culloms Station, Cincinnati, O.

Fitz-Hugh-Luther Co. (Passenger & Freight), Monadnock blk, Chicago, Ill.

Hicks Locomotive & Car Works, 277 Dearborn, Chicago, Ill.

Inter-State Car Co. (Contractors' Cars & Repairs, etc.), Indianapolis, Ind.

Males Co., Traction bldg, Cincinnati, O., & 26 Cortlandt, New York

Mitshkun, M. Co. (Second Hand), Chamber of Commerce, Detroit, Mich.

SHAW, WILLIS (Dumping, Flat, etc.), 171 Lasalle, Chicago, Ill. (See adv. index, end of book)

WATSON, BENJAMIN, 66 Beaver, New York. (See adv. index, end of book)

Wonham-Magor Engineering Works, 29 B'way, New York

Cars (Shop)

AKRON CULTIVATOR CO., Akron, O. (See adv. index, end of book)

CAREY, GEO. H., 1 B'way, New York. (See adv. index, end of book)

Chase Foundry & Mfg. Co., Columbus, O.

GREGG COMPANY (Ltd.), Newburgh, N. Y. (See adv. index, end of book)

Hoshor-Platt Co. (Steel), 120 Liberty, New York

Hunt, C. W. Co., 45 B'way, New York. Works: West New Brighton, S. I., N. Y.

KOPPEL, ARTHUR CO., 68 Broad, New York. (See adv. index and branch offices, end of book)

RUSSEL WHEEL & FOUNDRY CO., Detroit, Mich. (See adv. index, end of book)

WATSON, BENJAMIN, 66 Beaver, New York. (See adv. index, end of book)

WHITING FOUNDRY EQUIPMENT Co., Harvey, Ill. (See adv. index & branch offices, end of book)

WIENER, ERNST CO., 68 Broad, New York. (See adv. index, end of book)

Wonham-Magor Engineering Works, 29 B'way, New York

Zering, H. Mfg. Co. (Track & Floor, Platform Track, etc.), Cincinnati, O.

Cars (Skip)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index and branch offices, end of book)

Atlas Bolt & Screw Co., Marquette opp. Hamilton, Cleveland, O.

Chase Foundry & Mfg. Co., Columbus, O.

JEFFREY MFG. CO., Columbus, O. (See adv. index & branch offices, end of book)

RANSOME CONCRETE MACHINERY Co., Dunellen, N. J. (See adv. index, end of book)

Sheffield Car Co., Three Rivers, Mich.
Truax Mfg. Co. (John T. Plummer, Prop.), Denver, Colo.

Turl's, Jno. Sons, 26 Cortlandt, New York. Works: Newburgh, N. Y.

WELLMAN-SEEVER-MORGAN CO. Cleveland, & Akron, O. (See adv. index, end of book)

Cars (Slag)

(See Cars, Hot Metal or Slag)

Cars (Spreader)

CONTINENTAL CAR & EQUIPMENT Co., 17 Battery pl. New York (See adv. index, end of book)

Mauu-McCann Co. ("McCann's" Spreader & Grader), Fisher bldg, Chicago, Ill.

Western Wheeled Scraper Co., Aurora, Ill.

Cars (Sprinkling, Street Railway)

American Car Sprinkler Co., Worcester, Mass.
Brill, J. G. Co., 62d & Woodland av, Phila., Pa.

Cummings Car Co., 122 N Sangamon, Chicago, Ill.

McGuire-Cummings Mfg. Co., 122 Sangamon, Chicago, Ill.

Smith & Wallace (Electric), Woburn, Mass.

Cars (Steam Shovel)

Cleveland Car Co., Cleveland, O.
Kilbourne & Jacobs Mfg. Co. (Two Way Dump), Columbus, O.

Marion Steam Shovel Co., Marion, O.

South Baltimore Steel Car & Foundry Co., Baltimore, Md.

Western Wheeled Scraper Co., Aurora, Ill.

Cars (Steel)

American Car & Foundry Co., 706 Chestnut, St. Louis, Mo., & 25 Broad, New York

American Steel Foundry Co., 59 Olive, St. Louis, Mo., & 71 B'way, New York. Works: Granite City, Ill.

Barney & Smith Car Co., Dayton, Ohio.

CAREY, GEO. H., 1 B'way, New York. (See adv. index, end of book)

Chase Foundry & Mfg. Co., Columbus, O.

Cleveland Car Co., Cleveland, O.

CONTINENTAL CAR & EQUIPMENT Co., 17 Battery pl. New York (See adv. index, end of book)

Goodwin Car Co., 17 Battery pl, New York.

GREGG COMPANY (Ltd.), Newburgh, N. Y. (See adv. index, end of book)

Helmick Foundry & Machine Co., Fairmont, W. Va.

Kalamazoo Railway Supply Co., Kalamazoo, Mich.

Kilbourne & Jacobs Mfg. Co., Columbus, O.

Lima Locomotive & Machine Co. (Steel Dump), Lima, O.

Pressed Steel Car Co. (Rolled Steel), Pittsburgh, Pa.

Ralston Steel Car Co. (All Classes of Cars), Columbus, O.

Ramapo Iron Works, Hillburn, N. Y.

South Baltimore Steel Car & Foundry Co., Baltimore, Md., & 66 Beaver, New York

Standard Steel Car Co., Erie bldg, Pittsburgh, Pa. & 170 B'way, N. Y. Works, Butler, Pa.

Sterlingworth Railway Supply Co. (Rolled Steel, All Kinds), North American bldg, Phila., Pa. Works, Easton, Pa.

WATSON, BENJAMIN, 66 Beaver, New York. (See adv. index, end of book)

WELLMAN-SEEVER-MORGAN CO., Cleveland, & Akron, O. (See adv. index, end of book)

Western Steel Car & Foundry Co., Old Colony bldg, Chicago, Ill.

Youngstown Car Mfg. Co., Youngstown, O.

Cars (Steel Mining or Dump)

American Car & Foundry Co., 706 Chestnut, St. Louis, Mo., & 25 Broad, New York

Atlas Car & Mfg. Co., Cleveland, O.

CAREY, GEO. H., 1 B'way, New York. (See adv. index, end of book)

Continental Car & Equipment Co., 17 Battery pl, New York

Focht, Geo. Sons, 110 Adams, Hoboken, N. J.
GREGG COMPANY (Ltd.), Newburgh,
 N. Y. (See adv. index, end of book)
 Jackson Mfg. Co. (Side & End Dump), Harris-
 burg, Pa.
KOPPEL, ARTHUR CO., 68 Broad,
 New York. (See adv. below & branch offices,
 end of book)

MANUFACTURERS OF
COMPLETE INDUSTRIAL
AND
PORTABLE RAILROADS
A LARGE STOCK
— OF —
Rails, Steel Ties, Track, Port-
able Track, Switches, Frogs,
Turntables, Wheels, Axles,
Crossings, Spare Parts, Loco-
motives, Etc.
 WRITE FOR CATALOG "M"
ARTHUR KOPPEL COMPANY
 66-68 Broad Street, New York
 1639 Monadnock Blk., Chicago
 Machesney Bldg., Pittsburgh
 Chronicle Bldg., San Francisco
 Works at Koppel, Beaver Co., Pa.

Lansing Wheelbarrow Co., Lansing, Mich.
 Lawson Car Co., Park row bldg, New York
 Lima Locomotive & Machine Co., Lima, O.
 Peacock's Iron Works, Selma, Ala.
 Phillips Mine & Mill Supply Co., Pittsburg, Pa.
 Power & Mining Machinery Co., 52 William,
 New York. Works: Cudahy, Wis.
 Ramapo Iron Works, Hillburn, N. Y.
RUSSELL WHEEL & FOUNDRY CO.,
 Detroit, Mich. (See adv. index, end of book)
 Sheffield Car Co., Three Rivers, Mich.
 South Baltimore Steel Car & Foundry Co., Bal-
 timore, Md.
 Standard Steel Car Co. (All Steel & Composite
 Steel & Wood, Freight), Frick bldg, Pitts-
 burg, Pa.
 Treadwell, M. H. & Co., 90 West, N. Y.
 Truax Mfg. Co. (Jno. T. Plummer, Prop.), 1725
 Wazee, Denver, Colo.
WATSON, BENJAMIN, 66 Beaver,
 New York. (See adv. index, end of book)
WIENER, ERNST CO., 68 Broad,
 New York. (See adv. index, end of book)

*Cars (Stone)

ARCHER IRON WORKS CO. (For
 Quarries, etc.), 32 La Salle, Chicago, Ill.
 (See adv. index, end of book)
DOBBIE FOUNDRY & MACHINE CO.,
 Niagara Falls, N. Y. (See adv. index &
 branch offices, end of book)

Cars (Street & Electric)

American Car Co., St. Louis, Mo.
 American Car & Foundry Co., 706 Chestnut,
 St. Louis, Mo., & 25 Broad New York
 Barney & Smith Car Co., Dayton, O.
 Bradley, Osgood & Sons, Worcester, Mass.
 Briggs Carriage Co., Amesbury, Mass.
 Brill, J. G. Co., 62d & Woodland av, Phila.,
 Pa.
 Buckley, T. H. Car Mfg. Co., Worcester, Mass.
 Cincinnati Car Co., Winton place, Cincinnati, O.
 Cummings Car Co., 122 N Sangamon, Chicago,
 Ill.
 Hammond, Jno. & Co., 2d & Townsend, San
 Francisco, Cal.
 Hicks Locomotive & Car Works, 277 Dearborn,
 Jewett Car Co., Newark, O. Chicago, Ill.
 Jones, J. M. Sons, Watervliet, N. Y.

Kimball Car Co. (Convertible), Zanesville, O.
 Kuhlman G. C. Car Co., Collinwood, O.
 Laclede Car Co., 4500 N. 2d, St. Louis, Mo.
 Laconia Car Co. Works, 100 Boylston, Boston,
 Mass. Works: Laconia, N. H.
 Lawson Car Co., Room 2217 Park Row bldg,
 Niles Car & Mfg. Co., Niles, O. New York
 Pullman Co., Pullman bldg. Chicago, Ill., & 15
 Broad, N. Y.
 St. Louis Car Co., 8000 N B'way, St. Louis, Mo.
 Stephenson, John Co. (Inc.), 15 Park row, New
 York, & Elizabeth, N. J.
 Union Electric Construction Co., The Bourse,
 Phila., Pa.
 Victor Electric Co., Cleveland, O.
 Wason Mfg. Co., Brightwood, Springfield, Mass.
 Wells & French Co., Chicago, Ill.
 Youngstown Car Mfg. Co., Youngstown, O.

Cars (Sugar Cane)

(See Cars, Plantation.)

Cars (Tank)

Bettendorf Axle Co., Davenport, Ia.
 Bryan, E. A. Co., First National Bank bldg,
 Chicago, Ill. Works: Harvey, Ill.
CAREY, GEO. H., 1 B'way, New
 York. (See adv. index, end of book)
 Erie Car Works, Erie, Pa.
GRAVER, WM. TANK WORKS, East
 Chicago, Ind. (See adv. index, end of book)
 Hicks Locomotive & Car Works, 277 Dearborn,
 Chicago, Ill.
 Pressed Steel Car Co., Pittsburg, Pa.
WATSON, BENJAMIN, 66 Beaver,
 New York. (See adv. index, end of book)

*Cars (Tie)

FAIRBANKS, MORSE & CO., Frank-
 lin & Monroe, Chicago, Ill. (See adv. index
 & branch offices, end of book)

Cars (Track Laying)

Buda Foundry & Mfg. Co., Railway Exchange
 bldg, Chicago, Ill. Works: Harvey, Ill.
CAREY, GEO. H., 1 B'way, New
 York. (See adv. index, end of book)
FAIRBANKS, MORSE & CO., Frank-
 lin & Monroe, Chicago, Ill. (See adv. index
 & branch offices, end of book)
GREGG COMPANY (Ltd.), Newburgh,
 N. Y. (See adv. index, end of book)
 Kalamazoo Railway Supply Co., Kalamazoo,
 Mich.
KOPPEL, ARTHUR CO., 68 Broad,
 New York. (See adv. on this page & branch
 offices, end of book)
 Kilbourne & Jacobs Mfg. Co., Columbus, O.
 Peacock's Iron Works, Selma, Ala.
 Ramapo Iron Works, Hillburn, N. Y.
 Roberts Car & Wheel Co., Three Rivers, Mich.
 Sheffield Car Co., Three Rivers, Mich.
 South Baltimore Steel Car & Foundry Co., Bal-
 timore, Md.

*Cars (Traction Engine)

ELECTRIC WHEEL CO. (Heavy
 Truck Cars), Quincy, Ill. (See adv. index,
 end of book)

*Cars (Train)

GREGG COMPANY (Ltd.), Newburgh,
 N. Y. (See adv. index, end of book)

Cars (Tram)

Bodley Wagon Co. (for Sugar Plantations),
 Memphis, Tenn.
CAREY, GEO. H., 1 B'way, New
 York. (See adv. index, end of book)
 Chase Fdry. & Mfg. Co., Columbus, O.
GREGG COMPANY (Ltd.), Newburgh,
 N. Y. (See adv. index, end of book)
 Helmick Foundry & Machine Co., Fairmont, W.
 Va.
KOPPEL, ARTHUR CO., 68 Broad,
 New York. (See adv. on this page & branch
 offices, end of book)
 North Alabama Engineering Co., New Decatur,
 Peacock's Iron Works, Selma, Ala. Ala.
 Ramapo Iron Works, Hillburn, N. Y.
 South Baltimore Steel Car & Foundry Co., Bal-
 timore, Md.
 Truax Mfg. Co. (Jno T. Plummer, Prop.), 1725
 Wazee, Denver, Col.
 Union Iron Works (Inc.), Spokane, Wash.

Cars (Transfer)

BONNOT COMPANY (Double Trans-
 fer), Canton, O. (See adv. index, end of
 book)

CAREY, GEO. H., 1 B'way, New
 York. (See adv. index, end of book)
 Chambers Bros. Co., 52d, below Lancaster av,
 Phila., Pa.

Chase Foundry & Mfg. Co., Columbus, O.
GREGG COMPANY (Ltd.), Newburgh,
 N. Y. (See adv. index, end of book)

Hathorn Foundry & Machine Co., Mason City,
 Ia.

Helmick Foundry & Machine Co., Fairmont, W.
 Va.

Kilbourne & Jacobs Mfg. Co. (Steel), Columbus,
 O.
KOPPEL, ARTHUR CO., 68 Broad,
 New York. (See adv. on this page & branch
 offices, end of book)

Peacock's Iron Works, Selma, Ala.
 Pioneer Iron Works, William & King, Brooklyn,
 N. Y.

RUSSEL WHEEL & FOUNDRY CO.
 (Steel), Detroit, Mich. (See adv. index, end
 of book)

Treadwell, M. H. & Co., 90 West, N. Y.
 Wonham-Magor Engineering Works, 29 B'way,
 New York

Cars (Trolley Repair)

Sheffield Car Co., Three Rivers, Mich.
 South Baltimore Steel Car & Foundry Co., Bal-
 timore, Md.

Cars (Tunnel)

GREGG COMPANY (Ltd.), Newburgh,
 N. Y. (See adv. index, end of book)
KOPPEL, ARTHUR CO., 68 Broad,
 New York. (See adv. on this page & branch
 offices, end of book)

Sheffield Car Co., Three Rivers, Mich.

Cars (Velocipede)

Buda Foundry & Mfg. Co., Railway Exchange
 bldg, Chicago, Ill. Works: Harvey, Ill.
 Butterworth & Lowe (Narrow & Standard
 Gauge), Grand Rapids, Mich.

CAREY, GEO. H., 1 B'way, New
 York. (See adv. index, end of book)
FAIRBANKS, MORSE & CO., Frank-
 lin & Monroe, Chicago, Ill. (See adv. index
 & branch offices, end of book)

Kalamazoo Railway Supply Co., Kalamazoo,
 Mich.

Light Inspection Car Co., Hagerstown, Ind.
 Roberts Car & Wheel Co. (3 & 4-Wheel), Three
 Rivers, Mich.

Sheffield Car Co., Three Rivers, Mich.
 Starbuck's Sons Co., Mattoon, Ill.

Cars (Velocipede, Gasoline Motor)

CAREY, GEO. H., 1 B'way, New
 York. (See adv. index, end of book)
FAIRBANKS, MORSE & CO., Frank-
 lin & Monroe, Chicago, Ill. (See adv. index
 & branch offices, end of book)

Kalamazoo Railway Supply Co., Kalamazoo,
 Sheffield Car Co., Three Rivers, Mich. Mich.

Cars (Warehouse & Factory)

(See Trucks, Store, Warehouse, etc.)

Cars (Wrecking)

(See Cranes, Wrecking.)

Cartridge Mfrs.

Austin Cartridge Co., Cleveland, O.
 Chamberlain Cartridge & Target Co., Cleveland,
 Peters Cartridge Co., Cincinnati, O. O.
 Savage Arms Co., Utica, N. Y.

Union Metallic Cartridge Co. ("U. M. C."), 313
 B'way, New York. Factory, Bridgeport,
 Conn.

U. S. Cartridge Co., 497 Pearl, New York.
 Factory: Lowell, Mass.

Western Cartridge Co., East Alton, Ill.
 Winchester Repeating Arms Co., New Haven,
 Conn.

Carts (Barrel)

(See Carts, Hand & Barrel)

Carts (Coal)

Bodley Wagon Co., Memphis, Tenn.
 Evans, F. H. Co. (Furnaces—Pitch & Tar)
 Lansing Wheelbarrow Co., Lansing, Mich.
 Milburn Wagon Co., Toledo, O.

Carts (Concrete)

Briggs, J. E. Labor Saving Specialty Co.,
 Waterloo, Ia.
 New York Concrete Machinery & Supply Co.
 ("Sterling" Roller Bearing), 78 Murray,
 New York
 Parker Hoist & Machine Co. ("Parker's"), 971
 North Francisco av. Chicago, Ill.
RANSOME CONCRETE MACHINERY
 Co., Dunellen, N. J. (See adv. index, end of
 book)
 Sterling Wheelbarrow Co. ("Sterling" Roller-
 Bearing Wheels), Milwaukee, Wis.

Carts (Dumping)

(See also Wagons, Dumping)

Ames Plow Co., Quincy Hall, Boston, Mass.
 Austin, Tomlinson & Webster Mfg. Co., Jack-
 son, Mich.
 Bodley Wagon Co., Memphis, Tenn.
 Briggs, J. E. Labor Saving Specialty Co.
 ("Lightning"), Waterloo, Ia.
 Bugbee, Chas. L., Hartford, Vt.
 Colfax Mfg. Co., South Bend, Ind.
ELECTRIC WHEEL CO., Quincy, Ill.
 (See adv. index, end of book)
FAIRBANKS, MORSE & CO., Frank-
 lin & Monroe, Chicago, Ill. (See adv. index
 & branch offices, end of book)
 Fish Bros. Wagon Co., Racine, Wis.
 Fort Smith Wagon Co., Fort Smith, Ark.
 Great Western Mfg. Co., Leavenworth, Kan.
 Harrison Wagon Co., Grand Rapids, Mich.
 Hill, Thos. (Steel), 312 Henderson, Jersey City,
 N. J.
 Horton Mfg. Co. (Brick Yard), Painesville, O.
 Kentucky Wagon Mfg. Co., 3d e K, Louisville,
 Ky.
 Kilbourne & Jacobs Mfg. Co., Columbus, O.
 Lansing Wheelbarrow Co., Lansing, Mich.
 Luedinghaus-Espenschied Wagon Co., St. Louis,
 Mo.
 Milburn Wagon Co., Toledo, O.
 Mitchell & Lewis Co., Racine, Wis.
 Owensboro Wagon Co., Owensboro, Ky.
 Sanford, A. Logging Tool Co., Oshkosh, Wis.
 Schuttler & Hotz, 22d & Rockwell, Chicago, Ill.
 Senderling Mfg. Co., 540 Grand, Jersey City,
 N. J.
 Sherman, I. N. W., 144 S Green, Chicago, Ill.
 Smith & Sons Mfg. Co., Kansas City, Mo.
 Studebaker Bros. Mfg. Co., South Bend, Ind.
 Sweet, B. F. & H. L. Co., Fond-du-Lac, Wis.
 Tiffin Wagon Co., Tiffin, O.
 Warren Improvement Co., San Francisco, Cal.
 Watson Wagon Co., Canastota, N. Y.
 Wellington Machine Co. (Brick, etc.), Welling-
 ton, O.
 Western Wheeled Scraper Co., Aurora, Ill.
 White Hickory Wagon Mfg. Co., 47 S Broad,
 Atlanta, Ga.
 Winona Wagon Co., Winona, Minn.
 Wright, Thos. Co., Jersey City, N. J.
 Zering, H. Mfg. Co., Cincinnati, O.

Carts (Garbage)

(See Wagons, Garbage, etc.)

Carts (Hand and Barrel)

Arnold, D. J. C., New London, O.
 Aubeuf, Frank J., Oneida, N. Y.
 Belle City Mfg. Co., Racine, Wis.
 Gendron Wheel Co., Toledo, O.
 Hayes Pump & Planter Co., Galva, Ill.
 Keystone Farm Machine Co. (with Combined
 Truck), York, Pa.
 Kilbourne & Jacobs Mfg. Co. ("St. Louis,"
 "Jubilee," "Buckeye," hand), Columbus, O.
 Lansing Wheelbarrow Co., Lansing, Mich.
 Lean, Roderick Mfg. Co. ("Butler" Steel Hand
 Cart), Mansfield, O.
 Monarch Road Roller Co. ("Monarch"), Groton,
 Patten, Frank C. Co., Sycamore, Ill. N. Y.
 Puffer-Hubbard Mfg. Co. (Steel Frames), Min-
 neapolis, Minn.
 Sandwich Mfg. Co., Sandwich, Ill.
 Studebaker Bros. Mfg. Co., South Bend, Ind.
 Syracuse Chilled Plow Co., Syracuse, N. Y.
 Vicksburg Mfg. Co., Vicksburg, Mich.
 Whitehurst, R. W. Co., Norfolk, Va.
 Zering, H. Mfg. Co., Cincinnati, O.

***Carts (Hand, Street Sweeping)**

ACME ROAD MACHINERY CO.,
 Frankfort, N. Y. (See adv. index, end of
 book)

Carts (Harrow)

Western Implement Co., Port Washington, Wis.

Carts (Hose)

(See Hose Carriages & Carts)

Carts (Linemen's)(See also Wagons, Linemen's; also Cars, Trol-
 ley Repair)

Dicke Tool Co., Downers Grove, Ill.
 Whalen, J. B. Co., Sycamore, Ill.

Carts (Logging)

Bodley Wagon Co., Memphis, Tenn.
ELECTRIC WHEEL CO., Quincy, Ill.
 (See adv. index, end of book)
 Lansing Wheelbarrow Co., Lansing, Mich.
 Sanford, A. Logging Tool Co., Oshkosh, Wis.
 Schwartz, Jos. Co. (Ltd.), New Orleans, La.
 Southern Supply Co., Mobile, Ala.
 White, F. W., Pearl River, La.
 Zelnicker, Walter A. Supply Co., 408 N. 4th,
 St. Louis, Mo.

***Carts (Lumber)**

ARCHER IRON WORKS CO. (All
 Kinds), 32 La Salle, Chicago, Ill. (See adv.
 index, end of book)

***Carts (Pickup or Beam)**

DOBBIE FOUNDRY & MACHINE CO.,
 Niagara Falls, N. Y. (See adv. index &
 branch offices, end of book)

Carts (Push)

(See Carts, Hand & Barrel)

Carts (Railroad)

Ames Plow Co., Quincy Hall, Boston, Mass.
 Bain Wagon Co., Kenosha, Wis.
 Bodley Wagon Co., Memphis, Tenn.
 Kilbourne & Jacobs Mfg. Co., Columbus, O.
 Luedinghaus-Espenschied Wagon Co., 1713 N
 B'way, St. Louis, Mo.
 Milburn Wagon Co., Toledo, O.
 Studebaker Bros. Mfg. Co., South Bend, Ind.

Carts (Road Spreading)

American Road Machine Co. (For Spreading
 Road Materials for Macadam Roads), Ken-
 nett Square, Pa.
 Eagle Wagon Works, Auburn, N. Y.
 Good Roads Machinery Co., Kennett Square,
 Pa.
 Port Huron Engine & Thresher Co. (also Wag-
 ons), Port Huron, Mich.

Carts (Sprinkling)

(See also Stree Sprinkling Carts & Wagons)
 Port Huron Engine & Thresher Co., Port Huron,
 Milwaukee Wagon Co., Toledo, O. Mich.
 Studebaker Bos. Mfg. Co., South Bend, Ind.

Carts (Transfer)

Bodley Wagon Co. (up to 14 feet Height of
 Wheels), Memphis, Tenn.

Carvers (Stone)

Eagle & Son, Washington, D. C.
 Ellin, Kitson & Co., 25th & N. R., New York
 Entress, Albert, 599 Main, Hartford, Conn.
 Evans, John & Co., 77 Huntington av, Boston,
 Mass.
 King, E. C. & Son (Arch'l also Modelers),
 Westerlo, R. I.
 Miranda, Fernando, 524 W 30th, New York
 Nygard, Alfred F., 68 Cass, Detroit, Mich.
 Phelps, Richard B., 9th nr R. I., N. E., Wash-
 ington, D. C.
 Richard, L., (Arch'l), 110 West End av, N. Y.
 Rochette & Parzini, 719 1st av, New York
 Schellentrager, Louis F., Seneca & Long, Cleve-
 land, O.

SEIFERT, FRANK A., PLASTIC RE-
 lief Co., 2646 Lawton av, St. Louis, Mo.
 (See adv. index, end of book)

Smith, Jos. & Co., 428 E 23d, New York
 Van Malderen, F. T., Ann & Jumonville, Pitts-
 burg, Pa.
 Whitman, J. F. Co., 435 N 12th, Phila., Pa.

Carvers, Wood (Classic)

American Carving & Mfg. Co., 900 Granville
 av, Grand Rapids, Mich.
 Anderhub, Anton, 65 14th av, Newark, N. J.
ARCHITECTURAL DECORATING CO.,
 643 S Jefferson, Chicago, Ill. (See adv. in-
 dex, end of book)
 Brown, O. L., 136 Dorrance, Providence, R. I.
 Buehner, A. & Co., 220 N 2d, St. Louis, Mo.
 Buffalo Grille Co., 270 Court, Buffalo, N. Y.
DECORATORS' SUPPLY CO., Archer
 av & Lco, Chicago, Ill. (See adv. index,
 end of book)
 Dowler, Charles, 33 Eddy, Providence, R. I.
 Dux, Jos., 132 W Jackson boul, Chicago, Ill.
 Eastman & Johnstone Mfg. Co., 1711 St Charles,
 St. Louis, Mo.
 Ellin, Kitson & Co., 13th av, cor W 25th, N. Y.
EMMEL, CHAS., 383 Albany, Boston,
 Mass. (See adv. index & branch offices,
 end of book)
 Evans, John & Co., 77 Huntingdon av, Boston,
 Mass.

Fowle, Herbert, 43 Bristol, Boston, Mass.
 Gossert, Henry, 320 Harmony, Phila., Pa.
 Grand Rapids Carved Moulding Co., Grand
 Rapids, Mich.
 Grand Rapids Wood Carving Co., Grand Rapids,
 Mich.
 Haigermoser, Jos., 250 Randolph, Detroit,
 Mich.
 Hake, Chas. W. Mfg. Co. (Hand), Grand
 Rapids, Mich.

Hartmann, John 13 N Jefferson, Chicago, Ill.
 Holmes, Jos., 655 E 6th, Boston, Mass.
 Lamb, J. & R., 59 Carmine, N. Y.
 Nelson, C. T. Co., 323 Dublin av, Columbus, O.
 Nygard, Alfred F., 68 Cass, Detroit, Mich.
 Peirce, W. E. & Co., Milford, N. H.
 Pride, Willis A., 43 Bristol, Boston, Mass.
 Richard, Louis, 110 West End av, N. Y.
 Rochette & Parzini, 719 1st av, New York
 Root, C. R., 104 Asylum, Hartford, Conn.
 Schellentrager, Louis F. Seneca & Long, Cleve-
 land, O.

Schneider, F. H., 120 Burnet, Syracuse, N. Y.
SEIFERT, FRANK A., PLASTIC RE-
 lief Co., 2646 Lawton av, St. Louis, Mo.
 (See adv. index, end of book)
SLEEP, ELLIOTT & KING CO., INC.,
 562 W 23d, New York. (See adv. index &
 branch offices, end of book)
STEARNS, A. T. LUMBER CO., Ne-
 ponset, Boston, Mass. (See adv. index, end
 of book)
 Thomas & Co., Worcester, Mass.
 Van Malderen, F., Ann & Jumonville, Pitts-
 burg, Pa.
 Waddell Mfg. Co., Grand Rapids, Mich.
 Whitman, J. F. Co., 435 N 12th, Phila., Pa.

Case Hardening(See also Compounds, Case Hardening &
 Tempering)

COES, LORING, & CO. (Inc.), Wor-
 cester, Mass. (See adv. index, end of book)
CROSBY CO., 171-189 Pratt, Buffalo,
 N. Y. (See adv. index, end of book)
 Durbrow & Hearne Mfg. Co., 12 Wooster, New
 York
 Dyson, Jos. & Son (also Annealing & Carboniz-
 ing), Cleveland, O.
WORCESTER PRESSED STEEL CO.,
 Worcester, Mass. (See adv. index, end of
 book)

Casein*HAMILTON CO., 16 S William, New**
 York.**Cases (Steel Bottle)**

American Steel Package Co., Defiance, O.

Cash Carriers

Acme Cash Railway Co. ("Acme," Basket or
 Parcel Carriers), New Haven, Conn.
 Auld, F. L., Cambridge, Mass.
 Barr Cash & Package Carrier Co., Mansfield, O.
 Bostedo Pneumatic Tube Co., 200 Monroe, Chi-
 cago, Ill.
 Burgess, E. A. (Est. of) (also Bundle Carriers),
 New Haven, Conn.

Independent Cash Carrier Co. (Cable System), Springfield, Mass.
 Lamson Consolidated Store Service Co., 161 Devonshire, Boston, Mass.
 Taisey Pneumatic Service Co., Indianapolis, Ind.
 Pearsall Pneumatic Tube & Power Co., 500 5th av, New York
 Universal Pneumatic Despatch Co., 231 S Canal, Chicago, Ill.

Cash or Money Drawers

Chicago Scale Co., 394 W Jackson boul, Chicago, Ill.
 Fernald Mfg. Co., North East, Pa.
 Nashua, Till Co. (Alarm Tills), Nashua, N. H.
 Presbrey & Son (Alarm Money Till), Providence, R. I.
 Quincy Show Case Works (Alarm or Gong), Quincy, Ill.
 Suu Mfg. Co. ("English & German"), Columbus, O.
 Tucker & Dorsey Mfg. Co., Indianapolis, Ind.
 Wood, E. O., Nashua, N. H.

Casing (Steam Pipe)

(See also Pipe, Wooden)

American District Steam Co., Lockport, N. Y.
 Michigau Pipe Co., Bay City, Mich.
 Puget Sound Pipe Co., Olympia, Wash.

*Casings (Metal)

DAHLSTROM METALLIC DOOR CO., Jamestown, N. Y., & 299 B'way, New York.
 (See adv. index, end of book)

Cast Iron Brazing

A. & J. Mfg. Co. ("Brazison"), 16 S Canal, Chicago, Ill.
 Ferrofix Brazing Co., 2024 Cuthbert, Phila., Pa.
 Hopkins Bros. Springer Co. ("Springer's Brazol"), Des Moines, Ia.
 New York Brazing Co. ("Ferrofix"), 196 11th av, New York
 New York Brazing Co., 797 G'wich, New York
 Standard Brazing Co., 88 Broad, Boston, Mass.

Cast Iron Filler

(See Cements, Iron Filler)

Cast Iron Fittings (Green House)

(See Fittings Cast Iron, Green House)

Cast Iron Pipe (High Pressure)

Coldwell-Wilcox Co. (for Steam or Water), Newburgh, N. Y.
 Wood, R. D. & Co. (for Fire Protection), 400 Chestnut, Phila., Pa.

Cast Iron Pipe Mfrs. (Gas & Water)

American Car & Foundry Co. (3 to 16-inch), 706 Chestnut, St. Louis, Mo., & 25 Broad, New York
 Builders' Iron Foundry (also Fittings of all Kinds for same), Providence, R. I.
 Central Foundry Co., 116 Nassau, New York
 Clow, James B. & Sons (2 to 48-inch), Chicago, Ill.
 Colorado Fuel & Iron Co. (4 to 20 inch), Denver, Colo.
 Dimmick Pipe Co., Birmingham, Ala.
 Donaldson Iron Co. (1½ to 20-inch), Emaus, Pa.
 Drummond, M. J. & Co., 182 B'way, New York
 Fox, Jno. & Co. (Mfrs. Agts.), 253 B'way, New York
 General Fire Extinguisher Co., Providence, R. I.
 Glamorgan Pipe & Foundry Co. (1½ to 36-inch), Lynchburg, Va.
 Lynchburg Foundry Co., Lynchburg, Va.
 Massillon Iron & Steel Co. (Also flange Pipe & Fittings), Massillon, O.
 Oregon Iron & Steel Co. (4 to 32-inch), Portland, Ore. Works: Oswego, Ore.
 U. S. Cast Iron Pipe & Foundry Co. (Gas & Water, Sewer & Sulvert, 3 to 72-inch), 71 B'way, New York
 Utica Pipe Foundry Co. (3 to 30-inch), Charles Millar & Son Co., Selling Agents, Utica, N. Y.
 Warren Foundry & Machine Co. (3 to 48-inch), Phillipsburg, N. J., & 170 B'way, N. Y.
 Wood, R. D. & Co. (1 to 72-inch), 400 Chestnut, Phila., Pa.

Cast Iron Soil Pipe & Fittings Mfrs.

(For Jobbers of these Goods, see Plumbers' Supplies, Jobbers)

Abendroth Bros. (Corp.) (2 to 8-inch), 109 Beekman, New York
 American Foundry & Pipe Co. (3 to 12-inch), Park bldg, Pittsburg, Pa. Works: Penn Station, Pa.
 American Soil Pipe & Foundry Co., Bessemer, Ala.
 Bessemer Soil Pipe Co., Bessemer, Ala.
 Birmingham Pipe & Casting Co. (2 to 12-inch), Birmingham, Ala.
 Caldwell, E. R. & Co. (Fittings only), Bradford, Pa.
 Cedar Rapids Pump Co., Cedar Rapids, Iowa
 Central Foundry Co. (All Sizes), 116 Nassau, New York
 Charlotte Pipe & Foundry Co., Charlotte, N. C.
 Chattanooga Pipe & Foundry Co., Chattanooga, Tenn.
 Crown Casting Co. (up to 8-inch), Jackson, O.
 Coosa Pipe & Foundry Co., Gadsden, Ala.
 Crown Casting Co. (up to 8-inch), Jackson, O.
 Enterprise Foundry Co., 48 Olean Rochester, Essex Foundry, Newark, N. J.
 Estabrook's, R. Sons ("Sissou" Inseparable Joint), 204 W 1st, S. B., Boston, Mass.
 Franklin Foundry Co., 1155 S Paulina, Chicago.
 Gadsden Pipe & Foundry Co., Gadsden, Ala.
 General Fire Extinguisher Co., Providence, R. I.
 Gleun Mfg. Co. (Extra Heavy Pipe only and Complete Line of Fittings, Standard & Heavy), St. Charles, Ill.
 Haines, Jones & Cadbury Co., 1136 Ridge av., Hallman Oliver, Mount Clair, Pa.
 Hercules Iron & Supply Co., Commercial & Hanover, Boston, Mass., & Anniston, Ala.
 High Point Pipe & Foundry Co., High Point, N. C.
 Ideal Mfg. Co. (Fittings only), 546 Franklin, Detroit, Mich.
 Independent Foundry Co., Lancaster, Pa.
 Iowa Mfg. Co., Oskaloosa, Ia.
 McVay & Walker, Braddock, Pa.
 Medina Foundry Co., Medina, N. Y.
 Michigan Heater Co., Big Rapids, Mich.
 Millar, Chas. & Son Co., Utica, N. Y.
 Mitchell & Van Meter Co., Linfield, Pa.
 Mott, J. L. Iron Works, 88 Beekman, New York
 National Foundry Co. (2 to 10-inch), 32 Sanford, Brooklyn, N. Y.
 Nelson, N. O. Mfg. Co., 8th & St. Charles, St. Louis, Mo.
 North Western Foundry & Supply Co., Orleans nr Grand boul, Detroit, Mich.
 Reading Scale & Machine Co. (Extra Heavy), Reading, Pa.
 Ronalds & Johnson Co. (2 to 15-inch), 43 Boerum pl, Brooklyn, N. Y.
 Seattle Supply Co., Seattle, Wash.
 Stockholm Pipe & Fittings Co., Birmingham, Ala.
 Utica Pipe Foundry Co. 2 to 6-inch, Charles Millar & Son Co., Selling Ag'ts, Utica, N. Y.
 Wetter, H. Mfg. Co., Memphis, Tenn. Works: S. Pittsburg, Tenn.
 Wolff, L. Mfg. Co. (2 to 12-inch), 117 W Lake, Chicago, Ill.

Casters

Acme Ball Bearing Caster Co., Chappaqua, N. Y.
 Clark Caster Co., Plainville, Conn.
 Clark, Geo. P. Co. (Anti-Friction), Windsor Locks, Conn.
 Coleman Hardware Co. (Furniture, Stoves, etc.), 168 Michigan av, Chicago, Ill.
 Dearborn Hardware Co., 488 Carroll av, Chicago, Ill.
 Duer, Jno. & Sons (Furniture), Baltimore, Md.
 Foster, Merriam & Co. (of Every Description), Meriden, Conn.
 Payson Mfg. Co. (Anti-Friction), 1319 W Jackson boul, Chicago, Ill.
 Johnston & Sharp Mfg. Co. (Ball-Bearing Furniture Rollers), Ottumwa, Ia.
 Loeffholz Co. ("Nonesuch" Furniture & Trunk Rollers), Milwaukee, Wis.
 Michigan Stove & Caster Co. (Furniture, etc.), Grand Rapids, Mich.
 National Caster Co. (Piano, Refrigerator, etc.), Hamilton, O.
 National Supply Co., 7 W Lombard, Baltimore, Md.
 Nickel Mfg. Co. ("Stamped Steel, Grip Neck"), Morris, Ill.
 Phoenix Caster Co. (Furniture, etc.), Indianapolis, Ind.
 Schriver, O. P. & Co. (Common Sense Anti Friction Furniture & "Hercules" Truck Cast & Malleable Iron), 208 Elm, Cincinnati, O.

Schenck, M. B. Co. ("Yale & Gem" Roller Bearing Furniture & Truck), Meriden, Conn.
 Stengel Mfg. Co. (Furniture, etc.), Hamilton, O.
 Tucker & Dorsey Mfg. Co. ("Martin," "Tucker," "Boss" & "Stengel," Furniture, Casters), Indianapolis, Ind.
 Universal Caster & Foundry Co. (Ball-Bearing Piano, Bedstead, Furniture, etc.), 1170 B'way, New York. Factory: Newark, N. J.
 Wrightsville Hardware Co. (Furniture, etc.), Wrightsville, Pa.

Casters (Truck)

Dearborn Hardware Co., 488 Carroll av, Chicago, Ill.
 Kilbourne & Jacobs Mfg. Co., Columbus, O.
 Lansing Wheelbarrow Co., Lansing, Mich.
 National Caster Co. (Casters & Wheels, Rubber Tired), Hamilton, O.
 Reading Hardware Co., Reading, Pa.
 Tatum, Samuel C. Co., 414 W Water, Cincinnati, O.
 Tucker & Dorsey Mfg. Co. (also Furniture, etc.), Indianapolis, Ind.
 Universal Caster & Foundry Co., 1170 B'way, New York. Factory: Newark, N. J.
 Zering, M., Mfg. Co. (Ball Bearing), Cincinnati, O.

Casters & Wheels (Rubber Tired)

Continental Rubber Works, Erie, Pa.
 Tucker & Dorsey Mfg. Co., Indianapolis, Ind.

Castings (Air Furnace)

American Foundry & Construction Co., 4716 2d av, Pittsburg, Pa.
 Birdsboro Steel Foundry & Machine Co., Birdsboro, Pa.
 Buffalo Foundry Co., Buffalo, N. Y.
 Builders' Iron Foundry (Gun Iron Air Furnace), Providence, R. I.
 Dimmick Pipe Co., Birmingham, Ala.
 Fischer Foundry & Machine Co. (Light & Heavy), Pittsburg, Pa.
 Lehigh Foundry Co. (Up to 50 Tons), Fullerton, Pa.
 Ohio Machine Co., Middleport, O.
 Phila. Roll & Machine Co. (Heavy), S 23d & Washington av, Phila., Pa.
 Phila. Steel & Iron Co. (Atlas Steel), Frankford, Phila., Pa.
 Reading Iron Co., Reading, Pa.
 Sterlingworth Railway Supply Co., North American bldg., Phila., Pa. Works: Easton, Pa.
 Troy Malleable Iron Co., Troy, N. Y.
WHITING FOUNDRY EQUIPMENT Co., Harvey, Ill. (See adv. index & branch offices, end of book)

Castings (Aluminum)

Acme Foundry Co., Newark, N. J.
 Acorn Brass Mfg. Co., 51 N Peoria, Chicago, Ill.
 Allyn Brass Foundry Co., 7 Schiely Ct, Cleveland, O.
 Allyn Brass Foundry Co. of Michigan, Detroit, Mich.
 Aluminum Co. of America, Pittsburg, Pa.
 Aluminum Foundry Co., Manitowoc, Wis.
 Aluminum & White Metal Mfg. Co., 336 B'way, New York, & White Stone, N. Y.
 Anderson, A. H., 52 N Ann, Chicago, Ill.
 Angus, C. H. Co., Albany, N. Y.
 Bailey-Farrell Mfg. Co., Pittsburg, Pa.
 Bastian, C. L. Mfg. Co., 76 Illinois, Chicago, Ill.
 Bay State Brass Foundry, 155 A, S Boston, Mass.
 Beaupre, F. D. & Co., East Concord, N. H.
 Beaver Valley Metal Co., New Brighton, Pa.
 Best Light Co., Canton, O.
 Bird Brass Works, Fort Worth, Tex.
 Brass Foundry & Heating Co., Peoria, Ill.
 Bridgeport Deoxidized Bronze & Metal Co., Bridgeport, Conn.
 Brighton Brass & Bronze Co., New Brighton, Pa.
 Buckeye Brass Foundry, Cleveland, O.
 Buckeye Brass Foundry (Vine & Armstrong), Columbus, O.
 Buckeye Iron & Brass Works, Dayton, O.
 Buescher Band Instrument Co., Elkhart, Ind.
 Builders' Iron Foundry (Light & Heavy), Providence, R. I.
 Cadman, A. W. Mfg. Co., 2814 Smallman av, Pittsburg, Pa.
 Capital Brass Works, Detroit, Mich.
 Chambers & Ainslee, Newark, N. J.
 Champion Safety Lock Co., Geneva, O.
 Chapman, J. B. & Co., Springfield, Mass.
CINCINNATI MFG. CO., 1243 W 6th, Cincinnati, O. (See adv. index, end of book)

City Brass Foundry Co., Cleveland, O.
 Clark, John W., Albany, N. Y.
 Clum & Atkinson, Rochester, N. Y.
 Crown Smelting Co., Chester, Pa.
 Detroit Motor Casting Co., Detroit, Mich.
 Eastwood Wire Mfg. Co., $\frac{1}{4}$ oz. to 20,000 lbs.),
 Belleville, N. J.
 Eclipse Foundry Co., Crawford, Detroit, Mich.
 Enterprise Foundry Co., Detroit, Mich.
 Enterprise Foundry Co., 48 Olean, Rochester,
 N. Y.

Eureka Tempered Copper Works, North East
 Everhard Brass Works, Scranton, Pa.
 Eynous-Evans Mfg. Co., 15th & Clearfield, Phila.,
 Pa.

Fairfield Aluminum Foundry, Southport, Conn.
 Franklin, H. H. Mfg. Co., Syracuse, N. Y.
 Fries & Co., 91 Main, Buffalo, N. Y.
 Gilroy & Johnson, Utica, N. Y.
 Graham, Jas. & Co., New Haven, Conn.
 Great Lakes Brass Foundry, Detroit, Mich.
 Hackett Bros., Detroit, Mich.
 Halstead & Co., 1129 Cherry, Phila., Pa.
 Hampden Brass Co., Springfield, Mass.
 Hardoin Brass Works, 180 Brush, Detroit, Mich.
 Harring-Attwood Brass Mfg. Co. (Heavy), Grand
 Rapids, Mich.

Hauck Mfg. Co., 322 W Pearl, Cincinnati, O.
 Hecla Iron Works, 118 N 11th, Brooklyn, N. Y.
 Hendryx, Andrew B. Co., New Haven, Conn.
HENRY-BONNARD BRONZE CO.,
 Sales Office, 5 & 7 E 42d, New York. Works:
 Mt. Vernon, N. Y. (See adv. index, end of
 book)

Hercules Float Wks, Springfield, Mass.
 Hewitt, John Foundry Co., East Newark, New-
 ark, N. J.
 Hofeller Brass Foundry Co., 146 Virginia, Buf-
 falo, N. Y.
 Hofeller-Brooks Aluminum & Brass Fdy Co., 74
 Fort, E. Detroit, Mich.
 Higgins & Co., Holyoke, Mass.
 Hoban Brass Foundry Co., 44 Wyandot, Day-
 ton, O.
 Holton & Weatherwax Co. (L. & I.), Jackson,
 Mich.

Hoyt, Frank, Muskegon Heights, Mich.
 Hughes Bros., Scranton, Pa.
 Ideal Bronze Co., Cleveland, O.
 Imperial Brass Mfg. Co., 245 S Jefferson, Chi-
 cago, Ill.

Indianapolis Aluminum Co., Indianapolis, Ind.
 Ireland & Matthews Mfg. Co., Detroit, Mich.
 Jefferson Brass Foundry, 209 King, Brooklyn.
 Jenkins Mfg. Co., Bloomfield, N. J.
 Johnson Service Co., Milwaukee, Wis.
 Jones, Jas. Co., Los Angeles, Cal.
 Kells Foundry & Machine Co., Adrian, Mich.
 Kettler, M. F. Brass Foundry, Dallas, Tex.
 Kingsland-Kay-Cook Mfg. Co., Mullanphy & 11th
 Krisher, P. A., Akron, O.
 Langsenkamp Bros. Brass Works, 140 E Geor-
 gia, Indianapolis, Ind.

Leslie Co. (Inc.), (Bronze), Lyndhurst, N. J.
 Levett, Walker M., 462 10th av, New York
 Light Mfg. & Foundry Co., Pottstown, Pa.
 Livermore, Homer F., 85 Pearl, Boston, Mass.
LUMEN BEARING CO., Buffalo, N. Y.
 (See adv. index, end of book)

**LUNKENHEIMER CO., General Of-
 fices & Works, Beekman & Waverly, Cin-
 cinnati, O. (See adv. index & branch of-
 fices, end of book)**

McCafferty, J. H. & Co., 434 Harrison av, Bos-
 ton, Mass.
 McCartney, Josiah, Bay City, Mich.
 McHatton Smelting Co., 1500 Wash'n av., Phila.,
 Pa.

Mansfield Tempered Copper Co., Mansfield, O.
 Mayo Damper Co., Pottstown, Pa. (Also Brass
 & Bronze)

Merriam, F. M. Carton av, Utica, N. Y.
 Messmer, Ferd. Mfg. Co., St. Louis, Mo.
 Michaels, Lewis, 216 W Pearl, Cincinnati, O.
 Midland Brass Works, Fort Worth, Tex.
 Milwaukee Aluminum Mfg. Co., 163 Barclay,
 Milwaukee, Wis.

Minneapolis Brass & Iron Mfg. Co., 116 1st av,
 N, Minneapolis, Minn.
 Moore, E. J. Machine & Foundry Co. (Gray-
 White Semi-Steel Alloy), 2227 Wood, Phila.,
 Pa.

Mousley, Chas. & Sons, 457 N 12th, Philadelphia,
 Pa.
 Newell, Fred E., Central Falls, R. I.
 National Brass & Metal Co., Minneapolis, Minn.
 National Novelty Corporation (Small, 826
 B'way, New York

New Jersey Aluminum Co., Newark, N. J.
 Nonpareil Brass Co., Providence, R. I.
 Norwalk Brass Co., Norwalk, Conn.
 Oberdorfer, M. L. Brass Co., Syracuse, N. Y.
 Ohio Brass Co., Mansfield, O.
 Ohnstrand Metal Furniture Co., Jamestown N.
 Y., & 5 & 7 E 42d, New York
 Phelps, E. E. Co., Syracuse, N. Y.

Philadelphia Hardware & Malleable Iron
 Works (Inc.), 9th & Jefferson, Phila., Pa.
 Powow Foundry, 22 Carriage av, Amesbury,
 Mass.

Pioneer Brass Works, Indianapolis, Ind.
 Pittsburg Brass Mfg. Co., 3153 Penn av, Pitts-
 burg, Pa.

Providence Aluminum Co. (1 grain to 1000
 pounds, also Aluminum Bronze), Providence,
 R. I.

Reeves, Paul S. & Son, 1413 Catharine, Phila.,
 Pa.

Rempis & Gallmeyer Foundry Co., Grand Rapids,
 Mich.

Richardson, Edro, 316 N Holliday, Baltimore,
 Md.

Roberts & Norton, Utica, N. Y.
 Rowell, W. G. & Co., Bridgeport, Conn.

Ruggles Machine Co., Poultney Vt.
 Ryan, J. J. & Co., 105 S Jefferson, Chicago, Ill.

St. Paul Foundry Co., St. Paul, Minn.
 Scovill Mfg. Co., Waterbury, Conn.

Sheeler-Hemsker Co., 811 Fairmount av, Phila.,
 Pa.

Sherwood Mfg. Co., Buffalo, N. Y.
 Shriver, T. & Co., 333 E 56th, N. Y.

Springfield Brass Co., Springfield, O.
 Stover Mfg. Freeport, Ill.

Syracuse Aluminum & Bronze Co., Syracuse,
 N. Y.

Toledo Bronze Co., Toledo, O.
 Tumney Copper & Bronze Co., 988 E 67th, N.
 E., Cleveland, O.

Turner Brass Works, 66 Michigan, Chicago, Ill.
 Union Brass Foundry Co., Lowell, Mass.

U. S. Aluminum Casting Co., Cincinnati O.
 U. S. Aluminum Co., Pittsburg, Pa.

Utica Electric Light & Power Co., Utica, N. Y.
 Waltham Foundry Co., Waltham, Mass.

Ward, Williams & Cruse Co., Hancock, Mich.
 Waterbury Brass Foundry, Waterbury, Conn.

Wells Chemical Bronze Works, Worcester, Mass.
 Wilson Aluminium Co., Gauley Bridge, W. Va.

Williams, E. A. & Son, 105 Plymouth, Jersey
 City, N. J.

Worcester Steel Foundry Co., Worcester, Mass.
 Zero Valve & Brass Mfg. Co., 417 Chicago,
 Buffalo, N. Y.

Castings (Atlas Steel)

Phila. Steel & Iron Co., Frankford, Phila., Pa.

Castings (Automobile)

(See also Castings, Various Kinds)

**AMERICAN BRAKE SHOE & FOUN-
 dry Co., 170 B'way, New York. Works &
 Sales Office: Chicago Heights, Ill. (See adv.
 index & branch offices, end of book)**

Bridgeport Deoxidized Bronze & Metal Co.,
 Bridgeport, Conn.

CHISHOLM & MOORE MFG. CO.,
 (Malleable Iron), Lake & Kirtland, Cleve-
 land, O. (See adv. index, end of book)

Cramp, Wm. & Sons Ship & Engine Building
 Co., Phila., Pa.

Ensign Foundry Co., Toledo, O.

Edna Smelting & Refining Co., (Brass), 525
 Reading rd, Cincinnati, O., & Monadnock
 blk, Chicago, Ill.

**HARDY, WM. A. & SONS CO. (Brass
 & Bronze), Fitchburg, Mass. (See adv. in-
 dex, end of book)**

Hopson & Chapin Mfg. Co. (Cast Iron), New
 London, Conn.

Manufacturers' Foundry Co. (Grey Iron Cylin-
 ders; also for Motor Boats), Waterbury,
 Conn.

Norwalk Brass Co. (of all Composition Metals),
 Norwalk, Conn.

REEDY FOUNDRY CO., 91 Illinois,
 Chicago, Ill.

Rogers, C. E. (Aluminum), 34 Beach, Boston,
 Mass.

Susquehanna Casting Co., Wrightsville, Pa.

Syracuse Aluminium & Bronze Co., Syracuse,
 N. Y.

Trumbull Mfg. Co., Warren, O.

U. S. Aluminium Co., 131 State, Boston, Mass.

U. S. Aluminum Castings Co. (Aluminum),
 Cincinnati, O.

Whiteley Steel Co. (Cast Steel), Muncie, Ind.

Castings (Bake Oven)

Fischer, Henry C., 234 Greene, Brooklyn, N. Y.
 Spangler, Chas., Allentown, Pa.

Castings (Blast Furnace)

Allentown Foundry & Machine Works, Allen-
 town, Pa.

**AMERICAN BRAKE SHOE & FOUN-
 dry Co., 170 B'way, New York. Works &
 Sales Office: Chicago Heights, Ill. (See adv.
 index & branch offices, end of book)**

Bowler Foundry Co., Cleveland, O.
 Massillon Iron & Steel Co., Massillon, O.
RUSSEL WHEEL & FOUNDRY CO.,
 Detroit, Mich. (See adv. index, end of book)

Castings (Boiler)

(See Boiler Fronts & Castings)

Castings (Brass)

(For all Brass Founders not found under this
 heading see Machinists & Founders marked
 with a (\$) Section Mark.)

See also Castings, Bronze;
 Castings, Climax Bronze;
 Castings, Copper;
 Castings, Manganese Bronze;
 Castings, Parsons Bronze;
 Castings, Phosphor Bronze;
 Bearings of Various Kinds;
 Bell Founders;
 Plumbers' Brass Goods;
 Valve Mfrs.

ALABAMA.

BIRMINGHAM—Ajax Metal Co.

Anderson, G. L. Brass Works
 Gilb, V. & Son

CULLMAN—Ehrensperger, H.

MOBILE—Alabama Iron Works (also Iron)

MONTGOMERY—Janney & Co. (also Iron)

ARKANSAS.

LITTLE ROCK—Thomas-Fordyce Mfg. Co.
 Wing & Stephens Co.

CALIFORNIA.

LOS ANGELES—Axelson Machine Co.

Bailey Ornamental Iron Co. (Iron & Brass)
 Columbia Brass Works

Fulton Engine Works

Hutchison, W. G. Co.

Jones, Jas. & Co.

Llewellyn Iron Works

Los Angeles Gas & Elec. Fixture Mfg. Co.

McCan Mechanical Works

Star Brass Works

RIVERSIDE—Riverside Foundry & Machine Co.

SACRAMENTO—Sacramento Foundry & Ma-
 chine Works

SAN FRANCISCO—Bartels, C. W., 109 Fremont

Braud, P. & Co., 522 Fulton

Chapman-Baker Machine Works, 33 Clemen-
 tina

Garratt, W. T. & Co. (Inc.), 140 Fremont

Globe Brass & Bell Foundry, 128 Main

Greenberg's, M. Sons, 225 Beale

Kingwell, Vincent, 1038 Mission

Pacific Plating & Metal Works, 568 Mission

Roylance, J. Brass Wks., 112 Main

San Francisco Zinc & Brass Foundry Co., 48
 Clementina

Standard Brass Casting Co., 39 Clementina

Tay, Geo. H. Co., 49 1st

Union Iron Works, Potrero

Western Brass Works, 20 Natoma

Western Tube Co. (Valves, Cocks & Fit-
 tings), Mills bldg

COLORADO.

COLORADO SPRINGS—Hassell Iron Works Co.

DENVER—Denver Brass Works Co., 1307 Law-
 rence

Denver Iron & Wire Works, 1401 Market

Flint-Lomax Electric & Mfg. Co., 1400 Del-

McNamara, J. C., 1431 Blake gany

Slack, B. F., Brass Mfg. Co., 1638 Blake

Somerville, Geo., 1749 Blake

Star Metal Co., 1535 Wynkoop

Western Brass Foundry & Plating Works,

PUEBLO—Ortnor, Geo. J., 1440 Blake

Pueblo Foundry & Machine Co.

CONNECTICUT.

ANSONIA—Ansonia Brass Foundry Co.

Ansonia Brass & Copper Co.

Gaylord, F. L. Co.

Phelps, H. D.

BRIDGEPORT—Belknap Mfg. Co.

Bridgeport Brass Co.

Bridgeport Deoxidized Bronze & Metal Co.

Coulter & McKenzie Machine Co.

Donovan, P. J., 249 R. R. av.

Eaton, Cole & Burnham Co.

Hamilton, Jno., 152 Middle

Pacific Iron Works

Rowell, W. G. Co.
DERBY—Meyers Iron & Brass Foundry (Also Iron)
GUILFORD—Spencer's, I. S. Sons
HARTFORD—Blake, Edwin J.
 Craig, Jno. M.
 Howard, Jas. L. & Co.
 Pratt & Cady Co.
 Ruby, M. J.
MERIDEN—Meriden Brass & Iron Works
 Miller, Edw. & Co.
MIDDLETOWN—Chapman, W. H. Co.
 McAllister, Frank
 Wilcox, Crittenden & Co.
MILLVILLE—Russell, J. M. Mfg. Co.
MOUNT CARMEL—Woodruff, Walter W. &
MILLVILLE—Russell, J. M. Mfg. Co.
NEW BRITAIN—Flannery, P. J. Sons Co.
 Kinne, W. A.
 Osborn, H. A.
 Roche, W. J.
NEW HAVEN—Ely, C. U.
 Graham, Jas. & Co.
 Hendryx, Andrew B. Co.
 Ives, Hobart B. Co.
 Magnus Metal Co., 248 Cedar
 Peck Bros. & Co.
 Reynolds Brass Foundry Co.,
 Sargent & Co.
 Stiles, A. C. Anti-Friction Metal Co.
NEW LONDON—Brennan, James, 55 Denison
 Morgan Iron Works, Ft Neck av
NORWALK—Norwalk Brass Co.
 Wheeler Bros.
NORWICH—Pequot Brass Foundry Co.
 Tracy, C. Oscar
PLAINVILLE—Clark, A. N. & Son (to order)
 Carter, E. T.
 Carter, L. H.
 Elm City Brass & Rivet Co.
SHELTON—Platt, Delos
SOUTH NORWALK—United States Foundry &
 Sales Co.
STANFORD—Brown, Chris
STONINGTON—Miller, A. B. & Son (Also Iron)
TORRINGTON—Turner & Seymour Mfg. Co.
WATERBURY—American Pin Co.
 Manufacturers Foundry Co.
 Matthews & Willard Mfg. Co.
 Scovill Mfg. Co.
 Steele & Johnson Mfg. Co.
 Waterbury Brass Co.
 Waterbury Brass Foundry.
 Waterbury Mfg. Co.
WINSTED—MOORE, FRANKLIN CO.
 (See adv. index, end of book)

DELAWARE.

WILMINGTON—Remington Machine Co.,
 Speakman Supply & Pipe Co.
 Wilmington Brass Co.

DISTRICT OF COLUMBIA.

WASHINGTON—Douglass, Wm. H., 927 C, SW
 Ennis, Geo. T., 329 C, N. W.
 Somerville, Thos. & Sons, 316 13th, N W

FLORIDA.

JACKSONVILLE—McMillan Bros.

GEORGIA.

ATLANTA—Withers, W. S. (also Iron)
SAVANNAH—Kehoe's Iron Works (also Iron)
 O'Mara, M., West Savannah
 Rourke's Iron Works

ILLINOIS.

AURORA—Aurora Metal Co.
CHICAGO—ABENDROTH & ROOT MFG.
 Co., 410 Monadnock blk. (See adv. index,
 end of book)
 Acme Metal Mfg. Co., 47 S Canal
 Acorn Brass Mfg. Co., 51 N. Peoria (Also
 Aluminum & Iron)
 Adams & Westlake Co., c Ontario & Franklin
 Allen, W. D. Mfg. Co., 151 Lake
 American Bronze Foundry Co., 73d & Wood-
 lawn av
 Anderson, A. H. (Light & Heavy), 52 N
 Anderson Bros., 28 W Washington Ann
 Anderson, J. A. & Co., 28 S Clinton
 Bastian, C. L. Mfg. Co., 76 Illinois
 Burdette-Rowntree Co., 85 W Jackson boul
 Chicago Brass Works, 162 S Clinton
 Chicago Hardware Fdy. Co., 45 W Wash'n
 Chicago Nut Co., 170 S Clinton
 Columbian Hardware Co. (of Cleveland, O.),
 Cork Bros., 22 W 19th 26 Lake

DOBBIE FOUNDRY & MACHINE

Co., 202 S Water. (See adv. index, end of
 book)
Eddy Brass Foundry & Machine Co., 72 W
 Washington
Edna Smelting & Refining Co. (Light &
 Heavy), Monadnock blk.
Empire Brass Works, 127 Fulton
Faunt Bros., 13 N Jefferson
Federal Co., 227 Washington
Fisher, A. J. Plumbing Co., 1606 Lincoln av
Goetz & Flodin Mfg. Co., 133 W Chicago av
Harris, Arthur & Co. (Heavy), 44 N. Curtis
Hewitt Mfg. Co., 9 Jackson boul st.
Hills, Robert E., 128 E Kimzle
Hodgson, John & Co., 1071 W 13th
Holland, Wm., 122 S Jefferson
Illinois Brass Foundry Co., 99 Bunker
Illinois Malleable Iron Co., 30 W Monroe
Imperial Brass Mfg. Co., 245 S Jefferson
Mahoney, Pat'k F., 39 W Wash.
Purcell, N. F. & Co., 232 S Clinton
Ryan, J. J. & Co., 105 S Jefferson
Scovill Mfg. Co., 210 Lake
Smeeth Co., 1120 W 22d
SMITH, F. P. WIRE & IRON
 Works, 100 Lake, Chicago. (See adv in-
 dex, end of book)
Smith & Babbitt Brass Foundry Co., 63 W
 Washington
Sterion Copper, Brass & Bronze Co., 65 N
 Ashland av
Stier, Herman Mfg. Co., 552 N Halsted
Street & Kent Mfg. Co. (Plumbers' Special-
 ties), 43 Fulton
Thomas Bros. Mfg. Co., Fillmore av c
 Rockwell
Turner Brass Works, 65 Michigan
Weir & Craig Mfg. Co., 2439 Wallace
Western Brass Mfg. Works, 21st & Rockwell
CHICAGO RIDGE—White Mfg. Co.
EDWARDSVILLE—Edwardsville Brass Co.
FREEPORT—Stover Mfg. Co.
GALESBURG—Frost Mfg. Co.
JACKSONVILLE—Jacksonville Iron & Brass
 Foundry
KEWANEE—Western Tube Co., (Valves,
 Cocks & Fittings)
LITCHFIELD—Litchfield Foundry & Machine
 Co.
MOLINE—Schmidt, Henry
PEORIA—Brass Foundry & Heating Co.
 Kinsey & Mahler Co., 400 S Adams
QUINCY—Bush, Clement (Also Iron)
 Central Iron Works
 Massie, S. B. & Son
 Quincy Foundry & Novelty Co.
 Van Doorn Co.
ROCKFORD—Dobson Mfg. Co.
 Rockford Brass Works

INDIANA.

ELKHART—Buescher Band Instrument Co.
EVANSVILLE—Evansville Brass Works.
 Healey, Peter
 Heilman Machine Works
 Nehring, Wm. H. & Co.
FORT WAYNE—Ft. Wayne Foundry & Ma-
 chine Co.
FRANKFORT—Frankfort Brass Works
INDIANAPOLIS—Dean Bros. Steam Pump Works
 Laugsenkamp Bros. & Wheeler
 Pioneer Brass Works
KNIGHTSTOWN—Indiana Brass Foundry &
 Smelting Works
KOKOMO—Kokomo Brass Works
TERRE HAUTE—Prox & Burget Co.
 Terre Haute Bronze & Brass Co.

IOWA.

BURLINGTON—Iowa Novelty Co.
CEDAR RAPIDS—Dearborn Brass Co.
DAVENPORT—Davenport Foundry & Machine
 Co.
DES MOINES—Des Moines Mfg. & Supply Co.
 Hawkeye Machine & Brass Foundry
DUBUQUE—McDonald, A. Y. & Morrison Mfg.
 Co.
KEOKUK—Keokuk Brass Foundry
 Ribyn, Mathias
MARSHALLTOWN—Marshalltown Aluminum &
 Brass Foundry Co.
SIOUX CITY—Sioux City Iron & Brass Foundry
WATERLOO—Waterloo Brass Foundry

KANSAS.

IOLA—United Iron Works Foundry & Machine
 Co.
KANSAS CITY—Riverside Iron Works Co.
TOPEKA—Gerdon, E. J. & Sons
WICHITA—Walterscheid Bros.

KENTUCKY.

LOUISVILLE—Ahrens & Ott Mfg. Co., 325 W
 Main
 American Brass Foundry, 943 W Main
 Haight & Co., 544 5th
 Howe Mfg. Co., 1107 W Main
 Jones, Arthur, 211 1st
 Stege, E. A. Mfg. Co., 258 W Jefferson
 Vogt, Henry Machine Co., 10th & Ormsby

LOUISIANA.

JENNINGS—Dobbins Iron Works (Ltd.)
MONROE—Sanders, Jno. G. (Also Iron)
NEW ORLEANS—Hauptman & Loeb Co. (Ltd.),
 222 S Peters
 Koretke, F. H., Brass & Mfg. Co., Ltd.,
 922 Magazine
 Moore's Brass Foundry, 835 Tchoupitoulas
 Murphy, John H., 625 Magazine
 Swoop, Julian M., 913 Girod
 Western Tube Co. (Valves, Cocks & Fit-
 tings), 211 Camp

MAINE.

BANGOR—Union Iron Works
BATH—Bath Iron Works
 Torrey Roller Bushing Works
 Watson, Frye & Co. (Railroad & Mill)
CAMDEN—Knowlton Bros.
DEXTER—Fay & Scott (Also Iron)
HALLOWELL—Fuller's, Geo. Sons (Also Iron)
LEWISTON—Maxwell, O. P., Foundry Co.
MECHANIC FALLS—Penney, J. W. & Sons Co
PORTLAND—Babbitt, Chas. E. (Also Iron)
 Knight Bros., 304 Fore
 Portland Co.
ROCKLAND—Torrey, J. G. & Son

MARYLAND.

BALTIMORE—Baltimore Brass & Plating
 Works, North & Center
 Birmingham, C. H. & Co., 231 S Exeter
 Boehm, Henry E. & Co., 207 North
CODD, E. J. CO., 700 S Caroline
 (See adv. index, end of book)
 Curtis Bay Brass & Metal Works, S. Balto.,
 A. A. Co.
 Farrell, Edw. P., 1412 Phillpot
 Gibson & Kirk, 517 E Montgomery
 Gisriel, Wm. & Son, 1527 Guilford av
 Kavauagh-Ward Bros. Co., 7th & Gough
 Liberty Brass Works, 305 W Lombard
 Mackim, F. M. & Co., 509 N Spring
NATIONAL SUPPLY CO., 7 W
 Lombard. (See adv. index, end of book)
 Register's, J. Sons Co., Holliday c Saratoga
 Richardson, Edro, 316 N Holliday

MASSACHUSETTS.

AMESBURY—Amesbury Brass & Foundry Co.
BOSTON—American Tool & Machine Co. (also
 Iron), 109 Beach
 Ashton Valve Co., 271 Franklin
 Bay State Brass Foundry, 155 A
 Boston Brass Co., 36 Oliver
 Clark, D. W. & Co., 280 W 1st. (S. B.)
 D'Este, Julian Co., 24 Canal
 Duncan, Wm., 412 Border
 Gibby Foundry, 96 Condor
 Granular Metal Co., 77 Farnham
 Grundy, J. E., & Co., 90 Sudbury
 Hall, Wm. & Co., 82 Sudbury
 McCafferty, J. H. & Co., 434 Harrison av
 McCaul Brass Foundry Co., 289 South
 McGann, Thos. F., & Sons Co. (Art, etc.),
 104 Portland
 Mowry & Phillips (Rough or Finished, 208
 Camden.
 Rogers, Cornelius E., 34 Beach
 Scovill Mfg. Co., 170 Summer
 Star Brass Mfg. Co., 108 E Dedham
 Star Refining Co., 112 W 1st
 Union Brass Works, 7 Sherman, Chsn.
 Walworth Co., 128 Federal
CAMBRIDGE—Hayden, G. W.
CLINTON—Clinton Foundry Co. (Also Iron)
EAST BRIDGEWATER—Old Colony Foundry
 Co.
FALL RIVER—Creighton, T. J. & Co., 110
 Chace
 Fall River Foundry & Machine Co., 88 Ply-
 mouth av.
 Mechanics Foundry & Machine Co.
FITCHBURG—HARDY, WM. A. & SONS
 Co. (See adv. index, end of book)
FOXBORO—Foxboro Foundry Co.
GARDNER—Lockwood, A. L.
GLOUCESTER—Reed, Geo. A. & Son

HAYDENVILLE—Haydenville Co.
HOLYOKE—Higgins & Co.
LAWRENCE—Gallison Brass Foundry
LOWELL—Eagle Foundry Co.
 Pevey Bros.
 Union Brass Foundry
LYNN—Dempsey, Jno. F. & Co.
MILLBURY—Worcester Steel Foundry Co.
NEW BEDFORD—Gardner, R. M. & Co.
ORANGE—Hunt, Rodney Machine Co.
SALEM—Salem Brass Foundry.
SPRINGFIELD—Chamberlain, J. H. D. Co.
 Chapman, J. B. & Co.
 Emory, P. P. Mfg. Co.
 Hampden Brass Co.
 Springfield Foundry Co.
TAUNTON—Trefethen, D. A., 4 Porter
 WALTHAM—Waltham Foundry Co.
WEBSTER—PRESCOTT, J. B. & SON
 (Also Iron). (See adv. index, end of book)
WEST EVERETT—Smith, Jas.
WORCESTER—Cahill Mfg. Co., 18 Lyon
 Kindred & Taylor, 29 Jackson
 Washburn Shops
 Wells Chemical Bronze Works
 Worcester Brass Co., 262 Shrewsbury

MICHIGAN.

BATTLE CREEK—Sherman, H. B. Mfg. Co.
BAY CITY—McCartney, Josiah
CHEBOYGAN—Blake, H. A. (Also Iron)
DETROIT—Allyne Brass Foundry Co., 577
 Bellevue av
 Capital Brass Works, 284 Rivard
 Detroit Brass Works, 1300 Brooklyn av
 Detroit Copper & Brass Rolling Mills, Mc-
 Kinstry av & Wabash R. R.
Eagle Brass Works, 218 Elizabeth, E.
 Essex, G. B. Brass Co., 480 Franklin
 Galvin Bros., 131 Brush
 Graebert & Purdie, 12 Sherman
 Globe Brass Works, 13 Macomb
 Hardoin, Nicholas, 132 Larned, E.
 Hackett Bros., 146 Sherman
 Hofeller-Brooks Aluminum & Brass Foundry
 Co., 74 Fort, E.
 Ireland & Matthews Mfg. Co., Mt. Elliott
 Johnston, F. G., 56 2nd c Wight
 McRae & Roberts Co. (Steam Brass Goods),
 227 Campbell av
 Moore, J. K. & Son, 304 Gratiot av
 National-Fulton Brass Mfg. Co. (Car, Lo-
 comotive, etc.)
 Standard Brass Works, 528 E Woodbridge
 Stephens, Roe Mfg. Co., McKinley av &
 G. T. R. R.
 Sterling & Skinner Mfg. Co., Russell c
 North Grand boul, E.
 Walz, Chris., 278 Division
 Wolverine Brass Foundry Co., 14 Macomb
 Yoe, Hy. & Co., 146 Sherman
FLINT—Flint Auto Brass & Aluminum Co.
GRAND RAPIDS—Grand Rapids Brass Co.
 Harring-Attwood Brass Mfg. Co. (Heavy)
 Hartmann, F. & Co.
 Keeler Brass Co.
 Remps & Gallmeyer Foundry Co.
 Wolverine Brass Works
HANCOCK—Portage Lake Foundry & Machinery
HOLLAND—Huntley, A. Co.
JACKSON—Holton & Weatherwax Co. (Ltd.),
 (Also Iron)
KALAMAZOO—New Era Mfg. Co.
 Star Brass Works
LANSING—Gerson-Carey Co. (Also Bronze &
 Aluminum)
LAPEER—McDonald, Wm. Sons (Also Iron)
MUSKEGON—Enterprise Brass Works (Frank
 Holt, Prop'r)
PORT HURON—Draper Mfg. Co.
 Excelsior Iron & Brass Foundry
 Lee Mfg. Co.
SAGINAW—Bartlett, A. F. & Co.
TRAVERSE CITY—Round & Son (Also Iron)
YPSILANTI—Michigan Machinery Mfg. Co.

MINNESOTA.

DULUTH—Duluth Brass Works
 Marine Iron Co.
MINNEAPOLIS—Baum's Brass & Model Works
 Flour City Ornamental Iron Works, 27th av
 & 27th, S.
 Minneapolis Brass & Iron Mfg. Co.
 Minneapolis Bronze & Brass Foundry, 249
 6th av, S
Twentieth Century Brass & Iron Works
ST. PAUL—St. Paul Brass Foundry
 South Park Foundry & Machine Co.
 Union Brass & Metal Mfg. Co.

MISSISSIPPI.

LAUREL—Laurel Machine & Foundry Co.
NATCHEZ—Shaw, C. P.

MISSOURI.

INDEPENDENCE—Independence Foundry Co.
JOPLIN—Joplin Foundry Co.
KANSAS CITY—Central Brass Works Co.,
 Goodrich pl & Central
 Cramptou-Farley Brass Co. (Plumbers'
 Specialties), 221 Main
 Kansas City Brass Works, 421 W 5th
 Kansas City Wire & Iron Works, 1428 Oak
 Platt Mfg. Co., 21st & Campbell
 Star Brass Works, 604 W 5th
ST. LOUIS—Garratt, J. W. Brass Foundry Co.
 (From ¼-oz to 5,000 lbs.), 2028 Walnut
 Gilbert, A. & Sons, 2024 Eugenia
 Hewitt Mfg. Co., 2028 Walnut
 Kingsland-Kay-Cook Mfg. Co., Mullanphy,
 11th to 12th
 Kupferle Bros. Mfg. Co., 602 N 2d
 Laclede Brass Works, 307 Cedar
 Lupfer, Wendel, 216 Locust
 More-Jones Brass & Metal Co., 3138 N B'way
 Ruppenthal, J. & Son, 1602 N B'way
 St. Louis Brass Mfg. Co., 1112 Market

NEBRASKA.

FREMONT—Fremont Foundry & Machine Co.
LINCOLN—Hedges, C. E.
 Smith, R. L. Machine Works (Also Iron)
OMAHA—Omaha Foundry Co.
YORK—York Foundry & Engine Works

NEW HAMPSHIRE.

CONCORD—Ford & Kimball
EAST CONCORD—Beaupre, F. D. & Co.
EXETER—Exeter Brass Works (Plumbers'
 Specialties, etc.)
LACONIA—Glidden, A. S. & Co.
LAKEPORT—Cole Mfg. Co.
PENACOOK—Concord Axle Co.
UNION—Union Brass Works

NEW JERSEY.

BELLEVILLE—Eastwood Wire Mfg. Co. (¼-oz
 to 20,000 lbs.)
BLOOMFIELD—Benson, H. K. & F. S.
 Empire Foundry Co.
 Jenkins Mfg. Co.
CAMDEN—Voight Metal Co., 5th nr Erie
 Waters, Edgar H. Co.
ELIZABETH—Elizabeth Brass Foundry Co.
 Elizabeth Machine & Iron Works
FLEMINGTON—Foran Foundry & Mfg. Co.
HOBOKEN—Fletcher, W. & A. Co.
 Moller, Henry (all kinds of Castings), 702
 Union Iron Works Madison
JERSEY CITY—Atlantic Brass Co., Communi-
 paw av c Philip

Brady Brass Co., 204 10th
 Garney & Greunhaigh, 13 Sussex
 Garvey Bros., ft of Sussex
 Gothberg, H. & E., 139 Cator av
 Krouse, Geo. (Heavy), 150 Morgan
 Magnus Metal Co., 364 9th
 Murphy, Wm. J., 279 10th
 Williams, E. A. & Son, 105 Plymouth
LYNDHURST—Leslie Co., Inc.
NEWARK—Barnett, Oscar Foundry Co., 105
 Breuninger, G. & Co., 56 Elm Hamilton
 Bushauer, P. (Est. of), 308 Lafayette
 Chambers & Ainslee, 2 Commercial
 Hewitt, John Foundry Co., E. Newark
 Josts, E. Sons, 350 Plane
 Josts, E. Sons, 350 Plane
 Newark Brass Works, 17 Mulberry
 Riverside Foundry, 451 Riverside av
 Schueler, Anthony & Co., 44 19th av
 Shaw, W. & J. H., 60 Elm
 Zusi, Edw'd, 80 Mechanic
 Zusi, Edw'd A., 101 Monroe
PATERSON—Finigan-Zabriskie Co. (Todd Mills;
 Brass & Iron Castings)
 Wheaton, A. W. Brass Works, 68 N J R R
 av
PERTH AMBOY—Schantz & Eckert (Also Iron)
SALEM—Muckenhirn, Chas. H.
TRENTON—Superior Iron & Brass Foundry
 Trenton Brass & Machine Co.
 Watson, John & Sons

NEW YORK.

ALBANY—Albany Brass & Iron Co., 174 B'way
 Angus, C. H., 317 N Pearl

Clark, Jno. W.
 Cox Brass Mfg. Co.
 Gaynor, P. F., 18 William
BUFFALO—Acme Steel & Malleable Iron
 Works, 245 Military rd
 Bingham & Taylor, 218 Ellicott sq
 Case, W. A. & Son Mfg. Co., 31 Main
 Deck Bros., 20 Indiana
 Ernst, Chas. F. Sons Iron Works, 65 Lath-
 Fries & Co., 89 Main rop
 Hickey, Mich. J., 123 Auburn av
 Hofeller Brass Foundry Co., 145 Virginia
 Josef, E. E. Mfg. Co., Washn & Perry
 Kast Copper & Sheet Iron Works, 89 Main
 Keystone Brass Foundry, 50 Mississippi
 Liberty Brass Foundry, 1310 Niagara
LUMEN BEARING CO. (See adv. index,
 end of book)

Magnus Metal Co., Fidelity Trust bldg.
 Maute, J. & Sons, 23 Kane
 McCutcheon, C. H., 18 Ohio
 Niagara Falls Brass Works, 146 Virginia
 Noye Mfg. Co., 50 Lakeview av
 O'Brien's Foundry, 33 Indiana
 Pohlmann, John W., E Delavan av & Erie
 R. R.

Schmahl, Jno. H. & Albee, 471 Ellicott
 Sherwood Mfg. Co.
 Standard Foundry Co., 50 Lakeview av
 Unique Metal Co., 18 Elk
 Zero Valve & Brass Mfg. Co., 417 Chicago
COHOES—COHOES IRON FOUNDRY &
 Machiue Co. (See adv. index, end of book)

DEPEW—Magnus Metal Co.
GLENS FALLS—Dix Foundry & Machine Co.
 (Also Iron)

GRASSY POINT—Wiles, A. M. & W. H. Co.
 (Also Iron)

JAMESTOWN—Ohnstrand Metal Furniture Co.
LOCKPORT—Holly Mfg. Co. (Also Iron.)
 Kugler Brass Works

McKim Foundry & Machine Co.
MT. VERNON—HENRY-BONNARD
 Bronze Co. (See adv. index, end of book)

NEWBURGH—ABENDROTH & ROOT
 Mfg. Co. (See adv. index, end of book)

Chadburn & Caldwell Mfg. Co.
 Coldwell-Wilcox Co.

Kimball's, S. G. Son
 Marvel, T. S. Shipbuilding Co.

Monell, Geo. L.
 Newburgh Ice Machine & Engine Co.

NEW YORK CITY. Borough of Brooklyn.

BROOKLYN—Atlantic Basin Iron Works, Im-
 lay & Summit

Bell, Wm. & Son, 749 Hicks
BLISS, E. W. CO., 19 Adams. (See
 adv. index, end of book)

Columbia Machine Works & Malleable Iron
 Foundry Co., 269 Chestnut

Connolly Supply Co., 1071 Atlantic av
 Coyne & Delaney, 303 Rodney

Creamer, W. G. & Co., Creamer c Smith
 Franklin Brass Foundry, 116 West

Hamilton, Robert, 85 Adams
 Holdsworth, Wm. H. & Son, 452 Rodney

Huethwohl, Louis, 513 Flushing av
 Jefferson Brass Foundry, 209 King

Jones, Henry & Son, 467 Malbone
 Leiser, Leopold, 431 B'way

Lieb Brass Foundry, 84 Carlton av
 Patrick, Robt. A., 112 Front

Paulson, Thos., 13 Fulton
 Phail-Krueger Foundry & Machine Co., 68

Renton, Geo. W., 431 B'way West
 Staats, Geo. & Co., 252 Lorimer

Staats & Dillmeier Mfg. Co., 36 S 1st
 Taylor & Co. (also Iron), 415 Driggs av

Boroughs of Manhattan & Bronx

NEW YORK—ABENDROTH & ROOT
 Mfg. Co., 99 John. (See adv. index, end
 of book)

Atlantic Brass Co. (Car, etc.), 192 B'way
 Bristol Brass Co., 46 W B'way

Claudat, Frank & Son, 424 E 23d
 Cornell, J. B. & J. M., 26th & 11th av

DOBBIE FOUNDRY & MACHINE
 Co., 82 Warren (See adv. index, end of
 book)

Eaton, Cole & Burnham Co. (Founders &
 Finishers), 253 B'way. Works, Bridge-
 port, Conn.

Federal Brass & Bronze Co., 1133 B'way
 Fox's, B. Sons, 513 W 34th

Gallagher's, Jas. Sons, 87 Centre
HENRY-BONNARD BRONZE CO.,
 5 E 42d. (See adv. index, end of book)

Levett, Walker M., 462 10th av
LUNKENHEIMER CO., 66-68 Ful-
 ton. (See adv. index, end of book)
 Magnus Metal Co., 170 B'way
 Manhattan Brass Co., 334 E 28th
 Miller, Edw. & Co., 30 W B'way
 National Novelty Corporation (Small), 823
 Nelson, Chas., 439 E 10th B'way
 N. Y. Brass Foundry Co., 104 Centre
 Ohnstrand Metal Furniture Co., 5 & 7 E. 42d
 Scholl, Adam, 451 E 138th
 Scovill Mfg. Co., 75 Spring
 Shriver, T., & Co., 333 E 56th
 Tiebont, W. & J., 118 Chambers

UNION BRASS AND BRONZE CO.

520 W 36. (See adv. outside stencil)
 White, Sam'l, 529 W 33rd
 White Mfg. Co., 556 W 34th

Borough of Queens.

MASPETH—Queensborough Brass & Bronze
 Foundry, Long Island City
 Richey, Browne & Donald

(END OF NEW YORK CITY)

NIAGARA FALLS—**DOBBIE FDRY. &**
 Machine Co. (See adv. index, end of book)

NORTH TONAWANDA—Armitage-Herschell Co.

OSWEGO—Oswego Bronze & Foundry Co.

ROCHESTER—Clum & Atkinson

Enterprise Foundry Co., 48 Olean

Nunn Brass Works, 17 Wentworth

Wray, Henry & Son, 195 Mll

ROME—Rome Brass & Copper Co.

SANDY HILL—Sandy Hill Iron & Brass Works

(Also Iron.)

SENECA FALLS—Climax Specialty Co. (Plumb-

ers' Specialties)

Seneca Falls Mfg. Co.

SYRACUSE—Central City Brass & Mfg. Co.,

120 Burnet av.

McVey & Kratz, 116 Richmond av.

Oberdorfer, M. L. Brass Co., 804 E Water

Phelps, E. E., 1610 N Salina

Senk, Jno. & Bro., 1515 Lodi

Syracuse Faucet & Valve Co.

TROY—Gurley, W. & L. E.

Kemp, Wm. & Son.

West Side Foundry Co., Watervliet

UTICA—Blasier, M. E. Co.

Freeman, King H.

Merrill, F. M., 3 Carton av.

Utica Brass Works, 32 Seneca

NORTH CAROLINA.

NEWBERN—Newbern Iron Works

RALEIGH—Raleigh Iron Works Co.

WILMINGTON—Wilmington Iron Works

OHIO.

AKRON—Adamson, Alex.

Akron Foundry Co.

BELLEFONTAINE—Bellefontaine Foundry &

CANTON—Balm, J. A. Machine Co.

Best Light Co.

City Brass Foundry

Elbel Co.

Frankman, Wm.

CINCINNATI—American Brass Works, 426 Plum

American Copper & Brass Wks, 614 E Front

American Valve & Meter Co., 1119 Gest

Bourbon Copper & Brass Works, 618 E Front

Central Brass Works, 322 W Pearl

CINCINNATI MFG. CO., 1243 W

6th. (See adv. index, end of book)

Crane & Breed Mfg. Co., 1227 W 8th

Deckebach, F. C. Sons Co., 123 W Court

Edna Smelting & Refining Co. (Light &

Heavy), 525 Reading rd

Electric Railway Equipment Co., 1938 W 8th

Enterprise Brass & Plating Co., Clark &

Eureka Brass Works, 217 W 2d Harriet

Fewlass-Leen Brass & Iron Co., 456 E 2d

Globe Brass Works, 62 Elm

Hauck Mfg. Co. (Art Castings, etc.), 322 W

Pearl

Hesterberg, R. & Co., Spring Grove & Gar-

Hoppe, Chas. & Co., 632 Main rard avs

Kinsley, J. R., 115 E 6th

Kirkup, Robt. & Co., 616 Lodge

Klsinger-Ison Co., 466 Pioneer

Klotter, Geo. F. Co., 1722 Central av.

LUNKENHEIMER CO., Beckman &

Waverly. (See adv. index, end of book)

McGowan, Jro. H. Co., 54 Central av

Messmer, Andrew Co., Patterson n Bank

Michaels, Lewis, 216 W Pearl

National Brass Mfg. Co., 1115 Marshall av
 Newman-Kuhn Mfg. Co., 1250 W 8th
 Nichol, Thos. J. & Co., c Pearl & Ludlow
 Ohio Brass Foundry, 207 Ludlow
 Powell, Wm. Co., 2525 Spring Grove av
 Queen City Brass & Iron Works, Spring
 Grove & Garrard avs

Richter & Co., 210 E 9th
 Riegler, Alex., 316 Perry
 Schroder, J. B. & Co., 133 E 5th
 Van Duzen, E. W. Co., 428 E 2d
 Varwig Mfg. Co., 120 Opera pl

CLEVELAND—Acme Brass Works, 2662 E 76th.
 S. E.

Aetna Brass Mfg. Co., 4809 Hamilton av

Allyne Brass Foundry Co.

American Bronze & Brass Co., Sweeney nr

Willson av

Brookside Brass Foundry & Mfg. Co., 2135

Selzer av, S. W.

Buckeye Brass Foundry, 1807 Columbus rd,

Buckeye Brazing Co., 1544 W 6th S. W.

Central Brass Mfg. Co., 6203 Cedar av

City Brass Foundry Co.

Cleveland Brass Works, 2102 Abbey

Cleveland Bronze & Brass Works (Light &

Teavy), 4608 Hamilton

Farnan Brass Works (Plumbers' Special-

ties), 1104 Center

Forest City Brass Works, 1607 Merwin

Glauber Brass Mfg. Co., 4917 Superior

Hunger & Scheidegger, 928 Champlain

Ideal Bronze Co., 1265 E 55th, N. E.

Macbeth Iron Co., Winslow & Center

Monarch Brass Co., 4613 Payne av

Ohio Brass & Iron Mfg. Co.

Ohio Foundry Co., Giddings av & C. & P. R.

Pegg, Jas., 161 W 67th R.

Standard Brass Foundry Co., 6524 Central

av, S. E.

United Brass Mfg. Co., 3844 Hamilton

U. S. Bronze Co., 1831 Columbus

COLUMBUS—Buckeye Brass Foundry, Vine &

Columbus Brass Co., 94 N 6th Armstrong

Safety Meter Lock Co.

DAYTON—Buckeye Iron & Brass Works

Dennick, Wm. & Co.

Donovan & Kneisl

Hoban Brass Foundry Co., 44 Wyandot

Miami Brass Foundry

ELYRIA—Slyria Machine Parts Co.

FINDLAY—Findlay Foundry & Machine Co.

GENEVA—Champion Safety Lock Co.

HAMILTON—Hamilton Brass & Copper Works

LIMA—Lima Locomotive & Machine Co.

MANSFIELD—Berry, J. H.

Mansfield Tempered Copper Co.

Oblo Brass Co.

MARIETTA—Pattin Bros. Co. (Also Iron)

NORWALK—Norwalk Iron & Brass Foundry

SANDUSKY—Klotz Machine Co. Co.

SPRINGFIELD—Nolte Brass Co. (For all pur-

poses, rough and finished), 27 W Jeff'n

Springfield Brass Co.

ST. EUBENVILLE—Irwin, J. O. (Also Iron)

Means Foundry & Machine Co.

TOLEDO—Central Brass & Machine Works

Seeger, Valentine

Toledo Brass & Iron Works

Toledo Brass & Novelty Works

Toledo Bronze Co. (Heavy)

Toledo Ship Buildg Co.

Vulcan Iron Works Co., Toledo, O.

YOUNGSTOWN—Falcon Bronze Co.

United Engineering & Foundry Co. (All

Youngstown Bronze Co. Weights)

ZANESVILLE—Union Iron Works

OREGON.

ALBANY—Albany Iron Works (also Iron)

ASTORIA—Astoria Iron works, (Inc.)

DALLAS—Biddle, Edw. (also Iron)

OREGON CITY—Roake, J. A. (also Iron)

PORTLAND—Columbia Engineering Works,

10th & Johnson

Honeyman, J. & Co. (also Iron), 301 Front

Oregon Foundry Co., 471 E Alder

Phoenix Iron Works, Hawthorne c E 3d

Portland Iron Works, 495 Northrup

Willamette Iron & Steel Works, 4th &

Gilsan

PENNSYLVANIA.

ALLEGHENY—Damascus Bronze Co., 923

South av

Pittsburg Lamp, Brass & Glass Co., Locust

& River av

ALLENTOWN—Allen Brass Foundry & Plating

Spangler, Chas. 3d & Walnut Works

Vulcan Brass Works

BEAVER FALLS—Knott, Harker & Co.

BLOOMSBURG—Herman & Hassert

CATASAUQUA—Hercules Metal Works

CHESTER—Crown Smelting Co.

Wetherill, R. & Co.

COATESVILLE—Coatesville Brass Co.

CONNELLSVILLE—Boyts, Porter & Co. (also

Iron)

Connellsville Machine & Car Co. (also Iron)

CONSHOHOCKEN—Bate, Wm. T. & Son

CORRY—Ajax Iron Works (also Iron)

DANVILLE—Curry & Co.

EASTON—Easton Brass & Machine Works

ERIE—Campbell, J. B. Brass Works

Keystone Brass Co.

Noyes Brass Works

GREENSBURG—Kelly & Jones Co.

HANOVER—American Foundry & Machine Co.

(Also Iron)

HARRISBURG—Harrisburg Metal Works

Hickok, W. O. Mfg. Co.

HOMESTEAD—Homestead Valve Mfg. Co.

JOHNSTOWN—Johnstown Foundry, Machine &

Car Co.

LANCASTER—Conestoga Job & Brass Foundry

Hubley Mfg. Co.

Miller, J. Walter

Slaymaker, S. R.

MARIETTA—Marletta Casting Co.

MONONGAHELA—Monongahela Casting Co.

NAZARETH—Nazareth Foundry & Machine Co.

NEW BRIGHTON—Beaver Valley Metal Co.

Brighton Brass & Bronze Co.

NEW CASTLE—American Car & Shlp Hdw.

Mfg. Co.

NORRISTOWN—Rittenhouse, C. & Sons

Wildman Mfg. Co.

NORTH EAST—Eureka Tempered Copper Works

PHILADELPHIA—Ajax Metal Co., 46 Rich-

mond

Belfield, H. & Co., 435 N Broad

Best Mfg. Co., Betz bldg

Bureau Bros., 21st & Allegheny av

Carver & Howell, 122 N Franklin

Caskey, Wm. & Son, E Norris & Beach

Cohocksink Brass Foundry, 439 Berks

Cramp, Wm. & Sons Ship & Engine Build-

ing Co., Beach c Ball

Devlin, Thos. Mfg. Co., 3d & Lehigh av

Evans, S. W. & Son, 4623 Paul Fkd.

Excelsior Brass Works, 1517 Spring

Furlow Sanitary Brass Work Co., 2020 E

Williard

Gaumer, John L. Co., 22d & Wood

Griffiths, Jas. A., 500 N 12th

Halstead & Co. (Founders & Finishers),

1129 Cherry

Hartman Co., 1235 N Front

Hatton, Wm. B. & Co., 460 N Orianna

Hill, B. B. Mfg. Co., 1020 Newmarket

Hoag, R. C. & Co., 1146 Catherine

Homer Brass Works (Inc.), 231 Race

Kane, John, 2329 N 5th

Keystone Brass Foundry Co., 188 Berks.

Keystone Brass Works, 1152 Gtn. av

Kirn, M. L. & Bro., 2135 N Lawrence

Lapp, Geo. W., 718 Cherry

Loneragan, J. E. & Co., 211 Race

McHatton Smelting Co., 1500 Wash. av

Midland Metal Co., 1427 Catherine

Mousley, Chas. & Sons, 457 N. 12th

Northern Smelting Co., 2008 N Leithgow

Ott, Geo. F., 207 Buttonwood

Philadelphia Art Metal Mfg. Co., 328 Noble

Philadelphia Hardware & Malleable Iron

Works (Inc.), 9th & Jefferson

Phosphor-Bronze Smelting Co. (Ltd.), 2200

Wash'n av

Reeves, Paul S. & Son, 1415 Catharine

Savill, Thos. & Sons, 11th & Wood

Schoenewald, Robt., 1027 Ridge av

Sheeler-Hemsher Co., 811 Fairmount av

Talmage & Weidley, 2

Excelsior Brass Works (Inc) (Dry & Green Sand)
Hercules Brass Foundry & Pattern Works
Kline & Co.
National Brass & Iron Works
RIDGWAY—Ridgway Foundry Co.
SCOTTDAL—Scottdale Foundry & Machine
SCRANTON—Everhart Brass Works Co.
Hughes Bros.
McClave-Brooks Co.
Scranton Steam Pump Co.
SHARON—Sharon Brass Mfg. Co.
WARREN—Allegheny Foundry Co.
Jacobson Machine Mfg. Co. (Also Iron)
WILKES-BARRE—Vulcan Iron Works
WILLIAMSPORT—Darling Pump & Mfg. Co.
United States Machine Co. (also Iron)
Valley Iron Works (also Iron)
YORK—Penna. Foundry Co.

RHODE ISLAND.

CENTRAL FALLS—Newell, Fred E.
PAWTUCKET—City Brass Foundry
Jenkinson Brass Foundry
McKenna, Frank & Co.
Pawtucket Foundry Co.
PROVIDENCE—Allen Fire Dep't Supply Co.
Builders' Iron Foundry
Fuller, Frederic, 604 S Main
Globe Brass Foundry, 38 Wayne
Lyon, J. W., 46 Clifford
Pickup, Jos. C. Brass Co., 31 Wyatt
Providence Brass Foundry & Machine Co.
Rhode Island Brass Foundry 460 Eddy
Stillman Bros. Co., 77 Blackstone
White, Stillman Foundry Co., 1 Bark
WOONSOCKET—Woonsocket Brass Furnishing Co.

SOUTH CAROLINA.

CHARLESTON—Charleston Iron Works
COLUMBIA—Columbia Machine & Iron Works

TENNESSEE.

CHATTANOOGA—Herron Pump & Foundry Co.
Price-Evans Foundry Co. (Also Iron)
KNOXVILLE—Fair Foundry Co.
Knoxville Foundry & Machine Co.
MEMPHIS—Chickasaw Iron Works, 2d e Winchester
Memphis Brass Works

TEXAS.

BEAUMONT—Beaumont Iron Works
DALLAS—Dallas Brass Works
Mosher Mfg. Co.
Noizet, Louis A.
DENISON—Knaur & Howe (also Iron)
Knaur, W. E. & Co.
EL PASO—Pass City Foundry & Machine Co.
FORT WORTH—Bird Brass Works (Railroad
Midland Brass Works Brasses, etc.)
GALVESTON—Walsh & Cleary (also Iron)
HOUSTON—Dickson Car Wheel Co.
MARSHALL—Marshall Car Wheel & Foundry
TYLER—Tyler Iron Works Co.
WEATHERFORD—Weatherford Machine & Foundry Co.

UTAH.

SALT LAKE—Sale Lake Engineering Works
Union Foundry & Machinery Co.

VERMONT.

BELLOWS FALLS—Bellows Falls Machine Co.
POULTNEY—Ruggles Machine Co.
ST. ALBANS—St. Albans Foundry & Implement Co.

VIRGINIA.

LYNCHBURG—Hubard Foundry & Machine Works
NORFOLK—Edmonds, Walter, 356 to 362 Water
PORTSMOUTH—Ornamental Iron & Wire Co. (Inc.)
RICHMOND—Cameron-Tennant Machine Works
Carr, Jas. W.
James, Alonzo E.
McGee & Pollard
Richmond Foundry & Mfg. Co. (Light)
Richmond Iron Works
Shockoe Foundry Co.
Snyder, Asa & Co.
Tredegar Iron Works
SUFFOLK—Ousler, H. M. (also Iron)

WASHINGTON.

BALLARD—Ballard Iron Works
BELLINGHAM—Bellingham Engineering & Machine Works
Zeeve, J. W.
EVERETT—Sound Iron Works
OLYMPIA—Olympia Iron Works (C. Z. Mason, Prop.) (also Iron)
SEATTLE—Aztec Copper Mfg. Co., Walker bldg
Aztec Tempered Copper Co., Burke bldg
Columbia Brass Foundry, 1533 R. R. av, S.
Eagle Brass Foundry, 1228 R. R. av, S.
Moran Bros. Co., R. R. av nr Charles
Seattle Aztec Copper & Brass Co., 1238 Maynard av
Thurlow & Carey, 92 W Virginia
Vulcan Iron Works, 5th av & Seattle boul
SPOKANE—National Iron Works
Pacific Iron Works
TACOMA—Griffin Wheel Co. (also Iron)
Puget Sound Iron & Steel Works
Tacoma Brass & Machine Works

WEST VIRGINIA.

MARTINSBURG—Brooklyn Brass Mfg. Co.
NEW CUMBERLAND—Davis-Price Foundry & Machine Co.
PARKERSBURG—Parkersburg Casting Co.
WHEELING—Wheeling Mold & Foundry Co.

WISCONSIN.

BELOIT—Beloit Brass Works
BURLINGTON—Burlington Brass Works
KENOSHA—Badger Brass Mfg. Co.
LA CROSSE—Franklin Iron Works (Also Iron)
MILWAUKEE—Haertlein, B. & Co., 1208 St. Paul av
Hewitt Mfg. Co. (up to 2000 lbs.), 241 Greenfield av
Hoffmann, B. Mfg. Co., 257 6th
Hoffman & Billings Mfg. Co., 96 2d
Johnson Service Co.
Kruecke Bros. Mfg. Co., 515 Park
Lamp & Miller Mfg. Co., 509 Cedar
Loeffelholz Co., 170 Clinton
Mellen, Wm. & Son, 340 Barclay
Milwaukee Valve Co., 871 Robinson av
Rundle-Spence Mfg. Co., 63 2d
Spence Mfg. Co., 279 Park
Standard Brass & Machine Works, 1820 St. Paul av
OSHKOSH—Oshkosh Iron & Metal Co.
RACINE—Belle City Mfg. Co.
Racine Brass & Iron Co.
SOUTH MILWAUKEE—Stowell Mfg. & Foundry Co.
STEVENS POINT—Cook, R. A.
WATERTOWN—Brandt, Edw. J. Dent Co.

Castings (Bridge)

AMERICAN BRAKE SHOE & FOUNDRY Co., 170 B'way, New York. Works & Sales Office, Chicago Heights, Ill. (See adv. index & branch offices, end of book)
Builders' Iron Foundry (For Caissons, etc.), Providence, R. I.
Chester Steel Castings Co., 407 Sanson, Phila., Pa., & Chester, Pa.

Castings (Britannia Metal)

Hanck Mfg. Co. (Art Castings, etc.), 322 W Pearl, Cincinnati, O.

UNION EQUIPMENT AND BRONZE CO.
520 W 36th, N. Y. (See adv. outside stencil)

Castings (Bronze)

See also Castings, Aluminum;
Castings, Brass;
Castings, Copper;
Castings, Phosphor Bronze.
Acorn Brass Mfg. Co., 51 N Peoria, Chicago, Ill.
Ajax Metal Co., 46 Richmond, Philadelphia, Pa., & Birmingham, Ala.
Allyne Brass Foundry Co., Cleveland, O.
Aluminum Metal & Chemical Co., 153 Milk, Boston, Mass.
American Brass & Phosphor-Bronze Foundry, 458 E 10th New York
American Bronze Foundry Co., 73d & Woodlawn, Chicago, Ill.
American Car & Ship Hdw. Mfg. Co., New Castle, Pa.
American Pin Co., Waterbury, Conn.
Ames Foundries, Chicopee, Mass.

Anderson, A. H. (Light & Heavy), 52 N Ann, Chicago, Ill.
Angus, C. H., Albany, N. Y.
Appleton Screen Plate Co., Appleton, Wis.
Atlas Silver Foundry Co., Attleboro, Mass.
Aurora Metal Co., Aurora, Ill.
Babbitt, Chas. E., Portland, Maine.
Bailey-Farrell Mfg. Co., Pittsburg, Pa.
Bastian, C. L. Mfg. Co., 76 Illinois, Chicago, Ill.
Bay State Brass Foundry, 155 A, So. Boston, Mass.
Beaver Valley Metal Co., New Brighton, Pa.
Belfield, H. & Co., 435 N Broad, Phila., Pa.
Best Mfg. Co., Pittsburg, Pa.
Best Light Co., Canton, O.
Bird Brass Works, Ft. Worth, Tex.
Blake, Edwin J., Hartford, Conn.
Brady Brass Co., 204 10th, Jersey City, N. J.
Bridgeport Deoxidized Bronze & Metal Co., Bridgeport, Conn.
Brighton Brass & Bronze Co., New Brighton, Pa.
Bristol Brass Co., Bristol, Conn., & 46 W B'way, New York
Brown, Chris., Stanford, Conn.
Buckeye Brass Foundry, Cleveland, O.
Buckeye Brass Foundry, Vine & Armstrong, Columbus, O.
Buckeye Iron & Brass Wks., Dayton, O.
Builders' Iron Foundry (Light & Heavy up to 70,000 lbs.), Providence, R. I.
Bureau Bros., Allegheny ave., c. N. 21st, Phila., Pa.
Cadman, A. W. Mfg. Co., 2814 Smallman, Pittsburg, Pa.
California Artistic Metal & Wire Co., 351 Seventh, San Francisco, Cal.
Chambers & Ainslee, Newark, N. J.
Champion Safety Lock Co., Geneva, O.
Chapman, J. B. & Co., Springfield, Mass.
Chicopee Bronze Works, Chicopee, Mass.
Cincinnati Brass & Bronze Co., 1243 W 6th, Cincinnati, Ohio
CINCINNATI MFG. CO., 1243 W 6th, Cincinnati, O. (See adv. index, end of book)
City Brass Foundry Co., Cleveland, O.
Clark, John W., Albany, N. Y.
Claudat, Frank & Son, 424 E 23d, New York
Cleveland Bronze & Brass Works (Light & Heavy), 1140 Hamilton, Cleveland, O.
Clum & Atkinson, Rochester, N. Y.
Cohoes Iron Foundry & Mach. Co., Cohoes, N. Y.
Connellsville Machine & Car Co., Connellsville, Pa.
Cornell, J. B. & J. M., Co., 26th & 11th av, New York
Crown Smelting Co., Chester, Pa.
Damascus Bronze Co., Allegheny, Pa.
Darling Pump & Mfg. Co. (Ltd.), Williamsport, Pa.
Davies & Thomas Co., Catasauqua, Pa.
Dempsey, Jno. F. & Co., Lynn, Mass.
Eastwood Wire Mfg. Co. (1/4-oz. to 20,000 lbs.), Belleville, N. J.
Enterprise Brass Works, Muskegon, Mich.
Enterprise Foundry Co., 48 Olean, Rochester, N. Y.
Eynon-Evans Mfg. Co., 1509 Clearfield, Philadelphia, Pa., & 32 B'way, New York
Eureka Tempered Copper Works, North East, Pa.
Falcon Bronze Co., Youngstown, O.
Frankham, Wm., Son, Canton, O.
Fries & Co., 91 Main, Buffalo, N. Y.
Fuller, Frederic, Providence, R. I.
Garratt, W. T. & Co. (Inc.), 140 Fremont, San Francisco, Cal.
Gilb, V. & Son, Birmingham, Ala.
Gilroy & Johnson, Utica, N. Y.
Globe Brass Co., 13 Macomb, Detroit, Mich.
Gorham Co., Providence, R. I.
Grand Rapids Brass Co., Grand Rapids, Mich.
Guerin, P. E., Inc., 23 Jane, N. Y. city.
Halstead & Co., 1129 Cherry, Phila., Pa.
Hamden Brass Co., Springfield, Mass.
HARDY, WM. A. & SONS CO., Fitchburg, Mass. (See adv. index, end of book)
Harring-Attwood Brass Mfg. Co. (Heavy), Grand Rapids, Mich.
Hauck Mfg. Co. (Art Castings, etc.), 322 W Pearl, Cincinnati, O.
HENRY-BONNARD BRONZE CO., Sales Office, 5 & 7 E. 42d, New York, Works, Mt. Vernon, N. Y. (See adv. index, end of book)
Hendryx, Andrew B. Co., New Haven, Conn.
Henzmann, Richd., Iron Works, Louisville, Ky.
Hi-Speed Bronze Co., 2235 Vine st., Phila., Pa.
Hoban Brass Foundry Co., 44 Wyandot, Dayton, O.
Hofeller Brass Foundry Co., 146 Virginia, Buffalo, N. Y.
Ideal Bronze Co., Cleveland, O.
Ireland & Matthews Mfg. Co., Detroit, Mich.
Ives, Hobart B. Co., New Haven, Conn.
JACKSON, WM. H. COMPANY, 29 E 17th (Union sq.), New York. (See adv. index, end of book)

Jefferson Brass Foundry, 209 King, Brooklyn, N. Y.
 Jenkins Mfg. Co., Bloomfield, N. J.
 Johnson Service Co., Milwaukee, Wis.
 Jones, Jas. Co., Los Angeles, Cal.
 Kemp, Wm. & Son, Troy, N. Y.
 Kellogg-McCrum-Howell Co., Uniontown, Pa.
 Keystone Bronze Co., Pittsburg, Pa.
 Kindred & Taylor, Worcester, Mass.
 Kingsland-Kay-Cook Mfg. Co., Mullanphy, 11th to 12th, St. Louis, Mo.
 Knott, Harker & Co., Beaver Falls, Pa.
 Kraushaar Brass Mfg. Co., St. Louis, Mo.
 Kruecke Bros. Mfg. Co., 515 Park.
 Laughlin, Thos. Co., Portland, Me.
 Lawrenceville Bronze Co. (Railroad, Machinery, etc.), Pittsburg, Pa.
 Leslie Co., Inc., Lyndhurst, N. J.
 Levett, Walker M., 462 10th av, New York
 Light Mfg. & Foundry Co., Pottstown, Pa.
 Livermore, Homer F., 85 Pearl, Boston, Mass.

LUMEN BEARING CO., Buffalo, N. Y.
 (See adv. index, end of book)

LUNKENHEIMER CO., General Offices, Beekman & Waverly, Cincinnati, O.
 (See adv. index & branch offices, end of book)

McCartney, Josiah, Bay City, Mich.
 McCafferty, J. H. & Co., 434 Harrison av, Boston

McGanhey, Thos. F. & Sons Co. (Art, etc.), 104 Portland, Boston, Mass.

Macneir Leonidas, 624 Arch.
 Magnus Metal Co. (Unit), General Offices, 612 Fidelity bldg, Buffalo, N. Y.

Manhattan Brass Co., 334 E 28th, N. Y.
 Mansfield Tempered Copper Co., Mansfield, O.

Menough Foundry Co., Wellsville, O.
 Michaels, Lewis, 216 W. Pearl, Cincinnati, O.

Midland Brass Works, Ft. Worth, Tex.
 Midland Metal Co., 1427 Catherine, Phila., Pa.

Miller, J. Walter, Lancaster, Pa.
 Miller, Edward & Co., Meriden, Conn., & 28 W B'way, N. Y.

Minneapolis Brass & Iron Mfg. Co., 116 1st av, N. Minneapolis, Minn.

Montana Iron Works, Butte, Mont.
 Mousley, Chas. & Sons, 457 N. 12th, Phila., Pa.

Murdock-Shaw Co., Boston, Mass.
 National Brass & Iron Works, 64 Federal, Boston, Mass.

National-Fulton Brass Mfg. Co. ("Monarch"), Detroit, Mich.

National Novelty Corporation (Small), 826 B'way, New York

Nazareth Foundry & Machine Co., Nazareth, Pa.
 Newell, Fred E. (Also Aluminum Bronze), Central Falls, R. I.

Noelke-Richards Iron Works, Indianapolis, Ind.
 Norwalk Brass Co., Norwalk, Conn.

Noyes Brass Works, Erie, Pa.
 Nunn Brass Works (Inc.), Rochester, N. Y.

Ohio Brass Co., Mansfield, O.
 Ohio Brass Foundry (all kinds of Bronze and Brass Castings), 267 Ludlow, Cincinnati, O.

Ohio Pump & Brass Co., 18th & Oak, Columbus, O.

Ohnstrand Metal Furniture Co., Jamestown, N. Y., & 5 & 7 E. 42d, New York

Penn Brass Works, Chester, Pa.
 Petry, N. A., 422 Commerce.

Pevey Bros., Lowell, Mass.
 Philadelphia Bronze Works, 811 Cherry.

Philadelphia Hardware & Malleable Iron Works (Inc.), 9th & Jefferson, Phila., Pa.

Phosphor Bronze Smelting Co., 2200 Wash'n av, Philadelphia, Pa.

Pierce, Butler & Pierce Mfg. Co., Syracuse, N. Y.

Pittsburg Brass Mfg. Co., 3153 Penn av, Pittsburg, Pa.

Pioneer Brass Works, Indianapolis, Ind.
PITTSBURG VALVE, FOUNDRY & Construction Co., 26th & A V Ry., Pittsburg, Pa. (See adv. index, end of book)

Pleuger & Henger Mfg. Co., 11th & Hebert, St. Louis, Mo.

Portland Co., Portland, Me.
 Pratt & Cady Co., Hartford, Conn.

Providence Brass Foundry & Machine Co., Providence, R. I.

Reeves, Paul S. & Son, 1413 Catharine, Philadelphia, Pa.

Reliable Bronze Co., Pittsburg, Pa.
 Rhode Island Brass Foundry, Providence, R. I.

Richardson, E., 316 N Holliday, Baltimore, Md.
 Richey, Browne & Donald, Maspeth, Borough of Queens, New York City

Ridgway Foundry Co., Ridgway, Pa.
 Roman Bronze Co., 289 Greene, Brooklyn, N. Y.

Rowell, W. G. Co., Bridgeport, Conn.
 Ryan, J. J. & Co., 105 S Jefferson, Chicago, Ill.

St. Paul Foundry Co., St. Paul, Minn.
 Sanford David C. Co., Bridgeport, Conn.

Sheeler-Hemsher Co., 811 Fairmount av, Phila., Pa.
 Sherwood Mfg. Co., Buffalo, N. Y.

Shockoe Foundry Co., Richmond, Va.
 Shriver, T. & Co., 333 E 56th, New York

SMITH, F. P. WIRE & IRON WORKS.

100 Lake, Chicago. (See adv. index, end of book)

Spence Mfg. Co., 279 Park, Milwaukee, Wis.
 Spencer's, I. S. Sons, Guilford, Conn.
 Springfield Brass Co., Springfield, O.

Standard Bronze Co., Pittsburg, Pa.
 Stover Mfg. Co., Freeport, Ill.

Strow-Patchell Machine & Foundry Co., Charleston, W. Va.

Syracuse Aluminum & Bronze Co., Syracuse, N. Y.

Toledo Brass & Iron Works, Toledo, O.
 Toledo Bronze Co. (Heavy), Toledo, O.

Toledo Shipbuilding Co., Toledo, O.
 Turney Copper & Bronze Co., Cleveland, O.

Turner Brass Works, 66 Michigan, Chicago, Ill.
 Twentieth Century Brass & Iron Works, Minneapolis, Minn.

Every Article Bearing this Trade Mark has Distinctive Merit in Craftsmanship and Artistic Finish.

UNION EQUIPMENT AND BRONZE CO.

514-520 WEST 36TH ST. NEW YORK

ARCHITECTS WORK SOLICITED

Union Brass Fdy. Co., Lowell, Mass.
 United Bronze Castings Co., Cuyahoga Falls, O.

United Engineering & Foundry Co. (All weights), Farmers' Bank bldg, Pittsburg, Pa.

U. S. Bronze Co., 1831 Columbus road, Cleveland, O.

Valley Iron Works Co., Appleton, Wis.
 Van Duzen, E. W. Co., 428 E 2d, Cincinnati, O.

Watson, Frye & Co. (Railroad, Mill & Marine, Acid Proof, 1/4 to 20,000 lbs), Bath, Me.

Wells Chemical Bronze Works, Worcester, Mass.
 White Bronze Metal Works, Dayton, O.

Williams, E. A. & Son, 105 Plymouth, Jersey City, N. J.

Williams, John, 558 W 27th, New York
 Youngstown Bronze Co., Youngstown, O.

Castings (Builders')

(See firms marked with a Star (*) in Iron, Architectural & Ornamental; also Machinists & Founders)

*Castings (Carbon)

AMERICAN BRAKE SHOE & FOUNDRY Co. (High Carbon), 170 B'way, New York. Works & Sales Office: Chicago Heights, Ill. (See adv. index & branch offices, end of book)

Castings (Chemical Works)

BETHLEHEM FOUNDRY & MACHINE Co., South Bethlehem, Pa. (See adv. on following page)

Caroline Iron Works, 723 S. Caroline, Baltimore, Md.

Co-Operative Foundry Co., Detroit, Mich.
 Cornell, J. B. & J. M., Co., 26th & 11th av, New York

Eastwood Wire Mfg. Co., Belleville, N. J.
 Larrabee, H. C. & Co., Baltimore, Md.

LUNKENHEIMER CO., General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

Moore Bros. Co. (High Grade), Elizabeth, N. J.
 Philadelphia Roll & Machine Co., S. 23d & Wash'n av, Phila., Pa.

Riverside Foundry Co., Cleveland, O.
 Wood, R. D. & Co., 400 Chestnut, Phila., Pa.

Castings (Chrome Steel)

AMERICAN BRAKE SHOE & FOUNDRY Co., 170 B'way, New York. Works & Sales Office, Chicago Heights, Ill. (See adv. index & branch offices, end of book)

Chrome Steel Works (Crucible & Open Hearth), Chrome, N. J.

Taylor Iron & Steel Co., High Bridge, N. J.

*Castings (Compressor)

AMERICAN BRAKE SHOE & FOUNDRY Co. (Steel), 170 B'way, New York. Works & Sales Office: Chicago Heights, Ill. (See adv. index & branch offices, end of book)

Castings (Copper)

Aluminum Metal & Chemical Co., 153 Milk, Boston, Mass.

Babbitt, Chas. E., 440 Fore, Portland, Me.

Bailey-Farrell Mfg. Co., Pittsburg, Pa.
 Belfield, H. & Co., 435 N. Broad, Phila., Pa.

Best Mfg. Co., 25th & A. V. Ry., Pittsburg, Pa.
 Bird Brass Works, Ft. Worth, Tex.

Bridgeport Deoxidized Bronze & Metal Co., Bridgeport, Conn.

Buckeye Brass Foundry, Cleveland, O.
 Central Brass Works, Toledo, O.

City Brass Foundry Co., Cleveland, O.
 Connellsville Machine & Can Co., Connellsville, Pa.

Crown Smelting Co., Chester, Pa.
 Dallas Brass Works, Dallas, Tex.

DOBBIE FOUNDRY & MACHINE CO., Main Office & Works: Niagara Falls, N. Y. (See adv. index & branch offices, end of book)

Eastwood Wire Mfg. Co., Belleville, N. J.
 Enterprise Brass Works, Muskegon, Mich.

Eureka Tempered Copper Works, North East, Pa.

Eynon-Evans Mfg. Co., 1509 Clearfield, Philadelphia, Pa., & 32 B'way, New York

Forest City Electric Co., 5003 Windsor av, Cleveland, O.

Genessee Metal Works, Rochester, N. Y.
 Gilb, V. & Son, Birmingham, Ala.

Gilroy & Johnson, Utica, N. Y.
 Great Lakes Brass Foundry, Detroit, Mich.

Hampden Brass Co., Springfield, Mass.
 Hardoin, Nicholas, 132 Larned, E. Detroit, Mich.

Hauck Mfg. Co. (Art Castings, etc.), 322 W Pearl, Cincinnati, O.

Hendryx, Andrew B. Co., New Haven, Conn.
 Ireland & Matthews Mfg. Co., Detroit, Mich.

Jefferson Brass Foundry, 209 King, Brooklyn, N. Y.
 Jenkins Mfg. Co., Bloomfield, N. J.

Johnson Service Co., Milwaukee, Wis.
 Kemp, Wm. & Son, Troy, N. Y.

Lawrenceville Bronze Co. (Railroad, Machinery, etc.), Pittsburg, Pa.

LUMEN BEARING CO., Buffalo, N. Y.
 (See adv. index, end of book)

McCartney, Josiah (Solid), Bay City, Mich.
 Mansfield Tempered Copper Co., Mansfield, O.

Midland Brass Works, Ft. Worth, Tex.
 Minneapolis Brass & Iron Mfg. Co., 116 1st av, N. Minneapolis, Minn.

Ohio Brass Co., Mansfield, O.
 Pevey Bros., Lowell, Mass.

Pickup, Jos. C., Brass Co., 31 Wyatt, Providence, R. I.

Pittsburg Brass Mfg. Co., Penn av & 32d, Pittsburg, Pa.

Pleuger & Henger Mfg. Co., 11th & Hebert, St. Louis, Mo.

Reeves, Paul S. & Son, 1415 Catharine, Phila., Pa.

Rowell, W. G. Co., Bridgeport, Conn.
 Ryan, Jno. & Co., Lowell, Mass.

Ryan, J. J. & Co., 105 S Jefferson, Chicago, Ill.
 St. Paul Foundry Co., St. Paul, Minn.

Sheeler-Hemsher Co., 811 Fairmount av, Phila., Pa.

Shriver, T. & Co., 333 E 56th, N. Y.
 Sterlingworth Railway Supply Co., North American bldg, Phila., Pa.

Testchan, L. A., Troy, N. Y.
 Toledo Brass & Iron Works, Toledo, O.

Turner Brass Works, Franklin & Michigan, Chicago, Ill.

Union Brass Foundry Co., Lowell, Mass.
 Ward, Williams & Cruse Co., Hancock, Mich.

Wells Chemical Bronze Works, Worcester, Mass.
 West Side Foundry Co., Watervliet, Troy, N. Y.

Williams, E. A. & Son, 105 Plymouth, Jersey City, N. J.

Castings (Electrical)

AMERICAN BRAKE SHOE & FOUNDRY Co., 170 B'way, New York. Works & Sales Office, Chicago Heights, Ill. (See adv. index & branch offices, end of book)

Chester Steel Casting Co., Chester, Pa., & 407 Sansom, Phila., Pa.

Davies & Thomas Co., Catasauqua, Pa.

Drummond, M. J. & Co., 182 B'way, N. Y.

Hayes Foundry Co., Lynn, Mass.

Jones, W. A. Foundry & Machine Co., 143 W. North av, Chicago, Ill.

*Castings (Elevator)

AMERICAN BRAKE SHOE & FOUNDRY Co., 170 B'way, New York. Works & Sales Office, Chicago Heights, Ill. (See adv. index & branch offices, end of book)

***Castings for Gold Dredges**

AMERICAN BRAKE SHOE & FOUNDRY CO., 170 B'way, New York. Works & Sales Office, Chicago Heights, Ill. (See adv. index & branch offices, end of book)

Castings ("Franklin" Metal)

Franklin, H. H. Mfg. Co. (Finished Castings), Syracuse, N. Y.

***Castings (Gas Engine)**

AMERICAN BRAKE SHOE & FOUNDRY CO., 170 B'way, New York. Works & Sales Office, Chicago Heights, Ill. (See adv. index & branch offices, end of book)

Castings (Gas & Water)

(See Cast Iron Pipe Mfrs., Gas & Water; also Gas Works Apparatus & Construction for Castings for Gas Works)

Castings (German Silver)

Chambers & Ainslee, Newark, N. J.
Jenkins Mfg. Co., Bloomfield, N. J.
Riverside Metal Co., Riverside, N. J.

UNION EQUIPMENT AND BRONZE CO.
520 W 36th, N. Y. (See adv. outside stencil)
Waterbury Brass Co., Waterbury, Conn.

***Castings (Glass Furnace)**

AMSLER ENGINEERING CO., Diamond Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

Castings (Grey Iron)

(This List is duplicated under Machinists & Founders; see also Founders, Malleable Iron)

CALIFORNIA.

LOS ANGELES—Llewellyn Iron Wrks

McCan Mechanical Works

Washington Iron Foundry

SAN FRANCISCO—Graham, Jas. Mfg. Co.

(Light), 27 Minna

MINNEAPOLIS STEEL & MACHINERY CO. (Heavy), 633 Monadnock bldg.

(See adv. index, end of book)

Richmond Foundry & Mfg. Co. (Light & Heavy), 516 Market

COLORADO.

DENVER—**MINNEAPOLIS STEEL & Machinery Co.**, 313 Exchange bldg. (See adv. index, end of book)

CONNECTICUT.

BRIDGEPORT—Bridgeport Malleable Iron Co. Parsons, R. E. Co. (Refined)

BRISTOL—Sessions Foundry Co. (Small & Large to order)

DERBY—Birmingham Iron Foundry (Heavy)

GUILFORD—Spencer's, I. S. Sons

HARTFORD—Hartford Foundry Corporation

Laragy, P.

Pratt & Cady Co.

MIDDLETOWN—Wilcox, Crittenden & Co.

NEW BRITAIN—Malleable Iron Works

Union Mfg. Co. (Light)

Vulcan Iron Works (Malleable)

NEW HAVEN—Barnum, S. H.

Stannard Iron Foundry, The

Warner, G. F. Mfg. Co.

NEW LONDON—Hopson & Chapin Mfg. Co.

NORWALK—Arnold Co., The

Meeker's Union Foundry Corporation

NORWICH—Vaughn Foundry Co.

ROCKY HILL—Champion Mfg. Co.

SHELTON—Meyer, Fred'k (Small Castings a Specialty)

SOUTH NORWALK—Colonial Foundry & Machinery Co.

Norwalk Iron Works Co. chinery Co.

United States Foundry & Sales Co. (for all

Wheeler Bros. Purposes)

STAMFORD—Stamford Iron & Brass Foundry

TORRINGTON—Turner & Seymour Mfg. Co. (Small)

Fry, B. H. & Co. (Low and Medium Grade Castings)

WATERBURY—Manufacturers' Foundry Co. (Cylinder)

WINSTED—MOORE, FRANKLIN CO.

(Light) (See adv. index, end of book)

DELAWARE.

WILMINGTON—Harlan & Hollingsworth Corporation (Rough & Finished)

Hilles & Jones Co. (up to 75 tons)

Edgemoor Iron Co.

GEORGIA.

ATLANTA—Atlanta Machine Works, 1 King

Withers, W. S.

SAVANNAH—Kehoe's Iron Works

ILLINOIS.

AURORA—Aurora Foundry Co. (Machine Pul

Love Bros. (Inc.) ley Castings, etc.)

CHICAGO—**ABENDROTH & ROOT MFG.**

Co., 410 Monadnock blk. (See adv. index, end of book)

AMERICAN BRAKE SHOE & FOUNDRY CO.

Brady, Jas. A. Foundry Co. (Soft Gray), 2892

Archer av

Chicago Hardware Foundry Co. (Best Light

Gray), 45 W Washington

Congress Iron Foundry (John Kelly, Prop.)

(Small, up to 3,000 lbs., Congress & 46th

av

Davison Foundry Co. (Light & Heavy), 235

Johuson

Dee, Wm. E. Co., Royal Ins. bldg

Eddy, R. M. Foundry Co. (Boiler & Ma-

chinery, Castings, Grate Bars, et.), 59

Indiana

Featherstone Foundry & Machine Co. (For

Railroad Use), 303 Railway Ex.

Illinois Malleable Iron Co., 30 W Monroe

Chicago, Ill

Klemp, Wm. F. & Co. (Building, Machinery,

& Light), 138 Washington

MINNEAPOLIS STEEL & MACHIN-

ery Co. (Cavanaugh-Darley Co., Rep.),

21-25 Plymouth ct. (See adv. index, end

of book)

Mudd Mfg. Co., N 56th av & Armitage av

REEDY FOUNDRY CO., 91 Illinois.

(See adv. index, end of book)

SMITH, F. P. WIRE & IRON

Works, 100 Lake. (See adv. index, end of

book)

Tarrant Foundry Co. (Light & Heavy), 46

Indiana

Western Foundry Co. (Light Gray), 3654 S

Albany av

Wagner & Marshall Co., 40 Dearborn

CHICAGO H'GHTS—AMERICAN BRAKE

Shoe & Foundry Co. (See adv. index, end

of book)

DECATUR—Oakes, Wm. L.

FRANKLIN PARK—Forster, Waterbury & Co.

FREEPORT—Arcade Mfg. Co. (Light)

Stover Mfg. Co. (Light)

LITCHFIELD—Litchfield Foundry & Machine

MORRIS—Nickel Mfg. Co. (Small)

QUINCY—Central Iron Works

STERLING—Sterling Foundry Co.

INDIANA.

EVANSVILLE—Indiana Stove Works

FORT WAYNE—Bass Foundry & Machine Co.

INDIANAPOLIS—Enterprise Foundry & Fence

Co.

McNamara-Koster Foundry Co. (Light &

Heavy), 408 S Penn

National Malleable Castings Co.

Over, Ewald, 426 S Penn

MARION—Marion Grey Iron Foundry Co.

MUNCIE—Muncie Foundry & Machine Co.

SOUTH BEND—Meyer Foundry & Mfg. Co.

South Bend Foundry Co.

TERRE HAUTE—Gartland Foundry Co.

IOWA.

DAVENPORT—Davenport Foundry & Machine

Co.

MUSCATINE—Niver Iron Works Co. (Light &

Heavy, for all Purposes)

KENTUCKY.

COVINGTON—Drvege, I. & Sons Co. Foundry

LOUISIANA.

NEW ORLEANS—MINNEAPOLIS STEEL

& Machinery Co. (Heavy), Hennen bldg.

(See adv. index, end of book)

MARYLAND.

BALTIMORE—Baltimore Foundry Co., Bush cor.

Severn

Baltimore Malleable Iron & Steel Casting

Co. (Soft), c Charles & Wells

CAROLINE IRON WORKS, 723 Caroline

Carr, S. R. & Co., Essex st and Montford av

CHESAPEAKE IRON WORKS, Bush & B. & O.

R. R.

De Ved & Sons (All Kinds), 813 S Howard

Hay Foundry & Iron Works, 140 W Fayette

Lacy, Jas. J. & Co.

Montford Machiue Casting Co., Montford av

nr Chase

South Baltimore Steel Car & Foundry Co.

MASSACHUSETTS.

ATHOL—Athol Machine Co.

BOSTON—Laconia Car Co. Works, 100 Boylston

CHICOPEE—Buckley, Jas. C.

EASTON—Belcher Malleable Iron Co.

FITCHBURG—Fitchburg Foundry Co.

Goodnow, L. H. Foundry Co.

HOLYOKE—Houle, A. J. (Engine Sets with

Drawings)

SPRINGFIELD—Hawkins, R. F. Iron Works

Walsh Iron & Boiler Works

WALTHAM—Waltham Foundry Co.

Wason Mfg. Co.

WEST EVERETT—Smith, Jas.

MICHIGAN.

DETROIT—Acme Foundry Co., Beecher & M. C.

R. R.

Buhl Malleable Iron Co., Wight & Adair

Cadillac Motor Car Co. (Fine)

Detroit Stoker & Foundry Co. (Light &

Heavy), N. Grand Boulevard & Riopelle

Northwestern Foundry & Supply Co. (Light &

Heavy), Orleans & Detroit River

RUSSELL WHEEL & FOUNDRY

Co. (See adv. index, end of book)

GALESBURG—Standard Windmill & Mfg. Co.

JACKSON—Holton & Weatherwax Co., Ltd.

MENOMONEE—Prescott Co., The

SAGINAW—Bartlett, A. F. & Co.

YPSILANTI—Michigan Machinery Mfg. Co.

MINNESOTA.

ALBERT LEA—Enterprise Iron Works.

MINNEAPOLIS—Bryant & Lee Co. (All kinds).

Crown Iron Works.

MINNEAPOLIS STEEL & MACHIN-

ery Co. (Heavy). (See adv. index, end of

book)

Northwestern Foundry (Inc.)

Standard Foundry & Machine Shop.

ST. PAUL—Buckeye Foundry, Starkey & Fair-

field av

Valley Iron Works.

Western Iron Works (Soft gray), Penn av &

ST. PETER—Boruemann, Adolph. Rice

SOUTH STILLWATER—So. Stillwater Iron

Works. (Iron & Brass)

STILLWATER—Jesse, August.

MISSOURI.

KANSAS CITY—MINNEAPOLIS STEEL

& Machinery Co. (Heavy), 1302 W. 11th. (See

adv. index, end of book)

ST. LOUIS—Banner Iron Works, Shaw av & Oak

Hill Ry.

Kingsland-Kay-Cook Mfg. Co., Mullanphy,

11th to 12th

Pleuger & Henger Mfg. Co. (Small), 11th &

Union Iron & Foundry Co., 1452 S. 2d.

Western Foundry & Sash Weight Co. (Light

& Novelty), 159 Miller

St. Louis Malleable Casting Co. Herbert

SPRINGFIELD—United Iron Works Co. (From

1-4 to 15,000 lbs.)

MONTANA.

BOZEMAN—Story Iron Works.

BUTTE—Montana Iron Works.

NEBRASKA.

OMAHA—MINNEAPOLIS STEEL &

Machinery Co. (Heavy), 1212 Harney. (See

adv. index, end of book)

NEW HAMPSHIRE.

LACONIA—Laconia Car Co. Works (of Boston,

Mass.)

LANCASTER—Thompson Mfg. Co.

NASHUA—White Mountain Freezer Co. (Light &

Heavy to Order)

NEW JERSEY.

BELLEVILLE—Eastwood Wire Mfg. Co.
 CAMDEN—Lancaster Machine & Structural Works. Works: Lancaster, Pa.
 ELIZABETH—Moore Bros. Co. (High Grade).
 ELIZABETHPORT—**BROWN, A. & F. CO.**
 (See adv. index, end of book)
 GRENLOCH—Bateman Mfg. Co. (Light, in quantities)
 HARRISON—**MARINE ENGINE & MACHINE CO.** (100 lbs. to 40,000 lbs.) (See adv. index, end of book)
 * Focht's, Geo. Sons, Hoboken, N. J.
 JERSEY CITY—Johnston's, Julius, Sons, 63 Hudson
 MAIWAH—**AMERICAN CAR & FOUNDRY CO.** (See adv. index, end of book)
 NEWARK—Barlow, Arthur S. (Soft), 28 Orange Meeker Foundry Co.
 Rudman Iron Foundry Co., 49 Herman Sacks, Louis, Iron Foundry, (Star Heel Plate Co.), Hamburg pl & Av L
 Traud, Alexander Co., 5 Maine
 NEW BRUNSWICK—Empire Foundry Co. (1 oz. to 5 ton)
 TRENTON—McFarland Foundry & Machine Works
 Reeves Foundry Co. (Heavy & Machinery)
 Thropp, John E., Sons Co.

NEW YORK.

ALBANY—Clark, John W.
 Townsend Furnace & Machine Shop Co.
 BUFFALO—Buffalo Co-op. Stove Co., Amherst & Tonawanda
 Buffalo Foundry Co. (Up to 100 tons)
 Frontier Iron Works, 2 Auburn Av.
 Ginther's, J. Sons Co., 419 B'way.
 Howard Iron Works, Chicago & Granger.
 Lake Erie Engineering Works. (Heavy, Rough & Machined)
 Lawler Iron Works, 67 Mississippi
 Standard Foundry Co., 48 Lakeview at
 Tront, H. G. Foundry, 226 Ohio.
 CAMBRIDGE—Lovejoy, H. H. & Son.
 CANASTOTA—Patten & Stafford Co. (Light & Medium)
 COHOES—**COHOES IRON FOUNDRY & MACHINE CO.** (See adv. index, end of book)
 CORNING—Allen, E. R. Foundry Co. (Medium & Heavy)
 COXSACKIE—Newbury, J. G.
 GOWANDA—Gowanda Agricultural Works.
 HORSEHEADS—Weller Hardware & Foundry
 MANLIUS—Cheney, S & Sons (Small) Co.
 MONROE—Newbury Mfg. Co. (For Steam Fittings, etc.)
 NEWBURGH—**ABENDROTH & ROOT**
 Mfg. Co. (See adv. index, end of book)
 Marvel, T. S. Shipbuilding Co.
 Newburgh Ice Machine & Engine Co.

NEW YORK CITY.
Borough of Brooklyn.

BROOKLYN—**BLISS, E. W. CO., 19**
 Adams, (See adv. index, end of book)
 Burr & Houston Co., 84 Calyer. (Light)
 Columbia Machine Works & Malleable Iron Co., 259 Chestnut
 Taylor & Co., Morgan & Norman avs.

Boroughs of Manhattan & Bronx

NEW YORK—**ABENDROTH & ROOT**
 Mfg. Co., 99 John. (See adv. index, end of book)
AMERICAN BRAKE SHOE & FOUNDRY CO., 170 B'way. (See adv. index, end of book)
 American Casting Co., 220 B'way.
 Best Mfg. Co., 39 Cortlandt.
BROWN, A. & F. CO., 25 Dey. (See adv. index, end of book)
 Crane, W. M. Co., 1133 B'way.
 Crown Casting Co., 141 B'way.
 Eaton, Cole & Burnham Co. (Founders & Finishers), 253 B'way. Works: Bridgeport, Conn.
 Gray Iron Casting Co., 826 B'way.
 Lehigh Foundry Co. (Light & Heavy), 149 B'way
MARINE ENGINE & MACHINE CO. (100 lbs. to 40,000 lbs.), 126 Liberty. (See adv. index, end of book)
 Mietz, August A., 128 Mott.
 National Novelty Corporation (Small), 826 Shriver, T. & Co., 333 E. 56th. B'way
 South Baltimore Steel Car & Foundry Co., 66 Beaver
 Treadwell, M. H. & Co. (10 to 50,000 lbs.)
 United States Ship Building Co. (Marine, etc.), 43 Cedar, N. Y.
 Universal Caster & Foundry Co. (Small & Medium), 1170 B'way

PEEKSKILL—Crane, Wm. M. Co.
 ROCHESTER—Eureka Foundry Co.
 Jouis, J. Emory
 SANDY HILL—Sandy Hill Iron & Brass Works.
 SYRACUSE—Alexander Iron Works.
 Empire Foundry Co.
 Smith & Caffrey (Prop's) (Phoenix-Porter Foundry), 1821 N. Salina
 Straight Line Foundry (Loam or Green Sand to 20,000 lbs.)
 TROY—Marshall Foundry.
 Neemes Bros. (Heavy)
 Reynolds, Chalou, Foundry Co.
 Reynolds, G. W. H. Foundry Co.
 West Side Foundry Co. (Plain & Machined, Light & Heavy), Westervliet
 UTICA—Utica Steam Engine & Boiler Works. (Semi-Steel)

NORTH CAROLINA.

RALEIGH—Raleigh Iron Works Co.

NORTH DAKOTA.

FARGO—Fargo Foundry Co.
 KENMARE—Gensmer, E. G.
 WAPETON—Walpeton Iron Works (All kinds)

OHIO.

AKRON—Akron Foundry Co.
 Nute, T. C. Foundry Co.
 Taplin-Rice & Co.
 BOWLING GREEN—Ohio Implement Co. (Light & Heavy)
 CANTON—American Roll & Foundry Co.
 Americau Sheet & Tin Plate Co., Roll & Machine Works. (Up to 20 tons)
CANTON FOUNDRY & MACHINE CO. (Light & Heavy) (See adv. index, end of book)
 CINCINNATI—Buckeye Foundry Co., The, Buck nr. Queen City av.
 Eureka Foundry Co., The, 1110 Richmond.
 Haney & Spieker (All Kinds), 125 W. 2d.
 Haven Malleable Castings Co., Dane & Knowlton
 Lane & Bodley Co., The, John & Water.
 Queen City Foundry Co. (All Kinds of Castings), Spring Grove av. & Alabama av.
 Tatum, Samuel C. Co. (Fine Castings), 414 W. Water
 Vulcan Foundry Co., The, 1984 Central av.
 CLEVELAND—Acme Foundry Co. (Fine, Light & Medium)
 Bowler Foundry Co.
 Ferro Machine & Foundry Co., Wade Bldg.
 Forest City Foundry & Mfg. Co. (Small)
 Interstate Foundry Co., E. 61st & Erie R. R.
 Macbeth Iron Co., Winslow & Center.
 Madison Avenue Foundry Co. (Light & Heavy), 155 E. Madison av.
 Ohio Foundry Co. (Light & Heavy)
 Palmers & De Mooy Foundry Co. (Light & Heavy)
 Riverside Foundry Co. (Specialty)
 Standard Foundry & Mfg. Co. (Light Castings & Hardware Specialties)
 Variety Iron & Steel Works Co. (Heavy)
 Walworth Run Foundry Co., 883 Empress
 COLUMBUS—Chase Foundry & Mfg. Co., Columbus, O.
 Hance-Brown Casting Co., Columbus, O.
 McDonald Bros.
 Safety Meter Lock Co. (Light Castings & Finishers)
 DAYTON—Buckeye Iron & Brass Works.
 Eureka Foundry Co., cor. Monument av. & Webster st.
 Ohio Foundry Co. (¼ lb. to 2 tons)
 Seybold Foundry Co.
 FINDLAY—Findlay Foundry & Machine Co.
 HAMILTON—Vulcan Foundry Co. (Light & Medium)
 LEIPSI—American Foundry Co. (Medium)
 LORAIN—Lorain Machine & Forge Co.
 MARIETTA—Pattin Bros. Co.
 MASSILLON—Christman Co.
 Heiman, A. & Bro.
 Hess-Snyder Co.
 Russell Engine Co.
 MOUNT VERNON—Cooper, C. & G. Co., The (Up to 6 Ton)
 NORWALK—Norwalk Iron & Brass Foundry Co.
 SPRINGFIELD—Fairbanks Co.
 Gray Iron Casting Co.
 Hennessy Foundry Co.
 Robbins & Meyers Co. (Light & Medium)
 Springfield Malleable Iron Co.
TOLEDO—DONOVAN WIRE & IRON CO. (See adv. index, end of book)
 Toledo Castings Co.
 Ricard Boiler & Engine Co.
 Toledo Ship Building Co.
 Wilks Foundry Co. (Heavy Castings a Specialty)
 YOUNGSTOWN—Youngstown Bronze Co. (Small)
 Youngstown Car Mfg. Co. (Medium Weight)
 Youngstown Engineering Co.

PENNSYLVANIA.

ALLEGHENY—Monongahela Casting Co.
 Pennsylvania Casting Co.
 ALLENTOWN—Daugherty Foundry Co. (Light & Heavy)
 ALTOONA—Altoona Fdry. & Mach. Co.
 BUTLER—Butler Engine & Foundry Co.
 CHESTER—Johnston Railroad Frog & Switch Vulcan Works Co.
 COLUMBIA—Columbia Grey Iron Co. (Light)
 DUBOIS—Dubois Iron Works.
 EASTON—Easton Foundry & Machine Co.
 ELLWOOD CITY—Standard Engineering Co. (Up to 25 Tons)
 ERIE—Cascade Foundry Co.
 National Foundry Co.
 Walker Foundry Co.
 FRANKLIN—Franklin Rolling Mill & Foundry Co.
 FREEMANSBURG—Shimer, Wm. Sons & Co.
 FULLERTON—Lehigh Foundry Co. (Up to 50 Tons, Rough or Machined)
 GROVE CITY—Bessemer Foundry Co.
 HARRISBURG—Harrisburg Foundry & Machine Works
 JOHNSTOWN—Johnstown Foundry, Machine & Car Co.
 Lorain Steel Co. (Specialty R. R. Castings)
 KUTZTOWN—Kutztown Foundry & Machine Co.
 LANCASTER—Blickendefer, Richard.
 Hubley Mfg. Co. (Light Finished in any Manner)
 Lancaster Machine & Structural Works of
 LANSDALE—Heebner & Sons Camden, N. J.
 LEBANON—Lebanon Foundry Co. (Up to 5 ton)
 Treadwell, M. H. & Co. (10 to 50,000 lbs.)
 MANHEIM—Baum Separator & Machine Co. (Light and Medium Heavy)
 MOUNT JOY—Grey Iron Casting Co.
 NAZARETH—Nazareth Foundry & Mach. Co.
 NORRISTOWN—Wildman Mfg. Co. (Light)
 PHILADELPHIA—Bernstein Mfg. Co., 3d and Westmoreland, Philadelphia, Pa.
 Best Mfg. Co., Betz Bldg.
 Creswell, Sam J. Iron Works, 23d cor. Cherry
 North Bros. Mfg. Co., Lehigh av. and American
 Philadelphia Hardware & Malleable Iron Works (Inc.) (Soft), 9th & Jefferson
 Philadelphia Stove & Iron Foundry Co., 1625 N 5th
 Rehman, Theo. B., 30th and Chestnut.
 Sheppard, Isaac A. & Co., 4th & Montgomery av
 Tioga Foundry Co. (Machinery & Railroad, etc.), 22d & Allegheny av
 Union Iron Foundry, Van Horn & Sophia.
PITTSBURG—ABENDROTH & ROOT
 Mfg. Co., Diamond Bank bldg. (See adv. index, end of book)
 Best Mfg. Co., 25th and A. V. Ry.
 Fischer Foundry & Machine Co. (Light & Heavy)
 Phoenix Steel Co., Inc., Putnam & P. R. R.
MINNEAPOLIS STEEL & MACHINERY CO. (Heavy), 1007 Bessemer bldg. adv. index, end of book)
 Pittsburg Mfg. Co., 28th & Railroad.
PITTSBURG VALVE, FOUNDRY & CONSTRUCTION CO., 26th & A. V. R'y. (See adv. index, end of book)
 POTTSTOWN—Keystone Foundry Co.
 READING—Reading Foundry Co.
 Roeper-Kincaid Mfg. Co. (Machinery Castings, etc.)
 SCRANTON—Barker, S. G. & Son.
 SLATINGTON—Slatington Foundry & Machine & Boiler Works
 TATAMY—Messinger Mfg. Co.
 TYRONE—Burley Heater Co.
 WARREN—Allegheny Foundry Co. (For All Purposes)
 WEATHERLY—Weatherly Foundry & Machine Co. (Railroad, etc.)
 WILLIAMSPORT—National Foundry & Supply Co.
 WRIGHTSVILLE—Susquehanna Casting Co.
 YORK—Eyster, Weiser & Co. (Ltd.) (Light)
 Norway Iron & Steel Co.
 Penua. Foundry Co.

RHODE ISLAND.

HILLS' GROVE—Rhode Island Malleable Iron Works.
 PAWTUCKET—Pawtucket Foundry Co.
 PROVIDENCE—American Ship Windlass Co.
 Brown & Sharpe Mfg. Co. (Motor Cylinder, etc.)
 Builders' Iron Foundry (Heavy, for Water Works, Pipe Fittings, etc.)
 Colvin Foundry Co. (All kinds.)
 Franklin Machine Co. (1 oz. to 5 ton).
 RIVER POINT—Brayton L. Foundry Co.
 VALLEY FALLS—Valley Falls Iron Foundry.

TENNESSEE.

CHATTANOOGA—Herron Pump & Foundry Co.
Ross-Mechan Foundry Co.

TEXAS.

EL PASO—MINNEAPOLIS STEEL & Machinery Co. (Heavy), 505 Guaranty Trust bldg. (See adv. index, end of book)
FORT WORTH—Horrell & Eastwood.

UTAH.

SALT LAKE CITY—Allen Iron & Brass Works.
MINNEAPOLIS STEEL & Machinery Co. (Heavy), 324 Dooley blk. (See adv. index, end of book)

VIRGINIA.

LYNCHBURG—Lynchburg Foundry Co.
RICHMOND—Cameron-Tennant Machine Shops.
Carr, Jas. W. (All of Special), 319 W. Clay
Richmond Foundry & Mfg. Co. (Fine, Soft, Light, Plain or Machined)

WASHINGTON.

SEATTLE—MINNEAPOLIS STEEL & Machinery Co. (Heavy), 338 Globe bldg. (See adv. index, end of book)
SPOKANE—National Iron Works.

WISCONSIN.

CUDAHY—Power & Mining Machinery Co.
MILWAUKEE—Levalley Mfg. Co.
Milwaukee Malleable & Grey Iron Works,
Schwab, R. J. & Sons Co., 24th av
VILTER MFG. CO., 1046 Clinton,
Milwaukee, Wis. (See adv. index, end of book)
Western Malleable & Grey Iron Mfg. Co.
(Light Grey Iron & Machinery), 139 Burr-
rell
SOUTH MILWAUKEE—Stowell Mfg. & Foundry
Co.
WEST BEND—Gehl Bros. Mfg. Co. (Up to 2000
lbs.)

Castings (Gun Metal)

American Valve & Meter Co., Cincinnati, O.
Belcher Malleable Iron Co., Easton, Mass.
Best Mfg. Co., 25th & A. V. R'y, Pittsburg, Pa.
Builders' Iron Foundry, Providence, R. I.
Chapman, J. B. & Co., Springfield, Mass.
Crown Smelting Co., Chester, Pa.
Eureka Tempered Copper Works, North East,
Pa.

Fewlass, Leen Brass & Iron Co., Cincinnati, O.
Leslie Co., Inc., Lyndhurst, N. J.

LUNKENHEIMER CO., General Of-
fices, Beekman & Waverly, Cincinnati, O.
(See adv. index and branch offices, end of book)

Phila. Roll & Machine Co., S 23d & Washing-
ton av, Phila., Pa.

Poole Engineering & Machine Co., Woodberry
Station, Baltimore, Md.
Reeves, Paul S. & Son, 1413 Catharine, Phila.,
Pa.

Rowell, W. G. & Co., Bridgeport, Conn.
Shriver, T. & Co., 333 E 56th, New York
Swoop, Julian M., 913 Girod, New Orleans, La.
Van Duzen, E. W. Co., 428 E 2d, Cincinnati, O.
Vulcan Iron Works, Wilkes-Barre, Pa.
Walworth Mfg. Co., 132 Federal, Boston, Mass.
Williams, E. A. & Son, 105 Plymouth, Jersey
York Mfg. Co., York, Pa. City, N. J.

Castings (Lead)

American Tool & Machine Co., 109 Beach, Bos-
ton, Mass.
Crane, W. W. Foundry & Machine Works,
Auburn, N. Y.
Kindred & Taylor, 29 Jackson, Worcester, Mass.
Turner Brass Works, 66 Michigan, Chicago, Ill.
Wells Chemical Bronze Works, 219 Summer,
Worcester, Mass.

***Castings (Lumen Bronze)**

LUMEN BEARING CO., Buffalo, N. Y.
(See adv. index, end of book)

Castings (Machinery)

(See also Founders, Malleable Iron; also Cast-
ings, Aluminum; Castings, Brass; Castings,
Bronze; Castings, Copper; Castings, Grey

Iron; Castings, Gun Metal; Castings, Man-
ganese Bronze; Castings, Marine; Castings,
Phosphor Bronze; Castings, Semi-Steel;
Castings, Steel; Machinists & Founders.)

AMERICAN BRAKE SHOE & FOUN-
dry Co. (Iron & Steel), 170 B'way, New
York. Works & Sales Office: Chicago
Heights, Ill. (See adv. index & branch of-
fices, end of book)

DOBBIE FOUNDRY & MACHINE CO.
Main Office & Works: Niagara Falls, N. Y.
(See adv. index & branch offices, end of book)

HENRY-BONNARD BRONZE CO.
(Bronze), Sales office, 5 & 7 E 42d, Mt. Ver-
non, N. Y. (See adv. index, end of book)

MARINE ENGINE & MACHINE CO.
(100 lbs to 40,000 lbs.), Main Office, 126
Liberty, New York. Works: Harrison, N. J.
(See adv. index, end of book)

MINNEAPOLIS STEEL & MACHIN-
ery Co., Minneapolis, Minn. (See adv.
index & branch offices, end of book)

RUSSEL WHEEL & FOUNDRY CO.,
(Grey Iron), Detroit, Mich. (See adv. in-
dex, end of book)

YAGLE FOUNDRY & MACHINE CO.,
(Ltd.), 400 32d, Pittsburg, Pa. (See adv.
index, end of book)

Castings (Malleable Iron)

(See Founders, Malleable Iron)

Castings (Manganese Bronze)

Bastian, C. L. Mfg. Co., 76 Illinois, Chicago,
Ill.
Blake, Edwin J., Hartford, Conn.
Chapman, J. B. & Co., Springfield, Mass.
Clum & Atkinson, Rochester, N. Y.
Cramp, W. & Sons Ship & Engine Building Co.
(Parsons), Phila., Pa.

Crown Smelting Co., Chester, Pa.
Eynon-Evans Mfg. Co., 1509 Clearfield, Phila-
delphia, Pa.

Lehigh Valley Cornice Works, Bethlehem, Pa.
LUMEN BEARING CO., Buffalo, N. Y.
(See adv. index, end of book)

MERCHANT & EVANS CO. (Inc.), 517
Arch, Phila., Pa. (See adv. index & branch
offices, end of book)

Norwalk Brass Co., Norwalk, Conn.

Reeves, Paul S. & Son, 1413 Catharine, Phila-
delphia, Pa.

Ryan, J. J. & Co., 105 S Jefferson, Chicago, Ill.
Union Iron Works, 222 Market, San Francisco,
Cal.

Williams, E. A. & Son, 105 Plymouth, Jersey
City, N. J.

Castings (Manganese Steel)

Allen, Edgar & Co., 51 John, New York

AMERICAN BRAKE SHOE & FOUN-
dry Co., 170 B'way, New York. Works &
Sales Office, Chicago Heights, Ill. (See adv.
index & branch offices, end of book)

Blake, Edwin J., Hartford, Conn.
Brylgon Steel Casting Co. (Low Carbon for
Electrical Purposes), New Castle, Del.

Smith, Geo. H. Steel Casting Co., Milwaukee,
Wis.

Taylor Iron & Steel Co., High Bridge, N. J.

Castings (Marine)

AMERICAN BRAKE SHOE & FOUN-
dry Co., 170 B'way, New York. Works &
Sales Office, Chicago Heights, Ill. (See adv.
index & branch offices, end of book)

BETHLEHEM FOUNDRY & MACHINE
Co. (Mooring Posts, Chocks, Cleats, Davits,
Deck Sleeves, etc.), Front, South Bethlehem,
Pa., & 149 B'way, New York. (See adv.
index, end of book)

Columbia Iron Foundry Co., 55 Hudson, Jersey
City, N. J.

Cramp, Wm. & Sons Ship & Engine Building
Co., Philadelphia, Pa.

Crown Smelting Co. (Brass), Chester, Pa.
Eastwood Wire Mfg. Co. (Iron, Brass, Bronze,
etc.), Belleville, N. J.

Great Lakes Engineering Works, Detroit, Mich.
MARINE ENGINE & MACHINE CO.
(100 lbs. to 40,000 lbs.), Main Office, 126
Liberty, New York; Works, Harrison, N. J.
(See adv. index, end of book)

Norwalk Brass Co. (Brass, Bronze, Aluminum,
etc.), Norwalk, Conn.

Reeves, Paul S. & Son, 1413 Catharine, Phila-
delphia, Pa.

***Castings (Mining)**

AMERICAN BRAKE SHOE & FOUN-
dry Co., 170 B'way, New York. Works &
Sales Office, Chicago Heights, Ill. (See adv.
index & branch offices, end of book)

Castings (Nickel Steel)

AMERICAN BRAKE SHOE & FOUN-
dry Co., 170 B'way, New York. Works &
Sales Office, Chicago Heights, Ill. (See adv.
index & branch offices, end of book)

American Steel Foundries, Main Office: 42
B'way, New York, & Commercial Nat'l Bank
Eastwood Wire Mfg. Co., Belleville, N. J.
Massachusetts Steel Casting Co., Everett, Mass.
Philadelphia Steel & Iron Co., Frankford,
Phila., Pa.

Taylor Iron & Steel Co., High Bridge, N. J.

Castings (Ordnance)

AMERICAN BRAKE SHOE & FOUN-
dry Co., 170 B'way, New York. Works &
Sales Office, Chicago Heights, Ill. (See adv.
index & branch offices, end of book)

American & British Mfg. Co., Providence,
R. I., & Bridgeport, Conn.
Midvale Steel Co., Nicetown, Phila., Pa.

Castings (Parson's Bronze)

Cramp, Wm. & Sons Ship & Engine Building
Co., Philadelphia, Pa.

Morris, I. P., Co. (Up to 50 Ton), cor Beach &
Ball, Phila., Pa.

Castings (Phosphor Bronze)

American Valve & Meter Co., Cincinnati, O.
Anderson, A. H. (Light & Heavy), 52 N Ann
Chicago, Ill.

Bailey-Farrell Mfg. Co., Pittsburg, Pa.

Bastian, C. L. Mfg. Co., 76 Illinois, Chicago,
Ill.

Bay State Brass Foundry Co., 155 A st, So.
B., Boston

Belfield, H. & Co., 435 N Broad, Phila., Pa.

Best Mfg. Co., Pittsburg, Pa.

Blake, Edwin J., Hartford, Conn.

Butte Specialty & Machinery Co., Butte, Mont.

Central Brass Works, Toledo, O.

Chapman, J. B. & Co., Springfield, Mass.

Clum & Atkinson, Rochester, N. Y.

Crown Smelting Co., Chester, Pa.

Curry & Co., Danville, Pa.

Damascus Bronze Co., Allegheny, Pa.

Darling Pump & Mfg. Co., Williamsport, Pa.

Edna Smelting & Refining Co., 525 Reading rd,
Cincinnati, O.

Emory, P. P. Mfg. Co., Springfield, Mass.

Enterprise Foundry Co., Detroit, Mich.

Eureka Tempered Copper Works, North East,
Pa.

Eynon-Evans Mfg. Co., 1509 Clearfield, Phila-
delphia, Pa., & 32 B'way, New York

Fewlass, Leen Brass & Iron Co., 456 E. 2d,
Cincinnati, O.

Friese Co., 91 Main, Buffalo, N. Y.

Garratt, J. W., Brass Fdy. Co. (1/4 oz. to 5000
lbs.), 2028 Walnut, St. Louis, Mo.

Garvey Bros. ft of Sussex, Jersey City, N. J.

Great Lakes Brass Foundry, Detroit, Mich.

Hackett Bros., Detroit, Mich.

Harring-Attwood Brass Mfg. Co. (Heavy), Grand
Rapids, Mich.

Higgins & Co., Holyoke, Mass.

Hoban Brass Foundry Co., 44 Wyandot, Day-
ton, O.

Holton & Weatherwax Co., Ltd., Jackson, Mich.

Hoyt, Frank, Muskegon Heights, Mich.

Johnson Service Co., Milwaukee, Wis.

Krisher, P. A., Akron, O.

Kronse, Geo. (Heavy), Jersey City, N. J.

Langsenkamp Bros. Brass Works, Indianapolis,
Ind.

Leffel, Jas. & Co., Springfield, O.

Lehigh Valley Cornice Works, Bethlehem, Pa.

Leslie Co., Inc., Lyndhurst, N. J.

LUNKENHEIMER CO., General Of-
fices & Works, Beekman & Waverly, Cin-
cinnati, O. (See adv. index & branch of-
fices, end of book)

LUMEN BEARING CO., Buffalo, N. Y.
(See adv. index, end of book)

McCartney, Josiah, Bay City, Mich.

McHatton Smelting Co., 1500 Wash'n av, Phila-
delphia, Pa.

MERCHANT & EVANS CO. (Inc.), 517
Arch, Phila., Pa. (See adv. index & branch
offices, end of book)

Mansfield Tempered Copper Co., Mansfield, O.

Messmer, Ferd Mfg. Co., St. Louis, Mo.

Milwaukee Ornamental Metallic Mfg. Co., 316 Lake
Minneapolis Brass & Iron Mfg. Co., Minneapolis, Minn.
 Moore, D. M., Portland, Ore.
 Newell, Fred. E., Central Falls, R. I.
 Norwalk Brass Co., Norwalk, Conn.
 Ohio Brass Co., Mansfield, O.
 Phosphor Bronze Smelting Co., 2200 Wash's av., Philadelphia, Pa.
 Pioneer Brass Works, Indianapolis, Ind.
 Pittsburgh Brass Mfg. Co., Penn av & 32d, Pittsburgh, Pa.
PITTSBURG VALVE, FOUNDRY & CONSTRUCTION CO., 26th & A. V. Ry., Pittsburgh, Pa. (See adv. index, end of book)
 Reeves, Paul S. & Son, 1413 Catharine, Phila., Pa.
 Richardson, Edro, 316 N Holliday, Baltimore, Md.
 Riverside Metal Co., Riverside, N. J.
 Rowell, W. G., Bridgeport, Conn.
 St. Paul Foundry Co., St. Paul, Minn.
 Tumme Copper & Bronze Co., Cleveland, O.
 Union Brass Foundry Co., Lowell, Mass.
 United Engineering & Foundry Co. (All Weights), Farmers' Bank bldg, Pittsburgh, Pa.
 U. S. Bronze Co., 149 Columbus, Cleveland, O.
 Ward, Williams & Cruse Co., Hancock, Mich.
 Watson, Frye & Co., Bath, Me.
 Williams, E. A. & Son, 105 Plymouth, Jersey City, N. J.

*Castings (Railroad)

See also Founders, Malleable Iron;
 Castings, Aluminum;
 Castings, Brass;
 Castings, Bronze;
 Castings, Copper;
 Castings, Grey Iron;
 Castings, Gun Metal;
 Castings, Phosphor Bronze;
 Castings, Steel;
 Machinists & Founders.

AMERICAN BRAKE SHOE & FOUNDRY CO. (Iron & Steel Car & Locomotive, etc.), 170 B'way, New York. Works & Sales Office: Chicago Heights, Ill. (See adv. index, end of book)
MINNEAPOLIS STEEL & MACHINERY CO., Minneapolis, Minn. (See adv. index, end of book)
RUSSEL WHEEL & FOUNDRY CO. Detroit, Mich. (See adv. index, end of book)
ST. PAUL FOUNDRY CO., Corns av & Topping, St. Paul, Minn. (See adv. index, end of book)

Castings (Rock Crusher)

AMERICAN BRAKE SHOE & FOUNDRY CO., 170 B'way, New York. Works & Sales Office, Chicago Heights, Ill. (See adv. index & branch offices, end of book)
BETHLEHEM FOUNDRY & MACHINE CO., Front, South Bethlehem, Pa. & 149 B'way, New York (See adv. index, end of book)
 Chester Steel Castings Co., Chester, Pa.
 Eastwood Wire Mfg. Co., Belleville, N. J.
 Green's Car Wheel Mfg. Co. (Chilled), St. Louis, Mo.
 Power & Mining Machinery Co., 52 William, New York. Works, Cudahy, Wis.
 Phila. Roll & Machine Co., S 23d & Wash'n av., Phila., Pa.
 Steele & Condict (Inc.) (also for Elevators & Screens), 70 Pearl, Jersey City, N. J.
 Taylor Iron & Steel Co., High Bridge, N. J.
YAGLE FOUNDRY & MACHINE CO. (for Blake Crushers), 400 32d, Pittsburg, Pa. (See adv. index, end of book)

Castings (Rolling Mill & Furnace)

(This List is Duplicated under Head of "Machinists & Founders.")
 (See also Machinery, Rolling Mill; also Rolls, Sand & Chilled)
AMERICAN BRAKE SHOE & FOUNDRY CO., 170 B'way, New York. Works & Sales Office, Chicago Heights, Ill. (See adv. index & branch offices, end of book)
 American Foundry & Construction Co., 4716 2d av., Pittsburg, Pa.
 Bethlehem Steel Co., South Bethlehem, Pa., & 100 B'way, New York
 Braddock Machine & Mfg. Co., Braddock, Pa.
 Canton Roll & Machine Co., Canton, O.
 Cooper, C. & G. Co., Mt. Vernon, O.
 Davenport Foundry & Machine Co., Davenport, Iowa
 Fischer Foundry & Machine Co., Pittsburg, Pa.
 Garrison, A. Foundry Co., Pittsburg, Pa.

Hogg, Geo. A. Iron & Steel Foundry Co., Pittsburgh, Pa.
 Hyde Park Foundry & Machine Co., Hyde Park, Pa.
 Lebanon Valley Iron Co., Lebanon, Pa.
 Lewis Foundry & Machine Co., 1001 Bingham, Pittsburg, Pa.
 Mackintosh, Hemphill & Co., ft 12th, Pittsburgh, Pa.
 Mahoning Foundry & Machine Co., Youngstown, O.
 Marshall Foundry, 28th & R.R., Pittsburgh, Pa.
 Massillon Iron & Steel Co., Massillon, O., & The Rookery, Chicago, Ill.
 Mesta Machine Co., Pittsburg, Pa.
 National Electric Co., Milwaukee, Wis.
 National Gear Wheel & Foundry Co., South av & Walker, Allegheny, Pa.
 Newbold, R. S. & Son Co. (Heavy), Norristown, Pa.
 Ohio Machine Co., Middleport, O.
 Penn Engineering Works, New Castle, Pa.
 Phila. Roll & Machine Co., S 23d & Wash'n av., Phila., Pa.
 Power & Mining Machinery Co., 52 William, New York. Works, Cudahy, Wis.
 Reading Iron Co., Reading, Pa.
 Riverside Foundry Co., Cleveland, O.
 Rosedale Foundry & Machine Co., Allegheny, Pa.
 Sharon Foundry Co., Wheatland, O.
 Spicer Mfg. Co., New Philadelphia, O.
 Sterritt, Thomas Foundry Co., 32d & Smallman, Pittsburgh, Pa.
 United Engineering & Foundry Co., Pittsburgh, Pa.
 Valley Iron Works, Williamsport, Pa.
 Velte Foundry & Machine Co., Home & A. V. R. R., Pittsburg, Pa.
 Vulcan Foundry & Machine Co., New Castle, Pa.
 Welmer Machine Works Co., Lebanon, Pa.
 West Penn Foundry & Machine Co., Avonmore, Pa.
 Wheeling Mold & Foundry Co., Wheeling, W. Va.
YAGLE FOUNDRY & MACHINE CO. (Ltd.), (Runners, Fountains, Sprue Plates, etc.), 400 32d, Pittsburg, Pa. (See adv. index, end of book)
 Youngstown Engineering Co., Youngstown, O.
 Youngstown Foundry & Machine Co., Youngstown, O.

Castings (Semi-Steel)

Allegheny Foundry Co., Warren, Pa.
 American Sheet & Tin Plate Co., Roll & Machine Works, Canton, O.
 Best Mfg. Co., 25th & A. V. R'y, Pittsburg, Pa.
BETHLEHEM FOUNDRY & MACHINE CO., Front, South Bethlehem, Pa. & 149 B'way, New York (See adv. index, end of book)
 Birdsboro Steel Foundry & Machine Co., Birdsboro, Pa.
 Birmingham Iron Foundry (Heavy), Derby, Conn.
 Brady, Jas. A. Foundry Co., 2842 Archer av., Chicago, O.
 Buckeye Steel Castings Co., Columbus, O.
 Buffalo Foundry Co., Buffalo, N. Y.
 Chase Mfg. Co., Waterbury, Conn.
 Columbia Engineering Works, Portland, Ore.
 Farrel Foundry & Machine Co. (Heavy), Ansonia, Conn.
 Featherstone Foundry & Machine Co., 348 N. Halsted, Chicago, Ill.
 Flagg, Stanley G. Co., 424 N 19th, Phila., Pa.
 Francis & Nygren Foundry Co. (for Ammonia Castings, Smelting & Acid Kettles, Gears, etc.), Chicago, Ill.
 Lake Erie Engineering Works (Heavy, Rough & Machined), Buffalo, N. Y.
 Malleable Iron Fittings Co. (Homogenous Metal), Branford, Conn.
 Shriver, T. & Co., 333 E. 56th, N. Y.
 Treadwell, M. H. & Co. (10 to 50,000 lbs), 90 West, New York; Works, Lebanon, Pa.
 Wilmington Malleable Iron Co., Wilmington, Del.

Castings (Sewer)

(See Manhole Covers; also Sewer Inlet Mfrs.)

*Castings (Sidewalk & Vault Light)

CANTON FOUNDRY & MACHINE CO., (Illuminating), Canton, O. (See adv. index, end of book)
 United States Foundry & Sales Co., S. Norwalk, Conn.

Castings (Smelting Work)

Moore Bros. Co., Elizabeth, N. J.

Castings (Steam Fitters')

(See Fittings, Various Kinds)

Castings (Steel)

(This List is Duplicated under Head of Machinists & Founders)

ALABAMA.

BIRMINGHAM—Tennessee Coal, Iron & R. R. Co.

CALIFORNIA.

SAN FRANCISCO—Midvale Steel Co., 220 Market, Works: Phila., Pa.
 Pacific Jupiter Steel Co.
 Pacific Rolling Mill Co., 519 Mission
 Union Iron Works, 222 Market

COLORADO.

DENVER—Colorado Fuel & Iron Co.
 PUEBLO—American Smelting & Refining Co.

CONNECTICUT.

BRANFORD—Malleable Iron Fittings Co. (Homogeneous Metal)
 BRIDGEPORT—Farist Steel Co.
 NEW HAVEN—Crucible Steel Co. of America
 National Steel Foundry Co. (Open Hearth)

DELAWARE.

NEW CASTLE—Baldt Steel Co. (Open Hearth, up to 50 tons each)
 Brylgon Steel Casting Co. (Semi-Steel)
 WILMINGTON—Wilmington Malleable Iron Co. (Semi-Steel)

ILLINOIS.

CARPENTERSVILLE—Star Mfg. Co. (Plow Shapes & Specialties)
 CHICAGO—**AMERICAN BRAKE SHOE & FOUNDRY CO.** (See adv. on following page)
 Chester Steel Castings Co., 145 La Salle; Works, Chester, Pa.
 Gould Coupler Co., The Rookery, Chicago, Ill. Works, Depew, N. Y.
 Latrobe Steel & Coupler Co., Old Colony bldg. Works, Melrose Park, Ill., & Latrobe, Pa.
 Midvale Steel Co. (for Gun Carriages, Mounts, etc., & Armour Piercing Shot & Shell), 161 S Jefferson; Works, Philadelphia, Pa.
 National Car Coupler Co. (Open Hearth), Monadnock blk. Works, Converse, Ind.
 Smith, Geo. H., Steel Casting Co., 40 Dearborn
 Western Steel Car & Foundry Co., Old Colony bldg
 CHICAGO HEIGHTS—**AMERICAN BRAKE SHOE & FOUNDRY CO.** (See adv. opp. page)
 King & Andrews Co. (Small), Chicago Heights
 EAST ST. LOUIS—American Steel Foundries (Open Hearth up to any Weight)
 GRANITE—American Steel Foundries (Open Hearth up to any Weight)
 Commonwealth Steel Co. Office, St. Louis, Mo.
 MELROSE PARK—Latrobe Steel & Coupler Co.

INDIANA.

CONVERSE—National Car Coupler Co.
 EVANSVILLE—Evansville Tool Works
 INDIANA HARBOR—Inland Steel Co. (Open Hearth up to any Weight)
 FORT WAYNE—Fort Wayne Iron & Steel Co.
 MATTHEWS—Electric Steel Casting Co.
 MONTPELIER—National Steel Castings Co. (Open Hearth)
 MUNCIE—Whiteley Steel Co. (High-Grade Small)

IOWA.

DES MOINES—Des Moines Bridge & Iron Works
 LONE TREE—Monarch Grubber Mfg. Co.

LOUISIANA.

NEW ORLEANS—Bedell Structural Steel & Foundry Co.

MARYLAND.

BALTIMORE—Baltimore Malleable Iron & Steel Casting Co. (Tough), Charles c Wells Maryland Steel Co., Sparrows Point

MASSACHUSETTS.

BOSTON—Livermore, Homer F., 85 Pearl National Steel Foundry Co., 18 P. O. Square Pennsylvania Steel Co., 70 Kilby. Works: Steelton, Pa.

Tremont Nail Co. (Bessemer), 70 Kilby
EASTON—Belcher Malleable Iron Co.
EVERETT—Massachusetts Steel Casting Co. (1 to 60,000 lbs, Open Hearth & "Tropenas")
HYDE PARK—New England Steel Casting Co.
MILLBURY—Worcester Steel Foundry Co.
WEST WAREHAM—Tremont Nail Co. (Bessemer)
WORCESTER—Arcade Malleable Iron Co. (All Worcester Malleable Iron Works Kinds)

MICHIGAN.

ADRIAN—Adrian Steel Casting Co.
DETROIT—Detroit Rivet Iron Works, 665 Atwater, E.
 Detroit Steel Castings Co. (Car, Locomotive, etc., Converter & Open Hearth), 1243 Michigan av
 Monarch Steel Castings Co., Solvay av & M. C. R. R.
 Western Malleable Steel Co.

MISSOURI.

ST. LOUIS—American Steel Foundries (Open Hearth, up to any Weight), Friso bldg
 Commonwealth Steel Co. (Open Hearth), Bank of Commerce bldg. Works, Granite City, Ill.
 Gonld Coupler Co, 420 Olive. Works, Depew, N. Y.
 Jones & Langhlins Steel Co., 420 Olive
 Scullin-Gallagher Iron & Steel Co. (Open Hearth, up to 60,000 pounds), Kraft st & Manchester av

NEW JERSEY.

BLOOMFIELD—Essex Steel Works.
CHROME—Chrome Steel Works ("Crucible & Open Hearth)
HIGH BRIDGE—Taylor Iron & Steel Co.
HOBOKEN—New York Switch & Crossing Co.
MAHWAH—**AMERICAN BRAKE SHOE** & Foundry Co. (See adv. below)
NEWARK—Atha, Benjamin & Co. (Machine Moulded, 10 to 500 lbs.)
 Atha Steel Casting Co.
 Riverside Foundry
RAHWAY—New Jersey Steel Co.

NEW YORK.

BUFFALO—Acme Steel & Malleable Iron Works
 Buffalo Crucible Castings Co. (Small Crucible), 25 Washington
 Pratt & Letchworth Co., 189 Tonawanda
DEPEW—Gould Coupler Co.

NEW YORK CITY.**Boroughs of Manhattan & Bronx**

NEW YORK—**AMERICAN BRAKE** Shoe & Foundry Co., 170 B'way. See adv. below)
 American Steel Foundries (Open Hearth up to any Weight), 42 B'way
 Bethlehem Steel Co., 100 B'way. Works, South Bethlehem, Pa.
 Columbia Steel Casting Co., 39 Cortlandt
 Flagg, Stanley G. & Co., 220 B'way. Works, Phila., Pa.
 Gonld Coupler Co., 1 W 34th. Works, Depew, N. Y.
 Johnson, Isaac G. & Co., Spnyten Duyvil
 Midvale Steel Co. (for Gun Carriages, Monnts, etc., & Armour Piercing Shot & Shell), 111 B'way; Works: Phila., Pa.
 National Conduit & Cable Co., 41 Park row
 Otis Steel Co., 97 Cedar. Works: Clev'd, O.
 Pennsylvania Steel Co., 71 B'way. Main office & Works, Steelton, Pa.
 Treadwell, M. H. & Co., 90 West. Works: Lebanon, Pa.

(END OF NEW YORK CITY.)

SYRACUSE—Frazer & Jones Co. (Saddlery & Small)

OHIO.

AKRON—**WELLMAN-SEAEVER-MORGAN** Co. (See adv. index, end of book)
ALLIANCE—American Steel Foundries (Open Hearth up to any Weight)
CINCINNATI—Steel Foundry Co., Spring Grove United Steel Co. av
CLEVELAND—Cleveland Steel Casting Co. (Open Hearth, Heavy)
 Gerlach, Peter Co. (Crucible)
 Macbeth Iron Co., Winslow & Center, Clevel. land, O.
 Otis Steel Co. (100 to 100,000 lbs.), Lakeside av, 2 E. 33d, N. B.
WELLMAN-SEAEVER-MORGAN CO. (See adv. index, end of book)
COLUMBUS—Bonney-Floyd Co. (Tropenas & Crucible, Medium & Small)
 Buckeye Steel Castings Co. (Iron, Steel & Semi-Steel)
DAYTON—Joyce-Cridland Co., 329 S. Linden av.
LORAIN—Lorain Boiler Works
MIDDLETOWN—**AMERICAN ROLLING** Mill Co. (Heavy Basic, Open Hearth) (See adv. index, end of book)
MOUNT VERNON—Cooper, C. & G. Co.
NEWARK—Scheidler Machine Works Co., The
PORTSMOUTH—Portsmouth Steel Co.
YOUNGSTOWN—United Engineering & Foundry Co. (All Weights)
 Yonngstown Foundry & Machine Co. (Open Hearth, 1 lb to 100,000 lbs Rough or Machined)

PENNSYLVANIA.

BIRDSBORO—Birdsboro Steel Foundry & Machine Co. (Open Hearth)
BRADDOCK—Carnegie Steel Co.
 Sterling Steel Foundry Co.
BURNHAM—Standard Steel Works (Locomotive)
CHESTER—American Steel Foundries (Open Hearth up to any Weight)
 Chester Steel Castings Co. (Open Hearth up to 60,000 pounds)
 Delaware River Iron Shipbuilding & Engine Works
 Federal Steel Foundry Co. (Open Hearth, any size), Chester, Pa.
 Johnston Railroad Frog & Switch Co.

STEEL CASTINGS

OF ALL KINDS, FROM

Manganese Steel

High Carbon Steel

Ordinary Machinery Steel

Dynamo Steel

WILL BE PLEASED TO QUOTE PRICE ON RECEIPT OF NECESSARY DATA

AMERICAN BRAKE SHOE AND FOUNDRY COMPANY

MAHWAH, NEW JERSEY.

Works and Sales Office: Chicago Heights, Ill.

THE KINNEAR

STAMPED STEEL CEILING WAINSCOTING ETC.
LOCK-JOINT CONSTRUCTION

DESCRIPTIVE CATALOGUE OR BOOKLET E, FURNISHED UPON REQUEST

THE KINNEAR & GAGER CO., MANUFACTURERS

BOSTON, 125 Broad St.

COLUMBUS, OHIO

Penn Steel Casting & Machine Co. (Open Hearth, 40 to 80,000 pounds)
Seaboard Steel Casting Co. (Open Hearth, up to 80,000 pounds)
Solid Steel Casting Co. (R. R. & Machine)
CORAOPOLS—Duquesne Steel Foundry Co.
CORY—McInnes Steel Co. (Tool Steel)
ERIE—National Foundry Co.
FORD CITY—Fisher Foundry & Machine Co. (Converter Process)
FRANKLIN—American Steel Foundries (Open Hearth, up to any Weight)
GLASSPORT—Pittsburg Steel Foundry (Up to 60,000 lbs.)
JOHNSTOWN—Cambria Steel Co. Main Office, Phila., Pa.
LANCASTER—Carlton Steel Castings Co. (Annealed)
LANSDALE—Heebner & Sons
McKEES ROCKS—Pennsylvania Malleable Iron Co. (Small & Large R. R. Castings)
NAZARETH—Nazareth Foundry & Machine Co.
PHILADELPHIA—American Nickel Steel Co., Bullitt bldg
American Pressed Steel Co., Arcade bldg
Cambria Steel Co., Arcade bldg
Chester Steel Castings Co. (Open Hearth up to 60,000 pounds)
Devlin, Thos. Mfg. Co., 3d & Lehigh av
Fisher Foundry & Machine Co. (Converter Process)
Flagg, Stanley G. & Co. (½ oz. to 500 pounds), 424 N 19th
Latrobe Steel & Coupler Co., Girard bldg.
Midvale Steel Co. (for Gun Carriage, Mounts, etc., & Armour Piercing Shot & Shell), Nicetown
Philadelphia Hardware & Malleable Iron Works (Inc.) (Light), 9th & Jefferson
Pennsylvania Steel Company, Girard bldg
Philadelphia Steel & Iron Co. (Atlas Steel), Fkd
Standard Steel Works (Locomotive), Harrison bldg
Wharton, Wm., Jr. & Co. (Inc.), (also Iron), 25th & Washington av
PITTSBURG—American Steel Foundries (Open Hearth, to any weight), Frick bldg.
Avonmore Cast Steel Co. (Converter Process, Light and Medium Weight)
Duquesne Steel Foundry Co., Arrott bldg.
General Steel Casting Co.
Hogg, Geo. A., Iron & Steel Foundry Co., 24th & A. V. R'y
Jones & Laughlin Steel Co., 3d av & Try
Mackintosh, Hemphill & Co., ft of 12th
McConway & Torley Co. (Open Hearth), 48th & A. V. R. R.
Mesta Machine Co., Lewis blk
Pennsylvania Malleable Iron Co. (Small & Large R. R. Castings), McKees Rocks, Pa.
Pittsburg Steel Foundry (up to 60,000 pounds)
Ritter-Conley Mfg. Co. (Open Hearth Furnace), 56 Water
Sterling Steel Foundry Co. (Open Hearth), Frick bldg.
Union Steel Casting Co., 61st & A. V. R. R.
United Engineering & Foundry Co. (All Weights), Farmers' Bank bldg.
Velte Foundry & Machine Co., Home & A. V. R. R.
READING—Reading Steel Co.
SHARON—American Steel Foundries (Open Hearth, up to any weight)

National Malleable Casting Co. (Open Hearth, R. R. Castings & Motor Gear Blanks)
Sharon Foundry Co. (Acid, Open Hearth)
SOUTH BETHLEHEM—Bethlehem Steel Co.
STEELTON—Pennsylvania Steel Co.
VERONA—General Castings Co.
WILKES-BARRE—Vulcan Iron Works.
YORK—Norway Iron & Steel Co. (Direct Open Hearth, all kinds to 500 lbs.)

RHODE ISLAND.

PROVIDENCE—Providence Steel Casting Co. Tower, James H.

WEST VIRGINIA.

PADEN CITY—Ohio Valley Steel & Foundry Co. (Open Hearth)
WHEELING—Portsmouth Steel Co.; Works, Portsmouth, O.

WISCONSIN.

MILWAUKEE—Bay View Steel Castings Co., 132 S. Bay
Crucible Steel Castings Co. (to 1200 pounds), 618 Clinton
Dutcher, J. A. & P. E. Co. (also Wrought Steel), Kinnikinnic av
Falk Co. (Open Hearth), ft 30th
Gerlinger Steel Casting Co., Milwaukee, Wis.
Levalley Mfg. Co.
Milwaukee Steel Foundry Co., S. Water and Virginia
Nordman-Duffke Foundry Co., ft. 30th.
Prime Steel Co. (Crucible), Milwaukee, Wis.
Smith, Geo. H. Steel Casting Co. (Specialty Dynamo & Motor Steel, etc.), 500 Clinton.

*Castings (Steel Dredge)

AMERICAN BRAKE SHOE & FOUNDRY Co., 170 B'way, New York. Works & Sales Office: Chicago Heights, Ill. (See adv. on preceding page; branch offices, end of book)

Castings (Stone Crusher)

(See Castings, Rock Crusher.)

*Castings (Sugar House)

AMERICAN BRAKE SHOE & FOUNDRY Co., 170 B'way, New York. Works & Sales Office: Chicago Heights, Ill. (See adv. on preceding page; branch offices, end of book)

Castings (Tempered Copper, for Commutator Bars)

Eureka Tempered Copper Co., North East, Pa.
Mansfield Tempered Copper Co., Mansfield, O.

*Castings (Tropenas Steel)

AMERICAN BRAKE SHOE & FOUNDRY Co., 170 B'way, New York. Works & Sales Office: Chicago Heights, Ill. (See adv. on preceding page; branch offices, end of book)

Castings (Vacuum Pan)

Allentown Foundry & Machine Works, Allentown, Pa.

Castings (Veeder Metal)

Veeder Mfg. Co. (for Small Gears, Pinions, Counter Wheels for Voting Machines, Cash Registers, etc.), Hartford, Conn.

Castings (Water Works)

(Sec Cast Iron Pipe Mfrs., Gas & Water; also Valves, Gate, for Water Mains; also Sewer Manhole Covers; also Fittings, Water Works)

Castings (White Metal)

Baneroff & Co., Drexel Bldg., Philadelphia, Pa.
Capital Brass Works, Detroit, Mich.
Donovan, P. J., Brass Foundry Co., Bridgeport, Conn.

Franklin, H. H., Mfg. Co., Syracuse, N. Y.
Hackett Bros., Detroit, Mich.
Legler, Grimes & Elderman, Dayton, O.
Hardoin, N., Detroit, Mich.
Ohio Brass Co., Mansfield, Ohio.
Pevey Bros., Lowell, Mass.
Pleuger & Henger Mfg. Co., St. Louis, Mo.
Reeves, Paul S. & Son, 1415 S. Catharine, Philadelphia, Pa.
Riverside Metal Co., Riverside, N. J.
Vanduzen, E. W. Co., Cincinnati, Ohio.
Veeder Mfg. Co., Hartford, Conn.

Castings (Zinc)

Anderson, A. H., 52 N Ann, Chicago, Ill.
Gerock Bros. Mfg. Co., 1252 Manchester av, St. Louis, Mo.
Hauck Mfg. Co. (Art Castings, etc.), 322 W Pearl, Cincinnati, O.
Van Duzen, E. W. Co., 428 E 2d, Cincinnati, O.

Catch Basins & Covers

(See Basins, Catch; also Sewer Inlets)

Catchers (Grass)

F. & N. Lawn Mower Co. ("F. & N."), Richmond, Ind.
Supplee Hardware Co. ("Braun" Penna. Golf), 503 Market, Phila., Pa.

Catchers (Mail)

Columbian Mail Crane Co. ("Columbian" Steel), 898 Factory, Columbus, O.
Taylor & Bogges Foundry Co., Cleveland, O.

Catchers & Retrievers (Trolley)

Earl, Chas. L. ("Earl"), 76 William, New York
Johnson & Morton, Utica, N. Y.
Ridlon, Frank Co., 200 Summer, Boston, Mass.
Stearns, E. O. & Co. (Milloy), Syracuse, N. Y.
Trolley Supply Co. ("American" & "Knutson"), Canton, O.
Wilson & Co., 439 Front, Brooklyn, N. Y.
Wilson Trolley Catcher Co. ("Wilson"), 246 Summer, Boston, Mass.

THE EDWARDS METAL CEILINGS

Metal Shingles, Metal Windows, Cornices, Skylights,
Roof Gutters, Corrugated Iron and Steel Roofing,
Steel Imitation Brick and Stone Siding.

Manufacturers of the Most Extensive Line of Sheet Metal Building Material in the World

The Edwards Manufacturing Co.

"THE SHEET METAL FOLKS"

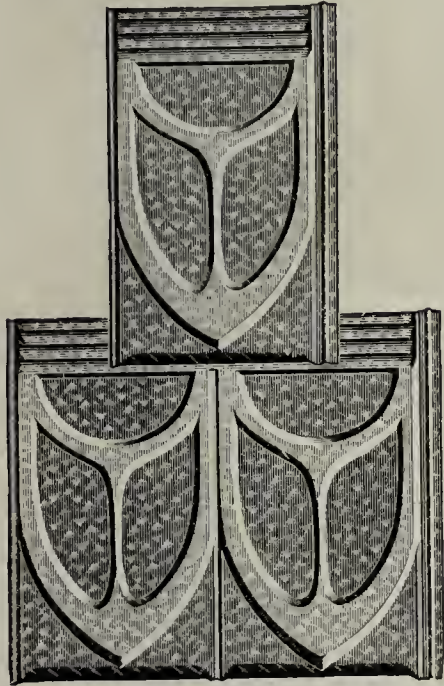
MAIN OFFICE AND WORKS

545 to 565 EGGLESTON AVE.

CINCINNATI, OHIO

ELLER'S QUALITY METAL CEILINGS

make finest decorative effects and are so easy to erect that anyone can do it. The joints fit; the stamping is clean and clear, and the metal heavy; it holds its shape.



"CHAMPION" LOCK JOINT SHINGLES

The Best and Most Artistic
on the Market.

WE MAKE

Cornice — Skylights — Finials — Crestings — Fireproof
Window Frames — Trough and Pipe Tin Plate Roofing



The Eller Manufacturing Co.

CANTON, OHIO, U. S. A.



"Canton" Metal Art Plates

because of their perfect construction and straight alignment, makes them the easiest to erect, and are the cheapest and best appearing Metal Ceilings. Will not crack, burn, peel or fall off, and once in place, very little expense required to keep in condition. Let us tell you about them. Our book "Art in Metal Ceilings," free on request.

The Canton Art Metal Co., Canton, O.

New York Branch, 525 W. 23d St. Minneapolis Branch, 253 2d Ave., South

I. S. R. & C. Co.'s

❖ STEEL CEILINGS ❖

The ease with which our ceilings are erected, the perfect fit of all plates, moulds, miters, etc., makes it possible for any mechanic with but ordinary ability to erect them satisfactorily and rapidly.

We use the best of material throughout in the manufacture of our ceilings, and the designs we carry, for rich, neat effects, are without a superior in the market. Let us send catalogue and quote prices. WE pay freight to any point.

INDIANAPOLIS STEEL ROOFING & CORRUGATING COMPANY,
INDIANAPOLIS, IND.

Hendricks' Commercial Register

IS USED FOR



PURCHASING
PURPOSES



BY A GREATER VARIETY OF INDUSTRIES
THAN ANY OTHER PUBLICATION ISSUED



EACH succeeding Edition of HENDRICKS' COMMERCIAL REGISTER is an improvement on the previous one.

This book is used for purchasing purposes and for quick reference by nearly all the leading Architects, Engineers, Contractors, Purchasing Agents, Railroads, Machinists and Founders, Rolling Mills and Steel Manufacturers, Textile Mills, Lumber Manufacturers, Supply Houses in all lines, Exporters, Large Corporations and Firms in all lines, also by the National Government as well as by State and Municipal Governments in all parts of the country. It contains also many Valuable Mailing Lists, Etc.

REVISED AND PUBLISHED ANNUALLY.

ART METAL CEILINGS.

FRIEDLEY-VOSHARDT CO.

INC.

194-204 MATHER STREET (Near Halsted), CHICAGO, ILL.

MANUFACTURERS OF

Sheet Metal, Zinc and Copper

Architectural Ornaments,

Statuary, Steel Ceilings, Etc.

Catches (Cupboard)

Brass Goods Mfg. Co., Nevin, cor. Union, Brooklyn, N. Y.
 Champion Safety Lock Co., Geneva, O.
 Gaynor & Mitchell Mfg. Co., Bridgeport, Conn.
 Hunt, Helm, Ferris & Co. ("Star" Cupboard, Screen Door, etc.), Harvard, Ill.
 Mallory, Wheeler Co., New Haven, Conn.
 Reading Hardware Co., Reading, Pa.
 Russell & Erwin Mfg. Co., 43 Chambers, New York
 Sargent & Co., New Haven, Conn.
 Shelby Spring Hinge Co. (Steel, Brass & Bronze, Polished), Shelby, O.

Catches (Door)

Automatic Door-Catch Co., 218 E 57th, Chicago, Ill.
 Brainerd Mfg. Co., Despatch, N. Y.
 Cheney, S. & Son (Barn), Manlius, N. Y.
 Gaynor & Mitchell Mfg. Co., Bridgeport, Conn.
 Grand Rapids Brass Co., Grand Rapids, Mich.
 Peck, Stow & Wilcox Co., 27 Murray, New York
 Reading Hardware Co. (Barn), Reading, Pa.
 Scofield & Co., Freeport, Ill.
 Watrous Mfg. Co. (Automatic), Des Moines, Ia.
 Williams, A. C., Ravenna, O.
 Yale & Towne Mfg. Co., Stamford, Conn.

Catches (End Gate)

Sovercign, C. E. Co., Rockford, Ill.

Catches (Transom)

Champion Safety Lock Co., Geneva, O.
 Peck, Stow & Wilcox, 27 Murray, New York
 Reading Hardware Co., Reading, Pa.
 Russell & Erwin Mfg. Co., 43 Chambers, New York
 Yale & Towne Mfg. Co., Stamford, Conn.

Caustic Soda

Acker Process Co., Niagara Falls, N. Y.
 American Chemical Co., 640 Carr, Cincinnati, O.
 Columbia Chemical Co., Frick Bldg., Pittsburgh, Pa., & Barborton, O.
 General Chemical Co., 25 Broad, New York
 Penna Salt Mfg. Co., 115 Chestnut, Phila., Pa.
 Roessler & Hasslacher Chemical Co., 100 William, New York
 Solvay Process Co., Syracuse, N. Y., & Detroit, Mich.
 Tennant & Sons Co. (Importers), 76 William, New York
 Thomsen Chemical Co., Race & Winder, Baltimore, Md.
 Wing & Evans, 22 William, New York

Ceilings (Corrugated Steel)

(See Ceilings, Sheet-Steel; also Iron & Steel Corrugated Mfrs.)

Ceilings ("Gypsite" Tile)

Detroit Fireproofing Tile Co. (Suspended from Wood Joist or "I" Beams), 250 Beecher av, Detroit, Mich.

Ceilings (Marbleized Glass)

Denzi & Phillips, 24 Dey, New York
 Federal Tiling & Mantel Co. (Glass), 131 W. 24th, New York
 Manhattan Glass Tile Co. (Glass Tile), 1 Madison av, New York
 Mansfield & Co., 158 Chambers, New York

*Ceilings (Ornamental Steel)

INDIANAPOLIS STEEL ROOFING & Corrugating Co., Indianapolis, Ind. (See adv. index, end of book)

Ceilings (Sheet Steel)

Acme Metal Ceiling Co., 54 E 110th, New York
 Acme Sheet Metal Co., Martins Ferry, O.
 American Metal Ceiling Co., 215 Montague, Brooklyn, N. Y.
 AMERICAN ROLLING MILL CO., Middletown, O. (See adv. index, end of book)
 BERGER MFG. CO., Main Office & Works, Canton, O. (See adv. index and branch offices, end of book)
 Brooklyn Metal Ceiling Co., 283 Greene av, Brooklyn, N. Y.
 Cambridge Roofing Co., Cambridge, O.
 CANTON ART METAL CO., Canton, O. (See adv. index, end of book)
 Dickelman Mfg. Co., Forest, O.
 EDWARDS MFG. CO., Eggleston av, 4th & 5th, Cincinnati, O. (See adv. on preceding page; branch offices, end of book)
 ELLER MFG. CO., Canton, O. (See adv. index, end of book)
 FRIEDLEY-VOSHARDT CO. (Inc.), 194 Mather, Chicago, Ill. (See adv. top of page)
 Iron City Metal Ceiling Co., 2412 Penn. av, Pittsburgh, Pa.
 Kanneberg Roofing & Ceiling Co., Canton, O.
 Keighley, S. Metal Ceiling & Mfg. Co., 824 Locust, Pittsburgh, Pa.
 KINNEAR & GAGER CO., Columbus, O.; Eastern Office & Warehouse, 125 Broad, Boston, Mass. (See adv. preceding page)
 Machwirth Bros. Co., 201 Oak, Buffalo, N. Y.
 Mills, C. C., 41 W. 24th, New York, N. Y.
 MILWAUKEE ARTISTIC METAL Ceiling Co., Milwaukee, Wis.
 NEW YORK METAL CEILING CO., 537-541 W 24th, New York. (See adv. below)
 Norman, W. F., Sheet Metal Mfg. Co., Nevada, Mo.
 Northrop, Coburn & Dodge Co., 40 Cherry, New York
 Penn Metal Ceiling & Roofing Co. (Ltd.), 233 & Hamilton, Phila., Pa., & 559 Atlantic av, Boston, Mass.
 St. Paul Roofing, Cornice & Ornament Co., St. Paul, Minn.
 SCAIFE, WM. B. & SONS CO., 221 1st av, Pittsburgh, Pa. (See adv. index, end of book)
 Sheet Metal Mfg. Co., Niles, O.
 Souther, E. E. Iron Co., 2206 N 2d, St. Louis.
 Steel Roofing & Stamping Works (W. F. Hansen, Prop.), Des Moines, Ia.
 Sykes Steel Roofing Co., 112 W. 19th pl., Chicago, Ill.
 Tiffin Art Metal Co., Tiffin, O.
 Vinton Steel Works Co., Vinton, Ia.
 Warren Steel Co., Warren, Ill.
 Wheeling Corrugating Co., Wheeling, W. Va.
 Willis Mfg. Co., Galesburg, Ill.

Cellar Drainers (Automatic)

Braender, Philip, 143 W 125th, New York
 D'Este, Julian Co., 24 Canal, Boston, Mass.
 Erwin & Co., 56 Dearborn, Chicago, Ill.
 Friedenwald Bros., 216 N Holliday, Baltimore, Md.
 Kemp, C. M. Mfg. Co., 401 E Oliver, Baltimore, Md.
 Lawler Water Feed & Damper Regulator Co. ("Lawler's"), 473 W B'way, New York

Celluloid, Fiberloid & Pyralin Mfrs.

Arlington Co. (Pyrolin), 475 B'way, New York.
 Celluloid Co. ("Celluloid"), 30 Washington pl., New York
 Fiberloid Co. ("Fiberloid"), 7 Waverly pl., N. Y.

Cement and Concrete Pavements

(See also Contractors, Asphalt Pavement; also Contractors, General; also Builders, Contracting)

ALABAMA.

MOBILE—Chamblin, G. A.
 MONTGOMERY—Conniff, J. S. & Co.
 SELMA—Bennett, P. G.

ARKANSAS.

LITTLE ROCK—Weideman, Hy.

CALIFORNIA.

ALAMEDA—Henderlong, C. A.
 McRae, C. W.
 Powell Bros.
 LOS ANGELES—California Concrete Bldg. Block
 Hein, J. & Co., 218 S. B'way, Co.
 Leonardt, C., 356 S. Spring.
 OAKLAND—Hillhouse, Reardon & Co., 313 13th.
 Lauridsen, Jens, H., 703 Madison.
 Oakland Paving Co., Central Bank Bldg.
 Ransome Construction Co., 1216 B'way.
 Stone, E. B. & A. L. Co., 900 B'way.
 SACRAMENTO—McGillivray, Jas., 2319 G.
 Teichert, Adolph, 2401 J.
 SAN FRANCISCO—Gray Bros., 30th & Castro
 Haun, C. C. W., 313 28th
 Jackson, P. H. & Co., 225 First
 Keatinge, Maurice, 1984 Vallego
 Lynch, Andrew, 1206 Clement
 O'Brien, Jas. H., 738 Hayes
 Pacific Cement Construction Co., Monadnock Bldg, 710 Montgomery
 Pioneer Asphaltum & Artificial Stone Co.,
 Stettin, Herman, 839 Cole
 Stettin, Reinhold, 26 Carl
 Wetmore, G. P. & Co., Lombard & Montg'y
 SANTA ANA—Grouard, C. E.
 STOCKTON—Hammond & Yardley, Weber av
 Hedges-Buck Co., Weber av

COLORADO.

DENVER—Colorado Roofing & Paving Co., 218 15th
 Hinchman-Renton Fire Proofing Co., 1815
 Miller, Hy. & Co., 1837 Stout
 Saltiel, Jno. T., Charles bldg
 Arapahoe

CONNECTICUT.

ANSONIA—Houghtaling, W. N.
 BRIDGEPORT—Anderson, J. J. & Co., 952 Main
 Bullard, W. S., 629 Water
 Burns & Co., 83 Fairfield
 Doolittle, E. T., 139 Cowles
 Pascone, Jno. & Co., 82 Reilly
 Pierce, B. D., Jr., Co., 122 Bank
 DANBURY—Benjamin, F. C. & Co., 13 Spring
 DERBY—Fagan, F. H. Co.
 GREENWICH—Eagan, Thomas
 HARTFORD—Billings' Sidewalk & Coal Co., 437 Sheldon
 Clarke, E. W. & Son, 32 Village
 Hartford Paving & Construction Co.
 Southern New England Paving Co.

Economy
 Character
 Quality

STEEL CEILINGS

SUITABLE FOR ALL CLASSES OF BUILDINGS

N. Y. METAL CEILING CO.,

533 West 24th Street,

NEW YORK CITY

SOLE MFRS. ENAMETILE.

Watson & Jackson Corp., 283 Sheldon
 MERIDEN—Dahill, John F.
 Lane Construction Corporation
 MILFORD—Clarke, Elbert N.
 NAUGATUCK—Dunn, Jeremiah H.
 NEW HAVEN—Blakeslee, C. W. & Sons, 58 Waverly

Brady, Terence, 2 Cedar Hill av
 Clark, C. W. & Son, 109 Commerce
 Connecticut Concrete Co., 39 Church
 Coyne Bros. Concrete Co., 250 Blatchley av
 Humphrey, Jno., 45 Winchester av
 Kellogg, C. W. & Co. (Vitrified Stone), 506
 Loughlin, Patrick, 256 James State
 Morrissey, James, 149 Greenwich av
 Robinson, C. Dwight (Carbonized), 1 College
 Thompson, John P., 962 Grand av
 NEW LONDON—Andre, Benjamin, 352 Williams
 Burch, H. O. Mfg. Co., 67 Coit
 Post Bros., 170 Bank
 Rogers, H. E. Construction Co., 29 Grand
 NORWALK—Clark, Frank F., Newtown av
 NORWICH—Nickerson, A. B.
 Peck, McWilliams & Co.
 Rice, Frank G.
 PUTNAM—Arnold, A. L. & Co.
 ROCKVILLE—Harris, A. B.
 SOUTH NORWALK—(See Norwalk)
 STAMFORD—Biondel, Leonard
 Bounty, A. B.
 TORRINGTON—Crockett, Chas. W.
 Gleeson, P.
 WATERBURY—Chatfield & Chatfield, 94 Bene-
 dooling, Thos., 64 Stone dict
 McGrath & Son, 26 Magill
 Riggs, Gardner G., 108 Bank
 WILLIMANTIC—Sullivan, M.
 WINSTED—Beers, Nelson D.

DELAWARE.

WILMINGTON—Hamilton, Jos. S., 605 Franklin
 Lenderman & Bro., 10 W 8th
 McCaulley, Geo. W. & Son Co., 103 W 8th
 Reed, A. S. & Bro. Co., 815 Shipley
 Simmons & Bro., 421 Market

DISTRICT OF COLUMBIA.

WASHINGTON—Brennan Construction Co., ft
 31st, N. W.
 Colburn Paving Co., Bond Bldg.
 Crauford Paving Co., 2620 C, N. W.
 Grove Lime & Coal Co., N. Y. av. & 1st,
 N. E.

FLORIDA.

TAMPA—Tampa Tile & Granolitho Co.

GEORGIA.

ATLANTA—Atlanta Terra Cotta Co., 6 N For-
 Atlanta Tile Co., 123 Central av syth
 Murphy, C. P. & Son, 6 N Forsyth
 Smith, O. A. Roofing & Contracting Co., 27
 Walton
 Southern Roofing Co., 106 S. Forsyth

ILLINOIS.

AURORA—Safford, R. S. & Son
 Saltisberg, J. E. & Co.
 CAIRO—Halliday, W. R.
 CHICAGO—Baum, Christian & Son, 3638 Wal-
 Biesen, Peter F., 145 LaSalle lace
 Biome, R. S. Co., Unity bldg
 Blunk, Ferdinand L., 56 Wilmet av
 Brownell Improvement Co., 1220 Chamber of
 Commerce
 Byers-Mills Construction Co., 825 W. 63d
 Citizens' Construction Co., Chamber of Com-
 merce Bldg
 Conway, R. F. Co., Cham. of Com. Bldg
 Dillon, John Co., 172 Washington
 Dolese Bros Co., 78 LaSalle
 Fulton, J. L. & Co., Monadnock bldg
 Garden City Paving & Post Co., 167 Dear-
 Craft, Albert & Co., 70 La Salle boru
 Hedegard, J. L., 173 Lincoln av
 Heineman, J. A. & Co., 85 Dearboru
 Hoefler & Co., Cham. of Com. bldg
 Illinois Portland Cement Paving Co., 218
 La Salle
 International Asphalt Co., 138 Wash.
 Karstens & Robrahn, 125 La Salle
 Kehl, Gottfried, 625 N. Campbell av
 Kelly, Jas. T., 741 W. 43d
 Laffier, A. J. & Co., 185 Dearborn
 Larsen, Hans, P., 145 La Salle
 Lynch, Jno. & Co., 145 La Salle
 McDonald, Henry, 3238 Wentworth av
 McEvoy, W. P. & Co., Reaper bldg
 Nichols, W. & Co., 1323 W. Ravenswood Pk.
 Otley Mfg. Co., 855 N. Winchester av.
 Panoch Cement Construction Co., 81 Clark
 Perkins, E. B., 663 Flournoy
 Pleas & Co., Cham. of Com. bldg

Powell Bros., Cham. of Com. bldg
 Powell, M. W. Co., 204 Dearborn
 Ray Bros., 168 Emerson av
 Runge, M., 670 N. Rockwell
 Sackley, J. A. Co., Cham. of Com. bldg
 Savage Construction Co., 1st Nat. Bank bldg
 Schillinger Bros. Co., 1181 N. Seeley av
 Sennott Paving Co., 84 Wash'n
 Simpson Construction Co., 704 Cham. of
 Smith & Brown, 78 La Salle Com. bldg
 Standard Concrete Construction Co., 184 La
 Standard Paving Co., 34 Clark Salle
 Standard Roofing Co., 290 N Halsted
 Warner Construction Co., 112 Clark
 Wetterstrom, E. J., 1525 Wolfram
 Wheeler, W. W. & Co., 154 W. Wash'n
 Wheeler & Thomas Roofing Co., 169 N Wells
 White, David, 319 W 63d
 Will, E. & Co., 568 Sheffield av
 Witt, Aug., 145 La Salle

DIXON—Kelly, John W.
 EAST ST. LOUIS—Keating, Frank & Co. (Gran-
 itoid), Stephen's House
 ELGIN—Bell, Edward Son
 Bell, William
 EVANSTON—Voights, Henry, Benson av
 Wigginton, Jas., Oak av
 FREEPORT—Ascher, William
 JOLIET—Joliet Artificial Stone Co.
 KANKAKEE—Kankakee Artificial Stone Co.
 McLaughlin Matcer Co.
 MOLINE—Gust, Edw. & Son
 MONMOUTH—Wilcox, O. D. & Co.
 OTTAWA—Leix, Jos. W.
 PEKIN—Albrecht, Edward
 Jansen & Zoller
 Saal & Brooking
 PEORIA—Bushell Mfg. Co., 1317 S. Washington
 Janssen, G. & Sons, 230 Dechman av
 Wasson, T. J., 403 S. Washington
 PERU—Schweickert, Henry E.
 QUINCY—Clough Concrete Construction Co.
 Menke, F. W. Stone & Lime Co.
 Rader & Graham
 Vonderhaar, Herman H.
 STERLING—O'Hair, Peter
 WAUKEGAN—Miller, Frank H.

INDIANA.

ANDERSON—Kelly, T. P.
 Lyst, Edward E
 EVANSVILLE—Anchor Roofing & Paving
 Co., 915 River Front
 Indiana Concrete Co.
 Lensing, Henry A.
 Teokoppel & Thayer
 FORT WAYNE—Fort Wayne Roofing & Paving
 Co., 152 W Main
 Moellerling Construction Co.
 GOSHEN—Self, Samuel C.
 GREENSBURG—Thompson, J. P. & Co.
 HUNTINGTON—Shock, J. W.
 INDIANAPOLIS—Baxter, Jacob V., 1507 Har-
 Bowen, A. D., 2224 B'way lan
 Brandt Bros., Builders' Exchange
 Bruce, J. J., 22 S Holmes av
 Bruner, A. & Co., 730 N. New Jersey
 Caldwell, Marion, 145 East Market
 Dunn Bros., 722 N. Tremont av
 Ernsting, Wm., 1118 Woodlawn av
 Indiana Cement Block & Post Co., Lombard
 Bldg
 Indiana Paving Brick & Block Co., Ter-
 minal bldg
 Indiana Contracting Co., 999 Traction Ter-
 minal bldg
 Jackson Bros., Contractors, 1719 Columbia av
 Kane, Thos. E., 2204 N Penn
 Keller, Julius Construction Co., 127 Fulton
 Laakmann, Fred, H., 605 St Clair
 Maag, Hy., 11 Regent
 Niemeler, Cornelius S., 1709 Hoyt av
 Reed & Graham, Cornell av & 27th
 Rogers, B. F., 1603 E. Washington
 Shute, H. L., State Life bldg
 Symmes, H. H. Co., 45 Kentucky av
 The Sheehan Construction Co., 534 Bell
 Wacker, Chas. J., 2649 E Parkway
 Walker, J. T. & Son, 830 E Morris
 Webb, Clayton A., 721 Wilson
 LAFAYETTE—Jumper, Oliver M.
 LOGANSPOUT—Gallion, Andrew J.
 MUNCIE—Birch, W. M.
 Jones, Levi J., Madison nr River
 SEYMOUR—Weathers, E. G.
 TERRE HAUTE—Moudy & Coffin, 901 Wabash
 Reimann & Steig Co., 903 Wabash av av
 VINCENNES—LaCroix, J. D.
 Moore, W. H. Mfg. Co.

IOWA.

CLINTON—Shoecraft, S. & Son
 Smith & Oakes
 COUNCIL BLUFFS—Wickham, E. A. & Co.
 CRESTON—Kennev, E.
 DAVENPORT—Davenport Stone & Marble Co.
 McCarthy & Clark
 Tri-City Construction Co.

DES MOINES—Benson & Marxer, 425 Grand av
 Brown, N. L., 936 20th
 Butcher & Storey, 527 E Walnut
 Maine, Jas. & Sons Co., 119 8th
 Stehm Cement Paving Co., 719 7th
 DUBUQUE—Key City Roofing Co.
 IOWA CITY—Berry, Jno. L., 413 S Johnson
 Horribin, Wm., 403 E Washington
 OSKALOOSA—Carlson, Geo. & Son
 WATERLOO—Faus & Ryan

KANSAS.

KANSAS CITY—Luther, G. A., 1016 Greeley

KENTUCKY.

COVINGTON—Steffens, Jas.
 LATONIA—Stuntebeck, Jno. L.
 LOUISVILLE—Falls City Artificial Stone Co.,
 PE 801 'CO HoxoL-q31J 216 E Main
 National Roofing & Supply Co., 140 W Main
 Peterson, E. E., 337 5th
 HENDERSON—Kyle, P. C.
 PADUCAH—Williamson, J. E.

LOUISIANA.

NEW ORLEANS—Babst, Chas. J., 1205 S Frank-
 in
 Calongne & Sargent, 1231 Magnolia
 Jahneke, F., 816 Howard av
 Memory, R. G. & Son., 409 Baronne
 Sicilian Asphalt Paving & Contracting Co.,
 312 Gravier
 Calongne & Sargent, 1231 Magnolia
 SHREVEPORT—Chatwin Bros.

MAINE.

LEWISTON—Howard, Nelson, 36 Lisbon
 PORTLAND—Maine Artificial Stone Co.
 Portland Sewer Pipe & Artificial Stone Co.,
 Smardon, Geo. H., 42 Market 83 Preble

MARYLAND.

BALTIMORE—Brandt, Ernest P., 30 Wash'n
 Doggett, Hilton J. (Impervious Product Co.),
 213 St. Paul
 Filbert Paving & Construction Co. (grano-
 lithic), 1210 Block
 Gault, Wm. A & Son, 745 W. North av
 Granite Plastic, Slate & Slag Roofing Co.,
 882 Ryan
 Leonard, Daniel A., Builders' Exchange
 Maryland Pavement Co., 6 E Lexington
 Mulier, Max B., 1430 Patapsco
 Robertson, J. L., 6 E. Lexington
 Schaffner, John, 1008 Ridgley
 Thormann, John H. & Co., 12 McClellan
 Wallis, B. & Co., 210 E. Lexington
 Watts, James S., 931 Park av

MASSACHUSETTS.

ARLINGTON—Lowe, George H.
 AUBURNDALE—DeLacey, J. A.
 BEVERLY—Fitzgibbon, Thos.
 McSweeney, Patrick
 BOSTON—Barber Asphalt Paving Co., 161 De-
 Boston Asphalt Co., 54 Kilby vonshire
 Bragdon, Louis G., West Medford
 Carr, Geo. W. Co., 101 Tremont
 Coleman Bros., Union (Everett) & 15 Court
 Cram, B. M., 93 Brook av, Rox sq
 Gore, Thos. J., 54 Kilby
 Harris, Chas., 70 Kilby
 Hind, Thos. J., 19 Milk
 Jones & Meehan, 10 Tremont
 Libby, James O. & Co., 17 Milk
 Marston Bros., 3 Ivanhoe
 Murfieldt, W. A. Co., 161 Devonshire
 Rafferty, Wm. J. & Co., 56 Dorchester av
 Simpson Bros., Corp., 166 Devonshire
 Taylor, E. R. Co., 164 Federal
 Turner, H. G. & Co., 20 Central
 Whidden & Co., 155 Milk
 CHELMSFORD—Robinson, J. W. & Co.
 HAVERHILL—Duffee, W. F. & Co., 214 Merri-
 Saltmarsh, A. H., 24 Arch mack
 HOLYOKE—Farrell, Jas. E., 131 Maple
 Gibson, Thos. J. & Co., 32 Main
 Grant, John H. & Son, 80 Nonotuck
 O'Connell's, Daniel Sons, 188 Hampden
 Prew, John J., 887 Main
 HYDE PARK—Chisholm, C. C.
 Shepherd, P.
 LAWRENCE—Horn, George W., 613 Common
 Pierce, J. B. & Co., P. O. Box 95
 Smith & Bingham, 16 Sargent
 LEE—Heaphy, William A.
 LEOMINSTER—Leominster Concrete Co.
 LOWELL—Fuller, George B., 1524 Gorham
 Hands, Stephen W., 32 Humphrey
 Smith, E. A. & A. T., 13 Merrimack sq
 Walsh, James P & Co.

MALDEN—McDonald, Daniel, 66 Winter
MELROSE—Hoffman, C. L. & Son, 44 Charles,
 Philpot, R. M. H.
NATICK—Ferguson & Hall
PITTSFIELD—Booth, G. A., 48 Kent av
 Healy, T. J., 18 Oak
 Kelley, Caleb M., 57 Loring av
SOUTHBURIDGE—Claffin Bros.
SPRINGFIELD—Burke, Peter, 16 Osgood
 Driscoll, Jeremiah R., 385 Liberty
 Goodhue, Chas. L.
 Lyon, A. E., 104 Cornell
 Sackett Bros., 834 Worthington
TAUNTON—Black, Wm. R., 32 Union
WALTHAM—Hays, Josiah S.
WARE—Nelligan, P. J.
WARKEN—Kecna, John
WATERTOWN—Tripp, David F.
WESTFIELD—Dineen, J. J.
WOBURN—Ellis, J. M. & Son
WORCESTER—Carr, Geo. W. Co., 518 Main
 Jenks, H. L. & Son, 17 Freeland
 Kane, M. J., 9 Wade
 Kelley, Jno. F. Co., 57 Barclay
 Kiely, J. J., 23 Glen
 O'Gara Construction Co.
 Power, Nicholas R. & Co., 10 Merrifield
 Williams, A. C., 553 Main

MICHIGAN.

ADRIAN—Gimbert, Thomas
 Matthes Bros.
 Matthes, C. F.
ANN ARBOR—Koch Bros.
BATTLE CREEK—Green, Fayette B.
BAY CITY—Fehrenbach, Henry
COLDWATER—Wolverine Portland Cement Co.
DETROIT—Brady & Co., 9 Woodward av
 Cleveland Silix Stone Co.
 Dancy & Co., 426 6th
 Garner Bros., 242 31st
 Gearing Bros. Co. (Ltd.), 121 Wayne
 Grant, Archibald, 1614 Woodward av
 Keller, Jno & Co., 516 Michigan av
 Schlinger Bros., Illinois & Dequindre
 Western Artificial Stone Co., 418 Moffat bldg
FLINT—Ryan, Patrick
GRAND RAPIDS—Battjes Fuel & Bldg. Material Co., 963 S. Division
 Boyes, D. W., 275 Stocking
 Granite Stone Co., 87 Kent
 Knowlson, A. B., Nat'l City Bank bldg
JACKSON—Howind, C. A., Dwight bldg
 Lake-Ulrichs Co., Liberty & Milwaukee
 Tobin, E. & Co., 145 W. Pearl
KALAMAZOO—Sales, John A., 316 W. Walnut
LANSING—Lansing Artificial Stone Co.
 Rounselle, Fred'k N.
 Jenks-Wade Co.
SAGINAW—Delonjay, C. L., 118 Annesly
SALINE—Ford, E. W. & Son

MINNESOTA.

ADRIAN—McCord, John.
DULUTH—Duluth Electrical & Construction Co.,
 210 W. 1st
 Thomson & Dunlop, 226 W. Michigan.
FARIBAULT—Manhattan Paving Co.
MANKATO—Carlson, John.
 Fowler & Pay.
 Mankato Cement Works.
MINNEAPOLIS—Advance Stone Sidewalk Co.,
 The Phoenix
 Andrews Paving & Sidewalk Co., 3109 15th
 av S.
 Carlson Bros. Sidewalk Co., 2441 Minnehaha
 S. av
 Columbia Paving Co., 804 N. E. Wash'n.
 Columbus Stone Sidewalk Co., 1843 E. Lake.
 Crittenden Roofing & Mfg. Co., 706 S. 5th.
 Germania Sidewalk Co., 2622 Marshall.
 Gibraltar Concrete Block Co., 3440 Portland
 Hennepin Paving Co., 1310 E. Lake.
 Minneapolis Paving & Cement Brick Mfg.
 Co., New York Life Bldg.
 Model Cement & Stone Co., 3625 Bloomington
 av.
 Nelson Bros. Paving & Construction Co., 221
 S. 5th st.
 Occidental Stone Sidewalk Co., Security Bank
 Bldg.
 Peterson Bros. Sidewalk Co., 2422 Chicago av
 Plymouth Paving & Construction Co., 728 Plymouth
 mouth
 Republic Creosoting Co., N. Y. Life Bldg.
 Robertson, Peter, 15 S. 4th
 Swan, Nelson—Sidewalk Co., Northwestern
 Bldg.
 Twin City Sidewalk & Pavement Co., 21
 University av., N. E.
 Union Paving Co., 1301 25th av. N.
ST. PAUL—Alpena Portland Cement Co., Pioneer
 Bell, D. L., 270 Jackson st. Press Bldg.
 Como Stone Co., 633 Laurel av.
 Dayton Stone Co., 980 E. 7th.
 Eureka Stone Co., 709 Wabasha.
 Fielding & Shepley, 216 W. University av.

Forrestal, James Co., N. Y. Life Bldg.
 Lind, John, 34 E. 2d.
 Northwestern Stone Co., 186 W. University av
 Portland Stone Co., N. Y. Life Bldg.
 St. Paul Stone Co., 533 Wabasha.
 St. Paul Lime & Cement Co., foot of Jackson
 St. Paul Paving Co., 390 W. Central av.
 University Stone Co., 611 W. University av.
 Willis, H. J., cor. 2d & Main.
STILLWATER—St. Croix Stone Sidewalk Co.
 Stillwater Stone Sidewalk Co.
 Weckwerth, Joseph.

MISSOURI.

BEVIER—Bevier Hollow Cement Building Block
DEPENDENCE—Lewis, J. E. Co.
JEFFERSON CITY—Pope & Droste.
KANSAS CITY—Brockett, C. A., Cement Co.,
 Gessner, C. E., Essex Bldg. Aetna Bldg.
 Harnes, G. W., 3000 Locust.
 Jacobs, W. L., 2745 Myrtle.
 Johnson Sidewalk Co., Ricksecker Bldg.
 Kansas City Cement Sidewalk Co., 312 E. 9th
 Kansas Paving Brick & Tile Co., 310 Keith
 & Perry Bldg.
 Knapp & Coumble, Mass. Bldg.
 Krames, Wm., 3234 Garner.
 Missouri Sidewalk Co., Mass. Bldg.
 Pierce, S. H., 121 W. 8th.
 Pittsburg Paving Brick Co., Postal Telegraph
 Bldg.
 Portland Cement Co., 24th, cor. B'way.
 Todd-Conway Concrete Construction Co., Postal
 Telegraph Bldg.
 Walton Granolithic Co., 2500 E. 18th.
ST. JOSEPH—Nowland & Mannan.
ST. LOUIS—American Granitoid Flagging Co.
 (Granitoid), 1815 Park av.
 Asphalt & Granitoid Construction Co., 2429
 S. B'way
 Atlas Construction Co., M. O. Trust Bldg.
 Barber Asphalt Paving Co., Holland Bldg.
 Barrett Mfg. Co., Fullerton Bldg.
 Bruner, P. M., Granitoid Co., Frisco Bldg.
 Fehlig, J. Frank, 3500 Hickory.
 Gelsel Construction Co. (Granitoid), 620
 Chestnut
 Gilson Asphaltum Co., 211 N. 7th st.
 Gilsonite Construction Co. (Cement & Gran-
 itoid), Walnwright Bldg
 Gordon, S. & Son, Benoist Bldg.
 Graham Granitoid Co. (Granitoid), Odd Fel-
 lows' Bldg.
 Grund-Alt Construction, Granite Block.
 Hayes, E. L. S., 1019 Chestnut.
 Heman Construction Co., Fullerton Bldg.
 Kohl, George & Son, 3947 Vest av.
 McCormack-Combs Co., Tobin Bldg.
 Novaculite Paving Co., 405 N. 6th.
 Petty, Benj. Contracting Co., 2413 N. 9th.
 Rieh Construction Co., Roe Bldg.
 Rowland, J. H., Granitoid Construction Co.,
 820 Chestnut
 St. John, Patrick, Granitoid Co., 816 Olive.
 St. Louis Portland Cement Co., Colonial Se-
 curity Bldg.
 Schottler, John C. (Granitoid), 5156 Minerva
 av.
 South Side Granitoid Co., 2116 Wyoming.
 Sullivan, Frank J. (Granitoid), 617 Chestnut.
 Trinidad Asphalt Mfg. Co., 317 S. 21st.
 Venetian Mosaic & Granitoid Co., 2241 Clark
 Voigt, August, 1806 Dolman.
 Zbaren Construction Co., Victoria Bldg.

MONTANA.

BUTTE—Western Asphalt & Gravel Roofing Co.
NEBRASKA.
KEARNEY—Hibberd Brick Co.
LINCOLN—Lincoln Artificial Stone & Tile Co.
 Reimers & Fried.
OMAHA—Creedon, P. J., 953 N. 25th.
 McWilliams Bros., 1513 Burt.

NEW HAMPSHIRE.

CLAREMONT—Bartlett, James H.
CONCORD—Rowell, Jas. H. & Co., 45 School
MANCHESTER—Robie Consolidated Concrete
NASHUA—Nashua Concrete Co. Co.
 Osgood Construction Co.
 Tardif & Bellavance

NEW JERSEY.

CAMDEN—Sweeten, B. F. & Son, Cooper &
 Delaware
ELIZABETH—Eilbacker, Chas., 32 4th
JERSEY CITY—Cement Paving & Construction
 Co., Prior & Grand
 Commonwealth Roofing Co., Grove & 19th
NEWARK—Barber Asphalt Paving Co., 45 Hal-
 Burnet Asphalting Co., 89 James sey

Commonwealth Roofing Co., 19 Division
 Concrete Building Block Co., 45 Clinton
 Economy Paving & Cons. Co., 1222 Broad
 Hetzel, J. G. (Est. of), 67 Maine
 Newark Paving Co., 133 1st
 Pitts, Chas. L. Co., 58 E Park
 Reinhard, Adam, 30 Jay
 Schouler, W. W., 45 Clinton
 Turrell, Wm. H., 22 Clinton
NEW BRUNSWICK—Cole, Thos. C., Townsend
 c Drift
PATERSON—Sharpe, Jos. Construction Co., 647
TRENTON—Fell, Henry R. Co. E 18th
 Irven Artificial Stone Pavement Co.
 Smith, J. D., 433 Monmouth
WEEHAWKEN—Roman, George
WOODBURY—Henry, E. P.
 Henry, Albert

NEW YORK.

ALBANY—Collins Bros., Bensen bldg
 Davenport, S. J. & Co., Tweddle bldg
 Dumary, T. H., 78 State
 Dyer, John, Jr., Albany Trust Co. bldg
BATAVIA—Page, William E.
 Wolsey, W. C.
BINGHAMTON—Ingalls Stone Co.
 People's Cement Brick Co., George M. Gris-
 wold
BROOKLYN—(See New York City, Borough of
 Brooklyn)
BUFFALO—Argentia Paving Co., 402 Brecken-
 Baker, R. R., 111 Bidwell Parkway ridge
 Barber Asphalt Paving Co., 880 Ellicott sq
 Boulding, A. & Co., 156 16th
 Buffalo Concrete Paving Co., 218 Northamp-
 ton
 Buffalo Cement Co., 110 Franklin
 Burgard, H. P., Prudential bldg
 Cockburn Bros. Co., Builders' Exch.
 Crescent Pavement, 96 Erie Co. B'k bldg
 Electric Paving Co., 212 Kingsley
 German Rock Asphalt & Cement Co., 304 D.
 S. Morgan bldg
 Gipp, L. H., 531 Ellicott sq
 Grefe, Wm. & Co., 22 Pomona pl
 Hotelling, Daniel, 501 Rhode Island
 Iroquois Portland Cement, Prudential bldg
 Jameson, C. B., 250 Pearl
 Knickenberg, F. W., 702 Michigan
 Maltby, Geo. W. & Sons, 21 Maryland
 Miller, John, 802 Ellicott
 Owens, H. M., 257 Fougerson
 Seibert, Robert, D. S. Morgan bldg
 Wisdom Paving Co., 123 Wilkeson
DUNKIRK—Meister, Peter & Son
FAIRPORT—Longley, Harvey H.
GENEVA—Cole, E.
 Mulcahy, Patrick
 Tracey, Alfred T.
GLOVERSVILLE—Anibal, Robert S.
LOCKPORT—Delbert, Wm. J.
LONG ISLAND CITY—(See New York City,
 Borough of Queens)
METROPOLITAN—(See New York City, Bor-
 ough of Queens)

NEW YORK CITY. Borough of Brooklyn.

BROOKLYN—Castle Bros., 192 Douglas
 Commonwealth Roofing Co., 45 Waverly av
 Cranford Co., 52 9th
 Graham, Jas. P., 86th & Bay 41st
 Harrington, Michael J., 755 Wythe av
 Jenner, F. J., 528 Driggs av
 Ledwith, P. J. & Son, 1497 Bergen
 Mock, Isidor, 89 Debevoise
 Owen, Wm. C., 44 Court
 Putnam, W. K. & Co., 5121 3d av
 Rellly, Thos. J., 88 Sumpter
 Smith Matthew & Son, 392 B'way
 Wallabout Roofing Co., 294 Flushing av
 Wilson & Baillie Mfg. Co. (Kosmocrete) 85
 9th

Boroughs of Manhattan & Bronx

NEW YORK—American Fireproofing & Cement
 Construction Co., 1135 B'way
 Colman, Chas. H. & Co., 320 B'way
 Denton & Co., 42 E 23d
 Empire Paving & Construction Co., 1931
 B'way
FLEMING & CO., 123 Liberty.
 (See adv. index, end of book)
 Furlong & Furlong, 459 E 135th
 Golliet & Smith, 1133 B'way
 Hilgers, Wm. Co., 202 W 101st.
 Huntley, Frank C., 117 E 120th
 Jaffray, R. H. Co., 25 W. 42d
 Martin, Joseph, B'way & 86th
 McHugh, M. & Sons, 505 W 42d
 Meyer, Louis G. (Flintholitic), 156 5th av

Mosher, J. S., 8 E 42d
National Pyrogranit Co., 17 Battery pl
Neuchatel Asphalt Co. (Ltd.), 265 B'way
Neus, Henry, 454 E 116th
Pecora, D. G., 418 E 115th
Pietrowski, Konop Co., 418 E 91st
Sturk, John H. & Co., 126 E. 120th st
Taylor, E. R. & Co., 160 5th av
Taylor, Ronald, 520 E 20th
Warren Bros. Co., 253 B'way

(END OF NEW YORK CITY)

PEEKSKILL—Smith, John

PORT CHESTER—Merritt, Henry A.
Ryan, Wm. & Co.

ROCHESTER—Bargy, Warner B., 10 Barton
Chambers & Grady, Powers bldg
Hercules Concrete Block Co., Lyell av &
Magne st

Hooker, H. B. & Sons, Wilder bldg
Hollister Concrete Block Co., Central bldg
Krewer, Michael, 323 Wilder
Lauer, Fred. C. & Son, 458 S. Clinton av
Neff, Godfrey S., 30 Evergreen
Oliver, Horace T., 328 South av
Rochester Vulcanite Pavement Co., 16 State
Rochester Concrete Building Material Co.,
712 South Clinton av

Rock Asphalt Pavement Co., 279 South av
Stiles, Henry H., 39 Meng pl
Whitmore, Rauber & Vivinus, 279 South av

SANDY HILL—Gibson Bros.

SARATOGA SPRINGS—Saratoga Cement Walks
(Geo. W. Wiuship, Mgr.), 30 Waterbury
SCHENECTADY—Beckwith Bros.

Weed, F. A.

SYRACUSE—Central City Paving Co., Kirk bldg
Dwyer, Wm. J., 112 E Jefferson
Jaynes, John, 609 Midland av
Onondaga Litholite Co., 105 N West
Sullivan, C. J., 126 S Clinton
Whittle, T. E., 405 Burnet av

TARRYTOWN—Dinkel & Jewel Co.

Duell, James

Ross, Adam & Son, 2748 6th av

UTICA—Allen, B. & Sons, South c Hammond
av

Commonwealth Roofing Co., Clarendon bldg
Godfrey, E. C., 144 Albany
Interstate Paving Co., Sickenherger pl
Warren Bros., Clarendon bldg

NORTH CAROLINA.

CHARLOTTE—Charlotte Roof & Paving Co.

OHIO.

AKRON—Akron Paving & Plastering Co., 362
S B'way

Wildes, Jas. & Son, 44 S College

CARTHAGE—Hellmich, August & Co.

CINCINNATI—Behne Bros., 2185 Barnard

Cincinnati Roofing & Paving Co., Carlisle
bldg

Dugan, Matthew, 907 Garfield av

Endres, Wm. & Co., 705 Reading rd

Gier, Fred. B. & Co., 208 Webster

Hattaway & Co., Builders' & Traders' Ex

Kolling Henry W.

Kolling, Wm. Co., 717 Reading rd

Kuhl, Chas. Artificial Stone Co., 603 Read-
ing rd

Leonard, B. A., 4172 Mad Anthony

McCammon, L. H. Bros., Johnston bldg

Mack, Martin, 38 W McMicken av

Maescher, Chas. V. & Co., 617 Reading rd

Menger Paving Co., 2017 Vine

Niehaus, B., 39 W Corry

Von Dohre, John H., 1111 McPherson av

Walker, G. P., 621 Main

CLEVELAND—Acme Cement Stone Co., W 70th
(Leyden)

Atlas Construction Co., 1516 Fairfield av,
S. W.

Brennan, Jno. F., The Arcade

Burgess, C. H., 241 Euclid av

Carey, J. D., Electric bldg

Clement Bros. Construction Co., 229 Colonial
Arcade

Cleveland Concrete Building Block Co.,
Rockefeller bldg

Cleveland Macadam Co., Union & Upton

Cleveland Trinidad Paving Co., 420 Lakeside

Crooks, C. C., 644 E 103d av

Faragher Engineering Co., 53 Public sq

Forest City Construction Co., Society Sav-
ings bldg

Fromm, John N., 131 New

Hayes, P. F., 5702 Hermann

Kelly, Thos., 1010 Superior

Masters & Mullen Construction Co., Rose
bldg

National Construction Co., American Trust
bldg

Ohio Litholite Co., 1021 Prospect, S. E.

Platten, M. P., 3100 Lorain av

Rackle, G. & Son, Superior c Rossiter

Standard Paving Co., Society for Savings
bldg

Stevens Artificial Stone Co., Hird st., Lake-
wood

Vulcaulte Paving Co., Soc. for Sav. bldg

Wood, Thos., 81 Michigan

COLUMBUS—Abhatt, N. B., 85 N High

Acme Paving Co., 403-419 W State

Keefe, M. J., 72 N Central av

Kuhn Artificial Stone Co., 55 N Skidmore

McGrath, D. W., Nat'l Bank bldg

Orahoad, D. M., 118 Rodgers av

Pugh, Andrew G., Union Nat'l Bank bldg

Standard Paving Co., 378 W. Rich

Stutz, Herman, 324 Jackson

Vulcanite Paving & Concrete Co., 1594
Neil av

DAYTON—Conley, J. E. & Co., 15 N. St. Clair

Dayton Asphalt Roofing & Paving Co., 18 S
Canal

Kernan, Wm. J. & Co., 425 S. Cincinnati

Kirchner Co., 2015 S. Wayne av

Kuhns, E. A., 536 E. 2d

HAMILTON—Hamilton Artificial Stone Co.

Kinch, Frank, 435 Main

Miami Cement Co., 435 Main

HOME CITY—Drucker, Fred.

MASSILLON—Segner, E. C.

MIDDLETOWN—Deitrich, E. L.

Kemp, F. M. & Son

PIQUA—Martin, C. E.

SPRINGFIELD—Long, Cyrus M., 143 Pearl

McHugh, Wm. E., 206 Harrison

Russell, M. C., Limestone c Warder

Russell Bros., 351 N. Limestone

TIFFIN—Weott Bros.

TOLEDO—McMahon, Wm. & Sons, 321 Floyd

SCHILLINGER BROS. CO. (See

adv. index, end of book)

Schoen, John J., 2267 Jerome

YOUNGSTOWN—Chambers, J. B.

Fleming & Donuchie

Jones, V. E.

Miller, Theo. F.

Ohio Stone & Paving Co.

Reed, J. H.

Sharp Bros. Co.

ZANESVILLE—Fogarty, Thos. H., Linden av

OREGON.

PORTLAND—Marshall Bros., Cham. of Com.

Thiess, B. F., 904 Union av. N bldg

Tresham, Jno. D., 972 E Taylor

PENNSYLVANIA.

ALLEGHENY—Gwinner, Fredk., 1801 Market

Sicilian Asphalt Paving Co., ft Allegheny av

ALLENTOWN—Hardner, Geo. H., 602 Hamilton

Weaver Contracting Co., 23 S. 10th

ASTLAND—Leibig, Charles & James

BALLY—Melcher, Nicholas

BRADFORD—Kelly, David J.

CHAMBERSBURG—Asper, John C.

CHESTER—Johnson, John F., 1009 Madison

COATESVILLE—Dickinson, E. P.

EASTON—Luttenbarger, Jacob (Granolithic)

Siebler, W. F. & Co. (Granolithic)

EMAUS—McElroy, John E.

ERIE—Mayer, Henry 1215 State

FRANKLIN—Bigley, R. A.

HARRISBURG—Shoemaker, S. W.

HAZLETON—Williams, Thos. A.

LANCASTER—Eibel, Jos. A.

Lancaster Cement Paving Co. (John J. Ma-
Malone, R. A. & Co. lone), 225 Concord

NEW CASTLE—Moore, D. A.

Moore, H. M.

NORRISTOWN—Smith, Thos. V.

PHILADELPHIA—American Paving & Con-
struction Co., 211 S 9th

Asphalt & Concrete Paving Co., 227 S 9th

Block & Tile Paving Co., Harrison bldg

Brennan, Frank, 1409 Ritner

Brown, Felix, 27 N Juniper

Carter Paving Co., 906 Girard av

Chambers, Robt., & Son, 1022 York

Clymer, J. L., 1900 N Marshall

Columbia Artificial Stone Paving Co., 205 N
20th

Drehmann Paving Co., 2629 Parrish

Fairhill Artificial Stone Pavement Co., 1022
York

Fenner, Wm. D., 205 N 20th

Filbert Paving & Construction Co., Penna
bldg

Galbraith Paving Co., 3421 York road

General Paving & Construction Co., Betz
bldg

General Asphalt Co., Land Title bldg

General Crushed Stone Co., Real Estate
Trust bldg

Geshwind, Herbert W., Lippincott bldg

Gerhardt Fred., German-Amer. bldg

Germanic Artificial Stone Paving Co., 1409
Ritner

Granitoid Paving & Construction Co., Heed
bldg

Kirk Paving Co., 1028 Arch

Krause, Wm., 1640 N Marshall

Krause, Wm. & Son., 1621 N 5th

Lehigh Paving Co., 709 Cambria

Louchheim, J. H. & Co., Arcade bldg

McKee, H'y., 2522 Lehigh av

Markland Paving Co., Land Title bldg

Petriefe Paving & Roofing Co. (John. &
Thompson), 3345 Market

Quaker City Paving Co., 45 N 13th

Reid-Turnbull Construction Co. (Steel Con-
crete), 1206 Pennsylvania bldg

Schwartz, Jacob, 2306 N 27th

Shanley, B. M. & J. F. Co., Arcade bldg

Smedley Construction Co., Stephen Girard
bldg

Smith & Davis Co., Weightman bldg

Steel Protected Concrete Co., Real Estate
Trust bldg

Vulcanite Paving Co., Land Title bldg

Vulcanite Portland Cement Co., Land Title
bldg

Wallace, R. Bruce & Co., Drexel bldg

PITTSBURG—Alpha Portland Cement Co., Ger-
man National Bank bldg

Concrete Construction Co., Peeble c Abbott

Filbert Paving Co., Putnam & Hamilton av

Globe Asphalt Co., Bakewell bldg

New Castle Asphalt Block Co., Westing-
house bldg

Peabody & Filbert Co., 6812 Hamilton av

Pittsburg Construction Co., Diamond Bank
bldg

Portland Concrete Co., 35th & A. V. Ry

Wadsworth Stone & Paving Co., Bessemer

POTTSTOWN—Rush, John H.

READING—Eisenhauer, M., 541 Windsor

Koch, C. I., 204 S 3d

Maurer, D., 234 N 11th

Mayer, A. C., 926 N 11th

Stuebner, Albert G., 560 Gordon

Stelbner, Lewis H., 112 Hamilton

Union Cement Co., 644 Locust

Walter, F. E., 930 Buttonwood

Wilson, R. L. Roofing & Paving Co., 518 N

TITUSVILLE—McDonald, W. H.

WARREN—Beck, Edward T.

YORK—Engle, Michael H.

Lehman & Co.

RHODE ISLAND.

BRISTOL—Callan, L. H.

EAST PROVIDENCE—Crane, J. & Co., 7 War-
ren av

NARRAGANSETT PIER—Bristow, Jno.

PASCOAG—Bressett, Peter

PAWTUCKET—Adams, F. N. & Son

Lull, Henry F.

PROVIDENCE—Baliou, F. M. Co., 1325 Broad

Cartier, M. N. & Sons Co., 293 Canal

Citizens' Concrete Co., 75 Westminster

Crane, Jno. & Co., 158 Fort

Hathaway, H. B., 48 Wilson

Holland, Frank, 104 Gesler

Johnston Concrete & Roofing Co., 654 At-
wells av

Moore, Jno. W. Co., 143 Allens av

Narragansett Concrete Co., 35 Westminster

Providence Concrete & Roofing Co., 35 West-
minster

R. I. Concrete Co., 3 Custom House

Smith Concrete Co., 19 Ridge

United States Concrete Roofing Co., Banigan
bldg

WESTERLY—Westerly Concrete Co.

WOONSOCKET—Ballou, F. M. Co.

SOUTH DAKOTA.

SIOUX FALLS—Parmley, H. T.

TENNESSEE.

BRISTOL—Ideal Building Block Co.

Scharf, C. R. & Co.

CHATTANOOGA—Chattanooga Tile Co.

MEMPHIS—Koehler Bros. & Franklin

Miller, Chas. R. Paving Co., 16 Madison

Miller Paving Co., 20 Madison

NASHVILLE—Adamant Stone & Roofing Co.,
111 S Front

Nashville Chemical Co., 921 N Front

Nashville Roofing & Paving Co., 811 Cherry

Tennessee Tile & Paving Co., 500 N Front

Tennessee Cement & Lime Co.

TEXAS.

GALVESTON—Galveston Cement Pipe Works,
2808 Market

HOUSTON—Humphreville, Wm. E., 704½ Main

UTAH.

SALT LAKE CITY—Harigan, Frank O., P. O.
Box 1167

VERMONT.

RUTLAND—Adams, A. L.

VIRGINIA.

HAMPTON—Richardson, R. H. & Son

NORFOLK—Addenbrook's, Jno. U. Sons, Monticello av c Freemason

Cement Construction Co., Villa Heights

Foster & Smith Co., 2 Plumc st

Kaufman, J. C. & Sons, Colby & Guilbert avs

Purnell, I. L., 419 S Clay av

Sands, U. S., 541 Granby

PORTSMOUTH—Flynn, Arthur F.

RICHMOND—McClay, Alex., 2400 Grove av

Veitch, Walter P., 214 S 6th

WASHINGTON.

SEATTLE—Barber Asphalt Paving Co., Mutual

Fritch & Co., Bunke bldg Life bldg.

Independent Asphalt Paving Co., Bailey bldg

Rotta, Oscar, 209 Cloverdale av

Sparger Concrete Co., Colman bldg

SPOKANE—Barber Asphalt Paving Co., Ex-

change Bank bldg

Miracle Concrete Block Co., Boston Block

McAllister, Jno. H., 111 Mill

WISCONSIN.

APPLETON—Driscoll & Gochnauer

EAU CLAIRE—Chappel Concrete & Tile Co.,

Larson, Andrew

Ross, Jos. W.

LA CROSSE—City Tile & Cement Co.

Devine, J. M.

La Crosse Sidewalk Co.

La Crosse Stone Co.

Marsden, J. H., Cement & Paving Co.

Molzahan & Lyons

MADISON—Mitchell Bros.

MILWAUKEE—Badger Cement Sidewalk Co.,

University bldg

Beckwith, Willard P., 712 29th

City Construction Co., Hathaway bldg

Cream City Sidewalk Co., 766 28th

Donahue & Co., Free Press bldg

Dreyer, Edward, 1008 6th

Ehlert Construction Co., Wells bldg

Felder & Rodau, 559 4th av

Firnhaber, Charles H., 1032 6th

Fus Bros. & Co., 598 22d av

Gerhardt, J. J. & Co., 2930 Lisbon av

Granite Sidewalk Co., 674 Forrest Home av

Milwaukee Sidewalk Co., 309 Matthews bldg

Milwaukee Concrete & Sidewalk Co., 414

Matthews bldg

Monsted, A. & Co., Pabst bldg

North Side Portland Cement Paving Co., 688

15th

Northwestern Tile Co., Builders' & Traders'

Nothohm, E. C. Co., Iron blk Exchange

South Side Cement Co., 258 Reed

Star Cement Sidewalk Co., 1117 Burleigh

Western Paving & Supply Co., 105 Grand av

Western Portland Cement Co., Plankinton

Bank bldg

Wisconsin Cement Construction Co., 873

Teutonia av

Whitnall & Rademaker Supply Co., Merrill

bldg

OSHKOSH—Marden, P. L. & Bro.

RACINE—Corse, J. W., 940 Racine

RIVER FALLS—Ulrich, F. M.

SHEBOYGAN—Scheele, Henry, Jr.

***Cement Bins (Steel)**SCAIFE, WM. B. & SONS CO., 221 1st
av, Pittsburg, Pa. (See adv. index, end of book)**Cement Dealers**

(See Masons' & Builders' Materials.)

Cement Driveways

(See also Cement & Concrete Pavements.)

SCHILLINGER BROS. CO., Toledo, O.
(See adv. index, end of book)**Cement Floors for Cellars,
Stables, Etc.**

(See Cement & Concrete Pavements.)

Cement for Mortar (White)Higginson Mfg. Co. ("Higginson," for Plaster-
ing & Finishing Walls), Newburgh, N. Y.**Cement Hollow Block Construc-
tion**Steel & Hollow Block Building & Construction
Co., 43 Eagle, Albany, N. Y., & 1123 B'way,
New York**Cement Importers**

See also Cement Importers, Belgian Portland.

Also Cement Importers, Danish Portland.

Also Cement Importers, English Portland.

Also Cement Importers, French Portland.

Also Cement Importers, German Portland.

Also Cement Importers, Keene's.

Also Cement Importers, Mannheim

Portland.

Also Cement Mfrs.

Also Cements, Hydraulic.

Also Cements, Keene's American.

Also Cements, Portland.

Also Cements, Rosendale.

(For Cement Dealers see Mason & Builders'
Materials.)

Alsen's American Portland Cement Works ("Al-

sen"), 45 B'way, New York

American Art Marble Co. ("Victoria" Keene's),

609 N American, Phila., Pa.

Balfour, Guthrie & Co., Los Angeles, Cal.

Behrend, F. (Stettin Bredower "Blue Eagle

Brand"; Stettin "Blue Anchor Brand"), 54

Front, New York

Berry & Ferguson, 159 Devonshire, Boston,

Mass.

Bryant, Edward, 30 Kilby, Boston, Mass.

Carolina Portland Cement Co., Charleston, S. C.

Davis, Paul A., Jr. (German Portland), 136 N

Water, Phila., Pa.

Ebert, Morris (Mannheimer Portland Cement),

119 S 4th, Phila., Pa.

Fleming & Co., 123 Liberty, New York

Fowler & McVitie, Galveston, Tex.

Franklyn & Ferguson, Cotton Exchange, New

York

French, Samuel H. & Co., 4th & Callowhill,

Phila., Pa.

Gilbert, C. M. & Co., Savannah, Ga.

Girvin & Eyre, 426 California, San Francisco,

Cal.

Haebler & Co., 79 Wall, New York

Hammill & Gillespie, 240 Front, New York

Hanley, Andrew Co., Savannah, Ga.

Hiller, Alfred Co., 534 Magazine, New Orleans,

La.

Holmberg, E. A. (Swedish Portland), 42 E 23d,

New York

Kelley Island Lime & Transport Co. (Lagerdor-

fer), Cleveland, O.

McBride, C. E. (Meier's Non-Staining), 151 3rd,

Louisville, Ky.

Marquardt, H. & Co. ("Stettiner S" & "Ger-

mania"), 35 S William, New York

Maryland Lime & Cement Co., Carroll bldg,

Baltimore, Md.

Meng, Anthony & Co. (Dagger Brand), 109 S

Front, Phila., Pa.

Miller, Clifford L. & Co. ("Victoria Keene's"),

125 E 23d, New York

Meyer, Wilson & Co., 210 Battery, San Fran-

cisco, Cal.

Mosle, H. & Co., Galveston, Tex.

Nash, W. G., 220 State, Boston, Mass.

NON-STAINING CEMENT CO. ("La-

farge" Stainless Portland), 156 5th av,

New York (See adv. index, end of book)

Parr, Wm. & Co., Galveston, Tex.

Savannah Paving Gravel Co., Savannah, Ga.

Southwestern Lime & Cement Co. (Black Cross),

Charleston, S. C.

Sparrow, Jno. E. (White's Globe, Hemmoor &

Misburger), 15 Whitehall, New York

Spreckles Bros. Commercial Co., Los Angeles,

Cal.

Thiele, E. ("Star," "Henry," "Royal Tin,"

"Royal Crown," "Dyckerhoff," "Heyn,"

"Hilton" & "B. S. & Co."), 99 John, New

York

Waldo Bros., 102 Milk, Boston, Mass.

**Cement Importers (Belgian
Portland)**

Balfour, Guthrie & Co. ("Giant"), San Fran-

cisco, Cal.

Hammill & Gillespie ("Royal Cross"), 240

Front, New York

Hanley, Andrew Co. (Gibbs & N. S.), Savan-

nah, Ga.

Maryland Lime & Cement Co., Carroll bldg,

Baltimore, Md.

Meng, Anthony (Dagger Brand), 109 S Front,

Philadelphia, Pa.

Parr, Wm. & Co., 2104 Strand, Galveston, Tex.

South Eastern Lime & Cement Co. (Blackcross),

276 E B'way, Charleston, S. C.

Thiele, E. ("Royal Crown"), 99 John, N. Y.

**Cement Importers (English
Portland)**

Balfour, Guthrie & Co., 316 California, San

Francisco, Cal.

Spreckels, J. D. & Bros. Co. ("Gillingham" &

"White Bros."), San Francisco, Cal.

Thiele, E. ("Hilton" & B. S. Co.'s), 99 John,

New York

**Cement Importers (French Port-
land)****NON-STAINING CEMENT CO. ("La-**

farge" Non-Staining), 156 5th av., New

York. (See adv. index, end of book)

**Cement Importers (German
Portland)**

Alsen's Amer. Portland Cement Works. (Alsen),

45 B'way, New York

Behrend, F. (Stettin Bredower, "Blue Eagle

Brand"—Stettin, "Blue Anchor Brand"),

54 Front, New York

Ebert, Morris (Mannheimer), 119 S 4th, Phila.,

Pa.

FRENCH, SAMUEL H. & CO., 4th &

Callowhill, Philadelphia, Pa. (See adv. in-

dex, end of book)

Hammill & Gillespie ("Bismarck"), 240 Front,

New York

Hanley, Andrew, Co., Savannah, Ga.

Hunkins-Willis Lime & Cement Co., 18th &

Austin, St. Louis, Mo.

Marquardt & Co. ("Stettiner's"), 35 S William,

New York

South Eastern Lime & Cement Co., Charleston,

S. C.

Thiele, E. (Dyckerhoff, Heyn & Star Stettin),

99 John, N. Y.

**Cement Importers (Mannheimer
Portland)**

Ebert, Morris, 119 S 4th, Phila., Pa.

Cement Mfrs.All firms under this heading unless otherwise
marked manufacture "Portland Cement."

* indicates Hydraulic Cement Mfrs. ** in-

dicates "Rosendale" Cement Mfrs.

(For Cement Dealers see Masons' & Builders'
Materials.)**ALABAMA.**

BIRMINGHAM—Carolina Portland Cement Co.

*Southern Cement Co. ("Alabama" brand,

"Purzzolan" & "Magnolia" brand "Purz-

zolan")

DEMOPOLIS—Alabama Portland Cement Co.

("Red Diamond" brand)

CALIFORNIA.

COLTON—California Portland Cement Co.

("Colton" brand). (See Los Angeles)

LOS ANGELES—California Portland Cement

Co.

NAPA JUNCTION—Standard Portland Cement

Co.

SAN FRANCISCO—California Cement & Lime

Co., Safe Deposit bldg

Cowell, H'y Lime & Cement Co.

Pacific Portland Cement Co., Rialto bldg

Standard Portland Cement Co.

STOCKTON—California Lime & Cement Co.

SUISUN CITY—Pacific Portland Cement Co.

Office, San Francisco

COLORADO.

DENVER—Portland Cement Co. ("Pike's Peak"

brand), Colorado bldg. Works: Portland,

Colo.

GEORGIA.

CARTERSVILLE—Cherokee Stone & Cement Co.
 Clifford Stone & Cement Co.
CEMENT—*Howard Hydraulic Cement Co.
 ("Red Keystone" brand)
ROCKMART—Southern States Portland Cement Co.
ROSSVILLE—*Chickamauga Cement Co. ("New South" brand)

ILLINOIS.

CHICAGO—Chicago Portland Cement Co. ("A. Chicago" brand), 801 Chicago Stock Exchange bldg
 German-American Portland Cement Works, (Owlcement), Marquette bldg; Works: La Salle, Ill.
 Illinois Central R. R. Co. (for their own consumption)
 Marquette Cement Mfg. Co., Marquette bldg. Works: La Salle, Ill.
UNIVERSAL PORTLAND CEMENT Co. ("Universal" Portland), The Rookery. (See adv. index, end of book)
LA SALLE—German-American Portland Cement Works. ("Owlcement")
 Marquette Cement Mfg. Co.
OGLESBY—Chicago Portland Cement Co. ("A. Chicago" brand)
UTICA—*Illinois Hydraulic Cement Mfg. Co.
 *Utica Cement Mfg. Co. ("Black Ball" brand)
 *Utica Hydraulic Cement Co. ("Clark" brand)

INDIANA.

BEDFORD—Bedford Portland Cement Co. ("Bedford" Portland)
CEMENTVILLE—*Banner Cement Co. ("Banner" brand, hydraulic)
CHARLESTOWN—*Indiana Cement Co. ("Lion" brand, hydraulic)
 *Standard Cement Co. ("Best 4" brand, hydraulic)
JEFFERSONVILLE—*Kentucky & Indiana Cement Co.
KIMMEL—Art Portland Cement Co. ("Parthenon," White Portland)
MITCHELL—Lehigh Portland Cement Co.
NEW ALBANY—*New Albany Cement Co. ("Crown" brand, hydraulic)
SELLERSBURG—*Clark County Cement Co. ("Hammer & Trowel" brand, hydraulic)
 *Golden Rule Cement Co. ("Arm & Hammer" brand, hydraulic)
 *Hoosier Cement Co. ("Hod & Shovel" brand, hydraulic)
 *Lonsville Cement Co. (Speeds "Star" brand, hydraulic, "Horseshoe" & S. S. brands)
 *Speed, J. B. & Co. Works: Watson, Ind.
 *United States Cement Co. ("Flag" brand, hydraulic)
SOUTH BEND—Indiana Stone, Lime & Cement Co.
STROH—Wabash Portland Cement Co. ("Wabash" brand)
SYRACUSE—Sandusky Portland Cement Co.
WATSON—*Speed, J. B. & Co. ("Medusa")

INDIAN TERRITORY.

ADA—Portland Cement Co.
DEWEY—Dewey Portland Cement Co.

IOWA.

MASON CITY—Iowa Portland Cement Co.

KANSAS.

FORT SCOTT—Fort Scott Hydraulic Cement Co. ("Four Star" brand, Hydraulic)
FREDONIA—Fredonia Portland Cement Co.
HAYS—Uncle Sam Portland Cement Co.
INDEPENDENCE—Independence Kansas Portland Cement Co.
 Western States Portland Cement Co.
IOLA—Iola Portland Cement Co. ("Iola" brand)
 Kansas Portland Cement Co.

KENTUCKY.

ASHLAND—Ashland Iron & Mining Co. (Slag)
LOUISVILLE—Kosmos Portland Cement Co. ("Kosmos" Portland)
 *Louisville Cement Co. (Speeds "Star" brand, hydraulic & "Horseshoe," & "S. S." brands)
 *Union Cement & Lime Co. ("Black Diamond" & "Anchor" brands, hydraulic), 421 W. Main

MARYLAND.

BALTIMORE—*Maryland Lime & Cement Co. ("Toltec" & "Patapasco" Slag), Carroll bldg
CUMBERLAND—*Cumberland & Potomac Cement Co.
 *Cumberland Hydraulic Cement & Mfg. Co. ("B. & H." brand, hydraulic)

MASSACHUSETTS.

BOSTON—FISKE & COMPANY (Inc.) (Jobbers in Portland, Rosendale, etc.), 161 Devonshire. (See adv. index, end of book)

MICHIGAN.

ALPENA—Alpena Portland Cement Co. ("Alpena" brand). Works: Fenton, Mich.
BELLEVUE—Burt Portland Cement Co.
BRONSON—Chanute Cement & Clay Product Co.
COLDWATER—Wolverine Portland Cement Co.
DETROIT—Aetna Portland Cement Co., Union Trust bldg
 Standard Portland Cement Co. ("Standard" brand), Hammond bldg
 Wabash Portland Cement Co. ("Wabash" brand), Union Trust bldg. Works, Stroh, Ind.
 White Star Portland Cement Co. ("White Star" brand), 24 Lafayette boul
ELK RAPIDS—Elk Cement & Lime Co. ("Elk Rapids" brand)
FENTON—Aetna Portland Cement Co.
 Egyptian Portland Cement Co.
JACKSON—Peninsular Portland Cement Co. ("Peninsular" brand)
MARLBORO—Great Northern Portland Cement Co. ("Great Northern")
 Western States Portland Cement Co. Works: Independence, Kan.
JONESVILLE—Omega Portland Cement Co. ("Omega" brand)
NEWAYGO—Newaygo Portland Cement Co. ("Gibraltar" brand)
UNION CITY—Peerless Portland Cement Co. ("Peerless" brand)
 Sillexold Portland Cement Co.
WYANDOTTE—Michigan Alkali Co. ("Wyandotte")

MINNESOTA.

AUSTIN—*Austin Cement Works ("Austin" brand, hydraulic), (Fowler & Pay)
MANKATO—*Mankato Cement Works ("Mankato" & "U. S. G.")

MISSOURI.

HANNIBAL—ATLAS PORTLAND CEMENT Co. Office: New York City. (See adv. opp. this page)
KANSAS CITY—Cowell, H'y Lime & Cement Co., Dwight bldg
 *Fort Scott Hydraulic Cement Co. ("Four Star" brand, hydraulic), 121 W 8th
 *Halliwell Cement Co., 312 E 9th
 *Kansas City & Fort Scott Cement Co. ("Double Star" brand, hydraulic), 121 W 8th
ST. LOUIS—Iola Portland Cement Co. ("Iola" brand), Lincoln Trust bldg. Works, Iola, Kan.
 St. Louis Portland Cement Co. ("Red Ring")

NEW JERSEY.

NEWARK—**Newark Lime & Cement Mfg. Co. (Newark & Rosendale)
PERTH AMBOY—New Jersey Portland Cement Co. ("Climax")
STEWARTVILLE—Edison Portland Cement Co. ("Edison" brand)
VULCANITE—Vulcanite Portland Cement Co. (Portland) (P. O. at Springfield, N. J.)

NEW YORK.

AKRON—*Akron Cement Works ("Red Star" brand, hydraulic)
 *Cummings Cement Co. (Akron & Oblisk)
ALBANY—*Helderberg Cement Co. ("Helderberg"), 78 State
BINNEWATER—**Consolidated Rosendale Cement Co. ("Brooklyn Bridge" brand)
BUFFALO—*BUFFALO CEMENT CO., (Ltd.) ("Buffalo" Hydraulic & Portland), 110 Franklin

Iroquois Portland Cement Co. ("Iroquois"), Prudential bldg
 *Newman, H. L. & W. C. ("Akron Star" brand), 50 River
 Niagara Cement Co. ("Puzzolan," Portland), Ellicott sq
 *Union Akron Cement Co. (Akron Star), 141 Erie

GALEDONIA—Iroquois Portland Cement Co. ("Iroquois" brand)

CASSADAGA—Continental Cement Co.
FAYETTEVILLE—*Bangs & Gaynor. (Hydraulic or Water Lime "Star")
 *Sheedy, Thos. W. (Hydraulic or Water Lime)

GLENS FALLS—Glens Falls Portland Cement Co. ("Iron Clad" & "Invicta" brands)

HOWES CAVE—*Helderberg Cement Co. ("Helderberg" brand)

HUDSON—Hudson Portland Cement Co.

ITHACA—Cayuga Lake Cement Co.

JORDAN—*American Cement Co.

KINGSTON—**Consolidated Rosendale Cement Co.

**Newark Lime & Cement Mfg. Co. ("Old Newark" brand, hydraulic)

LEFEVER FALLS—**New York Cement Co. ("Superior")

NEW YORK—Alpha Portland Cement Co. ("Alpha" brand), 21 Park row; Works: Alpha, N. J.

Alsen's Amer. Portland Cement Works, 45 B'way

ATLAS PORTLAND CEMENT CO. ("Atlas"), 30 Broad. (See adv. index, end of book)

**Consolidated Rosendale Cement Co. ("Brooklyn Bridge" brand), 26 Cortlandt.

Works, Binnewater, N. Y.

FISKE & COMPANY (Inc.) (Jobbers in Portland, Rosendale, etc.), Flat Iron bldg. (See adv. index, end of book)

Glens Falls Portland Cement Co. ("Iron Clad" & "Invicta" brands), 156 5th av

Hudson Portland Cement Co., 15 Park Row. Works, Hudson, N. Y.

Lawrence Cement Co. ("Dragon," "Hoffman"), 1 B'way

**New York Cement Co. ("Superior"), 17 Battery pl

Northampton Portland Cement Co. ("Northampton" brand), 1 Madison av. Works: Stockerton, Pa.

Pennsylvania Cement Co. ("Pennsylvania" brand), 26 Cortlandt

Virginia Portland Cement Co. ("Old Dominion" brand), 68 William. Works, Craigsville, Va.

Vulcanite Portland Cement Co., 949 B'way. Works: Vulcanite, N. J. (P. O. Springfield, N. J.)

Whitehall Portland Cement Co. ("Whitehall" brand), 156 5th av. Works, Cementon, Pa.

ROCHESTER—Wayland Portland Cement Co. ("Genesee" brand)

RONDOUT—(See Kingston)

SMITHS LANDING—Catskill Cement Co. ("Catskill" & "Trowel")

SYRACUSE—Millen, Thos. Co. ("Wayland")

WARNER—Empire Portland Cement Co. (Empire)

WAYLAND—Millen, Thos. Co. ("Wayland")
 Wayland Portland Cement Co. ("Genesee")

NORTH DAKOTA.

GRAND FORKS—Pembina Portland Cement Co. ("Pembina" brand, Portland & "Northern" brand, hydraulic)

OHIO.

BELLEFONTAINE—Buckeye Portland Cement Co. (Buckeye Portland)

CASTALIA—Castalia-Portland Cement Co. ("Tiger")

CINCINNATI—Cincinnati Portland Cement Co., 507 E Pearl

CLEVELAND—Diamond Portland Cement Co. ("Diamond" brand), Williamson bldg

Sandusky Portland Cement Co. ("Medusa" brand), Rockefeller bldg

Stewart Iron Co. (Made from Furnace Slag) (See Sharon, Pa.)

Struthers Furnace Co. (Struthers Portland), Citizens' bldg

IRONTON—Ironton Portland Cement Co. ("Limestone" brand)

LISBON—Ohio Cement Co.

MIDDLE BRANCH—Diamond Portland Cement Co. ("Diamond" brand)

LAFARGE CEMENT

OVER 25 YEARS ON THE MARKET

The only Cement that does not stain
LIMESTONE, MARBLE, GRANITE AND
TERRA COTTA

Used on nearly all the finest buildings in the
United States and Canada

Stucco Construction

By the use of Lafarge, a light, even color is obtained, free from brown and dirty stains, and from efflorescence, which mar the beauty of this work. Numbers of houses stuccoed with Lafarge have given finest results : : : :

LAFARGE IS A CHEMICALLY PURE CEMENT, VERY
FINELY GROUND AND OF LIGHT, EVEN COLOR : :

SEND FOR BOOKLET

Non-Staining Cement Company

156 FIFTH AVENUE, - NEW YORK, N. Y.

THE STANDARD AMERICAN BRAND.

ATLAS Portland Cement

ALWAYS UNIFORM.

Output for 1907 over 13,500,000 Barrels.

MANUFACTURED BY

THE ATLAS PORTLAND CEMENT COMPANY,

30 BROAD STREET, NEW YORK.

SEND FOR PAMPHLET ON CONCRETE CONSTRUCTION



PRESENT DAILY
OUTPUT 6,500
BARRELS



INCREASING
TO 17,000
BARRELS

PLANTS AT CHICAGO AND PITTSBURG

**A STANDARD PORTLAND
FOR UNIVERSAL USE**

UNIVERSAL PORTLAND CEMENT CO.
THE ROOKERY CHICAGO

RUSHESYLVANIA—Union Portland Cement Co.
SANDUSKY—Sandusky Portland Cement Co. ("Medusa")
STRUTHERS—Struthers Furnace Co. (Struthers Portland)
WELLSTON—Alma Cement Co.
 Lehigh Portland Cement Co. ("Lehigh" brand)
YOUNGSTOWN—Brier Hill Iron & Coal Co. ("Brier Hill" brand, "Puzzolan")

PENNSYLVANIA.

ALLENTOWN—Lehigh Portland Cement Co. ("Lehigh")
 Penn Allen Portland Cement Co. Works, Bath, Pa.
BATH—Bath Portland Cement Co.
 Penn Allen Portland Cement Co.
CEMENTON—Whitehall Portland Cement Co. ("Whitehall" brand)
COPLAY—ATLAS PORTLAND CEMENT
 Co. ("Atlas"), Office New York City. (See adv. opp. this page)
 Coplay Cement Mfg. Co. ("Saylor's" Portland)
EASTON—Alpha Portland Cement Co.
 Martins Creek Portland Cement Co. Works, Martins Creek, Pa.
EGYPT—*American Cement Co. ("Giant," "Egypt" and "Columbia")
 Reliance Cement Co. (Portland)
MARTINS CREEK—Alpha Portland Cement Co.
 Martins Creek Portland Cement Co. ("Krause" & "Martins Creek" brands)
NAZARETH—Dexter Portland Cement Co. ("Dexter" brand)
 Nazareth Cement Co. ("Nazareth" brand)
 *Phoenix Cement Co. ("Clover Leaf," brands of Portland & "I. X. L." brand hydraulic)
NEW CASTLE—New Castle Portland Cement Co.
NORTHAMPTON—ATLAS PORTLAND
 Cement Co. ("Atlas"), Office: New York City. Works: Coplay, Pa. (See adv. index, end of book)
PHILADELPHIA—Alma Cement Co. ("Alma"), Land Title bldg
 American Cement Co. ("Giant," "Egypt" & "Columbia"), Penna bldg; Works: Egypt, Pa., & Jordan, N. Y.
 *Bonneville Portland Cement Co. (Star Standard and Improved), Land Title bldg. Works, Siegfrieds, Pa.
 Borgner Cement Co., 234 N 23d
 Buckhorn Portland Cement Co., Stephen Girard bldg; Works: Mannheim, W. Va.
 Coplay Cement Mfg. Co. ("Saylor's" Portland), Penna. bldg. Works: Coplay, Pa.
 Edison Portland Cement Co. ("Edison" brand), Girard bldg. Works, Stewartville, N. J.
***FRENCH, SAMUEL H. & CO. (Sole**
 Agents for Dexter Portland), 4th & Gal-lowhill. (See adv. index, end of book)
 Lawrence Cement Co. ("Dragon"), Harrison bldg
 Nazareth Cement Co., Land Title bldg; Works: Nazareth, Pa.
 Northampton Portland Cement Co., 114 N Broad; Works: Stockton, Pa.
 Phoenix Cement Co. "Phoenix," "Sun-bridge" & "Clover Leaf" brands, Portland & "I. X. L." hydraulic, 929 Chestnut. Works, Nazareth, Pa.
 -Vulcanite Portland Cement Co. (Portland), Land Title bldg; Works: Vulcanite, Pa.
 Whitehall Portland Cement Co. ("Whitehall" brand), Land Title bldg. Works, Clementon, Pa.
PITTSBURG—Catsalia Portland Cement Co. ("Tiger" brand), Publication bldg
 Pittsburg Cement Co., 331 5th av
READING—Reading Cement Co. ("Reading" brand)
SANDTS EDDY—Quaker Portland Cement Co., (P. O. Easton)
SHARON—Stewart Iron Co. (Made from Furnace Slag)
SIEGFRIED—Bonneville Portland Cement Co. ("Bonneville" & "Improved Bonneville" brands, hydraulic)
 Lawrence Cement Co. of Pa. ("Dragon," "Paragon" & "Monarch" brands, Portland & "Shield" & "Improved Shield," hydraulic)
STOCKERTOWN—Northampton Portland Cement Co. ("Northampton" brand)
WAMPUM—Crescent Portland Cement Co. ("Crescent" brand)
YORK—Sandusky Portland Cement Co. ("Medusa")

SOUTH CAROLINA.

CHARLESTON—Carolina Portland Cement Co.

SOUTH DAKOTA.

YANKTON—Western Portland Cement Co. ("Yankton" brand)

TENNESSEE.

CHATTANOOGA—*Chickamauga Cement Co. ("New South" brand)
 *Howard Hydraulic Cement Co. ("Red Key-stone" brand). Works, Cement, Ga.
KNOXVILLE—Knoxville Cement Works
SOUTH PITTSBURG—Dixie Portland Cement Co.

TEXAS.

DALLAS—Iola Portland Cement Co. of Texas
SAN ANTONIO—*Alamo Cement Co. ("Alamo" brand)

UTAH.

SALT LAKE CITY—Portland Cement Co. of Utah ("Red Diamond")

VIRGINIA.

FORDWICK—Virginia Portland Cement Co.
LOCKER—*James River Cement Works (Inc.) ("James River" brand, hydraulic)

WASHINGTON.

KENDALL—Northwestern Portland Cement Co.

WEST VIRGINIA.

MANHEIM—Buckhorn Portland Cement Co.

WISCONSIN.

MILWAUKEE—*Consolidated Cement Co.
 *Milwaukee Cement Co. ("Keystone" brand, hydraulic), Plankinton bldg
 Western Portland Cement Co. ("Yankton" brand)

*Cement Mill Repair Parts

BETHLEHEM FOUNDRY & MACHINE
 Co., Front, South Bethlehem, Pa., & 149 B'way, New York. (See adv. index, end of book)

Cement Moulds

CEMENT MACHINERY CO. (Orna-
 mental), Jones bldg, Jackson, Mich. (See adv. index, end of book)
 Ulmer, J. C. & Co., 224 Champlain, Cleveland, Ohio

Cement Packers

(See Packing Machines, in Machinery.)

Cement Sidewalks & Cellars

(See Cement & Concrete Pavements; also Contractors, Asphalt Paving.)

*Cement Stains (Waterproof)

CABOT, SAMUEL, 141 Milk, Boston, Mass. (See adv. index & branch offices, end of book)

Cement Testing Machines

(See Testing Machines, Cement, in Machinery.)

Cements (Asbestos)

Alliance Asbestos Mfg. Co., Alliance O.
 Asbestos Mining & Mfg. Co., Providence, R. I.
 Bowen's, S. Son, 4th & Venango, Phila., Pa.
 Carey, Philip Mfg. Co., Lockland, O.
 Chicago Asbestos Mfg. Co., 78 W 22d pl, Chicago, Ill.
 Connors, Wm. Paint Mfg. Co., Troy, N. Y.
EHRET MAGNESIA MFG. CO., Land
 Title bldg, Phila., Pa. (See adv. index & branch offices, end of book)
 Excelsior Steel Furnace Co., 40 W Monroe, Chicago, Ill.
 Franklin Mfg. Co., Franklin, Pa.
 Gilmour, R. M. Mfg. Co., 105 John, New York

Johns, H. W.-Manville Co., 100 William, New York
 Keasbey & Mattison Co. (also Magnesite), Main Office & Works: Ambler, Pa.
KEYSTONE ASBESTOS CO., Fulton
 bldg., Pittsburg, Pa. (See adv. index, end of book)
 New Jersey Asbestos Co., 117 N Front, Camden, N. J., 52 Dey, New York
 New York Asbestos Mfg. Co., 80 John, New York
 Norristown Magnesia & Asbestos Co., Norristown, Pa.
 Nott, W. S. Co., Minneapolis, Minn.
 Oil City Asbestos Co., Oil City, Pa.
 Otley Mfg. Co. ("Eureka"), 855 N Winchester av, Chicago, Ill.
 Sall Mountain Asbestos Co., 68 S Canal, Chicago, Ill.
 Southern Roofing Co. (Fibrous, Atlanta, Ga.
 Union Fibre Co., Winona, Minn.
WATSON, H. F. CO., Erie, Pa. (See
 adv. index & branch offices, end of book)

Cements (Asphalt)

ACME ASPHALT ROOFING MFG. CO.
 (Roofing), 65 Mallory av, Jersey City, N. J. (See adv. index, end of book)
 American Asphaltum & Rubber Co., Women's Temple, Chicago, Ill.
 Boorman, T. Hugh, 7 Coenties st
 Indian Refining Co., Georgetown, Ky.
 Trinidad Asphalt Mfg. Co., 320 S. 21st, St. Louis, Mo.
 Warren Bros. Co., 93 Federal, Boston, Mass.
WATSON, H. F. CO., Erie, Pa. (See
 adv. index & branch offices, end of book)

Cements (Belt)

(See Belt Cement)

Cements (Brine Pipe)

McLennan Paint Co., Buffalo, N. Y.
 Tripp, Alan H., 3000 Indiana av, Chicago, Ill.

Cements (Cast Iron Soil Pipe)

Desper, H. A. Mfg. Co. ("Balsago" or for any purpose not subject to haet), Worcester, Mass.

Cements (Cast Steel Filler)

(See Cements, Iron & Steel)

Cements (Elastic)

Bowen's, S. Son, 4th & Venango, Phila., Pa.
 Capitol Asphalt Mastic Co., 310 Dublin ave., Columbus, O.
 Cole & Kuhls (Elastic Trowel), 719 3d av, Brooklyn, N. Y.
 Connors, Wm. Paint Mfg. Co., Troy, N. Y.
 Crescent Compound Mfg. Co. ("Crescent" Slat-ers'), Ellwood City, Pa.
 Harlem Roofing & Waterproofing Co., 553 E. 116th, New York, N. Y.
 Maire Paint Co. (All Minerals), 241 1st av, N. Minneapolis, Minn.
 Miller, Clifford L. & Co. ("Minwax"), 125 E 23d, New York
MILWAUKEE CORRUGATING CO.,
 Milwaukee, Wis. (See adv. index, end of book)
 Purcell, Hycent (Original), 441 Main, Cambridgeport, Mass.
RUTLAND FIRE CLAY CO., Rutland,
 Vt. (See adv. index & branch offices, end of book)
SMOOTH-ON MFG. CO. ("Smooth-
 N. J. (See adv. index & branch offices, end of book)
UNITED STATES GUTTA PERCHA
 Paint Co. (for Chimneys, Roofs, etc.), 12-30 Dudley, Providence, R. I. (See adv. index, end of book)
 Webster, W. F., Cambridgeport, Mass.
 Wilhelm, A. Co. (Aluminium), Reading, Pa.

Cements (Fire)

Behrend, F. (Importer), 54 Front, New York
MAURER, HENRY & SON, 420 E 23d,
 New York; Penna bldg, Phila., Pa. Works:
 Maurer, N. J. (See adv. Inside Front Cover)

*Cements (French Portland)

NON-STAINING CEMENT CO. ("La-
 farge" Stainless), 156 5th av, New York. (See adv. index, end of book)

Cements (Furnace & Stove)

Alliance Asbestos Mfg. Co. (Asbestos), Alliance, O.
 Bowen's, S. Son (Asbestos), N 4th & Venango, Philadelphia, Pa.
 Carey, Philip Mfg. Co. (Asbestos), Lockland, O.
 Colebrook, W. H. & Sons & Co., 1419 Orange, Syracuse, N. Y.
 Connors, Wm., Paint Mfg. Co., Troy, N. Y.
DIXON, JOS. CRUCIBLE CO. (For Repairing Stove & Range Linings), Jersey City, N. J. (See adv. index & branch offices, end of book)
EHRET MAGNESIA MFG. CO., Land Title bldg., Philadelphia, Pa. (See adv. index and branch offices, end of book)
 Harlem Roofing & Waterproofing Co., 553 E. 116th, New York, N. Y.
 Oil City Asbestos Co. (Asbestos), Oil City, Pa.
 Otley Mfg. Co. ("Eureka" for Jointing), 855 N Winchester av, Chicago, Ill.
 Phillips, Jno. B., 80 9th, Brooklyn, N. Y.
RUTLAND FIRE CLAY CO., Rutland, Vt. (See adv. index & branch offices, end of book)
 Stewart, W. H. Co., 81 Fulton, Brooklyn, N. Y.
 Wainwright, Jno. C. A. (Dry), Spring City, Pa.
WATSON, H. F. CO., Erie, Pa. (See adv. index & branch offices, end of book)
 Wilhelm, A. Co., Reading, Pa.
 Williams Stove Lining Co., Taunton, Mass.
 Wilson, Geo. W., 612 Myrtle av, Brooklyn, N. Y.

Cements (Graphite)

DIXON, JOS. CRUCIBLE CO. (For Repairing Incandescent Lamps), Jersey City, N. J. (See adv. index & branch offices, end of book)
 U. S. Graphite Co., Saginaw, Mich. (of book)

Cements (Hydraulic)

(See firms marked with a * under head of Cement Mfrs.)

***Cements (Iron Filler)**

SHELTON METALLIC FILLER CO. (For Blow Holes, etc.), Shelton, Conn. (See adv. opp. page)

SMOOTH-ON MFG. CO. (Smooth-On®), 572 Communipaw av, Jersey City, N. J. (See adv. below; branch offices, end of book)

Cements (Iron & Steel)

Bowen's, S. Son ("Pecora," for Blow Holes), N 4th & Venango, Phila., Pa.
 Clark Cast Steel Cement Co. ("Clark" Cast Steel for Blow Holes, etc.), Shelton, Conn.
OSBORN MFG. CO., 5401 Hamilton av, N. E., Cleveland, O. (See adv. index, end of book)
 Otley Mfg. Co. ("Eureka" Cast Iron Filler), 855 N Winchester Av, Chicago, Ill.
 Reid-Turabull Construction Co., 1206 Pennsylvania bldg. Philadelphia, Pa.
SHELTON METALLIC FILLER CO. (for Blow Holes, etc.), Shelton, Pa. (See adv. opp. page)
SMOOTH-ON MFG. CO. ("Smooth-On®"), 572 Communipaw av, Jersey City, N. J. (See adv. below)
 Turner, J. S. Mfg. Co. ("Hold Tight"), 398 Middlesex, Lowell, Mass.
UNITED STATES GUTTA PERCHA Paint Co. ("Rice's Adamant," for Blowholes in Casting Leaks in Boiler Piping, etc.), 12-30 Dudley, Providence, R. I. (See adv. index, end of book)
 Wilhelm, A. Co. ("Stick-to"), Reading, Pa.

Cements (Keene's American)

Acme Cement Plaster Co. ("Acme"), Century bldg., St. Louis, Mo.
 Best Bros. & Co. (Mfrs.), Medicine Lodge, Kan.
 Hunkins-Willis Lime & Cement Co. (Sole agents for U. S.), 18th and Austin, St. Louis, Mo.
 Person & Co. ("Victor Dove"), 160 5th av, New York

Cements (Keene's Imported)

AMERICAN ART MARBLE CO. ("Victoria"), 609 N American, Phila., Pa. (See adv. index, end of book)
FLEMING & CO., 123 Liberty, New York. (See adv. index, end of book)

Francklyn & Ferguson (English), Cotton Exchange bldg, New York
 Holmberg, E. A., 42 E 23d, New York
 King, J. B. & Co., 1 B'way, N. Y.
 Miller, Clifford L. & Co. ("Victoria"), 125 E 23d, New York
 Revis, Wm. H., 1123 Broadway, New York
 Windsor Cement Co., 446 Albany, Boston, Mass.

***Cements (Lafarge)**

NON-STAINING CEMENT CO., 156 5th av, New York. (See adv. index, end of book)

Cements (Locomotive & Boiler Front)

Frazer Paint Co. ("Frazer's" Non-Corrosive), Detroit, Mich.
 Otley Mfg. Co. ("Eureka" Joint), 855 N Winchester av, Chicago, Ill.
SMOOTH-ON MFG. CO. (Smooth-On®), 572 Communipaw av, Jersey City, N. J. (See adv. below; branch offices, end of book)
 Wheeler, Asahel Co. ("A-W" Steam Joint), 52 High, Boston, Mass.

***Cements (Magnesia)**

KEYSTONE ASBESTOS-MAGNESIA Co., Fulton bldg, Pittsburg, Pa. (See adv. index, end of book)

Cements (Magnesite & Chrome)

Harbison-Walker Refractories Co., Farmers' B'k bldg, Pittsburg, Pa. & 1133 B'way, N. Y.

***Cements (Meier's Non-Staining)**

McBRIDE, C. E., 151 3d, Louisville, Ky.

Cements (Paving)

Barrett Mfg. Co. (Coal Tar), Land Title bldg, Philadelphia, Pa.

PRODUCTS OF THE SMOOTH-ON MFG. CO.**Smooth-On Castings**

SMOOTH-ON CASTINGS, in *Yellow Labeled Cans*, is an Iron Cement for repairing blemishes, blow-holes or defects in iron or steel castings. For foundrymen.

Smooth-On Compound No. 1

SMOOTH-ON COMPOUND No. 1, in *Blue Labeled Cans*, is an Iron Cement for repairing leaks or breaks in castings, boilers, etc. Withstands fire, water, steam or oil. Applied to cold metal.

Smooth-On Elastic Cement

SMOOTH-ON ELASTIC CEMENT, in *Gray Labeled Cans*, a Hydraulic Iron Cement that stops leaks and corrosion. Unequaled for seams of boilers or tanks where caulking is difficult; for boiler patching, screw-thread joints, flanged joints, etc. Applied with a brush or trowel to hot or cold metal.

Smooth-On Joints

SMOOTH-ON JOINTS, in *Red Labeled Cans*, is a Metallic Cement for connecting bell-and-spigot cast iron pipe in place of caulking lead and in combination with lead.

Smooth-On Cement Packing

SMOOTH-ON CEMENT PACKING, A combination of Smooth-On, Iron Cement and Rubber. Unequaled for withstanding high temperatures and pressures, and is ALIVE when in contact with steam or water or air.

Smooth-On Corrugated Iron Gaskets

SMOOTH-ON CORRUGATED IRON GASKETS. The gasket is coated on both sides with Smooth-On Iron Elastic Cement. It makes the cheapest and best flanged joint for any pressure or temperature. It makes a perfect iron joint.

SMOOTH-ON MFG. CO., 572-574 Communipaw Ave., JERSEY CITY, N. J.

CHICAGO WAREHOUSE, 61 N. Jefferson St.

SAN FRANCISCO WAREHOUSE, 20 Sacramento St.

Cements (Pipe Joint)

Baker, W. T. ("Atlantic"), Jersey City, N. J.
 Callahan, Geo. & Co. ("Old Reliable"), 218 Front, N. Y.
 Clark Cast Steel Cement Co. ("Clark" Cast Steel), Shelton, Conn.
 Cook, Edw. W., 306 Pearl, N. Y.
 Crane Co. (Est. 1855) (The "Crane"), 519 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
 Crookstom, Wm., 185 Wooster, New York
 Desper, Henry A. Mfg. Co., Worcester, Mass.
DIXON, JOS. CRUCIBLE CO., Jersey City, N. J. (See adv. index & branch offices, end of book)
 Eagle Paint & Varnish Co. (Red Rustless), Works, Allegheny, Pa.
 Easton, Chas. P. ("Perfection," for Steam & Gas Fitters Only), Milford, N. H.
 Edgecombe Co. ("Red Cross," No-Leak), Indianapolis, Ind.
 Franklin Mfg. Co., Franklin, Pa.
 Frazer Paint Co. ("Frazer's" Non-Corrosive Pipe Joint Paste), Detroit, Mich.
 Gumbo Cement Co. ("Gumbo"), 104 N Clark, Chicago, Ill.
 Memphis White Lead Works, Memphis, Tenn.
 Otley Mfg. Co. ("Eureka" Steam Joint, etc.), 855 N Winchester av, Chicago, Ill.
 Sieben, Henry ("Neverbreak"), 305 W 12th, Kansas City, Mo.
SHELTON METALLIC FILLER CO., Shelton, Conn. (See adv. below)
SMOOTH-ON MFG. CO. ("Smooth-On"), 572 Communipaw av, Jersey City, N. J. (See adv. on preceding page)
 Starbuck, R. N. & Son, Hartford, Conn.
 United States Graphite Co. (Mexican Graphite), Saginaw, Mich.
 Walch & Wyeth ("Manganeseite" Paste), 87 Lake Chicago, Ill.
 Wheeler, Asabel Co. ("A-W" for Steam), 54 High, Boston, Mass.
 Wilhelm, A. Co., Reading, Pa.

Cements (Plumbers' Repair)

Wilhelm, A. Co., Reading, Pa.

Cements (Portland)

Aetna Portland Cement Co., Detroit, Mich.
 Alabama Portland Cement Co., Demopolis, Ala.
 Alamo Cement Co., San Antonio, Tex.
 Alma Cement Co., Land Title bldg., Phila., Pa., & 204 Dearborn, Chicago, Ill.
 Alpena Portland Cement Co., Alpena, Mich.
 Alpha Portland Cement Co. (Alpha), Alpha, N. J., & Harrison bldg, Philadelphia, Pa.
 Alsens Amer. Portland Cement Works, 45 B'way, N. Y.
 American Cement Co. ("Giant," "Egypt," & "Columbia"), Penna bldg, Phila., Pa.; Works: Egypt, Pa., & Jordan, N. Y.
 Art Portland Cement Co. ("Parebon" White), Kimmel, Ind.
ATLAS PORTLAND CEMENT CO. ("Atlas"), 30 Broad, N. Y. Works, Coplay, Pa., & Hannibal, Mo. (See adv. index & branch offices, end of book)
 Bath Portland Cement Co., Bath, Me.
 Bedford Portland Cement Co. ("Bedford"), Bedford, Ind.

Bonneville Portland Cement Co. (Star, Standard & Improved), Fidelity Mutual Life bldg, Phila., Pa.; Siegfrieds, Pa.
 Borgner, Cyrus Co., 23d above Race, Philadelphia, Pa.
 Brier Hill Iron & Coal Co., Youngstown, O.
 Bronson-Walton Co., The, Cleveland, O.; Works, Bronson, Mich.
 Buckeye Portland Cement Co. (Buckeye), Bellefontaine, O.
 Buckhorn Portland Cement Co., Manheim, W. Va.
BUFFALO CEMENT CO. (Ltd.), ("Buffalo"), 110 Franklin, Buffalo, N. Y.
 Burt Portland Cement Co., Bellevue, Mich.
 California Portland Cement Co., Los Angeles, Cal. Works, Colton, Cal.
 Canadian Portland Cement Co., Deseronto, Ontario, Canada
 Castalia Portland Cement Co. (Tiger), Pittsburg, Pa., & Castalia, O.
 Chicago Portland Cement Co., Chicago Stock Exchange bldg., Chicago, Ill.
 Colorado Portland Cement Co., Denver, Col. Works, Portland, Col.
 Coplay Cement Mfg. Co. ("Saylor's"), Penna. bldg., Phila., Pa., Works, Coplay, Pa.
 Cowell, H'y Lime & Cement Co., Dwight bldg, Kansas City, Mo.
 Crescent Portland Cement Co., Wampum, Pa.
 Cummings Cement Co. ("Obelisk" & "Akron"), Akron, N. Y.
 Dewey Portland Cement Co., Dewey, Ind. Ter.
 Dexter Portland Cement Co., Nazareth, Pa.
 Diamond Portland Cement Co. ("Diamond"), Cleveland, O. Works, Middle Branch, O.
 Edison Portland Cement Co., Girard Trust bldg., Philadelphia, Pa.
 Elk Cement & Lime Co., Elk Rapids, Mich.
 Empire Portland Cement Co. (Empire), Warner, N. Y.
 Fredonia Portland Cement Co., Fredonia, Kans.
FRENCH, SAMUEL H. & CO. ("Dexter," Selling Agts.), 4th & Callowhill, Phila., Pa. (See adv. index, end of book)
 German-American Portland Cement Works, 204 Dearborn, Chicago, Ill. Wks: La Salle, Ill.
 Glens Falls Portland Cement Co. (Iron Clad), Glens Falls, N. Y., & 156 5th av, N. Y.
 Great Northern Portland Cement Co. (the Great Northern), Marlboro, Mich.
 Hartranft, Wm. G. Cement Co. (Mfrs. Agents), Real Estate Trust bldg, Philadelphia, Pa.
 Helderberg Cement Co. (Helderberg & Portdale), Albany, N. Y.
 Hudson Portland Cement Co., Hudson, N. Y.
 Independence Kansas Portland Cement Co., Independence, Kan.
 Iola Portland Cement Co., Iola, Kan.
 Iola Portland Cement Co., of Tex., Dallas, Tex.
 Iowa Portland Cement Co., Mason City, Iowa
 Ironton Portland Cement Co., Ironton, O.
 Iroquois Portland Cement Co. Office & Works, Caledonia, N. Y.; Sales Office: Prudential bldg, Buffalo, N. Y.
 Jenkins & Reynolds Co. (Mfrs. Agts.), Chamber of Commerce bldg., Chicago, Ill.
 Kansas Portland Cement Co., Iola, Kan., & Independence, Kan.
 Kosmos Portland Cement Co. ("Kosmos"), Louisville, Ky.
 Lawrence Cement Co. ("Dragon," "Paragon" & "Monarch"), 1 B'way, New York
 Lehigh Portland Cement Co. ("Lehigh"), Allentown, Pa.
 Marquette Cement Mfg. Co., La Salle, Ill., Marquette bldg, Chicago

Maryland Lime & Cement Co. ("Tollie" & "Patapsco"), Carroll bldg, Baltimore, Md.
 Michigan Alkali Co. (Wyandotte Brand), Wyandotte, Mich.
 Millen, Thos., Co. (Wayland), Syracuse & Wayland, N. Y.
 National Mortar Co., 612 F. N. W., Washington, D. C.
 Nazareth Cement Co., Nazareth, Pa.
 New Castle Portland Cement Co., New Castle, Pa.
 New Jersey Portland Cement Co. (the Climax Brand), Perth Amboy, N. J.
 Newaygo Portland Cement Co., Newaygo, Mich.
 Niagara Cement Co. ("Puzzolan," Stainless), Ellicott sq., Buffalo, N. Y.
NON-STAINING CEMENT CO. ("Lafarge" "Non-Staining"), 156 5th av, New York. (See adv. index, end of book)
 Northampton Portland Cement Co., Stockertown, Pa.
 Northwestern Portland Cement Co., Kendall, Wash.
 Omega Portland Cement Co., Jonesville, Mich.
 Pacific Portland Cement Co., Rialto bldg, San Francisco; Works: Suisun City, Cal.
 Pembina Portland Cement Co., Grand Forks, N. Dak.
 Peninsular Portland Cement Co., Jackson, Mich.
 Penn Allen Portland Cement Co., Allentown, Pa. Works, Bath, Pa.
 Pennsylvania Cement Co. ("Pennsylvania" brand), 26 Cortlandt, N. Y.
 Phoenix Cement Co., Nazareth, Pa.
 Portland Cement Co., Ada, I. T.
 Portland Cement Co., Portland, Colo.
 Portland Cement Co. (of Utah), Salt Lake City, Utah
 Reading Cement Co., Reading, Pa. Works, Molltown, Pa.
 Reliance Cement Co., Egypt, Pa.
 St. Louis Portland Cement Co. ("Red Ring"), St. Louis, Mo.
 Sandusky Portland Cement Co. ("Medusa"), Sandusky, O.
 Sillex Portland Cement Co., Union City, Mich., and Chicago, Ill.
 Southern Cement Co., Birmingham, Ala.
 Southern States Portland Cement Co., Rockmart, Ga.
 Southwestern Portland Cement Co., Kansas City, Mo., and White Cliffs, Ark.
 Standard Portland Cement Co., Hammond bldg, Detroit, Mich.
 Standard Portland Cement Co., San Francisco, Cal., & Napa Junction, Cal.
 Stewart Iron Co. ("Stewart"), Perry Payne bldg, Cleveland, O. Works: Sharon, Pa.
 Struthers Furnace Co. (Struthers), Struthers, O.
 Uncle Sam Portland Cement Co., Hays, Kan.
UNIVERSAL PORTLAND CEMENT CO. ("Universal"), The Rookery, Chicago, Ill. (See adv. index, end of book)
 Virginia Portland Cement Co., Fordwick, Va.
 Vulcanite Portland Cement Co., Land Title bldg, Philadelphia, Pa.; Works: Vulcanite, N. J.
 Wabash Portland Cement Co. (Turkey Brand), Union Trust bldg., Detroit, Mich.
 Wayland Portland Cement Co., Wayland, Rochester and Perkinsville, N. Y.
 Western Portland Cement Co., Milwaukee, Wis.
 Western States Portland Cement Co., Independence, Kans.
 Whitehall Portland Cement Co., Land Title bldg, Phila. Works, Clementon, Pa.
 Wolverine Portland Cement Co., Coldwater, Mich.



Don't throw away Castings

Every time you do so you throw away profits—you make a certain percentage of the labor and equipment of your foundry count for nothing. You throw away your castings because they contain blow holes, cracks, uneven surfaces, etc.—and you don't think such work is up to your standard. All right! Just use

SHELTON METALLIC FILLER

and all defects will be remedied so perfectly that you or any one else will never know the casting had a flaw. Hurry now—send for a free sample and stop throwing away castings from the moment it arrives.

SHELTON METALLIC FILLER CO., Derby, Conn.

Cements (Rivet)

Bowen's, S. Son ("Pecora"), 4th & Venango, Philadelphia, Pa.
 Callahan, Geo. & Co. ("Callahan" Old Reliable), 218 Front, New York
 Gumbo Cement Co. ("Gumbo"), 104 N Clark, Chicago, Ill.
 Memphis White Lead Works, Memphis, Tenn.
 Otley Mfg. Co. ("Eureka"), 855 N Winchester av, Chicago, Ill.
SMOOTH-ON MFG. CO. ("Smooth-On"), 572 Communipaw av, Jersey City, N. J. (See adv. index & branch offices, end of book)
 U. S. Graphite Co. (Mexican Graphite), Saginaw Mich.
UNITED STATES GUTTA PERCHA Paint Co. ("Rice's," for Hulls of Iron or Steel Vessels), 12-30 Dudley, Providence, R. I. (See adv. index, end of book)

Cements (Roofing)

(See also Paints, Roofing.)

ACME ASPHALT ROOFING MFG. CO. (Asphalt), 65 Mallory av, Jersey City, N. J. (See adv. index, end of book)
 American Insulating Material Mfg. Co. (Granite Rock Asphalt), Alexandria, Ind.
ATLAS PAINT CO. (Ltd.), 2638 Liberty ave., Pittsburg, Pa. (See adv. index, end of book)
 Barrett Mfg. Co., Land Title bldg, Phila., Pa.
 Bowen's S. Son, 4th & Venango, Phila., Pa.
 Boyle Mfg. Co., Lafayette, Ind.
 Briggs, John & Co. ("Elastic," Anchor brand), 14 Washington, Boston, Mass.
 Callahan, Geo. & Co., 218 Front, New York
 Capitol Asphalt Mastic Co., 310 Dublin av, Columbus, O.
 Carey, Philip Mfg. Co., Lockland, O.
 Chicago Fire Proof Covering Co., 17 N Canal, Chicago, Ill.
CINCINNATI WALL TIE CO., 206 E. 5th, Cincinnati, O. (See adv. index, end of book)
 Clinton Metallic Paint Co., Clinton, N. Y.
 Connors, Wm. Paint Mfg. Co., Troy, N. Y.
 Crescent Compound Mfg. Co. ("Crescent" Slaters' Elastic), Ellwood City, Pa.
EHRET & MAGNESIA MFG. CO., Land Title bldg, Phila., Pa. (See adv. index & branch offices, end of book)
FRENCH, SAM'L. H. & CO., 4TH & Callowhill, Phila., Pa. (See adv. index, end of book)
 Gorsuch, T. M., 55 James, Cleveland, O.
 Harlem Roofing & Waterproofing Co., 553 E. 116th, New York, N. Y.
 Heppes Co. ("No Tar" Liquid), 45th av & Fillmore, Chicago, Ill.
 Hetzel, J. G. (Est. of), 67 Maine, Newark, N. J.
 Johns, H. W.-Manville Co., 100 William, New York.
 Lncas, Jno. & Co., 4th & Race, Phila., Pa.
 Maire Paint Co. (All Minerals), Minneapolis, Minn.
MILWAUKEE CORRUGATING CO. (Jobbers), Milwaukee, Wis. (See adv. index, end of book)
 Oil City Asbestos Co. (Asbestos), Oil City, Pa.
 Patent Vulcanite Roofing Co. ("Vulcanite"), 625 S Campbell av, Chicago, Ill.
 Phillips, Jno. B., 80 9th, Brooklyn, N. Y.
 Purcell, Hycent (Original), 441 Main, Cambridge, Mass.
RUTLAND FIRE CLAY CO., Rutland, Vt. (See adv. index, and branch offices, end of book)
 Stewart, W. H., Mfg. Co., 81 Fulton N. Y.
 Stowell Mfg. Co. (Asphalt), 114 to 134 Culver av, Jersey City, N. J.
 Trinidad Asphalt Mfg. Co. (Epure Trinidad Asphalt), 320 S. 21st St. Louis, Mo.
UNITED STATES GUTTA PERCHA Paint Co., 12-30 Dudley, Providence, R. I. (See adv. index, end of book)
 Victor Mfg. Co. (Elastic), Newburyport, Mass.
 Warren Bros. Co., 93 Federal, Boston, Mass.
 Warren Chemical & Mfg. Co., 17 Battery pl, New York
WATSON, H. F. CO., Erie, Pa. (See adv. index & branch offices, end of book)
 Webster, William F., Cement Co., Cambridgeport, Mass.
 Wilhelm, A. Co. (Para), Reading, Pa.
 Woolsey, C. A. Paint & Color Co., Jersey City, N. J.

Cements (Rosendale)

(See firms marked thus ** under head of Cement Mfrs.)

Cements (Rubber)

BOSTON BELTING CO., 260 Devonshire, Boston, Mass., & 100 Reade, New York. (See adv. index and branch offices, end of book)
 Continental Rubber Works, Erie, Pa.
 Diamond Rubber Co., Akron, O.
 Faultless Rubber Co., (Faultless), Ashland, O.
 Hartford Rubber Works Co., Hartford, Conn.
 Lyon Rubber Co., Akron, O.
 Manhattan Rubber Mfg. Co., 18 Vesey, New York
 Miller Rubber Mfg. Co., Akron, O.
 Morgan & Wright (Inc.) (Brush, Shoe, Steel, etc.), 226 Jefferson av, Detroit, Mich.
 National Cement & Rubber Mfg. Co. ("High Pressure," "Red Cross," "Anchor" & "Pioneer"), Toledo, O.
 N. J. Car Spring & Rubber Co., Jersey City, N. J.
 New York Belting & Packing Co. (Ltd.), 91 Chambers, New York

Cements (Stainless Portland)

McBRIDE, C. E. (Meier's Non-Staining), 151 3d, Louisville, Ky.
 Morse, Frank E. Co. ("Morse's" White Puzzolona), 17 State, New York
 Niagara Cement Co. ("Puzzolana"), Ellicott sq, Buffalo, N. Y.
NON-STAINING CEMENT CO. ("Lafarge"), 156 5th av, New York. (See adv. index, end of book)

*Cements (Stone Setters)

HARRISON SUPPLY CO. ("Wonder"), 5 & 7 Dorchester av, ext., Boston, Mass. (See adv. index, end of book)

Cements (Stove)

(See Cements, Furnace & Stove)

Cements (Tire)

American Cement & Oil Co., 48 W Quincy, Chicago, Ill.
 Diamond Rubber Co. ("Titan"), Akron, O.
 Fisk Rubber Co., Chicopee Falls, Mass.
 Goodrich, B. F. Co. ("Goodrich"), Akron, O.
 Hartford Rubber Works ("Hartford"), 691 Park, Hartford, Conn.
 M. & M. Mfg. Co. ("M. & M."), Akron, O.
 National Cement & Rubber Mfg. Co. ("High Pressure," "Pioneer," "Red Cross," "Anchor," "Auto Rubber" & "Auto Tire"), Toledo, O.
 Tingley, Chas. O. & Co., Rahway, N. J.

Cemetery Railings

AMOS, CHAS. & CO., 94 W Larned, Detroit, Mich. (See adv. index, end of book)
ANCHOR POST IRON WORKS, 41 Park row, New York
 Atlanta Wire & Iron Works Co., Atlanta, Ga.
 Barnum, E. T. Wire & Iron Works (Fencing), 82 Washington av, Detroit, Mich.
 Bataille, Achille & Co., 587 Hudson, New York.
CHAMPION IRON CO., Kenton, O. (See adv. index, end of book)
 Dufur & Co., 311 N Howard, Baltimore, Md.
 Enterprise Foundry & Fence Co., Indianapolis, Ind.
HICKEY, M. H. Wire & Iron Works, 54 Dearborn, Chicago, Ill.
 Howard & Morse, 45 Fulton, New York
JACKSON, WM. H. COMPANY, 29 E 17th (Union square), New York. (See adv. index, end of book)
 McLean, Jno., 440 Water, New York
 Manhattan Brass Co., 334 E 28th, N. Y.
 Mast, Foos & Co., Springfield, O.
MERRITT & CO., 1024 Ridge Av, Phila., Pa. (See adv. index, end of book)
PETER, F. N. & BRO., Newside, Pa. (See adv. index, end of book)
SMITH, F. P. WIRE & IRON WORKS, 100 Lake, Chicago, Ill. (See adv. index, end of book)
 Stewart Iron Works Co., 714 E. 3d, Cincinnati, O.
UNION EQUIPMENT BRONZE CO., 520 W 36th, N. Y. (See adv. outside stencil)
VULCAN CO., Detroit, Mich. (See adv. index, end of book)

Centers (Bench)

Brown & Sharpe Mfg. Co., Providence, R. I.
MORSE TWIST DRILL & MACHINE Co., New Bedford, Mass. (See adv. index, end of book)
 Pratt & Whitney Co., Hartford, Conn.
 Putnam Machine Co., Fitchburg, Mass.

Centers (Car Wheel)

Pittsburg Steel Foundry, Pittsburg, Pa.
Standard Steel Works, Harrison bldg., Philadelphia, Pa.
Taylor Iron & Steel Co., High Bridge, N. J.

Centers (Index)

Brown & Sharpe Mfg. Co., Providence, R. I.
 Cincinnati Milling Machine Co., Cincinnati, O.
 Garvin Machine Co., 137 Varick, N. Y.
 Gould & Eberhardt, Newark, N. J.
 Kempsmith Mfg. Co., Linus, c Woodward, Milwaukee, Wis.
 Newton Machine Tool Works (Inc.), 2343 Vine, Phila., Pa.
 Niles-Bement-Pond Co., 111 B'way, New York
 Pratt & Whitney Co., Hartford, Conn.
 Stockbridge Machine Co., Worcester, Mass.
 Waltham Watch Tool Co., Springfield, Mass.

*Centers (Lathe)

MORSE TWIST DRILL & MACHINE Co., New Bedford, Mass. (See adv. index, end of book)

Centers (Planer)

Fay & Scott, Dexter, Mass.
 Fitchburg Machine Works, Fitchburg, Mass.
 Hamilton Machine Tool Co., Hamilton, O.
 Harrington, Edwin, Son & Co., N 17th & Callowhill, Phila., Pa.
 Hendey Machine Co., Torrington, Conn.
 New Haven Mfg. Co., New Haven, Conn.
 Niles-Bement-Pond Co., 111 B'way, New York
 Pratt & Whitney Co., Hartford, Conn.
 Putnam Machine Co., Fitchburg, Mass.
 Walcott, Geo. D. & Son, Jackson, Mich.
 Whitcomb-Blaisdell Machine Tool Co., Worcester, Mass.

Centers (Sash & Transom)

Kupferle, Jno. C., 2d & Mound, St. Louis, Mo.
 Norwalk Lock Co., S Norwalk, Conn.
 Peck, Stow & Wilcox Co., Southington, Conn.
 Penn. Hardware Co., Reading, Pa.
 Pleuger & Henger Mfg. Co., 11th & Hebert, St. Louis, Mo.
 Reading Hardware Co., Reading, Pa.
 Russell & Erwin Mfg. Co., New Britain, Conn.
 Wrightsville Hardware Co., Wrightsville, Pa.

Centers (Shaper)

Hendey Machine Co., Torrington, Conn.
 Pratt & Whitney Co., Hartford, Conn.
 Walcott, Geo. D. & Son, Jackson, Mich.

Centers (Steel Arch)

York Bridge Co., York, Pa.

Centrifugals

(See also Hydro-Extractors.)

American Tool & Machine Co. ("Weston," Belt, Water & Electrical Driven; also for Laboratory or Experimental Use), 109 Beach, Boston, Mass.
AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)
 Remmers, B. & Sons (Special, for Starch & Chemical Factories), Bourse bldg, Phila., Pa.

Cesspools

Barber Mfg. Co., Ashtabula, O.
 Barnes Mfg. Co., Mansfield, O.
 Central Foundry Co., 116 Nassau, N. Y.
 Estabrook's, R. Sons ("Estabrook" Deep Seal), 204 W 1st S. B., Boston, Mass.
 Glenn Mfg. Co. (Bell Trap, etc.), St. Charles, Ill.
 Haines, Jones & Cadbury, 1136 Ridge av, Phila., Pa.
 Kupferle, Jno. C., 2nd & Mound, St. Louis, Mo.
 McDonald Bros., Columbus, O.

Madison Av Foundry Co., Cleveland, O
Modern Iron Works (with Ball Traps, etc.)
Quincy, Ill.
Northwestern Foundry & Supply Co., Detroit,
Mich.

PECK BROS. & CO., 125 Chestnut,
New Haven, Conn. (See adv. index, end of
book)

RUMSEY & CO. (Ltd.), Seneca Falls,
N. Y. (See adv. index & branch offices, end
of book)

Standard Sanitary Mfg. Co., Bessemer bldg,
Pittsburg, Pa.

Swett, A. L., Iron Works, Medina, N. Y.

Trenton Brass & Machine Co., Trenton, N. J.

Wolff, L. Mfg. Co., 117 W Lake, Chicago, Ill.

Chain Blocks

(See Hoists, Chain.)

Chain Links & Chain (Punched)

American Iron & Steel Mfg. Co., Lebanon, Pa.
Diamond Chain & Mfg. Co., Indianapolis, Ind.

Haskell, Wm. H. Mfg. Co., Pawtucket, R. I.

Hoopes & Townsend Co., 1330 Buttonwood,
Phila., Pa.

New Castle Forge & Bolt Co., New Castle, Pa.

Pawtucket Mfg. Co., Pawtucket, R. I.

Rhode Island Tool Co., Providence, R. I.

Transue & Williams Co. (Drop Forged Chain
Links), Alliance, O.

Union Drop Forge Co. (Conveyors Links), Chi-
cago, Ill.

Chain Machinery

(See Machinery, Chain)

Chain Saw Mortiser

New Britain Machine Co., New Britain, Conn.

Chain Stays

American Pin Co. (Brass), Waterbury, Conn.

BERNZ, OTTO, S 13th & S Orange av,

Newark, N. J. (See adv. index, end of book)

Clow, Jas. B. & Sons, 342 Franklin, Chicago,
Ill.

Columbus Brass Co., Columbus, O.

Detroit Sanitary Supply Co., Detroit, Mich.

Diamond Mfg. Co., Detroit, Mich.

DuBois, F. N., 245 9th, New York

Haines, Jones & Cadbury Co., 1136 Ridge av,
Philadelphia, Pa.

Haydenville Co., Haydenville, Mass.

Hoffman-Billings Mfg. Co., 178 Beeher, Mil-
waukee, Wis.

McDonald, A. Y. & Morrison Mfg. Co., Du-
buque, Ia.

Milwaukee Brass Mfg. Co., 241 Lapham, Mil-
waukee, Wis.

Mott, J. L. Iron Works, 118 5th av, N. Y.

Nelson, N. O. Mfg. Co., 8th & St. Charles, St.
Louis, Mo.

PECK BROS. & CO., 125 Chestnut,

New Haven, Conn. (See adv. index & branch
offices, end of book)

Reid, R. W., 272 Kent av Brooklyn, N. Y.

Sanitary Co., 7 Water, Cleveland, O.

Standard Sanitary Mfg. Co., Bessemer bldg,
Pittsburg, Pa.

Street & Kent Mfg. Co., 41 Fulton, Chicago, Ill.

Waterbury Mfg. Co., Waterbury, Conn.

Wolff, L. Mfg. Co., 117 W. Lake, Chicago, Ill.

Wolverine Brass Works, Grand Rapids, Mich.

Chains (Agricultural)

BRIDGEPORT CHAIN CO., Bridge-
port, Conn. (See adv. index, end of book)

Carr, Jos. B. Co., Troy, N. Y.

Columbus Chain Co., Columbus, O.

Diamond Chain & Mfg. Co., Indianapolis, Ind.

Enterprise Chain Works, Trenton, N. J.

Hayden-Corbett Chain Co., Columbus, O.

Jones & Laughlin Steel Co., Pittsburg, Pa.

McCoy-Linn Iron Co., Milesburg, Pa.

Mundorf, Geo. W., York, Pa.

New Castle Forge & Bolt Co., New Castle, Pa.

Robinson & Fosbrook, Fieldshoro, N. J.

ONEIDA COMMUNITY (Ltd.), Dept. G.

("Weldless," "American," "Niagara," "Eu-
reka"), Oneida, N. Y. (See adv. index &
branch offices, end of book)

Seneca Chain Co., Kent, O.

Standard Chain Co., 301 Ross, Pittsburg, Pa.

Starr, W. C. & Son, Richmond, Ind.

Todd Mfg. Co., New Albany, Ind.

Woodhouse Chain Works, Trenton, N. J.

*Chains (Aluminum)

BRIDGEPORT CHAIN CO., Bridge-
port, Conn. (See adv. index, end of hook)

*Chains (Anti-Spreader)

ONEIDA COMMUNITY, Ltd., Dept. G.
("Weldless," "Eureka"), Oneida, N. Y. (See
adv. index, & branch offices, end of hook)

*Chains (Arc Lamp Suspension)

ONEIDA COMMUNITY, Ltd., Dept. G.
("Weldless," "American," "Niagara," "Eu-
reka"), Oneida, N. Y. (See adv. index &
branch offices, end of hook)

Chains (Automobile)

(See Chains, Power Transmission)

Chains (Awning)

Diamond Chain & Mfg. Co., Indianapolis, Ind.

ONEIDA COMMUNITY (Ltd.), Dept. G.

("Weldless," "American"), Oneida, N. Y.

(See adv. index & branch offices, end of book)

Chains (Ball Bearing)

Monongahela Iron & Steel Co. (The Carteer),
Hope Church, Pa., & Pittsburg, Pa.

MURPHY, CHRISTOPHER & CO.

("Carter," Mfrs' Representatives), First
Nat'l Bank bldg, Chicago, Ill. (See adv.
index, end of hook)

Chains (Bicycle)

Baldwin Chain Mfg. Co., Worcester, Mass.

Diamond Chain & Mfg. Co., Indianapolis, Ind.

Lefever Arms Co., Syracuse, N. Y.

Morse Chain Co., Ithaca, N. Y.

Page-Storms Drop Forge Co., Springfield, Mass.

Chains (Binder)

(See also Chains, Log)

ONEIDA COMMUNITY, Ltd., Dept. G.

("American," "Niagara," "Eureka," "Weld-
less"), Oneida, N. Y. (See adv. index &
branch offices, end of book)

Chains (Bit)

ONEIDA COMMUNITY, Ltd., Dept. G.

("Niagara," "Weldless"), Oneida, N. Y.

(See adv. index & branch offices, end of book)

Chains (Block)

Columbus Chain Co., Columbus, O.

Diamond Chain & Mfg. Co., Indianapolis, Ind.

Enterprise Chain Works, Trenton, N. J.

Hayden-Corbett Chain Co., Columbus, O.

Lebanon Chain Works, Lebanon, Pa.

MacPherson, Willard & Co., Fieldshoro, N. J.

Monongahela Iron & Steel Co., Hope Church,
Pa., & Pittsburg, Pa.

MURPHY, CHRISTOPHER & CO.

(Mfrs' Representatives), First Nat'l Bank
bldg, Chicago, Ill. (See adv. index, end of
hook)

Robinson & Fosbrook, Fieldshoro, N. J.

Seneca Chain Co., Kent, Ohio

Standard Chain Co., 301 Ross, Pittsburg, Pa.

Taylor, S. G. Chain Co., 98 Indiana, Chicago,
Ill.

West End Rolling Mill Co., Lebanon, Pa.

Whitney Mfg. Co., Hartford, Conn.

Woodhouse Chain Works, Trenton, N. J.

Woodhouse, Samuel, 2 Stafford, Cleveland, O.

Chains (Brake)

Baker, Jas. H. Mfg. Co., Park bldg, Pittsburg,
Pa. Works: Tarentum, Pa.

Carr, Jos. B. Co., Troy, N. Y.

Columbus Chain Co., Columbus, O.

Enterprise Chain Works, Trenton, N. J.

Hayden-Corbett Chain Co., Columbus, O.

Lebanon Chain Works, Lebanon, Pa.

New Castle Forge & Bolt Co., New Castle, Pa.

Round, David & Son, 2287 B'way, Cleveland, O.

Seneca Chain Co., Kent, Ohio

Standard Chain Co., 301 Ross, Pittsburg, Pa.

Steel Car Forge Co., Frick bldg, Pittsburg, Pa.

Works, Ellwood City, Pa.

Taylor, S. G. Chain Co., 98 Indiana, Chicago,
Ill.

West End Rolling Mill Co., Lebanon, Pa.

Woodhouse Chain Works, Trenton, N. J.

Woodhouse, Samuel, 2 Stafford, Cleveland, O.

Wyatt, Thos. Mfg. Co. (Hand Made), Provi-
dence, R. I.

Chains (Brass)

Bliss, A. H. Co. (Small), North Attleboro, Mass.

Bridgeport Brass Co., Bridgeport Conn., & 19
Murray, New York

BRIDGEPORT CHAIN CO., Bridge-

port, Conn. (See adv. index, end of book)

Diamond Chain & Mfg. Co., Indianapolis, Ind.

Enterprise Chain Works, Trenton, N. J.

Hale Bros., 42 Lagrange, Worcester, Mass.

HUNGERFORD, U. T. BRASS & COP-

per Co. (Mfrs' Agents), 497 Pearl, N. Y.

Phoenix Hardware Mfg. Co., Homer, N. Y.

Plume & Atwood Mfg. Co., Waterbury, Conn., &
29 Murray, N. Y.

Rome Brass & Copper Co., Rome, N. Y.

Smith & Egge Mfg. Co. (Cable), Bridgeport,
Conn.

Steele & Johnson Mfg. Co., Waterbury, Conn.

Turner & Seymour Mfg. Co., Torrington, Conn.

Waterbury Brass Goods Corporation, Water-
bury, Conn.

Chains (Breast)

(See Chains, Coil.)

Chains (Breeching)

(See Chains, Coil.)

Chains (Cable & Marine)

Bradlee & Co., 726 Richmond, Phila., Pa.

Carr, Joseph B. Co., Troy, N. Y.

Columbus Chain Co. (Close & Stud Link), Co-
lumbus, O.

Diamond Chain & Mfg. Co., Indianapolis, Ind.

Enterprise Chain Works, Trenton, N. J.

Hayden-Corbett Chain Co., Columbus, O.

Jones & Laughlin Steel Co., Pittsburg, Pa.

Lebanon Chain Works, Lebanon, Pa.

Monongahela Iron & Steel Co. ("Carter" Ball
Bearing), Hope Church, Pa.

MURPHY, CHRISTOPHER & CO.

(Mfrs' Representatives), First Nat'l Bank
bldg, Chicago, Ill. (See adv. index, end of
book)

Round, D. & Son, 2287 B'way, Cleveland, O.

Seneca Chain Co., Kent, Ohio

Standard Chain Co., 301 Ross, Pittsburg, Pa.

West End Rolling Mill Co., Lebanon, Pa.

Woodhouse Chain Works, Trenton, N. J.

Wyatt, Thos. Mfg. Co. (Hand Made), Provi-
dence, R. I.

Chains (Car Brake)

(See Chains, Brake.)

*Chains (Car Fender)

ONEIDA COMMUNITY, Ltd., Dept. G.

("Weldless," "American," "Niagara," "Eu-
reka"), Oneida, N. Y. (See adv. index &
branch offices, end of book)

Chains (Coal Mine & Quarry)

(See Chains, Crane; also Chains, Dredging.)

Chains (Coil)

Bradlee & Co., 726 Richmond, Phila., Pa.

BRIDGEPORT CHAIN CO. ("Tri-

umph," "Brown" & "Perfection"), Bridge-

port, Conn. (See adv. index, end of hook)

Columbus Chain Co. (Common Proof "B.B."

"B.B.B."), Columbus, O.

Greystone Mfg. Co., Greystone, Conn.

Hayden-Corbett Chain Co., Columbus, O.

Jones & Laughlin Steel Co., Pittsburg, Pa.

Kentucky Chain Co., Frankfort, Ky.

JEFFREY MFG. CO., Columbus, O.

(See adv. index & branch offices, end of hook)

McKay, Jas. Co., Germania Bank bldg, Pitts-
burg, Pa.

MacPherson, Willard & Co., Fieldshoro, N. J.

Monongahela Iron & Steel Co., Pittsburg, Pa.

Mundorf, Geo. W., York, Pa.

MURPHY, CHRISTOPHER & CO.

(Mfrs' Representatives), First Nat'l Bank
bldg, Chicago, Ill. (See adv. index, end of
book)

New Castle Forge & Bolt Co., New Castle, Pa.
ONEIDA COMMUNITY (Ltd.), Dept. G.
 ("Weldless," "American," "Niagara," "Eureka"), Oneida, N. Y. (See adv. index & branch offices, end of book)
 Round, D. & Son, (sizes $\frac{1}{8}$ to $2\frac{1}{2}$ -inch), 2287 B'way, Cleveland, O.
 Seneca Chain Co., Kent, Ohio
 Standard Chain Co., 301 Ross, Pittsburg, Pa.
 Starr, W. C. & Son, Richmond, Ind.
 Steel Car Forge Co. (Proof), Frick bldg, Pittsburg, Pa.
 Taylor, S. G. Chain Co., 98 Indiana, Chicago.
 Todd Mfg. Co., New Albany, Ind. Ill.
 West End Rolling Mill Co., Lebanon, Pa.
 Woodhouse Chain Works, Trenton, N. J.
 Woodhouse, Samuel (sizes 3-16 to 2-inch), 4 Stafford, Cleveland, O.

Chains (Copper)

BRIDGEPORT CHAIN CO., Bridge-
 port, Conn. (See adv. below)
 Diamond Chain & Mfg. Co., Indianapolis, Ind.

Chains (Cow Tie)

BRIDGEPORT CHAIN CO., Bridge-
 port, Conn. (See adv. below)
 Enterprise Chain Works, Trenton, N. J.
 McCoy-Linn Iron Co., Milesburg, Pa.
 Mundorf, Geo. W., York, Pa.
 New Castle Forge & Bolt Co., New Castle, Pa.
ONEIDA COMMUNITY (Ltd.), Dept. G.
 (Weldless, "American," "Niagara," "Eureka"), Oneida, N. Y. (See adv. index & branch offices, end of book)
 Seneca Chain Co., Kent, Ohio of book)
 Standard Chain Co., 301 Ross, Pittsburg, Pa.
 Woodhouse Chain Works, Trenton, N. J.

Chains (Crane)

Bradlee & Co., 726 Richmond, Phila., Pa.
 Carr, Joseph B. Co., Troy, N. Y.
 Columbus Chain Co., Columbus, O.
 Enterprise Chain Works, Trenton, N. J.
 Hayden-Corbett Chain Co., Columbus, O.
 Hoopes & Townsend Co., 1330 Buttonwood Phila., Pa.
 Jones & Laughlin Steel Co., Pittsburg, Pa.
 Lebanon Chain Works (Hand Made), Lebanon, Pa.
 McKay, Jas. Co., Germania Bank bldg, Pittsburg, Pa.
 MacPherson, Willard & Co., Fieldsboro, N. J.
 Monongahela Iron & Steel Co. ("Carter" Ball Bearing, "Monon" & "Misco"), Hope Church, & Pittsburg, Pa.
 New Castle Forge & Bolt Co., New Castle, Pa.
MURPHY, CHRISTOPHER & CO.
 (Mfrs' Representatives), First Nat'l Bank bldg, Chicago, Ill. (See adv. index, end of book)
 Newhall Chain, Forge & Iron Co. (Mfrs.' Agts.), 9 Murray, New York
 Robinson & Fosbrook, Fieldsboro, N. J.
 Round, D. & Son ($\frac{1}{8}$ to $2\frac{1}{2}$ -inch), 2287 B'way Cleveland, O.
 Seneca Chain Co., Kent, O.
 Standard Chain Co., 301 Ross, Pittsburg, Pa.
 Starr, W. C. & Son (Swedish Iron), Richmond Ind.
 Taylor, S. G. Chain Co., 98 Indiana, Chicago.
 West End Rolling Mill Co., Lebanon, Pa. Ill.
 Woodhouse Chain Works, Trenton, N. J.
 Woodhouse, Samuel, 4 Stafford, Cleveland, O.

Chains (Differential Pulley Block)

Columbus Chain Co., Columbus, O.
 Hayden-Corbett Chain Co., Columbus, Ohio.
 Robinson & Posbrook, Fieldsboro, N. J.
 Round, D. & Son, 2287 B'way, Cleveland, O.
 Standard Chain Co., 301 Ross, Pittsburg, Pa.
 West End Rolling Mill Co., Lebanon, Pa.
 Woodhouse Chain Works, Trenton, N. J.
 Woodhouse, Samuel, 4 Stafford, Cleveland, O.

Chains (Dog Lead)

Greystone Mfg. Co. (& Couplers, Greystone, Conn.
ONEIDA COMMUNITY (Ltd.), Dept. G.
 ("American," "Niagara," "Weldless"), Oneida, N. Y. (See adv. index & branch offices, end of book)
 Smith & Egge Mfg. Co., Bridgeport, Conn.
 Wire Goods Co., Worcester, Mass.

Chains (Drag)

Buhl Malleable Co., Detroit, Mich.
 Exeter Machine Works, Pittston, Pa.
JEFFREY MFG. CO., Columbus, O.
 (See adv. index & branch offices, end of book)
 West End Rolling Mill Co., Lebanon, Pa.
 Woodhouse Chain Works, Trenton, N. J.

Chains (Dredge)

Bradlee & Co., 726 Richmond, Phila., Pa.
 Carr, Jos. B. Co., Troy, N. Y.
 Columbus Chain Co., Columbus, O.
 Enterprise Chain Works, Trenton, N. J.
 Haskell, Wm. H. Mfg. Co. (punched link), Pawtucket, R. I.
 Hayden-Corbett Chain Co., Columbus, O.
 Hoopes & Townsend Co., 1330 Buttonwood, Phila. Pa.
JEFFREY MFG. CO., Columbus, O.
 See adv. index & branch offices, end of book)
 Lebanon Chain Works, Lebanon, Pa.
 Monongahela Iron & Steel Co. ("Carter" Ball Bearing, "Monon" & "Misco"), Hope Church, & Pittsburg, Pa.
MURPHY, CHRISTOPHER & CO.
 (Mfrs.' Representatives), First National B'k bldg, Chicago, Ill. (See adv. index, end of book)
 New Castle Forge & Bolt Co., New Castle, Pa.
 Newhall Chain, Forge & Iron Co. (Mfrs.' Agts.) Branded "Warwick", 9 Murray, New York
 Robinson & Fosbrook, Fieldsboro, N. J.
 Rhode Island Tool Co. (Drop Forged Link), Providence, R. I.
 Round, David & Son, 2287 B'way, Cleveland, O.
 Seneca Chain Co., Kent, Ohio
 Standard Chain Co., 301 Ross, Pittsburg, Pa.
 Taylor, S. G. Chain Co., 98 Indiana, Chicago. Ill.
 West End Rolling Mill Co., Lebanon, Pa.
 Woodhouse Chain Works, Trenton, N. J.
 Woodhouse, Samuel, 4 Stafford, Cleveland, O.

Chains (Elevator)

Hayden-Corbett Chain Co., Columbus, Ohio.
 Hoopes & Townsend Co. (Drop Forged), 1330 Buttonwood, Phila., Pa.

ONEIDA COMMUNITY (Ltd.), Dept. G.
 ("American," "Niagara," "Eureka," "Weldless"), Oneida, N. Y. (See adv. index & branch offices, end of book)
 Rhode Island Tool Co. (Drop Forged Link), Providence, R. I.
 West End Rolling Mill Co., Lebanon, Pa.
 Woodhouse Chain Works, Trenton, N. J.

Chains (Filler Gear)

West End Rolling Mill Co., Lebanon, Pa.

*Chains (Fire Hydrant)

ONEIDA COMMUNITY (Ltd.), Dept. G.
 (Weldless, "Niagara," "Eureka"), Oneida, N. Y. (See adv. index & branch offices, end of book)

*Chains (Furnace)

ONEIDA COMMUNITY (Ltd.), Dept. G.
 ("American," "Weldless"), Oneida, N. Y. (See adv. index & branch offices, end of book)

Chains (Galvanized Pump)

Douglas, W. & B., Middletown, Conn., & 83 John, New York
 Garland Nut & Rivet Co., Pittsburg, Pa.
 Schriver, O. P. & Co. ("I. X. L."), 214 Elm,
 Union Mfg. Co., New Britain, Conn., & 103 Chambers, New York

Chains (Halter)

BRIDGEPORT CHAIN CO., Bridge-
 port, Conn. (See adv. below)
 Covert Mfg. Co., W. Troy, N. Y.
 Enterprise Chain Works, Trenton, N. J.
 McCoy & Linn, Milesburg, Pa.
 Mundorf, Geo. W., York, Pa.
ONEIDA COMMUNITY (Ltd.), Dept. G.
 (Weldless, "American," "Niagara"), Oneida, N. Y. (See adv. index & branch Offices, end of book)
 Seneca Chain Co., Kent, O.
 Standard Chain Co., 301 Ross, Pittsburg, Pa.

Chains (Harness)

Columbus Chain Co., Columbus, O.
ONEIDA COMMUNITY (Ltd.), Dept. G.
 (Weldless, "American," "Niagara"), Oneida, N. Y. (See adv. index & branch offices, end of book)
 Seneca Chain Co. (All Kinds), Kent, O.
 Starr, W. C. & Son, Richmond, Ind.
 Todd Mfg. Co., New Albany, Ind.
 Woodhouse Chain Works, Trenton, N. J.

Chains (Hitching or Mine)

Christman Co., Massillon, O.
 Hayden-Corbett Chain Co., Columbus, Ohio.
 New Castle Forge & Bolt Works, New Castle, Pa.
 Woodhouse Chain Works, Trenton, N. J.

"TRIUMPH" CHAIN

THE ORIGINAL WELDLESS WIRE CHAIN

TWICE AS STRONG AT WELDED CHAIN.

IMMENSE VARIETY OF SIZES.

NOTE
 THAT
 LOCK
 JOINT

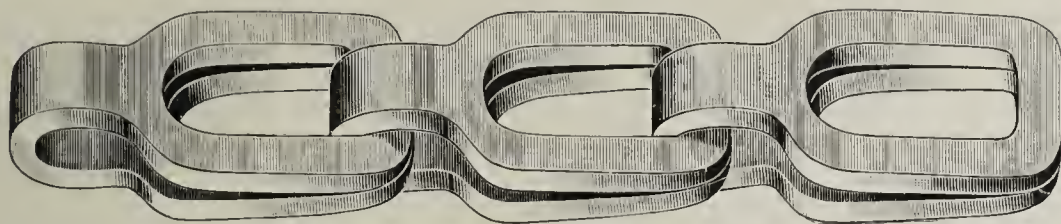


WE MAKE OTHER WIRE CHAINS.

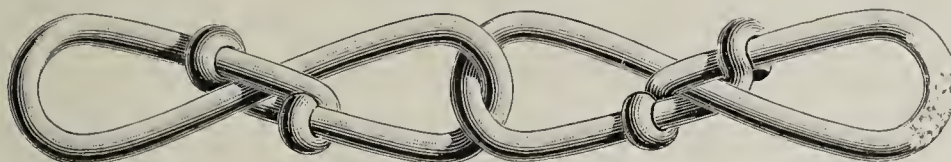
THE BRIDGEPORT CHAIN COMPANY,

Bridgeport, Conn.

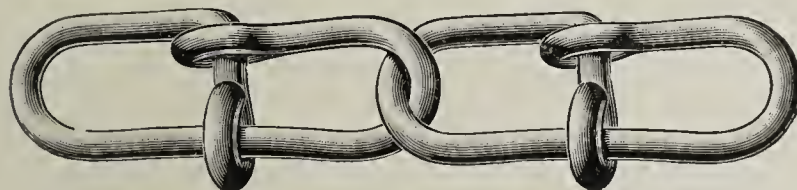
WELDLESS CHAIN



AMERICAN



NIAGARA



EUREKA

OVER HALF A HUNDRED SIZES FREE SAMPLES UPON REQUEST

===== WE FURNISH CHAINS FOR =====
AGRICULTURAL IMPLEMENTS

ARC LAMP SUSPENSIONS

PIPE HANGERS

BOATS

SIGNS

RAILROADS

STREET CAR FENDERS

HYDRANTS

WINDOW SASH

PADLOCKS

MACHINERY OF ALL KINDS

===== ETC., ETC. =====

WE HAVE A CHAIN FOR YOUR EVERY REQUIREMENT

ONEIDA COMMUNITY, LTD.

ONEIDA, N. Y.

Dept. G.

Branch, Niagara Falls, Ontario, Canada

NOTE WELL

Architects enjoy the special, constant and FREE USE of our BUREAU OF INFORMATION, as well as all advertisers and subscribers. : : : : : : : :

Whenever an Architect or Subscriber is at a loss to know the name and address of a Manufacturer of a given article he desires to specify or purchase, this Bureau will, on application, see that his means of access to such Manufacturer are rendered easy, accurate and IMMEDIATE. : : : : : :

S. E. HENDRICKS COMPANY

NOTICE

- ¶ To all advertisers in this publication desiring to send out circular matter, we will pay 15 CENTS for every envelope having upon same the address of any architect correctly taken from our list of architects and "NOT FOUND" BY THE P. O. DEPARTMENT.
- ¶ This offer holds good until January 1, 1908, provided however that after July 1, 1907, notice of intention to use such list be given one week in advance, so that additions and changes may be forwarded.

S. E. HENDRICKS CO., 74 LAFAYETTE STREET
NEW YORK

Chains (Hoist)

Columbus Chain Co., Columbus, O.
Diamond Chain & Mfg. Co., Indianapolis, Ind.
Hayden-Corbett Chain Co., Columbus, O.
Newhall Chain, Forge & Iron Co. (Mfrs.' Agts.)
(Branded "Warwick"), 9 Murray, New York
Seneca Chain Co., Kent, O.
Woodhouse Chain Works, Trenton, N. J.

Chains (Howe Bull)

Link Belt Co., W 39th cor Stewart av, Chicago, Ill., & 299 B'way, N. Y.
Hayden-Corbett Chain Co., Columbus, O.

*Chains (Hydrant Sets)

BRIDGEPORT CHAIN CO., Bridgeport, Conn. (See adv. on preceding page)

Chains (Ice Elevator)

Smith, Thos. & Co., Worcester, Mass.

Chains (Jack)

(See also Chains, Safety)

Bridgeport Brass Co., Bridgeport, Conn., & 19 Murray, New York
Columbus Chain Co., Columbus, O.
Corbin Screw Corporation (Iron & Brass, Single or Double), New Britain, Conn.
Hale Bros., 42 Lagrange, Worcester, Mass.
Hungerford, U. T., Brass & Copper Co. (Brass & Iron), 497 Pearl, N. Y.
Phoenix Hardware Mfg. Co., Homer, N. Y.
Plume & Atwood Mfg. Co., Waterbury, Conn.
Smith & Egge Mfg. Co. (Brass & Iron), Bridgeport, Conn.
Steele & Johnson Mfg. Co., Waterbury, Conn.
Turner & Seymour Mfg. Co., Torrington, Conn.
Waterbury Brass Goods Corporation, Waterbury, Conn.
Wire Goods Co., Worcester, Mass.

WRIGHT WIRE CO., Worcester, Mass. (See adv. index & branch offices, end of book)

*Chains (Jockey)

ONEIDA COMMUNITY (Ltd.), Dept. G. ("Niagara," Weldless), Oneida, N. Y. (See adv. index & branch offices, end of book)

*Chains (Kennel)

ONEIDA COMMUNITY (Ltd.), Dept. G. ("American," "Niagara," Weldless), Oneida, N. Y. (See adv. index & branch offices, end of book)

Chains (Laminated Hoisting)

Diamond Chain & Mfg. Co., Indianapolis, Ind.
Hunt, C. W. Co., 45 B'way, New York. Works: West New Brighton, S. I., N. Y.

Chains (Link)

(See Chain Links & Chains, Punched.)

Chains (Log)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

Baker, Jas. H., Park bldg, Pittsburg, Pa.; Works: Tarentum, Pa.

Carr, Jos. B. Co., Troy, N. Y.

Columbus Chain Co., Columbus, O.

Diamond Iron Works (Log & Cable Haul Up), Minneapolis, Minn.

Enterprise Chain Works, Trenton, N. J.

Hayden-Corbett Chain Co. (Ring & Hook), Columbus, O.

Hoopes & Townsend Co., 1330 Buttonwood, Phila., Pa.

Jones & Laughlin Steel Co., Pittsburg, Pa.

Kentucky Chain Co., Frankfort, Ky.

LANE MFG. CO., Montpelier, Vt. (See adv. index, end of book)

McCoy-Linn Iron Co., Milesburg, Pa.

Mnndorf, Geo. W., York, Pa.

Robinson & Fosbrook, Fieldsboro, N. J.

Round, David & Son, 2287 B'way, Cleveland, O.

Seneca Chain Co., Kent, Ohio

Starr, W. C. & Son, Richmond, Ind.

Standard Chain Co., 301 Ross, Pittsburg, Pa.

Taylor, S. G. Chain Co., 98 Indiana, Chicago, Ill.

Todd Mfg. Co., New Albany, Ind.

West End Rolling Mill Co., Lebanon, Pa.

Chains (Machinery)

Diamond Chain & Mfg. Co., Indianapolis, Ind.
ONEIDA COMMUNITY (Ltd.), Dept. G. ("American," "Niagara," "Eureka," Weldless), Oneida, N. Y. (See adv. index & branch offices, end of book)
Whitney Mfg. Co., 80 Huyshope, Hartford, Conn.

Chains (Marine Railway)

Bradlee & Co., 726 Richmond, Philadelphia, Pa.
Hayden-Corbett Chain Co., Columbus, O.
West End Rolling Mill Co., Lebanon, Pa.
Woodhouse Chain Works, Trenton, N. J.

*Chains (Padlock)

ONEIDA COMMUNITY (Ltd.), Dept. G. (Weldless, "American," "Niagara," "Eureka"), Oneida, N. Y. (See adv. index & branch offices, end of book)

*Chains (Pipe Hanger)

ONEIDA COMMUNITY (Ltd.), Dept. G. (Weldless, "American," "Niagara," "Eureka"), Oneida, N. Y. (See adv. index & branch offices, end of book)

Chains (Plumbers')

Bridgeport Brass Co., Bridgeport, Conn., & 253 B'way, New York
BRIDGEPORT CHAIN CO., Bridgeport, Conn. (See adv. on preceding page)
Corbin Screw Corporation, New Britain, Conn.
Diamond Chain & Mfg. Co., Indianapolis, Ind.
Glauber, M. & Co., 317 E 58th, N. Y.
Hungerford, U. T. Brass & Copper Co. (Brass & Nickel Plated), 497 Pearl, New York
Oneida Community (Ltd.), Kenwood, N. Y.
Phoenix Hardware Mfg. Co., Homer, N. Y.
Plume & Atwood Mfg. Co., Waterbury, Conn.
Rome Brass & Copper Co., Rome, N. Y.
Smith & Egge Mfg. Co., Bridgeport, Conn.
Steele & Johnson Mfg. Co., Waterbury, Conn.
Turner & Seymour Mfg. Co., Torrington, Conn.
Waterbury Brass Goods Corporation, Waterbury, Conn.

White, H. G., Niagara Falls, N. Y.
Wire Goods Co., Worcester, Mass.
Zogg, Nicholas, 732 E 143d, New York

Chains (Pole)

(See Chains, Coil.)

*Chains (Porch Swing)

ONEIDA COMMUNITY (Ltd.), Dept. G. (Weldless, "American," "Niagara," "Eureka"), Oneida, N. Y. (See adv. index & branch offices, end of book)

Chains (Pot)

Wire Goods Co. ("King's-2-Ring"), Worcester, Mass.

Chains (Power Transmission)

Baldwin Chain & Mfg. Co., Worcester, Mass.
Boston Gear Works, Norfolk Downs, Mass.
Diamond Chain & Mfg. Co., Indianapolis, Ind.
DODGE MFG. CO., Mishawaka, Ind.

(See adv. index & branch offices, end of book)

Duckworth Chain & Mfg. Co., Springfield, Mass.

JEFFREY MFG. CO., Columbus, O.

(See adv. index & branch offices, end of book)

Link Belt Co. ("Reuold Silent"), N 39th cor Stewart av, Chicago, Ill., & 299 B'way, New York

Miller, Charles E. ("Brampton's" Imported), 97 Reade, New York

Morse Chain Co. (High Speed, Silent Running), Ithaca, N. Y.

Rhode Island Tool Co. (Drop Forged Link), Providence, R. I.

Whitney Mfg. Co., Hartford, Conn.

Chains (Pump)

(See also Chains, Galvanized Pump)

Woodhouse Chain Works, Trenton, N. J.

Chains (Quarry)

(See Chains, Crane; also Chains, Dredging.)

Chains (Rafting)

Buhl Malleable Co., Detroit, Mich.
Hayden-Corbett Chain Co., Columbus, O.
New Castle Forge & Bolt Co., New Castle, Pa.
Robinson & Fosbrook, Fieldsboro, N. J.
Seneca Chain Co., Kent, Ohio
Woodhouse Chain Works, Trenton, N. J.

Chains (Railroad)

BRIDGEPORT CHAIN CO., Bridgeport, Conn. (See adv. index, end of book)
Carr, Jos. B. Co., Troy, N. Y.
Columbus Chain Co., Columbus, O.
Enterprise Chain Works, Trenton, N. J.
Hayden-Corbett Chain Co., Columbus, O.
Jones & Laughlin Steel Co., Pittsburg, Pa.
McKay, Jas. Co., Germania Bank bldg, Pittsburg, Pa.
Monongahela Iron & Steel Co., Hope Church, Pa. & Pittsburg, Pa.
MURPHY, CHRISTOPHER & CO. (Mfrs' Representatives), First Nat'l Bank bldg, Chicago, Ill. (See adv. index, end of book)

New Castle Forge & Bolt Co., New Castle, Pa.
O'Leary, Arthur J. & Sons Co. (Crossing & Switch), 130 Lake, Chicago, Ill.

ONEIDA COMMUNITY (Ltd.), Dept. G. (Weldless, "American," "Niagara," "Eureka"), Oneida, N. Y. (See adv. index & branch offices, end of book)

Round, David & Son, 2287 B'way, Cleveland, O.

Standard Chain Co., 301 Ross, Pittsburg, Pa.

Starr, W. C. & Son, Richmond, Ind.

Taylor, S. G. Chain Co., 98 Indiana, Chicago.

West End Rolling Mill Co. & Chain Works, Lebanon, Pa.

Woodhouse Chain Works, Trenton, N. J.

Woodhouse, Samuel, 4 Stafford, Cleveland, O.

Chains (Roller)

Baldwin Chain & Mfg. Co., Troy, N. Y.
Diamond Chain & Mfg. Co., Indianapolis, Ind.
JEFFREY MFG. CO., Columbus, O. (See adv. index & branch offices, end of book)
Link Belt Co. (Malleable Iron), W 39th & Stewart av, Chicago, Ill., & 299 B'way, New York
Whitney Mfg. Co., Hartford, Conn.

Chains (Safety)

(See also Chains, Jack; also Chains, Plumbers'.)
Baker, Jas. H. Mfg. Co., Park bldg, Pittsburg, Pa.

BRIDGEPORT CHAIN CO., Bridgeport, Conn. (See adv. on preceding page)

Columbus Chain Co., Columbus, O.

Hayden-Corbett Chain Co., Columbus, O.

ONEIDA COMMUNITY (Ltd.), Dept. G. (Weldless, "American"), Oneida, N. Y. (See adv. index & branch offices, end of book)

Phoenix Hardware Mfg. Co., Homer, N. Y.

Plume & Atwood Mfg. Co. (Brass), Waterbury, Conn., & 29 Murray, N. Y.

Robinson & Fosbrook, Fieldsboro, N. J.

Steel Car Forge Co., Pittsburg, Pa. Works, Elwood City, Pa.

Waterbury Brass Goods Corporation, Waterbury, Conn.

Wire Goods Co., Worcester, Mass.

When writing to firms
whose names appear
in this book please
mention

HENDRICKS'
COMMERCIAL
REGISTER.

Chains (Sash)

Atlantic Co., 109 S. 5th, Brooklyn, N. Y.
BRIDGEPORT CHAIN CO., Bridge-
 port, Conn. (See adv. below)
 Diamond Chain & Mfg. Co., Indianapolis, Ind.
GRANT PULLEY & HARDWARE CO., 35
 Warren, New York. (See adv. index, end
 of book)
MORTON, THOMAS, 169 Lafayette,
 New York
ONEIDA COMMUNITY (Ltd.), Dept. G.
 (Weldless, "American"), Oneida, N. Y. (See
 adv. index & branch offices, end of book)
 Phoenix Hardware Mfg. Co., Homer, N. Y.
 Pullman Mfg. Co., Rochester, N. Y.
 Smith & Egge Mfg. Co., Bridgeport, Conn.
 Wire Goods Co., Worcester, Mass.
 Zogg, Nicholas, 732 E 143d, New York

***Chains (Sign)**

ONEIDA COMMUNITY (Ltd.), Dept. G.
 (Weldless, "American," "Niagara," "Eure-
 ka"), Oneida, N. Y. (See adv. index &
 branch offices, end of book)

***Chains (Spreader)**

ONEIDA COMMUNITY (Ltd.), Dept. G.
 ("American," Weldless), Oneida, N. Y. (See
 adv. index & branch offices, end of book)

Chains (Sprocket Wheel)

Boston Gear Works, Norfolk Downs, Mass.
 Buhl Malleable Co., Detroit, Mich.
 Chain Belt Co., Milwaukee, Wis.
 Columbus Chain Co., Columbus, O.
 Diamond Chain & Mfg. Co., Indianapolis, Ind.
DODGE MFG. CO., Mishawaka, Ind.
 (See adv. index & branch offices, end of book)
 Ewart Mfg. Co., Indianapolis, Ind., & Monad-
 nock blk, Chicago, Ill.
 Hayden-Corbett Chain Co., Columbus, O.
JEFFREY MFG. CO., Columbus, O.
 (See adv. index & branch offices, end of book)
 Jones & Laughlin Steel Co., Pittsburg, Pa.
 Locke Steel Belt Co. (Tempered Steel, De-
 tachable), Bridgeport, Conn.
 Round, David & Son, 2289 B'way, Cleveland, O.
 Seneca Chain Co., Kent, Ohio
 Standard Chain Co., 301 Ross, Pittsburg, Pa.
 Taylor Iron & Steel Co., High Bridge, N. J., &
 1 B'way, New York
 West End Rolling Mill Co., Lebanon, Pa.
 Woodhouse Chain Works, Trenton, N. J.

Chains (Stay)

(See Chains, Wagon.)

Chains (Steam Shovel)

Hayden-Corbett Chain Co., Columbus, O.
 Lebanon Chain Works, Lebanon, Pa.
 Monongahela Iron & Steel Co. ("Carter" Ball
 Bearing), Hope Church, Pa., & Pittsburg,
 Pa.
MURPHY, CHRISTOPHER & CO.
 (Mfrs' Representatives), First Nat'l Bank
 bldg, Chicago, Ill. (See adv. index, end of
 book)
 New Castle Forge & Bole Co., New Castle, Pa.

Newhall Chain, Forge & Iron Co. (Mfrs.' Agts.)
 Brauded "Warwick"), 9 Murray, New York
 Seneca Chain Co., Kent, Ohio
 Standard Chain Co., 301 Ross, Pittsburg, Pa.
 West End Rolling Mill Co., Lebanon, Pa.

Chains (Steel Bushed)

Diamond Chain & Mfg. Co., Indianapolis, Ind.
JEFFREY MFG. CO., Columbus, O.
 See adv. index & branch offices, end of book)
 Link Belt Co., W 39th cor Stewart av, Chic-
 go, Ill. & 299 B'way, N. Y.

Chains (Stone)

Pollard, Jos. G. (Fitted with Steel Hooks), 141
 Raymond, Brooklyn, N. Y.

Chains (Stud Link)

Monongahela Iron & Steel Co. ("Carter,"
 "Monon" & "Misco"), Hope Church, Pa., &
 Pittsburg, Pa.
 Standard Chain Co., 301 Ross, Pittsburg, Pa.

***Chains (Tie Out)**

BRIDGEPORT CHAIN CO., Bridge-
 port, Conn. (See adv. below)

Chains (Trace)

Carr, Jos. B. Co., Troy, N. Y.
 Columbus Chain Co., Columbus, O.
 Kentucky Chain Co., Frankfort, Ky.
 Mundorf, Geo. W., York, Pa.
 Newhall Chain, Forge & Iron Co. (Mfrs.' Agts.)
 (Branded "Warwick"), 9 Murray, New York
 Round, David & Son, 2287 B'way, Cleveland, O.
 Seneca Chain Co., Kent, Ohio
 Standard Chain Co., 301 Ross, Pittsburg, Pa.
 Todd Mfg. Co., New Albany, Ind.
 West End Rolling Mill Co., Lebanon, Pa.
 Woodhouse, Samuel, 4 Stafford, Cleveland, O.

Chains (Transfer)

BARTLETT, C. O. & SNOW CO.,
 Cleveland, O. (See adv. index, end of book)
 Buhl Malleable Co., Detroit, Mich.
 Exeter Machine Works, Pittsford, Pa.
JEFFREY MFG. CO., Columbus, O.
 (See adv. index & branch offices, end of book)
 Link Belt Co., W 39th, cor Stewart av, Chic-
 go, Ill., & 299 B'way, N. Y.
 Moline Malleable Iron Co., St. Charles, Ill.

Chains (Transom)

Champion Safety Lock Co., Geneva, O.
 Reading Hardware Co., Reading, Pa.

Chains (Tubular)

Diamond Chain & Mfg. Co. (Tubular & Rivet),
 Indianapolis, Ind.
 Link Belt Co., W 39th & Stewart av, Chic-
 go, Ill., 299 B'way, N. Y.

Chains (Wagon)

Columbus Chain Co., Columbus, O.
 Hayden-Corbett Chain Co. (Stud Link), Colum-
 bus, O.
 McCoy-Linn Iron Co., Milesburg, Pa.
ONEIDA COMMUNITY (Ltd.), Dept. G.
 (Weldless "Niagara" "Eureka"), Oneida, N.
 Y. (See adv. index & branch offices,
 end of book)
 Seneca Chain Co., Kent, Ohio
 Standard Chain Co., 301 Ross, Pittsburg, Pa.
 Starr, W. C. & Son, Richmond, Ind.
 Todd Mfg. Co., New Albany, Ind.

Chains (Weldless Steel Wire)

BRIDGEPORT CHAIN CO., 964 Cres-
 cent av, Bridgeport, Conn. (See adv. index,
 end of book)

Chains (Well)

BRIDGEPORT CHAIN CO., Bridge-
 port, Conn. (See adv. below)
 Euterpise Chain Works, Trenton, N. J.
 McCoy-Linn Iron Co., Milesburg, Pa.
 Mundorf, Geo. W., York, Pa.
ONEIDA COMMUNITY (Ltd.), Dept. G.
 (Weldless "Niagara," "Eureka"), Oneida,
 N. Y. (See adv. index & branch offices, end
 of book)
 Seneca Chain Co., Kent, O.
 Standard Chain Co., 301 Ross, Pittsburg, Pa.

Chains (Windmill)

BRIDGEPORT CHAIN CO., Bridge-
 port, Conn. (See adv. below)
 Seneca Chain Co., Kent, O.
ONEIDA COMMUNITY (Ltd.), Dept. G.
 (Weldless "American" "Niagara" "Eure-
 ka"), Oneida, N. Y. (See adv. index &
 branch offices, end of book)
 Standard Chain Co., 301 Ross, Pittsburg, Pa.

Chains (Wrecking)

Carr, Jos. B. Co., Troy, N. Y.
 Columbus Chain Co., Columbus, O.
 Hayden-Corbett Chain Co., Columbus, O.
 Round, D. & Son, 2285 B'way, Cleveland, O.
 Seneca Chain Co., Kent, O.
 Standard Chain Co., 301 Ross, Pittsburg, Pa.
 Taylor, S. G. Chain Co., 100 Indiana, Chicago,
 Ill.

Chair Cane

(See Rattan & Reed Mfrs.)

Chair Machinery

(See Machinery, Chair.)

Chairs (Cast Iron)

(See Fountains, Vases, etc.; also Settees &
 Chairs, Iron.)

Chairs (Folding)

Bausmau, D. H. (Steel, High-Low Lawn), Baus-
 man, Pa.
BURROWES, E. T. CO., Portland, Me.
 (See adv. index, end of book)

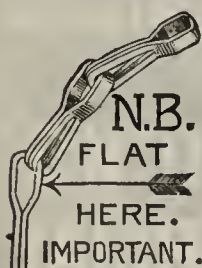
"MONARCH" SASH CHAIN

MADE FROM OUR SPECIAL BRONZE MIXTURE

Has the highest tensile strength.

Has the greatest wear resisting qualities

Easiest running, being flattened on the bend of the link.



IS THE BEST SASH CHAIN MADE

SAMPLES AND PRICES UPON APPLICATION

THE BRIDGEPORT CHAIN COMPANY, BRIDGEPORT, CONN.

Curtiss Bros. (Camp), Richland, N. Y.
Kalamazoo Sled Co., Kalamazoo, Mich.
Lattimer, W. H. & Sons (Canvas), Orwell, N. Y.
Marks Adjustable Chair Co. (Also Adjustable),
50 E. 29th, New York
Readsboro Chair Co., Readsboro, Vt.
Small, S. C. & Co. (on Wheels), 90 Canal, Boston, Mass.
Stevens Chair Co. (Adjustable), 141 7th, Pittsburgh, Pa.

Chairs (Invalid)

Bernstein Mfg. Co. (Reclining & Rolling, etc.),
3d & Westmoreland, Phila., Pa.
Burnham & Duggan Railway Appliance Co., 89
State, Boston, Mass.
Kalamazoo Sled Co. (Rocking & Reclining),
Kalamazoo, Mich.
Marks Adjustable Chair Co. (Wheel Chairs,
etc.), 50 E 29th, New York
Sackman, Walter L. ("Barnhar" all Steel Re-
clining & Swinging), Akron, O.
Sargeant Mfg. Co., Muskegon, Mich.
Small, S. C. & Co. (on Wheels), 90 Canal, Boston, Mass.

Chairs (Rail)

Bnda Foundry & Mfg. Co., Railway Exchange
bldg, Chicago, Ill.; Works: Harvey, Ill.
Burnham & Duggan Railway Appliance Co., 89
State, Boston, Mass.
Cornell, J. B. & J. M. Co. (Cast Iron), 26th &
11th av, New York
Eyster, Weiser & Co. (Ltd.), York, Pa.
Lorain Steel Co., Johnstown, Pa.
Penna. Steel Co., Steelton, Pa.
Pettibone, Mulliken & Co. (Samson Head
Chairs), 204 Dearborn, Chicago
Weir Frog Co., Beech & Highland av, Cincinnati, O.
Wharton, Wm., Jr., & Co. (Inc.), 25th & Washington av, Phila., Pa.

Chairs (Reclining)

Bernstein Mfg. Co. (Self-Propelling), 3d &
Westmoreland, Phila., Pa.
Comstock & McKee Mfg. Co., Greenfield, Ind.
Fletcher & Webster Furniture Co., Nashua,
N. H.
Marks Adjustable Chair Co. (Adjustable Reclining
Rocking), 50 E 29th, New York
Sargent Mfg. Co., Muskegon, Mich.
Scarritt, Comstock Co., B'way & Locust, St.
Louis, Mo.
Stevens Chair Co., 141 7th, Pittsburgh, Pa.

Chairs (Revolving)

Barnard & Simonds Co., Rochester, N. Y.
Bent, S. & Bro., Gardner, Mass.
Bethel Mfg. Co., Bethel, Me.
Bodenstein & Kummerle (Inc.), Phila., Pa.
Brooklyn Chair Co., Brooklyn, N. Y.
Buehner Chair Co., Evansville, Ind.
Burtch, Y. W. & Co., Jamestown, N. Y.
Carriage & Toy Co., Baltimore, Md.
Central Chair Co., Indianapolis, Ind.
Chipman, Geo. & Son, Baltimore, Md.
Cleveland Store Fixture Co., Cleveland, O.
Closterman, H., Cincinnati, O.
Columbus Aseptic Furniture Co., Columbus, O.
Conrades, J. H. Chair & Furniture Co., St.
Crocker Chair Co., New York
Crown Chair Mfg. Co., Evansville, Ind.
Culler Furniture Co., Williamsport, Pa.
Dearborn Desk Co., Chicago, Ill.
De Frehn, W. & Sons, Johnstown, Pa.
Delaware Chair Co., Delaware, O.
Dunn, Jno. A. & Co., Gardner, Mass.
Ehlers, Robert J. Co., New York
Finn Bros., New York
Ford & Johnson Co., Chicago, Ill.
Fort Smith Chair Co., Fort Smith, Ark.
Grand Ledge Chair Co., Grand Ledge, Mich.
Greenwood Bros. Co., Gardner, Mass.
Greenville Chair Co., Greenville, N. H.
Gunlocke, W. H. Chair Co., Wayland, N. Y.
Hale Co., New York
Hartwig & Kempner, Baltimore, Md.
Hechinger Bros. & Co., Baltimore, Md.
Heyward Bros. & Wakefield, Gardner, Mass.
Hubbard & Eldredge Co., Rochester, N. Y.
Johnson Chair Co., Chicago, Ill.
Karpen, S. & Bros., Chicago, Ill.
Kohn, Jacob & Josef, New York
Lewistown Chair Co., Lewistown, N. Y.
Logeman, F. H. Chair Mfg. Co., St. Louis, Mo.
Marble, B. L. Chair Co., Bedford, O.
Marble & Sbattuck Chair Co. (Office Desk),
Foster av nr Doan, Cleveland, O.

Marietta Chair Co., Marietta, O.
Masou, J. W. Co., New York
Milwaukee Chair Co., Milwaukee, Wis.
Murphy Chair Co. (Office), Harper av, Detroit,
Nichols & Stone, Gardner, Mass.
Otsego Chair Co., Otsego, Mich.
Ott, L. W. Mfg. Co., Indianapolis, Ind.
Parkersburg Chair Co., Parkersburg, W. Va.
Phoeux Chair Co., Sheboygan, Wis.
Pierce, S. K. & Co., Gardner, Mass.
Poughkeepsie Chair Co., Poughkeepsie, N. Y.
Retting Furniture Co., Grand Rapids, Mich.
Russell Bros. & Co., Phila., Pa.
Royal Metal Mfg. Co., 44 Clinton, Chicago, Ill.
Sherman Chair Co., Sherman, N. Y.
Sikes Chair Co., Buffalo, N. Y.
Sikes Co., Phila., Pa.
Sikes Consolidated Chair Co., New York
Southern Chair Co., High Point, N. C.
Taylor Chair Co., Bedford, O.
Thonet Bros., New York
Toledo Metal Furniture Co., Toledo, O.
Tonk Mfg. Co., Chicago, Ill.
Uhl Bros. Co. (Office), Toledo, O.
Union City Chair Co., Union City, Pa.
Webster Mfg. Co., Superior, Wis.
Weikel, Fred Chair Co., Louisville, Ky.
Weiss Chair Co., Rockport, Ind.
Williams & Co., Toledo, O.

Chalk Lines

Draper, W. H. & Son (Also Fish Lines), Troy,
N. Y.
Gladding, B. F. & Co. (Also Cotton, Linen &
Silk Fish Lines), S. Otsego, N. Y.
Ossawan Mills Co., Norwich, Conn.
SAMSON CORDAGE WORKS, 88
Broad, Boston, Mass. (See adv. index, end
of book)
SILVER LAKE CO., 78 Chauncey,
Boston, Mass. (See adv. index, end of book)

Chalk Mfrs.

American Crayon Co. (School, Tailors', Billiard,
Bowling, Foot, etc.), Sandusky, O., & Wal-
tham, Mass.
Currie, Chas. E., Baxter av, Louisville, Ky.
Sandusky Crayon Co., Sandusky, O.
Steward, D. M. Mfg. Co., East End, Chatta-
nooga, Tenn.
Stickney, Terrill & Co. (Importers), 31 Milk,
Boston, Mass.

*Chalk (Red Marking)

HARRISON SUPPLY CO. (for Stone
Trade), 5 & 7 Dorchester av Extension, Bos-
ton, Mass. (See adv. index, end of book)

Chandeliers

(See Gas & Electric Fixtures)

*Changeable Office and Loft Building Directories.

TABLET & TICKET CO., 87 Frank-
lin, Chicago, Ill., & 381 B'way, New York.
(See adv. index, end of book)

*Chaplet Pointer and Rod Cutter

SMITH, J. D. FOUNDRY SUPPLY CO.
("Poole's"), 1581 Columbus rd, N W, Cleve-
land, O. (See adv. index, end of book)

Chaplets (Foundry)

Cleveland Chaplet & Mfg. Co., Cleveland, O.
Crescent Machine Co., 1152 Trumbull av, De-
troit, Mich.
Gem Mfg. Co., Pittsburgh, Pa.
Fanner Mfg. Co., Pearl, Cleveland, O.
Lindsay, W. W. & Co. (Foundry), Phila., Pa.
Paxson, J. W. Co., 1021 N Delaware av, Phila.,
Pratt Chuck Co., Frankfort, N. Y.
Shanafelt Mfg. Co., Canton, O.

Chaplets (Radiator)

Crescent Machine Co. (Double Head Chaplets),
1152 Trumbull av, Detroit, Mich.
Haskell, Wm. H. Mfg. Co., Pawtucket, R. I.
Pawtucket Mfg. Co., Pawtucket, R. I.
Pratt Chuck Co., Frankfort, N. Y.

Chaplets (Wrought Iron)

Cleveland Chaplet & Mfg. Co., Cleveland, O.

Charcoal

Ballard, J. W., Binghamton, N. Y.
Bartley, John & Co., Mount Alton, Pa.
Berger Bros., 1217 State, Chicago, Ill.
Binney & Smith Co., 81 Fulton, N. Y.
Bradford Chemical Co., Bradford, Pa.
Brown, L. S. Charcoal Co. (Lump, Flour &
Granulated), Springfield, Mass.
Bush, John I., 4 Beach, New York
Consolidated Charcoal Co. (Ground & Granu-
lated), Williamsport, Pa.
Cummer, Diggins & Co. (Retort), Cadillac, Mich.
Desmond, F. C., Thompsonville, Mich.
Halligan, W. P. Co., Davenport, Ia.
Hillman, J. H. & Son, Frick bldg, Pittsburgh,
Pa.
Immerman, A. & Co., Thompsonville, Mich.
Kelly, Thos. P., 544 W 22d, New York
Long Island Charcoal Co., 78 N 6th, Brooklyn,
N. Y.
McCormick, J. S. Co., 25th & A. V. R'y, Pitts-
burg, Pa.
Manufacturers' Charcoal Co., Bradford, Pa.
Miller Bros., Colden, N. Y.
Montour Charcoal Co., Noel, Mich.
Newman, E. B. Charcoal Co., 548 W 25th, New
York
Obermayer, S., Co., 647 Evans, Cincinnati, O.
(See adv. index & branch offices, end of
book)
Onota Charcoal Mfg. Co., Onota, Mich.
OSBORN MFG. CO., 5401 Hamilton
av, N. E., Cleveland, O. (See adv. index,
end of book)
Rasmussen, S. P., 327 Stevens, St. Paul, Minn.
Russell Chemical Co., Russell, Pa.
SMITH, J. D. FOUNDRY SUPPLY CO.,
1581 Columbus rd, N W, Cleveland, O. (See
adv. index, end of book)
SPRINGFIELD FACING CO. (In
Every Form), Springfield, Mass. (See adv.
index, end of book)
Taylor, J. W., Summerville, S. C.
Williamsport Chemical Co. (Ground), Williams-
port, Pa.
Wolf, Penrose, Rockwood, Pa.
Wright, T. B. & Co., Mariners' & Merchants'
bldg., Phila., Pa.

Charcoal (Bone)

Binney & Smith Co., 81 Fulton, New York

Charging Sets (Automobile)

Dayton Electrical Mfg. Co. (Apple's), Dayton,
O.
Elwell-Parker Electric Co., Cleveland, O.
GENERAL ELECTRIC CO. (Arc Rec-
tifier), Schenectady, N. Y., & 44 Broad,
New York. (See adv. index & branch of-
fices, end of book)
Merriam-Abbott Co., 58 E Prospect, Cleveland,
Ohio
Richardson Engineering Co., Hartford, Conn.
Wagner Electric Mfg. Co., 2015 Locust, St.
Louis, Mo.

Chasers (Screw)

Brubaker, W. L. & Bros., Millersburg, Pa.
Card Mfg. Co., Mansfield, Mass.
Polk, A. J. & Son, Millersburg, Pa.

Check Blanks (Brass)

Jopson, Geo. W., Meriden, Conn.
Plume & Atwood Mfg. Co., Waterbury, Conn.
Rome Brass & Copper Co., Rome, N. Y.
Schwerdtle Stamp Co. (Key, Time & Pay),
Bridgeport, Conn.
Scovill Mfg. Co., Waterbury, Conn.
Waterbury Brass Goods Corporation, Water-
bury, Conn.

Check Perforators

Childs, S. D. & Co., 200 S Clark, Chicago, Ill.
Cummins, B. F. Co., 42 Jackson boul, Chicago,
Ill.
Pitt & Lienhardt ("S & P"), 213th & Harlem
River, New York, N. Y.
Pritchard-Strong Co., Rochester, N. Y.
Russell, Wm. F. ("Protectographs"), 5 Beek-
man, New York
Wesley Mfg. Co., 31 Beekman, New York

Check Protectors

American Novelty Co. ("Little Giant"), Syracuse, N. Y.
 Angell, E. E. & Co. ("Printamount"), 366 Atlantic, Boston, Mass.
 Defiance Machine Co. ("Defiance," "Twentieth Century"), Rochester, N. Y.
 Dorman, J. F. W. Co., 256 N Calvert, Baltimore, Md.
 Hill, B. B. Mfg. Co., 1020 New Market, Philadelphia, Pa.
 Hoggson & Pettus Mfg. Co., New Haven, Conn.
SMITH, R. H. MFG. CO., Springfield, Mass. (See adv. index, end of book)
 Stewart Check Protector, Borden blk., Chicago, Ill.
 Todd, G. W. Co., 21 Exchange, Rochester, N. Y.

Checks (Baggage)

American Railway Supply Co., 24 Park pl., New York
 Bennett Stamp & Stencil Works, 58 Griswold, Detroit, Mich.
 Brass Goods Mfg. Co., Nevins Union, Brooklyn, N. Y.
 Chicago Car Seal & Mfg. Co., 108 N Green, Chicago, Ill.
 Dennison Mfg. Co. (paper & cloth), 26 Franklin, Boston, & 15 John, New York
 Detroit Rubber Stamp Co., 96 Griswold, Detroit, Mich.
 Gibson, A. C. Co., 338 Wash'n, Buffalo, N. Y.
 Holl, T. & Co., 333 Main, Buffalo, N. Y.
 Ness, Geo. M., Jr., 61 Fulton, New York
 New York Stencil Works, 100 Nassau, New York
 Robbins, John Mfg. Co., 58 Kneeland, Boston, Mass.
 Sackman, Walter L. (Brass & Aluminum, for all purposes), Akron, O.
 Schwerdtle Stamp Co., 39 Fairfield av, Bridgeport, Conn.
 Spencer, Wm. W., 206 Longworth, Cincinnati, O.
 Stafford, Nelson Co., 67 Fulton, New York
 Tenney, J. F. Co., 152 Lake, Chicago, Ill.
 Volk Stamp & Stencil Co., 62 Griswold
 Wilcox, W. W. & Co., 201 Lake, Chicago, Ill.
 Woodman, R. Mfg. & Supply Co., 63 Oliver, Boston, Mass.

Checks (Factory Time)

American Railway Supply Co., 24 Park pl., New York
 National Falls Metal Stamping Co., Niagara Falls, N. Y.
 Woodman Mfg. & Supply Co., 63 Oliver, Boston, Mass.

Checks (Slot Machine)

Hanson, C. H. (Also Pay Checks, etc.), 44 S Clark, Chicago, Ill.

Checks (Trade)

Aluminum Mfg. Co., Two Rivers, Wls.
 American Railway Supply Co., 24 Park pl., New York
 Schwerdtle Stamp Co., Bridgeport, Conn.
 Swisher, R. D. Mfg. Co., 150 5th av, Chicago, Ill.

Cheese Box Machinery

(See Machinery, Cheese Box.)

Cheese Cloth

Devon Mills (Geo. S. Browne, Proptr.) (Fine & Coarse for all uses), Providence, R. I.

Chemical Apparatus

Boekel, Wm. & Co., 518 Vine, Phila., Pa.
 Braun, F. W. & Co., Los Angeles, Cal.
 Berge, J. & H., 95 John, N. Y.
 Caire, Justinian Co., 565 Market, San Francisco, Cal.
 Chicago Laboratory Supply & Scale Co., 39 W. Randolph, Chicago, Ill.
 Denver Fire Clay Co., Denver, Col.
 Elmer & Amend, 205 3d av, New York
 Feldt, Geo. D. & Co., 528 Arch, Phila., Pa.
 Golden Pressed & Firebrick Co., Denver, Col.
 Graham, Chas., Chemical Pottery Wks. ("Stone ware," Acid Proof), 986 Met. av, Brooklyn, N. Y.
 Greiner, Emil Co., 45 Cliff, New York
 International Instrument Co., 23 Church, Cambridge, Mass.

Knott, L. E. Apparatus Co., 15 Harcourt, Boston, Mass.
 Kohlbusch, Sophia M., 194 B'way, New York
QUEEN & CO. (Inc.), n. w. c Sth & Arch, Philadelphia, Pa. (See adv. index, end of book)
 Sargent, E. H. & Co., 143 E Lake, Chicago, Ill.
 Taunton Crucible Co. (Black Lead Crucibles, Stoppers, Nozzles, Covers, Dips, Basins, Stirrers, Domes, etc., for Assayers & Refiners), Office & Works, Taunton, Mass.
 Thomas, A. H. Co., 1200 Walnut, Phila., Pa.

Chemicalizers for Street-Alley Flushing

Thompson, Walter M., 835 W 5th, Cincinnati, Ohio

Chemicals

Alba Mfg. Co., Aurora, Ill.
 Ashley, T. C. & Co., 54 High, Boston, Mass.
 Barrett Mfg. Co., Phila., Pa.
 Billings-Clapp Co., 178 Freeport, Dor., Boston, Mass.
 Carbondale Chemical Co. (Ammonia & Chloride, etc.), Carbondale, Pa.
 Cooper, Chas. & Co., 194 Worth, N. Y.
 Doggett, Stanley, 101 Beekman, New York
 Dow Chemical Co., Midland, Mich. & Cleveland, O.
 Elmer & Amend (Jobbers, etc.), 205 3d av, New York
 Gabriel & Schall (Importers), 205 Pearl, New York
 General Chemical Co., 25 Broad, N. Y.
 Grasseill Chemical Co., Cleveland, Ohio, & 60 Wall, New York
 Harshaw, Fuller & Goodwin Co., 319 Electric bldg., Cleveland, Ohio
 Merrimac Chemical Co., 78 Broad, Boston, Mass.
 Roberts Chemical Co., Niagara Falls, N. Y.
SALMON, HAMILTON H. & CO., 88 Wall, New York
 Salomon, L. A. & Bro., 216 Pearl, New York
 Schoellkopf, Hartford & Hanna, Buffalo, N. Y.
 Stamford Mfg. Co. (Chemicals & Dyestuffs), 88 Wall, New York, & Stamford, Conn.
 Stoermer, F. R., 92 William, New York
 Talcott, C. H. & Co., Hartford, Conn.
 Taylor, Geo. F., 80 Pine, New York
 Thayer, E. M. & Co., 411 Atlantic av, Boston,

Chemicals (Battery)

(See Battery Chemicals)

Chemicals (Nickel & Electroplating)

Hanson & Van Winkle Co., 219 Market, New York
 Zucker, Levett & Loeb Co., 529 W 25th, New York

Chemicals & Gases (Liquefied)

Hecla Compressed Gas Co., Chelsea, Mass.
 Liquid Carbonic Co., 67 N Wells, Chicago, Ill.
 White, S. S., Dental Mfg. Co., 1130 Chestnut, Phila., Pa.

*Chemists

SCAIFE, WM. B. & SONS CO., 221 1st av, Pittsburg, Pa. (See adv. index, end of book)

Chimney Blocks (Perforated Radial)

(See also Chimneys of Perforated Radial Blocks)

National Pyrogranit Co., 17 Battery pl, New York. Works: South River, N. J.

Chimney Pipe

(See Flue Linings.)

Chimney Tops

American Sewer Pipe Co., Bessemer bldg, Pittsburgh, Pa.
 Baltimore Terra Cotta Works, Baltimore, Md.
 Buckeye Fire Clay Co., Uhrichsville, Ohio
 California Clay Mfg. Co., Los Angeles, Cal.
 Clawson, L. E. & Co., 1340 Market, San Francisco, Cal.
 Dee, Wm. E., Clay Mfg. Co., 169 Jackson boul, Chicago, Ill.

Dickey, W. S. Clay Mfg. Co., N. Y. Life bldg., Kansas City, Mo.
 Dunlap Mfg. Co. (unbreakable), Dunlap, Ia.
 Elmira Sewer Pipe & Fire Brick Co., Elmira, N. Y.
 Evens & Howard Fire Brick Co., 920 Market, St. Louis, Mo.
 Gladding, McBean & Co. (& Pipe), Rialto bldg, San Francisco, Cal. Works, Lincoln, Cal.
 Haydenville Co., Haydenville, O.
 Laclede Fire Brick Mfg. Co. Manchester & Sulphur avs, St. Louis, Mo.
 Little Falls Fire Clay Co., Little Falls, Wash.
 Macomb Sewer Pipe Co., Macomb, Ill.
 Menmouth Mining & Mfg. Co., Monmouth, Ill.
 New York Pottery Co., Fuller hldg, New York
 Pacific Clay Mfg. Co., Los Angeles, Cal.
 Reeve, Augustus, Camden, N. J.
 Pittsburg Sewer Pipe & Conduit Co., Pittsburg, Kan.
 Robinson Clay Product Co., Akron, O.
 Southern Terra Cotta Works, Atlanta, Ga.
 Stevens, H. Sons Co., Macon, Ga.
 Streater Clay Mfg. Co., Streater, Ill.
 Syracuse Stoneware Co. (Branch of Robinson Clay Product Co. of Akron, O.), 461 Fulton, Syracuse, N. Y.

*Chimney Tops (Galvanized)

INDIANAPOLIS STEEL ROOFING & Corrugating Co., Indianapolis, Ind. (See adv. index, end of book)

Chimney Tops (Revolving)

BERGER MFG. CO. Main Office & Works, Canton, O. (See adv. index & branch offices, end of book)
 Feld, Geo. A. Co., 164 E 129th, New York
 Iwan Bros., Streater, Ill.
MILWAUKEE CORRUGATING CO., Milwaukee, Wis. (See adv. index, end of book).
OSBORN MFG. CO. ("Pond's"), 5401 Hamilton av, N. E., Cleveland, O. (See adv. index, end of book)
 Powers Bros., Streater, Ill.

Chimney Tops (Slate)

(See Slate Stair Treads & Risers)

Chimneys (Concrete)

American Chimney Co. ("Stieler" System Reinforced Steel), Ashland blk, Chicago, Ill.
 Weber Steel-Concrete Chimney Co. (Reinforced Concrete), 204 Dearborn, Chicago, Ill.

Chimneys for Power Plants

(See Smokestacks, Steel; also Chimneys, Steel)

Chimneys (Lamp)

Lippincott Glass Co., Alexandria, Ind.
 Macbeth-Evans Glass Co., Pittsburg, Pa.
RODEFER, T. A. (Lime & Lead), Bel-laire, O. (See adv. index, end of book).

Chimneys (Mica)

Canton Mica Mfg. Co., Canton, O.
 Gleason, E. P. Mfg. Co., 37 Murray, New York
 Huse, Jos. & Son, 95 Blackstone, Boston, Mass.
 Mica Mfg. Co., 307 W B'way, New York
 North Carolina Mica Co., 84 North, Boston, Mass.
 Relchman, Geo., 1406 N 10th, Phila., Pa.
 Storrs Mica Co., Owego, N. Y.

Chimneys of Perforated Radial Blocks

(See also Chimneys Concrete, also Chimney Blocks Perforated Radial)
 Custodis, Alphons Chimney Construction Co., 99 Nassau, New York
 Heinicke, H. R. (Inc.), 105 5th av, New York
 Tatnall Engineering Co. ("Alphons Custodis"), Arcade bldg, Phila., Pa.

Chimneys (Steel)

(See also Smoke Stacks, Steel)

Aurora Boiler Works (Inc.), (Self-Supporting), Aurora, Ill.
 Birmingham Boiler Works, Birmingham, Ala.
 Chicago Bridge & Iron Works (Horace E. Horton, Prop.) (Self-Supporting), W. 105th & Throop, Chicago, Ill.

Coatesville Boiler Works (Self-Supporting), Coatesville, Pa.
 Frick Grate Bar Co. (Self-Supporting), 321 Chestnut, Philadelphia, Pa.
 Keeler, E. Co. (Self-Supporting), Williamsport, Pa.
KEWANEE BOILER CO., Kewanee, Ill., & 169 E Lake, Chicago, Ill. (See adv. index, end of book)
 Lindsay, W. W. & Co., 1502 Market, Phila., Pa.
 Melchmann Steel Construction Co. (Self-Supporting), Quincy, Ill.
 Novelty Steam Boiler Works (Triplett & Jennings) (Self-Supporting), 917 S Howard, Baltimore, Md.
PETROLEUM IRON WORKS CO., Washington, Pa., & Farmers' Bank bldg. Pittsburg, Pa. (See adv. index, end of book)
 Petty, J. K. & Co. (Lebanon Boiler Works) (Self-Supporting), 206 N 4th, Phila., Pa.; Works, Lebanon, Pa.
 Pollock, Wm. B. Co. (Self-Supporting), Youngstown, O.
REEVES BROS. CO. (Self-Supporting), Alliance, O. (See adv. below)

Ritter-Conley Mfg. Co. (Self-Supporting), Pittsburgh, Pa., & 111 B'way, New York
RUSSEL WHEEL & FOUNDRY CO. Detroit, Mich. (See adv. index, end of book)
 Treadwell, M. H. & Co., 90 West, New York
 Variety Iron & Steel Works Co., Cleveland, O.
 Wetherill, Robt. & Co. (Self-Supporting), Chester, Pa.

Chimneys & Shades (Incandescent Gas)

Clark Bros. Glass Mfg. Co., Trenton, N. J.
 Fostoria Glass Specialty Co. (Gas & Air-Hole Gas Chimneys), Fostoria, O.
 Gill Bros. Co., Steubenville, O.
 Gill & Co. (Inc.), 2237 E Thompson, Philadelphia, Pa.
 Gillinder & Sons, 135 Oxford, Philadelphia, Pa.
 Holophane Glass Co., 15 E. 32d, N. Y.
 Macbeth-Evans Glass Co., Pittsburg, Pa.
 Murray, J. J. & Co., 2103 Mt. Vernon, Philadelphia, Pa.
 Phoenix Glass Co., 13 Murray, N. Y.

*China Decorations

MEYERCORD CO. (Inc.), Chamber of Commerce bldg, Chicago, Ill. (See adv. index, end of book)

Chippers (Extract Wood)

Mitts & Merrill, Saginaw, Mich.

Chisels (Box)

Braunsdorf-Mueller Co., Elizabeth, N. J.
 Carver Tool Works, Spring Valley, N. Y.
 Drew C. & Co., Kingston, Mass.
 Humason & Beckley Mfg. Co. (Cast Steel), New Britain, Conn.
 Johnson, Wm. (Hedenberg Works), Newark, N. J.
 Krauter & Co., Newark, N. J.
 Vaughn & Bushnell Mfg. Co. ("V. & B" Solid Tool Steel Claw), 875 W Carroll av, Chicago, Ill.

Chisels (Brick)

ANDERSON, W. H. TOOL & SUPPLY CO., 14 Macomb, Detroit, Mich. (See adv. index, end of book)
 Atha Tool Co., Newark, N. J.
BERNZ, OTTO, S 13th & S Orange av., Newark, N. J. (See adv. index, end of book)
 Braunsdorf-Mueller Co., Elizabeth, N. J.
 Carver Tool Works, Spring Valley, N. Y.
 Collins Co., Collinsville, Conn., & 212 Water, New York
 Crescent Novelty Mfg. Co., St. Louis, Mo.
 Doble, Abner Co., 200 Fremont, San Francisco, Cal.
 Evansville Tool Works, Evansville, Ind.
 Marshalltown Trowel Co., Marshalltown, Iowa
 Plumb, Fayette R. (Inc.), Frankford, Phila., Pa.
 Stortz, Jno. T., 210 Vine, Philadelphia, Pa.
 Vaughn & Bushnell Mfg. Co. ("V. & B."), 875 W Carroll av, Chicago, Ill.

Chisels (Calking)

ANDERSON FORGE & MACHINE CO., 271 Guoin, Detroit, Mich. (See adv. index, end of book)
BERNZ, OTTO (Plumbers'), S 13th & S Orange av., Newark, N. J. (See adv. index, end of book)
 Johnson, Wm. (Hedenberg Works), Newark, N. J.
 Mueller, H. Mfg. Co., Decatur, Ill.
 Osborne, C. S. & Co., 96 Mechanic, Newark, N. J.

Chisels (Carpenters')

American Axe & Tool Co., Glassport, Pa., & 253 B'way, New York
BERNZ, OTTO, S 13th & S Orange av., Newark, N. J. (See adv. index, end of book)
 Black, John B., Chester, Pa.
 Buck Bros. (Socket & Tang), Millbury, Mass.
 Buck Chas., Millbury, Mass.
 Evansville Tool Works, Evansville, Ind.
 Falls Mfg. Co. (Round & Flat), 12 Drumm, San Francisco, Cal.
HAMMACHER, SCHLEMMER & CO., 133 4th av, N. Y. (See adv. index, end of book)
 Hazel, Atlas Glass Co., Wheeling, W. Va.
 Jennings, C. E. & Co., 42 Murray, N. Y.
 Krauter & Co. (Kipping), Newark, N. J.
 Mack & Co. ("D. R. Barton"), Rochester, N. Y.

New England Specialty Co., N. Easton, Mass.
 Ohio Tool Co., Columbus, Ohio.
 Peck, Stow & Wilcox Co., Southington, Conn.
 Plumb, Fayette R. (Inc.), F'kd., Phila., Pa.
 Rockford Bit Co., Kokomo, Ind.
 Russell & Erwin Mfg. Co., New Britain, Conn., & 45 Chambers, New York
 Smith, H. B. Machine Co. (Mortising), Smithville, N. J., & 121 Liberty, New York
 Swan, Jas. Co., Seymour, Conn.
 White, L. & I. J. Co., Buffalo, N. Y.
 Winsted Edge Tool Works, Winsted, Conn.

Chisels (Cold & Cape)

ANDERSON FORGE & MACHINE CO., 271 Guoin, Detroit, Mich. (See adv. index, end of book)
 Atha Tool Co., Newark, N. J.
 Beall Bros. (Inc.), Alton, Ill.
BERNZ, OTTO, S 13th & S Orange av., Newark, N. J. (See adv. index, end of book)
 Billings & Spencer Co. (Drop Forged), Hartford, Conn.
 Braunsdorf-Mueller Co., Elizabeth, N. J.
 Buck Bros., Millbury, Mass.
 Carver Tool Works, Spring Valley, N. Y.
 Cronk & Carrier Mfg. Co. (Cold Chisels only), Elmira, N. Y.

Dicke Tool Co., Downers Grove, Ill.
 Drew, C. & Co., Kingston, Mass.
 Duffy Mfg. Co., 125 Indiana, Chicago, Ill.
 Evansville Tool Works, Evansville, Ind.
 Falls Mfg. Co., San Francisco, Cal.
 Hammond, C. & Son, Ogontz, Pa.
 Harvey, H. H., 608 Atlantic av, Boston, Mass.
 Hazel Atlas Glass Co., Wheeling, W. Va.
 Hubbard & Co., Pittsburg, Pa.
 Iron City Tool Works (Ltd.), 32d & Smallman, Pittsburg, Pa.

Johnson, Wm. (Hedenberg Works), Newark, N. J.
 Kilborn & Bishop Co. (Drop Forged), 81 Lloyd, New Haven, Conn.
 Klein-Logan Co., S 13th & Breed, Pittsburg, Pa.
 Krauter & Co., 577 18th av, Newark, N. J.
 Mound Tool & Scraper Co. (Engineers' Chums), 710 Howard, St. Louis, Mo.
 Mueller, H. Mfg. Co., Decatur, Ill.

National Cutlery Co., Lawton & M. C. R. R., Detroit, Mich.
 Peck, Stow & Wilcox Co., Southington, Conn.
 Pittsburg Tool & Drop Forge Co. ("Cheswick"), Cheswick, Pa.

Plumb, Fayette R. (Inc.), F'kd., Phila., Pa.
 Polk, A. J. & Son, Millersburg, Pa.
 Schutte, E. G. & Co., Cincinnati, O.
 Snell Mfg. Co. (Cold Chisels only), Fliskdale, Mass.

Stortz, Jno. & Son, 210 Vine, Phila., Pa.
STRONG MACHINERY & SUPPLY CO. ("Strong's" Special), 48 Franklin, New York. (See adv. index, end of book)
 Syracuse Twist Drill Co., Syracuse, N. Y.

Therien Tool Works, 116 1st av, N Minneapolis, Minn.

Tuck Mfg. Co. (Cold Chisels only), Brockton, Mass.

Vaughn & Bushnell Mfg. Co. ("V. & B." Cast Steel), 875 W Carroll av, Chicago, Ill.

Verona Tool Works, Verona, Pa., & Murtland bldg. Pittsburg

WHITMAN & BARNES MFG. CO., Chicago, Ill. (See adv. index & branch offices, end of book)
 Wilcox, Crittenden & Co. (Cold Chisels only), Middletown, Conn.

Chisels (Floor)

BERNZ, OTTO, S 13th & S Orange av., Newark, N. J. (See adv. index, end of book)
 Bradley's, G. W. Sons (Inc.), Westport, Conn.
 Braunsdorf-Mueller Co., Elizabeth, N. J.
 Mueller, H. Mfg. Co., Decatur, Ill.
 Stortz, Jno. & Son, 210 Vine, Philadelphia, Pa.

Chisels (Hollow Mortising)

Forrest City Bit & Tool Co., Rockford, Ill.
 Pugh, Job T., 3105 Ludlow, Philadelphia, Pa.

Chisels (Ice)

American Fork & Hoe Co., Am. Trust bldg. Cleveland, O.
 Bradley's G. W. Sons (Inc.), Westport, Conn.
 Browne & Dowd Mfg. Co. ("B. & D. Co."), Deuse, J. S., Chester, Conn. Meriden, Conn.
 Iowa Farming Tool Co., Fort Madison, Iowa
 Landers, Frary & Clark (Steel Blades), New Britain, Conn.
 Wagner Mfg. Co., Cedar Falls, Iowa
 Williams, A. C., Ravenna, O.

THE REEVES BROTHERS COMPANY
 ALLIANCE OHIO U.S.A.

WE MANUFACTURE

- Oil and Acid Tanks
- Oil Refinery Work
- Car Tanks
- Heavy Dryer Cylinders
- Rotary Cement Cylinders
- Blast Furnaces
- Annealing Boxes
- Standpipes and Water Towers
- Converters, Ladles
- Boilers, Heaters
- Girders, Steel Buildings
- Grain Elevators
- Copper Furnaces
- Clinker Coolers, etc.

Self-Supporting Stacks
 Galvanizing & Tinning Pots
 Lime Kilns
 Brick Hardening Cylinders
 Penstocks and Riveted Pipe
 Creosoting Cylinders
 Cyanide Tanks
 Heavy and Light Plate Construction of Every Description Erected Anywhere.

THE REEVES BROTHERS COMPANY
 Alliance, Ohio, U. S. A.

Chisels (Ship Socket)

Bradley's, G. W. Sons (Inc.), Westport, Conn.

Chisels (Stone Cutters')

ANDERSON, W. H., TOOL & SUPPLY
Co., 14 Macomb, Detroit, Mich. (See adv. index, end of book)

Atha Tool Co., Newark, N. J.

Brunner & Lay, 133 W Polk, Chicago, Ill.

Collins Co., Collinsville, Conn., & 212 Water, New York

Doble, Abner Co., 200 Fremont, San Francisco, Cal.

Evansville Tool Works, Evansville, Ind.

HAMMACHER, SCHLEMMER & CO.,
133 4th av, New York. (See adv. index, end of book)

Harvey, H. H., 608 Atlantic av, Boston, Mass.

Krauter & Co., Newark, N. J.

Mack & Co., Rochester, N. Y.

Mead, I. V., 418 E. 110th, New York.

Morton Tool Co., West Park, O.

Solid Steel Tool & Forge Co. ("S. T. S."), Brackenridge, Pa.

Schueddig, F. Son, 525 S Jefferson, St. Louis, Mo.

Stortz, Jno. & Son, 210 Vine, Phila., Pa.

Chisels (Track)

ANDERSON, W. H., TOOL & SUPPLY
Co., 14 Macomb, Detroit, Mich. (See adv. index, end of book)

Beall Bros. (Inc.), Alton, Ill.

Collins Co., Collinsville, Conn., & 212 Water, New York

Evansville Tool Works, Evansville, Ind.

Harvey, H. H., 608 Atlantic av, Boston

Heller Tool Co., Newark, N. J.

Hubbard & Co., Pittsburg, Pa.

Iron City Tool Works (Ltd.), 32d & Smailman, Pittsburg, Pa.

Kalamazoo Railway Supply Co., Kalamazoo, Mich.

Klein-Logan Co., S 13th & Breed, Pittsburg, Pa.

Lovejoy Tool Works, 86 Ohio, Chicago, Ill.

McInnes Steel Co., Corry, Pa.

National Cutlery Co., Lawton & M. C. R. R., Detroit, Mich.

Pittsburg Tool & Drop Forge Co. ("Cheswick"), Works: Cheswick, Pa.

Plumb, Fayette R., Frankford, Phila., Pa.

Solid Steel Tool & Forge Co. ("S. T. S."), Brackenridge, Pa.

Vaughn & Bushnell Mfg. Co. ("V. & B." Tool Steel), 877 W Carroll av, Chicago, Ill.

Verona Tool Wks., Verona, Pa., & Murland bldg, Pittsburg, Pa.

Vicksburg Mfg. Co., Vicksburg, Mich.

Chloride of Calcium

Acme Calcium Works, Pomeroy, O.

Carbondale Chemical Co. ("Solvay" Fluid & Solid), Carbondale, Pa.

Dickinson, Jno. Q. & Co., Malden, W. Va.

EIMER & AMEND, 205 3d av, New York. (See adv. index, end of book)

Enreka Calcium Works, Pomeroy, O.

Merrimac Chemical Co., Boston, Mass.

Rhodes, Jas. H. & Co., 117 Kinzie, Chicago, Ill.

Roessler & Hasslacher Chemical Co., 100 William, New York

Solvay Process Co., Syracuse, N. Y., & Detroit, Mich.

Chloride of Lime

Acme White Lead & Color Works, Detroit, Mich.

Champion Chemical Works, 208 Michigan, Chicago, Ill.

Feurst Bros. & Co., 2 Stone, New York

Griswold, E. & Co., 16th & R. I. av, San Francisco, Cal.

Hirsch, L. & Son, 368 Greenwich, New York

Platt, H. B., 52 Cliff, New York

Rath Mfg. Co. ("Imperial"), 2d, Hancock & Laurel, Phila., Pa.

United Zinc & Chemical Co., Kansas City, Mo.

Vanderbilt & Son, ft 7th, Hoboken, N. J.

Chloride of Sulphur

Acker Process Co., Niagara Falls, N. Y.

Scheel, Wm. H., 159 Maiden la, New York

Speaight, Geo. W., 248 N 10th, Brooklyn, N. Y.

Stamford Rubber Supply Co., Stamford, Conn.

Chlorination Plants

ALLIS-CHALMERS CO., Milwaukee,
Wis. (See adv. index & branch offices, end of book)

Choppers (Food)

Athol Machine Co. ("American," for Hotels, Families), Athol, Mass.

Enterprise Mfg. Co., 3d & Dauphin, Phila., Pa.

Hurst, H. L. Mfg. Co., Canton, O.

Hurwood Mfg. Co. ("Hurwood"), Bridgeport, Conn.

Landers, Frary & Clark ("Universal" & "Climax"), New Britain, Conn.

Peck, Stow & Wilcox Co. ("Ideal"), Southington, Conn.

Penna Salt Mfg. Co., 115 Chestnut, Phila., Pa.

Sargent & Co. ("Gem"), New Haven, Conn., & 94 Centre, New York

Troy Nickel Works (Juo. E. Gaitley, Prop.), ("Peerless"), Albany, N. Y.

Choppers (Meat)

Athol Machine Co. ("American," for Hotels, Families, Butchers, etc.), Athol, Mass.

Clauss Shear Co. ("Victor" Hand Chopper), Fremont, O.

Enterprise Mfg. Co., 3d & Dauphin, Phila., Pa.

Hobart Electric Mfg. Co. (Electric), Troy, O.

Landers, Frary & Clark ("Universal"), New Britain, Conn.

Murray Iron Works Co. (Draw-Cut Power & Hand & "Zimmerman & Iowa" Noiseless & "Schwahn" Rocker), Burlington, Ia.

Peck, Stow & Wilcox Co. ("Ideal" Family), Southington, Conn.

Rollman Mfg. Co., Mt. Joy, Pa.

Sargent & Co. ("Gem"), New Haven, Conn., & 94 Centre, New York

Smith's, Jno. E. Sons Co. ("Buffalo Silent"), Buffalo, N. Y.

Steigert, Leopold (Also for Food Belt Power), cor Elder & Logan, Cincinnati, O.

Troy Nickel Works (Jno. E. Gaitley, Prop.), ("Peerless") Albany, N. Y.

Chronographs

International Instrument Co., 23 Church, Cambridge, Mass.

Chronometers

Bliss, Jno. & Co. (Nautical, etc.), 128 Front, New York

Bond, Wm. & Son (Marine, Sidereal & Electric Break Circuit), 148 State, Boston, Mass.

Bond, Wm. & Son (Nautical, etc.), 148 State, Boston, Mass.

Riggs & Bro. (Nautical, etc.), 310 Market, Phila., Pa.

Chucks (Boring & Turning Mill)

Horton, E. & Sons Co., Windsor Locks, Conn.

Union Mfg. Co. ("Union"), New Britain, Conn.

Westcott Chuck Co., Oneida, N. Y.

Chucks (Car Wheel)

Hoggson & Pettis Mfg. Co., New Haven, Conn.

Horton, E. & Son Co., Windsor Locks, Conn.

Oneida National Chuck Co., Oneida, N. Y.

Skinner Chuck Co., New Britain, Conn.

Union Mfg. Co. ("Union"), New Britain, Conn.

Westcott Chuck Co., Oneida, N. Y.

Chucks (Centering)

Cushman Chuck Co., New Britain, Conn.

Horton, E. & Son Co., Windsor Locks, Conn.

Skinner Chuck Co., New Britain, Conn.

Union Mfg. Co., New Britain, Conn.

Whiton, D. E. Machine Co., New London, Conn.

*Chucks (Cylinder)

NORTON CO. (For Cylinder Wheels).
Worcester, Mass. (See adv. index & branch offices, end of book)

Chucks (Drill)

Almond, T. R. Mfg. Co. ("Almond"), 83 Wash- ington, Brooklyn, N. Y.

Andrew, M. L. & Co., 2852 Spring Grove av, Cincinnati, O.

Brown, R. H. & Co. (The Reid), New Haven, Conn.

Byer, Humrichouse Tool Co. (Quick Action), Hagerstown, Md.

Butler Chuck Co., Greenfield, Mass.

Cleveland Twist Drill Co., Cleveland, O.

Clough, R. M. (For Straight Shank Drills), Tol- land, Conn.

Cushman Chuck Co., Hartford, Conn.

Detroit Twist Drill Co. ("Graham"), Detroit, Mich.

Goodell Mfg. Co., Greenfield, Mass.

Goodell-Pratt Co., Greenfield, Mass.

Gronkvists Drill Chuck Co. ("Gronkvists"), Jer- sey City, N. J.

Hendricks Mfg. Co. ("Victor"), Waynesboro, Pa.

Hoefer Mfg. Co., Freeport, Ill.

Hoggson & Pettis Mfg. Co., New Haven, Conn.

Horton, E. & Son Co., Windsor Locks, Conn.

Jacobs Mfg. Co. ("Jacobs"), Hartford, Conn.

Miller's Falls Co., Miller's Falls, Mass., & 28 Warren, New York

Modern Tool Co. ("Magic," also for Reamers & Counterbores, Taps, etc.), Erie, Pa.

MORSE TWIST DRILL & MACHINE
Co. ("Beach & Stetson" Center Drill), New Bedford, Mass. (See adv. index, end of book)

Oneida National Chuck Co., Oneida, N. Y.

Pratt Chuck Co. (Driving Drill Chucks, etc.), Frankfort, N. Y.

Pratt & Whitney Co., Hartford, Conn.

Putnam Machine Co., Fitchburg, Mass.

Saunders, D. Sons (also Tap), Yonkers, N. Y.

Schuchardt & Schutte, 136 Liberty, New York

Skinner Chuck Co., New Britain, Conn.

Standard Tool Co., Central av & P. Ry., Cleve- land, Ohio

Trnmp Bros. Machine Co., Wilmington, Del.

Union Mfg. Co. ("Czar"), New Britain, Conn.

Westcott Chuck Co. (The Westcott, Oneida & Little Giant), Oneida, N. Y.

WHITMAN & BARNES MFG. CO.,
Chicago, Ill. (See adv. index & branch of- fices, end of book)

Whitney Mfg. Co. ("Presto"), Hartford, Conn.

Whiton, D. E. Machine Co., New London, Conn.

Wide Range Drill Chuck & Tool Co. ("Wide Range"), Muncie, Ind.

Wiley & Russell Mfg. Co. ("Green River"), Greenfield, Mass.

*Chucks (Expanding)

CHICAGO PNEUMATIC TOOL CO.,
Fisher bldg, Chicago, Ill. (See adv. index & branch offices, end of book)

Chucks (Jaw)

Cushman Chuck Co., Hartford, Conn.

Fray, Jno. S. & Co. (Three Jaw), Bridgeport, Conn.

Horton, E. & Son Co. (Reversible), Windsor Locks, Conn.

Oneida National Chuck Co., Oneida, N. Y.

Putnam Machine Co., Fitchburg, Mass.

Saunders, D. Sons, Yonkers, N. Y.

Union Mfg. Co. ("Union"), New Britain, Conn.

Whiton, D. E. Machine Co., New London, Conn.

Chucks (Lathe)

Cushman Chuck Co., Hartford, Conn.

Harrington, Edwin Son & Co., 17th & Callow- hill, Philadelphia, Pa.

Hoggson & Pettis Mfg. Co., New Haven, Conn.

Horton, E. & Son Co., Windsor Locks, Conn.

Jacobs Mfg. Co. ("Jacobs"), Hartford, Conn.

Leavitt Machine Co., Orange, Mass.

Modern Tool Co. (Draw Sleeve), Erie, Pa.

Oneida National Chuck Co., Oneida, N. Y.

Pratt & Whitney Co., Hartford, Conn.

Putnam Machine Co., Fitchburg, Mass.

Skinner Chuck Co., New Britain, Conn.

Union Mfg. Co., New Britain, Conn.

Westcott Chuck Co. (The Westcott Combina- tion, Independent & Universal), Oneida, N. Y.

Whiton, D. E. Machine Co., New London, Conn.

Chucks (Lever)

Potter & Johnston Machine Co. ("Universal Automatic"), Pawtucket, R. I.

Saunders, D. Sons, Yonkers, N. Y.

Chucks (Magnetic)

Walker, Oakley S. & Co., Worcester, Mass.

Chucks (Milling Machine)

Brown & Sharpe Mfg. Co., Providence, R. I.
Horton, E. & Son Co., Windsor Locks, Conn.
Oneida National Chuck Co., Oneida, N. Y.
OWEN MACHINE TOOL CO., Springfield, O. (See adv. index, end of book)
Union Mfg. Co. ("Union"), New Britain, Conn.

Chucks (Nipple)

Handy Nipple Chuck Co. (For Plumbers, Gas Fitters, Engineers, etc.), Cleveland, O.
Syracuse Tool Co., 123 Liberty, New York.

Chucks (Planer)

Brightman Mfg. Co., Shelby, O.
Fox Machine Co., Grand Rapids, Mich.
Harrington, Edwin Son & Co., 17th & Callowhill, Philadelphia, Pa.
Hollands Mfg. Co., Erie, Pa.
New Haven Mfg. Co., New Haven, Conn.
Oneida National Chuck Co., Oneida, N. Y.
Quincy-Manchester-Sargent Co. ("Pedrick & Ayer"), Old Colony bldg, Chicago, Ill., & 114 Liberty, New York
Reed, Francis Co., Worcester, Mass.
Skinner Chuck Co., New Britain, Conn.
Union Mfg. Co. ("Union"), New Britain, Conn.

Chucks (Projectile)

Union Mfg. Co. ("Union"), New Britain, Conn.

Chucks (Revolving)

Scott & Sons Co. ("Ess-Ess") Medford, Mass.

Chucks (Screw Machine)

Errington, F. A. (Auto Opening), 39 Cortlandt, New York
Garvin Machine Co., 137 Varick, New York
Horton, E. & Son Co., Windsor Locks, Conn.
New Haven Mfg. Co., New Haven, Conn.
Oneida National Chuck Co., Oneida, N. Y.
Putnam Machine Co., Fitchburg, Mass.
Union Mfg. Co., New Britain, Conn.

Chucks (Scroll)

Union Mfg. Co. ("Union" Geared, etc.), New Britain, Conn.

Chucks (Spinning)

BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)
Hay-Budden Mfg. Co. (Forged Tool Steel), 254 N Henry, Brooklyn, N. Y.

Chucks (Spring)

Brown & Sharpe Mfg. Co., Providence, R. I.
Clough, R. M., Tolland, Conn.

Chucks (Tapping)

Errington, F. A. (Auto Reverse), 39 Cortlandt, New York
Hendricks Mfg. Co. ("Victor"), Waynesboro, Pa.
Horton, E. & Son Co., Windsor Locks, Conn.
Modern Tool Co. ("Magic"), Erie, Pa.
St. Louis Machine Tool Co., Wahash R. R. & S Newstead av, St. Louis, Mo.
WELLS BROS. CO. ("Little Giant") Bolt Cutters, Greenfield, Mass. (See adv. index, end of book)

Chucks (Twist Drill)

Andrew, M. L. & Co., 2852 Spring Grove av, Cincinnati, O.
Horton, E. & Son Co., Windsor Locks, Conn.
MORSE TWIST DRILL & MACHINE Co., New Bedford, Mass. (See adv. index, end of book)
National Twist Drill & Tool Co. ("National"), Detroit, Mich.
Oneida National Chuck Co., Oneida, N. Y.
Union Mfg. Co. ("Union"), New Britain, Conn.

Chucks (Wire or Wheel)

Hardinge Bros., 1036 Lincoln av., Chicago
Waltham Watch Tool Co., Springfield, Mass.
Welch, T. F. & Co., 55 Sudbury, Boston, Mass.

Chucks & Chuck Blanks

Waterbury Brass Co., Waterbury, Conn., & 99 John, New York

Church Crosses

Jones, T. W., 22 Burling sl, New York

UNION EQUIPMENT AND BRONZE CO.
520 W 36th, N. Y. (See adv. outside stencil)

Church Decorations

(See Decorations, Church.)

Church Organ Builders

(See Organs, Church.)

Church Seating

(See Furniture, Church.)

Church Spires Repaired

Wightman, Andrew, Leekskill, N. Y.

Churns

(See also Dairy Apparatus & Supplies.)

American Wooden Ware Mfg. Co. ("Magic," "Easy," "Compound Lever," "Hero" and "Charm" Barrel), "Union," "American," "Dasher", Toledo, O.
Aquatic Cream Separator Co. ("Eureka," Barrel Revolving), Rockford, Ill.
Brown, M. & Co. ("Bent Wood," Ash Dash), Wapakoneta, O.
Buckeye Churn Co. ("Buckeye," Ash Dash), Sidney, O.
Burrell, D. H. & Co. (Power, etc., for Creameries, etc.), Little Falls, N. Y.
Creamery Lackaye Mfg. Co. ("Dairy Box," "Rectangular," "C. P.", Box Factory), Chicago, Ill.
Dohson Mfg. Co. ("Favorite," Barrels, Revolving, 6 to 90 gallons), Rockford, Ill.
Fargo Creamery Supply House, Lake Miss, Wis.
Fenner, R. W. ("Fenner's," Revolving Six-Sided), South Stockton, N. Y.
Grand Detour Wagon Co. (Capacity 15 to 20 Gallons), Dixon, Ill.
Gwinner, E. R. & Co. ("Champion"), Cincinnati, O.
Jones, Frank L. ("Jones"), Utica, N. Y.
McDermid, J. ("Belle," "Star," White Oak, Barrel Revolving, Power, etc., 10 to 100 Gallons), Rockford, Ill.
Palmer, H. H. Co. ("Acme," "Boss," "Fairy," Ideal Barrel Revolving, etc.), Rockford, Ill.
Standard Churn Co. ("Standard," Anti-Beetwood Barrel, Revolving), Box Factory, Ash Dash, up to 12 Gallons, Wapakoneta, O.
One-Minute Churn Co. ("One Minute"), 9 Old Slip, New York
*Reid, A. H. Creamery & Dairy Supply Co. (Barrel Revolving & Box Factory), 30th & Market, Phila., Pa.
Stoddard Mfg. Co. ("Stoddard," Box, "Victor," Dairy, Power Churns for Creameries, etc.), Rutland, Vt.
Taylor Pump Co. (Dairy & Creamery), Brasher Falls, N. Y.
Vermont Farm Machine Co. ("Davis," Swing, Cypress, Oak & Pine), Bellows Falls, Vt.

Churns (Box Factory)

Burrell, D. H. & Co. ("B. & W."), Little Falls, N. Y.
Creamery Package Mfg. Co. ("C.-P."), Chicago, Ill.
Fargo Creamery Supply House ("Fargo"), Lake Mills, Wis.
Reid, A. H. Creamery & Dairy Supply Co. ("Reid's"), Phila., Pa.
Stoddard Mfg. Co. ("Stoddard"), Rutland, Vt.
Vermont Farm Machine Co. ("V. F. M."), Bellows Falls, Vt.

Chutes (Coal)

(See Coal Chutes)

Chutes (Sand)

Helmick Foundry & Machine Co., Fairmont, W. Va.
KOVEN, L. O. & BRO., 50 Cliff, New York. (See adv. index, end of book)

Chutes (Steel Plate)

Grand Rapids Foundry Co. (For Cases, Boxes, etc.), Grand Rapids, Mich.

Cigar Box & Cigar Makers' Supplies

GRAMMES, L. F. & SONS, Allentown, Pa. (See adv. index, end of book)
National Selling Co., Allentown, Pa.

Cigar Lighters

Atlas Electric Mfg. Co. (Electric), 172 W B'way, New York
American Electric Novelty & Mfg. Co. (Electric), Spring & Hudson, New York
Bradley & Hubbard Mfg. Co., Meriden, Conn.
Braun, D. J. Mfg. Co., 134 W Washington, Chicago, Ill.
Clark Bros. Co., Belmont, N. Y.
Cowles, C. & Co. (Electric), New Haven, Conn.
Eldred Mfg. Co., 419 N Clark, Chicago, Ill.
Eric Specialty Co., Erie, Pa.
Gleason, E. P. Mfg. Co., 37 Murray, New York
Herz Mfg. Co., St. Paul, Minn.
Higgins Mfg. Co., Newport, Ky.
Hieb & Hoffman, Merrill, Wis.
Holzer, Cahot Electric Co. (Electric & Gas), Brookline, Mass.
Houchin, Thos. W. Co. (Candle), 341 B'way, New York
International Auto & Yacht Agency (Radium), 119 Nassau, New York
New England Novelty Mfg. Co., 104 Hanover, Boston, Mass.
Roche Dry Battery Co. (Electric & Gas), 52 Park pl, New York
Rochester Automobile Co., Rochester, N. Y.
Steinreich & Co. (Pocket), 127 Duane, New York
Vapolite Co., 168 E 51st, New York

*Civil Engineers' Field & Office Supplies

SOLTMANN, E. G.

(Also Blue or Black Prints made from Large Tracings of County and Other Maps), 125 E 42d, New York City. (See adv. index, end of book)

Clamp & Hand Vise (Combined)

Billings & Spencer Co., Hartford, Conn.

Clamps (Adjustable)

Adjustable Clamp Co., Unity bldg, Chicago, Ill.
ARMSTRONG MFG. CO., Bridgeport, Conn., & 139 Centre, New York. (See adv. index, end of book)
Billings & Spencer Co. ("Gardner" & "Miller"), Hartford, Conn.
Cincinnati Tool Co., Norwood, Cincinnati, O.
Dann Bros. & Co. (Wood Workers), New Haven, Conn.
Grand Rapids Wood Carving Co., Grand Rapids, Mich.
Mark Mfg. Co., Evanston, Ill.
Milwaukee Foundry Supply Co., Milwaukee, Wis.
Smith & Egge Mfg. Co. ("Giant"), Bridgeport, Conn.
Stearns, E. C. & Co., Syracuse, N. Y.
TAYLOR, JAS. L. MFG. CO. (Self-Locking Screw), Bloomfield, N. J. (See adv. on following page)

Clamps (Air Brake Hose)

Roberts Car Wheel Co., Three Rivers, Mich.

Clamps (Basin)

American Brass Works, 426 Plum, Cincinnati, Ohio
Bailey-Farrell Mfg. Co., 3d & Ross, Pittsburgh, Pa.
Blessing, C. A., 516 Montgomery av, Philadelphia, Pa.
Boston Brass Co., 36 Oliver, Boston, Mass.
Central Brass Mfg. Co., Cleveland, O.
Climax Specialty Co., Seneca Falls, N. Y.
Clow, Jas. B. & Son, 342 Franklin, Chicago, Ill.

Colwell Lead Co. (Plumbers' "Joy"), 51 Centre, N. Y.
 Connolly Supply Co. (Giant"), 1073 Atlantic av, Brooklyn, N. Y.
 Columbus Brass Co., Columbus, O.
 Fee & Mason (The "Crescent"), 81 Beekman, New York
 Forest City Brass Works, Cleveland, O.
 Glauber Brass Mfg. Co. (Magic), Cleveland, O.
 Haines, Jones & Cadbury Co., 1136 Ridge av, Phila., Pa.
 Hampden Brass Co., Springfield, Mass.
 Haydenville Co., Haydenville, Mass.
 Hoffman-Billings Mfg. Co., Milwaukee, Wis.
 Ideal Mfg. Co., Detroit, Mich.
 Illinois Malleable Iron Co. ("A. B. C."), 30 W. Monroe, Chicago, Ill.
 Judd & Leland Mfg. Co., Clifton Springs, N. Y.
 McCambridge & Co., 315 N 20th, Phila., Pa.
 McNab & Harlin Mfg. Co., 56 John, N. Y.
 Mott, J. L. Iron Works, 118 5th av, New York
 Mueller, H. Mfg. Co. (Ball Bearing), Decatur, Ill.
 National Brass & Metal Co., Minneapolis, Minn.
 Park & McKay Co., 55 Bagley, Detroit, Mich.
 Peck Bros. & Co., 125 Chestnut, New Haven, Conn.
 Rundle-Spence Mfg. Co., Milwaukee, Wis.
 Ryan & Washburu, 204 Grand av, Milwaukee, Wis.
 Ryan, J. J. & Co., 105 S Jefferson, Chicago, Ill.
 Sherman, H. B. Mfg. Co., Battle Creek, Mich.
 Standard Sanitary Mfg. Co., Bessemer bldg, Pittsburgh, Pa.
 Stebbins, E. Mfg. Co., Springfield Mass.
 Steele & Johnson Mfg. Co., Waterbury, Conn.
 Street & Kent Mfg. Co., 45 Fulton, Chicago, Ill.
 Taylor, Geo., 99 Cliff, New York
 Trenton Brass & Machine Co., Trenton, N. J.
 Union Iron Works, Trenton, N. J.
 Union Brass & Metal Mfg. Co., St. Paul, Minn.
 Waterbury Mfg. Co., Waterbury, Conn.
 Wolff, L. Mfg. Co., 117 W Lake, Chicago, Ill.
 Wolverine Brass Works ("Never-Slip"), Grand Rapids, Mich.

Clamps (Beam)

Austin & Eddy, 117 Broad, Boston
BROWN, A. & F. CO. (for Power), 25
 Dey, New York. Works: Elizabethport, N. J. (See adv. index, end of book)
 Cresson, Geo. V. Co. (For Power), Allegheny av W of 17th, Phila., Pa., & West St bldg, New York
DOBBIE FOUNDRY & MACHINE CO.
 (For Lifting Steel Beams). Niagara Falls, N. Y. (See adv. & branch offices, end of book)
 Falls Rivet & Machine Co. (for Power), Cuyahoga Falls, O., & 206 Fulton, New York
 Fee & Mason, 81 Beekman, New York
 General Fire Extinguisher Co., Providence, R. I.
 Illinois Malleable Iron Co., 30 W Monroe, Chicago, Ill.
 Jarecki Mfg. Co., Erie, Pa.
 Penn Engineering Co., 312 Cherry, Phila, Pa.
 Reed Mfg. Co. (The Clark), Erie, Pa.
SIMMONS, JNO. CO., 110 Centre, New
 York. (See adv. index, end of book)
TERRY & TENCH CO. (Inc.), Lex av
 & 131st, New York. (See adv. index, end of book)
 Walworth Mfg. Co., 132 Federal, Boston, Mass.

Clamps (Belt)

ANDERSON, W. H. TOOL & SUPPLY
 CO., 14 Macomb, Detroit, Mich. (See adv. index, end of book)
 Billings & Spencer Co. (The "Gardner & Miller"), Hartford, Conn.
 Boston Bolt Co., 284 Franklin, Boston
 Crescent Mfg. Co., 28 Columbus, Cleveland, O.
 Falls Rivet & Machine Co., Cuyahoga Falls, O., & 208 Fulton, New York
 Hoggson & Pettis Mfg. Co. ("Porter"), New Haven, Conn.
 Page Belting Co., Concord, N. H.

*Clamps (Boat)

New London Vise Works (Wood End), New London, Conn.
TAYLOR, JAS. L. MFG. CO. (Quick
 Adjusting, Self-Locking, Steel Bar), Bloomfield, N. J. (See adv. below)

Clamps (Boilermakers')

Henderer's, A. L. Sons, Wilmington, Del.
 Le Count, Wm. G. (Light & Heavy Steel), South Norwalk, Conn.
 Lovejoy Tool Works, 90 Ohio, Chicago, Ill.
 Niles-Bement-Pond Co., 111 B'way, New York
TAYLOR, JAS. L. MFG. CO. (Quick
 Adjusting, Self-Locking, Steel Bar), Bloomfield, N. J. (See adv. below)

Clamps (Bolt, Pearson King)

Pearson Jack Co., Boston, Mass.

Clamps (Brake Beam)

Gould Coupler Co., 1 W 34th, N. Y.; Rookery bldg, Chicago, Ill.; Works: Depew, N. Y.
 Pearson Jack Co. ("Goodwin"), Boston, Mass.

Clamps (Brick)

Robinson, G. A. ("Stewart's"), 216 6th, Pittsburgh, Pa.
 Duplex Mfg. & Foundry Co. ("Duplex"), Cleveland, O.

Clamps (Bridge)

Le Count, Wm. G. (Steel), South Norwalk, Conn.
TAYLOR, JAS. L. MFG. CO., Bloom-
 field, N. J. (See adv. below)

Clamps ("C")

Billings & Spencer Co. ("Billings" Drop Forged Steel), Hartford, Conn.
 Western Tool & Mfg. Co. ("Vulcan" Drop Forged), Springfield, O.

Clamps (Cabinet Makers' and Carpenters')

Aldrich, Wm. K. Co., 587 Dutton, Lowell, Mass.
 Batavia Clamp Co. (Steel Bar), Batavia, N. Y.
 Bliss, R. Mfg. Co., Pawtucket, R. I.

Cincinnati Tool Co., Norwood, Cincinnati, O.
 Dann Bros. & Co., New Haven, Conn.
 Grand Rapids Hand Screw Co. ("Hanson," "Benedict," also Carvers), Grand Rapids, Mich.

HAMMACHER, SCHLEMMER & CO.
 ("Colt's"), 133 4th av, New York. (See adv. index, end of book)
 Holliday Mfg. & Engineering Co., 160 Bunker, Chicago, Ill.
 Josef, E. E. Mfg. Co. ("Buffalo" Universal Handy Bench Clamp), Buffalo, N. Y.
 Mark Mfg. Co., Evanston, Ill.
 National Novelty Corporation, 826 B'way, New York

Ohio Tool Co., Columbus, O.
 Peck, Stow & Wilcox Co., Southington, Conn.
 Sandusky Tool Co., Sandusky, O.
 Stearns, E. C. & Co., Syracuse, N. Y.
 Tatum, Samuel C. Co. ("Automatic & Never-break"), 414 W Water, Cincinnati, O.
TAYLOR, JAS. L. MFG. CO. (Adjust-
 able & Self-Locking), Bloomfield, N. J. (See adv. below)

Turner, Jno. D., Lowell, Mass.
 Woodruff, W. W. & Sons Co., Mt Carmel, Conn.
 Wrightsville Hardware Co., Wrightsville, Pa.

Clamps (Cable)

Diamond Expansion Bolt Co. ("Long-Saut"), 9 Murray, New York
 Matthews, W. N. & Bro. ("Kearney"), 206 N 2d, St. Louis, Mo.

*Clamps (Column)

TAYLOR, JAS. L. MFG. CO., Bloom-
 field, N. J. (See adv. below)

Clamps (Curtain Frame)

National Novelty Corporation, 826 B'way, New York

*Clamps (Dock Builders')

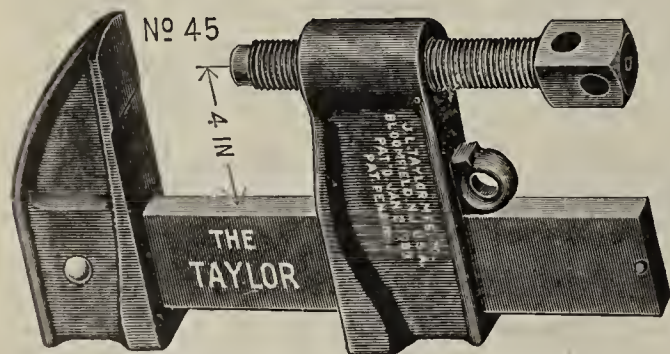
TAYLOR, JAS. L. MFG. CO., Bloom-
 field, N. J. (See adv. below)

Clamps (Door)

American Woodworking Machinery Co., Rochester, New York
 Fay, J. A. & Egan Co., cor. Front & John, W., Cincinnati, O.
 Greenlee Bros. & Co., Railway Exchange bldg, Chicago, Ill. Factory: Rockford, Ill.
 Peck, Stow & Wilcox Co., Southington, Conn., & 27 Murray, New York
 Smith, H. B. Machine Co., Smithville, N. J., & 121 Liberty, New York
 Stearns, E. C. & Co., Syracuse, N. Y.
TAYLOR, JAS. L. MFG. CO., Bloom-
 field, N. J. (See adv. below)

Clamps (Electric)

Dicke Tool Co., Downers Grove, Ill.
 Smith, Otis A. (For Wire, etc.), Rockfall, Conn.



The steel bar, quick acting clamp is replacing the old style "C" clamps wherever clamps are used. They are great time savers, are stronger and are superior in every way.

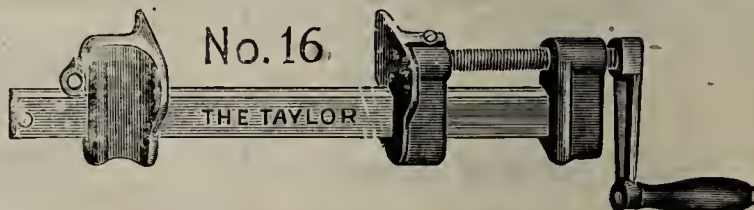
TAYLOR CLAMPS

QUICK-ACTING SELF-LOCKING

Adopted by the U. S. Government, and by leading Railroads, Shipbuilders and Metal and Woodworking Industries generally in all parts of the world.

MADE IN A GREAT VARIETY of STYLES and SIZES

CATALOGUE
 FOR THE
 ASKING



JAMES L. TAYLOR MFG. CO.,

BLOOMFIELD, N. J.

Clamps (Fitters')

Le Count, Wm. G. (Steel), South Norwalk, Conn.
TAYLOR, JAS. L. MFG. CO., Bloomfield, N. J. (See adv. on preceding page)

***Clamps (Flanging)**

TAYLOR, JAS. L. MFG. CO., Bloomfield, N. J. (See adv. on preceding page)

Clamps (Flask)

Barnett, Oscar Foundry Co., Newark, N. J.
 Brass Founders' Supply Co., Newark, N. J.
 Grand Rapids Hand Screw Co. (Wood Screw), Grand Rapids, Mich.
 Milwaukee Foundry Supply Co. (adjustable), 258 Lake, Milwaukee, Wis.
 Sandusky Tool Co. (Brass Moulders), Sandusky, O.
TAYLOR, JAS. L. MFG. CO., Bloomfield, N. J. (See adv. on preceding page)

Clamps (Flooring)

Buckeye Mfg. Co., Anderson, Ind.
 Jefford Mfg. Co. ("Jeffords"), Kansas City, Mo.
 Penn Hardware Co., Reading, Pa.

Clamps (Furniture)

Grand Rapids Hand Screw Co. ("Benedict," Desk Pedestal, Double Case, Bed, Mitre, Drawer, Chair Back, Gluing, Truck, etc.) Grand Rapids, Mich.

Clamps (Ground Connection)

CHASE-SHAWMUT CO., ("Shawmut"), Newburyport, Mass. (See adv. index, end of book)
 Gillette-Vibber Co. ("G-V"), New London, Conn.
 High Tension Electrical Specialty Co., Newton, Mass.
 National Electric Specialty Co. ("National"), Bloomfield, N. J.
 Yonkers Specialty Co. ("New York," for Connecting Telephones, Ground Wires to Pipes, etc.), Yonkers, New York

Clamps (Guy)

AMERICAN HOIST & DERRICK CO. ("Crosby"), St. Paul, Minn. (See adv. index & branch offices, end of book)
 American Iron & Steel Mfg. Co., Lebanon, Pa.
 Hubbard & Co. (Malleable & Wrought), Pittsburgh, Pa.
 Lanz, M. & S. Sons (Pressed Steel & Malleable Iron), Pittsburgh, Pa.
 Michigan Bolt & Nut Works (Patent Pressed Steel), Detroit, Mich.
 Norton Tool Co., West Park, Ohio.
 Western Electric Co., 259 S. Clinton, Chicago, Ill., & 57 Bethune, N. Y.
 Oliver Iron & Steel Co., Pittsburgh, Pa.

Clamps (Hose)

Belknap Mfg. Co., Bridgeport, Conn.
 Clancy, J. R. ("Redfield" Wrought Steel), 247 Salina, Syracuse, N. Y.
 Elkhart Brass Mfg. Co. ("Sure Grip"), Elkhart, Ind.
 Emergency Clamp Co. ("Wilkins, Emergency"), Meadville, Pa.
 Jarecki Mfg. Co. (Adjustable), Erie, Pa.
 Schrader, Geo. H. F., 32 Rose, New York
 Sherman, H. B. Mfg. Co., Battle Creek, Mich.
 Western Tool Co., Galesburg, Ill.
WHITMAN & BARNES MFG. CO., Chicago, Ill. (See adv. index & branch offices, end of book)
 Wolverine Brass Works (Wrought Steel), Grand Rapids, Mich.

Clamps (Hydrant & Water Pipe)

Crane Co. (Est. 1855) 519 S Canal Chicago Ill.
 (See adv. index & branch offices, end of book)
 Western Tube Co., Kewanee, Ill.

Clamps (Insulator)

Clark Electric & Mfg. Co. ("Clark"), 135 B'way, New York
 Fletcher Mfg. Co., Dayton, O.

Clamps (Key Seat)

Starrett, L. S. Co., Athol, Mass.

Clamps (Linemen's Splicing)

Billings & Spencer Co., Hartford, Conn.
 Cincinnati Tool Co., Norwood, Cincinnati, O.
 Cronk & Carrier Mfg. Co., Elmira, N. Y.
 Dicke Tool Co., Downers Grove, Ill.
GENERAL ELECTRIC CO., Schenectady, N. Y. & 44 Broad, N. Y. (See adv. index & branch offices, end of book)
 Kleln, Matbias & Son, 87 W Van Buren, Chicago, Ill.
 Lowentraut, P. Mfg. Co., 36 Brenner, Newark, N. J.
 McIntire, C. Co., Newark, N. J.
 Ohio Brass Co., Mansfield, O.
 Smith, Otis A., Rockfall, Conn.

Clamps (Machinists')

ARMSTRONG MFG. CO., Bridgeport, Conn. & 139 Centre, New York. (See adv. index, end of book)
 Athol Machine Co. (Standard Steel), Athol, Mass.
 Billings & Spencer Co. (Drop Forged), Hartford, Conn.
 Brown & Sharpe Mfg. Co., Providence, R. I.
 Chester Steel Castings Co., Chester, Pa., & 407 Sansom, Phila., Pa.
 Cincinnati Tool Co., Norwood, Cincinnati, O.
 Eberhard Mfg. Co., Cleveland, O.
 Ideal Machine Works ("Ideal"), 255 39th, Brooklyn, N. Y.
 Le Count, Wm. G. (Heavy), S. Norwalk, Conn.
 Mark Mfg. Co., Evanston, Ill.
 Phoenix Hardware Mfg. Co., Homer, N. Y.
 Pratt & Letchworth Co., 189 Tonawanda, Buffalo, N. Y.
TAYLOR, JAS. L. MFG. CO., Bloomfield, N. J. (See adv. on preceding page)
 Woodruff, W. W. & Sons Co., Mt Carmel, Conn.

Clamps (Measuring Bar)

Starrett, L. S. Co., Athol, Mass.

Clamps (Messenger)

Lanz, M. & Sons, Carson & 29th, Pittsburgh, Pa.

Clamps (Parallel)

Besly, Chas. H. & Co., 15 S. Clinton, Chicago, Ill.
 Starret, L. S. Co. (Tool Makers), Athol, Mass.

Clamps (Piano & Cabinet Makers')

(See Clamps, Cabinet Makers' & Carpenters')

Clamps (Pipe)

Dayton Pipe Coupling Co., Dayton, O.
 Dresser, S. R. Mfg. Co. ("Dresser" for Repairing Leaks), Bradford, Pa.
 Frick, Horace E. Co. ("Frick's" for Stopping Leaky Joints), Real Estate Trust bldg., Phila., Pa.
 Lord, L. L. Co. ("Lord" Lead, Stopper & Repair), Meadville, Pa.
 Nusbaum, F. A. ("Perfection," Leak Closing), Dayton, O.
 Parmelee Wrench Co., 1056 W Monroe, Chicago
 Smith, W. Clifford ("Smith's," Leak Closing), 140 N 6th, Phila., Pa.
 Western Railroad Equipment Co., Missouri Trust Building, St. Louis, Mo.
 Western Tube Co., Kewanee, Ill.

Clamps (Plow)

Hilfing Bros., Fort Edward, N. Y.
 Michigan Nut & Bolt Works, Detroit, Mich.
 Stewart & Co., 513 W 50th, New York
 Upson Nut Co., Garfield bldg., Cleveland, O.

Clamps (Pole)

American Iron & Steel Mfg. Co., Lebanon, Pa.
 Hoopes & Townsend Co., 1330 Buttonwood, Hubbard & Co., Pittsburgh, Pa. Phila., Pa.
 Lanz, M. & Sons, Carson & 29th, Pittsburgh, Pa.
 Michigan Bolt & Nut Works, Detroit, Mich.
 Oliver Iron & Steel Co., Pittsburgh, Pa.

Clamps (Quilt Frame)

Arcade Mfg. Co., Freeport, Ill.
 Penn Hardware Co., Reading, Pa.
 Stover Mfg. Co., Freeport, Ill.

Clamps (Rail)

Hill, C. W. ("Hill," Automatic), Forest City, Ill.

Clamps (Rule)

Starrett, L. S. Co., Athol, Mass.

Clamps (Saw)

Atkins, E. C. & Co. (Inc.), Home Offices & Factories, Indianapolis, Ind.
 Baldwin, Tutbill & Bolton (Filing), Grand Rapids, Mich.
 Covel Mfg. Co. (Saw Filing), Benton Harbor, Mich.
 Crescent Machine Co., Leetonia, O.
 Disston, Henry & Sons (Inc.), Phila., Pa.
 Reading Hardware Co., Reading, Pa.
 Stearns, E. C. & Co., Syracuse, N. Y.
TAYLOR, JAS. L. MFG. CO. (& Joint-er Combined), Bloomfield, N. J. (See adv. on preceding page)
 Tower & Lyon Co. ("Champion"), 95 Chambers, New York

Clamps (Saw Brazing)

Atkins, E. C. & Co. (Inc.), Home Offices & Factories, Indianapolis, Ind.
 Atlantic Works (Inc.), 2821 Oakford, Philadelphia, Pa.
 Baldwin, Tutbill & Bolton, Grand Rapids, Mich.
 Covel Mfg. Co., Benton Harbor, Mich.
 Wickes Bros., Saginaw, Mich.

Clamps (Screw)

Cincinnati Tool Co., Norwood, Cincinnati, O.
 Dayton Malleable Iron Co., Dayton, O.
 Eberhard Mfg. Co., Cleveland, O.
 Johnson, Israel H., Jr., & Co., 337 N 15th, Le Count, Wm. G. (Vise), S Norwalk, Conn.
 Malleable Iron Fittings Co., Branford, Conn.
 New London Vise Works (Ship Carpenter Sliding Jaw or Hook End), New London, Conn.
 Phoenix Hardware Mfg. Co. (also Adjustable Screw), Hower, N. Y.
 Pratt & Letchworth Co., Buffalo, N. Y.
 Stearns, E. C. & Co., Syracuse, N. Y.
 Tatum, Sam'l C. Co., 414 W Water, Cincinnati, O.
TAYLOR, JAS L. MFG. CO. (Quick Adjusting, Self-Locking, Steel Bar, etc.), Bloomfield, N. J. (See adv. on preceding page)
 Welch, T. F. & Co., 55 Sudbury, Boston, Mass.
 Wilcox, Crittenden & Co. (Ship & Ship Carpenter), Middletown, Conn.
 Woodruff, Walter W. & Sons Co., Mt. Carmel, Conn.

Clamps (Ship)

(See Clamps, Boat)

Clamps (Splicing)

(See Clamps, Linemen's Splicing)

Clamps (Steam Joint)

McCrea, Jas. & Co. ("Climax" Brass), 67 W Washington, Chicago, Ill.
 Nusbaum, F. A. ("Perfection"), Dayton, O.
 Roberts, Geo. I. & Bros. (Inc.), 473 4th av, New York

Clamps (Steel)

Athol Machine Co. (Parallel, Machinists', Swivel, etc.), Athol, Mass.
 Lanz, M. & Sons, Carson & 29th, Pittsburgh, Pa.
 LeCount, Wm. G. S. Norwalk, Conn.
 Pawtucket Mfg. Co., Pawtucket, R. I.
 Phoenix Hardware Mfg. Co., Homer, N. Y.
 Sawyer Tool Mfg. Co., Fitchburg, Mass.
 Starrett, L. S. & Co. (Tool Makers, etc.), Athol, Mass.
TAYLOR, JAS. L. MFG. CO., Bloomfield, N. J. (See adv. on preceding page)

Clamps (Steel Pipe)

American Steel Foundries (for Cast Iron Pipe Makers), Main Office, 42 B'way, New York & Commercial National Bank, Chicago, Ill.

*Clamps (Turning)

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)

*Clamps (Veneering)

TAYLOR, JAS. L. MFG. CO., Bloomfield, N. J. (See adv. index, end of book)

*Clamps (Wagon Spring)

TAYLOR, JAS. L. MFG. CO., Bloomfield, N. J. (See adv. index, end of book)

Clamps (Water Closet)

(See Clamps, Basin.)

Clamps (Water Pipe)

(See Clamps, Hydrant & Water Pipe.)

Clamps (Wire Rope)

AMERICAN HOIST & DERRICK CO. St. Paul, Minn. (See adv. index & branch offices, end of book)

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)

Broderick & Bascom Rope Co., St. Louis, Mo.
Bronson-Walton Co. ("Bulldog"), Collinwood, Cleveland, O.

DOBBIE FOUNDRY & MACHINE CO., Main Office & Works, Niagara Falls, N. Y. See adv. index & branch offices, end of book

Hazard Mfg. Co., Wilkes-Barre, Pa. & 50 Dey, New York

Lanz, Mathew & Son, Carson & 29th, Pittsburgh, Pa.

Leschen, A. & Sons Rope Co., 920 N 1st, St. Louis, Mo.

Macomber-Whyte-Moon Co., 122 Centre, New York

MACOMBER & WHYTE ROPE CO., 21 S Canal, Chicago, Ill., & 126 Centre, New York. (See adv. index & branch offices, end of book)

ROEBLING'S, JNO. A. SONS CO. of N. Y., 117 Liberty, New York. (See adv. index & branch offices, end of book)

Seward & Co., Bloomfield, Ind.
Trenton Iron Co., Trenton, N. J., & 17 Burling Slip, New York

Union Elevator & Machine Co. (also Manila Rope Clamps), 144 Ontario, Chicago, Ill.
Wilcox, Crittenden & Co., Middletown, Conn.

WRIGHT WIRE CO. ("W. & C.") etc., Worcester, Mass. (See adv. index & branch offices, end of book)

Clasps (Pail)

Acme Flexible Clasp Co. ("Acme" Flexible Pail & Crate), 2834 Archer av, Chicago, Ill.

CARY MFG. CO., 19 Roosevelt, New York. (See adv. index, end of book)

Eureka Metal Box Strap & Mfg. Co., Rochelle, Ill.

Twisted Wire Box Strap Co. ("Mitchell's Peerless"), 451 Greenwich, New York

Classifiers (Hydraulic)

Power & Mining Machinery Co. (For Concentrating Mills), 52 William, New York Works, Cudahy, Wis.

Claw Bars

(See Bars, Claw.)

Claws (Tack)

Arcade Mfg. Co., Freeport, Ill.
Bridgeport Hardware Mfg. Co., Bridgeport, Conn.

Humason & Beckley Mfg. Co., New Britain, Conn.
Jennings, C. E. & Co., 42 Murray, New York

Keystone Drop Forge Works, Chester, Pa.
Kraeuter & Co., 577 18th av, Newark, N. J.
Mayhew, H. H. Co., Shelburn Falls, Mass.
Osborne & Co., Newark, N. J.
Peck, Stow & Wilcox Co., 27 Murray, New York
Sargent & Co., 151 Leouard, New York
Smith & Hemingway Co., 296 B'way, New York

Stortz, Jno. & Son, 210 Vine, Phila., Pa.
Utica Drop Forge & Tool Co., Utica, N. Y.
Vaughn & Bushnell Mfg. Co. ("V. & B." Wrought Steel), 875 W Carroll av, Chicago, Ill.
Williams, J. H. & Co., Brooklyn, N. Y.
Wrightsville Hardware Co., Wrightsville, Pa.

Clay Crushers

(See Crushers, Clay.)

Clay Miners & Shippers

MAURER, HENRY & SON (for All Purposes), 420 E 23d, New York; Peuna bldg, Phila., Pa. Works: Maurer, N. J. (See adv. inside Front Cover)

National Pyrogranit Co., 17 Battery pl, New York

Perrine, H. C. & Son (All Kinds), S Amboy, N. J.

RUTLAND FIRE CLAY CO., Rutland, Vt. (See adv. index & branch offices, end of book)

Valentine, M. D. & Bro. Co. (Foundry, etc.), Woodbridge, N. J.

Clay Retorts

(See Gas Retorts.)

Clays, Minerals, Etc.

(See also Color Mfrs. & Importers.)

American Ochre Co. ("Ochre"), Cartersville, Ga.
Atlas Mining & Mineral Co., Lincoln, N. J., & 82 Pearl, New York

Berg Mining Co., 121 Front, New York.
Blue Ridge Ochre Co., Cartersville, Ga.

Cherokee Ochre & Barytes Co., Cartersville, Ga.
Chrystal, Chas. B., 184 Water, New York

Davidson, Jas. H. (Inc.) (Ochres, Red Oxides, Barytes, etc.), 239 Front, New York

Doggett, Stanley, 101 Beekman, New York
Earle, Ellis P., 31 Nassau, New York

Federal Clay Mfg. Co., 170 B'way, New York
Feuchtwanger, L. & Co., 54 Fulton, New York

Franklyn & Ferguson (Barytes, Clays, etc.), Cotton Ex., N. Y.

Fuerst Bros. & Co., 2 Stone, N. Y.
Georgia Peruvian Ochre Co., S. Bethlehem, Pa., & Cartersville, Ga.

Great Eastern Clay Co., 39 Cortlandt, New York

Hammill & Gillespie (China, Potters, etc.), 240 Front, N. Y.

Massena Mineral Filler Co. (Agalite, Talc, Asbestos, Pulp, Paper & Paint Fillers), Massena, N. Y.

Mephram, Geo. S. & Co., East St. Louis, Ill.
Mertztown Mfg. Co. (Orche, Umbers, Siemas, Metallic, Brown, Mineral, Black, etc.), Works, Mertztown, Pa.

Moore & Munger, 99 John, New York
Mt. Holly Brick & Clay Co. (Refiners of White Clay), Harrisburg, Pa.

National Gum & Mica Co., 502 W 45th, N. Y.
Nevins, Samuel Co., 109 S 2d, Phila., Pa.

N. Y. Silicate Co., 29 B'way, N. Y.
Osborn, Clarence J. (Broker), 284 Pearl, New York

Pettit Chemical Co., 241 Front, N. Y.
Robbins, Alfred A., 180 South, N. Y.

Salomon, L. A. & Bro. (China Clay, etc.), 216 Pearl, New York

Silkman, Frank W., 150 Nassau, New York
Tennant & Sons Co. (Arsenic, China Clay, Talc, etc.), 76 William, New York

Thiele, E., 99 John, N. Y.
Uhlich, Paul & Co., 108 Fulton, N. Y.

Union Talc Co. (Agalite), 149 B'way, N. Y. Works, Gouverneur, N. Y.

Wagener, John O. & Co. (Mineral Pulp), Easton, Pa.
Whittaker, W. H., 245 Front, N. Y.

WILBUR JOB CO. (American Ochres, Talcene, Black Filler & Red & Gray Slates). Office, Providence, R. I. Factory, Phila., Pa. (See adv. index, end of book)

Williams, C. K. & Co. (Mineral Pulp, Clays, Ochre, etc.), Easton, Pa.

Clays (Modeling)

Stewart & Co., 511 W 50th, New York

Cleaners (Bean & Pea)

Dickey, A. P. Mfg. Co. ("Dickey"), Racine, Wis.

Ferrell, A. T. & Co. ("Clipper"), Saginaw, Mich.

Johnson & Field Mfg. Co. ("Racine"), Racine, Wis.

Owens, J. L. Co. ("Advance"), Minneapolis, Minn.

Cleaners (Boiler Flue & Tube)

(See also Brushes, Boiler Flue)

Advance Packing & Supply Co., 55 S Canal, Chicago, Ill.

American Boiler Flue Cleaner Co. ("American"), Trenton, N. J.

Baker-Smith Co. (Flue Cleaners), Oswego, N. Y.
Berry Engineering Co., Chester, Pa.

Boyer-Radford Mfg. Co. ("Gem"), 22 Sears, Dayton, O.

Browne, F. W. (Boiler Tube Cleaners), Farmington, N. H.

Buckeye Boiler Skimmer Co. ("Buckeye" Automatic Boiler Skimmers), Toledo, O.

Buckeye Heating & Supply Co., 1368 W 2d, N W., Cleveland, O.

Burgess, E. A. (Est. of) ("Grombold" Boiler Flue), New Haven, Conn.

Burrows Mfg. Co., 73 Warren, New York

Bushnell, John S. Co. ("Grimm's" Injector Blower for Vertical Boilers, also Soot Suckers), 123 Liberty, New York

Cappon, John, 198 Commercial, Rochester, N. Y.

Casaday, W. L. Mfg. Co., South Bend, Ind.

Chesterton, A. W. & Co. ("Ingalls" Tube Scraper, "Engineers Favorite" & "Wonder" Tube Cleaner, Combination Scraper & Brush, "Abram" Tube Brush & Spiral Tube Brush, etc.), 64 India, Boston, Mass.

Christoffel's, A. Son, 277 Eldert, Brooklyn, N. Y.

Clark, A. C. & Co. (Mechanical Boiler Cleaner), 102 Michigan av, Chicago, Ill.

Cleveland Flue Cleaner Mfg. Co. ("A. & D." Steam Boiler Flue Cleaner), 321 Frankfort av, N W, Cleveland, O.

Cleveland Tube Cleaner Co. ("Peerless" Re-Adjusted Boiler Tube Cleaners), 424 Frankfort av, N W, Cleveland, O.

Coggeshall Mfg. Co. ("Coggeshall" Hammer, Steam & Boiler Tube Cleaner, Steel Fire Brushes & Tube Scrapers), Hamburg, N. J.

Colles, E. G. T. & Co. (Boiler Cleaners & Skimmers), 42 S Clinton, Chicago, Ill.

Crescent Mfg. Co. ("Cyclone" Flue Cleaner), 1708 Columbus rd, N W, Cleveland, O.

Dempsey, J. E. Co. ("Clark" Mechanical Boiler Cleaner), Monadnock blk, Chicago, Ill.

Doolittle, S. B. & Son ("Doolittle's-Perfect" Flue Cleaner with Shear Cutting Knives), Binghamton, N. Y.

Erie Mfg. & Supply Co. ("The Perfection"), Erie, Pa.

Faries Mfg. Co. ("Faries" Self-Expanding & Contracting Tube Cleaner), Decatur, Ill.

Forest City Brass Works ("The Buckeye"), 1607 Merwin, N W, Cleveland, O.

Fort Wayne Steam Specialty Co. ("S. S. S."), Fort Wayne, Ind.

Franklin, Benj. ("The Boss"), E. & B. bldg, Rochester, N. Y.

Gem Mfg. Co. ("Gem" Flue Scrapers), Spruce & 33d, Pittsburgh, Pa.

General Specialty Co. ("Torpedo" Fire Tube Cleaner & "Demon" Water Tube Cleaner), 101 Seneca, Buffalo, N. Y.

Gerhardt, C. (Flue & Tube Brushes), 591 Hudson, New York

Gilmore Tube Scraper Works (F. G. Crowell, Prop.) ("Gilmore" Tube Scraper), 200 Terrace, Buffalo, N. Y.

Globe Brass Co. (Cyclone), 15 Macomb, Detroit, Mich.

Greenwood Mfg. & Supply Co. ("Greenwood" Hot Blast Flue Blower), 147 Milk, Boston, Mass.

Griffiths, Jas. A. (The "Cook"), 500 N 12th, Philadelphia, Pa.

Hennebohie, F., South Chicago, Ill.

Hilts Wrench & Mfg. Co. ("Perfect"), Richmond, N. Y.

Houghton, E. F. & Co., 240 W. Somerset, Phila., Pa.

Huyette, Paul B. Co. ("Tornado" Air Blower Tube or Flue Cleaner), Betz bldg, Phila., Pa.

Irving Mfg. & Tool Co. (J. F. McCoy Co., Prop.) (Flue Cleaners), 159 Chambers, New York

Jackson Flour Mill Machinery Mfg. Co. ("The Challenge"), Jackson, Mich.

Jackson Flue Scraper Co. ("Jackson" Flue Scraper), Jackson, Mich.
 Jarecki Mfg. Co. ("The Hurley Freeman"), Erie, Pa., & Pittsburg, Pa.
 Johns, H. W.-Manville Co. ("National"), 100 William, New York
 Just Mfg. Co. (Mechanical Boiler), Heed bldg, Kurz, J. & W., Quincy, Ill. Phila., Pa.
 Lagonda Mfg. Co., (The "Weinland" Water Power Tube Cleaner), Springfield, O.
 Leonard & McCoy ("The Hotchkiss"), 161 Washington, New York
 Liberty Mfg. Co. ("Liberty," "Chicago," "Niagara" Turbine), 6907 Susquehanna, Pittsburg, Pa.
 Lord, L. L. Co., Meadville, Pa.
 McCrea, Jas. & Co., ("Butman" Ball Joint Flue Scraper Rod), 67 W Washington, Chicago, Ill.
 McKim, John & Co. (Flue Cleaning Brushes), 131 N 10th, Phila., Pa.
 McLaughlin, Geo. G. Mfg. Co., 24 Washington, N, Boston, Mass.
 Manchester Mfg. Co. ("The Meyers" Automatic), N Manchester, Ind.
 Matthews, W. N. & Bro. ("Steam Scale Knockers"), 206 N 2d, St. Louis, Mo.
 Maurer, Labadie & Co. ("Lightning" Tube Cleaners), 217 St. Joseph, South Bend, Ind.
 Michigan Lubricator Co. ("Correct," "Engineers" & "King" & Adjustable Flue Scrapers), 663 Beaubien, Detroit, Mich.
 Mulholland, J. H. (The Spencer), 78 Lafayette, New York
 Oberchain & Boyer, Logansport, Ind.
 Parson Mfg. Co. ("Parson's" Air Jet Flue Cleaner), 299 B'way, New York
 Pierce, W. B. Co. (The "Dean" Tube Cleaner), 327 Washington, Buffalo, N. Y.
 Pilley Packing & Flue Brush Mfg. Co., 606 S 3d, St. Louis, Mo.
 Power Specialty Co. ("Diamond" Steam Tube Cleaner), 236 Fort, W., Detroit, Mich.
 Prosser, Thos. & Son (Steel Wire Brushes), 15 Gold, New York
 Register's, J. Sons Co. ("Boiler Cleaners), Holiday & Saratoga, Baltimore, Md.
 Reversible Tube Cleaner Co. ("Criss Cross" Tube Cleaner), Worcester, Mass.
 Risley-Moser Co., Princeton, Ind.
 Robertson, Jas. L. & Son (Inc.) ("The Hurricane"), 48 Warren, N. Y.
 Ruffner, D. B. & Son, Bowman & Cresson Falls, Phila., Pa.
 St. John, G. C. ("St. John," Tube Cleaner), 143 Liberty, N. Y.
SCAIFE, WM. B. & SONS CO., 221 1st av, Pittsburg, Pa. (See adv. index, end of book)
 Scully Steel & Iron Co. ("Ruggles" Perfection Flue Cleaner), 136 Fulton, Chicago, Ill.
 Seehausen, Wehrs & Co. (The Lukens), 11 S Canal, Chicago, Ill.
 Stewart Heater Co. ("Red Jacket & Favorite"), 396 Norfolk av, Buffalo, N. Y.
 Sims Co. (Mechanical), Erie, Pa.
 Stephenson Mfg. Co. (Rollins Self-Expanding), Albany, N. Y.
 Stewart Heater Co. (Red Jacket & Favorite), 389 Norfolk av, Buffalo, N. Y.
 Thompson, M. H. Mfg. Co. ("Cyclone" Hot Air Boiler Tube Cleaner), Portland, Me.
 Thompson, Richard & Co. ("Thomson's 20th Century" Tube Cleaner or Injector Blower), 126 Liberty, N. Y.
 Thum, Chas. D. (Brushes), 150 N 3d, Phila., Pa.
 Turner & Brownlie, 300 E Court, Des Moines, Iowa
 Unique Engineering Co. ("Unique" Flue Cleaner, Scraper & Blower), 5 Beekman, New York
 Voorhees, John H., Met. av, & Newtown Creek, Brooklyn, N. Y.
 Warley, Thos. C. & Co., 221 S Front, Phila., Pa.
 Wing, J. T. & Co. ("The Detroit" Flue Cleaners), 19 Woodward av, Detroit, Mich.
 Wolfe Brush Co., S 15th & Bingham, Pittsburg, Pa.
 Zillox, Greene & Co. ("Sterling" Boiler Tube Cleaner, "Peerless" Tube Scraper, also Power Cleaner), 327 Wash'n, Buffalo, N. Y.

Cleaners (Carpet)

(See also Sweepers, Carpet)

Electric Cleaner Co., Canton, O.
 Vacuo Sanitary Carpet Cleaner Co. ("Vacuo"), Lewis blk., Buffalo, N. Y.

Cleaners (Corn)

De Loach Mill Mfg. Co., Atlanta, Ga.
 Marseilles Mfg. Co., Marseilles, Ill.
 Nordyke & Marmon Co., Indianapolis, Ind.
 Sprout, Waldrow & Co., Muncy, Pa.
 Union Iron Works, Decatur, Ill.

Cleaners (Drain)

(See Shovels, Drain)

Cleaners (Gun)

(See Tools, Gun Cleaning & Reloading).

Cleaners (Hose)

Rudiger, J. H. ("Rudiger" Automatic), 217 West, New York

Cleaners (Incandescent Lamp)

Incandescent Electric Light Manipulator Co.
 McCreary, Alfred A., 138 Liberty, New York

Cleaners (Pavement)

(See also Scrapers, Sidewalk)

American Fork & Hoe Co. (Solid Shank), Main Office, Cleveland, O.
 Continental Tool Co. (Solid Steel, Snow & Ice), Frankfort, N. Y.
 Iowa Farming Tool Co., Fort Madison, Ia.
 Withington & Cooley Mfg. Co., Jackson, Mich.

*Cleaners (Pipe)

BERNZ, OTTO (Fliteroft Patent), S
 13th & S Orange, Newark, N. J. (See adv. index, end of book)

Cleaners (Track)

(See Scrapers or Cleaners, Track)

Cleaners (Wall Paper)

Antiseptic Mfg. Co., Pittsburg, Pa.
 Climax Steam Mfg. Co., Cleveland, O.
 Electric Cleaner Co., Canton, O.
 Jewel Mfg. Co., 515 Holden pl, Chicago, Ill.
 Rutherford, Wm., 467 N Wells, Chicago, Ill.

Cleaners (Window)

Parker Wire Goods Co., Worcester, Mass.
 Phoenix Hardware Mfg. Co., Homer, N. Y.

*Cleaning by Compressed Air

GENERAL COMPRESSED AIR & Vacuum Machinery Co., 4469 Olive, St. Louis, Mo. (See adv. index, end of book)
ORGAN POWER CO., Hartford, Conn. (See adv. index, end of book)
 Sanitary Devices Mfg. Co., 11 E 24th, New York
VACUUM CLEANER CO., 427 5th av, New York. (See adv. index, end of book)

Cleanouts

Aird, Platt Mfg. Co. ("Dandy"), Watervliet, N. Y.
 Barrett, Jas. Mfg. Co. ("Barrett's Nonparell"), 211 Franklin, Boston, Mass.
 Estabrook's, R. Sons ("Boston," "Success"), 204 W 1st, S. B., Boston, Mass.
 Modern Iron Works (For Extra Heavy Pipe), Quincy, Ill.
 Swett, A. L., Iron Works, Medina, N. Y.
 Wade Iron Sanitary Mfg. Co. ("Wade"), 52 Dearborn, Chicago, Ill.

Cleats (Boat or Ship)

Laughlin, Thos. Co., Portland, Me.
 Marine Hardware Co., Peabody, Mass.
 Pusey & Jones Co., Wilmington, Del.
 Shelton Co., Derby, Conn.
 Wilcox, Crittenden & Co., Middletown, Conn.

*Cleats (Car Wiring)

GENERAL ELECTRIC CO. (Brass, Wood, etc.), Schenectady, N. Y., & 44 Broad, New York. (See adv. index & branch offices, end of book)

*Cleats (Mooring)

BETHLEHEM FOUNDRY & MACHINE Co., Front, South Bethlehem, Pa., & 149 B'way, New York. (See adv. index & branch offices, end of book)

Cleats (Porcelain or Clay)

Akron China Co., Akron, O.
 Akron Smoking Pipe Co., Mogadore, O.
 Brian Pottery Co. (Porcelain), Trenton, N. J.
 Brunt, G. F. Porcelain Works (Porcelain), East Liverpool, O.
 Bryant Electric Co. (Brass Wiring), Bridgeport, Conn.
 Canton Hollow Block Co. (Clay & Porcelain), Canton, O.
 Colonial Sign & Insulator Co., Akron, O.
 Diamond Porcelain Co., Trenton, N. J.
 Electric Porcelain Co. (Porcelain), East Liverpool, O.
 Electric Porcelain & Mfg. Co. (Porcelain only), Trenton, N. J.
 Empire China Works (Porcelain), 156 Greene, Brooklyn, N. Y.
GENERAL ELECTRIC CO., Schenectady, N. Y., & 44 Broad, New York. (See adv. index & branch offices, end of book)
 Granite Clay Co., Mogadore, Ohio
 Greenwood Pottery Co. (Porcelain), Trenton, N. J.
 Hartford Falence Co., Hartford, Conn.
 Imperial Porcelain Works (Porcelain), Trenton, N. J.
 New England Electric Mfg. Co., West Somerville, Mass.
 Pass & Seymour (Porcelain), Solvay, N. Y.
 Peru Electric Mfg. Co. (Porcelain only), Peru, Ind.
 Standard China Works (Warren Kimble, propr., Porcelain), Trenton, N. J.
 Star Porcelain Co. (Porcelain), Trenton, N. J.
 Thomas, R. & Sons Co. (Porcelain only), East Liverpool, O.
 Trenton Porcelain Co., Trenton, N. J.
 Union Electrical Porcelain Works, Trenton, N. J.
 Union Porcelain Works, 300 Eckford, Brooklyn, N. Y.

Cleats (Rope)

Union Elevator & Machine Co., 144 Ontario, Chicago, Ill.

Cleavers (Butchers', Etc.)

(See also Machinery, Butchers' Machinery & Supplies)

AMERICAN TAP & DIE CO., Greenfield, Mass. (See adv. index, end of book)
 Bishop, Geo. H. & Co. (Family), Cincinnati, O.
 Bradley's, G. W. Sons (Inc.), Westport, Conn.
 Chatillon, Jno. & Sons, 87 Cliff, New York
 Clyde Cutlery Co. (Family), Clyde O.
 Evansville Tool Works, Evansville, Ind.
 Foster Bros. & Chatillon Co., Fulton, N. Y.
 Griffin Mfg. Co., Erie, Pa.
 Kinnel Bros., Columbus, O.
 Knickerbocker Hardware Co., 299 B'way, New York. Works: Newark, N. J.
 Mack & Co., Rochester, N. Y.
 Peck, Stow & Wilcox Co. (Family), 27 Murray, New York
 Plumb Fayette, R. (Inc.), Frankford, Phila., Pa.
 Richard, Stephen Co. ("S-N" & Family), Southbridge, Mass.
 Smith & Hemenway Co., 296 B'way, New York
 White, L. & I. J. Co. (Family), Buffalo, N. Y.

*Clevises (Plow Etc.)

WHITMAN & BARNES MFG. CO., Chicago, Ill. (See adv. index & branch offices, end of book)
 Empire Plow Co., Ensley, Ala., & Cleveland, O.

Climbers (Linemen's)

Blakeslee Forging Co. ("Donnelly"), Plantsville, Conn.
 Cincinnati Tool Co., Norwood, Cincinnati, O.
 Cronk & Carrier Mfg. Co., Elmira, N. Y.
 Dicke Tool Co., Downers Grove, Ill.
 Klein, Mathias & Son, 87 W Van Buren, Chicago, Ill.
 Lowentraut, P. Mfg. Co., 36 Brenner, Newark, Ohio Tool Co., Mansfield, O.
 Oshkosh Logging Tool Co., Oshkosh, Wls.
 Smith, H. D. & Co., Plantsville, Conn.
 Utica Drop Forge & Tool Co., Utica, N. Y.

Clippers (Bolt or Rivet)

Allen-Randall Co. ("Allen-Randall"), Springfield, Mass.
Chain Belt Co. ("Levalley"), Milwaukee, Wis.
Chambers Bros. Co., 52d below Lancaster av., Phila., Pa.
Columbus Bolt Works Columbus, O.
HELWIG MFG. CO. ("Helwig"), St. Paul, Minn. (See adv. index, end of book)
Metal Stamping Co., 468 W B'way, New York
Peck, Stow & Wilcox Co., Southington, Conn.
Porter, H. K. ("Easy," "New Easy"), Everett, Mass.
Roberts Mfg. Co. ("Roberts" & "Victor"), Somerville, Mass.
Schollhorn, Wm. Co. ("Elm City," "Bernard" End Cutting), New Haven, Conn.

Clippers (Cattle Dehorning)

(See Dehorners)

Clippers (Finger Nail)

Cook, H. C. Co. ("Gem"), Ansonia, Conn.
Klip-Klip Co. (Klip-Klip), Rochester, N. Y.
Little River Mfg. Co., Seymour, Conn.
Smith & Heminway Co., 296 B'way, New York
Snow & Petrelli Mfg. Co., New Haven, Conn.
Sperry & Alexander Co. (Toolever), 300 B'way New York

*Clippers (Hair)

COATES CLIPPER MFG. CO.
("Coates" Barbers), Worcester, Mass. (See adv. index, end of book)

Clippers (Horse)

(See also Horse Clipping Machines)

American Shearer Mfg. Co. ("Priest's"), Nashua, N. H.
Brown & Sharpe Mfg. Co. (Hand Clippers), Providence, R. I.
Hotchkiss, Edw. S., Bridgeport, Conn.
Redman, C. H. & Co., 220 High, Newark, N. J.

Clippers (Orange)

Clauss Shear Co. ("Clauss"), Fremont, O.
Henry, John T., Mfg. Co., Hamden, Conn.
National Cutlery Co., Westmoreland & Boudinot, Phila., Pa.
Wiss, J. & Sons Co., Newark, N. J.

Clippers (Stay Bolt)

(See Pneumatic Stay Bolt Clippers)

Clips (Axle)

Clapp, E. D. Mfg. Co., Auburn, N. Y.
Cowles, C. & Co., New Haven, Conn.
MOORE, FRANKLIN CO., Winsted, Conn. (See adv. index, end of book)
Upson Nut Co., Unionville, Conn.

Clips (Cable Hanging)

(See Hangers, Cable.)

Clips (Damper)

Adams Co., Dubuque, Iowa
Berger Bros. Co., 231 Arch, Philadelphia, Pa.
Brohard Co. (Malleable Iron), 1624 N 9th, Philadelphia, Pa.
Shepard, Sidney & Co., Buffalo, N. Y.
Taylor & Boggs Foundry Co., Cleveland, O.

Clips (Floor)

Mulvey, Chas. Mfg. Co. (Steel Floor), 18 S Jefferson, Chicago, Ill.

Clips (Paper)

Clipper Mfg. Co. ("Clipper"), 401 W 124th, New York
Consolidated Safety Pin Co. ("Eureka"), Bloomfield, N. J.
Cushman & Denison Mfg. Co. ("Gem"), 240 W 23d, New York

Clips (Sleeper)

CHICAGO BUILDERS SPECIALTIES
Co. ("O. K." Wire), 138 Washington, Chicago, Ill. (See adv. index, end of book)
Hurd & Haggin, 316 Hudson, New York
Variety Mfg. Co. (Steel), Sacramento & Carroll av., Chicago, Ill.

Clips (Structural Steel)

Streeter, H. A., 31 Indiana, Chicago, Ill.

Clips (Trolley Wire)

Billings & Spencer Co., Hartford, Conn.

Clips (Wire Rope)

AMERICAN HOIST & DERRICK CO.
("Crosby"), St. Paul, Minn. (See adv. index & branch offices, end of book)
Broderick & Bascom Rope Co., 809 N Main, St. Louis, Mo.

BYERS, JOHN F., MACHINE CO.,
Ravenna, O. (See adv. index, end of book)
Cincinnati Railway Supply Co., 13 E. 2d, Cincinnati, O.

Contractors Plant Mfg. Co., 129 Erie, Buffalo, N. Y.

DOBBIE FOUNDRY & MACHINE CO.,
Main Office & Works, Niagara Falls, N. Y.
See adv. index & branch offices, end of book

Durable Wire Rope Co., 28 Atlantic av., Boston, Mass.

Hammond Mfg. Co., 28 Atlantic av., Boston, Mass.

Hazard Mfg. Co., Wilkes-Barre, Pa., & 50 Dey, New York

Lanz, M. & Sons, Carson & 29th, Pittsburg, Pa.

Leschen, A. & Sons Rope Co., 920 N 1st, St. Louis, Mo.

Macomber-Whyte-Moon Co., 122 Centre, New York

MACOMBER & WYTHE ROPE CO.,
21 S Canal, Chicago, Ill., & 126 Centre, New York. (See adv. index & branch offices, end of book)

ROEBLING'S, JOHN A. SONS CO. of N. Y., 117 Liberty, New York. (See adv. index, & branch offices, end of book)

TERRY & TENCH CO. (Inc.) Lex av & 131st, New York. (See adv. index end of book)

Trenton Iron Co., Trenton, N. J., & 17 Burling Slip, New York

Wilcox, Crittenden & Co., Middletown, Conn.

WRIGHT WIRE CO. ("Crosby"), Worcester, Mass. (See adv. index & branch offices, end of book)

Clock Manufacturers

(See also Clocks, Various Kinds)

Ansonia Clock Co., 11 Cliff, New York. Works: Ansonia, Conn.

Bristol Brass Co., 46 W B'way, New York

Chelsea Clock Co., 16 State, Boston, Mass.

Durfee, Walter H. & Co. (Tubular Chime), Providence, R. I.

Gilbert, W. L. Clock Co. (and Regulators), 37 Maiden lane, New York. Works: Winsted, Conn.

Goodwin & Kintz Co. (Novelty), Winsted, Conn.

HOWARD, E. CLOCK CO., 373 Wash- ington, Boston, Mass. (See adv. on following page; branch offices, end of book)

Ithaca Calendar Clock Co., Ithaca, N. Y.

Ladd, W. C., Bristol, Conn.

Magneta Co., 120 W 31st, New York

National Brass & Iron Works (Metal Mantel, etc.), Reading, Pa.

New Haven Clock Co., Chicago, Ill.; 92 William New York; Works: New Haven, Conn.

Parker Clock Co., 32 Warren, N. Y. Works, Meriden, Conn.

Phelps, H. D., Ansonia, Conn.

Self-Winding Clock Co., 163 Grand av., Brooklyn, N. Y.

Sempire Clock Co. ("Electrometer," No Winding required), 7th & Hickory, St. Louis, Mo.

Sessions Clock Co. (Mantel, Hanging, Regulators, etc.), Forrestville, Conn., & 37 Maiden lane, N. Y.

Thomas, Seth Clock Co., 49 Maiden lane, N. Y. Works, Thomaston, Conn.

Waltham Clock Co., Waltham, Mass.
Waterbury Clock Co., Waterbury, Conn.
Western Clock Mfg. Co., La Salle, Ill., & Peru, Ill.

Clock Movements for Meters Gauges, Etc.

Piego, Alex. J. R., Lynn, Mass.
Plumb, David S., 24 Boudinot, Newark, N. J.
Reeves Mfg. Co., Milford, Conn.
Waterbury Clock Co., Waterbury, Conn.

Clock Trimmings

Clark, A. N. & Son, Plainville, Conn.
Gardner's, J. B. Sons, Ansonia, Conn.
Root, W. E., Bristol, Conn.

*Clocks (Angelus Strikers, Quarter & Half Hour Strikers)

HOWARD, E. CLOCK CO., 373 Washington, Boston, Mass. (See adv. on following page; branch offices, end of book)

Clocks (Electric)

American Clock Co., Wabash av & 20th, Chicago, Ill.

American Watchman's Time Detector Co., 45 Sheriff, Cleveland, O.

Blodgett Clock Co., 141 Franklin, Boston, Mass.

Bogart, A. L. Co., 123 Liberty, New York

Eco Magneto Clock Co., 289 Congress, Boston, Mass.

Herzog Teleseme Co., 51 W 24th, N. Y.

HOWARD, E. CLOCK CO., (Second-ary), 373 Washington, Boston, Mass. (See adv. on following page; branch offices, end of book)

Imhauser, E. & Co. (Watchman's), 206 B'way, N. Y.

Magneta Co., 120 W 31st, New York

Pearce, Frederick Co., 18 Rose, New York

Pettes & Randall Co., 150 Nassau, New York

Prentiss Clock Improvement Co., 49 Dey, New York

Reeves Mfg. Co., New Haven, Conn.

Thomas, Seth, Clock Co., 49 Maiden lane, N. Y. Works, Thomaston, Conn.

Turnquist, C. M., 442 W Van Buren, Chicago, Ill.

Western Electric Co., 259 S. Clinton, Chicago, Ill., & 57 Bethune, N. Y.

Clocks (Electric Alarm)

Herzog Teleseme Co., 51 W 24th, New York

Jones, J. & Son, 62 Vesey, New York

Manhattan Electrical Supply Co., 17 Park pl, New York

Ostrander, W. R. & Co., 22 Dey, New York

Pearce, Frederick Co., 18 Rose, New York

Roache, Wm. Dry Battery Co. ("Wide Awake"), 42 W B'way, New York

Stanley & Patterson (Diamond), 23 Murray, New York

Star Electric Co., Binghamton, N. Y.

Turnquist, C. M., 442 W Van Buren, Chicago, Ill.

Ziegler Apparatus Co., 200 Summer, Boston, Mass.

Waggoner Watchman Clock Co., Grand Rapids, Mich.

Western Electric Co., 259 S Clinton & 57 Bethune, New York

Clocks (English Hall)

Durfee, Walter H. & Co. (Tubular Chime), Providence, R. I.

Grand Rapids Clock & Mantel Co. (also Clock Cases, Electric, etc.), Grand Rapids, Mich.

HOWARD, E. CLOCK CO., 373 Wash- ington, Boston, Mass. (See adv. on following page; branch offices, end of book)

Sempire Clock Co. ("Electrometer," No Winding Required), 7th & Hickory, St. Louis, Mo.

Waltham Clock Co. (Striking or Chiming on Gongs, Bells or Tubes), Waltham, Mass.

Clocks (Locomotive)

ASHCROFT MFG. CO., THE, 85, 87, 89 Liberty, New York, N. Y. Works, Bridgeport, Conn. (See adv. index, end of book)

Belfield, H. & Co., 435 N Broad, Phila., Pa.

CROSBY STEAM GAGE & VALVE 95 Oliver, Boston, Mass. (See adv. index & branch offices, end of book)

HOWARD, E. CLOCK CO., 373 Wash-
ington, Boston, Mass. (See adv. below &
branch offices, end of book)
Marsh, Jas. P. & Co., 224 Washington, Chicago,
Ill.
SCHAEFFER & BUDENBERG MFG.
Co., Foxboro, Mass. (See adv. index &
branch offices, end of book)
Thomas, Seth Clock Co., 49 Maiden lane, New
York. Works: Thomaston, Conn.

Clocks (Marine)

American Steam Gauge & Valve Mfg. Co., Bos-
ton, Mass.
Ansonia Clock Co., 11 Cliff, New York
ASHCROFT MFG. CO., THE, 85, 87,
89 Liberty, New York. Works, Bridgeport,
Conn. (See adv. index, end of book)
Chelsea Clock Co., 16 State, Boston, Mass.
CROSBY STEAM GAGE & VALVE CO.,
95 Oliver, Boston, Mass. (See adv. index &
branch offices, end of book)
Gilbert, W. L. Clock Co., Winsted, Conn.
HOWARD, E. CLOCK CO., 373 Wash-
ington, Boston, Mass. (See adv. below &
branch offices, end of book)
Marsh, Jas. P. & Co., 224 Washington, Chic-
ago, Ill.
New Haven Clock Co., New Haven, Conn.
Phelps, H. D., Ansonia, Conn.
SCHAEFFER & BUDENBERG MFG.
Co., Foxboro, Mass. (See adv. index &
branch offices, end of book)
Thomas, Seth Clock Co., 49 Maiden la, New
York. Works: Thomaston, Conn.
Waterbury Clock Co., Waterbury, Conn.

Clocks (Pneumatic)

American Clock Co., Wabash av & 20th, Chi-
cago, Ill.
Johnson Service Co., Milwaukee, Wis. (For
branch offices see Valve Mfrs.)

Clocks (Program)

Blodgett Clock Co., 141 Franklin, Boston, Mass.
Frick, Fred Clock Co., Waynesboro, Pa.
Herzog Teleseme Co., 51 W 24th, New York
HOWARD, E. CLOCK CO., 373 Wash-
ington, Boston, Mass. (See adv. below &
branch offices, end of book)
Johnson Service Co. ("Pneumatic"), Milwau-
kee, Wis.
Prentiss Clock Improvement Co., 49 Dey, New
York
Self-Winding Clock Co., 163 Grand av., Brook-
lyn, N. Y.
Standard Electric Time Co., Waterbury, Conn.

*Clocks (Secondary Electric)

HOWARD, E. CLOCK CO., 373 Wash-
ington, Boston, Mass. (See adv. below &
branch offices, end of book)

Clocks (Self-Winding Electric)

American Clock Co., Wabash av & 20th, Chicago,
Ill.
American Watchman's Time Detector Co., 234
B'way, New York
American Watchman's Time Detector Co., 45
Sheriff, Cleveland, O.

Blodgett Clock Co., 141 Franklin, Boston, Mass.
Frick, Fred Clock Co., Waynesboro, Pa.
Herzog Teleseme Co., 51 W 24th, New York
Illinois Clock Co., Bristol, Conn.
New York Standard Watch Co., 21 Maiden la,
New York
Recves Mfg. Co., New Haven, Conn.
Self-Winding Clock Co., 163 Grand av, Brook-
lyn, N. Y.
Sempire Clock Co., 7th & Hickory, St. Louis,
Mo.
Standard Electric Time Co., Waterbury, Conn.

Clocks (Synchronized Systems)

American Watchman's Time Detector Co., 45
Sheriff, Cleveland, O.
Bunnell, J. H. & Co., 20 Park pl, New York, &
Milford, Conn.
Herzog Teleseme Co., 51 W 24th, New York
HOWARD, E. CLOCK CO., 373 Wash-
ington, Boston, Mass. (See adv. below &
branch offices, end of book)
Magna Co., 120 W 31st, New York
Pettes & Randall Co., 150 Nassau, New York
Prentiss Clock Improvement Co. (Synchronized
System of Time Plants), 49 Dey, New York
Self-Winding Clock Co., 163 Grand av, Brook-
lyn, N. Y.
Sempire Clock Co., 7th c Hickory, St. Louis,
Mo.

*Clocks (Time Recorders)

HOWARD, E. CLOCK CO., 373 Wash-
ington, Boston, Mass. (See adv. below &
branch offices, end of book)

Clocks (Time-Recording System)

American Clock Co. (Electric), Wabash av &
20th, Chicago, Ill.
American Watchman's Time Detector Co., 234
B'way, New York
Automatic Time Stamp Co., 160 Congress, Bos-
ton, Mass.
Crouse-Hinds Co. ("Hawley"), Syracuse, N. Y.
International Time Recording Co. ("Rochester"),
Binghamton, N. Y.
Johnson Service Co. (Pneumatic), Milwaukee,
Sanford, C. E., 64 Broad, New York Wis.
Simplex Time Recorder Co. ("Simplex"), Gard-
ner, Mass.

Clocks (Tower)

HOWARD, E. CLOCK CO. (Angelus
Strikers, & quarter & Half-Hour Strikers),
373 Washington, Boston, Mass. "See adv.
below; branch offices, end of book)
Johnson Service Co. (Pneumatic), Milwaukee,
Wis.
Prentiss Clock Improvement Co., 49 Dey, New
York
Self-winding Clock Co., 163 Grand av., Brooklyn,
New York
Standard Electric Time Co. (Electric), Water-
bury, Conn.
Stevens, G. M., 15 Chardon, Boston
Thomas, Seth, Clock Co., 49 Maiden la, New
York. Works, Thomaston, Conn.

*Clocks (Warehouse)

ASHCROFT MFG. CO., THE, 85, 87,
89 Liberty, New York, N. Y. Works, Bridge-
port, Conn.

Clocks (Watchman's)

(See also Time Recorders.)

Altman & Co. ("The Colby"), 69 Dearborn, Chi-
cago, Ill.
American Watchman's Time Detector Co. ("The
Original"), 45 Sheriff, Cleveland, O.
Bunnell, J. H. Co., 20 Park pl., N. Y.
Buerk, J. E., 230 Wash'n, Boston, Mass.
Eco Magneto Clock Co., 289 Congress, Boston,
Mass.
Hausburg, E. O., 45 Maiden lane, New York.
Hersey Mfg. Co., 314 W 2d, Boston, Mass.
Herzog Teleseme Co., 51 W 24th, New York
Holtzer-Cabot Electric Co., Brookline, Mass.
Hoppe, Paul F., 34 Church, New York
HOWARD, E. CLOCK CO. (Elec-
tric), 373 Washington, Boston, Mass. (See
adv. below; branch offices, end of book)
Imhauser, E. & Co. (Portable & Electric, 206
B'way, New York
Nanz & Co., 127 Duane, New York
National Time Recorder Co., 240 W. Lake,
Chicago, Ill.
Newman Clock Co. (Stationary, Portable &
Electric), Masonic Temple, Chicago, Ill.
PATTENGELL, C. E. SON & CO., 116
John, New York
Pettes & Randall Co., 150 Nassau, New York
Prentiss Clock Improvement Co., 49 Dey, New
York
Riggs & Bro. (Electric & Portable), 310 Mar-
ket, Phila., Pa.
Rousseau Mfg. Co., 320 Mott av, New York
Sanford, Chas. E. (Night Watchman's Register),
64 Broad, New York
Self-Winding Clock Co., 163 Grand av, Brook-
lyn, N. Y.
Simplex Time Recorder Co. ("Simplex"), Pendu-
lum, etc.), Gardner, Mass.
Time Keeper Co. ("Argus"), 55 State, Chicago,
Ill.
Waggoner Watchman Clock Co., Grand Rapids,
Mich.
Western Electric Co., 259 S. Clinton, Chicago,
Ill. & 57 Bethune, N. Y.
Ziegler Apparatus Co., 200 Summer, Boston,
Mass.

Clocks & Watches (Dashboard)

Auto Rebuilding Co., 1530 College av, Indian-
apolis, Ind.
Chelsea Clock Co., 16 State, Boston, Mass.
Clark, A. N. & Son ("Hex"), Plainville, Conn.
McGiehan Odometer & Mfg. Co., 137 W 32d,
New York
Post & Lester Co. ("Regal"), Hartford, Conn.
Thorn Mfg. Co., Salem, Mass.
Wilson Auto Clock Co. (Inc.) (Illuminated), 935
Arch, Philadelphia, Pa.

Closets (Dry Earth)

Heap, William & Sons, Grand Haven, Mich.

Closets (Park)

American Steel House Co., 796 11th av, New
York

We have a brand new thing in a Magneto Watchman Clock. We have
recently sold systems to the Jordan Marsh Co., and Houghton & Dutton,
two of the largest department stores in the country. The Jordan system,
we believe, is the largest Magneto system in the world.

PLEASE WRITE US FOR PARTICULARS, MENTIONING HENDRICKS' COMMERCIAL REGISTER

THE E. HOWARD CLOCK COMPANY, Boston, New York and Chicago

Closets (Sanitary)

(See Water Closet Mfrs.; also Water Closet Trade Names)

Cloth (Bolting)

(See Bolting Cloth; also Wire Cloth)

Cloth (Window Shade)

Minetto Shade Cloth Co., Minetto, N. Y.

Clothes Dryers (Hot Air)

CANTON CLOTHES DRYER & MFG. Co., Canton, O. (See adv. below; branch offices, end of book)
Chicago Dryer Co., 346 Wabash av. Chicago, Ill.
Hawkins, Rollyer Co., 326 E. Market, Indianapolis, Ind.

Clothes Dryers (Steam, Hot Water or Gas)

CANTON CLOTHES DRYER & MFG. Co., Canton, O. (See adv. below; branch offices, end of book)
Chicago Dryer Co., 381 Wabash av. Chicago, Ill.
Dryer Mfg. Co. ("Chicago," also Hot Air), 204 E 26th, New York
Maunen & Esterly Co., 2247 St. Clair, Cleveland, O.
Metal Fire Proof Clothes Dryer Co., 204 E 26th, New York
Steel Roll Machine Co., S S Canal, Chicago, Ill.

Clothes Drying Frames

CANTON CLOTHES DRYER & MFG. Co., Canton, O. (See adv. below; branch offices, end of book)
Chapman, C. A. ("Superior" Balcony, Veranda, Window, etc.), Geneva, N. Y.
Chicago Dryer Co., 346 Wabash av. Chicago, Ill.
Cooper & McKee, 119 Lorimer, Brooklyn, N. Y.
Dryer Mfg. Co., 204 E 26th, New York
Fleck, M., 442 Pleasant av. New York
Hill Dryer Co. (Balcony), Worcester, Mass.
Mastercross Co. (Umbrella Barring; also for Fire Escapes, Roof or Lawn), 40 Dearborn, Chicago, Ill.
Moulton, C. W. & Co. (Folding, etc.), Somerville, Mass.
Nashua Novelty Works, Nashua, N. H.
Palmer, C. F., 171 Blandine, Utica, N. Y.
Phillips, A. J. Co., Fenton, Mich.
Smith, G. W., 132 Manhattan, New York

*Clothes Lines

(See also Rope, Cotton, etc.)

SILVER LAKE CO., 78 Chauncey, Boston, Mass. See adv. index & branch offices, end of book

*Clothes Lines (Wire)

AMERICAN STEEL & WIRE CO., Rookery, Chicago, Ill. See adv. index & branch offices, end of book

Clothes Reel Centers (Iron)

Adams Company, Dubuque, Ia.

RUMSEY & CO. (Ltd.) (Cast Iron Revolving), Seneca Falls, N. Y. (See adv. index & branch offices, end of book)

*Clothing (Oiled)

CARPENTER, GEO. B. & CO., 202 S Water, Chicago, Ill. (See adv. index, end of book)

Clusters (Fixture)

Benjamin Electric Mfg. Co. ("Wireless"), 42 W Jackson boul, Chicago, Ill., & 27 Thames, New York
Bryant Electric Co., Bridgeport, Conn.
Dale Co. ("Weeks"), 352 W 13th, New York
Dayton Mfg. Co., Dayton, O.
Farles Mfg. Co. ("Farles," Porcelain), Decatur, Ill.
FRINK, I. P., 551 Pearl, New York. (See adv. index, end of book)
Gleason, E. P. Mfg. Co., 37 Murray, New York
GENERAL ELECTRIC CO., Schenectady, N. Y., & 44 Broad, New York. (See adv. index & branch offices, end of book)
Harter & Co., 146 5th av, Chicago, Ill.
Hubbell, Harvey, Bridgeport, Conn.
Post-Glover Electric Co., 314 W 4th, Cincinnati, O.
Roberts, H. C. Electric Supply Co., 905 Arch, Philadelphia, Pa.
Walsh, Owen, Mfg. Co., 21 Roosevelt, New York
Wheeler Reflector Co., 156 Pearl, Boston, Mass.

Clutches, Arc Lamp.

Paiste, H. T. Co., 32d & Arch, Phila., Pa.
Phila. Electrical & Mfg. Co., 2011 Market, Phila., Pa.
Turner Brass Works, 66 Michigan, Chicago, Ill.
Western Electric Co., 259 S Clinton, Chicago, Ill., & 57 Bethune, N. Y.

Clutches (Electric)

ELECTRIC CONTROLLER & SUPPLY Co., Central & Giddings, Cleveland, O. (See adv. index, end of book)
Williams Electric Machine Co., Akron, O.

Clutches (Friction)

(See also Pulleys, Friction Clutch; also Machinery, Power Transmitting)
Akron Friction Clutch Co., Akron, O.
ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)
American Tool & Machine Co. ("Worrall," Improved), 109 Beach, Boston, Mass.
American Twist Drill Co. ("Worrall"), Laconia, N. H.
AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)
Automatic Clutch Co. (Automatic), Akron, O.
Barnard & Leas Mfg. Co. ("Barnard"), Moline, Ill.
Bauroth Bros., Springfield, Ohio.

Becker-Brainard Milling Machine Co., Hartford, Conn.
Brightman Machine Co., Cleveland, O.
BROWN, A. & F. CO., 25 Dey, New York. Works: Elizabethport, N. J. (See adv. index, end of book)
Brown Clutch Co., Elyria, O.
Caldwell, H. W. & Son Co., 17th & Western av, Chicago, Ill.
Cambria Shafting & Machine Works, Marshall bel Cambria, Phila., Pa.
Carruthers-Fithian Clutch Co., Grove City, Pa.
Christman Co., Massillon, O.
Cresson, Geo. V. Co., Allegheny av W of 17th, Phila., Pa., & West St. bldg, New York
CUTLER-HAMMER MFG. CO., Mil-waukee, Wis. (See adv. index & branch offices, end of book)
DODGE MFG. CO., Mishawaka, Ind. (See adv. index & branch offices, end of book)
Eastern Machinery Co., New Haven Conn.
Edgemont Machine Co. ("Edgemont"), Dayton, Emerson Mfg. Co., Lawrence, Mass. O.
Essmuller Mill Furnishing Co. ("Peerless"), St. Louis, Mo.
Falls Rivet & Machine Co., Cuyahoga Falls, O.
Faneuil Watch Tool Co. ("The Rivett"), 1 Brooks, Br., Boston, Mass.
Filer & Stowell Co., Home Office, Milwaukee, Wis.
Frost Mfg. Co. ("Frost"), Galesburg, Ill.
Gifford-Wood Co., Hudson, N. Y., & Arlington, Mass.
Hartford Machine Screw Co., Hartford, Conn.
Hill Clutch Co., ft 58th, N W, Cleveland, O.
Hunter, Jas. Machine Co., North Adams, Mass.
Jacobson Machine Co., Warren, Pa.
Johnson, Carlyle Machine Co. ("Johnson"), Hartford, Conn.
Jones & Laughlin Steel Co., Pittsburg, Pa.
Klein, Chas. O. ("The Bull Dog"), 2850 N Marshall, Phila., Pa.
Link Belt Co. ("Ewart"), W 39th cor Stewart av, Chicago, Ill., & 299 B'way, New York
McMahon & Co., Worcester, Mass.
Medart Patent Pulley Co., 3500 DeKalb, St. Louis, Mo.
MINNEAPOLIS STEEL & MACHIN-ery Co., Minneapolis, Minn. (See adv. index & branch offices, end of book)
Moore & Lorenz Co., 816-822 Fulton, Chicago, Ill.
Moore & White Co., 15th & Lehigh av, Phila., Pa.
Nordberg Mfg. Co. (The Claussen), Milwaukee, Wis.
Oesterlein Machine Co., 2850 Spring Grove av, Cincinnati, O.
Platt Iron Works Co., Dayton, O., & 100 B'way, New York
Poole Engineering & Machine Co., Baltimore, Md.
Rivett Lathe Mfg. Co. ("The Rivett"), Brighton, Boston, Mass.
Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Phila., Pa.
Skillin & Richards Mfg. Co. ("Muir" Steel Plate, etc.), 127 Fulton, Chicago, Ill.
Smith, T. H. Cotton Mill (Phillips Automatic), Jamestown, N. Y.
Smith, Jas. Woollen Machinery Co. (Inc.), 413 Race, Phila., Pa.
Snow & Petrelli Mfg. Co. ("Joe's"), New Haven, Conn.
Strait, H. N. Mfg. Co., Kansas City, Mo.
Taper Sleeve Pulley Works, Erie, Pa.



THE CANTON SANITARY DRYER

MADE IN ANY SIZE AND STYLE DESIRED AND
HEATED BY STOVE, GAS AND STEAM.

The Canton System of Heating and Ventilating is absolutely perfect. The cold air, steam and moisture is taken from bottom of cabinet, through stove, then up smoke pipe and out chimney. Other cabinets are ventilated into smoke pipe direct—the results being unsatisfactory and unsanitary drying of clothes. Send for Catalogue

THE CANTON CLOTHES DRYER AND MFG. CO

CANTON, OHIO.

YOU MAKE NO MISTAKE
IN BUYING THE

"O. V. C." CLOTHES LINE BRACKET



(Patent applied for)

The "O. V. C." Bracket swung to the interior of kitchen and the line is being pushed out in order to attach another piece of washing.

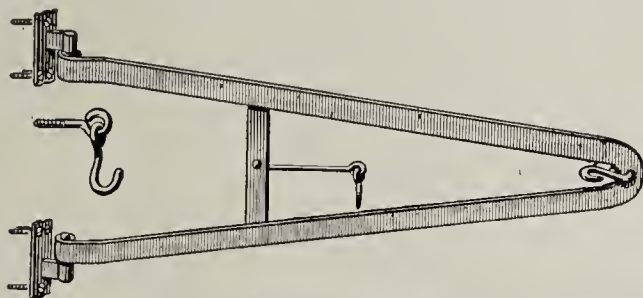
WHAT IT WILL DO.

Will carry a line (which works on a pulley) to and from the inside of window thereby rendering it possible to hang any amount of washed pieces for drying without the necessity of leaving the house or leaning out of windows, and this work can be done while sitting.

BECAUSE—Correct in Design, Saves Lives, Doctors' Bills, Time and Money; made of galvanized steel, weather-proof.

Your dealer has (or can get) the "O. V. C." Bracket. If he won't, we will express you one prepaid, together with full instructions as to its use, on receipt of **Price, \$2.00.**

For centuries the wash day has been looked forward to as one of hard labor. Now it is all overcome. With the use of the "O. V. C." Bracket a woman can hang as many clothes on a line as it will hold, and without the necessity of trotting into the yard every time a washing is to be hung, or leaning out of the window, being in peril of falling out.



(Patent applied for)



(Patent applied for)

The "O. V. C." Bracket adjusted and hanging on the outside with a full line of clothes, being dried.

WHAT IT SAVES.

TIME—Because the woman does not leave the house in order to attach the washed pieces to line.

DOCTORS' BILLS—Because she does not lean out of the window any more during the wash day, therefore no possibility of catching cold.

TROUBLE—It is a regular Peacemaker, and any woman who does the washing will appreciate an "O. V. C." Bracket, because it eliminates unnecessary responsibilities from her daily routine.

S. I. OVICI & CO., Sole Agents, 401 Broadway, N. Y.

TUOHY BROS. CO., 95 Liberty, New York. (See adv. index, end of book)
Turner Machine Co., 2049 N 2d, Phila., Pa.
Webster Mfg. Co., 1075 W 15th, Chicago, Ill.
WELLER MFG. CO., 124 E North av, Chicago, Ill. (See adv. index, end of book)
Whitman Mfg. Co., Garwood, N. J.

Clutches (Gas Engine)

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)
Carruthers-Fithian Clutch Co., Grove City, Pa.
Grand Rapids Gas Engine & Yacht Co. (Friction Reversible), Grand Rapids, Mich.
Johnson Carlyle Machine Co. (Friction), Hartford, Conn.
Smith, T. H. Cotton Mill ("Phillips"), Jamestown, N. Y.
Whitman Mfg. Co., Garwood, N. J.

Clutches (Magnetic)

Akron Friction Clutch Co., Akron, O.
CUTLER-HAMMER CLUTCH CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)
DODGE MFG. CO., Mishawaka, Ind. (See adv. index & branch offices, end of book)

Coal Buckets (Automatic Steam)

MEAD-MORRISON MFG. CO., Works & General Offices, Main c 1st, Cambridge (Boston), Mass. (See adv. index & branch offices, end of book)
SCAIFE, WM. B. & SONS CO., 221 1st av, Pittsburg, Pa. (See adv. index, end of book)

Coal Chutes

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)
Chappell Furnace Co. ("Majestic," Steel), Morrochi, Mich.
Consolidated Iron Works, Hoboken, N. J.
Corrigan, McKinney & Co., Scottdale, Pa.
Cyclopan Iron Works, Jersey City, N. J.
Eagle Iron Works (for Mines), Des Moines, Ia.
FAIRBANKS, MORSE & CO., Franklin & Monroe, Chicago, Ill. (See adv. index & branch offices, end of book)
Helmick Foundry & Machine Co., Fairmont, Hendrick Mfg. Co., Carbondale, Pa.
Howe Scale Co. of Illinois, 1315 Wabash av, Chicago, Ill.
Hunt, C. W. Co., 45 B'way, New York, Works: West New Brighton, S. I., N. Y.
Grand Rapids Foundry Co. ("Roenius," one piece steel), Grand Rapids, Wis.
KOVEN, L. O. & BRO., 50 Cliff, New York. (See adv. index, end of book)
Lanz, M. & Sons (Steel), Carson & 29th, Pittsburg, Pa.
LYON METALLIC MFG. CO., Aurora, Ill. (See adv. index, end of book)
Monongahela Mfg. Co., Monongahela, Pa.
Pursell, P. M. Mfg. Co., 802 Beecher, Indianapolis, Ind.
RIESECK, P., Allegheny av & Rebecca, Allegheny, Pa. (See adv. index, end of book)
Sackett Screen Co., Fredonia, N. Y.
SCAIFE, WM. B. & SONS CO., 221 1st av, Pittsburg, Pa. (See adv. index, end of book)
Sheet Metal & Supply Co., Lancaster, Pa.
Teller, R. K., Unadilla, N. Y.
Union Iron Works, Hoboken, N. J.
WRIGHT WIRE CO., Worcester, Mass. (See adv. index & branch offices, end of book)

Coal Chutes (Locomotive Coal-ing)

FAIRBANKS, MORSE & CO., Franklin & Monroe, Chicago, Ill. (See adv. index & branch offices, end of book)
KOVEN, L. O. & BRO., 50 Cliff, New York. (See adv. index, end of book)
Link Belt Co., W 39th cor Stewart av, Chicago, Ill., & 299 B'way, New York
Williams, White & Co., Moline, Ill.

Coal Cutting Machines

(See Machines, Coal Cutting.)

Coal Dock Outfits

(See Conveyors, Coal; also Tubs, Hoisting; also Tubs, Self-Dumping; also Derricks; also Hoisting Engines; also Gas & Gasoline Engines.)

Coal Handling Plant Construction

(See Machinery, Coal & Ore Handling; also Conveyors, Coal & Ash Handling.)

*Coal Handling Plants (Automatic)

NATIONAL HOISTING ENGINE CO., Harrison, N. J. (See adv. index & branch offices, end of book)

Coal Handling Plants (Complete)

(See Coal Storage Plant Construction)

Coal Hole Covers

AMERICAN BRAKE SHOE & FOUNDRY CO., 170 B'way, New York, Works & Sales Office: Chicago Heights, Ill. (See adv. index & branch offices, end of book)
AMERICAN MASON SAFETY TREAD Co. (Safety), 702 Old South bldg, Boston, Mass. (See adv. index & branch offices, end of book)

AMOS, CHARLES & CO., 94 W. Larned, Detroit, Mich. (See adv. index, end of book)

Barber Mfg. Co. (with or without Glass), Ashtabula, O.
BETHLEHEM FOUNDRY & MACHINE Co., Front, South Bethlehem, Pa., & 149 B'way, New York. (See adv. index, end of book)

CANTON FOUNDRY & MACHINE CO. (Solid & Ventilated), Canton, O. (See adv. index, end of book)

CHICAGO SIDEWALK LIGHT CO., 101 Washington, Chicago, Ill. (See adv. index, end of book)

Dauchy Iron Works, 84 Illinois, Chicago, Ill.
Hayes Foundry Co., Lynn, Mass.
Love Bros. (Inc.), Aurora, Ill.
McLagon Foundry Co., New Haven, Conn.
Mesker, Geo. L. & Co., Evansville, Ind.
Palmer, C. F., Utica, N. Y.
Paxton & Vierling Iron Works, Omaha, Neb.
Vierling, McDowell & Co., 23d & Stewart av, Chicago, Ill.

*Coal Hole Covers (Safety)

AMERICAN MASON SAFETY TREAD Co., 702 Old South bldg., Boston, Mass. (See adv. index & branch offices, end of book)

Coal Mining Machinery

(See Machinery, Coal Mining.)

Coal Storage Plant Construction

BROWN HOISTING MACHINERY CO., Cleveland, O., & 26 Cortlandt, New York. (See adv. index, end of book)

Dodge Coal Storage Co. (Complete Plants), Nicetown, Philadelphia, Pa.

HAYWARD CO., THE, 99 Cedar, New York. (See adv. index, end of book)
Macdonald Engineering Co., Monadnock blk, Chicago, Ill.

MEAD-MORRISON MFG. CO., Cambridge (Boston), Mass., & 11 B'way, New York. (See adv. index & branch offices, end of book)

Roberts & Schaefer Co. (Engineers' & Contractors' Specialties, Washeries, Tipples, Power Houses, Bins & Coaling Stations), Old Colony bldg, Chicago, Ill.

WELLMAN-SEEVER-MORGAN CO., Cleveland, O., & Akron, O. (See adv. index, end of book)

Coal Tar Products

Armitage Mfg. Co., 3200 Williamsburg av, Richmond, Va.
Barrett Mfg. Co., Land Title bldg, Phila., Pa.
Bartholomew Roofing Co. (Dealers), 61 Jefferson, Memphis, Tenn.

CABOT, SAMUEL, 141 Milk, Boston, Mass., & 28 Dearborn av, Chicago, Ill. (See adv. index & branch offices, end of book)
City Gas Co. (Gas & Coal Tar), Norfolk, Va.
Huggins, Jas. & Son (For Rubber Mfrs.), Malden, Mass.

Lewis Roofing Co., Rock Island, Ill.
Lyons, Jas., Evergreen, Boro. of Queens, New York

Milwaukee Gaslight Co., Milwaukee, Wis.
MUNN-PRICE CO., 413 W. B'way, New York. (See adv. index & branch offices, end of book)

Nashville Chemical Co., 919 N Front, Nashville, Tenn.

National Coal Tar Co., 17 Battery pl, N. Y.
Noble, H. & Co., 623 S Caroline, Baltimore, Md.
Schoellkopf, Hartford & Hanna Co., Buffalo, N. Y., & 100 William, New York

Stelwagon Mfg. Co., 826 Schuykill av, Phila., Pa.
Susquehanna Roofing Mfg. Co., Cly, Pa.
Warren Bros. Co., 93 Federal, Boston, Mass.
Warren Chemical & Mfg. Co., 17 Battery pl, New York

WATSON, H. F. CO., Erie, Pa. (See adv. index & branch offices, end of book)

*Coal Tipples & Trestles (Steel)

SCAIFE, WM. B. & SONS CO., 221 1st av, Pittsburg, Pa. (See adv. index, end of book)

Coal Tubs (Self-Dumping)

(See Tubs, Self-Dumping.)

Coal Washing Machinery

(See Machinery, Coal Washing.)

Coal & Coke Crushing & Screening Plants

Heyl & Patterson, 51 Water, Pittsburg, Pa.
Phillips Mine & Mill Supply Co., Pittsburg, Pa.
Power & Mining Machinery Co., 52 William, New York; Works: Cudahy, Wis.

Coal & Ore Handling Machinery

(See Conveyors, Coal; also Machinery, Coal & Ore Handling.)

Coaling Pier Construction

Snare & Triest Co., 143 Liberty, New York

Coaling Stations

(See Coal & Ore Handling Machinery; also Conveyors, various kinds; also Coal Storage Plant Construction)

Coating (Rope & Cable)

(See Wire Rope Coating & Lubricant)

Coatings (Cast Iron Pipe)

Armitage Mfg. Co., Richmond, Va.
Riesenman Mfg. Co., Ltd. ("Eclipse"), Franklin, Pa.

Cobblers' Outfits

Enterprise Mfg. Co., N. 3d, cor. Dauphin, Philadelphia, Pa.
Wrightsville Hardware Co., Wrightsville, Pa.
Sacks, Louis, Newark, N. J.
Root Bros. Co., Plymouth, Ohio.

Cocks (Air)

Buckeye Iron & Brass Works, Dayton, O.
Detroit Brass Works, Brooklyn av., Detroit, Mich.
Eagle Brass Works, Detroit, Mich.
LUNKENHEIMER CO., General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

McRae & Roberts Co., Detroit, Mich.
Michigan Lubricator Co., Detroit, Mich.
Nolte Brass Co., Springfield, O.
Pittsburg Brass Mfg. Co. (For Mines), Pittsburg, Pa.

Queen City Brass & Iron Works, Cincinnati, O.
Roberts Brass Mfg. Co., 1409 Fort st., W., Detroit, Mich.
SCHAEFFER & BUDENBERG MFG. Co., Foxboro, Mass. (See adv. index & branch offices, end of book)

Cocks (Ale & Beer)

Asbell, S. J. Co., Paterson, N. J.
 Bishop & Babcock Co., Cleveland, O.
 Chambers & Ainslee, 2 Commerce, Newark, N. J.
 Clark Novelty Co., Rochester, N. Y.
 Cleveland Faucet Co., Cleveland, O.
 Cleveland Brass Co., Cleveland, O.
 Gleason, E. P. (Estate of), 20 W Houston, New York
 Hamilton, Jno. (Beer or Bar), Bridgeport, Conn.
 Haydenville Co., Haydenville, Mass.
 Homer Brass Works (Inc.), 231 Race, Phila., Pa.
 Lamp & Miller Mfg. Co., Milwaukee, Wis.
 Landers, Frary & Clark, New Britain, Conn.
LUNKENHEIMER CO., General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)
 McCambridge & Co., Cherry, Philadelphia, Pa.
 McNab & Harlin Mfg. Co., 56 John, N. Y.
 Michigan Brass & Iron Works, Detroit, Mich.
 Mullany's, Jas. Sons, 141 E 25th, N. Y.
 Owen & Salter, N 12th & Buttonwood, Philadelphia, Pa.
 Peck Bros. & Co., 125 Chestnut, New Haven, Conn.
 Pioneer Brass Works, Indianapolis, Ind.
 Pleuger & Henger Mfg. Co., St. Louis, Mo.
 Powhatan Brass & Iron Works, Charlestown, W. Va.
 Strater, Herman & Sons, Boston, Mass.
 Varwig Mfg. Co., 120 Opera pl, Cincinnati, O.
 Wolff, L. Mfg. Co., 117 W Lake, Chicago, Ill.

Cocks (Ball)

Adee, Fred & Co., 44 Cliff, New York
 Ahrens & Ott Mfg Co., Louisville, Ky.
 Albany Brass & Iron Co., Albany, N. Y.
 American Brass Works, 426 Plum, Cincinnati, O.
 Badger Brass Mfg. Co., Kenosha, Wis.
 Bailey-Farrell Mfg. Co., 3d av & Ross, Pittsburgh, Pa.
 Barrett, Jas. Mfg. Co., 48 Pearl, Boston, Mass.
 Birkery, Cornelius J., Hartford, Conn.
 Boston Brass Co. ("B. B." High Pressure), 36 Oliver, Boston, Mass.
 Boyts, Porter & Co., Connellsville, Pa.
 Cahill-Swift Mfg. Co., 20 S 12th, St. Louis, Mo.
 Crampton-Farley Brass Co., Kansas City, Mo.
 Columbus Brass Co., Columbus, O.
 Connolly Supply Co. ("Connolly"), 1073 Atlantic av., Brooklyn, N. Y.
 Cooper, W. S. Brass Works, 437 N 12th, Phila., Pa.
 Coyne & Delany, 303 Rodney, Brooklyn, N. Y.
 Crane Co. (Est. 1855), 519 S. Canal, Chicago, Ill. (See adv. index and branch offices, end of book)
 Dalton & Ingersoll Co., 175 High, Boston, Mass.
 Dearborn Brass Co., Cedar Rapids, Ia.
 D'Este, Julian & Co., 24 Canal, Boston, Mass.
 Douglas, Jno. Co., 900 Poplar, Cincinnati, O.
 Edwardsville Brass Co., Edwardsville, Ill.
 Eureka Valve Co. ("O-K," Self-Closing), 19 High, Boston, Mass.
 Exeter Brass Works, Exeter, N. H.
 Forest City Brass Works ("Cleveland"), Cleveland, O.
 Foster, F. W. Mfg. Co., 99 Haverhill, Boston, Mass.
 Frost Mfg. Co. ("No. 577"), Kenosha, Wis.
 Globe Brass Works, Detroit, Mich.
 Goelitz, H. G., Oak Park, Ill.
 Haines, Jones & Cadbury Co., 1136 Ridge av, Phila., Pa.
 Haydenville Co., Haydenville, Mass.
 Heap, Wm. & Sons, Grand Haven, Mich.
 Hoffman-Billings Mfg. Co., 96 2d, Milwaukee, Wis.
 Hoffman, B. Mfg. Co., 257 6th, Milwaukee, Wis.
 Homer Brass Works (Inc.), 231 Race, Phila., Pa.
 Huxley Valve Co. ("Huxley"), 145 Main, Buffalo, N. Y.
 Hyland, W. J. Mfg. Co. (Clark), Springfield, Mass.
 Ideal Mfg. Co., Detroit, Mich.
 Illinois Malleable Iron Co., 30 W Monroe, Chicago, Ill.
 Jones, Owen H., Hartford, Conn.
 Libby, Harlow & Co., 69 Pearl, Boston, Mass.
 McCambridge & Co. (Ltd.), 523 Cherry, Phila., Pa.
 McDonald, A. Y. & Morrison Mfg. Co., Du-buque, Ia.
 Meyer-Sniffen Co., 5 E 19th st, N. Y.
 Milwaukee Brass Mfg. Co., Milwaukee, Wis.

Mott, J. L. Iron Works, 118 5th av
 Mowry & Phillips, 220 Congress, Boston, Mass.
 Mueller, H. Mfg. Co., Decatur, Ill.
 National Brass & Metal Co., Minneapolis, Minn.
 National Supply Co., Toledo, O.
 Nelson, N. O. Mfg. Co., 8th & St. Charles, St. Louis, Mo.
 Noppel Pump Co., Hartford, Conn.
 Ohio Pump & Brass Co. ("Triumph"), Columbus, O.
 Oswego Bronze & Foundry Co., Oswego, N. Y.
 Park & McKay Co., Detroit, Mich.
 Peck Bros. & Co., 125 Chestnut, New Haven, Conn.
 Phoenix Brass Foundry Co., Hartford, Conn.
 Plumbing & Steam Fitting Supply Co., Minneapolis, Minn.
 Powell, Wm. Co., 2525 Spring Grove av, Cincinnati, O.
 Powhatan Brass & Iron Works, Charlestown, W. Va.
 Register's, J. Sons Co., Baltimore, Md.
 Rumsey, L. N. Mfg. Co., St. Louis, Mo.
 Ryan, J. J. & Co., 105 S Jefferson, Chicago, Ill.
 Savill, Thos. & Sons, 11th & Wood, Phila., Pa.
 Scully, W. J. & Co., Detroit, Mich.
 Stebbins, E. Mfg. Co., Springfield, Mass.
 Street & Kent Mfg. Co., 45 Fulton, Chicago, Ill.
 Syracuse Faucet & Valve Co. ("Syracuse"), Syracuse, N. Y.
 Thomas Brass & Iron Co., Waukegan, Ill.
 Trenton Brass & Machine Co., Trenton, N. J.
 Union Brass & Metal Mfg. Co., St. Paul, Minn.
 Union Brass Works Co. ("U. B."), 7 Sherman, Chas'n, Boston, Mass.
 Universal Tool Co., Springfield, Mass.
 Webb, F. W. Mfg. Co., 50 Elm, Boston, Mass.
 Western Brass Mfg. Works, 21st & Rockwell, Chicago, Ill.
 Wolff, L. Mfg. Co., 117 W. Lake, Chicago, Ill.
 Wolverine Brass Works. ("Dale"), Grand Rapids, Mich.
 Young, Jos. H. ("N. C." Glass Slot), 80 High, Boston, Mass.
 Zero Valve & Brass Mfg. Co., Buffalo, N. Y.

Cocks (Basin)

Bashlin Co. (Self-Closing), Warren, Pa.
 Dearborn Brass Co. (Self-Closing), Cedar Rapids, Ia.
 Eagle Brass Works, Detroit, Mich.
 Federal Manufacturing Co., Old Colony bldg, Chicago, Ill.
 Mayor, Lane & Co., 128 White, New York
 Meyer-Sniffen Co., 11 W. 36th, N. Y.
 Mott, J. L. Iron Works, 118 5th av, New York
 Union Brass & Metal Mfg. Co., St. Paul, Minn.

Cocks (Bath)

Eagle Brass Works, Detroit, Mich.
 Mott, J. L. Iron Works, 118 5th av, New York.

*Cocks (Bibb Nose)

LUNKENHEIMER CO., General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)
WILLIAMS, D. T. VALVE CO., 904 B'way, Cincinnati, O. (See adv. index, end of book)

Cocks (Blow-Off)

Best Mfg. Co., 25th and A. V. Ry., Pittsburgh, Pa.
CHICAGO PNEUMATIC TOOL CO., ("Little Giant" Pneumatic, for Locomotive Rollers), Fisher bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
 Crane Co. (Est. 1885), 519 S. Canal, Chicago, Ill. (See adv. index and branch offices, end of book)
 Eynon-Evans Mfg. Co., 1519 Clearfield, Phila., Pa., & 32 B'way, New York
 Standard Steam Specialty Co. (Utility), 542 W B'way, New York

Cocks (Corporation)

American Brass Works, 426 Plum, Cincinnati, O.
 Anderson Coupling Co. ("Anderson"), Portland, Conn.
 Bailey-Farrel Mfg. Co., 3d av & Ross, Pittsburgh, Pa.
 Belfield, H. & Co., 435 N. Broad, Phila., Pa.
 Buckeye Iron & Brass Works, Dayton, O.
 Campbell, J. B. Brass Works, Erie, Pa.

Central Brass Works, 322 W Pearl, Cincinnati, O.
 Chambers & Ainslee, 2 Commerce, Newark, N. J.
 Clark Metallic Mfg. Co., Rochester, N. Y.
 Cleveland Bronze & Brass Works, Cleveland, O.
 Collins-Gunther Co., San Antonio, Tex.
 Columbus Brass Co., Columbus, O.
 Crane Co. (Est. 1855), 519 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
 Crescent Mfg. Co., Connellsville, Pa.
 Dailey, J. A., Detroit, Mich.
 Darling Pump & Mfg. Co., Williamsport, Pa.
 Dart, E. M. Mfg. Co., Providence, R. I.
 Detroit Brass Works, Detroit, Mich.
 Eastwood Wire Mfg. Co., Belleville, N. J.
 Elkhart Brass Mfg. Co. (Stop), Elkhart, Ind.
 Everhart Brass Works, Scranton, Pa.
 Farnan Brass Works, Cleveland, O.
 Forest City Brass Works, Cleveland, O.
 Gilmour, J. Morrison, 164 W 120th
 Glauber Brass Mfg. Co., Cleveland, O.
 Gleason, E. P. Mfg. Co., 37 Murray, New York
 Globe Brass Works, Detroit, Mich.
 Haines, Jones & Cadbury Co., 1136 Ridge av, Phila., Pa.
 Hamilton, Jno., Bridgeport, Conn.
 Hamlin & Emery Brass Co., 26 Island, Boston, Mass.
 Hartman Co., 1231 N Front, Phila., Pa.
 Haydenville Co., Haydenville, Mass.
 Hays Mfg. Co., Erie, Pa.
 Hoffman, B. Mfg. Co., Milwaukee, Wis.
 Homer Brass Works (Inc.), 231 Race, Phila., Pa.
 Humphreys Mfg. Co., Mansfield, O.
 Jarecki Mfg. Co., Erie, Pa.
 Kelly & Jones Co., 137 Water, Pittsburg, Pa.
 Kinsey & Mahler Co., Peoria, Ill.
 Lamp & Miller Mfg. Co., Milwaukee, Wis.
 Landers, Frary & Clark, New Britain, Conn.
LUNKENHEIMER CO., General Offices, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)
 McCambridge & Co., 523 Cherry, Phila., Pa.
 McDonald, A. Y. & Morrison Mfg. Co., Du-buque, Iowa
 McKenny & Waterbury Co., 181 Franklin, Boston, Mass.
 McNab & Harlin Mfg. Co., 56 John, New York
 McRae & Roberts Co., 227 Campbell av, Detroit, Mich.
 Mayor, Lane & Co., 128 White, N. Y.
 Meyer-Sniffen Co., 5 E 19th, N. Y.
 Michigan Brass & Iron Works, Detroit, Mich.
 Mueller, H. Mfg. Co., Decatur, Ill.
 Mullaney's Jas. Sons, 141 E 25th, N. Y.
 National Brass & Metal Co., Minneapolis, Minn.
 Nichol, Thos. J. & Co., Cincinnati, O.
 Nolte Brass Co., Springfield, O.
 Ohio Pump & Brass Co., Columbus, O.
 Oil Well Supply Co., Pittsburg, Pa.
 Peck Bros. & Co., 125 Chestnut, New Haven, Conn.
 Pioneer Brass Works, Indianapolis, Ind.
 Pleuger & Henger Mfg. Co., St. Louis, Mo.
 Powell, Wm. Co., 2531 Spring Grove av, Cincinnati, O.
 Powhatan Brass & Iron Works, Charlestown, W. Va.
 Register's, J. Sons Co., Baltimore, Md.
 Rundle-Spence Mfg. Co., Milwaukee, Wis.
 Sandusky Plumbing & Boiler Co., Sandusky, O.
 Schutte & Korting Co., N 12th & Thompson, Philadelphia, Pa.
 Smith, A. P. Mfg. Co. (Also Curb), Newark
 Spence Mfg. Co., S Milwaukee, Wis.
 Standard Brass Works, Detroit, Mich.
 Standard Sanitary Mfg. Co., Bessemer bldg, Pittsburg, Pa.
 Stebbins, E. Mfg. Co., Springfield, Mass.
 Street & Kent Mfg. Co. ("S. & K."), 45 Fulton, Chicago, Ill.
 Thomas Brass & Iron Co., Waukegan, Ill.
 Union Water Meter Co., Worcester, Mass.
 United Brass Mfg. Co., Cleveland, O.
 Victor Excelsior Brass Works, 128 White, New York
 Victor Supply Co. ("Abbott"), Springfield, O
 Walterscheid Bros., Wichita, Kans.
 Walworth Mfg. Co., 132 Federal, Boston
 Weir & Craig Mfg. Co., 2423 Wallace, Chicago, Ill.
 Western Tube Co. (Also Meter.) Kewanee, Ill.
 Wolff, L. Mfg. Co., 117 W Lake, Chicago, Ill.

Cocks (Curb)

Anderson Coupling Co. ("Anderson") Portland, Conn.
 Nolte Brass Co., Springfield, O.

Cocks (Cylinder)

Danville F'dry & Mach. Co. ("Hammer's" Automatic), Danville, Ill.
LUNKENHEIMER CO., General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)
 Roberts Brass Mfg. Co., 1409 Fort st., W. Detroit, Mich.
SCHAEFFER & BUDENBERG MFG. Co. (Traction Engine, etc.), Foxboro, Mass. (See adv. index & branch offices, end of book)

*Cocks (Filter Press)

LUNKENHEIMER CO., General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

*Cocks (Four-Way)

SCHAEFFER & BUDENBERG MFG. Co. (Nickel Plated), Foxboro, Mass. (See adv. index & branch offices, end of book)

*Cocks (Gas Engine)

Haydenville Co., Haydenville, Mass.
LUNKENHEIMER CO., General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

Cocks (Gas Meter)

American Meter Co., 561 W 47th, New York
 Campbell, J. B. Brass Works, Erie, Pa.
 Crescent Mfg. Co. (Service & Meter), Connellsville, Pa.
 Eagle Brass Works (for Standard & Union Meter), Detroit, Mich.
 Eaton, Cole & Burnham Co., Bridgeport, Conn.
 Elkhart Brass Mfg. Co., Elkhart, Ind.
 Forest City Brass Works, Cleveland, O.
 McRae & Roberts Co., Detroit, Mich.
 Ohio Pump & Brass Co., 18th & Oak, Columbus, O.
 Pioneer Brass Works, Indianapolis, Ind.

Cocks (Gas Service)

American Meter Co., 561 W 47th, New York
 American Safety Lamp & Mine Supply Co., Scranton, Pa.
 Bailey-Farrel Mfg. Co., 3d av & Ross, Pittsburgh, Pa.
 Belfield, H. & Co., 435 N Broad, Philadelphia, Pa.
 Boston Steam Specialty Co., 170 Congress, Boston, Mass.
 Buckeye Iron & Brass Works, Dayton, Ohio
 Campbell, J. B. Brass Works, Erie, Pa.
 Chambers & Ainslee, 2 Commerce, Newark, N. J.
 Clarke, Rob't, 98 Schermerhorn, Brooklyn, N. Y.
 Columbus Brass Co. ("Acorn"), Columbus, O.
 Connolly Supply Co., 1071 Atlantic av, Brooklyn, N. Y.
 Cox Brass Mfg. Co., Albany, N. Y.
 Crane Co. (Est. 1855), 519 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
 Dart, E. M. Mfg. Co., Providence, R. I.
 Eagle Brass Works, Detroit, Mich.
 Eaton, Cole & Burnham Co., Bridgeport, Conn.
 Edwardsville Brass Co., Edwardsville, Ill.
 Elkhart Brass Mfg. Co., Elkhart, Ind.
 Everhart Brass Works, Scranton, Pa.
 Exeter Brass Works, Exeter, N. H.
 Farnan Brass Works, 25 Center, Cleveland, O.
 Forest City Brass Works, Cleveland, O.
 Gilmour, J. Morrison, 164 W 120th, New York
 Glauber Brass Mfg. Co., Cleveland, O.
 Haines, Jones & Cadbury Co., 1136 Ridge av, Phila., Pa.
 Hamlin & Emery Brass Co., 26 Island, Boston, Mass.
 Haydenville Co., Haydenville, Mass. & 150
 Hays Mfg. Co., Erie, Pa. Nassau, N. Y.
 Healey, Peter, Evansville, Ind.
 Hoffman-Billings Mfg. Co., 178 Beecher, Milwaukee, Wis.
 Homer Brass Works (Inc.), 231 Race, Phila., Pa.
 Jarecki Mfg. Co., Erie, Pa.
 Kinsey & Mahler Co., Peoria, Ill.
LUNKENHEIMER CO., General Offices, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)
 McCambridge & Co., 523 Cherry, Phila., Pa.
 McDonald, A. Y. & Morrison Mfg. Co., Dubuque, Iowa

McNab & Harlin Mfg. Co., 56 John, New York
 Mayor, Lane & Co., 128 White, N. Y.
 Meyer-Sniffen Co., 5 E 19th, N. Y.
 Michigan Brass & Iron Co., Detroit, Mich.
 Mueller, H. Mfg. Co., Decatur, Ill.
 Mullaney's Jas. Sons, 141 E 25th, N. Y.
 National Supply Co., Toledo, O.
 Naugatuck Malleable Iron Co., Union City, Conn.
 Nelson, N. O. Mfg. Co., 8th & St. Charles, St. Louis, Mo.

Nichol, Thos. J. & Co., Cincinnati, O.
 Nolte Brass Co., Springfield, O.
 Ohio Pump & Brass Co., Columbus, O.
 Peck Bros. & Co., 125 Chestnut, New Haven, Conn.

Perkes, Chas., 627 Arch, Phila., Pa.
 Phoenix Brass Foundry Co., Hartford, Conn.
 Pioneer Brass Works, Indianapolis, Ind.
 Pleuger & Henger Mfg. Co., St. Louis, Mo.
 Powhatan Brass & Iron Works, Charlestown, W. Va.

Powell, Wm. Co., 2525 Spring Grove av, Cincinnati, O.
 Queen City Brass & Iron Works, Spring Grove & Garrard avs, Cincinnati, O.

Register's, J. Sons Co., Baltimore, Md.
 Rundle-Spence Mfg. Co., Milwaukee, Wis.
 Smith, A. P. Mfg. Co., Newark, N. J.
 Spence Mfg. Co., S Milwaukee, Wis.
 Standard Sanitary Mfg. Co., Bessemer bldg., Pittsburgh, Pa.

Stebbins, E. Mfg. Co., Springfield, Mass.
 Street & Kent Mfg. Co., 45 Fulton, Chicago, Ill.

Sumner & Goodwin Co., 287 Congress, Boston.
 Thomas Brass & Iron Co., Wankegan, Ill.
 Union Brass & Metal Mfg. Co., St. Paul, Minn.
 Victor Excelsior Brass Works, 128 White, New York

Walworth Mfg. Co., 132 Federal, Boston, Mass.

Weir & Craig Mfg. Co., 2421 Wallace, Chicago, Ill.

Wesetern Tube Co. (also Meter), Kewanee, Ill.

Wolff, L. Mfg. Co., 117 W Lake, Chicago, Ill.

Cocks (Gas Stove)

McRae & Roberts Co., 227 Campbell av, Detroit, Mich.
 Roberts Brass Mfg. Co., 1409 Fort st., W. Detroit, Mich.

Cocks (Gauge)

American Steam Gauge & Valve Mfg. Co., 212 Camden, Boston, Mass.

ASHCROFT MFG. CO., THE, (Locomotive, etc.), 85, 87, 89 Liberty, New York. Works: Bridgeport, Conn. (See adv. index & branch offices, end of book)

Ashton Valve Co., 271 Franklin, Boston, Mass.
 Belfield, H. & Co., 435 Broad, Phila., Pa.
 Belknap Mfg. Co., Bridgeport, Conn.

Bouar, Jas. & Co., Frick bldg., Pittsburgh, Pa.
 Bordo, L. J. (Inc.) ("Bordo"), 12th & Thompson, Phila., Pa.

Buckeye Iron & Brass Works, Dayton, O.
 Cadman, A. W. Mfg. Co. (High Pressure, etc.), 2814 Smallman, Pittsburgh, Pa.

Chaplin-Fulton Mfg. Co. ("Bingham's" Self Grinding), 30 Penn av, Pittsburgh, Pa.
 Crane Co. (Est. 1855), 519 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)

CROSBY STEAM GAGE & VALVE CO., 95 Oliver, Boston, Mass. (See adv. index & branch offices, end of book)

Detroit Brass Wks., Detroit, Mich.

Eastwood Wire Mfg. Co. (Iron Ball, etc.), Belleville, N. J.

Eaton, Cole & Burnham Co. (Compression), Bridgeport, Conn.

Edna Smelting & Refining Co. (Steam, with Union), 525 Reading rd, Cincinnati, O., & Monadnock blk, Chicago, Ill.

Erie Mfg. & Supply Co. ("The Cube"), Erie, Pa.

Everhart Brass Works (Improved Ball), Scranton, Pa.

Farnan Brass Works, 25 Center, Cleveland, O.
 Fewless-Lean Brass & Iron Co., Cincinnati, O.

Forest City Brass Works, 90 Merwin, Cleveland, Ohio

Globe Brass Works ("Mississippi"), Detroit, Mich.

Hamlin & Emery Brass Co., 26 Island, Boston, Mass.
 Haydenville Co., Haydenville, Mass.
 Hills McCanna Co. (High Pressure), 128 E Kinzie, Chicago, Ill.

Huyette, Paul B. Co. ("P. B. H." Quick Opening, Self-Closing Weighted), Betz bldg., Phila., Pa.
 Jarecki Mfg. Co. (Pet), Erie, Pa. & Pittsburgh, Pa.
 Jenkins Bros., 71 John, New York

Jerguson Mfg. Co. ("Wiltbonco"), 221 Columbus av, Boston, Mass.
 Kelly & Jones Co., 135 Water, Greensburg, Pa.
 Kinsey & Mahler Co., Peoria, Ill.
 Libby Valve & Packing Co., 147 Varick, New York

Loneragan, J. E. & Co. (Locomotive, Compression, Weighted, etc.), 211 Race, Phila., Pa.

LUNKENHEIMER CO. ("Excelsior"), General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

McNab & Harlin Mfg. Co., 56 John, N. Y.
 McRae & Roberts Co. ("Victor" & "Acme" & "Little Giant"), 227 Campbell av, Detroit, Mich.

Marsh, Jas. P. & Co., Chicago, Ill.
 Michigan Lubricator Co. ("Michigan" Compression Chain Lever, etc.), Detroit, Mich.

Murray Automatic Boiler Feed Co., 892 Scotten av, Detroit, Mich.

Neff, Geo. W. & Co. ("Aetna"), 42 B'way, New York
 Nolte Brass Co., Springfield, O.

Ohio Brass Co., Mansfield, O.
 Peck Bros. & Co., New Haven, Conn.

PENBERTHY INJECTOR CO. "Penberthy", 346 Holden ave, Detroit, Mich. (See adv. index & branch offices, end of book)

Perkes, Charles, Philadelphia, Pa.

Pittsburgh Gage & Supply Co., 309 Water, Pittsburgh, Pa.

Pittsburgh Valve & Fittings Co., Pittsburgh, Pa.
 Powell, Wm. Co., 2529 Spring Grove av, Cincinnati, Ohio

Pratt & Cady Co., Hartford, Conn.
 Queen City Brass & Iron Works, Cincinnati, O.

Reliance Gauge Column Co. ("Reliance" Lever Chain), Cleveland, O.

Roberts Brass Mfg. Co., 1409 Fort, W. Detroit, Mich.

Rundle-Spence Mfg. Co., Milwaukee, Wis.

SCHAEFFER & BUDENBERG MFG. Co. (Compression), Foxboro, Mass. (See adv. index & branch offices, end of book)

Scott Valve Co., 231 Randolph, Chicago, Ill.

Sherwood Mfg. Co., Buffalo, N. Y.
 Simmons, John Co., 110 Centre, N. Y. City
 Springfield Brass Co., Springfield, O.

Standard Brass Wks., Detroit, Mich.
 Star Brass Mfg. Co. ("Hoyt's"), Boston, Mass.
 Sterling & Skinner Mfg. Co., Detroit, Mich.

Swift Lubricator Co., Elmira, N. Y.
 Thomas Brass & Iron Co., Waukegan, Ill.

Vaile & Kimes ("V. & K." "Aetna"), Dayton, Ohio

Walworth Mfg. Co., 128 Federal, Boston, Mass.

Webb, Elisha & Son, 43 S Water, Phila., Pa.

Western Tube Co., Kewanee, Ill.

Williams Gauge Co., Pittsburgh, Pa.

Wright Mfg. Co., Detroit, Mich.

*Cocks (Hydraulic)

ASHCROFT MFG. CO., 85 Liberty, New York. Works: Bridgeport, Conn. (See adv. index, end of book)

Cocks (Indicator)

American Lubricator Co. (Three-Way for Engine Cylinders), Detroit, Mich.

LUNKENHEIMER CO., General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

Michigan Lubricator Co. ("Michigan" Three-Way), Detroit, Mich.

Loneragan, J. E. & Co. ("Three-Way"), 211 Race, Phila., Pa.

Star Brass Mfg. Co. (Three Way), 103 E Dedham, Boston, Mass.

*Cocks (Lead)

SCHAEFFER & BUDENBERG MFG. Co. (for Acids), Foxboro, Mass. (See adv. index & branch offices, end of book)

*Cocks (Liquid Fuel Regulating)

BEST, W. N. AMERICAN CALORIFIC Co. (Calorex), 11 B'way, New York. (See adv. index, end of book)

*Cocks (Liquor)

LUNKENHEIMER CO., General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

Cocks (Locomotive Cylinder)

Edna Smelting & Refining Co., 525 Reading rd, Cincinnati O., & Monadnock blk, Chicago, Ill.

***Cocks (Oil)**

LUNKENHEIMER CO., General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

Cocks (Plug)

Eastwood Wire Mfg. Co. (Bronze), Belleville, N. J.

GOLDEN-ANDERSON VALVE SPECIALTY CO., ("Anderson" Balanced), Fulton bldg., Pittsburg, Pa. (See adv. index, end of book)

Judson Governor Co. (Asbestos Packed, Iron, Brass or Aluminum), Rochester, N. Y.

LUNKENHEIMER CO. (Packed), General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

Watson, Frye & Co. (Acid Proof), Bath, Me.

***Cocks (Pneumatic Cylinder)**

HANCOCK INSPIRATOR CO., 85 Liberty, New York. (See adv. index and branch offices, end of book)

Cocks (Refrigerator)

Landers, Frary & Clark, New Britain, Conn.

***Cocks (Relief)**

LUNKENHEIMER CO., General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

Cocks (Shampoo)

Haydenville Co., Haydenville, Mass.

Cocks (Ship)

Bishop, Wm. Sons, 205 South, New York
Sands, Alfred B. & Son, 242 Water, New York

***Cocks (Spring Key)**

LUNKENHEIMER CO., General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

Cocks (Steam)

Belknap Mfg. Co., Bridgeport, Conn.
Bordo Co., L. J., Philadelphia, Pa.
Buckeye Iron & Brass Wks., Dayton, O.
Campbell, J. B. Brass Works, Erie, Pa.
Central Brass Works, 322 W Pearl, Cincinnati, O.

Crane Co. (Est. 1855), 519 S. Canal, Chicago, Ill. (See adv. index & branch offices, end of book)

CROSBY STEAM GAGE & VALVE CO., 95 Oliver, Boston, Mass. (See adv. index & branch offices, end of book)

Dart Mfg. Co., E. M., Providence, R. I.
Detroit Brass Works (Also Service), 1304 Brooklyn av., Detroit, Mich.

Eagle Brass Works, Detroit, Mich.
Eastwood Wire Mfg. Co., Belleville, N. J.
Eaton, Cole & Burnham Co., Bridgeport, Conn.
Fairbanks Co., 186 Elm, New York
Fewless-Leen Brass & Iron Co., Cincinnati, O.
Forest City Brass Works, Cleveland, O.
Globe Brass Works, Detroit, Mich.
Hamlin & Emery Brass Co., 26 Island, Boston, Mass.

Haines, Jones, & Cadbury Co., Philadelphia, Pa.
Haydenville Co., Haydenville, Mass.
Howe Mfg. Co., Louisville, Ky.
Jarecki Mfg. Co., Erie, & Pittsburg, Pa.
Lamp & Miller Mfg. Co., Milwaukee, Wis.
Lonergan & Co., J. E., Philadelphia, Pa.

LUNKENHEIMER CO., General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

McNab & Harlin Mfg. Co. (Brass & Iron), 56 John, New York

McDonald & Morrison Mfg. Co., Dubuque, Ia.
McGowan, John H. Co., Cincinnati, O.
National Brass & Metal Co., Minneapolis, Minn.
Nichol & Co., Thos. J., Cincinnati, O.
Nolte Brass Co., Springfield, O.
Ohio Pump & Brass Co., 18th & Oak, Columbus, O.

Peck Bros. & Co., 125 Chestnut, New Haven, Conn.

Perkes, Charles, Philadelphia, Pa.
Pittsburg Brass Mfg. Co., Pittsburg, Pa.
Powell, Wm. Co., 2529 Spring Grove av., Cincinnati, O.
Powhatan Brass & Iron Works, Charlestown, W. Va.

Registers, Sons Co., J., Baltimore, Md.
Standard Brass Works, Detroit, Mich.
Thomas Brass & Iron Co., Waukegan, Ill.
Western Tube Co., Kewanee, Ill.

Cocks (Stop & Waste)

American Brass Works, 426 Plum, Cincinnati, O.

Asbell, S. J. Co., Paterson, N. J.
Bailey-Farrel Mfg. Co., 3d av & Ross, Pittsburg, Pa.

Belfield, H. & Co., 435 N. Broad, Phila., Pa.
Belknap Mfg. Co., Bridgeport, Conn.
Boston Steam Specialty Co., 170 Congress, Boston, Mass.

Buckeye Iron & Brass Works, Dayton, O.
CALDWELL W. E. CO., Louisville, Ky. (See adv. index, end of book)

Campbell, J. B. Brass Works (Compression), Erie, Pa.

Central Brass Mfg. Co., Cleveland, O.
Central Brass Works, 322 W Pearl, Cincinnati, O.

Chambers & Ainslee, 2 Commerce, Newark, N. J.

Cleveland Bronze & Brass Works ("Lyons" Anti-Freezing), Cleveland, O.

Columbus Brass Co., Columbus, O.
Counolly Supply Co., 1071 Atlantic av, Brooklyn, N. Y.

Cooper, Wm. S. Brass Works ("Clipper"), 437 N 12th, Phila., Pa.

Crampton-Farley Brass Co., Kansas City, Mo.
Crane Co. (Est. 1855), 519 S. Canal, Chicago, Ill. (See adv. index & branch offices, end of book)

Crescent Mfg. Co., Connellsville, Pa.

Dart, E. M. Mfg. Co., Providence, R. I.
D'Este, Julian Co., 24 Canal, Boston, Mass.

Detroit Brass Works, Detroit, Mich.
Eastwood Wire Mfg. Co., Belleville, N. J.

Eagle Brass Works, Detroit, Mich.
Edwardsville Brass Co., Edwardsville, Ill.

Exeter Brass Works, Exeter, N. H.
Farnam Brass Works, 25 Center, Cleveland, O.

Forest City Brass Works ("Kennedy"), Cleveland, O.

Fries & Co. ("Buffalo"), Buffalo, N. Y.
Glauber Brass Mfg. Co., Cleveland, O.

Globe Brass Works, Detroit, Mich.
Haines, Jones & Cadbury Co., 1136 Ridge av, Phila., Pa.

Hamilton, Jno., Bridgeport, Conn.
Hamlin & Emery Brass Co. ("Newport" & "Fitchburg"), 26 Island, Boston, Mass.

Haydenville Co., Haydenville, Mass.
Hays Mfg. Co., Erie, Pa., & Pittsburg, Pa.

Henley, Peter, Evansville, Ind.
Hercules Iron & Supply Co., Commercial & Hanover, Boston, Mass.

Hoffman-Billings Mfg. Co., Milwaukee, Wis.
Homer Brass Works (Inc.), 231 Race, Phila., Pa.

Humphreys Mfg. Co., Mansfield, O.
Jarecki Mfg. Co., Erie, Pa.

Jost's, Edmund Sons, 352 Plane, Newark, N. J.
Kelly, Thos. & Bros. ("Kelly"), Congress & 46th av, Chicago, Ill.

Kinsey & Mahler Co., Peoria, Ill.
Kupferle, Jno. C., 2d & Mound, St. Louis, Mo.

Lamp & Miller Mfg. Co., Milwaukee, Wis.
Landers, Frary & Clark ("Simplex"), New Britain, Conn.

LUNKENHEIMER CO., General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

McCambridge & Co., 523 Cherry, Phila., Pa.

McDonald, A. Y. & Morrison Mfg. Co., Dubuque, Ia.

McNab & Harlin Mfg. Co., 56 John, N. Y.

McRae & Roberts Co., Detroit, Mich.
Mayor, Lane & Co., 128 White, N. Y.

Meyer-Sniffen Co., 5 E 19th, N. Y.
Milwaukee Brass Mfg. Co. (Fuller & Compression), 241 Lapham, Milwaukee, Wis.

Mott, J. L. Iron Works, 118 5th av, New York
Mowry & Phillips Co. ("Zane's"), 220 Congress, Boston, Mass.

Mueller, H. Mfg. Co., Decatur, Ill.
Mullaney's Jas. Sons, 141 E 25th, N. Y.

National Brass & Metal Co., Minneapolis, Minn.
NATIONAL SUPPLY CO., 7 W Lombard, Baltimore, Md. (See adv. index, end of book)

Naugatuck Brass Co., Union City, Conn.
Nichol, Thos. J. & Co., Pearl & Ludlow, Cincinnati, O.

Nolte Brass Co., Springfield, O.
Nunn Brass Works, Rochester, N. Y.

Ohlo Brass & Iron Mfg. Co., Cleveland, O.
Ohio Pump & Brass Co., Columbus, O.
Park & McKay Co., Detroit, Mich.
Peck Bros. & Co., 125 Chestnut, New Haven, Conn.

Perkes, Chas., 627 Arch, Phila., Pa.

Pioneer Brass Works, Indianapolis, Ind.
Pleuger & Heuger Mfg. Co., 10th & Wright, St. Louis, Mo.

Powell, Wm. Co., 2525 Spring Grove av, Cincinnati, O.

Powhatan Brass & Iron Works, Charlestown, W. Va.

Pratt & Cady Co., Hartford, Conn.

Queen City Brass & Iron Works, Spring Grove & Garrard avs, Cincinnati, O.

Register's, J. Sons Co., Baltimore, Md.
Richter & Co., 210 E 9th, Cincinnati, O.

Reynolds, M. Plumbers' Supply Co., 25 Centre, N. Y.

Rundle-Spence Mfg. Co., Milwaukee, Wis.
Ryan, J. J. & Co., 105 S Jefferson, Chicago, Ill.

Safety Meter Lock Co., Columbus, O.
Sanitary Co., Cleveland, O.

Savill, Thos. & Sons, 11th & Wood, Phila., Pa.
Scully, W. J. & Co., Detroit, Mich.

Sleben, Henry, 305 W 12th, Kansas City, Mo.
Speakman Supply & Pipe Co., Wilmington, Del.

Spence Mfg. Co., S Milwaukee, Wis.
Standard Sanitary Mfg. Co., Bessemer bldg, Pittsburgh, Pa.

Stebbins, E. Mfg. Co., Springfield, Mass.
Street & Kent Mfg. Co., 45 Fulton, Chicago, Ill.

Syracuse Faucet & Valve Co. (No Packing), Syracuse, N. Y.

Thomas Brass & Iron Co., Waukegan, Ill.
Trenton Brass & Machine Co., Trenton, N. J.

Union Brass & Metal Mfg. Co., St. Paul, Minn.
United Brass Mfg. Co., Cleveland, O.

Walworth Mfg. Co., 132 Federal, Boston, Mass.

Webb, F. W. Mfg. Co., 50 Elm, Boston, Mass.
Weir & Craig Mfg. Co., 2421 Wallace, Chicago, Ill.

Western Brass Mfg. Works, 21st & Rockwell, Chicago, Ill.

Western Tube Co., Kewanee, Ill.
Wolff, L. Mfg. Co., 117 W Lake, Chicago, Ill.

Wolverine Brass Works, Grand Rapids, Mich.
Zero Valve & Brass Mfg. Co., 296 Seneca, Buffalo, N. Y.

***Cocks (Three-Way)**

SCHAEFFER & BUDENBERG MFG. Co., Foxboro, Mass. (See adv. index & branch offices, end of book)

***Cocks (Throttle)**

LUNKENHEIMER CO., General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

Cocks & Bibbs (Compression)

Ahrens & Ott Mfg Co., Louisville, Ky.
American Brass Works, 426 Plum, Cincinnati, O.

Bailey-Farrel Mfg. Co., 3d av & Ross, Pittsburg, Pa.

Barrett, Jas. Mfg. Co., 48 Pearl, Boston, Mass.
Bashlin Co., Warren, Pa.

Belfield, H. & Co., 435 N Broad, Phila., Pa.
Brookside Brass Foundry & Mfg. Co., Cleveland, O.

Campbell, J. B. Brass Works, Erie, Pa.
Central Brass Works, 322 W. Pearl, Cincinnati, O.

Central Brass Mfg. Co., Cleveland, O.
Chambers & Ainslee, 2 Commerce, Newark, N. J.

Clark Novelty Co., Rochester, N. Y.
Cleveland Bronze & Brass Works, Cleveland, O.

Clow, Jas. B. & Sons, 344 Franklin, Chicago.
Columbus Brass Co., Columbus, O.

Connolly Supply Co., 1071 Atlantic av, Brooklyn, N. Y.

Cooper, W. S. ("Clipper"), Brass Works, Phila., Pa.

Cox Brass Mfg. Co. (Ltd.), Albany, N. Y.
Crampton-Farley Brass Co., Kansas City, Mo.

Crane Co. (Est. 1855), 519 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)

Crescent Brass Mfg. Co., Connellsville, Pa.
Dalton-Ingersoll Co., 169 High, Boston, Mass.

D'Este, Julian Co., 24 Canal, Boston, Mass.
Detroit Lubricator Co., Detroit, Mich.

Du Bois, Fred'k N., 247 9th av, New York
Eagle Brass Works, Detroit, Mich.

Eaton, Cole & Burnham Co., 253 Broadway, N. Y.
Edwardsville Brass Co., Edwardsville, Ill.

Empire Brass Mfg. Co., Cleveland, O.
Exeter Brass Works, Exeter, N. H.
Farnau Brass Works, 25 Center, Cleveland, O.
Glauber Brass Mfg. Co., Cleveland, O.
Haines, Jones & Cadbury Co., 1137 Ridge av, Phila., Pa.

Hamilton, Jno., Bridgeport, Conn.
Haydenville Co., Haydenville, Mass.
Hays Mfg. Co., Erie, Pa.
Healey, Peter, Evansville, Ind.
Hoffman, B. Mfg. Co., 257 6th, Milwaukee, Wis.
Homer Brass Works (Inc.), 231 Race, Phila., Pa.
Huber, Henry Co., 244 5th av, New York
Humphries Mfg. Co., Mansfield, O.
Kelly & Jones Co., 137 Water, Pittsburg, Pa.
Lamp & Miller Mfg. Co., Milwaukee, Wis.
Landers, Frary & Clark, New Britain, Conn.
McCambridge & Co., 523 Cherry, Phila., Pa.
McDonald, A. Y. & Morrison Mfg. Co., Du-
buque, Ia.

McNab & Harlin Mfg. Co., 56 John, N. Y.
McRae & Roberts Co., Detroit, Mich.
McShane, Henry Mfg. Co., Baltimore, Md.
Mayor, Lane & Co., 128 White, N. Y.
Meyer-Sniffen Co., 5 E 19th, N. Y.
Miller Specialty Co. (With Removable Seats),
N. Tonawanda, N. Y.

Milwaukee Brass Mfg. Co., Milwaukee, Wis.
Mott, J. L. Iron Works, 88 Beekman, N. Y.
Mowry & Phillips ("Zane's"), 220 Congress,
Boston, Mass.

Mueller, H. Mfg. Co., Decatur, Ill.
Mullaney's Jas. Sons, 141 E 25th, New York
National Brass & Metal Co., Minneapolis, Minn.
NATIONAL SUPPLY CO., 7 W Lomb-
bard, Baltimore, Md. (See adv. index, end
of book)
Naugatuck Malleable Iron Co., Union City, Conn.
Nelson, N. O. Mfg. Co., 8th & St. Charles, St.
Louis, Mo.

Nichol, Thos. J. & Co., Pearl & Ludlow, Cin-
cinnati, O.
Peck Bros. & Co., 125 Chestnut, New Haven,
Conn.

Perkes, Chas., 627 Arch, Phila., Pa.
Pleuger & Henger Mfg. Co., St. Louis, Mo.
Powhatan Brass & Iron Works, Charlestown,
W. Va.

Register's, J. Sons Co., Baltimore, Md.
Roberts Brass Mfg. Co., 140 Fort, W., Detroit,
Mich.

Rome Brass & Copper Co., Rome, N. Y.
Roylance, J. Brass Works, 114 Main, San Fran-
cisco, Cal.

Rundle-Spence Mfg. Co., Milwaukee, Wis.
Ryan, J. J. & Co., 105 S Jefferson, Chicago, Ill.
Sanitary Co., 7 Water, Cleveland, O.
Savill, Thos. & Sons, 11th & Wood, Phila., Pa.
Scully, W. J. & Co., Detroit, Mich.
Speakman Supply & Pipe Co., Wilmington, Del.
Spence Mfg. Co., S Milwaukee, Wis.
Stebbins, E. Mfg. Co., Springfield, Mass.
Street & Kent Mfg. Co., 45 Fulton, Chi-
cago, Ill.

Thomas Brass & Iron Co., Waukegan, Ill.
Trenton Brass & Machine Co., Trenton, N. J.
Union Brass & Metal Mfg. Co., St. Paul, Minn.
United Brass Mfg. Co., Cleveland, O.
Walworth Mfg. Co., 132 Federal, Boston,
Mass.

Weir & Craig Mfg. Co., 2421 Wallace, Chi-
cago, Ill.

Weiskittel, A. & Son, Aliceanna & Washing-
ton, Baltimore, Md.

Western Brass Mfg. Works, 21st & Rockwell,
Chicago, Ill.

Wolff, L. Mfg. Co., 117 W Lake, Chicago, Ill.

Woodworth, A. M. & Son, 541 Wood, Pitts-
burg, Pa.

Cocks & Bibbs (Fuller Work)

American Brass Works, 426 Plum, Cincinnati, O.
Bailey-Farrel Mfg. Co., 3d av & Ross, Pitts-
burg, Pa.

Central Brass Mfg. Co., Cleveland, O.
Central Brass Works, 322 Pearl, Cincinnati, O.
Chambers & Ainslee, 2 Commerce, Newark,
N. J.

Chicago Faucet Co., 200 S Clinton, Chicago, Ill.
Cleveland Bronze & Brass Works, Cleveland, O.
Clow, Jas. B. & Sons, 344 Franklin, Chicago,
Ill.

Columbus Brass Co., Columbus, O.
Crampton-Farley Brass Co., Kansas City, Mo.
Crescent Mfg. Co., Connelville, Pa.

Dalton-Ingersoll Co., Boston, Mass.
Dearborn Brass Co., Cedar Rapids, Ia.
Eagle Brass Works ("Hammerless"), Detroit,
Mich.

Edwardsville Brass Co., Edwardsville, Ill.
Empire Brass Mfg. Co., Cleveland, O.
Exeter Brass Works, Exeter, N. H.

Forest City Brass Works, Cleveland, O.
Glauber Brass Mfg. Co., Cleveland, O.
Haines, Jones & Cadbury Co., 1137 Ridge av,
Phila., Pa.

Haydenville Co., Haydenville, Mass.
Hoffman-Billings Mfg. Co., 178 Becher, Milwau-
kee, Wis.

Huber, Henry Co., 244 5th av, N. Y.
Humphries Mfg. Co., Mansfield, O.

Illinois Malleable Iron Co., 30 W Monroe,
Chicago, Ill.

Lamp & Miller Mfg. Co., Milwaukee, Wis.
Landers, Frary & Clark, New Britain, Conn.
McDonald, A. Y. & Morrison Mfg. Co., Du-
buque, Ind.

McShane, Henry Mfg. Co., Baltimore, O.
Meyer-Sniffen Mfg. Co., 5 E 19th, N. Y.

Michigan Brass & Iron Works, Detroit, Mich.
Milwaukee Brass Mfg. Co., Milwaukee, Wis.
Milwaukee Valve Co., Milwaukee, Wis.

Mott, J. L. Iron Works, 88 Beekman, N. Y.
Mueller, H. Mfg. Co., Decatur, Ill.
National Brass & Metal Co., Minneapolis,
Minn.

Naugatuck Malleable Iron Co., Union City, Conn.
Nelson, N. O. Mfg. Co., St. Louis, Mo.
Peck Bros. & Co., New Haven, Conn.

Powhatan Brass & Iron Works, Charlestown,
W. Va.

Rome Brass & Copper Co., Rome, N. Y.
Roylance, J. Brass Works, 114 Main, San Fran-
cisco, Cal.

Rundle-Spence Mfg. Co., Milwaukee, Wis.
Ryan, J. J. & Co., 105 S Jefferson, Chicago, Ill.
Sanitary Co., 7 Water, Cleveland, O.

Scully, W. J. & Co., Detroit, Mich.
Standard Sanitary Mfg. Co., Bessemer bldg,
Pittsburg, Pa.

Stebbins, E. Mfg. Co., Springfield, Mass.
Street & Kent Mfg. Co., 45 Fulton, Chi-
cago, Ill.

Syracuse Faucet & Valve Co., Syracuse, N. Y.
Thomas Brass & Iron Co., Waukegan, Ill.

Union Brass & Metal Mfg. Co., St. Paul, Minn.
United Brass Mfg. Co., Cleveland, O.

Weir & Craig Mfg. Co., 2431 Wallace, Chicago,
Ill.

Welskittel, A. & Son, Baltimore, Md.
Western Brass Mfg. Works, 21st & Rockwell,
Chicago, Ill.

Wolff, L. Mfg. Co., 117 W Lake, Chicago, Ill.

Cocks & Bibbs (Ground Key)

American Brass Works, 425 Plum, Cincinnati,
O.

Asbell, S. J. Co., Paterson, N. J.
Buckeye Iron & Brass Works, Dayton, O.
Campbell, J. B. Brass Works, Erie, Pa.

Central Brass Mfg. Co., Cleveland, O.
Central Brass Works, 322 W Pearl, Cincinnati,
O.

Chambers & Ainslee, 2 Commerce, Newark,
N. J.

Cleveland Bronze & Brass Works, 1138 Hamil-
ton, Cleveland, O.

Columbus Brass Co., Columbus, O.
Crescent Mfg. Co., Connelville, Pa.

DART, E. M. MFG. CO. (Cocks Only,
Gas, Water & Steam Self-Lubricating), Provi-
dence, R. I. (See adv. index, end of book)

Detroit Brass Works (Cocks Only), 1304 Brooklyn
av, Detroit, Mich.

Eaton, Cole & Burnham Co., 253 B'way, New
York
Exeter Brass Works, Exeter, N. H.

Farnau Brass Works, 25 Center, Cleveland, O.
Federal Co., 227 Washington, Chicago, Ill.

Fisher, E. W. Co., 521 Superior, Cleveland, O.
Forest City Brass Works, 90 Merwin, Cleve-
land, O.

Globe Brass Co., 13 Macomb, Detroit, Mich.
Glauber Brass Mfg. Co., Cleveland, O.

Haines, Jones & Cadbury Co., 1136 Ridge av,
Phila., Pa.

Hart & Cooley Co., New Britain, Conn.
Haydenville Co., Haydenville, Mass.

Hays Mfg. Co., Erie, Pa.
Healey, P., Evansville, Ind.

Hernance Valve Co., 316 E Water, Syracuse,
N. Y.

Hoffman, B. Mfg. Co., 257 6th, Milwaukee, Wis.
Hoffmann-Billings Mfg. Co., 178 Becher, Mil-
waukee, Wis.

Homer Brass Works (Inc.), 231 Race, Phila.,
Pa.
Humphries Mfg. Co., Mansfield, O.

Jost's, Edmund Sons, 352 Plane, Newark, N. J.
Kelly & Jones Co., 135 Water, Pittsburg, Pa.
Keystone Brass Co., Erie, Pa.

Kinsey & Mahler Co., Peoria, Ill.
Lamp & Miller Mfg. Co., Milwaukee, Wis.

Mott, J. L. Iron Works, 118 5th av, N. Y.
Mueller, H. Mfg. Co., Decatur, Ill.
Mullaney's, Jas. Sons, 141 E 25th, New York
National Brass & Metal Co., 258 3d av, Minne-
apolis, Minn.

Naugatuck Malleable Iron Co., Union City, Conn.
New Britain Brass Co., New Britain, Conn.

Nichol, Thos. J. & Co., Pearl & Ludlow, Cin-
cinnati, O.

Ohio Brass & Iron Mfg. Co., Franklin, Cleveland,
Ohio Pump & Brass Works, Columbus, O.

Peck Bros. & Co., New Haven, Conn.
Pioneer Brass Works, Indianapolis, Ind.

Powell, Wm. Co., 2525 Spring Grove av, Cin-
cinnati, O.

Powhatan Brass & Iron Works, Charlestown,
W. Va.

Queen City Brass & Iron Works, Spring Grove
& Garrard avs, Cincinnati, O.

Rundle-Spence Mfg. Co., Milwaukee, Wis.
Russ, A. E. Mfg. Co., 87 Wade Park av, Cleve-
land, O.

Saunty Co., 7 Water, Cleveland, O.
Savill, Thos. & Sons, 11th & Wood, Phila., Pa.

Scully, W. J. & Co., Detroit, Mich.
Speakman Supply & Pipe Co., Wilmington, Del.

Springfield Brass Co., Springfield, O.
Standard Sanitary Mfg. Co., Bessemer bldg,
Pittsburg, Pa.

Stebbins, E. Mfg. Co., Springfield, Mass.
Street & Kent Mfg. Co., 45 Fulton, Chi-
cago, Ill.

Thomas Brass & Iron Co., Waukegan, Ill.
Trenton Brass & Machine Co., Trenton, N. Y.

United Brass Mfg. Co., 958 Hamilton, Cleve-
land, O.

United Metal Mfg. Co., 525 W 26th, New York
Walworth Mfg. Co., 132 Federal, Boston, Mass.

Webb, F. W. Mfg. Co., 50 Elm, Boston, Mass.
Western Brass Mfg. Works, 21st & Rockwell,
Chicago, Ill.

Weir & Craig Mfg. Co., Wallace & Archer av,
Chicago, Ill.

Wolff, L. Mfg. Co., 117 W Lake, Chicago, Ill.

Cocks & Bibbs (Self-Closing)

American Brass Works, 426 Plum, Cincinnati,
O.

American Automatic Faucet Co., 114 State,
Boston, Mass.

Barclay, Peter & Co., 54 Devonshire, Boston,
Mass.

Bashlin Co., Warren, Pa.
Brookside Brass Foundry & Mfg. Co., 21 Sei-
zer av, Cleveland, O.

Chambers & Ainslee, 2 Commerce, Newark,
N. J.

Chicago Faucet Co., 200 S Clinton, Chicago, Ill.
Clark Novelty Co., Rochester, N. Y.

Clow, Jas. B. & Sons, 344 Franklin, Chicago,
Ill.

Cooper, W. S. Brass Works, Philadelphia, Pa.
Crampton-Farley Brass Co. ("Farley"), Kan-
sas City, Mo.

Dalton-Ingersoll Co., Boston, Mass.
Dayton Mfg. Co., Dayton, O.

Dearborn Brass Co., Cedar Rapids, Ia.
Du Bois, Fred'k N., 247 9th av, New York

Eagle Brass Works, Detroit, Mich.
Empire Brass Mfg. Co., Cleveland, O.

Exeter Brass Works, Exeter, N. H.
Federal Co. ("Watrous," "Perry," "Cornell"),
227 Washington, Chicago, Ill.

Field Automatic Valve & Faucet Mfg. Co.,
Providence, R. I.

Gilmour, J. Morrison, 164 W 120th, New York
Glenn Valve Manufactory, 115 Fremont, Chi-
cago, Ill.

Glauber Brass Mfg. Co., Cleveland, O.
Haines, Jones & Cadbury Co., 1137 Ridge av,
Phila., Pa.

Haydenville Co., Haydenville, Mass.
Hoffman, B. Mfg. Co., 257 6th, Milwaukee, Wis.

Huber, Henry Co., 244 5th av, New York
Kelly, Thos. & Bros., Congress & 46th av, Chi-
cago, Ill.

Lamp & Miller Mfg. Co., Milwaukee, Wis.
Loeffelholz Co., Milwaukee, Wis.

McCambridge & Co., 523 Cherry, Phila., Pa.
McShane, Henry Mfg. Co., Baltimore, Md.

Merrie, Hugh, 124 E 8th, Cincinnati, O.
Meyer-Sniffen Co., 5 E 19th, N. Y.

Michigan Lubricator Co., Detroit, Mich.
Milwaukee Brass Mfg. Co. ("Engel," "Peer-
less," "Telegraph,") Milwaukee, Wis.

Milwaukee Valve Co., Milwaukee, Wis.
Mott, J. L. Iron Works, 88 Beekman, N. Y.
Mowry & Phillips ("Zane's"), 220 Congress,
Boston, Mass.

Mueller, H. Mfg. Co., Decatur, Ill.

Perkes, Chas., 627 Arch, Phila., Pa.
 Powhatan Brass & Iron Works, Charlestown, W. Va.
 Rundle-Spence Mfg. Co. ("Telegraph"), Milwaukee, Wis.
 Ryan, J. J. & Co., 105 S Jefferson, Chicago, Ill.
 Sanitary Co. ("Doherty" Paragon), 7 Water, Cleveland, O.
 Savill, Thos. & Sons, 11th & Wood, Phila., Pa.
 Scoville, E. U., Manlius, N. Y.
 Smith & Anthony Co. ("McHugh," "Cornell"), 48 Union, Boston, Mass.
 Standard Sanitary Mfg. Co., Bessemer bldg, Pittsburg, Pa.
 Stebbins, L. Mfg. Co. ("Broughton"), Springfield, Mass.
 Street & Kent Mfg. Co., 45 Fulton, Chicago, Ill.
 Superior Mfg. Co., Cleveland, O.
 Syracuse Faucet & Valve Co. (No Packing), Syracuse, N. Y.
 Thomas Brass & Iron Co., Waukegan, Ill.
 United Metal Mfg. Co., 525 W 26th, New York
 Walsh, Richard & Sons, Detroit, Mich.
 Western Brass Mfg. Works, 21st & Rockwell, Chicago, Ill.
 Wolff, L. Mfg. Co., W Lake, Chicago, Ill.
 Young, F. R. & Sons, Titusville, Pa.

Coffee Roasters (Gas)

(See Peanut and Coffee Roasters; also Coffee, Peanut and Cocoa Bean Roasting Machines.)

Coffee Urns

(See Cooking Apparatus.)

*Cofferdams (Water-Tight)

KOVEN, L. O. & BRO., 50 Cliff, New York. (See adv. index, end of book)

Cogs (Wood)

Menasha Wood Split Pulley Co., Menasha, Wis.
 Nordyke & Marmon Co. (for Mortise Gears), Indianapolis, Ind.
 Thompson Mfg. Co., Lancaster, N. H.
 Woolbert, Chas. W., Elmer, N. J.

Coilers (Wire)

Baird Machine Co., Oakville, Conn.
 Manville, E. J. Machine Co., Waterbury, Conn.
 Morgan Construction Co., Worcester, Mass.
 Turner, Vaughan & Taylor Co., Cuyahoga Falls, Ohio

Coiling Machines

(See Spring Coiling Machines)

Coils (Armature & Field)

Advance Electric Device Co., South Bend, Ind.
 Chattanooga Armature Works, Chattanooga, Tenn.
 Cleveland Armature Works, Coe & Hamilton, Cleveland, O.
 Columbia Machine Works & Malleable Iron Co., Atlantic av & Chestnut, Brooklyn, N. Y.
 Comstock, J. F. & Co., West Pittsburg, Pa.
 Electric Cable Co., Bridgeport, Conn.
 Ford Electric & Mfg. Co., Compton av & Papin, St. Louis, Mo.
GENERAL ELECTRIC CO., Schenectady, N. Y., & 44 Broad, New York. (See adv. index & branch offices, end of book)
 Harrison, F. P. Electric & Mfg. Co. (Delta-beston "Cowboy" Brand), 169 South, New York
 Knoblock-Heideman Mfg. Co., South Bend, Ind.
 McLeer Engineering Co. (Inc.), 338 Pearl, New York
 Magnet Wire Co., 17 Battery pl, New York
 Mechanical Appliance Co., Milwaukee, Wis.
 Morris, Elmer P. Co., 51 Dey, New York
 Tibbals, E. O. & Co., 1201 Atlantic av, Brooklyn, N. Y.
 Van Dorn-Elliott Electric Co., Cleveland, O.

Coils (Induction)

Advance Electric Device Co., South Bend, Ind.
 American Electric Telephone Co., 64th & State, Chicago, Ill.
 American Electrical Works, Phillipsdale, R. I.
 Ansonia Electrical Co., Ansonia, Conn.
 Biddle, James G., 1114 Chestnut, Phila., Pa.
 Bogart, A. L. Co., 123 Liberty, New York
 Bunnell, J. H. & Co., 20 Park pl, New York
 Oarstarphen Elec. Co., Denver, Col.

Harvard Electric Co., 60 W Van Buren, Chicago, Ill.
 International Telephone Mfg. Co., 111 W Harrison, Chicago, Ill.
 International Brass & Electric Co. ("Ruhm Korff"), 76 Beekman, New York
 Knoblock-Heideman Mfg. Co., South Bend, Ind.
 McIntosh Battery & Optical Co., 39 W Randolph, Chicago, Ill.
 Manhattan Electrical Supply Co., 17 Park pl, New York
 Menomonee Electric Mfg. Co., Menomonee, Mich.
 Partrick, Carter & Wilkins, 22d & Wood, Phila., Pa.
QUEEN & CO. (Inc.), n. w. c 8th & Arch, Phila., Pa. (See adv. index, end of book)
 Ritchie, E. S. & Sons, opp Brookline Hill Station, Boston, Mass.
 Splittdorf, C. F., 17 Vandewater, New York
 Swett & Lewis Co. ("Kinraida"), 18 Boylston, Boston, Mass.
 Vought-Berger Co., La Crosse, Wis.
 Wilhelm Telephone Mfg. Co., 45 N Division, Buffalo, N. Y.
 Williams, E. Q., Syracuse, N. Y.

Coils (Phosphor Bronze)

Riverside Metal Co., Riverside, N. J.

Coils (Pipe)

(See Pipe Bends & Coils.)

Coils (Resistance)

Advance Electric Device Co., South Bend, Ind.
 American Electrical Works, Phillipsdale, R. I.
 Ansonia Electrical Co., Ansonia, Conn.
 Biddle, Jas. G., 1114 Chestnut, Phila., Pa.
 Bunnell, J. H. & Co., 20 Park pl, New York
 International Brass & Electric Co., 76 Beekman, N. Y.
 Knoblock-Heideman Mfg. Co., South Bend, Ind.
 Partrick, Carter & Williams, 1231 Callowhill, Phila., Pa.
 Philadelphia Electric Construction Co., 1215 Filbert, Phila., Pa.
QUEEN & CO. (Inc.), n. w. c 8th & Arch, Philadelphia, Pa. (See adv. index, end of book)
 Ritchie, E. S. & Sons, opp Brookline Hill Station, Boston, Mass.
 Wagner, R. V. Co., 140 Wabash av, Chicago, Ill.
 Western Electric Co., 259 S Clinton, Chicago, & 57 Bethune, N. Y.
 Whitney Electrical Inst. Co., Penacook, N. H.

Coils (Spark)

Acme Wire Co., New Haven, Conn.
 Advance Electric Device Co., South Bend, Ind.
 American Coil Co. (Jump), Foxboro, Mass.
 American Electrical Works, Phillipsdale, R. I.
 American Machine Mfg. Co. ("Perfection"), South Braintree, Mass.
 Ansonia Electrical Co., Ansonia, Conn.
 Autocoil Co. ("Jumplame"), 132 7th, Jersey City, N. J.
 Boston Electric Co., 29 Harrison av, Boston, Mass.
 Briggs & Wade, Lynn, Mass.
 Broc-Barbier Auto Ignition Co., 143 W 54th, New York
 Bunnell, J. H. & Co., 20 Park pl, New York
 Byrne-Kingston Co. ("Kingston"), Kokomo, Ind.
 Capitol Electric Engineering Co. (Gas Engine Igniting), Lansing, Mich.
 Champion, Albert Co., 541 Tremont, Boston, Mass.
 Columbus Screw & Machine Co., Columbus, O.
CONNECTICUT TELEPHONE & Electric Co. (Inc.) ("Connecticut"), Meriden, Conn.
 Curtis, F. G., 745 N Water, Milwaukee, Wis.
 Dayton Electrical Mfg. Co. ("Apple"), Dayton, O.
 Deisher Coil Co., Frankton, Ind.
 Dow Portable Electric Co., Braintree, Mass.
 Duplex Coil Co., Fond-du-Lac, Wis.
 Edison Mfg. Co., Orange, N. J.
 Eldridge Electrical Mfg. Co., Eldridge, N. Y.
 Electric Goods Mfg. Co., 115 Purchase, Boston, Mass.
 Electrical Appliance Co., Waterbury, Conn.
 Electrical Appliance Co., 526 Walnut, Cincinnati, Ohio
 Engeln, Henry P. & Co., 414 Prospect, S. E., Cleveland, Ohio
 Etna Electric Works, 145 E 23d, New York
 Fischer Special Mfg. Co., Cincinnati, O.
 Foote, Pierson & Co., 82 Fulton, New York
 Goodson Electric Ignition Co., Providence, R. I.
 Heinze Electric Co. (for Automobiles, X-Rays & Wireless Telegraphy), Lowell, Mass.

Hercules Electric Co., Indianapolis, Ind.
 Herz & Co., 203 Lafayette, New York
 Holtzer-Cabot Electric Co., Brookline, Mass.
 Huff, E. S. Co., Detroit, Mich.
 Induction Coil Co., Milwaukee, Wis.
 International Brass & Electric Co. (for X-Ray, Wireless Telegraphy, etc.), 76 Beekman, New York
 International Telephone Mfg. Co., 111 W Harrison, Chicago, Ill.
 Knoblock-Heideman Mfg. Co., South Bend, Ind.
 Kokomo Electric Co., Kokomo, Ind.
 Morris Electric Co., Wilmington, Del.
 Mosler, A. R. & Co., Inc., 163 W. 29th, New York
 Motor Car Supply Co., Chicago, Ill.
 National Coil Co. ("Capitol"), Lansing, Mich.
 Never-Miss Spark Plug Co., Lansing, Mich.
 New York Coil Co. ("Fire Ball," "Economic" & "Challenge"), 52 Park pl, New York
 Noxon, C. Per Lee, Syracuse, N. Y.
 Nungesser Electric Battery Co., 20 King, Cleveland, O.
 Ohio Electric Works, 76 Ellen, Cleveland, O.
 Partrick, Carter & Wilkins, 22d & Wood, Phila., Pa.
 Pittsfield Spark Coil Co. ("Pittsfield"), Pittsfield, Mass.
 Post & Lester Co. ("E. I. C."), Hartford, Conn.
 Proctor-Raymond Mfg. Co., Detroit, Mich.
 Providence Spark Coil Co., Providence, R. I.
 Remy Electric Co., Anderson, Ind.
 Roche, Wm. Dry Battery Co. ("New Standard"), 42 W B'way, New York
 Rubay, Leon, 140 W 38th, New York
 Russell, W. A. & Co., Waterbury, Conn.
 Schug Electric Mfg. Co., Detroit, Mich.
 Seidler-Miner Electric Co., 207 Jefferson av, Detroit, Mich.
 Silsby-Atwater Corporation, 79 Milk, Boston, Mass.
 Splittdorf, C. F., 17 Vandewater, N. Y.
 Tritt Electrical Mfg. Co., South Bend, Ind.
 Vesta Accumulator Co., Chicago, Ill.
 Wotton Electric & Mfg. Co. (Gas Engine & Western Electric Co., 259 S Clinton, Chicago, Ill., & 57 Bethune, New York
 Williams, E. L., Syracuse, N. Y.

Coke Mfrs.

Auabama Consolidated Coal & Iron Co., Birmingham, Ala.
 Algoma Coal & Coke Co., Algoma, W. Va.
 Altoona Coal & Coke Co., Altoona, Pa.
 Arlington Coal & Coke Co., Lynchburg, Va.
 Atlantic Coal & Coke Co., Tunnelton, W. Va.
 Beaver Coal & Coke Co., Wampum, Pa.
 Bessemer Coke Co., Lewis blk, Pittsburg, Pa.
 Blair, Reed F. & Co. (Dealers), Frick bldg, Pittsburg, Pa.
 Blairsville Coke Co., Blairsville, Pa.
 Bosworth Coal & Coke Co., Middlesboro, Ky.
 Bottom Creek Coal & Coke Co., Vian, W. Va.
 Brier Hill Coke Co., Uniontown, Pa.
 Brown & Cochran, Conestoga bldg, Pittsburg, Pa.
 Bryson Mountain Coal & Coke Co., Middlesboro, Ky.
 Campbell Coal & Coke Co., Orma, Tenn.
 Carmody Bros., Lynn, Mass.
 Carnegie Steel Co., Carnegie bldg, Pittsburg, Pa.
 Caswell Creek Coal & Coke Co., Bramwell, W. Va.
 Central Coal & Coke Co., 11 William, New York
 Cherry Valley Iron Co., 307 4th av, Pittsburg, Pa.
 Chesapeake & Ohio Coal & Coke Co., 11 B'way, New York
 Cincinnati Gas Coke, Coal & Mining Co., Trac-tion bldg, Cincinnati, O.
 Coalfield Coal & Coke Co., Coalfield, Tenn.
 Colorado Fuel & Iron Co., Denver, Col.
 Columbus & Hocking Coal & Iron Co., Columbus, O.
 Connellsville Central Coke Co., Empire bldg., Pittsburg, Pa.
 Consolidated Coal & Mining Co., Mitchell bldg, Cincinnati, O.
 Continental Coke Co., Uniontown, Pa.
 Cox, Justice, Jr., & Co. (Dealers in Furnace & Foundry), Land Title bldg, Phila., Pa.
 Crozer Coal & Coke Co., Upland, Pa., & Elkhorn, W. Va.
 Crystal Coal & Coke Co., Godfrey, W. Va.
 Cumberland Coal & Coke Co., Crossville, Tenn.
 Darby Coal & Coke Co., Mer. Lib. bldg
 Davis Coal & Coke Co. (Foundry, Furnace & Crushed), Elkins, W. Va.
 Donohue Coke Co., Greensburg, Pa.
 Durham Coal & Coke Co., Chattanooga, Tenn. & Pittsburg, Pa.
 Eastern Coal & Coke Co., Cokedale, Kan.
 Elk Ridge Coal & Coke Co., Kyle, W. Va.
 Fairmont Coal Co. (Foundry, Furnace & Crushed), Fairmont, W. Va., & 1 B'way, New York

Pieser & Bentley (Wholesale), The Wyandotte, Columbus, O.
 Fire Creek Coal & Coke Co., Fire Creek, W. Va.
 Fork Ridge Coal & Coke Co., Middlesboro, Ky.
 Frick, H. C. Coke Co., Carnegie bldg, Pittsburgh, Pa.
 Gilliam Coal & Coke Co., Lynchburg, Va., & Gilliam, W. Va.
 Goff, Horner & Co. (Ltd.) (Wholesale Dealers), Frick bldg., Pittsburgh, Pa.
 Goodwill Coal & Coke Co., Goodwill, W. Va.
 Grafton Coal & Coke Co., Grafton, W. Va.
 Graham Coal & Coke Co. (Ltd.) (Wholesale Coal & Coke), Cham. of Com. bldg, Detroit, Mich.
 Greenwich Coal & Coke Co., Latrobe, Pa.
 Hecla Coal Co. Carnegie bldg., Pittsburgh, Pa.
 Hickman, Williams & Co. (Dealers), The Rookery, Chicago, Ill.
 Hillman, J. H. & Son, Frick bldg, Pittsburgh, Pa.
 Houston C. B. & Co. (Dealers), Girard bldg Phila., Pa.
 Houston Coal & Coke Co., Elkhorn, W. Va.
 Hostetter, —, Connellsville Coke Co., Frick bldg, Pittsburgh, Pa.
 Hustead-Semans Coal & Coke Co., Uniontown, Pa.
 Indian Ridge Coal & Coke Co., Connellsville, Pa.
 Jamison Coal & Coke Co., Greensburg, Pa.
 Kanawha Coal & Coke Co., First National Bank bldg, Cincinnati, O.
 Keeley, Jerome & Co. (Dealers), Phila. Bank bldg, Phila., Pa.
 Keister, A. L. & Co. (also Coal), Scottsdale, Pa.
 Keystone Coal & Coke Co., Greensburg, Pa.
 Lacey-Buck Iron Co., Birmingham, Ala.
 La Follette Coal, Iron & Railway Co., La Follette, Tenn.
 Latrobe-Connellsville Coal & Coke Co., Latrobe, Pa.
 Law, Ernest & Co. (Dealers), 1502 Market, Phila., Pa.
 Lookout Mountain Coal & Coke Co., Atlanta, Ga.
 Louisville Coal & Coke Co., Goodwill, W. Va.
 Loyal Hanna Coal & Coke Co., Loyal Hanna, Lynchburg Coal & Coke Co., Kyle, W. Va. Pa.
 Lynn Coal & Coke Co., Elkhorn, W. Va.
 McKeefrey & Co., Leetonia, O.
 McKeil Coal & Coke Co., Glen Jean, W. Va.
 Maher Coal & Coke Co., Blairsville, Pa.
 Marmet Coal & Coke Co., Traction bldg, Cincinnati, Ohio.
 Masontown Coal & Coke Co., Uniontown, Pa.
 Mingo Coal & Coke Co., Middlesboro, Ky.
 Moffat, Frank D. & Co. (Jobbers & Dealers), 81 Fulton, N. Y.
 Mohr, J. J. (Dealers), Bullitt bldg, Phila., Pa.
 Monessen Coal & Coke Co., Frick bldg, Pittsburgh, Pa.
 Moore, Edgar & Co. (Mfrs. Agents), Farmers' Bank bldg., Pittsburgh, Pa.
 Mt. Pleasant Coke Co., Mt. Pleasant & Greensburg, Pa.
 New England Gas & Coke Co., 294 Washington, Boston, Mass.
 New York & Phila. Coal & Coke Co., Produce Exchange, N. Y.
 Norton Coal Co., Norton, Va.
 Oak Ridge Coal & Coke Co., Hastings, Pa., & Stephen Girard bldg, Philadelphia, Pa.
 Old Colony Coal & Coke Co., Keystone bldg, Pittsburgh, Pa.
 Oliver & Snyder Steel Co., S 10th & Muriel, Pittsburgh, Pa.
 Opekiska Coal & Coke Co., Connellsville, Pa.
 Orient Coke Co., Uniontown, Pa.
 Overholt, A. C. & Co., West Overton, Pa.
 Pa. Coal & Coke Co., 929 5th av, Pittsburgh, Pa.
 Peerless Coal & Coke Co., Vivian, W. Va.
 Pickands, Mather & Co., Western Reserve bldg., Cleveland, O., & Middlesex, Pa.
 Pickards, Brown & Co., Rookery bldg, Chicago, Ill.
 Piedmont Coal Co., Bramwell, W. Va.
 Pilling & Crane (also Jobbers in Coal), Girard bldg, Phila., Pa.
 Pittsburgh-Buffalo Co., Frick bldg, Pittsburgh, Pa.
 Pittsburgh Coal Co., 232 5th av. Pittsburgh Pa.
 Pocahontas Consolidated Co., Bramwell, W. Va.
 Punxsuntawney Coal & Coke Co., Betz bldg, Phila., Pa.
 Raleigh Coal & Coke Co., Raleigh, W. Va.
 Republic Iron & Steel Co., Frick bldg. annex, Pittsburgh, Pa.
 Roanoke Coal & Coke Co., Roanoke Va., & Worth, W. Va.
 Rochester & Pittsburgh Coal & Iron Co., Rochester N. Y. & 1 B'way, N. Y.
 Rocks Coal & Coke Co., Connellsville, Pa.
 Rogers-Brown & Co. (Dealers), Cincinnati, O.
 Rolfe Coal & Coke Co., Worth, W. Va.
 Runyon, Fairbank & Co., Citizens' bldg., Cleveland, O.

Russell Creek Coal & Coke Co., Virginia City Va.
 Sackett, H. R. Coal & Coke Co., Uniontown, Pa.
 Sagamore Coal & Coke Co., Bramwell, W. Va.
 Saxman Supply Co., Latrobe, Pa.
 Sewanee Coal, Coke & Land Co., Clouse Hill & Coalmont, Tenn.
 Shook & Fletcher (Dealers), Birmingham, Ala.
 Sloss-Sheffield Steel & Iron Co., Birmingham, Ala.
 Southern Steel Co., Birmingham, Ala. Ala.
 Stauffer, J. R. & Co., Scottsdale, Pa.
 Stewart Iron Co. (Ltd.), Cleveland, O., & Sharon, Pa.
 Stinemman Coal & Coke Co., Phila. Bank bldg Phila., Pa.
 Stonecliff Coal & Coke Co., Stonecliff, W. Va.
 Steubenville Coal & Mining Co., Steubenville, O.
 Struthers Coal & Coke Co., Citizens' bldg, Cleveland, O.
 Taylor, Isaac & Co., Uniontown, Pa.
 Tennessee Coal, Iron & R. R. Co., Birmingham, Ala.
 Thacker Co., The, Union Trust bldg, Cincinnati, O.
 Thacker Coal & Coke Co., Thacker, W. Va.
 Tidewater Coal & Coke Co., Vivian, W. Va.
 Tri-State Coal & Coke Co., Lewis blk, Pittsburgh, Pa.
 Tygart's Valley Coal Co., Grafton, W. Va.
 Tyler, W. R. & Co. (Dealers), Land Title bldg, Phila., Pa.
 Uniontown Coke Co., Uniontown, Pa.
 United Coke & Gas Co., 17 Battery pl, New York, N. Y.
 U. S. Coal & Coke Co., Carnegie bldg, Pittsburgh, Pa.
 Upland Coal & Coke Co., Upland, Pa., & Elkhorn, W. Va.
 Verner Coal & Coke Co., Carnegie, Pa.
 Virginia Iron, Coal & Coke Co. (Foundry & Furnace), Bristol, Tenn., & Radford, Va.
 Virginia & Pittsburgh Coal & Coke Co., Fairmont, W. Va.
 Walker & Co., 2620 5th av, Birmingham, Ala.
 Washington Coal & Coke Co., Dawson, Pa., & Pittsburgh, Pa.
 Webster Coal & Coke Co., Philadelphia, Pa.
 Welch Coal & Coke Co., Bramwell, W. Va.

Coke Oven Construction

Retort Coke Oven Co., Clark av, at Cuyahoga River, Cleveland, Ohio
 Warwick Co., Fisher bldg, Chicago, Ill.

Coke Plant Construction

American Coke & Gas Construction Co. (With or Without the Recovery of By-Products), Camden, N. J.

Cold Storage Plant Construction

(See Ice & Refrigerating Machines)

Cold Storage Rooms

(See Refrigerators & Cooling Rooms)

Collars (Dog)

Brauer Bros. Mfg. Co., St. Louis, Mo.
 Cassidy-Fairbank Mfg. Co. ("Erb"), 6106 La Salle, Chicago, Ill.
 Medford Fancy Goods Co. (Sterling Silver), 75 Duane, New York
 Oneida Community, 413 B'way, New York
 Scheffer & Rossum, St. Paul, Minn.
 Union Hardware Co., Torrington, Conn.

Collars (Shafting)

(See Shafting Collars)

Collars (Split)

Chain Belt Co., Milwaukee, Wis.
 DODGE MFG. CO. (For Shafting), Mishawaka, Ind. (See adv. index & branch offices, end of book)
 Patterson, Gottfried & Hunter (Ltd.), (The "Johnson" Safety), 146 Center, New York
 Yocom, Jas. & Son (For Shafting), 145 N 2d, Phila., Pa.

Collars (Steam Pipe)

Matthews Mfg. Co., Worcester, Mass.
WORCESTER PRESSED STEEL CO.
 Worcester, Mass. (See adv. index, end of book)

Collars (Thrust)

Dyson, Jos. & Sons (Forged), Cleveland, O.

Collets

Becker, Brainard Milling Machine Co., Hyde Park, Mass.
 Brown & Sharpe Mfg. Co. (For Milling & Grinding Machines, etc.), Providence, R. I.
 Modern Tool Co. ("Magic"), Erie, Pa.
OWEN MACHINE TOOL CO., Springfield, O. (See adv. index, end of book)
WELLS BROS. CO. ("Little Giant"), Greenfield, Mass. (See adv. index, end of book)
 Whitney Mfg. Co. ("Presto" & Friction Tapping), Hartford, Conn.
 Wiley & Russell Mfg. Co. ("Lightning" Dies & Collets for Machines), Greenfield, Mass.

Color Cards for Mixed Paints

(See Paint Mfrs' Color Cards)

Color Mfrs. & Importers

(See also Clays, Minerals, etc.)

Acme White Lead & Color Works, Detroit, Mich.
 Adler Color & Chemical Works, 100 William, N. Y., & 170 Tillary, Brooklyn, N. Y.
 Akron Mining, Milling & Mfg. Co. ("Robinson's"), Aurora, Ill.
 Alpha Paint & Mineral Co., 1729 Ridge av., Phila., Pa.
 Alston Mfg. Co., Wade & Currier, Chicago, Ill.
AMERICAN STEEL & WIRE CO. (Venetian Red & Oxides of Iron), The Rookery, Chicago, Ill. (See adv. index & branch offices, end of book)
 Anshacher, A. B. & Co., 253 B'way, New York, & 310 N 7th, Brooklyn, N. Y.
 Atlas Co. (Miners & Refiners), Lincoln, N. J., & 82 Pearl, New York
 Augusta Sienna & Ochre Co., (Miners & Exporters), Augusta, Ga.
 Ault & Wiborg Co., 7th & Culvert, Cincinnati, O.
 Billings-Chapin Co., 37 Case av, Cleveland, O.
 Billings, King & Co., 438 Pearl, New York, & 158 Congress, Boston, Mass.
 Binney & Smith Co., 81 Fulton, New York
 Bird, F. J. Co. (Aniline), 119 Arch, Phila, Pa.
 Briedbach, C. J. & Son, 395 Mott av, New York
 Briggs, John & Co., 14 Washington, Boston
 Cambria Paint & Color Co. (Ltd.) (Grinders of Paper & Pulp Colors, Colors in Oil, etc.), Johnstown, Pa.
 Cawley, Clark & Co., Newark, N. J.
 Cleveland Color Co., Mason & C. & P. R. R., Cleveland, O.
 Continental Varnish & Color Co., 1315 W 8th Kansas City, Mo.
 Coulston, J. W. Co., 136 Liberty, New York
 Davidson, Jas. H. (Inc.), 239 Front, New York
 Detroit White Lead Works (Mfrs.), 532 Milwaukee av, E, Detroit, Mich.
 Devoc, F. W. & C. T. Reynolds Co., 101 Fulton, N. Y., & 176 Randolph, Chicago, Ill.
 Doggett, Stanley (Dry), 101 Beckman, New York
 Eagle Paint & Varnish Co., Allegheny, Pa.
 Eagle White Lead Co., 7020 B'way, Cincinnati, O.
 Essex Paint Works, Essex, Conn.
 Fales, W. H. & Co., 62 Maiden Lane, New York, N. Y.
 Forest City Paint & Varnish Co., Cleveland, O.
FRENCH, SAMUEL H. & CO., 4th & Callowhill, Phila., Pa. (See adv. index, end of book)
 Gabriel & Schall (Importers of Tithopone Dry Colors, etc.), 205 Pearl, New York
 Hammill & Gillespie (Importers), 240 Front, New York
 Harrison Bros. & Co., 35th & Gray's Ferry rd, Philadelphia, Pa.
 Helier & Merz Co. (Aniline), 22 Cliff, New York
 Hemingway & Co., 135 Front, New York
 Herrman, Morris & Co., 68 William, N. Y.
 Huber, Jos. M., 275 Water, New York
 Illinois Mineral Milling Co., E. St. Louis, Ill.
 International Acheson Graphite Co. (Graphite Pigments), Niagara Falls, N. Y.
 Johnson, Chas. E. & Co., 509 S 10th, Phila., Pa.

Kalie & Co. (Importers), 534 Canal, New York
 Keppelmann, Adolphus, 205 Fulton, N. Y.
 Kohnstamm, H. & Co., 87 Park pla, New York
 Lavanburg, Fred'k L. (Importer), 100 William,
 New York
 Lewis, John T. & Bros. Co., 231 S Front, Phila-
 delphia, Pa.

Longman & Martinez, 207 Pearl, N. Y.
 Lucas, John & Co., 4th & Race, Philadelphia,
 Pa.
 McLennan Paint Co., Buffalo, N. Y.
 Macneal, Jas. B. & Co., Warner & Wooster,
 Baltimore, Md.

Mamolith Carbon Paint Co., Poplar Bluff, Mo.
 Mepharm, Geo. S. & Co. (Colors & Minerals),
 East St. Louis, Ill.

Mertztown Mfg. Co. (Ochres, Umbers, Slemas,
 Metallic Brown, Reds, Slate, Flour, Min-
 eral, Blacks, etc.), Works: Mertztown, Pa.

Mound City Paint & Color Co., 813 N 6th, St.
 Louis, Mo.

Peninsular Paint & Color Works (Ltd.) (Dry),
 St. Aubin & Clay avs, Detroit, Mich.

Pfeiffer, Isaac, 92 William, New York
 Prince Mfg. Co., 2 Cliff, New York

Prince's Metallic Paint Co., 2 Cliff, New York
 Schoellkopf, Hartford & Hanna Co. (Aniline),
 Buffalo, N. Y.

Sherwin-Williams Co., 100 Canal, Cleveland, O.
 Sinclair & Valentine, 5 Marlon, New York

Stevens, Geo. I., Essex, Conn.
 Stoermer, F. R. (Dry Colors), 92 William, New
 York

Swift, Wm. H. & Co., 75 Broad, Boston, Mass.
 Tiemann, D. F. & Co., 44 Duane, New York

Toch Bros., 320 5th av, New York
 Valentine & Co., 257 B'way, New York

Whittaker, W. H. (Importer & Dealer), 245
 Front, New York

Wilhelm, A. Co. (Dry, Pulp & in Oil), Reading,
 Pa.

Williams, C. K. & Co. (Miners & Exporters),
 Easton, Pa.

Wix, Chas. & Co., 53 Dey, New York
 Woodhouse, Sam'l F., Unity & Franklin, Phila.,
 Pa.

Colors (Steel)

Adler Color & Chemical Works, 100 William,
 New York
 Atlas Mineral & Machine Co., Lincoln, N. J.
 Doggett, Stanley, 101 Beekman, New York
 Forest City Paint & Varnish Co., Cleveland, O.
 National Paint Works, 92 William, New York

Colors & Fillers (Paper Makers')

FRENCH, SAM'L H. & CO., 4th & Cal-
 lowhill, Phila., Pa. (See adv. index, end of
 book)

Lucas, John & Co., 314 Race, Philadelphia, Pa.
 Tiemann, D. F. & Co., 46 Duane, New York
 Williams, C. K. & Co., Easton, Pa.

Column Coverings

A. B. Fireproofing Co. (Inc.), Schiller bldg,
 Chicago, Ill. Mill & Factory: Chicago
 Heights, Ill.

Atlas Fireproofing Co. (Solid Concrete), 1 Madi-
 son av, New York

Detroit Fireproofing Tile Co. ("Gypsite"), 250
 Beecher av, Detroit, Mich.

Federal Clay Mfg. Co., 170 B'way, New York

Haydenville Co., Haydenville, O.
 Person, O. D., 160 5th av, New York

*Columns (Cast Iron)

(See also Firms in Iron, Arch'l & Ornamental,
 marked with a *.)

CANTON FOUNDRY & MACHINE CO.,
 Canton, O. (See adv. index, end of book)

RUSSEL WHEEL & FOUNDRY CO.
 Detroit, Mich. (See adv. index, end of book)
 SNEAD & CO. IRON WORKS, Jersey
 City, N. J. (See adv. index, end of book)

Columns (Cast Iron Pipe)

Wood, R. D. & Co., 400 Chestnut, Phila., Pa.

Columns (Fire Proof)

Alpha Fireproof Column Co., 14th & Hender-
 son, Jersey City, N. J.

American Column Co., 252 Huron, Brooklyn,
 N. Y.

New York Fireproof Column Co. ("Lally"), 253
 B'way, New York

Columns, Porch, Etc. (Mfrs.)

American Column Co., Battle Creek, Mich.

Biggs, B. F. Pump Co., Lafayette, Ind.

Booth Column Co. (Wholesale Mfrs.), Toledo,
 O.

Bossert, Louis & Son Wholesale Mfrs.), Grand
 st. & Newtown Creek, Brooklyn, N. Y.

Buckeye Churn Co., Sidney, O.
 Bush Bros., Royersford, Pa.

CHICAGO MILL WORK SUPPLY CO.
 cor. 22d & Sangamon, Chicago, Ill. (See adv.
 index, end of book)

Colonial Column Mfg. Co. (Interlocked Lock
 Joint), 206 B'way, New York

Cream City Sash & Door Co. (for the Trade
 only), Milwaukee, Wis.

CROOK, W. T. (Mfrs. Agent "Ideal"
 Interlocking), 1133 B'way, New York. (See
 adv. below)

Curtis Bros. & Co. (Wholesale Mfrs.), Clinton,
 Ia.

Curtis & Bartlett Co. (Wholesale Mfrs.), Lin-
 coln, Neb.

Curtis & Yale Co. (Wholesale Mfrs.), Wausau,
 Wis.

Cypress Tank & Mfg. Co. (Wholesale Mfrs.),
 Patterson, La.

Davis, E. J. Mfg. Co., 251 W 21st, Chicago,
 Ill.

Del' Isle, S. G. (Mfrs. Agts.), Hibernia Bank
 bldg, New Orleans, La.

Dickey, A. & Co. (Plazza, etc., Wholesale),
 37 Bristol, Boston, Mass.

Dlabrow, M. A. & Co. (Wholesale Mfrs.), Ly-
 ons, Ia.

Doane & Jones Lumber Co. (Perfect Joint), El
 mira, N. Y.

Foster, Munger Co. (for the Trade only), W
 20th & S Sangamon, Chicago, Ill.

Furber, Frank O., Saco, Me.

Gauger, Jno. A. & Co. (For the trade only),
 W 22d & Laflin, Chicago, Ill.

Greer-Wilkinson Lumber Co., Oakland, Ind.

Harris & Cole Bros. (Poplar Bored), Cedar
 Falls, Ia., & Columbia, Tenn.

Hartmann Bros. Mfg. Co. (Lock Joint Staved)
 Mt. Vernon, N. Y.

Hyde-Murphy Co., Ridgway, Pa.

Jeffersonville Mfg. Co., Jeffersonville, Ind.

Koll, A. J., Los Angeles, Cal.

Lawrence, Newhall, Page & Co. (Wholesale
 Mfrs.), Augusta, Me.

L'Hote Lumber Mfg. Co., Carondelet walk & N
 Dupre, New Orleans, La.

Libell, Wm. C., 597 Austin av, Chicago, Ill.

McClelland, T. W. Co. (Wholesale Mfrs.), Dav-
 enport, Ia.

McMillen, R. Co. (for the Trade only), Oshkosh,
 Wis.

Malta Mfg. Co. (Wholesale Mfrs.), Malta, O.

Mann, Watson & Co., Muskegon, Mich.

Morgan Co., Oshkosh, Wis.

Morse Cedar Co. (White Cedar), Saginaw, Mich.

Nelson, C. T. Co. ("Columns, Balusters, Spin-
 dles, etc.," for the trade only), Columbus, O.

New York Fire Proof Column Co. ("Lally,"
 Damp & Fire Proof), 253 B'way, New York

Paine Lumber Co. (for the Trade only), Osh-
 kosh, Wis., & 1 Madison av, New York

Palmer, Fuller & Co. (Wholesale Mfrs.), 2244
 Lumber, Chicago

Pefrec, W. E. & Co. (Wholesale Mfrs.), Mil-
 ford, N. H.

Roberts, E. L. & Co. (for the Trade only), W.
 22d & Union place, Chicago, Ill.

Roberts, U. N. Co. (Wholesale Mfrs.), Daven-
 port, Ia.

Rockwell Mfg Co. (for the trade only), Milwau-
 kee, Wis.

Sanders, Henry Co., 77 Weed, Chicago, Ill.

Schaller-Hoerr Co., Chicago, Ill.

Schwerd, A. F., Allegheny, Pa.

Seattle Cedar Lumber Mfg. Co., Seattle, Wash.

Spangler, Frank Co. (Tongued & Grooved,
 Patent Staved), Toledo, O.

STEARNS, A. T. LUMBER CO.
 (Wholesale Mfrs.), Neponset, Boston, Mass.
 (See adv. index, end of book)

Union Column Co., Wilkinsburg, Pa.

Union Metal Post Co. (Sheet Metal), Canton, O.

Weybrecht's, J. T. Sons (Solid & Staved), Al-
 lanc, O.

Whatcom Falls Mills Co. (Red Cedar for Trade
 only), Bellingham, Wash.

Wheeler, Osgood Co. (Cedar & Fir), Tacoma,
 Wash.

Wilkinsburg Stair Co., Wilkinsburg, Pa.

Zimmerman, Chas. E., 204 Burnet, Syracuse,
 N. Y.

Comealongs or Wire Pullers.

Bnrr Mfg. Co., 131 Viaduct, Cleveland, O.

Cope, T. J. (Automatic), 3244 N 15th, Phila-
 delphia, Pa.

Dicke Tool Co. ("Howe"), Downers Grove, Ill.

Eureka Fence Mfg. Co. ("Sedgwick"), Rich-
 mond, Ind.

Enreka Tempered Copper Co., North East, Pa.

Klein, Mathias & Son, 87 W Van Buren, Chi-
 cago, Ill.

Locke Insulator Mfg. Co., Victor, New York

Patterson Bros., 27 Park row, New York

Western Electric Co. ("Buffalo Grip"), 259 S
 Clinton, Chicago, Ill., & 57 Bethune, New
 York

Commutator Building & Refilling

(See Armature Rewinding, & Commutator Re-
 winding)

Commutator Copper

(See Copper for Commutator Bars.)

Commutator Dressing

(See Compounds, Commutator.)

Commutator Segments.

(See Bars, Commutator.)

Commutator Truing Device.

Akron Electrical Mfg. Co. ("The Carr"), Akron,
 O.

Fort Wayne Electric Works, Fort Wayne, Ind.

Jordan Bros., 74 Beekman, New York

Compasses

(See also Dividers)

Bliss, J. & Co., 128 Front, New York

Gurley, W. & L. E., Troy, New York

Johnson, Wm. (Hedenberg Works), Newark,
 N. J.

Kraeuter & Co., 577 18th av, Newark, N. J.

McAllister, T. H., 49 Nassau, N. Y.

Use WATER PROOF COMPO-BOARD

in place of Lath and Plaster. Warmer, More Durable, and Easier Applied.

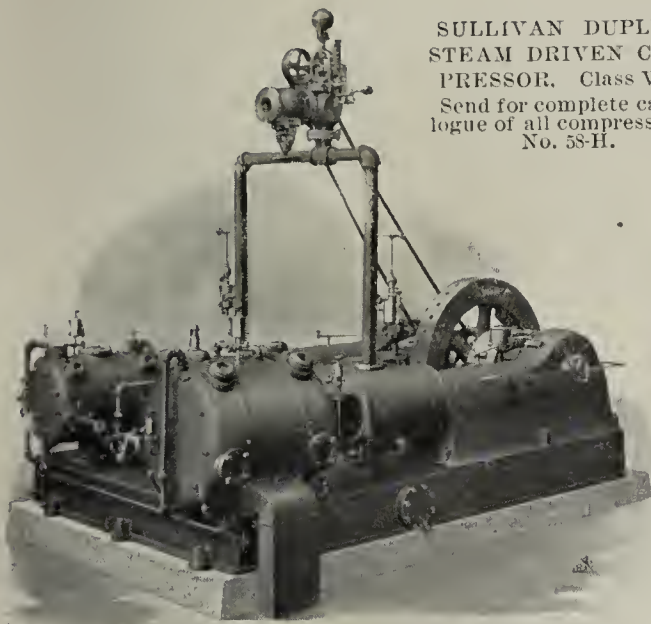
—SEND FOR SAMPLE AND DESCRIPTIVE MATTER.—

NORTHWESTERN COMPO-BOARD CO.,

Minneapolis, Minn.

"IDEAL INTERLOCKED COLUMNS" Interior and Exterior Architectural Ornaments
 W. T. CROOK, 1135 Broadway, New York

Sullivan Air Compressors and Drills



SULLIVAN DUPLEX
STEAM DRIVEN COM-
PRESSOR. Class WE.
Send for complete cata-
logue of all compressors.
No. 58-H.

SIMPLE EFFICIENT ECONOMICAL



SULLIVAN ROCK DRILLS on the Panama Canal,
Excavating the Bas Obispo Cut. Catalogue 51

STONE CHANNELERS

COAL CUTTERS

DIAMOND DRILLS

CHICAGO
NEW YORK
CLAREMONT, N. H.
PITTSBURG
KNOXVILLE
JOPLIN, MO.

Sullivan Machinery Co.

ST. LOUIS
DENVER
SAN FRANCISCO
SALT LAKE
EL PASO
BUTTE

CHICAGO PNEUMATIC TOOL CO.

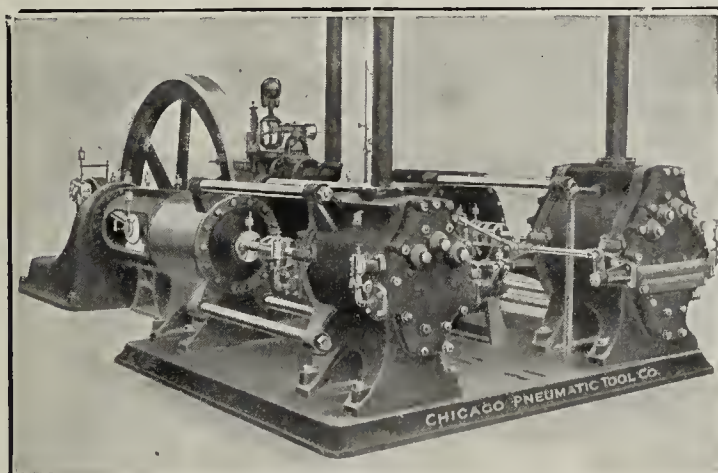
CHICAGO—NEW YORK—BOSTON—PHILADELPHIA—PITTSBURG—DETROIT—CLEVELAND
ST. LOUIS—ST. PAUL—DENVER—BUTTE—SALT LAKE—LOS ANGELES—
SAN FRANCISCO—PORTLAND—SEATTLE

COMPRESSOR BUILDERS

WE MANUFACTURE

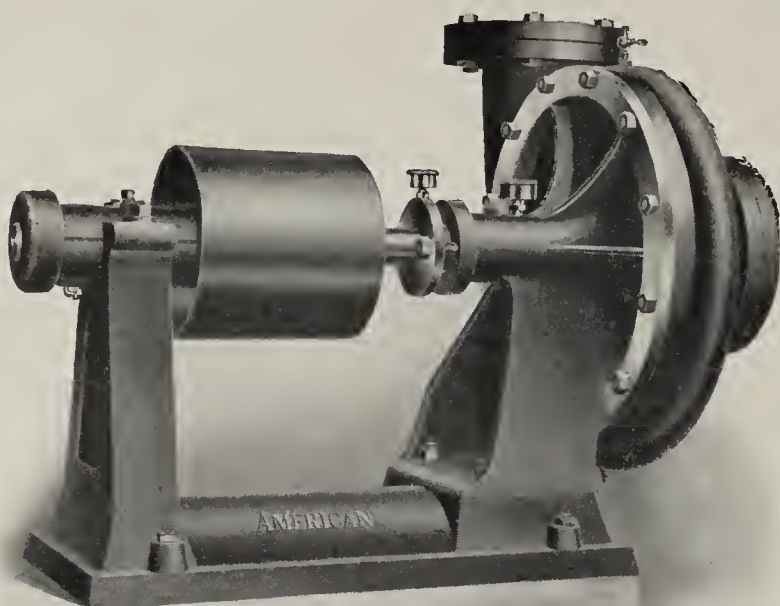
FRANKLIN COMPRESSORS

IN MORE THAN ONE
HUNDRED STYLES AND
SIZES, FOR EVERY PUR-
POSE TO WHICH COM-
PRESSED AIR IS ADAP-
TED.



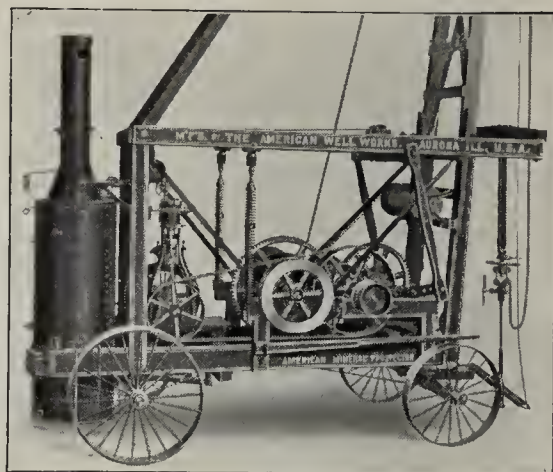
SEND FOR OUR CATA-
LOGUES AND LET US
QUOTE YOU ON YOUR
REQUIREMENTS.
EACH MACHINE IS SOLD
UNDER A LIBERAL
GUARANTEE.

FRANKLIN AIR COMPRESSOR, CLASS C. S. C.
Having Compound Steam Cylinders and Two Stage Air Cylinders with
mechanically operated inlet valves. Separate Inter-Cooler not shown



HORIZONTAL CENTRIFUGAL PUMPS

All styles—and for any head up to 250 feet.



WELL DRILLING AND MINERAL PROSPECTING MACHINERY AND TOOLS

Removes a core from solid formations. Rotary—
Jetting—Hydraulic and Rock Drilling for Water, Oil,
Coal, Mineral, Gas, Etc. Any diameter—Any depth.

“AMERICAN” MACHINERY

MANUFACTURED BY

THE AMERICAN WELL WORKS

General Office and Factory, AURORA, ILL., U. S. A.

DISTRICT SALES OFFICES:

CHICAGO

First National Bank Building

PITTSBURGH, PA.

13—19 Wood Street

DENVER, COLO.

18th and Lawrence Streets

SAN FRANCISCO

305 Market Street

LOS ANGELES, CAL.

Henshaw, Bulkley & Co.

JOPLIN, MO.

DALLAS, TEX.

NEW YORK

2—4 Stone Street

NEW ORLEANS, LA.

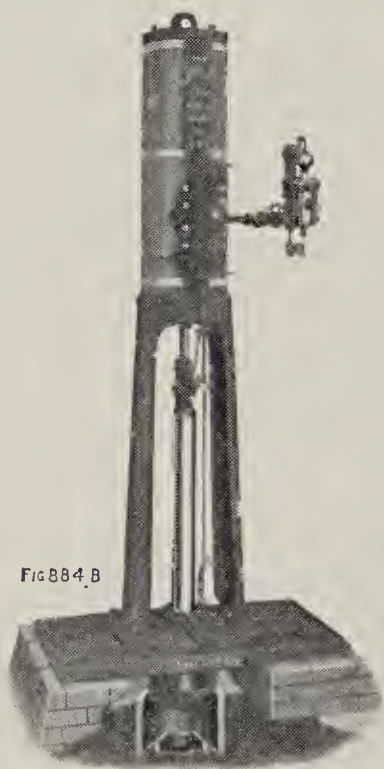
Common & Tchoupitoulas

ST. PAUL, MINN.

612 Manhattan Building

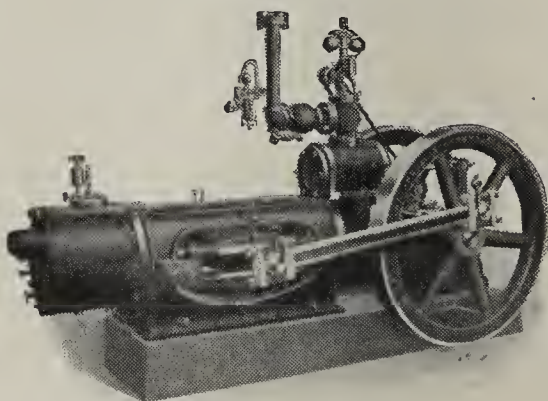
PORTLAND, ORE.

2nd and Ash Streets



DEEP WELL PUMPING MACHINERY

Steam or Power Driven — and using all Brass
Double Acting Water Cylinders, will furnish more
water than older styles can.



AIR COMPRESSORS

All styles and sizes, for all duties.
Heavy — Durable — Practical.

Merrill's, R. Sons, 66 South, New York
 Negus, T. S. & J. D., 140 Water, New York
 Peck, Stow & Wilcox Co., Southington, Conn.
 Pfister, Herm, 428 Plum, Cincinnati, O.
QUEEN & CO. (Inc.), n. w. c 8th & Arch, Philadelphia, Pa. (See adv. index, end of book)
 Ritchie, E. S. & Sons, Brookline, Mass.

SOLTMANN, E. G.

(Also everything for the Architect, Engineer & Draughting Room), 125 E 42d, New York. (See adv. index, end of book)
 Starrett, L. S. Co., Athol, Mass.
 Taylor Bros. Co., Rochester, N. Y.
 Tower & Lyon Co., 95 Chambers, New York

Compo Board (Waterproof Surface)

NORTHWESTERN COMPO BOARD
 Co., Minneapolis, Minn. (See adv. on preceding page)

SOLTMANN, E. G.

(Useful in Every Frame Building), 125 E 42d, New York. (See adv. index, end of book)

Composite Boards*SOLTMANN, E. G.**

(Made in Extra Large Sizes up to 4½ x 14 ft.), 125 E 42d, New York. (See adv. index end of book)

Compounds (Case Hardening & Tempering)

Altamus, W. F. & Co. ("Diamond" Tool Hardening & Tempering Compound), Hartford, Conn.
 Houghton, E. F. & Co. ("Houghton's" Case Hardening, Hydro-Carbonated Bone Black for Tempering "Houghton's" Tempering Oil), 240 W. Somerset, Phila., Pa.
 Mosso, C. A. (Tool Hardening & Tempering), 39 Seeley av., Chicago, Ill.
 Ohlo Nut & Bolt Co. (Annealing), Berea, O.
 Rogers & Hubbard Co. ("Hubbard's" Granulated & Parneacha Raw Bone for Case Hardening, etc.), Middletown, Conn.

Compounds (Commutator)

Allen, L. B. Co., 1336 Columbia av., Chicago
 Atlantic Mfg. Co. ("Hiko"), Allenhurst, N. J.
 Bernard, E. G. Co. (the E. G. B.), Troy, N. Y.
 Chicago Solder Co., 44 Union, Chicago, Ill.
 Cleveland Armature Works, Coe & Hamilton, Cleveland, O.
 Crown Woven Wire Brush Co., Salem, Mass.
 Diamond Compound Co., Harrison, N. J.
DIXON, JOS. CRUCIBLE CO. (Graphite), Jersey City, N. J. (See adv. index & branch offices, end of book)
 Goldmark & Wallace (Trotter's), 67 Cortlandt, New York
 Hart & Co. ("Red Cross"), Monadnock blk, Chicago, Ill.
 Kinsman Electric & Railway Supply Co. ("Peerless"), 91 Liberty, New York
 Le Valley Vitae-Carbou Brush Co. (Lubricating), 125 E 42d, New York
 Little, O. C. Pulley Coating Co., Menasha, Wis.

McLennan, K. & Co. ("Gale's"), 130 Dearborn, Chicago, Ill.
 McLaughlin, Jas. & Co. ("The Best Commutator Compound"), 586 Fulton, Chicago, Ill.
 Mullinix Electric Co. (Slick), Norwood, O.
 Nagel, W. G. Electric Co. ("The Eclipse"), Toledo, O.
 Ohlo Electrical Specialty Mfg. Co., Troy, Ohio
 Pettugell, Andrews Co. ("Old Colony"), Pearl & Atlantic av, Boston, Mass.
WALSH, JNO. F. CO. ("Anti-Spark"), Pittsfield, Mass. (See adv. index, end of book)
 Yankee Commutator Compound Co. ("Yankee"), 516 W. 25th, N. Y. City

Compounds (Core)

American Glutrose Co. ("Glutrose"), Camden, N. J.
 Buckeye Milling Co., Cleveland, O.
 Holland Linseed Oil Co., Chicago, Ill.
 Mills, C. E. Oil Co. ("Syracuse" Dry), Syracuse, N. Y.
 National Jeloluse Co., 547 W 43d, New York
OSBORN MFG. CO., 5401 Hamilton
 N. E., Cleveland, O. (See adv. index, end of book)
SMITH, J. D. FOUNDRY SUPPLY CO.
 Cleveland, O., 1581 Columbus rd., N. W. (See adv. index, end of book)
 Sterling Oil Co. ("Sterling" Core Oil), Emlenton, Pa.
 Williamsport Chemical Co. (Croil), Williamsport, Pa.

Compounds (Damp Resisting)

Antihydrine Co. (Antihydrine), Washington bldg, New Haven, Conn.
 Banzal Mfg. Co., 24 E 23d, New York
 Grote, Geo. W. & Co., 432 E 102d, New York
 Horn, A. C. (Symmentrex & Dehydrating), 8 Burling Slip, New York
 Manhattan Dampproofing Co., 1904 Broadway, New York
 Universal Compound Co., 88 Maiden Lane, New York

Compounds (Drilling)

Lewis Drilling Compound Co., Sauquoit, N. Y.
 White & Bagley Co., Worcester, Mass.

Compounds (Elevator)

Schade, Albert, 627 Cherry, Phila., Pa.
 Zurn, O. F. Co., 23 S. 5th, Phila., Pa.

Compounds (Grinding)

Hammett, H. G. ("Trojan"), 478 8th, Troy, N. Y.

Compounds (Motor Chain)

Climax Refining Co., Williamson Bldg., Cleveland, O.
DIXON, JOS. CRUCIBLE CO. ("Dixon's") for Transmission Chains, Jersey City, N. J. (See adv. index & branch offices, end of book)

Compounds (Pipe Joint)

(See also Cements, Pipe Joint)
DIXON, JOS. CRUCIBLE CO. ("Dixon's") Graphite, Jersey City, N. J. (See adv. index & branch offices, end of book)

Edgecombe Co. ("No Leak"), Indianapolis Ind.
 Tripp, Allen H. Co. (Tripp's), 118 Michigan av, Chicago, Ill.

Compounds (Splicing)

Massachusetts Chemical Co., Walpole, Mass.

Compounds (Welding)

Cortland Welding Compound Co. ("Climax" & "Borax-Ettee"), Cortland, N. Y.
 Dingee, M. H. (Welding, "Sparger"), Lynchburg, Va.

Compression Work

(See Cocks & Bibbs, Compression.)

Compressors (Air)**ALABAMA.**

BIRMINGHAM—INGERSOLL-RAND CO.
 (of New York City) (Steam, Belt, Electric, Corliss & Steam Driven), 1918 Morris av. (See adv. index, end of book)

CALIFORNIA.

LOS ANGELES—CHICAGO PNEUMATIC
 Tool Co. ("Franklin"), (Machinery & Electrical Co., Rep.). (See adv. index, end of book)

INGERSOLL-RAND CO. (of New York City) (Steam, Belt, Electric, Corliss & Steam Driven), 164 N Los Angeles. (See adv. index, end of book)

SAN FRANCISCO—CHICAGO PNEUMATIC
 Tool Co. ("Franklin"), 526 Mission. (See adv. index, end of book)
 Compressed Air Machinery Co. ("Giant"), 24 1st

FAIRBANKS, MORSE & CO. (Air, Gasoline & Steam), 310 Market. (See adv. index, end of book)

MINNEAPOLIS STEEL & MACHINERY
 Co., 633 Monadnock bldg. (See adv. index, end of book)

Fulton Iron Works, 15 1st
INGERSOLL-RAND CO. (of New York City) (Steam, Belt, Electric, Corliss & Steam Driven), 110 Fremont. (See adv. index, end of book)

Risdon Iron Works, Stuart, c Folsom
 Rix Compressed Air & Drill Co., 396 Mission

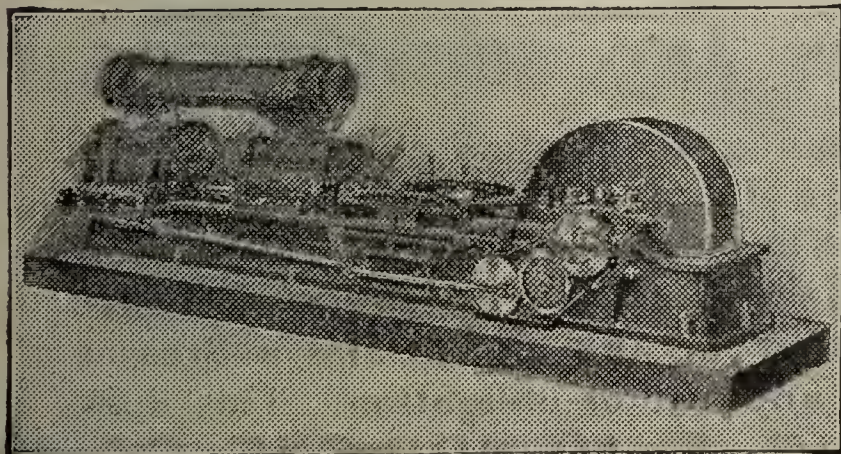
SULLIVAN MACHINERY CO. (Duplex, Corliss & Straight Line), 319 Howard. (See adv. index, end of book)

COLORADO.

DENVER—CHICAGO PNEUMATIC TOOL
 Co. ("Franklin"), 13th & Lawrence. (See adv. index, end of book)

FAIRBANKS, MORSE & CO. (Air, Gasoline & Steam), 1600 17th. (See adv. index, end of book)

INGERSOLL-RAND CO. (of New York City) (Steam, Belt, Electric, Corliss & Steam Driven), 1718 California. (See adv. index, end of book)

**The Norwalk Iron Works Co.**

SOUTH NORWALK, CONN.

BUILDERS OF

Air and Gas Compressors

For Operating Rock Drills, Coal Mining
 Machines, Pneumatic Locomotives and
 for every appropriate purpose.

JEFFREY MFG. CO., Equitable
bldg. (See adv. index, end of book)
MINNEAPOLIS STEEL & MACHIN-
ery Co., 313 Exchange bldg. (See adv.
index, end of book)
SULLIVAN MACHINERY CO. (Du-
plex, Corliss & Straight Line), 1748 B'way.
(See adv. index, end of book)
Stearns-Roger Mfg. Co., 1718 California
LITTLETON-Leyner, J. Geo. Engineering
Works Co. ("Leyner" Belt, Steam, Elec-
tric, Water Power, etc.)

CONNECTICUT.

BRIDGEPORT—Pacific Iron Works
SOUTH NORWALK—NORWALK IRON
Works Co. (Air & Gas Compressors). (See
adv. on preceding page)

ILLINOIS.

AURORA—AMERICAN WELL WORKS.
(See adv. opp. next page)
CHICAGO—CHICAGO PNEUMATIC
Tool Co. ("Franklin"), Fisher bldg. (See
adv. index, end of book)
FAIRBANKS, MORSE & CO. (Air,
Gasoline & Steam), Franklin & Monroe.
(See adv. index, end of book)
Fisher, A. J., 56 S Clinton
INGERSOLL-RAND CO. (of New
York City) (Steam, Belt, Electric, Corliss
& Steam Driven), Old Colony bldg. (See
adv. index, end of book)
JEFFREY MFG. CO. (See adv. in-
dex, end of book)
MANNING, MAXWELL & MOORE
(Belt Driven, etc.), 22, 24, 26 S Canal.
(See adv. index, end of book)
MINNEAPOLIS STEEL & MACHIN-
ery Co. (Cavanaugh-Darley Co., Rep.),
21-25 Plymouth court. (See adv. index,
end of book)
SULLIVAN MACHINERY CO. (Du-
plex, Corliss & Straight Line), Railway Ex-
change bldg. (See adv. index, end of book)
United Pump & Power Co., Old Colony bldg
QUINCY—GARDNER GOVERNOR CO.
(Belt & Motor Driven & Steam Actuated).
(See adv. index, end of book)
Quincy Engine Works (Corliss, 1500 feet up)

INDIANA.

CONNERSVILLE—Roots, P. H. & F. M. Co.
INDIANAPOLIS—Dean Bros. Steam Pump
Works, 323 W 10th
FAIRBANKS, MORSE & CO. ("Air,
Gasoline & Steam). (See adv. index, end
of book)
Spacke, F. W. Co. (Belt or Motor Driven,
1 to 100 ft. per minute)

KENTUCKY.

LOUISVILLE—FAIRBANKS, MORSE &
Co. (Air, Gasoline & Steam), 519 Main.
(See adv. index, end of book)
National Foundry & Machine Co.

LOUISIANA.

NEW ORLEANS—MINNEAPOLIS STEEL
& Machinery Co., 417 Hennen bldg. (See
adv. index, end of book)

MASSACHUSETTS.

BOSTON—CHICAGO PNEUMATIC TOOL
Co. ("Franklin"), Exchange bldg. (See adv.
index, end of book)
INGERSOLL-RAND CO. (of New
York City) (Steam, Belt, Electric, Corliss
& Steam Driven), 77 Oliver. (See adv.
index, end of book)

MICHIGAN.

BATTLE CREEK—American Steam Pump Co.
Union Steam Pump Co.
DETROIT—CHICAGO PNEUMATIC
Tool Co. ("Franklin"), 2d & Amsterdam.
(See adv. index, end of book)
FAIRBANKS, MORSE & CO. (Air,
Gasoline & Steam), 89 Jefferson. (See adv.
index, end of book)
Great Lakes Engineering Works (Vertical
Compound, High Duty)
INGERSOLL-RAND CO. (of New
York City) (Steam, Belt, Electric, Corliss
& Steam Driven) (See adv. index, end of
book)

MINNESOTA.

MINNEAPOLIS—FAIRBANKS, MORSE &
Co. (Air, Gasoline & Steam), 220 Nicol-
let av. (See adv. index, end of book)
MINNEAPOLIS STEEL & MACHIN-
ery Co. (See adv. index, end of book)
ST. PAUL—CHICAGO PNEUMATIC
Tool Co. ("Franklin"), Pioneer Press bldg.
(See adv. index, end of book)
FAIRBANKS, MORSE & CO. (Air,
Gasoline & Steam), 234 E 3d. (See adv.
index, end of book)
INGERSOLL-RAND CO. (of New
York City) (Steam, Belt, Electric, Corliss
& Steam Driven), 4th & Wacouta. (See
adv. index, end of book)

MISSOURI.

JOPLIN—AMERICAN WELL WORKS.
(See adv. index, end of book)
SULLIVAN MACHINERY CO. (Du-
plex, Corliss & Straight Line). (See adv.
index, end of book)
KANSAS CITY—FAIRBANKS, MORSE &
Co. (Air, Gasoline & Steam), 1217 Union
av. (See adv. index, end of book)
Forrester-Swenson Construction Co.
MINNEAPOLIS STEEL & MACHIN-
ery Co., 1302 W 11th. (See adv. index,
end of book)
ST. LOUIS—CHICAGO PNEUMATIC
Tool Co. ("Franklin"), 516 N 3d. (See
adv. index, end of book)
Curtis & Co. Mfg. Co. (Automatic Vertical
Type, Belt & Electric Driven), 2201 Wash-
ington av
FAIRBANKS, MORSE & CO. (Air,
Gasoline & Steam), 8th & Clark av. (See
adv. index, end of book)
INGERSOLL-RAND CO. (of New
York City) (Steam, Belt, Electric, Corliss
& Steam Driven), Fullerton bldg. (See
adv. index, end of book)
St. Louis Steam Engine Co. (50 to 100 lbs.),
16 S Commercial
SULLIVAN MACHINERY CO. (Du-
plex, Corliss & Straight Line), Missouri
Trust bldg. (See adv. index, end of book)

MONTANA.

BUTTE—CHICAGO PNEUMATIC TOOL
Co. ("Franklin"). (Western Mining Supply
Co., Rep.). (See adv. index, end of book)
INGERSOLL-RAND CO. (of New
York City) (Steam, Belt, Electric, Corliss
& Steam Driven), 300 Main. (See adv.
index, end of book)
SULLIVAN MACHINERY CO. (Du-
plex, Corliss & Straight Line). (See adv.
index, end of book)
HELENA—INGERSOLL-RAND CO. (of
New York City) (Steam, Belt, Electric,
Corliss & Steam Driven). (See adv.
index, end of book)

NEBRASKA.

OMAHA—FAIRBANKS, MORSE &
Co. (Air, Gasoline & Steam). (See adv.
index, end of book)
MINNEAPOLIS STEEL & MACHIN-
ery Co., 1212 Harney. (See adv. index,
end of book)

NEW HAMPSHIRE.

CLAREMONT—SULLIVAN MACHINERY
Co. (Duplex, Corliss & Straight Line).
(See adv. index, end of book)

NEW YORK CITY.

Borough of Brooklyn.

BROOKLYN—American Air Compressor Works,
Van Brunt & Summitt
Crowell, Gilmer ("Crowell"), 292 Graham
Davidson, M. T., 43 Keap
Eureka Pneumatic Spray Co. ("Eureka"), 21
Decatur
Foster Pump Works, 224 Plymouth
Guild & Garrison, Kent av c S 10th

Boroughs of Manhattan & Bronx

NEW YORK—American Air Compressor Works,
26 Cortlandt
AMERICAN WELL WORKS, 2
Stone. (See adv. index, end of book)
CHICAGO PNEUMATIC TOOL CO.,
("Franklin"), Liberty. (See adv. index, end
of book)
Clayton Air Compressor Works, 116 Liberty
Davidson, M. T., 141 B'way
FAIRBANKS, MORSE & CO. (Air,
Gasoline & Steam), 133 Liberty. (See
adv. index, end of book)
GENERAL ELECTRIC CO. (Elec-
tric), 44 Broad. (See adv. index, end of
book)
INGERSOLL-RAND CO. (of New
York City) (Steam, Belt, Electric, Corliss
& Steam Driven), 11 B'way. (See adv.
index, end of book)
International Steam Pump Co., 114 Liberty
JEFFREY MFG. CO., 77 Warren.
(See adv. index, end of book)
McKiernan Drill Co., 170 B'way
MANNING, MAXWELL & MOORE
(Belt Driven, etc.), 85, 87 & 87 Liberty.
(See adv. index, end of book)
Niles-Bement-Pond Co. (Belt Driven, etc.),
111 B'way

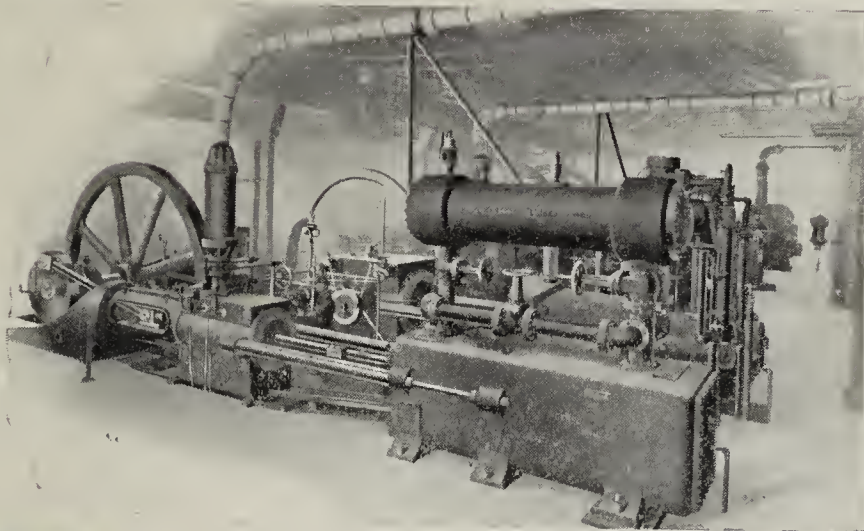
TO OUR ADVERTISERS AND SUBSCRIBERS.

At any time during the year, that you do not find classified in our book the names and addresses of the Manufacturers of any ARTICLE you are in the market to PURCHASE, please write us, giving as complete particulars as possible, and we will always endeavor to render you PROMPT SERVICE in furnishing you the names and addresses of such Manufacturers and without any cost or obligation. This does not include Mailing Lists.

S. E. HENDRICKS CO.

AIR COMPRESSORS

Nearly a million horse-power built and sold to date — Straight line and duplex types—Steam and power driven—Single, two, three and four stages—Pressures from 15 to 3000 lbs.—Capacities 8 to 9000 cu. ft. per min.—Built and sold under a guarantee of interchangeability of parts and superior materials. Catalogs 36 and R37.



COAL CUTTERS

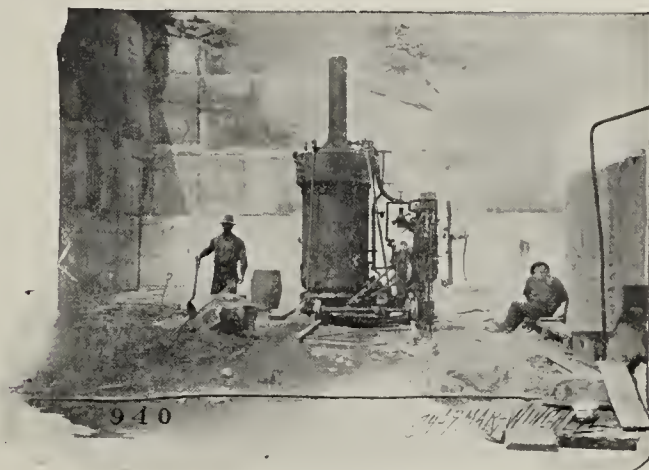
The "NEW INGERSOLL" Puncher, with a greater cutting capacity, lower repair cost and higher sustained economy than any other pick machine.—Catalog 52.

The "RADIALAXE" for shearing and undermining on any pitch, securing the advantages of blasting on "open end."—Catalog 353.

CHANNELERS

Marked by high economy, correct design, great endurance and an unequalled cutting capacity—Adapted to all rocks—"Monitor" Heavy Track Channelers—"Ram" Marble Channelers—"Broncho" Bar Channelers—Undercutting Channelers—

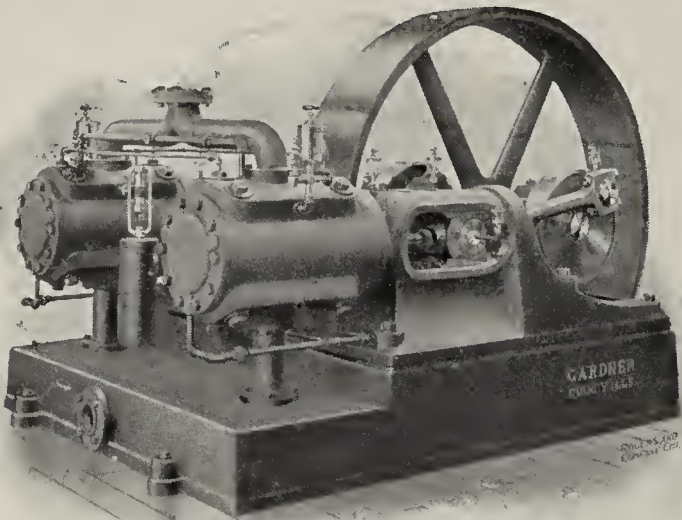
"Electric - Air" Track Channelers—Catalog 60.



| | | | |
|---------------------------|-----------------------------------|-------------|--------------|
| ROCK DRILLS | CALYX <small>DIAMOND-LESS</small> | CORE DRILLS | SEE PAGE 326 |
| PNEUMATIC PUMPING SYSTEMS | AIR TOOLS | | SEE PAGE 896 |

INGERSOLL-RAND CO.

11 BROADWAY, NEW YORK

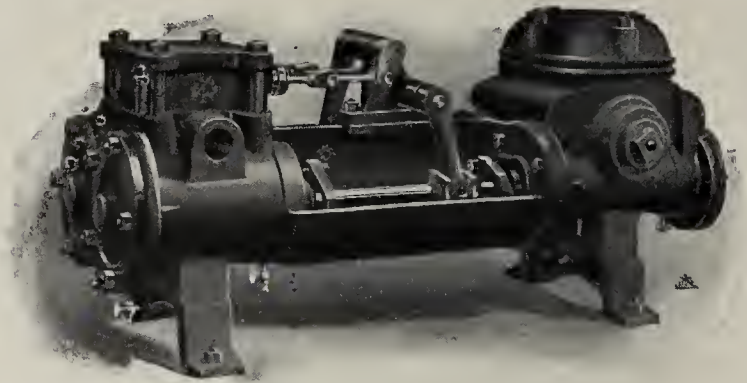


Gardner Air Compressors Duplex Steam Pumps

represent the most "up-to-date" Construction and are standard in their respective lines because of their well known superior merit. "It's a Gardner"—means it's right.

The Gardner Governor Co.
QUINCY, ILL.

ASK FOR INFORMATION.

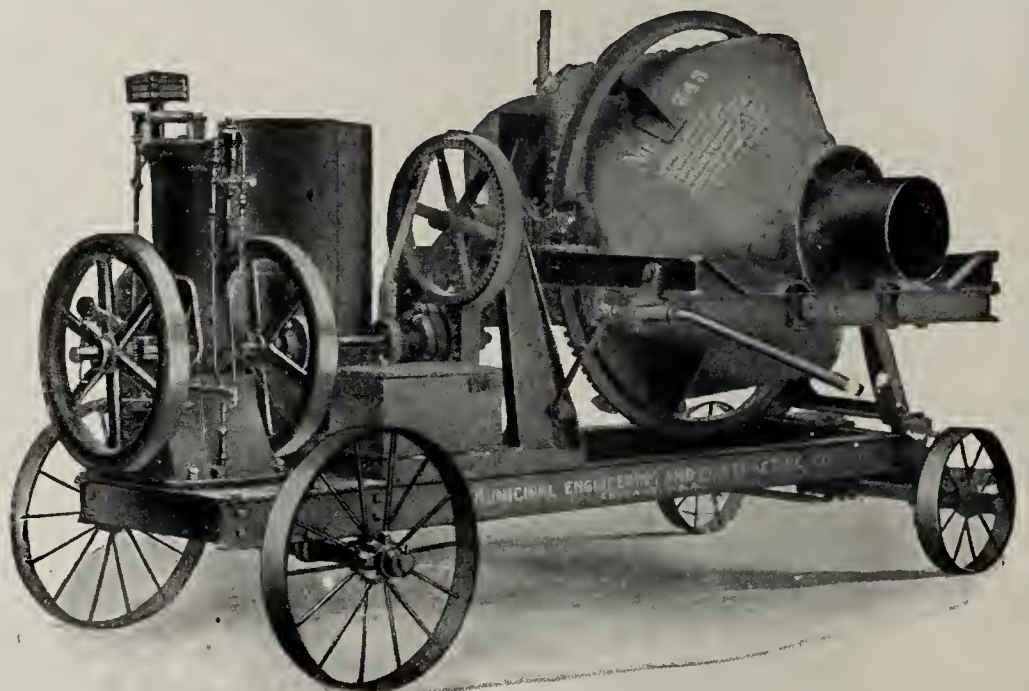


TILTING vs. NON-TILTING MIXERS

TILTING Machines are **pivoted** in a frame, and being **perfectly balanced** are **dumped instantly** at will of operator. Pivoting is **absolutely** the **simplest** form of **mechanism**. In **non-tilting** mixers the materials are **bailed up** in **small receptacles** and deposited on a discharge spout, which means **greater complication**, **multiplicity** of parts, **greater wear** and much **slower speed**. **Conclusion**:—Which is **simpler**, **quicker** and **more effective**, to drain a pail of water by upsetting, or by bailing it out with a small cup?

The Chicago Improved Cube Concrete Mixer

Has no **paddles** or **small receptacles** inside of **drum**, therefore does not clog. The **Cube** with **breaker rods** insures a mixture that is **absolutely uniform**. Produces in continuous operation **60 batches per hour**, and has frequent **records** of **two batches per minute**.



CATALOGUE No. 8

Used exclusively in the principal U.S. Government Testing Laboratories

Municipal Engineering & Contracting Co.

Railway Exchange, Chicago, Ill.

New York Office, Room 1301, West Street Office Building

Platt Iron Works, 100 B'way
Roteng Engineering Corporation, 299 B'way
SULLIVAN MACHINERY CO. (Duplex Corliss Straight Line), 42 B'way. (See adv. index, end of book)
WATSON, BENJ. (New & Second Hand), 66 Beaver. (See adv. index, end of book)

(END OF NEW YORK CITY.)

SCHENECTADY—GENERAL ELECTRIC Co. (Electric) (See adv. index, end of book)
UTICA—Parker, J. H. & Son

OHIO.

CINCINNATI—FAIRBANKS, MORSE & Co. (Air, Gasoline & Steam), 307 Walnut. (See adv. index, end of book)
CLEVELAND—Bishop & Babcock Co., Hamilton av

CHICAGO PNEUMATIC TOOL CO. ("Franklin"), Lake & Kirkland. (See adv. index, end of book)

FAIRBANKS, MORSE & CO. (Air, Gasoline & Steam), 99 Water. (See adv. index, end of book)

INGERSOLL-RAND CO. (of New York City) (Steam, Belt, Electric, Corliss & Steam Driven), Williamson bldg. (See adv. index, end of book)

COLUMBUS — JEFFREY MFG. CO. (See adv. index, end of book)
Weinman Machine Works (Small)

DAYTON—DAYTON PNEUMATIC TOOL Co. (See adv. index, end of book)
Platt Iron Works Co.

ST. MARYS—Heisler Mfg. Co. (High Duty)
UPPER SANDUSKY—National Steam Pump Co. ("National")

OREGON.

PORTLAND—CHICAGO PNEUMATIC Tool Co. ("Franklin"), 236 Burnside. (See adv. index, end of book)

FAIRBANKS, MORSE & CO. (Air, Gasoline & Steam). (See adv. index, end of book)

PENNSYLVANIA.

ALLEGHENY—Hall Steam Pump Co.
BRADFORD—Blaisdell Machinery Co. (all types)
CHESTER—Wetherill, R. & Co.
ERIE—Bury Compressor Co. (Steam, Belt & Electrically Driven)

FRANKLIN — CHICAGO PNEUMATIC Tool Co. (See adv. index, end of book)

PHILADELPHIA—CHICAGO PNEUMATIC Tool Co. ("Franklin"), Arcade bldg. (See adv. index, end of book)

INGERSOLL-RAND CO. (of New York City) (Steam, Belt, Electric, Corliss & Steam Driven), Arcade bldg. (See adv. index, end of book)

Kensington Engine Works (Ltd.), (belt, steam & motor driven), 245 N Broad
Philadelphia Engineering Co., Drexel bldg
Southwark Foundry & Machine Co., 5th, e Wash av

Underwood, H. B. & Co. (Compound Tandem Belt), 1027 Hamilton

PITTSBURG—CHICAGO PNEUMATIC Tool Co. ("Franklin"), 10-12 Wood. (See adv. index, end of book)

INGERSOLL-RAND CO. (of New York City) (Steam, Belt, Electric, Corliss & Steam Driven), Farmers Bank bldg. (See adv. index, end of book)

JEFFREY MFG. CO. (See adv. index, end of book)

MINNEAPOLIS STEEL & MACHINERY Co., 1007 Bessemer bldg. (See adv. index, end of book)

SULLIVAN MACHINERY CO. (Duplex Corliss & Straight Line), Farmers' Bank bldg. (See adv. index, end of book)

WESTINGHOUSE AIR BRAKE CO., The (Steam Driven)

WESTINGHOUSE TRACTION Brake Co. (Motor Driven)

Wilson-Snyder Mfg. Co., Ross & Water

PORT CARBON—Franklin Iron Works
SCRANTON—Allis-Chalmers Co. ("Reynolds") (Belted Steam, etc.)

WARREN—JACOBSON MACHINE MFG. Co. (See adv. index, end of book)

WILKES-BARRE—Vulcan Iron Works

RHODE ISLAND.

PROVIDENCE—Builders' Iron Foundry
General Fire Extinguisher Co.

TENNESSEE.

CHATTANOOGA—Chattanooga Machinery Co.
KNOXVILLE—JEFFREY MFG. CO. (See adv. index, end of book)
SULLIVAN MACHINERY CO. (Duplex Corliss & Straight Line), 206 St. Louis. (See adv. index, end of book)

TEXAS.

DALLAS—AMERICAN WELL WORKS. (See adv. index, end of book)

EL PASO—INGERSOLL-RAND CO. (of New York City) (Steam, Belt, Electric, Corliss & Steam Driven), 121 San Francisco. (See adv. index, end of book)

MINNEAPOLIS STEEL & MACHINERY Co., 505 Guaranty Trust bldg. (See adv. index, end of book)

SULLIVAN MACHINERY CO. (Duplex Corliss & Straight Line). (See adv. index, end of book)

UTAH.

SALT LAKE CITY—CHICAGO PNEUMATIC Tool Co. ("Franklin") (Salt Lake Hardware Co., Rep.). (See adv. index, end of book)

FAIRBANKS, MORSE & CO. (Air, Gasoline & Steam), 218 S. W. Temple. (See adv. index, end of book)

MINNEAPOLIS STEEL & MACHINERY Co., 324 Dooley blk. (See adv. index, end of book)

SULLIVAN MACHINERY CO. (Duplex Corliss & Straight Line), 128 Keith bldg. (See adv. index, end of book)

VIRGINIA.

NORFOLK—CHICAGO PNEUMATIC Tool Co. ("Franklin"). (See adv. index, end of book)

WASHINGTON.

SEATTLE—CHICAGO PNEUMATIC Tool Co. ("Franklin"), Hallidie Machinery Co., Reps. (See adv. index, end of book)

INGERSOLL-RAND CO. (of New York City) (Steam, Belt, Electric, Corliss & Steam Driven). (See adv. index, end of book)

MINNEAPOLIS STEEL & MACHINERY Co., 138 Globe bldg. (See adv. index, end of book)

SPOKANE—FAIRBANKS, MORSE & CO. (Air, Gasoline & Steam) (See adv. index, end of book)

WISCONSIN.

MILWAUKEE—ALLIS-CHALMERS CO. (Belted, Steam, Hydraulic & Electric) (See adv. index, end of book)

FILER & STOWELL CO., Becher & Ziemer. (See adv. index, end of book)
Nordberg Mfg. Co.

Compressors (Air, Portable)

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index, end of book)

INGERSOLL-RAND CO., 11 B'way, New York. (See adv. index & branch offices, end of book)

MacLeod, Walter & Co. (Motor Driven, etc.), Cincinnati, O.

***Compressors (Air, Portable, on Auto Trucks)**

STANDARD PNEUMATIC SPRAY CO., 500 5th av, New York. (See adv. index, end of book)

***Compressors (Air, Second-Hand)**

SHAW, WILLIS, 171 La Salle, Chicago, Ill. (See adv. index, end of book)

Compressors (Ammonia)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

Creamery Package Mfg. Co., 182 E Kenzie, Chicago, Ill.
Great Lakes Engineering Works, Detroit, Mich.
Gnild & Garrison, Kent av & S 10th, Brooklyn, N. Y.
INGERSOLL-RAND CO., 11 B'way, New York. (See adv. index & branch offices, end of book)
VILTER MFG. CO., 1046 Clinton, Milwaukee, Wis. (See adv. index, end of book)

***Compressors (Corliss)**

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)

INGERSOLL-RAND CO. (Steam Driven), 11 B'way, New York. (See adv. index and branch offices, end of book)

Compressors (Corn Shock)

Hunt, Helm, Ferris & Co. ("Star"), Harvard, Ill.
Tie Co., Unadilla, N. Y.

Compressors (Gas)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)

Blaisdell Machinery Co., Bradford, Pa.
Bury Compressor Co., Erie, Pa.

CHICAGO PNEUMATIC TOOL CO., Fisher bldg, Chicago, Ill. (See adv. index & branch offices, end of book)

Clayton Air Compressor Works, 116 Liberty, New York

Hartford Engine Works, Hartford, Conn.

INGERSOLL-RAND CO., 11 B'way, New York. (See adv. index and branch offices, end of book)

International Steam Pump Co., 114 Liberty, New York

Kroeschell Bros. Co., 55 Erie, Chicago, Ill.

Leyner, J. G. Eng'r Works Co., Littleton, Colo.

MURPHY, CHRISTOPHER & CO. ("Fisher"), 204 Dearborn, Chicago, Ill. (See adv. index, end of book)

Nordberg Mfg. Co., Milwaukee, Wis.

NORWALK IRON WORKS CO., South Norwalk, Conn. (See adv. index, end of book)

Platt Iron Works Co., Dayton, O., & 100 B'way, New York

St. Louis Steam Engine Co., St. Louis, Mo.
Yonng, E. R. & Sons, Titusville, Pa.

Compressors (Gasoline)

Curtis & Co. Mfg. Co. (Portable on Truck, etc., Gasoline Driven), St. Louis, Mo.

FAIRBANKS, MORSE & CO., Franklin & Monroe, Chicago, Ill. (See adv. index & branch offices, end of book)

INGERSOLL-RAND CO., 11 B'way, New York. (See adv. index and branch offices, end of book)

***Compressors (Steam)**

FAIRBANKS, MORSE & CO., Franklin & Monroe, Chicago, Ill. (See adv. index and branch offices, end of book)

Compressors (Water Jet Air)

Schutte & Koerting Co., 1251 N 12th, Phila., Pa.

Comptometers

(See Adding Machines)

***Concentrating Plants**

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

Concentrators (Ammonia)

Gas Machinery Co., Citizen's Bldg., Cleveland, Ohio.

Kerr-Murray Mfg. Co., Ft. Wayne, Ind.
Michigan Ammonia Works, Detroit, Mich.

Concentrators (Ore)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

American Concentrator Co., Joplin, Mo.

American Engineering & Reduction Co. ("Lane," Pneumatic), Claxton bldg, Cleveland, W. G., Cartersville, Mo. land, O.

Colorado Iron Works Co. (The "Bartlett"), Denver, Col.

Cresson, Geo. V. Co., Allegheny av W of 17th, Phila., Pa., & 141 Liberty, N. Y.

Davis, F. M. Iron Works Co., 8th & Larimer, Denver, Col.

Denver Engineering Works Co., Blake & 30th, Denver, Col.

Fritsch, Arthur, Foundry & Machine Co., 216 Gratiot, St. Louis, Mo.

Frue Vanning Machine Co., 45 B'way, New York

Hamilton, Wm. Mfg. Co., Peterboro, Ontario, Can.

Hendy, Joshua, Machine Works, San Francisco, Cal.

Knoxville Foundry & Machine Co. (for Low Crude Oil), Knoxville, Tenn.

Krogh Mfg. Co., 9 Stevenson, San Francisco, Cal.

Krom Machine Works ("Krom" Universal Dry Ore), 170 B'way, New York; Works, Jersey City, N. J.

Llewellyn Iron Works, Los Angeles, Cal.

McCabe, P. B. & Co. (New Standard), Los Angeles, Cal.

Mecklenburg Iron Works, Charlotte, N. C.

Mine & Smelter Supply Co. (The Wilfrey), Denver, Colo.

New Standard Concentrator Co., Los Angeles, Cal.

Portage Lake Foundry & Machinery Co., Hancock, Mich.

Power & Mining Machinery Co., 52 William, New York, Works, Cudahy, Wis.

Risdon Iron Works ("The Johnston"), San Francisco, Cal.

Salt Lake Engineering Works, Salt Lake City, Utah

SCHULE, F. H. CO., 27 Thames, New York. (See adv. index, end of book)

Stearns-Rogers Mfg. Co., 1718 California, Denver, Cal.

Traylor Engineering Co., 114 Liberty, New York. Works: Allentown, Pa.

Union Iron Works, San Francisco, Cal.

United Iron Works Co. (Comple Plants for Lead & Zinc Ores, etc.), Springfield, Mo.

United States Separator Co. ("Sweet's"), 81 Fulton, New York

Van Drake-Olsen Machine Works, 308 Mission, San Francisco, Cal.

*Concentrators (Overstrom)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

*Concentrators (Surface Heating)

BETHLEHEM FOUNDRY & MACHINE Co. ("Broome," for Chemical Works), Front, South Bethlehem, Pa., and 149 B'way, New York.

Concrete Binder

Buffalo Expanded Metal Co., D. S. Morgan bldg, Buffalo, N. Y.

Central Exp'd Metal Co., 541 Wood, Pittsburgh

Eastern Expanded Metal Co., 101 Tremont, Boston, Mass.

Expanded Metal Engineering Co., 225 5th av, New York

Expanded Metal Fireproofing Co., of Pittsburgh, 541 Wood, Pittsburgh, Pa.

INTERNATIONAL FENCE & FIRE-Proofing Co., Buttes av, Columbus, O. (See adv. below)

MERRITT & CO., 1024 Ridge av, Phila., Pa. (See adv. index, end of book)

Northwestern Expanded Metal Co., Old Colony bldg, Chicago, Ill.

Southern Expanded Metal Co., Colorado bldg, Washington, D. C.

St. Louis Expanded Metal & Fireproofing Co., Century bldg, St. Louis, Mo.

TRUSS METAL LATH CO. (Kuhne's System of Reinforced Concrete), 147 4th av, New York. (See adv. index, end of book)

Concrete Construction

(See Concrete Steel Construction Re-inforced.)

Concrete Curb (Steel Bound).

Steel Protected Concrete Co. ("The Wainwright"), Real Est. Trust bldg, Phila., Pa.

Concrete Floors & Arches

(See also Concrete Steel Construction, Reinforced; also Fireproofing, various systems)

American Concrete Steel Co., Union Bldg., New York, N. J.

Atlas Fire Proofing Co., 1 Madison av, New York

Blome, R. S. Co., Unity Bldg., Chicago, Ill.

COLONIAL CONCRETE STEEL CO., Lewis blk, Pittsburgh, Pa. (See adv. index, end of book)

Gollick & Smith, 1133 B'way, New York

INTERNATIONAL FENCE & FIRE-Proofing Co. ("International" System), Buttes av, Columbus, O. (See adv. below)

Klote, A. E. Fireproofing Co., 137th and Madison av, New York

MERRITT & CO., 1024 Ridge av, Phila., Pa. (See adv. index, end of book)

Monsted, A. & Co. ("Ransome" System), Milwaukee, Wis.

National Concrete Fire-Proofing Co., Citizens' Bldg., Cleveland, O.

Ransome Construction Co., Oakland, Cal.

Reinforced Cement Construction Co., 1 Madison av, New York

Scofield Company, House bldg, Pittsburgh, Pa.

Standard Concrete Steel Co., 100 B'way, N. Y.

Steel Concrete Construction Co. ("Ransome" System), Albany, N. Y.

Turner Construction Co. ("Ransome" System), 11 B'way, N. Y.

Union Construction & Water-Proofing Co., 1133 B'way, New York

Vulcanite Paving Co. ("Bromley" System), Land Title bldg, Phila., Pa.

Wight-Easton-Townsend Co., 554 W 45th, New York

Concrete Foundations

(See Bridge Foundations.)

Concrete Mixers

ANDERSON, W. H. TOOL & SUPPLY Co. ("Anderson" Portable on Wheels), 14 Macomb, Detroit, Mich. (See adv. index, end of book)

Ballou Mfg. Co. ("Demorest," "Little Giant"), Belding, Mich.

BARTLETT, C. O. & SNOW CO., French, Cleveland, O. (See adv. index, end of book)

BONNOT CO. (Automatic), Canton, O. (See adv. index, end of book)

Buckeye Engine & Foundry Co. ("Buckeye"), Joliet, Ill.

BUFFALO CONCRETE MIXER CO. (Automatic), 12 Builders Exchange, Buffalo, N. Y. (See adv. index, end of book)

BYERS, JNO. F., MACHINE CO., Ravenna, O. (See adv. index, end of book)

Caldwell, H. W. & Son Co., 17th & Western av, Chicago, Ill.

CARLIN'S, THOS. SONS CO., 1300 River av, Allegheny, Pa. (See adv. index, end of book)

Central Iron Works, Quincy, Ill.

Chambers Bros. Co., 52d bel Lancaster av, Phila., Pa.

CHICAGO BUILDERS SPECIALTIES Co., 138 Washington, Chicago, Ill. (See adv. index, end of book)

CHICAGO CONCRETE MACHINERY Co. ("Chicago"), 20 Canal, Chicago, Ill. (See adv. index, end of book)

Clough Concrete Construction Co. ("Clough" Self-Cleaning Batch Mixer), Quincy, Ill.

Clyde Iron Works ("Campbell" Ball Bearing Dumps Automatically), Duluth, Minn.

Cockburn Barrow & Machine Co., 240 11th Jersey City, N. J.

Columbus Foundry & Machine Co., Columbus, O.

Concrete Machine Co. ("Warner"), Bronson, Mich.

CONTRACTOR'S SUPPLY & EQUIPMENT Co. ("Smith's"), Old Colony bldg, Chicago, Ill. (See adv. index & branch offices, end of book)

Demorest, Milan J. ("Demorest"), Belding, Mich.

DOBBIE FOUNDRY & MACHINE CO., ("Fenn" Automatic), Main Office & Works, Niagara Falls, N. Y. (See adv. index & branch offices, end of book)

Drake Standard Machine Works, 298 W Jackson boul, Chicago, Ill.

Dunning, W. D. ("Broughton"), 300 Water, Syracuse, N. Y.

Dykema Co. ("Dykema"), Grand Rapids, Mich.

Eureka Machine Co. ("Eureka"), Jackson, Mich.

FAIRBANKS, MORSE & CO., Franklin & Monroe, Chicago, Ill. (See adv. index & branch offices, end of book)

Foot Mfg. Co. ("Foot"), Nunda, N. Y.

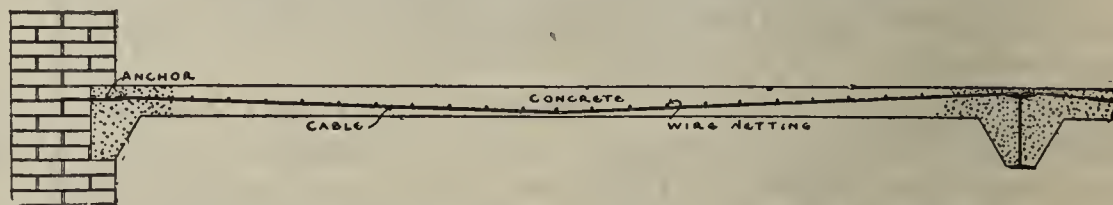
Hains Concrete Mixer Co. ("Hains" Automatic & "20th Century"), McGill bldg, Washington, D. C.

Hartwick Machinery Co. ("Scheffler"), Jackson, Mich.

INTERNATIONAL FENCE & FIRE-Proofing Co. ("American"), Buttes av, Columbus, O. (See adv. below)



Furnished in four sizes—on skids or trucks, with or without power. Mounted for end or side discharge.



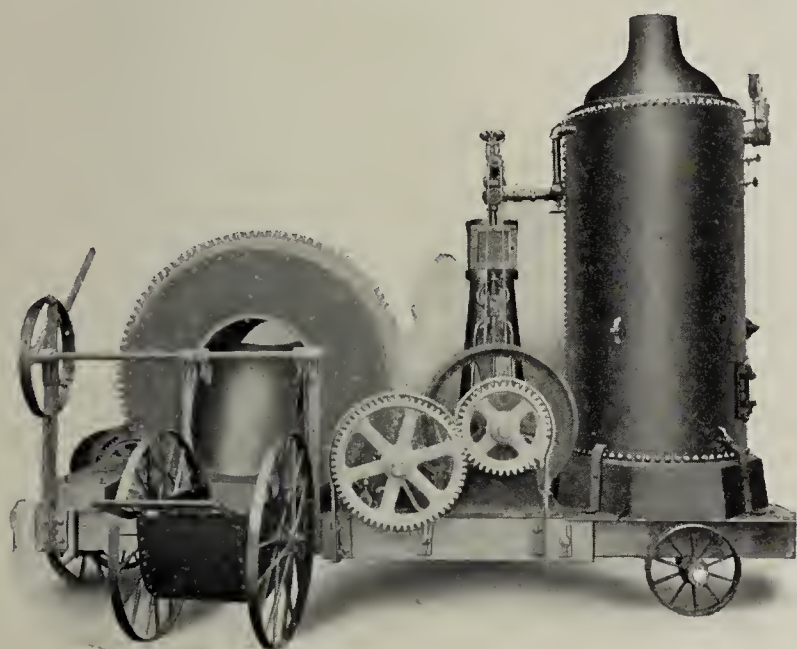
REINFORCING MATERIALS FOR LONG OR SHORT SPANS

The International F. & Fireproofing Company
BITTEL AVENUE, COLUMBUS, OHIO

Invented by a Contractor and Still Used by the Inventor

How often have you heard a contractor exclaim: "I wish the man who invented this machine had to use it himself for a while; then he might learn how to make it what it should be." It is an unfortunate fact that few tools or mechanical devices are used by their inventors. An inventor, as a rule, finds little satisfaction in working at anything but invention. He sucks the honey of pleasure from each new flower of his fancy, and flits away to another. But there are a few inventors who have been cast in a different mold. They invent

things for their own use, and, thereafter they use their own inventions in their daily work. The Ransome concrete mixer was invented by a contractor and is still used by him in his construction work. It is indeed, hard to say whether the name Ransome is better known because of the number of reinforced concrete structures built by the firm of Ransome & Smith, or because of the thousands of concrete mixers bearing the name plate of the Ransome Concrete Machinery Co. At any rate, the Ransome mixer has been made the simplest, strongest and



RANSOME MIXER WITH DISCHARGE CHUTE IN POSITION
TO LOAD RANSOME CONCRETE CART.

most rapid mixer of perfect concrete; and there are few contractors who will not attribute the result to the fact that the Ransome mixer was invented a generation ago by a contractor and is still used by the inventor.

Send for Ransome's Handbook of Concrete Machinery.

Ransome Concrete Machinery Co., Dunellen, N. J.

BRANCH OFFICES

Atlas Building, San Francisco, Cal.
Commonwealth Building, Philadelphia
286 St. James Street, Montreal
Candler Building, Atlanta, Ga.

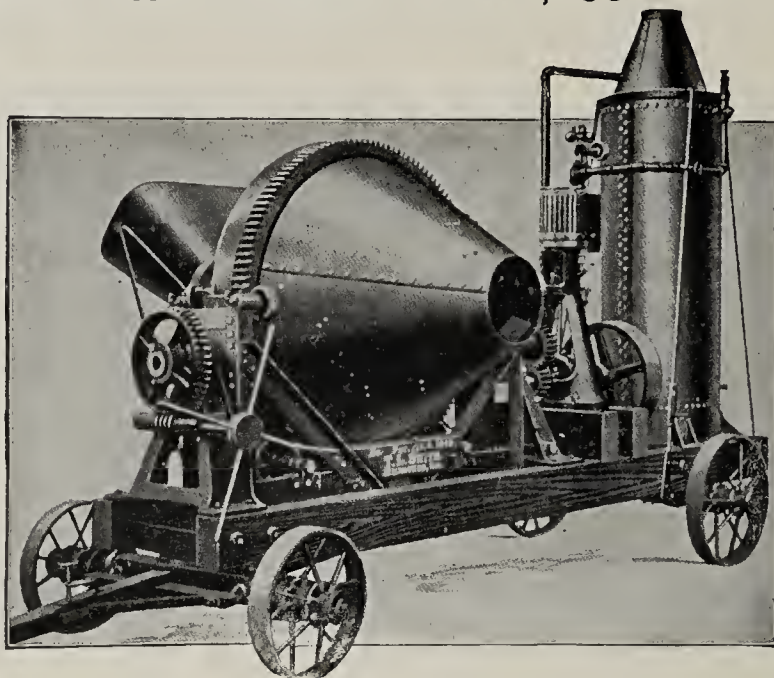
1336 Monadnock Building, Chicago
6 Beacon Street, Boston, Mass.

404 House Building, Pittsburg
11 and 1133 Broadway, New York
1125 Chemical Building, St. Louis
Dispatch Building, Columbus, Ohio

THE SMITH MIXER

SOME OF THE REASONS WHY 2,500 ARE IN USE.

*It saves time,
saves labor,
saves cement,
saves repairs,
saves money.*



*It mixes better,
mixes quicker,
mixes cheaper,
mixes anything,
mixes right.*

SEND FOR CATALOGUE.

Contractors Supply and Equipment Co.

MAIN OFFICE, CHICAGO, Old Colony Building.

NEW YORK, 170 Broadway.

ATLANTA,
1333 Candler Building

PITTSBURG,
204 Ferguson Bldg.,
JOHN L. KIRK.

ST. LOUIS,
621 Victoria bldg.

ST. PAUL,
201 German Am. Bank Bldg.

SAN FRANCISCO,
219 Spear St.

STEAM OUTFIT.



CHICAGO CONCRETE MIXER EFFICIENT SIMPLE DURABLE

Why dump the Mixed Concrete on the ground and then shovel into wheelbarrows, when you can dump direct into barrows with the **Chicago Mixer**? It is the only Batch Mixer that can dump into wheelbarrows successfully, saving time and expense. Your wheelmen take their load themselves. It does not require an extra man to dump the Mixer. The **Chicago Concrete Mixer** is lower on the charging side than other Mixers. It is also lighter. **ALL SIZES AND MOUNTINGS.** Send for our catalogue which explains why it is the best all round Mixer on the market.

Chicago Concrete Machinery Co., 20 CANAL STREET
CHICAGO, ILL.

LIST OF AGENTS

BEALL & CO., 321 Hawthorne Avenue, Portland, Ore. WESTERN MINING SUPPLY CO., Butte, Mont. L. YOUNG MACHINERY CO., 319 Howard, San Francisco, Cal. J. PEYTON HUNTER, 216 Commerce, Dallas, Tex. F. CODMAN FORD, 306 Barrone, New Orleans, La. THOS. COX & SONS, 322 Market, Little Rock, Arkansas. C. E. ROBIDOUX, 1012 Chemical Bldg., St. Louis, Mo. ROBINSON & CARY CO., St. Paul, Minn. G. B. ELLIOTT, 805 Majestic Bldg., Detroit, Mich. CLEVELAND BUILDERS' SUPPLY CO., Cleveland, O. INDIANA ROAD MACHINE CO., Fort Wayne, Ind. KEITH-SIMMONS CO., Nashville, Tenn. AMERICAN MFG. CO., 85 N. Forsyth, Atlanta, Ga. SHERMAN, BROWN, CLEMENTS CO., 78-80 Murray, New York. ALLEN P. ELY CO., 1106 Douglas, Omaha, Neb.



Buffalo Concrete Mixer

YOU SHOVEL MATERIAL IN

THE MACHINE DIVIDES EVERYTHING

RESULT:

Highest Grade of Concrete
Obtainable. All Uniform.

MANUFACTURED BY

Buffalo Concrete Mixer Co.

12 Builders' Exchange, BUFFALO, N. Y.

Interstate Engineering Co., Bedford, O.
 Iroquois Iron Works, Buffalo, N. Y.
 Jaeger Machine Co. ("Positive"), Columbus, O.
JEFFREY MFG. CO., Columbus, O.
 (See adv. index & branch offices, end of book)
 Kaltenbach & Grless ("K. G. Cube"), Bedford, O.
 Knickerbocker Co. ("Coltrin"), Jackson, Mich.
 Link Belt Co. ("Trump" Measuring & Mixing Machines), W. 39th cor. Stewart av., Chicago Ill., & 299 B'way, New York
 Mackay, A. D. & Co. ("Victor"), Chamber of Commerce, Chicago, Ill.
MUNICIPAL ENGINEERING & CONTRACTING CO., Railway Exchange Bldg., Chicago, Ill. (See adv. index & branch offices, end of book)
 National Concrete Machinery Co. ("National"), 188 Madison, Chicago, Ill.
 New York Concrete Machinery & Supply Co. (Eastern Agents for the "Chicago"), 78 Murray, New York
 Ohio Ceramic Engineering Co. ("McKelvey"), Cleveland, O.
 Parker Holst & Machine Co. ("Parker's"), 971 North Francisco av., Chicago, Ill.
 Phillips, Wm. H. Cement Stone Co. ("Phillips" Continuous), Columbus, O.
 Queen City Brick Machine Co., Traverse City, Mich.
RANSOME CONCRETE MACHINERY CO. (Hand Power & Gravity), Dunellen, N. J. (See adv. index, end of book)
SCHOLL, JULIAN & CO., 126 Liberty, New York. (See adv. index & branch offices, end of book)
SHAW, WILLIS (New & Second-Hand), 171 LaSalle, Chicago, Ill. (See adv. index, end of book)
 Smith, T. L. Co. ("Smith"), Milwaukee, Wis.
 Snell, R. Z. (Hand & Power), South Bend, Ind.
 South Bend Machine Mfg. Co. ("Standard"), South Bend, Ind.
 Standard Machine Co. ("Standard" Continuous), Kent, O.
STANDARD SAND & MACHINE CO. (Batch Mixers), 5151 St. Clair, Cleveland, O. (See adv. index, end of book)
 Suspended Concrete Mixer Co., Century Bldg., Denver, Col.
 Teal, Chas. A. (For Ready Mixed Mortar), 1361 Ridge av., Philadelphia, Pa.
 United Concrete Machinery Co. ("United," "Gilbreth," "Rotary," "Gotham," "Stanley," "Kershaw," "International," "Goodwin," "Midget" & "Larkin"), 34 W 26th, New York
 U. S. Concrete Machine Co. ("Grant"), Detroit, Mich.
WATSON, BENJ. (New & Second-Hand), 66 Beaver, New York. (See adv. index, end of book)
 Wilcox, W. H. Co. ("Foote"), Binghamton, N. Y.

*Concrete Mixers for Export

RANSOME CONCRETE MACHINERY CO., Dunellen, N. J. (See adv. index, end of book)

Concrete Reinforcing Materials

AMERICAN ROLLING MILL CO. ("Kuhne's" Truss & Clincher Lath), Middletown, O. (See adv. index, end of book)

AMERICAN SHEET & TIN PLATE CO. (Steel), Frick Bldg., Pittsburgh, Pa. (See adv. index & branch offices, end of book)

AMERICAN STEEL & WIRE CO. (Steel Reinforcement), The Rookery, Chicago, Ill. (See adv. on page following; branch offices, end of book)

American System of Reinforcing (Wire Fabrics & High Carbon Steel Bars), 189 La Salle, Chicago, Ill.

American Wire Fence Co. (Wire Fibre & High Carbon Rods, Round & Twisted Shapes), 189 LaSalle, Chicago, Ill.

AMSLER ENGINEERING CO. (Plain & Twisted Steel Bars), Diamond Bank bldg, Pittsburgh, Pa. (See adv. index & branch offices, end of book)

BERGER MFG CO., Canton, O. (See adv. index & branch offices, end of book)

BOSTWICK STEEL LATH CO., Niles, O. (See adv. index, end of book)

Brayton Engineering Co. ("Brayton" System), St. Paul, Minn.

BROWN HOISTING MACHINERY CO. ("Ferroinclave"), Cleveland, O. (See adv. index & branch offices, end of book)

Buffalo Steel Co. (High Carbon Steel Twisted Bars, Plain Bars, Rounds, Squares, Flats), Tonawanda, N. Y.

CHICAGO BUILDERS' SPECIALTIES CO. ("Twisted" Steel Bars & Expanded Metal), 138 Washington, Chicago, Ill. (See adv. index, end of book)

CLINTON WIRE CLOTH CO. (Electrically Welded Steel Wire Fabrics), Clinton, Mass. (See adv. index & branch offices, end of book)

Concrete Steel Engineering Co. ("Melan," "Thacher" & "Emperger" Steel Bars, etc.), 15 Park Row, New York

ELECTRIC WELDING MFG. CO. ("Cummings" System), 4 Smithfield, Pittsburgh, Pa. (See adv. below)

Expanded Metal & Corrugated Bar Co., Frisco Bldg., St. Louis, Mo.

Expanded Metal Engineering Co., 225 5th av, New York

Gabriel Concrete Reinforcement Co. ("Gabriel" Reinforcing Bar), Detroit, Mich.

GENERAL FIRE-PROOFING CO. (Steel & Steel Bars), Youngstown, O., & 156 5th av, New York. (See adv. index & branch offices, end of book)

IMPERIAL EXPANDED METAL CO. (Expanded Metal), Room 707, 265 La Salle, Chicago, Ill. (See adv. index, end of book)

Inland Steel Co. (High Carbon Steel Twisted Bars, Plain Bars, Rounds, Squares & Flats), First National Bank bldg, Chicago, Ill.

Works: Chicago Heights, Ill., & Indiana Harbor, Ind.

INTERNATIONAL FENCE & FIRE-proofing Co. (Steel Wire Fabric & Cables), Buttles av, Columbus, O. (See adv. on preceding page; branch offices, end of book)

Jones & Laughlin Steel Co. (Twisted Steel Bars), Pittsburgh, Pa.

Junlon Steel Screen Co. ("Corrugated Rods"), Jackson, Mich.

Majestic Wire Fence Co., Detroit, Mich.

RANSOME CONCRETE MACHINERY CO. (Twisted Steel), Dunellen, N. J. (See adv. index & branch offices, end of book)

Rogers-Shear Co. (Twisted, Plain & Corrugated Steel Bars), Warren, Pa.

St. Louis Expanded Metal & Fireproofing Co. (Corrugated Steel Bars), St. Louis, Mo.

STRUCTURAL CONCRETE CO. (Eastern Agents for "Cummings System"), 156 5th av, New York. (See adv. at bottom of this page)

TRUSS METAL LATH CO. ("Kuhne's") Truss & Clincher Lath), 147 4th av, New York. (See adv. index, end of book)

Turner Construction Co., 11 B'way, New York.

Union Steel Screen Co. (Ltd.) ("Union," Interlocking System), Albion, Mich.

Wight, W. N. & Co. (Lock Woven Steel Fabric), 160 5th av, New York

WISCONSIN IRON & WIRE WORKS (Wire Cloth, etc.), 190 E. Water, Milwaukee, Wis. (See adv. index, end of book)

***Concrete Reinforcing Material (Steel)**

AMERICAN SHEET & TIN PLATE CO., Frick bldg, Pittsburgh, Pa. (See adv. index, end of book)

Concrete Steel Construction (Reinforced)

Aberthaw Construction Co., 8 Beacon, Boston

Ajax Reinforced Concrete Co., 24 E 21st, N. Y.

Allison, John W. Co., Land Title Bldg., Philadelphia, Pa.

Altoona Concrete Construction & Supply Co., 1722 Margaret av., Altoona, Pa.

Ambursen Hydraulic Construction Co. (Dams, Bulkheads, etc.), 176 Federal, Boston, Mass.

American Chimney Co. ("Stieler" System Concrete Steel Chimneys), Ashland blk, Chicago, Ill.

American Column Co. (Columns), 252 Huron, Brooklyn, N. Y.

THE CUMMINGS SYSTEM

(PATENTED)

NO LOOSE RODS

Concrete Steel Reinforcement

Loop Truss for Beams and Girders.

Chair Lock for Connecting all Crossing Rods.

Spacing Bar for Hooped Columns.

Anchor Rods Guaranteed Against Slip.

ELECTRIC WELDING MANUFACTURING CO.

4 SMITHFIELD ST., PITTSBURG, PA., U. S. A.

Structural Concrete Co.

STEEL for REINFORCED CONCRETE CONSTRUCTION

156 FIFTH AVENUE

NEW YORK CITY

AMSLER ENGINEERING CO., Dia-
mond Bank bldg, Pittsburg, Pa. (See adv.
index & branch offices, end of book)
Armored Concrete Construction Co., 1210 Block,
Baltimore, Md.
Baltimore Ferro Concrete Co., Baltimore, Md.
Bates & Rogers Construction Co. (Heavy Bridge
Work, etc.), 355 Dearborn st., Chicago, Ill.
Bell Engineering & Construction Co., 220 B'way,
New York
Berlin Construction Co., Berlin, Conn., & 220
B'way, New York
Bick, J. N., The Nasby, Toledo, O.
Blome, R. S. Co., Unity bldg, Chicago, Ill.
Bos, Marius F., 1123 B'way, New York
BOSTWICK STEEL LATH CO., Niles,
O. (See adv. index, end of book)
Brayton Engineering Co. (Concrete Steel Struc-
tures), St. Paul, Minn.
BROWN HOISTING MACHINERY
Co. ("Ferroinclave"), Cleveland, O.; 23
Cortlandt, New York, & Pittsburg, Pa.
(See adv. index, end of book)
Brown, Jno. G. (Witherspoon bldg), Phila., Pa.
Buffalo Expanded Metal Co., D. S. Morgan
bldg, Buffalo, N. Y.
Bunting Construction Co., Vernon av & 14th,
Long Island City, N. Y.
Carey Construction Co., Electric bldg, Cleve-
land, O.
Central Construction Co., Louisville, Ky.
Central Expanded Metal Co., 541 Wood, Pitts-
burg, Pa.
Central States Bridge Co. (Heavy Concrete
Work), Indianapolis, Ind.
Clough Concrete Construction Co., Quincy, Ill.
Colladay & Leonard, Decatur, Ill.
Concrete Construction Co., Rock Island, Ill.
Concrete Improvement Co., 517 E 72d, New
York
Concrete Steel Co., 100 B'way, New York
Concrete Steel Engineering Co. (Concrete
Bridges, Floors, etc.), 15 Park Row, N. Y.
Concrete Steel & Tile Construction Co., Detroit,
Mich.
Continental Fireproofing Co., Birmingham, Ala.
Consolidated Engineering & Construction Co.,
140 Nassau, New York
Cowing Engineering Co., Citizens bldg, Cleve-
land, O.
Cranford & McNamee, 16 Court, Brooklyn, N. Y.

CUMMINGS STRUCTURAL CONCRETE
Co. ("Cummings" System), 4 Smithfield,
Pittsburg, Pa. (See adv. index, end of book)
Denholm & Co., 1917 Vine, Cincinnati, O.
Durolithic Co., Builders Exchange bldg, Buf-
falo, N. Y.
Eagle Concrete Construction Co., 331 E 16th
Eastern Expanded Metal Co., 101 Tremont,
Boston, Mass.
Eid, L. Concrete Steel Co., Central av between
Findlay & Liberty, Cincinnati, O.
Engineering Construction Co., Scranton, Pa.
Enterprise Contracting Co., Fulton bldg, Pitts-
burg, Pa.
Expanded Metal Engineering Co. (Reinforced),
225 5th av, New York
Expanded Metal Fireproofing Co. (Ltd.), Toron-
to, Canada
Expanded Metal Fireproofing Co. of Pittsburg,
541 Wood, Pittsburg, Pa.
Fell, Henry R. Co., Trenton, N. J.
Ferro-Concrete Construction Co., Cincinnati, O.
Ficklen & Strobaugh, 56 Pine, New York
Filbert Paving & Construction Co., Penna.
bldg, Phila., Pa.
Fitzgerald, H. W. & Co., Waterbury, Conn.
Fosburgh Co., 6 Beacon, Boston, Mass.
Gabriel Concrete Reinforcement Co. ("Gabriel"
System), Detroit, Mich.
Gabriel Concrete Steel Co., Penobscot bldg, De-
troit, Mich.
Geisel Construction Co. (Bridges, etc.), 620
Chestnut, St. Louis, Mo.
General Concrete Construction Co., Milwaukee,
Wis.
GENERAL FIRE-PROOFING CO.,
Youngstown, O., & 156 5th av, New York.
(See adv. index & branch offices, end of book)
Gollick & Smith, 1133 B'way, New York
Godwin Construction Co., 60 Wall, New York
Hendman-Henderson Co. (Concrete Steel Struc-
tures), 245 4th av, Pittsburg, Pa.
Heunebique Construction Co. (Armored Con-
crete), 1170 Broadway, N. Y.
Hinchman-Renton Fire Proofing Co., Denver,
Col.
Hoeffer & Co., 138 Wash'n, Chicago, Ill.
Horrabin, Wm., Iowa City, Ia.
Hunt Engineering Co., Iola, Kan.
INTERNATIONAL FENCE & FIRE
Proofing Co., Buttes av, Columbus, O. (See
adv. index, end of book)

Jameton, Jean, Construction Co., Benoist bldg,
St. Louis, Mo.
Kirk Paving Co., The, 1028 Arch, Philadelphia,
Pa.
McCartney, R. G., 112 E. 42d, New York
Maher & Baggs, Atlanta, Ga.
Mausfield Engineering Co., Bd. of Trade bldg,
Indianapolis, Ind.
Marsh Bridge Co. (Bridge Structures & Foun-
dations), Des Moines, Ia.
Masters & Mullen Construction Co., Rose bldg,
Cleveland, O.
Melber Co. (Inc.) ("Melber" Structural Ferro Ce-
ment), Second National Bank bldg, Pitts-
burg, Pa.
Menke, F. W., Stone & Lime Co., Quincy, Ill.
Meusch, L. J., 324 Dearborn, Chicago, Ill.
MERRITT & CO., 1024 Ridge av,
Phila, Pa. (See adv. index end of book)
Monolith Steel Co. (Inc.) ("Monolith" Steel
Bars), Washington, D. C.
Moore-Mansfield Construction Co. (Inc.), Bd. of
Trade bldg, Indianapolis, Ind.
Nash-Doniplain Co., 1 Madison av, New York,
N. Y.
National Bridge Co., Indianapolis, Ind.
National Concrete Co., Indianapolis, Ind.
National Concrete Construction Co., 140 W.
Main, Louisville, Ky.
National Concrete Fireproofing Co., Citizens'
bldg, Cleveland, Ohio
Nelson Construction Co., Chambersburg, Pa.
Neuchatel Asphalte Co. (Ltd.), 265 B'way, New
York
New Century Contracting Co., Madison av, New
York
Newton Engineering Co. ("Kahn" System), 106
Mason, Milwaukee, Wis.
Noel Construction Co., Baltimore, Md.
Nousted, A. & Co., Milwaukee, Wis.
Northwestern Expanded Metal Co., Old Colony
bldg, Chicago, Ill.
Pratt, Mason D., 18 N. 3d, Harrisburg, Pa.
Pringle, Joseph & Son, Kansas City, Mo.
Ransome & Smith Co. (Fire-Proof Factories), 11
Broadway, New York
Reid Turnbull Construction Co., Penna. bldg,
Phila., Pa.
Reinforced Cement Construction Co. ("De Val-
liere' System), 1 Madison av, New York
Rlggs, G. G., Waterbury, Conn.

AMERICAN WIRE ROPE.

☐ Hoisting rope of every description for elevators, mines, coal hoists, ore hoists, conveyors, derricks, ballast unloaders, etc. Towing hawsers, mooring lines, tiller rope and ships' rigging. Power transmission rope, street railway, mine haulage and surface haulage cables. Dredge and logging ropes, suspension bridge cables, cableway ropes and strands, guy strands, sash cord and clothes lines. Flat rope for hoisting purposes.

☐ Special rope of any description made to order.

☐ All the foregoing styles of rope are made of Swedish iron, crucible cast steel, plow steel, or galvanized iron or steel, according to requirements.

☐ Fittings and appliances for use in connection with wire rope.

☐ Large stock of all sizes carried in convenient warehouses, ready to ship immediately on telegraphic order, and in lengths from a foot to a thousand feet.

AMERICAN STEEL & WIRE CO.

CHICAGO

NEW YORK

WORCESTER

DENVER

SAN FRANCISCO

FLOORS



NOTE CONTINUOUS BOND

ROOFS

THE CLINTON FIREPROOFING SYSTEM

- ¶ We base our claims to superiority of the CLINTON FIREPROOFING SYSTEM—THE SYSTEM WITH THE CONTINUOUS BOND—over other systems on the fact that CLINTON WELDED WIRE, which forms the integral part of the system, establishes a continuous bond in the concrete and creates an actually monolithic construction.
- ¶ CLINTON WELDED WIRE, made from 6 to 10 gauge drawn steel wire, galvanized or plain, can be laid in lengths up to 300 feet, thereby forming a continuous bond for that distance. In a building 200 feet long, for instance, our reinforcing is secured at the front or rear of the building and carried through the entire distance without a break. Heavier gauge wire will be laid in lengths up to 60 feet, and locked or hooked to the next sheet where building requires more than one sheet in length.
- ¶ The desirability of this method, as contrasted with a system where lapped ends of steel fabric are necessary every few feet, is readily appreciated. For this reason, no entire collapse of any arch erected with CLINTON WELDED WIRE can occur unless the weight imposed on the arch is sufficient to strain and break all of the wires.
- ¶ In using the CLINTON FIREPROOFING SYSTEM, there is absolutely no chance for accident, owing to the continuous bond established in the concrete. The reinforcing is equally strong at all points, and the reinforcing members are exactly spaced 2, 3 or 4 inches apart, as the case may be. This spacing is exact; it is established by machinery and is not subject to the carelessness of employees.
- ¶ The CLINTON FIREPROOFING SYSTEM has been used in some of the most important structures on this continent, embracing government, municipal, railroad, manufacturing, hotel, library, school, warehouse, theatre, residence and other buildings.
- ¶ The CLINTON FIREPROOFING Catalog, which is a handbook on reinforced concrete fireproof construction, with particular reference to the application of the CLINTON FIREPROOFING SYSTEM, will be mailed free on application to any of our offices.

CLINTON WIRE CLOTH COMPANY, Clinton, Mass.

FIREPROOFING DEPARTMENTS

ALBERT OLIVER 1 Madison Avenue NEW YORK

WASHINGTON—Rosslyn Supply Co., Colorado Bldg. COLUMBUS—Kyle & Dugan, 282 East Broad St.
 PITTSBURGH—Houston Bros. Co., 32d St. and P.R.R. ST. LOUIS—Hunkins-Willis Lime & Cement Co.
 CHICAGO—Clinton Wire Cloth Co., 30-32 River St. SAN FRANCISCO—L. A. Norris, 835 Monadnock Bldg.
 SEATTLE—L. A. Norris, 909 Alaska Building.

CEILINGS

PARTITIONS

HENDRICKS' Commercial Register

Leads the Procession
of Publications in the
≡≡≡March of Trade≡≡≡

Among Architects, Builders, Contrac-
tors, Engineers, Purchasing Agents of
Railroads, Mills, Mines, Factories and
Supply Houses

Because it is the most complete Buyers'
Reference and the most profitable
Advertising Medium.

Use Hendricks' COMMERCIAL
REGISTER



Write for particulars of free classifications.

St. Louis Expanded Metal & Fireproofing Co.
(Corrugated Steel Bars), Chemical bldg, St.
Louis, Mo.

SCHILLINGER BROS. CO., Toledo, O.
(See adv. index, end of book)

Scofield Co., 15 Park row, New York

Shields & Bryan Concrete Cons. Co., Rock
Island, Ill.

Simpson Bros. Corporation, 166 Devonshire, Bos-
ton, Mass.

Sherwin, J. M., Webb City, Mo.
Smedley Construction Co., Stephen Girard bldg,
Phila., Pa.

Southern Construction Co., Continental bldg,
Baltimore, Md.

Southern Expanded Metal Co., Colorado bldg,
Washington, D. C.

Standard Concrete Construction Co., 184 La
Salle, Chicago, Ill.

Standard Concrete Steel Co., 100 B'way, N. Y.

Steel Concrete Construction Co., 100 State
Albany, N. Y.

Steel Protected Concrete Co., Real Estate
Trust Co. bldg, Phila., Pa.

Steel & Hollow Block Building & Construction
Co., 43 Eagle, Albany, N. Y., & 1123 B'way
New York

Stitzer, Jas. Hubert, Jr., Commonwealth Trust
bldg, Phila., Pa.

Strauss Bascul & Concrete Bridge Co. (Bridges
& Steel Structures), Fort Dearborn bldg,
Chicago, Ill.

STRUCTURAL CONCRETE CO., 156
5th av, New York. (See adv. index, end of
book)

Syracuse Bridge Co. (Bridges, Foundations,
etc.), Syracuse, N. Y.

Syracuse Railroad Construction Co. (Heavy
Concrete Work), Syracuse, N. Y.

Talbot, H. E. & Co. (Bridges, Bulldozers, etc.),
Dayton, O.

Topeka Bridge & Iron Co., Topeka, Kans.

TRUSS METAL LATH CO. (Kuhn's),
147 4th av, New York. (See adv. index,
end of book)

Trussed Concrete Steel Co., Home Office, Wayne
Co. Saving Bk. bldg, Detroit, Mich.

Tucker & Vinton (Steel Concrete Structures),
4 W 22d, New York

Turner Construction Co. ("Ransome" Rein-
forced Concrete Construction), 11 B'way,
New York

Turner-Forman Concrete Steel Co., Common-
wealth bldg, Phila., Pa.

Underwriters' Engineering & Construction Co.,
1170 B'way, New York

Universal Fireproof Cons. Co., 11 B'way, New
York

Weber Steel-Concrete Chimney Co. (Reinforced
Concrete Chimneys, etc.), 204 Dearborn,
Chicago, Ill.

Weatherford & Cary Bros. (Plain & Rein-
forced), Memphis, Tenn.

Western Expanded Metal & Fireproofing Co.,
San Francisco, Cal.

Wight-Easton-Townsend Co., 554 W 45th, New
York

Wight, W. N. & Co. (Lock Woven Steel Fab-
ric), 160 5th av, New York

Wilson, Jas. B. Concrete Co., Cincinnati, O.

Youngstown Construction Co. (F. H. Schmidt,
Pres.), 320 B'way, New York

Concrete Tools

(See Tools, Paving)

Condensers (Ammonia)

Carbondale Machine Co., Carbondale, Pa.
Epping-Carpenter Co., Pittsburg, Pa.

Harrisburg Pipe & Pipe Bending Co., Harris-
burg, Pa.

Wolf, Fred W. Co., 141 Rees, Chicago, Ill.
York Mfg. Co., Ltd., York, Pa.

Condensers (Barometric)

Alberger Condenser Co., 95 Liberty, New York
ALLIS-CHALMERS CO. ("Tomlin-
sou"). Milwaukee, Wis. See adv. index &
branch offices, end of book)

Heisler Mfg. Co., St. Marys, O.

Prescott, Fred M., Steam Pump Co., West Allis,
Wis.

Condensers (Electric)

Biddle, James G. ("Leeds"), 1114 Chestnut,
Philadelphia, Pa.

Bunnell, J. H. & Co., 20 Park pl, New York

Foot, Pierson & Co., 82 Fulton, New York

GENERAL ELECTRIC CO., Schenec-
tady, N. Y., & 44 Broad, N. Y. (See adv.
index & branch offices, end of book)

QUEEN & CO. (Inc.), n. w. e 8th &
Arch, Philadelphia, Pa. (See adv. index,
end of book)

Warner Electric Co., Muncie, Ind.

Western Electric Co., 259 S Clinton, Chicago,
Ill., & 57 Bethune, New York

Willyoung & Gibson Co., 40 W 13th, New York

Wotton Electric & Mfg. Co., Atlanta, Ga.

Condensers (Electric Telephone)

Biddle, James G. ("Leeds"), 1114 Chestnut,
Phila., Pa.

Kellogg Switchboard & Supply Co., 225 S Green,
Chicago, Ill.

Sterling Electric Co., Lafayette, Ind.

Stromberg-Carlson Telephone Mfg. Co., Roches-
ter, N. Y., & 70 W. Jackson boul., Chicago.

Swedish-American Telephone Co., 88 W Jack-
son boul., Chicago, Ill.

Wotton Electric & Mfg. Co., Atlanta, Ga.

Condensers (Gas)

(See also Gas Works Apparatus & Construction.)

Bartlett, Hayward & Co., Baltimore, Md.

Continental Iron Works, West & Cayler, Brook-
lyn, N. Y.

Isbell-Porter Co., 7 Nassau, New York

Kerr-Murray Mfg. Co., Fort Wayne, Ind.

Stacey Mfg. Co., Township av & C. C. C. & St.
L. R. R., Cincinnati, Ohio

Wood, R. D., & Co., 400 Chestnut, Phila., Pa.

Condensers (Ice Machine)

Goubert Mfg. Co., 90 West, New York

Condensers (Independent)

(See Condensers, Steam.)

Condensers (Jet)

(See Condensers, Steam.)

Condensers (Steam)

Alberger Condenser Co. ("Wainwright"), 95
Liberty, New York

ALLIS-CHALMERS CO. (Jet), Mil-
waukee, Wis. (See adv. index & branch of-
fices, end of book)

Barawanath, Wm. & Son, 52 W Division,
Chicago, Ill.

Barr Pump Co., 18th c Lehigh av., Phila., Pa.

Blake, W. H. Steam Pump Co. (Jet or Sur-
face), Hyde Park, Mass.

Buffalo Steam Pump Co. (Jet, Surface, etc.),
Buffalo, N. Y.

Bulkley, Henry W., 141 B'way, New York

Canton-Hughes Pump Co., Canton & Cleveland,
Cooper, C. & G. Co. (for large plants), Mt.
Vernon, O.

Cosmopolitan Company, 41 State, Chicago, Ill.

Davidson, M. T. (Surface & Jet), 43 Keap,
Brooklyn, N. Y., & 141 B'way, New York

Dean Bros. Steam Pump Works (Jet & Sur-
face), Indianapolis, Ind.

Epping-Carpenter Co., 41 st & A. V. Ry, Pitts-
burg, Pa.

Gynon-Evans Mfg. Co., 1509 Clearfield, Phila-
delphia, Pa.

FAIRBANKS, MORSE & CO., Frank-
lin & Monroe, Chicago, Ill. (See adv. in-
dex & branch offices, end of book)

Flynn Bros., Hoboken, N. J.

GOULDS MFG. CO., Seneca Falls, N.
Y. (See adv. index & branch offices, end of
book)

Great Lakes Engineering Works (Twin Vertical
Air Pump Condenser Combined, for Salt,
Sugar & Chemical Works), Rivard & De-
troit River, Detroit, Mich.

Heisler Mfg. Co. (Surface & Barometric), St.
Marys, O.

International Steam Pump Co. ("Blake-
Knowles"), 114 Liberty, N. Y.

Jennsville Iron Works Co., Hazelton, Pa.

Loew Mfg. Co., Cleveland, O.

McGowan, Jno. H., Co., Cincinnati, O.

McGowan, Jno. H. Co., Cincinnati, O.

MINNEAPOLIS STEEL & MACHIN-
erv Co. ("Twin City"), Minneapolis, Minn.
(See adv. index & branch offices, end of book)

National Foundry & Machine Co., Louisville, Ky.

National Steam Pump Co., Upper Sandusky, O.

Nordberg Mfg. Co. (Independent, Jet & Surface),
Milwaukee, Wis.

Platt Iron Works Co., Dayton, O., & 100 B'way,
New York

Prescott, Fred M., Steam Pump Co., West Allis,
Wis.

Schutte & Koerting Co., 1251 N 12th, Phila.,
Pa.

Scranton Steam Pump Co. (Jet Condensers &
Pumps), Scranton, Pa.

Southwark Foundry & Machine Co., Phila., Pa.

Stewart Heater Co., Buffalo, N. Y.

Thropp, Jno. E. Sons Co. (Surface), Trenton, N.
Triumph Ice Machine Co., Cincinnati, O.

Unique Engineering Co., 100 Hinsdale, Brook-
lyn, N. Y.

Warren Steam Pump Co., Warren, Mass.

Wheeler, C. H. Condenser & Pump Co., Lehigh
& N 18th, Phila., Pa.

Whitlock Coll Pipe Co., Hartford, Conn.

Wilkinson Mfg. Co., Bridgeport, Pa.

Wood, R. D., & Co., 400 Chestnut, Phila., Pa.

Condensers (Surface)

(See Condensers, Steam.)

TO OUR ADVERTISERS AND SUBSCRIBERS.

At any time during the year, that you do not find classified in our book the names and addresses of the Manufacturers of any ARTICLE you are in the market to PURCHASE, please write us, giving as complete particulars as possible, and we will always endeavor to render you PROMPT SERVICE in furnishing you the names and addresses of such Manufacturers and without any cost or obligation. This does not include Mailing Lists.

S. E. HENDRICKS CO.

Condensing Plants (Weiss Central)

Southwark Foundry & Machine Co., Passyunk Station, Philadelphia, Pa.

Conductor Pipe & Eave Trough Mfrs.

AMERICAN ROLLING MILL CO. ("Polygon"), Middletown, O. (See adv. index, end of book)

Berger Bros. Co., 237 Arch, Phila., Pa.

BERGER MFG. CO., Main Office & Works, Canton, O. (See adv. index & branch offices, end of book)

BOSTWICK STEEL LATH CO., Niles, O. (See adv. index, end of book)

Cambridge Roofing Co., Cambridge, O.

CANTON ART METAL CO., Canton, O. (See adv. index, end of book)

Chattanooga Roofing & Foundry Co., Chattanooga, Tenn.

Clark, Quien & Morse, Peoria, Ill.

Conklin Tin Plate & Metal Co., Atlanta & Savannah, Ga.

Dickelmann Mfg. Co., Forest, O.

Dieckmann, Ferdinand, 1180 Harrison ave., Cincinnati, O.

EDWARDS MFG. CO., Eggleston av., bet. 4th & 5th, Cincinnati, O. (See adv. index & branch offices, end of book)

ELLER MFG. CO., Canton, O. (See adv. index, end of book)

Excelsior Steel Furnace Co., 40 W. Monroe, Chicago, Ill.

Fisher, W. Frank B. (Double Bead), 23 W. College av., Springfield, O.

Garry Iron & Steel Co., Cleveland, O.

HEARTLEY MACHINE VARIETY Iron & Tool Works, Toledo, O. (See adv. index, end of book)

Hyndman Steel Roofing Co., 318 E. 2d, Cincinnati, O.

INDIANAPOLIS STEEL ROOFING & Corrugating Co., Indianapolis, Ind. (See adv. index, end of book)

Kanneberg Roofing & Ceiling Co., Canton, O.

Kansas City Roofing & Corrugating Co., Kansas City, Mo.

La Crosse Steel Roofing & Corrugating Co., La Crosse, Wis.

Lamb & Ritchie, Cambridgeport, Mass.

Learn & Brindle (conductor strainers) (the "Ideal" cut-off), Columbus, O.

Lupton's, David Sons, E. Allegheny av. & Tullip, Philadelphia, Pa.

MERCHANT & EVANS CO. (Inc.), 517 Arch, Phila., Pa. (See adv. index & branch offices, end of book)

MILWAUKEE CORRUGATING CO., Milwaukee, Wis. (See adv. index, end of book)

New York Iron Roofing & Corrugating Co., 1st & Wash'n, Jersey City, N. J.

Niles Iron & Steel Roofing Co., Niles, O.

Obdyke, Benjamin P., 237 Broad, Phila., Pa.

Penn Metal Ceiling & Roofing Co., 23d & Hamilton, Phila., Pa.

Porter Iron Roofing & Corrugating Co., 29 W. Front, Cincinnati, O.

St. John & Barquist, Des Moines, Ia.

SCAIFE, WM. B. & SONS CO., 221 1st av., Pittsburg, Pa. (See adv. index, end of book)

Schoedinger, F. O., 146 N. 3d, Columbus, O.

Scott Roofing & Mfg. Co., 234 E. Front, Cincinnati, O.

Souther, E. B. Iron Co., St. Louis, Mo.
Sykes Steel Roofing Co., 611 S. Morgan, Chicago, Ill.

Weyand, Henry Co. (Inc.), Waterbury, Conn.

Wheeling Corrugating Co., Wheeling, W. Va.

Whitacre, J. E. Mfg. Co., Rockford, Ill.

York Corrugating Co., York, Pa.

Conductor & Elbow Shoes

Dieckmann, Ferdinand ("Dieckmann's" Sheet Metal), 1184 Harrison av., Cincinnati, O.

*Conductors & Gutters (Cypress)

STEARNS, A. T. LUMBER CO., Neponset, Boston, Mass. (See adv. index, end of book)

Conduit Elbow Former

Wallace Supply Co., 56 5th av., Chicago, Ill.

Conduits

Alphaduct Co. ("Non-Metallic Flexible"), 136 Cator av., Jersey City, N. J.

American Circular Loom Co. (Flexible Interior), Chelsea, Mass., & 123 W. Jackson, Chicago, Ill.

American Clay Products Co., 138 Washington, Chicago, Ill.

American Conduit Co. (Bituminized Fibre, for Telephone & Electric Light Cables, etc.), Los Angeles, Cal., & 140 Nassau, New York

American Conduit Mfg. Co. (Electric Wire), 524 4th av., Pittsburg, Pa.; Works, New Kensington, Pa.

American Creosote Works (Creosoted for Underground Wires, etc.), Southpoint, La.

American Sewer Pipe Co., Bessemer bldg., Pittsburg, Pa.

American Vitrified Conduit Co. (Vitrified Salt Glazed, Interior & Underground), B'way & 23d, New York

Camp, H. B., Co. (Vitrified Clay), 170 B'way, N. Y., & 140 Dearborn, Chicago, Ill.

Chattanooga Sewer Pipe & Firebrick Co., Chattanooga, Tenn.

Clifton Mfg. Co., 65 Brookside av., J. P., Boston, Mass.

Cope, T. W., 3244 N. 15th, Phila., Pa.

Currie Cement Construction Co., 1250 Jefferson av., Detroit, Mich.

Cunningham Iron Co. (Wrought Iron), c. Summer, B & Fargo, Boston, Mass.

Davies & Thomas Co. (Cast Iron), Catsaqua, Pa.

Delaware Hard Fibre Co. (Fibre), Wilmington, Del.

Denny-Renton Clay & Coal Co. (Clay), Seattle, Wash.

Eppinger & Russell Co. ("Valentine" Creosoted, for Underground Wires, etc.), 69 Broad, New York

Federal Clay Mfg. Co. (Vitrified Clay), 170 B'way, New York

Fibre Conduit Co. (Fibre), Orangeburg, N. Y.

Field-Foulks Co. (Clay, all types), 29 B'way, New York

Franklin Railway Supply Co. ("McLaughlin," Flexible), Franklin, Pa.

GENERAL ELECTRIC CO., Schenectady, N. Y., & 44 Broad, New York. (See adv. index & branch offices, end of book)

Gherky, W. D., 334 N. Broad, Philadelphia, Pa.

Holland Co. ("Holland's" Supplanting Rubber Hose for Steam, Air, etc.), Ry. Exchange bldg., Chicago, Ill.

Interstate Conduit & Brick Co. (Vitrified), Scranton, Pa.

Johns, H. W.-Manville Co. (Underground Pipe Conduits), 100 William, New York

Kent Mfg. Co. (Steam & Air), Kent, O.

McRoy Clay Works (Vitrified Clay), Brazil, Ind.

Mark Mfg. Co. ("Navalite" Enameled Pipe for Electric Wires), Evanston, Ill.

Michigan Pipe Co. (Creosoted Wood), Bay City, Mich.

National Conduit & Cable Co., 41 Park Row, New York; The Rookery, Chicago, Ill., & Boston, Mass.

NATIONAL FIRE PROOFING CO. (Vitrified Glazed), Fulton bldg., Pittsburg, Pa. (See adv. index & branch offices, end of book)

National Metal Molding Co. ("Flexduct" for Interior Wiring), Pittsburg, Pa.

Osburn Flexible Conduit Co. ("Flexduct" Flexible), 15 Park row, New York

Pittsburg Sewer Pipe & Conduit Co. (Vitrified Salt Glazed), Pittsburg, Kans.

Potomac Terra Cotta Co. (Vitrified Salt Glazed Terra Cotta), Corcoran bldg., Washington, D. C.

Rittenhouse-Miller Co. ("Eureka" Flexible Waterproof Interior), N. 12th & Buttonwood, Phila., Pa.

Rochester Sewer Pipe Co. (Vitrified Clay), Rochester, N. Y.

Safety-Armorlite Conduit Co. (Iron Armored, Flexible Metallic Interior), Bailey-Farrell bldg., Pittsburg, Pa. Works: West Pittsburg, Pa.

SPRAGUE ELECTRIC CO. (Interior Iron Armored, Brass Armored, Flexible Steel & Unarmored), 527 W. 34th, New York. (See adv. below; branch offices, end of book)

Standard Sewer Pipe Co. (Vitrified Clay), Rochester, N. Y.

Standard Vitrified Conduit Co. (Vitrified Salt Glazed), 39 Cortlandt, N. Y.

Stevens, H., Sons' Co. (Clay for Tel. & Telegraph Lines), Macon, Ga.

Trussed Concrete Steel Co. (Reinforced Concrete). Home Office, Wayne County Savings Bank bldg., Detroit, Mich.

Walworth & Neville Mfg. Co. (Creosoted Pine), 42 Madison av., Chicago, Ill.

Western Construction & Paving Co. (Vitrified, Salt Glazed), Kansas City, Mo.

Williamsport Electrical Co., Williamsport, Pa.

Wyckoff Pine & Creosoting Co. (Creosoted for Underground Wires), Stamford, Conn., & Portsmouth, Va.

Cones (Blacksmiths')

Illinois Iron & Bolt Co., Carpentersville, Ill.

Cones (Friction)

(See Pulleys, Cone)

*Cones (Logging)

FLORY, S. MFG. CO., Bangor, Pa. (See adv. index, end of book)

LIDGERWOOD MFG. CO., 96 Liberty, New York, & Old Colony bldg., Chicago, Ill.

(See adv. index & branch offices, end of book)

INTERIOR CONDUIT

FOR ELECTRIC WIRING.

Complete Systems including Iron-armored and Flexible Steel Conduit, Flexible Steel-armored Conductors and Steel-armored Flexible Cord. For each type of Conduit, etc., there is a full line of junction boxes, fittings and tools.

SPRAGUE ELECTRIC COMPANY,

General Offices, 527 West 34th Street, NEW YORK CITY.

Connections (Closet)

Blasier & Co., M. E., Utica, N. Y.
Climax Specialty Co., Seneca Falls, N. Y.
Frost Mfg. Co., Kenosha, Wis.

Connections (Siamese)

Milwaukee Brass Mfg. Co. (With Automatic Valve, for Fire Sprinklers, Stand Pipes, Bath, etc.), Milwaukee, Wis.

Connections (Slip Joint)

Wolverine Brass Works, Grand Rapids, Mich.

Connectors (Electric Train)

Loeffelholz Co. ("Gibbs"), Milwaukee, Wis.

Connectors (Hose)

(See Couplings, Hose)

Connectors (Trailer)

Central Union Brass Co., 11th & Mullanphy, St. Louis, Mo.
Garton, W. R. Co., 118 W. Jackson Boul., Chicago, Ill.
Lang, J. Electric Co., 176 E Indiana, Chicago.
Ohio Brass Co., Mansfield, O.
Turner Brass Works, 66 Michigan, Chicago, Ill.

Connectors (Trolley Wire)

Eureka Tempered Copper Works, North East, Pa.
Johns, H. W.-Mauville Co., 100 William, New York.
Kislner-Ison Co., 466 Pioneer, Cincinnati, O.
Ohio Brass Co., Mansfield, O.
Ridion, Frank Co., 200 Summer, Boston, Mass.

Connectors (Wire, Etc.)

American Electric Fuse Co., 116 Nassau, New York
Ansonia Electrical Co., Ansonia, Conn.
Bridgeport Brass Co., Bridgeport, Conn.
Bunnell, J. H. & Co., 20 Park pl, New York
Chicago Die & Electric Co., 87 W. Lake, Chicago, Ill.
Clark Electric & Mfg. Co. (Copper, for High Tension Transmission), 135 B'way, New York
Emerson Electric Mfg. Co., 718 St. Charles, St. Louis, Mo.
Holtzer-Cabot Electric Co., Brookline, Mass.
Jones, J., & Sons, 62 Vesey, New York
McIntire, C., Co., Newark, N. J.
Manhattan Electric Supply Co., 17 Park pl, New York
Ostrander, W. R. & Co., 22 Dey, New York
Partrick, Carter & Wilkins, Phila., Pa.
Stuart-Howland Co., 281 Devonshire, Boston, Mass.
Trumbull Electric Mfg. Co., Plainville, Conn., & New York
Turner Brass Works, 66 Michigan, Chicago, Ill.
Wesco Supply Co., St. Louis, Mo.

Continuous Rolling Mills

(See Rolling Mill Plants, Continuous)

Contract Blanks (Architects' & Builders')**SOLTMANN, E. G.**

(Publisher of the A. I. A. Uniform Contracts & Uniform Sub-Contracts), 125 E 42d, New York. (See adv. index, end of book)

Contractors (Artificial Stone)

(See Cement & Concrete Pavements)

Contractors (Asphalt Paving)

(See also Cement & Concrete Pavements; also Contractors, General)

CALIFORNIA.

LOS ANGELES—Barber Asphalt Paving Co., Henne bldg
Densmore-Stabler Refining Co., 2474 E 9th
Fairchild-Gilmore-Wilton Co., Pacific Electric bldg
Scheerer & Co., 255 S Los Angeles
OAKLAND—Hillhouse, Reardon & Co.
Oakland Paving Co.
Piedmont Paving Co.
SAN FRANCISCO—Barber Asphalt Co., 1601 Gough
Barber Asphalt Paving Co. (Street, etc.), 7th & Hooper
California Asphalt Paving Co., 16th & Illinois
City Street Improvement Co., 17th & Harrison
Pioneer Asphaltum & Artificial Stone Co., 710 Montgomery
San Francisco Paving Co., 636 Market
Standard Roofing Co., 355 McAllister

COLORADO.

DENVER—Barber Asphalt Co., Quincy bldg
Colorado Paving Co. (Street, etc.), Quincy bldg
Western Realty & Paving Co. (Street, etc.), Opera House blk
PUEBLO—Standard Construction Co., Board of Trade bldg

CONNECTICUT.

BRIDGEPORT—Bullard, W. S., 629 Water
Burns & Co., 83 Fairfield & 480 Lindley
Silliman & Godfrey Co. (Street, etc.), 1119 Broad
BRISTOL—Pierson, Martin E.
HARTFORD—Hartford Paving & Construction Co., 703 Main
Watson & Jackson Corporation, 283 Sheldon
NAUGATUCK—Dunn, Jer. H., 224 Millville av
NEW HAVEN—City Point Concrete Co., 149 Greenwich av
Connecticut Concrete Co., 37 Church
Coyne Bros. Concrete Co., 250 Blatchley av
Humphrey, Jno., 69 Winchester av
Wartman, Robert, 22 Pond
WATERBURY—Byrne, C. R. A., N Main & City Mills la
Excelsior Concrete Co., 17 Baldwin av
McGrath & Son, 26 Magill

DISTRICT OF COLUMBIA.

WASHINGTON—Barber Asphalt Paving Co. (Street, etc.), Le Droit bldg
Brennan Construction Co., ft 31st, N W
Cranford Paving Co., 2620 E, N W
Colburn Paving Co., Bond bldg
Washington Asphalt Block & Tile Co., S Capitol & R, S E

GEORGIA.

ATLANTA—Murphy, C. P. & Son, 6 N Forsyth
Southern Roofing Co. (Asphalt Floors)

ILLINOIS.

CHICAGO—Barber Asphalt Paving Co. (Street, etc.), 108 LaSalle
Blome, R. S., 79 Dearborn
Consolidated Paving Co., 3214 S Halsted
Conway, R. F. Co. (Street, etc.), Chamber of Commerce bldg
Dolese Bros. Co., 78 LaSalle
Fulton, J. L. & Co., Monadnock bldg
Hoeffer & Co., Chamber of Commerce bldg
MacArthur Bros. Co. (Street, etc.), Fisher bldg
Parker-Washington Co., Chamber of Com.
Perkins, E. B., 663 Flournoy bldg
Sackley, Jas. A. Co., Chamber of Commerce bldg
Schillinger Bros. Co., 1181 N Seeley av
Simpson Construction Co. (Street, etc.), Chamber of Commerce bldg
Smith & Brown, 78 LaSalle
Wheeler, W. W. & Co., 154 W Washington
Witt, Aug., 145 La Salle
PEORIA—Janssen, G. & Sons, 230 Dechman av

INDIANA.

EVANSVILLE—Anchor Roofing & Paving Co.
FORT WAYNE—Fort Wayne Roofing & Paving Co.
INDIANAPOLIS—Barber Asphalt Paving Co. (Street, etc.), 607 Indiana Trust bldg

Capitol Paving & Construction Co., 618 Traction Terminal bldg
Granite Bituminous Paving Co., American Central Life bldg
Hoosier Construction Co., American Central
Smither, Henry C., 330 S Penn Life bldg
Symmes, H. H. Co., 45 Kentucky av
LAFAYETTE—Western Construction Co. (Street, etc.)

IOWA.

DUBUQUE—Key City Roofing Co.
SIOUX CITY—Houx, Frank T. Co.

KENTUCKY.

LOUISVILLE—American Staudard Asphalt Co. (Street, etc.), 1st & A
Barber Asphalt Paving Co. (Street, etc.), 347 5th
National Roofing & Supply Co., 140 Main
National Rock Asphalt Co., Columbia bldg
Southern Roofing & Paving Co., 1006 W Main

LOUISIANA.

NEW ORLEANS—Barber Asphalt Paving Co. (Street, etc.), 205 Chartres
Calongne & Sargent, Hiberuia Bank bldg
Catrano, Jno., 1022 Toulouse
Chevalier, A. Pavement Co. (Street, etc.), 523 St. Louis
Fath, Philip, 452 6th
Jahncke Navigation & Improvement Co. (Schillinger's), 816 Howard av
Louisiana Improvement Co., Hennen bldg
Sicllan Asphalt Paving & Construction Co., 312 Gravier
Southern Bilulithic Co., Hibernia Bank bldg

MARYLAND.

BALTIMORE—Filbert Paving & Construction Co. (Street, etc.), 1210 Block
Maryland Pavement Co. (Street, etc.), 6 E Lexington
Robertson, Jno. L., 6 E Lexington
Thormann, Jno. H. & Co., 12 McClellan

MASSACHUSETTS.

BOSTON—Barber Asphalt Paving Co. (Street, etc.), 161 Devonshire
Boston Asphalt Co. (Street, etc.), 54 Kilby
Carr & Andrews Corp., 101 Tremont
Gore, H. Co., 54 Kilby
Harris, Chas., 70 Kilby
Hind, Thos. J., 19 Milk
Jones & Meehan, 10 Tremont
Libby, A. A. Sous Co., 161 Devonshire
Murtfeldt, W. A. Co., 161 Devonshire
Simpson Bros. Corporation, 166 Devonshire
Taylor, E. R. Co., 164 Federal
Turner, H. G. & Co., 20 Central
Warren Bros. Co. (Street, etc.), 93 Federal
FALL RIVER—Archard, Richard J., 60 Murray
Burrows, Alexander, 1098 N Main
Willistou, Chas. H., 171 Pleasant
LOWELL—Smith, E. A. & A. T.
PITTSFIELD—Healey, Thos. J. (Floors, etc.)
TAUNTON—Black, Wm. R., 32 Union
WEST MEDFORD—Bragdon, Louis G.
WORCESTER—Carr, Geo. W. Co., 518 Main
Jeuks, H. L. & Son, 17 Freeland
Williams, A. C., 553 Main

MICHIGAN.

DETROIT—Barber Asphalt Paving Co. (Street, etc.), Hammond bldg
Central Bitulithic Paving Co. (Street, etc.), Majestic bldg
Unlon Paving Co., 420 Mich av
Western Rock Asphalt Paving & Roofing Co., Illinois & Dequindre

MINNESOTA.

MINNEAPOLIS—Barber Asphalt Paving Co. (Street, etc.)
Crittenden Roofing & Mfg. Co., 706 S 5th

MISSOURI.

KANSAS CITY—Barber Asphalt Paving Co. (Street, etc.), Colonial Security bldg
Boyd, R. J. & W. M. Construction Co., Edwards, W. M., Mass bldg
Parker-Washington Co., 2309 Penn av
ST. LOUIS—Barber Asphalt Paving Co. (Street, etc.), Holliand bldg
Fehlig, J. Frank, 3500 Hickory
Fruin-Bambrick Construction Co., Chemical bldg

Gilsonite Construction Co. (Street, etc.),
721 Wainwright bldg
Gilsonite Roofing & Paving Co., 211 N 7th
Grundt Alt Cons. Co., 220 Granite blk
Heman Construction Co., Fullerton bldg
Hill-O'Meara Construction Co., Chestnut c
7th
Rowland, Jos. H. Granitoid Cons. Co., 820
Chestnut
Ruecking, H., & Co., Marine av & Gascon-
ade
Skrainka Construction Co., Locust c 4th
Trinidad Asphalt Mfg. Co., 320 S 21st
Voigt, August, 1806 Dolman

NEBRASKA.

OMAHA—Barber Asphalt Paving Co. (Street,
Grant Paving Co. etc.), Bee bldg
Murphy, Hugh, Bee bldg.
National Roofing Co., Ware blk.

NEW HAMPSHIRE.

MANCHESTER—Robie Consolidated Concrete
Co., 936 Elm
NASHUA—Nashua Concrete Co.
Osgood Construction Co.
Tardif & Bellavance

NEW JERSEY.

CAMDEN—Ward, Aaron, 821 S 8th
HARRISON—Metropolitan Asphalt Paving Co.
JERSEY CITY—Commonwealth Roofing Co.,
Grove c 19th
Trinidad Bituminous Asphalt Co., 81 Pol-
lock av
Uvalde Asphalt Paving Co., 2 Greene
MAURER—Barber Asphalt Paving Co. (Street,
etc.)
NEWARK—Barber Asphalt Paving Co. (Street,
etc.), Halsey c Academy
Burnett Asphalt Co., 87 James
Commonwealth Roofing Co., 17 Division
Empire Asphalt Co. (Street), 763 Broad
Essex County Cons. Co., 128 Market
Hetzl, J. I. (Est. of) (Floors, etc.), 67
Maine
New York Roofing Co., 19 Division
Standard Paving Co., 45 Clinton
TRENTON—Fell, Henry R. Co.

NEW YORK.

ALBANY—Ackroyd, Jas. & Son, 10 James
Davenport, S. J. & Co., Tweddle bldg
Macnee & Rabe, 659 B'way
BUFFALO—Argentic Paving Co., 353 Lafayette
av
Barber Asphalt Paving Co. (Street, etc.),
880 Ellicott sq
Buffalo Ferrolithic Paving Co., Builders' Ex
Burgard, Henry P. (Street, etc.), Prudential
Climax Paving Co., 27 Fuller bldg
Cockburn Bros. & Co., 172 14th
Crescent Pavement, Erie Co. Bank bldg
German Rock Asphalt & Cement Co. (Street,
etc.), D. S. Morgan bldg
Gipp, L. H., 531 Ellicott sq
Wisdom Paving Co., 7th c Wilkeson
ELMIRA—Costello & Neagle
HASTINGS—Hastings Pavement Co.

NEW YORK CITY.

Borough of Brooklyn.

BROOKLYN—Cranford Co., 52 9th
Eastern Bermudez Asphalt Paving Co., 26
Interstate Paving Co., 44 Court Court
Mock, Isidor, 87 Debevoisse
Thomas, W. H. & Bro., 26 Court
Uvalde Asphalt Paving Co., 26 Court

Boroughs of Manhattan & Bronx

NEW YORK—Asphalt Construction Co., Madi-
son av & E 137th
Barber Asphalt Co. (Street, etc.), 114 Lib-
Boorman, T. Hugh, 32 B'way erty
Commonwealth Roofing Co. (Asphalt Floors
& Watertight Cellars), 17 Battery pl
Continental Asphalt Paving Co. (Street,
Denton & Co., 42 E 23d etc.), 42 B'way
Empire Paving & Constr'n Co., 1931 B'way
Fruiin-Bambrick Paving Co., 114 Liberty
Hastings Pavement Co., 25 Broad
Hilgers, Wm., Co., 202 W 101st
MacArthur Bros. Co., 11 Pine

Naughton & Co., 299 B'way
Neuchatel Asphalt Co. (Ltd.), 265 B'way
New T. Construction Co., 520 W 29th
†Sicilian Asphalt Paving Co. (Street, etc.),
41 Park row
Union Construction & Waterproofing Co.,
1133 B'way
Uvalde Asphalt Paving Co. (Street, etc.),
1 B'way
Vulcanite Paving Co., 114 Liberty
Warren Bros. Co. (Street, etc.), 253 B'way
Warner-Quinlan Asphalt Co. (Street, etc.),
42 B'way

Borough of Queens.

LONG ISLAND CITY—Barber Asphalt Co.
(Street, etc.), 6th & West av

(END OF NEW YORK CITY.)

PEEKSKILL—Smith, John, Jr.
ROCHESTER—Oliver, Horace T., 328 South av
Rochester Vulcanite Pavement Co., Alex-
ander c Erie Canal
Rock Asphalt Pavement Co., 279 South av
Warren Chemical & Mfg. Co., 49 West av
SYRACUSE—Artificial Paving Co., 1101 N
State
Ballard, Stephen G., 1528 S Salina
Central City Paving Co., Kirk bldg
Central City Roofing Co., Canal c Catharine
Jaynes, Jas., 609 Midland av
Schlosser, Geo., 520 Carbon
Syracuse Improvement Co., 438 S Salina
Talbot, Thos. & Son, 240 W Water
Warner-Quinlan Asphalt Co., 438 S Salina
Whittle, Thos. E., 405 Burnet av
TROY—Hannan, Geo., 306 3rd
Pomeroy & Catlin, 86 Congress
UTICA—Barber Asphalt Paving Co. (Street,
etc.), 131 Broad
Commonwealth Roofing Co., Clarendon bldg
WATERTOWN—Brennan & O'Brien
Jones, W. C., 22 Stone
YONKERS—Pawson, J. E., ft Wells av

OHIO.

AKRON—Acme Paving & Plaster Co.
CINCINNATI—Barber Asphalt Paving Co.
(Street, etc.), Traction bldg
Kuhl, Chas. Artificial Stone Co., 603 Read-
ing rd
Maescher, Chas. V. & Co., 619 Reading rd
CLEVELAND—Barber Asphalt Paving Co.
(Street, etc.), Soc. for Sav. bldg
Byerley & Sons, 2484 W 4th
Clements Bros. Construction Co., 123 Colo-
nial Arcade
Cleveland Trinidad Paving Co. (Street, etc.),
420 Lakeside av. N E
Roehle Bros., United Bank bldg
Vulcanite Paving Co., Soc. for Sav. bldg
Warren Chemical & Mfg. Co., Chamber of
Commerce bldg
COLUMBUS—Acme Paving Co., 403 W State
Capitol Asphalt Mastic Co., Columbus Sav.
& Trust bldg
Pugh, Andrew G., Dispatch bldg
COSHOCTON—Schrake, G. W.
DAYTON—Conley, Jas. E. & Co., 15 N St.
Clair
Dayton Asphalt Roofing & Paving Co.
TOLEDO—Lake Eric Asphalt Block Co. (Block
& Tile)
Leith, John J., 2225 Franklin av
McMahon, Wm. J., 321 Floyd
SCHILLINGER BROS. CO., 215 City
Park av. (See adv. index, end of book)
YOUNGSTOWN—Chambers, J. B.
Davis & Caldwell
Joyce, M. J.

OKLAHOMA TERRITORY.

OKLAHOMA—Barber Asphalt Paving Co.
(Street, etc.), Box 966

OREGON.

PORTLAND—Marshall Bros., Chamber of Com-
merce bldg
Trinidad Asphalt Paving Co., Worcester blk
Warren Const. Co., Oregonian bldg

PENNSYLVANIA.

ALLEGHENY—Van Horn, A. R., 532 W Jef-
ferson
ERIE—Mayer Bros.
HARRISBURG—Galbraith, B. G.
LANCASTER—Fritchey, J. U. & Son

PHILADELPHIA—Asphalt & Concrete Paving
Co., 227 S 9th
Barber Asphalt Paving Co. (Street, etc.),
Land Title bldg
Block & Tile Paving Co., Harrison bldg
Brennan, Frank, 1409 Ritner
Carter Paving Co., 906 Girard av
Chambers, Robert & Son, 1022 York
Clymer, Jacob L. (Floors, etc.), 1900 N
Marshall
Columbia Artificial Stone Paving Co., 205
N 20th
Drehmann Paving Co., 2631 Parrish
Eastwick & Geshwind, 12th & Filbert
Filbert Paving & Construction Co., 15th &
Chestnut
Galbraith Paving Co., 3421 N 12th
Gerhardt, Frederick, German-American bldg
Germanic Artificial Stone Pavement Co.,
1409 Ritner
Granitoid Paving Co., Heed bldg
Krause, William, 1640 N Marshall
Krause, Wm. & Son, 1621 N 5th
Lehigh Paving Co., 708 Cambria
McKee, Henry, 2522 Lehigh av
Murphy, Howard M., 3016 Oxford
Petrific Paving & Roofing Co., 3345 Market
Quaker City Paving Co., 45 N 13th
Schwartz, Jacob, 2308 N 27th
Shields, W. S. P. Co., Witherspoon bldg
Smedley Construction Co., Stephen Girard
bldg
Steel Protected Concrete Co., Real Estate
Trust Co. bldg
Vulcanite Paving Co., Land Title bldg
Wallace, R. Bruce & Co., Drexel bldg
PITTSBURG—Booth & Flynn, 1942 Forbes
Concrete Construction Co., Peebles & Abbott
Globe Asphalt Co. ("Obispo Brand"), Bake-
well bldg
Peabody & Filbert Co., 6812 Hamilton av
Wadsworth Stone & Paving Co., Bessemer
bldg
SCRANTON—Barber Asphalt Paving Co.
Dunn, Benjamin F. (Street, etc.)

RHODE ISLAND.

PROVIDENCE—Moore, J. W. Co., 143 Allens av
Moore, J. W. Co., 143 Allens av
Narragansett Improvement Co. (Street, etc.),
122 Public
Rhode Island Concrete Co., 3 Custom House
Smith Concrete Co., 19 Ridge st
U. S. Concrete & Roofing Co., Banigan bldg
WESTERLY—Westerly Concrete Co.

TENNESSEE.

CHATTANOOGA—Chattanooga Roofing & Foun-
dry Co., 720 E Montgomery av
MEMPHIS—Bartholomew Roofing Co., 41 2d
Lee Bros., 292 Front
Memphis Asphalt & Paving Co. (Street,
etc.)
Miller, Chas. R., Paving Co., 16 Madison
Miller Paving Co., 20 Madison
NASHVILLE—Nashville Roofing & Paving Co.

TEXAS.

CLINE—Uvalde Asphalt Co.
DALLAS—Barber Asphalt Paving Co. (Street,
Watson, Alex. etc.)
GALVESTON—Elder, L. B., 212 Tremont
Henchman, Geo. H., Mercantile & Roofing
Co., 2410 Mechanic

UTAH.

OGDEN—Party, Jos., 1743 W. Wash'n av
SALT LAKE CITY—Barber Asphalt Paving
Co. (Street, etc.)

VERMONT.

BURLINGTON—Moore, Eugene F., 63 Greene

VIRGINIA.

NEWPORT NEWS—Via, Geo. E.
Wallace, A. D.
NORFOLK—Addenbrook's, J. N. Sons
Cement Construction Co.
Southern Paving & Construction Co.
PORTSMOUTH—Virginia Artificial Stone
Works
RICHMOND—Armitage Mfg. Co., 3200 Wil-
Veitch, W. P., 214 S 6th hamsburg av
VIRGINIA—Carolina Construction Co.

WASHINGTON.

SEATTLE—Barber Asphalt Paving Co. (Street, etc.), Mutual Life bldg
Barnes & Carkeek, 427 E Denny way
Stanley, Wm. & Co., Burke bldg
SPOKANE—Barber Asphalt Paving Co. (Street, etc.)

WEST VIRGINIA.

WHEELING—McGinley & Holmes

WISCONSIN.

LA CROSSE—Marden, J. H. Cement & Paving Co.
MILWAUKEE—Badger Cement Sidewalk Co., University bldg
City Construction Co., Hatbaway bldg
Milwaukee Sidewalk Co., Matthews bldg
Monstead, A. & Co., Pabst bldg
Western Portland Cement Co., Plankinton Bank bldg
Winding & Gezelschap, Pabst bldg
OSHKOSH—Fluor, Caspar
SHEBOYGAN—Ackerman, Christ

Contractors (Building)

(See Builders, Contracting; also Contractors, General)

Contractors (Dredging)**ALABAMA.**

MOBILE—Alabama Dredging & Jetty Co.
Moore, R. & Co.
National Dredging Co.

CALIFORNIA.

OAKLAND—Veitch, W. T. & Bro.
West Coast Dredging Co.
SAN FRANCISCO—American Dredging Co., 6 East
Atlantic Gulf & Pacific Co., Monadnock bldg
Bay & River Dredging Co., 604 Mission
Healy, Tibbits Construction Co., Mission Street dock
Pacific Coast Dredging & Reclamation Co., Perry, R. A., Visitation Bay 6 East
San Francisco Bridge Co., Monadnock bldg

CONNECTICUT.

NEW LONDON—Scott, Thomas A. Co.

DELAWARE.

WILMINGTON—National Dredging Co., 6 W
Standard Dredging Co. 9th
Wilmington Dredging Co.

DISTRICT OF COLUMBIA.

WASHINGTON—Columbia National Sand Dredging Co., 3036 K, N W
Washington Dredging Co., 13th c G, N W

GEORGIA.

SAVANNAH—Cunningham, W., Sorrel bldg
Georgia Dredging Co., Ger. Bank bldg
Ross, P. Sanford, 16 Bryan E

ILLINOIS.

CHAMPAIGN—Pollard, Goff & Co. (Inc.)
CHICAGO—Fitzsimmons & Connell Co., 131 LaSalle
Great Lakes Dredge & Dock Co., Chamber of Commerce bldg
STEWART, JAS. & CO., Fisher bldg

INDIANA.

MADISON—Kirk, Wm.

LOUISIANA.

NEW ORLEANS—Jabneke Navigation & Improvement Co., 816 Howard av
STEWART, JAS. & CO., Hibernia Bank bldg

MAINE.

PORTLAND—Eastern Dredging Co., 50 Exchange

MARYLAND.

BALTIMORE—Maryland Dredging & Contracting Co., Fidelity bldg
Potomac Dredging Co., Calvert bldg
Risley Co., Busb c Severn
Sanford & Brooks, 15 South

MASSACHUSETTS.

BOSTON—Bay State Dredging Co., 19 High
Columbian Dredging Co., 87 Border
Eastern Dredging Co., 247 Atlantic av
New England Dredging Co., 185 Summer
Townsend, Geo. W., 202 Atlantic av

MICHIGAN.

BAY CITY—Bay City Dredging Co.
BENTON HARBOR—Bakeman & Mills
DETROIT—Carklin, Stickney & Cram, W. S. Rouge River
Detroit Dredging Co., 26 Lafayette av
Griffin, M. J., 104 Lafferty pl
Schweikart Dredging Co., 1922 Jefferson av
HOUGHTON—Pryor, Jas., Sr.
MANISTEE—Smith, Jno.
MIDLAND—Reed, Albert
PORT HURON—Muir-O'Sullivan Dredge & Dock Co.
RIVER ROUGE—Carklin, Stickney & Cram
SAGINAW—Hubbell, H. W. & Co., 700 N Hamilton
SAULT SAINT MARIE—Edwards Bros.
Great Lakes Dredge & Dock Co.
Hickler Bros.

MINNESOTA.

DULUTH—Duluth-Superior Dredging Co., ft 6th av, W
Great Lakes Dredge & Dock Co.
Lake Superior Contracting & Dredging Co.
ST. PAUL—La Crosse Dredging Co.
Northern Dredge Co.
Zenith Dredge Co.

MISSOURI.

ST. LOUIS—Fruin-Bambrick Construction Co., Chemical bldg
STEWART, JAS. & CO., Lincoln Trust bldg

NEW JERSEY.

BAYONNE—Packard, R. G. Co., ft 28th
CAMDEN—Am. Dredging Co., ft. Pine
Bowers Hydraulic Dredging Co. (Inc.), 104 Market
JERSEY CITY—McSpirit, Joseph A., 118 Wayne
Potter, H. F., 2 Exchange pl
Ross, P. Sanford, 277 Wash'n
Stillman, F. M. Co., 26 Exchange pl
Taylor Dredging Co., ft. Communipaw av
PATERSON—Lee, John R., 2d Nat'l Bk bldg

NEW YORK.

ALBANY—Davis, J. K. & Son, 47 Westerlo
Raderson, Jno. P., 755 Madison av
BUFFALO—Buffalo Dredging Co., D. S. Morgan bldg
Getz, R. J., D. S. Morgan bldg
Lake Erie Dredging Co., D. S. Morgan bldg
Sullivan, M., 721 W Ferry

NEW YORK CITY.**Borough of Brooklyn.**

BROOKLYN—Beard, W. H. Dredging Co., Long Dock, Erie Basin
Gabagan, Walter H., 189 Montague

Boroughs of Manhattan & Bronx

NEW YORK—Atlantic Dredging Co., 15 Whitehall
Atlantic Gulf & Pacific Co., Park Row bldg
Bates, Lindon W., 111 B'way
Beard, W. H. Dredging Co., 21 State
Brown & Fleming Contracting Co., 129 Broad
Columbia Dredging Co., 68 Broad
Du Bois Bros. Dredging Co., 19 Whitehall
Du Bois, Henry, Sons' Co., 17 State

Empire Eng. Corporation, 111 B'way
Hughes Bros. & Bangs, 5 Nassau
International Contracting Co., 17 Battery pl
Metropolitan Dredging Co., 15 Broad
Monks, John & Sons, 82 Beaver
Morris & Cumings Dredging Co., 17 State
Packard, R. G. Co., 130 Pearl
Rockland Construction Co., 8 Bridge
Seely-Taylor Co., 78 Broad
Spearin & Preston, 17 Battery pl
Steers, Henry (Inc.), 17 Battery pl
STEWART, JAS. & CO., North American Trust bldg

Taylor Dredging Co., 21 State
(END OF NEW YORK CITY.)

ROCHESTER—Brayer & Albaugh, 27 E Main
SYRACUSE—Driscoll, A. C., 112 E Jefferson

OHIO.

CINCINNATI—Sherdian-Kirk Contract Co., Mer. Lib. bldg
CLEVELAND—Cleveland Dredge & Dock Co., Williamson bldg
Federal Contracting Co., Hickox bldg
Great Lakes Dredge & Dock Co.
Hughes Bros. & Bangs, Hickox bldg
Standard Contracting Co., Wade bldg
Strong, C. H. & Son, Cuyaboga bldg
DAYTON—D'Arcy, Wm. A., 148 S Eagle
TOLEDO—Bodette, Edward, 568 Prouty av
Breyman, Geo. H. & Bros., Marine bldg
Great Lakes Dredge & Dock Co.
Manor, Jos. J., 1318 Ewing
Thacher, A. Q. & Co., Marine bldg

OREGON.

PORTLAND—Columbia Digger Co., Sberlock bldg
Northwestern Wrecking & Dredging Co., Commercial blk

PENNSYLVANIA.

CHESTER—Williams, Capt. Jno.
PHILADELPHIA—American Dredging Co., Mariner & Merchant bldg
British-American Dredging Co., Bullitt bldg
Drake & Stratton Co., West End Tr. bldg
Grim, John L., Girard bldg
Houston-Rickards Dredging Co., Girard bldg
National Dredging & Lighterage Co., Arcade bldg
River & Harbor Improvement Co., Mariner & Merchant bldg
PITTSBURG—Davison, J. K. & Bro., 42d & Davison
Drake & Stratton Co., Farmers' B'k bldg
Enterprise Contracting Co., Fulton bldg
McDonald, C. I. & Co., House bldg
Monongahela & Western Dredging Co., Con-Neel, H. L. House bldg estoga bldg
Pittsburg Dredging & Construction Co., Hartje bldg
STEWART, JAS. & CO., Westinghouse bldg

RHODE ISLAND.

PROVIDENCE—Dailey, J. A. & Son, 191 Transit
Packard, J. S. Dredging Co., 425 Angell
Sbaw, Fred'k E., 75 Westminster

SOUTH CAROLINA.

COLUMBIA—Stewart Stone Co.

TENNESSEE.

MEMPHIS—Kavanaugh Sand Co., 20 Madison

TEXAS.

GALVESTON—Bowers Southern Dredging Co.
Clarke, Charles & Co.

VIRGINIA.

BERKLEY—French, William H.
NORFOLK—Atlantic, Gulf & Pacific Co.
Coastwise Dredging Co.
Norfolk Dredging Co., 217 Water

WASHINGTON.

SEATTLE—International Contract Co. New York blk
Puget Sound Bridge & Dredging Co. (Hydraulic), 95 Yesler Way

WISCONSIN.

MADISON—La Crosse Dredging Co.
 MANITOWOC—Keith, J. H. & Co.
 MARINETTE—Brown Dredge Co.
 MILWAUKEE—Hatbaway, J. E. & Co., Canal & 1st av
 Starke, C. H. Dredge & Dock Co., Canal & Menomonee
 OCONOMOWOC—Johnson & Tweeden
 SUPERIOR—Lake Superior Contracting & Schmidt Bros. Dredging Co.
 Whitney Bros.

Contractors (Electric Railway)

(See also Contractors, Railroad.)

CALIFORNIA.

SAN FRANCISCO—City Street Improvement Co., Mills bldg

CONNECTICUT.

NEW HAVEN—Blakeslee, C. W. & Sons, 58 Waverly
 WATERBURY—New England Engineering Co.

DISTRICT OF COLUMBIA.

WASHINGTON—Saxton, E., 841 Bladensburg road

ILLINOIS.

CHICAGO—Badt, F. B. & Co., Monadnock blk
 Gates, J. Holt, Monadnock blk
 Kohler Brothers (Engineers & Contractors, Complete Power & Lighting Equipment), Fisher bldg
 Myers, L. E. Co., Monadnock blk
 North Amer. Ry. Construction Co., Monadnock blk
 Phoenix Construction Co., 908 Fisher bldg
 Summers, L. L. & Co. (Power & Lighting Equipment), First National Bank bldg
WESTINGHOUSE ELECTRIC & Mfg. Co. (Electric Power Installation). (See adv. index, end of book)
 Wise, Cliff, 1406 Manhattan bldg

INDIANA.

INDIANAPOLIS—Moore-Mansfield Construction Co., Board of Trade bldg

MARYLAND.

BALTIMORE—Bullock Electric Mfg. Co., 303 Courtland
 Newhall & Co. (Inc.), 13 E Read
 Southern Electric Co., 423 N Calvert
WESTINGHOUSE ELECTRIC & Mfg. Co. (Electric Power Installation). (See adv. index, end of book)

MASSACHUSETTS.

BOSTON—Boston Industrial Co. (Inc.), 178 Gore, H. Co., 54 Kilby Devonsbire
 Kendall, M. K. & Co., 32 Oliver
 Sargent, Conant & Co., Equitable bldg
 Turner, H. G. & Co., 20 Central
WESTINGHOUSE ELECTRIC & Mfg. Co. (Electric Power Installation). (See adv. index, end of book)
 FITCHBURG—Coolidge, M. A.
 GREENFIELD—Bay State Construction Co.
 SPRINGFIELD—Ley, Fred T. & Co.
 WORCESTER—Page Electric Co., 24 Pearl
 Tylee, W. H. & Co.

MICHIGAN.

DETROIT—Central Cons. Co., Majestic bldg
 Detroit & Toledo Construction Co., 28 Griffin, M. J., 104 Lafferty pl Cadillac sq
 Stirling, J. R. & Co., Bubl blk
WESTINGHOUSE ELECTRIC & Mfg. Co. (Electric Power Installation). (See adv. index, end of book)

MINNESOTA.

MINNEAPOLIS—**WESTINGHOUSE** Electric & Mfg. Co. (Electric Power Installation). (See adv. index, end of book)

NEW JERSEY.

CAMDEN—Sweeten, B. F., & Son.
 NEWARK—Cullen, W. A. (Track & Overhead Construction), 262 Park av
 ORANGE—Wright, Lindsley, 27 Cone
 PATERSON—Lee, John R.
 PERTH AMBOY—Electric Railway Construction Co.

NEW YORK.

BUFFALO—Chapman, A. F. & Co. (Track & Overhead Construction), Prudential bldg
 Little F. P., Electrical Co., 208 Main
WESTINGHOUSE ELECTRIC & Mfg. Co. (Electric Power Installation). (See adv. index, end of book)

NEW YORK CITY.**Borough of Brooklyn.**

BROOKLYN—Vreeland, J. H., Electric Construction Co., 3 Wallabout Market

Boroughs of Manhattan & Bronx

NEW YORK—American Railway Construction Co., 42 B'way
 Beacon Contracting & Construction Co. (Light & Power Plants), 280 B'way
 Cobo, H. B. & Co., 116 Liberty
 Commercial Construction Co., 114 E 28th
 Degnon Contracting Co., 15 Park Row
 Hatzel & Buebler, 571 5th av
 Hildreth & Co., 50 B'way
 Muralt & Co., 114 Liberty
 Sanderson & Porter (Power & Lighting Equipment, etc.), 52 William
 Serrell, L. W. & Son, 87 Nassau
 United Engineering & Contracting Co., 32 E 33d
WESTINGHOUSE ELECTRIC & Mfg. Co. (Electric Power Installation). (See adv. index, end of book)
 White, J. G., & Co. (Power & Lighting Equipment), 43 Exchange pl
(END OF NEW YORK CITY.)

SYRACUSE—Archbold-Brady Co. (Power, Lighting & Equipment)
WESTINGHOUSE ELECTRIC & Mfg. Co. (Electric Power Installation). (See adv. index, end of book)

OHIO.

AKRON—Cleveland Construction Co.
 CANAL DOVER—Dover Construction Co.
 CINCINNATI—Creaghead Eng. Co., 313 Walnut
 Gest, G. M., Union Trust bldg
 CLEVELAND—Callinan Construction Co., Wilhamson bldg
 Cleveland Construction Co., Citizens bldg
 COLUMBUS—Capitol Construction Corporation, Ruggery bldg
 Luchtenberg, Wm. H. & Co., Wyandotte
 ELYRIA—Ohio Engineering Co. bldg

PENNSYLVANIA.

PHILADELPHIA—Brubaker, G. S. W. & Co., Witherspoon bldg
 Delaware River & Atlantic Construction Co., Penna bldg
 MacAfee Co. (Inc.) (Engineer & Contractor), Harrison bldg
 Nusbaum, Elias & Co., 1720 Sansom
 Register, A. L. & Co., Fidelity Mutual Life bldg
 Sims, Chas. A. & Co., Harrison bldg
 Smethurst & Allen, North American bldg
 Tennis Construction Co., Stephen Girard
 Union Electric Construction Co. (Underground System) Bourse bldg
WESTINGHOUSE ELECTRIC & Mfg. Co. (Electric Power Installation). (See adv. index, end of book)
 Wharton, Wm., Jr., & Co. (Inc.), S 25th & Washington av
 PITTSBURG—Booth & Flinn (Ltd.), 1942 Forbes
 McNally, Thos. Co., Bates c 2d av
 Pittsburg Construction & Engineering Co., 5th & Liberty avs
 Tennis Bros. Co., Times bldg
WESTINGHOUSE ELECTRIC & Mfg. Co. (Electric Power Installation). (See adv. index, end of book)
 POTTSTOWN—Willaeur, Wm.

WISCONSIN.

JANESVILLE—Hayes Bros.
 MILWAUKEE—Columbia Construction Co. (Inc.) (Engineers & Contractors), Colby-Abbot bldg

Contractors (Electric Subway)

Commercial Construction Co., 114 E 28th, New York
 Crosby, C. H. Co., 170 Summer, Boston, Mass.
 Kobler Bros., Fisher bldg, Chicago, Ill.
 National Conduit & Cable Co., Times bldg, New York
 Regan, D. P. & Mulock, 4429 Chestnut, Phila., Pa.
 Saxton, E., 841 Bladensburg rd, Washington, D. C.
 United Engineering & Contracting Co., 32 E 33d, New York

Contractors (General)

(This list includes General Contractors in all towns with a population of over 5,000.)
 (See also Contractors, Building; also Contractors, Railroad.)

ALABAMA.

BIRMINGHAM—Black & Laird (General), Hood
 Brewer & Jones, Potter bldg
 Clark, G. H., Jefferson County Cavings B'k
 Cottrell & Cottrell, 217½ N 19th bldg
 Dunn & Lallande Bros. (R. R. Sewer & Public), Cobbs & Mayberry bldg
 Evans Bros. Construction Co. (General), 2231 1st av
 Foy-Hays Construction Co., First National Bank bldg
 Gibson, Geo. A. Co. (General), 223 N 21st
 Gillispie, E. S. (General), Lyon-Terry bldg
 Hollingsworth & Frickboffer, 219 N 21st
 Jefferson Contracting Co., 2228 Av A
 Jenkins, A. R., 2121 3d av
 Morgan, J. M. & Co. (General), First National Bank bldg
 Stockman, Henry A., 2200 Av A
 Thompson, T. C. & Bros., Title Guarantee
 Woodrow, C. M. & Co., 1831 Av A bldg
 Woodward Construction Co., First National Bank bldg
 MOBILE—Barnes, J. F. & Co., 219 N Royal
 Carney, M. M., 58 St. Francis
 Fonde, Ray, 160 N Royal
 Jett Bros. Contracting Co., 306 S Water
 MONTGOMERY—Cook & Laurie Contracting
 Graves & Anderson Co.
 Hugger Bros.

ARKANSAS.

HOT SPRINGS—Jodd & Lotz
 LITTLE ROCK—Caldwell & Drake
 Clark & Thalman
 Dalhoff Construction Co.
 Donohue, F. J. Co.
 Mississippi Valley Construction Co.
 Stanton & Collamore

CALIFORNIA.

BERKELEY—Contra Costa Construction Co. (Grading, etc.)
 Lindgren-Hicks Co. (Grading, etc.)
 Schmidt, W. J. (Paving, etc.)
 Stutt, Jno. (Grading, etc.), 2545 Aetna
 GRASS VALLEY—Body Bros.
 LOS ANGELES—Alexander, C. A. (General), Currier bldg
 Alpeter, Hall & Alpeter (General), Henne bldg
 Alsop Engineering & Construction Co. (Sewer, Water & Irrigation Systems), Trust bldg
 Anderson, D. F. (General), Trust bldg
 Atkinson, J. F. (General), Byrne bldg
 Bent, Arthur (Sewer), 235 S Los Angeles
 Beyrle, Robert (General), Helman bldg
 California Construction Co. (Breakwaters, General & Quarrymen), 324 E Market
 Calkins, A. H., Mason bldg
 Casey-Judge Construction Co., Currier bldg
 Clampitt, Lyman & Co. (Oil Well), 702 S Spring
 Clark & Werdin (Cement, Grading, etc.), Henne bldg
 Clipper, A. J. (Grading, etc.), Laughlin bldg
 Converley, W. R. (Excavating, Grading, etc.), Byrue bldg
 Crandall, W. N. (General), Stimson bldg

Crawford, A. J. (Builder & General), 478 N
Crowder, H. A., Byrne bldg Belmont av
Cummings, M. S. (Grading), Wilcox bldg
Dawson, John B. (General), Pacific Electric
bldg
Dederichs, Joseph, Citizens National Bank
bldg
Doran, Brouse & Price (Oil Well), 207 S
B'way
Duncombe Construction Co., Wilson bldg
Enders, W. H. & John, Severance bldg
Engstrom, F. O. Co. (General), E 5th &
Colyton
Fairchild-Gilmore-Wilton Co. (Paving, etc.),
Pacific Electric bldg
Flfe & White (General), 106 W 3d
Ford, B. F. (Grading), Copp bldg
Freeman, J. W. (General), Citizens National
Bank bldg
French, J. T. (Grading), Bryson bldg
Grant Bros., 206 S B'way
Griffith, Elijah (Builder & General), Carrier
bldg
Groat, C. E. (Excavating, Grading, etc.),
Amer. National Bank bldg
Hall Construction Co. (Grading, Excavating,
Sewer, etc.), H. W. Hellman bldg
Hein, J. & Co. (Excavating, Grading, etc.),
Copp bldg
Heineman-Smith Construction Co., O. T.
Johnston bldg
Hickcox & Martin (General), Merchants
Trnst bldg
Hogan, Newton (Grading), Byrne bldg
Howard, P. A. & C. H. (Grading), Frost
Hughes, J. B. (Grading), Copp bldg bldg
Jones & Slayden (Grading, Excavating, etc.),
640 S B'way
Kneer, H. E. (Builder & General), Douglass
bldg
Kubach, C. J. Co., Pacific Electric bldg
Lamberth, R. N. & Co. (General), Union
Trust bldg
Little, W. J., Mason Opera House
Low, E. F. (General), 222 E 4th
McClure, Simpson (Grading), 218 S B'way
McDonald & Williams, Spring Street Co.
bldg
McGuire, H. J. (Grading), Copp bldg
Maxon & Co., Stimson bldg
Metropolitan Contracting Co., Wilson bldg
Miller & Peasley (Grading), Wilcox bldg
Mitchell, J. B. & Co., Douglas bldg
Nieman, F. & Co., 356 S B'way
Noyes, F. A., Jr., Stimson bldg
Occidental Construction Co., 106 W 3d
Odemar, F. & Co., 356 S Spring
Olmsted & Poulson (General), Grant bldg
Pacific Construction Co., 702 S Spring
Peasley, Wm. K. (Grading), Wilcox bldg
Pittsburg Construction Co., F. P. Fay bldg
Pozzo, P. E. & Sons (General), 501 Macy
Ramish & Marsh (General), Wilson bldg
Scheerer, C. & Co. (Paving, Sewer, etc.),
255 S Los Angeles
Sherer, Rob't & Co. (Grading), 101 S B'way
Stansbury & Powell (Sewer & Grading),
Copp bldg
Stockton, George & Son, 455 N Burlington
Thornton & Long Stimson bldg
Tyron & Brain (Excavating), Merchants
Vogt, A. C., Germain bldg Trust Co. bldg
Ware, J. B. & Son, Frost bldg
Willan & Hoyer, 727 W 6th
OAKLAND—Burrell Construction Co., Central
Campbell, L. E., Bacon bldg Bank bldg
Cavanagh, E. (Sewer & Public), 1408 Tei
Concannon, William N., 490 Orchard av
Cotton Bros. & Co. (Bridge & Public),
Bacon bldg
East Shore Improvement Co., Macdonough
Heafey, William, 466 24th bldg
Hillhouse & Reardon (Paving, etc.), 363 13th
Hutchinson Co. (Paving, etc.), 401 14th
Ransome Construction Co., 1216 B'way
Stone, E. B. & A. L. Co. (General), 900
B'way
Veitch, W. T. & Bro., 1166 Webster
PASADENA—Blow Construction Co.
Slavin, M.
RIVERSIDE—Wilcox-Rose Construction Co.
(General)
SACRAMENTO—Muddox, G. L. (Sewer, etc.)
SAN DIEGO—Goodbody, Michael (Grading, Ex-
cavating, etc.)
Nelson, Olof (Street Grading, Excavating,
etc.)
SAN FRANCISCO—Allen Bros. & Townsend, 22
Market
American-Hawaiian Engineering & Con-
struction Co., Monadnock bldg
American-Pacific Construction Co., 536 Polk
Applebaum, S. & Co., 936 McAllister
Atlantic Gulf & Pacific Co. (Engineers &
General), Monadnock bldg

Bay Cities Construction Co., 953 Bryant
Bay City Construction Co., 238 11th
Blender Construction Co., 2457 Market
Brown, D. E., 604 Mission
Burrell Construction Co., 11 Front
Butler, Thos., Cnstm House
Button, I. V., 533 14th
Campbell, Jas. Co. (General), 55 Brady
City Street Improvement Co. (Street, Rail-
road, etc.), 17th & Harrison
Coast States Construction Co., 517 Market
Concannon, Wm. N. (General), 9 Mission
Consaui & Massagli, Turk & Masonic av
Currie & Currie, 1215 3d av
Delmar-Smith Co., Market & 8th
Dewar, Robert, 4th & Merrimac
Enreka Construction Co., 50 W Mission
Evaus Engineering & Construction Co., Kohl
Fahy, Richard, 518 Noc bldg
Fuller, George A. Co. (Builders, etc.),
Monadnock bldg
Gilbreth, Frank B. (Builder, etc.), 222 San-
Gillson & Macy, 1295 Golden Gate av some
Golden Gate Construction Co., 754 Golden
Gate av
Greely, Jno. (Grading), 326 8th av
Hannah Bros., 614 B O'Farrell
Healy-Tibbets Construction Co. (Bridge &
Railroad, Sewer, etc.), Mission st dock
Hopps, John H., 517 Market
Hyde, Harjes & Co. (Bridges, etc.), 13
Steuart
Kehrelin-Swinerton Construction Co., 8th &
Howard
King Construction Co., 1546 O'Farrell
Kittle Construction Co., 779 Market
Lacey, Thomas F., 17 Howard
Land & Nugent, 2445 Market
Laydon, Darby (Bridge & Dock, Sewer, etc.),
219 Stewart
Loss, C. E. Co., McAllister & City Hall av
McCullogh Contracting Co., 2233 Market
McFadden, P., 36 Potrero av
McHugh, Owen (Excavating & Grading),
710 Baker
McHugh, Peter J. (Street), 3908 Clay
McKay, Jno. H., 3499 Sacramento
McMahon, Jas. A. Co. (Dock & Bridge), 13
Steuart
McPhee Co. (Stone & General), 16th & Caro-
MacBain, John, 7th & Market
Mahony Bros., St. Francis Hotel
Masow & Morrison, Monadnock bldg
Miller, George E. Contracting Co. (Inc.), 710
Moffat-Trull Co., 779 Market Montgomery
Moffat Teaming Co. (Excavating, Grading,
etc.), 640 Stevenson
Mortenson Construction Co., 19th & Indiana
Nelson Bros. & Warming, 35 Sheridan
New Era Construction Co., 318 Market
O'Brien, Jas. H., 738 Hayes
O'Brien, Jno. F. (Sewers, Streets, etc.), 3
Scott
O'Connor, Daniel J. (General), 3689 Sacra-
mento
O'Day, Daniel (Excavating, Grading, etc.),
5 Belcher
Oiski, F. B. Construction Co., 1615 Gough
Pacific Construction Co., 17 Spear
Palmer, S. H., 17th & San Bruno av
Palmer & McBride, Monadnock bldg
Perry, F. A., Powell & Beach
Phoenix Contracting Co., 420 Valencia
Portland Construction Co., 779 Ellis
Preston Contracting Co., 11 Front
Pryor & Doty, 1300 Golden Gate av
Reagh Construction Co., 517 Market
Rice, I. L. Co., 2172 Sutter
Rountree Bros., 1221 McAllister
San Francisco Construction Co., 636 Market
San Francisco Teaming & Contracting Co.,
500 Hampshire
Schofield Construction Co., Kohl bldg
Shattuck & Desmond Construction Co.,
Steiner & Geary
Smith, Oliver & Co., 2935 Sacramento
Smith, Rice & Co. (Riggers & Contractors),
118 Howard
Sintz-Sallows Construction Co., Eddy &
Leavenworth
Summit Construction Co., 48 Bnsh
Thompson-Starrett Co. (Builders, etc.), 2053
Sutter
Thomson Bridge Co. (Bridge, Sewer & Pub-
lic), 174 Spear
Tuttle, John (Grading, etc.), 552 Haight
Van Ness & Bates (Inc.), 508 California
Vonder Horst Cram Co., Monadnock bldg
Wakefield, Robert (Dock, Bridge, etc.), 172
Walker, P. J., Monadnock bldg East
Warren Improvement Co., 210 9th
Watson Construction Co., 122 Fern av
Western Construction Co., Dolores & 15th
Woodrum Bros., 1421 Harrison

SAN JOSE—Ward, Joseph (Sewer, etc.)
Wehner, C. W. (Street, etc.)
SAN RAFAEL—Peterson, J.
SANTA ANA—Bird & Funk

COLORADO.

DENVER—Bradbury, W. C. & Co. (R. R. &
Canal), Railroad bldg
Denver & Pueblo Construction Co., Railroad
Farrar & Guy, Quincy bldg
Gaffy & Keefe Construction Co., Exchange
bldg
PUEBLO—Denver & Pueblo Construction Co.
Orman & Crook (Grading, R. R., etc.), 229
S Main
Piper Bros. Co. (Sewer & Public Work)
Shutt Improvement Co. (Grading, etc.), 335
Central blk

CONNECTICUT.

ANSONIA—Curtiss, James G. (Excavating,
Grading, etc.)
BERLIN—Berlin Construction Co.
BRANFORD—Slney, John T.
BRIDGEPORT—Burns & Co., 480 Lindley
Costigan, Jno. (Excavating, Grading, etc.),
Helen & Stillman
Dawson, Jas. (Excavating), 42 Commercial
Ford, Mich'l H. (Excavating, Grading, etc.)
General Construction Co., 1913 E Main
Pierce, B. D., Jr., Co. (Macadam Roads,
Sewers, etc.), 122 Bank
BRISTOL—Condon, Pat'k H. (Excavating)
Linstead, F. W. (Dams, Foundations,
Bridges, etc.)
DANBURY—Sweeney, Peter
White, Wallace A.
DERBY—Fagan, F. H. Co. (Excavating, etc.)
Madorno, P. (Grading, Excavating, etc.)
FARMINGTON—Caldwell, Frank A.
GREENWICH—Christiano, Joseph
Cumiskey, James
Larsen Bros.
Maxson & Co.
Smith, W. J.
HARTFORD—Balf, Edw. Co. (Excavating, etc.),
Cook, Charles C., 401 Trumbull 26 State
Hartford Paving & Construction Co. (Paving
& Public), 703 Main
Scoville, A. W. Cons. Co. (General), 756
Main
Southern, N. E. Paving Co. (Paving), 26
State
Watson, Tryon & Son (Buildings & General),
720 Main
Watson & Jackson Corporation (Sidewalk,
283 Sheldon
LITCHFIELD—Switzer, George J.
MERIDEN—Kane, James (Sewer & Masonry)
Kearney, Thomas (Road)
Lane Construction Corp. (Water Works,
Sewer, Roads, etc.)
Lines, H. Wales Co. (General), 134 State
Suzio, Leonardo (Road, Excavating, etc.)
MIDDLETOWN—Brazos, A. & Sons (General)
Donahoe Bros. (Excavating, Grading, etc.)
MILFORD—Clark, Elbert N. (Road)
NAUGATUCK—Dunn, J. H. (Sewer, Excavat-
ing, etc.)
NEW BRITAIN—Austin, M. S. (Sewer, etc.),
37 Wallace
Cadwell, Chas. B. (Sewers, Roads, etc.), 213
Main
Griswold, A. B. & Co. (Sewer), 76 Prospect
Lyman, A. A. (Sewer & Grading), 64 Church
NEW HAVEN—Blakeslee, C. W. & Sons (Rail-
road, Sewer, Paving, Masonry, etc.), 58
Waverly
Brazos, F. (Excavating, Sewer, etc.), 808 Elm
Cowell, Philip (Sewer, etc.), 21 Gilbert
Cullen, Thos. (Excavating, etc.), 889 Whal-
ley av.
Farnham, A. N. (Night Soil & Excavating),
Crescent nr Old Mill
New England Improvement Co., 15 River
O'Brien, Laurence (Heavy Masonry, Sewer,
etc.), 70 Beach
Sherman, Jno. L. & Son (Grading, etc.),
253 1st av. W. H.
Thompson, J. P. (Excavating, Grading, etc.),
962 Grand av
Upson & Grannis, 116 Franklin
Whithy, Jos. B. (Excavating & Sewer), 312
Dixwell av
NEW LONDON—Fitzgerald, J. E. Co. (Railroad
& Masonry)
Ladd, F. M. Co. (Building Construction,
Granite, etc.)
Scott, T. A. Co. (Dredging, Pile Driving,
River, etc.)
NORWICH—Carpenter, Albert N. (Street, etc.)
Torrance, Archibald (Sewer, Railroad, Pub-
lic Work Waterworks, etc.)
Williams, C. M. (General)

TORRINGTON—Mella Bros. (Sewer)
Robbiati, Ambrose (Sewer)
WATERBURY—Contaldi, P.
Keating & Eagan (Sewer)
McManus, Edw. (Sewer & Public)
Sutton, Jno. (Sewer)
Tracy Bros. Co. (General)
WILLIMANTIC—Latham & Crane
WINSTED—Carey, J. F. (Grading, Waterwork
& Public)

DELAWARE.

WILMINGTON—Manufacturers' Contracting
Co. (Builders, etc.)
Reed, A. S. & Bro. Co. (Public Work,
Building & Masonry), 815 Shipley
Tatuall-Brown Co., 109 King
Wilmington Construction Co., 222 Connell

DISTRICT OF COLUMBIA.

WASHINGTON—Allen, W. H. H., 612 F, N. W.
Baldwin, Frank W., 807 A, N. E.
Boiseau, R. E. (Grading, Excavating, etc.)
Brenlzer, Warren F. Co., 2d & O, S E
Brennan Construction Co. (General Engin-
eering Contractors), ft 31st N. W.
Carmody, Frank S. Construction Co. (Pub-
lic Work), 1413 G. N. W.
Colburn Paving Co., Bond bldg
Cowell & Sons, 1339 U, N. W.
Cowsill, Arthur (General), Colorado bldg
Cranford Paving Co. (Caisson & Bridge
Foundations), 2620 E, N. W.
Fahey & Co. (Excavating), Washington Sav-
ings Bank bldg
Fuller, Geo. A. Co., Home Life bldg
Gleeson, Andrew, 1216 N Capitol
Gummell, Edw. G. (Sewer & Public) 612
F, N. W.
Healey, Jno. T. (Paving, etc.)
Hough, George C., 619 14th, N. W.
Jennings & Scott, 314 Pa av, S. E.
McMullen, McDermott & Hoffman, 335 Del.
av, N. E.
Malnati, Antonio, 5th & V, N. E.
Nolan, John H., 1413 G, N. W.
Norcross Bros. Co., Colorado bldg
Richardson & Burgess (Inc.) Colorado bldg
Rinehart & Dennis Co. (Railroad, etc.),
Colorado bldg
Rusk, Robert V., 472 La. av, N. W.
Sand Filtration Corporation of America
(Water Works, Hydraulic Structures, etc.),
2530 1st
Saxton, E. (Paving, Sewer, Conduit Sys-
tems, etc.), 841 Bladensburg rd
Shehan, Daniel M. (Excavating, etc.), Bond
Simmons & Bro. (Paving, etc.) bldg
Stutler & Ready, 400 5th
Thomas, Columbus, 1709 35th N. W. (Large
Builders)
Thompson-Starrett Co. (Large Builders, etc.),
Commercial National Bank bldg
Yost, William H. & Bro. (Public Work),
1002 Pa. av, S. E.

FLORIDA.

JACKSONVILLE—Baker, D. M., 108 W Forsyth
Burwell & Hilyer
Cotter, William T. (Building & General
Dock & Pile Driving)

Halsema-Woodcock Construction Co.
Hammat Contracting Co.
KEY WEST—Kerr, William R.
ST. AUGUSTINE—McGuire & McDonald (Gen-
eral)
TAMPA—Kendrick & Levick
Scarlett, H. H. (Macadam, etc.)

GEORGIA.

ATLANTA—Allen, D. C. & Son, 12½ N Forsyth
Bensel, Wm. Cous. Co. (Builders, etc.),
Prudential bldg
Booth, Samson (Grading), Inman bldg
De Leon, M. (General), Fourth National
Fitts, E. B. Bank bldg
Griffin, W. W.
Gude & Walker (Builders, etc.), Prudential
bldg
Hinman, George B. (Concrete & Masonry
Dams, etc.)
Lambert, J. W. & Sons (General), 33 Ashby
Miles & Bradt Co. (Builders, etc.), Austell
Souders, B. (Paving), 6 N Forsyth bldg
Venable Bros. (Granite & Masonry), Temple
COLUMBUS—Barlow, George M.
Barlow, Malpheus C.
Hardaway, Benjamin H. (Bridges, Dams,
etc.)
MACON—Jones Bros.
Wilder & Paulin
SAVANNAH—Nessler Contracting Co., Sorrel
Power, D. & Co., 104 Bryan bldg
Ross, P. Sanford (River & Harbor), 16 E
Bryan

ILLINOIS.

ALTON—Wolf, Maupin & Curdie (Sewer &
Public)
AURORA—**AMERICAN WELL WORKS**
(Water Works). (See adv. index, end of
book)
BELLEVILLE—Hoeffkin Bros. (Paving & Pub-
lic Work)
Stookey, Charles A.
Teupel-Kloess Co.
BLOOMINGTON—Evans, J. W. Sons Co., 515
Greenlee, Tyler T. N Center
CAIRO—Ferguson, Thomas (Est. of)
CHAMPAIGN—Pollard, Goff & Co. (Roads &
Public)
Stipes, J. W. (Paving, etc.) 79 Dearborn
CHICAGO—Agnew, John P. (Street & Public),
Ailing Construction Co. (Builders, etc.), 72
Madison
AMERICAN WELL WORKS
(Water Works), First National Bank bldg.
(See adv. index, end of book)
Anders, Aug., 1121 Addison av
Andersen, Charles C. (Excavating, etc.), 176
W Madison
Andersen, Christ (Excavating, etc.), 32 Aus-
tin av
Andersen & Harms (Excavating, etc.), 87
Washington
Angus Bros. & Co., 188 Madison
Appel, Henry & Son, 172 E Washington
Arnold Co., 181 LaSalle
Ashton, Wm. R., 112 Clark
Avers, F. G. & Co. (Builders, etc.), 69
Dearborn
Bates & Rogers Construction Co. (Engineers
& Contractors), 355 Dearborn
Behel, Wilbur F., 112 Clark
Bernritter, H. (General), 79 Dearborn
Blain, Frank R., 100 Washington
Bostrom & Olson, 1988 N Clark
Brown, F. S. (Heavy Masonry, etc.), 240
LaSalle

Brownell Improvement Co. (Street, Public
Work, etc.), 138 Washington
Burkhardt, Chas. & Co. (Excavating, Grad-
ing, etc.), 5627 Augusta
Bushnell, Charles C., 138 Washington
Byrne, M. P. Construction Co. (General), 88
Washington
Caul Construction Co. (Excavating, etc.),
40 Dearborn
Channon, H. Co. (Excavating, etc.), 28
Market
Chicago Drainage Cons. Co. (Sewer), 124
Quincy
Chicago Engineering & Cons. Co. (Steam &
Electric Railways, Concrete), 77 Jackson
boul
Christle & Lowe (Eug. & Contractors), 171
La Salle
Citizens' Cons. Co. (Excavating, Grading,
Sewer, Street, etc.), 138 Washington
Clark Construction Co. (Builders, Public &
Dredging), 2 Sherman
**CLARK, C. EVERETT CO. (Build-
ers, etc.), 100 Washington. (See adv.
below)**
Collins Cons. Co. (Railroad, etc.), 92 La
Salle
Congress Construction Co. (R. R., Water
Works, Government, Heavy Masonry, etc.),
140 Dearborn
Conway, R. F. Co. (Brick, Paving, etc.),
138 Washington
Cooper, John S. (Excavating, etc.), 450 In-
Corlett, John D., 138 Washington diana
Crilly, Wm. M., 167 Dearborn
Croake, James (Excavating, Grading, etc.),
1256 Milwaukee av
Croake & O'Brien (Paving, etc.), 145 La-
Salle
Dillon, Jno. & Co. (Street & General), 172
Washington
Dobry, Rudolph, 184 LaSalle
Dolese Bros. Co. (Grading, etc.), 78 LaSalle
Dolese & Shepard Co. (Paving, etc.), 184 La
Eilenberger, H. & Co., 153 LaSalle Salle
Ericsson, Henry & John (Heavy Masonry,
etc.), 84 LaSalle
Ewens, John M. Co. (Builders & General),
The Rookery
Falkenau Construction Co. (General), 108 La
Salle
Farley, Jno. W. (Sewer & Public), Chamber
of Commerce bldg
Farwell, H. C. Co., 145 LaSalle
Flitzsimons & Connell Co., 131 LaSalle
Fralick, J. W. Co. (Construction of every
Description, Buildings, etc.), 3243 Cottage
Grove av
Fuller, George A. Co. (Builders, etc.), 1027
Marquette bldg
Gahan & Byrne, 4193 S Halsted
Galbraith, Thos. B. (Public Work), 2130 In-
diana av
Gerlach Bros. (Excavating, etc.), 60 W Bel-
mont av
Gerlach, Robert O. (Excavating, Grading,
etc.), 984 W Fullerton av
Gindele, Chas. W. Co. (Builders), 3333 La-
salle
Grace, Wm. Co. (Builders & General), 1408
Wabash av
Great Lakes Dredge & Dock Co. (River &
Harbor), Chamber of Commerce bldg
Griefen, Richard A., 108 Dearborn
Griffiths, Jno. & Son (Fire Proof Buildings),
135 Adams
Haigh, Jos. (Public Work), Marquette bldg
Hanreddy, Joseph, 100 Washington

Telephone Central 888

C. EVERETT CLARK COMPANY

General Contractors and Builders

Contracts Taken in Any Part of the United States

SUITE 1405-6 TITLE & TRUST BUILDING

100 WASHINGTON ST. CHICAGO, ILL.

Hartford Construction Co. (Public Work, etc.), 140 Dearborn
 Hauser Co. (R. R. & General), 271 Madison
 Healy, Jno. M. Co. (Sewer), 112 Clark
 Healy, Wm. F. (Sewers, etc.), 97 Clark
 Hennessy Bros. Co. (Builders & General), 95 Dearborn
 Heyworth, James O., 9 Jackson boul
 Hill, T. E. (Round Houses, Machine Shops, etc.), 99 Randolph
 Hodges, Stewart, 84 Lasalle
 Illinois Improvement & Ballast Co., 59
 Industrial Cons. Co., 54 N Clinton Clark
 Inland Construction Co., Tribune bldg
 Iverson, E. & Sons (General), 189 La Salle
 Iwema, B. (Excavating, etc.), 808 W 13th
 Jackson & Corbett Co., The Rookery
 Jensen, Hans P. (Excavating, Grading, etc.), 212 Pierce av
 Johnson, George A. & Son., 153 Lasalle
 Jubb & Eshelman, 84 Washington
 Kartheuser, Jno. (Excavating, etc.), 160
 Kearns, T. A. Co. (Bridges, Docks, etc.), 279 Dearborn
 Kelly-Atkinson Construction Co. (Builders, etc.), 188 Madison
 Kenefick Cons. Co. (Railroad, etc.), The Rookery
 Kinser Construction Co. (General), Railway Exchange bldg
 Kletenstein Bros., 107 Dearborn
 Krug, Henry A. (Excavating, etc.), 616 32d
 Krug, Wm. & Son (Excavating, etc.), 3927
 Lanquist & Illsley Co. (General), 393 N Clark
 Leonard-Martin Construction Co. (Engineers & General Contractors, Warehouses, Mfg. Plants, Railway Buildings, Power Houses, etc.), Monadnock blk
 Ledgerwood, Angus J. C. (Builders, etc.), 184 La Salle
 Lichter, B. H. & Co., 115 Dearborn
 Lorimer & Gallagher Co. (R. R., Canal, Masonry & Heavy Concrete), The Rookery
 Lyman, Jas. & Co. (Public Work), 59 Clark
 Lynch, James J., 138 Washington
 McAllister Bros. (Excavating, Grading, etc.), 4647 Justine
 McCarthy, John H. (Sewer, etc.), 84 Lasalle
 McCarty Bros. (Builders), 134 Monroe
 McDonnell & Brennan, 164 Dearborn
 McGovern, M. H. (Paving, etc.), 138 Wash-
 McMahon, James A., 167 Dearborn
 MacArthur Bros. Co., 277 Dearborn
 MacDonald Engineering Co., Monadnock blk
 Mace, Harry (General), 189 Lasalle
 Mavor, Wm. Co., First National Bank bldg
 Meiling & Walther, 84 Lasalle
 Miller, Wm. M. (Excavating, Grading, etc.), 127 N Carpenter
 Mills, Chas. W., 131 Lasalle
 Morava Construction Co., 204 Dearborn
 Moreland, H. D. Co., 97 Clark
 Mortimer & Tapper (General), 280 Lasalle
 Moses, Chas. A. (Builder, etc.), 138 Wash'n
 Mueller, Paul F. P. (General), 109 Randolph
 Municipal Engineering & Contracting Co. (Sewer, etc.), Railway Exchange bldg
 Murphy, Malachy (Sewer, etc.), 5119 Wa-
 Myers, L. E. Co., Monadnock blk
 Myrick, F. W., 7304 Yale
 Nash Bros. Construction Co. (General), 84
 Nash & Dowdle (Sewer, Public & Govern-
 ment), 145 La Salle
 National Construction Co., Tacoma bldg
 Nelson, F. P. & Son, 138 Washington
 Nelson-Secord Cons. Co., W 119th c S Hal-
 sted
 Nelson, Thomas M. (R. R. & Public), The
 Nelson & McLeod, 84 Lasalle
 Newman, Wm. J. (Excavating & Wrecking,
 Railroad & General), 84 Lasalle
NEW YORK CONTINENTAL
 Jewell Filtration Co. (Government, Muni-
 cipal, Industrial & Railroad Work), 167
 Dearborn. (See adv. index, end of book)
 North Amer. Railway Construction Co. (R.
 R.), 1320 Monadnock blk
 O'Brien, Wm. D. & Co., 112 Clark
 O'Connor, J. P. & J. W., 188 Madison
 O'Neill, John G., The Rookery
 Page & Shnoble, 188 Madison
 Parker-Washington Co., Chamber of Com-
 merce bldg
 Pearce, John F., Monadnock blk
 Pelce, John Co. (Building & General),
 Western Union bldg
 Peterson, Wm. F., 188 Madison
 Pfannmueller Engineering Co. (Power
 Plants, etc.), 119 Moore
 Phee, Thos. & Co. (General), 317 Grand
 Central Pass Station

Phoenix Construction Co. (Water Works &
 Public), Fisher bldg
 Pittsburg Cons. Co., 3932 S Halsted
 Porter, Chas. M. (Sewer, etc.), 84 La Salle
 Prendergast & Clarkson (General), 138
 Washington
 Purcell Bros. (Excavating, Grading, etc.),
 1569 W 12th
 Quinn, Joseph (Excavating, etc.), 1623 W
 Chicago av
 Republic Construction Co. (R. R. & Pub-
 lic), 108 La Salle
 Roberts Bros., 123 Lasalle
 Roberts & Schaefer Co. (Complete Coal Min-
 ing Plants, Power Houses, etc.), Old Colo-
 ny bldg
 Robinson, John C. & Son (General), 122
 Munroe
 Rock Island Construction Co., First National
 Bank bldg
 Rodatz, Jacob (Masonry & Public), The
 Rookery
 Roemheld & Gallery Co. (Contracting En-
 gineers), 138 Washington
 Roney, Wm. H., Monadnock blk
 Ross Cons. Co., The Rookery
 Ross & Co., 84 La Salle
 Ryan & Co. (Sewer, etc.), 67 Dearborn
 Sackley, Jas. A. Co. (Paving & Public), 307
 Chamber of Commerce bldg
 Salomon, Mark Co., 279 Dearborn
 Savage Construction Co., 164 Dearborn
 Scharmer, Jacob, 138 Washington
 Schlueter, Henry W. (Heavy Buildings for
 Manufacturing, Railroad, Municipalities,
 etc.), 204 Dearborn
 Schmidt, J. F. Bros. Co., 95 Clark
 Schott, Wm. H., American Trust bldg
 Scribner, G. H., Jr. (Railroad, etc.), 184
 La Salle
 Shields, R. P. & Son, 121 Lasalle
 Sievers, August (Excavating, etc.), 6211
 Centre av
 Snyder, H. V. & Son, 188 Madison
 Snyder, J. W. (Heavy Masonry, etc.), 160
 Washington
 Sollitt, Oliver Co. (Masonry & Public), 164
 Dearborn
 Sollitt, Ralph & Summer Co., 10 Adams
 Specker, T. J. (Excavating, etc.), 5648 La-
 salle
 Sproul, Elliott W. (Masonry & Public), 138
 Washington
 Standard Cons. Co. (Engineers & Con-
 tractors), First National Bank bldg
STEWART, JAS. & CO. (Harbor,
Marine & Heavy Builders), Fisher bldg.
 Stresenreuter Bros., 138 Washington
 Strand, Joseph, 857 S Ashland av
 Summers, L. L. & Co., First National Bank
 bldg
 Swift, Geo. B. Co. (Builders), 188 Madison
 Thompson-Starrett Co. (Building Construc-
 tion), 143 Dearborn
 Thone, Henry C. (Masonry & Public), 1409
 W Irving pl
 Todd, James & Co. (Masonry & Public), 145
 Tucker, Frederick J., 506 Laurel Lasalle
 Volkman, Chas. & Co., 184 Dearborn
 Wafel & Deuchler, 204 Dearborn
 Wallace-Coates Engineering Co., 355 Dear-
 born
 Warner Construction Co., 112 Clark
 Warren Construction Co., Monadnock blk
 Warwick Co. (For all classes of Fire Brick
 Work), Fisher bldg
 Wells Bros. Co., Monadnock blk
 White, Nicholas F. (Excavating, Grading,
 etc.), 1500 W Polk
 White, Thos. M. (Excavating, etc.), 1071 S
 Robey
 Wise, Clift (General), 315 Dearborn
 Witherspoon-Englar Co., Monadnock blk
 Wolf, Albert H., 218 Lasalle
 Wolfinger, Clarence I., 226 La Salle
 Yauger & Co., Chamber of Commerce bldg
DANVILLE—Cruzan, Alpheus (Public Improve-
ment, etc.)
 Leonard & McDowell
 Palmer, J. H. (Sewer & Paving)
DECATUR—Hunt, P. H. & Co., 553 N B'way
 Koons & Riney (Excavating, etc.)
 Leonard, Raymond A.
 Swisher & Brooks
EAST ST. LOUIS—Brown, W. W. Construction
 Gedney, J. I. Construction Co.
 Hartman, William B. & Sons
 Hill & Gaynard Construction Co. (Paving,
 Sewer, etc.), 6th & Walnut av
 Keeley, Michael J., 926 State
 Southern Illinois Construction Co., St. Louis
 av & Belt R. R.
 Way, Clark H., 214 Collinsville av
ELGIN—Kenyon Bros.

EVANSTON—Falcou, Joseph G.
 Wigginton, James (Sewer, Paving & Public
 Work)
FREEPORT—Ascher, William (Sewer, etc.)
 Hanke & Son (Sewer)
JACKSONVILLE—Cherry, John & Son (Paving
 Fernandez & Marks
 Gardner & Vasconcellas
JOLIET—Bennett, Nathan (Excavating & Street)
 Campbell, George M. (Public Work)
 Joliet Engineering & Construction Co.
 McHugh, Patrick (Street)
 Tunny, William
KANKAKEE—Henry Construction Co.
 McLaughlin-Mateer Co.
 Dufault, Nelson
KEWANEE—Neville, W. A. (Large)
LA SALLE—Charley Bros. (Paving, etc.)
MATTOON—Bresce, I. M. (Bridges, etc.)
 McWilliams, R. H.
MELROSE PARK—Barker, E. A. & Son
MOLINE—Gust, Ed. & Son
MONMOUTH—Davis & Cochran
MOUNT VERNON—Webber, James (General)
OTTAWA—Berndt & Praefcke (Sewer)
 Dougherty, J. M. (Sewer)
PARIS—Morrissey & Porter (Roads, Paving &
 Public)
PEORIA—Allen, Jas. S. (Paving, etc.), 1723
 Allen, W. M. Son & Co. Main
 Crescent Contracting Co., Y. M. C. A. bldg
 Flynn, John L., 124 S Washington
 Greeu, Aug., Jr. (Excavating), 404 Proctor
 Jobst, V. & Sons (Large), 233 S Adams
 Messersmith, Louis (Excavating, Paving,
 etc.), 1819 Western av
 Miller, Joseph & Sons, 530 S Washington
 Miller, Penn J., 221 S Adams
 Siefert, Fred'k (Sewer, etc.), 205 N Glen-
 dale av
 Thompson, Almon D. (Street Improvement,
 Sewer, Grading, etc.), Y. M. C. A. bldg
QUINCY—Clough Concrete Construction Co.
 (Concrete & Bridge Construction)
 Ebert & Shanahan (Railroad & Paving)
 Fetter & Crosby (River & Harbor)
 Menke, F. W. Stone & Lime Co.
 Mehaffy, Jno. E. (Grading & General)
 Rader & Graham (Concrete & Stone)
 Rees, H. J.
ROCKFORD—Key, Walter A.
 Pearce Bros.
 Rutledge, A. E. & Co. (Water Works,
 Sewer & Paving)
ROCK ISLAND—Concrete Construction Co.
 Huntoon, Jno. N.
 Larkiu, Charles J.
 McConochie, William & Sons
ST. ELMO—Johnson, F. W. (Railroad, etc.)
 Johnson, P. M. & Co. (Railroad, etc.)
SPRINGFIELD—Bretz, John E. (Sewer & Pav-
 ing)
 Culver Construction Co. (Masonry, Stone &
 Irwin, L. L. Granite)
 United States Construction Co.

INDIANA.

ALEXANDRIA—O'Hara, Thomas J. (Curbing,
 etc.)
ANDERSON—Daniels, C. H. (Paving & Public)
 Lyst, Edward E. (Cementing & Paving)
 Malone, William B. & Co.
 Millspaugh & Thompson
 Van Buskirk & Bro.
BRAZIL—Cutshall & Flagg
COLUMBUS—Caldwell & Drake
 Dunlap & Co.
 Everroad, Wm. & Son
 Keller, C. M. & Co. (Paving & Public)
 McCormack, P. H. & Co.
 Schoonover, Henry A.
CRAWFORDSVILLE—Noland & Slattey
 Waugh, James M. (Sewer & Street)
ELKHART—Northern Construction Co.
ELWOOD—O'Brien, P. T. (Public Work)
EVANSVILLE—Anderson & Veatch
 Bedford & Nugent (General)
 Eichel & Welkel (Roads, etc.), 220 Up 3d
 Fridy & Scholz (Street Improvement, etc.),
 11 L 3d
 Hollerbach & May Contract Co. (River,
 Harbor, etc.)
 Murray, Thos. W. (General), 1015 Walnut
 Ohio Contract Co. (River, Harbor, etc.)
 Scarborough-Davies Co. (Inc.), 325 Up 3d
 Whitehead, Bennett (Road Building, Grad-
 ing, etc.), 519 Monroe av
FORT WAYNE—Derheimer, Jos. (Sewer & Pub-
 lic), 722 Madison
 Fort Wayne Roofing & Paving Co. (Paving,
 Moellerling Construction Co. etc.)
 Olds, C. L. Construction Co. (Public Work)

Wayne Construction Co.
Western Engineering & Contracting Co.
Western Gas Construction Co. (Gas Works,
FRANKFORT—Ross, John A. (General) etc.)
GOSHEN—Hatch, W. W. & Sons Co. (Paving
& Publle)

GREENFIELD—Kirkpatrick, C. M. (Paving &
HAMMOND—Lavene, Charles (Sewer) Public)
HUNTINGTON—Keefer & Bailey (General)
INDIANAPOLIS—Bender, Conrad (General),
Builders Exchange

Bossert, William (Sewer & Street), 216
Geisendorff

Bruner, A. & Co. (Sewer), 730 N New
Jersey

Burnett, Seth & Son (General), 636 E
Washington

Caldwell, Marion, 145 E Market
Capitol Paving & Construction Co. (Pav-
ing, etc.), Traction Terminal bldg

Cochran, S. W. & Son (General), Bldrs' Ex
Cornellus, Hy. D. (General), 612 Stevens

Fife, William & Son (Bridges, Dams, etc.),
230 E Ohio

Foley, Daniel (Sewer & Paving), 1530 E
Washington

Graves & Stephens (General), Lombard bldg
Halstead, Wm. C., Lombard bldg

Hoosier Construction Co. (Public Work),
American Central Life bldg

Hoosier Sand & Gravel Co., Builders Ex
Hoss, Jacob D., 1734 Brookside av

Indiana Co. (General), Traction Terminal
bldg

Indianapolis Construction Co. (Street), 16
Brandon blk

Jones, Jewett W. (General), Builders' Ex
Junglaus, Wm. P. Co. (General), 827 Mass.

Keller, Julius Cons. Co., 127 Fulton av
Kenebeck & Co. (Railroad & General), Traction
Terminal bldg

Kottowski, E. A. (General), 525 Pius
Kottowski, E. F. Co. (General), 1113 Olive

Lackey, F. E. (Street, etc.), 2416 Baltimore
av

McCray, George W. (Street), Baldwin bldg
Marion County Cons. Co., 529 Fulton

Markey, Thos. J. (Sewer & Street), Lemcke
Millikan, Lynn B., State Life bldg bldg

Milliken, Isaac W., Law bldg
Moore-Mansfield Construction Co. (Inc.)
(Sewers, Water Works & Pavements,
Heavy Concrete & Stone Masonry, Board
of Trade bldg

Moore, W. E. (General), Builders' Ex
Pierson, J. C. & Son (General), 230 E Ohio

Roberson, Jas. W. (Excavating), Bldrs' Ex
Schumacher, John A. Co. (General), 820 E
St Clair

Sells, Corbin P. (General), 1901 Talbot av
Shover, Amos F.

Shover, Jas. E. (General), 219 N Alabama
Shover, Oran D. (Paving, Sewer, etc.), 534
E Washington

Smock, Ferd. C. & Co. (General), Lemcke
bldg

Spink, Edgar C. (General), Law bldg
Timmerman, August H. (General), Bldrs' Ex

Trlpp Bros. (General), c E Ohio & C C C &
St L Ry

Von Spreckelson, A. (General), North &
Highland av

Western Cons. Co. (Paving, etc.), Traction
Terminal bldg

Weyenberg, Peter C. (General), 1151 W New
York

Wolf & Ewing (General), 11 W Market
Yaryen, Jno. J. (General), Lemcke bldg

JEFFERSONVILLE—Seibert, W. F. (Street)
KOKOMO—Dixon & Hunt

LAFAYETTE—Kessener, Henry J. (General)
Stillwell, William F.

Western Construction Co. (Paving)
LOGANSPOUT—Ellison, Michael H. (Street),
1417 B'way

McGreevy, C. J. & Sons (General)
Talbot, M. A. & Co.

MARION—Barnes Bros.
MICHIGAN CITY—Ohming Bros.

Schneider, August
Van Deusen, G. S. & Co.

MUNCIE—Illingworth, Fred. & Co.
Russey, Charles H. (Paving & Sewer)

NEW ALBANY—Marion County Construction
NOBLESVILLE—Heinzman Bros. Co.

PERU—Burke & Co.
Theobald, Jacob

SOUTH BEND—Christman, H. G. & Co.
(Large), 125 S St. Joe

Hoban & Roach (Sewer, Paving, etc.)
National Construction Co.

Nelson, James (Sewer, Paving, etc.)
Shipe & Turner (Excavating, etc.)
Webster, Lewis H. (Sewer)

TERRE HAUTE—Dorsey Construction Co.

Foulkes-Forbes Co.
Kinser Construction Co.

Kintz, P. C. & Sons
Miller, J. W. & Son

Modern Construction Co.
Nordella Construction Co.

VALPARAISO—Clifford, P. T. & Son (General)
WABASH—Bridge's, Thos. Sons (Bridges, Piers
& Masonry)

Hipskind, Phillip & Sons
Stitt & Kunse

WASHINGTON—Brown, R. A. & Co. (General)
WINAMAC—Winamac Bridge Co. (Sewer, etc.)

IOWA.

BURLINGTON—Burlington Construction Co.
Sandersou, J. W.

Young, N. S. (Railroad)
CEDAR RAPIDS—Bartlett & Kling (Builders
& Public Work)

Connor, Amos H.
Leasure, John W.

Murray Bros. (Public Work)
Snoffler, J. J., Jr.

Wallace, L. & Son (Public Work)
CLINTON—American Construction Co.
Calnan Construction Co.

Hawley & Cheadle Construction Co.
Lake, John & Sons

COUNCIL BLUFFS—Barris-Besley Co. (Paving,
Sewer & Water Works)

Consolidated Construction Co.
Herman & Son

Wickham, E. A. & Co. (Paving, Sewer &
Water Works)

DAVENPORT—Davenport Construction Co.
(Street & Public)

Fitzgerald Construction Co.
General Construction Co. (Eng. & Contr's)

Kahl Construction Co.
List & Gifford Construction Co.

McCarthy Improvement Co.
McCarthy & Clark (Paving, etc.)

People's Construction Co. (General Construc-
tion, Paving, etc.)

Tri-City Construction Co. (Railroad, Street
& Public)

Walsh Bros.
Walsh Construction Co. (Paving & Public)

DES MOINES—Butcher & Storey, 527 E Walnut
Capitol City Brick & Pipe Co. (Paving,
etc.), 2, 9th

Cram, Frank, 505 Grand av
Herrick, Oliver B. (Municipal), 107 Locust

King-Lambert Construction Co., 721 21st
Likes, J. C. (Municipal), 223 Locust

Lovell, Walter D.
Magden & Sheely (Paving), Clapp bldg

Regan Construction Co. (Water Works, Rail-
roads, Sewers, etc.)

Stark, N. M. & Co. (Paving & Bridge),
Crocker bldg

Turner, J. W. (Sewer, etc.), Youngerman blk
Weitz, Charles & Son, 713 Mulberry

DURUQUE—O'Farrell, McNamara & Kenety
Pickley, John & Co.

Steuck & Linehan
FORT DODGE—McCann, Frank (Sewer & Pub-
lic)

IOWA CITY—Barry & Bradley (Paving, etc.)
Horrabin, William (Paving & Sewer)

KEOKUK—Brehany & Sons (Railroad & Public)
Cameron, McManus & Joyce (Levee, Paving,
Sewer & Public)

McManus & Tucker (Paving & Public)
MASON CITY—Younglove Construction Co.

MUSCATINE—Baker, Elijah
Petter & Crosby

Stotzman & Mauer (Sewer, etc.)
OSKALOOSA—Carlson, G. H. & Son (Paving,
etc.)

Ritchie, William E.
OTTUMWA—Ottumwa Brick & Construction Co.

SIoux CITY—Betz Bros.
Flinn & Hanlon

Lytle Construction Co.

KANSAS.

ATCHISON—Schaeffer, George H. T. & Co.
COFFEYVILLE—Plunkett Construction Co.
(Sewer, etc.)

FORT SCOTT—Hornaday, Grant
IOLA—Gillfillan, R. S. (Paving)

Hanley & Ritchie (Paving)
Klein Bros.

KANSAS CITY—Boyd, R. J. & W. M. Con-
struction Co. (Paving & Public Work), 231
N 16th

Breidenthal, C. M. (Excavating & Grading),
25 S 13th

Brindle, G. R. (Paving), 518 Ohio
Combs, J. A. (Sidewalk), 2319 N Mill

Cooley, J. H. (Excavating & Grading), 1131
Sandusky

Ela, M. G. (Street & Paving), 2002 N 6th

Loug, G. E. (Excavating & Grading), 337
Everett

Meyn, F. C. (General), 724 Kansas av
Randall, W. P. (Excavating & Grading),
646 Lucille

Rodekopf, Wm. (Excavating & Grading),
805 Sandusky

Thompson, F. A. (General), 630 Quindaro
boul

Tobin, F. W. (Excavating & Grading), 1207
Sumner

Wilson, F. R. (Excavating & Grading), 73
N 10th

Wylie, Wm. W. (Excavating & Grading),
341 Waverly

LAWRENCE—Dolley & Moody Construction Co.
Schneider, E. H. F.

LEAVENWORTH—Fuller & Garrett
McGonigle, James A. (Large)

TOPEKA—Capitol City Vitified Brick & Pav-
ing Co. (Sewer, etc.)

Cuthbert & Sargent (General)
Hanley & Ritchie

WICHITA—Brant & Taylor
Woody, Enoch, 708 N Market

KENTUCKY.

ASHLAND—O'Kelly Construction Co.
COVINGTON—Craig, John J., 24 W 9th

Stevens, J. R. Co., Farmers & Traders Bank
FRANKFORT—Cryer & Miner bldg

Mason, Hanger & Coleman Co. (Sewer &
Public)

HENDERSON—Bailey & Kroener
LEBANON—Oftutt, Andrew

LOUISVILLE—Beunett, E. J. (General), 2444
Olive

Bickel, Henry Co. (Grading & Excavating),
1048 Garden

Bornstein, J. (General), 73 3d
Clark, R. L. & Co. (General), 648 W Jeff

Colston, E. L. (Street), 2702 Bismarck av
Cornwell, Charles L., 3814 High av

Dinwiddle, Wm. (General), 3118 Southern av
Figg & Kilgus (General), 243 6th

Gleason, J. R. (Street, etc.), 544 W Jeff
Gosnell, G. W. & H. S. (Street, etc.), 327
5th

Gott, Fred, Tyler bldg
Hawkins, R. C. (General), 2308 Olmstead av

Karrer, Edw. (Excavating), 1433 E Jacob
av

Klitterman, H. M. (General), 2634 Hemlock
Kremer, H. L. & Co., 445 W Main

Lewman, J. B. & Co., 445 W Main
Lewman, M. T. & Co. (Builders & Public),
Tyler bldg

McClusky, M. J. (Grading), 1708 Brook
Miner, J. S. & Sou (General), 312 W Jeff

National Roofing & Supply Co. (Paving), 140
W Main

Nugent, W. F. & Bros. (Excavating), 243
Peterson, Erich E. (Paving), 337 5th 5th

Rommel Bros. (General), 915 E B'way
Schmitt, Jno. P. (Excavating), 1213 Overhill

Seigel (Paving & Grading), 2719 St. Xavier
Selden-Breck Construction Co.

Serpell, John R. & Co., 1039 2d
Sibler, Jos. & Co. (General), 1120 26th

Southern Roofing & Paving Co., 1006 W
Main

Stelsly, J. C. (General), 844 Baxter av
Summers, A. A. (General), 1021 18th

Venable, J. S. (Street), 3608 3d
Willett, D. J., Tyler bldg

Williams, Jeremiah (Street), 717 7th
NEWPORT—McCann, Mont (Heavy Masonry,
Excavating, etc.), 725 Ann

McLane, James S. & Son, 337 York
Spinks, Chas. & Son (Street Work), 121 E
6th

OWENSBORO—Dawson, C. E. (Street)
PADUCAH—Chamlin & Dunlap

Katterjohn, F. W. Construction Co.
Robertson & Gardner

Terrell, E. C.

LOUISIANA.

LAKE CHARLES—Maginnis & Relmars
MONROE—Dnnan, M. (General)

NEW ORLEANS—American Cons. Co., 204
Carondelet

Babst, Chas. J. (Paving & Public), 1205 S
Bixler, Frank L., 840 Union Franklin

Black & Laird, 527 Canal
Callaghan & Graham, 421 Carondelet

Calangne & Sargent (Paving), Hibernia B'k
Carey, W. T. & Bro., 630 Camp bldg

Christie & Lowe, 107 Camp
Cook & Laurie Contracting Co., 527 Canal

Craven, J. A. & Co. (Paving, etc.), 1332
Cusachs, Gaspar, 316 Baronne Tulane av

Dameron & White, Hennen bldg
Dowdle & Windett, 320 Magazine

Fath, Philip (Paving), 840 Union
 Fraser Contracting Co., Hibernia Bank bldg
 Frelsen, Joseph R., Hibernia Bank bldg
 Gardner, J. H. Cons. Co., 505 Tchoupi-
 toulas
 Glover, George J. (Heavy, Building, Mason-
 ry Pile Foundations, etc.) Hibernia Bank
 bldg
 Grasser Contracting Co. (Paving, etc.),
 Hennen bldg
 Irwin Bros. (Sewers & Public Work), 627
 North
 Jahncke Navigation & Improvement Co.
 (Paving), 814 Howard av
 Kracke & Flanders, 630 Gravier
 Louisiana Central Cons. Co., Hibernia Bank
 bldg
 Louisiana Improvement Co. (Paving, etc.),
 Hennen bldg
 Menzies & Co., 830 Canal
 Muir & Fromherz, 211 Camp
 Orleans, Chas. A., 319 Carondelet
 Scott, N. G. (R. R. & Pile Driving), Hen-
 nen bldg
STEWART, JAS. & CO. (Harbor,
Marine & Heavy Buildings), Hibernia
 Bank bldg
 Terry, Orin F., Hibernia Bank bldg
 Tranchina, D. & J., 1104 6th
 United Construction Co. (Excavating, etc.)
SHREVEPORT—Chatwin Bros. (Street & Pub-
 lic)

MAINE.

AUGUSTA—Puriton Bros. Co.
BANGOR—Eastern Construction Co.
 Mullen, J. B.
 Smith, W. D. (Railroad)
BAR HARBOR—Jordan & Whitaker
LEWISTON—Bearce & Clifford Construction
 (Railroad, Sewer & Masonry)
PORTLAND—Bennett, Wm. F. & Son, 3 Moul-
 ton
 Blaisdell & Lewis, 36 Oak
 Doyen, Philip H., 117 Commercial
 Field, M. B., 286 Spring
 Griffin, D. F. & Bro. (Paving & Public),
 106A Exchange
 Gulliver, John W., 102 Exchange
 Libby, S. & Son (Excavating, etc.), 191
 Brighton av
 Shanahan, Richard D. (Public Work), 221
 Franklin
 Smardon, George H. & Co. (Paving), 42
 Market
 Standish Water & Construction Co.
 Tuttle & Fernald (Excavating, Sewer, Grad-
 ing, Paving, etc.), 178 Commercial
 Worster & Wilson (General), 92 Stevens av
ROCKLAND—Glover, W. H. & Co. (Public
 Work)
RUMFORD FALLS—McGregor & Carroll
WATERVILLE—Bushey, William L. & Co.

MARYLAND.

BALTIMORE—Ament, Geo. F. (General), 1124
 N Fremont av
 Anderson, W. E. (General), 201 St. Paul
 Arnold & Wells, American bldg
 Atkinson, Jas. H. (Paving, etc.), 29th &
 Hampden av
 Baltimore Paving & Contracting Co., 102 N
 Sharp
 Baltimore Sanitary Contracting Co., Fidelity
 bldg
 Bennett, Rufus & Son (Buildings & Gen-
 eral), Franklin bldg
 Bennett, Benj. F., 123 S Howard
 Blackwell, J. L. & Co.
 Blake, George A., Law bldg
 Buckley, Jno. T. (Buildings, etc.), 916 Bol-
 ton
 Burnham, Walter E., Union Trust bldg
 Chesapeake Contracting Co. (General), Con-
 tinental bldg
 Cremon, Jas. C. (General), Carey, nr Presst-
 man
 Darby, R. D. & Co., 701 N Fulton av
 Diller, V. & Son (General), Belair rd
 Dotterwelch, Jno. J. (General), 1235 N 5th,
 E
 Douglas, Gilmore & Co. (General), 211 E
 Fayette
 Fidelity Construction Co. (Railroad), Con-
 tinental bldg
 Filbert Paving & Construction Co. (Paving
 & Grading), 1210 Block
 Flanagan, P. & Son (General), Lexington &
 Calvert
 Ford, Richmond H. & Co., Equitable bldg
 Fuller, G. A. Co. (Builders, etc.), American
 bldg
 Glenn, Benj. (Bridge), 2300 E Baltimore
 Henderson & Co. (Ltd.), 218 W Fayette
 Hiltz, John & Sons (Buildings, etc.), 3 Clay

Hook & Ford Contracting Co. (Crushed
Stone), 6 E Lexington
 Howser, Geo. W., 36 Wyoming
 Huse, A. R. & Sons, 12 Gorsuch av
 Jenkins, John H. & Sons (General), George-
 town
 Jones, T. B. & Co. (R. R. Sewer, Masonry,
 Wharfs, etc.), Fidelity bldg
 Kratz, John A., Waverly
 Larkin, Dominick M., 1463 Columbia av
 Lauer & Harper (Building & Bridges),
 Westport
 Long, Frank H. (General), 111 1st av, E
 McCabe, James F. Co. (Paving, Tunnel,
 Bridge & Railroad), Equitable bldg
 McCulloh, R. N. & Co. (General), 118 E
 Lexington
 McLean Contracting Co. (Dock, Bridge &
 Railroad), Maryland Trust bldg
 Manning, W. T. Co., Equitable bldg
 Maryland Contracting Co. (Excavating),
 Lobe bldg
 Maryland Pavement Co. (Asphalt Block &
 Tile Pavements), 6 E Lexington
 Nardin, George F., 773 W Pratt
 Newhall & Co. (General), 13 E Read
 Noel Construction Co. (General), Eutaw &
 McCulloh
 Peddicord, Isaac H. & Sons (Paving, Grad-
 ing, etc.), 879 Greenmount av
 Reddington, P. & Sons (Paving & Public),
 325 St. Paul
 Ripley, Henry S., 5 Clay
 Robertson, Jno. L. (Paving, Grading, etc.),
 6 E Lexington
 Sanford & Brooks Co. (Railroad, Dredging,
 Harbor & Government Work), 15 South
 Schneider, F. E. & Co. (Excavating, Paving,
 etc.), Law bldg
 Schwind Quarry Co. (Paving & Masonry),
 Fidelity bldg
 Sheridan, John A. Co. (General), 321 N Hol-
 liday
 Shreve, Arthur L. & Co. (General), 1001
 Guilford av
 Sindall, Jas. W. (General), 1353 York rd
 Smith, Henry & Sons (Building & Public),
 116 S Register
 Talbott, M. A. Co. (Sewer, etc.), American
 bldg
 Thomas, D. W. & G. H. (General), 227 E
 German
 Thormann, Jno. H. & Co. (Sidewalks), 12
 McClellan
 Utterbaugh, George (General), Hoffman bldg
 Walsh, J. J. & Son (Buildings, etc.), 1525
 Maryland av
 Wells Bros. Co. of New York (Buildings,
 etc.), Union Trust bldg
CUMBERLAND—Macarthur Bros. Co.
 Porter, Josiah M.

MASSACHUSETTS.

ARLINGTON—Welch, Richard A. & Co. (Grad-
 ing)
ATTLEBORO—Perry, N. & Co. (Sewer, etc.)
BEVERLY FARMS—Connolly Bros. (Public
 Work)
BOSTON—Ambursen Hydraulic Construction Co.
 (Dams, Bulkheads, Power Houses & Gen-
 eral Hydraulic Construction), 176 Federal
 Atlantic Construction Co. (Public Work), 6
 Beacon
 Barrett, J. J. (Excavating, etc.), 615 Dor-
 chester av, S. B.
 Barry, William J., 58 Kenwood rd, Rox.
 Bianco, Louis M. (Excavating, etc.), 43
 Tremont
 Bishop, J. W. Co. (Builders & Public
 Work), 683 Atlantic av
 Blanchard, W. H., 24 Milk
 Brennan, P. & Co. (Excavating, etc.), 32
 Chestnut, Chsn.
 Breymann, G. H. & Bros., 293 Marginal,
 E B
 Bryne, G. M. (Public Work), 7 Water
 Cahill Construction Co., 7 Water
 Castellucci, Frederico (Excavating, Grading,
 etc.), Equitable bldg
 Cavanagh, Jno., & Son (Building, Moving &
 Heavy Masonry), 473 Dorchester av, S B
 Cheney, Ethan R. (Estate) (Street & Public
 Work), 80 Pleasant, Br.
 Clark, E. W. & Co., 7 Water
 Coleman Bros., 15 Court sq
 Coleman, D. E. Co. (Public Work), Old
 South bldg
 Coleman, Jno. C., & Son (Street & Public),
 41 Ritchie, Rox.
 Collins & Ham (Public Work), 119 Boston,
 Dor.
 Columbia Improvement Co. (Public Work),
 84 State

Cowin, Frank H. Co. (Public Work), Old
 South bldg
Cram, D. H. (R. R. Bridges & Public
Work), 702 Dorchester av, Dor.
Derry, C. T. & Co. (Sea Walls, etc.), 68
 Devonshire
Dillingham, George A. & Co. (Paving, etc.),
 19 Exchange pl
Donovan, John (Grading, etc.), 95 Milk
Donovan, Patrick F. (Grading, etc.), 115
 Terrace
Duncan, Chas. (Grading, etc.), 92 Kemble
Edwards, William C., 6 Beacon
Ellis, W. H. (Bridge & Masonry), 17 Milk
Everson, E. W. & Co., Huntington av c
 Ward
Farnum, Loring N. Co. (Engineers & Con-
tractors), 53 State
Fletcher & Lahey (Excavating, Bridge &
Dam Masonry Foundations, Stone Mason-
ry, etc.), 166 Devonshire
Fosburg Co. (Manufacturing & Power Plants,
Railroad Buildings, Office Buildings,
Heavy Masonry & Concrete), 6 Beacon
Foss, Geo. H. Co. (Grading, etc.), 50 Brom-
 field
Fox, Benjamin, 16 State
Fuller, Geo. A. Co. (Builders), 131 State
Gilbreth, Frank B. (Large)
Gill, T. H. & Co. (Public Work), 88 Broad
Gilligan, William (Excavating, Grading,
etc.), 28 Mechanic, Rox.
Gore, F. S. & A. D. (Paving, Sewer, etc.),
 Old South bldg
Gore, J. Thomas (Public Work), 54 Kilby
Gow, Charles R. Co., 79 Milk
Grose, W. H. & Co. (Paving, etc.), 54 Kilby
Hanscom, H. A. (Grading, etc.), 53 State
Haskin, Chas. A. (grading, etc.), 16 City sq
Hayes, Geo. & Co. (public work), 166 Dev-
 onshire
Haynes, Walter L. (Grading, etc.), 125
 Magazine
Healey Sewer Machine & Construction Co.
Sewer Cleaning), 15 Beacon
Hill, Peter W. (Public Work), Old South
 bldg
Holbrook, Cabot & Rollins Corp., 6 Beacon
Horton & Hemenway (Large Builders), 683
 Atlantic av
Hub Construction & Supply Co., 685 E 5th
International Construction Co., 42 Court
Jacobs, Charles J., 107 Terrace, Rox.
Jones & Meehan (Street & Public Work), 10
 Tremont
Keyes, W. H. & Co. (builders, street & pub-
lic work), 95 Milk
Kiley Daniel J., 95 Milk
Lahey Bros. (Masonry & Granite), 9 Corn-
 hill
Langford, Jno. T. (public work), 70 Kilby
Lawler Bros. (heavy masonry, etc.), 16 City
 sq, Chsn.
Letteney, John H. (Public Work), 50 Con-
 gress
Ley, Fred T. & Co. (Public Work), 630 E
 1st
Libby, James O. & Co. (Paving, etc.), 10
 Palmer, Rox.
Lynch, Daniel E. (Grading, etc.), 44 Gibson
McBride, John F. (Sewer, etc.), 8 Winship,
 Br.
McCarthy, J. J. & Co. (Grading, etc.), 170
 Summer
McCormick, Matthew, 157 Ward, Rox.
McDonald, Angus, 161 Devonshire
McGovern, Jas. (excavating, etc.), 875
 Adams (Dor.)
McGovern, Patrick (Paving), 6 Beacon
McMorrow, Jno. (grading, etc.), 328 Adams,
 (Dor.)
McMurtry, A. J. & G. H. (Excavating,
etc.), 16 Shepard (Br.)
McNeil Bros. (building & public), 196 Free-
 port, Dor.
Macomber, Geo. B. H. Co. (Builders, etc.),
 16 State
Mead, Mason & Co., Tremont bldg
Metropolitan Contracting Co. (street and
public work), 95 Milk
Miller, W. L. (Bridge and Masonry), 166
 Devonshire
Minton, Thos. F. (Grading, etc.), 4 Hyde
 Park av
Moore & Co. (Water Works and Public
Work), Pemberton
Munroe, W. B. (Public Works), 181 Tremont
Murphy, Cornelius & Son (Grading, etc.),
 296 Kilton
Nawn, Hugh Contracting Co. (Excavating &
Public), 82 Savin
Norcross Bros. Co. (Builders & Public
Work), Tremont bldg
Northeastern Construction Co. (Public Work),
 6 Beacon

O'Brien, J. W. & Co. (Grading, Sewer, etc.), Old South bldg
 O'Connell, Dennis F. Co. (Heavy Masonry, etc.), 6 Beacon
 O'Riordan, P. (Est.) (Excavating, etc.), 6 City sq
 Perkins, Seth (Public Work), 17 Milk
 Quirk, D. S. Co. (Excavating), 548 Albany
 Rafferty, Wm. J. & Co. (Grading, etc.), 56 Dorchester av
 Railway Contracting Co., 6 Beacon
 Roberts, Edward B., Old South bldg
 Seretto, Michael (Sewer & R. R.), 42 Court
 Shaller & McCormick (Public Work), 101 Tremont
 Shea, Thos. J. (Grading, etc.), 186 Green, J. P.
 Snow, F. A. (Public Works), 166 Devonshire
 Soule, Dillingham & Co. (Paving & Street Railways), 19 Exchange pl
 Soule, L. P. & Son Co. (Building & Masonry), 166 Devonshire
 Sullivan, Jeremiah J. (Excavating, etc.), 95 Milk
 Sullivan, Jno. H. (Road & Sewer), Lake & Commonwealth av
 Thompson-Starrett Co. (Building Construction), 141 Milk
 Tomasello, Antonio G., 69 Gibson, Dor.
 Trumbull, C. E. Co. (Sewer & Public Work), Tremont bldg
 Turner, H. G. & Co. (Paving, etc.), 20 Central
 Wells Bros. Co., 101 Tremont
 Whidden & Co. (Building & Masonry), 155 Whitcomb & Kavanaugh, 6 Beacon
 Wilson, Robert, 15 Ashburton pl
 Wyman, Wendell H., 68 Devonshire
BROCKTON—Howard, George & Sons Co.
BROOKLINE—Driscoll, J. & Son (Public Work)
 Kelley, T. J.
 Solan, Michael, Jr. (Grading, etc.)
CAMBRIDGE—Barrett, James T., 619 Cambridge
 Linehan, Chas. (Est. of) (Public Work), 48 Bridge
 McCulloch, Samuel (Sewer), 215 Erie
 Norcross Bros. Co.
 Riley, J. M., 113 Huron av
CHELSEA—Lawler Bros.
CHICOPEE—Gauthier, Edmond (Excavating)
 Healy, Michael C. (Excavating)
 Rivers & Young (General)
EVERETT—Coleman Bros.
 Oakes, George U.
FAIR HAVEN—Dodge & Grant
FALL RIVER—Allen, A. A. (Road Building & Excavating), 742 Davol
 Cole, Charles M., 80 Belmont
FITCHBURG—Moran, Jno. (Excavating & Grading), 274 Rollstone
FRANKLIN—McCarty Bros.
GLOUCESTER—Cressy, Walter
 Morley, Flatley & Co. (Water Works, Sewer, Heavy Masonry, etc.)
HAVERHILL—Cashman, Jno. (Excavating, Road & Paving), 150 Hildale
HOLYOKE—Landers, D. J., 231 High
 O'Connell's, D. Sons (Water Work & Public), 188 Hampden
 Rivers & Young (Dam Builders, etc.), 72 Skeel, Will.
LAWRENCE—Chambers, J. (Excavating, Grading & Sewer)
 Holland, Philip (Excavating, etc.)
 O'Mahoney, Michael
 Pike, W. N. & Sons (Large)
LOWELL—Conners Bros. Co.
 Lowell Construction Co. (Excavating, etc.)
 Ward, Wm. H. (Public Work), 241 Howard
LYNN—Bryer, Arthur E. (Sewer & Public), 461 Western av
 Mayo, Fred. D. (Sewer, Paving & Excavating), 333 Union
 Pevear, Everett S. (Excavating, etc.), 539 Western av
 Sheehan, John & Sons, 585 Western av
MALDEN—Johnson Bros. (Street & Public), Floral av
 Sullivan, Patrick F. (Sewer, etc.)
MILFORD—Cendella Bros. (Macadam & Public)
NEW BEDFORD—Davis, Chas. E. (Masonry, Jetties, etc.), 35 Commercial
 Duff, David & Son (Excavating, etc.), 73
 Smith, Benj. F. Co. (Large)
NEWBURYPORT—Cashman Bros. (Roads, etc.)
NEWTON—Stuart, T. & Son Co. (Public Work)
NEWTON CENTER—Hurley Bros. (Grading, Roads & Masonry)
 Muldoon, Arthur (Sewer & Excavating)
 Sullivan, T. D. (Excavating, etc.)
NORTH ADAMS—Whitney Bros.
NORTHAMPTON—Bailey, William A. (Sewer, etc.)
NORTH ANDOVER—Adams, Edw. (etc.)

PALMER—Atkins, George M. Co. (Heavy Masonry, etc.)
 Flynt Building & Construction Co.
PITTSFIELD—Beckwith & Pike
 Construction Co. of America
PLYMOUTH—Holmes, Charles T.
QUINCY—Cashman, John
 Gardner, C. P. Grading, etc.)
 Shea, William & Son (Excavating, Grading, etc.)
READING—Michellini, A. (Roads & Excavating)
SALEM—Peterson, J. N. & V. S. (Sewer, etc.)
 Welch, Jas. J. & Co. (Public Work)
SOMERVILLE—Gill, T. H. (Public Work), 22 Bonair
 McCarthy, Wm. J. & Co. (Public Work), 27 Bonair
SOUTH FRAMINGHAM—Fales, A. & Sons
 Saucier, August (Macadam & Public)
SPRINGFIELD—Goodrich, William C. (Excavating, Grading, etc.), 139 White
 Ley, Fred. T. & Co. (Sewers, Water Works, Electric Roads, etc.)
 Reynolds & Co. (Excavating, etc.), 355 Maple
 Sackett Bros. (Excavating, Grading & Sewer), 834 Worthington
 Shaw, V. A. (Excavating & Grading), 86 Dawes
 Vaughan, Geo. N. (Excavating, Water Works, etc.), Sound, nr South End Bridge
 Wright, A. H. & Son (Dam, Bridge & Heavy Masonry), 77 Alexander
SWAMPSCOTT—Lyons, James T.
 McDonough, Mich'l (Street & Public)
 Tuttle, H. Scott (Street & Public)
TAUNTON—Briggs, Abrom T. (Heavy Masonry, etc.), 86 Winthrop
 Magee, Jno. F. & Co. (Sewer, Public & Water Works), 115 B'way
 Taunton Construction Co., 292 Washington
WAKEFIELD—Butler, A. A. (Masonry & Roads)
 Killorin, Geo. W. (Roads & Grading)
WALTHAM—McCusker, Frank W. (Masonry, Grading & Macadam)
 McCusker, John H.
 Mailoy, P. & Son (Excavating, Grading, etc.)
 O'Malley, Peter J. (Excavating, etc.)
WATERTOWN—Murdoch, Albert B.
WEST CHELMSFORD—**FLETCHER, H. E.**
 & Co. (Excavating, Bridge & Dam Masonry, Foundations, Stone Masonry, etc.)
 (See adv. index, end of book)
WEST NEWTON—Cotter, Jerry & Sons
 Mague, W. H. (Sewer, Water Works & Railroad)
WINTHROP—Craib, Charles G. (Public Work)
WORCESTER—Allen, F. L. (Sewer & Public), 8 Forest
 Ballard Granite Quarries (Excavating & Stone Work), 340 Main
 Bishop, J. W. Co. (Builders & Public Work), 109 Foster
 Cross, E. J. (Builder & General), 82 Foster
 Cutting, G. H. & Co. (General), 11 Foster
 Donohue, Michael (Sewer), 8 Perry av
 Kane, Michael J. (Excavating, Grading, etc.), 9 Wade
 Kelly, Jno. F. Co. (Excavating, Paving, etc.), 57 Barclay
 Massachusetts Contracting Co., 10 E Worcester
 Mellen, Henry & Son (Building), 41 Queen
 Norcross Bros. Co. (Builders & Public Work), 10 E Worcester
 Pike, H. S. (Excavating & Road), 12 Townsend

MICHIGAN.

BAY CITY—Bay City Dredging Co.
 Campbell, Hugh
CALUMET—Roehm, Paul P.
DETROIT—Affeld, Jno. S. (Sewer, etc.), 461 Baker
 Albrecht, Albert A. (Builders, etc.), Penobscott bldg
 Bartholomaei, Max W. (General), 245 Warren av, E
 Carew & Chase (General), Majestic bldg
 Carmichael, Andrew T., 145 Forest av, W
 Currie, George E., 395 Cadillac av
 Currie, W. E., Pen. Bank bldg
 Detroit Dredging Co. (River & Harbor Improvements, etc.), 26 Lafayette
 Detroit-Toledo Construction Co., 1004 Penobscot
 Furman Construction Co., 951 Bellevue av
 Gearing Bros. (Ltd.), 15th & M. C. R. R.
 Griffin, M. J. (Railroad, Paving & Masonry, etc.), 104 Lafferty pl
 Hall, Alfred J. (Excavating), 308 Catherine
 Hamilton, Wm., River, Fort Wayne
 Hanley, Jas. (General), 40 Fort, W

Hatch, W. W. & Sons Co., Buhl blk
 Jaynes, John (Sewer, etc.), 399 Avery av
 Jones, E. B. (Sewers & Grading), 405 Stanton av
 Kennedy, D. J. & Son (General), Home B'k bldg
 Langley, Geo. S. (Sewer), 133 Congress, E
 Langley, Wm. P. (Sewers), 161 Elizabeth, E
 Lennane Bros. (General), 40 Fort, W
 Lloyd Construction Co. (Gas Works), Belt R. R. & Greenwood av
 Lockerbie, George, 91 20th
 Mercier, John A. (Excavating, etc.), Hammond bldg
 Moynes, George F., 137 Brady
 O'Donnell, Hugh & Son (Excavating, etc.), 1336 18th
 Palmer, Jno. G. (Excavating, etc.), Waterloo & Canton av
 Porath, Julius (Sewers, etc.), 40 Fort, W
 Reid, E. W. & Co., Peninsular Bank bldg
 Reynolds, Geo. (Grading, etc.), 669 16th
 Saunders, Amos, 75 Columbia, W
 Spicer, David (General), 34 Frederica (Delray)
 Vinton Co., Woodbridge & Beaubien
 Westcott Wrecking Co. (Marine, Wrecking, etc.), ft of Woodward
 Whittaker, Thos. G. (Sewer, etc.), 189 Selden av
GRAND RAPIDS—Ackerman, J. B. (General), 120 N Union
 Appleyard, Johnson & Co. (General), Powers Theatre bldg
 Bovee, Walter, Reeds Lake
 Boyes, D. W. (General), 275 Stocking
 Campbell, P. C. Co. (General), Houseman bldg
 Davldson, G. H., Houseman bldg
 De Bruin, Henry (Sewer), 56 Cass av
 Hauser, Owen & Ames (General), 102 N Ottawa
 Kioote & Van der Veen (Street), 850 E Fulton
 Lampman, Frank (Street), 1160 Cottage Grove av
 McNabb, Jno. Co. (General), 145 N Ottawa
 McDermott, Jas. & Son (Paving, etc.), 315 Bowery
 Pickett, Richard (Street), 1056 Hail
 Rosema, N., 345 Lake av
 Rusche, J. P., 4 Portsmouth ter
 Schliess, F. C. (General), 57 Parkwood av
 Westra, N. J., The Gilbert
HARBOR SPRINGS—Leahy & Glenn (General)
HOUGHTON—Northern Construction Co.
 Pryor, James, Sr.
IONIA—Huntley & Co.
IRON MOUNTAIN—Marsch, John
 Parmelee & Son
JACKSON—Cowham Engineering Co.
 Dayton, M. A. & Co. (General)
KALAMAZOO—Flaitz, Frank
 Rickman, George & Sons Co.
LANSING—Rogers, Herbert M.
MARQUETTE—Van Iderstine, Charles C.
MENOMONEE—Spaulding, E. P.
MUSKEGON—Bennett-Schnorbach Co.
 McIntosh, Alex.
PORT HURON—German, Garret S. Sons
SAGINAW—Davies, J. C. (Sewer, Paving, etc.)
 Granville, John J.
 Heinemann, Morris C. (General & Paving)
 Hubbard, W. H. & Co.
 Hunter & Stewart Construction Co.
 Parth, John
SAULT SAINT MARIE—Great Lakes Dredge & Dock Co. (River & Harbor)
 Hickler Bros. (Dredging & Submarine Drilling)
 Hubbell, H. W. & Co. (ing)

MINNESOTA.

ALBERT LEA—Tapager & Hanson
DULUTH—Barnett & Record Co. (Engineers & General), Lyceum bldg
 Campbell, L. D. & Co., Lonsdale bldg
 Campbell & Ferrier, Lonsdale bldg
 Drake & Stratton Co., First National Bank
 Engle, Emil (Sewer), 931 E 5th bldg
 Fredrikson, C. J. (General), Manhattan bldg
 Great Lakes Dredge & Dock Co. (River & Harbor)
 Hood, D. P. (General), Mesaba bik
 Hilliard, J. W. (General), 9 Winthrop bldg
 Hugo & Timms, Manhattan bldg
 King, Geo. R. (Sewer & Public), Mesaba bik
 King, W. F. & Co. (General), 102 S 1st av, E
 MacLeod & Smith (General), Torrey bldg
 Olson, O. W. (Buildings, Excavating, Sewer, Grading, etc.), 424 9th av, E
 Osborn & Co., 827 Lake av, S
 Porter Bros. (Railroad & Public), Manhattan bldg

Roberts-Kingston Contracting Co.
 Roberts, Alex., Burrows bldg
 Sang, Alex. (General), 31 N 18th av, W
 Smith & Vokes (General), Exchange bldg
 Truax, Thos. & Co. (General), 57th av, W c
 D. M. & N. Ry
 Wallace Contracting Co. (General), Lyceum
 bldg
 Watterworth & Fee (General, Street & Pub-
 lic), Torrey bldg
FERGUS FALLS—Lauritzen Bros. (Paving,
 etc.)
LITTLE FALLS—Harrison & Peterson
MANKATO—Monks & McKinley (Grading, etc.)
MINNEAPOLIS—Acme Paving Co. (Paving,
 etc.), 2836 15th av, S
 Anderson, Fred'k, 2810 S Bryant
 Baich, Henry F. (Railroad, etc.), Century
 bldg
 Barnett & Record Co. (General), Corn Ex
 Brayton Engineering Co., Guaranty bldg
 Brown, G. W. (General), Masonic Temple
 Buege, L., Boston blk
 Cedarstrand, August, 934 Central av
 Cleveland, W. S. & Co. (General), 612 Corn
 Ex
 Columbia Improvement Co., Lumber Ex
 Comstock, E. F. & Co. (Grading, etc.),
 Temple ct
 Cooke, Geo. A. (General), Boston blk
 Cooper, B. (General Contractor & Builder),
 1114 Yale pl
 Cronk, William B. (General & Railroad),
 Globe bldg
 Daly, Nels (Grading), 20 W 29th
 Davis Construction Co., Kasota bldg
 Devine, William, New Brighton
 Elliott, J. & W. A. (Public Works), Lumber
 Ex
 Euil, Anton (General & Railroad), Globe
 Evensta & Hagstrom, Northern bldg
 Fagan, James W., 3105 22d av, S
 General Contracting Co., Temple ct
 Gray, W. I. & Co. (Water Works)
 Guertin, F. D., 1124 Aldrich av
 Haglin, Chas. F. (General), 228 Lumber Ex
 Hutchinson, J. T., 740 Temple ct
 Ibberson, T. E., Corn Exchange bldg
 Istrup, Christian L. (Sewer, etc.), Security
 Bank bldg
 Jones, F. C. & Co., 3116 S 21st av
 Kerrick, C. W., 501 3d av, N E
 Kohler, F. J., Andrus bldg
 Lasley, W. M., 110 Temple ct
 Leck, James, S 7th, bet 2d & 3d avs
 Lees, R. E. (General Contractor & Builder),
 303 6th av, S E
 Leighton, H. N. Co. (General), 213 S 6th
 Lepper, C.
 Libby & Nelson (General), Temple ct
 Lindquist & Noren, Bank of Commerce bldg
 McLeod, Angus Co. (General), 409 6th av, S
 McMillan, F. G. (General), 2 S E 5th
 Morong, G. W., 2916 Pillsbury av
 Nason, Joseph F., Northwestern bldg
 Nelson Bros. Paving & Construction Co.
 (Paving, etc.), 221 S 5th
 Olson, John (Sewer), The Phoenix
 Park Construction Co. (General), 12 S 4th
 Pelton, R. B. (Builder), 418 6th av, S
 Peterson, S. J. (Excavating), 2942 Pillsbury
 av
 Pike & Cook (Builders & General), 416 S 5th
 Plymouth Paving & Construction Co. (Side-
 walk, etc.), 720 Plymouth av
 Prince Construction Co., Northwestern bldg
 Prinz & Sacre (Grading), 2112 Garfield av
 Robinson, J. L. (Builder), 265 S 7th
 Smith, C. C. & Co. (Grading), 2901 S E 6th
 Stone & Webster, Lumber Exchange
 Swenson, S., 258 N Plymouth
 Winston Bros. Co. (Railroad, etc.), Globe
 Winston-Dear Co., Globe bldg
 Wunder, John Co., Lumber Ex
ROCHESTER—Donohue Bros.
 Frasier, William C.
ST. CLOUD—Kreatz, F. E. (Sewer, etc.)
ST. PAUL—Brayton Engineering Co., New York
 Life bldg
 Butler Bros. Construction Co. (Railroad,
 Masonry, Dock, Bridge, Harbor, Sewer,
 etc.), N. Y. Life bldg
 Cameron & Co., 383 St. Peter
 Carlson, J. M., 227 W 5th
 Dale & Baumgardner (Grading, Railroad,
 etc.), Scandinavian-American Bank bldg
 Daly, E. J., 38 W Lawson
 Deeks & Deeks (General), National G. A.
 Bank bldg
 Fielding & Shepley (Sewer Grading, Paving
 & Bridge), 216 W University av
 Foey Bros. (Railroad, etc.), Gilfillan blk
 Forrestal, James (General N. Y. Life bldg
 Frankman Bros. & Morris (General), Globe
 bldg
 Grant, G. J. (General), New York Life bldg
 Guthrie, A. & Co., German-Am. Bank bldg

Hennessy, P. M. Construction Co. (Paving,
 Sewer, etc.), 205 New York Life bldg
 Johnson, E. J., 902 Thomas
 Lind, John (Sewer, etc.), 34 E 2d
 Moore, David W. (Sewer & Public), 902
 Edmund
 Newman & Hoy, Cham. of Com. bldg
 Oakes, Geo. W. & Co., Endicott bldg
 Preston, W. J. (Sewer, etc.), 1187 Selby av
 Ryan & Johnson (Sewer, Grading & Rail-
 road), Scan.-Amer. Bank bldg
 St. Paul Contracting Co., German Life bldg
 Siems & Shields, German-Amer. Bank bldg
 Smith, Grant & Co., Gilfillan blk
 Tereau, Frank (Sewer), 665 Pine
 Tyllia, M. J. (Grading), 2108 Grand av
ST. PETER—Brogen, Thomas (Excavating &
 Public)
STILLWATER—Olson, O. H. (Public Work)
 Thoreen & Sandeer

MISSISSIPPI.

MERIDIAN—Krebs, A. J. & Co.
VICKSBURG—Gregory, T. S. (General)
 Helgason Bros. (River)

MISSOURI.

CARTHAGE—McNerney Bros.
JEFFERSON CITY—Kolkmeier, W. H. & Co.
 (Macadam, Rip Rap, Street & Quarrymen)
JOPLIN—Bane & Helm
 Dieter & Wenzel
 Joplin Construction Co. (Sewer, Paving &
 Public)
 Koehler, A. F.
KANSAS CITY—Arrowhead General Contract-
 ing Co., 116 W 8th
 Boyd, Robert J. & W. M. Construction Co.
 (Paving, etc.), 200 S W boul
 Bradbury, E. H. (Grading, etc.), Sheidley
 bldg
 Brown, Geo. L. & Son (General), Amer.
 Bank bldg
 Clark, O. Everett Co., Post bldg
 Clark & Williams (General), Bryant bldg
 Corcoran, Jas. G. & Co., Baird bldg
 Crebo Construction Co., 1109 McGee
 Crites, Fred. H., 507 Temple blk
 Ettwein, C. F., Postal Tel. bldg
 Freeborn Engineering & Construction Co.
 (Heavy Structures a Specialty)
 General Construction Co., Kemper bldg
 Goodlander, George W., Postal Tel. bldg
 Griffin, Geo. H. Construction Co., Postal
 Tel. bldg
 Guthrie, Fairview & Western Construction
 Co., Shukert bldg
 Halpin, James F., New Nelson bldg
 Hampson, J. H., New York Life bldg
 Hamrick, J. D. (Excavating & Grading),
 Postal Tel. bldg
 Hoffman, J. W., Bryant bldg
 Huggins, G. W. (General), Shukert bldg
 International Construction Co., Bryant bldg
 Kahmann & McMurray (General), Bryant
 bldg
 Kenefick-Hammond Co., Bryant bldg
 Kenefick, Wm. Co., Bryant bldg
 Lantry-Sharp Contracting Co., Gumbel bldg
 Latimer & Benning (General), Mass bldg
 Lonsdale Bros. (General), Bryant bldg
 Lynch Construction Co., 14 W Mo. av
 McGee & Co., New York Life bldg
 McTernan-Halpin Construction Co., 27th &
 Walnut
 Mullins, W. C. (Sewer), 3018 E 8th
 Parker-Washington Co. (Paving, etc.), 2309
 Penna
 Pringle, Jos. & Son (General), Shukert bldg
 Santa Fe Construction Co., Ricksecker bldg
 Smith, Lucius J., Bank of Commerce bldg
 Stiver, H. M., Postal Tel. bldg
 Stubbs-Flick-Johnson Construction Co.
 (General), N. Y. Life bldg
 Taylor & Winn (General), Mass. bldg
 Thomas, John D., Postal Tel. bldg
 Union Construction Co., Bryant bldg
 Urban Construction Co., Dwight bldg
 West & Son (Grading, etc.), 3115 Park
 Wilson, David & Co. (Pile Driving, Bridge
 Work, Deep Wells, etc.), Essex bldg
ST. JOSEPH—Buddy, Phil. P., 501 Main
 Kaucher, Frank, 2212 Fred'k av
 St. Joseph Street Construction Co.
 Stamey, T. W. & Son
ST. LOUIS—Abadie, E. H. & Co., 420 Olive
 Abbott-Gamble Co. (Railroad, Waterworks,
 Paving, Sewer, Bridge Maconry, etc.), 620
 Chestnut
 Addis, Jos. T. & Co., 3015 Park av
 Anderson, A. & Co., Victoria bldg
 Anderson Construction Co., Commonwealth
 bldg

Atlantic Quarry & Construction Co., 319 N
 4th
 Atlas Construction Co., Victoria bldg
 Baerveldt, J. F. Contracting Co. (General),
 510 Pine
 Bambrick-Bates Construction Co. (General),
 5229 St. Louis av
 Barwick Construction Co., 4953 McPherson
 av
 Bes Line Construction Co., 201 N 4th
 Black, Albert W. (General), 2107 Clark av
 Black, James, Masonry & Contracting Co.
 (Sewer & Masonry), Commercial bldg
 Bush, W. R. Construction Co., 211 N 7th
 Carmichael, Wm. P. Co., Fullerton bldg
 Carroll Contracting Co., 821 Chestnut
 Cavanagh, Timothy E. (General), 3063 Mad-
 ison
 Dawson, Richard T. & Son, 6011 Columbia
 Denham, William L., 709 Pine
 Dunnivant Construction Co., National Daily
 Elias, Wm., 1111 Pine bldg
 Eyermann, G. & Bro., 1216 S Grand av
 Farrell, Jas. Construction Co., 812 Chestnut
 Fruin-Bambrick Construction Co. (Public &
 Street Work), 721 Olive
 Fruin & Colnon, Laclede bldg
 Fuller, Geo. Co., (Large)
 Gardner, Levi F., 6010 Suburban av
 Gatlin, James G., 4037 Greer av
 Geisel Construction Co. (Sewer, Paving,
 Bridges, Heavy Masonry, etc.), 620 Chest-
 nut
 Globe Construction Co., 721 Olive
 Goodrich & Son (General), 3210 Franklin av
 Gruetzmacher, H. F. & Co. (Stone & Ma-
 sonry), 105 N 7th
 Hanick Quarry & Construction Co., Euclid
 & Lorraine
 Hartman Bricklaying & Contracting Co.,
 1810 Lynch
 Heman Construction Co. (Sewer & Public),
 Fullerton bldg
 Heman, Harry F. (Sewer & Public), 721
 Olive
 Hennebique Construction Co., Chemical bldg
 Henning & Jahnichen, Benoist bldg
 Hetz, Benjamin, 3342 Salena
 Hill-O'Meara Construction Co. (Sewer, Pav-
 ing, Waterwork & Masonry), Wainwright
 bldg
 Hinchman-Renton Construction Co., 211 N
 Hogan, Thomas F., 2712 Wyandotte
 7th
 Kellerman Contracting Co., Roe bldg
 Kennah, L. J. & Son, 202 N 9th
 Kohn, Nathan, 721 Olive
 Lohrum, Mrs. Jno. A. (General), 4000 S
 Main
 McClure, R. P. Construction Co., 203 N 10th
 McCormack, Charles B. (Builder), 715 Locust
 McCully Construction Co., 509 Chestnut
 McKelvey Cons. Co. (General), 816 Olive
 McMahon, John F., Wainwright bldg
 Midland Contracting Co. (General), Houser
 bldg
 Milburn, White & Weyer, Mechanics Na-
 tional Bank bldg
 Missouri Granite & Construction Co., 3410
 Gratiot
 Missouri & South Eastern Construction Co.,
 904 Olive
 Morey Eng. & Construction Co., 721 Olive
 Morrison, R. W. Constructing Co. (Large
 Builders), 112 N 8th
 Mound City Construction Co. (Paving, Sewer
 & Bridge Masonry), Lincoln Trust bldg
 Muir, Matthew W. (Builder), 816 Olive
 Murch Bros. Construction Co. (Builders),
 816 Olive
 Murphy, Dan, 4240 Prairie av
 Myers Construction Co. (General), 421
 Olive
 National Construction & Supply Co., Se-
 curity bldg
 Parker-Washington Co., 4500 Duncan av
 Pelligreen, Nicholas, 816 Pine
 Perkinson Bros. Construction Co. (Telford
 & Public), 3237 Carter av
 Prendergast Contracting Co., 308 N 6th
 Prendergast, Geo. G. Construction Co., 721
 Olive
 Reinschmidt-Haenni Construction Co., 906
 Olive
 Rich Construction Co. (General), 510 Pine
 Riechers, J. P. & Son, 2815 St. Louis av
 Robinson, S. H. R., Chemical bldg
 Rosedale Contracting & Supply Co., Hodia-
 mont av c Cates av
 Ruecking, H. & Co. (Public Works), Marine
 av c Gasconade
 Rupp, Jos. F., 1901 E Warne av
 Ruprecht, W. & F., 8011 S B'way
 Sauerbrunn Construction Co. (General), 612
 Chestnut
 Scott, Jno. & Sons, 1200 S Ewing av
 Selden-Breck Construction Co., Fullerton
 bldg

NEW JERSEY.

Settle, J. C. Construction Co., Chemical bldg
 Sinclair Quarry & Construction Co., Fullerton bldg
 Skrainka Construction Co. (Sewer, Masonry & Public), 319 N 4th
 Southern Illinois Construction Co., Victoria bldg
 Steininger, Edw. A. Cons. Co., 816 Olive
STEWART, JAMES & CO. (Harbor, Marine & Heavy Buildings), Lincoln Trust bldg
 Stifel, P. F. (Heavy Masonry), 2324 Kosciusko
 Sutherland, W. M. (Builder), Victoria bldg
 Taxis-Harvey Construction Co., Victoria bldg
 Thompson, J. W. (Bridge Masonry, etc.), Wainwright bldg
 U. S. Conduit & Construction Co., Victoria bldg
 Van Sant, Robert L. (Eng. & Contractor), Third National Bank bldg
 Wade Bros. Construction Co. (General), 2272 Old Manchester rd
 Ward, Edw. (Builder), Chemical bldg
 Ware, J. A. Construction Co., 509 Chestnut
 Webb-Kunze Cons. Co., Fullerton bldg
 Westlake Construction Co., Mercantile bldg
 Wright-Gallagher Construction Co., Chemical
 Wyatt & Donovan, 119 N 7th bldg
SPRINGFIELD—Crossen-Badge Construction Co. (Heavy Masonry, etc.)
 Gist, George W. Construction Co.
 Hedges Construction Co.
 Jarrett Construction Co.
 Weaver-Weeks Construction Co. (Heavy Masonry, etc.)
 Willier Construction Co., Grading, etc.)

MONTANA.

BUTTE—Hughes, Nicholas
 O'Brien, William A.
 Sewell, W. J.
 Walsch, E. W.
 Winters, Parsons & Boomer
HELENA—Fiske, E. W.
 Pew & Dryburg
 Wagner, Edward

NEBRASKA.

BEATRICE—Kilpatrick Bros.
LINCOLN—Capital City Brick & Pipe Co.
 Sheely, Chas. G. (Bridge, Irrigation, Paving, Piling, etc.)
 Stephens, H. A.
OMAHA—Callahan Bros., Phelan & Shirley
 Callahan Bros. & Katz (Grading), Ramge bldg
 Creedon, P. J. & Sons, 2120 California
 Hamiltou, R. P. & E. O. (General)
 Harte, J. H. (General), 1609 Webster
 McWilliams Construction Co., Paxton blk
 Maier, W. S. (General), Paxton blk
 Mardis, W. L. (General), 1402 N 25th
 Murphy, Hugh (Municipal Work, etc.), Bee
 Mutz, George W., 2420 Grant bldg
 Newman & Johnson (General), N. Y. Life bldg
 Nebraska Bitulithic Co. (Paving), Bee bldg
 Owen & Lovelace Contracting Co., 20 Barker pl
 Parks, Johnson & Parks Construction Co., First National Bank bldg
 Parsons & Keine, New York Life bldg
 Partridge, C. W., Paxton blk
 Petersen, Walter (General), U. S. Nat'l Bank bldg
 Strehlow, R. C., 2102 Sherman av
 Van Court, E. D., 1020 N 16th
 Wood & Bancroft (Grading), 1st Nat'l Bank bldg
 Woodworth, C. D. & Co., Karback blk
SOUTH OMAHA—Hannan, D. (Grading, etc.)
 Parks, Johnson & Parks

NEVADA.

GOLDFIELD—Esmeralda Sewerage & Improvement Co.
RENO—Burke Bros. (Public Work)

NEW HAMPSHIRE.

BERLIN—Gilbert, J. B.
CONCORD—Fellows, Chas. L. & Co. (Grading, etc.)
DOVER—Cornell, John (Sewers, Dams, etc.)
NASHUA—Dunklee, L. P. & Son (Sewer, etc.)
 Osgood Construction Co. (Waterworks, Sewer, etc.)
PORTSMOUTH—Holmes, J. R. (Sewer, Road, Newton, Frank S. Co. (Sewer, etc.) etc.)
 Smart, W. Gay (Sewer, etc.)
 Trefethen, E. W. (Sewer, etc.)

ATLANTIC CITY—Knauer Co., 132 S New York
 Lee, Edward S.
BAYONNE—Brady Bros. (Large), Av E & E 22d
 Clynes, W. Knight Co. (Heavy Masonry, Railroad, etc.), Av E & 33d
 Cogan, James J., 98 Av C
 Ryan, William C. (Sewer, etc.), 46 W 41st
 Stringham, M. V., W 7th & Av C
BLOOMFIELD—Ashley, Hubert J., 161 Ashland av
CAMDEN—Sweeten, B. F. & Son (Paving & Public), Cooper c Delaware
EAST NEWARK—Van Keuren & Son
EAST ORANGE—Gunn, John & Son
 Hamblin, A. P. Construction Co.
 Watson, George H.
ELIZABETH—Clark Bros. (Excavating), 1020
 Dolan, John F., 636 Salem av William
 Ellbacher, Chas. (Building & Cement Work, etc.), 32 4th
 Faughnau, Patrick (Sewer, Macadam, etc.), 516 Washington av
 La Corte, Nicola & Co. (Excavating & Grading, etc.), 640 3d av
 Lammerding-Devine Co. (General), 227 Broad
 Lott, George G. (Excavating, Grading, etc.), 417 Rose Hill pl
 McCloud, Wm. J. & Co. (General), 114 Broad
 New Jersey Dock & Bridge Building Co. (Harbor Improvements, etc.), 208 Broad
 Wade, Matthew (Excavating & Grading), 332 South
ENGLEWOOD—Brucker, Charles Contracting
HACKENSACK—Beaudey, A. C. Co. (Road)
 Garrison, S. B.
HOBOKEN—Catello, M.
 Kruger, C. H. & Son, 610 Park av
 Leveuson, Morris, 1500 Willow
 Linder, Philip (Excavating, etc.), 624 Monroe
 Sanford, A. E. Co., Second National Bank bldg
 Scottura, Frank
 Waddington, Robert & Son (Street & Public), 617 Jefferson
 Whalen, James
 Whan, Alexander, 1317 Garden
JERSEY CITY—Atkinson, G. H. & Co., 76 Montgomery
 Baker, Wm. (Sewer, Paving, etc.), 137 South
 Byrne, Henry (Public Work), 392 Mercer
 Connolly, M. T. Contracting Co. (Curbing & Public), 238 17th
 Conelly, P. (General), 13 E Hamilton pl
 Cummings, Wm. F., 534 Mercer
 Cutley, Joseph H., 508 Pavonia av
 Harrington, T. & Sons, 558 Montgomery
 Henry & McGivney, 15 Exchange pl
 Holmes & Cogan, 96 Garfield av
 Hudson Construction Co., 641 Grove
 Keiss, Geo. (Excavating, etc.), 17 Rutger av
 Kuederly, Charles, 319 Communipaw av
 Leshner & Wagner, 114 Pavonia
 O'Neill, Edward P., 37 Concord
 Palisade Construction Co., 15 Exch. pl
 Robertson, William & Son, 15 Exchange pl
 Ross, P. Sanford (River & Harbor), 277 Wash'n
 Shanley, B. M. & J. F. Co. (R. R. & Public), 26 Exchange pl
 Stillman, F. M. Co., 26 Exchange pl
 Tierney & Connolly Construction Co., 226
 Tumulty Bros., 59 Brunswick Pavonia av
 United Contractors Corporation (Building & General), 15 Exchange pl
 Van Keuren & Son, Grand c Prior
KEARNY—(See Arlington)
MONTCLAIR—Ceston, P., 25 Talbot
 Gibbs, Fred W.
 Osborne & Marsellis Co., Public Work & Macadam, Bellevue av
MORRISTOWN—Foster, E. L. (Excavating, etc.)
 New Jersey Engineering & Construction Co.
NEWARK—Ballard, Wm., 279 Runyon av
 Conway, Jas. (Sewer, etc.), 491 Central av
 Cullen, W. A. (R. R., etc.), 262 5th
 Dey & Sutphen, 14 Herbert pl
 Dickson, Henry, 22 Clinton
 Doriety, John, 168 Ridge
 Harrison Construction Co. (Public Work), Hedden, V. J. & Sons 837 Broad
 Lanning, J. W. & Son, 122 Market
 Midland Contracting Co., Union bldg
 Miller, C. Co. (Excavating, etc.), 113 High
 Murray, John F., 117 Camden
 Peter, Jacob, 127 Frelinghuysen
 Shanley, B. M. & J. F. Co. (R. R. and Public), 359 Broad
 Vanderhoof, Peter & Sons Co., 285 Broad
 Van Keuren & Son, Kearny
 Waldron, E. M. & Co., 84 S 6th

NEW BRUNSWICK—Oliver, H. V. Const. Co.
 Riddle, T. H. Construction Co. (Public Work)
ORANGE—Dexheimer, P. & Son, 61 Day
 Kearns, Patrick
 O'Connor, Jas. & Son, 68 Central pl
 Wright & Lindsey (Telford & Public)
PATERSON—Ferguson, Jno. W. Co. (Builders, etc.), United Bank bldg
 Lee, Jno. R. (& R. R.), Secoud National Bank bldg
 Lynch Coustruction Co., 1247 Madison av
 McKiernan & Bergin, First National Bank bldg
 Montgomery, James (Excavating, Grading, etc.), 224 Wayne av
PERTH AMBOY—Crouse Constructiou Co.
 Graham & McKeon
 Hanson, M. (Excavating)
PHILLIPSBURG—Mutchler, S. B. & Co.
RIDGEFIELD—Heisenbottle, C. (Excavating, Grading, etc.)
SOMERVILLE—Hardgrove, Wm. (Macadam & Public)
SOUTH ORANGE—Batt, Ludwig (Street & Public)
 Kernan, Richard
TOWN OF UNION—(See Weehawken)
TRENTON—Allen, Geo. S. (Sewer & Public), 295 Spring
 Bugbee, Newton A. K., 135 E State
 Caldwell, J. S., 811 Edgewood av
 Delaware River Quarry & Construction Co. (Road Construction, Railroad, etc.), 25 Tucker
 Hurley, Jno. H. (Sewer, etc.), 153 W Front
 Hurley, Michael (Public Work), 512 Perry
 Lawton, Lewis & Son (Masonry & Public), Broad Street Bank bldg
 McGovern Cons. Co. (General)
 McGovern, T. J., 323 Brunswick av
 Ross, Jas. (Sewer & Excavating), 332 Southard
WEEHAWKEN—Callery & Murphy (Sewer & Public)
 Roman, Geo. (General, etc.)
 Weehawken Contracting Co.
WEST HOBOKEN—Capone & Trost
 Schneider, Henry M.
 Uatcky, Henry, 8 Traphagen
WEST ORANGE—Kocher, Charles
 O'Rourke, John

NEW MEXICO.

ESTANCIA—Michael, Charles E.

NEW YORK.

ALBANY—Callahan Road Improvement Co. (Road & Paving), 25 N Pearl
 Clemence Construction Co., N Lake av & Elk
 Collins Bros., Bensen bldg
 Dollard-Clark Construction Co., Patroon
 Dollard, M. F., 30 S Pearl Island
 Fort Orange Construction Co., 112 State
 Hudson Valley Construction Co., 42 N Pearl
 Kantrowitz, Morris (Building & General), 78 State
 Kearns, W. F. & Co., B'way & Tivoli
 McDonough, Chas. J., 475 Hudson av
 Mulderry Bros. (Street & Public), 115 1st
 Pasquini, Attilio (General), Bensen bldg
 Randerson, John P. (Public Work), 755 Madison av
 Remington-Macomber Co. (Builders, etc.), 25 N Pearl
 Stockwell, U. G. (Sewer & Paving), Tweedle bldg
 United Construction Co., 467 B'way
 Van Buren, E. (Excavating), 135 Quail
 Wasserbach, J. C., 10 Warren
AMSTERDAM—Grieme, H. C., Erie & Creek
 Turner, John J. (Building & Public)
AUBURN—Smith, Carlson E. (Public Work)
BINGHAMTON—Ackerman, C. H., Ackerman
 Cray Construction Co. bldg
BUFFALO—Allison, John W. Co., 121 Franklin
 Bailey, Johnson & Saunders (Inc.), 1 Chaplin blk
 Baldwin Contracting Co., Ellicott sq
 Bardol, Frank V. (General), D. S. Morgan bldg
 Berrick's, Chas. Sons (Masonry & Building), 1151 Main
 Boardman, W. C. (General), 50 St. Paul
 Brown, Thos. Contracting Co. (General), 1135 Niagara
 Buffalo Dredging Co., D. S. Morgan bldg
 Buffalo General Bldg. Co., Moselle & Urban
 Burgard, Henry P. Co. (Sewer & Public), 560 Walden av
 Burke, Wm. H. & Bro., 426 S Park av
 Canal Quarry Co., Ellicott sq
 Carter, Geo. W. & Sons Co. (General), Builders' Ex

Chapman, A. F. & Co. (General), Prudential bldg
 Continental Engineering & Construction Co., Morgan blk
 Dark & Co. (Sewer & Public & Building), 654 Main
 Donnelly, J. B. & Wm. P., Cham. of Com.
 Dwyer, J. W. & Son, Ellicott sq
 Erie Construction Co., Ellicott sq
 Essex Construction Co., Prudential bldg
 Fitzpatrick, Wm. H., 36 Seneca Parkside
 Gibbons, J. G. & C. L., 1069 Niagara
 Gilbert, Edwin & Co., Chapin bldg
 Goldman, John (Excavating), 260 Gullford
 Grattan Construction Co., Ellicott sq
 Grattan & Lattimer, ft of Main
 Grattan & Tiffany, Ellicott sq
 Great Lakes Construction Co., Chamber of Com.
 Harryman-Hitchcock Co., Brisbane bldg
 Harty, John P. & Sons, 344 Niagara
 Horton, D. E. (General), 52 Exchange
 Hyde-McFarlin Co. (Railroad & General), 2342 Seneca
 Iroquois Construction Co., Fidelity bldg
 Jones, F. P. & Co., Erie County Bank bldg
 Kempf's, Geo. Sons, 99 Locust
 Knickenberg, Fred'k W. (General), 704 Michigan
 Lake Erie Dredging Co., D. S. Morgan bldg
 Lanctot, H. H. & Sons, Ellicott sq
 La Spisa & Bro., 172 Georgia
 Ledwin, Geo. (General), 266 Bristol
 Leh, Jeremiah H. (Dock & Pile), 52 Exchange
 Lenz, H. & Son, 802 Genesee
 Link, Henry J. (Excavating), 693 E Utica
 Long, Geo. Baker, Marine bldg
 Lynch, John J. (Excavating, Grading, etc.), 216 Front av
 McDonough, Chas., 734 Exchange
 Maltby, Geo. W. & Sons, 21 Maryland
 Mason, Henry S., Ellicott sq
 Metz Bros., 334 Landon
 Miller, Jno. (Sewer, Macadam, Paving & Heavy Masonry), 802 Ellicott sq
 Moore, Geo. W. (Sewer & Public), 177 Elk
 Morris & Allan (General), 362 Ellicott sq
 Mosier & Summers (General), 1266 Seneca
 Myers, L. E. Co., Ellicott sq
 Niagara Construction Co., Fidelity bldg
 *Niederspruem-Gibbs & Schaaf Co., D. S. Morgan bldg
 Notley, J. R. Contracting Co., 29 Burwell pl
 Parks, Geo. & Sons (General), 217 15th
 Post, Alfred H. & Co., Prudential bldg
 Rappich & Culliton (Excavating, etc.), 2293 Main
 Rumrill, E. C. (General), Ellicott sq
 Savage, Lawrence & Co., Ellicott sq
 Schaaf, George, 547 E Utica
 Schutrum, C. L. & Co., Coal & Iron Ex.
 Seibert, Robert, D. S. Morgan bldg
 Sherrill Contracting Co., The Berkeley
 Sherrill, C. L., D. S. Morgan bldg
 Smith, Wm. G. (General), 452 Auburn av
 Stabell, Jos. F. (General), 1127 Niagara
 Stokes Bros. (General), Brisbane bldg
 Tilden, J. H. Co. (General), 12 Henry
 Vosseller, Geo. (Excavating), 110 Bradley
 Williams, Chas. Hoyt, Fidelity bldg
 CATSKILL—Holdridge, G. W. (Street)
 COHOES—Neary, J. H. & T. W.
 O'Dea, Thomas
 CORNING—Bradley, J. C.
 Ferenbaugh, U. G.
 CORTLAND—Bull, J. S. (Gas Works, Water Works, Telegraph Lines & R. R.)
 DUNKIRK—Hamilton, S. M. Co. (General)
 Meister, P. & Son
 Walter, Gustave A.
 ELMIRA—Costello & Neagle (Paving, Sewer, Pulford & Dempsey etc.)
 GENEVA—McArthur Bros.
 Persons, S. F. & Co.
 GLENS FALLS—Finch-Anderson Co.
 GLOVERSVILLE—Banker, A. M. (Paving, etc.)
 HORNELL—Tucker, Seth L.
 HUDSON—Brennan, John F. (Builders & Public)
 Hester, Dennis
 JAMESTOWN—Johnson & Prather
 Mahoney, John F.
 Swanson, Charles (Public Work)
 KINGSTON—Campbell & Dempsey (Public Work & Masonry)
 McNamee & Rice, Rondout
 O'Reilly, John (Street & Sewer)
 LITTLE FALLS—Dale's, Thos. Sons (General)
 Eagan, Chas. (General)
 Hallinan Bros. (General)
 McCaghey, P. B. Co.
 LOCKPORT—Le Valley, Frank J. (Sewer, Excavating, etc.)
 Moon, John
 Stainthorpe, Charles N. & Co.
 MAMARONECK—Coles, Selleck E.

MEDINA—Slack & Ellis
 MOUNT VERNON—Dooling & Kenlon Co.
 Piro, James, 36 N 4th av
 NEWBURGH—Dwyer & Sager (General)
 Parrott, Wm. (Dock & River), 178 Wash'n
 NEW ROCHELLE—Eckstein, Gustave
 Galgano Bros.
 Pioneer Contracting Co.
 Smith, Thomas & Co.

NEW YORK CITY. Borough of Brooklyn.

BROOKLYN—Allen, John H., 864 Fulton
 Ackerson, T. B. Construction Co., 297 E 15th
 Armstrong, Henry, Malbone c Rogers av
 Bedford Construction Co., 44 Court
 Bonagura, S., 1815 Eastern Parkway
 Borough Construction Co., 44 Court
 Bracken-McAveney Co., ft 6th
 Bulkey, Washington, 98 Emerson pl
 Campbell, James J., 284 Moffat
 Campbell, John M., 157 Spencer
 Carlin, F. W. Construction Co. (Builders, etc.), 26 Court
 Carlin, P. J. & Co. (Building & Public), 26 Court
 Cashman, John J., 44 Court
 Chapman & Ryan, 35 Lincoln pl
 Cranford, Chas., Foster av
 Cranford Co., 52 9th
 Cranford & McNamee, Flatbush av
 Cronin, Barth S. (Public Work), 573 Clinton
 Cunningham Bros. (Excavating, etc.), 24 Emmett
 Dady, M. J. Co. (Public Work), 350 Fulton
 Desmond Bros. (Public Work), 449 Columbia
 Donlon, Thos. F., 1576 Pacific av
 Eastern Construction Co. (Contractors, Erectors & Riggers), 52 Classon av
 Furcy, Robert (Public Work), 186 Remsen
 Gabagen, W. H. (Land Reclamation, Steam Shovel Work, Dredging, etc.), 189 Montague
 Gallagher, Frank J., 490 Park pl
 Haley & Keegan, 50 Dobbin
 Harris, Isaac (Paving, Sewer & Public), 485 Flatbush av
 Hart, Charles (Public Work), 617 Degraw
 Hickey, John J., 253 8th
 Jenkins, Theo. S., 44 Court
 Kelly, Thos., Oakland nr East New York av
 Kordes, Hy. E., 243 Moffat
 Kosmos Engineering Co., 25 Adams
 Lake, W. B., 2 Lake pl
 McCormick, Thos., 810 Lincoln rd
 McKeever, Edw. J. & S. W. (Public Work), 367 Fulton
 McNamee, John (Public Work), 16 Court
 MacArthur, Jas., 22 Ormond pl
 Maillie, Jno. F. (Paving & Public), 1253
 Miller, Luke, 80th n 7th av Prospect pl
 Monahan, John E., 496 Manhattan av
 Monahan, T. & Sons, 3d st
 Morrissey, Richard, 1458 Bushwick av
 Mulligan, George, 116 West
 Murray, P. J. & Co. (Sewer, Large), 215 Montague
 Newman Construction Co., 1127 Willoughby
 Nolan, William, 113 4th pl
 Norton & Gorman (Public Work), 301 Douglass
 Pfau, Philip (Sewer & Public), 537 52d
 Pruden, Charles L., 26 Court
 Purcell, Jas., 79th nr 4th av
 Rapid Transit Subway Construction Co., 350
 Riley, James, 601 Degraw
 Ryan, N. Co., 489 Smith
 Schubert, Bernard, 155 Jamaica av
 Seaboard Construction Co., 639 Gates av
 Sigretto & Mannino Co., 215 Montague
 Simpson, Wm., 14 Emerson pl
 Spence Bros. (Builders, etc.), 5201 3d av
 Stone, A. G. (Factories), 44 Court
 Strype, Richard, 40 Coffey
 Thatcher, Jno. & Son, 54 Park av
 Unique Construction Co., 291 3d av
 Vofrei & O'Hearn, 427 40th
 Walsh Bros., 76th nr 21st av
 Walsh, Frank M., 374 Hamilton av
 Wilson & Baillie Mfg. Co., 85 9th

Boroughs of Manhattan & Bronx

NEW YORK—ABBOTT-GAMBLE CO.
 (R. R. Sewer, Paving, Waterworks, Bridge Masonry, etc.), 32 B'way
 Acme Water Storage & Construction Co., 17 Park Row
 Altieri, Jerry (Excavating, etc.), 1567 Fulton av

Atlantic Dredging Co., 25 Whitehall
 Atlantic Gulf & Pacific Co., 17 Park row
 Baird, Matthew, Contracting Co. (Public Work), 433 E 92d
 Baker, W. E. & Co., 27 William
 Baldwin Engineering Co., 107 W 17th
 Bartlett, Hayward & Co., 100 B'way
 Baxter, Wm. C., 116 Brown av, Van Nest
 Beaver Construction Co., 22 William
 Bell Engineering & Construction Co., 220 B'way
 Bellman & Sanford (Engineers & Contractors), 149 B'way
 Berlin Construction Co., 220 B'way
 Booth Bros. & Hurricane Isle Granite Co. (Paving), 207 B'way
 Bouker Contracting Co., 24 State
 Bradley, Wm. (Public Work), Delancey & Briggs, Jas. M., 17 Battery pl Clinton
 Brooks, Wm. Son Co. (Excavating, etc.), 615 W 49th
 Brown, Isaac T. (Dredging, River & Harbor), 18 B'way
 Brown & Fleming Contracting Co., 129 Broad
 Bundick, John S. (Submarine Contractor, Drilling Foundations, etc.), 49 South
 Butler Bros. Construction Co., Depew pl
 Butler Bros. Hoff Co., 1170 B'way 43d
 Callahan, Wm. H., Parker av, Westchester
 Carlin, P. J. Construction Co. (Builders & General Contractors), 1 Madison av
 Catoggio Bros., 63 Grand
 Chamberlin, A. B. & Co., 26 Cortlandt
 Chapman, F. H., 43 Cedar
 Chaquette Dredging & Contracting Co., 25 Broad
 Church Construction Co., 949 B'way
 Cipolla, Carmine, 2d av & 213th
 Clark & Co. (Public Work, Railroad, etc.), 100 B'way
 Climax Construction Co., 42 B'way
 Collins, Chas. W. (Sewer & Public), Morris av c Fordham rd
 Conradi Co., 232 E 42d
 Consolidated Engineering & Construction Co., 140 Nassau
 Consolidated Telegraph & Electrical Subway Co. (Subway, etc.), 52 Duane
 Cosgrove Bros., 620 W 57th
 Coverdale, W. H. & Co. (Engineers & Contractors), 66 B'way
 Cowen, Chas. A. & Co., 1123 B'way
 Cranwell Construction Co., E 138th nr Mott av
 Crimmins, Thos. Contracting Co. (Municipal & Public), 440 E 69th
 Cuff, Wm. (Excavations), 426 E 104th
 Culgin-Pace Contr'g Co., 787 Tremont av
 Cullen, W. A. Construction Co. (Railroad), 25 Broad
 Cunningham, T. Co. (Sewer & Public), 608 E 15th
 Cunningham & Kearns, 438 E 91st
 Cuozzo, D. & Bro. (Railroad, etc.), 150 Nassau
 Curran, Thos. Contracting Co., 1119 1st av
 Darling, Oscar, 17 Park row
 Davis Contracting Co., 64 Monroe
 Degnon Contracting Co. (Public & Marine), 60 Wall
 Deisler & Stevenson (Masons & General), 1133 B'way
 DePasquale, S. M. Williamsbridge
 Dorgan Bros., 413 E 65th
 Dredging & Filling Co., 45 B'way
 Du Bois Bros. Dredging Co., 19 Whitehall
 Duffy, James J., 533 W 24th
 Dunn, Bart (Sewer & Public), 444 E 68th
 Dunn, F. C. & Co. (Inc.) (Railroads, etc.), 41 Wall
 Eastern Construction Co., 1 W 34th
 Eidlitz, Marc & Son (Builders), 489 5th av
 Empire City Subway Co. (Ltd.) (Subway, etc.), 422 W 58th
 Empire Eng. Corporation, 111 B'way
 Empire Paving & Construction Co. (Paving, etc.), 1931 B'way
 Falk, Frank, 2371 Old B'way
 Farrell, E. J. & Co., 2105 7th av
 Farrell, Hopper & Co. (Masonry, R. R. Tunneling, Dock, Bridge, etc.), 2105 7th
 Federal Contracting Co., 5 Nassau av
 Ferguson Contracting Co. (Railroad & Public), 69 Wall
 Ferguson, John W. Co. (Factories, Mills, etc.), 253 B'way
 Figliuolo, J., 719 Union av
 Finn, Patrick W., 163 Columbus av
 Fleischmann Realty & Construction Co., 170 B'way
 FLEMING & CO. (Stable & Paving), 123 Liberty. (See adv. index, end of book)

Fogarty, Patrick (General), 407 E 58th
 Ford, I. H. (Artesian Wells), 104 Fulton
 Foundation Co. (Engineers & Contractors,
 Caisson & Bridge Foundations, Sea Walls,
 Excavations, Tunnels, Mine Shafts, etc.),
 35 Nassau
 Fountain & Choate (Building, etc.), 110 E
 Franklin Contracting Co., 1 Hudson 23d
 Fruin-Bambrick Paving Co. (Public &
 Street), 114 Liberty
 Fuller, Geo. A. Co. (Builders, etc.), Fuller
 Gallagher & Co., 459 Lenox av bldg
 Gallick, Jos., 1682 1st av
 Gamble, James Contract Co. (Canal, Gas
 House, R. R. & Public), 15 William
 Garry, Joseph & Son (Public Work), 416 E
 25th
 General Contracting & Engineering Co.
 (Railroads, Piers, Docks, Bulkheads &
 Harbor Improvements), 15 Whitehall
 General Supply & Construction Co. (Build-
 ers, & Government Work), 24 State
 Gerstle, Ralph J. F. Co., 347 E 44th
 Gest, Guy M., 277 B'way
 Gilbreth, Frank B. (Large), 34 W 26th
 Gillespie, Michael H., 1133 B'way
 Gillespie, T. A. Co. (Public & Waterworks),
 Glass, Jno., Jr., 335 W 14th 71 B'way
 Goble, Frank M., 1 E 42d
 Godwiu Construction Co. (Harbor Improve-
 ments), 60 Wall
 Goodman, Patrick (Water, Gas & Drainage),
 552 E 135th
 Greer, Thomas A., 537 E 13th
 *Guarantee Construction Co. (General &
 Railroad), 72 Trinity pl
 Halligan & Son (Excavating), 549 W 40th
 Handibode, Peter, Jr. (Sewer & Public),
 Hannan, P. G., 10 Arthur Unionport
 Harlem Contracting Co., 41 Wall
 Hart, B. F., Jr., & Co., 143 Liberty
 Hart, Jas. A. Co., 256 B'way
 Hedden, V. J. & Sons Co. (Building), 1
 Helbock, C., 633 Wales av Madison av
 Hennebique Construction Co., 1123 B'way
 Hickey Contracting Co., 250 W 61st
 Holland & Co. (Public & Municipal), 493 W
 B'way
 Holmes Bros. (Underwriters' Work), 265
 B'way
 Hood, R. H. Company (Building, Water-
 works & General), 299 B'way
 Hopper, Isaac A. & Son (Building & Pub-
 lic), 1170 B'way
 Hopper, Jno. J., 215 W 125th
 Horn Construction & Supply Co., 26 Cort-
 landt
 Hough, J. W., 7th av & W 151st
 Hudson Contracting Co., 27 William
 Hudson Engineering & Contracting Co., 92
 William
 Hudson Improvement Co., 62 Cedar
 Hughes Bros. & Bangs (River & Harbor Ma-
 sonry, etc.), 5 Nassau
 Independent Engineering Co., 42 B'way
 International Contracting Co., 17 Battery pl
 International Engineering Corp., 11 B'way
 Inter-State Dredging Co., 17 Battery pl
 Inter-State Engineering Co., 80 Wall
 Jackson Bros. Construction Co., 141 B'way
 Jackson & Sharp Co., 25 Broad
 Jenks, Edw. B. Co. (Dock & Harbor), 143
 Liberty
 Jenks, William H. (Harbor & Dock), 129
 Pearl
 Kane, M. & Sons (Excavating, etc.), 31
 Kearns, P. J., 438 E 91st Perry
 Kelly, Anthony, 217 W 125th
 Kennedy & Carmina, 81 Barclay
 Leahy, Michael J. (Sewer & Public), 1446
 Levenson, M., 192 Bowery Prospect av
 Lipps, Henry, Jr. (Sewer & Public), 115 El-
 liott av, Williamsbridge
 Lyons, Jeremiah C. Building & Operating
 Co. (Builders), 4 E 42d
 McBean, D. D., 17 Park row
 McCabe, Chas. F. Co., Southern Boulevard
 & 139th
 McCaul, Thos. F. Contracting Co., 2367 3d
 McDonald, John B., 90 West
 McDonald & Ouderdonk (Public Work), 2906
 Jerome av
 McHarg, Leslie & Co., 299 B'way
 McGuire, Jas. C. & Co., 26 Cortlandt
 McLaughlin, Thos. F., 346 E 81st
 McMullen, Arthur & Co. (Pneumatic Cais-
 son Foundations, Bridge, Trestle, Docks,
 etc.), 15 Park Row
 McMullen & McDermott, 17 Park row
 McMullen, Weand & McDermott, 21 Park
 Row
 McNiece, David J. (Public Works), 128
 McNulty, Geo. W., 299 B'way B'way

McQuade, John J. (Public Works), 311 St.
 Anns av
 McQuillan, Bernard (Public Work), 437 E
 65th
 MacArthur Bros. Co. (Heavy Buildings,
 etc.), 11 Pine
 Macdonald, Chas., 2 Wall
 Mack Paving Co. (Paving), 114 Liberty
 Madden Bros., 8 W 145th
 Mallett, W. A. Co., Westchester
 Markenfield Construction Co., B'way & 111th
 Marmac Construction Co., 1286 B'way
 Marrin, E. & J., 520 E 18th
 Marrone, Michael, 414 E 116th
 Masterson & Vermilye (Paving & Public),
 Westchester
 Matthews, Edw. A., 17 Park row
 May & Jekyll, 1 Madison av
 Mechanics Construction Co., 210 E 56th
 Merrick Construction Co., 1 B'way
 Metropole Construction Co., 79 5th
 Meyer Contracting Co., 125 E 23d
 Milliken Bros. (Inc.) (Iron & Steel Work),
 11 B'way
 Monks, John & Sons (Dock, Bridge & Har-
 bor), 82 Beaver
 Mooney, Jas. J., 333 E 24th
 Moore, Chas. C. & Co., 26 Cortlandt
 Morich, Paul, 407 E 31st
 Morris & Cummings Dredging Co. (River &
 Harbor), 17 State
 Morton, Chas. & Co., 500 5th av
 Mott Haven Contracting Co., 625 E 134th
 Mulry, Thos. & Son (Excavating, etc.), 541
 W 21st
 Municipal Engineering & Contracting Co.,
 150 Nassau
 Murdock, Harvey, 116 Nassau
 Murphy Bros. (Builders, etc.), 407 E 101st
 Murphy Construction Co., 5 E 42d
 Murphy, J. D. Co. (Builders & General
 contractors), 1181 B'way
 Murray, Wm. J. (Sewer & Public), 147 E
 125th
 Murray & Co. (Trucking, etc.), 259 Av C
 Mutual Construction Co., 52 William
 National Conduit & Cable Co. (Complete
 Subway Systems), 41 Park Row
 Naughton Co. (Railroads, Piers, Tunnels,
 Foundations, Subways, etc.), 299 B'way
 New, T. Construction Co., 518 W 29th
N. Y. CONTINENTAL JEWELL
 Filtration Co. (Government, Municipal,
 Industrial & Railroad Work), 15 Broad
 (See adv. index. end of book)
 New York Contracting Co., 215 W 33d
 New York Filling Co., 17 State
 New York State Construction Co. (Engi-
 neers & Contractors), 78 Broad
 New York Tunnel Co., 45 Wall
 Norcross Bros. & Co. (Builders & Public
 Work), 160 5th av
 North Bros., 1224 S outhernBoulevard
 North Eastern Construction Co. (Engineers
 & Contractors), Fuller bldg
 North Western Construction Co., 30 Broad
 Norton, Patrick (Public Work), 1035 3d av
 Norton & Dalton (Sewer, etc.), 27 W 140th
 O'Brien Bros., 54 South
 O'Leary, Jno., 39 Cortlandt
 Oliver & Burr, I Madison av
 O'Rourke Contracting Co., 26 Nassau
 O'Rourke Engineering Construction Co.
 (Pneumatic & Other Foundations, etc.),
 1 W 34th
 O'Shea Contracting Co., 150 Nassau
 Oxnard Construction Co., 32 Nassau
 Pace, Jno. B., 787 Tremont av
 Pacific Improvement Co. (Railroad Construc-
 tion), 60 Wall
 Packard, Ralph G. Co. (Dredging & Har-
 bor), 130 Pearl
 Parker, John H. Co., 225 4th av
 Pasquini, A., 1123 B'way
 Pearson, S. & Son, ft of E 33d
 Peirce, John Co., 90 West
 Phillips & Worthington (Foundation Boring
 Well, Drilling, etc.), 136 Liberty
 Phoenix Construction & Supply Co., 41 Park
 row
 Piercy, H. C. & A. I. Contracting Co., 422
 Pierson & Goodrich, 231 4th av W 15th
 Pilkington, James (Sewers), Riverside Drive
 nr Depot la
 Pinckney, H. Irvington & Co., 23 Fulton
 Pinckney, E. A., 23 Fulton
 Plymouth Construction Co., 12 W 27th
 Pucci, Antonio G. (Public Work), 340 E
 Qualey, J. S. Co., 29 B'way 109th
 Quinn, W. H. & Co., 103 Chambers
 Rafel, Wm., 65 W 45th
 Rapid Transit Subway Construction Co., 17
 Park row

Reddy, Patrick, Lenox av & W 111th
 Reid, M. & Co., 114 W 39th
 Rendt, Louis B., 78 Broad
 Republic Gen. Contr. Co., 1181 B'way
 Richards & Jaston, 113 Liberty
 Robinson, A. J. Co., 123 E 23d
 Rockland Construction Co. (Marine & Harbor
 Work, Trestles, Foundations, etc.), 8
 Bridge
 Rodgers, J. C. & Son, 1929 Amsterdam av
 Rogers, Geo. W. & Co. (Harbor & Dock), 44
 B'way
 Rolf, Bernard (General), 39 Cortlandt
 Romeo & Serra, Williamsbridge
 Russell Contracting Co., 156 5th av
 Russhon, Geo. E., E 170th c Inwood av
 Ryan, Cornelius J., 140 W 42d
 Ryan, John E., 2d av & 223d
 Ryan-Parker Construction Co., 21 Park
 Sanderson & Porter, 52 William Row
 Scheer-Ginsberg Realty & Construction Co.,
 198 B'way
 Schmidt, Fred'k (Est. of), 580 E 157th
 Schnaier, Robt., 957 Madison av
 Schnauffer, Fred, 712 E 149th
 Seaboard Contracting Co., 299 B'way
 Shanly & Ryan, 17 Park Row
 Sheehan, John C. (Public Work), 253 B'way
 Sheridan, Theresa A. S. (Macadam, Exca-
 vating, Rock Blasting, Paving, etc.), 24
 State
 Shields, Jno. Construction Co., 1 Madison
 Shields, John F., 143 Liberty av
 Sierra Madre Construction Co. (Railroad &
 Tunnel, only for their own road), 100
 B'way
 Slattery, John (Sewer & Public), 370 Park
 Smith, Augustus & Co., 149 B'way av
 Smith, Clarence L. Co. (Excavating, etc.),
 544 W 30th
 Smith, Edward Construction Co., 215 W
 125th
 Smith, F. V. Contracting Co., 327 W 78th
 Snare & Triest Co. (Steel & Masonry Con-
 struction), 143 Liberty
 Spallone, Nich., 555 E 154th
 Spearin & Preston (Dock, River & Piling),
 17 Battery pl
 Spencer & Lomax, 16 Exchange pl
 Springsted & Adamson, 424 E 107th
 Staats, R. P. & J. H. (Docks, Bridges &
 Buildings), 29 B'way
 Stannard, Ambrose B. (Heavy Government
 Buildings), St. James bldg
 Stanton, D. N. (Public Work), 1 B'way
 Steers, Henry (Harbor Work, Piers, Con-
 crete Foundations, etc.), 17 Battery pl
 Stephens, Clinton, Jr. (Public Work), Clason
 Pt.
STEWART, JAS. & CO. (Harbor,
 Marine & Heavy Buildings), North Ameri-
 can Trust bldg
 Stoddard & Hughes, 224 W 29th
 Strang, W. B. (Railroad & Public Work),
 15 Wall
 Submarine Contracting Co., 81 New
 Sullivan, Patrick, 230 Grand
 Sundstrom & Stratton Co., 90 West
 Sutherland, Alex. M. (Street Railways,
 Water Works, etc.), 49 Wall
 Symington, Jas. (Sea Walls, Docks, Light
 Houses, etc.), 16 Exchange pl
 Taylor Dredging Co., 24 State
 Thompson-Starrett Co. (Building Construc-
 tion), 51 Wall
 Thomson & Francis, 215 W 117th
 Tide-Water Bldg. Co., 25 W 26th
 Todd, Arthur C., 92 Spring
 Tanfano, Frank, 10 Shield
 Tompkins Engineering-Construction Co. (Eng.
 & Contractors), 150th & East River
 Traub-Dittmar Construction Co., 215 W
 Trotta, Pasquale, 404 E 131st 125th
 Troy Public Works Co., 1154 St. Nicholas av
 Tucker & Vinton Corporation, 156 5th av
 Tulloch, David M. (Est. of) (Public Work),
 130 Pearl
 Tunnel Concrete Co. (Concrete Tunnel Lin-
 ing), 15 Broad
 Turner Construction Co., 11 B'way
 Udall, Jno. C., 29 W 34th
 Union Construction & R. Co., 259 William
 United Engineering & Contracting Co.
 (Railroad, Dams, Tunnels, Bridge, Diffi-
 cult Foundations, etc.), 32 E 33d
 United Gas & Water Works Construction
 Co., 32 B'way
 U. S. Realty & Construction Co., 111 B'way
 Valenti, G. (Excavating, etc.), 440 E 109th
 Van Wagoner-Linn Construction Co., 110 W
 28th
 Vassar's, G. Son & Co. (Building), 111 5th av
 Waddington, R. & Son, 17 Park row
 Walsh, John F., 136 Charlton

Warren-Burham Co., 68 William
Water Front Improvement Co., 220 B'way
Webster, Fred'k, 16 Cedar
Wechsler, Louis, 1133 B'way
Welch, Edwin & Co., 224 E 59th
Wells Bros. Co., 160 5th av
Wells & Newton Co., 292 Av B
Westervelt & McIntyre, 290 W 11th
Whisten's, Wm. Son, 859 6th av
White, J. G. & Co. (Engineer & Contrac-
tors), 43 Exchange pl
Whitney, A. R., Jr. & Co. (Builders), 135
Wille, Chas., 39 E 42d B'way
Williams Engineering & Contracting Co., 13
Winternitz, Albert, 237 E 72d Park Row
Wood, E. J. Co., 243 B'way
Yorkville Contracting Co., 164 E 52d
ZIMMERMANN, JACOB A., 1358
B'way. (See adv. index, end of book)

Borough of Queens.

FAR ROCKAWAY—Kaiser, George
FLUSHING—Peace Bros. (Grading, Excavating
Tuohy, T. F. & Co. etc.)
LONG ISLAND CITY—Brahya, Jno. N., 288
Brown, Thos. A., 699 Crescent Crescent
Burden, Theron H., 449 Ditmars av
Doolittle, Jno. A., 281 Borden av
Hill, G., 90 Wash'n av
McIntyre, Jas., 210 Young
Paradise, Anthony, 98 B'way
Quinn, H. F. & Sons, 22 Hunter's Pt av
Stevenson, Jas. A., 5 Court
Stevenson, L. T., 54 Pearsall
Thompson & Fitzpatrick, 430 Jackson av
Woodruff, C. Curtis & Co., 211 10th
WHITESTONE—Collins, Lawrence

Borough of Richmond.

DONGAN HILLS—Butler, Tunis E.
NEW BRIGHTON—Hart, P. & Sons (Excavat-
ing & Flagging), 17 Laf. av
PORT RICHMOND—Donovan, J. T. (Public
Milnes, Jno. Co. Work, Roads, etc.)
STAPLETON—Wolf, Philip & Son
WEST NEW BRIGHTON—Attridge, Jno. F.
Carlin, Thos.
Lynch, William F.
(END OF NEW YORK CITY.)

NIAGARA FALLS—Braas Bros. Co. (Excavat-
ing, Heavy Masonry, etc.)
Cookman, W. H. (Sewer & Public)
Crogan, Carmine (Excavating, etc.)
Douglas, A. C. (Shaft Sinking & Tunnel
Hoffman, A. J., 9th e Walnut Work)
Horn, Andrew (Excavating, Grading, etc.)
Read, W. W. & Co.
Shepard, Wm. A.
Wentworth, A. B.
NORTH TONAWANDA—Morris & Allan
OGDENSBURG—Daly & Hannan Dredging Co.
OLEAN—Dean & Havens (River & Harbor)
OSWEGO—Barnett Contracting Co.
OWEGO—Colby, Ellery & Co.
Richardson, L. J. Co. (Waterworks & Public)
PEEKSKILL—Smith, John, Jr.
Sutton, Allen L.
PLATTSBURG—Buckley Construction Co.
McQuillan, A.
PORT CHESTER—Murray, Daniel (Public
Work)
PORT RICHMOND—(See New York City, Bor-
ough of Richmond)
ROCHESTER—Brayer & Albaugh (Sewer, Grad-
ing, Heavy Masonry, etc.), 27 Main, E.
Brotsch, F. A. & Son (Street & Sewer), 826
Clinton av, S
Casey & Murray (Water Works, Railroad,
Paving, Bridge Masonry, Street & Sewer),
Powers bldg
Chambers & Grady (Sewer, Paving, Mason-
ry, R. R., Waterworks, Roads & Build-
ers), Powers bldg
Cowles, H. N. (Sewer & Public Work), 6
Gorsline
Crahan & Kearns (Street, Sewer, etc.), 132
Lenox
Denniston & Co. (General), E. & B. bldg
Finucane, Thomas W. Co., 3 Elton
Foery & Kastner Street), Goodman, opp.
Central Park
Friederich, A. & Sons Co., E. & B. bldg
Fuller, Wm. (Sewer & Street), 16 State
Gorsline & Swan Construction Co. (All
kinds of Building Work)
Hagaman, Miller & Hagaman (Sewer, etc.),
16 State
Holahan, Thos. (Street), 164 Lewis
Hooker, H. B. & Son (Waterworks, Rail-
road, Sewer, etc.), Wilder bldg
Horn, C. L. (Street, Sewer & Buildings),
309 Joseph av

Lauer, Fred C & Sons (Sewer & Street), 458
S Clinton av
Luther, Jno. & Sons Co. (General & Build-
ers), 162 North
Maselli, Frank A., Granite bldg
Rapp, F. H. & Co., Granite bldg
Regan, Jno. J. (Sewer), 181 Driving Park av
Ripton & Murphy (Street, Sewer, etc.), 72
Straucher, Edward, 309 Portland av Penn
Whitemore, Rauber & Vicinus (Sewer,
Street, Roads, etc.), 279 South av
SARATOGA SPRINGS—Groff, Isaac
Leonard, Thomas
Vandenborg, Cornelius
SCHENECTADY—Brown & Lowe, 437 State
Clements, Jos. H. (Public Work), 502 Ham-
ilton
Kinum, Andrew (Building & Public), 119
Park pl
McDermott, Jno. (Building & Public), 108
Romeyn
McEncroe, Jno. (Public Work), 709 Union
Schenectady Contracting Co.
SOUTH BETHLEHEM—Callanan Road Im-
provement Co. (Road & Paving)
STAPLETON—(See New York City, Borough of
Richmond)
SYRACUSE—Baker, Fred'k J. (Paving), Uni-
versity blk
Bonn, Samuel (Sewer), 654 Burnet av
Bustin, John W. (Sewer, etc.), 405 W
Onondaga
Consolidated Engineering & Construction
Co., Syracuse Sav. Bank bldg
Cronin, J. W., 571 S Clinton
Davlin, Jno. (Public Work), 123 Delhi
Dickison, Guy B. (R. R. & General), Kirk
bldg
Dickison, William & Son, 521 W Onondaga
Dunfee, Joseph, 112 E Jefferson
Dwyer, Wm. J., 112 E Jefferson
Hemmer's, John Sons, 213 Sunset
Hookway, Chas. T. (Sewer & Public), 557
Lancaster av
Lavelle, Martin (Paving, Sewer, etc.), 712
Almond
Leamy Bros. (Builders & General), 1108
Grape
Marnell, Nicholas (Sewer, etc.), 319 N
Murphy, David, 234 Lincoln av Franklin
Murtagh, Jas. S. (Paving, etc.), 917 W
Belden av
O'Brien & Hoolihan (Building, Canal &
Public), 1722 Park
Smith, Chas. (Sewer, R. R. & Water
Works), 317 N State
Sullivan, C. J., 126 S Clinton
TARRYTOWN—Duell, Jas. (Sewer, Paving &
Excavating)
TROY—Broderick, E. & Son (Heavy Masonry,
Brown, Lowe & Martin etc.), 225 2d
Corliss Construction Co. (Roads, etc.)
Hudson Valley Construction Co., Times bldg
Karr, Thos. H. (Roads, etc.), 708 Fulton
Morrissey, James H., 371 2d
Murray, Martin (Roads, etc.), 14th & Hutton
Williams, Richard J., ft Grand
TUCKAHOE—Bellew & Merritt Co.
UTICA—Kerner, P. & Son, 2 Canal
Mott & Kemper, 20 Arcade
Peters, Nicholas D. & Co. (Sewer, etc.), 23
Kossuth av
Troy Public Works Co. (Public Work),
Utica City National Bank bldg
WATERFORD—Flynn, Jno. W. (Heavy Mason-
ry, Dams, Pile Driving, etc.)
WATERTOWN—Brennan & O'Brien
Haley, Ward & Co. (General), Bank bldg
Hodge, C. D. & Co.
McHale, T. H.
WEST NEW BRIGHTON—(See New York City,
Borough of Richmond)
WHITE PLAINS—Erbeck, E. L.
McCabe, W. F. (Roads, etc.)
McNeilly, Wm. T.
Richards, Toney (Public Work)
White Plains Construction Co.
WHITESTONE—(See New York City, Borough
of Queens)
YONKERS—Cahill, Daniel, 130 Elm
Flanagan, W. J., 397 S B'way
Grady, Kearns & Hart (Sewer & Street),
290 Nepperhan av
Mangini, Nicholas, 177 Waverly
Molloy, Murray & Co.
Pennell, Jos. B., 224 Buena Vista av

NORTH CAROLINA.

ASHEVILLE—Asheville Dray, Fuel & Construc-
tion Co.
CHARLOTTE—Charlotte Consolidated Construc-
tion Co.
Cooper, L. W.
Jones, J. A.

GREENSBORO—Central Carolina Construction
Pruden, J. T. Co. (Inc.)
WILMINGTON—Tyler, Thaddeus F.
Wilmington Sewerage Co. (Sewers, etc.)
WINSTON SALEM—Bowman, E. C. & Co.

NORTH DAKOTA.

FARGO—Anderson Bros. & Johnson
Hogan, Andrew S.
Jenson, H. B.
Kennedy, James (Public Work)
Porritt, C. H. (Sewer & Public)
GRAND FORKS—Carroll, J. (Excavating, etc.)
WAHPETON—Schuler Bros.

OHIO.

AKRON—Blankenhagen, Henry J. (Sewer, etc.),
54 E Miller av
Boyle, E. D. & Son (Grading, Excavating,
Sewer, etc.), 228 Water
Carmichael, Geo. W. & Co. (Builders, etc.),
Hamilton bldg
Davidson, J. M. (Sewer, etc.), 367 S B'way
Franklin, Walter A., 327 Cuyahoga
Hardy, Henry A. (Excavating, etc.), 19 W
Vorls
Kidder & McCourt (Sewer, etc.), 952 S
McShaffrey, E. & Son, 173 S Forge Main
New Castle Coal Co. (Excavating, Grading,
etc.), 57 W State
Whitestine, Asa (Excavating, Grading, etc.),
663 E Exchange
Wildes, Jas. H. & Son (Grading, Paving &
Sewers), 44 S College
ALLIANCE—Devine, J. C. (Paving & Railroads)
Wilson, John
ASHTABULA—Pulman, E. G. (Sewer, etc.)
BARBERTON—Paul & Henry Construction Co.
(Steam Shovel & Municipal Work, etc.)
BELLAIRE—Castoe & Warner
General Construction Co. (Street & Public)
Keyser, C. D.
CANTON—Biggam, Morgan T. (Grading, Exca-
vating, etc.), 600 Navarre
Central Concrete & Construction Co., Fol-
well bldg
Gantz Construction Co., Folwell bldg
Russell, E. P. & Co. (Excavating, etc.), 615
Penna. av
Skeeles, John (Excavating), 735 S Market
Weber, P. H. (Sewer, Grading & Paving),
1219 Worley av
CHILLICOTHE—Pfaff & Smith
CINCINNATI—Babel, Wm. F., 930 Bates
Bantley, Henry, Spring Garden av, Winton
Bolan, J. M. (Street), 1466 State av pl
Bowen, Robert W. (Excavating, etc.), 606
John
Broeman, Frank (Street, etc.), 3140 Goff av,
W H
Colter, Archibald (Street), Vine & Long-
worth
Coyle, Joseph, 2233 Kemper la, W H
Donnelly & Dovey Construction Co., Traction
bldg
Drach, Louis Construction Co. (General),
206 E 4th
Ellis, W. H. & Co. (Builders, etc.), Mit-
chell bldg
Evans, Evan (Sewer, etc.), 1226 Ida
Flynn, M. T. (Street), Chase av & Dane
Fogarty, Wm. (Grading, etc.), 936 Windsor
Foiz, Frank W. & Co. (Paving, Sewer &
Public), Dayton & Freeman av
Gest, G. M. (General), Union Trust bldg
Glandorf, C. H. (Pile Driver & Public),
8th & Plum
Gleason, Geo. S. & Co. (Street), Build-
ers' & Traders' Ex
Gleason, Patrick (Street), 1906 Highland av
Goodman, John & Co. (General), 2133 Mont-
gomery rd
Gordon Engineering Co., 142 E 4th
Hazen, L. P. & Co. (Heavy Buildings &
Public Work), Reading rd & Elsinore av
Heffron, Wm. Construction Co., Neave bldg
Henkel & Sullivan, Mercantile Library bldg
Hummel, David Building Co. (General &
Stone), 2629 Spring Grove av
Keeling & Ridge Co., Mercantile Lib. bldg
Kirchner Construction Co. (General), 8th &
Plum
Maloney, Thomas (General), 1858 Forest av,
W. H.
Meier, Chas. (General), 3846 Colerain av
Metcalf, Evan P. (General), 3635 Edwards
rd, H P
Moser, Joseph (Excavating, etc.), 943 Harris
av
Pachoud, A. L. & Co., 1037 Gilbert av
Quill & Poos, 1015 Windsor

Robinson, O. E. (General), 4647 Hamilton av
 Ruebel, Jno. & Bro. (Street), Atlas Bank bldg
 Ruebel, Nicholas, 1926 Harrison av
 Scully Construction Co. (Builders), Grand Opera House bldg
 Sheridan-Kirk Contract Co. (Government & Dredging), Mercantile Library bldg
 Smead, Isaac D. & Co., Com. Tribune bldg
 Stegmess, Paul (Grading), 2d av n of Liberty
 Strack, Thos. P. (General), 8th & Plum
 Sullivan, Michael, Mercantile Library bldg
 Vance, E. A. Construction Co., 15 E Canal
 Walker, Geo. P. (Sewer), 111 E 4th
 Wright, Chas. L. (General), 1345 Herschel av

CLEVELAND—Acme Contracting Co., Society for Savings bldg
 American Cons. Co. (River & Harbor Improvement, etc.), Rockefeller bldg
 American Contracting Co. (Bridge), 1110
 Andrews Bros., Schofield bldg Euclid av
 Austin, Samuel & Son Co. (General), 4401 B'way, S E
 Baldwin Bros. & Graham (Paving, Sewer, Water Works, etc.), Rose bldg
 Bause, A. J. (Sewer, etc.), 2339 E 89th
 Beers & Doolittle, American Trust bldg
 Bogue & Oates (Sewer, etc.), 4521 Detroit av, N W
 Bradley, Wm. & Son (General), Rockwell av & E 3d
 Brannan, And'w W. (General), 6723-Quinby av
 Buckeye Contracting Co., Cuyahoga bldg
 Burgess, C. H. (Paving & Public), Benedict bldg
 Burkhardt, Christian (Sewer), 138 Lake av
 Burne, Lalande, H. Co. (General), Schofield bldg
 Burnett, Rollin P. (Paving & Sewer), Society for Savings bldg
 Burtscher, Jos. I. (Sewer), 2197 E 36th
 Campbell, M. P. (Sewer, Grading, etc.), 11225 Detroit av
 Carey Construction Co. (Heavy Masonry, etc.), Electric bldg
 Carter Construction Co., Citizens bldg
 Clements Bros. Construction Co. (Paving, Sewer & General), Colonial Arcade
 Cleveland Construction Co., Citizens bldg
 Cleveland Tunnell Construction Co., Chamber of Commerce bldg
 Concrete Steel Construction Co., The Arcade
 Connelly, J. Construction Co., Schofield bldg
 Dall, Andrew & Son (Builders), Lennox bldg
 Dautel, L. & Son (General), 5710 Hough av, N E
 Daykin Bros. (Sewer), 1606 W 25th, N W
 Dettelbach Plumbing & Heating Co. (Sewer), 2939 Woodland av, S E
 Dravo Contracting Co., Dredging, etc., New England bldg
 Dress, John F. (Sewer), 3619 Lorain av
 Eberling, J. B. & C. M. Construction Co., American Trust bldg
 Eckerman Heating, Plumbing & Supply Co. (Sewer), 4609 Lorain av
 Eggers, Wm. (Sewer, etc.), 2885 W 14th
 Faragher Engineering Co., 64 Public sq
 Fath, C. H. & Son Construction Co. (Masonry, Pile Driving, etc.), Chamber of Commerce bldg
 Firehow, Julius P., Schofield bldg
 Gawne, W. J. Co. (Public Works, etc.), Citizens, bldg
 General Contracting Co. (General), Society for Savings bldg
 Gill, Jno. & Sons (Builders & General Contractors), Citizens bldg
 Goldfein, H. & Son (Sewer), 1009 Woodland av, S E
 Grant, Jno. & Son (General), Schofield bldg
 Graves & Stephens, Commercial Bank bldg
 Great Lakes Dredge & Dock Co. (River & Harbor, Bridges, Foundations, etc.)
 Griese, D. C. & Walker Co. (General), 1417 Prospect av, S E
 Griffin, C. N. & Co. (General), The Arcade
 Hatch, Edward G., Williamson bldg
 Henehan & King (General), Builders' Ex
 Hitchcock, Edwin C. (Sewer), 11608 Detroit av
 Hughes Bros. & Bangs (Dredging, etc.), Hickox bldg
 Hunkin Bros. Construction Co. (Breakwaters, Piers, Buildings, etc.), Cuyahoga bldg
 Inland Construction Co., New England bldg
 Keiper, John J. (Sewer, etc.), 5415 St. Clair av, N E
 Kemsies, F. Albert (General), Schofield bldg
 Kennaman, M. & Co. (Paving, Grading, etc.), Schofield bldg

Koblitz, I. & Son (Sewer), 1305 Prospect av, S E
 Lindhorst, F. & D. (General), Superior bldg
 McManus, Thos. J. (Grading, Paving, etc.), Society for Savings bldg
 MacKenzie, L. W. (General), Park bldg
 Masters & Mullen Construction Co., Rose bldg
 National Constructing Co. (General), Amer Trust bldg
 Nims, W. A. Co., 1441 E 9th, N E
 Northern Ohio Paving & Construction Co. (Concrete, Grading & Paving, etc.), Arcade bldg
 Ohio Construction Co. (General), Wick blk
 Parker, A. A. (Sewer), 3932 Superior av, N E
 Paul, Wm. T. & Sons, 1796 E 89th, N E
 Phillips & Bixel (Waterworks, Sewers, Grading, etc.), 235 Superior av, N W
 Poplowsky Bros. (Sewer, etc.), 1715 Scovill av, S E
 Poplowsky & Hirsh (Sewer, etc.), 1414 Prospect av, S E
 Reaugh Construction Co. (Paving, etc.), Garfield bldg
 Reaugh, J. A. & Son (Builders), Garfield bldg
 Reserve Construction Co. (Sewer, etc.), 1694 W 25th
 Rutenbeck & Son (Sewer), 2714 W 41st, S W
 Rutherford, Geo. A. Co. (General), 2060 E
 Sannou, Peter, Williamson bldg 4th
 Schade, Jacob (General), Chamber of Commerce bldg
 Schmeller, Jno. (General), Park bldg
 Slatmyer, Henry G. (General), 203 Lakeside av, N W
 Son, Charles (General), American Trust bldg
 Spence Bros. (Grading, Paving, Sewers, Macadam Roads, etc.), 2923 Euclid av
 Standard Contracting Co. (Railroad & General), 63 Wade bldg
 Standard Engineering Co., Garfield bldg
 Standard Paving Co. (Public Work, etc.), Society for Savings bldg
 Strong, C. H. & Son (Dredging, Steam Shovels, Bridge Masonry, Docks, etc.), Cuyahoga bldg
 Tausch, Wm. F. (General), Williamson bldg
 Thompson, Walter I. & Son (General), 5015 Euclid av
 Townsend, W. J. Co. (Sewer & Street Improvement), 9335 Miles av, S E
 Velotta, Pasquale (Sewer, etc.), Williamson bldg
 Vogel, Fred. H. (General), Citizens' bldg
 Warden & Leese (Sewer), 2221 E 9th, S E
 Water Works Construction Co., Citizens bldg
 Watterson, Henry (General), Citizens' bldg
 Whitton, Frank P. (General)
 Williams Bros. & Morse Co. (General & Heavy Masonry, etc.), Builders' Ex
 Wood, Thos. (Sewer, etc.), 110 Prospect av, N W
 Younger & Farmer Co., 2273 E 71st, S E
 COLUMBUS—Abbott, Nathan B. (Paving, etc.), 85 N High
 Adams, J. T., Columbus Savings & Trust bldg
 Ballinger, J. L. Construction Co., Hayden bldg
 Buckeye Engineering & Construction Co., Union National Bank bldg
 Buckeye Engineering & Construction Co. (General), Union National Bank bldg
 Capitol Construction Co. (Electric Railway), Ruggery bldg
 Cherry, Wm. E. W., New First National
 Close, Chas. J., Harrison bldg Bank bldg
 Columbus Construction Co. (General), Clinton bldg
 Cooke, Grant & Fritz Bros. (General), Eberly blk
 Evans, R. H. & Co., Columbus Savings & Trust bldg
 Fisher & Knight Construction Co., 23 E State
 Fornoff, F. M. (Sewer, etc.), 135 W Rich
 Geigle, George, 52 E Fulton
 Hoover & Kinnear Co. (Tunnel, Heavy Masonry, Steam Shovel, Grading & Rock Work)
 Isabel, Stephen J., 137 W 10th av
 Jones Bros. (General, Railroad, etc.), Harrison bldg
 Lind, L. H. (Sewer), 890 Wilson av
 Luchtenberg, Wm. H. & Co. (Paving & Public), The Wyandotte
 McCracken, C. T. & Co., Schultz bldg
 McGrath, Daniel W. (Sewer & Masonry), New First National Bank bldg
 Marshall & McCullough, 63 E Lynn
 Murphy & Miles, Columbus Trust bldg
 National Engineering Co. (Railway & Municipal), Brunson blk

Pugh, A. G. (Paving, Sewer, etc.), Union National Bank bldg
 Shaw, H. J., Outlook bldg
 Smith, Hugh E., Columbus Trust bldg
 Snider, James E., 603 E Mound
 Snyder & Ramey, 46 W Swan
 Standard Construction Co., Deshler blk
 Sullivan, Murphy & Miles, Columbus Trust bldg
 Walter, Bert, Deshler blk
 Westwater, Jas. & Co. (Builders & Masonry), The Wyandotte
 Westwater & Casey (Sewer, etc.), Wyandotte bldg
 DAYTON—Backus, T. J. Construction Co. (Public, Sewer, Street, etc.), Reibold bldg
 Cain Construction Co.
 Colonial Construction Co.
 Dayton Construction & Engineering Co.
 Hoglen & Gephart (General), Callahan Bank bldg
 Talbott, H. E. & Co. (Heavy Masonry & Concrete Work, etc.)
 ELYRIA—Ohio Engineering Co. (Paving, Sewer & Water Works)
 FINDLAY—Hall, C. B. & Son (General)
 FREMONT—Modern Construction Co. (Sewer, etc.)
 GREENVILLE—Irwin Bros.
 Irwin & Koester
 HAMILTON—Andrews, R. N. Co. (River & Harbor)
 Davis, Frank J.
 Hamilton Contracting Co. (Sewer, Gas Main, Water Works, Paving, etc.)
 IRONTON—Tri-State Improvement Co.
 LANCASTER—Crook, J. Carl
 Mowery & Darbyshire
 LIMA—Lima Engineering & Construction Co.
 Myers, L. E. Co. (Sewer, etc.)
 LORAIN—Glick, Julius
 Mathews, S. W. (Sewer, etc.)
 Ohio Engineering Co.
 Pierce, F. W.
 MANSFIELD—Cotter Transfer & Storage Co. (Excavating, etc.)
 Frances, E. H. Sons (Railroad, etc.)
 Small, Simon & Son (Sewer, etc.)
 MARIETTA—Dickson, Beardsley & Foreman
 Dowling, C. W.
 MARION—Drake, P. & Sons
 Hoffstetter & Dawson (Sewer, Excavating, Hummer Construction Co. etc.)
 Kelly, P. & Co. (Public Work)
 Leffler & Bland
 Price & Hurley (Sewer, etc.)
 Stafford, William C.
 MASSILLON—Wibel, Henry (Sewer)
 MIDDLETOWN—Arpp, John (Sewer)
 Kemp, F. M. & Sons (Paving & Public)
 Morningstar, George
 NEWARK—Jones, Daniel E.
 Palmer Bros.
 NEW PHILADELPHIA—Westhaven Construction Co.
 NILES—Mango, V. (Sewers & Paving)
 PORTSMOUTH—Baird, Samuel P.
 Kaps Bros. (Heavy Masonry, etc.)
 Kelly Bros.
 Monroe, Samuel & Son (Sewer & Public)
 Nave, E. G. Bros. Co. (Heavy Masonry & Bridge Work, etc.)
 Nave-Ryan-Curtis Construction Co.
 SALEM—Buell, Samuel (Sewer & Public)
 Burt & Gunn (Sewer & Paving)
 Smith, Geo. D. & Bro. (Sewer & Paving)
 SANDUSKY—Henry, Frank & Son (Sewer, etc.)
 SPRINGFIELD—Champion Construction Co.
 Huonker & Williams (Sewer, etc.), 141 S Limestone
 Payne, Wm. F. (Excavating, Grading, etc.)
 Ryan, Edw. (Paving & Public), 101 Clifton
 STEUBENVILLE—Bates, Harry M. (Excavating, etc.)
 McDonald, Andrew W.
 TOLEDO—Beach, J. J. Grading), 1918 Wayne
 Bick, Jacob N. (Trestles, Foundations & R. R.), The Nasby
 Bodette Cartage Co., 22 Columbia
 Breymann, G. H. & Bro. (Dredging & Harbor), Marine bldg
 Breymann, O'Neill & Tansey (Sewer, etc.), St. Clair bldg
 Bright, Wm. W. (General), 2030 Adams
 Carland, J. C. & Co. (Railroad & Public), The Valentine
 Chavous, Jas. (Excavating), 354 Indiana av
 Degnan, John (Sewer, etc.), 636 Avondale av
 Ferdig, G. L. (Sewer), 1200 Colton
 Garrigan Bros. (Paving & General), Valentine bldg
 Great Lakes Dredge & Dock Co. (River & Harbor)
 Hattersley Construction Co. (General), Gardner bldg
 Hermann, C. C. J. (Sewer), 1080 Fernwood av

Holtz, Jos. (Sewer & Paving), 944 Western av
 Hopp, Fred H. (Excavating, Sewer, etc.), 518 Hicks
 Horan, Jas. H. (Paving, etc.), The Valentine
 Jones, Robert J. (Excavating), 2939 Collinwood av
 Kelly, T. J. (Sewer), 626 Avondale av
 Kerlin Bros. Co. (Paving & General), Nasby bldg
 Knopp Bros. Co., 1415 Oak
 McKinney, Thos. & Son, Nasby bldg
 McLain, E. A. (Sewer), 958 South
 Manor, Jos. J. (Excavating, Grading, etc.), 1318 Ewing
 O'Sullivan, M. F. (Sewer), 145 Oak
 Rabbitt, Michael & Sons Co. (General), The Nasby
 Reagan, Jno. (Sewer), 909 Indiana av
 Reamsnider, Geo. (Sewer), 810 Lorain
 Sawyer, C. H., 1518 Madison av
 Schultz, Chas. (Sewer & Paving), 723 Tecumseh
 Sheehan, Henry (Sewer), 1208 Collingwood av
SCHILLINGER BROS. CO. (Asphalt & Concrete Pavements), 215 City Park av. (See adv. index, end of book)
 Streicher, H. P. & Co. (General), 20 St. Clair bldg
 Thacher, A. Q. & Co. (Dredging, Submarine Work of all Kinds, Heavy Masonry, etc.), Marine bldg
 Toledo Construction & Supply Co. (Paving & Sewer), The Spitzer
 Welever, A. W. (Grading), 1103 Cherry
VAN WERT—Ireland, C. L.
WELLVILLE—Gillespie, T. A. Co. (Public & Water Works)
YOUNGSTOWN—Colucci, Andrew (Excavating)
 Mullin, James H. (Excavating, etc.)
 Niedermeier & Restle
ZANESVILLE—Adams Bros. (Sewer, etc.)
 Blodgett, H. D. Construction Co.
 Evans, R. H. & Co.
 Price, J. D.
 Townsend, Frank M. (Railroad & Masonry)
 Townsend, T. B. Brick & Contracting Co. (Sewer, etc.)

OKLAHOMA TERRITORY.

GUTHRIE—Hutt, J. E. Contracting Co.
OKLAHOMA—Anderson, T. R. Contracting Co.
 Campbell, A. O. (General)
 Gross Construction Co.
 O. K. Building & Construction Co.
 Rees & Pipher (Railroad, Excavating, etc.)

OREGON.

ASTORIA—Ferguson & Houston (General)
 Lebeck, Leander
 Northwestern Construction Co.
PENDLETON—Harlow, E. E.
PORTLAND—Anderson & Berglund
 Bechell Bros. (General), 166 Fay
 Bennett, J. E.
 Benvie & Burrington
 Bridges, J. B.
 Brooks & Downing
 Columbia Contract Co., Commercial blk
 Conley, Martin J. (Grading, etc.)
 Contracting Engineering Co., Fenton bldg
 Cook, C. J. Co., 55 5th, N
 Findley, Felix
 Frailey, J. (Grading, etc.)
 Gardner & McLennan
 Garrett & Peterson (General), 594 Front
 General Contracting Co.
 Glebisch & Joplin (Grading, etc.), 1 E 30th
 Holmes, J. W. & Co.
 Howard, Harry A.
 Joplin & Meeks (Grading), 9 E 30th
 Kern, Daniel
 McInnes Bros.
 McInnis & Reed
 Merchant, J. M.
 Miller & Bauer, Abington bldg
 Morgan, William L.
 O'Neil, John R.
 Pacific Bridge Co., Mohawk bldg
 Pacific Coast Construction Co. (& Railroad), Sherlock bldg
 Portland Contract Co., Worcester blk
 Smith, B. F.
 Standard Construction Co.
 Steele, W. B. Construction Co.
 Thompson & Willard Bros.
 Wakefield, Robert
 Warren Const. Co., Oregonian bldg
 Wiles, Elwood, Chamber of Commerce bldg
 Wolfe, O. D. & Co., Grading, etc.)

PENNSYLVANIA.

ALLEGHENY—Atlas Construction Co. (Street, etc.), 424 Federal
 Beatty, Samuel K. (General), 2001 Market
 Bothwell & Carson (Grading), 2013 Beaver av
 Bruggeman, John F. Co. (General), 502 Avery
 Cochran, George A. & Co., 1210 Washington av
 Damm & Beyer (General), Geyer rd
 Duff Construction Co., 918 Boquet
 Eberz & Son, 711 1st
 Frederick Bros. (General), 1914 Beaver av
 Graham, R. J. (General), 120 Ohio, E A
 Gwinner, Fred. (General), 1801 Market
 Hughes, Philip T., 1310 Federal
 International Construction Co., 117 Ohio
 Kunze-Kuhns Co., 111 S Diamond
 Purnell, A. V. (General), 507 Jackson
 Rose & Fisher (General), 821 Penna av
 Tannehill, R. C. & Son (Builders, etc.), 1315 Federal
 Trimble, W. F. & Sons Co., 1719 Greenwood
 Wheery, Jas. & Co. (General), 857 North av
ALLENTOWN—Bennicoff & Moyer (Excavating, etc.)
 Crilly, Hugh E. (Public Work, etc.), Bellevue Hotel
 Harduer, Geo. H. (Sewers, Bridges, Macadam, Brick Paving, etc.)
 Lehigh Engineering Co. (Water Works, Sewer & Municipal Work)
 Snyder, Jos. P. (Excavating & Cellar), 222 N 12th
 Weaver Contracting Co. (General), 1306
ALTOONA—Altoona Construction Co. Gordon Fagan, Patrick J. (Sewer, etc.)
 Finn, Peter W.
 Hughes, Wm. V. & Son
 Kelly, Bernard (Sewer, etc.), 517 7th av
 O'Rourke, D. F. (Sewer, Railroad, etc.), 2000 Union
 Seedenburg & Fouse
 Stall's, W. G. Sons
 Vipond Construction Co. (Sewer & Public)
BEAVER FALLS—Shanor, W. A.
BRADDOCK—Hogg, George Co.
 McAdams, William, Sr.
 McCrady Bros. Co. (Paving, Sewer & Excavating)
BRADFORD—Ardizzone, Joseph
 Bradford Construction Co.
BUTLER—Schaffner, Jno. (Sewer, Paving & CARBONDALE—Atkinson, Hugh Public)
CARNEGIE—Dushane & Lewis
 Gamble, S. (Sewer & Public)
CATASAUQUA—Emanuel, D. L. (Builders & Public Work)
CHAMBERSBURG—Nelson Construction Co. (Bridge Work, Re-Enforced Concrete & Road Building)
CHESTER—Dickerson Paving & Construction Co.
 Hanna, Jno. & Sons (Street Improvement, Excavating, Grading, Sewer, etc.)
 Holcroft, W. H. & Co.
 Morris, H. Lewis
 Nolan Bros. (Builders, etc.)
 Robinson, James (Sewer, etc.)
COATESVILLE—Dunleavy Bros. (Railroad & Excavating)
 Thompson, W. A. P.
CONNELLSVILLE—Connellsville Construction Co.
 Marietta, Marcus
DUNMORE—Gibbons, Martin
EASTON—Leshner, T. M. & Son
 McInerney, John
 Miles, James E. (Paving & Public)
 Miles-Tighe Contracting Co.
 Streepy & Stickland
 Pascoe Construction Co.
 Schimmel & Hell
 Smith-McCormick Co. (Water Works)
 Stewart, R. T. & C. D. Contracting Co.
ERIE—Driscoll, Edward (Sewer, Paving, etc.), 219 French
 McCormick, Jno. & Sons (Paving & Public), 645 W 10th
 McCormick, Michael H. (Sewer, etc.), 1604 Poplar
 Mayer Bros. (Paving & Road), 1213 State
 O'Brien, Dennis (Sewer, etc.), 118 E 3d
 Shenk, Henry Co. (Builders & General Contractors)
FRANKLIN—Fredericks, J. A. (Road, etc.)
 Hanna, J. L., Jr.
 Osborne, Edwin
 Osborne, John
GREENSBURG—Bennett & Talbott (Railroad & Public)
 Coulter & Furtwangler
 Good, Geo. W. & Co. (Street & Paving)
 McCann, Peter F.
 Stark, H. F.
HARRISBURG—Kamerer, Andrew, N 9th nr Kime, Samuel S., 1624 Logan Market
 Markley, W. D., 541 Woodbine

May, J. K., 16 S 13th
 Milnor, George W., 719 Capitol
 Payne, George F. & Co., Capitol bldg
 Stapf & Benfer, 23 S 3d
 Stucker Bros., 15 N 2d
 United Ice & Coal Co., Cowden & Forster
 Wilson, R. D. & Co., Market c 9th
HAZLETON—Boyle, P. F.
 Crellin, Jno. W. (Masonry & Excavating)
 Cuyle, N. J. Son
HOMESTEAD—Erbeck, F. J. (Paving & Public)
 Morgan, Thomas W.
JOHNSTOWN—Best, John V.
 Hockstein, J. F. (Excavating, etc.)
 Seibert, Thomas S.
 Zipf, Fred & Co.
LANCASTER—Fritchey, J. U. & Son (Paving & Sewer)
 Hook, Jno. H. (Sewer & Public), 431 W Lemon
 McGrann, Richard J., Jr. (Excavating & Grading, etc.)
 McMellen, Elias (Bridge, Masonry & Builder)
 Malone, Bernard F. (Railroad & Public)
 Malone, Richard A. (Railroad & Public)
 Oster, Wm. M. (Paving, etc.)
 Reilly & Riddle (Railroad)
 Rohrer, Grant (Railroad & Public)
 Schweers, August F. (Sewer, etc.)
 Schweers, Herman (Sewer, etc.)
 Stauffer, Chas. F. (Sewer & Public)
 Tuorto, Michael (Excavating, etc.)
LATROBE—Kerbaugh, H. S. (Inc.)
 Pottinger, Thomas (Excavating, etc.)
LEBANON—Stoeber, John P. L.
LOCK HAVEN—Miller Construction Co.
 Salmon, David
 Thomas, A. M. (Waterworks, etc.)
McKEESPORT—Ault, D. V. Co. (Grading, Paving, etc.)
 Bowman Bros. (Paving, Street, etc.)
 Ford, John H. (Excavating, etc.)
 Oliver, Robert
 Weir, Robert (Sewer & Public)
 Wertenbach, John H.
McKEES ROCKS—Herbst, J. & Co.
MAHANAOY CITY—Donohue, John
 Gorman, Edward
 Smith & Campion (Street & Road)
MEADVILLE—McGuigan, Thos. (Sewer & Public)
 Robinson, Fred'k (Sewer, Paving & Excavating)
NEW BRIGHTON—McGuire, J. G. & Co. (Paving, Sewer & Railroad)
NEW CASTLE—Cochran & Parady (Excavating, Grading, etc.)
 Huey, Samuel R. (Heavy Masonry, etc.)
 Mitchell, William H. (Sewer & Paving)
 Sims, C. A. & Co. (Railroad & Public)
 Woods, A. W. Co. (Ltd.) (Grading, etc.)
NORRISTOWN—Dyer, Jno. T. (Railroad & Public Works)
OIL CITY—Hinderlitter, Isaac N. (Sewer & Paving)
 Roess, G. F. & Co. (Excavating, etc.)
 Smedley, Frank (Street, etc.)
PHILADELPHIA—Allison, John W. Co. (Engineers & Contractors), Land Title bldg
 American Dredging Co. (River & Harbor), Mariners' & Merchants' bldg
 American Pipe Mfg. Co. (Water Works), 114 N Broad
 Armstrong & Latta (Dock, Harbor & Public), Land Title bldg
 Barret, G. McN., 5306 Magnolia, Gtn.
 Bowers Bros. Co., Real Estate Trust bldg
 Brann & Stuart Co., Arcade bldg
 Brown, John G. (Contractor & Engineer), Witherspoon bldg
 Broskelhurst, Harry, 512 W Norris
 Byers & Clarkson, 806 Walnut
 Clement, F. H. & Co. (R. R., etc.), Land Title bldg
 Columbia Contracting Co., Arcade bldg
 Connor, Thos., 3333 N 5th
 Courtenay Construction Co., 1305 Arch
 Craig, Charles (Excavating, etc.), 2632 Columbia av
 Cramp & Co. (Builders, etc.), Commonwealth bldg
 Crossan, Kennedy, Land Title bldg
 Cunningham & Murray, 1345 Arch
 Delaware River & Atlantic Construction Co. (R. R., etc.), Penn. bldg
 Dickerman & Yeakley, 26th & Susquehanna av
DOAK, JAMES G. (Building & General), Crozer bldg. (See adv. index, end of book)
 Drake & Stratton Co. (R. R. & Large Public Work), 32 S Broad
 Du Page Construction Co., Witherspoon
 Dyer, Jno. T. Co., Harrison bldg
 Eastern Contracting & Construction Co., 14 S Broad
 Eyre Construction Co., Arcade bldg

Finlay & Bellfield, 130 N 12th
 Foley & Co., 1215 Federal
 Forepaugh Bros., 3577 Tulip
 Frazer Construction Co., 14 S Broad
 Fretz, A. L. & Co., 1222 Chancellor
 General Construction Co. (of N. J.), Heed bldg
 General Paving & Construction Co. (Inc.), (Cement & Concrete Pavements & Foundations), Betz bldg
 Gilbert, Edwin & Co. (Builders, etc.), Weightman bldg
 Glenn, Geo. A. & Co., 930 N 8th
 Goll, Jno. & Co. (Railroad, Bridge, etc.), Greiner, J. H., Heed bldg 1539 Filbert
 Grim, John L., Girard bldg
 Haldeman Construction Co., 619 Arch
 Harfinger, Chas. W., 1414 Penn sq
 Harmer & Quinn, Fidelity Mutual Life bldg
 Harris, Franklin M. & Co., 1820 Wylie
 Havens, Herbert E., Girard Trust bldg
 Hedden, Elmendorf J., 14 S Broad
 Henderson & Bro., S 25th, below Spruce
 Henderson & Co. (Ltd.) (Builders, etc.), 1221 Arch
 Hennebique Construction Co., Witherspoon bldg
 Hill, Malcolm W. Co., Land Title bldg
 Hoffman Engineering & Contracting Co. (Bridge & Public), Penna. bldg
 Holt, Henry, 30th & Race
 Ktenan, D. Frank, Arcade bldg
 Kelley, John A. Co. (Inc.), Penna bldg
 Kerbaugh, Henry S., (Inc.) (R. R., etc.), Arcade bldg
 Kerrick, Emery J., 228 W Hottter, Gtn.
 Keystone Contracting Co., Betz bldg
 Kirkpatrick, Robert, 2119 Fitzwater
 Kline, J. W. & Co., 2117 N Broad
 Lafferty, Chas. H., 1312 Wash'n av
 Land-Wharton Co. (Inc.), Pennsylvania bldg
 Lathbury, Benj. B., Land Title bldg
 Latta & Terry Construction Co., Penn. bldg
 Louchheim, J. H. & Co. (Paving & Sewer), Mint Arcade bldg
 Loughran, John (Builder, etc.), 2641 N 18th
 Louisiana Construction Co., West End Trust bldg
 McCaul, Charles Co., 10 N 11th
 McClellan, H. A. & Bro. (Excavating, Grading, etc.), 1020 Ritner
 McCormick & Co., Rothschild bldg
 McDermott Contracting Co., Penna bldg
 McGaw & Gray (Masonry, Grading, Bridges, R. R., etc.), Penn bldg
 McGehean, Miles J., 69th & Virginia
 McGlathery, Joseph, 430 Walnut
 McGraw, James Co., Arcade bldg
 McHugh, M. & J. B. (Sewer, Paving & Municipal Work), Witherspoon bldg
 McLean, Wm. & Co., Harrison bldg
 McMahon, David (Street), 7 E Chelton av
 McManus, M. Construction Co., 414 Wood
 McMenamin & Sims, Arcade bldg
 McMenamy, John, Harrison bldg
 McMullen & McDermott, Real Est. Trust Co bldg
 McNichol, Jas. P. & Bro. (Public Work), Betz bldg
 McNichol, Patrick & Sons (Public Work), 1316 Race
 Magee's, William Sons, 7121 Gray's av
 Mark, Frank, 21st & Somerset
 Melody & Keating, 1218 Chestnut
 Merchants Construction Co., 44 N 4th
 Millard Construction Co., Penna bldg
 Monday, Chas. E. & Co., 1318 Olive
 Monks, John & Sons (Inc.), Stephen Girard bldg
 Moore, Samuel E. (Builder, etc.), 1221 Arch
 Monongahela Construction Co. (Masonry, Grading, Coal Tipples & Heavy Buildings), Perry bldg
 Mullen, Jas. A. (Masonry & Grading), 5512 Vine
 Myers, Jacob & Son, Witherspoon bldg
 Newhall & Co., West End Trust Co. bldg
 Payne, Geo. F. & Co. (Builders, etc.), 401 S Juniper
 Pennock, J. E. & A. L. (Builders, etc.), Land Title bldg
 Penna. Engineering Co., Perry bldg
 Peoples Bros. (Heavy Masonry, Sewer, etc.), Callowhill & 25th
 Pepper, David, Jr. (Engineer & Contractor, Water Power Plants, Electric Roads, etc.), Land Title bldg
 Peterson, R. W. (Street & Public), Land Title bldg
 Pinkerton Construction Co. (R. R. Masonry, etc.), Land Title bldg
 Porter, Chas. A., 804 Girard bldg
 Quigg, Wm. H., 112 N Broad
 Railroad Construction Co. Land Title bldg
 Reeves, Stacy & Co. (Builders, etc.), 1611 Filbert

Register, A. L. & Co. (Contractors & Engineers), 112 N Broad
 Reld-Turnbull Construction Co. (Engineers & Contractors), Penna bldg
 Reilly, Thos., 1616 Thompson
 Reilly & Riddle, Walnut la & Oros, My'k
 Reilly & Webber, Harrison bldg
 Reiter, Curtis & Hill (Sewer, Paving, R. R. & Public), Arcade bldg
 Richardson & Ward (Bridge Foundations), Betz bldg
 Roydhouse, Arey & Co. (Building & Heavy Masonry), Fidelity Mutual Life bldg
 Ruch, Geo. W. & Co. (Paving & Excavating), 2851 N Hutchinson
 Ryan & Kelley (Public & Municipal), Penna. bldg
 Scofield Co. (Engineers & Contractors), Penna bldg
 Shanley, B. M. & J. F. Co. (R. R. & Public), Arcade bldg
 Sherky, Wm. D. (Eng. & Contractor), Heed bldg
 Sims, Chas. A. & Co. (Railroad, Water Work, etc., & Public Work), Harrison bldg
 Smedley Construction Co. (Concrete Foundations, Paving, etc.), Stephen Girard bldg
 Smith, E. E. Contracting Co. R. R. & Public, Arcade bldg
 Snyder, Geo. F. & Co., 129 S 5th
 Southeastern Construction Co., West End Trust bldg
 Sparks & Evans (Bridge, R. R., & Public), Rothschild bldg
 State Construction Co. (Gas & Water Works Construction), Land Title bldg
 Steele, Wm. & Sons, 1600 Arch
 Still, Wm. H. & Bro., 8503 Gtn av, C. Hill
 Stitzer, Jas. Hubert, Jr. (Buildings, Foundations, Reinforced Concrete, Municipal Work, etc.), Commonwealth Trust bldg
 Sullivan Bros., Arcade bldg
 Summers, F. P. & Son, 1616 McKean
 Thompson-Starrett Co. (Building Construction), Penn bldg
 Vare, Edwin H. (Sewers, Conduits, etc.), Betz bldg
 Vogt & Golden, 2210 Cambria
 Warner, George C. (Excavating, etc.), 364 E Penn
 Wharton, Wm., Jr. & Co. (Street, R. R.), 25th & Washington av
 Wiggins, John R., 1215 Filbert
 Williamson & McLaughlin, Lippincott bldg
 PITTSBURG—Abel, A. F. (Pile Driving, Trestles, etc.), 321 Water
 Ajax Contracting Co. (General), 929 5th av
AMSLER ENGINEERING CO. (Engineers & Contractors for Gas Producer Plants, Concrete Reinforced Construction, etc.), Diamond Bank bldg. (See adv. index, end of book)
 Anderson Bros., 2518 Hallet
 Ansell, A. & Sons, 13 Decatur
 Baker Contract Co. (General), Bessemer bldg
 Barr, J. C. Co., 309 4th av
 Bartley, A. C. (Excavating, etc.), 5018 Dauphin
 Bennett, Wm. B., 742 N Negley av
 Bishop Construction Co., 311 Chestnut
 Bole, Geo. M. Construction Co. (Ltd.) (General), 202 9th
 Bollinger-Andrews Construction Co., Empire bldg
 Bollinger Bros. (General), Fulton bldg
 Booth & Flinn (Paving), 1942 Forbes
 Booth & Reichard (General), 264 Franks-Charlem, Theodore, 1304 Locust towu av
 Chisholm, W. M., 3331 4th av
 City Contracting Co., 341 6th av
 Collins Contracting Co. (Masonry, etc.), 407 4th av
 Columbla Contracting Co. (Heavy Grading, Track Laying & R. R. Bridge Masonry), Frick bldg
 Corcoran, Jas. G. Co. (General)
 Cronin, Thos. & Co. (Paving & Sewer), 227 Cummings, Robert A., 4 Smithfield S 17th
 De Planty, Clarence G., 6216 Penn av
 Donoghly, Jas. M., 318 S St. Clair
 Drake & Stratton Co. (R. R. & Large Public Work), Farmers' Bank bldg
 Dravo Contracting Co. (Heavy Masonry, Shaft Sinking & Government Work, etc.), Lewis blk
 Driver, Chas. M. (Sewer & Masonry), Penn Duff Construction Co., Frick bldg
 Duquesne Construction Co. (General), Bessemer bldg
 Eastern Contracting Co., 5908 Kirkwood
 Egan, Chas. (Excavating, etc.), 1126 Victory
 Egan, Thomas J. (Grading), 1721 Bluff

Ellott & McAllister, 4 Crawford
 Enterprise Contracting Co. (Masonry, Trestles, etc.), Fulton bldg
 Fair, D. M. & Son (General), 6101 Penn av
 Felkel, F., 1234 Greenfield av
 Ferguson Contracting Co., Keystone bldg
 Fishburn, S. S. (Sewer & Public Work), 5020 Liberty av
 Foley, Patrick Co. (General), 12 Wabash
 Fort Pitt Contracting Co. (General), 202 9th
 Francis, H. H., 906 Adelaide
 Friday & Co., 331 4th av
 Gillespie, T. A. Co., Westinghouse bldg
 Hagy, Elwood K., 5518 Claybourne
 Havens, Fred A. & Co. (Builders, etc.), 16th & Chestnut
 Henderson, John T., 139 Beltzhoover
 Howley Construction Co. (R. R., etc.), 237 4th av
 Howley, John F. & Co., 237 4th av
 Howley, Wm. E. (General), Frick bldg Annex
 International Construction Co. (Sewer, Paving & General Public Work), 119 W Ohio
 Iron City Construction Co., 5928 Penn av
 Jeukins Bros. (Excavating & Grading), 3312 Penn av
 Keeling & Ridge Co. (Paving, etc.), 2031 Sldney
 Kerbaugh, H. S. (Inc.) (Railroad & Public Work), Frick bldg
 Kerr's, Wm. Sons (Large Builders), Lewis blk
 Kimber, Hugh D. Construction Co., House bldg
 Kiscock, Wm. (Grading), 2209 Bedford av
 Krall, John H., 119 Shady av
 Krantz & McCoy (General), Red & Soho
 Kreusler, H. L. (General), 3301 Penn av
 Lambie, C. S. & Co., Fitzsimmons bldg
 Lawton, Alfred, 3384 Webster av
 Lee, Chas. E., 820 Wood
 Lougeay, Robert P., Douglas & Shady avs
 Lucius Engineering & Contracting Co., Hartje bldg
 McClarren, J. H. Co., Farmers' Bank bldg
 McClellan, J. E., 1722 Forbes
 McDonald, C. I. & Co. (Sewer & Public), House bldg
 McFarland, Thomas W., 2d & Johnston avs
 McKnight, Alex. (General), 4507 Forbes
 McLaughlin Contracting Co., 223 4th av
 McNally, Thos. Co. (R. R., Masonry, Paving, Sewer, etc.), Bates & 2d av
 McQuade, Jas. H. Co., 335 Water
 McSpadden, J. C. (Public Work), 326 4th av
 Masi Bros. & Somma Co. (Grading, Excavating, etc.), 95 Westmoreland
 Maynard & Flynn, 424 4th av
 Miller, Wm. & Sons Co., 23 Federal
 Monongahela Construction Co. (Masonry, Grading, Coal Tipples & Heavy Buildings), House bldg
 Moran-Phelan Contracting Co. (General), Keystone Bank bldg
 Murphy, T. B., House bldg
 Murphy & Hamilton, Heeren bldg
 O'Herron, M. & Co. (General), 1st & McKean
 Ott Bros. (Sewer, Paving, Macadam, etc.), 414 Wash'n av
 Patton & Gibson Co. (Masonry, Tunnel & Steam Shovel Works), House bldg
 Payne, Wm. J. & Sons Co., Beltzhoover & Washington avs
 Peabody-Filbert Co. (Paving, etc.), Hamilton av
 Pennsylvania Construction Co., 209 9th
 Phoenix Construction Co., House bldg
 Pihl & Miller, Wabash bldg
 Pitt Construction Co., Fulton bldg
 Pittsburgh Construction Co. (Round Houses, Mill Building, Grading, Masonry, etc.), Diamond National Bank bldg
 Pottmeyer, J. E. (Excavating, Grading, etc.), 247 37th
 Rahe, Joseph Co., 614 Bingham
 Reiter, Curtis & Hill, Arcade bldg
 Riddle, David T., Fulton bldg
 Robinson, Wm., 310 Meyran av
 Sawders, Frank P. (Grading), 109 44th
 Scanlon, Eugene (Excavating, etc.), 6233 Station
 Scanlon, John T. (Excavating, etc.), 901 Ivanhoe
 Scofield Co., Penna bldg
 Scott, John F. & Co., 219 6th
 Shenk, Henry Co. (Builders, etc.), Lewis
 Sheets, J. B. & Co. (General), Kelly blk
 Shirk, Harry E., 7597 Kelly
 Sims, Chas. A. & Co. (Railroad & Public), Skelly, Thos. J., 7110 Chaucer Arrott
 Southwestern Construction Co. (Railroad & General), West End Trust bldg
 Staffler, Henry E., 364 S Atlantic av

STEWART, JAS. & CO. (Harbor, Marine & Heavy Buildings), Westing-house bldg
Stitzer, James Herbert, Jr. (Foundations, Buildings, Concrete, etc.), 12th & Chestnut
Stratton, Lewis & Co. (Public Work), 327
Swartz, George, 115 Lorenz 1st av
Sweeney, Thos. & Co. (Sewer), 306 Cypress
Tennis Bros. Co. (Railroad & Public Work), 336 4th av
Thompson-Starrett Co. (Building Construction), Frick bldg
Toncle Engineering & Construction Co., Empire bldg
Twin City Construction Co., Lewis blk
Umstead, J. C., Bakewell bldg
Wilson, A. & S. Co. (Large Builders, etc.),
Wochley, J. J., 4800 Penn av 541 3d av
Wright, R. S., Bessemer bldg
Wyman, J. G. & Co. (Excavating & Grading), 434 4th av
Wymard, John K. (Paving & General), 915
Yeager, Fred'k A., Fulton bldg Gerritt
Zehnder, Wm., 1341 Point View
PITTSBURGH—Brenton, William C.
O'Boyle & Foy
POTTSTOWN—Missimer, Horace H.
Willauer, Wm. & Son (Railroad & Public Work)
POTTSVILLE—Kerns, Thomas F. & Son
King, Charles F.
McAdams, Wm. (Masonry & Public)
Portland Contracting Co.
READING—Ahrens, Howard E. & Bro. (Stone, etc.), 622 Court
Barth & Son, 1327 Buttonwood
Dechant, Wm. H., 536 Penn
DeMaio, A. & Co., 215 Penn
Fisher, Charles H., 2d & Chestnut
Focht, L. H. & Son (Builders, etc.), Baer bldg
Hawman Bros. (Public Work), 13 S 10th
Hawman, P. Frank (R. R. & Public), 231 S 4th
Huyett, Garson M., Centre av ab limits
Kretz, Francis C., 120 N 10th
Mayer, Jacob (Masonry & Excavating), 132 Penn
Mertz & Christman, 631 Washington
Nolan Bros. (Railroad, etc.)
O'Reilly, Joseph, 411 Chestnut
Rehr & Fricker (Large Builders, etc.), 124
ROCHESTER—McDonald & Hartman Cedar
SCRANTON—Burke Bros., Connell bldg
Deubler, M. L. Co.
Flanagan, John (Sewers), 1008 Hampton
General Contract & Construction Co.
Hower & Stender, Jefferson av & Ash
Kingsley & Westcott (Masonry, etc.), 119 Wyoming av
Lathrope, Shea & Henwood Co., Board of Trade bldg
Parrish, Justin E., Connell bldg
Ruch, George W. & Co., 405 S Main av
Ruddy, Michael J., 421 Lackawanna av
Sprague & Henwood (Prospecting), Board of Trade
Stipp, M. Construction Co.
Woelkers, Bellman & Zitzelman, Nears bldg
SHARON—Baker & Taylor Co.
McIntyre & Son (Sewer, etc.)
SHENANDOAH—Britt, Wm. (Paving)
SWISSVALE—Van Meter, J. H. (Sewer, etc.)
UNIONTOWN—Burchival & Frankberry (General)
Carr, Jno. D.
Conn, J. P.
Eggers & Graham Lbr. Co.

Humbert & Co.
Reagan, Lynch & Co.
WASHINGTON—Hallam Construction Co.
Pickett, Wm. & Co.
Shay & Murphy
Zelt Bros.
WAYNESBURG—Waynesburg Engineering & Construction Co.
WEST CHESTER—Corcoran Bros. (Street, etc.)
Farrell, T. E. & E. B. (Public Work)
O'Connell Construction Co.
WILKES-BARRE—Broadhead Contracting Co. (Public Work)
Carle & Reilly (Excavating, etc.), Simon Long bldg
Dickover, George T. (Heavy Masonry, etc.), Simon Long bldg
Gibbons & Co. (Sewer & Public), 260 Park av
Jones, Thomas E.
Shiber, Charles C.
Standard Construction Co., Laning bldg
Wilkes-Barre Construction Co. (Sewer, Paving, etc.)
WILKINSBURG—Eckert, A. E.
Lindsay, W. A.
Peffer, E. Z.
WILLIAMSPORT—Bennett & Woodnut
Busch & Stewart
Coryell Construction Co. (General)
Stuempfle's, David Sons
YORK—Dobbling, John H.
York Stone Macadamizing & Grading Co.

RHODE ISLAND.

CENTRAL FALLS—Dolan Bros. (General)
EAST PROVIDENCE—Whitford, Stephen A.
NEWPORT—Darling & Slade
Sullivan, Jeremiah K.
PAWTUCKET—Kirk, R. H. (Dams, Mills, etc.)
Rowley, Frank G. Co. (Heavy Construction)
Smith, Benj. F. Co. (Large)
PROVIDENCE—Bishop, J. W. Co. (Builders & Public Work), Butler Exchange
Chapman, W. A. & Co. (Mills & Public), Industrial Trust bldg
Famiglietti, R. & V. N. (Sewer, etc.), 539 Charles
Gammino, Frank A. & Son (Sewer, Water Works, Highway, Railroad, etc.), 139 Spruce
Hartwell & Kingston (Large Builders), 49 Westminster
Hathaway, C. H. Co. (Mill Construction)
Houlihan, Michael J. (Large Builders), 29 Eagle
Humes, Cruise & Smiley, Equitable bldg
Maguire & Penniman (General & Building), 48 Custom House st
Murray, Jos. M. (Excavating & Grading), 96 Calla
Norcross Bros. Co. (Builders & Public Work)
Perry, T. A. (Sewer), 75 Westminster
Sand Filtration Corporation of America (Water Works, Hydraulic Structures, etc.)
Sayles Co., 86 Weybosset
Tank & McKinnon Construction Co. (Excavating, Dams, River, etc.)
Shaw, Fred'k E. (Sewer & Public), 75 Westminster
Watson, E. K. Co., 75 Westminster
WESTERLY—O'Neil, Eugene (Excavating & Grading, etc.)

SOUTH CAROLINA.

CHARLESTON—Culliton, Patrick P. (General), 234 Calhoun
COLUMBIA—Cain, John J.
GREENVILLE—Grandy & Jordan
Jamison & Morris
SPARTANBURG—Hertzog, J. P. & Son
Martin, J. B.
Tenney, George O. (Large)

SOUTH DAKOTA.

ABERDEEN—Lepper, Casper
SIOUX FALLS—Campbell, Neil

TENNESSEE.

BRISTOL—Hughes, John V.
CHATTANOOGA—Beecher & Brown Construction Co.
Bosler & Flinn
Chickamauga Quarry & Construction Co. (Heavy Masonry, etc.)
Clem, David W., Chamberlain bldg
Dewey, J. J. & Co.
Guild & Co. (Engineers & Contractors)
Moudy, Theodore S., Chamberlain bldg
Noll Construction Co.
Noll & Thompson
Southern Paving & Construction Co.
West Construction Co., Chamberlain bldg
Westcott, R. L., Chamberlain bldg

KNOXVILLE—Callahan Construction Co.
Galyon, L. A., 612 S Gay
Galyon, George T., 516 S Gay
Oliver, W. J. (Railroad & Public)
Rodes, J. E. & Co. (Railroad & Public)
Smith, John B.
Thomas & Turner
MEMPHIS—Andre & Howard, Builders' Ex.
Cary Bros. (Railroad, Levee, etc.), 282 Jefferson
Creson, Robert F., Builders' Ex.
Emmons, D. & Co., 61 Madison
Garvin Construction Co. (Sewer, Excavating, etc.), 691 Bradford
Higbee & Weatherford (Grading, etc.), 72 Madison
Hunter, Charles W. (General), 67 Monroe
Johnson & Fleming (Water Works, etc.), Tenn. Trust bldg
Koehler Bros. & Franklin (Sewer, etc.), 86 Madison
Leonard, Robert L. (Levee, etc.), 1678 Monroe av
Manigan, Edward J., Scimitar bldg
Miller, Charles R. Paving Co. (Sewer & Paving), S N Front
Mitchum, Charles H. (Excavating, etc.), 685 Kerr
Montville, L. Construction Co., Randolph
Olson & Lesh (General), Royal bldg
Outzen, Andrew (Levee & General), 518
Pritchard Bros., 642 Florence av Mosby
Roach, M. J. & Co. (Levee & General), Scimitar bldg
Selden-Breck Construction Co., Tenn. Trust bldg
Smith, C. D. & Co., Memphis Trust bldg
Southern Improvement Co. (Grading, etc.), 30 N 3d
Talley, Bates Construction Co. (Levee & General), 68 Court
Tighe, M. H. (Excavating, etc.), Builders' Ex.
Wagner, C. J. (General & Building), 664 Ragland av
Young, Fred'k B. (General), Builders' Ex.
Zimmerman & Stevens, 962 Lane av
NASHVILLE—Ford, Bacon & Davis, 331 3d av, N
Foster & Creighton (General), Berry blk
Kincaid & Co., 214 4th av, S
Lewis, E. T. Co. (General), 61 Arcade
Lightman, Joseph (Heavy Masonry, etc.), 336 E Side Court sq
Regen, J. B. & Co., 218 Maxwell House al
Sinnott, H. T., First National Bank bldg

TEXAS.

BEAUMONT—Gulf Construction Co. (Railroad & Public)
H. & H. Teaming Co. (Grading, etc.)
Kenefick-Hammond-Quigley Construction Co.
Myrick Construction Co. (General)
Noon, J. A. (Railroad, Grading & Pipe Line)
DALLAS—Black & Laird (Sewer, etc.), Trust bldg
Knight & Kenyon, 257 Crutcher
Olsen, B. G. & Son, 1037 Main
Vilbig Bros. (Excavating, etc.)
Vivian & Ennison (Excavating, Grading, Sewer, etc.), 180 Swiss av
EL PASO—Caples, Powers & O'Connor
Holmes Supply Co.
Wadlington, John Y. (Excavating, etc.)
FORT WORTH—Bryce, William
General Supply & Construction Co.
Hawkins, Luther J. (Grading, etc.)
Hutt, J. E. Contracting Co.
McCullum-Crandall Construction Co. (Sewer, Paving, etc.)
McFadden, Andrew J. (Grading, etc.)
United States Construction Co.
GALVESTON—Byrnes, J. W. & Co. (General)
Clarke, Charles & Co. (River & Harbor)
Heffon, Isaac (General)
International Creosoting & Construction Co.
Ketchum, Edwin N. Grading, etc.)
O'Rourke, J. M. & Co. (General)
Ricker & Lee (Railroad, Paving, etc.)
Smith, George E. & Sons
Suderman & Dolson
Wheeler, Stuart (Road & Grading)
HOUSTON—Couch, Thomas W. (Excavating, Grading, etc.), 1209 Chapman
Delery, W. S. & Co. (General), Cotton Ex.
Dupree, Edmond F. (Excavating, Grading, etc.), Opera House bldg
Hipp, W. S. (Paving, Grading, etc.), c Baker & Walnut
Humphreysville, W. E. (Paving, Sewer, etc.), 704 Main
Johnson & Read, Commercial Bank bldg
Key, Alonzo (General), 2218 Crawford

When writing to firms
whose names appear
in this book please
mention

HENDRICKS'
COMMERCIAL
REGISTER.

Parker Construction Co., Masonic Temple
Southern Contracting Co., 910½ Texas
Suderman, Dolan & Co. (General), 215 1-2
Main
Whisenant & Traweck (Excavating, etc.)
Louisiana & Prairie av
WACO—Jackson, Willard E. (Grading, etc.)
Ockander Bros. (Sewer, Paving, etc.)

UTAH.

OGDEN — O'Neill, J. P. Construction Co.
(Street, Sewer, etc.)
Utah Construction Co.
SALT LAKE CITY—Baxter, Straw & Storrs
Construction Co.
Bollwinkel Bros. (Grading, Excavating,
etc.), 151 Center
Clement & Strange (Excavating, Grading,
etc.), Dooly bldg
Holt, John (Excavating, Grading, Railroad,
etc.), 430 E 5th, S
Kennedy, James (Excavating, Sewer, etc.),
Nichols, George H., Dooly bldg Atlas blk
Page, Hubert D. (Sewer, Waterwork, Grad-
ing, etc.), Atlas blk
Palmer & Tate (Grading, Paving, etc.), At-
radebaugh & Eckert, 150 N Main las blk
Showell Bros. Belcher (Excavating, Grading,
Heavy Masonry, etc.), Atlas blk

VIRGINIA.

HAMPTON—Holtzclaw Bros.
Richardson, R. H. & Son
Tennis Construction Co.
Trice, G. E. & Co. (Excavating, Grading,
etc.)
LYNCHBURG—Gleaves & Co. (etc.)
Hancock, C. W. & Son
Jones & Adams
Pettyjohn, J. P. & Co.
NEWPORT NEWS—Alsop & Peirce
Harwood & Moss
Morgan, E.
Timberlake, L. B. (Excavating, etc.)
Wallace, Alexander D.
NORFOLK—American Contracting Co., Colum-
bia bldg
Atlantic Engineering & Construction Corp'n
(Bridges, Railroads, Water Power, etc.),
National Bank of Commerce bldg
Bartlett-Drew Co., Columbia bldg
Bates & Rogers Construction Co.
Betts-Hayden Construction Co.
Cesery, A. & Co., Atlantic bldg
Denby Grading Co., Board of Trade bldg
Freeman, Arthur C., Jr., Bank of Commerce
Hanley-Casey Co., Atlantic bldg
Johnson, Jephtha W. (General), Citizens Bank
bldg
Murray, W. D. & Co. (Government Work),
234 Main
Norfolk Dredging Co. (River & Harbor), 217
Water
Parlett, C. R. (General), Lowenberg bldg
Pierce, John H., Atlantic bldg
Sanford & Brooks (Railroad, Dredging, Har-
bor & Government Work), Sanford bldg
Southern Contracting Co. (Inc.) (General),
Bank of Commerce bldg
Trice Transfer Co. (Inc.) (Grading, etc.),
11th & James
Triune City Construction Co. (Foundation,
Railroad, etc.)
Tyree Bros. (General), Lowenberg bldg
Virginia Construction Co., 65 Plume
PETERSBURG—Atlantic Dredging Co. (River
& Harbor, Railroad, Canals, etc.)
Brister & Harrison
Perkinson & Flinn
PORTSMOUTH—Dalby, Nottingham & Co.
RICHMOND—Barry, Thos. A. & Co., Times
bldg
Bradley, W. B. Cons. Co., Dock nr 17th
Burgwy, O. P. E. (River & Harbor, Water-
works, etc.)
Chesterman, Wirt A. (General), Chamber of
Commerce bldg
Dietrich, Geo. A. & Bro., 2701 E Main
Ellis, G. W. & Son, 306 N 21st
Johnson, L. D. & Bro., 1424 E Main
Netherland & Eubank, 2701 W Cary
Pennock, J. E. & A. L. (General), American
National Bank bldg
Phillips & Allport, 1110 E Main
Thomas, Joseph W., 408 N 5th
Urban, Herman S. (Excavating, etc.), 4 Park
Wilson, John T. (Builder & General Con-
tractor), Mutual bldg
ROANOKE—Flickwlr, David W., Terry bldg
MacArthur Bros. Co.
Sands & Oliver (Railroad & Public)
Vaughan, L. H. & Co.

WASHINGTON.

ABERDEEN—Crech Bros. Contracting Co.
BELLINGHAM—Lind, C. E. (Grading)
EVERETT—Everett Improvement Co.
Thorzig, A. & Co.
NORTH YAKIMA—Scott, Robert
SEATTLE—Beattie, Charles H., Arcade bldg
Bell, Price & Co. (General), Marion blk
Bringham & Hoska (General), Colman bldg
Bromley & Wells (General), Starr-Boyd bldg
Bruce, J. M. & Co., Pacific blk
Cawsey & Carney, Washington bldg
Dietrich, George C., Alaska bldg
Driver, Geo. (General), New York blk
Erickson, C. J. (Sewer, etc.), 1512 5th av
General Contracting Co., Globe blk
Geske, Chas. (General), Pacific blk
Goerig, A. C. (General), 315 Columbia
Hamill, Robert L. (Grading, etc.), New York
blk
Hastie & Dougan (General), Washington
bldg

Holt & Maguire (General), 302 Harrison
International Contract Co. (General), New
Lance & Peters, Oriental blk York blk
Layton & White (General), Washington bldg
McLellan, F. & Co. (General), Burke bldg
Macquaid, J. Frank (General), Arcade bldg
Miller, Christian, Pacific blk
Pacific Coast Development Co., Marion blk
Pacific Construction Co. (General), Dexter
Horton Bank bldg
Puget Sound Bridge & Dredging Co. (Dredg-
ing, Bridges, Foundations, Piers, Harbor,
etc.)
Rounds, E. J. & Co. (General), Boston blk
Ryan, T. & Co. (General), Sullivan bldg
Seattle General Contract Co. (General),
Alaska bldg
Stanley, Wm. & Co. (Sewer, Railroad, etc.),
Burke bldg
Stirratt & Goetz (Sewers & Public), Bailey
Walter, Malcolm H., Alaska bldg
Williams, Charles L., New York blk
Woock & Behrens, Oriental blk
SPOKANE—Broad, James C., 2115 Dean av
Burns & Hall, 123 2d av
Costello, Peter (Sewer & Public), 309 Wall
Forrest, John W., Hyde blk
Hastie & Dougan, Hyde blk
Hughes, Peter, 01915 Ash
McCreary & Willard (Railroad & Public),
Hyde blk
Mallett, Charles E., Exchange Bank bldg
Mitchell Bros. (Excavating, Grading, etc.),
1222 3d av
Peirson, C. L. (Excavating, etc.), E 407
Mission av
Porter Bros. (Railroad & Public), Peyton
Rollinson & Laslett, 1728 Mallon av bldg
Skinner, H. J. (General), The Rookery
Sweatt & Wallace, Hyde blk
Turnbull, Andrew, S. 173 Stewens
Twohy Bros. (Public Work), Marble Bank
Walsh, J. J., Marion blk bldg
Weber, Groshoff & Williams, 6 Bernard
Welch, P. & Co. (Public Work), Peyton bldg
Winters, Parsons & Boomer (Public), Ziegler
blk

Wren & Greenough (Railroad & Public)
TACOMA—Contracting-Engineering Co., Provi-
dent bldg
Cowan & Black (General), 735 South D
Dibble-Hawthorne Co., National Bank of
Commerce bldg
Drewes, C. A. & Co., 505 S 9th
Dykeman, G. L., California bldg
Elmore, C. D. (Grading), S 13th & De Lin
Frace, Jas. A. & Son (General), 902 A
Hastie & Dougan (General), 952 Pacific av
Hopping, Daniel P., 941 Commerce
Jacobs, Winfred S., 309 S 9th
Keasal, F. A. (Railroad, Bridge, Grading,
etc.), Provident bldg
Lister Construction Co., 613 St Helens av
McHugh, Frank & Co. (Excavating, Grad-
ing, etc.), 1815 S G
Northwest Bridge Co. (General), Bernice bldg
Savage, Geo. M. & Co., National Bank of
Commerce bldg
Scott & Saddoris (Excavating, Grading,
etc.), 56th & Lawrence
Tacoma Bridge Co. (Inc.), 1201 Pacific av
Warren Construction Co., 1105 A
WALLA WALLA—Balderson, Armour & Baker
Caris, C. S. (Excavating, Grading, Railroad,
etc.)
Walla Walla Construction Co. (General)

WEST VIRGINIA.

CHARLESTON—Calderwood, A. C. (General)
Davidson, W. F. & John
Davis & Sons

Gresham & Boyd
Wilcher, Jas. (Sewer)
Withrow, A. F. & Co.
CLARKSBURG—Richards Construction Co.
Scott, Richard & Co.
Virgie, W. B. & Co. (General)
FAIRMONT—Hamilton & Huffman (Grading,
Talbot, D. F. (Grading) etc.)
HUNTINGTON—Trainer, Amos T. (Sewer)
MORGANTOWN—Zevly-Casto Construction Co.
PARKERSBURG—Brady Construction & Engin-
eering Co.
Curry, J. W. (Grading)
Van Cliff, F. R. (Grading)
WELLSBURG—Davies, J. G. W. (General)
Provines & West
WHEELING—Fort Henry Construction Co.
Grafton Construction Co.
Hamilton, N. C. & Son
Murray Bros.
Phoenix Construction Co.
Security Construction Co.

WISCONSIN.

APPLETON—Green & Sons Co. (Paving, Sewer
& Public)
Hackworthy Construction Co. (Masonry &
Public)
ASHLAND—Paulson, John A. (Public)
BELOIT—McGavock Bros. Construction Co.
Schneiberg Bros. (General)
CHIPPEWA FALLS—Chippewa Falls Construc-
tion Co. (Stone, Builders, etc.)
Lister, William
EAU CLAIRE—Chippewa Valley Construction
Fish, E. M. Co. Co.
Lang & McNulty
FOND DU LAC—McCabe, Jas. H. (Public
Prasser, Jno. (Sewer) Work)
Schoenlaub, Louis (Paving, etc.)
GREEN BAY—Delaney, James K. (Public
Green, Adolph (Public Work) Work)
Grieling, Charles H.
Lagers, Peter (Masonry & Sewer)
JANESVILLE—Hayes Bros. Co. (General)
Janesville Contracting Co.
Ryan, P. W. (Grading)
KENOSHA—O'Brien, James H. (Excavating,
Parsons, Elmer (Sewer) etc.)
Scott, Thos. S. (Excavating, Grading, etc.)
Sereshon, Jno. (General)
LACROSSE—Bacheller, N. C. (Sewer)
Fetter & Crosby (River & Harbor Improve-
Groff-Deer Construction Co. ments)
La Crosse Dredging Co. (General)
Mead-Funk Co. (Sewer, Paving, etc.)
Woolley & Hanson (Sewer, Street, etc.)
MADISON—Blake Bros. (General)
Delaney, J. D. (Public)
Keachie, George R. (Street)
McCarthy, T. C.
Quinn, Nicholas (Street & Sewer)
MANITOWOC—Gray, I. W. & Co. (Sewer)
Keith, J. H. & Co. (Bridging, Pile Driving,
Foundations, Dock Work & Heavy Con-
struction)
Trestich & Hermann
MARINETTE—Brown Dredge Co. (Lake & Har-
bor)
Utke, Julius
MILWAUKEE—Badger Construction Co. (Gen-
eral), 105 Grand av
Beck, C. Co. (General), 1150 Kinnickinnic av
Colonial Construction Co., Pabst bldg
Columbia Construction Co., 416 Colby
Donahue, J. H. & Co. (General), 976 Cam-
bridge av
Foster Construction Co., 14 Grand av
General Construction Co. (General), Hath-
away bldg
Gillen, Wm. H. (General), 204 Grand av
Graham Construction Co., Free Press bldg
Gutknecht, Wm. (Grading), 1069 8th av
Hathaway, J. E. & Co. (General), Canal &
W 1st av
Heiden & Gumz (Excavating, etc.), 831 13th
Hickey, Richard J., 204 Grand av
Luenzmann, Frank Co., 1912 Prairie
McIntosh Bros., Pabst bldg
Meredith Bros. Co., 1043 Kinnickinnic av
Newton Engineering Co., 106 Mason
Northern Construction Co. (General), 106
Mason
Northern Contracting Co. (General), 290 3d
Riesch's, Paul Sons, 111 Mason
Shea Bros. (Public Work), 1002 Lincoln av
Sprague, Chas. A., 82 Wisconsin
Starke, C. H. Dredge & Dock Co. (Public
Work), Canal nr 1st av
Volkmann, Chas. & Co. (General), Pabst bldg
Zimmerman, Geo. E. (Sewer), 3102 McKinley
boul
OSHKOSH—Johnson, Chris. (Sewer & Paving)
Larson, Louis A. (Public Work)
Rasmussen, John & Son (Sewer, Excavat-
ing, Grading, etc.)
PRAIRIE DU CHIEN—Steiner Bros. (General)

RACINE—Birdsall, R. R. (Public Work)
Cape, Jas. & Sons (Sewer, Paving, Excavating, etc.), 468 Water
Galloway, P. W. (Sewer & Street), 1700 W 6th
Gillen, Edw. Dock, Dredge & Construction Co. (Harbor & Public)
Harding, Abel G. (Sewer)
Harding & Nelson (Sewer, Public & Water Works)
Jones, John O. & Sons (Sewer & Public)
Reichert Construction Co. (Sewers & Public)
Williams, Alfred A. (Grading, etc.)
SHEBOYGAN—Nommensen, Richard (Sewer & Paving)
Wonsler, Edward
SUPERIOR—Barnett & Record Co. (General)
Berg & Olson (General), 1019 Ogden av
Dahl, E. A. (General), 1109 N. 6th
*Erickson, J. E. (General & Railroad)
Frankman Bros. & Morris (Railroads, Bridges, Docks, etc.), Breunig blk
Hanratty, Peter, 1704 N 6th
Lake Superior Contracting & Dredging Co.
Larson, Daniel, 804 Ogden av
McKenzie & Arris, 1708 Winter
Schmidt Bros. (General), Truat bldg
Shunn, W. H., 1910 Winter
Whitney Bros. (Dock, etc.), N 1st c Hughitt
Zachau, August (General), 320 W 1st av
WATERTOWN—Bartlett, Edw'd L. (Sewer, Paving, etc.)

Contractors (Heavy Masonry)

(See Contractors, General.)

*Contractors (Paint Spraying, by Compressed Air)

STANDARD PNEUMATIC SPRAY CO.
(also Waterproofing, Dampproofing, Fireproofing & Disinfecting), 500 5th av, New York. (See adv. index, end of book)

Contractors (Paving)

(See Contractors, General; also Contractors, Asphalt Paving; also Cement & Concrete Pavements.)

Contractors (Pile Driving)

(See Pile Driving Contractors.)

Contractors (Railroad)

(See also Contractors, Electric Railway; also Contractors, General.)

ALABAMA.

BIRMINGHAM—Dunn & Lallande Bros.
Hodges & Mimms
MacAfee Co.
Rodgers, J. K.
Vaughan & Son
MONTGOMERY—Sullivan, J. M.

CALIFORNIA.

LOS ANGELES—Alsop Engineering & Construction Co., Trust bldg
Bright & Drew, Wilcox bldg
Coleman, R. R., 2324 S Flower
Grant Bros. Construction Co., Trust bldg
Lantry-Sharp Contracting Co., Germain bldg
Masten & Masten, Henne bldg
SAN FRANCISCO—Dundon Bridge & Construction Co., 225 Folsom
Erickson & Petterson, 325 Montgomery
Healy-Tibbitts Construction Co., Mission st
Hyde, Harjes & Co., 13 Stuart dock
Laydon, Darby, 219 Steuart
McMahon, Jas. A., 13 Steuart
Pacific Improvement Co., Geary & Buchanan
San Francisco Construction Co., 636 Market

COLORADO.

DENVER—Bradbury, W. C. & Co., Railroad bldg
Orman & Crook, Majestic bldg
Streeter & Lusk, Railroad bldg
Teller, Jno. C., Equitable bldg
PUEBLO—Orman & Crook

CONNECTICUT.

HARTFORD—Keenan, D. F., 721 Main
NEW HAVEN—Blakeslee, C. W. & Sons, 58 Waverly
NEW LONDON—Fitzgerald, J. E. Const'n Co.
NORWICH—Torrance, Archibald

FLORIDA.

JACKSONVILLE—Cotter, Wm. T.

GEORGIA.

ATLANTA—Chattahoochee Brick Co., Fourth National Bank bldg
SAVANNAH—Power, D. & Co.
Ross, P. Sanford, 16 Bryan, E.

ILLINOIS.

CHICAGO—American Ballast Co., 188 Madison
Austin, F. C. Drainage Excavator Co., Railway Exchange bldg
Bates & Rogers Construction Co., 355 Dearborn
Bracey, Smith H., 143 Dearborn
Brown, Fred'k S., 240 La Salle
Christie & Lowe, 171 La Salle
Collins Cons. Co., 92 La Salle
Congress Construction Co., 140 Dearborn
Co-Operative Construction Co., Monadnock bldg
Dorwin, W. E. & Co., 9 Jackson boul
Fitz Simons & Connell Co., Tacoma bldg
Hauser Co., 271 Madison
Heidenreich, E. Lee, 189 LaSalle
Henderson, Horace P., 225 Dearborn
Hopkins, Wm. H., 4058 Lake av
Illinois & Wisconsin Cons. Co., Stock Ex.
Inland Cons. Co., 143 Dearborn bldg
Kearns, Thos. A. Co., 279 Dearborn
Kenefick Cons. Co., The Rookery
Kinser Cons. Co., 9 Jackson boul
Kohler Bros., Fisher bldg
Lorimer & Gallagher Co., The Rookery
MacArthur Bros. Co., 277 Dearborn
National Construction Co., Tacoma bldg
Newman, W. J. Co., 84 La Salle
North Am. Ry. Construction Co., Monadnock blk
Patton & Gibson Co., 9 Jackson boul
Phee, Thos. & Co., Grand Central Depot
Republic Construction Co., 108 La Salle
Ross Construction Co., The Rookery
Scribner, Gilbert H., Jr., 184 La Salle
Weymouth, Harry, 125 LaSalle
GARDNER—Allison, W. S.
ST. ELMO—Johnson, F. W.
Johnson, P. M. & Co.

INDIANA.

BRAZIL—Fitzpatrick Bros.
EVANSVILLE—Tennis Co.
Whitehead, Bennett
GREENSBURG—Pulse & Porter
INDIANAPOLIS—Alderman, J. W. & Co., Traction Terminal bldg
American Engineering Co., Traction Terminal bldg
French & French, 525 E Washington
Keystone Construction Co., Traction Terminal bldg
Love, Wm., 20 Aetna bldg
Moore-Mansfield Construction Co., Board of Trade bldg
Yawger, A. J. Co., Fair blk
RICHMONT—Johnson, B. & Son
TERRE HAUTE—Guilfoill Contracting Co.
Kinser Construction Co.

IOWA.

CEDAR RAPIDS—Connor, A. H.
Johnson, W. O. & Sons
Murray Bros.
DAVENPORT—Tri-City Construction Co.
DES MOINES—Magden & Sheeley
KEOKUK—Cameron, McManus & Joyce
Cameron & McManus
McManus & Tucker

KANSAS.

COTTONWOOD FALLS—Chase County Stone
KANSAS CITY—Randall, L. H. 913 Pyle Co.
STRONG—Lantry-Sharp Contracting Co.

KENTUCKY.

FRANKFORT—Mason, Hanger & Coleman Co.
HENDERSON—Manlon, Edw.

LOUISIANA.

NEW ORLEANS—Christie & Lowe, Norris bldg
Congress Construction Co., Basin c Congress
Scott, Nathaniel G., Hennen bldg

MAINE.

LEWISTON—Bearce & Clifford Construction Co.
PORTLAND—Shannahan, Richard D., 221 Franklin

MARYLAND.

BALTIMORE—Douglas, Gilmer & Co., 211 E Jones, T. B., Fidelity bldg Fayette
Fidelity Construction Co., Continental bldg
McCabe, Jas. F. Co., Equitable bldg
McLean Contracting Co., Maryland Trust bldg
Newhall & Co., American bldg
Sanford & Brooks Co., 15 South
CUMBERLAND—Carrigan, Mathew
Humbird, James & Co.
Whalen, Jeremiah
FRIENDSHIP—Ferguson, Geo. A. & Co.

MASSACHUSETTS.

BOSTON—Cram, D. H., Power, opp 702 Dorchester av, S B
Cushing, Patrick, 400 Harvard, Dor.
Turner, H. G. & Co., 20 Central
FITCHBURG—Coolidge, Marcus A.
LOWELL—Ward, Wm. H., 241 Howard
PALMER—Flynt Building & Construction Co.
SOUTH FRAMINGHAM—Fales, A. & Son Co.
SPRINGFIELD—Ley, Fred. T. & Co.
Merrill, Geo. N. & Co.
Wright, A. H. & Son
UNBRIDGE—Newell & Snowling Construction
WEST NEWTON—Mague, W. H. Co.
WOBURN—Ellis, J. M.
WORCESTER—Kelley, Jno. F. Co., 57 Barclay
Page Electric Co., 24 Pearl

MICHIGAN.

DETROIT—Detroit & Toledo Construction Co., Penobscot bldg
Griffin, M. J., 104 Lafferty pl
Lennane Bros., Peninsular Bank bldg
Ryan, Michael E., 52 Wilkins
IRON MOUNTAIN—Marsch, Jno.
SAGINAW—Sager, Peter

MINNESOTA.

DULUTH—Hall, Carl & Co.
McDonnell, Patrick, 124 W Superior
Minnesota Land & Construction Co., Lyceum bldg
Porter Bros., Manhattan bldg
MANKATO—Widell & Co. (Stone)
MINNEAPOLIS—Balch, H. F., Century bldg
Brown, G. W., Masonic Temple
Dempsey & Dougherty, Globe bldg
Evans, R. R., Temple Court
Lasley, W. M., 100 Temple Court
Linton & Co., New York Life bldg
Peppard, L. O., 2311 Bryant av, S
Winston Bros. Co., Globe bldg
ST. PAUL—Brennan, E. J., Endicott bldg
Butler Bros. Construction Co., New York Life bldg
Church, H. W., German Life bldg
Dale & Bumgardner, Scandinavian Am. Bank
Foley Bros., Gilfillan blk bldg
Guthrie, A. & Co., National G. A. Bank bldg
Hauser, E. V., Gilfillan bldg
Llzee, R. J., Endicott bldg
Newman & Hoy, Chamber of Com. bldg
St. Paul Contracting Co., Germania Life bldg
Siems & Shields, National G. A. Bank bldg
Smith, Grant & Co., Gilfillan bldg
Winston, Edmund T., 699 N Snelling av

MISSOURI.

KANSAS CITY—Blair Contracting Co., 1216 Mulberry
Forrester-Swenson Construction Co.
Kahman & McMurray, Bryant bldg
Kaw Valley Construction Co., Bryant bldg
Kenefick-Hammond Co., Bryant bldg
Kenefick, Wm. Co., Bryant bldg
Lantry-Sharp Contracting Co., Gumbel bldg
Lee, S. N., Argyle bldg
McGee, Peter, E end Belt Line Bridge
McGinnis, B. B., 1003 Harrison
Manning, J. T., Kempter bldg
Mitchell, W. S., 3519 Flora
North American Railway Construction Co., O'Hearn Bros., 106 E 34th Junction bldg
KIRKWOOD—Vaughn, Geo. B. & Son
ST. LOUIS—Abbott-Gamble Co., 620 Chestnut
Anderson, A. & Co., Victoria bldg
Boyce, W. D. Engineering Co., Chemical bldg
Fruhn-Bambrick Construction Co., Chemical
Fruhn & Colnon, Laclede bldg bldg
Hill-O'Meara Construction Co., Wainwright bldg
Midland Contracting Co., Houser bldg
Mound City Construction Co., 706 Chestnut

Robinson, Samuel R. H., Chemical bldg
 Scott, Jno. & Sons, 1200 S Ewing av
 Skrainka Construction Co., Security bldg
STEWART, JAS. & CO., 706 Chest.
 Thompson, J. W., Wainwright bldg nut
 Van Sant, R. L., 421 Olive
SPRINGFIELD—Hedges-Gosney Construction Co.
 Wood Bros. Construction Co.

MONTANA.

BUTTE—Perham, Wallace T.
 Shackelton, John W.

NEBRASKA.

BEATRICE—Kilpatrick Bros.
OMAHA—Callahan Bros. & Katz, Ramge bldg
 Callahan Bros., Phelan & Shirley
 Callahan & Co.
 McShane, J. H. & Co., 303 S 13th
 Owen & Lovelace Contracting Co.
 Phelan & Shirley, New York Life bldg
ORLEANS—Dunlay Bros.

NEW JERSEY.

CAMDEN—Sweeten, B. F. & Son, Cooper & Delaware
JERSEY CITY—Clynes W. Knight Co., 250
 Ross, P. S., 277 Wah'n Varick
 Shanley, B. M. & J. F. Co., 26 Exchange pl
NEWARK—Cullen, W. A., 262 5th
 Shanley, B. M. & J. F. Co., 859 Broad
NEW BRUNSWICK—Riddle, T. H. Constr'n Co.
NORTH LEROY—General Crushed Stone Co.
 (Inc.) (Specialty, Ballasting)
PATERSON—Lee, Jno. R., Second National
 Bank bldg

NEW YORK.

BINGHAMTON—Crary Construction Co.
BUFFALO—Chapman, A. F. & Co., Prudential
 Grattan & Jennings bldg
ELMIRA—Costello & Neagle
NEW YORK—Abbott-Gamble Contracting Co.,
 32 B'way
 Clark & Co., 100 B'way
 Colonial Construction Works, 516 E 72d
 Crimmins, T. E. Contracting Co., 444 E 69th
 Cuzzo, D. & Bro., 150 Nassau
 Degnon Contracting Co., 60 Wall
 Dunu, F. C. & Co. (Inc.), 41 Wall
 Farrell-Hopper & Co., 2105 7th av
 Ferguson Contracting Co., 69 Wall
 Gamble, Jas., 15 William
 General Contracting & Engineering Co., 15
 Whitehall
 International Contracting Co., 17 Battery pl
 Lawson Car Co., 13 Park row
 McDonald, J. B., 32 Nassau
 Naughton & Co., 299 B'way
 Pacific Improvement Co., 60 Wall
 Rodgers, J. C. & Son, 1929 Amsterdam av
 Sorzano, Julio F. (Firm. of), 52 B'way
 Strang, W. B., 15 Wall
 Sundstrom & Stratton, 143 Liberty
OSWEGO—O'Connor, Jno. (Est. of), 116 W
 Bridge
PLATTSBURG—Buckley Construction Co.
ROCHESTER—Casey & Murray, Powers bldg
 Chambers & Grady, Powers bldg
 Denniston & Co., 39 State
SALAMANCA—Miller, Fred.
SYRACUSE—Belden, Alvin J., 621 W Genesee
 Dickinson, Guy B., Kirk bldg
 O'Brien & Hoolihan, 1722 Park
 Smith, Chas., 317 N State
 Syracuse Railroad Construction Co.

OHIO.

BARBERTON—Paul & Henry Construction Co.
 (Steam Shovel Work, etc.)
CINCINNATI—Gest, G. M., Union Trust bldg
 Hazen, L. P. & Co., 5th & Race
 Kirchner Construction Co., 8th & Plum
CLEVELAND—Arnold & Welles, Garfield bldg
 Cleveland Construction Co., Citizens bldg
 Girard Construction Co., Perry-Payne bldg
 Grace, Robert, The Arcade
 Marsch, John, 685 Marcelline av
 Northern Ohio Paving & Construction Co.
 Smth, L. P. & J. A. Co., Williamson bldg
 Standard Contracting Co., Wade bldg
 Strong, Chas. H. & Son, Cuyahoga bldg
 Terminal Construction Co., American Trust
 Tuttle, I. D., Blackstone bldg bldg
 Whilton, Frank P.
 Williams Bros. & Morse Co. (Heavy Mason-
 ry, etc.)

COLUMBUS—Adams, J. T. Columbus Savings
 & Trust bldg
 Close, Chas. J., Harrison bldg
 Hoover & Kinnear Co. (Tunnel, Heavy Ma-
 sonry, Steam Shovel, Grading & Rock
 Work), Deshler blk
 Jones Bros., Harrison bldg
 Luchtenberg, Wm. H. & Co., Wyandotte
 National Engineering Co. bldg
 Carland, J. C. & Co. (Steam Shovel & R. R.
 & Street Paving), Valentine bldg
 Sawyer, C. H., 1518 Madison av
MANSFIELD—Frances, E. H. Sons
TOLEDO—Carland, J. C. & Co.
YOUNGSTOWN—Joyce & Fawcett

OREGON.

PORTLAND—Pacific Coast Construction Co.

PENNSYLVANIA.

ALLEGHENY—Gwinner, Fred., 1801 Market
ALTOONA—Finn Engineering Co.
 Stahl, W. G. & Sons
EASTON—Smith-McCormick Co.
ERIE—Mayer, Henry, 1213 State
GREENSBURG—Bennett & Talbott
LANCASTER—Malone, Richard A. & Co.
 Reilly & Riddle
 Stauffer, Charles F.
LOCK HAVEN—Miller Construction Co.
MAHANOY CITY—Smith & Campion
NEW BRIGHTON—Funkhouser, A. L.
 McGuire, J. G. & Co.
PHILADELPHIA—Boas, F. J., 14 S Broad
 Brendlinger, P. F., Arcade bldg
 California & Texas Railway Construction Co.,
 26 S 15th
 Clement, F. H. & Co., Land Title bldg
 Delaware River & Atlantic Construction
 Co. (Electric), Penna bldg
 Drake & Stratton Co., West End Trust bldg
 Kerbaugh, H. S. (Inc.) (Heavy Grading,
 Track Laying & Bridge Masonry), Arcade
 McGaw & Gray, Penna bldg bldg
 McManus, Patricius, 224 N 32d
 McNichol, P. & Sons, 1316 Race
 Millard Construction Co., Penna bldg
 Pinkerton Construction Co., Land Title
 Reiter, Curtis & Hill, Arcade bldg bldg
 Shanley, B. M. & J. F. Co., Arcade bldg
 Sims, Chas. A. & Co., Harrison bldg
 Sparks & Evans, 14 S Broad
PITTSBURG—Columbia Contracting Co. (Heavy
 Grading, Track Laying & Railroad Bridge
 Masonry), Frick bldg
 Ferguson Contracting Co., Keystone bldg
 Foley, Patrick Co., 12 Wabash
 Hassett, James M., House bldg
 Hoover & Kinnear Co., Keystone bldg
 Howley Construction Co., 237 4th av
 Jacoby, A. H., Keystone bldg
 Kerbaugh, H. S. (Inc.), Frick bldg
 Moran, P. & Co., Ferguson blk
 Murphy, T. B., House bldg
 Patton & Gibson Co., House bldg
 Pennsylvania Development Co., Arrott bldg
 Pittsburgh Construction Co. (Round Houses,
 Mill Building, Grading, Masonry, etc.),
 Diamond National Bank bldg
 Richards-Hawkins Co., House bldg
 Sims, Chas. A. & Co., Arrott bldg
 Stratton, Lewis & Co., 327 1st av
POTTSTOWN—Willauer & Co.
READING—Ahrens, H. E. & Bro., 622 Court
 Hawman Construction Co.
 Hawman, P. F., 231 S 4th
 Nolan Bros.
SCRANTON—Burke Bros., Burr bldg
 Kinsley & Wescott
SOUTH BETHLEHEM—General Crushed Stone
 Co. (Inc.) (Specialty, Ballasting)
WEST CHESTER—Farrell, M. & T. D.
WILKES-BARRE—Broadhead Contracting Co.
YORK—Dobbling, John H.

RHODE ISLAND.

PROVIDENCE—Furlong, J. W. & Co., 46 Be-
 nevolent
 Shaw, Fred'k E., 75 Westminster

SOUTH CAROLINA.

CHARLESTON—Kramer, B. F., 60 Meeting

TENNESSEE.

KNOXVILLE—Baxter, W. C.
 Callahan Construction Co.
 Doyles, James A., Sr.

Edgington, Griffiths & Co.
 Fenton Construction Co.
 Oliver, Wm. J. (Large)
 Rhodes, J. E. & Co.
 Smith, J. B.
MEMPHIS—Cary Bros., 282 Jefferson
 Garvey, G. M., 127 Madison
 Hutton Co.
 Jennings, Martin, 902 E Triggs av
 Montville, Louis Construction Co., Randolph
 Roach, M. J. & Co. Scimitar bldg bldg
 Roach & Stansell, Scimitar bldg
 Smith, C. D. & Co., Memphis Trust bldg
NASHVILLE—Central Construction Co., First
 National Bank bldg
 Foster & Creighton, 3 Berry blk

TEXAS.

EL PASO—Caples, Powers & O'Connor
 Good, George S. & Co.
 Holmes Supply Co.
FORT WORTH—Hurley, Jno. P.
 Lovejoy, W. A.
 United States Construction Co.
GALVESTON—Ricker, Lee & Co.
HOUSTON—Barnes, Louis J., 1015 Preston
 Chalmers, Peter, 1118 Bingham
 Everest, H. H., 1439 Boulevard
 Farrell, T. P., 901 Pease av
 Johnson & Read, Commercial Bank bldg
 Lamb, Rensselaer, 1915 Milam
SAN ANTONIO—Nelson, John P.
WACO—Flanagan, C. W. & J. J.
 McFarland, S. L.
 Ockander Bros.

UTAH.

ODGEN—Corey Bros. Construction Co.
 Utah Construction Co.
 Wheelwright Construction Co.
SALT LAKE CITY—Baxter, Straw & Storrs
 Construction Co.
 Clement & Strange, Dooley bldg
 Finerty, A. G., 311 S 2d, W
 Gibbons, Patrick, 953 3d
 Halt, John, 430 E 5th, S
 Ross, W. H., 632 S 8th, E

VIRGINIA.

NORFOLK—Atlantic Engineering & Construc-
 tion Corp., National Bank of Com. bldg
 Atlantic, Gulf & Pacific Co.
 Gurganus, Orvis A.
 Sanford & Brooks, Sanford bldg
PETERSBURG—Atlantic Dredging Co.
RICHMOND—Phillips & Allport
 Starritt, Jos. W.
 Wright, Luther
ROANOKE—Vaughan Construction Co.
 Vaughan, L. H. & Co.

WASHINGTON.

SEATTLE—Allen, J. E., 716 Harvard av, N
 Andrews, A. L., 2117 14th av, S
 Carmody, J. E., 324 2d av, W
 Heney, M. J., Colman bldg
 Henry, H. C., Bailey bldg
 McDonald, D. V., 319 Kinnar pl
 Murchison, Samuel, Colman bldg
 Peterson, A. G., 2111 Queen Anne av
 Stanley, Wm. & Co., Burke bldg
 White, W. H., Union blk
SPOKANE—Eastern Washington Construction
 Co.
 Foley Bros., Larson & Co.
 McCreary & Willard
 Porter Bros.
 Twohy Bros.
 Welch, P. & Co.
 Winters, Parsons & Boomer
 Wren & Greenough
TACOMA—Bennett, Nelson Co., National Bank
 of Commerce bldg
 Construction & Maintenance Co.
 Dibble-Hawthorne Co., National Bank of
 Commerce bldg
 Lawson, Nicholas, 103 S 9th
 Martell, Wm., 1939 South L
 Tourpin, S. L., 292 South J

WEST VIRGINIA.

BOXLEY—Carpenter & Boxley
FAIRMONT—McCafferty, J. H.
 Rinehart & Dennis Co.
HUNTINGTON—Harrison, C. O.
KENOVA—O'Kelly, Jno. Construction Co.
WESTON—Fuecy, J. A.
WHEELING—Blodgett, F. H. Co.

WISCONSIN.

GREEN BAY—Marsh, John
 JANESVILLE—Hayes Bros.
 MERRILL—Merrill Construction Co.
 MILWAUKEE—Columbia Construction Co.,
 Colby-Abbott bldg
 Green, S. M., 120 Wisconsin
 McIntosh Bros., Pabst bldg
 Mann, F. J., 947 38th

Contractors (Reinforced Concrete)

(See Concrete Steel Construction, Reinforced)

Contractors (Sewer)

(See Contractors, General.)

Contractors (Street Railway)

(See Contractors, Electric Railway.)

Contractors (Water Works)

(See Contractors, General.)

Contractors & Builders

(See Builders, Contracting; also Contractors, General)

Contractors' Dumping Buckets

(See Buckets, Dredging & Excavating)

Contractors' Hoisting Engines

(See Engines, Hoisting; also Engines, Contractors')

Contractors' Locomotives

(See Locomotive Builders, Industrial & Mine.)

***Contractors' Machinery (New & Second-Hand)**

SHAW, WILLIS, 171 La Salle, Chicago, Ill. (See adv. index, end of book)

Contractors' Plows

(See Plows, Contractors')

Contractors' Portable Light

Kitson Hydro-Carbon Heating & Incandescent Lighting Co., 8th & Willow, Phila., Pa.
 MacLeod, Walter & Co. (Oil & Acetylene), 213 E Pearl, Cincinnati, O.
 Rush Acetylene Generator Co. (Radiant Acetylene), Canandaigua, N. Y.
 Wells Light Mfg. Co., 44 Washington, New York

Contractors' Portable Railway

(See Railways, Industrial, etc.)

Contractors' Pumps for Sewers & Foundations

(See Pumps, Centrifugal; also Pumps, Contractors', for Sewers & Foundations.)

Contractors' Railroad Tents

(See Tents, Railroad Contractors')

Contractors' Supplies (Second-Hand)

Haggerty Refining Co., 50 South, New York
 Harrison, John (Est. of), 169 South, New York
 Mitshkun, M. Co., Isabella av & E, Detroit, Mich.
 SHAW, WILLIS, 171 La Salle, Chicago, Ill. (See adv. index, end of book)

Contractors' Tools & Supplies

See also Barrows of Various Kinds.

Blasting Fuse Caps, etc.
 Buckets, Dumping, etc.
 Cars of Various Kinds.
 Carts of Various Kinds.
 Concrete & Mortar Mixers.
 Crowbars, etc.
 Derricks & Derrick Fittings.
 Dredging Machinery Builders.
 Drills of Various Kinds.
 Dynamite Manufacturers.
 Engines, Hoisting.
 Hoists of Various Kinds.
 Jacks of Various Kinds.
 Locomotives, Industrial & Mine.
 Picks of Various Kinds.
 Pile Driving Machinery.
 Plows, Contractors'.
 Powder Manufacturers.
 Pumps, Centrifugal.
 Railways, Portable.
 Road Machines & Graders.
 Rock & Ore Crushers.
 Rollers of Various Kinds.
 Rope, Manila & Sisal.
 Shovels, Steam.
 Tents, Railroad Contractors'.
 Tools of Various Kinds.
 Wire Rope.
 Wire Rope Cableways.

ACME ROAD MACHINERY CO.,
 Frankfort, N. Y. (See adv. index, end of book)

Adair, Geo. B. & Son, Seattle, Wash.
 AMERICAN HOIST & DERRICK CO.,
 St. Paul, Minn. (See adv. index & branch offices, end of book)

Ames Plow Co., Quincy Hall, Boston, Mass.

ANDERSON, W. H. TOOL & SUPPLY CO., 14 Macomb, Detroit, Mich. (See adv. index, end of book)

Austin Mfg. Co., Hanhattan bldg, Chicago, Ill. Works: Harvey, Ill.

Austin, W. E. Co., Atlanta, Ga.

Baldwin, Frank, 33 South, New York

Baum Iron Co., 1210 Harney, Omaha, Neb., & Denver, Colo.

Beggs, Jas. & Co. (Mfrs.' Agents), 109 Liberty, New York
 Belknap Hardware & Mfg. Co. (Inc.), Louisville, Ky.

Bickerton, T. B., 23 N 6th, Phila., Pa.
 Blackwell, P. A. & Co., Henderson, Ky.

Bond, Harold L. Co. (Tools & Machinery), 140 Pearl, Boston, Mass.

Broderick & Bascom Rope Co., 809 N Main, St. Louis, Mo.

Brodie, Wm. H. & Co., 45 Vesey, New York

Carlin Machinery & Supply Co., Allegheny, Pa.
 CARPENTER, GEO. B. & CO., 202 S. Water, Chicago, Ill. (See adv. index, end of book)

Chandler, Geo. M., 9 N. Illinois, Indianapolis, Ind.

Chaunon, H. Co. (Tools & General Supplies), 32 Market, Chicago, Ill.

Clancy Hardware Co., Syracuse, N. Y.

Columbus Tool & Supply Co., 168 N. 3rd, Columbus, O.

Consolidated Equipment Co., 17 Battery pl, New York

CONTRACTORS SUPPLY & EQUIPMENT CO., Old Colony bldg, Chicago, Ill. (See adv. index & branch offices, end of book)

Cooley, Geo. M. Co. (Inc.), San Bernardino, Cal.

Crerar, Adams & Co., 11 Fifth Ave., Chicago, Ill.

Davies, Frank, Heunen bldg, New Orleans, La.

Dickinson, W. W. Hardware Co., Little Rock, Ark.

Dienst, A. P. & Co., 3d av & 140th, New York

DOBBIE FOUNDRY & MACHINE CO. (Derricks & Fittings, Hoists, etc.), Main Office & Works, Niagara Falls, N. Y. (See adv. index and branch offices, end of book)

Dodge, Haley & Co., 218 High, Boston, Mass.

Edwards & Walker Co., Portland, Me.

Everson & Co., Everson bldg, Syracuse, N. Y.

Eyeless Tool Co. (Hand Tools), Newark, N. J.

Fairbanks Co., 186 Lafayette, New York

Fitchburg Hardware Co., Fitchburg, Mass.

Fitts, Frank E. Mfg. & Supply Co., 88 Purchase, Boston, Mass.

Focht, Geo. Sons, 105 Adams, Hoboken, N. J.

Fones Bros. Hdw. Co., Little Rock, Ark.

Foster, David S., 280 Genesee, Utica, N. Y.

Fox Bros. & Co., 24 Vesey, N. Y.

Frick & Lindsay Co., 109 Wood, Pittsburg, Pa.

Handlan-Buck Mfg. Co., 210 N 3rd, St. Louis, Mo.

Harrington, Robinson & Co., 272 Franklin, Boston, Mass.

Harvey, H. H., 606 Atlantic av, Boston, Mass.

Hawkins, F. B., Co., 66 Fulton, Long Island, N. Y.

Hazleton Machinery & Supply Co., Hazleton, Pa.

Henion & Hubbell, 63 N Jefferson, Chicago, Ill.

Hirsch, I. C. Iron-Steel & Rail Co. (Light Locomotives, Cars, etc.), Cincinnati, O.

James & Co., 101 W 8th, Chattanooga, Tenn.

Johnston, Wm. T. Co. (Full Line), 522 Main

Junlata Supply Co., Arcade Bldg., Phila., Pa.

Kalamazoo Railway Supply Co., Kalamazoo, Mich.

Kendall, J. B., 485 Missouri av, N W, Washington, D. C.

Keystone Equipment Co., West St. Bldg., N. Y. City.

MAINE-McCORMICK CO.

72 Murray Street

NEW YORK CITY

Contractors' Supplies

OF EVERY DESCRIPTION

Mill, Mine and Railroad Supplies, and Marine Specialties

Kichline, Geo. F., 408 Northampton, Easton, Pa.
KINSEY, E. A. CO., 331 W 4th, Cincinnati, O. (See adv. index, end of book)
 Kirk, Arthur & Son, 910 Duquesne way, Pittsburgh, Pa.
 Kirwan, Robbirds Supply Co., Baltimore, Md.
 Konold, M. J. Co., Bessemer bldg, Pittsburgh, Pa.
KOPPEL, ARTHUR, 68 Broad, New York. (See adv. index and branch offices, end of book)
 Lee Bros. (Everything for Contractors), Memphis, Tenn.
 Lee, Glass Andreesen, Hardware Co., 9th & Harney, Omaha, Neb.
 Lehmer, Jos. R., 1212 Farnham, Omaha, Neb.
 Livermore Foundry & Machine Co., Memphis, Tenn.
 Livermore, Norman B. & Co. (All Kinds of Contractors Machinery), Rialto bldg, San Francisco, Cal.
 Logan-Gregg Hdw. Co., 125 7th, Pittsburgh, Pa.
 Loutrell, S. B. & Co., Knoxville, Tenn.
 McClung, C. M. & Co., Knoxville, Tenn.
 McCoy, Henry J. (Full Line), 65 Dey, N. Y.
 McClung, C. M. & Co., Knoxville, Tenn.
 McCoy, Henry J. (Full Line), 65 Dey, New York
 McGraw, Jas., 1440 E Main, Richmond, Va.
 Machinists Supply Co., 16-18 So. Canal, Chicago, Ill.
 Macomber-Whyte-Moon Co., 122 Centre, New York
MAINE-McCORMICK CO., 25 Old Slip, New York. (See adv. index, end of book)
MANNING, MAXWELL & MOORE, 83, 85 & 87 Liberty, New York. (See adv. index & branch offices, end of book)
 Marine Mfg. & Supply Co., 158 South, N. Y.
 Marshall-Wells Hardware Co., Duluth, Minn.
 Meyer Hardware Co., Manton, Mich.
 Meyer, Henry H. Co. (all Kinds), 116 S Howard, Baltimore, Md.
 Mitshkun, M. Co. (Second Hand), Isabella av & E, Detroit, Mich.
MONIGHAN'S MACHINE WORKS (Hoisting Engines), 813-823 Carrol av, Chicago, Ill. (See adv. index, end of book)
 Morison, W. K. & Co., 249 Nicollet av., Minneapolis, Minn.
 Morton, Jas. & Son Co., 1511 Dodge, Omaha, Neb.
 Motley, Thornton N., 12 John, New York
 Motley, Green & Co. (Inc.), 68 Broad, New York
MUNDY, J. S., 22 Prospect, Newark, N. J. (See adv. front colored page)
 Ohio Equipment Co., Columbus, Ohio
 Olney & Warrin, 66 Centre, New York
 Parkhurst & Wilkinson Co., 143 Kinzie, Chicago, Ill.
PATTISON, W. M. SUPPLY CO., 197 St. Clair av, Cleveland, O. (See adv. index, end of book)
 Penna. Supply Co., Wilkes-Barre, Pa.
 Penneman, A. C. & Son, Fort Scott, Kans.
 Perrin, Seaman & Co., 57 Oliver, Boston, Mass.
 Pittsburgh Gage & Supply Co., 309 Water, Pittsburgh, Pa.
 Queen City Supply Co. (All Kinds), 201 W Pearl, Cincinnati, O.
 Roberts, Geo. I. & Bros. (Inc.), 471 4th av, New York
 Roe & Conover, 200 Market, Newark, N. J.
 Rogers, H. A. Co., 19 John, New York
 Root, Neal & Co., 178 Main, Buffalo, N. Y.
 Rumsey, L. M. Mfg. Co., 806 N 2d, St. Louis, Mo.

SHAW, WILLIS, 171 Lasalle, Chicago, Ill. (See adv. index, end of book)
 Sherburne & Co., 53 Oliver, Boston, Mass.
 Smith-Courtney Co., Richmond, Va.
 Smith & Sons Mfg. Co. (Plows, Graders, Ditchers, etc.), Kansas City, Mo.
 Somers, Filter & Todd Co., 327 Water, Pittsburgh, Pa.
 Spear & Tietjen Supply Co., 85 West, New York
STANDARD SCALE & SUPPLY CO., 243 Water, Pittsburgh, Pa. (See adv. index & branch offices, end of book)
 Standard Supply & Equipment Co., 1710 Market, Phila., Pa.
STRONG, CARLISLE & HAMMOND Co., 333 Frankfort av, N. W., Cleveland, O. (See adv. index, end of book)
 Syracuse Hardware & Iron Co., Syracuse, N. Y.
 Syracuse Supply Co., 314 W Fayette, Syracuse, N. Y.
 Todd-Donagan Iron Co., Louisville, Ky.
 Topping Bros. (Pick, Shovels, etc), 122 Chambers, N. Y.
 Underhill, Jarvis F. Co., 49 Hudson, Jersey City, N. J.
 Walbridge & Co., 392 Main, Buffalo, N. Y.
 Waycott Supply Co., 527 N 2d, St. Louis, Mo.
WIENER, ERNST CO., 68 Broad, New York. (See adv. index, end of book)
 Williams Contractors' Supply Co., Columbus, Ohio
 Williamson & Cassedy, 526 Market, Phila., Pa.
 Wingate, C. G., 41 Dey, New York
 Wolf, S. J. Hardware Co., 1414 11th av, Altoona, Pa.
 Wright-Dana Hardware Co., Utica, N. Y.
YAGLE, FOUNDRY & MACHINE CO. (Ltd.) (Blake Rock & Ore Crushers), 400 32d, Pittsburgh, Pa. (See adv. index, end of book)

Contractors' Wagons

(See Wagons, Dumping.)

Controllers (Crane)

(See Crane Controllers)

Controllers (Draft)

(See Regulators, Heat.)

Controllers (Electric Elevator)

Automatic Switch Co. (Full Automatic & Electro Magnetic), 131 Liberty, New York
 Burdette-Rountree Mfg. Co., 87 W Jackson boul, Chicago, Ill.
CUTLER-HAMMER MFG. CO., Milwaukee, Wis. (See adv. on following page; branch offices, end of book)
 Ideal Electric & Mfg. Co. ("Ideal"), Mansfield, Ohio
 Keystone Electric Co., Erie, Pa.
 Keystone Elevator Inspection & Repair Co. ("Sundh"), 1001 Chestnut, Phila., Pa.
MARINE ENGINE & MACHINE CO. ("Jones"), Main Office, 126 Liberty, New York; Works, Harrison, N. J. (See adv. index, end of book)
OTIS ELEVATOR CO., 17 Battery pl, New York. (See adv. index & branch offices, end of book)

PHOENIX ELECTRIC COMPANY, Mansfield, O. (See adv. index, end of book)
 Schureman, J. L. Co., 70 W Jackson boul, Chicago, Ill.
WARNER ELEVATOR MFG. CO., Spring Grove av, Alfred & Valley, Cincinnati, O. (See adv. index & branch offices, end of book)
WESTINGHOUSE ELECTRIC & MFG. Co., Westinghouse bldg, Pittsburgh, Pa. (See (See adv. index & branch offices, end of book)

Controllers (Electric Motor)

Automatic Switch Co. (Motor Driven Elevator, Alternating & Direct), 131 Liberty, New York
ELECTRIC CONTROLLER & SUPPLY Co., Cleveland, O. (See adv. below; branch offices, end of book)
 New York Electric Controller Co., 21 New Chambers, N. Y. City
 Schureman, J. L., Co. (Automatic), 70 W. Jackson Boul'v'd, Chicago, Ill.
WESTINGHOUSE ELECTRIC & MFG. Co. (For Railway & Industrial Motors), Pittsburgh, Pa. (See adv. index & branch offices, end of book)

*Controllers (Electric Pump)

CUTLER-HAMMER MFG. CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

Controllers (Electric Speed)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)
 Carpenter Enclosed Resistance Co. (Reversing), 81 E 130th, New York
CUTLER-HAMMER MFG. CO. (Motor Reversing, Press Motor & Ventilating Fan), Milwaukee, Wis. (See adv. on following page; branch offices, end of book)
ELECTRIC CONTROLLER & SUPPLY Co., Cleveland, O. (See adv. below; branch offices, end of book)
 Elwell-Parker Electric Co., 1066 Hamilton, Cleveland, O.
GENERAL ELECTRIC CO., Schenectady, N. Y., & 44 Broad, New York. (See adv. index, end of book)
 Gordon Battery Co., 439 E 144th, New York
 Graves, W. D. Electrical & Machine Co., 19 Michigan, Cleveland, O.
 Ideal Electric & Mfg. Co. ("Ideal"), Mansfield, Ohio
MORGAN ENGINEERING CO. (Reversible), Alliance, O. (See adv. index, end of book)
 Ohio Electrical Specialty Mfg. Co. (Fan Motor), Troy, O.
PHOENIX ELECTRIC COMPANY, Mansfield, O. (See adv. index, end of book)
 Power & Speed Regulator Mfg. Co. (Ltd.) (White), Kalamazoo, Mich.
 Schureman & Hayden, 138 S Clinton, Chicago, Ill.
 Ward, Leonard Electric Co., Bronxville, N. Y.
 Wirt Electric Co., Gtn. & Sedgely avs., Phila., Pa.

Controllers (Feed Water)

(See Regulators, Feed Water.)

DINKEY VENTILATED CONTROLLERS

1 TO 100 H.P.

The substantial mechanical construction of this controller enables it to withstand severe service under the most exacting conditions. All parts are interchangeable.

SEND FOR BULLETIN No. 99.

**THE ELECTRIC CONTROLLER & SUPPLY CO.
CLEVELAND, OHIO**

*Controllers (Fire and Flame, Automatic)

Combustion Utilities Co., 60 Wall, New York

Controllers (Gas Pressure)

(See Regulators, Gas Pressure)

Controllers (Hoisting Engine)

Franklin Iron Works ("Allison"), Port Carbon, Pa.

*Controllers (Machine Tool)

CUTLER-HAMMER MFG. CO., Milwaukee, Wis. (See adv. below; branch offices, end of book)

ELECTRIC CONTROLLER & SUPPLY Co., Cleveland, O. (See adv. on preceding page; branch offices, end of book)

Controllers (Mechanical Speed)

Power & Speed Controller Co. (For High Grade Speed), Watertown, Mass.

*Controllers (Mill Table)

ELECTRIC CONTROLLER & SUPPLY Co., Cleveland, O. (See adv. index & branch offices, end of book)

*Controllers (Pump)

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)

Automatic Switch Co., 131 Liberty, New York
CUTLER-HAMMER MFG. CO., Milwaukee, Wis. (See adv. below; branch offices, end of book)

OTIS ELEVATOR CO., 17 Battery pl., New York. (See adv. index & branch offices, end of book)

*Controllers (Railway Motor)

GENERAL ELECTRIC CO., Schenectady, N. Y., & 44 Broad, New York. (See adv. index and branch offices, end of book)

Controllers (Reversible Crane)

(See Crane Controllers)

*Controllers (Rheostatic)

Automatic Switch Co., 131 Liberty, New York
CUTLER-HAMMER MFG. CO., Milwaukee, Wis. (See adv. below; branch offices, end of book)

ELECTRIC CONTROLLER & SUPPLY Co., Cleveland, O. (See adv. on preceding page; branch offices, end of book)

Converter Bottoms (Brick)

Haws, A. J. & Sons (Ltd.), Johnstown, Pa.

Converters (Bessemer)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

Pennsylvania Engineering Works, New Castle, Pa.

PETROLEUM IRON WORKS CO., Washington, Pa. (See adv. index and branch offices, end of book)

Pollock, Wm. B., Co., Youngstown, O.

Power & Mining Machinery Co., 52 William, New York. Works, Cudahy, Wis.

REEVES BROS. CO., Alliance, O. (See adv. index, end of book)

Riter-Conley Mfg. Co., Pittsburg, Pa., & 111 B'way, New York

Tod, Wm. Co., Youngstown, O.

Converters (Copper)

ALLIS-CHALMERS CO. (Complete Plants), Milwaukee, Wis. (See adv. index & branch offices, end of book)

Power & Mining Machinery Co., 52 William, New York. Works, Cudahy, Wis.

WELLMAN-SEAEVER-MORGAN CO., Cleveland, & Akron, O. (See adv. index, end of book)

Converters (Electric)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

Elwell-Parker Electric Co., 1066 Hamilton, Cleveland, O.

GENERAL ELECTRIC CO. (Rotary), Schenectady, N. Y., & 44 Broad, New York. (See adv. index & branch offices, end of book)

WESTINGHOUSE ELECTRIC & MFG. Co. (Rotary), Pittsburg, Pa. (See adv. index & branch offices, end of book)

*Converters (Rotary)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

Conveyor Troughs

DODGE MFG. CO., Mishawaka, Ind. (See adv. index & branch offices, end of book)

Hendrick Mfg. Co., Carbondale, Pa.

Heyl & Patterson, 51 Water, Pittsburg, Pa.

Interstate Engineering Co., Bedford, O.

Link Belt Co., W 39th c Stewart av, Chicago, Ill., & 299 B'way, New York

Conveyors (Apron)

ALVEY-FERGUSON CO., Louisville, Ky. (See adv. index & branch offices, end of book)

DODGE MFG. CO., Mishawaka, Ind. (See adv. index & branch offices, end of book)

JEFFREY MFG. CO., Columbus, O. (See adv. on following page)

Link Belt Co. (Steel), W 39th c Stewart av, Chicago, Ill., & 299 B'way, New York

Mey Chain Belting Engineering Works, 34 Washington, Buffalo, N. Y.

Steel Cable Engineering Co. (& Sorting Tables), 92 State, Boston, Mass.

*Conveyors (Automatic Power)

ALVEY-FERGUSON CO., Louisville, Ky. (See adv. index & branch offices, end of book)

Conveyors (Belt)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

ALVEY-FERGUSON CO., Louisville, Ky. (See adv. index & branch offices, end of book)

BARTLETT, C. O. SNOW & CO., Cleveland, O. (See adv. opp. page)

Bethlehem Foundry & Machine Co., So. Bethlehem, Pa.

BONNOT COMPANY, Canton, O. (See adv. index, end of book)

Buhl Malleable Co., Wight & Adair, Detroit, Mich.

Caldwell, H. W. & Son Co., 17th & Western av, Chicago, Ill.

Chain Belt Co., 766 Park, Milwaukee, Wis.

DODGE MFG. CO., Mishawaka, Ind. (See adv. index & branch offices, end of book)

Gregg Co. (Ltd.) (For Sugar Cane, etc.), Newburgh, N. Y.

Grotenroth, Fred., 111 W. Water, Milwaukee, Wis.

Interstate Engineering Co., Bedford, O.

JEFFREY MFG. CO. (Rubber), Columbus, O. (See adv. on following page)

Klein, Chas. C. ("Universal"), 2850 N Marshall, Phila., Pa.

Howe Scale Co. of Illinois, 1315 Wabash av, Chicago, Ill.

Link Belt Co., W 39th c Stewart av, Chicago, Ill., & 299 B'way, New York

MEAD-MORRISON MFG. CO., Cambridge (Boston), Mass., & 11 B'way, New York. (See adv. index & branch offices, end of book)

Mine & Smelter Supply Co., Denver, Colo.

Moore & Lorenz Co., 816 Fulton, Chicago, Ill.

Nordyke & Marmon Co., Indianapolis, Ind.

Parker Hoist & Machine Co., 971 N. Francisco av., Chicago, Ill.

Power & Mining Machinery Co., 52 William, New York. Works, Cudahy, Wis.

Ridgway Belt Conveyor Co., 29 B'way, New York

ROBINS CONVEYING BELT CO., 19 Park Row, New York. (See adv. index, end of book)

RUSSEL WHEEL & FOUNDRY CO., Detroit, Mich. (See adv. index, end of book)

Steel Cable Engineering Co. (Troughed & Flat), 92 State, Boston, Mass.

Stephens-Adamson Mfg. Co., Aurora, Ill.

Webster Mfg. Co., 1075 W 15th, Chicago, Ill.

WELLER MFG. CO. ("Helicoid"), 124 E North av, Chicago, Ill. (See adv. index, end of book)

Conveyors (Brick)

ALVEY-FERGUSON CO., Louisville, Ky. (See adv. index & branch offices, end of book)

BALANCED CABLE CRANE CO., The, 135 William, New York. (See adv. opp. last page of Index of Contents)

BARTLETT, C. O. & SNOW CO., Cleveland, O. (See adv. below)

Buhl Malleable Co., Wight & Adair, Detroit, Mich.

Cleveland Elevator Bucket Co., 104 St. Clair, N. W., Cleveland, O.

DODGE MFG. CO., Mishawaka, Ind. (See adv. index & branch offices, end of book)

Horton Mfg. Co., Painesville, O.

MACHINE TOOL CONTROLLERS

That will give absolute control of the Machine Tool Motor over a wide speed range, with least effort on the part of the operator are necessary to a satisfactory electric drive equipment. We build thousands of such controllers for all classes of

MACHINE WORK, FOR ALL VOLTAGE CONDITIONS

We make RHEOSTATS, REGULATORS and STARTERS

FOR ANY SERVICE A. C. OR D. C.

THE CUTLER-HAMMER MFG. CO.
MILWAUKEE, WIS.



Reversible Drum Controller



Compound Non-reversible Type

Link Belt Co., W 39th & Stewart av, Chicago, Ill., & 299 B'way, New York
 Mathews Gravity Carrier Co. (Gravity), St. Paul, Minn.
 Mey Chain Belting Engineering Works, 34 Washington, Buffalo, N. Y.
ROBINS CONVEYING BELT CO., 19
 Park row, New York. (See adv. index, end of book)
 Webster Mfg. Co., 1075 W 15th, Chicago, Ill.
 Wellington Machine Co., Wellington, Ohio

Conveyors (Cable)

(See Conveyors, Wire Cable; also Tramways, Wire Rope.)

Conveyors (Chain)

ALVEY-FERGUSON CO., Louisville,
 Ky. (See adv. on following page; branch offices, end of book)
BARTLETT, C. O. & SNOW CO.,
 Cleveland, O. (See adv. below)
 Buhl Malleable Co., Wight & Adair, Detroit, Mich.
 Caldwell, H. W. & Son Co., 17th & Western av, Chicago, Ill.
DODGE MFG. CO. (Countershafts),
 Mishawaka, Ind. (See adv. index & branch offices, end of book)
 Garland, M. Co. (Steel Chain), Bay City, Mich.
 Howe Scale Co. of Illinois, 1315 Wabash av, Chicago, Ill.
 Interstate Engineering Co., Bedford, O.
JEFFREY MFG. CO., Columbus, O.
 (See adv. on this page, branch offices, end of book)
 Koehler Bros., Saginaw, Mich.
 Mey Chain Belting Engineering Works, 34 Washington, Buffalo, N. Y.
 Moore & Lorenz Co., 816-822 Fulton, Chicago, Ill.
 Parker Hoist & Machine Co., 971 N. Francisco av., Chicago, Ill.
RUSSEL WHEEL & FOUNDRY CO.,
 Detroit, Mich. (See adv. index end of book)
WELLER MFG. CO., 124 E. North av,
 Chicago. (See adv. next page)

Conveyors (Clay)

ALLIS-CHALMERS CO., Milwaukee,
 Wis. (See adv. index & branch offices, end of book)
ALVEY-FERGUSON CO., Louisville,
 Ky. (See adv. on following page; branch offices, end of book)
 American Clay Machinery Co., Bucyrus, & Willsoughby, O.
BALANCED CABLE CRANE CO.,
 The, 135 William, New York. (See adv. opp. last page of Index of Contents)
BARTLETT, C. O. & SNOW CO.,
 Cleveland, O. (See adv. below)
BONNOT CO. (& Clay Elevators),
 Canton, O. (See adv. index, end of book)
 Buhl Malleable Co., Wight & Adair, Detroit, Mich.
 Chambers Bros. Co., 52d, bel Lancaster av, Phila., Pa.
 Cleveland Elevator Bucket Co., 104 St. Clair, N. W., Cleveland, O.

WE CONVEY AND ELEVATE EVERYTHING.

TACKS, SAND, ROCK, ORES, RED HOT IRON, MOLTON SLAG, COAL AND SALT.

CONVEYORS AND ELEVATORS MADE BY

THE C. O. BARTLETT & SNOW CO. CLEVELAND, O.

DODGE MFG. CO., Mishawaka, Ind.
 (See adv. index & branch offices, end of book)
 Haiss, Geo. Mfg. Co., 141st & Rider av, New York
 Helmick Foundry & Machine Co., Fairmont, W. Va.
 Huettelman & Cramer Co., Detroit, Mich.
JEFFREY MFG. CO., Columbus, O.
 (See adv. on this page, branch offices, end of book)

Leader Mfg. Co., Decatur, Ill.
 Link Belt Co., W 39th & Stewart av, Chicago, Ill., & 299 B'way, New York
 Mey Chain Belting Engineering Works, 34 Washington, Buffalo, N. Y.
ROBINS CONVEYING BELT CO., 19
 Park Row, New York. (See adv. index, end of book)

Conveyors (Clinker)

DODGE MFG. CO., Mishawaka, Ind.
 (See adv. index & branch offices, end of book)
JEFFREY MFG. CO., Columbus, O.
 (See adv. on this page, branch offices, end of book)
 Link Belt Co., W 39th & Stewart av, Chicago, Ill., & 299 B'way, New York
ROBINS CONVEYING BELT CO., 19
 Park Row, New York. (See adv. index, end of book)

Conveyors (Coal & Ash Handling)

(See also Coal & Ore Handling Machinery.)
ALLIS-CHALMERS CO., Milwaukee,
 Wis. (See adv. index & branch offices, end of book)
BALANCED CABLE CRANE CO.,
 The, 135 William, New York. (See adv. opp. last page of Index of Contents)
BARTLETT, C. O. & SNOW CO.,
 Cleveland, O. (See adv. preceding column)
BROWN HOISTING MACHINERY CO.,
 1345 St. Clair, Cleveland, O., & 26 Cortlandt, N. Y. (See adv. index, end of book)
 Buhl Malleable Co., Wight & Adair, Detroit, Mich.
 Chain Belt Co., 766 Park, Milwaukee, Wis.
 Cleveland Elevator Bucket Co. (Light Grade), 104 St. Clair, N. W., Cleveland, O.
DODGE MFG. CO., Mishawaka, Ind.
 (See adv. index & branch offices, end of book)
 Exeter Machine Works, Pittston, Pa.
 Garland, M. C., Bay City, Mich.
 Haiss, Geo. Mfg. Co., 141st & Rider av, New York

Heil Co., Milwaukee, Wis.
 Helmick Foundry & Machine Co., Fairmont, W. Va.
 Howe Scale Co. of Illinois, 1315 Wabash av, Chicago, Ill.
 Hunt, C. W. Co., 45 B'way, New York. Works: West New Brighton, S. I., N. Y.
 Interstate Engineering Co., Bedford, O.
JEFFREY MFG. CO., Columbus, O.
 (See adv. on this page, branch offices, end of book)
 Link Belt Co., W 39th & Stewart av, Chicago, Ill., & 299 B'way, New York
 McLanahan Stone Machine Co., Hollidaysburg, Pa.
 McMyler Mfg. Co., 182 Columbus, Cleveland, O.
 Mead, Jno. A. & Co. ("McCaslin" Conveying, Crushing & Weighing), 11 B'way, New York, N. Y., & Rutland, Vt.
MEAD-MORRISON MFG. CO., Cambridge (Boston), Mass., & 11 B'way, New York. (See adv. index & branch offices, end of book)

Mey Chain Belting Engineering Works, 34 Washington, Buffalo, N. Y.
 Nelsonville Foundry & Machine Co., Nelsonville, O.
 Power & Mining Machinery Co., 52 William, New York. Works, Cudahy, Wis.
 Prox, Frank Co., Terre Haute, Ind.
ROBINS CONVEYING BELT CO., 19
 Park Row, New York. (See adv. index, end of book)
RUSSEL WHEEL & FOUNDRY CO.,
 Detroit, Mich. (See adv. index, end of book)

Simpson Mfg. Co., 95 Dearborn, Chicago, Ill.
 Steel Cable Engineering Co., 92 State, Boston, Mass.
 Tamaqua Mfg. Co. (For Coal Mining, etc.), Tamaqua, Pa.
 Union Iron Works, Hoboken, N. J.
 Vulcan Iron Works, Wilkes-Barre, Pa.
 Warner-Palmros Mfg. Co., Fairmont, W. Va.

*Conveyors (Corn and Corn Cob)

DODGE MFG. CO., Mishawaka, Ind.
 (See adv. index & branch offices, end of book)
SPRAGUE CANNING MACHINERY
 Co., 42 River, Chicago, Ill. (See adv. index, end of book)

Conveyors (Fertilizer)

Interstate Engineering Co., Bedford, O.
DODGE MFG. CO., Mishawaka, Ind.
 (See adv. index & branch offices, end of book)
 Link Belt Co., W 39th & Stewart av, Chicago, Ill., & 299 B'way, New York
 Mey Chain Belting Engineering Works, 34 Washington, Buffalo, N. Y.

ARE YOU USING JEFFREY MACHINERY for ELEVATING - CONVEYING PROBLEMS



Swivel Bucket Conveyor for Coal and Ashes Transferring.

Estimates on POWER HOUSE EQUIPMENT Submitted Free with Catalogs.



Pulverizers for Coal, Coke, Shale and many more materials
 Catalog 31

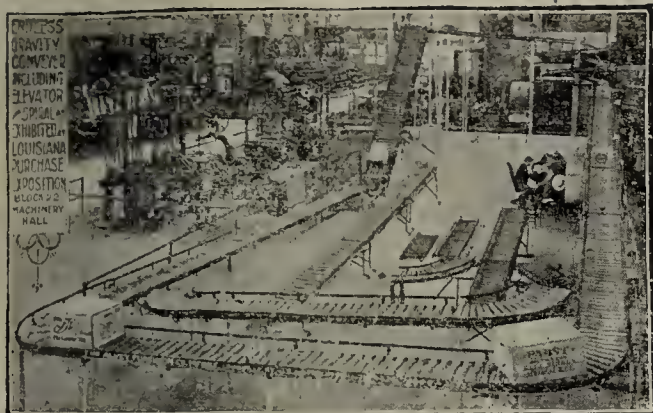


Electric Locomotives for Mine and Industrial Haulage

Bulletins 10 and 11
 Chain Catalog, 80 Screen Catalog, 69
 Drill Catalog, 76

THE JEFFREY MFG. CO., Columbus, O.

NEW YORK CHICAGO PITTSBURG DENVER BOSTON MONTREAL



THE ALVEY-FERGUSON CO., INC.

LOUISVILLE, KY., U. S. A.

MANUFACTURERS OF

THE A - F GRAVITY CONVEYERS AND LABOR SAVING DEVICES.

SEND FOR ILLUSTRATED CATALOGUE.

Conveyors (Flour)

Buhl Malleable Co., Wight & Adair, Detroit, Mich.
Campbell, Peter F., 51 Laurel, Phila., Pa.
Chain Belt Co., 736 Park, Milwaukee, Wis.
DODGE MFG. CO., Mishawaka, Ind.
(See adv. index & branch offices, end of book)
Link Belt Co., W-39th c Stewart av, Chicago, Ill., & 299 B'way, New York
Mey Chain Belting Engineering Works, 34 Washington, Buffalo, N. Y.

Conveyors (Freight)

ALVEY-FERGUSON CO., Louisville, Ky. (See adv. above; branch offices, end of book)
BALANCED CABLE CRANE CO., THE,
135 William, New York. (See adv. opp. last page of Index of Contents)
BARTLETT, C. O. & SNOW CO.,
Cleveland, O. (See adv. preceding page)
Buhl Malleable Co., Wight & Adair, Detroit, Campbell, P. F., 51 Laurel, Phila., Pa. Mich.
Chain Belt Co., Milwaukee, Wis.
Clark Conveyor Co., 71 B'way, New York
Howe Scale Co. of Illinois, 1315 Wabash av, Chicago, Ill.
Interstate Engineering Co., Bedford, O.
Link Belt Co., W-39th c Stewart av, Chicago, Ill., & 299 B'way, New York
ROBINS CONVEYING BELT CO., 19
Park Row, New York. (See adv. index, end of book)
RUSSEL WHEEL & FOUNDRY CO.,
Detroit, Mich. (See adv. on following page)
Steel Cable Engineering Co. (Barrel, Box, etc.), 92 State, Boston, Mass.
Vulcan Iron Works, Wilkes-Barre, Pa.

Conveyors (Grain Elevator)

BARTLETT, C. O. & SNOW CO.,
Cleveland, O. (See adv. preceding page)
Chain Belt Co., Milwaukee, Wis.
Cleveland Elevator Bucket Co., 104 St. Clair, N. W., Cleveland, O.

DODGE MFG. CO., Mishawaka, Ind.
(See adv. index & branch offices, end of book)

Grotenroth, Fred., 111 W. Water, Milwaukee, Wis.
Link Belt Co., W-39th c Stewart av, Chicago, Ill., & 299 B'way, New York
Mey Chain Belting Engineering Works, 34 Washington, Buffalo, N. Y.
Moore & Lorenz Co., 816-822 Fulton, Chicago, Ill.

Richmond City Mill Works, Richmond, Ind.
Skillin & Richards Mfg. Co., 147 Fulton, Chicago, Ill.
Sprout, Waldron & Co., Muncy, Pa.
Webster Mfg. Co., 1075 W 15th, Chicago, Ill., & 38 Dey, New York

WELLER MFG. CO., 124 E. North av,
Chicago, Ill. (See adv. below)

Conveyors (Gravel & Sand)

BALANCED CABLE CRANE CO., THE,
135 William, New York. (See adv. opp. last page of Index of Contents)
Cleveland Elevator Bucket Co., 104 St. Clair, N. W., Cleveland, O.

DODGE MFG. CO., Mishawaka, Ind.
(See adv. index & branch offices, end of book)
Helmick Foundry & Machine Co., Fairmont, W. Va.

Mey Chain Belting Engineering Works, 34 Washington, Buffalo, N. Y.
ROBINS CONVEYING BELT CO., 19
Park Row, New York. (See adv. index, end of book)

RUSSEL WHEEL & FOUNDRY CO.,
Detroit, Mich. (See adv. on following page)

Conveyors (Gravity)

ALVEY-FERGUSON CO. (for Boxes,
Barrels, Crates, etc.), Louisville, Ky. (See adv. above; branch offices, end of book)
Hoshor-Platt Co. ("Hoshor's"), 120 Liberty, New York
Mathews Gravity Carrier Co. (Automatic, for Freight packages, etc.), St. Paul, Minn.

Mead, Jno. A., & Co. ("McCaslin" Noiseless Overlapping Gravity Bucket), 11 B'way, N. Y., Rutland, Vt.

MEAD-MORRISON MFG. CO., ("Mc-Caslin" Bucket), Cambridge (Boston), Mass., & 11 B'way, New York. (See adv. index & branch offices, end of book)

OTIS ELEVATOR CO., 17 Battery pl.,
New York. (See adv. index & branch offices, end of book)

*Conveyors (Gravity, Spiral)

ALVEY-FERGUSON CO., Louisville, Ky. (See adv. above; branch offices, end of book)

Conveyors (Hot Metal)

BARTLETT, C. O. & SNOW CO.,
Cleveland, O. (See adv. preceding page)
Link Belt Co., W-39th c Stewart av, Chicago, Ill., & 299 B'way, New York
NORTHERN ENGINEERING WORKS,
9 Chene, Detroit, Mich. (See adv. index, end of book)

WHITING FOUNDRY EQUIPMENT
Co., Harvey, Ill. (See adv. index & branch offices, end of book)

Conveyors (Ice)

(See Ice Handling Machinery)

Conveyors (Link Belt)

Buhl Malleable Co., Wight & Adair, Detroit, Chain Belt Co., Milwaukee, Wis. Mich.
DODGE MFG. CO., Mishawaka, Ind.
(See adv. index & branch offices, end of book)
Grotenroth, Fred., 111 W. Water, Milwaukee, Interstate Engineering Co., Bedford, O. Wis.
Link Belt Co., W-39th c Stewart av, Chicago, Ill., & 299 B'way, New York
Mey Chain Belting Engineering Works, 34 Washington, Buffalo, N. Y.
RUSSEL WHEEL & FOUNDRY CO.,
Detroit, Mich. (See adv. on following page)

WELLER STANDARD CONVEYOR.

BEST ON THE MARKET.

POPULAR.

MOST EASILY REPAIRED.

COMPLETE
EQUIPMENTS

for
GRAIN
ELEVATORS.



SPECIAL
MACHINERY.

Catalogue No. 18-S
Upon request.

MANUFACTURERS OF ALL KINDS OF

Elevating, Conveying & Power Transmitting Machinery.

WELLER MFG. CO., Chicago, Ill.

Conveyors (Log)

ALLIS-CHALMERS CO., Milwaukee,
Wis. (See adv. index & branch offices, end of book)

BALANCED CABLE CRANE CO., THE,
135 William, New York. (See adv. opp. last page of Index of Contents)

Buhl Malleable Co., Wight & Adair, Detroit, Mich.

Diamond Iron Works, Minneapolis, Minn.

Filer & Stowell Co., Milwaukee, Wis.

FLORY, S. MFG. CO., Bangor, Pa.
(See adv. index, end of book)

Garland, M. Co. (Steel Chain, etc.), Bay City, Mich.

Henderson, W. K. Iron Works & Supply Co., Shreveport, La.

Interstate Engineering Co., Bedford, O.

Koehler Bros., Saginaw, Mich.

LANE MFG. CO., Montpelier, Vt. (See adv. index, end of book)

Link Belt Co., W 39th c Stewart av, Chicago, Ill., & 299 B'way, New York

Mathews Gravity Carrier Co., St. Paul, Minn.

Mey Chain Belting Engineering Works, 34 Washington, Buffalo, N. Y.

Soule Steam Feed Works, Meridian, Miss.

Conveyors (Pan)

ALLIS-CHALMERS CO., Milwaukee,
Wis. (See adv. index & branch offices, end of book)

ALVEY-FERGUSON CO., Louisville,
Ky. (See adv. index & branch offices, end of book)

Howe Scale Co. of Illinois, 1315 Wabash av, Chicago, Ill.

JEFFREY MFG. CO., Columbus, O.
(See adv. index & branch offices, end of book)

Link Belt Co., W 39th c Stewart av, Chicago, Ill., & 299 B'way, New York

Mey Chain Belting Engineering Works, 34 Washington, Buffalo, N. Y.

Steel Cable Engineering Co. (Plain for Coke, Cement, Clinker, etc.), 92 State, Boston, Mass.

Conveyors (Rock & Ore)

ALLIS-CHALMERS CO., Milwaukee,
Wis. (See adv. index & branch offices, end of book)

BALANCED CABLE CRANE CO., THE,
135 William, New York. (See adv. opp. last page of Index of Contents)

BARTLETT, C. O. & SNOW CO.,
Cleveland, O. (See adv. index, end of book)

Buhl Malleable Co., Wight & Adair, Detroit, Mich.

Cleveland Elevator Bucket Co. (Crushed Rock), 104 St. Clair, N. W., Cleveland, O.

DODGE MFG. CO., Mishawaka, Ind.
(See adv. index & branch offices, end of book)

Garland, M. Co. (Steel Cable, etc.), Bay City, Mich.

Hammond Mfg. Co., 100 1st, Portland, Oreg.

Interstate Engineering Co., Bedford, O.

Link Belt Co., W 39th c Stewart av, Chicago, Ill., & 299 B'way, New York

Mey Chain Belting Engineering Works, 34 Washington, Buffalo, N. Y.

ROBINS CONVEYING BELT CO., 19
Park row, New York. (See adv. index, end of book)

Steel Cable Engineering Co., 92 State, Boston, Mass.

Urie Boiler & Machine Co., 607 W 5th, Kansas City, Mo.

Vulcan Iron Works, Wilkes Barre, Pa.

Conveyors (Rolling Mill)

American Furnace & Machine Co. (Tin Plate & Sheet), Publication bldg, Pittsburg, Pa.

Heyl & Patterson (Bar, Billet & Slab, etc.), 51 Water, Pittsburg, Pa.

Link Belt Co., W 39th c Stewart av, Chicago, Ill., & 299 B'way, New York

Conveyors (Saw Dust)

Chain Belt Co., Milwaukee, Wis.

Curtis & Co. Mfg. Co., St. Louis, Mo.

DODGE MFG. CO., Mishawaka, Ind.
(See adv. index & branch offices, end of book)

Filer & Stowell Co., Home Office, Milwaukee, Wis.

Garland, M. Co., Bay City, Mich.

Interstate Engineering Co., Bedford, O.

Koehler Bros., Saginaw, Mich.

Link Belt Co., W 39th & Stewart av, Chicago, Ill., & 299 B'way, New York

Mey Chain Belting Engineering Works, 34 Washington, Buffalo, N. Y.

Southern Engine & Boiler Work (Inc.), Jackson, Wicks Bros., Saginaw, Mich. Tenn.

***Conveyors (Scraper)**

ROBINS CONVEYING BELT CO., 19
Park row, New York. (See adv. index, end of book)

Conveyors (Spiral)

BARTLETT, C. O. & SNOW CO.,
1040 French, N W, Cleveland, O. (See adv. dex, end of book)

Buhl Malleable Co., Wight & Adair, Detroit, Mich.

Caldwell, H. W. & Son Co., Western av & 17th, Chicago, Ill.

Chain Belt Co. (Steel), Milwaukee, Wis.

DODGE MFG. CO., Mishawaka, Ind.
(See adv. index & branch offices, end of book)

Grotenroth, Fred., 111 W Water, Milwaukee, Wis.

Great Western Mfg. Co., Leavenworth, Kans.

Interstate Engineering Co., Bedford, O.

JEFFREY MFG. CO., Columbus, O.
(See adv. index & branch offices, end of book)

Link Belt Co., W 39th & Stewart av, Chicago, Ill., & 299 B'way, New York

Mey Chain Belting Engineering Works, 34 Washington, Buffalo, N. Y.

Moore & Lorenz Co., 816-822 Fulton, Chicago, Ill.

Power & Mining Machinery Co., 52 William, New York. Works, Cudahy, Wis.

Skillin & Richards Mfg. Co., 147 Fulton, Chicago, Ill.

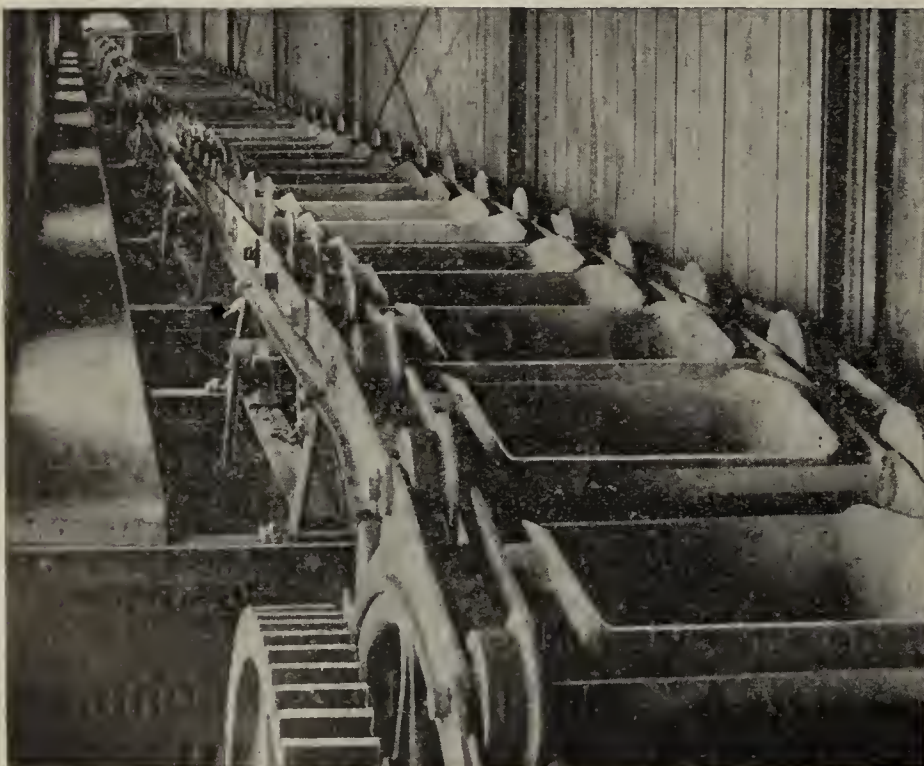
Tate, Jones & Co., Empire bldg, Pittsburg, Pa.

Webster Mfg. Co., 1075 W 15th, Chicago, Ill., & 38 Dey, New York

WELLER MFG. CO. ("Helicoid"), 124
E North av, Chicago, Ill. (See adv. on preceding page)

RUSSEL WHEEL & FOUNDRY CO.

DESIGNERS AND BUILDERS OF



ELEVATING

—AND—

CONVEYING

MACHINERY

FOR HANDLING ALL KINDS

OF HEAVY MATERIAL

SOLICIT YOUR INQUIRIES

DETROIT, MICH.

***Conveyors (Trench Excavating)**

(See also Sewer Excavating Machinery)

BALANCED CABLE CRANE CO., THE,
135 William, New York. (See adv. opp. last
page of Index of Contents)**Conveyors (Wire Cable)**

(See also Wire Rope Tramways.)

BALANCED CABLE CRANE CO., THE,
135 William, New York. (See adv. opp. last
page of Index of Contents)Caldwell, H. W. & Son Co., 17th & Western av,
Chicago, Ill.**JEFFREY MFG. CO., Columbus, O.**
(See adv. index & branch offices, end of book)Link Belt Co., W 39th & Stewart av, Chicago,
Ill., & 299 B'way, New York**RUSSEL WHEEL & FOUNDRY CO.,**
Detroit, Mich. (See adv. on preceding page)Skillin & Richards Mfg. Co., 241 S Jefferson,
Chicago, Ill.Steel Cable Engineering Co., 92 State, Boston,
Mass.

Tate, Jones & Co., Empire bldg., Pittsburg, Pa.

Webster Mfg. Co., 1075 W. 15th, Chicago, &
38 Dey, N. Y.**WELLER MFG. CO., 124 E. North av,**
Chicago, Ill. (See adv. preceding page)**Cookers (Apple)**Harris, Arthur & Co. (Steam), 44 W Curtis st,
Chicago, Ill**Cookers (Feed)**Donaldson Bros, Mt. Clemens, Mich.
Greenville Implement Co., Greenville, Mich.
Helsen Bros. & Co., Tecumseh, Mich.
Kelly Foundry & Machine Co., Goshen, Ind.
Moore Plow & Implement Co., Greenville, Mich.
Silver Mfg. Co. (Steam), Salem, O
Sperry, D. R. & Co., Batavia, Ill.**Cooking Apparatus**Bangs, Jno. D. & Co., 274 Wabash av, Chicago,
Born Steel Range Co., Cleveland, O. Ill.

Bramhall, Deane Co., 264 Water, New York

Bramhall Range Co., 81 Market, Chicago, Ill.

Carmichael Range Co., 195 Kinzie, Chicago, Ill.

Carpenter, Cyrus & Co., 44 Hanover, Boston,
Mass.Clad, V. & Sons, 239 S 12th, Phila., Pa.
(See adv. index, end of book)

Clark-Miller Co., Seattle, Wash.

Combination Urn Mfg. Co., 253 La Salle, Chi-
cago, Ill.

Crane, W. M. Co., 1133 B'way, N. Y.

Dougherty, W. F., 158 N 9th, Phila., Pa.

DUPARQUET, HUOT & MONEUSE CO.,
43 Wooster, New York. (See adv. below;
branch offices, end of book)Fischer, Wm. G. Stove & Range Co., 325 Race,
Cincinnati, O.

Gregory, H. I., 908 Pa. av, Washington, D. C.

Hutchinson Bros., 116 N Howard, Balto., Md.

Hls, J. G. & Co., 814 Kearney, San Fran., Cal.

Ingram, W. H., 106 N 3d, Phila., Pa.

Lotze's, A Sons & Co., 8th & Broadway, Cin-
cinnati, O.

Majestic Mfg. Co., 2016 Morgan, St. Louis, Mo.

Mangrum & Otter, 538 Mission, San Francisco,
Cal.Miller, Wm. Range & Furnace Co., 125 E 5th,
Cincinnati, O.

Montague, W. W. & Co. (Inc.), San Francisco, Cal.

Morandi-Proctor Co., 48 Union, Boston, Mass.

Osborn, J. M. & L. A. Co., 26 Viaduct, Cleveland, O.

Richardson & Boynton Co., 232 Water, New
York, & 84 Lake, Chicago, Ill.

Schill Bros. Co., Crestline, O.

Sheppard, Isaac A. & Co., 1801 N 4th, Phila.,
Pa.

Van, John Range Co., 419 Elm, Cincinnati, O.

Walker & Pratt Mfg. Co., 33 Union, Boston,
Mass.**Cooking Apparatus (Electric)**American Electrical Heater Co. (Heaters, Broil-
ers, etc.), Detroit, Mich.Hadaway Electric Heating & Engineering Co.,
228 W B'way, New York
Simplex Electrical Co., 110 State, Boston,
Mass.**Cooking Griddles (Soapstone)**Plumbers' Soapstone Co. of America, Oak Ridge,
Va.**Cooking Utensils (Pressed Steel)**

Cheswick Mfg. Co., Canton, O.

Coolers (Beer)Brunswick, Balke, Collender Co., 229 4th av,
New York

Hall, Amos H. Son & Co., Phila., Pa.

Hendrix Mfg. Co., Montgomery, Ala.

Roos' August Son Copper Works, 232 W 27th
Stevens, B. A., Toledo, O. New York

Strater, H. & Sons, Boston, Mass.

Coolers (Clinker)*REEVES BROS. CO., Alliance, O.**
(See adv. index, end of book)**Coolers (Water)**Buffalo Mfg. Co. ("Jewett," Brass, etc.), 1444
Niagara, Buffalo, N. Y.

Cooper & McKee, 119 Lorimer, Brooklyn, N. Y.

Cordley & Hayes ("Fibrotta" Fibre Ware),
172 Duane, New YorkDover Stamping & Mfg. Co. (Galvanized Tank
& "Dover" Wood Jacket), Cambridge, Mass.

Fulper Pottery Co., Flemington, N. J.

Lalance & Grosjean Mfg. Co., 19 Cliff, New
York

Mace, L. H. & Co., 117 E. Houston, New York

Manning, Bowman & Co., Meriden, Conn.

MISSISSIPPI GLASS CO., 277 B'way,
New York. (See adv. index & branch offices,
end of book)

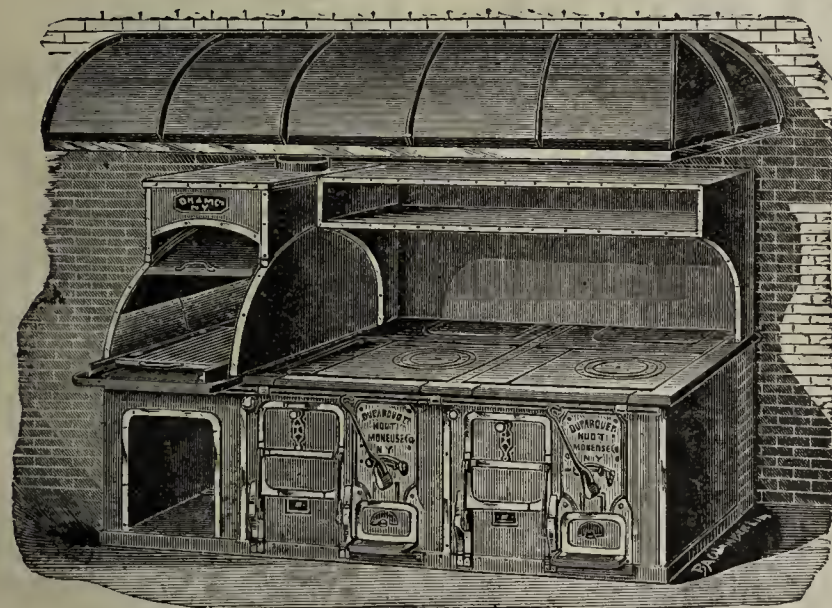
ELIE J. MONEUSE, President.

PIERRE HUOT, Vice-President.

ESTABLISHED 1852.

DUPARQUET, HUOT & MONEUSE CO.

Manufacturers of

**French
Cooking Ranges****AND COOKING EQUIPMENTS
OF EVERY DESCRIPTION****For Hotels, Restaurants, Clubs,
Families, Institutions, Yachts, Etc.**Plans and Installation of the Working Departments of
Kitchens, Bakeries, Etc., a Specialty.**43 AND 45 WOOSTER STREET, : : : NEW YORK****BRANCH HOUSES:**

1420 PENN AVENUE, N. W., Washington, D. C.

88 and 90 NORTH STREET, Boston, Mass.

Layouts and Details, also Catalogues furnished upon application.

Republic Metalware Co., Buffalo, N. Y., & 21
Cliff, New York
Sturges & Burn Mfg. Co., 249 S Green, Chicago,
Ill.
WILSON, F. CORTEZ & CO., 239
Lake, Chicago, Ill. (See adv. index, end of
book)
Winterbaum, Louis Co., 239 Canal, New York

Coopers' Hoop Drives

Piqua Handle & Mfg. Co. (Wood), Piqua, O.

Copper Angles, Channels, Etc.

(See Brass & Copper Angles, Channels, etc.)

Copper (Battery)

(See Battery Coppers.)

Copper Boilers

(See Boilers, Copper.)

Copper (Bolt & Bar)

American Smelting & Refining Co., 71 B'way,
New York
Ansonia Brass & Copper Co., Ansonia, Conn.
Balbach Smelting & Refining Co., Newark, N. J.
Baltimore Copper Smelting & Rolling Mill Co.,
Keyser bldg, Baltimore, Md.
Benedict & Burnham Mfg. Co., Waterbury,
Conn.

Bridgeport Brass Co., Bridgeport, Conn.
Coe Brass Mfg. Co., Torrington, Conn.
Crucible Steel Co. of America, Frick bldg,
Pittsburg, Pa.
Detroit Copper & Brass Rolling Mills, Detroit.
Hendricks Bros., 49 Cliff, New York Mich.
Kendrick Promotion Co., Denver, Colo.

MERCHANT & EVANS CO. (Inc.), 517
Arch, Phila., Pa. (See adv. index & branch
offices, end of book)

Orford Copper Co., 43 Exchange pl, New York
Tacoma Smelting Co., Tacoma, Wash.
Taunton-New Bedford Copper Co., New Bedford
& Taunton, Mass.
United Metals Selling Co., 42 B'way, New York
United States Reduction & Refining Co., Colo-
rado Springs, Colo.

Copper Bolts

(See Bolts, Brass & Copper.)

Copper Bottoms

Ansonia Brass & Copper Co., Ansonia, Conn., &
99 John, New York
Baltimore Copper Smelting & Rolling Co.,
Keyser bldg, Baltimore, Md.
Chicago Brass Co., Kenosha, Wis.
Coe Brass Mfg. Co., Torrington, Conn.
Detroit Copper & Brass Rolling Mills, Detroit,
Mich.
Hussey, C. G. & Co., 2850 2nd ave., Pittsburg,
Pa.
New Haven Copper Co., Seymour, Conn.
Taunton-New Bedford Copper Co., New Bedford
& Taunton, Mass.

Copper (Braziers')

(See Copper Bottoms.)

Copper Coils

(See Pipe Bends & Coils)

Copper Cornices

(See Cornices, Galvanized Iron.)

Copper Dealers (Sheet)

(See Tin Plate, Metals, etc.)

Copper (Dynamo Brush)

Ansonia Brass & Copper Co., Ansonia, Conn., &
99 John, New York
Baltimore Copper Smelting & Rolling Co.,
Keyser bldg, Baltimore, Md.
Benedict & Burnham Mfg. Co., Waterbury,
Conn.
Coe Brass Mfg. Co., Torrington, Conn.
Detroit Copper & Brass Rolling Mills, Detroit,
Mich.

Eureka Tempered Copper Works, North East,
Pa.
MERCHANT & EVANS CO. (Inc.)
(Jobbers), 517 Arch, Phila., Pa. (See adv.
index & branch offices, end of book)
Taunton-New Bedford Copper Co., New Bedford
& Taunton, Mass.

Copper Fire Box Sheets

Baltimore Copper Smelting & Rolling Co.,
Keyser bldg, Baltimore, Md.
Crucible Steel Co. of America, Frick bldg,
Pittsburg, Pa.
Detroit Copper & Brass Rolling Mills, Detroit.
Hendricks Bros., 49 Cliff, N. Y. Mich.
Hussey, C. G. & Co., 2850 2d av, Pittsburg, Pa.
Taunton-New Bedford Copper Co., New Bedford
& Taunton, Mass.

Copper for Commutator Bars

Ansonia Brass & Copper Co., Ansonia, Conn., &
99 John, New York
Baltimore Copper Smelting & Rolling Co.,
Keyser bldg, Baltimore, Md.
Benedict & Burnham Mfg. Co., Waterbury,
Conn.

Coe Brass Mfg. Co., Torrington, Conn.
Detroit Copper & Brass Rolling Mills, Me-
Kinstry av & Wabash R. R., Detroit, Mich.
Eureka Tempered Copper Works, North East,
Pa.
Hendricks Bros., 49 Cliff, New York
MERCHANT & EVANS CO. (Inc.),
517 Arch, Phila., Pa. (See adv. index &
branch offices, end of book)
Taunton-New Bedford Copper Co., New Bedford
& Taunton, Mass.

Copper Froes (Solid Steel)

Klein-Logan Co., S 13th & Breed, Pittsburg, Pa.

Copper Nails

(See Nails, Brass & Copper.)

Copper, Ores, Mattes & Bullion

Ajax Metal Co., 46 Richmond, Phila., Pa., &
Birmingham, Ala.
American Metal Co., 52 B'way, New York
Baltimore Copper Smelting & Rolling Co.,
Keyser bldg, Baltimore, Md.
Tottenville Copper Co., Tottenville, N. Y.
Vogelstein, L. & Co., 90 Wall, New York

*Copper Plating of Iron

JACKSON, WM. H. COMPANY, 29 E
17th (Union sq.), New York. (See adv. in-
dex, end of book)
WISCONSIN IRON & WIRE WORKS,
190 E Water, Milwaukee, Wis. (See adv.
index, end of book)

Copper (Polished)

Baltimore Copper Smelting & Rolling Co.,
Keyser bldg, Baltimore, Md.
Taunton-New Bedford Copper Co., Taunton,
& New Bedford, Mass.

Copper Refiners

American Smelting & Refining Co., 71 B'way,
New York
Baltimore Copper Smelting & Rolling Co.,
Keyser bldg, Baltimore, Md.
DeLamar Copper Refining Works, 96 Wall,
New York
Raritan Copper Works, Perth Amboy, N. J.
Tacoma Smelting Co., Tacoma, Wash.
Tottenville Copper Co. (Pig, Ore, Mattes, Scrap,
etc.), Tottenville, N. Y.

Copper Rivets

(See Rivets, Brass & Copper.)

Copper Rods

(See Rods, Brass & Copper.)

Copper (Roll)

Balbach Smelting & Refining Co., Newark, N. J.
Baltimore Copper Smelting & Rolling Co.,
Keyser bldg, Baltimore, Md.

Benedict & Burnham Mfg. Co., Waterbury,
Conn.
Bridgeport Brass Co., Bridgeport, Conn., & 19
Murray, New York

Chicago Brass Co., Kenosha, Wis.
Coe Brass Mfg. Co., Torrington, Conn.
Detroit Copper & Brass Rolling Mills, Detroit,
Mich.

Eureka Tempered Copper Works, North East,
Pa.

HUNGERFORD, U. T. BRASS & COP-
per Co., 497 Pearl, New York
Hussey, C. G. & Co., 2850 2d av, Pittsburg, Pa.
Nichols Copper Co., 25 Broad, New York
Waterbury Brass Co., Waterbury, Conn., & 99
John, New York

Copper Screws

(See Screws, Brass & Copper.)

*Copper (Scrap).

LEAVITT, C. W. & CO., 222 B'way,
New York. (See adv. index, end of book)

Copper (Sheet)

(See Copper & Brass Sheet)

*Copper Smelting Equipments

WELLMAN-SEAEVER-MORGAN CO.,
Cleveland, & Akron, Ohio. (See adv. index,
end of book)

Copper (Silicon)

Electric Smelting & Aluminium Co. ("Cowles"),
Lockport, N. Y.

Copper Sulphate

American Smelting & Refining Co., 71 B'way,
New York
Baltimore Copper Smelting & Rolling Co.,
Keyser bldg, Baltimore, Md.
Nichols Copper Co., 25 Broad, New York

Copper Trolley Wire

(See Wire Trolley.)

Copper Tubes

(See Tubing, Brass & Copper.)

Copper Wire

(See Wire, Brass & Copper.)

Copper Ware (Stamped, Plated, Etc.)

Atlantic Stamping Co., Rochester, N. Y.
Lalanc & Grosjean Mfg. Co., 19 Cliff, New
York
Manning, Bowman & Co., Meriden, Conn.
Rome Mfg. Co. (Tea-Kettles, Coffee Pots,
Bollers, etc.), Rome, N. Y.
Shepard, Sidney & Co., 60 Tecumseh, Buffalo,
N. Y.
Sweeney, W. H. Mfg. Co., 66 Water, Brooklyn,
N. Y.

Copper & Brass (Sheet)

Ansonia Brass & Copper Co., Ansonia, Conn.,
& 99 John, New York
Baltimore Copper Smelting & Rolling Co.,
(Copper Only), Baltimore, Md.
Benedict & Burnham Mfg. Co., Waterbury,
Conn.
Bridgeport Brass Co., Bridgeport, Conn., & 19
Murray, New York
Bristol Brass Co. (Brass Only), Bristol, Conn.
Chase Rolling Mill Co., Waterbury, Conn.
Chicago Brass Co., Kenosha, Wis.
Coe Brass Mfg. Co., Torrington, Conn.
Crucible Steel Co. of America (Copper Only),
Frick bldg, Pittsburg, Pa.
Detroit Copper & Brass Rolling Mills, McKin-
stry av & Wabash R. R., Detroit, Mich.
Eureka Tempered Copper Works, North East,
Pa.
Hendricks Bros. (Copper only), 59 Cliff, New
York
HUNGERFORD, U. T. BRASS & COP-
per Co., 497 Pearl, N. Y.

Hussey, C. G., & Co. (Copper Only), 2850 2d av., Pittsburg, Pa.
 Manhattan Brass Co., 338 E 28th, New York
MERCHANT & EVANS CO. (Inc.)
 (Jobbers), 517 Arch, Phila., Pa. (See adv. index & branch offices, end of book)
 New Haven Copper Co. (Copper Only), Seymour, Conn.
 Plume & Atwood Mfg. Co. (Brass), Waterbury, Conn.
 Randolph-Clowes Co., Waterbury, Conn.
 Rome Brass & Copper Co., Rome, N. Y.
 Scovill Mfg. Co. (Brass Only), Waterbury, Conn.
 Seymour Mfg. Co., Seymour, Conn.
 Taunton-New Bedford Copper Co. (Yellow Metal Only), New Bedford & Taunton, Mass.

UNION EQUIPMENT AND BRONZE CO.

520 W 36th, N. Y. (See adv. outside stencil)
 Waterbury Brass Co., Waterbury, Conn.

Coppers (Tillery Canning)

Hull, J. S. Mfg. Co. ("Hull"), Baltimore, Md.
SPRAGUE CANNING MACHINERY
 Co., 42 River, Chicago, Ill. (See adv. index, end of book)

*Coppersmiths

(See also Boilers, Range, Copper)

BADGER, E. B. & SONS CO., 75 Pitts,
 Boston, Mass. (See adv. index, end of book)

*Copying Apparatus

(See also Duplicators; also Presses, Copying)
 American Multigraph Co. ("The Gammeter Multigraph" for Office Printing Devices, Facsimile Letters, etc.), Case av & Kelley, Cleveland, O.

*Cordage (Braided)

(See also Sash Cords.)

CARPENTER, GEO. B. & CO., 202
 S Water, Chicago, Ill. (See adv. index, end of book)

SAMSON CORDAGE WORKS (Sash,
 Trolley, Arc Lamp, Bell Cord, Clothes Lines, Masons', Curtain Cords, Tiller Rope, etc.), 88 Broad, Boston, Mass. (See adv. index, end of book)

SILVER LAKE CO., 78 Chauncey,
 Boston, Mass. (See adv. index, end of book)

Cordage & Twine Mfrs.

(See also Twines, Binder; also Rope Mfrs. of Various Kinds.)

Allen, J. & S. (Cotton, Twines & Lines), Wal-
 pole, Mass.

American Mfg. Co., 63 Wall, N. Y.
Anniston Cordage Co., Anniston, Ala.

Ashaway Line & Twine Mfg. Co. (Fish Lines & Cotton Seine Twines, etc.), Ashaway, R. I.

Atkins & Pearce Mfg. Co., 5th & Eggleston av.,
 Cincinnati, O.

Bailey, Christopher & Son (Bag Rope & Twine,
 also Jute Twine), 320 Market, Phila., Pa.

Bailey, Jno. T. & Co., S. Water & Morris,
 Phila. Pa.

Barrows, Jno. (Hammock, etc.), Lausdale, Pa.
Beaumont Mfg. Co., Spartanburg, S. C.

Bentley & Gerwig (Hemp & Flax Twine), New
 Brighton, Pa.

Boehme & Rauch Co. (Rope, Twine & Cord-
 age), Monroe, Mich.

Bonte Cordage Co. (Jute & Hemp Twines), Han-
 over, Pa.

Boscanan Mills (Inc.) (Cotton, Cords & Twine),
 Penacook, N. H.

Boston Thread & Twine Co. (Twine), 178 De-
 vonshire, Boston, Mass.

California Cotton Mills Co. (Cotton Rope & Twine),
 Oakland, Cal.

California Jute Mill Co. (Jute Twine), 3 Call-
 fornia, San Francisco, Cal.

CARPENTER, GEO. B. & CO., 202
 S Water, Chicago, Ill. (See adv. index, end of book)

Central Mills Co. (Cotton Twine), Southbridge,
 Mass.

Charlotte Cordage Co., Charlotte, N. C.
Chelsea Fibre Mills (Flax, Jute, etc.), 33 Union
 sq., New York. Factory: Brooklyn, N. Y.

Cleveland Cotton Mills Co. (Cotton Twine),
 Cleveland Mills, N. C.

Columbian Rope Co. (Oil Well & Tarred Cord-
 age & Jute & American Hemp, Twine, etc.), Auburn, N. Y.

Consolidated Cotton Duck Co. (Cotton Twine),
 Baltimore, Conn.

Dolphin Jute Mills (Jute, etc.), Paterson, N. J.
Draper, W. H. & Son (Braided & Twisted Wire,
 Picture Cord & Cotton Twine, etc.), Troy, N. Y.

Easton Cordage Co. (Cordage), Easton, Pa.
Elder, Jas. (Cotton Cordage), 230 W. Coulter
 Gtn., Philadelphia, Pa.

Empire State Bag Co. (Flax & Jute), 742 Wythe
 av., Brooklyn, N. Y.

Estes Mills (Inc.) (Twine), Fall River, Mass.
Estes, Jno. H. & Son (Twine), Fall River,
 Mass.

Fall River Twine Mfg. Co. (Cotton Harness,
 Twine & Thread), Fall River, Mass.

Fittler, Edwin H. Co., 22 N. Delaware av., Phil-
 adelphia, Pa.

Flocker, Jno. & Co. (Ltd.), 935 Liberty, Pitts-
 burg, Pa.

Fogg, Geo. R. (Cordage & Linen Harness
 Twine), 3450 Gtn. av., Philadelphia, Pa.

Gates Line & Twine Co. (Twine), Canonchet,
 R. I.

Gloucester Net & Twine Co. (Cotton Twine),
 Gloucester, Mass.

Hoffman-Corr Mfg. Co., 55 White, New York
Jackson, Thos. & Son (Manilla, Sisal & Jute
 Rope, Cordage & Twine), Reading, Pa.

Jacobs, Chas. M. Cordage Co., Neave bldg., Cin-
 cinnati, O.

Jacobs Cordage Co., Harriet & Budd, Cincinnati,
 O.

Kelly, R. A. Co. (Sisal, Manilla & New Zea-
 land), Xenia, O.

Kentucky River Mills (Hemp Binder & Commer-
 cial Twines), Frankfort, Ky.

Lambert Rope Corporation (Cotton), New Bed-
 ford, Mass.

Lawrence Duck Co. (Cotton Twine), Lawrence,
 Mass.

Meagher's, Jas. Sons (Jute or Flax Cordage),
 327 28th, San Francisco, Cal.

Miamisburg Twine & Cordage Co., Miamisb'g, O.
New Bedford Cordage Co., New Bedford, Mass.

Niagara Cordage Co., Buffalo, N. Y.
Overman & Schrader Cordage Co. (Jute, Hemp
 & Flax), Covington, Ky.

Pelham Mills (Thread & Twine), Pelham, Mass.
Planet Mills Mfg. Co. (Jute Twine, Rope, etc.),
 335 Carroll, Brooklyn, N. Y.

Plymouth Cordage Co. (Cordage & Binder
 Twine), North Plymouth, Mass.

Portland Cordage Co. (Flax Cordage & Binder
 Twine), Portland, Oregon

Radcliffe & Shaw (Jute Twine & Rope), Glen
 Rock, Pa.

Schlichter Jute Cordage Co., 20 N Front, Phila.,
 Pa.

SILVER LAKE CO. (Braided, Cord-
 age, etc.), 78 Chauncey, Boston, Mass. (See adv. index, end of book)

Smith & Dove Mfg. Co. (Flax Twine), Andover,
 Mass.

Standard Cordage Co. (Binder Twine, etc.),
 82 Beaver, New York

Standard Rope & Twine Co. (Flax & Jute), 17
 State, N. Y.

Sun Mills Mfg Co. (Cotton Cordage & Twine),
 Fitchburg, Mass.

Tragle Cordage Co. (Wholesale Dealers), Read-
 ing, Pa.

Travers Bros. Co. (Wholesale Dealers), 41
 Worth, New York

Uhler & English, 106 N. Delaware, Philadel-
 phia, Pa.

Wall Rope Works, 56 South, New York
Ware, Bruce R. & Co., 103 Bedford, Boston,
Willard Mfg. Co. (Cotton Twine), Willard-
 ville, N. C.

Yocona Cotton Mills (Inc.), Water Valley,
 Miss

Cords (Bell, Round Leather)

National Rawhide & Belting Co. (Surface & Oak
 Tan, Flat & Round), Niles, Mich.

New York Leather Belting Co., 51 Beekman,
 New York

Western Rawhide & Belting Co. (Rawhide),
 Milwaukee, Wis.

Cords (Flexible)

American Electrical Works, Phillipsdale, R. I.
AMERICAN STEEL & WIRE CO.,
 The Rookery, Chicago, Ill. (See adv. index & branch offices, end of book)

Ansonia Electrical Co., Ansonia, Conn.
Benedict & Burnham Mfg. Co., Waterbury,
 Conn.

Bishop Gutta Percha Co., 422 E 25th, New York
BRIXEY, W. R. ("Kerite"), 203
 B'way, New York. (See adv. index, end of book)

Chicago Insulated Wire & Mfg. Co., 152 Lake,
 Chicago, Ill.

Eastern Electrical Cable Co., 61 Hampshire,
 Boston, Mass.

Indiana Rubber & Insulated Wire Co., Jones-
 boro, Ind.

McEvoy, Chas. H. ("Duro"), Lowell, Mass.
Moore, Alfred F., 202 N 3d, Phila., Pa.

National India Rubber Co., Bristol, R. I.
OKONITE CO., Ltd., 253 B'way, N. Y.
 (See adv. index, end of book)

ROEBLING'S, JOHN A. SONS CO.,
 (of N. Y.), Trenton, N. J., & 117 Liberty,
 York. (See adv. index, & Branch offices, end of book)

Safety Insulated Wire & Cable Co., 114 Lib-
 erty, New York

SPRAGUE ELECTRIC CO. (Steel Ar-
 mored), 527 W 34th, New York. (See adv. index, end of book)

Western Electric Co., 259 S Clinton, Chicago,
 Ill., & 57 Bethune, New York

Cords (Incandescent Lamp)

American Electrical Works, Phillipsdale, R. I.
Bishop Gutta Percha Co., 422 E 25th, New York
Hazard Mfg. Co., Wilkes-Barre, Pa., & 50 Dey,
 New York

Moore, Alfred F., 202 N 3d, Philadelphia, Pa.
Safety Wire Cable Co., 114 Liberty, New York
Western Electric Co., 259 S Clinton, Chicago,
 Ill., & 57 Bethune, New York

Cords (Picture)

Draper, W. H. & Son, Troy, N. Y.
Wire Goods Co. (Braided Wire), Worcester,
 Mass.

WRIGHT WIRE CO. (Braided Wire),
 Worcester, Mass. (See adv. index and branch offices end of book)

Cords (Telephone & Switchboard)

American Electrical Works, Phillipsdale, R. I.
Bishop Gutta Percha Co., 422 E 25th, New York
McEvoy, Chas. H. ("Duro"), Lowell, Mass.
Moore, Alfred F., 202 N 3d, Philadelphia, Pa.
Premier Electric Co., 118 W Jackson Boulv.,
 Chicago, Ill.

Cords (Tinsel & Copper)

Bishop Gutta Percha Co., 422 E 25th, New York
Gregory, Wm., Paterson, N. J.
Moore, Alfred F., 202 N 3d, Philadelphia, Pa.
Premier Electric Co., 118 W Jackson Boulv.,
 Chicago, Ill.

Western Electric Co., 259 S Clinton, Chicago,
 Ill., & 57 Bethune, New York

Cords (Trolley, Arc Lamp & Bell)

CARPENTER, GEO. B. & CO., 202
 S Water, Chicago, Ill. (See adv. index, end of book)

Frieke, J. E. Co. ("Jefferson," Solid Braided),
 Phila. Pa.

Hoffman-Corr Mfg. Co., 55 White, New York
Jacobs, Chas. M. Cordage Co., Neave bldg, Cin-
 cinnati, O.

Jacobs Cordage Co., Harriet & Budd, Cincinnati,
 O.

Littman, I., Salisbury, N. C.
Mallison Braided Cord Co., Athens, Ga.
Robbins, O. A. & Co., Charlotte, N. C.

SAMSON CORDAGE WORKS, 88
 Broad, Boston, Mass. (See adv. index, end of book)

SILVER LAKE CO. (Braided), 78
 Chauncey, Boston, Mass. (See adv. index, end of book)

Textile Mfg. Co., Rockingham, N. C.
Tucker & Carter Rope Co., 76 South, New York.
 Factory: New London, N. C.

Corers (Apple)

Landers, Frary & Clark ("Rapid"), New Bri-
 tain, Conn.

Parker Wire Goods Co., Worcester, Mass.
Rollman Mfg. Co., Mt. Joy, Pa.

Corers (Cabbage)

Johnson, Wm. (Hedberg Works), Newark,
 N. J.

Cores (Armature & Magnet)

Chicago Screw Co., 2 N. Canal, Chicago, Ill.

Cork Carpets

American Linoleum Mfg. Co., 78 Worth, New York
Chicago Linoleum Co., Chicago, Ill.
Fan & Bailey Mfg. Co., Camden, N. J.
Nairn Linoleum Co., Kearney, N. J.
Potter, Thos., Sons & Co., 522 Arch, Phila., Pa.

Cork Chips

Armstrong Cork Co., Pittsburg, Pa.
Waeber & Lea Co., 120 Hudson, New York

Cork Covering Mfrs.

Armstrong Cork Co., 23d & River, Pittsburg, Pa.
Bruening Cork Co., Oakdale, Pa.
Nonpareil Cork Works, 105 Hudson, New York

Cork (Granulated, for Insulation)

Armstrong Cork Co., 23d & River, Pittsburg, Pa.
Bruening Cork Co., Oakdale, Pa.

Cork Mfrs.

Armstrong Cork Co., 23d & River, Pittsburg, Pa.
Bruening Cork Co., Oakdale, Pa.
Butz, A. L. Cork Co., 829 N 3d, Phila., Pa.
Cahn, Hugo & Co., 67 Murray, New York, N.Y.
Colgan, J. B., 552 State, Brooklyn, N. Y.
Crown Cork & Seal Co., 1511 Guilford av., Baltimore, Md.
Farrell, Wm. J., 115 Maiden Lane, New York, N. Y.
Goodwin Cork Corporation, Norwich, Conn.
Paddock Cork Co., 1209 De Kalb av., Brooklyn, N. Y.
Bedlich Mfg. Co., 2 Oak, Chicago, Ill.
Williamsburg Cork Works, 57 Murray, New York, N. Y.

Cork Screws

Browne & Dodd Mfg. Co., Meriden, Conn.
Erie Specialty Co. ("Walkers"), Erie, Pa.
Humason & Beckley Mfg. Co., New Britain, Conn.
Rockwell-Clough Co. (Wire), Alton, N. H.
Williamson, C. T. Wire Novelty Co. (Self-Acting Combination, also small Wire Cork-Screws), Newark, N. J.

Corn Binders & Harvesters

Adriance, Platt & Co. ("Adriance"), Poughkeepsie, N. Y.
International Harvester Co. of America ("Champion," "Deering," "McCormack," "Milwaukee," "Plano," "Osborne"), 7 Monroe, Chicago, Ill.; Osborne Plant, Auburn, N. Y.
Johnson Harvester Co. ("Johnson"), Batavia, N. Y.
Kellogg Harvester Co. ("Kellogg"), Chicago, Ill.
Wood, Walter A., Mowing & Reaping Machine Co. ("New Century"), Hoosick Falls, N. Y.

Corn Hoppers (Wire)

Wickwire Bros., Cortland, N. Y.

Corn Husking Goods.

Boss Mfg. Co. (Gloves, Mittens, etc.), Kewanee, Ill.

Corn Planters

(See Planters, Corn.)

Corn Poppers

(See Roasters, Peanut.)

Corn Shellers

(See Shellers, Corn.)

Corner Bands for Cars

Davis Pressed Steel Co. (Pressed Steel), Wilmington, Del.

Corner, Base & Head Block Mfrs.

American Carving & Mfg. Co., Grand Rapids, Mich.

Crampton & Belden Mfg. Co. (Wholesale Mfrs.), Green Island, Troy P. O., N. Y.
Curtis Bros. & Co. (Wholesale Mfrs.), Clinton, Ia.

Curtis & Bartlett Co. (Wholesale Mfrs.), Lincoln, Neb.

Curtis & Yale Co. (Wholesale Mfrs.), Lumber Exch., Minneapolis, Minn.

Disbrow, M. A. & Co. (Wholesale Mfrs.), Lyons, Ia.

Foster-Munger Co. (For the Trade Only), W 20th & S Sagamon, Chicago

Fuller & Rice Lumber & Mfg. Co. (For the Trade Only), Grand Rapids, Mich.

Gauger, Jno. A. & Co. (for the trade only), W 22d & Laflin, Chicago

Gebhardt, J. F., 255 Cayler, Brooklyn, N. Y.

Gould Mfg. Co. (for the trade only), Oshkosh, Wis.

Harris & Cole Bros. (for the trade only), Cedar Falls, Ia., & Columbia, Tenn.

Lawrence, Newhall, Page & Co., Augusta, Me.

Lidell, Wm. C., 597 Austin av, Chicago, Ill.

McMillen, R. Co. (for the trade only), Oshkosh, Wis.

Morgan Co. (for the trade only), Oshkosh, Wis., & W 22d & S Union, Chicago

New York Carved Moulding Co., Rider av & 139th, New York

Paine Lumber Co. (for the trade only), Oshkosh, Wis., & 1 Madison av, N. Y.

Pierce, W. E. & Co., Milford, N. H.

Radford Sash & Door Co. (for the trade only), 192 W 22d, Chicago

Roberts, E. L. & Co. (for the trade only), W 22d & Union pl, Chicago

Rock Island Sash & Door Works (Wholesale Mfrs.), Rock Island, Ill.

STEARNS, A. T. LUMBER CO., Neponset, Boston, Mass. (See adv. index, end of book)

Stearns, J. S., Bennett, Mich.

Waddell Mfg. Co., Grand Rapids, Mich.

Zimmerman, Chas. E., 204 Burnet av, Syracuse, N. Y.

Corner Beads (Plastering)

(See Plasterers' Steel Corner Beads)

*Corner Posts & Transom Bars

COULSON, J. W. & CO. (For Plate Glass Windows), 93 N 3d, Columbus, O. (See adv. index & branch offices, end of book)

Corners (Box)

(See also Box Straps.)

Brainerd Mfg. Co. (also Chest), Despatch, N. Y.

Brass Goods Mfg. Co. (Also Chest), Nevin cor Union, Brooklyn, N. Y.

CARY MFG. CO., 19 Roosevelt, New York. (See adv. index, end of book)

De Haven Mfg. Co., 50 Columbus Hts., B'klyn, N. Y.

Jenkinson, R. C. & Co., Newark, N. J.

Voelkner & Reinke Mfg. Co. (Brass or Steel Finish, 123 W Woodbridge, Detroit, Mich.

Corners (Casket)

Voelkner & Reinke Mfg. Co. (Brass or Steel Finish) 123 W Woodbridge, Detroit, Mich.

Waddell Mfg. Co., Grand Rapids, Mich.

Corners (Partition)

Western Brass Mfg. Works (Iron or Brass), 21st & Rockwell, Chicago, Ill.

Cornice Brakes

Double Truss Cornice Brake Co., Buffalo, N. Y.

Dreis & Krump ("O. K."), 3216 S. Halstead, Chicago, Ill.

Ohl, Geo. A. & Co. (Automatic Power, etc.), 157 Oraton, Newark, N. J.

Peck, Stow & Wilcox Co., 27 Murray, N. Y. & Southington, Conn.

Robinson, J. M. Mfg. Co. (Improved Double Eccentric), 62 Central av, Cincinnati, O.

Cornice Copper Mfrs.

(See Copper & Brass Sheet.)

Cornice Makers' Machinery

(See Machinery, Cornice Makers'.)

Cornices (Galvanized Iron, Etc.)

ALABAMA.

ANNISTON—Anniston Supply Co.
BESSEMER—Bessemer Cornice Works
BIRMINGHAM—East Birmingham Iron Roofing
Spiro, S., 1920 3d av & Corrugating Co.
Wheelock, George F. Co., 107 S 21st
DECATUR—Brown, W. A.
GADSDEN—Agricola, Otto.
MOBILE—Partridge, C. S. Hardware Co.
NEW DECATUR—Decatur Cornice & Roofing Co.
OPELIKA—Galbraith, J. F.
Galbraith, W. A.
TALLADEGA—Michael, J. E. Supply Co.

ARIZONA.

PHOENIX—Burtis, D. H.
TUCSON—Gardiner, Worthen & Goss Co.
Julian, W. A. Co.

ARKANSAS.

ARGENTA—Johnson, John George
FORT SMITH—Bruce Bros.
Thomas, E. A.
HELENA—Helena Job Works
Helena Tin & Plumbing Co.
HOT SPRINGS—Hot Springs Plumbing & Machine Co.
William Schweder Co.
LITTLE ROCK—Fones Bros. Hardware Co., 200 Main
Foster Hardware Co., 301 Main
McCardell Bros., 522 Center
Robinson, J. K. & Co., 108 E 4th
MARIANNA—Plummer & Davis
MENA—Garrison, Geo.
PINE BLUFF—Dellmon, Jno. H., Jr.
Fox Bros. Hardware Co., 202 Main

CALIFORNIA.

FRESNO—Barrett-Hicks Co.
Kutner-Goldstein Co.
LOS ANGELES—Aldrich, C. C., 3216 S Main
American Cornice Works, 1710 S Main
Bruce, T. P., 760 W 6th
California Cornice Works, 723 N Main
City Cornice Works, 1800 S. Main
Eagle Cornice Works, 331 E 2d
Edwards & Collins, 110 S. Anderson
Erhardt, C. A., 230 E. 4th
Foster, E. W., 744 S Main
Gibbs, Wm. H., 2948 W Pico
Hannas, L. H. & Son, 1223 W Washington
Justice & Crabb Cornice Works, 313 Bellevue av
Keays, A. A., 237 E 4th
Krause & Rheinberger, 402 E 6th
Lederle, E. E., 1835 S Main
Los Angeles Furnace & Cornice Works 744
Metzger, Theo., 1044 Bryam S. Main
Panzer & Hamilton, 231 Aliso
Parkers, A. W., 794 Towne av
Philips Heating and Ventilating Co., 1234 S. Figueroa
Pioneer Cornice Works, 313 Sunset Boulv.
Quincy & Hill Cornice Works
Quinn, E. L., 1134 Crocker
Rosen, J., 657 Central av
Schaefer, Wm., 716 San Pedro
Sory, W. G., 1623 S. Main
Trinkeller, E. G., 1720 S. Main
Union Cornice Works, 526 Los Angeles
PASADENA—Dunn, W. H., 26 W Union
POMONA—Caldwell, B. F.
Osler, O. F.
POPLAR—Howell, J. L.
RIVERSIDE—Copley Bros.
McCormick-Ormand Co.
Shiels & Sons
SACRAMENTO—Earle, Edw. E.
Scott, Lyman & Stack (Inc.)
Sinclair & Bessey
SALINAS—Anderson & Dougherty
SAN DIEGO—Johnstone & Son
Nichols & Heilbron
San Diego Sheet Metal Works
Thoms & Blair
SAN FRANCISCO—Comyns-Childers Co. (Inc.),
Conlin & Roberts, 928 Howard 412 Valencia
Cronan's Eagle Cornice Works, 30 8th
Forderer Cornice Works, 10 Natoma Str.
Guilfooy Cornice Works, 1187 Howard
Heidt, W. Cornice Works, 224 Mission
Olmo, Frank, 813 San Jose av
San Francisco Cornice Co., 200 Florida
SAN JOSE—Mangrum & Otter Co.
SANTA ANA—Hills, S. & Son
McFadden, John E.
Nickey, F. P. Hardware Co.

SANTA BARBARA—Boeske-Dawe Co.
Booth, R. L.
Ott Hardware Co.
SANTA CRUZ—Byrne Bros.
SANTA MARIA—Bryant & Trott
SANTA ROSA—Demmer Chas.
Potter, J. H., & Son
STOCKTON—Jackson & Earle

COLORADO.

ALAMOSA—Spriesterbach Hardware Co.
COLORADO SPRINGS—Bumstead, F. E.
Lowell-Meservey Co., 106 S Tejon
DENVER—Binstin & Creamer, 1431 Lawrence
Crosta, C. A. & Bro., 1830 Market
Denver Cornice Co., 1850 Lawrence
Denver Sheet Metal Works, 1242 11th
Fair, Chas. W. Cornice Work Co., 1809
Blake
Globe Cornice & Heating Co., 756 B'way
Kessler, Fred, 2708 Larimer
O'Brien, D. L., 3827 Downing av
Penn Metal Ceiling & Roofing Co., 3060
Newton

Stephenson, W. E., 2807 Welton
Walter, Louis H., 1426 Blake
Wahlgren, Jno. A., 1933 Curtis
DURANGO—Chapman, W. C.
Nagelin, Charles
FLORENCE—Spencer, T. E.
Wilson, George Hardware & Supply Co.
GLENWOOD SPRINGS—Metelman, H. C.
OURAY—Arps Bros. Hardware Co.
PUEBLO—Klein, Henry
TRINIDAD—Branson & Griswold Hardware Co.
Brown, H. B. Co.

CONNECTICUT.

BRIDGEPORT—Bridgeport Cornice Works, 227
John
Bridgeport Cornice Works, 227 John
DROUVE, G., CO. (Sheet Metal,
Copper, Galv. Iron, etc.), 40 Tulip. (See
adv. index, end of book)
Hurley, Jas. J., 606 E Main
Kirk, W. P. Co., 360 Fairfield av
Middlebrook & Goulden, 40 Court
Mills, L. H., 32 Middle
Reilly, J., Jr., 283 State
Schwing, Jno. Corporation, 236 Stratford av
HARTFORD—Beseman & Bostwick, 44 Ann
Cullen & Lurie, 172 Allyn
Stelling, Fred. W., 93 Franklin
MERIDEN—Griswold, Richmond & Glock Co.,
Wheeler, F. J., 17 W Main 2 W Main
MIDDLETOWN—Bacon Bros., 287 Main
Flynn, J. Taylor, 160 Court
NEW BRITAIN—Hannon, M. E. & Co., 93
Franklin

NAUGATUCK—Page, Jno. M. & Co.
NEW HAVEN—Bradley Co., 158 Orange
Buckingham, Routh Co., 151 Court
Corbett, T. W., 29 B'way
Curtiss & Pierpont Co., 272 Elm
Dorman & Cugell, 167 Congress av
Perry, Harry M., 218 George
Rourke Bros. Co., 834 Grand av
Sheahan & Groark, 285 State
Sheehan, Dan. M., 108 Court
NORWALK—Van Scoy, F. C. & Co., 50 S.
Main

NORWICH—Gibson, S. F., 55 W. Main
PUTNAM—Chandler & Morse
Field, N. W. & Co.
Kenyon, R. L.
Perry & Brown
SOUTH MANCHESTER—Carrier, E. T.
Ferris Bros.
STAMFORD—Brown, J. M., 50 Bedford
Horan, J. J., 5 Canal
WATERBURY—Barlow Bros. Co., 65 Grand
Coen, Wm. J., 11 Spring
Disley, Wm. T. Co., 276 Bank
Weyand, Henry Co. (Inc.), 22 Jefferson
WATERTOWN—Sniffa, Jos.
WOODBURY—Hitchcock, F. F.

DELAWARE.

DOVER—Dover Machine Works & Foundry
MILFORD—Gray, S. N.
NEW CASTLE—Handy, E. W.
Kegan & Hinfal
WILMINGTON—Biddle, Sam., 102 W 8th
Cooke, H. L., 715 Shepley
Johnson, W. J., 909 Walnut
Wilmington Cornice Works, 501 E 11th

DISTRICT OF COLUMBIA.

WASHINGTON—Beck, J. F., 425 K, N W
Gichner, Ernest, 1214 D, N W
Giclas, H. J., 117 4th, N W

Giclas, Louis, 502 K, N W
Harrington, Jno. J., 3027 M, N W
Hulse, Edgar J., 321 13th, N W
Matley Co., 1918 Pa. av, N W
Reavis, Albert S., 719 2d, N E
Stockstill, D. W. & Co., 215 12th, N W
Whyte, W. M., 304 13th, N W
Wolfsteiner, O. L. Co., 1315 W, N W

FLORIDA.

JACKSONVILLE—Ballon, Geo. F.
Macy & Johnson
Stafford & Ward Co.
KEY WEST—Johnson, W. A., & Bros.
Page, A. J.
PENSACOLA—Avery, A. M.
Vetter, C. B.
SANFORD—Fernald, Geo. H. Co.
Hill, A. E.
TAMPA—Berry, W. J. & Co.

GEORGIA.

ABBEVILLE—Moody, E. A.
AMERICUS—Schroeder, W. H. R.
ATLANTA—Dowman-Dozier Mfg. Co., 22 Trin-
ity av
Franklin Plbg & Tinning Co., 121 Whitehall
Hunnicutt, J. E. & Co., 56 Peachtree
Gouge, C. A., S3 N Pryor
Warlick & Kennedy Co., 59 E Alabama
Southern Roofing Co., 106 S Forsyth
AUGUSTA—Hargraves, W. H.
Jessup, E. S.
Slusky, David
BRUNSWICK—Baker, M. G.
Daniels, Moses
CARTERSVILLE—Lumpkin Bros.
COLUMBUS—Gartman, W. D.
Russell, J. C.
Sheridan, Geo. W.
GRIFFIN—Hawkins Tlu & Plumbing Co.
MACON—Macon Tin & Plumber Co.
Rick, L. C.
Suher's, S. M. Son
ROME—Neals, James
SAVANNAH—Cox, C. A., 142 Barnard
Hahne, Frank, 212 Drayton
Hobbs Bros. & Co.
Karsmann, F. & M.
Pacetti's, E. C., Sons
Savannah Blow Pipe Co.

IDAHO.

BLACKFOOT—Curtis, H. W.
BOISE—Idaho Hardware & Plumbing Co. (Ltd.)
IDAHO FALLS—Griffith's Cash Hardware &
Plumb. Co.

ILLINOIS.

ABINGDON—Lachaine, H. & Co.
ALTON—Degenhardt, A. J.
Eckhard, C.
AURORA—Kendall, Jno. W. & Son
Messenger & Parks
AVA—Johnson, M. B.
BATAVIA—Barclay, John & Son
U. S. Wind Eng. & Pump Co.
BELLEVILLE—Geel, J. A.
Lebkenecher, L.
BELVIDERE—Ray Bros.
BERWYN—Becker, Frank
BLOOMINGTON—Butler, Harry
Muhl, F. C.
Read, G. H. & Bro.
BLUE ISLAND—Clausen, Henry G.
Schreiber Bros.
Vandenbergh & Pronger
BOWEN—Walty, Albert
CAIRO—Morris, J. W.
CHAMPAIGN—Mollett, Chas.
Ver Haar, Jno.
CHICAGO—Aarup, H. C., 7009 S Elizabeth
Andersen, L., 274 Grand av
Armbruster, Louis, 767 Lincoln av
Atlas Cornice Works, 1109 S Sawyer
Block, Rudolph F., 774 Lincoln av
BERGER MFG. CO., 40 Dearborn.
(See adv. index, end of book)
Bloomer & Goldman 262 33d
Bohnett, W. R., 4324 Cottage Grove av
Bremer & Bielenberg, 1136 W 13th
Burkhardt, G. Mfg. Co., 940 N Clark
Clark, R. F., 503, 100 Lake
Conen, Stephen, 1876 Lincoln av
Descaux, Bertrand, 1752 W 22d
Diebler, Louis, 67 Dearborn
Elke, Otto, 1150 W 63d
Erickson, Gus A., 1340 N Western av
Erickson, John T., 4430 La Salle
Evick, Henry, 3535 5th av

Farwell Cornice Co., 145 La Salle
Fivek & Sule, 1274 S Trumbull av
Forsman, John A., 441 W 58th
Friedley & Voshardt, 204 Mather
Gelser, August J., 1391 W Chicago av
Glatt, Jacob, 517 Dickens av
Glowacki, Jno. B., 4528 S Ashland av
Graebke, Fred C. & Co., 673 Sheffield av
Griffith Cornice Works, 1716 Wabash av
Guenther, Richard, 264 Avondale av
Hamer, Fred, 75 North av
Heckler, Herman, 351 E 63d
Hempel, Max, 282 92d
Hendle, Nicholas, 450 Roscoe
Herdlicka Bros., 970 S Troy
Herr, Wm., 610 W 15th
Hirsch, K., 559 N Wood
Holzwarth, A., 1339 Wellington
Illinois Roofing & Cornice Co., 319 W.
Jaeger, Fred'k J. C., 571 W 17th
Klinzle
Jensen, C. E., 1218 W North av
Kesslin, Chas., 489 W Chicago av
KNISELY, H. C. CO., 273 S. Canal.
(See adv. index, end of book)
Knisley Bros., 28th pl & 5th av
Krautwurm, Wm., 200 Canalport av
Krefting, Edw., 119 W Van Buren
Kuder, Chas. V. Co., 5315 Wentworth av
Lang, Wm., 300 Warsaw av
Lavery, Jno. V., 4315 State
Lengacher, Wm., 256 Larrabee
Liddle, Robt., 2645 State
McFARLAND, J. C. & CO., 5th av
& 27th. (See adv. index, end of book)
McIlroy-Jennings Cornice Works, 1519 State
McIver, Evander, 3251 Cottage Grove av
Mader, Chas. & Co., 669 W Lake
Maehler, Paul C., 203 W Lake
Martin Bros., (J. C. & L. T.), 1220 W
Madison

Masterton, Albert E., 9140 Houston av
Meisel, Ferdinand, 589 N Halsted
Mersch, Chas. A., 48 Mohawk
Michels, C. N. Co., 2573 Evanston av
Miller, Jas. A. & Bro., 136 S Clinton
Monroe, John F., 453 Humboldt av
Monroe, Wm. E., 2356 Eherly av
Moorhead, Thos. D., 6637 Vernon av
National Sheet Metal Works (Skylights), 673
Larrabee
Perkinson & Brown (Skylight), 113 N Lincoln
Peter, John, 632 N Wood
Petersen, Thos., 705 W Chicago av
Purdy & Cauble, 800 W 63d
Rehling, K. J., 4525 State
Reinhardt, Otto A., 229 Center
Reuter, Edw'd., 959 W 13th
Rickert, Harry J., 838 W 12th
Rosenberger, Edw'd., 935 Lemoyne
Rychtik, Frank, 673 W 21st
Rychtik, Joseph, 582 Throop
Rysdon, E. A., & Co., 629 W 41st
Schaeffer Co., 1020 S Central Park av
Schneider & Meng, 320 Clybourn av
Schwedland, Rudolph & Son, 2803 S Halsted
Slavik, Frank, 635 Ogden av
Slavik & Co., 425 Blue Island av
Smith, Jno. & Co., 1344 W 22d
Smrcka, W. J. & Bro., 251 B 25th pl
Spaltenstein, Henry, 120 Newberry av
Spless, Edw., 76 Orchard
Staar, Frank, 973 N Halstead
Statler, C. Alh., 957 W Taylor
Sykes Steel Roofing Co. (Also Copper), 112
Theln, Jos. H., 1340 W 59th W 19th pl
Trede, Edw. J., 1447 W Division
Tuffer, Chas., 2309 W Erie
Universal Cornice Works, 970 S Troy
Vallas, Wm. H., 1325 W Lake
Voigtmann, Frank Cornice Co. (Skylights),
129 N Franklin

Wagner Bros., 1350 Diversey bou
Warner, Chas. W., 93 W Harrison
Warner, Rush K. (Estate), 93 W Harrison
Watson, W. D., Co., 302 W Van Buren
Williams, Owen R., 1716 Wabash av
Yeldham & Keuser, 269 W Van Buren
Zakrzewsky, Herman, 378 W Belmont av
DANVILLE—Balsley & Dettman
King Bros.
DAVIS—Caldwell, J. M.
DECATUR—Barringer, Wm.
DE KALB—Kaiser, A.
Rodman & Anderson
Sheets & Knodle Co.
Smith, C. F.
DIXON—Hoffman, John
EAST ST. LOUIS—East St. Louis Hardware Co.
Golden, Geo. A.
Haines, O. J. & Son
Jordan, F. B.
Mauer, Chas.
EDINBURG—Ballet, Jacob
EDWARDSVILLE—Bernreuther Bros.
EFFINGHAM—Feldhake, J. J.

ELGIN—Moore & Hawkins
 GALESBURG—Block & Hillman
 Galesburg Cornice Works
 Rearick, F. H. & Son
 HIGHLAND PARK—Purdy, D. C. & Sons
 HOOPESTON—Werner, E. B.
 JACKSONVILLE—Brennan, J. F.
 Hubsch, F. W.
 JOLIET—Busch & Handwerk
 Meers, Robert
 KANKAKEE—Reuter, Henry
 LA GRANGE—Mattingly & Gustin
 LA SALLE—Boyle, T. & Bro.
 Camenish Bros.
 LEBANON—Sager, C. H. Hardware Co.
 LINCOLN—Bouillon, W. E.
 Denner, J. E. & Sons
 MATTOON—Berthold & Hanson
 Mattoon Slate & Cornice Co.
 Weber, O. B.
 MENDOTA—Hoffman & Witigan
 Edwards Hdw. Co.
 MOLINE—Reid Co., The
 Sammel, Wm. B., 1322 4th av
 Willis & Sons Co.
 MONTICELLO—Harris, H. P.
 MORRIS—Cronin Bros.
 MURPHYSBORO—Stoezle, Jno.
 OLNEY—Jolly, J. B. & J. F.
 ONARGA—Amernan, M. T.
 OTTAWA—Walter, Jno.
 PANA—Lohr & Paul
 PEORIA—Aylward, R. C., 916 N Adams
 Bushnell, A. A. & Son, 1319 S Washington
 Hunter & Strehlow, 114 S Adams
 Johnson, Chas. Hdw. Co., 2023 S Adams
 Kavanaugh, Pat'k H., 227 S Madison av
 Kellersstrass & Hierspiel, 1926 S Adams
 Meyer, F. & Bro. Co., 1313 S Adams
 Peoria Roofing Co., 211 Maple
 Tammen, Jno. S., 3105 N. Adams
 Wilson, R. L. & Co., 3017 S. Adams
 PLANO—Sears, A. H. & Co.
 Stahle, Henry
 QUINCY—Berghofer & Ohnemus
 Comstock-Castle Stove Co.
 Wurst, C. H. Co.
 ROCKFORD—Drake Hdw. Co.
 Martin, A. & Co.
 McGuire Bros.
 Rockford Cornice Works, 312 Market
 ROCK ISLAND—Allen, Meyers & Co.
 Bertelson, John, 523 22d
 Foster, Wm. & Sons Co. (Cornices, Sky-
 Slemon, W. H., 1416 3d av lights)
 RUSHVILLE—Hartman, Geo.
 SPRINGFIELD—Armstrong, John D.
 Atkinson, E.
 Henson, Robinson Co.
 Lauterbach, Peter
 Neuman, J. C.
 STERLING—Taylor, F. R. & Co.
 Truger, F. A.
 STREATOR—Alband, John.
 Howe, L. D.
 McCoy, Otis H.
 Powers & Williams
 SYCAMORE—Forward, W. M. Co.
 Ohlmacher & Root
 URBANA—Green, Jesso D.
 WAUKEGAN—Melody, W. A.
 Watrous, G. B. & Son

INDIANA.

ANDERSON—Ehman, Em
 COLUMBUS—Brooks Bros.
 CONNERSVILLE—Cain, Hy.
 CRAWFORDSVILLE—Watson, Jas. H. (Est. of)
 ELKHART—Borneman & Sons
 Garvin & Co.
 ELWOOD—Elwood Iron Works
 Havens & Haskett
 EVANSVILLE—Attinger, Wm. F.
 Groeninger, J. J. & Co., 400 L. 2d
 Lohse, H. Co., 7 2d av
 Mesker, Geo. L. & Co., 100 L 1st
 Schminke, H. & Co.
 Wiechel, Louis & Co.
 FORT WAYNE—Gerding & Aumann Bros., 115
 Gunkel & Son, 38 Swinney av Wallace
 Miller, U. U.
 GOSHEN—Manrow, Nathan
 GREENFIELD—Banks, A. J. & Son
 HUNTINGTON—Bridge & Weese
 Hewitt, E. G.
 Lew, J. C.
 INDIANAPOLIS—Abel & Doyle, 229 Indiana
 Ensey, Orvis B., cor 15th & Illinois av
 Gardner, Joseph, 37 Kentucky av
 Hawkins, Rollyn Co., 326 E. Market
 Hornbrook-Price Co., 24 W Henry
 Humphreys & Sargent, 124 E. Court
 INDIANAPOLIS STEEL ROOFING
 & Corrugating Co. (See adv. index, end of
 McWorkman, W., State Life bldg book)
 Off, Christian & Co., 5 N New Jersey
 LAFAYETTE—Co-Operative Tin Shop
 Howe & Shipley
 Mertz-Neuman Co.
 Schimelpfenig, C.
 Westfall, Moore Co.
 LAPORTE—Decker Bros.
 LAWRENCEBURG—Stubber, F. & Son
 LEBANON—Bratton, J. B.
 LOGANSPOUT—Cline Bros.
 Eberlein, C. Augustus, 518 B'way
 Flancin, Jno. F., 310 Market
 Trah, H. J.
 MADISON—Adams, John
 Eckert, John.
 Hoffman & Quinn
 MARION—Beshore, Chas.
 Hegarty, M. F.
 Hollinger, M. G. & Co.
 Swanger & McClain
 Whisler Hardware Co.
 MICHIGAN CITY—Bartholomew & Co.
 Otis, Charles
 Staiger Hdw. Co.
 MISHAWAKA—Distler, John C.
 Harris Bros.
 Lang, O. E. & Co.
 Swanger, John, Jr.
 MONROEVILLE—Nill, Th. A.
 MONTEZUMA—Sharp, A. L.
 MOUNT VERNON—Schenck, E. B. Hdw. Co.
 MUNCIE—Ballard, W. H.
 Cook & Miller
 Doyle, Thos. F.
 Wells, A. T.
 NEW CASTLE—Carpenter & Henley
 Shriner, James C.
 Webster, D.
 NORTH MANCHESTER—Lockwood, J. B.
 PERU—Brennan, J. W.
 RICHMOND—Ireton, H. E.
 Johanning, C. H.
 Johnsoin, Thos. H.
 Ruch, John
 Schultz & Laning
 Zeller, Joseph S.
 RUSHVILLE—Beale, John S.
 SALEM—Hobbs, S. B.
 SEYMOUR—Cordes Hdw. Co.
 SHELBYVILLE—Brown & Boehming
 Howard, L.
 Pearson, J. C. & S.
 SOUTH BEND—Duncker, Henry
 Lauber & Weiss
 Meyer, G. B. & Son
 TERRE HAUTE—Freitag, Weinhardt & Co.
 Moore, J. T., 725 Wabash av
 Smith, C. C. Sons Co., 303 Wabash av
 Terre Haute Stove & Furnace Co., 658 Wa-
 VALPARAISO—Findling, H. M. hash av
 Patrick, J. H. & Son
 Wiley, W. H.
 VINCENNES—Dubois Bros.
 Lanby, C. W.
 Vincennes Galvanized Works
 WARSAW—Herrin, Jerry
 Neff, J. H. & Co.
 WASHINGTON—Carnahan, M. J. Co.
 Gooldy, Walter
 Gross, Ferd H.
 Walter, E. C.

IOWA.

ALBIA—Barger, C. S.
 ALGONA—Robinson, J. W.
 ANAMOSA—Treston, D. C.
 AUDUBON—Hoover, G. W.
 Reinemund, Jno., Jr.
 BOONE—Noland, L. C.
 BURLINGTON—Forney, J. H.
 Haffner, Chas.
 Hillen, C. F.
 CEDAR RAPIDS—Cedar Rapids Cornice Works
 Grissel, J. P. Cornice Co.
 Wagner, C. De Witt
 CHARITON—Busselle Bros.
 Ensley, G. W.
 CLINTON—Armstrong, C. E. & Co.
 COUNCIL BLUFFS—Amy, W. S.
 Grahl, Petersen Co.
 Spencer, F. A. Furnace & Sheet Metal W'ks
 Swaine & Maurer
 CRESTON—Creston Cornice Works
 DAVENPORT—Beck, Hugo
 Reimers, P. A., 312 W 3d
 DES MOINES—Backman, J. A., 524 E Grand
 Barquist, 412 8th av
 Steel Roofing & Stamping Works, 506 Jeffer-
 son, S. D. M.
 DUBUQUE—Klauer & Kress
 Geisler, Joseph
 Lally, Jas.
 ELDORA—Stauffer, Chas. F.
 GRINNELL—Miles, G. L.
 HARTLEY—Messer, E. B. & Son
 Smith, S. A.
 HUMBOLDT—Ward, C. E.
 INDEPENDENCE—Plane, I. C.
 IOWA CITY—Maresh Bros.
 KEOKUK—Geiger, Ang.
 Selther & Cherry Co.
 LYONS—Parker, G. W.
 MUSCATINE—McQuesten & Sawyer Co.
 Thompson Bros.
 NEW HAMPTON—Garmen & Forkenhock
 Ure, E. J.
 OSKALOOSA—Hamilton & Hamilton
 Stewart, S. J.
 Wells, Watts & Stump
 OTTUMWA—Harper & McIntire Co.
 Haw & Simmons Co.
 McCarroll Bros.
 McCarroll Mfg. Co.
 SIOUX CITY—Eidt, Julius
 Hamlett & Son
 Larson, C. A.
 STATE CENTER—Schilling Bros.
 McMahon, J. L.
 STORM LAKE—Peterson, N. H.
 VINTON—Vinton Plumbing Co.
 WATERLOO—Taft, C. W.
 WOODBINE—Western Steel & Iron Co.
 Young & Sweet

KANSAS.

ATCHISON—Atchison Cornice Works
 Klostermeir Bros.
 Walcott, H. C.
 Weinmann, C. F.
 COFFEYVILLE—Keller, Geo.
 CONCORDIA—Blair & Evenly
 EMPORIA—Jones, Fred
 Knapp, O. H.
 IOLA—Root, W. H.
 JUNCTION CITY—Barker, E. E.
 Muenzenmayer, J. J. & W. F.
 LEAVENWORTH—Endres, J. A. & Son
 Hoffman, S. C.
 Zeits, G. F.
 NEWTON—Bachman, C. A.
 Bergh, Wm.
 Follett, G. R. & Co.
 OTTAWA—Elder, A. P.
 PARSONS—Fitzsimmons, J. A.
 Steele Hardware Co.
 PITTSBURG—Bagley, J. P.
 Beasley & Miller
 SALINA—Kastner, Chas.
 Kastner, Geo.
 TOPEKA—Baird, John M., 216 W 6th av
 Forbes, D. H., 616 Kansas av
 Nussbeck, John G., 306 Kansas av
 Van Dorp, L., 828 Kansas av
 Wolf Bros. & Cole, 114 E 6th av
 WICHITA—Wilkie, Geo. W.

KENTUCKY.

ASHLAND—Coburn, S.
 Phelps, Frank K.
 CARROLLTON—Salvers, C. D.
 CATLETTSBURG—Ely, Chas. W.
 COVINGTON—Glaser, Wm. A. Roofing & Cor-
 nice Co., 1902 Madison av
 Gottschalk, F. S., 72 Pike

When writing to firms
 whose names appear
 in this book please
 mention

HENDRICKS'
COMMERCIAL
REGISTER.

Hesselman, Herman C.
Hochscher, J. A., 169 Pike
Rasch, C. F. & Sons, 1113 Madison av
DAYTON—Poos, John
FRANKFORT—Miller, Geo. W.
LEXINGTON—Blitteman, D. & Son, 80 W Main
LOUISVILLE—Belknap Hardware & Mfg. Co.
Flnk, Philip & Sons, 315 1st
Heartick, E. G., 1308 Preston
Imperial Wire, Iron & Roofing Co., 221 W. Market
Kentucky Sash & Door Co., 6th Hill & A
Louisville Cornice & Roofing Co., 226 10th
Schneider, R. W., 619 E. Green
Schreck, J., 1406 Preston
Shaber, W. F., 741 E. Jeff
Smith, Geo. L., 513 1st
Todd, Donigan Iron Co., 817 W Main
Wulff, W. C., & Co., 601 E. Jefferson
LUDLOW—Wilson, Chas.
MAYSVILLE—Leonard & Lally
McClanahan & Shea
Rasp, H. W.
NEWPORT—Newport Cornice Co.
Rust, Lawrence & Son, 909 Monmouth
Wagenlaender, Fred & Co.
OWENSBORO—Guenther, W. A. & Sons
Southern Foundry Co.
PADUCAH—Davis, G. R. & Bro.
Maret, J. O.

LOUISIANA.

BATON ROUGE—Gessel, Wm. & Co.
MONROE—Moore, J. L.
NEW IBERIA—Ribbeck Mfg. Co.
NEW ORLEANS—American Sheet Metal Works
Gulf Galvanizing & Metal Works, 1229
Nelson, A. J. Mfg. Co. Carondelet
New Orleans Roofing & Metal Works (A. S. White), 926 Lafayette
Redmond, B. V., 340 Chartres
SHREVEPORT—Adams & Son
Bain, H. H.
Wortman, E.

MAINE.

AUBURN—Crosley & Curtis, 8 Court
AUGUSTA—Malcolm & Dyer, 159 Water
Taber, Carey & Reid, 269 Water
Ward, A. D., 195 Water
BANGOR—Clement & Brown Mfg. Co., 201 Exchange
Leighton Plumbing & Heating Co.
BATH—Barton, G. H., 211 Front
Rogers, C. W.
Watson, W. H.
Winslow, J. A. & Son
BELFAST—Mitchell & Trussell
Stickney, John B.
Wright & Hall
BIDDEFORD—Anthoine, Geo. A.
Ham & Anthoine
Lowell, John B.
BRUNSWICK—Ridley & Eaton
EASTPORT—Martin, E. S. & Sons
Spates, Wm. T.
ELLSWORTH—Aiken, F. B.
LEWISTON—Korneppe & Son, 56 Main
Stetson, Jos. H. Co.
MACHIAS—Crane Bros.
MECHANIC FALLS—Hawkes & Whitney
NEWPORT—Deering, R. A. & Son
NORWAY—Crooker, J. O.
Leavitt, W. C.
OLD ORCHARD—Robinson, Wm.
PORTLAND—Alexander, A. R., 22 Monument sq
Hollivan & Parker, 54 Cross
Hutchinson & Cain, 22 Commercial
McBrady, Jno. E. & Son, 229 Federal
Nash, F. & C. B. Co., 386 Fore
Nash, O. M. & D. W., 6 Exchange
Scott, Wm. H. Co., 33 Union
Wheeler, F. E., 645 Forest av.
ROCKLAND—Sleeper Bros.
SANFORD—Huff, Geo. W.
SKOWHEGAN—Steward Heating & Plumbing Co.
Wood, F. A.
WALDSBORO—Curtis, C. H.
Richards Bros.

MARYLAND.

BALTIMORE—Bartlett, Hayward & Co., 301
Betzel, Wm. F., 427 n N Charles
Clifton Cornice & Skylight Works, 429 N High
Flngles W. A., Rippel bldg 1533 Maryland
Hetzl, John G. & Son, 225 N Howard
Kohlhepp, Anthony, 404 N. Howard

Lenderking, P. H., Jr., Dillon & Patuxnet
Lupton's, David Sons Co., 216 Calvert
Maryland Pl. & Tin Co., 27 W Biddle
McDermott, Wm. T., 427 N High
Northwestern Cornice Works, 1500 Pa. av
Parsons, N. E. & Son, 910 3rd ave
Pruden, C. D., Co., Warner and Dock
Schnitz & Ellis, 1246 Jackson
Vaile & Young, 216 N Calvert
Vollenweider, J., 1506 Penna. av
Ward, Wilbur F., 20 W. Pratt
Wells & Newton Co., 502 E. Fayette
Wilhelm, J. Frank, 748 Penna. av
Zimmers, A. M., 1808 Frederick av
EASTON—Hartnett, W. J.
Shannahan & Wrightson
FREDERICK—Fox, L. M., 625 n Market
HAVRE DE GRACE—Murphy, J. T.
HAGERSTOWN—Danzon Metal Works
HYATTSVILLE—McDermott, G. W.
ROCKVILLE—Vielt, Henry
REISTERTOWN—Brown, J. V.
SALISBURY—Dorman & Smyth Hdw Co.
Gunby, L. W. Co.
Salisbury Hardware Co.

MASSACHUSETTS.

ASHLAND—Enslin, Franklin & Co.
ATTLEBORO—Flynn, Wm., 17 Bailey
Gifford, J. W. Co.
BOSTON—Ames & Ginty, 101 Tremont
Anderson, C. & Co., 41 Way
Back Bay Cornice & Roofing Co., 33 Dundee
BADGER, E. B. & SONS CO. (also
Copper), 63 Pitts. (See adv. index, end of book)
BERGER MFG. CO., 112 Bedford.
(See adv. index, end of book)
Boston Cornice & Skylight Co., 43 Bristol
Buchanan, Geo. J., 424 Atlantic av
Douglass, Geo., 266 Prospect
Edmonds, F. M. & Co., 683 Atlantic av.
Eagle Cornice & Skylight Works, 192 Charles
Fegney, John, 15 N Grove
Finkelstein, M., 37 Spring
Forrest Alfred W., 464 Harrison av
Globe Cornice & Skylight Works, 68 Pitts
Gnlesian, M. H. Co., 14 Waltham
Harrigan, J. & Son, 111 Liverpool
Hicks, S. D. & Son, 17 Bowker
Jeffers, Wm., 77 Joy
Kalman, Joseph, 152 Chelsea, E B
Lamont, J. G., 30 Beverly
Magulre, W. J., 46 Cornhill
Marley Bros., 131 State
Mayberger, Edw. F., 1 Willow Park
Meade Roofing & Cornice Co., 683 Atlantic
Mills & Moore, 35 Bradford av
New England Cornice Co., 115 Merrimac
Pempel, Fr., 1462 Columbus av
Pempel, Geo. C., 27 Eustis
Penn Metal Ceiling & Roofing Co., 559 Atlantic av

Raymond, J. B. Co., 48 India
Union Cornice Co., 7½ Appleton
Van Noorden E. Co., 944 Massachusetts av
Weiner, Sam., 33 Dundee
Williams & Poor, 29-33 Haverhill
Young, D., Co., 229 Milk
BRAintree—Bates, Frank A.
Bates, Jos. I.
BROCKTON—Carr, J. E. & Co.
CAMBRIDGE—Ames & Ginty
Brock Bros.
Douglass, Geo., 266 Prospect
CAMBRIDGEPORT—(See Cambridge)
CHICOPEE FALLS—Enright, P. J.
CLINTON—Bowman Hardware Store
Maitland, Robert & Son
O'Toole Bros.
FAIRHAVEN—Delano, C. F.
Forrest, E. W.
FALL RIVER—Fall River Sheet Metal & Cornice Works
Hughes, James T., 140 3d.
Morin, Joseph, 389 2d
Wilcox, D. T., Jr., 46 Granite
FITCHBURG—Jennison Plumbing Co.
Sullivan, John H.
GARDNER—Curtis, H. O. & Co.
HOLYOKE—Friedrich, E. H., 73 Sargeant
Kennedy & Sullivan Mfg. Co., 75 Main
Sullivan & Carmody, 173 High
HUDSON—Glines, Mrs. G. Fred.
HYDE PARK—Johnson, A. J.
Norfolk Cornice & Roofing Co., 411 Hyde Park av
LAWRENCE—Forbes, Wm. & Sons, 450 Essex
LEOMINSTER—Burrage, H. E. Co.
LOWELL—Costello, Thomas, 212 Central
Cushing, D. & Co., 398 Middlesex
Hanchett & Co., 320 Middlesex
Lowell Furnace Co.
Mack, W. A. & Co., 25 Shattuck

Stewart, J. W., 359 Bridge
Wilder, H. H. & Co., 29 Market
MALDEN—West, Alonzo A.
MANCHESTER—Beaton, D. T.
Carter, J. W.
MARLBORO—Hall, G. R. & Co., 371 Lincoln
Hill, W. H., 114 Main
MELROSE—Brock Bros.
METHUEN—Sanborn Furnace Co.
NEW BEDFORD—Congdon, Carpenter & Co.,
Knowles, Abram, 58 4th, Fall River
Wood, Brightman & Co.
PEABODY—Norton, Geo. R. & Co.
PITTSFIELD—Pittsfield Cornice Works
ROCKPORT—Smith, L. E.
Thurston & Hale, Dock Sq
SALEM—Eklund, Victor
Salem Heating & Metal Co.
SOUTHBRIDGE—Winter, G. C.
SOUTH HADLEY FALLS—Moriarty Bros.
SPRINGFIELD—Atwater, E. C. & Co., 21
Beebe, N. S., 17 Florida Taylor
Brunton, M. J. & Son, 104 Dwight
Estabrook, Geo. R., 146 State
Hamden Cornice Works, 26 Taylor
Hawes & Gray, 37 Dwight
Kirkham, J. Stuart, 140 State
Munsell, E. W. & Co., 597 Main
Pratt, A. J., 792 State
Pratt, H. J. & Co., 97 Dwight
Wilson, Robert, 341 Worthington
STOCKBRIDGE—Van Dusen, Jno. M.
STOUGHTON—Burrell, H. G.
Deacon, D.
TAUNTON—Munro Plumbing Co., Bay c Brit-
Newhall, G. S., 6 Main tania
Whitmarsh, I. F., 64 Weir
Wordell Plumbing Co., 46 Weir
WALPOLE—Spear, H. A., Jr.
WALTHAM—Carr, F. C., 563 Main
Codyer & Cavanaugh
WEBSTER—Bates, A. J. & Son
Rosebrooks & Cmmings
WORCESTER—Barnard, Geo. A., 74 Prescott
New England Steel Roofing Co., 274 Main

MICHIGAN.

ALLEGAN—Phillips Bros.
ALPENA—Campbell, W. H.
Eddy Bros.
ANN ARBOR—Barth, O. H.
Koch Bros., 507 S Ashley
BATTLE CREEK—Bock, Augustus F., 18 Madi-
McCallum, Wm. son, S
Peterson, J. G., 29 Washington av, N
Wattles & Strong
BAY CITY—Bay City Cornice Co., Water st
Walther, A. & Sons
Willson & Wanless
BENTON HARBOR—Colgrove, Wm. B.
Emerson, Alfred
CALUMET—Carlton Hardware Co.
CASSOPOLIS—Hayden, W. B. & Son
CHARLEVOIX—Charlevoix Hardware Co.
CHARLOTTE—Munger, J. W.
White, Ray E. & Co.
CHEBOYGAN—Cueny, J. E.
Post, J. J. & Co.
COLDWATER—Allen, D. C. & Co.
Chandler & Lee
Kerr Bros.
DETROIT—Berschbach & Herz, 599 Gratiot av
Bertling, Paul C., 344 Grand River av
Buhl Sons Co., The, 103 Woodbridge W
BURTON, W. J. CO., 164 W Larned
(See adv. index, end of book)
Candler, J. D. & Co., 177 High, E
City Cornice & Furnace Co., 802 Grand River av
Detroit Cornice & Slate Co., 145 St. Antoine
Eagle Cornice & Roofing Co., 959 Fort, W
Eberts Bros., 352 5th
Freeman, Delamater & Co., 8 Woodward av
Hines, H. C. & Co., 354 Humboldt av
House, Geo. W., Union Trust Bldg
Howie Roofing Co., 370 4th av
Hutton, Robt. & Co., 112 Fort, E
Johnson, John & Co., 431 Gratiot av
Lewis, Henry B., 45 Jos. Campau av
Orth, Adam J., 166 Hastings
Pudrith & Candler, 74 Brush
Sexauer, Ch., 343 Alfred
Sexaner, G. J., 218 Wilkins
Union Sheet Metal Works, 831 Riopelle
Volgt & Sexauer, 146 Sherman
Wrench, Chas. E., 200 Beaubien
Young Bros. Co., 313 Franklin
ESCANABA—Delta Hdw. Co.
Escanaba Hardware Co.
EVART—Smith, J. K.
FENNIVILLE—Van Buren, G. W.

FLINT—Foote, C. E.
Hubbard, George W. & Son
FREMONT—Hain, G. E. Co.
GRAND RAPIDS—De Long, A. H. & Co., 8 Huron

Grand Rapids Sheet Metal & Roofing
Hopson-Haftencamp Co., 25 Campau
Sokup, F. J., 121 S Front
Sproul & McGurrian, 37 S. Division
Weatherly & Pulte, 97 Pearl
HOLLAND—Van Landegend, G. A.
Van Landegend, Tyler
HOLLY—Nicholson Hdw. Co.
HOUGHTON—McDougall, Alex
Portage Lake Hdw. Co., Ltd.
HOWELL—Schroeder, F. P.
ISHPEMING—Eggan, F. J.
Jochim, J. W. Hardware Co. (Ltd.)
JACKSON—Barrett & Daly
Creque, Josiah
McGraw & Crone
McLean, Frank & Co.
Oleslager, John B.

KALAMAZOO—A. & D. Sheet Metal Works, 216 N Rose
Kalamazoo Cornice Works, 149 E Water
Kalamazoo Galvanizing Works
Lakey, A. L. Co., 226 N. Burdick
Middaugh, E. H., 206 E. Water
LANSING—Fleming, Jas.
Gregory, Geo. H. (North)
Lakey, A. L. Co.
Middaugh, E. H.
Mudford, Wm.

Person, S. B. & Son
LAPEER—Gray, Sidney T.
LUDINGTON—Brad, Frank
Goodsel, B. J. Hdw. Co
Huston, H. V.

MANISTEE—Lloyd & Smith
Manister Iron Works, The
Miller, Wm.

Rosenfeld, Otto
MARQUETTE—Clark, D. M.
Manhard, M. R. & Son
MEMONEE—Bertholdt, H. C.
Fensterm, F. G.

Northern Hardware & Supply Co.
MIDLAND—Reardon Bros. Merc. Co.
MUSKEGON—Herrendeen, H. H. & Co.
People's Hardware Co.
Towner Hardware Co.
NEGAUNEE—Lucas, H. N.
Neeley, Benjamin

NORTHVILLE—Carpenter & Huff
PETOSKEY—Brackett Hdw. Co.
PLYMOUTH—Connor Hdw. Co.
Mimmack, Robert

PONTIAC—Beattie & McCollum
PORT HURON—Dart, James A.
QUINCY—Cole & Barringer
Michael, C. U.

ROCHESTER—Tienken & Case
Wood, H. L. & Son
SAGINAW—Bartlett, A. F. & Co., 930 S Tilden
Eagle Cornice Works

Jacobi, Alex., 113 N Warren av
Leyerer, J. S. & Co.
Martin, B. & Son
Saginaw Sheet Metal Works

Taub, H. L., 1151 Genesee av
Valley Cornice & Slate Co.
SAULT SAINT MARIE—Soo Hdw. Co.
Soo Hdw. Co.

SHELBY—Rankin, A. J.
TECUMSEH—Satterthwaite Bros.
VASSAR—Dean, H. C.

YPSILANTI—Comstock Sash Lock & Novelty Co.
MINNESOTA.

DULUTH—Burrell & Harmon, 308 E Superior
Deetz & Co., 408 E. Superior
Duluth Corrugating & Roofing Co., 126 E Michigan

Ehnstrom, J. V., 2009 W. Superior
Helbing, L. R., 322 E Superior
Hollihan & Milostan, 207 W 1st
Landahl & Hollihan, 207 W 1st
Star Roofing & Cornice W., 209 Lake av

ELYSIAN—Elysian Hardware Co.
FERGUS FALLS—Adamson, Jno.
Bauer, Jos., 125 Bismarck av
LITTLE FALLS—Berg, J. W.

MINNEAPOLIS—Canton Art Metal Co.
Crittenden Roofing & Mfg. Co., 704 S. 5th
Gerber, J. J., 128 6th av S.
Haglin, C. F., 229 Lumber Exchange
Haglund & Kinnan, 14 Central av
Henning Mfg. Co., 310 Plymouth av
Minneapolis Roofing & Cornice Works, 403 6th av S

National Roofing & Cornice Co., 1412 S 7th
Nees, Louis & Co., 1207 S 3d

Northwestern Roofing & Cornice Works, 1113 S 5th
Selden Roofing & Manufacturing Co., 78 Western av
Stremel Bros. Roofing & Cornice Co., 1215 Wash'n av, N.

Townsend, A. W., 20 2d, S
NORTHFIELD—Northfield Furnace Co.
OWATONNA—Parrott & Smith

PIPESTONE—Frost, William
RED WING—Red Wing Iron Works
Swanson & Anderson, 312 Main

ST. CLOUD—Ladner, C. F.
Longley, Louis

Powell Hdw. Co.

ST. PAUL—Bergstrom, C. J., 603 E Minnehaha
Franz, H. A., 869 Randolph
Franz, L. & Son, 554 Lincoln av
Griffin & Boehme, 121 W University av
Haag-Laubach Roofing & Cornice Co., 30 W 3d

Lefebvre-Deslauriers Roofing & Cornice Co., 26 8th
Minnesota Roofing & Cornice Works, 135 Muggley & Tschida, 195 W. 3d 12th
St. Paul Roofing, Cornice & Ornamental Co., Water c Wabasha

Scribner-Libbey Co., 221 W 5th
Twin City Roofing & Cornice Co., 545 Wabasha

ST. PETER—Eveuson Bros.
Feldman, Chas.
Krohn, Alfred

SAUK CENTER—Hilberud, G. & Co.
WINONA—Giese, A. O.
Magnus & Wilkens, 119 E. 2d

MISSISSIPPI.

NATCHEZ—Mulvihill, P. W.
VICKSBURG—Bruser, W. H.
Waggeuer Plumbing Co.
YAZOO CITY—Cummings, M. F.
Jenne, George

MISSOURI.

BOONVILLE—Kuehner, L. C.
Vanatta & Bechtold
BUTLER—Bennett-Wheeler Mer. Co.
CAPE GIRARDEAU—Brunkhorst, A. F.
Vogel, W. H.
CARTHAGE—Carthage Cornice Works
COLUMBIA—Gribble, H. J.
DE SOTO—Berg, Fred.
Slawson & Kingston
HERMAN—Eberlin, Christ
HUNTSVILLE—Calhoun, V. B.
INDEPENDENCE—Hill & Martin
JOPLIN—Eagle Cornice Works
Kitching, Wm.

KANSAS CITY—Braun, A. & Co., 1219 Wabash
Geis & Regenbrecht, 2344 Bellview
Kansas City Cornice Works, 1733 Harrison
Kansas City Furnace Co., 618 Prospect
Kansas City Roofing & Corrugating Co., 220 Kellam & Rix, 1315 E 15th W 3d
Martz & Roebber, 1313 Main
Ritzler, J. A. Cornice & Ornament Co.

Sick, W. F., 2719 E 15th
Stopplet, Frank C., 12 E Missouri av
Vance, R. W. Sheet Metal Wks, 1520 Vanstone, Walter, 1710 Walnut Walnut
Weis, Henry Cornice Co., 1815 Wyandotte
Werner & Stolte, 1933 Grand av
Wiedemann, W. C., 1710 McGee
Zahner Mfg. Co.

LEBANON—Koby, Victor
LEXINGTON—King & Marrs
Schawe & Weis
Yungling, C. E.

MOBERLY—Kaunsteiner, A.
Stauffer, P. & Co.

NEOSHO—Briggs Hdw. Co.

NEVADA—Missouri Sheet Metal Wks.

ST. JOSEPH—Langan, Peter, 305 S 4th
Seaman & Schuske, 1604 Fredk av

St. Joseph Cornice Works, 742 S 6th
Wehrman, Wm., 119 N 2d

Whelan, Alex., 1001 S. 10th

ST. LOUIS—Auer & Kublin, 3507 N 22d
Bannantine Galv. Iron Mfg. Co., 113 Soulard

Bannon, J. F. & Co., Lafayette av & Grattan

BERGER MFG. CO., 623 N Main.
(See adv. index, end of book)

Berwanger, Louis, 2503 S Jefferson av

Blohm, Chas. H., 1120 Emmet

Buelmann, E. & Son, 2306 N 15th

Caplan Galvanized Iron Cornice Co., 4412 Easton av

Clemens, John & Co., 1922 S 7th

Cozzens Heating & Cons. Co., 3839 Finney

Dockerie, J. J., 3514 Easton av

Dolton, Geo. E., 24 S Commercial
Eagle Metal Works, 1512 Clark av
Eberle, J. & Son, 4014 Laclede av
Excelsior Cornice Co., 6916 S Bway
Fleck & Stark, 901 Victor
Gerock Bros. Mfg. Co., 1252 Old Manchester
Giessow Cornice Works, 3741 Cass av rd
Hammond, C. S. & Co., 109 Chestnut
Harry, Owen K., 2333 Papin
Heimbürger, Fr. J., 5140 San Francisco av
Herman Cornice Co., 4618 Delmar boul
Hiller, Charles, 4577 Easton av
Hopmann Cornice Co., 2571 Benton
Huber, P. & Son, 2520 Newhouse av
Kaul, Frank, 3022 Oregon av
Klittich, Ernst L., 3458 Chippewa
Knox, Thos. & Co., 4608 Easton av
Kohlmeier, G. F., 8222 N Bway
Larkin, M. P., 1922 Washn av
Lullman, J. C., 419 Chem. Bldg.
Mesker & Bro., 421 S 6th
Mungenast, Jos. & Bro., 3215 Meramec
Murphy, E. & Co., 3727 Easton av
Newport Cornice & Furnace Co., 3120 St. Vincent av
Ogden, J. B., 1100 Ohio av
Powers & Boyd Cornice & Roofing Co., 3614 Laclede av

Rowland Sheet Iron & Cornice Works, 3713 Cass av

Ruth, Jno. F. Cornice Works, 4298 Page

Schumann Bros., 1522 S. 7th Boul

Sidler, B. & Co., 1823 N Taylor av

Skinner Bros., 1013 N B'way

Skinner, D. B. & Bro., 1948 N 9th

South St. Louis Cornice Works Co., 3932 Iowa av

St. Louis Blow Pipe & Cornice Wks. Co., 3932 Iowa av

St. Louis Cornice Co., 1112 Cass av

Sydown, Herman, 6333 S B'way

Tiernan, Luke, 1019 Chestnut

Von der Au & Cluss Mfg. Co., 2408 S Jefferson av

West End Cornice Works, 4722 Delmar boul

Zacharias, Wm., 1204 Park av

Zitko, Chas., 17 N Ewing av

SPRINGFIELD—Anslinger, K. D. Sheet Metal Works, 212 E Walnut

MONTANA.

ANACONDA—Copper City Commercial Co.
BOZEMAN—McCay, H. B.
McCay, H. B.
BUTTE—Dorffner, F. J., 9 S Montana
GREAT FALLS—Great Falls Iron Works
Murphy-MacLay Hardware Co.
HELENA—Adams Heating & Plumbing Co., Power blk
McKinnon, H. A.
Rummel, Jacob, 141 N Jackson

KALISPELL—McIntosh Hardware Co.

NEBRASKA.

BEATRICE—Habig, Chas. A.
Spieler, Jos.

FREMONT—Globe Cornice Works
Smith, F. M. & Son

HASTINGS—Hutchinson, J. E.

HOOVER—Heine Bros.

KEARNEY—Kearney H'ware Co.

LINCOLN—Gaiser Bros.

NORTH PLATTE—Filliou, Jos. T.
Kempton, S. N.

OMAHA—Bjornson & Haas, 214 N 15th

Carter, R. L., 1724 St. Mary's av

Cox, Thomas W.

Epeneter, G. F., 614 S 10th

Kastl, J. F.

Knecht, A.

Olson Bros, 2570 Leavenworth

PLATTSMOUTH—Kroeler Bros.

SCHUYLER—Pence, J. V.

YORK—Hyder, J. V.

NEVADA.

GOLDFIELD—Shillington, J. E. & Son
RENO—Ainsley, John & Son
Nevada Plumbing & Sheet Metal Works

NEW HAMPSHIRE.

BERLIN—Berlin Mills Co.
CONCORD—Bailey & Merriman, 8 Main.
KEENE—Davis-Wright Co.
MANCHESTER—Lawson, H. J., 26 Auburn
Pike & Heald Co., 972 Elm
O'Brien, M., 123 Amherst
NASHUA—Barre Hdw. Co.
PORTSMOUTH—Paul, W. E.
Sweetser, J. P.
Wells, A. M.

NEW JERSEY.

ASBURY PARK—Day, Edw., Main & Munroe
Rugarber, Charles
ATLANTIC CITY—Atlantic City Cornice Works
Currie Hdw. Co.
Horan, Mich. J.
BAYONNE—Devaney, Jno. J., 297 Av D
Gilbertson, J.
BERNARDSVILLE—Bromfield, W. R.
Griffith, C. H.
BOONTON—Kopps, Jno. I. Sons
BOUND BROOK—Williams, Thos. F.
Zepp, W.
CAMDEN—Camden Sheet Metal Works
Childrey, T. D. & Son, 7th & Kaighn av
Cole, Chas. A., Delaware av & York
Klostermaun Bros. Co., 1016 B'way
McManus, Mitchell, 505 N 5th
Metallie Mfg. Co., 232 Spruce
Messing, Geo.
ENGLEWOOD—Beck, Wm.
Dubols, Chas. L.
Hickey & Baker
ELIZABETH—Elizabeth Cornice Works
Faulks, Jas. H. Co.
Hoffman, L. A. & Son
GERMAN VALLEY—Stephen, F.D. Co.
HARRISON—Goodby, W. H. & Bro.
HIGHTSTOWN—Taylor, Jas. A.
HOBOKEN—Dorsett, T. W., 1113 Clinton
Hoboken Cornice & Skylight Wks.
Leonard Sheet Metal Works (Inc.), 219 Grand
JERSEY CITY—Donovan, D. F., 390 7th
Henningsen, Henry, 15 Garrison av
National Sheet Metal Roofing Co., 339 New-
ark av
New York Iron Roofing & Corrugating Co.
Ringle, Jacob & Son (also Copper, etc.), 83
Schreck & Walty, 27 Hague Newark av
West Side Cornice & Skylight Wks., 795
West Side av

LONG BRANCH—Warwick, W. R.
MATAWAN—Fountain, W. A.
NEWARK—Allwood, J. R. & Son, 39 Marshall
Baier & Conrad, 336 Hunterdon
Bleeker, Jos., 64 Shipman
Cunningham, M. J., South n Jefferson
Demars, Wm., 57 Mechanic
Ding & Feuscher, 476, 18th av
Engelberger, F. & W. V. Co., 159 Jelliff av
Essex Cornice & Skylight Wks., 127 Van
Hammond, Theo. C., 13 Ferry Buren
Howarth Bros. Co., 62 N. J. R. R.
Newark Cornice & Skylight Works, 9 17th av
Schwing & Co., 190 Ferry
Smith, Frank F., 53 Sherman av
Steinberg, Jacob, 22 Belmont av
PASSAIC—Falstrom & Tornquist Co.
PATERSON—Lendrim, H. C. Co., 84 Clay
McNeil, Lawrence W., 427 Grand
Quinn Bros.
Rogers, Andrew J. Co., 90 Bway
PRINCETON—Margerum, H. W.
Mulvey & Fox
Stryker, A. Y.
RARITAN—Wyckoff, J. C.
RED BANK—Patterson, J. C.
RUTHERFORD—Tallman, S. C.
SALEM—Righter, J. C.
TRENTON—East Trenton Cornice Works
Trenton Arch'l Cornice Wks., 101 S Warren
Trenton Excelsior Cornice Works
WEST HOBOKEN—Gutschmidt, W. H., 810
Hammersen, Wm. John
Sutter, Louis
WEST NEW YORK—Hermann, C. F.
WOODBURY—Kleinhanz, Jno. V.
Muller Bros.

NEW MEXICO.

ALBUQUERQUE—McClaskey, W. A., 315 W
GALLUP—Howard & Son, J. J. Railroad
RATON—Murphy, T. F.

NEW YORK.

ALBANY—Ackroyd, Jas. & Sons, 12 James
Fitzgerald, Jno. L., 22 Beaver
Gorman, Jas. J., 14 Norton
Hoffman, J. H. B., 38 Green
Macnee & Rahe, 659 B'way
Walsh's, Jas D. Sons, 40 Sheridan
ALFRED—Cottrell Bros.
AMSTERDAM—Dwyer, Cornelius
Dwyer, Ed.
AUBURN—Anburn Iron Co.
Hungerford, J. A.
BALLSTON SPA—Tracy Bros.
BINGHAMTON—Freeman, E. G., 81 Water
McIntyre & Hull, 77 State
Lynch, Jno. R. & Son, 86 State
Young, J. J., 233 Chenango

BROOKLYN—(See New York City, Borough of
BUFFALO—Buffalo Forge Co. Brooklyn
Buffalo Galvanizlug & Tinning Works, 51
Buffalo Repair W'ks, 448 Niagara Jackson
Christmann, Philip & Sons, Orange & Vir-
ginia
Eberz, Peter, 285 Dearborn
Elsinghorst, A. F., 138 B'way
Gruber, Rupert & Co., 541 Sherman
Hartmetz, George, 652 Eim
Lindsay, Wilson, 167 E Ferry
Lipp & Nauth, 334 Genesee
Machwirth Bros. Co. (also Copper, etc.),
Menge Fred A., 480 Genesee 201 Oak
Peters, G. H. Co., 293 Oak
Rademacher Bros., 345 Fox
Reiber, Martin, 255 Stanton
Roty, A. & Son, 835 Main
Shepard, Sidney & Co., 60 Tecumseh

CANASTOTA—Bemiss & Co.
CATSKILL—Day & Holt Co.
CATTARAUGUS—Eberlee, T. J.
Jewell, J. H. & Sons
COHOES—Loop, Wm. H., 44 Van Rensselaer
CORTLAND—Buck & Lane
Cramer & Spencer
CUBA—Gee, C. A.
Olive, J. G. & Son
Sisson & Smalley
DOBBS FERRY—Ackerman, J. M.
Brown, Chas.
Seiss, A. C.
ELMIRA—Barker, Rose & Clinton, 109 Lake
Gridlay, G. A. & Son, 126 W Water
Young, Chas. W., 114 Lake
FORT PLAIN—Linney, W. T.
Stewart & Bergen
FULTON—Johnston, Geo.
Snow, A. J.

GLENS FALLS—Adams, G. E. & Co.
HUDSON—Macy, Frank A.
ISLIP—Lennon, Jas.
JAMAICA—(See New York City, Borough of
JAMESTOWN—Noveity Heating Co. Queens)
KEESVILLE—Calianan Bros.
KINGSTON—Wieber, Henry E.
LESTERSHIRE—Becker, C. D.
Lestershire Tinware Co., 14 Endicott av
LONG ISLAND CITY—(See New York City,
Borough of Queens)
LYONS—Hartman & Hartman
Marshall & Noble
Matthes & Son
Zimmerlin Bros.

MARLBORO—Hughes, T. H.
MECHANICSVILLE—Allen & Sheffer
MOHAWK—Richardson, J. G.
MORAVIA—Smail & Wood
MOUNT KISCO—Gorham, G. W.
MOUNT VERNON—Norden, J., 48 Mt. Vernon
Ryan, J. H.
NEWBURGH—Atlas Roofing Co.
Newburgh Cornice Works
NEW ROCHELLE—Helmrlch, Geo.

NEW YORK CITY.**Borough of Brooklyn.**

BROOKLYN—Beer, M. F., 1624 B'way
Blecher Bros., 49 Nostrand av
Bioch, Marcus, 79 Met av
Buell, Chas. S. Co., 98 4th
Buchanan's, A., 1587 Fuiton
Buchwald, Ralph, 93 T'kins av
Burger & Gohlke, 232 7th
Clifford, Neil, 296 Court
Cohen, Hy., 395 R'kway av
Davis, Jno., 20 Wyckoff
Edelstein, Henry, 496 Gates av
Flanagan, Thos. P., 676 72d
Foos, Chas. & Son, 64 Stag
Gartenberg, Morris, 426 6th av
Gogarty, M. J., 1531 Fuiton
Gorlitz, S., 64 Reld av
Greenthaler, Cbrls., 860 De Kaib av
Hoellerer, Geo., 908 Bergen
Kuhnla, August, 10 Lorimer
Kuhnla, Ernest & Sons, 71 Hinsdale
Muller, E. A. & Bro., 687 4th av
Ostergren, K. M., 765 DeKalb av
Ostergren, Samuel & Sons, 725 3d av
Otto, J. M., 46 Maujer
Peterson, Stephen W., 694 Manhattan av
Ray, Daisley & Co., 61 Fulton
Schar, Paul, 2273 Church av
Schnabel Casper, 1470 Myrtle av
Schnitzpan, H. V., 800 Wythe av
Seton, John, 78 Washington av
Sutphin, Jas. G., 668 Manhattan av
Tolman, Chas., 8 Noll
Waldhauer, Fredk., 270 E 31st
Weiss, Adolph, 963 Myrtle av
Weltz, Otto & Co., 14 Lexington av
White, Jas. Co., 448 Adelphi

Boroughs of Manhattan & Bronx

NEW YORK—Abbott's, M. Sons, 137 8th av
Alexander & Weiss, 435 E Houston
Architectural Cornice & Skylight Works,
Baron, Louis, 446 W 41st 325 W 38th
Becker, J. C. L., 174 E 87th
Beer & Hess, 223 W 35th
Blechner, Albert, 725 Bergen av
BERGER MFG. CO., 210 E 23d.
(See adv. index, end of book)

Berglund, Chas. & Son, 774 3d av
Blayer, Chr., 20 Bradhurst av
Bois Sheet Metal Works, 50 Vestry
Boiz, Jacob, 726 11th av
Borkel, Jno., 42 E Houston
Bornstein Bros., 227 6th
Brandt, Fred., 217 E 80th
Brandt, Wm. H., 715 E. 136th
Breivogel, Geo., 46 Rose
Cary, R. F., 124 E 129th
Central Roofing, Cornice & Skylight Works,
334 E 59th

Coleman & Krause, 515 W 29th
Cunnion, Jas. & Son, 112 Fulton
Curry, Joseph, 374 W B'way
Davis, Edwin E., 2124 B'way
Davis, G. G., 545 E 148th
Dietze, Oscar, 242 E 80th
Dreyer, Gustaf, 511 Grand
Dunn, L. J., 164 E 120th
EDWARDS MFG. CO., 359 W 26th.
(See adv. index, end of book)

Ehrlich, Wm., 287 Av C
Empire Cornice Works, 396 Broome
Empire Sheet Metal Works, 488 Cherry
Engel, A. I., 1199 3d
Feld, Sam. M., 1194 Home
Flanagan, Anna, 396 4th av
Freyberg, Otto, 2308 2d av
Furlong & Furlong, 461 E 135th
Garfein, Aaron, 546 E 150th
Giegerich, Jno., 424 E 59th
Goldman, Bernhardt, 520 W 40th
Goldstein, Jos., 323 Pearl
Greenky & Garfein, 408 E 76th
Gregory, Jas., 125 W 40th
Hannan, Jno. W., 4187 Park av
Harlem Cornice & Roofing Co., 1960 Park av
Harrison, M. & Son, 214 E 52d
Harrison, T. & Son, 16 Franklin
Helmrich, Jno., 1294 Intervale av
Hilts, Wm. H., 77 W 3d
Hinz, Albert, 403 E 16th
Horner, Jos., 505 5th
Kantzier, Chas., 618 E 154th
Keane, W. A. & Co., 432 W 37th
Kramer, M., 596 3d av
Krauth, Carl, 128 G'wich av
Landesberg, Samuel H., 435 E Houston
Lless, E., 2324 Bathgate av
Lode, August, 742 11th av
Loeble, August H., 6 Sullivan
Lupton's, David Sons Co., 220 B'way
Manhattan Cornice & Skylight Works, 406
E 25th

Manhattan Tin Roofing Co., 170 E 112th
Marshall & Co., 281 E B'way
May, Wm. M., 798 11th av
Mayer, Conrad, 40 Bond
Meade Roofing & Cornice Co., 156 5th av
Milliers, John Sons, 438 W 54th
Miliis, Jno. J., 251 Mulberry
Moritz, I., 1192 2d av
Morrow, John, 225 W 50th
Muhsoid, Bernhard, 49 E 99th
Muller, R. & O., 626 E 150th
Murphy, Geo. M., 43 New Chambers
National Cornice & Skylight Works, 227 6th
Neil, John, 436 W 17th
New York Cornice Works, 335 E 32d
New York Sheet Metal Works, 515 W 29th
Nicholson & Galioway, 646 Hudson
North Side Cornice & Roofing Co., 976
Oppe, Rudolph, 335 E 32d Rogers pl
Pasewark, C. H. & Co., 347 E 105th
Perske, Frank, 439 E 92d
Peters, Wm. C., Carter av, c E 176th
Pfeller Bros., 473 Greenwich
Rice, Barth J., 578 W 130th
Rosenberg, Adolph, 512 E 17th
Samet & Schoenberger, 153 Lewis
Saron, David, 2164 Madison av
Saron, Jacob, 2363 3d av
Schwoerer, A. & Sons, 530 E 80th
Sheperd Sheet Metal Co., 133d & Park av
Smith & Dorsett, 405 E 47th
Sommerfeld & Riesner, 325 W 38th
Star Cornice, Skylight & Roofing Wks.,
569 3d av
Storch, J. A. & Co., 517 E 73d
Stucke, Chas., 444 W 38th
Tyier, Frank J., 218 8th av
United Cornice & Skylight Works, 153 Lewis

Vincent, Wm. E. D., 133 E 118th
Vogt, Geo. J., 312 E 60th
Walther, Max, 796 E 142d
Weiss, Morris L., 613 E 16th
Werner, Chas., Fillmore, Van Nest
Westergren, M. F. (Inc.), 435 E 144th
Wilson, M. S. A., 408 E 77th
Wilson Bros., 221 E 59th
Winter, Jacob Co., 712 Lexington av

Borough of Queens.

LONG ISLAND CITY—Brodie, Wm., 31 Vernon
Petry, John W., 63 Vernon av
METROPOLITAN—Grasbe, Wm. G.

(END OF NEW YORK CITY)

NEW YORK MILLS—Hastings, M. B.
NIAGARA FALLS—Mackwirth Bros. Co.
OLEAN—Pierce, O. W.
ONEIDA—Lype, Norman
OSWEGO—Oswego Hdw. Co., W 1st
PENN YAN—Hollowell & Wise
PORT JEFFERSON—Davis & Co.
POUGHKEEPSIE—Aldrich, Elbert, 301 Mill
RAVENA—Strevell, A. M.
RED HOOK—Curtis & Van De Bogart (also
Copper)

ROCHESTER—Brown & Martin, 476 N Goodman
Calder, Robert, 86 Exchange
Fricker, John, 10 Ely
Knowles, John W., 50 Franklin
Ratt & Smith, 40 Stone
Rochester Roofing & Heating Co.
Roessel & Schoenemann, 382 St. Paul
Siddons, John Co., 61 N Water

RONDOUT—(See Kingston)

ROUSES POINT—Chilton, Geo. & Co.

SCHENECTADY—Allen, Jno.

MacGregor, Thos. F.

SCHUYLERVILLE—McRae, G. S. & Co.

SHELTER ISLAND—Harris, O. S.

SYRACUSE—Blant, Jos. A., 227 James

Bradford & Deruchle, 439 E Water

Cashman & McCarthy, 372 W Fayette

Curran, Jas., 213 N Franklin

Donovan & McCarthy, 412 So West

Gooley, W. F., 1911 W Fayette

TONAWANDA—Koenig, H. B. & Co.

TROY—Loeble, Wm., 422 River

Manogue, Edw'd Co., ft of Grand

O'Connor, John, 328 2d

Sasse, Robt. W., 842 River

UTICA—Metal Roofing & Cornice Co., 71 Main

WARWICK—Montross, A. W.

Ogden & Pelton

WATERTOWN—Arthur, H. S., 46 Court

Howard, Thomas

McCrady & Rogers, 42 State

Spratt & Corcoran, 48 Court

WATKINS—Durland, L. H. Son & Co.

WELLSVILLE—Hoyt Hdw. Co.

Lauterborn & Johnson

Vincent, C. F.

WHITE PLAINS—Donnelly, J. H.

Fowler & Sellars

YONKERS—McVicar, Thos., 30 Dock

McVicar, Wm. H., 83 Woodworth av

Scholding Bros., 167 Nepperhan av

NORTH CAROLINA.

ASHEVILLE—Boyce, W. A.

McPherson, Jos. C.

CHARLOTTE—McCausland, J. N. & Co.

McCausland, J. N. & Co.

Ray, G. G. & Co.

Shuman, C. F.

GREENSBORO—Johnson Mfg. Co.

Yates, J. F.

Yates & Carter

WINSTON SALEM—Brickenstein, L. B.

NORTH DAKOTA.

FARGO—Enterprise Metal Works

Fargo Cornice & Ornament Co.

GRAND FORKS—Grand Forks Roofing, Cornice
& Ornamental Co.

WAHPETON—Jamieson, W. W.

Schultz, Otto H.

OHIO.

AKRON—Akers & Harpham

Akron Hardware & Spouting Co.

Akron Roofing Co.

Kasch Roofing Co.

May & Fieberger

Neff Bros.

Pouchot, Hunsicker & Co.

ALLIANCE—Love & Casselman

RELIEF—Wageland, A., 336 Fairfield av

CADIZ—Bryan, H. E.

CAMBRIDGE—Cambridge Roofing Co.

Hartley, W. H. & Sons

CANTON—BERGER MFG. CO. (See

adv. index, end of book)

Canton Cornice & Skylight Co., 414 E 7th

Canton Mfg. Co., The (Cornice & Skylight)

Canton Steel Roofing Co., 1221 E Tuscarawa

ELLER MFG. CO. (See adv. index,

end of book)

Kanneberg Roofing & Ceiling Co.

CINCINNATI—Andler, Adam, 3023 Highland

av, Mt. A.

Beckman & Co., 953 Garfield av

Beckman, Wm., 1543 Race

Blum, Albert, 2810 Woodburn av

Boesch, Victor P. & Son, 2432 Eastern av

Brandis Bros., 3109 Reading rd

Brockmann & Schuessler, 330 W 3d

Brophy, John L., 25 W Canal

Dearking, Fred W., 3822 Glenway av

Dirr George L., 3631 Warsaw av

Eagle Galvanized Iron Cornice Works, 215

W. 3d

EDWARDS MFG. CO., Eggleston

av, bet 4th & 5th. (See adv. index, end of

book)

Emmers Cornice Co., 1007 B'way

Fahle & Dietrich, 537 Oliver

Fisher, Philip, 1066 Central av

Frank, Andrew, 900 State av

Freund, J. Roofing Co., Mitchell av & B.

& O. S. W. Ry.

Goering, Wm., 77 E McMicken av

Goodling, Michael, 1824 Race

Greiwe, E. & Bro., 1128 B'way

Gruening, Louis, Court & Freeman av

Hauck, Michael, 14 B 13th

Hirt Bros., 1814 Race

Jansen, John F., 2140 Gilbert av

Kobmann, Chas., 1919 Central av

Kopelent, Henry, 2723 Vine

Neabrey, J. H., 637 W Court

Porter Iron Roofing & Corrugating Co., 27

W Front

Queen City Exch. & Blow Pipe Co., 1732

Central av

Robinson, J. M. Mfg. Co.

Rothert, Wm., 1603 Main

Scheg, Amanda, 2311 W 8th

Scott & Co., 224 E Front

Shaw & Stechow, 811 Central av

Spatz, Wm. C., c Powers & Tozzer

Stevens, Albert, 1125 B 3d

Sweeney, J. A. & Co., 829 W 5th

Swift & Drees Cornice Co., 435 Reading rd

Verges, Ferd. F., 2543 Vine

Vois, S. W., 204 15th

Weigel, John Cornice Works, 664 E Mc-

Millan

Weissenberger, Geo. K., 4006 Spg Grove av

Witt Cornice Co., 8th & B'way

Witt & Brown, 215 W 3d

Zoller, Fred, 1732 Central av

CLEVELAND—Callaghan, J. & Son, 1119 Su-

perior, N E

Cleveland Galvanizing Works Co., 3924

Cooper, N E

Cleveland Metal Roofing & Ceiling Co., 393

Detroit

Garry Iron & Steel Co., Coe & Lake

Hundertmark, Wm. L. Sheet Metal Works,

11 McLean

Hussey, Philip B., 2247 St. Clair

Kain & Tack, Fountain c Bright

Mannen & Esterly Co., 2247 St. Clair

Ohio Roofing Co., 729 Prospect, S E

Ortl, Chas. F., 116 Barber av

Riester & Thesmacher Co., 325 Pearl

Rudolph & Son Co., 35 Michigan

Schorndorfer Hardware Co., 7601 Woodland

av

Silherman, Albert, 1033 St. Clair, E

Standard Galvanizing & Mfg. Co., 65 Cham-

plain

Towson, E. H., 1057 1st av

Uhl, Wm., 1559 Willson av

COLUMBUS—Blackwood, Green & Co., 624 N

High

Calkins, W. R. & Sons, 752 E Long

Ewers, Thomas, Spring & Dennison av

Ihrig, F. B. & Co., 541 N High

KINNEAR & GAGER CO. (See adv.

index, end of book)

Knell, Philip, 344 S 4th

Schoedinger, F. O., 146 W 3d

COVINGTON—Glaser, The Wm. Cornice Works,

1902 Madison av

Snyder, The W. G. Co., 11 Pike

DAYTON—Baker, John, 631 W Washington

Bretch, A., 125 E 5th

Buckeye Cornice Co., 609 W Washington

Buvinger, G. W. & E. E., 327 E 3d

Couch & Nicholls, 1528 W 3d

Dayton Cornice Works, n w c 6th av & Clay

Foley, Jesse T., Norwood av & Horace

Hoersting & Holtmann, 1124 W 3d

Jungclas Cornice & Furnace Works, 707 E

Kenney, J. R., 251 S Wayne av 5th

Rieck, H. F., 508 S Wayne av

Sullivan, G. E., 1925 E 5th

Walker, Edw. W., 540 N Keowee

Wuichet, Chas. & Co., 14 S Canal

EAST LIVERPOOL—Watson, A. A.

ELYRIA—Elyria Hdw. Co.

Fitch & Horning

FINDLAY—Fiscus, W. J.

Hoffman & Bryan

Klein, Fred

FOREST—Dickelman Mfg. Co.

FOSTORIA—Baker, W. E.

Ballmer, D. R.

Newson & Poe

Stewart Hdw. Co.

GALION—Sponhauer, H. C.

Zimmerman & Elise

GLENDAL—Dollman, J. W.

Schatzman, P. & Son

GREENVILLE—Beedle, C. & Son

Humphreys, R. T.

HAMILTON—Bauer, R.

Becker, Jno. L.

Henn & Bufler

Schlosser, Jacob & Son

Zschau, A. E.

IRONTON—Filgrove Bros. & Co.

KENT—Reed, C. R.

Schultz, Henry

LIMA—Smith, Wm. A., 212 S Main

MANSFIELD—Crouse & Son, 21 N Park

Donaldson, G. W., 20 S Main

Flohr, G. A., 34 E 3d

Harris, Geo. S. & Son

Hoffman, Chas.

Martin, C. E. & Bro.

Runyan, C. C.

MARIETTA—Theis, H. P.

MARION—Saiter, F. R.

MARYSVILLE—Church Bros. & Weld

Scott, O. M. & Bro.

MEDINA—Oatman Bros.

MIAMISBURG—Schell & Pansing

MIAMISBURG—Schell Bros.

MIDDLETOWN—Fouts, C. O.

MILLERSBURG—Fitch, John

Shoup, C. C.

NEWARK—Tucker & Son

NEWPORT—Globe Iron Roofing & Corrugating

Co., Sec. 9th & Lowell

NILES—American Sheet & Tin Plate Co.

Cramer Bros., 108 S Main

Unger, F. C. & Co., 11 N Main

PIQUA—Lee, Geo. E.

PORTSMOUTH—Glockner, Frank A.

Wilhelm, J. D.

SALEM—Mullins, W. H. Co. (also Copper)

SANDUSKY—Mertz, J. & Sons

SHELBY—Armstrong, Rauch & Trimble

Standard Mfg. Co.

SIDNEY—Rheinicke, Geo.

SPRINGFIELD—Hauck, Chas. F. & Co., 35 W.

Hauck, Chas. F. & Co., 35 W Main

Lafferty, Sam'l J., & Sons, 55 E. Main

Peet & Schuster Co., 118 S Center

TOLEDO—Bally, Albert C., 1112 Adams

Cheney & Co., 19th St. Clair

Curran & Firth, 620 Monroe

Frech, Jacob F., 559 N Erie

Gerken, J. D. & Co., 1311 Washington

Gors, Herman W., 1844 B'way

OREGON.

ALBANY—Albany Hardware Co.
BAKER CITY—Bascbe-Sage Hardware Co.
GRANTS PASS—Carlson, A. E.
Coron, E.
Cramer Bros.
Hair-Riddle Hardware Co.
McMINNVILLE—Hodson, O. O.
PORTLAND—Bayer, J. C., 265 2d
Moore-Meagher Co., 209 Wash
Tilton Bros., 105 5th
Wynkoop, Lyman, W., 248 Ash
SALEM—Barr, T. M.
Fraser, A. L.

PENNSYLVANIA.

ALLEGHENY—Allegheny Cornice & Skylight
Irwin, Thos. W., 411 Rebecca Co.
SCHOLES BROS., 1241 Rebecca.
(See adv. index, end of book)
ALLENTOWN—Allentown Cornice Works
Best, J. A. & Co.
Hersh & Bro., 829 Hamilton
Mager, Ralph & Wm., 125 S 6th
Miller, Jacob, 535 Linden
Neff, Wm. F.
ALTOONA—England, L. B.
Garrahan, P. F. S. & Son
Hughes, J. C. & Son, 906 8th av
Johnson, A. A., 1218 8th av
Klesius, G., 609 12th
Wilkinson, Lee A.
AMBLER—Reed, H. W. B.
ARDMORE—Whelan, Martin.
ASHLAND—Lauer, J. J.
McConnell & Bro.
BEAVER FALLS—Davidson, W. J.
BELLEFONTE—Twitmore, W. T.
BETHLEHEM—Lehigh Valley Cornice Works
BRADDOCK—Loew, John A. & Co.
Shlrer, John W.
BRADFORD—Dean & Love
BUTLER—Campbell, J. G. & W.
Hauck, Jos. R.
CARNEGIE—Itome, George & Co.
CHESTER—Armitage, Geo. L.
Doran, Jno. A.
Goodman, K. & Son
Ward, Hugh H.
CLEARFIELD—Johnson, F. & Bro.
Powell, J. Frank
Powell, W. F.
CONNELLSVILLE—Munson Bros.
CORY—Barlow Hdw. Co.
Guignon, L. E. & E. E.
Miller & Stuart
DUQUESNE—Thomas, G. E.
EASTON—Arndt, Wm.
Fackenthal, Frank
Kinsey, Howard P.
Miller, E. H.
Stotz Bros.
EAST STROUDSBURG—Lessig, J.
ERIE—Braggins, John H., 1128 Sassafras
Miller, John, 617 W 18th
Murphy Bros., 22 N Park
Patterson & Stirling, 12th & French
GIRARDVILLE—Griffith, R.
GREENSBURG—Overly, W. F.
HALLSTEAD—Rogers, Jos. B.
HANOVER—Bargelt, Louis
HARRISBURG—Fager & Maeyer, 108 Market
Zollinger, G. J., 308 Blackberry av
HAZLETON—Barber, Robert B.
Koehler, Fred.
HOMESTEAD—Snyder, Louis B.
HONESDALE—Erk Bros.
Watts, G.
INDIANA—Alter, C. A.
Hamilton, George T.
Taylor, Alex. T. & Son
JOINSTOWN—Doyle, Frank
Penn, Wm. J.
Friedhoff & McHaffey
Joy, F. A. & Sons
KINGSTON—Johnson, H. F. & Sons
LANCASTER—Arnold, John L.
Penn Cornice & Roofing Co., 40 E King
Pohl, John E.
Sheet Metal & Supply Co.
LANSDALE—Jenkins, Grant & Co.
LOCK HAVEN—Plickincher, Fred
McKEESPORT—Kemp, Jas. F. & Bro.
Miller & Matthews
MAHANAY CITY—Morgan, William
MECHANICSBURG—Hauck Bros.
Wonderly, F.
NANTICOKE—Hill & Evans
NICHOLSON—Driggs & McConnell

OIL CITY—Booker Sheet Metal Wks.
PEN ARGYL—Correll, R. S.
PHILADELPHIA—Abronski Bros., 1615 Stiles
American Metal Cornice Works, 1124 On-
Berger Mfg. Co., 1034 Wash'n av
Bohem, A. & G., 1438 Federal
Central Cornice Works, 3420 Market
Crossland, Wm. H., 5528 N. 5th
Edele, Geo. A., 835 E Ontario
Gara, McGinley & Co., 23 S. 17th
Germantown Cornice Works, 162 E Chelton
Graber, Francis, 2306 N 3d
Harris & Harris, 50 N 23d
Lupton's, David Sons Co., Allegheny av &
Tulip
Meade Roofing & Cornice Co. (Skylights),
46th & Woodland av
Merritt & Co., 1024 Ridge av
Northwestern Cornice Works, 2639 Hagert
Penn Metal Ceiling & Roofing Co., 23d &
Hamilton
Philadelphia Metal Cornice Works, 1847 N
Preston Cornice Co., 4219 Market 6th
Rhoads & Maloney, 429 N 3d
Rising Sun Cornice Works, N 8th, cor
R Sun la
South Philadelphia Cornice Works, 924
Moyam'g av
THORN, J. S. CO. (Also Copper).
20th & Allegheny av. (See adv. index, end
of book)
Wayne Junction Metal Cornice Works, 4545
Wayne, Gln.

PHILLIPSBURG—Bortel, Geo. E.
PHOENIXVILLE—Caswell & Moore
PITTSBURG—East End Cornice & Roofing Co.,
Berlin & Frankstown av
Pittsburg Cornice & Roofing Co.
Pittsburg Sheet Metal Mfg. Co., 331 1st av.
Rasner & Dinger Co., 100 2d av
Wielland Sheet Metal Co., 625 Second av
PITTSBURG—Byrne, Jno. W.
McHale, John
PLYMOUTH—Dymond, E. P.
Spry, F. E. & Son
POTTSVILLE—Herbrick & Co.
Hoefel, Frederick
READING—Hafer, J. D., 1046 N 8th
Hain, Wm. T., 824 Court
Yeager, Wm. B., 8th & Chestnut
RIDGWAY—Bowen, S. E.
Cody, C. L.
Smith Bros. Co. (Ltd.)
SCOTTSVILLE—Dick, J. I.
SCRANTON—Derby, W. H.
Gunster & Forsyth
Maloney, Jas. P. & Co., 805 Capouse av
SHAMOKIN—Unger, Warren
SHARON—Hoffman, P.
Hoffman, J. C. & Bro.
SOUTH BETHLEHEM—McBride, Michl. J.
TITUSVILLE—Hughes, C. V.
Hughes, D. D. & Son
UNION CITY—Hatch Hardware Co.
WASHINGTON—Hays, G. W. & Co.
WEST BETHLEHEM—Schall, Herbert F.
Schlosser, J. F.
WEST CHESTER—Apple Plumbing & Heating
James Bros.
Palmer, George J.
WILKES-BARRE—Allen & Fell
Becker, P. & Son
William, C. M.
WILKINSBURG—Brittner, E. M., South av &
YORK—Kidd, Alex., 137 N George P. R. R.

RHODE ISLAND.

CENTRAL FALLS—Plews, R. Mfg. Co.
NEWPORT—Covell, W. K.
PAWTUCKET—Carpenter, E. P., 50 N Main
Reetz, Robert C.
PROVIDENCE—Baacke, Wm. & Co., 38 Hay
Brunckow, C. G., 223 Globe
Burgess, James, 254 Prairie av
CLASON ARCHITECTURAL MET-
al Works (and Copper), 428 Kinsley av
(See adv. index, end of book)
Enterprise Cornice & Skylight Works, 27
Harris, Clayton, 281 Canal. Bassett
Hills, James Mfg. Co., 56 Westfield
Hitz, Chas., 9 Calla
King Roofing Co., 38 Hay
Lamoureux, F. & Co., 39 Friendship
Lundgren, John C., 288 Dyer
Providence Arch'l Metal Works, 237 Dyer
Providence Cornice Co., 311 Canal
Providence Sheet Metal Co., 1129 West-
minister
R. I. Cornice Co., 76 Point
Shapiro, Nathan, 8 Steeple
Strauss Co., 280 Eddy
Woolf & Galkin Co., 24 College
WOONSOCKET—French, O. P. & Son

SOUTH CAROLINA.

AIKEN—Hyer, W. C.
Smith, W. H.
ANDERSON—Archer & Acker
CHARLESTON—Arnot, A. M.
Charleston Galvanized Iron Cornice & Steel
Masters, R. M., 127 King Ceiling Works
Shepherd Supply Co., 232 Meeting
COLUMBIA—Columbia Plumbing & Cornice Co.
Dozier, L. B., & Co.
Lorick, Lee A. & Bro.
GREENVILLE—Barr Hdw. Co.
Cook, J. A.
ROCK HILL—Westerlund, J. W.
SPARTANBURG—Pickens, R. O., 94 Morgan
UNION—Murrah, T. A.

SOUTH DAKOTA.

RAPID CITY—Sweeney, Tom Hardware Co.
SIOUX FALLS—Stallman, John
YANKTON—Yankton Sheet Metal Works

TENNESSEE.

BRISTOL—Conner, Leslie & Collins
Sweet, T. E. A.
CHATTANOOGA—Chattanooga Roofing & Foun-
dry Co., 720 E. Mont'gy av
Chattanooga Sheet Metal Co.
Goodlake, C. W., 813 Broad
Lockhart Bros.
Mountain City Stove & Mfg. Co., 623 Market
McMahon, James
Snow, T. A. Co., 710 Market
Snow, Tom, Tin & Roofing Co.
FAYETTEVILLE—Blakemore, J. A.
Robertson & Goodrich
HARRIMAN—Edington Bros.
Salyers, T. D. (Agt.)
JACKSON—Anderson, G. C. & Co.
KNOXVILLE—Cruze, J.
Mundy & Greydig
Williams, G. R.
MEMPHIS—Burdick, A. W. & Co., 22 Hernando
Chickasaw Iron Works
Cubbins, F. D., 405 2d
Dush & Schaefer, 107 Poplar
Eichberg & Meyer, 63 Jefferson
Fritz, Edw. H., 152 Front
Nohsey & Schwab, 355 2d
Verdel, E. F. & Co., 386 2d
Wessendorf, Charles, 196 Main
NASHVILLE—Cammerer, H. & Son, 227 N Mar-
ket
Kadel, L. J.
Murray, E. T. & Co., 167 N College
Phillips & Buttorff Mfg. Co., 217 N College
Zimmer, A.

TEXAS.

AUSTIN—Brush, Geo. A., 900 Congress av
Buaas, J. O., 818 Congress av
BROWNWOOD—Weakley & Watson
CORSICANA—Johnson & Wood
Tatum, W. M. & Co.
DALLAS—Burke, W. D., 128 N Akard
Hinckley, D. G., 604 S Howard
Huey & Philip, 257 Elm
King, T. F.
Payne, F. T., 652 Elm
DENISON—Campbell & Co.
Waltz, Chris.
EL PASO—Momsen, Gus & Co.
ENNIS—Blakey, J. & Co.
Cralg, E. E. & Co.
FORT WORTH—Atwell Cornice Co.
Merritt, A. L.
GAINESVILLE—Bosley, L. W.
Calkins, D.
GALVESTON—Breene, Martin
Fedder, Albert, 2703 Market
Fredericks, W. G., 2309 A
Hoffman, W. A., 2311 Post Office
Miller, W. H., 2627 O4
Werner, Geo. P., 1628 Winnie
HILLSBORO—Smith & Tomlinson Co.
HOUSTON—Behee, S. F., 1711 Providence
Bennett, M. D., 1212 Hardy
Berger, Albert, 1606 Congress av.
Brown, Chas. J., 1310 Milam
Eisemann & Beck, 303 Caroline
Hlmstedt, W. F., 1208 1-2 Congress
Holtkamp's Tin & Sheet Metal Works, 620
Mackrell, Jas. L., 1814 Terry Travis
Murray, Albert A., Jr., cor. Willow &
Necco & Eisemann, 703 Franklin Baker
Puls, Henry, Jr., 1401 Wash'n
Schlom, M. J., 505 Preston av.
MARSHALL—Logan & Whaley

PARIS—Allen, M. F. Hdw. Co.
 SAN ANTONIO—Jewett Cornice & Roofing Co.
 San Antonio Sheet Metal Wks.
 Vodrie & Co.
 Walsh, T. P.
 SHERMAN—Roberts, Sanford & Taylor Co.
 Walsh Hdw. Co.
 TERRELL—Muckleroy & Dew
 TYLER—Daglish Merc. & Mfg. Co.
 VICTORIA—Mackrell, W. H.
 WACO—Strauss, Ed.

UTAH.

EPHRAIM—Jensen, F. Y.
 OGDEN—Crosbie & Smith
 Newman, W. E.
 PROVO CITY—Blumenthal, H. G.
 SALT LAKE CITY—Fowler, J. P.
 Mitchell, H., 71 S Slate
 Salt Lake Hardware Co., 42 W 2d, S

VERMONT.

BENNINGTON—Vail, F. E., 91 Main
 BURLINGTON—Hathorn, A. C.
 LYNDONVILLE—Eaton, J. C. & Co.
 MONTPELIER—Davis, E. E.
 POULTNEY—Horton, M. J. & Son
 RANDOLPH—Lamson, J. H.

VIRGINIA.

CHARLOTTESVILLE—Kelly, J. C. & Son
 Thomas, R. L.
 DANVILLE—Hodnett, Voss & Watson Co.
 Piedmont Hdw. Co.
 HAMILTON—Myers, Nathan
 HAMPTON—Copeland, J. F.
 Williamson & Bridgeforth
 HARRISONBURG—Saum, Jno. R.
 Saum, M. L.
 LEXINGTON—Beckwith, A. B.
 LYNCHBURG—Dornin, T. B. Co.
 Dinguid, M. M. & Co.
 Doherty & Casey
 MANASSAS—Davis, A. P.
 NEWPORT NEWS—Richter, G. M. & Son
 NORFOLK—Battley, Geo. W., 341 Church
 Bohn Roofing & Cornice Co., 11 Plume
 Harwell-Walker Co., 94 Brewer
 Howard, J. T., 50 Washington
 Thomas, T. W. & Co., 519 Crawford
 RICHMOND—Burton, Reuben, 819 E Cary
 Hackett, R. & Co., 1009 Basin
 Mills, Morgan R., 809 e Franklin
 Southern Plumbing & Electric Co., 619 e
 STAUNTON—Garher, A. M.
 Tanner, Charles & Co.
 SUFFOLK—Farley, W. J.
 Lilliston, T. M.
 WARRENTON—Houchens, T. M. & Bro.

WASHINGTON.

ABERDEEN—Gray's Harbor Sheet Metal Works
 COLFAX—Kuhn Hardware Co.
 ELLENSBURG—Lawrence, A.
 HOQUIAM—Fesenfeld, W.
 NORTH YAKIMA—Groves & Anderson
 Sawbridge, Jno.
 YAKIMA Hardware Co.
 OLYMPIA—Binhelmer, W. W.
 Jones, M. W.
 Olympia Hardware Co.
 SEATTLE—Alexander Cornice Works, 404 Columbia
 City Cornice Works, 1514 6th av
 Clark, T. F. Co., Commercial Dock
 Dale Plumbing, Heating & Cornice Co., 112
 Finlay & Rohb. 88 Lenora
 Noon, T. A., 1807 7th av.
 Poppo & Knowles, 1023 Post
 Puget Sound Sheet Metal Works, 1318
 Western av.
 Seattle Cornice Works, 1022 1st av S
 SPOKANE—Abernethy, Robert, 615 3d av
 Brandt Bros., 207 Division
 Brown Bros., 2d & Washington
 Brown, Wm., 164 Post
 National Mastic Roofing Co.
 Schrimpf, Chas. G., 25 Monroe
 Woodward & Stein
 Young, E. H., 826 2d av

TACOMA—Cizek, A. F., 1325 South C
 Miller, Edw. Cornice & Roofing Co., 1114
 VANCOUVER—Meyer, J. C. Commerce
 WATERVILLE—Carpenter & Malthie

WEST VIRGINIA.

BERKLEY SPRINGS—Amrose, C. P. & Bro.
 BLUEFIELD—Hefner, O. V.
 Whitlow, M. J.
 BUCKHANNON—Buckhannon Hardware Co.
 CHARLESTON—Brawley, D. A.
 Charleston Hardware Co.
 Goshorn & Co.
 Loewenstein & Sons
 Shawver, W. F. & Co.
 Wolf, John C., 519 Kanawha
 CHARLESTOWN—Easterday & Co.
 FAIRMONT—Amos, G. E. & Co.
 Morris, J. S. & Son
 HUNTINGTON—Hagan, J. B. & Co.
 Wilcoxson, C. F.
 MANNINGTON—Mannington Roofing Co.
 MARTINSBURG—Cushwa, C. G. & Bro.
 Fisher, J. W. R.
 Snyder, Wm. S.
 MORGANTOWN—Bailey, W. H. Hardware Co.
 Barhe & Davis
 Morgantown Hardware Co.
 Morgantown Tin Plate Co.
 PARKERSBURG—Boshury Bros.
 WHEELING—Arkle, J. M., 3617 Jacob
 Bayha, D. H., 1918 Main
 Caldaugh, G. W. & Bro., 4031 Jacob
 Ohio Valley Roofing Co., 928 Market

WISCONSIN.

APPLETON—Schlafer Hdw. Co.
 Tesch, Wm.
 ASHLAND—Ashland Hdw. Co.
 French, R. W. & Son
 Garnish, Emil & Sons
 BARABOO—Gaskell, F. N.
 Lee & English
 Pratt, A. H.
 BELOIT—Murdock-Dunwiddie Co.
 Watson & Andree
 EAU CLAIRE—Eau Claire Cornice & Htg. Co.
 Hohbs, W. H.
 EVANSVILLE—Baker Manufacturing Co.
 FOND DU LAC—Cheney, S. H.
 GREEN BAY—Danz, H.
 Green Bay Cornice & Corrugating Co.
 Harris, Theo. E.
 HARTFORD—Esser & Schmidt
 Kissel, L. & Sons
 HUDSON—Foss-Armstrong Hardware Co.
 JANESVILLE—Janesville Cornice Works
 Lowell Hardware Co.
 Sheldon, A. H. & Co.
 Truesdill, E. A.
 KAUKAUNA—Butler Bros.
 Haas & Hohmann
 KENOSHA—Dewey, C. A.
 English, Jno. J.
 Fay, Geo. W.
 Jansen, T. E.
 Reber, Homer & Co.
 Schulz, H. C.
 Skidd, Chas.
 LA CROSSE—Badger Steel Roofing & Corrugat-
 ing Co., 728 N. 3d
 Burrough, Herbert, 9th & Green Bay
 Dittman, Fred, 129 S. 4th
 Gateway City Steel Tank & Roofing Co., 9th
 & Green Bay
 La Crosse Steel Roofing & Corrugating Co.,
 3d & Jay
 Smitt, Julius, 717 Rose
 MADISON—Trachte Bros.
 Wolf & Kuhley
 MANITOWOC—Rathsack, Wm. & Sons
 Teitgen, Emil
 MARINETTE—Junco, Phillip, 804 Main
 Simcox, H. B. & Co.
 Westlund, August
 MENOMONIE—Globe Iron Works Co.
 MILWAUKEE—Biersach & Niedermeyer Co.,
 216 5th
 Bogenberger & Goessel, 70 Mason
 Bogenberger, F. & Bro., 267 7th
 Braun & Millen, 395 Reed
 Consolidated Sheet Metal Works, 660 Huh-
 bard
 Cordts & Ehmke, 771 Teutonia av
 Cox, Jos. L., 138 6th
 Feix & Goethel, 818 Winnebago
 Green, D. D., 215 Sixth
 Hoffmann & Baur, 279 Lake
 Kluhertanz & Strommeyer, 2325 Fon du Lac
 Merz, J. & Co., 828 Winnebago
 MILWAUKEE CORRUGATING CO.
 (Also Copper). (See adv. index, end of
 book)
 Moeller, Herman, 617 E Water

Roeder, Chas., 1527 7th
 Romberger, Joseph, 2115 Cherry
 Schaetzke, H. E. & Co., 785 7th
 Schmitt, F. & Sons Co., 301 4th
 Tonnsen, E. B., 51 3d
 Toepfer, W. & Son, 76 Menominee
 Wisconsin Sheet Metal Works, 345 33d av
 MINERAL POINT—Penhallegon, John J.
 MONROE—Kundert, C. Hardware Co.
 NEENAH—Krueger, Wm. & Co.
 Stroehel & Baumgarten
 OSHKOSH—Krippene Hardware Co.
 Leach, Frank Hardware Co.
 Tank & Tieman
 Terwedo & Warning
 PORTAGE—Schulze Hardware Co.
 RACINE—Dixon, John & Co.
 REEDSBURG—Siefert Bros.
 RICHLAND—CENTER—Lamberson, Ward
 Strang, G. H.
 SHEBOYGAN—Geele, F. Hardware Co.
 Miller, H. H.
 SUPERIOR—Arnold & Schimmel
 Bingham Hdw. Co.
 Carlson Bros.
 Holmes, E. A. & Bro. Co.
 WATERTOWN—Kusel, D. & F. Co.
 Pritzlaff, W. G. & Co.
 Weber, Wm.
 WASHBURN—Ungrodt, B.

WYOMING.

BUFFALO—Astell, Geo. T.
 Munkros & Mather

Corrugated Arches

(See Awnings, Corrugated Iron & Steel.)

Corrugated Elbows

(See also Stove Pipe & Elbow Mfrs.)

Corrugated Elbow Co., 114 E Liberty, Cincin-
 nati, Ohio
 EDWARDS MFG. CO., Eggleston av,
 bet. 4th & 5th, Cincinnati, O. (See adv.
 index & branch offices, end of book)
 Lamb & Ritchie, Cambridgeport, Mass.
 MILWAUKEE CORRUGATING CO.,
 Milwaukee, Wis. (See adv. index, end of
 book)
 New England Steel Roofing Co., Worcester,
 Mass.

Corrugated Iron & Steel

(See Iron & Steel, Corrugated Mfrs.)

Corundum Mfrs.

(See Emery & Corundum Mfrs.)

Cots (Army, Etc.)

Sun Mfg. Co. (Brown Duck Steel Frame),
 Columbus, O.

Cotters (Cellar Box)

Jenckes, E. Mfg. Co., Pawtucket, R. I.
 Smith, F. P. & Co., Sharon Hill, Pa.

Cotters (Spring)

Brooks, M. S. & Sons (Brass or Steel Cotters &
 Flat Spring or Riveted Keys), Chester, Conn.
 Cincinnati Screw & Tap Co., Cincinnati, O.
 Climax Tag Co. (Brass & Steel), Dayton, O.
 Cobb & Drew (Steel only), Plymouth, Mass., &
 Rock Falls, Ill.
 Hindley Mfg. Co. ("Columbla," Steel, Brass &
 Copper Cotters & Flat Steel Spring & Flat
 Riveted Keys), Valley Falls, R. I.
 Hollinger Fence Co. (Steel), Greenville, O.
 Jenckes, E. Mfg. Co. (Iron & Brass Cotters &
 Flat Spring Keys), Pawtucket, R. I.
 National Screw & Tack Co. (Iron & Brass),
 Cleveland, O.
 Pickering, R. S. (Brass & Steel Cotters & Steel
 Flat Spring & Riveted Keys), Sharon Hill,
 Pa.
 Smith, F. P. & Co. (Steel, Brass & Copper Cot-
 ters & Flat Spring & Flat Riveted Keys),
 Sharon Hill, Pa.
 WHITMAN & BARNES MFG. CO.
 (Brass, Steel & Copper), Chicago, Ill., &
 Akron, Ohio (See adv. index & branch
 offices, end of book)
 Wire Goods Co. (Iron & Brass), Worcester,
 Mass.

When writing to firms listed
 in this book please mention
HENDRICKS'
COMMERCIAL REGISTER

Cotton (Calking & Gun)

Estes Mills (Inc.), Fall River, Mass.

Cotton Compresses

Blerce, Wm. W. (Ltd.) ("Blerce 20th Century" Hydraulic), Hennen bldg., New Orleans, La.

Dickson Car Wheel Co., Houston, Tex.
Planters' Compress Co., 131 State, Boston, Mass., & 17 State, New York
Pusey & Jones Co., Wilmington, Del.
Reading Iron Co., Reading, Pa.
Vulcan Works, Chester, Pa.
Webb Press Co., Minden, La.

Cotton Duck & Canvas

Ashland Mfg. Co., 16 Light, Baltimore, Md.
Baker, Carver & Morrell, 75 Front, New York
Boston Duck Co., Bondsville, Mass.
Boyle, John & Co., 112 Duane, New York
CARPENTER, GEO. B. & CO., 202 S.
Water, Chicago, Ill. (See adv. index, end of book)

Consolidated Cotton Duck Co. (Duck for Belting, Hose, Sails, etc.; also Awning Stripes & Canvas for Wagon Covers, Tarpaulins, etc.), Continental Trust bldg, Baltimore, Md.
Dallas Cotton Mills, Dallas, Tex.

De Grauw, Aymar & Co., 34 South, New York
Dickey, W. J. & Sons, 16 Light, Baltimore, Md.
Mills, Oella, Md.

Falls Co. (Ticks, Awnings, Ducks, etc.), Norwich, Conn.

Fitchburg Duck Mills. (Belting & Hose Duck), Fitchburg, Mass., & 78 Chauncey, Boston, Mass.

Gary, J. S. & Sons (Awning Strips, etc.), Alberton, Md.

Hoffman-Corr Mfg. Co., 55 White, New York
Hogansville Mfg. Co., Hogansville, Ga.

Lane, J. H. & Co., 110 Worth, New York
Lawrence Duck Co., Lawrence, Mass.

Lowell Weaving Co. (Fine Sall Cloth Ducks), Lowell, Mass.

Moorhead Cotton Mills (Inc.), Moorhead, Miss.
Pemberton Co. (Awning Ticks), Lowell, Mass.

Princeton Mfg. Co., Athens, Ga.
Savage Mfg. Co., Savage, Md.

Sherman Cotton Mill, Sherman, Tex.
Shetucket Co., Norwich, Conn.

Thorndike Co. (Awning Stripes, etc.), Thorndike, Mass.

Turner, J. Spencer, Co. (Rep. U. S. Cotton Duck Corp.), 86 Worth, New York

Upson-Watson Co. (Wholesale), Cleveland, O.
Warren Mfg. Co., Warren, Md.

Wellington, Sears & Co. (Ducks for Belting, Hose, Sails, Harvesters, etc.; also Awning Stripes, Canvas for Wagon Tops, etc., & Bunting), 202 Devonshire, Boston, Mass., & 66 Worth, New York

Williams Duck Mills, Moodus, Conn.

Cotton Gins

(See Cotton Ginning Machinery.)

Cotton Softeners

(See Textile Machinery, Supplies, etc.)

Cotton Ties

(See Ties, Cotton.)

Cotton & Wool Waste

(See Waste, Cotton & Wool)

Coulters (Rolling, for Plows)

Galesburg Coulter Disc Co., Galesburg, Ill.

*Counter Supports

BETHLEHEM FOUNDRY & MACHINE CO. (Cast Iron, etc.), Front, South Bethlehem, Pa., & 149 B'way, New York
(See adv. index, end of book)

Counterbores

American Die & Tool Co., Reading, Pa.
Clough, R. M. (for Round Head Cap Screws, etc.), Tolland, Conn.

MORSE TWIST DRILL & MACHINE CO. (Solid, Adjustable & Interchangeable Blades & Guides), New Bedford, Mass. (See adv. index, end of book)

National Twist Drill & Tool Co. ("National," Solid), Detroit, Mich.
Reading Machine & Tool Co. (Adjustable & Facing Bars), Reading, Pa.
Waltham Watch Tool Co., Springfield, Mass.

Counters (Revolution)

(See Indicators, Speed.)

Countershafts

Almond, T. R. Mfg. Co. ("Almond" Right Angle Quarter Turn), 83 Washington, Brooklyn, N. Y.

American Tool Works Co., 6th & Eggleston av, Cincinnati, O.

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)

Baird Machine Co., Oakville, Conn.
Bardons & Oliver (Double Friction), 1133 W 9th, Cleveland, O.

Bates Machine Co., Joliet, Ill.
Brown & Sharpe Mfg. Co., Providence, R. I.

Buffalo Forge Co., Buffalo, N. Y., & 39 Cortlandt, New York

Builders' Iron Foundry, Providence, R. I.
Challenge Machine Co., 5036 Hazel av, Phila., Pa.

Clizbe Bros. Mfg. Co., Plymouth, Ind.
Cresson, Geo. V., Co., Allegheny av W. of 17th, Phila., Pa., & 141 Liberty, New York

Diamond Machine Co., Providence, R. I.
DODGE MFG. CO., Mishawaka, Ind.

(See adv. index & branch offices, end of book)
Frick Co., Waynesboro, Pa.

Fulton Machine Co. (Self-Oiling), Canal Fulton, Ohio

Garvin Machine Co., 137 Varick, N. Y.
Goodell-Pratt Co., Greenfield, Mass.

Hickok, W. O. Mfg. Co., Harrisburg, Pa.
Holmes, E. & B. Machinery Co. (Variable Speed, etc.), 59 Chicago, Buffalo, N. Y.

Ideal Machine Works ("Ideal," Operated by Gravity), 255 39th, Brooklyn, N. Y.

LANE MFG CO., Montpelier, Vt. (See adv. index, end of book)

Lodge & Shipley Machine Tool Co., 3055 Cole-rain av, Cincinnati, O.

MANNING, MAXWELL & MOORE, S5,
87 & 89 Liberty, New York. (See adv. index & branch offices, end of book)

Mossberg Wrench Co. ("Sim-Pull"), Central Falls, R. I.

Myers, F. E. & Bro., Ashland, O.
National Machine Tool Co., 208 Lawrence, Cincinnati, O.

Oesterlein Machine Co. (Friction Clutch), 2850 Spring Grove av, Cincinnati, O.

OWEN MACHINE TOOL CO., Springfield, O. (See adv. index, end of book)

Prybail, P. (Est. of), 512 W 41st, New York

Quint, A. D., Hartford, Conn.
Reeves Pulley Co., Columbus, Ind.

RUMSEY & CO. (Ltd.), Seneca Falls, N. Y. (See adv. index & branch offices, end of book)

Smith Countershaft Co. (Reversing for Machine Tools), Melrose, Mass.

Speed Changing Pulley Co. (Variable Speed), Indianapolis, Ind.

Sterling Emery Wheel Mfg. Co., Tiffin, O.
Sturtevant, B. F. Co. (For Fans), Hyde Park, Mass.

Waltham Watch Tool Co., Springfield, Mass.

WELLS BROS. CO. ("Little Giant"),
Greenfield, Mass. (See adv. index, end of book)

Wiley & Russell Mfg. Co., Greenfield, Mass.
Wilmarth & Morman Co. (Wilmarth Friction), Grand Rapids, Mich.

Countershafts (Variable Speed)

Holmes, E. & B. Machinery Co., Buffalo, N. Y.
OWEN MACHINE TOOL CO., Springfield, O. (See adv. index, end of book)

Speen Changing Pulley Co., Indianapolis, Ind.

Countersinks

American Die & Tool Co., Reading, Pa.
Billings & Spencer (Drop Forged), Hartford, Conn.

Braunsdorf-Mueller Co., Elizabeth, N. J.
Buck Bros. (Flat, Rose & Snail), Millbury, Buck, Chas., Millbury, Mass.

Butterfield & Co., Derby Line, Vt.
Cincinnati Tool Co. ("Hargrave's Adjustable"), Waverly av & C. L. & N. R'y, Cincinnati, O.

Cleveland Twist Drill Co., Cleveland, O.
Deuse, J. S., Chester, Conn.

Goodell-Pratt Co., Greenfield, Mass.
Humphreysville Mfg. Co., Seymour, Conn.

Hunter, J. B., & Co. ("Henry" for Wood & Metal), 60 Summer, Boston, Mass.

Jennings, C. E. & Co., 42 Murray, New York; Works, Chester, Conn.

Johnson, Wm., (Hedenberg Works), Newark, N. J.

Mayhew, H. H. Co., Shelburne Falls, Mass.

MORSE TWIST DRILL & MACHINE
Co. (Blt Stock & Combined Drills & Countersinks), New Bedford, Mass. (See adv. index, end of book)

National Twist Drill & Tool Co. ("National" Bit Stock), Detroit, Mich.

Polk, A. J. & Son (For Drilling Machines, etc.), Millersburg, Pa.

Smith, Otis A. (For Wood Workers), Rockfall, Conn.

Snell Mfg. Co., Fiskdale, Mass.
Standard Tool Co., Central av, & P. Ry., Cleveland, O.

Stanley Rule & Bevel Co., New Britain, Conn., & 107 Chambers, New York

Starrett, L. S. Co. (Double Lap, etc.), Athol, Mass.

Swan, Jas. Co., Seymour, Conn.
Syracuse Twist Drill Co., Syracuse, N. Y.

Tuck Mfg. Co. (Rose, Flat), Brockton, Mass.
Vaughn & Bushnell Mfg. Co., 877 W Carroll av, Chicago, Ill.

WELLS BROS. CO. ("LITTLE GIANT")
Greenfield, Mass. (See adv. index, end of book)

WHITMAN & BARNES MFG. CO.,
Chicago, Ill. (See adv. index, end of book)

Wiley & Russell Mfg. Co. ("Lightning"), Greenfield, Mass.

Countersinks & Center Drills (Combined)

Cleveland Twist Drill Co., Cleveland, O.
Detroit Twist Drill Co., Detroit, Mich.

MORSE TWIST DRILL & MACHINE
Co., New Bedford, Mass. (See adv. index, end of book)

National Twist Drill & Tool Co., Detroit, Mich.
Slocumb, J. T. Co., Providence, R. I.

Standard Tool Co., Cleveland, O.
WHITMAN & BARNES MFG CO., Chi-
cago, Ill. (See adv. index, end of book)

Couplers (Car)

American Steel Foundries, Main Office, 42 B'way, New York, & Commercial Nat'l Bank bldg, Chicago, Ill.

Automatic Steam & Air Coupler Co., Albany, N. Y.

Buckeye Steel Castings Co. ("Buckeye" & "Major"), Columbus, O.

Chester Steel Castings Co., Chester, Pa., & 407 Sansom, Philadelphia, Pa.

Consolidated Car Heating Co. ("Sewell," etc.)
42 B'way, New York Works; Albany, N. Y.

Dayton Malleable Iron Co., Dayton, O.
Erie Car Works, Erie, Pa.

Forsyth Automatic Air & Steam Coupler Co. (Automatic Air & Steam), "The 'Rookery,'" Chicago, Ill.

Gould Coupler Co., 1 W. 34th, New York

Heath, A. R. ("Heath" Automatic Gravity), Covington, Ind.

Hinson Mfg. Co., 234 La Salle, Chicago

Insert Knuckle Co. (Sharp Curve Automatic), Indianapolis, Ind.

Latrobe Steel & Coupler Co., Old Colony bldg, Chicago, Ill.

McConway & Torley Co. ("Kelso" & "Janey," Made from Open Hearth Cast Steel), 48th & A. V. Ry., Pittsburg, Pa.

McLaughlin Car Coupler Co., Hutchinson & Columbia av, Phila., Pa.

Michigan Malleable Iron Co., Detroit, Mich.

National Car Coupler Co. (Passenger & Freight, "National," Monadnock bldg., Chicago, Ill. Works: Converse, Ind.

National Malleable Casting Co. (Tower), Cleveland, Chicago, Indianapolis & Toledo

New York Car Wheel Co., Buffalo, N. Y., & 771 G'wich, New York

Pratt & Letchworth Co. (Pooley), 189 Tonawanda, Buffalo, N. Y.

Pittsburg Steel Foundry, Pittsburg, Pa. Works, Glassport, Pa.

Railroad Supply Co., Bedford bldg, Chicago, Ill., & 143 Liberty, New York

RUSSEL WHEEL & FOUNDRY CO.,
(Cast Iron), Detroit, Mich. (See adv. index, end of book)

Smillie Coupler & Mfg. Co., Newark, N. J., & 39 Courtlandt, N. Y.

St. Louis Car Roof Co., 405 N 6th, St. Louis, Mo.

Standard Coupler Co., 160 Broadway, N. Y.;
Works, Bridgeport, Conn.
Trojan Car Coupler Co., Troy, N. Y.; 500 5th
av, New York, & Monadnock blk, Chicago
Troy Malleable Iron Co. ("M. C. B."), Troy,
N. Y.
Wallace Supply Co. ("S & W."), 56 5th av,
Chicago, Ill.
Washburn Coupler Co., Minneapolis, Minn.
Wells, F. L. (The California), 116 S Clinton,
Chicago, Ill.
Westinghouse Air & Steam Coupler Co., 1923 N
Broadway, St. Louis, Mo.
Whiteley Malleable Castings Co., Muncie, Ind.
Wilmington Malleable Iron Co., Wilmington,
Del.

Couplers (Shaft & Pole)

Bradley, C. C. & Son, Syracuse, N. Y.
Catham, Chas. (Open Head), Beloit, Wis.
Eccles Richmond Co. (Ball Bearing), Auburn,
Empire State Shaft Coupling Co., Utica, N. Y.
Evans, Coppins & Starks Co. (Shaft) Princeton,
Ill.
Jerseyville Novelty Works ("McNair's"), Jer-
seyville, Ill.
Morrell, Osgood, Amesbury, Mass.
Mulholland Co., Dunkirk, N. Y.
Queen City Forging Co., Cincinnati, O.

Couplings (Air Hose)

(See Pneumatic Hose Couplings)

*Couplings (Angle)

BROWN, A. & F. CO., 25 Dey, New
York. Works: Elizabethport, N. J. (See
adv. on opp. page)
Robinson-Tilton Machinery Co., 515 W. 1st
av, Columbus, O.

Couplings (Bell Cord)

Creamer, W. G. & Co., 96 John, N. Y.
Handlan-Buck Mfg. Co. (The Shelby), 212 N 3d
St. Louis, Mo.
Smith & Wallace (Register Cord for Street
Railways), Woburn, Mass.
Sterling-Meeker Co. ("Triton"), Newark, N. J.
Stowell Mfg. & Foundry Co., South Milwaukee,
Wis.
Wilcox, Crittenden & Co., Middletown, Conn.

Couplings (Boiler)

Campbell, J. B. Brass Works, Erie, Pa.
Clum & Atkinson, Rochester, N. Y.
Exeter Brass Works, Exeter, N. H.
Forest City Brass Works, Cleveland, O.
Hoffman-Billings Mfg. Co., 178 Becher, Mil-
waukee, Wis.
Lawler Water Feed & Damper Regulator Co.
("Lawler's" Protector), 473 B'way, New
York
Mueller, H. Mfg. Co., Decatur, Ill.
Nunn Brass Works (Inc.), Rochester, N. Y.
Spence Mfg. Co., 279 Park, Milwaukee, Wis.
Trenton Brass & Machine Co. ("Trenton"),
Trenton, N. J.
Western Tube Co. (Iron & Brass), Kewanee,
Ill.

Couplings (Clamp)

American Tool & Machine Co., 109 Beach, Boston
Mass.
BROWN, A. & F. CO., 25 Dey, New
York. Works: Elizabethport, N. J. (See
adv. on opp. page)
Cresson, Geo. V. Co. (Internal, etc.), 18th &
Allegheny av, Phila., Pa.
DODGE MFG. CO. ("The Grim
Death"), Mishawaka, Ind. (See adv. index,
& branch offices, end of book)
Klein, Chas. C., 2850 N Marshall, Phila., Pa.
Valley Iron Works, Williamsport, Pa.

Couplings (Closet)

Hydraulic Specialty Co. ("Universal"), 427
Walnut, Philadelphia, Pa.
Illinois Malleable Iron Co., 30 W. Monroe, Chi-
cago, Ill.
Ohio Brass & Iron Mfg. Co., Cleveland, O.
Park & McKay Co., Detroit, Mich.
Republic Rubber Co., Youngstown, O.
Salem Brass & Iron Mfg. Co. (Rubber), Salem,
N. J.
Superior Mfg. Co., Cleveland, O.

Couplings (Clutch)

BARTLETT, C. O. & SNOW CO.,
Cleveland, O. (See adv. index, end of
book)
BROWN, A. & F. CO., 25 Dey, New
York. Works: Elizabethport, N. J. (See
adv. on opp. page)
Buhl Malleable Co., Wight & Adair, Detroit,
Mich.
Chain Belt Co. (Spiral Square, etc.), Milwau-
kee, Wis.
Cresson, Geo. V., Co., Allegheny av W. of
17th, Phila., Pa., & 141 Liberty, N. Y.
DODGE MFG. CO., Mishawaka, Ind.
(See adv. index & branch offices, end of book)
Falls Rivet & Machine Co., Cuyahoga Falls, O.,
& 208 Fulton, New York
Frick Co., Waynesboro, Pa.
Huntsville Foundry & Machine Works (Nolan &
Jones, Props.), Huntsville, Ala.
Jones & Laughlins Steel Co., Pittsburgh, Pa.
Medart Patent Pulley Co., 3500 De Kalb av
St. Louis, Mo.
Platt Iron Works Co., Dayton, O., & 100 B'way
New York
Poole, Engineering & Machine Co., Baltimore,
Md.
Standard Gauge Steel Co., Beaver Falls, Pa.

Couplings (Compression)

BROWN, A. & F. CO., 25 Dey, New
York. Works: Elizabethport, N. J. (See
adv. on opp. page)
Chain Belt Co., ("C. B. Co.") Milwaukee, Wis.
Davis, W. P. Machine Co. (for line shafting),
Rochester, N. Y.
DODGE MFG. CO., Mishawaka, Ind.
(See adv. index & branch offices, end of book)
Forster Pulley Works ("Estes" Shaft), Cuba,
Garland, M. Co., Bay City, Mich.
Huntsville Foundry & Machine Works (Nolan &
Jones, Props.), Huntsville, Ala.
Jones & Laughlin Steel Co., Pittsburgh, Pa.
MINNEAPOLIS STEEL & MACHIN-
ery Co., Minneapolis, Minn. (See adv. in-
dex & branch offices, end of book)
Nicholson, W. H. & Co. (Shaft), Wilkes-Barre,
Pa.
Plamondon, A. Mfg. Co., 57 S. Clinton, Chi-
cago, Ill.
Poole Engineering & Machine Co., Baltimore,
Md.
Shaw Coupling Co., Syracuse, N. Y.
STANDARD GAUGE STEEL CO.,
Beaver Falls, Pa. (See adv. index, end of
book)
Stuart, R. J. & T. H. (Wedge), New Hamburg,
N. Y.
Thomas-Fordyce Mfg. Co., Little Rock, Ark.
Valley Iron Works, Williamsport, Pa.
Vandergrift Coupling Co., Evansville, Ind.

Couplings (Conduit)

CHASE-SHAWMUT CO. ("CHASE"
Nipples & Flexible Conduit Couplings).
Newburyport, Mass. (See adv. index, end
of book)
Wallace Supply Co. ("Bendon" Steel Spring
Lath), 56 5th av, Chicago, Ill.
Western Electric Co., 259 S. Clinton, Chicago,
Ill., & 57 Bethune, N. Y.

Couplings (Conduit Rod)

(See Rods, Conduit Wiring & Cleaning)

Couplings (Cut-Off)

Brightman Mfg. Co. (Friction Clutch), Shelby,
O.
BROWN, A. & F. CO., 25 Dey, New
York. Works: Elizabethport, N. J. (See
adv. on opp. page)
Carruthers-Fithian Clutch Co., Grove City, Pa.
Cresson, Geo. V., Co., Allegheny av W. of 17th,
Ohio, & 208 Fulton, New York
DODGE MFG. CO., Mishawaka, Ind.
(See adv. index & branch offices, end of book)
Eastern Machinery Co., New Haven, Conn.
Falls Rivet & Machine Co., Cuyahoga Falls,
O., & 208 Fulton, New York
Friction Pulley & Machine Works, Sandy Hill,
N. Y.
Hess-Snyder Co., Massillon, O.
Jones, W. A., Foundry & Machine Co., 143
North av, Chicago, Ill.
Jones & Laughlin Steel Co., Pittsburgh, Pa.
Minster Machine Co., Minster, O.
Moore & White Co., 15th & Lehigh av, Phila-
delphia, Pa.

Platt Iron Works Co., Dayton, O., & 100
B'way, New York
Poole Engineering & Machine Co., Woodberry
Sta, Baltimore, Md.

Couplings (Expansion)

Elkhart Brass Mfg. Co. (Expansion Ring), Elk-
hart, Ind.
Love, C. A. & Bro. (for Connecting Lead & Iron
Pipe), Bryn Mawr, Pa.
Ohio Pump & Brass Co. (Expansion Rod), 18th
& Oak, Columbus, O.

Couplings (Flange)

American Tool & Machine Co., 109 Beach, Bos-
ton, Mass.
BROWN, A. & F. CO., 25 Dey, New
York. Works: Elizabethport, N. J. (See
adv. on opp. page)
Chain Belt Co. (Flanged Face), Milwaukee,
Wis.
DODGE MFG. CO., Mishawaka, Ind.
(See adv. index & branch offices, end of book)
Huntsville Foundry & Machine Co., Huntsville,
Ala.
Jefferson Mfg. Co., Lexington, Mass.
MINNEAPOLIS STEEL & MACHIN-
ery Co., Minneapolis, Minn. (See adv. in-
dex & branch offices, end of book)
Nicholson, W. H. & Co. (Compression), Wilkes-
Barre, Pa.
Pittsburg Steel Shafting Co., Park bldg., Pitts-
burg, Pa. Works, Rankin, Pa.
Plamondon, A. Mfg. Co., 57 S. Clinton, Chicago,
Ill.
Valley Iron Works, Williamsport, Pa.

Couplings (Flexible)

Boston Gear Works (Crucible Steel), Norfolk
Downs, Mass.
BROWN, A. & F. CO., 25 Dey, New
York. Works: Elizabethport, N. J. (See
adv. on opp. page)
DODGE MFG. CO., Mishawaka, Ind.
(See adv. index & branch offices, end of book)
ELECTRIC CONTROLLER & SUPPLY
Co. (See adv. index & branch offices,
end of book)

Couplings (Friction Clutch)

AMERICAN WELL WORKS, Aurora,
Ill. (See adv. index & branch offices, end
of book)
Blakeslee Mfg. Co. (Automatic), Birmingham,
Ala.
BLISS, E. W. CO., 19 Adams, Brook-
lyn, N. Y. (See adv. index, end of book)
Brightman Mfg. Co. (Cut-off), Shelby, O.
BROWN, A. & F. CO., 25 Dey, New
York. Works: Elizabethport, N. J. (See
adv. on opp. page)
Cresson, Geo. V., Co., Allegheny av W. of 17th,
Phila., Pa., & 141 Liberty, N. Y.
DODGE MFG. CO., Mishawaka, Ind.
(See adv. index & branch offices, end of book)
Eastern Machinery Co., New Haven, Conn.
Falls Rivet & Machine Co., Cuyahoga Falls,
Ohio, & 208 Fulton, N. Y.
Great Western Mfg. Co., Leavenworth, Kan.
Hill Clutch Co., ft. 58th, N. W., Cleveland, O.
Klein, Chas. C., 2850 N Marshall, Phila., Pa.
Medart Patent Pulley Co., St. Louis, Mo.
MINNEAPOLIS STEEL & MACHIN-
ery Co., Minneapolis, Minn. (See adv. in-
dex & branch offices, end of book)
Oesterlein Machine Co., 2850 Spring Grove av,
Plamondon, A. Mfg. Co., 57 S. Clinton, Chi-
cago, Ill.
Platt Iron Works Co., Dayton, O., & 100 B'way,
New York
Poole Engineering & Machine Co., Baltimore,
Md.

Couplings (Hose)

Acme Brass Works, 147 Baxter, New York
Allen Fire Department Supply Co., Providence,
R. I.
Allen, W. D. Mfg. Co. (Plain & Automatic), 151
Lake, Chicago
Bastian, C. L. Mfg. Co. (Fire Hose), 76 Illinois,
Chicago, Ill.
Boston Coupling Co. (Fire Hose), 156 Pearl,
Boston, Mass.
Boston Woven Hose & Rubber Co., Executive
Office & Factory, Cambridgeport, Mass.
Buckley-Hart Mfg. Co., 527 Franklin, Detroit
Callahan, C. Co., Boston, Mass.
Cassady-Fairbank Mfg. Co. ("Samson"), 6106
La Salle, Chicago, Ill.

CHICAGO CAR HEATING CO., Railway Exchange bldg., Chicago, Ill., & 170 B'way, New York. (See adv. index, end of book)

Clark, W. J. Co. ("Quick-as-Wink"), Salem, O.
Clay, Jno. H. ("Clay-Jones" Fire Hose), 1320 Ridge av., Phila., Pa.

CLEVELAND PNEUMATIC TOOL CO. ("Bowes"), 6410 Hawthorne ave., Cleveland. (See adv. index & branch offices, end of book)

Combination Ladder Co. ("McIntyre"), Providence, R. I.

Crane Co. (Est. 1855), 519 S. Canal, Chicago, Ill. (See adv. index & branch offices, end of book)

Diamond Mfg. Co., Belleville, N. J.
Eastwood Wire Mfg. Co., Belleville, N. J.

Edson Mfg. Co., 257 Atlantic av., Boston, Mass.
Elkhart Brass Mfg. Co. (also Suction Hose), Elkhart, Ind.

Fabric Fire Hose Co., Duane & Church, New York

Globe Brass Co., Detroit, Mich.
Gunnell Machine Co., Manitowoc, Wis.

Handlan-Buck Mfg. Co. ("Lightning," for Compound Air), 212 N 3d, St. Louis, Mo.

Hindermeyer, Jos., & Son, "Jones," Fire Hose), 328 Vine, Phila., Pa.

James Mfg. Co. ("Klingtite"), Denver, Col.
Libby Valve & Packing Co., 147 Varick, New York

Lupper, Wendel (Brewers), 216 Locust, St. Louis, Mo.

National Pipe & Hose Coupler Co. ("Joy" Automatic Air), Detroit, Mich.

NATIONAL SUPPLY CO. (All Sizes), 7 W. Lombard, Baltimore, Md. (See adv. index, end of book)

Nelson & Morrison (Snap), Boulder, Colo.

Neumeyer, H. F. ("Never Slip"), Macungie, Pa.

Pioneer Brass Works ("Rice" Expansion Ring), Indianapolis, Ind.

Pleuger & Henger Mfg. Co., 11th & Herbert, St. Louis, Mo.

Pittsburg Hose Connector Co. ("Pittsburg"), Pa.

Quincy-Manchester-Sargent Co., Old Colony bldg., Chicago, Ill., & 114 Liberty, New York

Sherman, H. B. Mfg. Co., Battle Creek, Mich.

Voorhes Rubber Mfg. Co., Jersey City, N. J.

Walworth Mfg. Co., 132 Federal, Boston, Mass.

Waterbury Brass Goods Corporation (Wrought Brass), Waterbury, Conn.

Waterbury Rubber Mfg. Co., 75 Warren, New York

WHITMAN & BARNES MFG. CO., Chicago, Ill. (See adv. index & branch offices, end of book)

Woodhouse Mfg. Co. (Fire Hose), 50 W B'way, New York

*Couplings (Insulated)

BROWN, A. & F. CO., 25 Dey, New York. Works, Elizabeth, N. J. (See adv. below)

Couplings (Lead Flange)

Mueller, H. Mfg. Co., Decatur, Ill.
Ohio Pump & Brass Co. (also Iron Flange), 18th & Oak, Columbus, O.

Couplings (Lead Pipe)

Anderson Coupling Co. ("Anderson"), Portland, Fostoria Novelty Co., Fostoria, O.
Kidder, D. & Son, No. Groton, N. H.

Couplings (Pipe)

Belknap Mfg. Co., Bridgeport, Conn.
Crane Co. (Est. 1855), 519 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)

Cuyler & Mohler, 611 William, Baltimore, Md.

DART, E. M., MFG. CO., Providence, R. I. (See adv. index, end of book)

Dayton Pipe Coupling Co., Dayton, O.

Dresser, S. R. Mfg. Co. ("Dresser"), Bradford, Pa.

Elkhart Brass Mfg. Co. (Steam & Water, Brass), Elkhart, Ind.

Herold, M. A., 554 Orchard, Milwaukee, Wis.

Illinois Malleable Iron Co., 30 W. Monroe, Chicago, Ill.

General Fire Extinguisher Co., Providence, R. I.

Kelley & Jones Co. ("Kelly"), 135 Water, Pittsburg, Pa.

LUNKENHEIMER CO. (Brass), General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

Mueller, H. Mfg. Co., Decatur, Ill.

New Haven Novelty Machine Co., New Haven, Conn.

Star Coupler Co. ("Star" Solderless), 612 S. 6th, St. Louis, Mo.

Strater, Herman & Sons, 74 Sudbury, Boston, Mass.

Couplings (Pipe, for Gas Mains)

Standard Engineering Co., Ellwood City, Pa.

Couplings (Pneumatic Hose)

(See Pneumatic Hose Couplings)

*Couplings (Rod)

RUMSEY & CO. (Ltd.) (For Iron Rods), Seneca Falls, N. Y. (See adv. index & branch offices, end of book)

Couplings (Shaft)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

Almond, T. R. Mfg. Co. (Angular or Quarter Turn Countershaft), 83 Washington, Brooklyn, N. Y.

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)

Barnard & Leas Mfg. Co., Moline, Ill.

Blakeslee Mfg. Co., Birmingham, Ala.

BROWN, A. & F. CO., 25 Dey, New York. Works: Elizabethport, N. J. (See adv. below)

Caldwell, H. W. & Son Co., Chicago, Ill.

Chickasaw Iron Works, Memphis, Tenn.

Cresson, Geo. V., Co., Allegheny av W. of 17th, Phila., Pa.

Davis, W. P. Machine Co., Rochester, N. Y.

DODGE MFG. CO., Mishawaka, Ind. (See adv. index & branch offices, end of book)

Ehrsam, J. B. & Sons Mfg. Co., Enterprise, Kan.

Ellicott Machine Co., cor Bush & Severn, Baltimore, Md.

Forster Pulley Works ("Estes" Compression), Cuba, N. Y.

Falls Rivet & Machine Co., Cuyahoga Falls, O.

Franklin Machine Co., Providence, R. I.
Golden's Foundry & Machine Co., Columbus, Ga.
Great Western Mfg. Co., Leavenworth, Kan.

Holyoke Machine Co., Holyoke, Mass.

Hunter, James Machine Co., North Adams, Mass., & 70 Kilby, Boston

Huntsville Foundry & Machine Works (Nolan & Jones, Props.), (Compression, Flange, Clutch, etc.), Huntsville, Ala.

Jones & Laughlin Steel Co., Pittsburg, Pa.

LANE MFG. CO., Montpelier, Vt. (See adv. index, end of book)

Lane & Bodley Co., cor John & Water, Cincinnati, O.

Lombard Iron Works & Supply Co., Augusta, Ga.

Medart Patent Pulley Co., 3500 De Kalb av, St. Louis, Mo.

Nordyke & Marmon Co., Indianapolis, Ind.

Plamondon, A. Mfg. Co., 57 S. Clinton, Chicago, Ill.

Platt Iron Works Co., Dayton, O., & 100 B'way, New York

Poole Engin'g & Machine Co., Baltimore, Md.

Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Phila., Pa.

STANDARD GAUGE STEEL CO., Beaver Falls, Pa. (See adv. index, end of book)

Stuart, B. J., New Hamburg, N. Y.

Thomas Mfg. Co., Little Rock, Ark.

TUOHY BROS. CO., 95 Liberty, New York. (See adv. index, end of book)

Vandergrift Coupling Co. (Line Shaft), Evansville, Ind.

Vulcan Iron Works, Wilkes-Barre, Pa.

Witte Iron Works Co., Kansas City, Mo.

*Couplings (Sucker Rod)

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)

OIL WELL SUPPLY CO., 215 Water, Pittsburg, Pa. (See adv. index, end of book)

RUMSEY & CO. (Ltd.) (Wrought Forged), Seneca Falls, N. Y. (See adv. index & branch offices, end of book)

*Couplings (Swivel)

LUNKENHEIMER CO., General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

WILLIAMS, D. T. VALVE CO., 904 B'way, Cincinnati, O. (See adv. index, end of book)

Couplings (Water Back)

Campbell, J. B., Brass Wks., Erie, Pa.

Clum & Atkinson, Rochester, N. Y.

Elkhart Brass Mfg. Co. (Brass), Elkhart, Ind.

Forest City Brass Works, Cleveland, O.

Trenton Brass & Machine Co., Trenton, N. J.

Covers (Battery Jar)

American Hard Rubber Co., 11 Mercer, New York

Dickinson Mfg. Co., Springfield, Mass.

Duranoid Mfg. Co., 28 Prospect, Newark, N. J.

*Covers (Catch Basin)

CANTON FOUNDRY & MACHINE CO., Canton, O. (See adv. index, end of book)

FRICITION CLUTCH COUPLINGS.

FRICITION CLUTCH PULLEYS.

F. BROWN'S PATENT.

SHAFTING, PULLEYS, HANGERS, GEARS, ETC.

THE A. & F. BROWN CO.

Engineers, Founders, Machinists and Millwrights,

WORKS:

ELIZABETHPORT, N. J.

ENGINEERING OFFICE & SALESROOMS:

25 DEY ST., NEW YORK.

Nazareth Foundry & Machine Co., Nazareth, Pa.
Stowell Mfg. & Foundry Co., South Milwaukee, Wis.

Sturtevant, B. F. Co., Hyde Park, Mass.
Vulcan Iron Works, 59 Milwaukee av, Chicago, Ill.

Walter, W. B. & Co., Marquette bldg, Chicago, Ill.

Covers (Nut)

Erie Stamping & Mfg. Co., Erie, Pa.

Crabs (Hoisting)

BROWN HOISTING MACHINERY CO., St. Clair, N E, Cleveland, O., & 26 Cortlandt, N. Y. (See adv. index, end of book)

BYERS, JOHN F. MACHINE CO., Ravenna, O. (See adv. index, end of book)

CARPENTER, GEO. B. & CO., 202 S Water, Chicago, Ill. (See adv. index, end of book)

DOBBIE FOUNDRY & MACHINE CO., Main Office & Works, Niagara Falls, N. Y. (See adv. index & branch offices, end of book)

FAIRBANKS, MORSE & CO. (Windmill, etc.), Franklin & Monroe, Chicago, Ill. (See adv. index & branch offices, end of book)

Helmick Foundry & Machine Co., Fairmont, W. Va.

McKEOWN, H. J., 248 Butler, Cincinnati, O. (See adv. index, end of book)

Niles-Mine & Mill Supply Co., Cleveland, O., & Niles, O.

Round, D. & Son, 2287 B'way, Cleveland, O.

Crackers (Nut)

(See Nut Crackers & Picks)

Cradles (Grain)

Bovec, Samuel B., Cogan Station, Pa.
Brown, Hinman & Huntingdon Co., Memphis, Tenn.

Iowa Farming Tool Co., Fort Madison, Ia.

McGuire, B. C. J., Wilmore, Pa.
Miller, J. B. & Co., Washington, Pa.
Spear, W. D., Conewango, N. Y.

Withington & Cooley Mfg. Co., Jackson, Mich.

Crane Controllers (Electric)

Automatic Switch Co., 131 Liberty, New York
CASE MFG. CO., St. Clair & Curtis avs, Columbus, O. (See adv. index, end of book)

CUTLER-HAMMER MFG. CO. (Reversible for Electric Cranes, Hoists, etc.), Milwaukee, Wis. See adv. index & branch offices, end of book)

ELECTRIC CONTROLLER & SUPPLY Co. (Reversing, for Electric Cranes, Hoists, etc.), Cleveland, O. (See adv. below; branch offices, end of book)

GENERAL ELECTRIC CO., Schenectady, N. Y. (See adv. index, end of book)

MORGAN ENGINEERING CO., Alliance, O. (See adv. index, end of book)

PHOENIX ELECTRIC CO., Mansfield, O. (See adv. index, end of book)

WESTINGHOUSE ELECTRIC & MFG. Co., Pittsburg, Pa. (See adv. index, end of book)

Cranes

(For various kinds of Cranes see sub-classifications following.)

Alliance Machine Co., Alliance, Ohio.
American Machine & Mfg. Co., Cleveland, O.

Box, Alfred & Co., 813 N Front, Phila., Pa.
BALANCED CABLE CRANE CO., THE, 135 William, New York. (See adv. opp. last page of Index of Contents)

BROWN HOISTING MACHINERY CO., St. Clair, N E, Cleveland, O., & 26 Cortlandt, New York. (See adv. index, end of book)

Browning Engineering Co., Cleveland, O.

CASE MFG. CO., St. Clair & Curtis avs, Columbus, O. (See adv. index, end of book)

Chambersburg Engineering Co., Chambersburg, Pa.

Cleveland Crane & Car Co., Wickliffe, O.

Currier, Cyrus & Sons, Newark, N. J.
Curtis & Co. Mfg. Co. (Air), St. Louis, Mo.

DOBBIE FOUNDRY & MACHINE CO., Main Office & Works, Niagara Falls, N. Y. (See adv. index & branch offices, end of book)

Dodge Coal Storage Co. (Locomotive, Stationary & Revolving), Nicetown, Philadelphia, Pa.

FREVERT MACHINERY CO., 18 Dey, New York. (See adv. on following page)

Gregg Co. (Ltd.), Newburgh, N. Y.

Harrington, Edw. Son & Co., 17th & Callowhill, Philadelphia, Pa.

Industrial Works, Bay City, Mich.

Interstate Engineering Co., Bedford, O.

KINSEY, E. A. CO., 331 W 4th, Cincinnati, O. (See adv. index, end of book)

LANE MFG. CO. ("Anderson" Rope Driven Traveling), Montpelier, Vt. (See adv. opp. next page)

Lewis Foundry & Machine Co. (Hydraulic, Steam & Hand), 1001 Bingham, Pittsburg, Pa.

Lincoln Iron Works, Rutland, Vt.

Mackintosh-Hemphill & Co. (Ltd.), ft 12th st., Pittsburg, Pa.

McMyler Mfg. Co., 1799 Columbus rd, Cleveland, O.

MANNING, MAXWELL & MOORE (The "Shaw"), 85, 87 & 89 Liberty, New York. (See adv. index, & branch offices, end of book)

Maris Bros., 56th & Gray's av, Phila., Pa.
Morgan Construction Co., Worcester, Mass.

MORGAN ENGINEERING CO., Alliance, O. (See adv. index, end of book)

Niles-Bement-Pond Co., 111 B'way, New York

NORTHERN ENGINEERING WORKS, Detroit, Mich. (See adv. index, end of book)

Pawling & Harnischfeger, 38th & National avs, Milwaukee, Wis.

READING CRANE & HOIST WORKS, Reading, Pa. (See adv. index, end of book)

Ridgway Craig & Son Co., Coatesville, Pa.

Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Philadelphia, Pa.

SHAW ELECTRIC CRANE CO., Muskegon, Mich., & 85, 87, 89 Liberty, New York, N. Y. (See adv. index & branch offices, end of book)

Shriver, T. & Co., 333 E 56th, New York
Smith, Whitcomb & Cook Co., Barre, Vt.

SPEIDEL, J. G., Buttonwood & Gordon, Reading, Pa. (See adv. index, end of book)

Toledo Foundry & Machine Co., Toledo, O.
TUOHY BROS. CO., 95 Liberty, New York. (See adv. index, end of book)

United Engineering & Foundry Co., Farmers Bank bldg, Pittsburg, Pa.

Vulcan Foundry & Machine Co., New Castle, Pa.

Vulcan Iron Works (Dock), 5 La Grange, Toledo, O.

WELLMAN-SEAEVER-MORGAN CO., Cleveland, O., & Akron, O. (See adv. opp. this page)

WHITING FOUNDRY EQUIPMENT Co., Harvey, Ill. (See adv. index & branch offices, end of book)

WILLIAMS, G. H. CO., 1513 Rockefeller bldg, Cleveland, O. (See adv. index, end of book)

Wood, R. D. & Co., 400 Chestnut, Phila., Pa.

Cranes (Air)

(See Cranes, Pneumatic.)

*Cranes (Automobile, Portable)

NICHOLLS, WM. S., 253 Broadway, New York. (See adv. index, end of book)

Cranes (Cantilever)

BALANCED CABLE CRANE CO., THE, 135 William, New York. (See adv. opp. last page of Index of Contents)

BROWN HOISTING MACHINERY CO., St. Clair, N E, Cleveland, O., & 26 Cortlandt, New York. (See adv. index, end of book)

CASE MFG. CO., St. Clair & Curtis avs, Columbus, O. (See adv. index, end of book)

Interstate Engineering Co., Bedford, O.

McMyler Mfg. Co., 1799 Columbus rd, Cleveland, O.

NORTHERN ENGINEERING WORKS, 9 Chene, Detroit, Mich. (See adv. index, end of book)

RUSSEL WHEEL & FOUNDRY CO., Detroit, Mich. (See adv. index, end of book)

WELLMAN-SEAEVER-MORGAN CO., Cleveland, O., & Akron, O. (See adv. opp. this page)

WHITING FOUNDRY EQUIPMENT Co., Harvey, Ill. (See adv. index & branch offices, end of book)

Cranes (Charging & Drawing)

Alliance Machine Co., Alliance, O.

BALANCED CABLE CRANE CO., THE, 135 William, New York. (See adv. opp. last page of Index of Contents)

CASE MFG. CO., St. Clair & Curtis avs, Columbus, O. (See adv. index, end of book)

MORGAN ENGINEERING CO., Alliance, O. (See adv. index, end of book)

Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Phila., Pa.

United Engineering & Foundry Co., Farmers Bank bldg, Pittsburg, Pa.

WHITING FOUNDRY EQUIPMENT Co., Harvey, Ill. (See adv. index & branch offices, end of book)

CONTROLLERS TYPE "U"

1 TO 20 H.P.

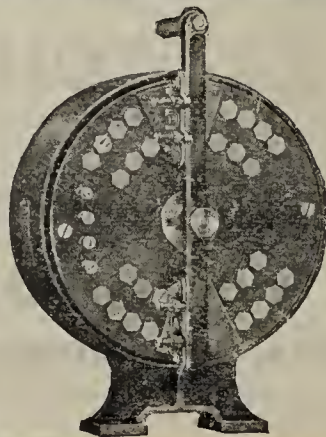
This type of controller is specially adapted to light crane and hoist service.

They are small, compact, and durable, and can be mounted in any position.

All parts interchangeable.

T
Y
P
E

"U"



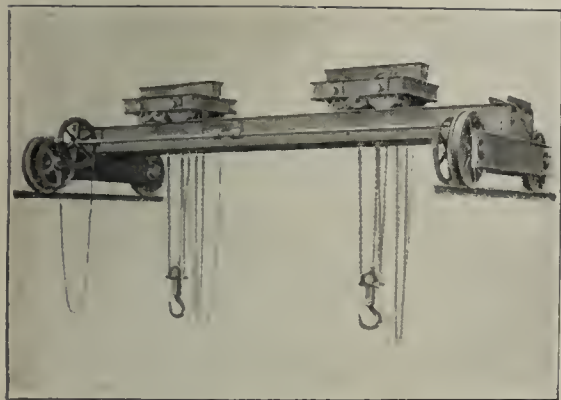
T
Y
P
E

"U"

WRITE FOR
BULLETIN
No. 102.



THE
ELECTRIC
CONTROLLER
& SUPPLY CO.
CLEVELAND, O.



PULLEY BLOCK TRAVELER



LOCOMOTIVE CRANE



ELECTRICAL TRAVELING CRANE

THE BROWN HOISTING MACHINERY CO.

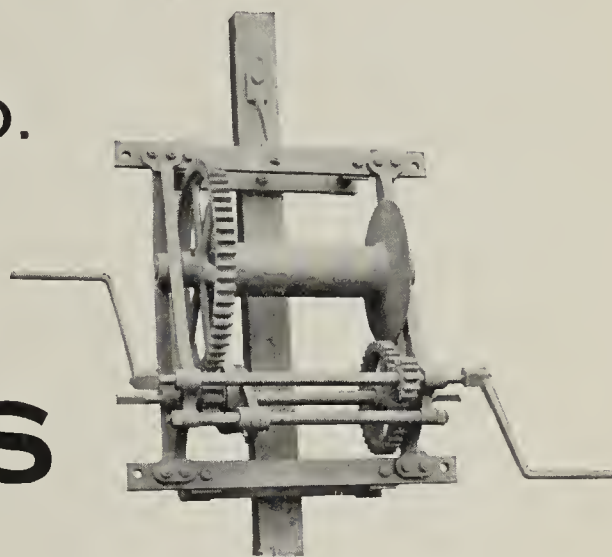
MAIN OFFICE AND WORKS

CLEVELAND, O.

CRANE BUILDERS



TROLLEY AND TRAMRAIL



SINGLE POLE WINCH

Locomotive Cranes. Electric Traveling Cranes. Pulley Block Cranes. Pillar Cranes.
Bridge Cranes. Cantilever Cranes. Jib Cranes. Floating Cranes, etc., etc.
In fact, any type of Crane; any Lifting Capacity; any Power.
Also Overhead Trolley and Tramrail Equipment.

Makers of the Celebrated Weston Safety CRABS and WINCHES.

NEW YORK

26 Cortlandt Street

LONDON

39 Victoria St., S. W.

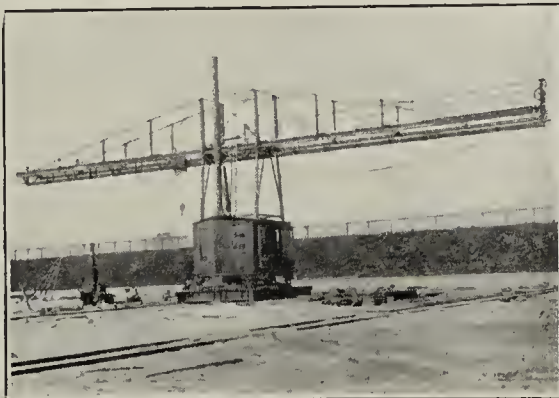
PITTSBURG

Frick Building

CODES USED: LIEBER'S, A. B. C., A1 AND DIRECTORY.



PILLAR CRANE



CANTILEVER CRANE



BRIDGE CRANE

The Anderson Patent Traveling Crane

IF YOU HAVEN'T ONE, BETTER PURCHASE AT ONCE

THE POWER TRAVELING CRANE

has become a recognized necessity in every stone-cutting plant.

EVERYBODY CAN AFFORD ONE

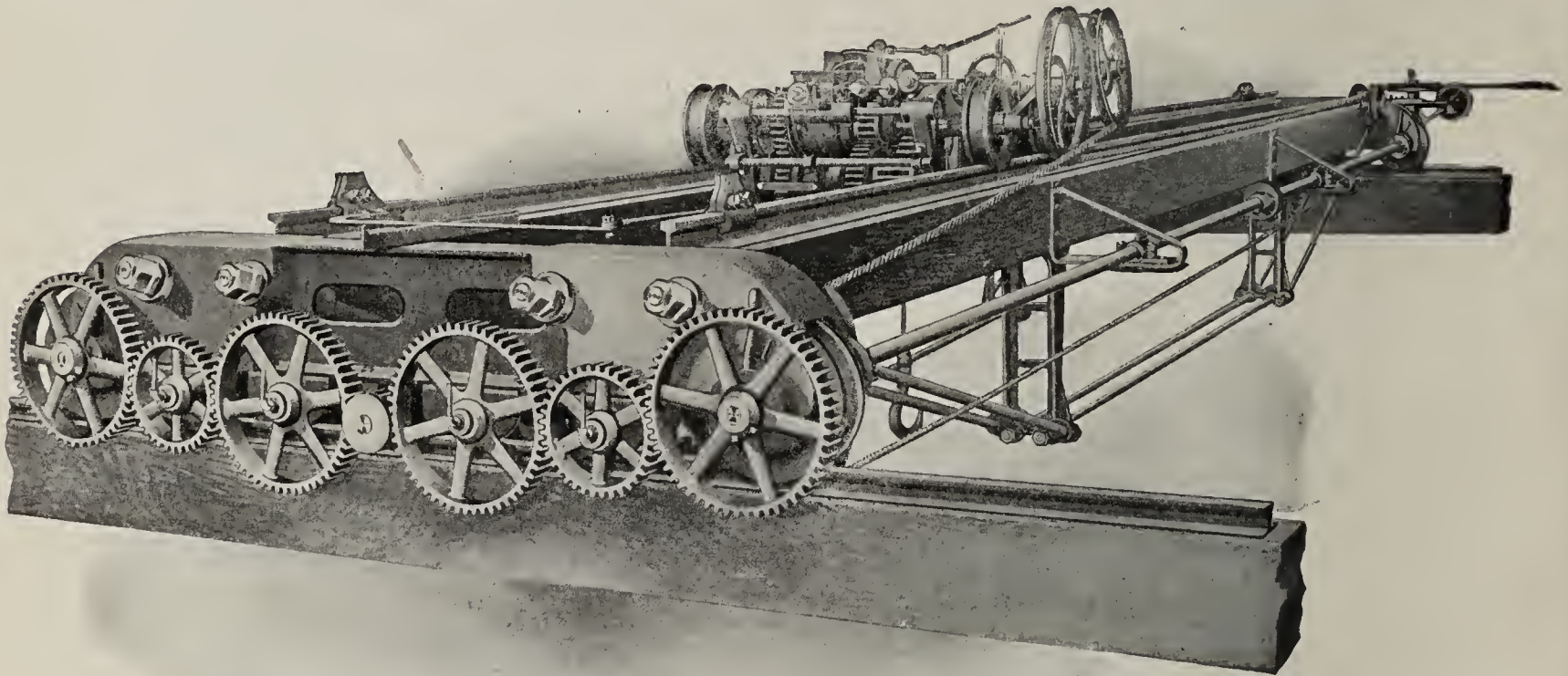
at the price we charge, so all may enjoy its many advantages.

THE PECULIAR METHOD OF ROPE

driving employed is patented and is a great saver of power.

A SIGNAL MAN ISN'T NEEDED

with our crane. Operator is over the work where he can best see to placing it.



It is a Time Saver. It Handles Stone Without Injury. It Facilitates Execution of Orders. It Brings the Expense Account DOWN and the Profits UP. 10, 20 and 40 Tons Capacity. Fully Described in Our Catalogue. We are Prepared to Furnish Plans for the Most Modern Stone Plants and the Complete Equipment.

We also build The Lane Patent Circular Saw Mills and a complete line of Wood-Working Machinery.

LANE MANUFACTURING COMPANY,
Montpelier, Vt., U. S. A.

Cranes (Concentric Traveling)*WHITING FOUNDRY EQUIPMENT**
Co., Harvey, Ill. (See adv. index & branch offices, end of book)***Cranes (Derrick)****OIL WELL SUPPLY CO., 215 Water,**
Pittsburg, Pa. (See adv. index, end of book)**Cranes (Dock)****BALANCED CABLE CRANE CO., THE,**
135 William, New York. (See adv. opp. last page of Index of Contents)**BROWN HOISTING MACHINERY CO.,**
St. Clair, N. E., Cleveland, O., & 26 Cortlandt, New York. (See adv. index, end of book)**DOBBIE FOUNDRY & MACHINE CO.,**
Main Office & Works, Niagara Falls, N. Y. (See adv. index & branch offices, end of book)
Industrial Works (Steam or Hand), Bay City, Mich.

McMyler Mfg. Co., 1799 Columbus rd., Cleveland, O.

NICHOLLS, WM. S. (Portable), 253
B'way, New York. (See adv. index, end of book)**NORTHERN ENGINEERING WORKS,**
9 Chene, Detroit, Mich. (See adv. on following page)

Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Philadelphia, Pa.

WHITING FOUNDRY EQUIPMENT
Co., Harvey, Ill. (See adv. index & branch offices, end of book)**WILLIAMS, G. H. CO., 1513 Rockefeller bldg.,**
Cleveland, O. (See adv. index, end of book)**Cranes (Electric Locomotive)**Alliance Machine Co., Alliance, O.
BALANCED CABLE CRANE CO., THE,
135 William, New York. (See adv. opp. last page of index of contents)**BROWN HOISTING MACHINERY CO.,**
St. Clair, N. E., Cleveland, O., & 26 Cortlandt, New York. (See adv. index, end of book)
Browning Engineering Co., Cleveland, O. book)
Industrial Works, Bay City, Mich.
Maine Electric Co. (Variable & Fixed Radius), Portland, Me.McMyler Mfg. Co., 1799 Columbus rd., Cleveland
NORTHERN ENGINEERING WORKS,
9 Chene, Detroit, Mich. (See adv. on following page)**Cranes (Electric Traveling)**

Alliance Machine Co. (also Electric Jib), Alliance, O.

American Machine & Mfg. Co., Cleveland, O.
BALANCED CABLE CRANE CO., THE,
135 William, N. Y. City. (See adv. opp. last page of index of contents)Box, Alfred & Co., 813 N Front, Phila., Pa.
BROWN HOISTING MACHINERY CO.,
St. Clair, N. E., Cleveland, O., & 26 Cortlandt, New York. (See adv. index, end of book)**CASE MFG. CO., St. Clair & Curtis**
avs. Columbus, O. (See adv. index, end of Cleveland Crane & Car Co., Wickliffe, O. book)**FREVERT MACHINERY CO., 18 Dey,**
New York. (See adv. in last column)**GENERAL ELECTRIC CO., Schenectady,**
N. Y., & 44 Broad, New York. (See adv. index & branch offices, end of book)**GENERAL PNEUMATIC TOOL CO.**
("Shepard"), Montour Falls, N. Y., & 149 B'way, New York. (See adv. below)
Gregg Co. (Ltd.), Newburgh, N. Y.

McMyler Mfg. Co., 1799 Columbus rd., Cleveland, O.

MANNING, MAXWELL & MOORE,
85, 87 & 89 Liberty, New York. (See adv. index & branch offices, end of book)Maris Bros., 56th & Gray's Ferry rd., Phila., Pa.
MORGAN ENGINEERING CO., Alliance,
Ohio. (See adv. index, end of book)

New Jersey Foundry & Machine Co., 15 Murray, New York

Niles-Bement-Pond Co., 111 B'way, New York

North Penn. Iron Co., 3d & Venango, Phila., Pa.

NORTHERN ENGINEERING WORKS,
9 Chene, Detroit, Mich. (See adv. on following page)

Parker Hoist & Machine Co., 971 N Francisco av., Chicago, Ill.

Pawling & Harnischfeger, 38th & National avs., Detroit, Mich. (See adv. index, end of book)

RUSSEL WHEEL & FOUNDRY CO.,
Detroit, Mich. (See adv. index, end of book)

Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Phila., Pa.

SHAW ELECTRIC CRANE CO.,
Muskegon, Mich., & 85, 87, 89 Liberty, New York, N. Y. (See adv. index, end of book)

Shriver, T. & Co., 333 E 56th, New York

Smith, Whitcomb & Cook Co., Barre, Vt.

TUOHY BROS. CO., 95 Liberty,
New York. (See adv. index, end of book)**WELLMAN-SEEVER-MORGAN CO.,**
Cleveland, O., & Akron, O. (See adv. opp. preceding page)

Whitcomb Bros. (Hand), Barre, Vt.

WHITING FOUNDRY EQUIPMENT
Co., Harvey, Ill. (See adv. opp. this page; branch offices, end of book)**Cranes (Forge)**

Alliance Machine Co., Alliance, O.

American Machine & Mfg. Co. (Steam), Cleveland, O.

CASE MFG. CO., St. Clair & Curtis
avs. Columbus, O. (See adv. index, end of book)**MORGAN ENGINEERING CO., Alliance,**
Ohio. (See adv. index, end of book)**NORTHERN ENGINEERING WORKS,**
9 Chene, Detroit, Mich. (See adv. on following page)**WHITING FOUNDRY EQUIPMENT**
Co., Harvey, Ill. (See adv. opp. this page; branch offices, end of book)***Cranes (Foundry, Portable)****NICHOLLS, WM. S., 253 Broadway,**
New York. (See adv. index, end of book)**Cranes (Gantry)**

Alliance Machine Co., Alliance, O.

BALANCED CABLE CRANE CO., THE,
135 William, New York. (See adv. opp. last page of index of contents)

Box, Alfred & Co. (Traveling, etc.), 813 N Front, Phila., Pa.

BROWN HOISTING MACHINERY CO.,
St. Clair, N. E., Cleveland, O., & 26 Cortlandt, N. Y. (See adv. index, end of book)**CASE MFG. CO., St. Clair & Curtis**
avs. Columbus, O. (See adv. index, end of book)

Curtis & Co. Mfg. Co. (Pneumatic), St. Louis, Mo.

Interstate Engineering Co., Bedford, O.

McMyler Mfg. Co., 1799 Columbus rd., Cleveland, O.

MORGAN ENGINEERING CO., Alliance,
O. (See adv. index, end of book)**NORTHERN ENGINEERING WORKS,**
9 Chene, Detroit, Mich. (See adv. on following page)

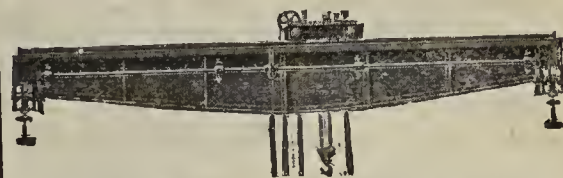
Pawling & Harnischfeger, 38th & National avs., Milwaukee, Wis.

RUSSEL WHEEL & FOUNDRY CO.,
Detroit, Mich. (See adv. index, end of book)

Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Phila., Pa.

SHAW ELECTRIC CRANE CO.,
Muskegon, Mich., & 85, 87, 89 Liberty, New York, N. Y. (See adv. index & branch offices, end of book)**WELLMAN-SEEVER-MORGAN CO.,**
Cleveland, O., & Akron, O. (See adv. opp. preceding page)**WHITING FOUNDRY EQUIPMENT**
Co., Harvey, Ill. (See adv. opp. this page; branch offices, end of book)

Wood, R. D. (with Hydraulic Hoist & Electric Rotation), 400 Chestnut, Phila., Pa.

**CRANES TROLLEYS**
OVER HEAD TRACKS

AND

MACHINE TOOLS**FREVERT MACHINERY CO.****18 Dey Street, NEW YORK****Cranes (Hand Power)**

Alliance Machine Co., Alliance, Ohio.

American Machine & Mfg. Co., Cleveland, O.

Box, Alfred & Co. (Traveling), 813 N. Front, Phila., Pa.

BROWN HOISTING MACHINERY CO.,
Cleveland, O., & 26 Cortlandt, New York.

(See adv. index, end of book)

Byram & Co. (Inc.), Detroit, Mich.

CASE MFG. CO., St. Clair & Curtis
avs. Columbus, O. (See adv. index, end of book)**TO OUR ADVERTISERS AND SUBSCRIBERS.**

At any time during the year, that you do not find classified in our book the names and addresses of the Manufacturers of any ARTICLE you are in the market to PURCHASE, please write us, giving as complete particulars as possible, and we will always endeavor to render you PROMPT SERVICE in furnishing you the names and addresses of such Manufacturers and without any cost or obligation. This does not include Mailing Lists.

S. E. HENDRICKS CO.

CHISHOLM & MOORE MFG. CO., Lake & Kirtland, Chicago, Ill. (See adv. index, end of book)
Cleveland Crane & Car Co. (Traveling, etc.), Cleveland, O.

COBURN TROLLEY TRACK MFG. CO. (And Hand Power Traveling), Holyoke, Mass. (See adv. index, end of book)
Curtis & Co. Mfg. Co., St. Louis, Mo.

DOBBIE FOUNDRY & MACHINE CO., Main Office & Works, Niagara Falls, N. Y. (See adv. index, & branch offices, end of book)

FREVERT MACHINERY CO., 18 Dey, New York. (See adv. on preceding page)

GENERAL PNEUMATIC TOOL CO., Montour Falls, N. Y., & 149 B'way, New York. (See adv. on preceding page)

Gregg Co. (Ltd.), Newburgh, N. Y.

Harrington, Edw. Son & Co., N 15th & Penna av, Phila., Pa.

Industrial Works (Jib & Traveling), Bay City, Mich.

Lewis Foundry & Machine Co., 1001 Bingham, Pittsburg, Pa.

Lincoln Iron Works (Jib, etc., for Stone Quarries & Stone Mills, etc.), Rutland, Vt.

Maris Bros., 56th & Gray's Ferry rd, Phila., Pa.

MOORE, FRANKLIN CO., Winsted, Conn. (See adv. index, end of book)

Morgan Construction Co. (Traveling), Worcester, Mass.

NICHOLLS, WM. S., 253 Broadway, New York. (See adv. on following page)

North Penn Iron Co., 3d & Venango, Phila., Pa.

NORTHERN ENGINEERING WORKS. 9 Chene, Detroit, Mich. (See adv. below)

Obenberger, Jno. Co. (Traveling I Beams, up to 10-ton), Milwaukee, Wis.

Parker Hoist & Machine Co., 971 N. Francisco av, Chicago, Ill.

Pawling & Harnischfeger, 38th & National avs, Milwaukee, Wis.

Putnam & Co. ("Hand Power Traveling"), 244 Water, New York.

Quincy-Manchester-Sargent Co. (& Hand Power Traveling), Old Colony bldg, Chicago, Ill., & 114 Liberty, New York.

Reading Chain Block Works (Traveling), Reading, Pa.

READING CRANE & HOIST WORKS (Traveling, etc.), Reading, Pa. (See adv. index, end of book)

Shaw Electric Crane Co., 85 Liberty, New York. Works, Muskegon, Mich. (See adv. index & branch offices, end of book)

Shriver, T. & Co., 333 E 56th, New York

SPEIDEL, J. G. (Hand Power Traveling), Buttonwood & Gordon, Reading, Pa. (See adv. index, end of book)

TUOHY BROS. CO., 95 Liberty, New York. (See adv. index, end of book)

WHITING FOUNDRY EQUIPMENT Co. (Hand Power, Traveling, etc.), Harvey, Ill. (See adv. index & branch offices, end of book)

Cranes (Hydraulic)

Alliance Machine Co., Alliance, Ohio.
Chambersburg Engineering Co., Chambersburg, Pa.

Lewis Foundry & Machine Co., 1001 Bingham, Pittsburg, Pa.
Mackintosh-Hemphill & Co. (Ltd.), ft 12th, Pittsburg, Pa.

Morgan Construction Co., Worcester, Mass.

MORGAN ENGINEERING CO., Alliance, O. (See adv. index, end of book)

Ridgway, Craig & Son Co. (Direct Self Acting, etc.), Coatesville, Pa.

Scalfe Foundry & Machine Co. (Ltd.), 28th & Smallman, Pittsburg, Pa.

Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Philadelphia, Pa.

Tod, Wm. Co. (Direct Self-acting, etc.), Youngstown, O.

United Engineering & Foundry Co. (Jib, Whip, etc., for Rolling Mills), Farmers' Bank Bldg., Pittsburg, Pa.

WATSON-STILLMAN CO., 26 Cortland st., New York. (See adv. index, end of book)

WHITING FOUNDRY EQUIPMENT Co., Harvey, Ill. (See adv. index & branch offices, end of book)

Wood, R. D. & Co. (Jib, Bracket, Tower, etc.), 400 Chestnut, Phila., Pa.

WRIGHT WIRE CO., Worcester, Mass.

Cranes (Jib)

Alliance Machine Co. (Hydraulic & Electric), Alliance, Ohio

American Machine & Mfg. Co. (Hand Power), Cleveland, O.

Box, Alfred & Co., 813 N Front, Phila., Pa.

BROWN HOISTING MACHINE CO., St. Clair, N E, Cleveland, O., & 26 Cortlandt, New York. (See adv. index, end of book)

Byram & Co. (Inc.) (Hand Power), 435 Guoln, Detroit, Mich.

CANTON FOUNDRY & MACHINE CO. (Wood, with Iron Fixtures), Canton, O. (See adv. index, end of book)

CASE MFG. CO. (BELT, HAND POW-er & Electric), St. Clair & Curtis avs., Columbus, O. (See adv. index, end of book)

Cleveland Crane & Car Co. (Hand & Electric), Wickliffe, O.

Curtis & Co. Mfg. Co. (Pneumatic), St. Louis, Mo.

DOBBIE FOUNDRY & MACHINE CO., Main Office & Works, Niagara Falls, N. Y. (See adv. index & branch offices, end of book)

FREVERT MACHINERY CO., 18 Dey, New York. (See adv. on preceding page)

GENERAL PNEUMATIC TOOL CO., Montour Falls, N. Y., & 149 B'way, New York. (See adv. on preceding page)

Interstate Engineering Co., Bedford, O.

Jones & Laughlin Steel Co. (Small Jib Crane or Worm Hoist), Pittsburg, Pa.

Lewis Foundry & Machine Co., 1001 Bingham, Pittsburg, Pa.

Maris Bros., 56th & Gray's av, Phila., Pa.

Morgan Construction Co., Worcester, Mass.

MORGAN ENGINEERING CO (For Rolling Mills, etc.), Alliance, O. (See adv. index, end of book)

Niles-Bement-Pond Co., 111 B'way, New York

North Penn. Iron Co., 3d & Venango, Phila., Pa.

NORTHERN ENGINEERING WORKS. (Electric, Hand & Pneumatic), Detroit, Mich. (See adv. below)

Parker Hoist & Machine Co., 971 N. Francisco av., Chicago, Ill.

Obenberger, John, Co. (Hand Power), Milwaukee, Wis.

Pawling & Harnischfeger (Electric & Hand), 38th & National avs., Milwaukee, Wis.

Quincy-Manchester-Sargent Co., Old Colony bldg, Chicago, Ill., & 114 Liberty, New York

Ridgway, Craig & Son Co., Coatesville, Pa.

Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Philadelphia, Pa.

SHAW ELECTRIC CRANE CO., Muskegon, Mich., & 85, 87, 89 Liberty, New York, N. Y. (See adv. index, end of book)

TUOHY BROS. CO., 95 Liberty, New York. (See adv. index, end of book)

United Engineering & Foundry Co., Farmers' Bank Bldg., Pittsburg, Pa.

WHITING FOUNDRY EQUIPMENT Co. (Hydraulic, Pneumatic, Electric, Steam, Hand, etc.), Harvey, Ill. (See adv. index & branch offices, end of book)

Whitehead & Kales Iron Works, Beecher av & M. C. R. R., Detroit, Mich.

Wood, R. D. & Co. (Hydraulic), 400 Chestnut, Phila., Pa.

*Cranes (Jib, Electric Walking)

CASE MFG. CO., St. Clair & Curtis avs., Columbus, O. (See adv. index, end of book)

*Cranes (Jib, Walking)

WHITING FOUNDRY EQUIPMENT Co., Harvey, Ill. (See adv. index & branch offices, end of book)

Cranes (Ladle)

CASE MFG. CO., St. Clair & Curtis avs., Columbus, O. (See adv. index, end of book)

MORGAN ENGINEERING CO. (Elec-tric), Alliance, O. (See adv. index, end of book)

United Engineering & Foundry Co., Farmers' Bank bldg, Pittsburg, Pa.

WELLMAN-SEEVER-MORGAN CO., Cleveland, & Akron, Ohio. (See adv. index, end of book)

Cranes (Locomotive)

Alliance Machine Co., Alliance, O.

AMERICAN HOIST & DERRICK CO., St. Paul, Minn. (See adv. index & branch offices, end of book)

BROWN HOISTING MACHINERY CO. (Steam), St. Clair, N. E., Cleveland, O., & 26 Cortlandt, New York. (See adv. index, end of book)

Browning Engineering Co., Collinwood, Cleveland, O.

Fairbanks Steam Shovel Co., Marion, Ind.

Interstate Engineering Co., Bedford, O.

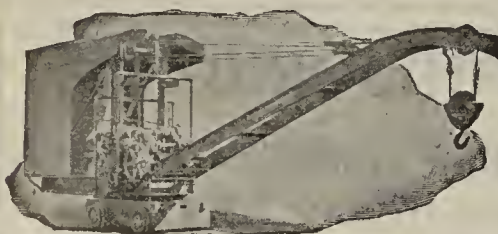
Industrial Works, Bay City, Mich.

Link Belt Co., W. 39th & Stewart av., Chicago, Ill., & 299 B'way, New York

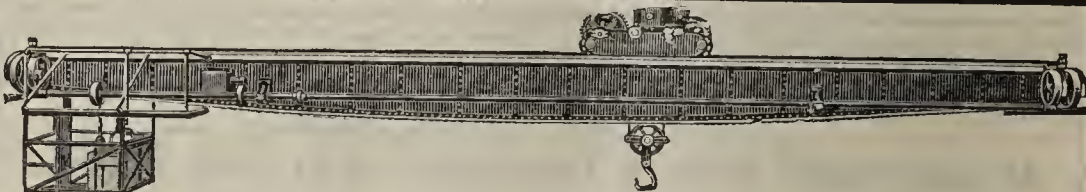
McMyler Mfg. Co., 1799 Columbus road, Cleveland, O.

MORGAN ENGINEERING CO., Alliance, O. (See adv. index, end of book)

NORTHERN ENGINEERING WORKS. 9 Chene, Detroit, Mich. (See adv. below)



Locomotive Crane.



ELECTRIC TRAVELING CRANES.

Hand Power Traveling and Jib Cranes,
 Electric and Steam Locomotive Cranes,
 Electric Hoists, Conveying and Coal Storage, etc.
 Overhead Trolley Systems.

NORTHERN CRANES

NORTHERN ENGINEERING WORKS,
 9 Chene Street, Detroit, Mich., U. S. A.

ELECTRIC TRAVELERS

CRANES OF ALL KINDS

AIR-HOISTS CAPACITIES: 400 TO 40,000 LBS.

WHITING CUPOLAS. 2,000 USED.
ELEVATORS, TUMBLERS, TRUCKS, ETC.

Complete Equipments for Grey Iron, Steel, Malleable,
Car Wheel and Pipe Foundries.

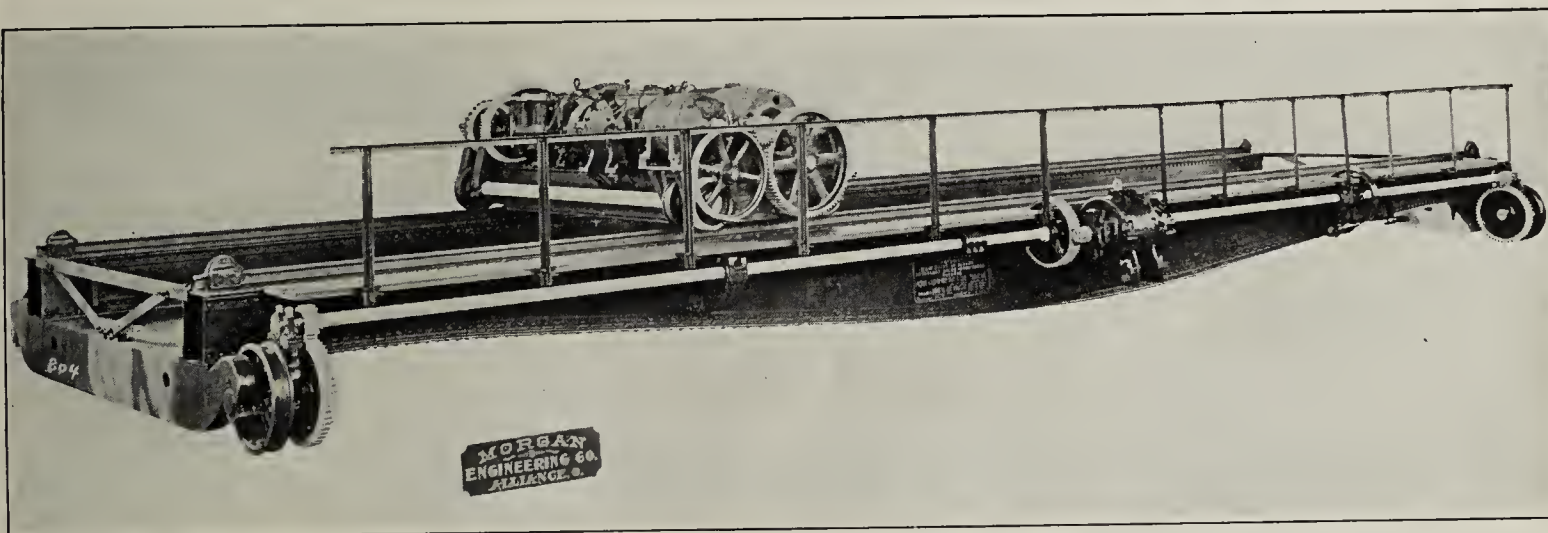
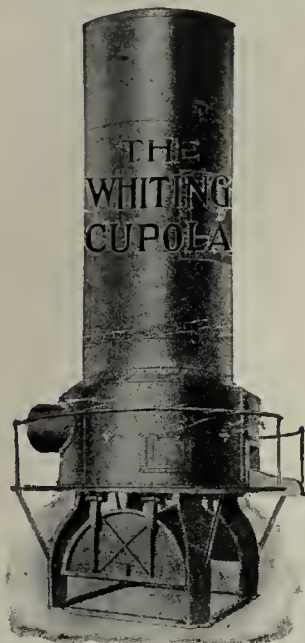
DIRECT CURRENT SOLENOID BRAKES.
CATALOGUE (H) ON REQUEST.

WHITING FOUNDRY EQUIPMENT CO.

Engineers, Designers, Manufacturers,

HARVEY, ILL. (Chicago Suburb), U. S. A.

Highest Award Cupolas, Cranes, Foundry Equipment, St. Louis, 1904



CRANES
OVERHEAD TRAVELING
HIGH AND LOW TYPE
CHARGES.
GANTRY, INGOT STRIPPING
AND
SOAKING PIT CHARGERS
INQUIRIES SOLICITED

MORGAN

STEAM HAMMERS
SHEARS, PUNCHES
RIVETTERS, BENDING AND
FLANGING MACHINES.

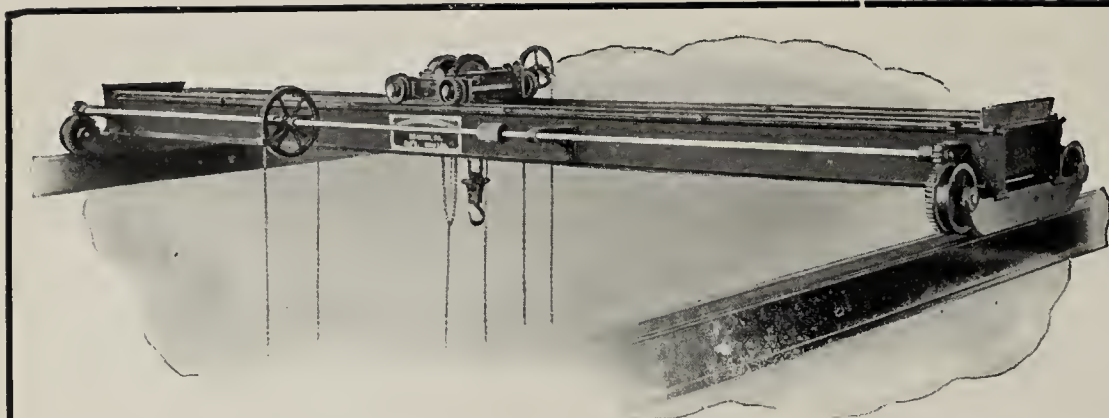
SPECIAL MACHINERY FOR
STEEL WORKS AND ROLLING MILLS
ESTIMATES CHEERFULLY FURNISHED

LARGEST BUILDERS OF TRAVELING CRANES IN THE WORLD

NEW YORK 111 BROADWAY
PITTSBURG FRICK BUILDING
CHICAGO 755 RAILWAY EX.
BRUSSELS 52 RUE DU CONGRES

THE MORGAN ENGINEERING CO.

MAIN OFFICE AND WORKS
ALLIANCE
OHIO, U. S. A.



Hand Power

TRAVELING CRANES JIB CRANES

Overhead Tramways,
Chain Hoists,
Trolleys, Etc.

READING CRANE & HOIST WORKS, Reading, Pa.



SHEPARD CRANES

Are Immune from Dirt

All Gears and Brakes Splash
Oiled

All Bearings Ring Oiled

All Parts Easily Accessible



THE GENERAL PNEUMATIC TOOL COMPANY

NEW YORK
Singer Building

General Office and Works:
MONTOUR FALLS, N. Y.

PHILADELPHIA
Stephen Girard Building

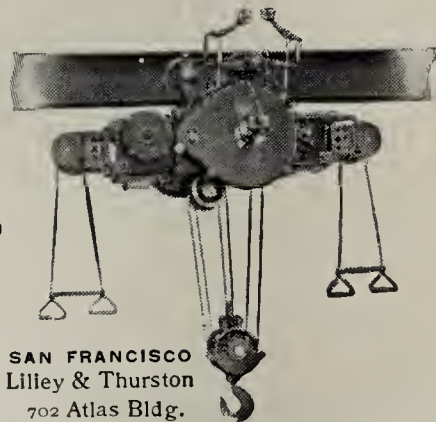
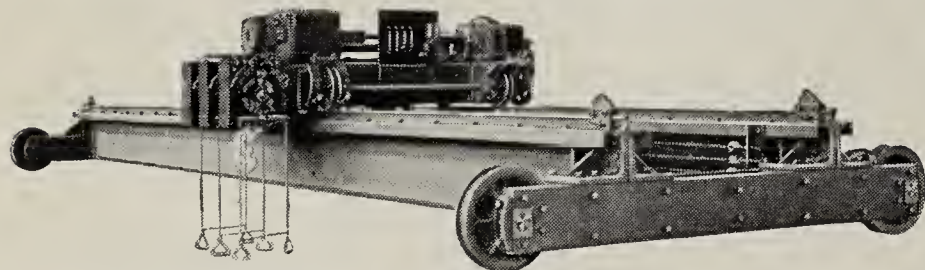
PITTSBURGH
Machesney Building

ELECTRIC and HAND POWER; A C or D C MOTORS

Cranes

and

Hoists



THE CASE MFG. CO., COLUMBUS, OHIO

NEW YORK
McClave, Rimmer & Co.
85 Liberty St.

PITTSBURGH
A. W. Wyckoff Co.
Farmers' Bank Bldg.

CLEVELAND
Chas. E. Stamp & Co.
New England Bldg.

CINCINNATI
Cincinnati Iron Store Co.
Front St.

CHICAGO
F. S. Hickok
Marquette Bldg.

SAN FRANCISCO
Lilley & Thurston
702 Atlas Bldg.

HAND POWER AND ELECTRIC TRAVELING CRANES

ANY LENGTH
OF SPAN

CRANES

1 TO 160
TONS

MACHINE TOOLS OF EVERY DESCRIPTION

TUOHY BROTHERS CO., New York

WELLMAN-SEEVER-MORGAN CO., Cleveland, & Akron, Ohio. (See adv. index, end of book)

WILLIAMS, G. H. CO., 1513 Rockefeller Bldg., Cleveland, O. (See adv. index, end of book)

*Cranes (Locomotive Bucket)

McMyler Mfg. Co., Columbus road, Cleveland, O.
NORTHERN ENGINEERING WORKS, 9 Chene, Detroit, Mich. (See adv. on preceding page)

WILLIAMS, G. H. CO., 1513 Rockefeller Bldg., Cleveland, O. (See adv. index, end of book)

Cranes (Locomotive Water)

(See also Water Columns or Stations, Railroad.)
American Valve & Meter Co. ("Poage's" Automatic), Cincinnati, Ohio

FAIRBANKS, MORSE & CO., Franklin & Monroe, Chicago, Ill. (See adv. index & branch offices, end of book)
Otto Gas Engine Works, 33d & Walnut, Phila., Pa.

Sheffield Car Co., Three Rivers, Mich.
U. S. Wind Engine & Pump Co., Batavia, Ill.

Cranes (Logging)

BALANCED CABLE CRANE CO., The, 135 William, New York. (See adv. opp. last page of Index of Contents)

BROWN HOISTING MACHINERY CO., St. Clair, N. E., Cleveland, O., & 26 Cortlandt, New York. (See adv. index, end of book)

Industrial Works, Bay City, Mich.
Kilgore Machine Co. (Steam, etc.), Minneapolis, Minn.

LIDGERWOOD MFG. CO., 96 Liberty, New York. (See adv. index & branch offices, end of book)

Phoenix Mfg. Co. (Direct Acting Steam), Eau Claire, Wis.

RUSSELL WHEEL & FOUNDRY CO., Detroit, Mich. (See adv. index, end of book)

Cranes (Mail)

Barker Mail Crane Co., Clinton, Ia.
Columbian Mail Crane Co. ("Columbian" Mail), 898 Factory, Columbus, O.

*Cranes (Machine Shop)

CASE MFG. CO., St. Clair & Curtis avs., Columbus, O. (See adv. index, end of book)

NICHOLLS, WM. S., 253 Broadway, New York. (See adv. in next column)

Cranes (Pillar)

Alliance Machine Co., Alliance, O.
Box, Alfred & Co., 813 N. Front, Phila., Pa.

BROWN HOISTING MACHINERY CO., St. Clair, N. E., Cleveland, O., & 26 Cortlandt, New York. (See adv. index, end of book)

CASE MFG. CO., St. Clair & Curtis avs., Columbus, O. (See adv. index, end of book)

CURRIER, CYRUS & SONS, Newark, N. J. (See adv. index, end of book)
Farrel Foundry & Machine Co., Ansonia, Conn.

Industrial Works (for Station Use in Handling Freight), Bay City, Mich.

Interstate Engineering Co., Bedford, O.
McMyler Mfg. Co., 1799 Columbus road, Cleveland, O.

MORGAN ENGINEERING CO., Alliance, O. (See adv. index, end of book)

NORTHERN ENGINEERING WORKS, 9 Chene, Detroit, Mich. (See adv. on preceding page)

Pawling & Harnischfeger, 38th & National avs., Milwaukee, Wis.

Quincy-Manchester-Sargent Co., Old Colony bldg., Chicago, Ill., & 114 Liberty, New York

WHITING FOUNDRY EQUIPMENT Co., Harvey, Ill. (See adv. opp. preceding page; branch offices, end of book)

Cranes (Pneumatic)

CHICAGO PNEUMATIC TOOL CO., Fisher bldg., Chicago, Ill. (See adv. index & branch offices, end of book)

Curtis & Co. Mfg. Co. ("Curtis" Traveling, etc.), 2201 Washington av., St. Louis, Mo.

Dake Engine Co., Grand Haven, Mich.

FREVERT MACHINERY CO., 18 Dey, New York. (See adv. index, end of book)

GENERAL PNEUMATIC TOOL CO. ("Shepard"), Montour Falls, N. Y. (See adv. index & branch offices, end of book)

INGERSOLL-RAND CO., 11 B'way, New York. (See adv. index & branch offices, end of book)

Miles, Geo. Co., Winsted, Conn.
NORTHERN ENGINEERING WORKS, 9 Chene, Detroit, Mich. (See adv. on preceding page)

Quincy-Manchester-Sargent Co. (Hydro-Pneumatic), Old Colony bldg., Chicago, Ill., & 114 Liberty, New York

Ridgway, Craig & Sons Co., Coatesville, Pa.

TUOHY BROS. CO., 95 Liberty, New York. (See adv. index, end of book)

WHITING FOUNDRY EQUIPMENT Co., Harvey, Ill. (See adv. opp. preceding page; branch offices, end of book)

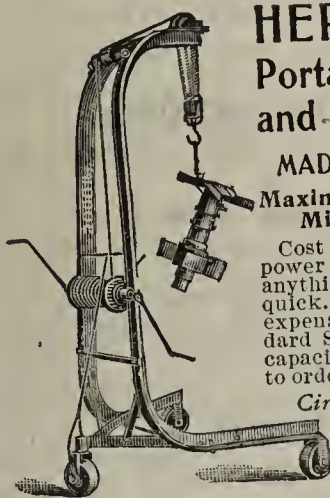
Cranes (Portable)

BALANCED CABLE CRANE CO., The, 135 William, New York. (See adv., opp. last page of Index of Contents)

Franklin Portable Crane & Hoist Co. (All Iron, on Wheels), Franklin, Pa.

Hunt, C. W. Co., New Brighton, New York City

NICHOLLS, WM. S. (Roller Bearing) Wheels, Capacity up to 6,000 lbs., 253 B'way, New York. (See adv. below)



HERCULES Portable Cranes and Hoists

MADE OF STEEL

Maximum Strength Minimum Weight

Cost nominal, earning power great. Picks up anything, moves it quick. Saves time and expensive outfit. Standard Sizes, 1/4 to 3 tons capacity. Special sizes to order.

Circular on Request

William S. Nicholls

253 Broadway

New York

Patented Dec. 19th, 1905.

Ronnd, David & Son, Cleveland, O.

WHITING FOUNDRY EQUIPMENT Co., Harvey, Ill. (See adv. opp. preceding page; branch offices, end of book)

Cranes (Riveting)

Alliance Machine Co., Alliance, Ohio.

CASE MFG. CO., St. Clair & Curtis avs., Columbus, O. (See adv. index, end of book)

Chambersburg Engineering Co., Chambersburg, Pa.

MORGAN ENGINEERING CO., Alliance, O. See adv. index, end of book

NORTHERN ENGINEERING WORKS, Detroit, Mich. (See adv. on preceding page)

Quincy-Manchester-Sargent Co., Old Colony bldg., Chicago, Ill., & 114 Liberty, New York

WHITING FOUNDRY EQUIPMENT Co., Harvey, Ill. (See adv. opp. preceding page; branch offices, end of book)

*Cranes (Rope Driven, Traveling)

LANE MFG. CO. ("Anderson"), Montpelier, Vt. (See adv. opp. this page)

Cranes (Top Braced)

Box, Alfred & Co., 813 N. Front, Phila., Pa.

CASE MFG. CO., St. Clair & Curtis avs., Columbus, O. (See adv. index, end of book)

NORTHERN ENGINEERING WORKS, 9 Chene, Detroit, Mich. (See adv. on preceding page)

WHITING FOUNDRY EQUIPMENT Co., Harvey, Ill. (See adv. opp. preceding page; branch offices, end of book)

Cranes (Tower Riveting)

CASE MFG. CO., St. Clair & Curtis avs., Columbus, O. (See adv. index, end of book)

MORGAN ENGINEERING CO., Alliance, O. (See adv. index, end of book)

Pawling & Harnischfeger, 38th and National avs., Milwaukee, Wis.

Cranes (Transfer & Transfer Tables)

BROWN HOISTING MACHINERY CO., (Tables for Railroads), St. Clair, N. E., Cleveland, O., & 26 Cortlandt, New York. (See adv. index, end of book)

GENERAL PNEUMATIC TOOL CO., Montour Falls, N. Y. (See adv. index & branch offices, end of book)

Industrial Works (For Station Use in Handling Freight), Bay City, Mich.

SHAW ELECTRIC CRANE CO., Muskegon, Mich., & 85, 87, 89 Liberty, New York. (See adv. index & branch offices, end of book)

WHITING FOUNDRY EQUIPMENT Co., Harvey, Ill. (See adv. opp. preceding page; branch offices, end of book)

Cranes (Traveling)

(See also Cranes, Electric Traveling)

American Machine & Mfg. Co., Cleveland, O.

BALANCED CABLE CRANE CO., The, 135 William, New York. (See adv. opp. last page of Index of Contents)

Broomell, Schmidt & Steacy Co., York, Pa.

Byram & Co. (Inc.) (Hand Power), Detroit, Mich.

CASE MFG. CO., St. Clair & Curtis avs., Columbus, O. (See adv. index, end of book)

COBURN TROLLEY TRACK MFG. CO. (Hand Power), Holyoke, Mass. (See adv. index, end of book)

DOBBIE FOUNDRY & MACHINE CO. (Hand Power), Main Office and Works, Niagara Falls, N. Y. (See adv. index and branch offices, end of book)

GENERAL ELECTRIC CO. (Electric), Schenectady, N. Y., & 44 Broad, New York. (See adv. index & branch offices, end of book)

GENERAL PNEUMATIC TOOL CO., Montour Falls, N. Y. (See adv. index, end of book)

Harrington, Edwin Son & Co. (Hand), 17th & Callowhill, Philadelphia, Pa.

Hoist Mfg. & Construction Co., 310 N 17th, Philadelphia, Pa.

Kaltenbach & Griess, Bedford, O.

LANE MFG. CO. ("Anderson" Rope Driven), Montpelier, Vt. (See adv. opp. this page)

Love Bros. (Inc.) (Hand & Power), Aurora, Ill.

MORGAN ENGINEERING CO., Alliance, O. (See adv. index, end of book)

NEW ALBANY MFG. CO. (Single Motor, Electric), New Albany, Ind.

NORTHERN ENGINEERING WORKS, (Electric & Hand), 9 Chene, Detroit, Mich. (See adv. on preceding page)

Pawling & Harnischfeger, 38th & National avs., Milwaukee, Wis.

READING CRANE & HOIST WORKS (Hand Power), Reading, Pa. (See adv. index, end of book)

RUSSELL WHEEL & FOUNDRY CO., Detroit, Mich. (See adv. index, end of book)

SHAW ELECTRIC CRANE CO. (Electric), 85 Liberty, New York. Works, Muskegon, Mich. (See adv. index and branch offices, end of book)

SHAW, WILLIS (New & Second Hand), 171 La Salle, Chicago, Ill. (See adv. index, end of book)

SPEIDEL, JNO. G. (Hand Power), Buttonwood & Gordon, Reading, Pa. (See adv. index, end of book)

Whitehead & Kales Iron Works, Beecher av and M. C. R. R., Detroit, Mich.

Wood, R. D. & Co., 400 Chestnut, Phila., Pa.

*Cranes (Truck)

Cleveland Crane & Car Co., Wickliffe, O.

WHITING FOUNDRY EQUIPMENT Co. Harvey, Ill. (See adv. index & branch offices, end of book)

***Cranes (Warehouse, Portable)**

NICHOLLS, WM. S., 253 Broadway,
New York. (See adv. on preceding page)

Cranes (Water, for Sprinkling Wagons)

Eddy Valve Co., Waterford, N. Y.
Ludlow Valve Mfg. Co. (For Sprinkling Cars,
etc.), Troy, N. Y.

Cranes (Wrecking)

American Car & Foundry Co., 706 Chestnut, St.
Louis, Mo., & 25 Broad, New York
BALANCED CABLE CRANE CO., The,
135 William, New York. (See adv. opp. last
page of Index of Contents)
BROWN HOISTING MACHINERY CO.,
St. Clair, N. E., Cleveland, O., & 26 Cort-
landt, N. Y. (See adv. index, end of book)
Browning Engineering Co., Cleveland, O.
Bucyrus Co., South Milwaukee, Wis.
Cleveland Crane & Car Co. (Hand & Electric),
Wickliffe, O.
FAIRBANKS, MORSE & CO., Frank-
lin & Monroe, Chicago, Ill. (See adv. index
& branch offices, end of book)
Industrial Works, Bay City, Mich.
Interstate Engineering Co., Bedford, O.
Marion Steam Shovel Co., Marion, O.
Mt. Vernon Car Mfg. Co., Mt. Vernon, Ill.

***Crank Indexes**

CROSBY STEAM GAGE & VALVE CO.,
95 Oliver, Boston, Mass. (See adv. index
& branch offices, end of book)

Cranks (Ball)

Cincinnati Ball Crank Co. (Steel), Cincinnati,
Ohio

Cranks (Milling Machine)

Billings & Spencer Co. (Drop Forged), Hart-
ford, Conn.

Crankshafts

AMERICAN BRAKE SHOE & FOUN-
dry Co. (Cast Steel), 170 B'way, New York.
Works & Sales Office: Chicago Heights, Ill.
(See adv. index & branch offices, end of book)
Atlas Forgings Co., Lansing, Mich.
Bethlehem Steel Co. (Nickel Steel, etc.), South
Bethlehem, Pa., & 100 B'way, New York
Block-Poliak Iron Co., First National Bank bldg,
Chicago, Ill., & Carthage, Cincinnati, O.
Boston Forge Co., 340 Maverick, E. B., Boston
Mass
Braeburn Steel Co. (Steel), Braeburn, Pa.
Cambria Steel Co., Johnstown, Pa.
Carbon Steel Co. (Nickel, Steel, etc.), Pittsburg
Pa., & 26 Cortlandt, N. Y.
Carnegie Steel Co., Carnegie bldg, Pittsburg, Pa.
Chester Steel Castings Co. (Cast Steel), Ches-
ter, Pa., & 407 Sansom, Phila., Pa.
Cleveland City Forge & Iron Co., Cleveland, O.
Crescent Forgings Co., Oakmont, Pa.
Crucible Steel Co. of America, Frick bldg
Pittsburg, Pa.
Duquesne Forge Co., Rankin Station, Pa.
Eastern Forge Co., 70 Kilby, Boston, Mass.
Erie Forge Co. (Ltd.), Erie, Pa.
Harrington Forge Co., Erie, Pa.
Helmbacher Forge & Rolling Mills Co., Wain-
wright bldg, St. Louis, Mo.
Jones & Laughlin Steel Co., Pittsburg, Pa.
Midvale Steel Co. (Nickel, Steel, etc.), Main of-
fice & Works, Nicetown, Philadelphia, Pa.
Morris, Herbert, Betz bldg, Philadelphia, Pa.
Penna. Steel Co., Girard bldg, Philadelphia, Pa.
Reading Iron Co., Reading, Pa.
Tindell-Morris Co. (Steam forgings, gas engine
shaft, finished ready for installation), Eddy-
stone, Pa., & Ellwood City, Pa.
Titnsville Forge Co. (Centre Throw), Titnsville
Vulcan Iron Works, Wilkes-Barre, Pa.
Wyman & Gordon (Drop Forged), Worcester
Mass

Crankshafts (Automobile)

(See also Crankshafts; also Forgings, Drop)
Acme Steel & Malleable Iron Works, 245 Mil-
itary rd., Buffalo, N. Y.
ANDERSON FORGE & MACHINE CO.,
271 Guoin, Detroit, Mich. (See adv. index,
end of book)

Atlas Forgings Co., Lansing, Mich.
Billings & Spencer Co., Hartford, Conn.
BLISS, E. W. CO., 19 Adams, Brook-
lyn, N. Y. (See adv. index, end of book)
Brazier Automobile Works, 1811 Fitzwater,
Philadelphia, Pa.
Cambria Forge Co., Johnstown, Pa.
Carpenter Steel Co. (Nickel Chrome Steel),
Reading, Pa.
Columbus Screw & Machine Co., 244 Kaiser,
Columbus, Ohio
Erie Forge Co. (Drop Forge), Erie, Pa.
Gill, P. H. & Sons, Lorraine Ctsego, Brooklyn,
N. Y.
Hussey Drop Forge & Mfg. Co., Axtell opp.
Osage, Cleveland, O.
Leland, W. H., Worcester, Mass.
Massachusetts Steel Castings Co., Everett,
Mass.
Standard Connecting Rod Co., Beaver Falls, Pa.
Tioga Steel & Iron Co., 52d and Gray's av.,
Phila., Pa.
Wyman & Gordon Co., 30 Bradley, Worcester,
Mass.

Crankshafts (Gas Engine)

ANDERSON FORGE & MACHINE CO.,
271 Guoin, Detroit, Mich. (See adv. index,
end of book)
Page-Storms Drop Forge Co., Springfield, Mass.
Tindell-Morris Co. (Finished), Eddystone, Pa.
& Ellwood City, Pa.
Tioga Steel & Iron Co., 52d & Gray's av., Phila.,
Pa.
Union Drop Forge Co., 66 E. Ohio, Chicago, Ill.

Crank Turning Device

Hill Standard Mfg. Co. ("Hill"), Anderson, Ind.

Crayon Mfrs.

(See also Crayons & Pencils, Metal Workers;
also Pencil Mfrs.)

American Crayon Co. (All Kinds for all Pur-
poses), Sandusky, O., & Waltham, Mass.
American Lava Co. (Foundry), Chattanooga,
Tenn.
American Lead Pencil Co. (Colored), 43 W 4th,
New York
American Supply Co. (Lumber), Mobile, Ala.
Binney & Smith Co. (Marking, School & Art-
ists), 81 Fulton, New York
Chrystal, Chas. B. (Metal Workers), 116 John,
New York
Cohutta Talc Co. (Blackboard), Spring Place,
Ga.
DIXON, JOS. CRUCIBLE CO. ("Dix-
on's"), Graphite, Metal Workers' (Colored),
Jersey City, N. J. (See adv. index & branch
offices, end of book)
Doggett, Stanley (Soapstone), 101 Beekman,
New York
Eagle Pencil Co. (Colored), 377 B'way, New
York
Faber, Eberhard (Colored), 299 B'way, New
York
Franklin Crayon Co. (Civil Engineers' & Check-
ing), Rochester, N. Y.
Korn, William (Marking & Lithographic), 120
Centre, New York
Lowell Crayon Co. (Mill & Metal Workers'),
Lowell, Mass.
Nevins, Samuel C. Co. (Importer, French Chalk
& Talc), 109 S 2d, Phila., Pa.
New York Silicate Book Slate Co. (Silicate), 68
Church, New York
North Carolina Talc & Mining Co. (Talc),
Hewitt, N. C.
Standard Crayon Mfg. Co. ("Falcon" Mill),
Danvers, Mass.
Steward, D. M. Mfg. Co. ("Compo," Dustless),
Chattanooga, Tenn.
Van Dyke Copying Co. (Chalk, White & Colors,
Artists), 63 Kinzie, Chicago, Ill.
Zelnicker Crayon Works ("Soapstone", Metal
Workers'), St. Louis, Mo.

***Crayons (Colored)**

DIXON, JOS., CRUCIBLE CO., Jersey
City, N. J. (See adv. index & branch of-
fices, end of book)

Crayons (Mill)

(See Crayon Mfrs.)

***Crayons (School)**

American Crayon Co. (White & Colored), San-
dusky, O., & Waltham, Mass.
DIXON, JOS. CRUCIBLE CO., Jersey
City, N. J. (See adv. index & branch offices,
end of book)

**Crayons & Pencils (Metal Work-
ers', Etc.)**

American Crayon Co., Sandusky, O., & Wal-
tham, Mass.
Chrystal, Chas. B., 184 Water, New York
Cohutta Talc Co. (Talc Soapstone), Spring
Place, Ga.
DIXON, JOS. CRUCIBLE CO. ("Dix-
on's"), Graphite, Jersey City, N. J. (See
adv. index & branch offices, end of book)
Doggett, Stanley (Soapstone Mfrs. Agt.), 101
Beekman, New York
Lowell Crayon Co., Lowell, Mass.
Nevins, Sam'l Co. (Talc & French Chalk),
109 S 2d, Phila., Pa.
North Carolina Talc & Mining Co. (Talc), Hew-
itt, N. C.
Steward, D. M. Mfg. Co. ("Compo"), Chatta-
nooga, Tenn.
Zelnicker Crayon Works (Soapstone), St. Louis,
Mo.

**Creamery Apparatus and Sup-
plies**

(See Creamery Machinery; also Separators,
Cream; also Testers, Creamery, etc.)

Creepers (Anti-Rail)

Beile City Malleable Iron Co. ("L. & S."),
Racine, Wis.
Bryan Mfg. Co. ("Bull-Dog"), Racine, Wis.
National Railway Materials Co. ("Murray"),
90 West, New York
Quincy-Manchester-Sargent Co., Old Colony bldg,
Chicago, Ill., & 114 Liberty, New York

Creosoting Works

(See also Wood Preservatives.)

American Creosoting Works, New Orleans, La.
Atlantic Creosoting & Wood Preserving Works,
Norfolk, Va.
Ayer & Lord Tie Co., Railway Ex. bldg, Chica-
go, Ill.
Colman Creosoting Works, Seattle, Wash.
Eppinger & Russell Co., 66 Broad, New York
Works, Canton, O. (See adv. index & branch
offices, end of book)
International Creosoting & Construction Co.,
Galveston, Tex.
National Lumber Co. (Bridge, Timbers, Ties,
etc.), Fort Worth, Texas
Norfolk Cheosoting Co., Citizens Bank bldg,
Norfolk, Va.
Southern Creosoting Co., Sildell, La.
Taylor, J. W., Summerville, S. C.
West Pascagonla Creosoting Works (E. H.
Bowser), West Pascagoula, Miss.
Wyckoff Pipe & Creosoting Co., Stamford,
Conn., & Portsmouth, Va.

Crestings (Terra Cotta)

(See Roofing, Tile, Terra Cotta.)

Crestings & Finials

AMOS, CHAS., & CO., 74 W Larned,
Detroit, Mich. (See adv. index, end of
book)
Barbee Wire & Iron Works, 44 Dearborn, Chi-
cago, Ill., & Lafayette, Ind.
Barnum, E. T., Wire & Iron Works (Iron),
99-105 Shelby, Detroit, Mich.
BERGER MFG. CO. Main Office &
Works, Canton, O. (See adv. index & branch
offices, end of book)
CINCINNATI MFG. CO., 1243 W 6th
Cincinnati, O. (See adv. index, end of
book)
CITY FORGE & IRON WORKS (An-
drew Plocher, Prop.), Dayton, O. (See adv.
index, end of book)
Creswell, J. S., Iron Works, 23d & Cherry, Phila-
delphia, Pa.
Dearborn Foundry Co., 1525 Dearborn, Chicago,
Ill.
Dickelman Mfg. Co., Forest, O.
Fiske, J. W., 39 Park pl., N. Y.
Gensel, Fred & Co., 911 Vine, Phila., Pa.
Goodwin, F. O., N 53d & Wyalusing, Phila., Pa.

Hecla Iron Works, 118 N 11th, Brooklyn, N. Y.
Howard & Morse, 45 Fulton, N. Y.
JACKSON, WM. H. COMPANY, 29 E
17th (Union sq.), New York. (See adv. index, end of book)

Jones, T. W., 22 Burling sl, New York
Machwirth Bros. Co., 201 Oak, Buffalo, N. Y.
MERRITT & CO., 1024 Ridge av.,
Philadelphia, Pa. (See adv. index, end of book)

Mesker & Bro., 421 S. 6th, St. Louis, Mo.
Mott, J. L. Iron Works, 118 5th av, New York
MULLINS, W. H. CO., Salem, O. (See
adv. index, end of book)

Perkins Mfg. Co., St. Paul, Minn.
PITT, WM. R., Composite Iron
Works, 136 W 24th, New York. (See adv. index, end of book)

SMITH, F. P., WIRE & IRON WORKS,
100 Lake, Chicago, Ill. (See adv. index, end of book)

SNEAD & CO. IRON WORKS, ft of
Pine, Jersey City, N. J. (See adv. index, end of book)

Snow, W. A. Iron Works, 19 Portland, Boston, Mass.

Souther, E. E. Iron Co., St. Louis, Mo.
Thoresen, Wm., 816 N. Western av, Chicago,

UNION EQUIPMENT AND BRONZE CO.
520 W 36th, N. Y. (See adv. outside stencil)

Van Noorden, E. Co., 944 Mass. av, Boston, Mass.

Vinton Steel Works Co., Vinton, Ia.
Westervelt, A. B. & W. T., 102 Chambers, New York

Whyte, Oliver & Co., 17 Cornhill, Boston, Mass.

Crestings & Finials (Sheet Metal)

BERGER MFG. CO., Canton, O. (See
adv. index & branch offices, end of book)

CANTON ART METAL CO., Canton, O.
(See adv. index, end of book)

EDWARDS MFG. CO., Eggleston av,
bet. 4th & 5th, Cincinnati, O. (See adv. index, end of book)

ELLER MFG. CO., CANTON, O.
(See adv. index & branch offices, end of book)

Gara, McGinley & Co., 23 S 17th, Phila., Pa.
Horgert, Theo. E., 384 2d av, New York

INDIANAPOLIS STEEL ROOFING &
Corrugating Co. (Ornamental, Galvanized Steel), Indianapolis, Ind. (See adv. index, end of book)

Jones, T. W., 22 Burling sl, New York
Kanneberg Roofing & Ceiling Co., Canton, O.

Kelley, Wm. J., 448 Adelphi, Brooklyn, N. Y.

MILWAUKEE ARTISTIC METAL
Ceiling Co., Milwaukee, Wis.

MULLINS, W. H. CO., Salem, O. (See
adv. index, end of book)

Cribbage Boards

American Pin Co., Waterbury, Conn.
Hoyt, Jas. L., E. Norwalk, Conn.

Crimping Machines

(See Machines, Crimping.)

Cross Arms, Brackets, Etc. (Steel)

(See also Brackets, Trolley Pole.)

Belmont Iron Works, 2215 Washington av, Philadelphia, Pa.

Brady, T. H., New Britain, Conn.
Creaghead Engineering Co. (Steel), 313 Walnut, Cincinnati, O.

Cutter, Geo., Co. (Iron & Steel), 129 Fulton, Chicago

Electric Railway Equipment Co., 1938 W 8th, Cincinnati, O.

GENERAL ELECTRIC CO., Schenectady, N. Y., & 44 Broad, New York. (See
adv. index & branch offices, end of book)

Hubbard & Co., Pittsburg, Pa.

Lanz, M. & Sons (Steel Angle), 101 S. 29th, Pittsburg, Pa.

Michigan Bolt & Nut Works, Detroit, Mich.

National Tube Co., Pittsburg, Pa.

Ohio Brass Co., Mansfield, O.

Peirce, C. L. Jr. (Steel), 14 S Jefferson, Chicago, Ill.

Philadelphia Electrical & Mfg. Co., 2011 Market, Philadelphia, Pa.

SIMMONS, JOHN CO., 110 Centre,
New York. (See adv. index, end of book)
Western Electric Co., 259 S Clinton, Chicago, & 57 Bethune, N. Y.
WESTINGHOUSE ELECTRIC & MFG.
Co., Pittsburg, Pa. (See adv. index & branch offices, end of book)

Cross Arms, Brackets & Pins (Wood)

(See also Brackets, Trolley Pole.)

Baily Mfg. Co., Elkin, N. C.

Berthold & Jennings, 721 Olive, St. Louis, Mo.

Brownlee & Co., Meridian, Miss.

Central Mfg. Co. (Yellow Pine Brackets, Cross Arms & Pins), Chattanooga, Tenn.

Clark, A. F. (Est. of), Peabody, Mass.

Cohn & Bock (Yellow Pine Cross Arms, Oak Insulator Pins & Brackets) Princess Anne, Md.

Cypress Selling Co., Ltd. (Cross Arms Only), New Orleans, La.

Eccleston Lumber Co. (Yellow Pine Cross Arms), 44 B'way, New York

Endsley, J. W. (Brackets & Pins Only), Somersfield, Pa.

Fletcher Mfg. Co. (Insulated, etc.), Dayton, O.

GENERAL ELECTRIC CO. (Steel),
Schenectady, N. Y., & 44 Broad, New York.

(See adv. index & branch offices, end of book)

Hoskins, J. S. Lumber Co., Baltimore, Md.

Houston & Liggett (Live & White Oak, Gum & Elum Insulator Pins), Lewisburg, Tenn.

Kapp & Miller Co. (Cross Arms, etc.), Rural Hall, N.C.

Lake Yale Lumber Co. (Cross Arms), Grand Island, Fla.

Locke Insulator Mfg. Co. (Insulator Pins, etc.), Victor, N. Y.

Moatz & Carnes (Pins, Cross Arms, etc.), Round Hill, Va.

Noblett, E. J. Co., Peoria & 121st, Chicago, Ill.

Phelan, D. W. (Cross Arms, etc.), 277 B'way, N. Y.

Rinard Lumber Co. (Oak & Locust Brackets & Pins Only), Terra Alta, W. Va.

Southern Exchange Co. (Georgia Pine Cross Arms), 97 Warren, New York

Texas Arm & Pin Co., Beaumont, Tex.

Union Railway Supply Co., Real Estate Trust bldg., Philadelphia, Pa.

Walworth & Neville Mfg. Co. (Cross Arms, Oak Insulated Brackets), 42 Madison, Chicago, Ill.

Western Electric Co. (Cross Arms), 259 S. Clinton, Chicago, Ill., & 57 Bethune, N. Y.

Cross-Arms (Creosoted)

(See Creosoting Works.)

Cross Ties

(See Ties, Poles & Posts.)

*Crosses (Pipe Fitting)

LUNKENHEIMER CO. (Brass), General
Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

Crossings (Railway)

(See also Frogs, Switches, Crossings, etc.)

Ajax Forge Co., 138 E Jackson boul, Chicago, Ill.

Alabama Frog & Switch Co., Anniston, Ala.

American Frog & Switch Co., Hamilton, O.

Barbour-Stockwell Co., Cambridgeport, Mass.

Cleveland Frog & Crossing Co. ("The Lucas"), Cleveland, Ohio

Elliott Frog & Switch Co., East St. Louis, Ill.

Falk Co., Milwaukee, Wis.

INDIANAPOLIS SWITCH & FROG
Co., Springfield, O.

Indianapolis Switch & Frog Co., Springfield, O.

Johnston Railroad Frog & Switch Co., Chester, Pa.

KOPPEL, ARTHUR CO., 68 Broad,
New York. (See adv. index & branch offices, end of book)

Morden Frog & Crossing Works, The Rookery, Chicago, Ill.

N. Y. Switch & Crossing Co., Hoboken, N. J.

Penna. Steel Co. (Steam & Electric), Girard bldg, Philadelphia, Pa.

Petibone, Mulliken & Co., 204 Dearborn, Chicago, Ill.

Ramapo Iron Works, Hillburn, N. Y.

New Jersey Steel Co., Rahway, N. J.

Weir Frog Co., Beech & Highland av, Cincinnati, O.

Wharton, Wm., Jr., & Co. (Inc.), 25th & Washington av, Philadelphia, Pa.

Wonham-Magor Engineering Works (For Industrial Railways), 29 B'way, New York

Crow Bar Mfrs.

Atha Tool Co., Newark, N. J.

Beall Bros. (Inc.) (Pinch or Wedge Point, etc.), Alton, Ill.

Collins Co., Collinsville, Conn., & 212 Water, New York

Doble, Abner Co., San Francisco, Cal.

Evansville Tool Works (Pinch & Wedge Point),
Evansville, Ind.

Falls Mfg. Co., San Francisco, Cal.

Harvey, H. H., 608 Atlantic av, Boston, Mass.

Iron City Tool Works, 32d & Smallman, Pittsburg, Pa.

Kalamazoo Railway Supply Co., Kalamazoo, Mich.

Klein-Logan Co., S. 13th & Breed, Pittsburg, Pa.

Logan Iron & Steel Co., Burnham, Pa., & Harrison bldg., Phila., Pa.

New Castle Forge & Bolt Co., New Castle, Pa.

Pittsburg Tool & Drop Forge Co. ("Cheswick"), Works: Cheswick, Pa.

Pollard, Jos. G., 141 Raymond, Brooklyn, N. Y.

Sweet's Steel Co. (Steel & Cast Steel), Williamsport, Pa.

Union Drop Forge Co., Chicago, Ill.

Vicksburg Mfg. Co., Vicksburg, Mich.

Warwood Tool Co., Wheeling, W. Va.

Crucible Mfrs.

Baker & Co. (Platinum), Newark, N. J.

Berge, J. & H. (Importers), 95 John, N. Y.

Bridgeport Crucible Co., Bridgeport, Conn.

Denver Fire Clay Co. (Jobber), 1742 Champa, Denver, Col.

DIXON, JOS. CRUCIBLE CO. ("Dix-
on's") Black Lead Crucibles & Retorts, Jersey City, N. J. (See adv. index & branch offices, end of book)

Elmer & Amend (Importers), 205 3d av., N. Y.

Gautier, J. H. & Co. (Black Lead), Jersey City, N. J.

Goebel, J. & Co. (Importers), 129 Maiden la, New York

McCullough-Dalzell Crucible Co., 36th & A. V., Pittsburg, Pa.

Ross-Tacony Crucible Co., Robbins c Milnor, Tacony, Phila., Pa.

Seidel, Reuben B. (Inc.), 1334 Callowhill, Phila., Pa.

Taunton Crucible Co. (Pure Ceylon Graphite, Taunton, Mass.

Taylor, Robert J. (Inc.), 1900 Callowhill, Phila., Pa.

Waterbury Crucible Co., Waterbury, Conn.

*Crucibles (Brazing)

DIXON, JOS. CRUCIBLE CO. ("Dix-
on's"), Jersey City, N. J. (See adv. index & branch offices, end of book)

*Crucibles (Graphite)

DIXON, JOS. CRUCIBLE CO., Jersey
City, N. J. (See adv. index & branch offices, end of book)

*Crucibles (Steel)

DIXON, JOS. CRUCIBLE CO., Jersey
City, N. J. (See adv. index & branch offices, end of book)

Crushed Steel for Polishing Granite, Etc.

HARRISON SUPPLY CO. ("Diamond"),
5 & 7 Dorchester ave. Extension, Boston, Mass. (See adv. index, end of book)
Pittsburg Crushed Steel Co. (Ltd.), Westinghouse bldg, Pittsburg, Pa.

Crushed Stone

(See Stone, Crushed.)

Crusher Parts

(See also Castings, Rock Crusher; also Stone Crusher, Parts & Repairs)

AMERICAN BRAKE SHOE & FOUNDRY CO., 170 B'way, New York. Works & Sales Office, Chicago Heights, Ill. (See adv. index, end of book)
 Bethlehem Steel Co., South Bethlehem, Pa.
 Taylor Iron & Steel Co., High Bridge, N. J.

Crushers (Clay)

Adrian Mfg. Co., Adrian, Mich.
 American Clay Machinery Co., Bucyrus, & Willoughby, O.
 Anderson Foundry & Machine Works, Anderson, Ind.
BONNOT COMPANY, Canton, O. (See adv. index, end of book)
 Brewer, H. & Co., Tecumseh, Mich.
 Brunner, Chas., Peru, Ill.
 Eagle Iron Works, Des Moines, Ia.
 Fernholtz Brick Machinery Co., Boyle & Old Manchester avs., St. Louis, Mo.
 Fisher Engine Foundry & Machine Co., Pitts-Freese, E. M. & Co., Galion, O. burg, Pa.
 Frost Mfg. Co., Galesburg, Ill.
 Hogg, Geo. A. Iron & Steel Foundry Co., Pitts-Leader Mfg. Co., Decatur, Ill. burg, Pa.
 Martiu, Henry Brick Machine Mfg. Co., Lancaster, Pa.
 Nebel, M. A., 72 Grand av., Brooklyn, N. Y.
 Newell Mfg. Co., 149 B'way, New York
 Nolan, Madden & Co., Rushville, Ind.
 Ohio Ceramic Engineering Co., Cleveland, O.
 Raymond Bros. Impact Pulverizer Co., 143 Lafflin, Chicago, Ill.
 Raymond, C. W. Co., Dayton, O.
 Schutz-O'Neill Co., Minneapolis, Minn.
SCOTT MFG. CO., St. Louis, Mo.
 Stedman Foundry & Machine Works, Aurora, Stevenson & Co., Wellsville, O. Ind.
STROUD, E. H. & CO., 36 La Salle, Chicago, Ill. (See adv. index, end of book)
 Taplin-Rice & Co., Akron, O.
 Wallace Mfg. Co., Frankfort, Ind.
 West Pulverizing Machine Co., 220 B'way, New York
 Williams Patent Crusher & Pulverizer Co., 2706 N. B'way, St. Louis, Mo.

Crushers (Coal & Coke)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)
 Connellsville Machine & Car Co., Connellsville, Pa.
 Excel Mfg. Co., Pottersville, N. J.
FAIRBANKS, MORSE & CO., Frank-lin & Monroe, Chicago, Ill. (See adv. index & branch offices, end of book)
 Hunt, C. W. Co., 45 B'way, New York. Works: West New Brighton, S. I., N. Y.
JEFFREY MFG. CO., Columbus, O. (See adv. index, & branch offices, end of book)
 Keller, C. M., Columbus, Ind. (book)
 Link Belt Co., W. 39th cor. Stewart av., Chicago, Ill., & 299 B'way, New York.
MEAD-MORRISON MFG. CO., Cam-bridge (Boston), Mass., & 11 B'way, New York. (See adv. index & branch offices, end of book)
 Millholland, J. & J. B. Co., 718 5th av., Pitts-Mullen, Jno. & Son, Shamokin, Pa. burg, Pa.
 Pennsylvania Crusher Co. (Hammer, rotary, etc.), Stephen Girard bldg., Phila., Pa.
 Power & Mining Machinery Co., 52 William, New York. Works: Cudahy, Wis.
 Seutz-O'Neill Co., Minneapolis, Minn.
 Sprout, Waldron & Co. (also Facing), Muncy, Pa.
 Stacey Mfg. Co., Elmwood Pl., Cincinnati, O.
 Stedman's Foundry & Machine Works, Aurora, Ind.
STROUD, E. H. & CO., 36 La Salle, Chicago, Ill. (See adv. index, end of book)
 Vulcan Iron Works, Wilkes-Barre, Pa.
 Wagner-Palmors Mfg. Co., Fairmont, W. Va.

Crushers (Coke)

(See Crushers, Coal & Coke)

Crushers (Corn & Cob)

(See Mills, Corn & Cob.)

*Crushers (Jaw)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

Crushers (Spindle)

Bethlehem Steel Co., South Bethlehem, Pa.

Crushers (Stone)

(See Rock & Ore Crushers.)

Cryolite

Peunsylvania Salt Mfg. Co., 115 Chestnut, Phila., Pa.

Cultivator Attachments

Empire Plow Co., Ensley, Ala., & Cleveland, O.
 Gale Mfg. Co., Albion, Mich.
 Hunt, Helm, Ferris & Co. ("Star"), Harvard, Ill.

Cultivators

AKRON CULTIVATOR CO. (Riding & Walking Pivot-Axle Automatic, also Walk-ing), Akron, O.
 Allbright, Jas. H. & Sons (Riding & Walking), Mufflingburg, Pa.
 Allen, S. L. & Co., Phila., Pa.
 American Harrow Co. (Riding & Walking), Detroit, Mich.
 American Plow Co., Madison, Wis.
 Ames Plow Co., Boston, Mass.
 Arnolds, G. W. Son, Iona, Mich.
 Atlanta Agricultural Works ("Atlanta"), Atlanta, Ga.
 Avery, B. F. & Sons (Riding & Walking), Louisville, Ky.
 Avery Mfg. Co. (Riding & Walking, "Avery Doublet," "Doublet"), Peoria, Ill.
 Babcock Mfg. Co. ("Otsego," Walking, One Horse), Leonardville, N. Y.
 Bacon Mfg. Co. (Garden), Pontiac, Mich.
 Bateman Mfg. Co. (Riding, Walking & Horse Hoe), Grenloch, N. J.
 Belcher & Taylor Agl. Tool Co. (Prouts Hoeing Machine), Chicopee Falls, Mass.
 Bell Specialty Co. (Combined Hoe, Rake & Cultivator), 20 Morris, Jersey City, N. J.
 Bement's, E. Sons (Riding & Walking), Lansing, Mich.
 Benicia Agricultural Works ("Horners"), Benicia, Cal.
 Blount, Henry F. (Walking & Riding), Evansville, Ind.
 Bostwick, Alonzo & Son, Millington, Mich.
 Bradley, David Mfg. Co. ("Dolphin," "New Bradley," "Bradley Vulcan," "Klondike," "Common Sense," "Trojan," "Katy-Did," "Cricket"), Bradley, Ill.
 Bristol & Gale Co. (Hand), 110 Washington Boul., Chicago, Ill.
 Brown, Geo. W. & Co. (Walking & Riding), Galesburg, Ill.
 Brown-Manly Plow Co., Malta, O.
 Brown Mfg. Co. (Riding & Walking), Zanesville, O.
 Bucher & Gibbs Plow Co. (Walking & Beet), Canton, O.
 Buffalo Pitts Co. (Riding & Walking), Buffalo, N. Y.
 Burton Handle Co. (Riding & Walking), Burton, O.
 Caledonia Bean Harvester Works, Caledonia, N. Y.
 Carnegie Plow & Mfg. Co. ("Princess" Garden), Carnegie, Pa.
 Case, J. I. Plow Works (Riding & Walking), Racine, Wis.
 Castille Chilled Plow Co., Castille, N. Y.
 Champion Drill Co., Avon, N. Y.
 Children, E. & Sons (Badger & New Badger), Council Bluffs, Iowa
 Childs, Chas. H. & Co., Utica, N. Y.
 Clipper Chilled Plow Co., Elmira, N. Y.
 Clipper Plow Co. ("Best," "Clipper"), De-fiance, O.
 Clore's, Wm. Sons (Dixie), Rising Sun, Ind.
 Collins Plow Co. (Iowa Riding & Walking Combined), Quincy, Ill.
 Cutaway Harrow Co., Higganum, Conn.
 Deere & Co. (Sugar Cane, also Walking, Riding & Walking & Riding Combined), Moline, Ill.
 Deere & Mansur Co. (Disc), Moline, Ill.
 Dempster Mill Mfg. Co., Beatrice, Neb.
 Deuscher, H. P. Co. (Ideal), Hamilton, O.
 Diats, Hiram Jr. (Kuzler), Pittston, N. J.
 Donaldson Bros. ("Steel King"), Mt. Clemens, Mich.
 Eagle Mfg. Co., Kansas City, Mo.
 Emerson Mfg. Co. ("Emerson," "Diamond," "Standard"), Rockford, Ill.
 Empire Plow Co. ("Empire"), Ensley, Ala., & Cleveland, O.
 Eureka Mower Co. (Spike, Spring & Shovel Tooth, Riding, etc.), Utica, N. Y.

Farm Tool Mfg. Co. (Lister, Disc & Knife, Walking & Riding), Carrollton, Mo.
 Farmers' Handy Wagon Co. (One or Two Row), Saginaw, Mich.
 Farquhar, A. B. Co., Ltd. (Riding & Walking), York, Pa.
 Fountain City Drill Co. (Riding Corn), La Crosse, Wis.
 Fuller & Johnson Mfg. Co., Madison, Wis.
 Gale Mfg. Co. (Riding or Walking, also Walking Tongue & Tongueless, also Flue Tooth, etc.), Albion, Mich.
 Genung, C. W. (Disc & Single & Double Wheel), Gesley Mfg. Co., Beloit, Wis. Madison, O.
 Gowanda Agl. Works (Horse Hoe, etc.), Gowanda, N. Y.
 Grand Detour Plow Co. (Walking & Riding), Dixon, Ill.
 Greenville Implement Co. (Star Shovel), Greenville, Mich.
 Hartford Plow Works (Rowell), Hartford, Wis.
 Hartig-Becker Plow Co. (Up-to-Date), Evansville, Ind.
 Hartman Mfg. Co. (Riding & Walking), Vincennes, Ind.
 Hayes Pump & Planter Co. (Riding & Walking), Galva, Ill.
 Hench & Dromgold Co., Inc. (Riding & Walking), York, Pa.
 Hoke Mfg. Co. (Riding & Walking), South Bend, Ind.
 Howell, R. R. Co. (Champion Riding), Minneapolis, Minn.
 Howland Mfg. Co. (Little Giant Walking), Pontiac, Mich.
 International Harvester Co. of America (Horse Hoe, Steel, etc.), 7 Monroe, Chicago, Ill.; Osborne Plant, Auburn, N. Y.
 Janesville Machine Co., Janesville, Wis.
 Keller Mfg. Co. (New Departure), Sauk Center, Minn.
 Keystone Farm Machine Co. (Riding & Walking), York, Pa.
 Killefer-Griffith Mfg. Co., Los Angeles, Cal.
 King & Hamilton Co. ("Little Boy"), Ottawa, Ill.
 Kingman Plow Co. (Walking & Riding), Peoria, Ill.
 La Crosse Plow Co. (Riding & Walking), La Crosse, Wis.
 Lean, Roderick Mfg. Co. (Riding), Mansfield, O.
 Lehr Agl. Co. (Riding & Walking), Fremont, O.
 Long & Allslatter Co. (Riding, Walking, Tongue & Tongueless), Hamilton, O.
 Lovejoy, H. H. & Son, Cambridge, N. Y.
 McDonald, Wm., Lapeer, Mich.
 Marva Mfg. Co., Marva, Ill.
 Mason, F. C. & Co. ("Banner," Hand, etc.), St. Johns, Mich.
 Mast, P. P. & Co. (Riding & Walking), Springfield, O.
 Mead Hay Press Co., Pueblo, Col. field, O.
 Messenger Mfg. Co. (Steel King Walking), Tattamy, Pa.
 Moline Plow Co. (Tongue Walking, Tongueless Walking, Riding, Combined Walking & Riding, Disc, Lister, etc.), Moline, Ill.
 Monmouth Plow Co. (Riding, Combined, Walking & Tongueless), Monmouth, Ill.
 Monitor Mfg. Co. (Riding), Minneapolis, Minn.
 Moore Plow & Implement Co. (Beet & Garden), Greenville, Mich.
 Moroa Mfg. Co., Moroa, Ill.
 Morrison Mfg. Co., Ft. Madison, Iowa
 National Drill Co., Cambridge City, Ind.
 Ohio Cultivator Co. (Sulky & Walking), Belle-Oue, O.
 Ohio Rake Co. (Riding), Dayton, O.
 Osborne, D. M. & Co. (Horse, Hoe, Steel, etc.), Osler Plow Co., Akron, O. Auburn, N. Y.
 Parlin & Orendorff Co. (Riding, Walking, Disc & One Horse), Canton, O.
 Pattee Plow Co., Monmouth, Ill.
 Patten, Frank C. Co., Sycamore, Ill.
 Pekin Plow Co., Pekin, Ill.
 Peru Plow & Wheel Co. (Riding & Walking), Peru, Ill.
 Racine-Sattley Co. (Walking, Riding & Combined), Springfield, Ill., & Racine, Wis.
 Reed Mfg. Co., Kalamazoo, Mich.
 Richmond Plow Co., Richmond, Ind.
 Rock Island Plow Co. (Riding & Walking), Rock Island, Ill.
 Rockford Implement Co. ("Thompson," Riding & Combined), Rockford, Ill.
 Rockford Mfg. Co. ("Dewey," "Ellwood," "Tiger," "Hiram," "Rockford," "Norman, Jr."), Rockford, Ill.
 Rockford Well Drill Co., Rockford, Ill.
 Rowell, I. B. Co. (Sulky Corn), Menominee Falls, Wis.
 Rude Bros. Mfg. Co. (Riding & Walking), Liberty, Ind.
 St. Joseph Plow Co. (Riding & Walking), St. Joseph, Mo.
 Sechler, D. M. Carriage Co., Moline, Ill.

Shunk Plow Co. (Cultivator & Horse Hoc Combined), Bucyrus, O.
 Smith, D. B. & Co. (Walking), Utica, N. Y.
 South Bend Chilled Plow Co., South Bend, Ind.
 Southern Agricultural Works, Atlanta, Ga.
 Southern Plow Co., Columbus, Ga.
 Spangler Mfg. Co., York, Pa.
 Star Mfg. Co. (Walking), Carpentersville, Ill.
 Sparta Plow Works, Sparta, Ill.
 Standard Harrow Co., Utica, N. Y.
 Swanson Mfg. Co., Blue Rapids, Kan.
 Swanson, T. Mfg. Co. (for Listed Corn, etc.), Shenandoah, Ia.

Syracuse Chilled plow Co., Syracuse, N. Y.
 Tait, F. B. Mfg. Co., Decatur, Ill.
 Thompson, J. & Sons Mfg. Co., Beloit, Wis.
 Toledo Plow Co. (Riding & Walking), Toledo, Ind.
 Tower, J. D. & Sons Co. (Walking & Riding), Mendota, Ill.
 Towers & Sullivan Mfg. Co. ("Little Joe," "Eureka"), Rome, Ga.

U. S. Implement Co., Canton, O.
 Ulrich, F. W., Rock Falls, Ill.
 Van Brunt Mfg. Co., Horicon, Wis.
 Watkins Chilled Plow Co., Watkins, N. Y.
 West & Townsend, Martinsville, O.
 Western Mfg. Co., Kansas City, Mo.
 Whitaker Mfg. Co., 50 S Canal, Chicago, Ill.
 White, E. B. & Bro., Norfolk, Va.
WHITMAN & BARNES MFG. CO., (Riding & Walking), Chicago, Ill. (See adv. index & branch offices, end of book)
 Wood Bros. Steel Self Feeder Co., Des Moines, Ia.

Cultivators (Bean & Corn)

Blue Mfg. Co., Fostoria, O.
 Moline Plow Co. ("Michigan"), Moline, Ill.

Cultivators (Beet)

Allen, S. L. & Co. ("Planet Jr." 2 & 4 row), 1107 Market, Phila., Pa.
 Bateman Mfg. Co. ("Iron Age" 2 row), Grenloch, N. J.
 Bucher & Gibbs Plow Co. ("Imperial" 2 row), Canton, O.
 Deere & Mansur Co. ("Empire" 2 & 4 row), Moline, Ill.
 Empire Plow Co. ("Empire" 2 row), Cleveland, O.
 Gale Mfg. Co. ("Gale" 2 row), Alhion, Mich.
 Moline Plow Co. ("Moline" 2 row Walking, & 4 row Riding), Moline, Ill.
 Moore Plow & Implement Co. ("Moore" 2 row), Greenville, Mich.
 Ohio Cultivator Co. ("Ohio" 2 row), Bellevue, O.
 Parlin & Orendorff Co. ("Canton" 2 row), Canton, Ill.
 Rowell, I. B. Co. ("Rowell" 2 row), Menomonee Falls, Wis.
 Toledo Plow Co. ("Toledo" 2 row), Toledo, O.

Cultivators (Garden)

Allen, S. L. & Co. ("Planet Jr."), 1107 Market, Phila., Pa.
 American Fork & Hoe Co. ("Evans" & "Victor" Hand Cultivators), Cleveland, O.
 Ames Plow Co. ("New Universal" Wheel), Boston, Mass.
 Anderson, J. H. & Co. ("Anderson Boss" Hand), St. Louis, Mo.
 Avery, B. F. & Sons ("Avery" Wheel, Hoe, Plow & Weeder), Louisville, Ky.
 Bacon Mfg. Co. ("Bacon" Wheel), Pontiac, Mich.
 Bateman Mfg. Co. ("Iron Age" Wheel, Hoe, Plow, Weeder), Grenloch, N. J.
 Black, Geo. H. ("Queen") Buchanan, Mich.
 Brinly-Hardy Co. ("Columbia" Wheel, Hoe, Plow & Weeder), Louisville, Ky.
 Brown-Manley Ploy Co. ("Rival" Wheel, Hoe, Plow & Weeder), Malta, O.
 Carnegie Plow & Mfg. Co. ("Apex" Wheel), Carnegie, Pa.
 Coffeyville Implement & Mfg. Co. ("Banner" Disc), Coffeyville, Kan.
 Crescent Forge & Steel Co. (Wheel), Havana, Ill.
 Deere & Mansur Co. ("McGee" Wheel, Hoe, Plow & Weeder), Moline, Ill.
 Deuscher, H. P. Co. ("Ideal" Wheel, Hoe, Plow & Weeder), Hamilton, O.
 Gale Mfg. Co., Alhion, Mich.
 Genung, C. W. ("Iron King" Wheel), Madison, O.
 Greenville Implement Co. ("Banner," "Garden King," "Peerless" Wheel), Greenville, Mich.
 Mason, F. C. & Co. ("Banner" Wheel), St. Johns, Mich.

Moline Garden Implement Co. ("Mobile" Garden), Mt. Gilead, O.
 Moore Plow & Implement Co. ("Moore's" Wheel), Greenville, Mich.
 Norcross, C. S. & Sons ("Norcross" Hand), Walnut Grove, Ill.
 Ohio Cultivator Co. ("Climax," "Dexter" Wheel), Bellevue, O.
 Ohio Implement Co. ("Toledo," "Garden King," Wheel, Hoe, Plow & Weeder), Bowling Green, O.
 Parlin & Orendorff Co. ("Canton" Wheel, Hoe, Plow & Weeder), Canton, Ill.
 Peru Plow & Wheel Co. ("Clipper" Wheel), Peru, Ill.
 Prairie Mfg. Co. ("Man Weight" Wheel, Hoe, Plow & Weeder), Indianapolis, Ind.
 Schaihle Mfg. Co. ("Lou Dillon" Wheel), Elyria, O.
 Tenney & Sikking (Inc.) ("Decatur" Wheel), Decatur, Ill.
 Weyburn Co. ("Scott's" Wheel), Rockford, Ill.
 Whitaker Mfg. Co., 50 S Canal, Chicago, Ill.
WHITMAN & BARNES MFG. CO., ("Diamond" Wheel), West Pullman, Chicago, Ill. (See adv. index & branch offices, end of book)

Cupola Linings or Blocks.

Berry, Jas. E., Woodbridge, N. J.
 Brooklyn Fire Brick Works, 88 Van Dyke, Brooklyn, N. Y.
 Buckeye Fire Clay Co., Uhrichsville, O.
 Chicago Retort & Fire Brick Co., 45th & Clark, Chicago, Ill.
 Cooper, Jno., 396 Oakland, Brooklyn, N. Y.
 Denny-Renton Clay & Coal Co., Seattle, Wash.
 Denver Fire Clay Co., 1742 Champa, Denver, Colo.
 Didier-March Co., 15 Park Row, New York, N. Y.
 Evens & Howard Fire Brick Co., 920 Market, St. Louis, Mo.
FISKE & COMPANY (Inc.), 161 Devonshire, Boston, Mass., & Flat Iron bldg, New York. (See adv. index, end of book)
 Garfield Fire Clay Co., Robinson, Pa.
 Gautier, J. H. & Co., Jersey City, N. J.
 Gladding, McBean & Co., San Francisco, Cal.
 Harhison-Walker Refractories Co., Farmers B'k hldg, Pittsburg, Pa., & 1133 B'way, New York
 Howard Co., New Haven, Conn.
 Kier Fire Brick Co., 341 6th av, Pittsburg, Pa.
 Laclede Fire Brick Mfg. Co., Manchester & Sulphur avs, St. Louis, Mo.
 Lincoln Fire Brick & Shape Co., Farmers B'k hldg, Pittsburg, Pa.
 Louisville & Portsmouth Fire Brick Co., Portsmouth, O.
 McLeod & Henry Co. (Steel Mixture), Troy, N. Y.
MAURER, HENRY & SON, 420 E 23d, N. Y.; Pena. hldg, Phila., Pa. Works, Maurer, N. J. (See adv. front inside cover)
 Mutton Hollow Fire Brick Co., Woodbridge, N. J.

NATIONAL FIRE-PROOFING CO., Fulton hldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)
 National Pyrogranit Co., 17 Battery pl, New York. Works: South River, N. J.
 Ohio Fire Brick Co., Oak Hill, O.
 Ostrander Fire Brick Co., Troy, N. Y., & Ostrander, N. J.
 Parker-Russell Mining & Mfg. Co., St. Louis, Mo.
 Preshrey Stove Lining Co., Taunton, Mass.
 Remmey, Richard Sons Co., 2637 E Cumberland, Phila., Pa.
 St. Louis Vitified & Fire Brick Co., 105 N. 7th, St. Louis, Mo.
 Southern Fire Brick & Clay Co., 138 Wash'n Chicago, Ill. Works, Mt. Silica, Ind.
 Superior Fire Lining Co., Trenton, N. J.
 Tygart Fire Brick Co., Fullerton, Ky.
 Valentine, M. D. & Bro. Co., Woodbridge, N. J.
WHITING FOUNDRY EQUIPMENT Co., Harvey, Ill. (See adv. index & branch offices, end of book)
 Wynn, W. H. & Co., Blue Ball, Pa.

Cupolas (Foundry)

Bigelow Co., New Haven, Conn.
 Byram & Co. (The Colliau), 435 Guoin, Detroit, Mich.
 Casey & Hedges Mfg. Co., Chattanooga, Tenn.
 Hibbs, E. A., 209 Quarry, Phila., Pa.
 McNeil, Jas. & Bro. Co., 29th & A. V. Ry., Pittsburg, Pa.
 Means & Fulton Iron Works, Birmingham, Ala.

NORTHERN ENGINEERING WORKS, Detroit, Mich. (See adv. index, end of book)
 Ohermayer, S. Co., 647 Evans, Cincinnati, O.
 Paxson, J. W. Co. ("The Paxson-Colliau"), 1021 N. Delaware av, Phila., Pa.
 Riter-Conley Co., 59 Water, Pittsburg, Pa., & 111 B'way, New York
 Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Phila., Pa.

SMITH, J. D. FOUNDRY SUPPLY CO., 1581 Columbus rd, N. W., Cleveland, O. (See adv. index, end of book)

Sotter Bros., Pottstown, Pa.
 Stewart, C. Boiler Works, Worcester, Mass.
WHITING FOUNDRY EQUIPMENT Co., Harvey, Ill. (See adv. index & branch offices, end of book)

Cups (Elevator)

Clark, W. J. Co., Salem, O.
 Nordyke & Marmon Co. (Tin & Sheet Iron), Indianapolis, Ind.
 Taylor Iron & Steel Co., High Bridge, N. J.

Cups (Force, Rubber)

Gutta Percha & Rubber Mfg. Co., 126 Duane, New York
 Hodgman Rubber Co., 806 B'way, New York
 Johnson, Wm. (Hedenberg Works), (Elastic), Newark, N. J.
 Morgan & Wright (Inc.), (Plumbers'), 226 Jefferson av, Detroit, Mich.
 National India Rubber Co., Bristol, R. I.

Cups (Leather)

Houghton, E. F. & Co. ("Vici" Hydraulic, etc.), 240 Somerset, Phila., Pa.
 Page Belting Co., Concord, N. H.
 Schieren, Chas. A. & Co., 30 Ferry, New York

Cups (Plumbers' Soil)

BERNZ, OTTO, S 13th & S Orange av, Newark, N. J. (See adv. index, end of book)
 Johnson, Wm. (Hedenberg Works), Newark, N. J.

*Cups (Priming)

LUNKENHEIMER CO., General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

Curbs (Valve)

American District Steam Co. (Cast Iron for Steam Underground Work), Lockport, N. Y.

Currycombs

Arcade Mfg. Co. ("New Idea," etc.), Freeport, Ill.
 Jackes-Evans Mfg. Co., St. Louis, Mo.
 Kohler, F. E. & Co., Canton, O.
 New York Stamping Co. ("Reform"), N 11th & Berry, Brooklyn, N. Y.
 Phoenix Hardware Mfg. Co., Homer, N. Y.
 Southington Cutlery Co., Southington, Conn.
 Sundries Mfg. Co., South Bend, Ind.
 Union Furnace Mfg. Co., Union Furnace, Pa.

Curtains (Car)

(See Car Curtains & Materials.)

*Curtains (Locomotive Cab)

CARPENTER, GEO. B. & CO., 202 S Water, Chicago, Ill. (See adv. index, end of hook)

Curtains (Rubber, Bath)

Empire Rubber Co., 115 Worth, New York
 Goodyear India Rubber Glove Mfg. Co., 503 B'way, New York
 Goodyear Rubber Co., 787 B'way, New York
 Hodgeman Rubber Co., 593 B'way, New York

*Curtains (Steel Rolling)

SMITH, F. P. WIRE & IRON WORKS, 100 Lake, Chicago, Ill. (See adv. index, end of book)
WILSON, J. G. MFG. CO., Chief Office, 3 W 29th, New York. Mills & Factory: Norfolk, Va. (See adv. index, end of book)

Cushions (Billiard & Pool Table)

BOSTON BELTING CO., 260 Devon-
shire, Boston, Mass. (See adv. index &
branch offices, end of book)
Morgan & Wright (Inc.), 226 Jefferson av, De-
troit, Mich.

Cuspidors

Aldrich Mfg. Co. (Brass), Buffalo, N. Y.
Atlantic Stamping Co. ("Atlantic," Galvanized
Iron), Rochester, N. Y.
BETHLEHEM FOUNDRY & MA-
chine Co. (Cast Iron), Front, South Bethle-
hem, Pa., & 149 B'way, New York. (See adv.
index, end of book)
Bridgeport Brass Co. (Brass & Self Righting),
Bridgeport, Conn.
Buffalo Mfg. Co. (Brass, etc.), Buffalo, N. Y.
Dayton Supply Co. (Brass, Nickel Self-Right-
ing), Dayton, O.
Donaldson Bros. (Cast Iron), Mt. Clemens, Mich.
Dover Stamping & Mfg. Co. (Cast Iron, Porce-
lain-Lined, Self-Righting; also Tin, Various
colors, Cambridge, Mass.
Excelsior Brass Works, Reading, Pa.
Freeport Novelty Co. ("Nodonta"), Freeport, Ill.
Geuber & Paeschke Mfg. Co. (Japanneled, etc.),
Milwaukee, Wis.
Goodrich, B. F. Co. (Rubber), Akron, O.
Goodyear Rubber Co. (Rubber), 787 B'way,
New York
Gould-Mersereau Co. (Brass), 43 E 19th New
York
Griswold Mfg. Co. (Aluminum), Erie, Pa.
Illinois Pure Aluminum Co. (Aluminum), Le-
mont, Ill.
Ireland & Matthews Mfg. Co. (Brass & Nickel,
Self-Righting), Detroit, Mich.
Lalace & Grosjean Mfg. Co. (Enameled), 19
Cliff, New York
McKenna Bros. Brass Co. (Brass, etc.), Pitts-
burg, Pa.
Manhattan Brass Co. (Brass), 358 E 28th, New
York
Manning, Bowman & Co. (Brass, Nickerled, En-
amel & Tin), Meriden, Conn.
Marletta Holloware & Enameling Co. (Enam-
eled), Marletta, Pa.
Midland Metal Co (Brass, Bronze & Plated),
1427 Catherine, Phila., Pa.
Rochester Stamping Co., Rochester, N. Y.
Shepard, Sidney & Co. (Aluminum, Buffalo,
N. Y., & 21 Cliff, New York
Sweeney, W. H. Mfg. Co. (Nickerled, Brass &
Tin & Self-Righting, etc.), Brooklyn, N. Y.
Thompson, C. C. Pottery Co. (Porcelain), East
Liverpool, O.
Vogel, Wm. & Bros. (Nickel Plated Steel &
Copper with Removable Hopper), 37 S 9th,
Brooklyn, N. Y.
Wagner Mfg. Co. (Aluminum), Sidney, O.
Weller Hardware & Foundry Co., Horseheads,
N. Y.

Cutlery Mfrs.

Acme Shear Co. (Shears, Scissors, etc.), Bridge-
port, Conn.
American Cutlery Co. (Table Cutlery), 193
Mather, Chicago, Ill.
American Shear & Knife Co. (Pocket Cutlery
Shears, etc.), Hotchkissville Conn.
American Silver Co. (Table Cutlery), Bristol,
Conn.
AMERICAN TAP & DIE CO. (Carvers,
Table Knives, Silver Plated, etc.), Green-
field, Mass. (See adv. index, end of book)
Bannister, A. F. & Co. (Pocket, etc.), Newark,
Bison Mfg. Co., Little Valley, N. Y.
Booth, Chas., Stockholm, N. J.
Camillus Cutlery Co., Camillus, N. Y.
Canton Cutlery Co. ("O. C. Co." Pocket Knives,
High Grade), Canton, O.
Carrier Cutlery Co., Elmira, N. Y.
Case Bros. Cutlery Co., Kane, Pa.
Case, W. R. & Son Cutlery Co., Little Valley,
N. Y.
Cattaraugus Cutlery Co. (Pocket), Little Valley,
N. Y.
Challenge Cutlery Corporation (Pocket Knives &
Razors), Bridgeport, Conn.
Chatillon, Jno. & Sons (Pocket Knives, "Ful-
ton Brand"), 85 Cliff, N. Y.
Christy Knife Co. (Bread, Cake & Ham
Knives, Kitchen & Druggists' Spatulas &
Lemon Slicers, etc.), Fremont, O.
Clans Shear Co., Fremont, O.
Clayton Bros., Bristol, Conn.
Clement Mfg. Co., Northampton, Mass.
Clyde Cutlery Co. (Butcher, Bread & Kitchen
Knives, etc.), Clyde, O.
Crescent Mfg. Co., Fremont, O.
Cronk & Carrier Mfg. Co., Elmira, N. Y.

Divine, Dwight & Son (Pocket & Fine Pen
Knives), (Trade Mark, "Ulster Knife Co."
& "Ellenville Knife Co."), Ellenville,
N. Y.
Empire Knife Co. (Pocket Cutlery), Winsted,
Conn.
Empire State Cutlery Co., Allegany, N. Y.
Foster Bros. & Chatillon Co. (Pocket, Kitchen
& Butchers' Cutlery), Fulton, N. Y.
Geneva Cutlery Co. ("Razors"), Geneva, N. Y.
Goodell Co. (Carving & Table Cutlery), Antrim,
N. H.
Harrington Cutlery Co. ("Dexter," Butcher,
Cheese, Shoe, Bread & Kitchen, etc.),
Southbridge, Mass.
Heinisch's, R. Sons Co. (Shears, etc.), New-
ark, N. J.
Holley Mfg. Co. (Pocket), Lakeville, Conn.
Humason & Beckley Mfg. Co. (Pocket), New
Britain, Conn.
International Cutlery Co., Fremont, O.
International Silver Co. (Silver Plated, etc.),
Meriden, Conn.
Jackson Knife & Shear Co., Fremont, O.
Kastor, A. & Bros., 109 Duane, New York
Kern, Geo. W. Razor Mfg. Co. (Razors,
Straps & Hones), Little Valley, N. Y.
Kimball, C. J. Co. (Kitchen, Butchers', Shoe
& Drawing Knives, etc.), Bennington,
N. H.
Klein, M. & Bro. ("M.-K. & B." Sun Table &
Pocket), Bridgeport, Conn.
Knickerbocker Hardware Co. (Knives, etc.), 299
B'way, New York. Works: Newark, N. J.
Lamson & Goodnow Mfg. Co. (Table Cutlery,
Carvers, Butchers', Painters', & Druggists'
Knives), Shelbourne Falls, Mass.
Landers, Frary & Clark (Pearl, Ivory & Cellu-
loid Handle Table Cutlery, Carving Sets,
etc.), New Britain, Conn.
Little Valley Knife Association, Little Valley,
N. Y.
Lothrop, H. A. Mfg. Co. (Bread Knives, etc.),
Sharon, Mass.
Matthew, George ("Shoe, Bread, Oyster & Fish
Knives & Peg Awls, etc.), Mansfield, Mass.
Meriden Cutlery Co. (Cheese, Bread, etc.),
Meriden, Conn.
Miller Bros. Cutlery Co. (Pocket, etc.),
Meriden, Conn.
Morris Cutlery Co., Morris Ill.
Napanoch Knife Co. (Pocket), Napanoch, N. Y.
National Cutlery Co. (Shears, Scissors, etc.),
Westmoreland & Boudinot, Phila., Pa.
New York Knife Co. (Pocket Knives & Table
Cutlery), 225 4th av, New York; Works,
Walden, N. Y.
National Cutlery Co., Lawton & M. C. R. R.,
Detroit, Mich.
Northampton Cutlery Co. (Table Cutlery),
Northampton, Mass.
Northfield Knife Co. (Pocket Cutlery, Shears,
etc.), Northfield, Conn.
Novelty Cutlery Co. (Pocket Knives, Razors,
Folding Scissors, Ink Erasers, Dirk Knives,
Letter Openers, Shoe Buttoners, Scalpel
Lances, etc.), Canton, O.
Ontario Knife Co. (also Tools), Franklinville,
N. Y.
Philadelphia Novelty Mfg. Co. Cutlery Novel-
ties, N 13th & Noble, Philadelphia, Pa.
Robeson Cutlery Co., (Pocket, etc.), Rochester,
N. Y.
Rogers, Wm. A. (Ltd.), Northampton, Mass.
Russell, Jno. Cutlery Co. (Carvers, Table Cut-
lery, etc.), Turners Falls, Mass.
Sehatt & Morgan Cutlery Co. (Pocket Knives,
Razors & Shears), Titusville, Pa.
Schmid, Jno. M. & Sons, Providence, R. I.
Shumate Razor Co. ("Shumate," Razors, etc.),
Austin, Tex.
Silver Plate Cutlery Co. (Electro Silver Plated
Table Cutlery), Derby, Conn.
Smith & Hemmenway Co. (also Importers), 108
Duane, New York City
Sperry & Alexander (also Importers), 300 B'way,
New York City
Tuck Mfg. Co. (Shoe & Banana Knives, etc.),
Brockton, Mass.
Valley Forge Cutlery Co., Newark, N. J.
Wallace, R. & Sons Mfg. Co. (Silver Plated
Table Cutlery, etc.), Wallingford, Conn.
Wilkinson Shear & Cutlery Co. (Butcher &
Carving Knives, etc.), Reading, Pa.
Williams Bros. Mfg. Co. (Silver Plated Table
Cutlery, etc.), Naubuc, Conn.
Wiss, J. & Sons Co. (Shears, Scissors, Razors,
etc.), Newark, N. J.
Woodworth Knife Works, Nunda, N. Y.
Wyoming Cutlery Co., Wilkes-Barre, Pa.

Cut-Outs

(See also Boxes, Junction or Out-Let)
Abbott Mfg. Co., Painesville, O.

American Electric Fuse Co. (Telephone), 116
Nassau, New York
Augusta Electric Co. (The Eclipse for Telephone),
Augusta, Ill.
Auto Electric Shunt Co. (Arc & Incandescent),
West New Brighton, N. Y. C.
Banner Incandescent Electric Co., Youngstown,
Bernard, E. G. Co. (Arc), Troy, N. Y. O.
Bossert Electric Construction Co., Utica, N. Y.
Boston Electric Co. (Battery, etc.), 29 Harrison
av., Boston, Mass.
Brady, T. H. (Arc), New Britain, Conn.
Bryant Electric Co. (Arc & Incandescent),
Bridgeport, Conn.
Clow, Geo. E. & Co. (Incandescent), 72 W
Wasb, Chicago, Ill.
Crescent Electrical Mfg. Co. (Incandescent),
Rochester, N. Y.
D & W FUSE CO. (Entrance, Rail-
way Transformer, etc.), Providence, R. I.
(See adv. index, end of book)
Dale Co. (Incandescent), 22 Thames, N. Y. City
Davis, M. & Sons (Incandescent), Salem, O.
Electric Goods Mfg. Co. (Battery, etc.), 115
Purchase, Boston
Electrical Equipment Co. (The Standard), 526
Court, Reading, Pa.
Electrical Supply Co., Sioux City, Ia.
Foote, Pierson & Co. (Telephone Storage Bat-
tery), 84 Fulton, N. Y.
Fort Wayne Electric Works (Arc & Incan.), Fort
Wayne, Ind.
GENERAL ELECTRIC CO. (Arc &
Incandescent), Schenectady, N. Y., & 44
Broad, New York. (See adv. index & branch
offices, end of book)
General Mfg. & Supply Co. ("Standard Edi-
son"), Trenton, N. J.
Gleason, E. P. Mfg. Co. (Incandescent), 37
Murray, New York
Harvard Electric Co. (Fusible), 60 W Van
Buren, Chicago
Holtzer-Cabot Electric Co. (Battery, etc.),
Brookline, Mass.
Howard Electric Co., 224 S Clinton, Chicago,
Ill.
Johns, H. W.-Manville Co. ("Noark"), 100 Wil-
liam, New York
Knowles, Chas. S. (Incandescent), 7 Arch, Bos-
ton, Mass.
Lundin Electric & Machine Co. (Arc, with
Hood, Ringer & Insulated Hanger), 10
Thacher, Boston, Mass.
Marshall Electric Mfg Co. (Ceiling, Plug, Main
& Branch), 301 Congress, Boston, Mass.
New England Electric Mfg. Co. (Incandescent),
West Somerville, Mass.
North Electric Co. (Telephone), 157 St. Clair,
Cleveland, O.
Paiste, H. T. Co. (The Edison), 3101 Ludlow,
Phila., Pa.
Partrick, Carter & Wilkins (Battery, etc.), 1231
Callowhill, Phila., Pa.
Pass & Seymour (Porcelain Transformers), Sol-
way, N. Y.
Perkins Electrical Switch & Mfg. Co. (Incand-
escent), Bridgeport, Conn.
Peru Electric Mfg. Co. (Incandescent), Peru, Ind.
Phelps & Sons (Incandescent), Newark, N. J.
Phila. Electrical & Mfg. Co. (Arc & Absolute),
2011 Market, Phila., Pa.
Sterling Electric Co. (Telephone, etc.), Lafay-
ette, Ind.
Stewart, Frank H. Electric Co., 35 N 7th,
Phila., Pa.
Trumbull Electric Mfg. Co. (Edison Plug),
Plainville, Conn., & New York
Wagner Elec. Mfg. Co., 2015 Locust, St. Louis,
Mo.
Western Electric Co. (Arc), 259 S Clinton, Chi-
cago, Ill., & 57 Bethune, New York
WESTINGHOUSE ELECTRIC & MFG.
Co. (Incandescent), Pittsburg, Pa. (See adv.
index & branch offices, end of book)
Wurback, Wm. Electric Mfg. Co. (Arc), 19 S
11th, St. Louis, Mo.

Cutters (Angular)

Becker, Brainard Milling Machine Co., Hyde
Park, Mass.
Brown & Sharpe Mfg. Co., Providence, R. I.
Crough, R. M., Tolland, Conn.
MORSE TWIST DRILL & MACHINE
Co., New Bedford, Mass. (See adv. index,
end of book)
National Twist Drill & Tool Co. ("National"),
Detroit, Mich.
OWEN MACHINE TOOL CO., Spring-
field, O. (See adv. index, end of book)
Pratt & Whitney Co., Hartford, Conn.
Standard Tool Co., Central av & P. Ry., Cleve-
land, O.
Surerus & Greenhill, 109 Racine av, Chicago,
Union Twist Drill Co., Athol, Mass. Ill.

Cutters (Axle)

Butterfield & Co., Derby Line, Vt.
Holroyd & Co., Waterford, N. Y.

Cutters (Belt)

(See Belt Cutting Machines)

Cutters (Boiler Tube)

(See Cutters, Tube)

Cutters (Bolt)

Acme Machinery Co., Cleveland, O.
Boynton & Plummer (Hand & Power), Worcester, Mass.
Brown, H. B. Co. ("Merriman"), East Hampton, Mass.
Chambers Bros. Co., 52d bel Lancaster av, Phila., Pa.
Dedrick & Harvey Machine Co., Baltimore, Md.
Eilers, H. P. Mfg. Co., 26 S Water, Cleveland, O.
Foote, Burt & Co., 4101 St. Clair, Cleveland, O.
Haberle & Graham (Becher Open Die Head), South Bend, Ind.
Howard Iron Works (The "Schlenker"), Buffalo, N. Y., & 130 Liberty, New York
Irving Mfg. & Tool Co. (J. F. McCoy Co., Prop.), 159 Chambers, New York
Landis Tool Co., Waynesboro, Pa.
National Machinery Co., Tiffin, O.
New Haven Mfg. Co., New Haven, Conn.
Niles-Bement-Pond Co., 111 B'way, New York
Pratt & Whitney Co. (Turret), Hartford, Conn.
Putnam Machine Co., Fitchburg, Mass.
Reece, E. F. Co., Greenfield, Mass.
Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Phila., Pa.

Standard Machinery Co. (Single & Double Head), Norwalk, & Bowling Green, O.
Way-Walker Machine Co., Lausling, Mich.
Webster & Perks Tool Co., Springfield, O.
WELLS BROS. CO. ("Little Giant"), Greenfield, Mass. (See adv. index, end of book)
Wiley & Russell Mfg. Co. ("Green River" Hand Bolt Cutter & Nut Tapper), Greenfield, Mass.

Cutters (Bone)

Adams Steel & Wire Works, Joliet, Ill.
Humphrey & Sons, Joliet, Ill.
Mann, F. W. Co. (For Poultry Food), Milford, Mass.
Wilson Bros. ("Crown"), Easton, Pa.
Wilson, I. N. & Son, Cazenovia, N. Y.

Cutters (Bread)

(See also Slicers)

Buffalo Specialty Mfg. Co. (Lightning), Buffalo, N. Y.

Cutters (Brick & Drain Tile)

BONNOT COMPANY (Revolving), Canton, O. (See adv. index, end of book)
Brewer, H. & Co., Tecumseh, Mich.
Freese, E. M. & Co. (Automatic Brick), Gallion, O.
Leader Mfg. Co., Decatur, Ill.

Cutters (Button Hole)

Helmesch's, R. Sons Co., Newark, N. J.
Krauter & Co., 577 18th, Newark, N. J.
National Cutlery Co. ("National"), Westmoreland & Boudinot, Phila., Pa.
Wiss, J. & Sons Co. ("Bauers"), Newark, N. J.

Cutters (Card)

(See Card Cutting Machines; For Page Number Consult Index of Contents.)

Cutters (Cast Iron Pipe)

Ellis-Ford Mfg. Co., Detroit, Mich.
Smith, A. P. Mfg. Co., Newark, N. J.

Cutters (Cigar)

Billings & Spencer Co., Hartford, Conn.
National Selling Co., Allentown, Pa.

Cutters (Cloth)

(See Cutting Machines, Cloth; also Textile Machinery, etc.)

Cutters (Cocoanut)

Hillyard & Co., 75 Fulton, N. Y.

Cutters (Convex & Concave)

Becker, Brainard Milling Machine Co., Hyde Park, Mass.
Brown & Sharpe Mfg. Co., Providence, R. I.
Clough, R. M. Tolland, Conn.
MORSE TWIST DRILL & MACHINE Co., New Bedford, Mass. (See adv. index, end of book)
Pratt & Whitney Co., Hartford, Conn.
Standard Tool Co., Central av & P. Ry., Cleveland, O.
Union Twist Drill Co., Athol, Mass.

Cutters (Corn)

New Process Mfg. Co., Lincoln, Kan.
Rittenhouse, C. & Sons, Norristown, Pa.
Withington & Cooley Mfg. Co., Jackson, Mich.

Cutters (Electric Wire)

Fire Extinguisher Co. (Stecks), 373 Wabash av, Chicago, Ill.
Porter, H. K. ("Boston"), Everett, Mass.
Western Electric Co., 259 S. Clinton, Chicago, Ill. & 57 Bethune, N. Y.
Withington & Cooley Mfg. Co., Jackson, Mich.

Cutters (Ensilage)

Appleton Mfg. Co., Batavia, Ill.
Belle City Mfg. Co., Racine, Wis.
Dick, Jos. Agricultural Works, Canton, O.
Emery, G. J. ("Kendrick"), Fulton, N. Y.
Gehl Bros. Mfg. Co., West Bend, Wis.
Heebner & Sons, Lansdale, Pa.
Messenger Mfg. Co., Tatamy, Pa.
New Winona Mfg. Co., Winona, Minn.
Orangeville Agricultural Works, Orangeville, Pa.
Ross, E. W. Co., Springfield, O.
Rowell, I. B. Co. (With Chain Elevator or Blower), Menominee Falls, Wis.
St. Albans Foundry & Implement Co., St. Albans, Vt.
Silver Mfg. Co. ("Ohio" Power), Salem, O.
Smalley Mfg. Co., Manitowoc, Wis.
Star Mfg. Co. (& Carriers), Carpentersville, Ind.
Warsaw-Wilkinson Co., Warsaw, N. Y.

Cutters (Face Milling)

Becker, Brainard Milling Machine Co. (with Inserted Teeth), Hyde Park, Mass.
Harrison & Knight Mfg. Co. (High Speed Combined Roughing & Finishing), 60 Shipman, Newark, N. J.
MORSE TWIST DRILL & MACHINE Co. (With Inserted Teeth), New Bedford, Mass. (See adv. index, end of book)

Cutters (Feed)

Ann Arbor Machine Co., Ann Arbor, Mich.
Belcher & Taylor Agricultural Tool Co., Chicopee Falls, Mass.
Belle City Mfg. Co., Racine, Wis.
Challenge Co., Batavia, Ill.
Comstock, Geo. S. ("K. D." & "O. K."), Mechanicsburg, Pa.
Dick, Jos. Agricultural Works, Canton, O.
Donaldson Bros., Mt. Clemens, Mich.
Ellis Keystone Agricultural Works ("Keystone" Ensilage & Feed Cutter), Pottstown, Pa.
Farmers Mfg. Co., Sebring, O.
Farquhar, A. B. Co., York, Pa.
Freeman, S. & Sons Mfg. Co., Racine, Wis.
Gehl Bros. Mfg. Co., West Bend, Wis.
Glasscock Stove & Foundry Co., Greensboro, N. C.
Globe Foundry & Machine Co. (with or without Blower Elevator), Sheboygan, Wis.
Gowanda Agricultural Works (Hand), Gowanda, N. Y.
Heebner & Sons, Lansdale, Pa.
Hench & Dromgold Co., Inc., York, Pa.
Keystone Farm Machine Co. (Hand or Power), York, Pa.

Lehr Agricultural Co., Fremont, O.
Marcy, R. G. Mfg. Co., Bluffton, Ind.
Marseilles Mfg. Co. (Steam or Horse Power), Marseilles, Ill.
Messinger Mfg. Co. (Hand & Power), Tatamy, Pa.
Moore Plow & Implement Co., Greenville, Mich.
New Winona Mfg. Co., Winona, Minn.
Ohio Implement Co. ("Peerless" Hand Lever), Bowling Green, O.
Papec Machine Co., Lima, N. Y.
Parlin & Orendorff Co., Canton, Ill.

Rittenhouse, C. & Sons, Norristown, Pa.
Ross, E. W. Co., Springfield, O.
Rowell, I. B. & Co., Menominee Falls, Wis.
Sellers, Edw., Oakhall Station, Pa.
Silver Mfg. Co. ("Ohio" Hand & Power Plantation, Salem, O.
Smalley Mfg. Co., Manitowoc, Wis.
Smith, D. B. & Co. (Hay), Utica, N. Y.
Spangler Mfg. Co. ("Little Giant"), York, Pa.
Star Mfg. Co., Carpentersville, Ill.
Westbrooks, J. B. Foundry & Machine Co., Danville, Va.
White, E. R. & Bro., Norfolk, Va.
Williams Bros. (Cheap & Good), Ithaca, N. Y.

Cutters (Fillet Leather)

Milwaukee Foundry Supply Co., Milwaukee, Wis.

Cutters (Flue)

Faessler, J. Mfg. Co., Moberly, Mo.
Lovejoy Tool Works (Hole), 90 Ohio, Chicago, Ill.
MURPHY, CHRISTOPHER & CO. ("O'Neill"), First National Bank bldg, Chicago, Ill. (See adv. index, end of book)
Standard Railway Equipment Co., National Bank of Commerce, bldg, St. Louis, Mo.

Cutters (Fodder)

Aermotor Co., Campbell av., Chicago, Ill.
Appleton Mfg. Co., Batavia, Ill.
Comstock, Geo. S. ("Lion"), Mechanicsburg, Pa.
Dick, Jos. Agricultural Works, Canton, Ill.
Ellis Keystone Agricultural Works ("Keystone" with Crusher Attachment), Pottstown, Pa.
Emeny, G. J., Fulton, N. Y.
Eureka Mower Co. (Hand, etc.), Utica, N. Y.
Harrison, W. R. & Co., Massillon, O.
Messinger Mfg. Co., Tatamy, Pa.
Milwaukee Hay Tool Co., Layton Park, Milwaukee, Wis.
Orangeville Agricultural Works, Orangeville, Pa.
Star Mfg. Co., Carpentersville, Ill.

***Cutters (Formed and Formed Milling)**

MORSE TWIST DRILL & MACHINE Co., New Bedford, Mass. (See adv. index, end of book)
Union Twist Drill Co., Athol, Mass.

Cutters (Gang)

Becker, Brainard Milling Machine Co., Hyde Park, Mass.
MORSE TWIST DRILL & MACHINE Co., New Bedford, Mass. (See adv. index, end of book)
NIAGARA MACHINE & TOOL WORKS, Buffalo, N. Y. (See adv. index, end of book)
Pratt & Whitney Co., Hartford, Conn.
Surerus & Greenhill, 109 Racine av, Chicago, Ill.
Union Twist Drill Co., Athol, Mass.

Cutters (Gauge Glass)

ASHCROFT MFG. CO., THE, 85, 87, 89 Liberty, New York. Works, Bridgeport, Conn. (See adv. index, end of book)
Bonney Vise & Tool Works, 3015 Chestnut, Phila., Pa.
Chesterton, A. W. & Co. ("McGregor" Scotch), 64 India, Boston, Mass.
Dicke Tool Co., Downers Grove, Ill.
Hunt, Alex. B. ("Hunt's" for Cutting Gauge Glasses), Scranton, Pa.
LUNKENHEIMER CO., General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

Monce, S. G., Unionville, Conn.
McRae & Roberts Co., Detroit, Mich.
Pancoast, Hy. B. & Co. (Climax), 243 S. 3d, Phila., Pa.
Rogers, H. A. Co. ("Favorite"), 19 John, N. Y.

Cutters (Gear)

(See Gear Cutting Machines.)

Cutters (Glass)

Barrett, W. L., Bristol, Conn.
Bonny Vice & Tool Works, 3015 Chestnut, Phila., Pa.
Brown & Dowd Mfg. Co. (Rolling Steel Wheel, etc.), Meriden, Conn.

Fletcher, Terry & Co. (Interchangeable & Standard Styles), Forestville, Coun.
Goodell-Pratt Co. (with Turret Head), Greenfield, Mass.
Mayhew, H. H. Co., Shelburne Falls, Mass.
Millers Falls Co., Millers Falls, Mass., & New York
Monce, S. G. ("Monce" Steel Wheel), Unionville, Coun.
Smith & Hemmenway Co. ("Red-Devil"), 108 Duane, New York
Stortz, Jno. & Son, 210 Vine, Phila., Pa.

Cutters (Glass Tube)

(See Cutters, Gauge Glass.)

Cutters (Gummer)

Atkins, E. C. & Co. (Inc.), Indianapolis, Ind.
Butterfield & Co., Derby Line, Vt.
Mixer, J. W. Saw Tool Co. ("Mixer's XX"), Plymouth, Mass.

Cutters (Hand Hole)

Chase Turbine Mfg. Co., Orange, Mass.

Cutters (Hog Nose)

Pratt, Wm. E. Mfg. Co. ("Dr. Millers"), 91 Lake, Chicago, Ill.

Cutters (Inserted Teeth)

Becker, Brauward Milling Machine Co., Hyde Park, Mass.
Brown & Sharpe Mfg. Co., Providence, R. I.
MORSE TWIST DRILL & MACHINE
Co. (Face & Side Milling), New Bedford, Mass. (See adv. index, end of book)
Union Twist Drill Co., Athol, Mass.

*Cutters (Interlocking)

MORSE TWIST DRILL & MACHINE
Co., New Bedford, Mass. (See adv. index, end of book)

Cutters (Involute)

Becker, Brainard Milling Machine Co., Hyde Park, Mass.
MORSE TWIST DRILL & MACHINE
Co., New Bedford, Mass. (See adv. index, end of book)
Union Twist Drill Co., Athol, Mass.

Cutters (Iron, Bar & Rod)

(See also Cutters, Rod & Wire)

Buffalo Forge Co. (Angle Iron), Buffalo, N. Y.
Mersick, C. S. & Co., 286 State, New Haven, Conn.

*Cutters (Key-Seating)

OWEN MACHINE TOOL CO., Springfield, O. (See adv. index, end of book)

Cutters (Key-Way)

(See Key Seating Machines; also Milling Machines.)

Cutters (Kraut)

Atkins, E. C. & Co., Indianapolis, Ind.
Kelso & Co., 209 S Clinton, Chicago, Ill.
Landers, Frary & Clark, New Britain, Conn.
National Saw Co., Newark, N. J.
Peck, Stow & Wilcox Co., 27 Murray, New York
Smith's, Jno. E. Sons Co., Buffalo, N. Y.
Tucker & Dorsey Mfg. Co. ("Atkins Queen"), Indianapolis, Ind.

Cutters (Lace Leather)

Braunsdorf-Mueller Co., Elizabeth, N. J.

Cutters (Lead Pipe)

BERNZ, OTTO, S 13th & S Orange av., Newark, N. J. (See adv. index, end of book)
Lord, L. L. Co. ("Lord"), Meadville, Pa.
Saunders, D. Sons, Yonkers, N. Y.
St. Paul Gas Light Co., St. Paul, Minn.
Vanderman Plumbing & Heating Co., Williamstic, Conn.
Walworth Mfg. Co., 132 Federal, Boston, Mass.
Wolverine Brass Works, Grand Rapids, Mich. (end of book)

Cutters (Metal Slitting)

Brown & Sharpe Mfg. Co., Providence, R. I.
Gay & Ward, Athol, Mass.
MORSE TWIST DRILL & MACHINE
Co., New Bedford, Mass. (See adv. index, end of book)
NIAGARA MACHINE & TOOL
Works, Buffalo, N. Y. (See adv. index, end of book)
Pratt & Whitney Co., Hartford, Conn.

Cutters (Milling)

American Die & Tool Co., Reading, Pa.
Becker, Brainard Milling Machine Co., Hyde Park, Mass.
Bickford Drill & Tool Co. (Multiple Spindle), Front & Pike, Cincinnati, O.
Boker, Hermann & Co. ("Novo" Steel), 103 Duane, New York
Brown & Sharpe Mfg. Co. (also Side & Interlocking Side), Providence, R. I.
Cleveland Twist Drill Co., Cleveland, O.
Clough, R. M. (also Gear), Tolland, Conn.
Dwight Slate Machine Co., Hartford, Conn.
Erlandsen, Julius, 172 Centre, New York
Garvin Machine Co., 137 Varick, New York
Harrison & Knight Mfg. Co. (End, Face & Side), 60 Shipman, Newark, N. J.
Hess Machine Works ("Hess"), 2512 Callowhill, Phila., Pa.
Indianapolis Tool & Mfg. Co., Indianapolis, Ind.
Ingersoll Milling Machine Co., Rockford, Ill.
MORSE TWIST DRILL & MACHINE
Co. (for Mitre & Bevel Gears), New Bedford, Mass. (See adv. index, end of book)
National Twist Drill & Tool Co. ("National"), Detroit, Mich.
Newton Machine Tool Works (Inc. (Perforated for Internal Lubrication), 2343 Vine, Phila., Pa.

NUTTALL, R. D. & CO., Pittsburg, Pa. (See adv. index, end of book)
Omega Steel & Tool Co. ("Omega" Steel), Au-sonia, Conn.
OWEN MACHINE TOOL CO., Spring-field, O. (See adv. index, end of book)
Polk, A. J. & Son (also Side Milling), Millersburg, Pa.

Pratt & Whitney Co., Hartford, Conn.
Rogers, Jno. M. Works, Gloucester, N. J.
Standard Tool Co., Central av & P. Ry, Cleveland, O.
Surerus & Greenhill ("Eynon's"), 109 Racine av, Chicago, Ill.
Swaine, F. J. Co., 930 N Main, St. Louis, Mo.
Thurston Mfg. Co. (Jewelers), Providence, R. I.
Union Twist Drill Co. (Inserted Tooth), Athol, Mass.

Cutters (Moulding)

American Steam Pump Co. (Solid Steel), Battle Creek, Mich.
Oldham, Joshua & Sons (Inc.), 112 26th, Brooklyn, N. Y.
Thomson, W. S., 418 W 27th, New York

Cutters (Paper)

(See Paper Cutting Machines)

Cutters (Pinion)

Dwight Slate Machine Co., Hartford, Conn.
Sloan & Chase Mfg. Co. (Automatic), Newark, N. J.

Cutters (Pipe)

(See also Pipe Cutting & Threading Machines)

AMERICAN TAP & DIE CO. (Wheel & Roller Style), Granfield, Mass. (See adv. index, end of book)

ARMSTRONG MFG. CO., Bridgeport, Conn., & 139 Centre, New York. (See adv. below)

Ayes & Co. ("Saunders" Pattern), 57 Ellen, Chicago, Ill.

Barnes Tool Co. ("Genuine Barnes"), New Haven, Conn.

Biggall & Keeler Mfg. Co., Edwardsville, Ill.

Brown, H. B. Co., East Hampton, Conn.

Butterfield & Co., Derby Line, Vt.

Columbia Mfg. Co. ("Headson"), Lafayette, Ind.

Crane Co. (Est. 1855), 519 S Canal, Chicago (See adv. index & branch offices, end of book)

Curtis & Curtis Co., Bridgeport, Conn.

Ellis-Ford Mfg. Co. ("Ellis"), Detroit, Mich.

Hollands Mfg. Co., Erie, Pa.

Johnson Wm. (Hedenberg Works), (Plumbers'), Newark, N. J.

Livermore, Homer F. ("Grant"), 85 Pearl, Boston, Mass.

Mark Mfg. Co., Evanston, Ill.

Oswego Tool Co. ("Saunders Pattern," "Barnes" Improved Three Wheel & Oswego One Wheel, etc.), Oswego, N. Y.

Pancoast, Hy B. & Co. ("Eureka"), 243 S. Reed Mfg. Co., Erie Pa. 3d, Phila., Pa.

RUMSEY & CO. (Ltd.) ("Stanwood"), Three Wheel, Seneca Falls, N. Y. (See adv. index & branch offices, end of book)

Saunders, D. Sons, Yonkers, N. Y.

Smith, A. P. Mfg. Co., Newark, N. J.

TRIMONT MFG. CO. ("Trimo"), Rox-bury, Boston, Mass. (See adv. index, end of book)

Walworth Mfg. Co. (Halls, for Cast Iron Water Mains), 136 Federal, Boston, Mass.

Wells, F. E. & Son Co. ("Wells"), Greenfield, Mass.

Williams Tool Co., Erie, Pa.

*Cutters (Pneumatic)

INGERSOLL-RAND CO., 11 B'way, New York. (See adv. index & branch offices, end of book)

Cutters (Pneumatic Stay-Bolt)

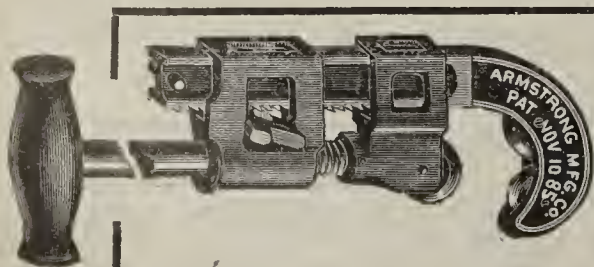
(See Pneumatic Staybolt Cutters.)

Cutters (Rack)

Baker Bros. ("Colburn"), Toledo, O.
Brown & Sharpe Mfg. Co., Providence, R. I.
Gay & Ward, Athol, Mass.
Putnam Machine Co., Fitchburg, Mass.
Reed, F. E. Co., Worcester, Mass.

*Cutters (Radial)

MORSE TWIST DRILL & MACHINE
Co., New Bedford, Mass. (See adv. index, end of book)
Union Twist Drill Co., Athol, Mass.



ARMSTRONG'S PIPE CUTTER

cuts a greater range of sizes than any other cutter on the market. The quickest to adjust, the quickest to cut and last to wear out. If not sold by your dealer write to us for catalogue and prices.

The Armstrong Mfg. Co., 315 KNOWLTON ST., BRIDGEPORT, CONN.

Cutters (Rod & Wire)

Armstrong-Blum Mfg. Co. ("Marvel"), 104 N Francisco av, Chicago, Ill.
 Belden Machine Co., New Haven, Conn.
 Billings & Spencer Co. ("Hayden" Combined Wire Cutter & Gas Pliers, etc.), Hartford, Conn.)
 Braunsdorf-Mueller, Co., Elizabeth, N. J.
 Bridgeport Hardware Mfg. Co. ("The Jumbo"), Bridgeport, Conn.
 Chandler & Farquhar Co., 36 Federal, Boston, Mass.
 Cronk & Carrier Mfg. Co. ("Cronk" Wire Cutter & Bender), Elmira, N. Y.
 Hocfer Mfg. Co., Freeport, Ill.
 Kilborn & Bishop Co. ("Drop Forged"), 81 Lloyd, New Haven, Conn.
 King, J. M. & Co. ("Button's"), Waterford, N. Y.
NIAGARA MACHINE & TOOL
 Works, Buffalo, N. Y. (See adv. index, end of book)
 Oliver, W. W. Mfg. Co. (Jewelers, etc.), 1483 Niagara, Buffalo, N. Y.

Cutters (Roll Paper)

Hilts Wrench & Mfg. Co. ("New York," "Eclipse" & "Reversible"), Richford, N. Y.
 West Mfg. Co., Columbus, O.

Cutters (Root)

Abbe Engineering Co., 220 B'way, New York
 Donaldson Bros., Mt. Clemens, Mich.
 Greenville Implement Co., Greenville, Mich.
 Lane Bros. Co. ("Lane's"), Poughkeepsie, N. Y.
 Silver Mfg. Co. ("Rapid"), Salem, O.
 Whitehurst, R. W. Co., Norfolk, Va.

Cutters (Screw Slotting)

Becker, Brainard Milling Machine Co., Hyde Park, Mass.
 Brown & Sharpe Mfg. Co., Providence, R. I.
 Clough, R. M., Tolland, Conn.
 Disston, Hy. & Sons (Inc.), Tacony, Philadelphia, Pa.
MORSE TWIST DRILL & MACHINE
 Co., New Bedford, Mass. (See adv. index, end of book)
 Pratt & Whitney Co., Hartford, Conn.
 Union Twist Drill Co., Athol, Mass.

Cutters (Segment)

Marquette, Jno. N., 507 S Eden, Baltimore, Md.

Cutters (Sheet Metal)

Buffalo Specialty & Mfg. Co. ("Simplex," Fits any Vise), Buffalo, N. Y.

Cutters (Side Milling)

Becker, Brainard Milling Machine Co., Hyde Park, Mass.
 Brown & Sharpe Mfg. Co., Providence, R. I.
 Harrison & Knight (High Speed), 60 Shipman, Newark, N. J.
MORSE TWIST DRILL & MACHINE
 Co. (or Heading Mills also with Inserted Teeth), New Bedford, Mass. (See adv. index, end of book)
 National Twist Drill & Tool Co. ("National"), Detroit, Mich.

OWEN MACHINE TOOL CO., Springfield, O. (See adv. index, end of book)
 Union Twist Drill Co. (With Inserted Teeth, etc.), Athol, Mass.

*Cutters (Solder)

BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)

Cutters (Spiral Mill)

Becker, Brainard Milling Machine Co., Hyde Park, Mass.
 Brown & Sharpe Mfg. Co., Providence, R. I.
MORSE TWIST DRILL & MACHINE
 Co., New Bedford, Mass. (See adv. index, end of book)
 National Twist Drill & Tool Co. ("National"), Detroit, Mich.
OWEN MACHINE TOOL CO., Springfield, O. (See adv. index, end of book)
 Standard Tool Co., Central av & P. Ry., Cleveland, O.
 Union Twist Drill Co., Athol, Mass.

Cutters (Sprocket)

Becker, Brainard Milling Machine Co., Hyde Park, Mass.
 Browne & Sharpe Mfg. Co., Providence, R. I.
MORSE TWIST DRILL & MACHINE
 Co., New Bedford, Mass. (See adv. index, end of book)
 Pratt & Whitney Co., Hartford, Conn.
 Standard Tool Co., Central av & P. Ry., Cleveland, O.
 Union Twist Drill Co., Athol, Mass.

Cutters (Sprue, Foot & Power)

Adams Company ("Steel Tubular"), Dubuque, Ia.
BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)
 Brass Founders' Supply Co. (Hand & Power i Brass Founders), Newark, N. J.
 Gould & Eberhardt (or Gate), Newark, N. J.
 Hilles & Jones Co., Wilmington, Del.
 Middleditch, Benj., Detroit, Mich.
NORTHERN ENGINEERING WORKS.
 (For Brass Founders), Detroit, Mich. (See adv. index, end of book)
PERKINS MACHINE CO., Warren, Mass. (See adv. index, end of book)
SHUSTER, B. F. CO. (Foot & Power),
 New Haven, Conn. (See adv. index, end of book)
 Standard Machinery Co., Providence, R. I.
 Toledo Machine & Tool Co. Toledo, O.

Cutters (Stalk)

Avery, B. F. & Sons (Spiral or Straight Knife), Louisville, Ky.
 Avery Mfg Co. ("Avery," Spiral Knife), Peoria, Ill.
 Bradley, David Mfg. Co., Bradley, Ill.
 Deere & Mansur Co., Moline, Ill.
 Gale Mfg. Co. (Single Row), Albion, Mich.
 Galesburg Coulter-Disc Co. ("Brown"), Galesburg, Ill.
 Lehr Agricultural Co., Fremont, O.
 Moline Plow Co. (Single & Double Row), Moline, Ill.
 Parlin & Orendorff Co., Canton, Ill.
 Peoria Drill & Seeder Co. ("Union"), Peoria, Ill.

Peru Plow & Wheel Co. (Single & Double-Row), Peru, Ill.
 Rock Island Plow Co., Rock Island, Ill.
 St. Alban's Foundry & Implement Co., St. Alban's, Vt.
 St. Joseph Plow Co. (Single & Double Row), St. Joseph, Mo.
 Sterling Mfg. Co., Sterling, Ill.

Cutters (Stay-Bolt)

(See also Pneumatic Staybolt Cutters.)
 Stow Flexible Shaft Co., N 26th & Buttonwood, Philadelphia, Pa.
 Underwood, H. B. & Co., 1023 Hamilton, Philadelphia, Pa.

Cutters (Stocking)

Becker, Brainard Milling Machine Co. (For Involute Gears), Hyde Park, Mass.
 Gould & Eberhardt, Newark, N. J.
MORSE TWIST DRILL & MACHINE
 Co. (For Involute Gears), New Bedford, Mass. (See adv. index, end of book)
 Union Twist Drill Co. (For Gears), Athol, Mass.

Cutters (T-Slot)

Becker, Brainard Milling Machine Co., Hyde Park, Mass.
 Brown & Sharpe Mfg. Co., Providence, R. I.
MORSE TWIST DRILL & MACHINE
 Co., New Bedford, Mass. (See adv. index, end of book)
 National Twist Drill & Tool Co. ("National"), Detroit, Mich.
OWEN MACHINE TOOL CO., Springfield, Mass. (See adv. index, end of book)
 Union Twist Drill Co., Athol, Mass.

Cutters (Tap & Reamer)

Becker, Brainard Milling Machine Co., Hyde Park, Mass.
 Brown & Sharpe Mfg. Co., Providence, R. I.
 Union Twist Drill Co., Athol, Mass.

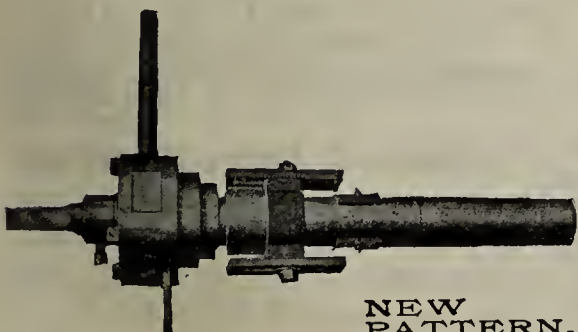
Cutters (Tobacco, Counter)

Enterprise Mfg. Co. ("Enterprise"), Dauphin & 3d, Phila., Pa.
 Erie Specialty Co., Erie, Pa.
 Landers, Frary & Clark ("Lee's"), New Britain, Conn.
 National Novelty Corporation ("Brighton," "Perfection" & "Superior"), 826 B'way, New York
 North Bros. Mfg. Co. ("American," also Shaves), Lehigh av & American, Phila., Pa.
 Peck, Stow & Wilcox Co., Southington, Conn.
 Penn Hardware Co., Reading, Pa.
 Reading Hardware Co., Reading, Pa.
 Wrightsville Hardware Co., Wrightsville, Pa.

Cutters (Tube)

Ayes & Co., 57 Ellen, Chicago, Ill.
 Hayes, Harrison, 41 Cross, Portland, Me.
 Lagonda Mfg. Co. (Boiler Tube Cutters), Springfield, O.
MURPHY, CHRISTOPHER & CO.
 ("O'Neill's" Rapid, Operated by Hand or Motor), First National Bank bldg, Chicago, Ill. (See adv. below)
 Saunders, D. Sons, Yonkers, N. Y.
 Wiedeke, Gustav & Co. ("Wiedeke," "Ideal" & "Dayton" Self-Feed), Dayton, O.

O'Neill Rapid Tube Cutter.



NEW
PATTERN.

Used in Largest Railroad and Contract Shops. Cut five 2-inch tubes per minute on test. Air motor or hand power. Only two tools for all sized tubes, 2 to 4 inches.

WRITE FOR BOOKLET AND PRICES.

CHRISTOPHER MURPHY & CO.,

First Nat. Bank Bldg., CHICAGO.

Cutters (Twist Drill)

Becker, Brainard Milling Machine Co., Hyde Park, Mass.
Browne & Sharpe Mfg. Co., Providence, R. I.
Union Twist Drill Co., Athol, Mass.

Cutters (Vegetable)

American Fork & Hoe Co., Cleveland, O.
Ames Plow Co., Boston, Mass.
Athol Machine Co., Athol, Mass.
Aspinwall Mfg. Co., Jackson, Mich.
Belcher & Taylor, Chicopee, Mass.
Eddy Plough Co., Greenwich, N. Y.
Landers, Frary & Clark, New Britain, Conn.
Mann, F. W. Co., Milford, Mass.
Goodell Co., Antrim, N. H.
Humphrey & Sons, Joliet, Ill.
Rollman Mfg. Co., Mt. Joy, Pa.
Russell & Erwin Mfg. Co., 43 Chambers, New York

Peck, Stow & Wilcox Co., 27 Murray, New York
Silver Mfg. Co. ("Rapid"), Salem, O.
Tucker & Dorsey ("Atkins Queen"), Indianapolis, Ind.

Cutters (Veneer)

(See Veneer Cutting Machines.)

Cutters (Washer & Gasket)

BERNZ, OTTO ("Haggerty" & Registering, etc.), S 13th & S Orange av, Newark, N. J. (See adv. index, end of book)
Bonney Vise & Tool Works, 3015 Chestnut, Phila., Pa.
Braunsdorf-Mueller Co., Elizabeth, N. J.
Cincinnati Tool Co., Norwood, Cincinnati, O.
Goodell-Pratt Co., Greenfield, Mass.
Johnsou, Wm. (Hedenberg Works), Newark, N. J.
Krauter & Co., 577 18th av, Newark, N. J.
McCrea, Jas. & Co. ("Century"), 67 W Washington, Chicago, Ill.
Rose, J. A., Hastings, Neb.
Smith, Otis A. (Washer Cutters Only), Rockfall, Conn.
Stortz, Jno. & Son, 210 Viue, Phila., Pa.

Cutters (Wire)

(See Cutters, Rod & Wire.)

Cutters (Worm Wheel)

Brown & Sharpe Mfg. Co., Providence, R. I.
Union Twist Drill Co., Athol, Mass.

*Cutting Apparatus for Harvesters & Mowers

WHITMAN & BARNES MFG. CO., Chicago, Ill., & Akron, O. (See adv. index & branch offices, end of book)

Cyanide

Braun, F. W., Los Angeles, Cal.
Crooks, Robert & Co., 138 Front, New York
Harrison Bros. & Co. (Inc.) (Cyanide of Soda), 35th & Gray's Ferry rd, Philadelphia, Pa.
Roessler & Hasslacher Chemical Co., 100 William, New York
Washington Cyanide Co., Blewett, Wash.

Cyanide Plants

ALLIS-CHALMERS CO., Milwaukee, Wis. See adv. index & branch offices, end of book
Arizona & Sonora Mfg. Co., Nogales, Arizona
Traylor Engineering Co., 114 Liberty, New York Works: Allentown, Pa.

Cycles (Motor)

(See Motor Cycles)

Cycles (Railway)

(See Cars, Velocipede)

Cyclometers

(See Indicators, Speed.)

Cylinder Re-Boring

Ambrose Machine Co. ("In Position"), Eagle & Provost, Brooklyn, N. Y.
Davidson, Thos. P., 1437 N Watts, Phila., Pa.
Gardner & Carey ("St. John" Cylinder), 30 Broad, Boston, Mass.
Lindstrom, Jno. F., Allentown, Pa.
Mathews, Hugh, Kansas City, Mo.
Reilly & Fearon, 1162 N 3d, Phila., Pa.
Ruwell, W. F., 919 Ridge av, Phila., Pa.
Sherman, R. R. Co., 115 Haverhill, Boston, Mass.
Sykes Engine & Machine Co., 144 N 7th, Phila., Pa.
Underwood, H. B. & Co., 1023 Hamilton, Phila., Pa.
Ward & Upright Engineering Co., 41 York, Brooklyn, N. Y.
Wetherill Bros. Machine Co. (In Position), Chester, Pa.

Cylinder & Tank Shells

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)
Aurora Boiler Works (Inc.), Aurora, Ill.
GRAVER, WM., TANK WORKS, East Chicago, Ind. (See adv. index, end of book)
KOVEN, L. O. & BRO., 50 Cliff, New York. (See adv. index, end of book)
PETROLEUM IRON WORKS CO., Washington, Pa., & Farmers Bank bldg, Pittsburg, Pa. (See adv. index, end of book)
SCAIFE, WM. B. & SONS CO., 221 1st av, Pittsburg, Pa. (See adv. index, end of book)

*Cylinders (Ammonia)

Harrisburg Pipe & Pipe Bending Co. (Anhydrous), Harrisburg, Pa.
SCAIFE, WM. B. & SONS CO., 221 1st av, Pittsburg, Pa. (See adv. index, end of book)

Cylinders (Artesian Well)

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)
FAIRBANKS, MORSE & CO., Franklin & Monroe, Chicago, Ill. (See adv. index & branch offices, end of book)
Mark Mfg. Co., Evanston, Ill.
Myers, F. E. & Bro., Ashland, O.
OIL WELL SUPPLY CO., 215 Water, Pittsburg, Pa. (See adv. index, end of book)
RUMSEY & CO. (Ltd.), Seneca Falls, N. Y. (See adv. index and branch offices, end of book)

*Cylinders (Caisson)

Aurora Boiler Works (Inc.), Aurora, Ill.
PETROLEUM IRON WORKS CO., Washington, Pa., & Farmers' Bank bldg, Pittsburg, Pa. (See adv. index, end of book)
SCAIFE, WM. B. & SONS CO., 221 1st av, Pittsburg, Pa. (See adv. index, end of book)

*Cylinders (Calcium Light)

KOVEN, L. O. & BRO., 50 Cliff, New York. (See adv. index, end of book)
PRESSED STEEL TANK CO., Milwaukee, Wis. (See adv. index, end of book)
SCAIFE, WM. B. & SONS CO., 221 1st av, Pittsburg, Pa. (See adv. index, end of book)

Cylinders (Carbon)

Eastern Carbon Works, Jersey City, N. J.
Western Electric Co., 259 S. Clinton, Chicago, Ill., & 57 Bethune, N. Y.

Cylinders (Carbonic Acid Gas)

BETHLEHEM FOUNDRY & MACHINE Co. South Bethlehem, Pa. (See adv. index, end of book)
Harrisburg Pipe & Pipe Bending Co. (Seamless), Harrisburg, Pa.
SCAIFE, WM. B. & SONS CO., 221 1st av, Pittsburg, Pa. (See adv. index, end of book)

*Cylinders (Cast Iron)

BETHLEHEM FOUNDRY & MACHINE Co. (for Chemical Works, etc.), Front, South Bethlehem, Pa., & 149 B'way, New York. (See adv. index, end of book)

Cylinders (Compress)

Dimmick Pipe Co., Birmingham, Ala.

Cylinders (Creosoting)

Aurora Boiler Works (Inc.), Aurora, Ill.
KOVEN, L. O. & BRO., 50 Cliff, New York. (See adv. index, end of book)
McNeil, Jas. & Bros. Co., 29th & A. V. Ry., Pittsburg, Pa.
Means & Fulton Iron Works, Birmingham, Ala.
REEVES BROS. CO., Alliance, O. (See adv. index, end of book)

Cylinders (Gasoline Engine)

Bessemer Foundry Co., Grove City, Pa.
Trumbull Mfg. Co., Warren, O.

Cylinders (Hardening)

American Clay Machinery Co., Willoughby, O.
Atlas Car & Mfg. Co. (Sand, Lime, Brick, etc.), Cleveland, O.
REEVES BROS. CO. (for Brick, etc.), Alliance, O. (See adv. index, end of book)

Cylinders (Hydraulic)

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)
East Jersey Pipe Co. (High Pressure), 71 B'way, New York
French Oil Mill Machinery Co., Piqua, O.
KOVEN, L. O. & BRO., 50 Cliff, N. Y. (See adv. index, end of book)
Philadelphia Steel & Iron Co. (Atlas Steel), Fkd, Phila., Pa.
Riverside Foundry Co., Cleveland, O.
SCAIFE, WM. B. & SONS CO., 221 1st av, Pittsburg, Pa. (See adv. index, end of book)
Sterritt, Thomas Foundry Co., 32d & Smallwood, Pittsburg, Pa.

*Cylinders (Hydrogen & Oxygen)

KOVEN, L. O. & BRO., 50 Cliff, New York. (See adv. index, end of book)
PRESSED STEEL TANK CO., Milwaukee, Wis. (See adv. index, end of book)
SCAIFE, WM. B. & SONS CO., 221 1st av, Pittsburg, Pa. (See adv. index, end of book)

Cylinders (Rock Drill)

Eastwood Wire Mfg. Co., Belleville, N. J.
KOVEN, L. O. & BRO., 50 Cliff, New York. (See adv. index, end of book)

*Cylinders (Rotary Drying)

REEVES BROS. CO., Alliance, O. (See adv. index, end of book)

Cylinders (Water Jacketed)

Manufacturers' Foundry Co. (For Automobiles, etc.), Waterbury, Conn.

*Cylinders & Shells (Seamless Pressed Steel)

AMERICAN WELL WORKS (& Brass), Aurora, Ill. (See adv. index & branch offices, end of book)
PRESSED STEEL TANK CO. (Cold Drawn), Milwaukee, Wis. (See adv. index, end of book)

Cylinders & Tanks (Seamless)

Avery Stamping Co. ("Never-Break"), Cleveland, O.
Harrisburg Pipe & Pipe Bending Co. (Steel), Harrisburg, Pa.
Janney, Steinmetz & Co. (Cold Drawn Steel), 4th & Walnut, Phila., Pa.
Pressed Steel Tank Co., Milwaukee, Wis.

DECORATIVE ARTS CO.,

Interior Decorators and Furnishers, 527 FIFTH AVENUE,
Cabinet Work, Fine Furniture, Draperies, Rugs and Floor Coverings, Art Metal
Work, Hand Colored Fabrics, Art Glass, Mosaics and in and outdoor Memorials.

Dairy Apparatus & Supplies

(See also specific article required)

American Wooden Ware Mfg. Co. ("Toledo"), Toledo, O.
 Barclay, D. F., Elgin, Ill.
 Burrell, D. H. & Co., Little Falls, N. Y.
 Creamery Package Mfg. Co., Chicago, Ill.
 Cornish, Curtis & Green Mfg. Co., Fort Atkinson, Wis.
 Dairy Machinery & Construction Co., Ansonia, Conn.
 Dobson Mfg. Co., Rockford, Ill.
 Flint Cabinet Creamery Co., Flint, Mich.
 Gowing, D. F., Syracuse, N. Y.
 Ironclad Mfg. Co., 204 Varet, Brooklyn, N. Y.
 Jones, Frank L., Utica, N. Y.
 Miller-Tyson Co., Canton, O.
 Moisley & Pritchard Mfg. Co., Clintou, Ia.
 Palmer, H. H., Rockford, Ill.
 Oakes & Burger, Cattaraugus, N. Y.
 Reid, A. H. Creamery & Dairy Supply Co., 30th & Market, Phila., Pa.
 Sharples Separator Co., West Chester, Pa.
 Stoddard Mfg. Co., Rutland, Vt.
 Vermont Farm Machine Co., Bellows Falls, Vt.

Damp Course.

ACME ASPHALT ROOFING MFG. CO.
 ("Eagle" Brand Asphalt), 65 Mallory av., Jersey City, N. J. (See adv. index, end of book)

Barrett Mfg. Co., Land Title bldg, Phila., Pa.
 Bird, F. W. & Son ("Paroid"), East Walpole, Mass.
 Boorman, T. Hugh, Lafayette & 173d, New York
 Clarke, Wm. Wirt & Son (Mfrs.' Agents), Monument & Forrest, Baltimore, Md.
 Drehmann Paving Co., 262 Parish, Phila., Pa.
 Patent Vulcanite Roofing Co. ("Vulcanite"), 25 S Campbell av., Chicago, Ill.
 Simpson Bros. Corporation, 166 Devonshire, Boston
 Simpson Co., 138 Wash'n, Chicago
 Standard Paint Co. (Ruberoid), 100 William, New York
 Trinidad Asphalt Mfg. Co., 320 S 21st, St. Louis, Mo.
 Vulcanite Paving Co., 114 Liberty, N. Y.

Damp Proofing Compounds

(See Componds Damp Resisting)

Dampers (Coke Oven)

Helmick Foundry & Machine Co., Fairmont, W. Va.

Dampers (Fireplace, Etc.)

Covert, H. W. Co. (The Covert Throat), 266 Greenwich, New York
 Jackson, Edwin A. & Bro. (Dome, Slide & Ratchet & Covert's Throat, etc.), 50 Beekman, N. Y.

*Dampers (Forced Draft)

GREEN FUEL ECONOMIZER CO., Matteawan, N. Y., & 1218 West Street bldg, New York. (See adv. index & branch offices, end of book)

Dampers (Pipe)

Arcade Mfg. Co. ("Arcade"), Freeport, Ill.
 Berged Bros. Co., 231 Arch, Phila., Pa.
 Cheney, S. & Son, Manlius, N. Y.
 Fanner Mfg. Co., Cleveland, O.
 Gray Iron Foundry Co., Reading, Pa.
 Hollands Mfg. Co., Erie, Pa.
 Howes, S. M. Co. ("Yankee" all Steel), 40 Union, Boston, Mass.
 National Novelty Corp., ("Brighton"), 826 B'way, New York
 Peck, Stow & Wilcox Co., 27 Murray, New York
 Pleuger & Henger Mfg. Co., St. Louis, Mo.
 Republic Metal Ware Co., Buffalo, N. Y.
 Sayre Stamping Co. ("Uncle Sam"), Sayre, Pa.
 Wheeling Corrugating Co. ("Wheeling," Cast Iron), Wheeling, W. Va.

*Deafening Materials

CABOT, SAM'L, 141 Milk, Boston, Mass., & 28 Dearborn av., Chicago, Ill. (See adv. index & branch offices, end of book)

Decalcomania Transfers

(See Ornaments, Transfer)

Decorations

Under this heading see sub-classifications:
 For other materials used for decorating, etc., see the following classifications in different parts of the book:

Capitals, Various Kinds.
 Carvers, Stone.
 Carvers, Wood, Classic.
 Ceilings, Steel.
 Floors, Parquet.
 Glass Stainers.
 Grille, Fret & Lattice Work.
 Marble, Art (Scagliola).
 Marble, Interior.
 Memorial Windows.
 Modelers & Sculptors, Architectural
 Mosaic, Various Kinds.
 Mouldings, Various Kinds.
 Ornaments, Various Kinds.
 Papier Mache.
 Plasterers, Ornamental.
 Scenic Artists.
 Sheet Metal Capitals, Borders, Friezes, etc.
 Stucco Work.
 Tiles, Various Kinds.
 Wall Finishes.

Decorations (Carton Pierre)

ARCHITECTURAL DECORATING CO., 643 S Jefferson, Chicago, Ill. (See adv. index, end of book)
 Buehner, A. & Co., 220 N 2d, St. Louis, Mo.
 Cincinnati Plastic Relief Co., Madisonville, O.
DECORATORS' SUPPLY CO., Archer av & Leo, Chicago, Ill. (See adv. index, end of book)
 De Planque, F. R. & Son, 1349 Ridge, Phila., Pa.
 Eastern Ornamental Plaster Co., Brooklyn, N. Y.
EMMEL, CHAS., 383 Albany, Boston, Mass. (See adv. index & branch offices, end of book)
 Liesum, George, 228 E. 24th, New York.
 Marks, W. A. Plaster Ornamental Mfg. Co. 726 W 5th, Cincinnati, O.
 Randolph, Oscar, 32 E 22d New York
SEIFERT, FRANK A., PLASTIC RELIEF Co., 2646 Lawton av., St. Louis, Mo. (See adv. index, end of book)
 Verpellier, H. E. & Co., 288 Washington, Newark, N. J.
 Whitman, J. Franklin Co., 432 N. 12th, Phila., Pa.

Decorations (Church)

Benziger Brothers, 36 & 38 Barclay, New York
 Colgate Art Glass Co. (W. L. Coldwell), 8 Gansevoort, N. Y.
DECORATIVE ARTS CO., 527 5th av., New York. (See adv. index, end of book)
 Dolan, W. J., 181 Tremont, Boston, Mass.
 Geissler, R., 56 W. 8th, New York
 Halbert, Geo. Co., 455 Fulton, Brooklyn, N. Y.
 James, Walter, 123 E 23d, New York.
 Lamb, J. & R. (Inc.), 25 6th av., New York
 Righter & Kolb, 156 5th av., New York
SLEEP, ELLIOTT & KING CO., Inc., 562 W. 23d, New York and 351 Cambridge, Boston, Mass. (See adv. index, end of book)
 Stolzenberg Co., 51 Barclay, N. Y.
 Tiffany Studios, Madison av & 45th st, New York
 Wood Glass Co., 226 N Salina, Syracuse, N. Y.

Decorations (Interior) CALIFORNIA.

LOS ANGELES—Arenz, Richard, 217 E 4th
 Barker Bros. (Inc.)
 California Wall Paper Co., 709 S. B'way.
 De Quelin, R. T., 422 H. W. Hellman bldg
 Graff, A. M., 711 W 6th
 Mead, W. H., 409 E 9th
 Morris, W. W., 505 W. 6th.
 Parker Decorative Co., 452 S Spring
 Volkmer, B., Henne bldg, 102 W. 3d.
PASADENA—Arch'l Ornamental Works
SAN FRANCISCO—Bacigalupi, Prospero, 612 B'way
 Christ & Migeot, 106 Jessie
 Cook's Decorating Co., 410 Sutter.
 Goetze, F. W., 1330 Market.
 Harmuth, Moritz, 315 Maple.
 Jensen, A. P., 308 6th
 Keefe, Jno. H., 824 O'Farrell.
 Kern & Eibach, 1190 Market
 Kreiss, Louis, 303 Sutter
 Kuss, P. N., 638 Mission
 O'Hara & Livermore, 354 Sutter
 Quadt, Jno., 1614 Market.
 Schaefer, Fred, 112 McAllister.
 Smith, Geo. J. & Sons, 121 Geary
 Wagner Bros., 429 Pine.
 Wocker, A. C., 424 Pine.

COLORADO.

DENVER—Adamson & Steuart, 1614 Champa
 Butler, Munson & Butler, 1736 Broadway

Guiry Bros., 1524 Court Pl.
 James, B. L. Mercantile & Mfg. Co., 1517 Arapahoe
 Murphy, Geo. F., 1225 S. Pearl.
 Reitze Wall Paper & Paint Co., 1643 Welton

CONNECTICUT.

BRIDGEPORT—Dawe, Peter, 936 E Main
 Douglas, G. A., 706 Howard av.
 Ellis, Edgar B., 1051 Main
 Goldberg, L. & D., 1482 Main
 Goldberg, S., 1320 Main
 Karle, Frank, 31 Bnnnell
 Morris, A. E., 1272 Iranistan
 Olson & Person, 60 Benham av.
 Phelan, Jerome (Solid & Fresco), 281 State
 Ring, Louis F. (Sculptor & Decorator), 260 John
 Senior Bros., 1365 State
 Wintzer, C. A., 10 Stratfield
EAST HARTFORD—Jessen, Henry A.
DERBY—Hilliker, H. P.
GREENWICH—Newton Decorative Co.
HARTFORD—American Wall Paper Co., 42 Church
 Baxter, Wm. G., 231 Asylum
 Beck, C. E., 302 Asylum (Upholsterer).
 Beckwith, A. F., 39 Ann
 Bonner, Preston Co., 843 Main
 Buckley, Bros. & Co., 10 Ford.
 Crosscup & Valcourt, 318 Trnmbull.
 Fall, Chas., 362 Asylum
 Hawley Bros., 902 Main
 Hoffman, Joseph, 1 Goodman pl.
 Hurwitz, M. & Son, 55 Windsor
 McClunie, J. A., 177 Asylum
 Peplon, J. & Co. (Fresco, etc.), 25 Church
 Root, C. R. (Relief, Plastic, etc.), 104 Asylum
 Root, Frank C., 417 Franklin
 Salting, Paul E., 34 Hndson
 Stevens, Al., 34 Bodwell
 Turner, C. R., 5 Kinsley
 Walker, Robt. & Co., 187 Pearl
 White, J. L., 185 Asylum
 Yergason, Wm. S., 911 Asylum
NEW HAVEN—Collenberg, H. & E., 34 Crown
 Dean, Horatio N., 190 Washington av
 Massari, Menna, 128 Bradley
 Rakieten, M., 320 Congress
WATERBURY—Charters, Jno. F., 245 No. Main
 Lapalme-Hoffman Co., 144 Grand.
 Taylor, A. F. Co. (Fresco, etc.), 43 Center
 Waterbury Decorating Co., 241 N Main

DISTRICT OF COLUMBIA.

WASHINGTON—Barr, Geo. H., 1009 9th, N W
 Brown, Thos. A. & Son, 1417 F. N W
 Clark, Wm. E., 1508 H. N W (Upholsterers)
 Coon, Wm. H., 1307 32d, N W
 Copeland, M. G. Co., 409 11th, N W
 Cutler-Marshall Co., 1210 New York av, N W
 Dieter, Jos. J., 323 B. S E
 Dorrelle, Edw., 1600 14th, N W
 Eastern Decorating Co., 1320 G, N W
 Henderson, Richard W., 1109 F, N W
 Holther, H. C., 1304 F, N W
 Macnichol & Son 428 10th, N W
 Smith & Rupertus, 732 13th, N W
 Strieby, Geo. F. W. & Son, 1114 F. N W
 Strieby, G. M. Co., 3441 Brightwood av
 Stumph & Lyford, 631 Mass. av
 Wurdeman & Co., 610 12th, N W

GEORGIA.

ATLANTA—Atlanta Terra Cotta Co. (Staff & Composition), 6 N Forsyth
 Koppe & Steinichen (Carvers & Modelers), 89 Houston
 Otto, J. W. & Johns Co. (Interior), 2½ Auburn av
 Pierson & Hancock, Grant bldg

ILLINOIS.

CHICAGO—Almini Co., 107 Wabash av
ARCHITECTURAL DECORATING Co., 643 S Jefferson. (See adv. index, end of book)
 Bergquist, G. W. Decorating Co., 850 Evanston av
 Builders & Decorators Mfg. Co. (Inc.), 554 N. Halsted
DECORATORS' SUPPLY CO., Archer av & 2559 Leo av. (See adv. index, end of book)
 Eckart, Wm. Decorating Co., 66 Wabash av
 Erhardt, Geo., 718 W Chicago av
 Galvin John C. Co., 1448 W Madison
 Hartmann, Jno. (Carver, Modeler & Decorator, etc.), 13 N Jefferson
 McCarthy, E. G. & Co., 1704 Wabash av
 Maxwell, S. A. & Co., 430 Wabash av
 Millet, Louis J. (Glass Mosaics, Frescoing, etc.), 169 E Adams
 Mitchel & Halbach, 264 Michigan av

Nelson, Jno. L. & Bro. Co., 1610 Michigan
boul
Nelson, W. P. Co., 241 Michigan av
Neubauer, Adolph Decorating Co. (Fresco),
1420 Michigan
Nyden & Thunander, 82 E 43d
Pick, Jacob E., 112 Clark
Plastic Relief Mfg. Co., 298 N Halsted
Remien Decorating Co., 184 E Indiana
Sachse, Emil O. & Co., 2324 Prairie
Spierling & Linden, 1218 Michigan
Sturdy, J. F., 287 Mich av
Sullivan, J. B. & Bro. (Fresco & Mural), 266
Thiel, L. A. (Fresco), 59 Clark N Clarl
Weary & Alfred Co., 1st National Bank bldg
PEORIA—Bush, Jno. A., 430 Main
Trapp, J. B., 508 Main

INDIANA.

FORT WAYNE—Fort Wayne Art Decorative
Co., 15 Arcade

Haller, Gottlieb, 362 Calhoun
Hull, S. W., 27 Clinton
Kreihbaum, Fred, 92 Barr
Lang, H. R. & Co. (Plastic, Staff & Com-
position)

INDIANAPOLIS—Coppock Bros. (Wall Paper),
15 Pemhroke Arcade

Fertig & Kevers, 40 E Wash
Gioscio, G. & Co., 123 N Nohle
INTERIOR HARDWOOD CO. (See
adv. index, end of hook)

Mack, F. J. & Co., 26 Ky av
Reisinger, Wesley, 23 S Alabama

IOWA.

ALBIA—Bird, W. E.
BURLINGTON—Brune, H. & Co.
DES MOINES—Kell, Otto, 1026 16th
FAIRFIELD—Moore, M. V. & Son
SIOUX CITY—Almskog & Anderson, 614 5th

KANSAS.

IOLA—Broadus, F. M.
TOPEKA—Fernald, Martin & Co., 625 Kansas
Larsh, H. L. & Co., 722 Kansas av

KENTUCKY.

LOUISVILLE—Davies, Will G., 779 7th
Duncan, T. B. & Sons, 517 3d
Fernow, F. & Sons, 326 Stein ct
Herchenrader, Chr., 1035 Mary
Lambert, Geo. H., 502 6th
McDowell, R. E., 915 W Market
Moock, Lorentz, 706 E Jefferson
Pell, W. B. & Bro., 531 3d
Schmiedt, William, 1062 E St. Catharine

LOUISIANA.

NEW ORLEANS—Del'Isle, S. G., Hibernia
Bank hldg
Pan-American Decorating Co., 132 Chartres

MAINE.

PORTLAND—Durgin Bros.
Howard, W. H., 36 Union
Jost, Daniel F., 210 Cumberland
Mitchell, A. L., 45 Cross
Spearrin & Gifford

MARYLAND.

BALTIMORE—Benson, Chas. J. & Co., 325 N
Dieter, L. A., 105 N Howard Charles
Du Brau Art Co., 527 N Howard
Du Brau, O. M., 606 N Eutaw
Hiltz, Wm. F., 3 Clay
Hiss Co., The, Inc., 2 E North av
Horner Decorative Co., 224 N Charles
Howe, J. W. & W. S., 212 Clay
Knipp, John C. & Sons, 395 N Charles
May, M. Co., 715 N Howard
Mettee & Co., 128 N Eutaw
Roche, Geo. J. & Sons, Holliday & Lexington
Tumblison, R. J., 908 Madison av
Valliant, J. G. Co., 338 N Charles
Watts, J. Marion, 15 Clay

MASSACHUSETTS.

BOSTON—Allen, Hall & Co. (Complete Inter-
iors), 384 Boylston
Alley & Emery, 40 Beacon
Bissell, Samuel, 168 Tremont
Bowker, Lyman A. & Co. (Furniture &
Draperies), 498 Boylston

Buck, C. H. & Co. (Fresco, etc.), 309
Wash'n
Clark, Cyrus T. Co. (Fresco, etc.), 45
Wareham

Codman, Richard, 149a Tremont
Cutler-Marshall Co., 166 Devonshire
Cutter, A. B. Co. (Fresco & Stained Glass),
36 Columbus av

Daniels & Howlett Co., 40 State
Delorey Bros., 198 Pleasant
Dolan, Wm. J. (Fresco & Mural), 181 Tre-
mont

EMMEL, CHAS. (Paper Mache,
Plaster Relief, Composition Plaster &
Staff, etc.), 383 Alhany. (See adv. index,
end of hook)

Emmel Co., 81 Bristol
Forsberg & Naylor, 5 Savin Hill av, Dor.
Foster & Wiley Co., 468 Boylston
Fowle, Herbert (Fibrous Plaster Modelers
& Carvers), 43 Bristol

Gregory & Brown Co., 6 Hamilton pl
Haberstroh, L. & Son (Mural, etc.), 647
Boylston

Irving & Casson (Complete Interiors), 150
Boylston

Kirtland, Chas. F. & Co., 350 Boylston
Lombard, A. P. & Co. (Composition Orna-
ments, etc.), 101 Bristol

McCormack & Son, 137 Worcester
Mortensen & Holdensen, 154 Boylston
New England Decorating Co. (Flags), 144
State

Perry, L. F. & Whitney Co., 8 Bosworth
Peters & Lindsay, 477 Tremont
Pray, Jno. H. Sons & Co. (Upholsters, Car-
pets, etc.), 658 Wash'n

Rogers, F. M. & Co., 31 Province
Schneider, Charles H., 492 Dudley
Schubach & Zeller, 10 Park sq
Sears, Joshua & Co. (Fresco), 165 Tremont

Shea & Lannon, 377 Boylston
SLEEP, ELLIOT & KING CO. (Fi-
brous, Plaster & Modelers), 351 Cam-
bridge. (See adv. on following page)

Strauss Bros. (Fresco), 27 School
Vogt, Paul & Sons (Plastic, etc.), 110 Tre-
mont

Wallburg & Sherry, 136 Harrison av
Wallburg & Woehr, 60 Charles
Whitaker, Wm. B. Co. (Church Furnishings),
35 Wareham

Wingate, Jas. I. & Son, 338 Boylston
Woodman & Kelley, 21 Barrett
Woodside, Alfred A., 163 Sumner, E. B.

FALL RIVER—Hoar, Geo. E. & Son, 68 Bed-
ford

Sawyer, Chas. S. & Co., 1800 S Main
Willette, Geo. & Son, 469 Montaup
Wood & Hirst, 1002 N Main

LOWELL—Kimball, E. L., 52 Palmer
Kittredge, A. L. & Co., 208 Central
Spalding, W. H. & Co. (Fresco), 62 Middle

LYNN—Falls, Henry B., 116 Broad
SOMERVILLE—Story, O. L. (Fresco & Mural),
21 Tufts

SPRINGFIELD—Ashley, H. W. (Fresco), 127
Bridge

Atkins, A. W. (Fresco), 18 Allendale
Old Corner Decorating Co., 66 Bridge
Thieme Bros., 567 Main
Williams, J. H. Wall Paper Co. (Fresco), 34
Harrison av

TAUNTON—Blandin, E. G. & Co., 10 Trescott
Crowley & Savery, 43 W Water
Eastabrook, Fred W., 49 Main

WORCESTER—Minsch, Chas. G. & Co., 14
Sandgren & Ehnberg, 274 Main Waldo
Sternberg & Co., 4 Elm

Strauss Bros., 6 Norwich

MICHIGAN.

BATTLE CREEK—Marsh & Link
DETROIT—Bailey Co. (Art Decorations), 224
21st

Bamford, Fred & Co. (Fresco, etc.), 220
Jefferson av

Brand, Chas. R., Son (Fresco, etc.), 1518
Woodward av

Brede & Schroeter (Fresco, etc.), 20 Adams
av & 152 Gratiot av

Burnett, H. E. & Co., 434 Grand River av
Carr Co., 4 Valpey hlk

Chittenden, A. W. (Architect & Decorator),
34 Congress, W., & 1325 Penobscot bldg

Danforth, E. H., 176 Clifford
Dean, Harry J. Co. (Fresco), 169 Griswold

Detroit Decorative Supply Co. (Ltd.), 810
14th

Griessel & Lenzen (Fresco), 420 Gratiot av
Hargreaves Mfg. Co., 18th & Howard

Kress & Miller, 376 Gratiot av
Kunter, Fred., 564 Gratiot av
Lenz, Wm., 476 Watson

Louys & Wickey, 926 Grand River av
Martin, Wm. E. (Fresco, etc.), 719 Wood-
ward av

Otto, H. A., 964 Canfield av, E.
Palmieri, Pascal, 60 Monroe av

Roach, Jas. Co. (Fresco & Designers), 283
Woodward av

Rolser, Jas. W., 15 Willis av, W.
Spindler, M. & Son, 210 Gratiot av

Vinton Co., 126 Woodbridge E
Wall, T. J. & Sons (Fresco), 836 Mich. av
Wright, Wm. Co. (Designers & Decorators),
54 Fort, W

GRAND RAPIDS—Harvey, C. L. & Co., 59
Monroe

Heystek & Canfield Co., 75 Monroe
Noneman, C. C., 20 W Bridge

JACKSON—Marriott, H. H. (Fresco, etc.), Car-
ter hldg

SAGINAW—Boehlke, Henry & Co. (Fresco),
800 S 4th av

Maxon, E. C. & Sons (Fresco), 207 S Wash'n
av

MINNESOTA.

DULUTH—Gordon, J. Fred., 127 E Superior
Youngdahl & Oman, 232 W 2d

MINNEAPOLIS—Andrews, C. H., 1621 Queen
av, N

Bradstreet, John S. & Co. (Decorators &
Furnishings), 327 S 7th

Cheney, M. M., Auditorium hldg, 4th floor
Clow, J. A. & Co. (Art Goods), 806 Nicollet

Cramer, Harry B. Co., 215 S 6th av
Huhert, J. E., 1016 22d av, N E

Jacobson, H. M., 817 Nicollet av
Taylor & Watson, 17 S 7th

ST. PAUL—Bazille & Partridge (Fresco), 33 E
Hanson & Swenson, 204 W 6th 6th
Hill Decorating Co., 409 Sihley

MISSOURI.

KANSAS CITY—Jennens, W. H. Mfg. Co.
(Staff, Compo., Carton Pierre, etc.), 1700
Wyandotte

Tracy Decorative Co., 401 E 11th
ST. JOSEPH—Janicke, Rudolph, Irish-Ameri-
can hldg

ST. LOUIS—Bailey Decorative Co., 1442 N
Grand av

Becker, Wimar A., Euclid & McPherson av
Bender, M. & Co., 3832 Olive

Buehner, A. & Co., 220 N 2d
Cheshire Realty & Decorating Co., 5888
Easton, av

Doyle & Gahl Decorating Co., 2620 Olive
Eastman & Johnstone Mfg. Co. (Plastic,
Staff Carving, Modeling, etc.), 1711 St.
Charles

Gugelmann, Rudolph, 3219A Magazine
Hey & Holdsworth Decorating Co., 906 N

Kaselow, Albert, 4320 Olive Grand av
Loire, P. Wall Paper & Frescoing Co., 4209

Marx & Jones, Carleton hldg Olive
Newcomb Bros., Wall Paper Co., 416 N. 4th.

Prall, Alfred A. (Carving, etc.), 2706 Ar-
mand

Pries, Alhert, 1311 Wash'n av.
Roehrig & Jacoby Wall Paper & Carpet Co.,
1223 Olive.

SEIFERT, FRANK A., PLASTIC
Relief Co. (Architectural, Plastic Relief,
etc.), 2646 Lawton av. (See adv. index,
end of hook)

Watts, Geo. A., 1322 Washington av
Wendt, Aug., 3807 Botanical av

Wright-Gilmore Decorating Co., 1021 N
Grand av

NEBRASKA.

OMAHA—Carson, Cleeve & Sons, 2011 Cuming.
Stern, T. J., 2525 N 20th

NEW HAMPSHIRE.

MANCHESTER—Sullivan, Wm. H., 379 Lake av.

NEW JERSEY.

ELIZABETH—Laggren Bros. Co.
HOBOKEN—Schwenck, Geo. C., 114 Bloomfield.

JERSEY CITY—Kelly, Louis W., 14 Oakland av.
NEWARK—Creter, Philipp, 34 Livingston

Duchemin, Geo. W., 37 Wainwright
Prior, J. V. (Carton Pierre), 238 Wash'n

Schulz, H. & Son, 869 Broad
PATERSON—Garrison's, R. B. Sons, 11 Park av

Greenalgn, Charles, 37 Park av
SUMMIT—Baird, Thomas.

TOWN OF UNION—(P. O. Weehawken), Berkle-
mans, D. Geo.

WEHAWKEN—Bergman Bros., 86 Hudson av.
WEST HOBOKEN—Anderson's Sons.
Bloch, Max.

ARCHITECTURAL ORNAMENTS of the Highest Order



STEAMER PROVIDENCE, FALL RIVER LINE, NEW YORK AND BOSTON.

Papier-Mache, Compo, Staff and Plaster, also Wood Carving and Modeling, Cornices, Modillions, Friezes, Capitals, Consoles, Etc. Models made for Wood and Stone Carving, Cement and Metal Castings. Executing Work from Architects' Drawings is Our Specialty.

CHARLES EMMEL,

(ESTABLISHED 1884)

383 Albany Street, BOSTON, MASS.

R. O. SCHMIDT, Pres.
F. HAHN, Vice-Pres.

Architectural Decorating Company,

643-645

SO. JEFFERSON ST.,
CHICAGO, ILL.



CHR. DOD, Sec.
C. BAUER, Treas.

Telephone Canal 1463

Manufacturers of

Relief Decorations
for Exteriors and
Interiors in Cement
Plaster, Carton
Pierre, Composi-
tion and Wood.

CAPITOLS

...Manufacturers of...

FINE GRILL WORK

CAPITOLS
BRACKETS

Plastic and Composition

DECORATIONS

FOR INTERIOR AND EXTERIOR



GRILLES

WRITE FOR CATALOGUES

The Decorators Supply Co.

Archer Avenue and Lee St.
CHICAGO, ILL.

RELIEF DECORATIONS

FRANK A. SEIFERT PLASTIC RELIEF CO.

HIGH CLASS
PLASTIC
RELIEF
ORNAMENTS

FOR INTERIOR
AND EXTERIOR
PURPOSES IN
PLASTER, STAFF and
COMPOSITION.



WE issue two
Catalogues.
Our No. 1 on
Capitols and
Brackets, and
our No. 2 on
Wall and Ceil-
ing Ornamen-
tation. ❀ ❀ ❀

2646 - 2652 LAWTON AVENUE,



ST. LOUIS, MO.

NEW YORK.

ALBANY—Albany Wall Paper Co., 98 B. Madison av.
 Blocksidge, Jas. (Fresco & Mosaic Glass), 2 High
 Buckley, Thos. (Fresco & Plastic Relief), 452 B'way
 Foster, Ellsworth, 121 N Boulevard
 Harrigan, John (Fresco & Stained Glass), 165 Madison av
 Heimburger, R., Broad & 4th av
 Hudson, Edwin, 782 B'way
 Jones & Buchanan, 57 Maiden la
 BINGHAMTON—Mable, Fred J., 93 State
 Runyon, Geo. H., 88 Susq'nah
 Van Selver, A. D., 90 State
 BUFFALO—Donovan, D. J. Co. (Fresco), 871 Main
 Morgan, D. E. & Son & Allen Co., 636 Main
 Smith, E. P. (Fresco), 941 Main
 Thursack, Louis, 661 Walden av

NEW YORK CITY.

Borough of Brooklyn.

BROOKLYN—Aldridge, Fred, 117 Lawrence
 Armstrong, A. P., 965 Bedford av
 Aruold & Locke, 246 Fulton
 Axelson, F. G., 327 Smith
 Cedarholm, Wm., 86 7th av
 Doudera, Chas., 80 Court
 Doyle's, Jno. Son, 1099 Fulton
 Eastern Ornamental Plaster Co. (Relief & Plastic), 75 Fulton
 Forman, Geo. A., 654 Gates av.
 Goebel, L. A., 291 Schermerhorn
 Gramercy Decorating Co., 1676 B'way
 Halbert, G. & W., 455 Fulton
 Hunter, Jas., 33 Clinton
 Hunter, Jas. P., 90 Boerum
 Korber, A., 53 De Kalb av
 Lauckhardt, Peter, 173 Clinton
 Lundine Co., 321 Flatbush av
 Mills-Platt Co., 44 Clinton
 Palmquist, Anton, 990 Fulton
 Svenson, O. & Sons, 269 Flatbush av
 Szerlip & Kellner, 5303 3d av
 Tilly, Alfred, 1395 Atlantic av

Boroughs of Manhattan & Bronx

NEW YORK—Abberley, Jno. J. & Bro., 1 Madison av
 Alavoine, L. Co., 43 W 43d
 Allard & Sons, 185 Madison av
 Allen, C. S., 489 5th av
 Anspacher, H., 500 5th av
 Baumgarten, Wm. & Co. (Complete Interiors), 238 E 44th
 Beam's, N. B. Sons, 135 Madison av
 Bell, Hamilton & Co. (Complete Interiors), 18 E 41st
 Berger, H. Sons (Plastic, etc.), 101 4th av
 Brickelmaier Decorating & Painting Co., 160 5th av
 Briggs & Woods, 2 E 33rd
 Brounet, Arthur, 1133 B'way
 Church Art Work Co., 151 E 18th
 Church Glass & Decorating Co., 28 W 30th
 Cockcroft, E. T. & Co., 80 W 40th
 DECORATIVE ARTS CO., 527 5th av. (See adv. index, end of book)
 Dillon, Jos. & Sons, 850 6th av
 Douthitt, J. F. (Decorations), 273 5th av
 Duryea & Potter, 477 5th av
 Ellin, Kitson & Co. (Carvers, Sculptors, etc.), 25th & N. R.

Flint, Geo. C. Co., 43 W 23d
 Gehlen Co., 42 Union sq E
 Geissler, R. (Stained Glass), 56 W. 8th
 Glaenger, Georges A. & Co. (Decorators), 33 E 20th
 Hammerstein & Denivelle (Plastic, etc.), 451 W 54th
 Hayden Co. (Furniture & Antiques), 523 5th av
 Herter Bros. (Complete Interiors), 489 5th av
 Herts Bros. (Complete Interiors), 507 5th av
 Hess, D. S. & Co., 421 5th av
 Hiss, Philip & Weeks (Decorators), 111 5th av
 Hofstatter, Theo. & Co., 589 5th av
 Hoggson Bros., 7 E 44th
 Huber, H. F. & Co. (Decorators), 382 5th av
 Kerr, Jas. M. (Plaster, Papier Mache, Carton Pierre, etc.), 443 W 19th
 Kimbel, A. & Sons (Complete Interiors), 12 W 40th
 Kissam, H. S., 156 5th av
 Klee, Thomson & Co., 327 E 40th
 Lamb, J. & R. (Inc.) (Ecclesiastical & Interiors), 25 6th av
 Lamont & Kempton, 430 4th av.
 Lawrence, S. B., 291 5th av
 Liesum, Geo. (Plastic Relief, etc.), 228 E 24th
 Marcotte, L. & Co. (Complete Interiors), 12 W. 36th
 Murphy Decorating Co. (Paper Hanging), 520 Hudson
 MYCENIAN MARBLE CO., 534 W. 34th. (See adv. index, end of book)
 Nelson, Jno. L. & Bro. Co., 270 W 19th
 Nelson, W. P. Co., 120 W. 29th st. (Branch of Chicago office)
 Neuman & Co., 417 Madison av.
 Parker, William, 120 W. 29th.
 Righter & Kolb (Artists' Plastic, etc.), 156 5th av
 Rochette & Parzini, 719 1st av., New York.
 Rode, Frederick Co. (Complete Interiors), 518 5th av
 Rudolph, Oscar (Inc.), 32 E 22d
 SLEEP, ELLIOTT & KING CO., W 23d, New York. (See adv. below)
 Sloane, W. & J. (Complete Interiors), 884 B'way
 Smith, Jos. & Co. (Carving, Sculptors, etc.), 428 E 23d
 Stoltzenberg Co. (Ecclesiastical), 51 Barclay
 Strahan, Thos. Co., 156 5th av
 Taft & Belknap Galleries (Rugs, Tiles, Bronzes, Fabrics, etc.), 1 E. 40th
 Thornton Bros. Co. (Fresco), 1320 Clay av.
 Tiffany Studios (Complete Interiors), Madison av & 45th
 Valenti & Sons, 1568 B'way
 Walter, G. E. Co. (Plastic Papier Mache & Composition), 157 E 44th
 Waters, Nichols & Crowninshield, 3 W. 29th.
 Whitman, J. Franklin Co., 235 E. 41st.
 Whittredge & Barrows, 4 W. 40th.
 ROCHESTER—Hayden Co. (Complete Interiors), 320 N. Goodman
 SYRACUSE—Allewelt, E. M. & Bro., 423 S Salina
 Merz & Schweikert (Fresco & Art Relief), 921 Highland
 Schneider, F. H., 120 Burnet
 Schnurr, Stephen, 2023 Lodi
 Yale, J. W. & Son (Fresco), 320 S Salina
 TROY—Ahern, M., 78 South.
 Baehr, Chas., Hill nr Bridge
 Bernard & Starkey, 46 State
 Bernard, E. A. 109 Church
 Dorsey, Cornelius M. (Fresco), 204 4th

Holland, D. T. (Fresco), 193 4th
 Messinger, John, 119 4th
 Myers Bros. (Fresco), 376 3d
 Schudt, Henry (Fresco), 181 River
 UTICA—Davis, Chas. P. Sons, 4 Noyes
 Holland Bros., 204 Bleecker
 Wood Bros., 337 Genesee

OHIO.

CINCINNATI—Behrens, Wm. F. & Co., Union Trust bldg
 Casnelli, Victor (Artist & Fresco), 526 Vine
 Cincinnati Plastic Relief Co., Station M.
 Ellenberger Bros. (Decorators), 506 Lincoln Inn Court
 Knoche & Steves, 2101 Reading rd
 Lay, Wm. A. & Co. (Fresco), 337 Sycamore
 Matthews Decorative Co., 113 W. 8th.
 Scharstein, Frank, 2389 Kemper Lane.
 Tomoor, L. & Co. (Designers & Decorators), Perin bldg
 Wrampelmeier, F. & Son, 604 B'way
 CLEVELAND—Brooks Household Art Co., 2520 Prospect
 Otis, Wm. L. Co. (Furniture, Draperies, Hangings, etc.), 1938 Euclid av.
 Weber, Lind & Hall Co., 2053 E. 9th.
 COLUMBUS—Batterson Decorative Co., 45 W Gay
 Bryant Bros. (Fresco & Decorations), 121 S 3d
 Coulson, J. W. & Co. (Fresco), 96 N 3d
 Melliush, C. W. (Plastic), 251 E Long
 Phillips, C. J., Decorating Co., 44 N. High.
 DAYTON—Segerer, Alois,
 King Bros. & Co.
 MADISONVILLE—Cincinnati Plastic Relief Co. (Plastic Relief)
 SPRINGFIELD—Ridgley Decorative Co., 31 W Main
 TOLEDO—Allen, George H., 715 Madison.
 Schmidt, Fred C. Wall Paper Co., 705 Cherry

OREGON.

PORTLAND—Barger, H. J., 130 1st
 Christensen, H. P., 141 7th
 Moorehouse, E. H. & Co., 312 Alder
 Sutcliffe & Blied, 307 Alder

PENNSYLVANIA.

ALLEGHENY—Artzberger, W. H., 712 Cedar av
 ALLENTOWN—Reichard, A. J., 246 N 7th
 OIL CITY—Veach, Geo. J. (Fresco Hangings, Carpets, etc.)
 PHILADELPHIA—Abel, Chas., 40 N. 5th.
 Abel, E. J. (Miss), 10 S. 18th.
 Alcott-Ross Co., 2917 N Broad
 Architectural Woodworking Co., 3029 Chestnut, Philadelphia, Pa.
 Ashman, C. J., 1622 Chestnut.
 Brix & Co., 129 S 15th
 Campbell, F. M. & Co., 1602 Chestnut
 Chapman Decorative Co., 1502 Walnut
 De Planque, F. R. & Son (Carton Pierre, Plastic & Papier Mache), 341 N. 4th.
 Evans, G. G., Crozer bldg
 Gossert, Henry, 320 Harmony
 Haggenbotham, John, 124 S. 20th.
 Hale & Kilburn Mfg. Co., 1315 Walnut.
 Hall & Garrison Mfg. Co., 1126 Wash'n av
 Holt & Pritty, 9 S. 18th.
 Keystone Decorating Co., 41 N 6th
 Maene, Edouard (Sculptor), 309 S Lawrence

MODELS FOR STONE CARVING
 IRON AND BRONZE, SCAGLIOLA

PORTLAND AND KEENE CEMENT
 PLAIN AND ORNAMENTAL WORK

SLEEP, ELLIOTT & KING CO.

(INCORPORATED)

MODELING, FIBROUS ORNAMENTAL PLASTER AND PLAIN
 PLASTERING, WOOD CARVING, PAPIER MACHE.

WE GIVE SPECIAL ATTENTION TO EXTERIOR STUCCO WORK.

562 WEST 23rd STREET NEW YORK
 351 CAMBRIDGE ST., BOSTON, MASS.

We refer to our work in the Providence Inst. for Savings, Providence, R. I.; Union Trust Co. Bank, Providence, R. I.; Sherry's Hotel, New York City; Public Libraries in Fall River, Mass.; Lynn, Mass.; Holyoke, Mass.; Providence, R. I.; Utica, N. Y. and Hampton, Va.; Hollis Street Theatre, Boston, and Ceiling of Foyer of Colonial Theatre, and the Majestic Theatre, Boston.



Parker, H. Hanley, 1803 N Park av
 Petry, V. J., Bailey Bldg.
 Tognarelli & Voigt, 2310 Chestnut, Phila. Pa.
 Ward & Nickelsen, 1626 Chestnut
 Whitman, J. F. Co. (Inc.) (Sculptors &
 Decorators), 432 N. 12th
 Woodville & Co., 110 S 17th
PITTSBURG—Hoffman, W. H., Farmers' Nat.
 Bank bldg
 McKenry, Chas. E. (Papier Mache, etc.),
 Ferguson bldg
 Van Malderan, F. T., 5th av & Jumonville
 Van Tine, W. H., 403 Penn av
SCRANTON—Spiegel, Frank P.

RHODE ISLAND.

PROVIDENCE—Arhweiler, S. W. (Fresco), 20
 Chestnut
 Bender, O. N. & Son, 135 Orange
 Goetting, M. Co., 461 Westminster
 Inman & Bearse (Paperhangings), 454 West-
 minster
 Madden, Patrick J. & Co. (Fresco), 59 Wick-
 enden
 Merriam Co. (Paperhangings), 383 Westmin-
 ster

TENNESSEE.

MEMPHIS—Balton, Dan'l F. & Co., 91 Hernan-
 Grieswold Decorating Co., 108 Poplar do
 Justice, B. A. & Co., 3 S 2d
 Leslie & Co., 700 Saffran
 Price & Co., Equitable bldg
 Wilson, C. F. & Co., 262 2d

TEXAS.

FORT WORTH—Knetsch & Rinaldi

VIRGINIA.

NORFOLK—Stiff, E. W., 39 City Hall av
 Umstadter-Myers Co.
RICHMOND—Copeland, H. E. & Co., 108 N 9th
 Lee, Jas. R. & Co., 807 E. Franklin
 Moore, George H., 20 E. Marshall
 Norvell, Chas. B., 213 N 6th
 Smithers, J. W. & Co., 204 N 5th
 Volkmann, Adolph, 218 W Broad

WASHINGTON.

SPOKANE—Anderson, A. M., 1010 2d av
 Brydle Paint & Wall Paper Co., 908 Sprague
TACOMA—Nagatomo, Y. & Co. av

WISCONSIN.

LA CROSSE—Oyen, Odin J., 114 S 4th
MILWAUKEE—Associated Artists, 472 Jefferson
 Busse, Chas. L. & Co., 470 E. Water
 Evers, L. F., 446 Jackson
 Harper, Rob't & Sons, 461 Broadway
 Jorgensen, C. J. (Decorator & Designer), 521
 Jackson
 Maxwell & Stillman, 116 Mason
 Milwaukee Ornamental Carving Co., 423 Poplar
 Nase, Kraus & Koken, 401 Grand av
 Panduro, Rudolph (Frescoing & Decorating),
 1316 State
 Petersen, P. & Sons, 456 E. Water
 Weden, H. & Co., 601 Jackson

Decorations (Plastic Relief)

ARCHITECTURAL DECORATING CO.,
 643 S Jefferson, Chicago, Ill. (See adv. in-
 dex, end of book)
 Bailey Co., 224 21st, Detroit, Mich.
 Cincinnati Plastic Relief Co., Madisonville, O.
DECORATORS' SUPPLY CO., Archer
 av & Leo, Chicago, Ill. (See adv. index, end
 of book)
EMMEL, CHAS., 383 Albany, Boston,
 Mass. (See adv. index & branch offices, end
 of book)
 Forman Bros., 645 Gates av, Brooklyn, N. Y.
 Milwaukee Art Decorative Co., 1115 Wells,
 Milwaukee, Wis.
 Milwaukee Ornamental Carving Co., 423 Poplar,
 Milwaukee, Wis.
 Richardson, H. H. & Co., Jacksonville, Fla.
 Righter & Kolb, 156 5th av, New York
 Root, C. R., 104 Asylum, Hartford, Conn.
SEIFERT, FRANK A., PLASTIC RE-
 lief Co., 2646 Lawton av, St. Louis, Mo.
 (See adv. index, end of book)
SLEEP, ELLIOTT & KING CO. (Inc.),
 562 W. 23d, New York, & 351 Cambridge, Bos-
 ton, Mass. (See adv. on preceding page)
 Tognarelli & Voigt, 2310 Chestnut, Phila., Pa.
 Vogt, Padl & Sons, 110 Tremont, Boston, Mass.
 Walter, G. E. Co., 157 E 44th, New York
 Whitman, J. F. Co., 432 N. 12th, Phila., Pa.

Decorations (Theatre)

ARCHITECTURAL DECORATING CO.,
 643 S Jefferson, Chicago, Ill. (See adv. in-
 dex, end of book)
 Arnold & Locke, 250 Fulton, Brooklyn, N. Y.
DECORATORS' SUPPLY CO., Archer
 av & Leo, Chicago, Ill. (See adv. index, end
 of book)
 Eckart, Wm. Decorating Co., 66 Wabash av,
 Chicago, Ill.
EMMEL, CHAS., 383 Albany, Boston,
 Mass. (See adv. index & branch offices, end
 of book)
 Halbert, Geo., 455 Fulton, Brooklyn, N. Y.
 Righter & Kolb, 156 5th av, New York
SEIFERT, FRANK A., PLASTIC RE-
 lief Co., 2646 Lawton av, St. Louis, Mo.
 (See adv. index, end of book)
SLEEP, ELLIOTT & KING CO. (Inc.),
 562 W. 23d, New York, & 351 Cambridge, Bos-
 ton, Mass. (See adv. on preceding page)
 Story, O. L. Scenic Co. (Inc.), 21 Trafts, Somer-
 ville, Mass.

Decorative Art Leathers

Baisden-Bragdon-Webb Co., 13 W. 30th, N. Y.
 Boston Artificial Leather Co., Stamford, Conn.,
 & 256 4th av, New York
 Mills-Platt Co., 44 Clinton, Brooklyn, N. Y.
 Righter & Kolb, 156 5th av, New York

Decorative Art Tapestries

Brounet, Arthur, 1133 B'way, N. Y.
 Mills-Platt Co., 44 Clinton, Brooklyn, N. Y.
 Turner, J. Spencer Co., 86 Worth, New York

*Decorative Fabrics

DECORATIVE ARTS CO., 527 5th av.
 New York. (See adv. index, end of book)

Decorators (Architectural)

ARCHITECTURAL DECORATING CO.,
 643 S Jefferson, Chicago, Ill. (See adv. in-
 dex, end of book)
 Brounet, Arthur, 1133 B'way, New York
 Buehner, A. & Co., 220 N 2d, St. Louis, Mo.
 Cincinnati Plastic Relief Co., Station M, Cin-
 cinnati, O.
DECORATORS' SUPPLY CO., Archer
 av & Leo, Chicago, Ill. (See adv. index, end
 of book)
 Eastman & Johnstone Mfg. Co., 1711 St.
 Charles, St. Louis, Mo.
EMMEL, CHAS., 383 Albany, Boston,
 Mass. (See adv. index & branch offices, end
 of book)
 Mills-Platt Co., 44 Clinton, Brooklyn, N. Y.
 (See adv. below)
 Milwaukee Ornamental Carving Co., 423 Poplar,
 Milwaukee, Wis.
 Purdy & Hutchenson, 2206 S Park av, Chicago,
 Ill.
 Righter & Kolb, 165 5th av, New York
 Root, C. R., 104 Asylum, Hartford, Conn.
 Schneider, F. H. (Altar Builders, etc.), Syra-
 cuse, N. Y.
SEIFERT, FRANK A., PLASTIC RE-
 lief Co., 2646 Lawton av, St. Louis, Mo.
 (See adv. index, end of book)
 Stoltzenberg Co., 51 Barclay, New York
 Tognarelli & Voigt, 2310 Chestnut, Phila., Pa.
 Weary, Edw. D., First National Bank bldg,
 Chicago, Ill.

Decorators (Ecclesiastical)

Cappaccioli, U., 632 Penn av, Pittsburg, Pa.
 Gelssler, Rudolph, 58 W 8th, New York
 Stoltzenberg Co., 51 Barclay, New York
 Whitaker, W. B. Co., 35 Wareham, Boston,
 Mass.

*Decorators' Supplies

MURAL CO. (Colors, Decorators'
 White, Relief Bulbs, etc.), New Brighton,
 Borough of Richmond, New York. (See adv.
 index, end of book)

Decorators & Painters (Mural)

Blashfield, Edwin H., 48 W 59th, New York
 Boyle, Jno. Co., New Britain, Conn.
 Combes, Herzog Co., 4 E. 34th, New York
 Gelssler, R., 56 W. 8th, New York
 Haberstroh, L. & Sons, 9 Park, Boston
 Nelson, Jno. L. & Bro. Co., 270 W 19th, N. Y.
 Nelson, W. P. Co., 241 Michigan av, Chicago,
 Ill., & 120 W. 29th, New York
 Turner, Chas. Y., 35 W. 14th, New York
 Weber, Lind & Hall Co., 351 Erie, Cleveland
 Whitaker, W. B. Co., 35 Wareham, Boston,
 Mass.

De-Horners (Cattle)

Brown, H. H. Mfg. Co. ("Newton," "Brown's
 Famous"), Decatur, Ill.
 Leavitt Mfg. Co. ("Leavitt"), Urbana, Ill.
 Phillips, Morris T. ("Keystone"), Pomeroy, Pa.
 Pratt, Wm. E. Mfg. Co. ("Perfect"), 91 Lake,
 Chicago, Ill.
 Webster, Geo. ("Bully," "Webster," "Con-
 vex"), Christiana, Pa.

Delta Metal Bars & Plates

Phosphor Bronze Smelting Co., 2204 Washing-
 ton av, Philadelphia, Pa.

Demagnetizers (Watch)

Knoblock-Heldeman Mfg. Co., South Bend, Ind.

*Depthometers

SCHAFFER & BUDENBERG MFG. CO.
 ("Murphy," for Breweries & Distillers),
 Foxboro, Mass. (See adv. index & branch
 offices, end of book)

De-Rails (Street Railway)

Buda Foundry & Mfg. Co., Railway Exchange
 bldg, Chicago, Ill.; Works: Harvey, Ill.
 Hayes Track Appliance Co. ("Hayes" Lifting &
 Pivot Derails, for Steam or Street Railways),
 Geneva, N. Y.
 Kalamazoo Railway Supply Co., Kalamazoo,
 Mich.
 National Railway Materials Co. ("Travis"), 90
 West, New York
 New York Switch & Crossing Co., Hoboken,
 N. J.
 Pneumatic Gate Co., 100 Washington, Chicago,
 Ill.
 Sheffield Car Co., Three Rivers, Mich.

Derrick Irons & Fittings

Allen & Ross, Pennsylvania bldg, Phila., Pa.
AMERICAN HOIST & DERRICK CO.,
 St. Paul, Minn. (See adv. index & branch
 offices, end of book)
AMERICAN WELL WORKS, Aurora,
 Ill. (See adv. index & branch offices, end of
 book)
ANDERSON, W. H., TOOL & SUPPLY
 Co., 14 Macomb, Detroit, Mich. (See adv.
 index, end of book)
 Apex Equipment Co., 11 B'way, New York
BYERS, JNO. F., MACHINE CO., Ra-
 venna, O. (See adv. index, end of book)
CARLIN'S, THOS. SONS CO., 1300
 River av, Allegheny, Pa. (See adv. index,
 end of book)
CARPENTER, GEO. B. & CO., 202 S.
 Water, Chicago, Ill. (See adv. index, end
 of book)
 Claffy's, John Sons, 48 Dey, N. Y.
 Contractors Plant Mfg. Co., 129 Erie, Buffalo,
 N. Y.
DOBBIE FOUNDRY & MACHINE CO.,
 Main Office & Works, Niagara Falls, N. Y.
 (See adv. index & branch offices, end of book)
FLORY, S. MFG. CO., Bangor, Pa.
 (See adv. index, end of book)
 Harvey, H. H., 608 Atlantic av, Boston, Mass.
HAZARD MFG. CO., Wilkes-Barre,
 Pa., & 50 Dey, N. Y. (See adv. index, end
 of book)
LANE MFG. CO. (Derrick Turning
 Gears, Air or Steam), Montpelier, Vt. (See
 adv. index, end of book)
LIDGERWOOD MFG. CO., 96 Liberty,
 New York, & Old Colony bldg, Chicago, Ill.
 (See adv. index & branch offices, end of book)
McKEOWN, H. J., 248 Butler, Cin-
 cinnati, O. (See adv. index, end of book)
NATIONAL HOISTING ENGINE CO.,
 Harrison, N. J. (See adv. index & branch
 offices, end of book)
 Nazareth Foundry & Machine Co. Nazareth, Pa.
NEW ALBANY MFG. CO., New Al-
 bany, Ind.
OIL WELL SUPPLY CO., 215 Water,
 Pittsburg, Pa. (See adv. index, end of book)
 Parker Hoist & Machine Co., 971 N. Francisco
 av, Chicago, Ill.
 Pittsburg Block & Mfg. Co., 8816 South av,
 Allegheny, Pa.
 Smith, Theo. & Sons Co., ft of Essex, Jersey
 City, N. J.
 South Baltimore Steel Car & Foundry Co.,
 Baltimore, Md.
TERRY & TENCH CO. (Inc.), Lex-
 ington av & 131st, New York. (See adv.
 index, end of book)
 Vulcan Iron Works, Fulton & Irving av, Chicago,
 Ill.

BOSTON-OREGON MAST CO.

WHOLESALE DEALERS IN

**Oregon Masts, Spars and Piling,
Derricks, Dredger Spuds**

PACIFIC COAST LUMBER PRODUCTS

Decking, Lumber, Cedar and
Red Cedar Shingles

SQUARE OREGON TIMBER

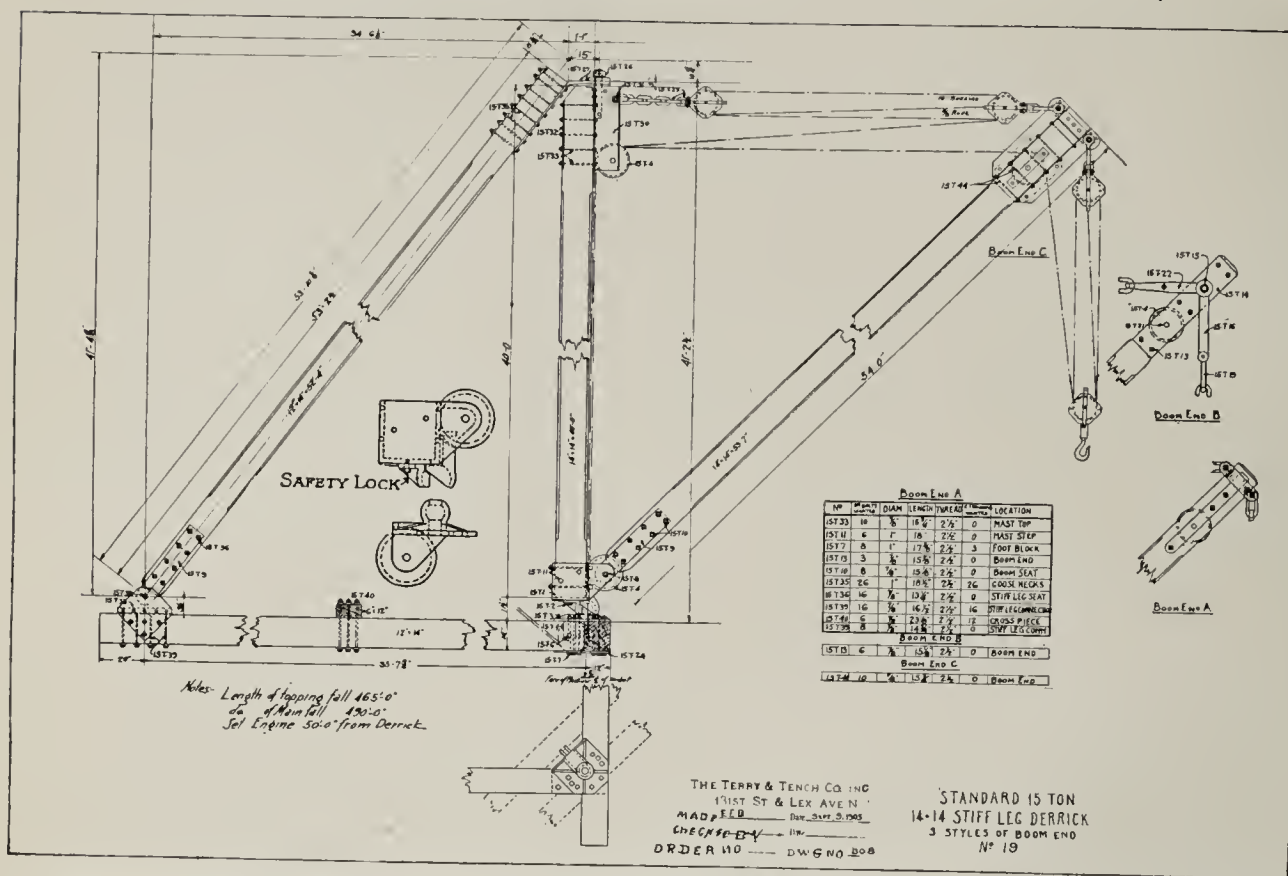
We carry constantly on hand a large assortment. We can ship by
rail to any point in America.

OFFICE, WHARF AND DOCK:

116 CONDOR STREET, EAST BOSTON, MASS.

THE TERRY & TENCH CO., Inc.

CONTRACTORS FOR
IRON AND STEEL BRIDGES STRUCTURAL IRONWORK



And all Classes of
Heavy Timber Work

Do You Use
Derricks?

We are Derrick
Specialists.

If you require any derricks
or erection tools write us
telling what you need and
we will tell you the cost.

SHOP AND OFFICE
131st St. & Lexington Ave.

NEW YORK CITY

Send for Catalogue R

Hendricks'

Commercial Register..

Is consulted by more than 100,000 Buyers annually.

If you want to reach a Buyer advertise in this Book.

No Book more frequently consulted regarding the purchasing
of materials, machinery or supplies.

Used by the Purchasing Department of every large concern
in the United States.

Derrick Rope Mfrs.

(See Manila & Sisal Rope Mfrs.; also Wire Rope Mfrs.)

Derrick Spars, Masts & Booms**BOSTON-OREGON MAST CO., E Bos-**
ton, Mass. (See adv. index, end of book)
Boston Spar Co., 371 Commercial, E. B., Bos-
ton, Mass.**PIGEON HOLLOW SPAR CO. (Clear**
White Spruce, Hollow & Solid Spars, 20 to
120 ft.), E Boston, Mass. (See adv. in-
dex, end of book)

Sutton, Jas. B., Mystic, Conn.

Derrick Swingers*MEAD-MORRISON MFG. CO., Works**
& General Offices, Cambridge (Boston),
Mass., & 11 B'way, New York. (See adv.
index, end of book)***Derrick Timbers****BOSTON-OREGON MAST CO., E Bos-**
ton, Mass. (See adv. index, end of book)**Derricks**(Under this heading see sub-classifications.)
(See also Cranes of Various Kinds; also Hoists
of Various Kinds)Allen & Ross (Steam, Electric, etc.), Phila., Pa.
(See adv. index & branch offices, end of book)**AMERICAN HOIST & DERRICK CO.,**
St. Paul, Minn. (See adv. index & branch
offices, end of book)**ANDERSON, W. H., TOOL & SUPPLY**
Co. (Full Circle Guy), 14 Macomb, Detroit,
Mich. (See adv. index, end of book)

Brunner & Lay, 133 W Polk, Chicago, Ill.

BYERS, JNO. F., MACHINE CO.
(Steam & Hand Power), Ravenna, O. (See
adv. index, end of book)**CARLIN'S, THOS. SONS CO., 1300**
River av, Allegheny, Pa. (See adv. index,
end of book)**CARPENTER, GEO. B. & CO., 202**
S Water, Chicago, Ill. (See adv. index,
end of book)

Clark, Alex. & Co., Quincy, Mass.

Contractors Plant Mfg. Co. (Steel or Wood),
127 Erie, Buffalo, N. Y.**CONTRACTORS SUPPLY & EQUIP-**
ment Co., Old Colony bldg, Chicago, Ill.
(See adv. index & branch offices, end of book)

Cram, D. Henry, 23 Powers, Boston, Mass.

DOBBIE FOUNDRY & MACHINE CO.,
Main Office & Works, Niagara Falls, N. Y.
(See adv. index & branch offices, end of book)**FLORY, S. MFG. CO., Bangor, Pa.**
(See adv. index, end of book)

Harvey, H. H., 608 Atlantic av, Boston, Mass.

HAYWARD CO., THE, 99 Cedar, New
York. (See adv. index, end of book)

Hinds, Thos., Malone, N. Y.

Interstate Engineering Co. (Hoisting), Bedford,
O.Irving Mfg. & Tool Co. (J. F. McCoy Co., Prop.),
159 Chambers, New York

Kaltenbach & Griess (Steel), Bedford, O.

KINSEY, E. A. CO., 331 W 4th, Cin-
cinnati, O. (See adv. index, end of book)Lake Shore Engine Works (& Derrick Hoisters),
Marquette, Mich.***LANE MFG. CO. (Boom), Montpelier,**
Vt. (See adv. index, end of book)**LIDGERWOOD MFG. CO., 96 Liberty**
N. Y. & Old Colony bldg, Chicago. (See
adv. first inside page; branch offices, end of
book)

Lincoln Iron Works, Rutland, Vt.

McMyler Mfg. Co., 182 Columbus, Cleveland, O.

MEAD-MORRISON MFG. CO., Cam-
bridge (Boston), Mass. (See adv. index &
branch offices, end of book)

Mine & Smelter Co., Denver, Colo.

Motley, Green & Co. (Inc.), 68 Broad, New
York**MUNDY, J. S., 22 Prospect, Newark,**
N. J. (See adv. index & branch offices, end
of book)Parker Hoist & Machine Co. (Hand & Power),
971 N Francisco av, Chicago, Ill.

Patch, F. R. Mfg. Co., Rutland, Vt.

Pittsburg Industrial Iron Works (Stationary or
Portable), Pittsburg, Pa., & Reynoldsville,
Pa.Portland Extension Ladder Co. (Derricks &
Scaffolds, Complete), 130 Orange, Newark,
N. J.Safety Steel Derrick Co. - (Steel), Bowling
Green, O.
St. Cloud Iron Works (Steam), St. Cloud, Minn.
Shannon, J. Jacob & Co., 1744 Market, Phila.,
Pa.Smith, Whitcomb & Cook Co., Barry, Vt.
South Baltimore Steel Car & Foundry Co.,
Baltimore, Md.**SPEIDEL, J. G. (Folding), c Button-**
wood & Gordon, Reading, Pa. (See adv. in-
dex, end of book)Steam Stone Cutter Co. (Steam, for Heavy
Stone Hauling)

Superior Iron Wks., Superior, Wis.

TERRY & TENCH CO. (Inc.), Lex-
ington av & 131st, New York. (See adv.
index, end of book)Union Elevator & Machine Co., 144 Ontario,
Chicago, Ill.

Vulcan Iron Works, Chicago, Ill.

Whitcomb Bros. (Boom), Barre, Vt.

WHITING FOUNDRY EQUIPMENT
Co., Harvey, Ill. (See adv. index & branch
offices, end of book)**WILLIAMS, G. H. CO., 1513 Rockefel-**
feller bldg, Cleveland, O. (See adv. index,
end of book)**Derricks (Clam Shell)****AMERICAN HOIST & DERRICK CO.,**
St. Paul, Minn. (See adv. index & branch
offices, end of book)**DOBBIE FOUNDRY & MACHINE CO.,**
Main Office & Works, Niagara Falls, N. Y.
(See adv. index & branch offices, end of book)Pittsburg Industrial Iron Works, Pittsburg, Pa.
Works: Reynoldsville, Pa.***Derricks (Electrical)****GENERAL ELECTRIC CO., Schenec-**
tady, N. Y., & 44 Broad, New York. (See
adv. index & branch offices, end of book)***Derricks (Floating)****HAYWARD CO., THE, 99 Cedar, New**
York. (See adv. index, end of book)***Derricks (Folding)****SPEIDEL, JOHN G., Buttonwood &**
Gordon, Reading, Pa. (See adv. index, end
of book)***Derricks (Guy)****HAYWARD CO., THE, 99 Cedar, New**
York. (See adv. index, end of book)***Derricks (Locomotive)****MEAD-MORRISON MFG. CO. (Self-**
Propelling, for Stone Cutting Sheds, etc.),
Cambridge (Boston), Mass., & 11 B'way,
New York. (See adv. index & branch offices,
end of book)**WILLIAMS, G. H. CO., 1513 Rockefel-**
feller bldg, Cleveland, O. (See adv. index,
end of book)***Derricks (Oil & Water Well)****OIL WELL SUPPLY CO., 215 Water,**
Pittsburg, Pa. (See adv. index, end of book)**Derricks (Pile Driving)****BYERS, JNO. F. MACHINE CO., Ra-**
venna, O. (See adv. index, end of book)**CARLIN'S, THOS. SONS CO., 1300**
River av, Allegheny, Pa. (See adv. index,
end of book)Contractors Plant Mfg. Co., 127 Erie, Buffalo,
N. Y.**DOBBIE FOUNDRY & MACHINE CO.,**
Main Office & Works, Niagara Falls, N. Y.
(See adv. index & branch offices, end of book)**LIDGERWOOD MFG. CO., 96 Liberty**
New York, & Old Colony bldg, Chicago, Ill.
(See adv. index & branch offices, end of book)

McMyler Mfg. Co., Cleveland, O.

MUNDY, J. S., 22 Prospect, Newark,
N. J. (See adv. index & branch offices, end
of book)**NATIONAL HOISTING ENGINE CO.,**
Harrison, N. J. (See adv. index & branch
offices, end of book)Smith, Theodore & Sons Co., ft of Essex, Jer-
sey City, N. J.Vulcan Iron Works, Fulton & Irving av, Chi-
cago, Ill.***Derricks (Revolving)**Allen & Ross (Steel), Phila., Pa.
HAYWARD CO., THE, 99 Cedar, New
York. (See adv. index, end of book)**WELLMAN-SEEVER-MORGAN CO.,**
(Steam), Cleveland, O., & Akron, O. (See
adv. index, end of book)**WILLIAMS, G. H. CO., 1513 Rockefel-**
feller bldg, Cleveland, O. (See adv. index,
end of book)**Derricks (Steam)**

(See Derricks.)

Derricks (Steel)**AMERICAN HOIST & DERRICK CO.,**
St. Paul, Minn. (See adv. index & branch
offices, end of book)

Danville Foundry & Machine Co., Danville, Ill.

DOBBIE FOUNDRY & MACHINE CO.,
Niagara Falls, N. Y. (See adv. index &
branch offices, end of book)**HAYWARD CO., THE (Traveling &**
Stationary), 99 Cedar, New York. (See adv.
index, end of book)

Interstate Engineering Co., Bedford, O.

York Bridge Co. (Any Length of Mast or Boom),
York, Pa.***Derricks (Stiff Leg)****HAYWARD CO., THE, 99 Cedar, New**
York. (See adv. index, end of book)**Derricks (Sugar Cane Handling)**

Gregg Co. Ltd., Newburgh, N. Y.

Derricks (Traveling)

Allen & Ross (Electric, etc.), Phila., Pa.

AMERICAN HOIST & DERRICK CO.,
St. Paul, Minn. (See adv. index & branch
offices, end of book)**BYERS, JNO. F. MACHINE CO., Ra-**
venna, O. (See adv. index, end of book)**DOBBIE FOUNDRY & MACHINE CO.,**
Main Office & Works, Niagara Falls, N. Y.
(See adv. index & branch offices, end of book)**HAYWARD CO., THE (Steel), 99**
Cedar, New York. (See adv. index, end of
book)

McMyler Mfg. Co., Cleveland, O.

MORGAN ENGINEERING CO. (Elec-
tric, etc.), Alliance, O. (See adv. index,
end of book)**NATIONAL HOISTING ENGINE CO.,**
Harrison, N. J. (See adv. index & branch
offices, end of book)**SHAW, WILLIS, 171 Lasalle, Chi-**
cago, Ill. (See adv. index, end of book)**TERRY & TENCH CO. (Inc.) Lex av**
& 131st, New York. (See adv. index, end of
book)**WILLIAMS, G. H. CO., 1513 Rockefel-**
feller bldg, Cleveland, O. (See adv. index,
end of book)**Desk Mfrs.**American Desk & Stool Co., 30 Howard, New
York**ANDREWS, A. H. CO., 174 Wabash**
av, Chicago, Ill. (See adv. index & branch
offices, end of book)

Armstrong & Barthelmes, Boston, Mass.

Atlanta Table Co., Atlanta, Ga.

Bagby Furniture Co., Baltimore, Md.

Barley & Spencer Lumber Co., Marion, Ind.

Beals, Thos. P. Co. (Inc.), Portland, Me.

Bently & Gerwig Furniture Co., Parkersburg,
W. Va.

Berlin Mills Co., Portland, Me.

Beuttel, H. H., Atlanta, Ga.

Black, Geo. H. (Typewriter), Buchanan, Mich.

Bowen Mfg. Co., The, Fond Du Lac, Wis.

Breed-Johnson Furniture Co., Jamestown, N. Y.

Butler Mfg. Co., Syracuse, N. Y.

California Lumber & Milling Co., San Francis-
co, Cal.

Capitol Chair Co., Brooklyn, Wis.

Central Mfg. Co., 41 Armour, Chicago, Ill.

Chattahoochee Furniture Co., Flowery Beach,
Ga.

Chautanqua Desk Co., Kafe, Pa.

Chautanqua, Jas. D., Syracuse, N. Y.

Columbia Lumber & Mfg. Co., Columbia, S. C.

Columbia School Desk Co., Columbus, Ga.

Corn Palace Mfg. Co., Sioux City, Ia.

Cutler, A. & Son, Buffalo, N. Y.

Dana, Geo. W., Camden, N. Y.

Dearborn Desk Co., Birmingham, Ala.

Derby Desk Co., Boston, Mass.
 Dietz, J. F. & Co., Cincinnati, O.
 Dodge Furniture Co., Manchester, Mass.
 Dornette, J. & Bro., The, Cincinnati, O.
 Doteu-Dunton Desk Co., Boston, Mass., & 89
 Fulton, New York
 Dubuque Cabinet Makers' Association, Du-
 buque, Ia.
 Estes, E. B. & Sons, 45 John, New York City,
 N. Y.
 Fassler, Jacob, Utica, N. Y.
 Feige, E. Desk Co., Saginaw, Mich.
 Feige, George, Saginaw, Mich.
 Forest City Furniture Co., Rockford, Ill.
 Wayne, Ind.
 Fort Wayne Special Furniture Co., The, Fort
 Franklin Desk Co., Franklin, Ind.
 Fravel, Joseph, Woodstock, Va.
 Friederich, L. & Bros., St. Louis, Mo.
 Fuller, Geo. S. Desk Co., San Francisco, Cal.
 Globe Fixture & Furniture Co., Quincy, Ill.
 Globe-Wernicke Co., Cincinnati, O.
 Grand Rapids Desk Co. (Roll, Flat, Standing &
 Typewriter), Muskegon, Mich.
 Gunn Furniture Co., The, Grand Rapids, Mich.
 Hall, G. W. & Co., Boston, Mass.
 Hauey School Furniture Co., Grand Rapids,
 Mich.
 Hanpeter, Frederick W., St. Louis, Mo.
 Hardwood Manufacturing Co., Greensboro,
 N. C.
 Hemmer Bros., Newark, N. J.
 Henry Mfg. Co., Los Angeles, Cal.
 Herkimer Manufacturing Co., Herkimer, N. Y.
 Herrmann & Co., 196 Mulberry, New York
 City, N. Y.
 Himmel, M. L. & Son, Baltimore, Md.
 Holman, R. Co., Chelsea, Mass.
 Honeoye Falls Wood Working Co., Honeoye
 Falls, N. Y.
 Horrocks Desk Co. (Inc.), Herkimer, N. Y.
 Hubbard, J. C. Mfg. Co., Boston, Mass.
 Ideal Furniture Co., Grand Rapids, Mich.
 Jasper Furniture Co., Jasper, Ind.
 Johnson Bros., St. Paul, Minn.
 Kansas City Furniture Co., Kansas City, Mo.
 Kelsall, Thos. & Co., Cincinnati, O.
 Keppel, R. J. & Co., Chester, Pa.
 Keyer, G. & Co., Cincinnati, O.
 Kleeman, W. & Co., 619 W 54th, New York
 City, N. Y.
 Koenig Furniture Co., St. Louis, Mo.
 Larson, Peter, 189 Iowa, Chicago, Ill.
 Lauter, Herman, Indianapolis, Ind.
 Leopold Desk Co., Burlington, Ia.
 McCassey Bros., Cincinnati, O.
 Macey Co., 343 B'way, New York, & Grand
 Rapids, Mich.
 Marvin, W. F. & Co. (Revolving Hotel Register
 Desks), Baldwinville, N. Y.
 Mason, J. W. & Co., 436 Pearl, New York
 City, N. Y.
 Melchoir Bros. Furniture Co., 8 Dayton, Chi-
 cago, Ill.
 Meyer & Farrer, Carthage, N. Y.
 Michigan Order Work Furniture Co. (Ltd.),
 Grand Rapids, Mich.
 Minneapolis Desk Mfg. Co., Minneapolis, Minn.
 Minneapolis Office & School Furniture Co.,
 Minneapolis, Minn.
 Montgomery Table Works, Montgomery, Pa.
 Moon Desk Co. (Roll, Flat, Standing & Type-
 writer), Muskegon, Mich.
 Moore Mfg. Co., Springfield, Mo.
 Myrtle Furniture Co., High Point, N. C.
 Niagara Desk Co., Buffalo, N. Y.
 Northwestern Furniture Co., Milwaukee, Wis.
 Novelty Wood Work Co. (Inc.), Union City,
 Pa.
 Olsen, O. C. S. & Co., 240 Austin av, Chi-
 cago, Ill.
 Oregon Furniture Mfg. Co., Portland, Ore.
 Orpin Bros., Boston, Mass.
 Parker-Battle-Talbot Mfg. Co., Tullahoma,
 Tenn.
 Passow's, Chas. Sons, 196 Wash'n, Chicago,
 Ill.
 Peck & Hills Furniture Co., 1319 Michigan av,
 Chicago, Ill.
 Petersen, A. & Co., 21 Armour, Chicago, Ill.
 Queen Desk Co., Long Island City, N. Y.
 Quizley Furniture Co., The, Whitesboro, N. Y.
 Quincy Show Case Works, Quincy, Ill.
 Rabenau, Martin, Philadelphia, Pa.
 Rauch Manufacturing Co., 83 W Chicago av,
 Chicago, Ill.
 Rockwell-Wabash Co., 151 Wabash av, Chi-
 cago, Ill.
 Roehr, Charles Co., The, Bucyrus, O.
 Rowlett Desk Manufacturing Co., Richmond,
 Ind.
 St. Paul Furniture Co., St. Paul, Minn.
 Sargent Mfg. Co. (House & Ladies), Muskegon,
 Mich.
 Scherer, John C., Jr., Baltimore, Md.
 Schmidt, H. Sons Co., Keokuk, Ia.

Schwarzwaelder, L. A., Chichester, N. Y.
 Shaw-Walker Co., The, Muskegon, Mich.
 Shelbyville Desk Co., Shelbyville, Ind.
 Simonson, R. A. & Co., 135 Adams, Chicago
 Standard Furniture Co., Herkimer, N. Y.
 Tell City Desk Co., Tell City, Ind.
 Toledo Desk & Fixture Co., Toledo, O.
 Union Desk Co., Boston, Mass.
 Union Furniture Mfg. Co., Union, S. C.
 Utica Cabinet Co., Knoxville, Tenn.
 Valley City Desk Co., Grand Rapids, Mich.
 Vaught, H. C. Sons & Co., Parker, Ind.
 Vetter Desk Works, Rochester, N. Y.
 Wagemaker Furniture Co., The, Grand Rapids,
 Mich.
 Weiss, Joseph & Bros., Philadelphia, Pa.
 Western Furniture Co., St. Louis, Mo.
 Winnebago Furniture Manufacturing Co., Fond-
 du-Lac, Wis.
 Winneberger, George & Son, Philadelphia, Pa.
 Winter, M. Lumber Co., Sheboygan, Wis.
 Winston Furniture Co., Winston Salem, N. C.
 Witte, J. C., Manufacturing Co., Minneapolis,
 Minn.
 Yawman & Erbe Mfg. Co., Rochester, N. Y.

*Desk Slides

STANLEY WORKS (Wrought Steel),
 New Britain, Conn., & 79 Chambers, New
 York. (See adv. index, end of book)

Desks (Metallic)

(See Bank & Office Fixtures, Metallic)

Detectors (Ground)

Boston Electric Co. (Battery), 29 Harrison, Bos-
 ton, Mass.
 Fort Wayne Electric Works, Fort Wayne, Ind.
**GENERAL ELECTRIC CO., Schene-
 tady, N. Y., & 44 Broad, New York.** (See
 adv. index & branch offices, end of book)
 Keystone Electrical Instrument Co., 901 Mont-
 gomery av, Philadelphia, Pa.
 S. E. I. Co., Syracuse, N. Y.
 Western Electric Co., 259 S. Clinton, Chicago,
 Ill., & 57 Bethune, N. Y.
 Weston Electrical Instrument Co., Waverly
 Park, Newark, N. J.
 Whitney Electrical Instrument Co., Penacook,
 N. H.

Detectors (Water Waste)

Pitometer Co., 220 B'way, New York

Devulcanizers

AITON MACHINE CO., 126 Liberty,
 New York. (See adv. index, end of book)
 Birmingham Iron Foundry, Derby, Conn.
 Clark, Eldred W., Hartford, Conn.
 Thropp, Wm. R., Trenton, N. J.

*Dials (Clock, Gauge, Scale, Etc.)

**SALO ART METAL CO. (Etched
 Metal), 462 E. 136th, New York** (See adv.
 index, end of book)
**ELECTRO CHEMICAL ENGRAVING
 Co. (Inc.) (Etched Metal), 450 19th, Brooklyn,
 N. Y.** (See adv. index, end of book)

Dials (Meter)

(See Dials, Clock, Gauge, Scale, Etc.)

Diamonds (Black)

(See Black Diamonds)

Diamonds (Glaziers')

Dickinson, Jno., 64 Nassau, New York
 Grant, Hugh, 62 Commonwealth av, Cleveland,
 O.
 Sinsz Co., Philip, Baltimore, Md.
 Van Moppes & Sou, 87 Nassau, New York

Diaphragms (Car)

Acme Supply Co., Chicago, Ill.
 Adreon & Co., Security bldg, St. Louis, Mo.
 Quincy-Manchester-Sargent Co. ("Ajax"), Old
 Colony bldg, Chicago, Ill., & 114 Liberty,
 New York
 Ward, E. J. Co. ("Ajax," made from Cotton
 Belting), 100 Lake, Chicago, Ill.
 Wood, G. S. & Co. ("Acme," Sewed or Sewed
 & Riveted), 100 Lake, Chicago, Ill.

Diaphragms (Rubber)

**BOSTON BELTING CO., 260 Devon-
 shire, Boston, Mass.** (See adv. index &
 branch offices, end of book)
 Diamond Rubber Co., Akron, O.
 Goodrich, B. F. Co., Akron, O.
 Morgan & Wright (Inc.) (High and Low Pres-
 sure, etc.), 226 Jefferson av, Detroit, Mich.
 Seward Rubber Co., Berlin, Conn.
 Voorhees Rubber Co., Jersey City, N. J.

Die Block Steel.

(See Steel Mfrs., Tool)

Die Sinkers

Adriance Machine Works, Brooklyn, N. Y.
 Billings & Spencer Co., Hartford, Conn.
**BLISS, E. W. CO., 19 Adams, Brook-
 lyn, N. Y.** (See adv. index, end of book)
 Clapp, E. D. Mfg. Co., Auburn, N. Y.
 Cleveland Galvanizing Works, Cleveland, O.
 Crowe Metal Mfg. Co., 71 W Jackson boul,
 Chicago, Ill.
 Globe Machine & Stamping Co., Cleveland, O.
 Hay-Budden Mfg. Co., 254 N Henry, Brook-
 lyn, N. Y.
 Hibbard, W. H. Mfg. Co., Brooklyn, N. Y.
 Keystone Drop Forge Works, Chester, Pa.
 Konigslow, E. Stamping & Tool Works, Cleve-
 land, O.
 Leffler, Chas. & Co., Brooklyn, N. Y.
**NIAGARA MACHINE & TOOL
 Works, Buffalo, N. Y.** (See adv. index,
 end of book)
**PERKINS MACHINE CO., Warren,
 Mass.** (See adv. index, end of book)
 Pratt & Whitney Co., Hartford, Conn.
 Richard Mfg. Co., Bloomsburg, Pa.
 Schwerdtle Stamp Co., Bridgeport, Conn.
 Standard Machinery Co., Providence, R. I.
 V. & O. Press Co., Glendale Station, L. I.
 Waterbury Farrel Foundry & Machine Co., Wat-
 erbury, Conn.
 Wheeling Mold & Foundry Co., Wheeling, W.
 Va.
 Wilson & Smith, Worcester, Mass.

Dies

(Under this heading see sub-classifications.)

Dies (Adjustable Expanding)

**AMERICAN TAP & DIE CO. ("Adam-
 atine," "Temper" & "Eagle Brand"),
 Greenfield, Mass.** (See adv. index, end of
 book)
**BLISS, E. W. CO., 19 Adams, Brook-
 lyn, N. Y.** (See adv. index, end of book)
Card, S. W. Mfg. Co. (Round), Mansfield, Mass.
 Carpenter, J. M. Tap & Die Co., Pawtucket,
 R. I.
 Consolidated Press & Tool Co., 96 N Clinton,
 Chicago, Ill.
 Gardam, Wm. & Son (Inc.), 45 Rose, New York
 Leffler, Chas. & Co., Brooklyn, N. Y.
 Modern Tool Co. (Self Opening), Erie, Pa.
**MORSE TWIST DRILL & MACHINE
 Co., New Bedford, Mass.** (See adv. index,
 end of book)
**PERKINS MACHINE CO., Warren,
 Mass.** (See adv. index, end of book)
 Pratt & Whitney Co., Hartford, Conn.
 Reece, E. F. Co., Greenfield, Mass.
 Saunders, D. Sons, Youkers, N. Y.
 Smith, Chas. A., Germantown, Phila., Pa.
 Standard Machinery Co., Providence, R. I.
**TOLEDO PIPE THREADING MA-
 chine Co., Toledo, O.** (See adv. index, end of
 book)
 Wiley & Russell Mfg. Co. (Round), Granfield,
 Mass.
 Winter Bros. Co. (Round), Wrentham, Mass.

Dies (Automatic)

**BLISS, E. W. CO., 19 Adams, Brook-
 lyn, N. Y.** (See adv. index, end of book)
 Consolidated Press & Tool Co., 96 N Clinton,
 Chicago, Ill.
 Gardam, Wm. & Son (Inc.), 45 Rose, N. Y. city
 Geometric Tool Co., New Haven, Conn.
 Hartford Machine Screw Co., Hartford, Conn.
 Jones & Lamson Machine Co., Springfield, Vt.
 Leffler, Chas. & Co., Brooklyn, N. Y.
**PERKINS MACHINE CO., Warren,
 Mass.** (See adv. index, end of book)
 Scott & Sons Co. (Expanding), Medford, Mass.
 Standard Machinery Co., Providence, R. I.
 V. & O. Press Co., Glendale Station, L. I.,
 N. Y.

Dies (Blanking)

Baird Machine Co., Oakville, Conn.
BLISS, E. W. CO., 19 Adams, Brook-
 lyn, N. Y. (See adv. index, end of book)
 Consolidated Press & Tool Co., 98 N Clinton,
 Chicago, Ill.
 Gardam, Wm. & Sons (Inc.), 45 Rose, N. Y. city
 Globe Machine & Stamping Co., Cleveland, O.
 Hatheway Mfg. Co., Bridgeport, Conn.
NIAGARA MACHINE & TOOL
 Works, Buffalo, N. Y. (See adv. index,
 end of book)
 Sackman, Walter L., Akron, O.
 Standard Machinery Co., Providence, R. I.
 V. & O. Press Co., Glendale Station, Long
 Island, N. Y.

Dies (Bolt Threading)

AMERICAN TAP & DIE CO. ("Ea-
 gle Brand," Solid), Greenfield, Mass. (See
 adv. index, end of book)
ARMSTRONG MFG. CO., Bridgeport,
 Conn., & 139 Centre, New York. (See adv.
 index, end of book)
BAY STATE TAP & DIE CO. (Ma-
 chine or Solid Bolt), Mansfield, Mass. (See
 adv. below)
 Brown, H. B. Co., East Hampton, Conn.
 Brubaker, W. L. & Bros. (Solid), Millersburg,
 Pa.
 Card, S. W. Mfg. Co., Mansfield, Mass.
 Carpenter, J. M., Tap & Die Co. (Solid Boynt-
 on & Plummer), Pawtucket, R. I.
 Holroyd & Co. (Round Adjustable & Square
 Solid), Waterford, N. Y.
MORSE TWIST DRILL & MACHINE
 Co., New Bedford, Mass. (See adv. index,
 end of book)
 Polk, A. J. & Son, Millersburg, Pa.
 Reece, E. T. Co., Greenfield, Mass.
 Wiley & Russell Mfg. Co. (Solid, Round &
 Square), Greenfield, Mass.
 Winter Bros. Co. (Solid Square), Wrentham,
 Mass.

Dies (Box Printing)

American Name Plate Co., 352 Atlantic av.,
 Boston, Mass.
 Becker, August Engraving Co., 247 Atlantic
 av., Boston, Mass.
 Borgstrom, G. J., 72 S Canal, Chicago, Ill.

***Dies (Breast)**

PERKINS MACHINE CO. (Metal
 Mass. (See adv. index, end of book)

Dies (Brick & Clay Workers')

American Clay Machinery Co., Bucyrus, &
 Willoughby, O.
 Fernholtz Brick Machinery Co., Boyle & Man-
 chester avs, St. Louis, Mo.
 Means Foundry & Machine Co., Steubenville, O.
 Steele, J. C. & Son, Statesville, N. C.
 Stevenson Co., Wellsville, O.

Dies (Can Makers')

Ams, Max Machine Co., Mount Vernon, N. Y.
 Astoria Iron Works (Inc.), Astoria, Oreg.
 Ayars Machine Co., Salem, N. J.

***Dies (Ceiling)**

PERKINS MACHINE CO. (Metal
 Work), Warren, Mass. (See adv. index, end
 of book)

Dies (Chilled Hammer)

Pittsburg Mfg. Co., 28th & R. R., Pittsburg, Pa.
 Sterritt, Thomas, Foundry Co., 32d & Smallman,
 Pittsburg, Pa.

Dies (Cutting)

Adams, John J. (For Leather, Cloth, Rubber,
 Paper, etc.), Worcester, Mass.
 Adriance Machine Works, 254 Van Brunt,
 Brooklyn, N. Y.
 Advance Mfg. Co., Racine Junction, Wis.
 American Die & Tool Co., Reading, Pa.
 American Hardware Mfg. Co., Ottawa, Ill.
 Avery Stamping Co., Cleveland, O.
 Baird Machine Co., Oakville, Conn.
 Beaudry, T. J., 86 South, Boston, Mass.
 Beuder, Ph. J. & Sons, 87 Frankfort, New York
BLISS, E. W. CO., 19 Adams, Brook-
 lyn, N. Y. (See adv. index, end of book)
 Butterfield & Co., Derby Line, Vt.
 Chesterman, F. E. & Co., 125 N 7th, Phila.,
 Pa.
 Cleveland Stamping & Tool Co., Hamilton av.
 cor. E. 53d, Cleveland, O.
 Collins, Emmons, 20 W Randolph, Chicago, Ill.
 Consolidated Press & Tool Co., 98 N Clinton,
 Chicago, Ill.
 Dewes, A. (Cutting), 243 Centre, N. Y.
 Ferracute Machine Co. (Sheet Metal), Bridge-
 ton, N. J.
 Gardam, Wm. & Son (Inc.), 45 Rose, N. Y. city
 Gem Mfg. Co., Spruce av. n. 33d, Pittsburg, Pa.
 Glen Rock Stamping Co., Glen Rock, Pa.
GRAMMES, L. F. & SONS, Allentown,
 Pa. (See adv. index, end of book)
 Hibbard, W. H. Mfg. Co., 79 Washington,
 Brooklyn, N. Y.
 Hilles & Jones Co., Wilmington, Del.
 Hoggson & Pettis Mfg. Co., New Haven, Conn.
 Ideal Mfg. Co., 20 W Randolph, Chicago
 Keene, G. C. & Co., 2327 Florence, Cincinnati.
 Leffler, Charles & Co., Brooklyn, N. Y.
 Loyd, Jno. C. Co., 558 Water, New York
 Milwaukee Cutting Die Co. (Cutting for Gloves,
 Shoes, Envelopes, etc.), Milwaukee, Wis.
NIAGARA MACHINE & TOOL WORKS,
 Buffalo, N. Y. (See adv. index, end of
 book)
 Peck, Stow & Wilcox Co., 27 Murray, New
 York, & Southington, Conn.
PERKINS MACHINE CO., Warren,
 Mass. (See adv. index, end of book)
 Perry, Andrews & Co., Brockton, Mass.
 Pratt & Whitney Co., Hartford, Conn.
 Randall & Co. (Leather Cutting), Cincinnati,
 Ohio
 Ranz Stamping Tool Co., 522 Spruce, St. Louis,
 Richard Mfg. Co., Bloomsburg, Pa.
 Riley-Klots Mfg. Co., 17 Mulberry, Newark,
 N. J.
 Ross-Mayer Mfg. Co., Cincinnati, O.
 Royal Machine Co., 61 N. J. R. R. av., New-
 ark, N. J.
 Rudman Iron Foundry Co., 49 Hermon, Newark,
 N. J.
 Schatz Hardware Mfg. Co., Chappaqua, N. Y.
 Schlueter, A. & Co., 297 Wash'u, Newark, N. J.
 Seecamp, H. D. Mach. Co., 305 Gratiot, St.
 Louis, Mo.
 Sigourney Tool Co., Hartford, Conn.
 Skareen, John A., 30 Abbott, Detroit, Mich.
 Smith, Ira B., Bristol, Conn.
 Standard Machinery Co., Providence, R. I.
 Stone, Thos. & Geo. M., Mulberry & Murray,
 Newark, N. J.
 Stortz, John & Son, 210 Vine, Phila., Pa.
 Swaine, F. J. Co., St. Louis, Mo.
 Toledo Machine & Tool Co., Toledo, O.
 Tucker, W. W. & C. F., 302 Asylum, Hartford,
 Conn.
 V. & O. Press Co., Glendale Station, Long
 Island, N. Y.
 Voelkner & Reinke Mfg. Co., 123 W Woodbridge,
 Detroit, Mich.
 W. & S. Mfg. Co., Worcester, Mass.
 Webster & Perks Tool Co., Springfield, O.
WELLS BROS. CO., Greenfield, Mass.
 (See adv. index, end of book)
 White, L. & I. J. Co., Buffalo, N. Y.
 Wootten & Peckworth, 207 Quarry, Phila., Pa.

***Dies (Drop Forging)**

AMERICAN BRAKE SHOE & FOUN-
 dry Co. (Steel), Mahwah, N. J.; 170 B'way,
 New York, & Western Union bldg, Chicago,
 Ill. (See adv. index & branch offices, end
 of book)
 Crucible Steel Co. of America ("La Belle"),
 Frick bldg, Pittsburg, Pa.

Dies (Embossing)

Adriance Machine Works, Brooklyn, N. Y.
 American Name Plate Co., 352 Atlantic av, Bos-
 ton, Mass.
 Becker, A. Engraving Co., 247 Atlantic av,
 Boston, Mass.
BLISS, E. W. CO., 19 Adams, Brook-
 lyn, N. Y. (See adv. index, end of book)
 Consolidated Press & Tool Co., 98 N Clinton,
 Chicago, Ill.
 Gardam, Wm. & Son (Inc.), 45 Rose, New York
 City
GRAMMES, L. F. & SONS, Allentown,
 Pa. (See adv. index, end of book)
 Hibbard, W. H. Mfg. Co., Brooklyn, N. Y.
 Leffler, Charles & Co., Brooklyn, N. Y.
 Ness, Geo. M., Jr., 61 Fulton, New York
NIAGARA MACHINE & TOOL WORKS,
 Buffalo, N. Y. (See adv. index, end of book)
 Schwerdtle Stamp Co., Bridgeport, Conn.
 Skareen, Jno. A., 30 Abbott, Detroit, Mich.
 Standard Machinery Co., Providence, R. I.
 V. & O. Press Co., Glendale Station, L. I.,
 N. Y.

Dies (Engraved Soap)

Houchin & Huber, 35 53d, Brooklyn, N. Y.

Dies (Forming)

Bender, Ph. J. & Son, 87 Frankfort, New York
 Gardam, Wm. & Son (Inc.), 45 Rose, New York
 Globe Machine & Stamping Co. (Sheet Metal),
 Cleveland, O.
 Hatheway Mfg. Co., Bridgeport, Conn.
 Konigslow, E. Stamping & Tool Works, 184
 Champlain, Cleveland, O.
 National Machine & Tool Co., 253 A, Boston,
 Mass.
NIAGARA MACHINE & TOOL WORKS
 Buffalo, N. Y. (See adv. index, end of book)
 Sackman, Walter L., Akron, O.
PERKINS MACHINE CO., Warren,
 Mass. (See adv. index, end of book)
 Swaine, F. J. Co., St. Louis, Mo.
 Waterbury Machine Co., Waterbury, Conn.

***Dies (Gas Fixture)**

AMERICAN TAP & DIE CO. (Taps &
 Dies), Greenfield, Mass. (See adv. index,
 end of book)

***Dies (Gas Oven)**

PERKINS MACHINE CO., Warren,
 Mass. (See adv. index, end of book)

Dies (Glove Cutting)

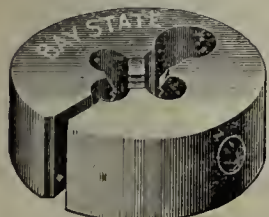
(See Glove Machinery)

***Dies (Gong)**

PERKINS MACHINE CO., Warren,
 Mass. (See adv. index, end of book)

***Dies (Machine or Solid Bolt)**

MORSE TWIST DRILL & MACHINE
 Co., New Bedford, Mass. (See adv. index,
 end of book)



ROUND DIES

FOR TURRET LATHE AND SCREW MACHINES

Bay State Tap & Die Co., Mansfield, Mass.

***Dies (Oblong Combination)**

PERKINS MACHINE CO., Warren,
Mass. (See adv. index, end of book)

Dies (Opening)

Geometric Tool Co. (Self Opening), New Haven, Conn.
Ideal Opening Die Co., 24 West, New York

PERKINS MACHINE CO., Warren,
Mass. (See adv. index, end of book)

Pratt & Whitney Co., Hartford, Conn.
Tucker, W. W. & C. F. (Automatic), 302 Asylum, Hartford, Conn.

WELLS BROS. CO. ("Little Giant"),
Greenfield, Mass. (See adv. index, end of book)

Wiley & Russell Mfg. Co., Greenfield, Mass.

Dies (Pipe)

AMERICAN TAP & DIE CO., Green-
field, Mass. (See adv. index, end of book)

ARMSTRONG MFG. CO., Bridgeport,
Conn., & 139 Centre, New York. (See adv. index, end of book)

ASHCROFT MFG. CO., 85 Liberty,
New York

Brubaker, W. L. & Bros. (Solid Gas Pipe), Millersburg, Pa.

Card, S. W., Mfg. Co., Mansfield, Mass.
Carpenter, J. W. Tap & Die Co. (Square, Solid, Round), Pawtucket, R. I.

Crane Co. (Est. 1855), 519 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)

Curtis & Curtis Co., Bridgeport, Conn.
Eaton, Cole & Burnham Co., 253 B'way, New York

Hayes-Harrison (Adjustable), Portland, Me.
Holroyd & Co., Waterford, N. Y.

MORSE TWIST DRILL & MACHINE
Co. (Solid), New Bedford, Mass. (See adv. index, end of book)

Polk, A. J. & Son (Solid), Millersburg, Pa.
Pratt & Whitney Co., Hartford, Conn.

Reece, E. F. Co., Greenfield, Mass.
Saunders, D. Sons, Yonkers, N. Y.

TOLEDO PIPE THREADING MA-
chine Co., Toledo, O. (See adv. index, end of book)

Walworth Mfg. Co. ("Hill's"), 132 Federal, Boston, Mass.

Wells, F. E. & Son Co. ("Economy"), Greenfield, Mass.

Winter Bros. Co. (Solid Square), Wrentham, Mass.

Dies (Press)

Adriance Machine Works, 254 Van Brunt,
Brooklyn, N. Y.

BLISS, E. W. CO., 19 Adams, Brook-
lyn, N. Y. (See adv. index, end of book)

Columbia Novelty Mfg. Co. (Power & Press),
1537 N B'way, St. Louis, Mo.

Consolidated Press & Tool Co., 98 N Clinton,
Chicago, Ill.

Gardam, Wm. & Son, 45 Rose, New York City

Hibbard, W. H. Mfg. Co., Brooklyn, N. Y.
Hoggson & Pettis Mfg. Co., New Haven, Conn.

LEFFLER, CHAS. & CO., 63 CLYMER, BROOKLYN,
N. Y.

NIAGARA MACHINE & TOOL WORKS
Buffalo, N. Y. (See adv. index, end of book)

Smith, Thos. & Co., Worcester, Mass.
Standard Machine Co., Providence, R. I.

V. & O. Press Co., Glendale Station, L. I., N. Y.

Walworth Mfg. Co., 132 Federal, Boston, Mass.

Dies (Punching)

Adriance Machine Works, 254 Van Brunt,
Brooklyn, N. Y.

American Die & Tool Co., Reading, Pa.
Baird Machine Co., Oakville, Conn.

BLISS, E. W. CO., 19 Adams, Brook-
lyn, N. Y. (See adv. index, end of book)

CLEVELAND PUNCH & SHEAR
Works Co., 1306 E. 40th, Cleveland, O. (See adv. index, end of book)

Consolidated Press & Tool Co., 98 N Clinton,
Chicago, Ill.

Gardam, Wm. & Son, 45 Rose, New York City
Globe Machine & Stamping Co. (Sheet Metal), Cleveland, O.

Hibbard, W. H. Mfg. Co., Brooklyn, N. Y.
Kingslow, E. Stamping & Tool Works, 184 Champlain, Cleveland, O.

Leffler, Chas. & Co., 63 Clymer, Brooklyn, N. Y.

Lovejoy Tool Works, 90 Ohio, Chicago, Ill.

NIAGARA MACHINE & TOOL WORKS
Buffalo, N. Y. (See adv. index, end of book)

Peck, Stow & Wilcox Co., 27 Murray, New York, & Southington, Conn.

PERKINS MACHINE CO., Warren,
Mass. (See adv. index, end of book)

Pratt & Whitney Co., Hartford, Conn.
Standard Machinery Co., Providence, R. I.

Stortz, Jno. & Son, 210 Vine, Phila., Pa.
Swaine, F. J. Co., St. Louis, Mo.

V. & O. Press Co., Glendale Station, L. I., N. Y.

Wiedeke, Gustav & Co. (Rivet Punches & Dies), Dayton, O.

Dies (Rubber)

Adamson, Alex., Akron, O.
Williams Foundry & Machine Co., Akron, O.

Dies (Screw Cutting)

BAY STATE TAP & DIE CO., Mans-
field, Mass. (See adv. on preceding page)

Butterfield & Co., Derby Line, Vt.
Card, S. W. Mfg. Co., Mansfield, Mass.

Geometric Tool Co. (Self-Opening & Adjustable), New Haven, Conn.

Reece, E. F. Co., Greenfield, Mass.
WELLS BROS. CO. ("Little Giant"),
Greenfield, Mass. (See adv. index, end of book)

Wiley & Russell Mfg. Co., Greenfield, Mass.

Dies (Screw Plate)

BAY STATE TAP & DIE CO., Mans-
field, Mass. (See adv. on preceding page)

Billings & Spencer Co., Hartford, Conn.
Butterfield & Co., Derby Line, Vt.

Card, S. W. Mfg. Co., Mansfield, Mass.
MORSE TWIST DRILL & MACHINE
Co., New Bedford, Mass. (See adv. index, end of book)

Reece, E. F. Co., Greenfield, Mass.
WELLS BROS. CO. ("Little Giant"),
Greenfield, Mass. (See adv. index, end of book)

Dies (Self-Opening)

(See also Dies, Opening)

Allen, Chas. G. Co. ("Diamond"), Barre, Mass.
Modern Tool Co. ("Wallace's Adjustable"), Erie, Pa.

Dies (Sheet Metal, Etc.)

(See Dies, Stamping; also Dies, Cutting)

Dies (Solid)

BAY STATE TAP & DIE CO., Mans-
field, Mass. (See adv. on preceding page)

Card, S. W. Mfg. Co., Mansfield, Mass.
Eaton, Cole & Burnham Co., Bridgeport, Conn.

MORSE TWIST DRILL & MACHINE
Co. (For Boynton & Plummer's Bolt Cutters & for Pipe), New Bedford, Mass. (See adv. index, end of book)

Mount Carmel Bolt Co., Mount Carmel, Conn.
Pratt & Whitney Co. ("Giant" Adjustable), Hartford, Conn.

Dies (Solid Bolt)

(See Dies, Bolt Threading)

Dies (Spring or Prong)

Carpenter, J. M., Tap & Die Co., Pawtucket, R. I.

Wiley & Russell Mfg. Co., Greenfield, Mass.

Dies (Stamping)

Adriance Machine Works, Brooklyn, N. Y.
American Can Co., 135 Adams, Chicago, Ill.

American Die & Tool Co., Reading, Pa.
Avery Stamping Co., Cleveland, O.

Baird Machine Co., Oakville, Conn.
BLISS, E. W. CO., 19 Adams, Brook-
lyn, N. Y. (See adv. index, end of book)

CLEVELAND PUNCH & SHEAR
Works Co., 1306 E. 40th, Cleveland, O. (See adv. index, end of book)

Cleveland Stamping & Tool Co., Hamilton av., cor. E. 53d, Cleveland, O.

Consolidated Press & Tool Co., 96-100 N. Clinton, Chicago, Ill.

ELMES, CHAS. F., ENGINEERING
Works, cor. Fulton & N. Sangamon, Chicago, Ill. (See adv. index, end of book)

Erdle & Schnebeck, Rochester, N. Y.
Gem Mfg. Co., Spruce nr. 33d, Pittsburg, Pa.

Glen Rock Stamping Co., Glen Rock, Pa.
Globe Machine & Stamping Co., Cleveland, O.

Hatheway Mfg. Co., Bridgeport, Conn.
Hibbard, W. H., Mfg. Co., 79 Wash'n, Brooklyn, N. Y.

Hilles & Jones Co., Wilmington, Del.
Kilborn & Bishop Co., New Haven, Conn.

Kingslow, E., Stamping & Tool Works, 323 Champlain av., N. E., Cleveland, O.

Leffler, Chas. & Co., 61 Clymer, Brooklyn, N. Y.
MOSSBERG, FRANK, CO., Attleboro,
Mass. (See adv. index, end of book)

NIAGARA MACHINE & TOOL WKS.,
Buffalo, N. Y. (See adv. index, end of book)

PERKINS MACHINE CO., Warren,
Mass. (See adv. index, end of book)

Philadelphia Roll & Machine Co., E. 23d & Wash'n av., Philadelphia, Pa.

Richard Mfg. Co., Bloomsburg, Pa.
Schatz Hardware Mfg. Co., Chappaqua, N. Y.

Standard Machinery Co., Providence, R. I.
Swaine, Fred. J., Co., 13 N. 7th, St. Louis, Mo.

V. & O. Press Co., Glendale Station, Boro. of Queens, N. Y.

W. & S. Mfg. Co., Worcester, Mass.
Williams, J. H. & Co., 150 Hamilton av., Brooklyn, N. Y.

Wilson & Smith, Worcester, Mass.
WORCESTER PRESSED STEEL CO.,
Worcester, Mass. (See adv. index, end of book)

***Dies (Steam Hammer)**

AMERICAN BRAKE SHOE & FOUN-
dry Co. (Steel), Mahwah, N. J.; 170 B'way, New York, & Western Union Bldg., Chicago, Ill. (See adv. index & branch offices, end of book)

***Dies (Stencil Cutting)**

Ness, George M., Jr., 61 Fulton, New York.
Smith, R. H. Mfg. Co., 293 Main, Springfield, Mass.

***Dies (Stove Pipe)**

PERKINS MACHINE CO., Warren,
Mass. (See adv. index, end of book)

Dies (Thread Cutting)

(See Dies, Screw Cutting)

Dies (Wire Drawing)

Bassanger, Jacques & Co., 108 Fulton, N. Y.
DESSAU'S, S. SONS ("Diamond"), 180
B'way, New York. (See adv. index, end of book)

Hartley, Geo., Waterbury, Conn.
McFarland Foundry & Machine Works, Trenton, N. J.

Newman, C. Wire Co., 143 Liberty, New York.
Newton, J. W. (also Blanks & Wortles), 81 John, New York

Philadelphia Roll & Machine Co. (Cast Chilled), S. 23d & Wash'n av., Phila., Pa.

Roux & Co. ("Diamond"), Waterbury, Conn.
Steel Set Diamond Co., 150 Nassau, New York.

Waldeck, Anthony, 2283 B'way, Cleveland, O.
Waterbury Wire Die Co., Waterbury, Conn.

***Dies (Wiring)**

PERKINS MACHINE CO., Warren,
Mass. (See adv. index, end of book)

Digesters

AMERICAN PROCESS CO. (& Cook-
ers), 62 William, New York. (See adv. index, end of book)

Atlantic Works, 70 Border E. B., Boston, Mass.
Dempwolf, O. H. & Co., York, Pa.

Dillon, D. M., Fitchburg, Mass.
Eastwood Wire Mfg. Co. ("Perfection" Bronze for Paper Mills), Belleville, N. J.

Houchin & Huber, 35 53d, Brooklyn, N. Y.
McNeil Boiler Co., Akron, O.

Munroe, R. & Sons Corporation, 23d & Smallman, Pittsburg, Pa.

PETROLEUM IRON WORKS CO.,
(Pulp), Washington, Pa., & Farmers' Bank Bldg., Pittsburg, Pa. (See adv. index, end of book)

Petty, J. K. & Co. (Lebanon Boiler Works, Lebanon, Pa.)

Pollock, Wm. B. Co. (Of Large Capacity & Pressure for Pulp Mills), Youngstown, O.

Portland Co. (For Sulphite Mills), Portland, Me.

Pusey & Jones Co. (Riveted Sulphate), Wilmington, Del.
 Riter-Conley Mfg. Co., Pittsburg, Pa., & 111 B'way, New York
 Smith, Theodore & Sons Co., ft. of Essex, Jersey City, N. J.
 Stuart & Peterson Co., Burlington, N. J.
 Tippet & Wood, Phillipsburg, N. J.
UNITED STATES DRYING ENGINEERING Co. (Automatic Steam), 66 Beaver, New York. (See adv. index, end of book)

Diggers (Beet)

Avery, B. F. & Sons, Louisville, Ky.
 Bucher & Gibbs Plow Co. (The Michigan), Canton, O.
 Parlin & Orendorff, Canton, Ill.

Diggers (Post Hole)

Aspinwall Mfg. Co., Jackson, Mich.
 Avery Stamping Co. ("Never-Break"), Cleveland, O.
 Baldwin Forging & Tool Co., Columbus, O.
 Boltou, John S., Moline, Ill.
 Buckeye Mfg. Co., Canton, O.
 Disston, Henry & Sons (Inc.), Tacony, Phila., Pa., & 75 W Washington, Chicago, Ill.
 Empire Plow Co. ("Champion"), Ensley, Ala., & Cleveland, Ohio
 Eureka Digger Co., 142 Huron, Chicago, Ill.
 Gibbs Mfg. Co., Canton, O.
 Hubbard & Co., Pittsburg, Pa.
 Iwan Bros., Streator, Ill.
 Jackson Shovel & Tool Co. ("Montpelier," "Automatic," "Badger," "Solid"), Montpelier, Ind., & Market & Randolph, Chicago, Ill.
 Klein-Logan Co., S 13th & Breed, Pittsburg, Pa.
 Kohler, F. E. & Co. ("Universal," "Little Giant," "Hercules," "Invincible," "Rival" & "Pioneer"), Canton, O.
 Ludlow-Saylor Wire Co., St. Louis, Mo.
 Ney Mfg. Co., Canton, O.
 Ney, V. L. Co., Canton, O.
 Ohio Brass Co., Mansfield, O.
 Oliver Iron & Steel Co., Pittsburg, Pa.
 Pittsburg Tool & Drop Forge Co. ("Cheswick"), Cheswick, Pa.
 Porter, J. E. Co., Ottawa, Ill.
 Rockford Tack & Nail Co., Rockford, Ill.
 Tucker & Dorsey Mfg. Co., Indianapolis, Ind.
 Vaughn & Bushnell Mfg. Co. ("V. & B."), 875 W Carroll av, Chicago, Ill.
 Western Steel Gate Co., Two Rivers, Wis.

Diggers (Potato)

Allen, S. L. & Co. (White or Sweet Potato), Philadelphia, Pa.
 American Fork & Hoe Co., Main Office, Cleveland, O.
 Aspinwall Mfg. Co., Jackson, Mich.
 Avery, B. F. & Sons, Louisville, Ky.
 Babcock Mfg. Co. (Cummings), "Elenotor", Leonardsville, N. Y.
 Belcher & Taylor Agricultural Tool Co., Chippewa Falls, Mass.
 Bradley, David Mfg. Co., Bradley, Ill.
 Bristol & Gale Co., 110 Washington Boul, Chicago, Ill.
 Brown, Peter & Son ("Brown"), Greeley, Colo.
 Bucher & Gibbs Plow Co., Canton, O.
 Champion Potato Machinery Co. (Two Horse), Deere & Co., Moline, Ill.
 Deshay, D. H. ("Star"), Elysburg, Pa.
 Dowden Mfg. Co. (Also Sorters & Cutters), Prairie City, Ia.
 Drummond Plow Co., Asheville, N. C.
 Excelsior Machine Co., Cohoes, N. Y.
 Gowanda Agricultural Works ("Hamburg," "Knox" Riding), Gowanda, N. Y.
 Greenberg, Edward ("Greenberg"), Arlington Heights, Ill.
 Greenville Implement Co., Greenville, Mich.
 Keystone Farm Machine Co. ("Success, Jr."), Hist Mfg. Co., Barberton, O.
 Hover-Prout Co., Avery Ohio.
 Messinger Mfg. Co. ("The Champion"), Tatamy, Pa.
 Moline Plow Co. ("Moline Knocker"), Moline, Ill.
 Parlin & Orendorff Co., Canton, Ill.
 Peru Plow & Wheel Co., Peru, Ill.
 Racine-Sattler Co., Springfield, Ill.
 Rock Island Plow Co., Rock Island, Ill.
 Schofield & Co., Freeport, Ill.
 Shangle, John R., Hightstown, N. J.
 Star Mfg. Co. (Wood or Steel Beam), Carpenter-Sterling Mfg. Co., Sterling, Ill.
 Wallace & Ireland, Spencerport, N. Y.

Diggers (Stubble)

Avery, B. F. & Sons, Louisville, Ky.
 Deere & Mansur Co., Moline, Ill.
 Hall, Jas. H., Plow Co., Maysville, Ky.
 Moline Plow Co. ("Cap't Lafayette"), Moline, Ill.

Dimmers (Theatre)

American Elec. Heating Corp., Cambridge, Mass.
CUTLER-HAMMER MFG. CO. ("C. & H." Ironclad), Milwaukee, Wis. (See adv. index & branch offices, end of book)
 Ohio Electric Specialty Mfg. Co., Troy, O.
 Simplex Electrical Co., 110 State, Boston, Mass.
 Ward, Leonard Electric Co., Bronxville, N. Y.
 Western Electric Co., 259 S Clinton, Chicago, Ill., & 57 Bethune, New York
 Wirt Electric Co., Gtn. & Sedgely av, Phila., Pa.

*Directories for Office & Loft Buildings

TABLET & TICKET CO., 87 Franklin, Chicago, Ill., & 381 B'way, New York, (See adv. index, end of book)

*Dirt Removers (Vacuum Sweeping System)

GENERAL COMPRESSED AIR & Vacuum Machinery Co., 4469 Olive, St. Louis, Mo. (See adv. index, end of book)
VACUUM CLEANER CO., 427 5th av, New York. (See adv. index, end of book)

Discs (Armature)

Avery Stamping Co., Lake c Coe, Cleveland, O.
 Cleveland Armature Works (Armature Discs & Shafts), Hamilton c Coe, Cleveland, O.
GENERAL ELECTRIC CO., Schenectady, N. Y. (See adv. index & branch offices, end of book)
 Hendrick Mfg. Co., Carbondale, Pa.
 Wilson & Smith, 40 Vine, Worcester, Mass.

Discs (Friction)

Houghton, E. F. & Co. ("Vici" Leather), 240 W Somerset, Phila., Pa.

Discs (Iron & Steel)

Nicetown Plate Washer Co., Nicetown, Phila., Pa.

Discs (Radiator)

Bliss-Chester Co., 31 Mathewson, Providence, R. I.
 Briscoe Mfg. Co., 1427 Woodward av, Detroit, Mich.
 Globe Machine & Stamping Co., 970 Hamilton, Cleveland, O.

Discs (Slate)

McNamara Bros., Fair Haven, Vt.

Discs (Valve)

American Hard Rubber Co., 9 Mercer, N. Y.
BOSTON BELTING CO., 260 Devonshire, Boston, Mass. (See adv. index & branch offices, end of book)
 Bushnell, Jno. S. Co. (Tuf Metal), 123 Liberty, Goodrich, B. F. Co., Akron, O.
 Libby Valve & Packing Co., 147 Varick, New York
 Morgan & Wright (Inc.), ("Morgauite"), 226 Jefferson av, Detroit, Mich.
 Nichols Mfg. Co., 225 Dearborn, Chicago, Ill.
 Peerless Rubber Co., 16 Warren, New York
 Republic Rubber Wks., Youngstown, O.
 Seward Rubber Co., Berlin, Conn.
STRONG MACHINERY & SUPPLY CO. ("Strong's I. O. P."), 48 Franklin, New York. (See adv. index, end of book)
 Western Rubber Wks., Goshen, Ind.

Dishes (Chafing)

Buffalo Mfg. Co., Buffalo, N. Y.
 Goodwin & Kintz Co., Winsted, Conn.
 Griswold Mfg. Co. (Aluminum), Erie, Pa.
 Lalance & Grosjean Co. (Enameled), 19 Cliff, New York
 Manning, Bowman & Co., Meriden, Conn.
 Republic Metalware Co. (Aluminum), Buffalo, N. Y., & 21 Cliff, New York
 Sternau, S. & Co., 195 Plymouth, Brooklyn, N. Y.
 Sweeney, W. H. Mfg. Co. ("Royal," Copper & Nickel Plated, etc.), 66 Water, Brooklyn, N. Y.
 Wallace, R. & Sons Mfg. Co., Wallingford, Conn.

Dishes (Paper)

Weston Paper & Mfg. Co. (Plain & Fluted), Dayton, O.

Dishes (Wood)

Weston Paper & Mfg. Co. (Wire End & Oval), Dayton, O.

Disinfectants

Am. Aromatic Disinfectant, 123 Greenwich av, New York
 Am. Disinfecting Co., 571 5th av, New York
 Antozone Chemical Co., 25 Coenties sl, New York
 Armitage Mfg. Co. (Paint), Richmond, S. I.
 Atlantic Refining Co., Cleveland, O.
 Barrett Mfg. Co., Philadelphia, Pa.
 Bromo-Chloralum Co., 175 Front, New York
 Bromo Chloralum Co., Pittsfield, Mass.
 Brownson Chemical Co., Providence, R. I.
 Burch & Co., F. S., Chicago, Ill.
 Chemical Mfg. Co., Minneapolis, Minn.
 Coal Tar Products Co. (Smith & Creamer), Brooklyn, N. Y., & 77 Maiden la, N. Y.
 Columbia Insecticide Co., 544 Columbus av, New York
 Crenol Chemical Co., 130 Lexington av, New York
 Crenoline Mfg. Co., 1727 Olive, St. Louis, Mo.
 Crescent Chemical Co., Omaha, Neb.
 Cromwell-Walker Co., Kearney, N. J.
 Delaney Oil & Lubricant Co., Milwaukee, Wis.
 Durfee Embalming Fluid Co., Grand Rapids, Mich.
 Dusenberry, H. C., 95 Gold, New York
 Eagle Oil & Supply Co. ("Eagleine"), 104 Broad, Boston, Mass.
 Egyptian Chemical Co., Boston, Mass.
 Embalmers Supply Co., Westport, Conn.
 Empire Embalming Fluid Co., 141 B'way, New York
 Farbenfabrikenof Elberfeld Co. ("Antinonnin"), 40 Stone, New York
 Fitch Chemical Co., Bay City, Mich.
 Fuerst Bros. & Co., 2 Stone, New York
 Godfrey Disinfectant & Chemical Co., St. Louis.
GROSCHKE, BRUNO & CO., 30 Old Slip, New York. (See adv. index, end of book)
 Hess Disinfecting Co., 111 Greenwich av, New York
 Houghton, E. F. & Co. ("Houghton" Oderless), 240 Somerset, Phila., Pa.
 Hygeia Chemical Co., 27 W 24th, New York
 Hygeia Naphthol Co., 149 Mercer, New York
 Indianapolis Chemical Co., Indianapolis, Ind.
 Jenkins Mfg. Co., Boston, Mass.
 Kathario Chemical Co., 137 Hudson, New York
 Leonard Disinfectant Co., Providence, R. I.
 Lyons Disinfecting Co., 82 Greenwich av, New York
 Masury, Young & Co., 196 Milk, Boston, Mass.
 Monahan Antiseptic Co., 1133 B'way, New York
 National Disinfectant Co., Cincinnati, O.
 National Disinfecting Co., 306 E 59th, New York
 Ohio Paint & Varnish Co. ("Superior" Liquid), Findlay, O.
 Omnia Chemical Co., 60 Cortlandt, New York
 Parke, Davis & Co., Detroit, Mich.
 Phinotas Chemical Co., 237 Front, New York
 Pine-Ozone Co., 256 W 23d, New York
 Platt, Henry B., 42 Cliff, New York
 Prescott Chemical Co., Cleveland, O.
 Preservative Mfg. Co., 41 Warren
 Pulsford, A. J., 97 Water, New York
 Rath Mfg. Co. ("Rathola" Liquid), 2d, Hancock & Laurel, Phila., Pa.
 Red Cross Hygienic Co., Chicago, Ill.
 Robachers' Disinfectant Co., 77 Kenil av, Rochester, N. Y.
 Robbins Chemical Co., 505 W 50th, New York
 Rochester Germicide Co., 107 Chambers, New York
 Rochester Germicide Co., Rochester, N. Y.
 Sanitas Co., 640 W 55th, New York
 Sultan Disinfectant Co., 210 E 54th, New York
 Syracuse Ext. Co., Syracuse, N. Y.
 Summerville Fernoline Works, Summerville, S. C.
 Soudan Specialty Mfg. Co., Milwaukee, Wis.
 Thompson, Nuhring Chemical Co., Cincinnati, O.
 United Breeders Co. of America (Inc.), 151 E Kinzie, Chicago, Ill.
 United Disinfecting Co., 210 E 35th, New York
 Vapo-Cresoline Co., 180 Fulton, New York
 Walker Chemical Works, Harrison, N. J.
 Weller Mfg. Co., Milwaukee, Wis.
 Werner & Simonson, Cincinnati, O.
 West Disinfecting Co. (Inc.), 9 E 59th, New York
 West Disinfecting Co., Cincinnati, O.
 West Disinfecting Co., Philadelphia, Pa.
 West Disinfecting Co., E 59th, New York
 West Disinfecting Co., Wabash av, Chicago, Ill.
 White Tar Co., 101 N Moore, New York

Disinfecting Apparatus

(See also Machinery, Disinfecting)

Bernstein Mfg. Co. (For Hospitals), 3d & Westmoreland, Phila., Pa.
Hydro-Pneumatic Disinfecting Co., 221 Mercer, New York
Nuhring, Chas., 907 Walnut, Cincinnati, O.

Disintegrators

American Clay Machinery Co. (Clay), Bucyrus, & Willoughby, O.
Brewer, H. & Co. (Clay), Tecumseh, Mich.
Campbell, Peter F. (Mill), 51 Laurel, Phila., Pa.
Chambers Bros. Co. (Clay), 52d, bel. Lancaster av, Phila., Pa.

CODD, E. J. CO. (For Fertilizer Plants), 700-708 S. Caroline, Baltimore, Md.
(See adv. index, end of book)

Day, J. H. Co., 1144 Harrison av, Cincinnati, O., & 76 Park pl, New York
Horton Mfg. Co. (Clay), Painesville, O.
Houchin & Huber, 39 53d, Brooklyn, N. Y.

JEFFREY MFG. CO. (Coal, etc.), Columbus, O. (See adv. index & branch offices, end of book)

Leader Mfg. Co. (Clay), Decatur, Ill.
Link Belt Co. (For Coal, etc.), W. 39th cor. Stewart av, Chicago, Ill., & 299 B'way, New York

Marquette, Jno. N., 507 S Eden, Baltimore, Md.
Martin, Henry Brick Machine Mfg. Co. (Clay), Lancaster, Pa.

Paxson, J. W. Co. (Sand), 1021 N. Del. av, Phila., Pa.
Potts, C. & A. & Co. (Clay), Indianapolis, Ind.
Rockwood Mfg. Co., Indianapolis, Ind.

Ross, Chas. & Son Co., 20 Steuben, Brooklyn, N. Y.
Ross-Keller Triple Pressure Brick Machine Co., Fullerton bldg, St. Louis, Mo.

STANDARD SAND & MACHINE CO. (Sand, Standard Centrifugal), 5151 St. Clair, Cleveland, O. (See adv. index, end of book)

Stedman's Foundry & Machine Works (Clay), Aurora, Ind.

Steele, J. C. & Son, Statesville, N. C.
STROUD, E. H. & CO., 36 La Salle, Chicago, Ill.

Walker & Elliott, Wilmington, Del.
Wellington Machine Co. (Clay), Wellington, O.

Distilling Apparatus

Flynn, W. S., 74 Hudson, Jersey City, N. J.
Hoffman-Ahlers Co., Cincinnati, O.
Squier, Geo. L. Mfg. Co. (Copper, etc.), Buffalo, N. Y.

Vulcan Copper Works Co. (Copper, etc.), 465 E Front, Cincinnati, O.

Ditcher, Grader & Loader Combined

American Road Machine Co., Kennett Square, Pa.
Indiana Road Machine Co., Fort Wayne, Ind.
Marion Steam Shovel Co., Marion, O.
Western Wheeled Scraper Co., Aurora, Ill.

Ditching Machines

(See Ditching Machines in Machinery Lists; also Road Machines & Graders.)

Divers (Submarine)

Alaska Co., Seattle, Wash.
Boston Towboat Co., 131 State, Boston, Mass.
Bundick, Jno. S., 49 South, New York
Christensen, E. T., 130 Pearl, New York
Craemer, Fred., 1220 Beach, Philadelphia, Pa.
Dunham Towing & Wrecking Co., 210 S Water, Chicago

Jenks, Edward B. Co., 143 Liberty, New York
Larkin, Peter, 3 Coenties Slip, New York.
Lowe, Edward R., 806 Herkimer, Brooklyn, N. Y.

Merritt & Chapman Derrick & Wrecking Co., 17 Battery pl, New York
Nickerson, Jas. E. & Co., 195 Atlantic av, Boston, Mass.

Phillips, H. W., 16 Devonshire, Boston, Mass., & Quincy, Mass.

Quinn, J. S. & Co., 15 W Atwater, Detroit, Mich.
Scott, Thos. A. Co., New London, Conn.
Sorenson, Alfred, 36 Atlantic av, Boston, Mass.

Townsend, Geo. W., 202 Atlantic av, Boston, Mass.

Webster, Frank W., 169 Princeton, Boston, Mass.
Wolter, H., 318 Walnut, Phila., Pa.

Dividers

(See also Compasses.)

Athol Machine Co. ("Premier" & "A. M. C."), Athol, Mass.

Brown & Sharpe Mfg. Co., Providence, R. I.
Eagan, Thos. F. ("Copeland & Cook" Expansion), Worcester, Mass.

Johnson, Wm. (Hedberg Works), ("Cook's" Pattern Expansion Wing, etc.), Newark, N. J.

Schollborn, Wm. Co. ("Excelsior"), New Haven, Conn.
Starrett, L. S. Co., Athol, Mass.

Welles, F. A., 419 Sycamore, Milwaukee, Wis.

Dividers for Moulding Knives

Fosby, Chas. (Proportional), Rutherford, N. J.

Diving Apparatus

Hale, Alfred Rubber Co., 387 E 8th, S. B., Boston, Mass.

Merrill-Stevens Engineering Co., Jacksonville, Fla.
Morse, A. J. & Son (Inc.), 221 High, Boston, Mass.

Schrader's, A. Son., 30 Rose, New York

Dock Builders

CALIFORNIA.

SAN FRANCISCO—American Dredging Co., 6 East
Atlantic Gulf & Pacific Co., Monadnock bldg
City Street Improvement Co., 17th & Harrison

Healy-Tibbetts Construction Co., Mission st dock or Mason & North Point

Hyde, Harjes & Co., 13 Steuart
Laydon, Darby, 219 Steuart

McMahon, James A., 13 Steuart
Pacific Construction Co., 17 Spear
San Francisco Bridge Co., Monadnock bldg

Thomson Bridge Co., 174 Spear
Wakefield, Robert, 178 Spear

CONNECTICUT.

BRIDGEPORT—Blakeman, M. A., 985 Stratford av
Toole & Sunderlin, 83 Fairfield av

NEW HAVEN—Waterhouse, C. R., 40 Park
NEW LONDON—Scott, Thomas A. Co.

DELAWARE.

NEW CASTLE—Lunt, Ira
WILMINGTON—Wills, F. K., Construction Co.

FLORIDA.

JACKSONVILLE—Cotter, Wm. T.

GEORGIA.

SAVANNAH—Ross, P. S., 16 Bryan, E

ILLINOIS.

CHICAGO—Barry Bros. Dock Co., E end Mich.
Byrne, Thos. S., 100 Washington
Calumet & Chicago Canal & Dock Co., 135 Adams

Chicago Canal & Dock Co., 34 Clark
Great Lakes Dredge & Dock Co., Chamber of Commerce bldg

Fitzsimons & Connell Co., 1014 Tacoma bldg
Kearns, T. A. Co., 279 Dearborn
STEWART, JAS. & CO., Fisher bldg

LOUISIANA.

NEW ORLEANS—**STEWART, JAS. & CO.**

MAINE.

PORTLAND—Bennett, W. F. & Son

MARYLAND.

BALTIMORE—Glenn, Benj., 2300 E Baltimore
McLean Contracting Co., Maryland Trust bldg

Maryland Dredging & Contracting Co., Fidelity bldg
Sanford & Brooks Co., 15 South

MASSACHUSETTS.

BOSTON—Cavanagh, Geo. H., 166 Devonshire
Cram, D. Henry, 23 Power
Derry, Chas. T. & Co., 68 Devonshire

Ellis, W. H., 17 Milk
Hayes, Geo. & Co., 168 Devonshire
Hersey, A. A., 362 Border

Lawler Bros., 16 City sq, Ch's'm
Miller, Wm. L., 166 Devonshire
Norton, W. A., 285 Dorchester av

Rendle, W. S. Co., 135 Prescott
Ross, Joseph & Sons, 28 School
Ruggles, Thos. E., 95 Milk

Scully, Jno. T. & Bro., 95 Milk
Tidd, L. R., 166 Devonshire

BROOKLINE—Cheney, E. R. (Est. of), 80 Pleasant
FALL RIVER—Terry, Jos. C., 564 Durfee

MICHIGAN.

DELRAY—Boston, Chas. & Son
DETROIT—Candler Dock & Bridge Bldg. Co., 26 Lafayette av

Dupuis, A. J. Co., Buhl blk
Griffin, M. J., 104 Lafferty pl

MARQUETTE—Powell & Mitchell
SAULT STE. MARIE—Great Lakes Dredge & Dock Co.

MINNESOTA.

DULUTH—Duluth Engineering Co., Palladio bldg
Duluth-Superior Dredging Co., ft 6th av, W
Great Lakes Dredge & Dock Co.

ST. PAUL—Butler Bros. Construction Co., Globe bldg

MISSOURI.

ST. LOUIS—**STEWART, JAS. & CO.,** Lincoln Trust bldg

NEW JERSEY.

CAMDEN—Henhoeffer & Vaughn, c Delaware & Vine

Sweeten, B. F. & Son, Cooper & Delaware
ELIZABETH—N. J. Dock & Bridge Building Co.

JERSEY CITY—Ross, P. S., 277 Wash'n
Stillman, F. M. Co., 26 Exchange pl
United Contractors Corporation

PERTH AMBOY—Hanson Jacob

NEW YORK.

ALBANY—Fuller's, Wm. Sons, Chapel c Sheridan av

BUFFALO—Buffalo Dredging Co., D. S. Morgan bldg

Chapman, A. F. & Co., Prudential bldg
Harbrecht, Louis, 379 Plymouth av
Leh, Jeremiah H., 52 Exchange

Lake Erie Dredging Co., D. S. Morgan bldg
Parks, Geo. & Sons, 217 15th
KINGSTON—Powley, Jos. L., 1 Ponckhockle

NEWBURGH—Parrott, Richard, 355 B'way

NEW YORK CITY.

Borough of Brooklyn.

BROOKLYN—Cronin, Barth S. & Co., 573 Clinton
Humphreys, George, 575 Clinton

Kirkham, H. P. & Son, ft of Conover
Leary, Jas. D. & Son, Provost nr Eagle
McGrath, John, 231 Eagle

Walsh, John D., 397 Hancock

Boroughs of Manhattan & Bronx

NEW YORK—Atlantic Gulf & Pacific Co., Park Row bldg

Brooks & Tilley, 138th & 3d av
Brunswick Dock & City Improvement Co., 20 Broad

Degnon Contracting Co., 60 Wall & 218 E 42
Du Bois, Henry Sons Co., 17 State
Empire Eng. Corporation, 111 B'way

General Contracting & Engineering Co., 15 Whitehall

Foundation Co. (Engineers & Contractors, Concrete Piles & Steel & Wooden Sheetings), 35 Nassau

Gillies, Campbell Co., 1 Madison av
Hazell, Arthur M., 11 B'way
Hood, R. H. Co., 299 B'way

Jenks, Wm. H., 129 Pearl
Rockland Construction Co., 8 Bridge
Miller, John J., 81 New

Monks, John & Sons, 82 Beaver
Rockland Construction Co., 8 Bridge
Rockland Construction Co., 20 Broad
Rogers, G. W. & Co., 44 B'way
Rolf, Bernard, 39 Cortlandt
Spearin & Preston, 17 Battery pl
Staats, R. P. & J. H., 29 B'way
Steers, Henry (Inc.), 17 Battery pl
STEWART, JAS. & CO., 135 B'way

Borough of Queens.

LONG ISLAND CITY—Hart, Hugh, 150 Pear-sall

Borough of Richmond.

PORT RICHMOND—Conklin, Hiram M., Rich-mond ter
STAPLETON—Hall, Albert

(END OF NEW YORK CITY)

WATERVLIET—Benjamin, Thos., 1501 7th av
YONKERS—Pearsall, C. E. & Son

OHIO.

ASHTABULA—Devney, H. J. & J. P.
Laird, J. D. & Sons
CLEVELAND—Great Lakes Dredge & Dock Co.
Hunkin Bros. Construction Co., Cuyahoga bldg
Smith, L. P. & J. A. Co., Williamson bldg
Standard Contracting Co., Wade bldg
Strong, Chas. H. & Son, Cuyahoga bldg
TOLEDO—Chicago & Great Lakes Dredge & Dock Co., Neptune bldg
Conrad, E. E., 446 Water
Great Lakes Dredge & Dock Co.
Montville, Louis W., 440 1st

PENNSYLVANIA.

OHIO—Roberts, Edward H.
Williams, J. J. & Co.
PHILADELPHIA—American Dredging Co., Mariner & Merch't bldg
Atlantic Dredging Co., Girard bldg
Armstrong & Latta, Land Title bldg
Brenneman, J. E., 1523 S Front
Rotan, I. F., 307 S 41st
PITTSBURG—Enterprise Contracting Co., Ful-ton bldg
Murphy, T. B., 1105 Bell
Pittsburg Dredging & Construction Co., 1107 Bell
STEWART, JAS. & CO., Westing-house bldg.

RHODE ISLAND.

PROVIDENCE—Hunter, A. & Co., 70 Arcade
SAUNDERSTOWN—Saunders, Stillman
WESTERLY—Davis, John F., 55 Clark

SOUTH CAROLINA.

CHARLESTON—Kramer, B. F., 60 Meeting
Pregnall, Henry N., 209 Calhoun

TENNESSEE.

MEMPHIS—Lynch, W. J.

VIRGINIA.

NORFOLK—Murray, W. D. & Co.
Sanford & Brooks
URBANNA—Wagner & Bro.

WASHINGTON.

SEATTLE—International Contract Co., N. Y. blk
Puget Sound Bridge & Dredging Co., Scan-dinavian-Amer. Bank bldg
Puget Sound Timber P. Co., Globe blk
Robinson, D. A., Bailey bldg
Seattle Bridge Co., Pacific blk
United States Blowpipe & Hydraulic Works, Pacific blk

WISCONSIN.

MANITOWOC—Kieth, J. H. & Co.
MILWAUKEE—Hathaway, J. E. & Co., Canal, W 1st av
Starke, C. H. Dredge & Dock Co., Canal W
SUPERIOR—Schmidt Bros. 1st av
Whitney Bros., 1st c Hugitt av

Dogs (Bent Tail)

Le Count, Wm. G., S. Norwalk, Conn.

Dogs (Bolt)

Le Count, Wm. G., S Norwalk, Conn.

Dogs (Chain)

Hayden-Corbett Chain Co., Columbus, O.

Dogs (Clamp)

Armstrong Bros. Tool Co., 104 N San Francisco av, Chicago, Ill.
Billings & Spencer Co. (drop forged), Hartford, Conn.
Fitchburg Machine Works, Fitchburg, Mass.
Le Count, Wm. G., Steel & Malleable Iron, South Norwalk, Conn.

Dogs (Die)

Billings & Spencer Co. (Drop Forged), Hart-ford, Conn.
Fitchburg Machine Works, Fitchburg, Mass.
Putnam Machine Co., Fitchburg, Mass.

Dogs (Lathe)

Armstrong Bros. Tool Co., 104 N San Francisco av, Chicago, Ill.
Ayes & Co. ("Le Count" Pattern), 57 Ellen, Chicago, Ill.
Besly, Chas H. & Co. (Heavy Steel), 15 S. Clin-ton, Chicago, Ill.
Billings & Spencer Co. (Drop Forged), Hartford, Conn.
Bonney Vise & Tool Works (Briuton Adjustable & Indispensable Drop Forged, etc.), 3015 Chestnut, Phila., Pa.
Chester Steel Castings Co., Chester, Pa., & 407 Sansom, Phila., Pa.
Hill Standard Mfg. Co. ("Hill" Drop Forged), Anderson, Ind.
Krus, Andrew F. & Co., 943 Elston av, Chic-go, Ill.
Le Count, Wm. G. (Double Tail Heavy Steel), South Norwalk, Conn.
Mark Mfg. Co., Evanston, Ill.
O. K. Tool Holder Co., Shelton, Conn.
Phoenix Hardware Mfg. Co., Homer, N. Y.
Western Tool & Mfg. Co. ("It" Drop Forged), Springfield, O.
WILLIAMS, J. H. & CO. (Drop Forged), 150 Hamilton av, Brooklyn, N. Y. (See adv. index, end of book)

Dogs (Rafting)

CARPENTER, GEO. B. & CO., 202 S. S Water, Chicago, Ill. (See adv. index, end of book)
Champion Tool & Handle Works, Evert, Mich.
New Castle Forge & Bolt Co. (also chain), New Castle, Pa.
Southern Supply Co. (Rafting), Mobile, Ala.
Zelnicker, Walter A. Supply Co. (Chain & Ring), 408 N 4th, St. Louis, Mo.

Dogs (Ring)

Hayden-Corbett Chain Co. ("Baltimore"), Colum-bus, O.
New Castle Forge & Bolt Co., New Castle, Pa.

Dogs (Saw Mill)

ALLIS-CHALMERS CO., Milwaukee. Wis. (See adv. index and branch offices, end of book)
AMERICAN BRAKE SHOE & FOUN-dry Co., Mahwah, N. J.; 170 B'way, New York; & Western Union bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
American Sawmill Machinery Co. ("American" Giant Duplex & "Knight's"), 114 Liberty, New York. Works: Hackettstown, N. J.
Atkins, E. C. & Co. (Inc.), Home Offices & Factories, Indianapolis, Ind.
Bangor Edge Tool Co. (The Peavy), Bangor, Me.
Canton Saw Co., Canton, O.
Curtis & Co. Mfg. Co., St. Louis, Mo.
Diamond Iron Works ("Diamond & Ditten-benner"), Minneapolis, Minn.
Disston, Henry & Sons, Tacony, Phila., Pa.
Farquhar, A. B. Co. (Ltd.), York, Pa.
Filler & Stowell Co., Home Office, Milwaukee, Wis.
Fisher & Davis ("Knights"), 1024 N Main, St. Frick Co., Waynesboro, Pa. Louis, Mo.
Garland, M. Co. (Double Grip), Bay City, Mich.
Henderson, W. K. Iron Works & Supply Co., Shreveport, La.
Hill, W. E. & Co. (Double Tooth), Kalamazoo, Mich.
Hinds, Thos., Malone, N. Y.

Howell, R. R. & Co., 30th av & S E 5th, Minne-Knight Mfg. Co., Canton, O. apolis, Minn.
LANE MFG. CO., Montpelier, Vt. (See adv. index, end of book)
Lippert, E. T. Saw Mfg. Co., Millvale Station, Allegheny, Pa.

Phoenix Mfg. Co., Eau Claire, Wis.
Rockwood Mfg. Co., Indianapolis, Ind.
Sinker-Davis Co., 230 S Missouri, Indianapolis, Ind.

Soule Steam Feed Works, Meridian, Miss.
Southern Engine & Boiler Works (Inc.), Jack-son, Tenn.
Southern Supply Co., Mobile, Ala.
Standard Saw Mill Machinery Co., Erie, Pa.
Stearns Mfg. Co., Erie, Pa.
Wheland Machine Works, Chattanooga, Tenn.
Wickes Bros., Saginaw, Mich.
Zelnicker, Walter A. Supply Co., 408 N 4th, St. Louis, Mo.

*Dogs (Stone)

CARLIN'S, THOS. SONS CO., 1300 River av, Allegheny, Pa. (See adv. index, end of book)

Dogs (Straight Tail)

Bonney Vise & Tool Works (Inc.) (Steel), 3015 Chestnut, Phila., Pa.
Le Count, Wm. G. (With Steel Screws), S. Norwalk, Conn.

Dogs (Timber)

American Iron & Steel Mfg. Co., Park bldg., Pittsburg, Pa. Works, Lebanon, Pa.
ANDERSON FORGE & MACHINE CO., 271 Guoin, Detroit, Mich. (See adv. index, end of book)
Baker, Jas. H. Mfg. Co., Tarentum, Pa.
CARPENTER, GEO. B. & CO., 202 S Water, Chicago, Ill. (See adv. index, end of book)
Champion Tool & Handle Works, Evert, Mich.
Kentucky Chain Co., Frankfort, Ky.
Metropolitan Bolt Co., 367 Congress, Boston, Mass.
New Castle Forge & Bolt Co. ("also Chain"), New Castle, Pa.
Old Dominion Iron & Nail Works Co., Richmond, Va.
Oliver Iron & Steel Co., Pittsburg, Pa.
Oshkosh Logging Tool Co., Oshkosh, Wis.
Standard Chain Co., Pittsburg, Pa.
Wickes Bros., Saginaw, Mich.

Dollies (Lumber)

ANDERSON, W. H. TOOL & SUPPLY CO., 14 Macomb, Detroit, Mich. (See adv. index, end of book)
Buda Foundry & Mfg. Co., Harvey, Ill.
CARPENTER, GEO. B. & CO., 202 S Water, Chicago, Ill. (See adv. index, end of book)
DOBBIE FOUNDRY & MACHINE CO., Main Office & Works, Niagara Falls, N. Y. (See adv. index & branch offices, end of book)
Gerlach, Peter Co., 1708 Columbus rd, Clevel-land, O.
Kilbourne & Jacobs Mfg. Co., Columbus, O.
Martin Machine Works, Meridian, Miss.
Morley Bros., Saginaw, Mich.
Parker Hoist & Machine Co., 971 N Francisco av, Chicago, Ill.
Soule Steam Feed Works, Meridian, Miss.
STANDARD SCALE & SUPPLY CO., 243 Water, Pittsburg, Pa. (See adv. index & branch offices, end of book)
Union Elevator & Machine Co., 144 Ontario, Chicago, Ill.

Door Bumpers

Ashtabula Mfg. Co. ("Hubbard's" Patent Metallic Seamless), Ashtabula, O.
Elastic Tip Co., 370 Atlantic av, Boston, Mass.

Door Check & Spring Mfrs.

Barnett, Oscar Foundry Co. ("Barnett Pneu-matic"), Newark, N. J.
Bardsley, Jos., 149 Baxter, New York

BOMMER SPRING HINGES

255 to 271 Classon av, Brooklyn, N. Y. (See adv. index, end of book)
Chicago Spring Butt Co., 54 Union Park pl, Chicago, Ill.
Corbin, P. F., New Britain, Conn.
General Specialty Co. ("Dorechek"), Harricon bldg., Phila., Pa.

Norton Door Check Co., 102 Pearl, Boston, Mass.
 Pryor, W. W. Hardware Mfg. Co., 23 Ashland, Newark, N. J.
 Pullman Mfg. Co., Rochester, N. Y.
 Reading Hardware Co. ("Ogden"), Reading, Pa.
 Rixson, Oscar C. Co. ("Rixson" Liquid), 111 W Harrison, Chicago, Ill.
 Russell & Erwin Mfg. Co., New Britain, Conn.; 45 Chambers, New York
 Sargent & Co., 94 Centre, N. Y., & New Haven, Conn.
 Sayre Mfg. Co. (John H. Graham & Co., Agts.), 113 Chambers, N. Y.
 Upson Nut Co., Unionville, Conn., & Cleveland, Ohio
 Yale & Towne Mfg. Co. ("Blount"), 9 Murray, New York. Works: Stamford, Conn.

*Door Closers

BOMMER SPRING HINGES

255 to 271 Classon ay, Brooklyn, N. Y.
 (See adv. index, end of book)

Door Hangers

Allith Mfg. Co. ("Reliable"), W Taylor c S 43d av, Chicago, Ill.
 Arcade Mfg. Co. ("New Warner," "Freeport" Parlor), Freeport, Ill.
 Atlas Hanger Co., 531 W 55th, New York
 Burkhardt, John (Bronze), 614 W 55th, New York
 Central City Bolt Co. ("The Barry"), Syracuse, N. Y.
 Chicago Spring Butt Co., 54 Union Park pl, Chicago, Ill.
CHISHOLM & MOORE MFG. CO., c Lake & Kirtland, Cleveland, O. (See adv. index, end of book)
COBURN TROLLEY TRACK MFG. CO., Holyoke, Mass. (See adv. index, end of book)
 Coleman Hardware Co. (Barn), 168 Michigan av, Chicago, Ill.
 Cronk & Carrier Mfg. Co., Elmira, N. Y.
 Dille & McGuire Mfg. Co. (Trackless), Richmond, Ind.
 Dix Mfg. Co. ("Dix" Noiseless), 1025 Guilford av, Baltimore, Md.
 Gardner-Champlin Co., First National Bank bldg, Chicago, Ill.
 Griffin Mfg. Co., Erie, Pa.
 Hendricks & Class, 25 W B'way, New York
 Hurst, H. L. Mfg. Co., Canton, O.
 Lane Bros. Co., Poughkeepsie, N. Y.
 Lawrence Bros. (also Roller Bearing), Sterling, Ill.
 Loudon Machinery Co., Fairfield, Ia.
McCABE HANGER MFG. CO. (Ball Bearing & Tubular), 425 W 25th, New York. (See adv. bottom of page)
 McKinney Mfg. Co. (Barn Door), Allegheny, Pa.
 Marcus & Son, Peoria, Ill.
 National Mfg. Co. ("Big 4" Flexible, Anti-Friction), Sterling, Ill.
 National Novelty Corporation, 826 B'way, New York
 Ney Mfg. Co., Canton, O.
 Payne, Wm. M. (Barn), Springfield, Ill.
 Peck, Stow & Wilcox Co., Southington, Conn.
 Penn Hardware Co., Reading, Pa.
 Perfect Sliding Door Co., Bridgeport, Conn.
 Prescott Hardware Mfg. Co., 78 Randolph, Chicago, Ill.
 Prouty, T. C. Co. (Ltd.) (Ball & Roller Bearing), Alblon, Mich.
 Reading Hardware Co., Reading, Pa.
RELANCE BALL BEARING DOOR Hanger Co. (Reliance Ball Bearing), 1 Madison av, New York. (See adv. on following page)
RICHARDS MFG. CO., (Ball Bearing), Aurora, Ill. (See adv. index & branch offices, end of book)
 Richards & Sencenbaugh Mfg. Co., Aurora, Ill.
 Richey, Browne & Donald (Crescent), Maspeth, Borough of Queens, New York City
 Roof, W. S. & Son (Sliding or Folding Door or Partition), Franklin, O.
 Safety Door Hanger Co. ("World's Best" & "Wizard" Adjustable), Ashland, O.
 Schwarz, S. D. & Co. ("Atlas"), 1133 B'way, New York
 Stowell Mfg. & Foundry Co. ("Wilbern Adjustable," "Ajax Hinged," "Matchless Loose Axle," "Nansen" & "Atlas" Roller Bearing), S. Milwaukee, Wis.
 Swett, A. L. Iron Works, Medina, N. Y.
 Swineford, G. A. Co., Canton, O.
 Victor Mfg. Co., Newburyport, Mass.

WILCOX MFG. CO. (Ball Bearing House), Aurora, Ill. (See adv. index, end of book)
 Wrightsville Hdware. Co., Wrightsville, Pa.
 Yale & Towne Mfg. Co., 9 Murray, New York; Works: Stamford, Conn.

*Door Hangers (Accordion or Folding)

McCABE HANGER MFG. CO., 425 W 25th, New York. (See adv. below)
RICHARDS MFG. CO. (Noiseless), Aurora, Ill. (See adv. index & branch offices, end of book)

*Door Hangers (Adjustable Track)

RICHARDS MFG. CO., Aurora, Ill. (See adv. index & branch offices, end of book)

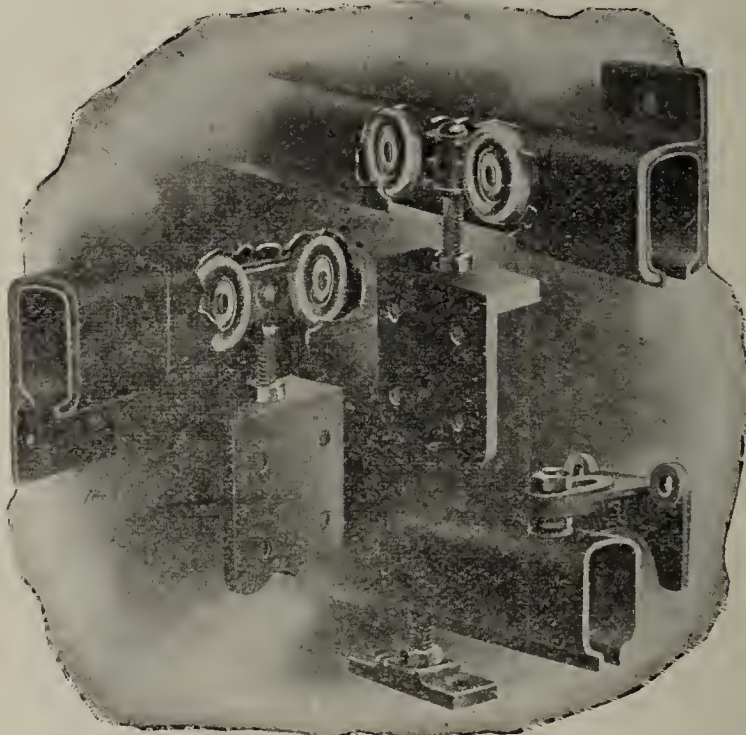
*Door Hangers (Auditorium)

COBURN TROLLEY TRACK MFG. CO., Holyoke, Mass. (See adv. index, end of book)
RICHARDS MFG. CO., Aurora, Ill. (See adv. index & branch offices, end of book)
WILCOX MFG. CO. (Folding), Aurora, Ill. (See adv. index, end of book)

Door Hangers (Barn or Warehouse)

Allith Mfg. Co. ("Reliable"), W Taylor c S 43d av, Chicago, Ill.
AMOS, CHARLES & CO. ("Amos"), Detroit, Mich. (See adv. index, end of book)
 Arnold Co. ("Arnold"), Norwalk, Conn.
 Chicago Spring Butt Co., 54 Union Park pl, Chicago, Ill.
CHISHOLM & MOORE MFG. CO. Lake & Kirtland, Cleveland, O. (See adv. index, end of book)
COBURN TROLLEY TRACK MFG. CO. ("Coburn"), Holyoke, Mass. (See adv. index, end of book)
 Coleman Hardware Co., 168 Michigan av, Chicago, Ill.
 Cronk & Carrier Mfg. Co. (Steel Roller Bearings & Loose Axle), Elmira, N. Y.
 Dix Mfg. Co. ("Dix" Noiseless), 1025 Guilford av, Baltimore, Md.

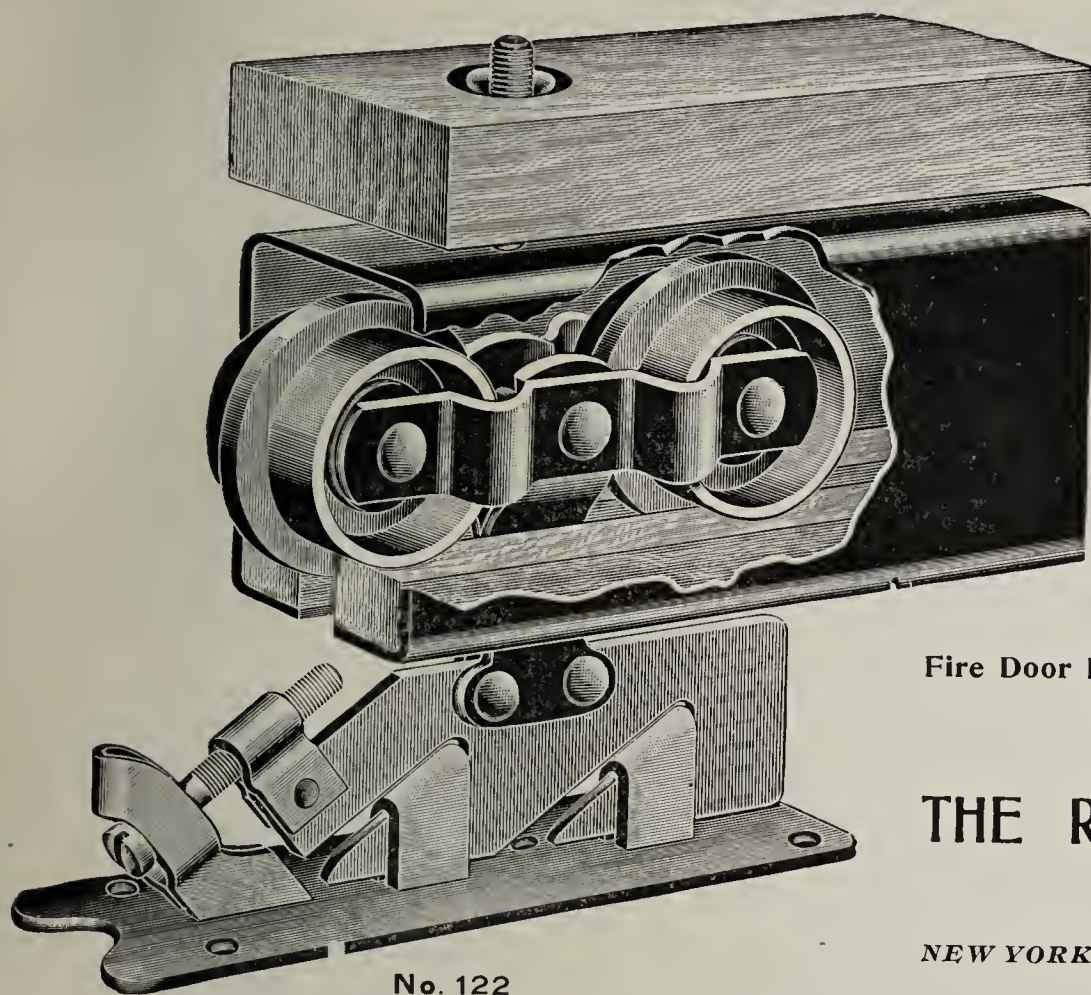
Griffin Mfg. Co., Erie, Pa.
 Hunt, Helm, Ferris & Co. ("Star," "U. S.," "Giant," "Knoxall," Plain & Ball Bearing), Hurst, H. L. Mfg. Co., Canton, O. Harvard, Ill.
 Kupferle, Jno. C., St. Louis, Mo.
 Lane Bros. Co., Poughkeepsie, N. Y.
 Law Mfg. Co. ("Peerless"), Prior & Oakley avs, St. Paul, Minn.
 Lawrence Bros. ("Clipper" also Roller Bearing), Sterling, Ill.
 Loudon Machinery Co. ("Louden," "Royal"), Fairfield, Ia.
McCABE HANGER MFG. CO. (Ball Bearing, etc.), 425 W 25th, New York. (See adv. below)
 McKinney Mfg. Co., Allegheny, Pa.
 Myers, F. E. & Bro. ("Stay On," "Sure Grip"), Ashland, O.
 National Mfg. Co. ("National," "Big 4" Flexible, Anti-Friction), Sterling, Ill.
 National Novelty Corporation, 826 B'way, New York
 New England Butt Co. ("New England"), Providence, R. I.
 Newhall, Henry B., 9 Murray, New York
 Ney Mfg. Co., Canton, O.
 Payne, Wm. M., Springfield, Ill.
 Peck, Stow & Wilcox Co. ("P., S. & W."), Southington, Conn.
 Penn Hardware Co., Reading, Pa.
 Pleuger & Henger Mfg. Co., St. Louis, Mo.
 Porter, J. E. Co. ("Can't get off" & "Porter"), Ottawa, Ill.
 Prouty, T. C. Co. (Ltd.) (Roller Bearing), Alblon, Mich.
 Racine Malleable & Wrought Iron Co. ("Wilbern"), Racine, Wis.
 Reading Hardware Co., Reading, Pa.
RELANCE BALL BEARING DOOR Hanger Co. ("Reliance" Ball Bearing), 1 Madison av, New York. (See adv. on following page)
RICHARDS MFG. CO. ("Richards" Ball Bearing), Aurora, Ill. (See adv. index & branch offices, end of book)
 Richey, Browne & Donald ("Crescent"), Maspeth, Borough of Queens, New York City
 Russell & Erwin Mfg. Co., New Britain, Conn.
 Safety Door Hanger Co. ("Safety," "Storm King," "World's Best," "U. S. Standard," "Wizard," "Adjustable"), Ashland, O.
 Sargent & Co., New Haven, Conn.
 Schreiber & Conchar Mfg. Co., Dubuque, Ia.
 Stevens Mfg. Co. ("Stevens"), Joliet, Ill.
 Stowell Mfg. & Foundry Co. ("Wilbern Adjustable," "Wild West" & "Matchless"), S. Milwaukee, Wis.
 Swett, A. L. Iron Works ("Pilot"), Medina, N. Y.
 Swineford, G. A. Co., Canton, O.



**Ball
 Bearing
 Door
 Hangers**
 for all kinds of
**Sliding
 Doors**

The McCabe Hanger Mfg. Co. 425-27 W. 25th Street
 NEW YORK

RICHARDS ROYAL



No. 122

House Door Hanger

Ball-Bearing Adjustment in both
hanger and track

Perfectly Noiseless

Conceded to be the best Trolley
Door Hanger on the market

We make Door Hangers for Sliding
Doors of every description

Fire Door Fixtures. Trolley Carrying Systems
and other Specialties.

SEND FOR COMPLETE CATALOGUE

THE RICHARDS MFG. CO.

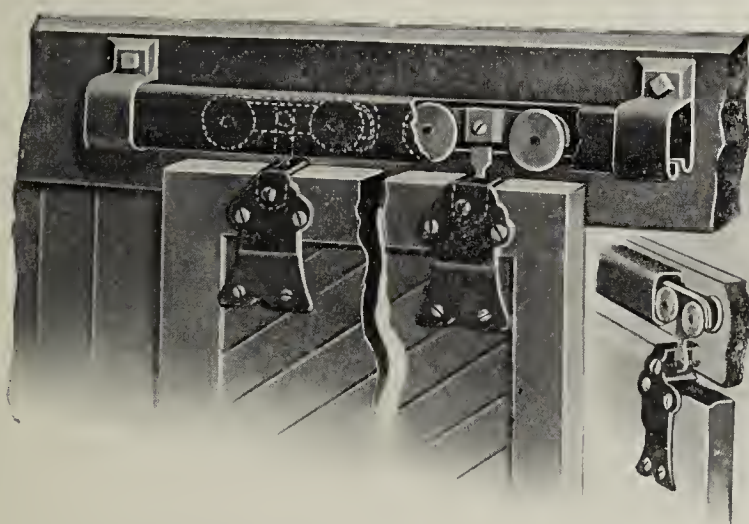
AURORA, ILL.

NEW YORK OFFICE, 101 Reade Street

CHICAGO OFFICE, 179 Lake Street

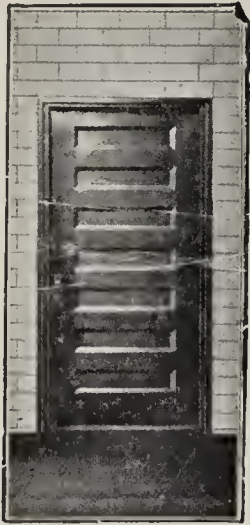
If the Track Has ROUND Troughs { IT'S COBURN
AND
THE BEST

Fixtures for
Sliding Doors
of all
Descriptions



Send for
No. 30
Catalogue

COBURN TROLLEY TRACK MFG. CO.
HOLYOKE, MASS.



"RICHARDSON" DOOR IN
FIRE PROOF PARTITION.

"RICHARDSON" FIREPROOF DOORS

"Make Each Room a Separate Building."

FINISHED OLD COPPER, BRASS OR GRAINED
RICHARDSON DOORS ARE SEAMLESS PAN-
ELED. ECONOMICAL IN MAINTENANCE AND
INSURANCE. A HANDSOME FIRE PROOF DOOR
AT COST COMPARING FAVORABLY WITH WOOD.



WOOD DOOR IN
FIRE PROOF PARTITION

COPPER ENTRANCE DOORS TO DETAIL.

THORP FIRE PROOF DOOR CO.

MINNEAPOLIS, MINN.



General Office and Works, Third and Fourth Avenues, Eighth and Tenth Streets, College Point.

JOHN W. RAPP

Sales Department,
4 MADISON AVENUE
NEW YORK

"Rapp" Copper Covered Window
Frames and Sash,

TO BE USED IN

City Investing Building, 34 Stories,
Broadway, Cortlandt and Church Sts.

Metropolitan Life Ins. Co. Tower, 46 Stories
Madison Ave. and 24th St.

Fireproof Metal Covered

DOORS, WINDOW FRAMES AND INTERIOR TRIM

Kalamein Iron, Copper and Bronze

STAMPED SEAMLESS DOORS

UNDERWRITERS DOORS AND SHUTTERS

Taylor & Boggs' Foundry Co., Cleveland, O.
 Union Mfg. Co. ("Union"), New Britain, Conn.
 Victor Mfg. Co., Newburyport, Mass.
WILCOX MFG. CO. ("Cracker-Jack,"
 "L.-T.," "O.-K.," "Wilcox," "Wilcox-
 Spencer," "Wilcox-Tandem," "Wilcox-Stay-
 On" Trolley Roller Bearings, etc.), Aurora,
 Ill. (See adv. index, end of book)
 Wrightsville Hardware Co., Wrightsville, Pa.

Door Hangers (Car)

CHISHOLM & MOORE MFG. CO.,
 (Baggage Door), Lake & Kirtland, Cleve-
 land, O. (See adv. index, end of book)
 Kanaly, M. E. Co., Cambridgeport, Mass.
McCABE HANGER MFG. CO. (Ball-
 Bearing, etc.), 425 W 25th, New York. (See
 adv. on preceding page)
RELiance BALL BEARING DOOR
 Hanger Co. ("Reliance" Ball Bearing), Mad-
 ison av, New York. (See adv. below)

Door Hangers (Elevator)

Atlas Hanger Co. ("Atlas" Ball Bearing, etc.),
 531 W. 55th, New York.
CHISHOLM & MOORE MFG. CO., c
 Lake and Kirtland, Cleveland, O. (See adv.
 index, end of book)
 Lane Bros. Co., Poughkeepsie, N. Y.
McCABE HANGER MFG. CO. (Ball-
 Bearing, etc.), 425 W 25th, New York. (See
 adv. on preceding page)
RELiance BALL BEARING DOOR
 Hanger Co. ("Reliance"), 1 Madison av, New
 York. (See adv. below)
RICHARDS MFG. CO., Aurora, Ill.
 (See adv. index & branch offices, end of book)
 Stowell Mfg. & Foundry Co. (Loose Axle &
 Roller Bearing), S Milwaukee, Wis.
WILCOX MFG. CO. (Roller Bearing,
 etc.), Aurora, Ill. (See adv. index, end of
 book)
WISCONSIN IRON & WIRE WORKS,
 190 E Water, Milwaukee, Wis. (See adv.
 index, end of book)

Door Hangers (Fire)

Allith Mfg. Co. (Automatic), W Taylor c S 43d,
 av, Chicago, Ill.
 Brewer Bros. (Sliding), 614 Filbert, Phila., Pa.
 Lane Bros. Co., Poughkeepsie, N. Y.
McCABE HANGER MFG. CO. (Ball
 Bearing, etc.), 425 W 25th, New York. (See
 adv. on preceding page)
 Newhall, Henry B., 9 Murray, New York
 Peters, Jas. & Son (Sliding), 1934 N Front,
 Phila., Pa.
 Prouty, T. C. Co. (Ltd.) (Roller Bearing), Al-
 bion, Mich.
RELiance BALL BEARING DOOR
 Hanger Co. ("Reliance"), 1 Madison av, New
 York. (See adv. below)
RICHARDS MFG. CO., (Ball Bear-
 ing, also Fixtures), Aurora, Ill. (See adv.
 index & branch offices, end of book)
 Stowell Mfg. & Foundry Co. ("Wilbern Adjust-
 able," "Underwriters"), S Milwaukee, Wis.

Victor Mfg. Co., Newburyport, Mass.
WILCOX MFG. CO. (Every Descrip-
 tion), Aurora, Ill. (See adv. index, end of
 book)
WISCONSIN IRON & WIRE WORKS,
 190 E. Water, Milwaukee, Wis. (See adv.
 index, end of book)

*Door Hangers (Folding)

RICHARDS MFG. CO., Aurora, Ill.
 (See adv. index & branch offices, end of book)
WILCOX MFG. CO., Aurora, Ill. (See
 adv. index, end of book)

Door Hangers (Freight House)

(See Door Hangers, Barn or Warehouse.)

*Door Hangers (Noiseless, House)

RICHARDS MFG. CO., Aurora, Ill.
 (See adv. index & branch offices, end of book)
RELiance BALL BEARING DOOR
 Hanger Co. ("Reliance"), 1 Madison av, New
 York. (See adv. below)

Door Hangers (Parlor)

Arcade Mfg. Co. ("The Warner," also "Free-
 port"), Freeport, Ill.
 Central City Bolt Co. (Barry), Syracuse, N. Y.
COBURN TROLLEY TRACK MFG.
 Co., Holyoke, Mass. (See adv. index, end of
 book)

Dix Mfg Co. (Dix Noiseless), 1025 Guilford av,
 Baltimore

Lane Bros. Co., Poughkeepsie, N. Y.
 Lawrence Bros (Roller Bearing), Sterling, Ill.
 Luitank & Sons Mfg. Co., 775 18th, Mil-
 waukee, Wis

McCABE HANGER MFG. CO. (Ball
 Bearing, etc.), 425 W 25th, New York. (See
 adv. on preceding page)

Newhall, Henry B., 9 Murray, New York
 Prouty, T. C. Co., Ltd. (Ball Bearing), Albion,
 Mich.

RELiance BALL BEARING DOOR
 Hanger Co. ("Reliance" Ball-Bearing), 1
 Madison av, New York. (See adv. below)

RICHARDS MFG. CO., (Ball Bear-
 ing), Aurora, Ill. (See adv. index & branch
 offices, end of book)

Richey, Browne & Donall (Crescent), Maspeth,
 Borough of Queens, New York City

Stearns, E. C. & Co. (Gem, Warners, Royal,
 Challenge & Sterns), Syracuse, N. Y.
 Stowell Mfg. & Foundry Co. ("Acme Adjust-
 able," "Stowell"), S Milwaukee, Wis.

WILCOX MFG. CO. (Trolley, Roller
 Bearing, etc.), Aurora, Ill. (See adv. in-
 dex, end of book)

*Door Hangers (Parlor, Adjust-able Track)

RICHARDS MFG. CO., Aurora, Ill.
 (See adv. index & branch offices, end of book)

Door Hangers (Sliding or Folding)

Allith Mfg. Co. ("Reliable"), Taylor c S. 43d
 av, Chicago, Ill.
 Atlas Hanger Co. ("Atlas" Ball-Bearing), 531
 W. 55th, New York
 Dille & McGuire Mfg. Co. (McGuire Trackless),
 Richmond, Ind.

McCABE HANGER MFG. CO. (Ball
 Bearing & Tubular), 425 W 25th, N. Y.
 (See adv. on preceding page)

RELiance BALL BEARING DOOR
 Hanger Co. ("Reliance" Ball Bearing), 1
 Madison av, New York. (See adv. below)

Richey, Browne & Donald (Crescent), Maspeth,
 Borough of Queens, New York city
 Roof, Wm. S. & Son (for Doors or Partitions),
 Franklin, O.

*Door Hangers (Swivel)

RICHARDS MFG. CO., Aurora, Ill.
 (See adv. index & branch offices, end of book)

*Door Hangers (Trolley & Track)

Prouty, T. C. Co., Ltd., Albion, Mich.
RICHARDS MFG. CO., Aurora, Ill.
 (See adv. index & branch offices, end of book)

*Door Hangers & Tracks (Parallel)

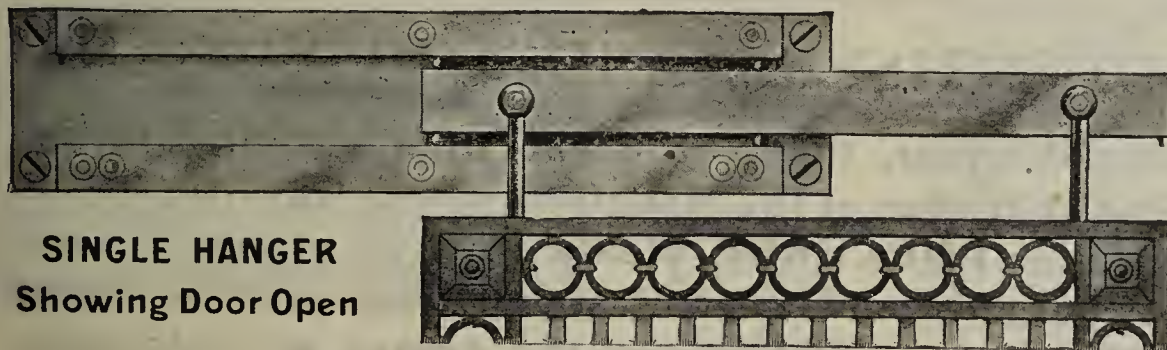
RICHARDS MFG. CO., Aurora, Ill.
 (See adv. index & branch offices, end of book)

Door Holders

(See Door Stops.)

Door Knobs (Brass & Bronze)

Barrows Lock Co., Lockport, Ill.
 Brass Goods Mfg. Co., Nevin & Union, Brook-
 lyn, N. Y.
 Chicago Hardware Co., 40 Dearborn, Chicago
 Corbin Cabinet Lock Co., New Britain, Conn.
 Norwalk Lock Co., S Norwalk, Conn.
 Peck, Stow & Wilcox Mfg. Co., Southington,
 Penn Hardware Co., Reading, Pa. Conn.
 Reading Hardware Co., Reading, Pa.
 Russell & Erwin Mfg. Co., New Britain, Conn.,
 & 47 Chambers, New York
 Sargent & Co., New Haven, Conn., & 94 Centre,
 New York
 Schroeder, J. B. & Co., 133 E 5th, Cincinnati, O.
 Stover Manufacturing Co., Freeport, Ill.
 Taylor & Boggs Foundry Co., 521 Seneca, Cleve-
 land, O.
 Waterbury Button Co., Waterbury, Conn.
 Yale & Towne Mfg. Co., 9 Murray, New York;
 Works: Stamford, Conn.



SINGLE HANGER
 Showing Door Open

Three Grooved
Steel Tracks

Direct Ball-Bearing

NO WHEELS

Practically
Noiseless

RELiance BALL-BEARING DOOR HANGER CO.

No. 1 MADISON AVENUE

NEW YORK CITY

Door Knobs (Porcelain)

Brunt, W. H., East Liverpool, O.
Greenwood Pottery Co., Trenton, N. J.
Morris-Willmore Co., Trenton, N. J.
Standard China Works (Warren Kimble, Prop.),
Trenton, N. J.
Thomas, R. & Sons Co., East Liverpool, O.

Door Knobs (Screwless)

Lanna Mfg. Co. ("Roberts"), 3614 Howell,
Phila., Pa.
Meriden Spring Hinge Co., Meriden, Conn.
Russell & Erwin Mfg. Co., New Britain, Conn.,
& 43 Chambers, New York
Sargent & Co., New Haven, Conn., & 94 Centre,
New York

Door Knobs (Wood)

Bardsley, Joseph, 149 Baxter, New York
NOVELTY TURNING CO., Norway,
Me. (See adv. index, end of book)
Mossman, Jerome, Fitchburg, Mass.
Piqua Handle & Mfg. Co., Piqua, O.

Door Knockers (Colonial)

Elm City Brass & Rivet Co., Plainville, Conn.
Gorham Co., Providence, R. I.
JACKSON, WM. H. COMPANY, 29 E
17th (Union sq), New York. (See adv. in-
dex, end of book)

UNION EQUIPMENT AND BRONZE CO.
520 W 36th, N. Y. (See adv. outside stencil)

Door Numbers

(See Numbers & Letters, Metal)

Doors (Open Hearth Furnace)

Grove, Jno. W. Co. ("Knox," Cast Iron or
Pressed Steel), Farmers B'k bldg, Pitts-
burg, Pa.

Door Openers (Automatic)

Ives Mfg. Co., Detroit, Mich.

Door Openers (Electric)

Boston Electric Co., 29 Harrison av, Boston,
Mass.
Bunnell, J. H. & Co., 20 Park pl, New York
Kell, Francis & Son, 667 E 163d, New York
Ostrander, W. R. & Co., 22 Dey, New York
Patrick, Carter & Wilkins, Phila., Pa.
Stanley & Patterson ("S. & P."), 23 Murray,
New York
Western Electric Co., 259 S Clinton, Chicago, &
57 Bethune, New York
Wilhelm, Henry, 72 Frost, Brooklyn, N. Y.

***Door Openers (Sliding Door)**

Perfect Sliding Door Co., Bridgeport, Conn

Door Pulls

(See Pulls, Door)

Door Screens

(See Screens, Door & Window)

Door Springs

(See Springs, Door)

Door Stops

Arcade Mfg. Co. ("Arcade" Door Holder for
Barn Doors, etc.), Freeport, Ill.
Bardsley, Joseph, 147 Baxter, New York
Bleha Patent Door Stop Co., 2117 Bismark, St.
Louis, Mo.
Brohard Co. (Brohard's), 1624 N 9th, Phila.,
Pa.
Caldwell Mfg. Co. ("The Empire"), 8 Jones,
Rochester, N. Y.
Champion Safety Lock Co. ("Champion" Floor),
Geneva, O.
Chapin-Stephens Co., Pine Meadow, Conn.
Detroit Ship Building Co. (Bress Dept.), De-
troit, Mich.
General Specialty Co. ("B. & S."), Harrison
bldg, Phila., Pa.
Judd, Rollin D., New Britain, Conn.
King Mfg. Co., Newton, Iowa
Lane Bros. Co., Poughkeepsie, N. Y.
Neher Mfg. Co., Topeka, Kan.
Norwalk Lock Co., South Norwalk, Conn.
Piqua Handle & Mfg. Co. (Wood, Rubber Tip),
Piqua, Ohio
Pullman Mfg. Co., Rochester, N. Y.
Reading Hardware Co., Reading, Pa.
RICHARDS MFG. CO., Aurora, Ill.
(See adv. index & branch offices, end of book)
Russell & Erwin Mfg. Co., New Britain, Conn.,
& 43 Chambers, New York
Union Hardware Co., Torrington, Conn.
WILCOX MFG. CO., Aurora, Ill. (See
(See adv. index, end of book)

**Doors (Asbestos, "Transite"
Lumber)**

Johns, H. W.-Manville Co., 100 William, New
York

Doors (Ash-Pit)

Barber Mfg. Co., Ashtabula, O.
Bayley, Wm. Co., Springfield, O.
Covert, H. W. Co., 266 Greenwich, New York
Donaldson Bros., Mt. Clemens, Mich.
Forest City Foundry & Mfg. Co., Cleveland, O.
Gehl Bros. Mfg. Co., West Bend, Wis.
Jackson, Edwin A. & Bro., 50 Beekman, New
York
Lanz, M. & Sons, Carson & 29th, Pittsburg, Pa.
Phoenix Steel Co., (Inc.) ("Phoenix"), Putnam
& P. R. R., Pittsburg, Pa.
Stowell Mfg. & Foundry Co., S. Milwaukee,
Wis.
Swett, A. L. Iron Works, Medina, N. Y.

Doors (Bronze)

(See Bronze Doors)

Doors (Car)

(See Car Doors & Fittings)

Doors (Cedar & Fir)

(See Doors, Red Cedar)

Doors (Cellar)

Lanz, M. & Sons (Steel), Carson & 29th, Pitts-
burg, Pa.
Phoenix Steel Co., Inc., Putnam & P. R. R.,
Pittsburg, Pa.
RIESECK, P. (Steel), Allegheny av
& Rebecca, Allegheny, Pa. (See adv. index,
end of book)
Southern Foundry Co., Owensboro, Ky.

Doors (Cold Storage)

DAHLSTROM METALLIC DOOR CO.
(Fireproof), Jamestown, N. Y., & 299 B'way,
New York. (See adv. index, end of book)
STEARNS, A. T. LUMBER CO. (Air &
Fire-Proof), Neponset, Boston, Mass. (See
adv. index, end of book)
Stevens, Benj. A. Co., Toledo, O.
Stevenson Co. (Ltd.) (Air & Fireproof), Ches-
ter, Pa.

Doors (Copper Covered)

Blanchard, J. F. Co. ("Richardson's"), Fuller
bldg, New York
FIRE PROOF DOOR CO. ("Richard-
son's") 401 12th av, Minneapolis, Minn.
(See adv. opp. this page)
RAPP, JNO. W. (Metal Covered),
General Office & Works, College Point, New
York, Sales Office, Madison av., New York.
(See adv. index, end of book)

***Doors (Core Oven)**

BETHLEHEM FOUNDRY & MA-
chine Co., Front, South Bethlehem, Pa.
& 149 B'way, New York. (See adv. index,
end of book)

Doors (Cypress, Wholesale)

Cypress Tank & Mfg. Co., Patterson, La.
Lutcher & Moore Cypress Lumber Co., Lutcher,
Selden Cypress Door Co., Palatka, Fla.
STEARNS, A. T. LUMBER CO., Ne-
ponset, Boston, Mass. (See adv. index, end
of book)

Doors (Drop Fire)

Allith Mfg. Co. ("Reliable" Automatic Self-
Closing), W. Taylor c S 43d av, Chicago, Ill.

Doors (Elevator)

(See Elevator Doors, Various Kinds.)

TO OUR ADVERTISERS AND SUBSCRIBERS.

At any time during the year, that you do not find classified in our book the names and addresses of the Manufacturers of any ARTICLE you are in the market to PURCHASE, please write us, giving as complete particulars as possible, and we will always endeavor to render you PROMPT SERVICE in furnishing you the names and addresses of such Manufacturers and without any cost or obligation. This does not include Mailing Lists.

S. E. HENDRICKS CO.

VAN KANNEL REVOLVING DOOR



H. C. F. KOCH & CO.'S DEPARTMENT STORE, NEW YORK

VAN KANNEL REVOLVING DOOR

VAN KANNEL REVOLVING DOOR

THE RECOGNIZED SOLUTION OF THE
ENTRANCE DOOR PROBLEM.

ADOPTED BY THE UNITED STATES AND
FOREIGN GOVERNMENTS AND IN USE IN
ALL CLASSES OF BUILDINGS THROUGH-
OUT THE WORLD.

ARCHITECTS, CONTRACTORS AND OWNERS WARNED
AGAINST INFERIOR IMITATIONS AND INFRINGE-
MENTS OF OUR PATENTS.



MOUQUIN'S RESTAURANT, NEW YORK



Y. M. C. A. BLDG., WASHINGTON, D. C.

ENOPHYLL BRONZE

BETTER
AND CHEAPER THAN
SOLID BRONZE
FOR
Massive Doors
and Frames
Elevator Doors
Interior Bronze Doors
Bank Screens
Etc., Etc.



ENOPHYLL SCREEN. NATIONAL BANK OF BALTIMORE



ENOPHYLL SCREEN FARMER'S & MECHANIC'S
SAVINGS BANK, LOCKPORT, N. Y.

VAN KANNEL REVOLVING DOOR CO.

MAIN OFFICE AND PLANT, 282-296 (OLD NO. 524-534) W. 134TH ST., NEW YORK

WESTERN BRANCH AND PLANT, 118-128 N. MAY STREET, CHICAGO

DAHLSTROM METALLIC DOOR CO.

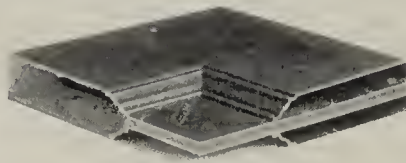
NEW YORK

BOSTON

PHILADELPHIA

SAN FRANCISCO

JAMESTOWN, N. Y.



MANUFACTURERS OF

Fireproof, Hollow Steel Doors and Partitions, Cold Drawn Steel Mouldings for Casings, Picture Mouldings, Chair Rails, Etc.

Approved and used by the National Board of Fire Underwriters at their new testing laboratory, Chicago, specified by leading Architects for Museums, Office Buildings, Apartments, Hospitals, Theatres, Mansions, Etc., Etc.

For a more thorough appreciation of the quality of our work we respectfully invite an inspection of our installed work, specimen of which may be found in, among other buildings:—

| | |
|--------------------------------------|---|
| The U. S. Express Building, | Rector and Greenwich Streets, New York City |
| The Bourne & Singer Buildings | Broadway and Liberty Street, New York City |
| The James A. Farley Apartment House, | 55th St. and Madison Ave., New York City |
| The Hispanic Society Museum, | 155th Street, W. of Broadway, New York City |
| The Security Building, | Bridgeport, Conn. |
| The New Lyric Theatre Building, | Cincinnati, Ohio |
| The R. A. Long Building, | Kansas City, Mo. |
| The Luning Building | San Francisco, Cal. |

CONDENSED CATALOGUE IN "SWEETS" INDEX

MOULDINGS

Our Steel Mouldings are cold drawn under a new process, in high grade Steel, Brass and Bronze, perfectly true to designs, with sharp and definite outlines. They are supplied not only in connection with our doors, but are used by Iron Contractors, Stairbuilders, Manufacturers of Metal Furniture and Special Articles, such as Automobile Rims, Roller Curtains, Etc., Etc. Dies for special shapes made up at reasonable cost.

Our dies already made up comprises several hundred shapes, blue prints and prices of same furnished on application.

INQUIRIES SOLICITED

DAHLSTROM METALLIC DOOR CO.

JAMESTOWN, N. Y.

***Doors (Elevating)**

DAHLSTROM METALLIC DOOR CO.
Fireproof, Jamestown, N. Y., & 299 B'way,
New York (See adv. index, end of book)
GARDNER SASH BALANCE CO.
(Heavy Doors with Chain & Ball-Bearing
Pulleys), 164 Dearborn, Chicago, Ill.

Doors (Fire Proof, Metal)

American Metal Door Co. ("Sjobring"), James-
town, N. Y.
Automatic Door & Gate Co. (Underwriters), 123
Liberty, N. Y.
Blanchard, J. F. Co. ("Richardson's"), Fuller
bldg, New York
DAHLSTROM METALLIC DOOR CO.
Jamestown, N. Y., & 299 B'way, New York.
(See adv. opp. preceding page)
Dowman-Dozier Mfg. Co. (Hollow Sheet Metal
Panel), Atlanta, Ga.
**FIRE PROOF DOOR CO. ("Richard-
son's")**, 401 12th av. Minneapolis, Minn.
(See adv. opp. this page)
Knoburn Co. (Steel Filled with Asbestos), 27
E. 22d, New York
PITT BALANCE DOOR CO. ("Pitt")
Balance), 136 W 24th, New York. (See adv.
on following page)
RAPP, JOHN W. (Metal Covered)
All kinds, General Office & Works, College
Point, New York; Sales Office, 4 Madison
av. New York. (See adv. index, end of book)
**SCHOLES BROS., 1241 Rebecca, Al-
legheny, Pa.** (See adv. below)

***Doors (Fire, Tin Clad)**

AMOS, CHAS. & CO., 94 W Larned,
Detroit, Mich. (See adv. index, end of book)
RAPP, JNO. W. (Underwriters)
Standard Tin Covered, Gen'l Office & W'ks,
College Point, N. Y. City, Sales Offices, 4
Madison av. New York. (See adv. index,
end of book)
Richmond Safety Gate Co., Richmond, Ind., &
(Kyrle S. Evans, Agent), 235 B'way, New
York

Doors (Folding)

Columbus Steel Rolling Shutter Co., Columbus,
O.
Flexifold Door & Shutter Co., Worcester, Mass.
KINNEAR MFG. CO., Columbus, O.
(See adv. index, end of book)
Variety Mfg. Co. ("Cross," Horizontal for
Freightshouses, etc.), Sacramento & Carroll
av., Chicago, Ill.

Doors (Hard Wood & Veneered)

Alcott-Ross Co., 2917 N Broad, Phila., Pa.
Anson-Hixon Sash & Door Co. (for the Trade
Only), Merrill, Wis.
Armstrong-Landon Co., Kokoma, Ind.
Batavia & New York Wood Working Co., Ba-
tavia, N. Y., & Fuller bldg, New York
Bossert, Louis & Son, Grand st & Newtown
Creek, Brooklyn, N. Y.
Burton, Wm. H. Co., Centre, Colonie & N Lans-
ing, Albany, N. Y.
Bush Bros., Royersford, Pa.
Caldwell & Iseminger, Middletown, O.

Carl, John H., 510 1st av., New York
Carter-Travis Co., Seymour, Ind.
Chicago Veneered Door Co., 316 Chamber of
Commerce, Chicago, Ill.
Compound Door Co., St. Joseph's, Mich.
Conway Veneered Door & Mantel Co., St. Paul
av & 20th, Milwaukee, Wis.
Crampton & Belden Mfg. Co. (Wholesale Mfrs.),
Green Island, Troy P. O., N. Y.
Cream City Sash & Door Co. (for the trade
only), Milwaukee, Wis.
Currier, E. Bradley Co., 119 W 23d, New York
Curtis Bros. & Co. (For the Trade only,
Wholesale Mfrs.), Clinton, Ia.
Curtis & Bartlett Co. (for the trade only,
Mfrs.), Lincoln, Neb.
Curtis & Yale Co. (for the trade only Mfrs.),
Wausau, Wis.
Davis, E. J., Mfg. Co., 251 W 21st, Chicago
Disbrow, M. A. & Co. (Wholesale Mfrs.), Lyons,
Iowa
Eldridge, E. H. Lumber Co., Indianapolis, Ind.
Enterprise Planing Mill Co., Hillsboro, Ohio
Farley & Loetscher Mfg. Co., Dubuque, Ia.
Trebing Mfg. Co., 45 Centre, Cleveland, O.
Foster-Munger Co. (for the trade only), W 20th
& S Sangamon, Chicago, Ill.
Fuller & Rice Lumber & Mfg. Co. (for the
trade only), Grand Rapids, Mich.
Gauger, John A. & Co. (for the trade only), W
22d & Laflin, Chicago
Gilmour, David, Door Co., 579 Tonawanda, Buf-
falo, N. Y.
Gould Mfg. Co. (for the trade only), Oshkosh,
Wis.
Grand Rapids Veneer Works, Grand Rapids,
Mich.
Gray Bros. Mfg. Co., Muskegon, Mich.
Hafner Mfg. Co. (Wholesale Mfrs.), Main e
Dock, St. Louis, Mo.
Huebner Mfg. Co., 236 E Fort, Detroit, Mich.
Huttig Mfg. Co., Muscatine, Iowa
Huttig-Moss Mfg. Co., St. Joseph, Mo.
Hyde-Murphy Co., Ridgway, Pa.
Ironton Door Co., Ironton, O.
Ironton Wood Mantel Co. (Wholesale Mfrs.),
Ironton, O.
I. X. L. & Goshen Pump Co., Goshen, Ind.
Kalamazoo Interior Finish Co., Kalamazoo,
Mich.
Kertscher & Co., 13 Lawrence, N. Y., & Elmira,
N. Y.
Knight & Sons, Battle Creek, Mich.
Lamont, Matthew (Wholesale Mfrs.), Bay City,
Mich.
Lord, P. A. Lumber Co. (for Dealers & Contract-
ors), La Grange, Ill.
Lortz & Frey Planing Mill Co., 420 E Brecken-
ridge, Louisville, Ky.
Lutcher & Moore Cypress Lumber Co. (Whole-
sale Mfrs.), Lutcher, La.
McClelland, T. W. Co. (Wholesale Mfrs.), Da-
venport, Ia.
McConnell Mfg. Co., Hornellsville, N. Y., & 160
5th av. New York
McMillen, R. Co. (for the trade only), Oshkosh,
Wis.
Mahogany Interior Trim Co., Indianapolis, Ind.
Mechanics Planing Mill Co., 3746 B'way, St.
Louis, Mo.
Miller, Wm. & Sons, 534 Federal, Pittsburg,
Pa. Mills, Rochester, Pa.
Montgomery Bros. & Co., Buffalo, N. Y.
Morgan Co. (for the trade only), Oshkosh, Wis.,
& W 22d & S Union, Chicago
Mulliner Box & Planing Co., Quincy, Ill.

Nesbit, D. M. Co. (Wholesale Mfrs.), Lewisburg,
Pa.
Ocker & Ford Mfg. Co., Grand Rapids, Mich.
Paine Lumber Co. (for the trade only), Osh-
kosh, Wis., & 1 Madison av, New York
Pease Co., Fredonia av & C. L. & N. R. B.,
Cincinnati, O.
Radford Sash & Door Co. (for the trade only),
102 W 22d, Chicago
Rice & Griffin Mfg. Co., Sargent c Gold, Wor-
cester, Mass.
Rikerd Lumber Co. (Wholesale Mfrs.), Lansing,
Mich.
Ripley Lumber Co., Poultney, Vt.
Roach & Musser Sash & Door Co. (Wholesale
Mfrs.), Muscatine, Iowa
Roberson, A. & Son, Binghamton, N. Y.
Rock Island Sash & Door Works (Wholesale
Mfrs.), Rock Island, Ill.
Rockwell Mfg. Co. (for the trade only), Mil-
waukee, Wis.
Rogers, D. M. & Co., New Britain, Conn.
Schaller-Hoehrr Co., 416 Blue Island av, Chi-
cago, Ill.
**STEARNS, A. T. LUMBER CO., Ne-
ponset, Boston, Mass.** (See adv. index, end
of book)
Struck, J. N. & Bro. (Inc.), Louisville, Ky.
Taylor, Henry Lumber Co., Lafayette, Ind.
Tuttle & Burritt (Mfrs.), Lapeer, Mich.
VAN KANNEL REVOLVING DOOR
Co., 524 E 134th, New York. (See adv. on
following page; branch offices, end of book)
Van Leer Bros., Brookville, Pa.
Weybrecht's, J. T. Sons, Alliance, O.
Williamson & Libbey Lumber Co. (for the trade
only), Oshkosh, Wis.
Williamsport Planing Mill Co., Williamsport,
Pa.
Wollaeger Mfg. Co., Milwaukee, Wis.
Woodbury Mill & Lumber Co., Woodbury, N. J.

***Doors (Hopper)**

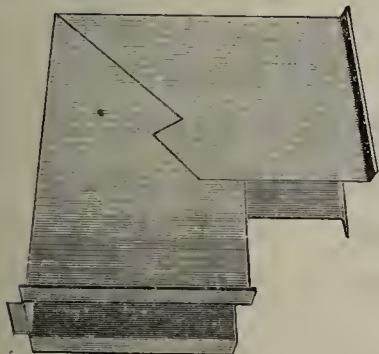
**U. S. METAL & MFG. CO. ("Dun-
ham")**, 25 Broad, New York. (See adv.
index, end of book)

***Doors (Iron & Glass)**

PITT, WM. R. COMPOSITE IRON
Works (Vestibule & Storm), 136-138 W. 24th,
New York. (See adv. on following page)

Doors (Metal Covered Entrance)

American Metal Door Co. ("Sjobring"), James-
town, N. Y.
Blanchard, J. F. Co. ("Richardson's"), Fuller
bldg, New York
DAHLSTROM METALLIC DOOR CO.
Jamestown, N. Y., & 299 B'way, New York.
(See adv. index, end of book)
Dowman-Dozier Mfg. Co., Atlanta, Ga.
**FIRE PROOF DOOR CO. ("Richard-
son's")**, 401 12th av, Minneapolis, Minn.
(See adv. index & branch offices, end of book)
Knoburn Co., 27 E. 22d, New York
RAPP, JOHN W. (Bronze & Copper
Covered), General Office & Works, College
Point, New York; Sales Offices, 4 Madison
av. New York. (See adv. index, end of book)
WISCONSIN IRON & WIRE WORKS,
190 E Water, Milwaukee, Wis. (See adv.
index, end of book)

TIN CLAD FIRE DOOR CORNERS

WRITE FOR SAMPLES

ALL ANGLES FOR STANDARD DOORS

Manufacturers of SKYLIGHTS, CORNICES, FIRE PROOF WINDOWS AND DOORS AND ALL ARCHITECTURAL SHEET METAL WORK.

We manufacture these corners at a very
small cost over price of the tin plate.

WRITE FOR PRICES

SCHOLES BROS.,

1241 REBECCA STREET,
ALLEGHENY, PA.

Doors (Metallic, Solid)

American Metal Door Co. ("Sjoberg"), Jamestown, N. Y.
DAHLSTROM METALLIC DOOR CO.
 (High Grade Fire Proof, with Incombustible Filling), Jamestown, N. Y., & 299 B'way, New York. (See adv. index, end of book)
WISCONSIN IRON & WIRE WORKS,
 (Hollow, Metal), 190 E Water, Milwaukee, Wis. (See adv. index, end of book)

Doors (Mine)

Hardsorg, Martin Co. ("Champion" or "Terre Haute" Automatic), Allegheny, Pa.

Doors (Oven)

Comstock, Geo. S., Mechanicsburg, Pa.

***Doors (Pitt Balance)**

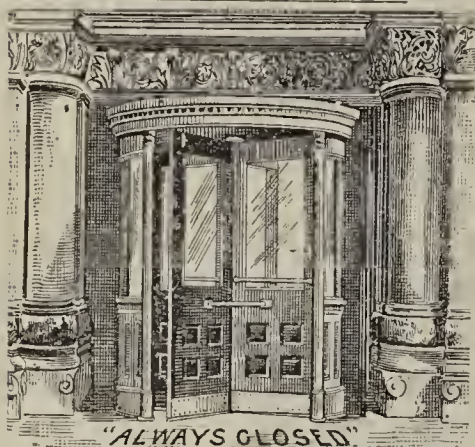
PITT BALANCE DOOR CO., 136 W. 24th, New York. (See adv. below)

Doors (Red Cedar, Wholesale)

Whatcom Falls Mill Co., Whatcom, Wash.
 Wheeler, Osgood Co., Tacoma, Wash.

Doors (Revolving)

United Revolving Door Co., Trenton, N. J.
VAN KANNEL REVOLVING DOOR CO., Home Office, 524 E 134th, New York. (See adv. below; branch offices, end of book)

**THE REVOLVING DOOR**

Excludes all wind, snow, rain and dust while persons are passing in and out. Also used as a Fire Door, to prevent fire spreading from room to room.

Van Kannel Revolving Door Co.,

524 E. 134th Street, New York.

***Doors (Revolving Fireproof)**

VAN KANNEL REVOLVING DOOR CO., Home Office, 524 E 134th, New York. (See adv. on this page; branch offices, end of book)

***Doors (Round House)**

WILSON, JAS. G. MFG. CO. (Wood), Chief Office, 3 W 29th, New York. Mills & Factory, Norfolk, Va. (See adv. index, end of book)

Doors, Sashes & Blinds

(See Sashes, Doors & Blinds.)

Doors (Steel Rolling)

(See Shutters, Steel Rolling)

***Doors (Storm and Wind Proof)**

PITT BALANCE DOOR CO. ("Pitt" Balance), 136 W 24th. (See adv. below)

***Doors (Wind-Proof)**

PITT BALANCE DOOR CO. (Double Acting "Pitt" Balance), 136 W 24th, New York. (See adv. below)

***Doors (Winding & Sliding)**

DAHLSTROM METALLIC DOOR CO. (Metal), Jamestown, N. Y., & 299 B'way, New York. (See adv. index, end of book)
 Flexifold Door & Shutter Co., Worcester, Mass.
WILSON, JAS. G. MFG. CO. (Swing for Freight Sheds & Warehouses), Chief Office, 3 W 29th, New York. Mills & Factory: Norfolk, Va. (See adv. index, end of book)

Doors & Shutters (Fireproof)

(See also Shutters, Steel, etc.)

AMERICAN ROLLING MILL CO., Middletown, O. (See adv. index, end of book)
BERGER MFG. CO. Main Office & Works, Canton, O. (See adv. index & branch offices, end of book)
CANTON ART METAL CO., Canton, O. (See adv. index, end of book)
 Champion Fire Proof Door Co. ("Champion F. P. Door"), 275 Rider av, New York
CHAMPION IRON CO. (Steel), Kenton, O. (See adv. index, end of book)
 Columbus Steel Rolling Shutter Co., Columbus, O.

DAHLSTROM METALLIC DOOR CO., Jamestown, N. Y., & 299 B'way, New York. (See adv. index, end of book)
FIRE PROOF DOOR CO., 401 12th av. Minneapolis, Minn. (See adv. index & branch offices, end of book)
 Knoburn Co., 27 E. 22d, New York

LONDON, E. R. IRON & WIRE Works (Iron), 1243 Fillmore, Chicago, Ill. (See adv. index, end of book)
 Mesker & Bro., 423 S. 6th, St. Louis, Mo.
MILWAUKEE CORRUGATING CO., Milwaukee, Wis. (See adv. index, end of book)

National Fireproof Door & Shutter Co., 250 Moore, Brooklyn, N. Y.

OHIO STRUCTURAL IRON CO. (Iron & Steel), Sandusky, O. (See adv. index, end of book)

Pritchard, E. M. & Son Co., E 138th & Mott av, New York

RAPP, JOHN W. (Metal Covered), General Office & Works, College Point, New York; Sales Office, 4 Madison av, New York. (See adv. index, end of book)

RIESECK, P. (Steel), Allegheny av & Rebecca, Allegheny, Pa. (See adv. index, end of book)

ROLLING STEEL SHUTTER WORKS (John McLean), 162 W 27th, New York. (See adv. index, end of book)

SCHOLES BROS., 1241 Rebecca, Allegheny, Pa. (See adv. on preceding page)

SMITH, F. P. WIRE & IRON WORKS, 100 Lake, Chicago, Ill. (See adv. index, end of book)

STEARNS, A. T. LUMBER CO., Neponset, Mass., & 166 Devonshire, Boston, Mass. (See adv. index, end of book)

Victor Mfg. Co., Newburyport, Mass.

VARIETY MFG. CO. (Iron & Tin Clad), 77 W. Lake, Chicago, Ill. (See adv. index, end of book)

WILSON, JAS. G. MFG. CO. (Steel Rolling), Chief Office, 3 W 29th, New York. Mills & Factory, Norfolk, Va. (See adv. index, end of book)

***Doors & Shutters (Fire-Proof, Steel Rolling)**

KINNEAR MFG. CO., Columbus, O. (See adv. index & branch offices, end of book)

ROLLING STEEL SHUTTER WORKS 162 W. 27th, New York. (See adv. index, end of book)

WILSON, JAS. G. MFG. CO., Chief Office, 3 W 29th, New York. Mills & Factory, Norfolk, Va. (See adv. index, end of book)

Doors & Windows (Kalameined)

Brooklyn Fire-Proof Sash & Door Co., 97 Richardson, Brooklyn, N. Y.

Herrmann & Grace, 671 Bergen, Brooklyn, N. Y.

Howell & Lawrence, 1788 1st av, New York

Leonard Sheet Metal Works (Inc.), 219 Grand, Hoboken, N. J.

National Fire Proof Sash & Door Co., 270 Moore, Brooklyn, N. Y.

Pruden, C. D. Co., Warner & Dock, Baltimore, Md.

RAPP, JOHN W. (Also Interior, Trim.), Genl. Office & Wks., College Point, N. Y. Sales Office, 4 Madison av, New York. (See adv. index, end of book)

Westergen, W. F. (Inc.), 433 E 144th, New York

**The Pitt Balance Door Co.**

ENTRANCE DOORS FOR USE IN OFFICE
 BUILDINGS, SCHOOLS, HOTELS, DEPART-
 MENT STORES, CAFES, ALL PUBLIC AND
 SEMI-PUBLIC BUILDINGS.

"THE DOOR THAT CAN'T BLOW OPEN"

136 West 24th Street, New York

Dowel Rods

Estes, E. B. & Sons, 74 Warren, New York
 Harris & Cole Bros. (Poplar, Oak & Yellow Pine), Cedar Falls, Iowa, & Columbia, Tenn.
 Hyde-Murphy Co., Ridgway, Pa.
 Kuntz, Jacob E., South Bend, Ind.
 Phillips, A. J. Co., Fenton, Mich.
 Rowe, Henry Mfg. Co., Newaygo, Mich.
 Southern Bobbin, Spool & Shuttle Co., Greensboro, N. C.
 Sturm, Adolph Co., 51 W Washington, Chicago, Ill.

Dowels

Ellsworth Hardwood Co. (Rope, Reed & Plain), Ellsworth, Me.
MORSE, FRANK W. (Brass), 116 Bedford, Boston, Mass. (See adv. below)

Dowels (Patternmakers')

Beskin Mfg. Co. (Brass), Canton, O.
 Diamond Clamp & Flask Co., Richmond, Ind.
MORSE, FRANK W., 116 Bedford, Boston, Mass. (See adv. below)
 Sbanafelt Mfg. Co. (Brass & Hardwood), Canton, O.
 Timmils & Clissold (Brass), Bound Brook, N. J.

Dowels (Steel)

Lanz, M., & Sons, 101 S 29th, Pittsburg, Pa.
 Wire Goods Co. (Hand Rail Screw Thread) Worcester, Mass.

Draft Gear

Bradford Draft Gear Co., Monadnock blk, Chicago, Ill.
 Cardwell Mfg. Co. ("Cardwell" Friction), Monadnock blk, Chicago, Ill.
 Commonwealth Steel Co. ("Transom," Cast Steel Draft Rigging), St. Louis, Mo. Works: Granite City, Ill.
 Dayton Malleable Iron Co. (for Steel & Wooden Cars), Dayton, O.
 Farlow Draft Gear Co. ("Farlow"), Baltimore, Md.
 Miner, W. H., Co. ("Miner" Draft Rigging), Rookery bldg, Chicago, Ill.
 National Car Coupler Co. ("Hinson"), Monadnock blk, Chicago, Ill. Works: Converse, Ind.
 Standard Coupler Co. ("Sessions-Standard" Friction), 160 B'way, N. Y. Works: Bridgeport, Conn.
 Waugh Draft Gear Co., Monadnock blk, Chicago, Ill.
WESTINGHOUSE AIR BRAKE CO., The ("Friction"), Pittsburg, Pa.

Draft Inducer

Brown Specialty Machinery Co. ("Gadey"), Jackson boul & Clinton, Chicago

Draft (Mechanical)

(See Mechanical Draft)

***Draftsmen (Mechanical)**

Canby, W. W., 134 S 9th, Pblia., Pa.
 Gaylord, Chas. E. (Patent Office Drawings a Specialty), Monadnock blk, Chicago, Ill.
 Marshall, Alfred H., First National Bank, Chicago, Ill.
 White & White (Patent Office Drawings a Specialty), Monadnock blk, Chicago, Ill.

Drainage Excavators

(See Ditching Machines; also Dredging Machines; also Shovels. Steam)

Drainage Systems

Baggot, E. Co. ("Durham"), 169 Adams, Chicago, Ill.
 Waring, Chapman & Farquhar ("Waring"), 874 B'way, New York

Draughting Inks

Carter Ink Co., 164 Columbus av, Boston, Mass.
DIETZGEN, EUGENE CO., 181 Monroe, Chicago, Ill. (See adv. in next column; branch offices, end of book)
ELLIOTT, B. K. CO., 108 6th, Pittsburg, Pa. (See adv. index, end of book)
 Higgins, Chas. M., 271 9th, Brooklyn, N. Y.
 Keuffel & Esser Co., 127 Fulton, New York
KOLESCH & CO., 138 Fulton, New York. (See adv. index, end of book)
QUEEN & CO. (Inc.), n. w. c 8th & Arch, Philadelphia, Pa. (See adv. index, end of book)

SOLTMANN, E. G.

(Also everything for the Architect, Engineer & Draughting Room), 125 E 42d, New York. (See adv. on following page)
 Taylor Bros. ("Opake" Quick Drying Water Proof, for Tracing Cloths), 82 Superior, Cleveland, O.

WEBER, F. & CO. (Black & Colored), 1125 Chestnut, Phila., Pa. (See adv. index and branch offices, end of book)
 Williams, Brown & Earle, 918 Chestnut, Philadelphia, Pa.

Draw-Bar Attachment

Brill, J. G. Co., 62d & Woodland av, Pblia., Pa.
 Butler Draw-Bar Attachment Co., Cleveland, O.
 Dayton Malleable Iron Co., Dayton, O.
 Miner, W. H., The Rookery, Chicago, Ill.
 Van Dorn, W. T. Co. (Electric Railway), 1076 S Paulina, Chicago, Ill.
 Wilmington Malleable Iron Co., Taylor & Locust, Wilmington, Del.

***Draw-Bar Centering Device (Ideal)**

U. S. METAL & MFG. CO., 25 Broad, New York. (See adv. Index, end of book)

Draw Bridge Equipments (Electric)

Nicbols, Geo. P. & Bro., Monadnock blk, Chicago, Ill.

Draw Bridge Machinery

(See Machinery, Draw Bridge.)

***Drawer Slides**

GRANT PULLEY & HARDWARE CO. ("Turner"), 35 Warren, New York. (See adv. index, end of book)
RELIANCE BALL BEARING DOOR Hanger Co. ("Reliance," Ball Bearing), 1 Madison av, New York. (See adv. index, end of book)

***Drawing Materials.**

(See also Architects' & Engineers' Instruments & Supplies; also Blue Prints)

**Eugene Dietzgen Co.,**

181 Monroe St., Chicago.
 119-121 W 23d St., New York.
 14 First St., San Francisco.

Engineering and Drawing Instruments.

Profile, Tracing, Drawing and Blue Print Papers, Drawing Boards, Triangles, T Squares, Scales, etc.

Illustrated Catalogue on Application.

ELLIOTT, B. K. CO., 108 6th av, Pittsburg, Pa. (See adv. index, end of book)
HARDTMUTH, L. & C., 34 E. 23d, New York. (See adv. index, end of book)
 Keuffel & Esser Co., 127 Fulton, New York.
 Keystone Blue Paper Co., 910 Filbert, Philadelphia, Pa.
KOLESCH & CO., 138 Fulton, New York. (See adv. index, end of book)
QUEEN & CO. (Inc.), n. w. c 8th & Arch, Philadelphia, Pa. (See adv. index, end of book)
RUCKERT, LOUIS, Merchants' Laclede bldg, St. Louis, Mo. (See adv. index, end of book)
 Schwencke, Kirk & Co., 227 Fulton, New York

**PATTERN MAKERS' STANDARD BRASS ROUND PLATE DOWELS**

No Mortising Out Required, just use a Bit. The three screws allow them to be more Firmly Fastened.

also **STANDARD BRASS DOWEL PINS** with either smooth or grooved sides.

Although Raw Stock Has Advanced 25%

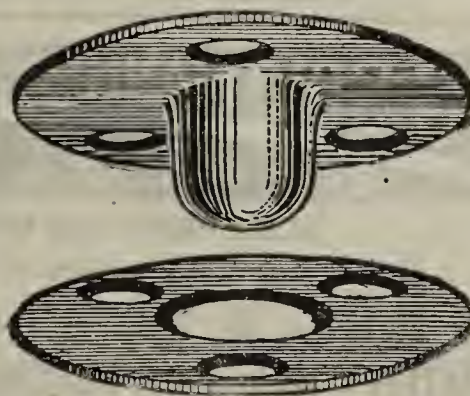
Grooved & Smooth Dowels

Sizes—Outside Dimensions

No. 1— $\frac{5}{8}$ x $\frac{3}{16}$ inches
 No. 2— $\frac{3}{4}$ x $\frac{1}{4}$ inches
 No. 2½— $\frac{7}{8}$ x $\frac{5}{16}$ inches
 No. 3—1 x $\frac{3}{8}$ inches
 No. 4—1¼ x $\frac{1}{2}$ inches
 No. 5—1½ x $\frac{5}{8}$ inches

Send for Illustrated Price List.

Transportation charges allowed on all orders amounting to \$25.00 or more, to points east of Mississippi River.

FRANK W. MORSE, 116 Bedford Street, Boston, Mass.

My Prices Remain the Same the Lowest on the Market

PLATE DOWEL SIZES

Size of Plate, Pin

No. 1— $\frac{3}{4}$ x $\frac{1}{4}$ inches
 No. 2—1 x $\frac{5}{16}$ inches
 No. 3—1¼ x $\frac{3}{8}$ inches
 No. 4—1½ x $\frac{7}{16}$ inches
 No. 5—2 x $\frac{1}{2}$ inches

Will also make to order Brass Dowels for Furniture Manufacturers. Prices quoted on submission of sample.



SOLTMANN, E. G.

(Also everything for the Architect, Engineer & Draughting Room), 125 E 42d, New York. (See adv. below)

Wadsworth, Howland & Co. (Inc.), 84 Washington, Boston, Mass

WEBER, F. & CO., 1125 Chestnut, Phila., Pa. (See adv. index & branch offices, end of book)

U. S. Blue Print Paper Co., 263 La Salle, Chicago, Ill.

Drawing Tables

American Drafting Furniture Co., 9 Railroad, Rochester, N. Y.

DIETZGEN, EUGENE CO., 181 Monroe, Chicago, Ill. (See adv. on preceding page; branch offices, end of book)

Economy Drawing Table Co., Toledo, O.

Fritz & Goelzel Mfg. Co. ("Fry's Adjustable"), 95 Alabama, Grand Rapids, Mich.

Hemp, C. E., Hamilton, O.

Hetterschied Mfg. Co. (Adjustable), Grand Rapids, Mich.

Keuffel & Esser Co., 127 Fulton, New York

Kidder, R. E., 2 Hermon, Worcester, Mass.

KOLESCH & CO., 138 Fulton, New York. (See adv. index, end of book)

Peterson, Leonard & Co., 51 Institute pl, Chicago

QUEEN & CO. (Inc.), n. w. c 8th & Arch, Philadelphia, Pa. (See adv. index, end of book)

SOLTMANN, E. G.

(Also everything for the Architect, Engineer & Draughting Room), 125 E 42d, New York. (See adv. below)

Taws, Henry M. (Emerson's), 920 Arch, Philadelphia, Pa.

Washburn Shops of the Polytechnic Institute, Worcester, Mass.

WEBER, F. & CO., 1125 Chestnut, Phila., Pa. (See adv. index & branch offices, end of book)

Williams, Brown & Earle ("Ajax" Telescopic), 918 Chestnut, Philadelphia, Pa.

Dredges (Gold & Placer Mining)

ALLIS-CHALMERS CO. ("Christian"), Milwaukee, Wis. (See adv. index & branch offices, end of book)

Bucyrus Co., South Milwaukee, Wis.

Hammond Mfg. Co., 100 1st, Portland, Oregon.

Keogh Mfg. Co., San Francisco, Cal.

Link Belt Co., W 39th cor Stewart av, Chicago, Ill., & 299 B'way, New York

Marion Steam Shovel Co., Marion, O.

Ohio Steam Shovel Co., Toledo, O.

Risdon Iron Works, San Francisco, Cal.

Thew Automatic Shovel Co., Lorain, A.

United Iron Works (Beach & Sand Dredges), San Francisco, Cal.

Urie Boiler & Machine Co., Kansas City, Mo.

Yeatman, Jno. A. & Co. (Beach Sand Dredges), 13 1st, San Francisco, Cal.

***Dredges (Second-Hand)**

Mitschkuu, M. Co., Isabella av & E, Detroit, Mich.

SHAW, WILLIS, N. Y. Life bldg, Chicago, Ill. (See adv. index, end of book)

Dredging Engine Builders

(See Engines, Dredging)

Dredging Machinery

(See Machinery)

Dressers (Bib Seat)

BERNZ, OTTO, S 13th & S Orange av, Newark, N. J. (See adv. index, end of book)

Johnson Wm. (Hedenberg Works), Newark, N. J.

Wolverine Brass Works, Grand Rapids, Mich.

Dressers (Emery Wheel)

(See Emery Wheel Dressers)

Dressing (Belt)

(See Belt Dressing.)

Dressing (Carriage Top, Etc.)

East Mfg. Co. ("Peerless," also Easy Lining Restorer), Buffalo, N. Y.

Dressing (Rope)

CARPENTER, GEO. B. & CO., 202 S Water, Chicago, Ill. (See adv. index, end of book)

DODGE MFG. CO., Mishawaka, Ind. (See adv. index & branch offices, end of book)

Link Belt Engineering Co., Nicetown, Philadelphia, Pa.

Nason, R. N. & Co. (Wire Rope), 117 Market, San Francisco, Cal.

Wolf, Norbert & Son, ("Wolf"), 470 Greenwich, New York

Zurn, O. F. Co. ("Ropoleum"), 23 S 5th, Philadelphia, Pa.

Drill Presses

Barnes, B. F. Co., Rockford, Ill.

Carroll-Jamieson Machine Tool Co., Batavia, O.

Clough, R. M., Tolland, Conn.

COATES CLIPPER MFG. CO. ("Coates" Flexible Shaft), Worcester, Mass. (See adv. index, end of book)

Gem Mfg. Co. ("Gem," Screw Feed), Pittsburgh, Pa.

Gould & Eberhardt, 65 N. J. R. R. av, Newark, N. J.

HENRY & WRIGHT MFG. CO., 133 Sheldon, Hartford, Conn. (See adv. index, end of book)

Hoefler Mfg. Co., Freeport, Ill.

National Machine Co. ("W. & R.," Sensitive, etc., 1 to 10 Spindles), Hartford, Conn.

Reed, Francis Co. (1 to 4 Spindles, Capacity 1/2 to 5-8 inch), Worcester, Mass.

Rich, Geo. R. Mfg. Co. ("Rich" Arch Bar), Buchanan, Mich.

Sigourney Tool Co., Hartford, Conn.

Sloan & Chase Mfg. Co. (Bench), Newark, N. J.

***Drill Presses (Ball Bearing)**

HENRY & WRIGHT MFG. CO., 133 Sheldon, Hartford, Conn. (See adv. index, end of book)

Drill Presses for Wood

Bradley, H. C., Bridgeport, Conn.

***Drill Presses (High Speed)**

HENRY & WRIGHT MFG. CO., 133 Sheldon, Hartford, Conn. (See adv. index, end of book)

Drill Presses (Post)

Gould & Eberhardt, Newark, N. J.

Wiley & Russell Mfg. Co. ("Green River"), Greenfield, Mass.

Drill Speeders

Graham Mfg. Co. ("Graham"), Providence, R. I.

Drill & Vise Combined

Adams, A. L., Cedar Rapids, Iowa

Strange, E. W. & Co., Taunton, Mass.

Drilling Attachments (Automatic)

Fifield Bros. (For Use on Bit Brace), Augusta, Me.

Drills (Artesian Well)

(See also Well Drilling Machinery in letter M)

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)

Austin Mfg. Co., 315 Dearborn, Chicago, Ill.

Works: Harvey, Ill.

OIL WELL SUPPLY CO., 215 Water, Pittsburg, Pa. (See adv. index, end of book)

Star Drilling Machine Co., Akron, O.

Drills (Automatic)

Baush Machine Tool Co., Springfield, Mass.

Garvin Machine Co., 143 Varick, New York

Goodeil-Pratt Co., Greenfield, Mass.

Hoefler Mfg. Co., Freeport, Ill.

Niles-Bement-Pond Co., 111 B'way, New York

Norton & Jones Machine Tool Works (Power Feed, 1, 2, 3, 4, 5 & 6 Spindles), Plainville, Conn.

Pratt & Whitney Co., Hartford, Conn.

Prentice Bros. Co., Worcester, Mass.

San Francisco Iron Works, 223 Folsom, San Francisco

Slate, Dwight, Machine Co., Hartford, Conn.

Wiley & Russell Mfg. Co., Greenfield, Mass.

Drills (Beet Planting)

American Seeding Machine Co., Main Office, Springfield, O.

Gale Mfg. Co., Albion, Mich.

Drills (Bench)

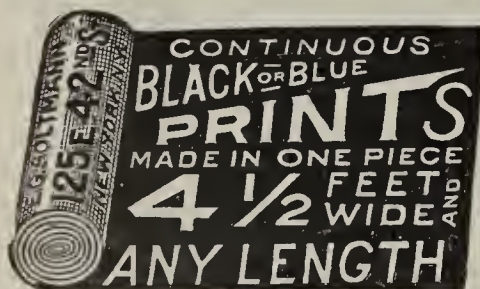
Barnes, B. F. Co., Rockford, Ill.

Barnes, W. F. & Jno. Co., Rockford, Ill.

Boynton & Plummer, Worcester, Mass.

Clark, Jas. Jr. & Co. (Sensitive "Wiley" Electrically Driven), 313 W Main, Louisville, Ky.

Gardam, Wm. & Son (Inc.), 45 Rose, N. Y. City



BLUE PRINT and BROWN PRINT PAPERS.

PRICES FOR LARGE PRINTS UP TO 4 1/2 X 12 FEET IN ONE PIECE.

BLACK PRINTS 3c. SQUARE ON PAPER FOOT **BLACK OR BLUE PRINTS 5c. SQUARE ON CLOTH FOOT**

"SEPPIAN" Brown Print NEGATIVES made from TRACINGS. "SEPPIAN" POSITIVES.

TRACINGS RECEIVED BY EXPRESS IN THE MORNING, CAN BE EXPRESSED ON SAME DAY WITH LARGE QUANTITIES OF PRINTS, BOUND IN SETS, READY FOR THE CONTRACTORS.

Garvin Machine Co., 143 Varick, New York
 Goodell-Pratt Co. (Haud & Power), Greenfield, Mass.
 Gowanda Agricultural Works (For Cutlery Factories), Gowanda, N. Y.
 Hoefler Mfg. Co., Freeport, Ill.
 McGeorge Mfg. Co., 138 Carlton bldg., Cleveland, O.
 Miami Valley Machine Tool Co. ("Patterson" Friction Disc Driven, 10-inch Sensitive), Dayton, O.
 Oliver, W. W. Mfg. Co., 1483 Niagara, Buffalo, N. Y.

Pratt & Whitney Co., Hartford, Conn.
 Reed, Francis Co., Worcester, Mass.
 Sigourney Tool Co., Hartford, Conn.
 Silver Mfg. Co., Salem, Ohio
 Slater, Dwight Machine Co., Hartford, Conn.
 Smurr & Kamen ("Champion"), 97 S. Clinton, Chicago, Ill.
 Stearns, E. C. & Co., Syracuse, N. Y.
STRONG, CARLISLE & HAMMOND
 Co. (The Ideal), Cleveland, Ohio. (See adv. index, end of book)

*Drills (Bit Point)

MORSE TWIST DRILL & MACHINE
 Co., New Bedford, Mass. (See adv. index, end of book)
NEW PROCESS TWIST DRILL CO.
 (Twist), Taunton, Mass. (See adv. index, end of book)

Drills (Bit Stock)

Cincinnati Tool Co., Norwood, Cincinnati, O.
 Cleveland Twist Drill Co., Cleveland, O.
 Detroit Twist Drill Co., Detroit, Mich.
 Mayhew, H. H. Co., Shelburne Falls, Mass.
MORSE TWIST DRILL & MACHINE
 Co. (For Metal or Wood), New Bedford, Mass. (See adv. index, end of book)
 National Twist Drill & Tool Co., Detroit, Mich.
NEW PROCESS TWIST DRILL CO.
 (Twist), Taunton, Mass. (See adv. index, end of book)
 Standard Tool Co., Central av & P. R'y, Cleveland, Ohio
 Syracuse Twist Drill Co., Syracuse, N. Y.
WHITMAN & BARNES MFG. CO.
 West Pullman, Chicago, Ill. (See adv. index, end of book)

Drills (Blacksmiths')

Boynton & Plummer, Worcester, Mass.
 Buffalo Forge Co., Buffalo, N. Y.
 Champion Blower & Forge Co., Lancaster, Pa.
 Cincinnati Tool Co., Norwood, Cincinnati, O.
 Foss Mfg. Co., Springfield, Ohio
 Illinois Iron & Bolt Co. (Horizontal & Upright), Carpentersville, Ill.
MORSE TWIST DRILL & MACHINE
 Co., New Bedford, Mass. (See adv. index, end of book)
NEW PROCESS TWIST DRILL CO.
 (Twist), Taunton, Mass. (See adv. index, end of book)
 Niles-Bement-Pond Co., 111 B'way, New York.
 Peck, Stow & Wilcox Co., Southington, Conn., & 27 Murray, New York
 Pleuger & Henger Mfg. Co., 11th & Hebert, St. Louis, Mo.
 Pratt & Whitney Co., Hartford, Conn.
 Reed, Francis Co. (Upright & Post), Worcester, Mass.
 Russ, A. E. Mfg. Co., 87 Wade Park av., Cleveland, O.
 Silver Mfg. Co., Salem, O.
 Standard Tool Co., Cleveland, O.
 Swett, A. L. Iron Works (Steel Spindle, etc.), Medina, N. Y.
WHITMAN & BARNES MFG. CO.
 West Pullman, Chicago, Ill. (See adv. index, end of book)

Drills (Boilermakers')

Aurora Tool Works, Aurora, Ind.
 Bickford Drill & Tool Co., Front & Pike, Cincinnati, O.
INGERSOLL - RAND CO., 11 B'way,
 New York. (See adv. index & branch offices, end of book)
 Niles-Bement-Pond Co., 111 B'way, New York
 Prentice Bros. Co., Worcester, Mass.
 Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Philadelphia, Pa.
 Silver Mfg. Co., Salem, O.
WHITMAN & BARNES MFG. CO.
 West Pullman, Chicago, Ill. (See adv. index, end of book)

Drills (Boiler Shell)

DALLETT, THOS. H. CO. (Electric Duplex), York & Sedgley av., Phila., Pa. (See adv. index, end of book)
 Prentice Bros. Co., Worcester, Mass.

*Drills (Bracket)

STRONG, CARLISLE & HAMMOND
 Co. ("The Berlin"), Cleveland, O. (See adv. index, end of book)

Drills (Breast)

Clark, Jas. Jr. & Co. (Electrically Driven), 313 W. Main, Louisville, Ky.
COATES CLIPPER MFG. CO.
 ("Coates" Housed Geared Flexible Shaft), Worcester, Mass. (See adv. index, end of book)
 Fray, Jno. S. & Co., Bridgeport, Conn.
 Gem Mfg. Co. ("Gem"), Pittsburg, Pa.
 Goodell-Pratt Co., Greenfield, Mass.
 Millers Falls Co., Millers Falls, Mass., & 28 Warren, New York
 Peck, Stow & Wilcox Co., Southington, Conn., & 27 Murray, New York
 Stanley Rule & Level Co., New Britain, Conn.
 Stow Flexible Shaft Co., N 26th & Callowhill, Philadelphia, Pa.
 Stow Mfg. Co., Binghamton, N. Y.
 Turner & Deegan, Bristol, Conn.

*Drills (Brick & Stone)

STAR EXPANSION BOLT CO., 147
 Cedar, New York City. (See adv. index, end of book)

*Drills (Center)

MORSE TWIST DRILL & MACHINE
 Co., New Bedford, Mass. (See adv. index, end of book)
NEW PROCESS TWIST DRILL CO.
 (Twist), Taunton, Mass. (See adv. index, end of book)

Drills (Chain)

Goodell-Pratt Co. ("Giant" Automatic and Ratchet), Greenfield, Mass.

Drills (Clamp)

Boynton & Plummer, Worcester, Mass.
 Eckstein, Chas. G., 249 Center, N. Y.
 Jackson Patent Shell Roll Co. (Universal), Pawtucket, R. I.
 Reed, Francis Co. (4 Sizes), Worcester, Mass.
 Stow Flexible Shaft Co., N 26th & Callowhill, Philadelphia, Pa.
 Tecktonius, E. C. Mfg. Co., Racine, Wis.

Drills (Coal Prospecting)

(See Drills, Prospecting)

Drills (Coal & Rock)

(See also Machines, Coal Cutting)

American Diamond Rock Drill Co., 95 Liberty, New York
 Beall Bros. (Inc.) (Coal Drills), Alton, Ill.
 Beaver Falls Mfg. & Fuel Co. (Hand, Auger Type), Beaver Falls, Pa.
 Bittenbender, Geo. H., Plymouth, Pa.
 Christman Co. (Hand Power), Massillon, O.
 Cyclone Machine Co. (Hand only), Pittston, Pa.
 Eagan, Jas. (Hand & Power), Wyoming, Pa.
 Goodman Mfg. Co. (Auger Type), Halsted & 48th pl, Chicago, Ill.
 Hardsocg, Martin Co. (Auger, etc., Coal), 922 South av., Allegheny, Pa.
 Hardsocg Wonder Drill Co. (Hand), Ottumwa, Ia.
 Heimann, A. & Bro. (Hand), Massillon, O.
 Herzler-Henninger Machine Works, Belleville, Ill.
 Howell's Mining Drill Co. (Hand & Power), Plymouth, Pa.
 Hubbard & Co., Pittsburg, Pa.
INGERSOLL - RAND CO., 11 B'way,
 New York. (See adv. index & branch offices, end of book)
 Iwan Bros. (Hand & Power), Streator, Ill.
JEFFREY MFG. CO. (Hand & Power), Columbus, O. (See adv. index & branch offices, end of book)
 Klein-Logan Co. (Hand), Pittsburg, Pa.

Le Grand Mine Drill Works, Wilkes-Barre, Pa.
 Leetonia Tool Co., Leetonia, O.
 Morgan-Gardner Electric Co., 2642 Shields av., Chicago, Ill.
 Motley, Green & Co. (Inc.), 68 Broad, New York
 Peoria Coal Drill & Hardware Co., Peoria, Ill.
 Pittsburg Tool & Drop Forge Co. ("Cheswick" Auger, Grip, Wood & Steel Post), Cheswick, Pa.

Drills (Combination Center)

Cleveland Twist Drill Co., Cleveland, O.
 Lord, L. L. Co. ("Lord"), Meadville, Pa.
 Slocomb, J. T. Co., Providence, R. I.

Drills (Compressed Air)

Clayton Air Compressor Works, 114 Liberty, New York
Compressed Air Machinery Co. ("Giant"), San Francisco, Cal.
CONTRACTORS SUPPLY & EQUIPMENT CO., Old Colony bldg., Chicago, Ill. (See adv. index & branch offices, end of book)
 Howell's Mining Drill Co., Plymouth, Pa.
INGERSOLL - RAND CO., 11 B'way, New York. (See adv. index & branch offices, end of book)
JEFFREY MFG. CO. ("Phillips"), Columbus, O., & 41 Dey, N. Y. (See adv. index & branch offices, end of book)
 McKiernan Drill Co., 170 B'way, New York
 Rix Compressed Air & Drill Co. (Also North Steel, Baby Drill), 396 Mission, San Francisco, Cal.
 Rogers, Jno. M., Gloucester City, N. J.

Drills (Core)

American Diamond Rock Drill Co. (Diamond Prospecting), 95 Liberty, New York
AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)
 Bath Foundry & Machine Co., Bath, Pa.
 Birdsboro Steel Foundry & Machine Co., Birdsboro, Pa.
 Cyclone Drill Co. ("Prescar" Prospecting), Orrville, O.
 Ellison, Wm. & Sons Mfg. Co., 1018 N 6th, St. Louis, Mo.
INGERSOLL-RAND CO. ("Davis Calyx," "Diamondless"), 11 B'way, New York. (See adv. index & branch offices, end of book)
 Standard Diamond Drill Co. ("Diamond," Capacity 350 to 6,000 ft), Chamber of Commerce bldg., Chicago, Ill.
SULLIVAN MACHINERY CO., (Diamond), Railway Exchange bldg., Chicago, Ill. (See adv. index & branch offices, end of book)

Drills (Corn Planting)

American Drill Co., The, Springfield, O.
 American Seeding Machine Co. (With Fertilizer Attachment), Main Office, Springfield, O.
 Avery, B. F. & Sons, Louisville, Ky.
 Bement's, E. Sons, Lansing, Mich.
 Bradley, David Mfg. Co., Bradley, Ill.
 Deere & Mansur Co., Moline, Ill.
 Emerson Mfg. Co., Rockford, Ill.
 Gale Mfg. Co., Albion, Mich.
 Hapgood Plow Co., Alton, Ill.
 Hoosier Drill Co., Richmond, Ind.
 Keystone Mfg. Co., Sterling, Ill.
 King Drill Co., Logansport, Ind.
 McSherry Mfg. Co., Middletown, O.
 Mast, P. P. & Co., Springfield, O.
 Moline Plow Co., Moline, Ill.
 Ohio Rake Co., Dayton, O.
 Parlin & Orendorff Co., Canton, Ill.
 Pekin Plow Co., Pekin, Ill.
 Quincy Corn Planter Co. ("Barlow"), Quincy, Ill.
 Racine-Sattley Co., Springfield, Ill.
 Rock Island Plow Co., Rock Island, Ill.
 Rude Bros. Mfg. Co. (With Fertilizer Attachment), Liberty, Ind.
 St. Joseph Plow Co., St. Joseph, Mo.
 Sechler, D. M. Carriage Co. ("Black Hawk"), Moline, Ill.
 Shortsville Wheel Co., Shortsville, N. Y.
 Thomas Mfg. Co., Springfield, O.

Drills (Cotter)

Niles-Bement-Pond Co., 111 B'way, New York
 Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Philadelphia, Pa.

Drills (Cotton Planting)

Avery, B. F. & Sons, Louisville, Ky.
Deere & Mansur Co. ("Zigzag Deer Lever,"
"Ajax Scotch"), Moline, Ill.
Moline Plow Co., Moline, Ill.

Drills (Diamond)

Grant, Hugh (For Optical & Mechanical Use),
62 Commonwealth av, Cleveland, O.

Drills (Diamond Core)

(See Drills, Core)

Drills (Disc, Grain)

American Seeding Machine Co. Main Office,
Springfield, O.
Hoosier Drill Co., Richmond, Ind.
Mast, P. P. & Co., Springfield, O.
McSherry Mfg. Co., Middletown, O.
Rock Island Plow Co. (Comb Disc Drill & Har-
row), Rock Island, Ill.
Spangler Mfg. Co., York, Pa.
Van Brunt Mfg. Co., Horicon, Wis.
Thomas Mfg. Co. (5 disc), Springfield, O.

Drills (Electric)

(See also Drills, Electric Portable)

Clark, Jas., Jr., & Co., Louisville, Ky.
Emerson Electric Mfg. Co. (Motor Driven), 2030
Washington av, St. Louis, Mo.
Holtzer-Cabot Electric Co. ("H.-C." Vertical for
Jewelry Works, Drilling Lenses, etc.),
Brookline, Mass.
JEFFREY MFG. CO., Columbus, O.
(See adv. index & branch offices, end of book)
MacLeod, Walter & Co., 213 E. Pearl, Cincin-
nati, O.
Niles-Bement-Pond Co., 111 B'way, New York

***Drills (Electric, Air)**

INGERSOLL-RAND CO., 11 B'way,
New York. (See adv. index & branch offices,
end of book)

Drills (Electric Portable)

CHICAGO PNEUMATIC TOOL CO.
("Duntley," Air Cooled), Fisher bldg, Chi-
cago, Ill. (See adv. below; branch offices,
end of book)
Cincinnati Electrical Tool Co. (Direct Current,
Breast or Hand), Cincinnati, O.
Gem Mfg. Co., Pittsburg, Pa.
Hisey-Wolf Machine Co., Cincinnati, O.
Stow Flexible Shaft Co., 26th & Callowhill,
Phila., Pa.
United States Electric Tool Co. (Hand), 1938
W 8th, Cincinnati, O.

Drills (Electric Rock)

AMERICAN WELL WORKS, Aurora,
Ill. (See adv. index & branch offices, end of
book)
Crippen, H. D. Mfg. Co. ("Bor-Electric"), 25
Broad, New York
Gardner Elec. Drill & Machinery Co. ("Adams"),
Cleveland, O.
GENERAL ELECTRIC CO., Schenec-
tady, N. Y., & 44 Broad, New York. (See
adv. index & branch offices, end of book)
Goodman Mfg. Co., Halsted & 48th pl, Chi-
cago, Ill.
Howell's Mining Drill Co., Plymouth, Pa.
JEFFREY MFG. CO., Columbus, O.
(See adv. index & branch offices, end of book)
Marvin Electric Drill Co., Binghamton, N. Y.
Mine & Smelter Supply Co. ("Durkee"), Den-
ver, Colo.
Montana Electric Co., Butte, Mont.
Morgan-Gardner Electric Co., 2642 Shields av,
Chicago, Ill.

Drills (Electricians')

(See Drills & Bits, Electricians')

Drills (Fertilizer)

Allen, S. L. & Co., Philadelphia, Pa.
American Seeding Machine Co. (Grain), Main
Office, Springfield, O.

Bateman Mfg. Co., Grenloch, N. J.
Genung, C. W. ("Iron King" Hand)
Hench, Dromgold & Co., York, Pa.
Mast, P. P. & Co., Springfield, O.
Rude Bros. Mfg. Co., Liberty, Ind.
Spangler Mfg. Co., York, Pa.

Drills (Flexible Shaft)

Chicago Flexible Shaft Co., La Salle av & On-
tarlo, Chicago, Ill.
COATES CLIPPER MFG. CO.
("Coates"), Worcester, Mass. (See adv. in-
dex, end of book)
Gem Mfg. Co. ("Gem" Electric), Pittsburg,
Pa.
Stow Flexible Shaft Co., N 26th & Callowhill,
Phila., Pa.
Stow Mfg. Co., Binghamton, N. Y.

Drills (Fluted)

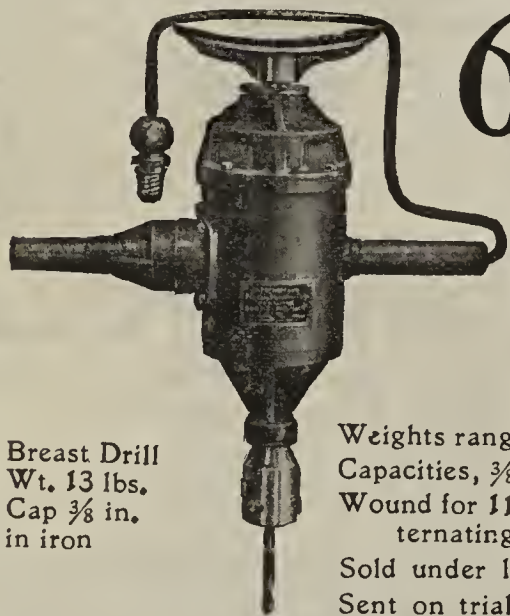
Cleveland Twist Drill Co., Cleveland, O.
WHITMAN & BARNES MFG. CO.,
West Pullman, Chicago, Ill. (See adv. in-
dex, end of book)

Drills (Gang)

Barnes, B. F. Co., Rockford, Ill.
Barnes, W. F. & Jno. Co., Rockford, Ill.
Foote, Burt & Co., 4101 St. Clair, Cleveland, O.
Gardam, Wm. & Son (Inc.), 45 Rose, New York
Hofer Mfg. Co., Freeport, Ill.
Moline Tool Co., Moline, Ill.
Pratt & Whitney Co., Hartford, Conn.
Prentice Bros. Co., Worcester, Mass.
Snyder, J. E. & Son, Worcester, Mass.

Drills (Garden Seed)

Avery, B. F. & Sons, Louisville, Ky.
WHITMAN & BARNES MFG. CO.,
West Pullman, Chicago, Ill. (See adv. in-
dex, end of book)



Breast Drill
Wt. 13 lbs.
Cap 3/8 in.
in iron

Weights ranging from 13 to 70 lbs.
Capacities, 3/8 in. to 3 in. in iron.
Wound for 110, 220 and 550 volts direct and al-
ternating currents.
Sold under liberal guarantee.
Sent on trial anywhere to responsible parties.

MANUFACTURED BY

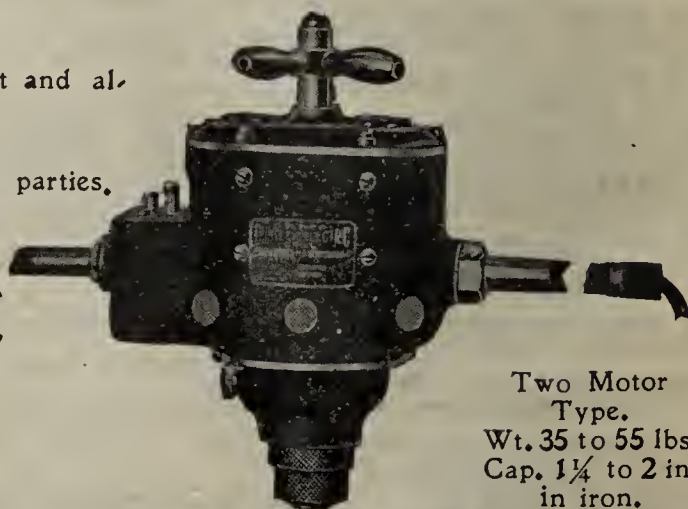
**CHICAGO PNEUMATIC
TOOL COMPANY**

CHICAGO—NEW YORK

60% EFFICIENCY

represents the mechanical output from the
electrical input as obtained by the use of our

**DUNTLEY AIR COOLED
ELECTRIC DRILLS**



Two Motor
Type.
Wt. 35 to 55 lbs.
Cap. 1 1/4 to 2 in.
in iron.

ROCK DRILLS

Over 87000 built and sold, and in operation all over the world, everywhere maintaining an unequaled record for speed, endurance and economy.

The **"Sergeant"**—an independent valve type with a uniformly high efficiency under all conditions—The best "all-around" drill for general mining and tunneling in hard rock with air or steam.—Catalog 45B.

The **"Rand Little Giant"**—a tappet valve type supreme in its class, unequaled as a steam drill and giving high economy with air.—Catalog 46.



THE TEMPLE-INGERSOLL

"ELECTRIC-AIR" DRILL

A new machine combining electrical economy and flexibility with air drill power, capacity and endurance—Solves the problem of rock drilling by electric power—Built in two sizes, equivalent to a $3\frac{1}{4}$ and $2\frac{1}{2}$ inch air drill, using respectively 5 H. P. and 3 H. P. at the drill—Simple, practical, powerful, absolutely unique.

—Catalog 20.

CALYX DIAMOND-LESS CORE DRILL

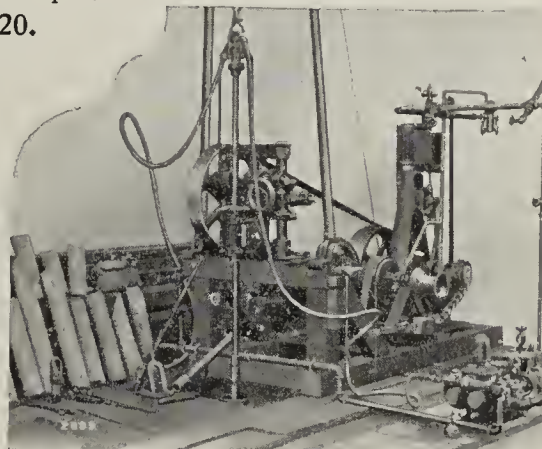
Does its work from 30 to 50 per cent. cheaper than any other core drill—Removes larger cores than any other drill, $1\frac{1}{8}$ to 15 inches diameter—Has never encountered a substance too hard for it to core at an economical rate—Has a depth capacity up to 6000 feet.—Catalog 91.

HAMMER DRILLS



Made in two types, each standard in its class—

The **"Little Jap"** valve tool and the **"Little Imp"** valveless—Hand or air feed mounting—For all purposes of light rock excavation in mine, quarry or contract.—Bulletins 2009 and 2011.

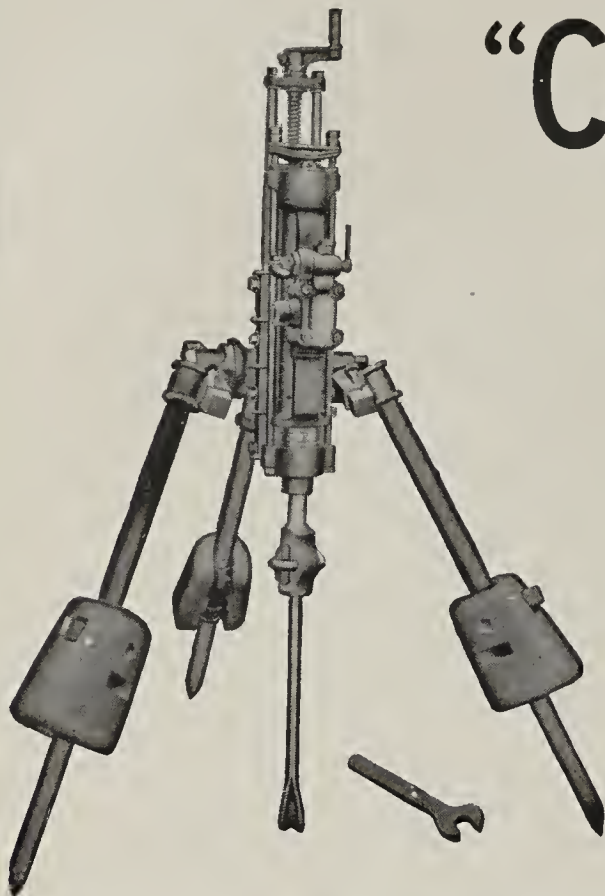


CHANNELERS COAL CUTTERS AIR COMPRESSORS SEE PAGE 242

AIR TOOLS PNEUMATIC PUMPING SYSTEMS SEE PAGE 896

INGERSOLL-RAND CO.

11 BROADWAY, NEW YORK



"CHICAGO GIANT" ROCK DRILLS

Have embodied therein all superior features discovered during 15 years experience in the construction of Rock Drills and Mining Machinery.

They are Simple—Strong—Durable—Efficient.

State your requirements and we can meet them.

CHICAGO PNEUMATIC TOOL COMPANY

CHICAGO

NEW YORK

EVERYWHERE

Manufacturers of Rock Drills of Every Style required, Air Compressors, Pneumatic Tools, Appliances, Hoists (Air and Electric), Electric Drills, Etc.

BOWES AUTOMATIC AIR-HOSE COUPLING

INSTANTLY
CONNECTED

NEVER
LEAKS

45
STYLES
AND
SIZES

FROM

$\frac{3}{8}$ INCH TO $1\frac{1}{2}$



OVER
500,000
IN
DAILY USE

WE MAKE AIR DRILLS
RIVETING HAMMERS
AND CHIPPING HAMMERS

CATALOG MAILED ON REQUEST

THE CLEVELAND PNEUMATIC TOOL CO.

NEW YORK
PITTSBURGH PHILADELPHIA

CLEVELAND, O.

ST. LOUIS CHICAGO
ATLANTA

Drills (Grain)

American Seeding Machine Co. (Hoe, Shoe, Disc, also Low Down Press), Springfield, O.
 Champion Wagon Co., Owego, N. Y.
 Crown Mfg. Co., Phelps, N. Y.
 Dowagiac Mfg. Co., Dowagiac, Mich.
 Farquhar, A. B. Co. (Force, Feed, Grain, Grass & Phosphate), York, Pa.
 Gelser Mfg. Co., Waynesboro, Pa.
 Gundlach, Philip M., Belleville, Ill.
 Hensch & Dromgold Co., Inc., York, Pa.
 Hocking Valley Mfg. Co., Lancaster, O.
 Hoosier Drill Co., Richmond, Ind.
 Houser & Haines Mfg. Co., Stockton, Cal.
 Janesville Machine Co., Janesville, Wis.
 King Drill Co., Logansport, Ind.
 King Drill Co., Nebraska City, Neb.
 McSherry Mfg. Co., Middletown, O.
 Mast, P. P. & Co. (Hoe, Shoe & Disc, Steel Frame, Combined Grain & Fertilizer), Springfield, O.
 Messinger Mfg. Co. (With Grass Seeder), Tatamy, Pa.
 Miller Grain Drill Mfg. Co., Newton, Kan.
 Monitor Drill Co. (Monitor Double Disc), Minneapolis, Minn.
 Peoria Drill & Seeder Co., Peoria, Ill.
 Rowell, J. S. Mfg. Co., Beaver Dam, Wis.
 Rude Bros. Mfg. Co. (Hoe, Shoe & Disc), Liberty, Ind.
 Spangler Mfg. Co. ("Spangler" Low-down), York, Pa.
 Spring Grain Drill Mfg. Co., Peru, Ind.
 Thomas Mfg. Co., Springfield, O.
 Van Brunt Mfg. Co. (Shoe & Hoe & Low Down Press), Horicon, Wis.
 Whitman Agricultural Co., 6900 S B'way, St. Louis, Mo.
 Withington & Cooley Mfg. Co., Jackson, Mich.

***Drills (Hammer)**

INGERSOLL - RAND CO., 11 B'way,
 New York. (See adv. index & branch offices, end of hook)

Drills (Hand Power)

American Machine Construction & Repairing Co., 1039 Race, Philadelphia, Pa.
 Buffalo Forge Co., Buffalo, N. Y.
 Champlon Blower & Forge Co., Lancaster, Pa.
 Chicago Flexible Shaft Co., La Salle av. & Ontario, Chicago, Ill.
DALLETT, THOS. H. CO. (Electric Duplex), York & Sedgley av., Phila., Pa. (See adv. index, end of book)
 Duff Machine Co., 8 Western av., Lowell, Mass.
 Foos Mfg. Co. (Blacksmiths), Springfield, O.
 Fray, Jno. S. & Co. (Malleable Iron Frame), Bridgeport, Conn.
 Goodell-Pratt Co. (Double Geared, etc.), Greenfield, Mass.
 Hunter, Jas. Machine Co., North Adams, Mass.
 Illinois Iron & Bolt Co., Carpentersville, Ill.
 Jones, E. D. & Sons Co. (For Metal), Pittsfield, Mass.
 Millers Falls Co., Millers Falls, Mass. & 28 Warren, N. Y.
MORSE TWIST DRILL & MACHINE Co., New Bedford, Mass. (See adv. index, end of hook)
 North Bros. Mfg. Co. ("Yankee," Automatic & Reciprocating, for Carpenters, etc.), corner N American & Lehigh av., Phila., Pa.
 Olsen, Tinlins & Co., 500 N 12th, Phila., Pa.
 Prentice Bros. Co., Worcester, Mass.
 Reed Francis Co., Worcester, Mass.
 Rutschmann, Oscar F., 426 Berks, Phila., Pa.
 Stow Flexible Shaft Co. (Electric), N 26th & Callowhill, Phila., Pa.
 Stow Mfg. Co., Binghamton, N. Y.
 Tower & Lyon Co., 95 Chambers, N. Y.
 Upton & Gillman (With Screw Feed & Chain Attachment), Lowell, Mass.

Drills (Hollow)

Cleveland Twist Drill Co., Cleveland, O.
MORSE TWIST DRILL & MACHINE Co., New Bedford, Mass. (See adv. index, end of hook)
 National Twist Drill & Tool Co. ("National," Hollow Mill), Detroit, Mich.

Drills (Hollow & Jamper Brick)

Dicke Tool Co., Downers Grove, Ill.
 Pollard, Jos. G. (to drill holes in brick for expansion bolts), 140 Raymond, Brooklyn, N. Y.

***Drills (Letter)**

MORSE TWIST DRILL & MACHINE Co., New Bedford, Mass. (See adv. index, end of hook)

***Drills (Marble & Granite)**

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)
ANDERSON, W. H. TOOL & SUPPLY Co., 14 Macomb, Detroit, Mich. (See adv. index, end of book)
 Lincoln Iron Works, Rutland Vt.

Drills (Mine Ratchet)

Blittenhender, Geo. H., Plymouth, Pa.
 Nixon-Ratchet Mining Drill Co., Chattanooga, Tenn.

Drills (Mine, Self-Feeding)

Ohio Brass Co., Mansfield, Ohio.

***Drills (Morse Taper)**

MORSE TWIST DRILL & MACHINE Co. (With Oil Holes), New Bedford, Mass. (See adv. index, end of hook)
NEW PROCESS TWIST DRILL CO. (Taper Shank), Taunton, Mass. (See adv. index, end of book)

Drills (Multiple Spindle)

Ajax Mfg. Co. (For Drilling Brake Pins, Bolts, etc., 6, 8, 10 and 12 spindles), Cleveland, O.
 Andrew, M. L. & Co., 2352 Spring Grove av., Cincinnati, O.
 Barnes, B. F. Co., Rockford, Ill.
 Barnes, W. F. & Jno. Co., Rockford, Ill.
 Barr, Henry G. & Co., Worcester, Mass.
 Baush Machine Tool Co. (Vertical & Horizontal), Springfield, Mass.
 Bleckford Drill & Tool Co., Front & Pike, Cincinnati, O.
 Clark, Jas. Jr. & Co. ("Willey," Three Spindle Electrically Driven), 313 W Main, Louisville, Ky.
 Cleveland Machine & Mfg. Co., 1198 Hamilton, Cleveland, O.
 Dwight Slate Machine Co., Hartford, Conn.
 Fenn Machine Co. (Two Spindle & Four Spindle Adjustable), Hartford, Conn.
 Foote, Burt & Co., 4101 St. Clair, Cleveland, Ohio
 Fox Machine Co., Grand Rapids, Mich.
FREVERT MACHINERY CO. (Mfrs' Agents), 18 Dey, New York. (See adv. index, end of hook)
 Gardam, Wm. & Son (Inc.), 45 Rose, N. Y.
 Garvin Machine Co., 137 Varick, New York
 Gowanda Agricultural Works (3 Spindle), Gowanda, N. Y.
 Harrington, E. Son & Co., 17th & Callowhill, Philadelphia, Pa.
HENRY & WRIGHT MFG. CO., 133 Sheldon, Hartford, Conn. (See adv. index, end of book)
 Hoefer Mfg. Co., Freeport, Ill.
 Langelier Mfg. Co., 67 Clifford, Providence, R. I.
 Moline Tool Co., Moline, Ill.
 National Automatic Tool Co. (Full Automatic Universal Drill Press), Dayton, O.
 National Machine Co. (Spindle Drill Presses), Hartford, Conn.
 Newton Machine Tool Works, 2343 Vine, Phila., Pa.
 Niles-Bement-Pond Co., Main Office, 111 B'way, New York
 Norton-Jones Machine Tool Works, Plainville, Conn.
 Pratt & Whitney Co., Hartford, Conn.
 Prentice Bros. Co., Worcester, Mass.
 Quincy-Manchester-Sargent Co., Old Colony bldg, Chicago, Ill., & 114 Liberty, New York
 Reed, F. E. Co. (16 to 20 in. Swing), Worcester, Mass.
 Reed, Francis Co. (5 to 10 Spindles), Worcester, Mass.
 Sellers, Wm. & Co. (Inc.) (For Boller & Plate Work), 1600 Hamilton, Phila., Pa.
SHUSTER, F. B. CO., New Haven, Conn. (See adv. index, end of hook)
 Sigourney Tool Co., Hartford, Conn.
TUOHY BROS. CO., 95 Liberty, New York. (See adv. index, end of book)
 Williams, White & Co., Moline, Ill.

Drills (Oil Tube)

Standard Tool Co., Cleveland, O.

***Drills (Paper)**

MORSE TWIST DRILL & MACHINE Co., New Bedford, Mass. (See adv. index, end of book)

Drills (Piston Air)

(See Pneumatic Piston Drills)

Drills (Plug)

(See Pneumatic Plug Drills)

Drills (Pneumatic)

(See Pneumatic Drills)

Drills (Pneumatic Rock)

(See Pneumatic Rock Drills)

***Drills (Pod)**

MORSE TWIST DRILL & MACHINE Co., New Bedford, Mass. (See adv. index, end of hook)

Drills (Portable)

(See also Drills, Hand; also Pneumatic Drills)
AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)
 Bleckford Drill & Tool Co., Front & Pike, Cincinnati, O.
 Chicago Flexible Shaft Co., La Salle av. & Ontario, Chicago, Ill.
COATES CLIPPER MFG. CO. ("Coates" Flexible Shaft), Worcester, Mass. (See adv. index, end of hook)
DALLETT, THOS. H. CO. (Electric Rope Driven), York & Sedgley av., Phila., Pa. (See adv. index, end of hook)
 Gem Mfg. Co. ("Gem" Flexible Shaft), Pittsburgh, Pa.
 Harrington, E. Son & Co., 17 & Callowhill, Philadelphia, Pa.
 Nazel Engineering & Machine Work, Ridge av. & 11th, Phila., Pa.
Newton Machine Tool Works (Electrically Driven), 2343 Vine, Phila., Pa.
 Niles-Bement-Pond Co., 111 B'way, New York
OIL WELL SUPPLY CO., 215 Water, Pittsburg, Pa. (See adv. index, end of book)
 Reed, F. E. Co., Worcester, Mass.
 Snyder, J. E. & Son, Worcester, Mass.
 Stow Mfg. Co., Binghamton, N. Y.
STRONG, CARLISLE & HAMMOND Co. (The Berlin), Cleveland, O. (See adv. index, end of hook)
WHITING FOUNDRY EQUIPMENT Co., General Office & Works, Harvey, Ill. (See adv. index & branch offices, end of book)

Drills (Post)

Box, Alfred & Co. ("Radical"), 813 N Front, Phila., Pa.
 Boynton & Plummer, Worcester, Mass.
 Goodell-Pratt Co. (Or Wall), Greenfield, Mass.
 Illinois Iron & Bolt Co., Carpentersville, Ill.
 Harrington, E. Son & Co., 17 & Callowhill, Philadelphia, Pa.
 Pittsburg Tool & Drop Forge Co. ("Cheswick," for Steel or Wood), Cheswick, Pa.
 Reed, Francis Co., Worcester, Mass.
 Silver Mfg. Co. (Hand or Belt), Salem, O.
 Snyder, J. E. & Son, Worcester, Mass.

Drills (Prospecting, Hand or Power)

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)
 Birdshoro Steel Foundry & Machine Co., Birdshoro, Pa.
 Cyclone Drill Co., Orrville, O.
 Keystone Driller Co., Beaver Falls, Pa.
SULLIVAN MACHINERY CO. (Diamond Core), Railway Exchange bldg, Chicago, Ill. (See adv. index & branch offices, end of book)

Drills (Radial)

American Tool Works Co., 6th & Eggleston av., Cincinnati, O.
Aurora Tool Works, Aurora, Ind.
Baush Machine Tool Co. (Belt or Gear Driven), Springfield, Mass.
Bickford Drill & Tool Co., c Front & Pike, Cincinnati, O.
Box, Alfred & Co. (Radial Gang, etc.), 813 N Front, Phila., Pa.
Clark, Jas., Jr. & Co. ("Willey," Semi-Radial Electrically Driven), 313 W Main, Louisville, Ky.
CLEVELAND PUNCH & SHEAR Works Co. (Horizontal Swinging), 1306 E 40th, Cleveland, O. (See adv. index, end of book)
Dresses Machine Tool Co., Cincinnati, O.
Fosdick Machine Tool Co., Cincinnati, O.
FREVERT MACHINERY CO. (Mfrs') Agents, 18 Dey, New York. (See adv. index, end of book)
Gang, William E. Co., 1543 Queen City av., Cincinnati, O.
Hamilton Machine Tool Co. (60 to 120-inch), Hamilton, O.
Harrington, E. Son & Co., 17th & Callowhill, Philadelphia, Pa.
HENRY & WRIGHT MFG. CO., 133 Sheldon, Hartford, Conn. (See adv. index, end of book)
Kane & Roach, Syracuse, N. Y.
Mueller Machine Tool Co. (2½ to 4-Foot Arm, etc.), Cincinnati, O.
Niles-Bement-Pond Co., 111 B'way, New York
Optenberg & Sonneman, Sheboygan, Wis.
Prentice Bros. Co. (Gear Speed Change), Worcester, Mass.
Putnam Machine Co., Fitchburg, Mass.
Roos & Mill, Cincinnati, O.
Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Phila., Pa.
STRONG, CARLISLE & HAMMOND Co., 333-344 Frankfort av, N. W. Cleveland, O. (See adv. index, end of book)
TUOHY BROS. CO., 95 Liberty, New York. (See adv. index, end of book)

Drills (Railway Track)

Boynton & Plummer, Worcester, Mass.
Brown, Harold P., 120 Liberty, New York
Buda Foundry & Mfg. Co. ("Paulus" Automatic Feed, "Buda" Heavy Base & "Wilson" for Light Work, etc.), Railway Exchange bldg, Chicago, Ill.
Cleveland Armature Works, Coe & Hamilton, Cleveland, O.
Cook's Standard Tool Co. ("Standard"), Kalamazoo, Mich.
FAIRBANKS, MORSE & CO. ("Eclipse," Self-Feeding), Franklin & Monroe, Chicago, Ill. (See adv. index & branch offices, end of book)
Flather, Mark Planer Co. (Three Spindle), Nashua, N. H.
Fox Bros. & Co., 126 Lafayette, New York
Handlan-Buck Mfg. Co. (Self-feeding, "Waterman," "Paulus," "Beland," "Underwood," "Champion," "Noble," & "Union Pacific"), 212 N 3d, St. Louis, Mo.
INGERSOLL-RAND CO., 11 B'way, New York. (See adv. index & branch offices, end of book)
Irving Mfg. & Tool Co. (J. F. McCoy Co., Prop.), 159 Chambers, New York
Johnson, Isaac G. & Co. ("Vletor"), Spuyten Duyvil, N. Y.
Kalamazoo Railway Supply Co., Kalamazoo, Mich.
Lovejoy, T. H. (The "Beland"), 90 Ohio, Chicago, Ill.
Michigan Machinery Co. (The Sweet), Ypsilanti, Mich.
Pettibone, Mulliken & Co. ("Ball," "Union" & "Perfection"), 204 Dearborn, Chicago, Ill.
Pratt & Whitney Co. ("Renshaw"), Hartford, Conn.
Quincy-Manchester-Sargent Co. ("Q. & C."), Old Colony bldg, Chicago, Ill.
Reed, Francis, Co., Worcester, Mass.
Schuttler Ratchet Drill Co., 242 W Lake, Chicago, Ill.
Sellers, Wm. & Co. (Inc.) (Spindle Vertical), 1600 Hamilton, Phila., Pa.
Stow Flexible Shaft Co., N 26th & Callowhill, Philadelphia, Pa.
Stow Mfg. Co., Binghamton, N. Y.
Van Dorn-Elliott Electric Co. (Electric Portable), Cleveland, O.
Vicksburg Mfg. Co., Vicksburg, Mich.
Walworth Mfg. Co. ("Smith"), 132 Federal, Boston, Mass.

Drills (Ratchet)

Armstrong Bros. Tool Co. ("Armstrong" Universal), 104 N San Francisco av, Chicago, Ill.
Atha Tool Co., Newark, N. J.
Bignall & Keeler Mfg. Co., Edwardsville, Ill.
Billings & Spencer Co. (Double-Acting "Packer" for Flat & Square Shank Drills), Hartford, Conn.
Braunsdorf-Mueller Co., Elizabeth, N. J.
Brewer Bros., Phila., Pa.
Curtis & Curtis Co. (Flat & Pipe), Bridgeport, Goodell-Pratt Co., Greenfield, Mass. Conn.
Hunter, Jas. Machine Co., North Adams, Mass.
Irving Mfg. & Tool Co. (J. F. McCoy, Prop.), 159 Chambers, New York
Keystone Mfg. Co. ("Monarch" & "Keystone"), 41 Chandler, Buffalo, N. Y.
Lowell Wrench Co., Worcester, Mass.
Millers Falls Co. (Fiat), Millers Falls, Mass., 28 Warren, New York City
NEW PROCESS TWIST DRILL CO. (Taper, Square Shank, etc.), Taunton, Mass. (See adv. index, end of book)
PARKER, CHAS., CO., Meriden, Conn. (See adv. index, end of book)
Peck, Stow & Wilcox Co., Southington, Conn., & 27 Murray, New York
Pratt & Whitney Co. ("Renshaw"), Hartford, Conn.
Reed Francis, Co. (Plain & Geared), Worcester, Mass.
Schuttler Ratchet Drill Co., 242 W Lake, Chicago, Ill.
WHITMAN & BARNES MFG. CO., West Pullman, Chicago, Ill. (See adv. on following page)

Drills (Rice Planting)

American Seeding Machine Co., Main Office, Springfield, O.

Drills (Rock, Gasoline)

CHICAGO PNEUMATIC TOOL CO., Fisher Bldg., Chicago, Ill. (See adv. index & branch offices, end of book)
Gasoline Rock Drill Co. ("Bull Dog"), 218 S 4th, Phila., Pa.

Drills (Rock, Hand)

CHICAGO PNEUMATIC TOOL CO., Fisher Bldg., Chicago, Ill. (See adv. index & branch offices, end of book)
Crippen, H. D. Mfg. Co., (The "Jackson"), 25 Broad, New York
Cyclone Drill Co., Orrville, O.
Hasenzahl, Wm., 315 E 2d, Cincinnati, O.
Motley, Thornton N. Co. (Jackson), 66 Broad, New York
Rice, John V. Jr. & Co. (Gasoline), Borden-town, N. J.

Drills (Rock, Steam)

(See also Drills, Electric Rock; also Pneumatic Rock Drills)
ACME ROAD MACHINERY CO., Frankfort, N. Y. (See adv. index, end of book)
Burleigh Rock Drill Co., Fitchburg, Mass.
CHICAGO PNEUMATIC TOOL CO., Fisher Bldg., Chicago, Ill. (See adv. index & branch offices, end of book)
CONTRACTORS SUPPLY & EQUIPMENT CO., Old Colony bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
FAIRBANKS, MORSE & CO. ("Sinclair" all Steel), Chicago, Ill. (See adv. index & branch offices, end of book)
INGERSOLL-RAND CO., 11 B'way, New York. (See adv. index & branch offices, end of book)
JEFFREY MFG. CO., Columbus, O. (See adv. index & branch offices, end of book)
Le Grand Mine Drill Works, (Coal & Rock Mine), Wilkes-Barre, Pa.
Leyner, J. Geo., Engineering Works Co., Littleton, Col.
McKernan Drill Co., 170 B'way, New York
Pratt, D. W. Machinery Co. ("Pratt"), 614 N 3d, St. Louis, Mo.
Rogers, Jno. M., Gloucester City, N. J.
SHAW, WILLIS (New & Second Hand), 171 La Salle, Chicago, Ill. (See adv. index, end of book)
SULLIVAN MACHINERY CO. (Steam or Air), Railway Exchange Bldg., Chicago, Ill. (See adv. index & branch offices, end of book)
Wickes Bros. ("Murphy's" Little Champion), 137 Liberty, New York

Drills (Rotary)

(See Pneumatic Rotary Drills).

*Drills (Routing Bit)

MORSE TWIST DRILL & MACHINE Co., New Bedford, Mass. (See adv. index, end of book)

Drills (Sensitive)

Barnes, B. F. Co., Rockford, Ill.
Barnes, W. F. & Jno. Co., Rockford, Ill.
Barr, H. G. & Co., Worcester, Mass.
Buescher Band Instrument Co., Elkhart, Ind.
Carroll-Jamieson Machine Tool Co. (11-Inch Belt Driven), Batavia, O.
Clark, Jas. Jr. & Co. ("Willey," Electrically Driven), 313 W Main, Louisville, Ky.
Fenn Machine Co., 734 Main, Hartford, Conn.
Foot, Burt & Co., 4101 St. Clair, Cleveland, O.
Fox Machine Co., Grand Rapids, Mich.
Gardam, Wm. & Son, 45 Rose, N. Y.
Garvin Machine Co., 137 Varick, N. Y.
Hamilton Machine Tool Co., Hamilton, O.
Hardinge Bros., 1036 Lincoln av, Chicago, Ill.
Harrington, E. Son & Co., 17th & Callowhill, Phila., Pa.
Helmold, J. F. & Bro., A cor Dominick, Chicago, Ill.
HENRY & WRIGHT MFG. CO., 133 Sheldon, Hartford, Conn. (See adv. index, end of book)
Knecht Bros. Co. (Friction), 2442 Beekman, Cincinnati, O.
Langelier Mfg. Co. (Upright), 67 Clifford, Providence, R. I.
Lord, A. C. Optical Co., Tilton, N. H.
Miami Valley Machine Tool Co., Dayton, O.
National Machine Co. (Drill Presses), Hartford, Conn.
Niles-Bement-Pond Co., 111 B'way, New York
Norton-Jones Mch. Tool Works, Plainville, Conn.
Oliver, W. W. Mfg. Co. (Jewelers, Etc.), 1483 Niagara, Buffalo, N. Y.
Pratt & Whitney Co., Hartford, Conn.
Prentice Bros. Co., Worcester, Mass.
Reed, Francis Co., Worcester, Mass.
Rhoades Mfg. Co. (Sensitive Drill Press), Columbus, O.
St. Louis Mch. Tool Co. ("Coe"), St. Louis, Mo.
Sibley Machine Tool Co., South Bend, Ind.
Sigourney Tool Co., Hartford, Conn.
Slate, Dwight, Machine Co., Hartford, Conn.
Washburn Shops of the Polytechnic Institute, Worcester, Mass.
West St. Louis Machine & Tool Co., 606 Manchester av, St. Louis, Mo.

*Drills (Shade Roller)

MORSE TWIST DRILL & MACHINE Co., New Bedford, Mass. (See adv. index, end of book)

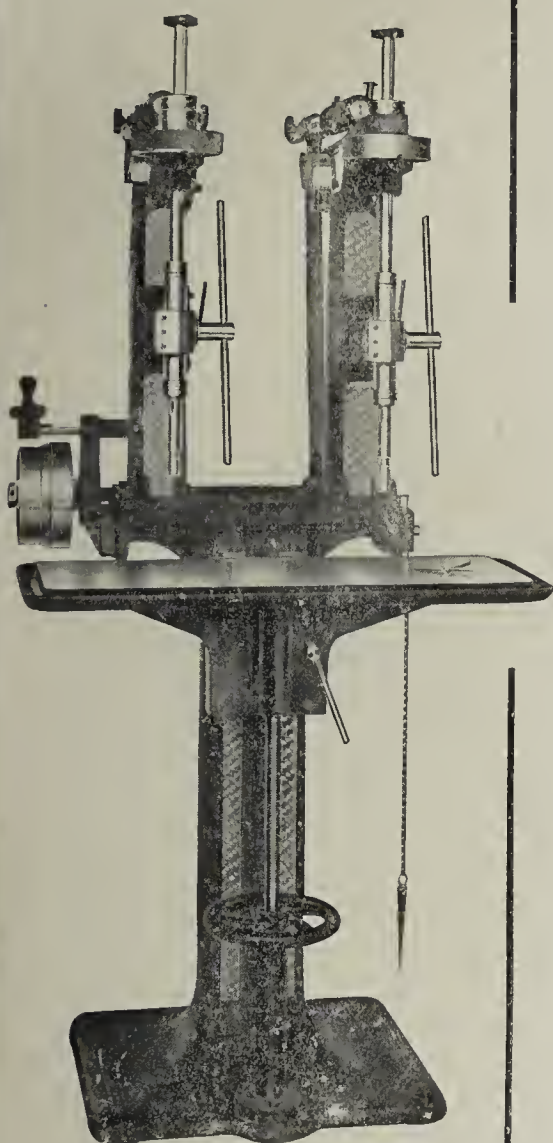
Drills (Shell)

American Die & Tool Co., Reading, Pa.
Lord, L. L. Co. ("Lord" Combination), Meadville, Pa.
MORSE TWIST DRILL & MACHINE Co., New Bedford, Mass. (See adv. index, end of book)

When writing to firms
whose names appear
in this book please
mention

HENDRICKS'
COMMERCIAL
REGISTER.

Why H. & W. Drills Do 200 to 400% More Work.

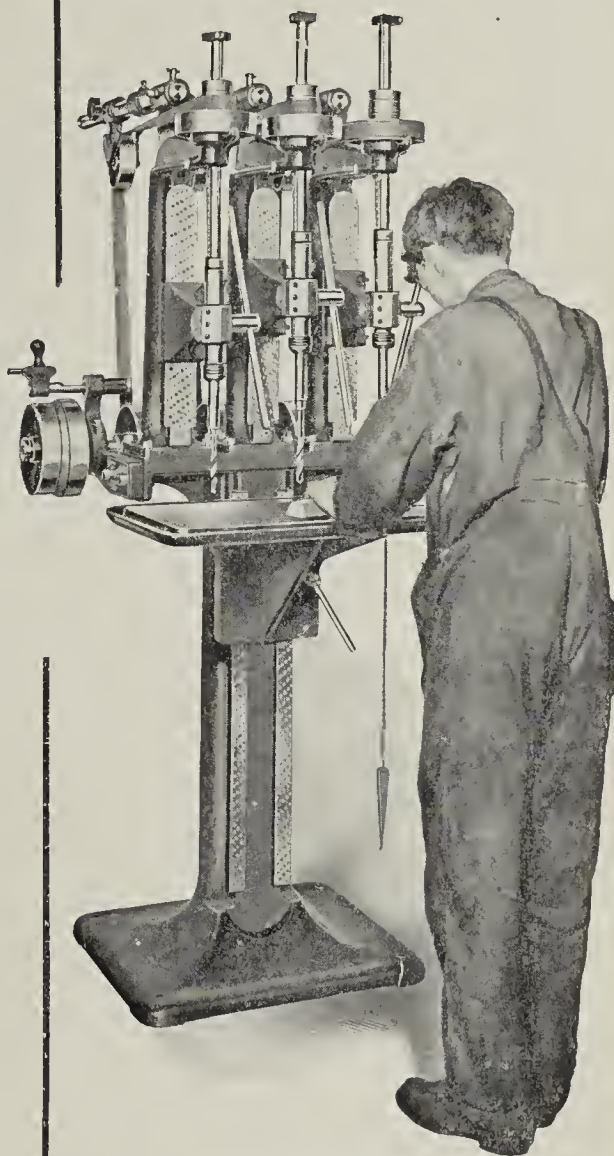


RICE PATENT

¶ If you take one step forward and two backward how soon will you reach your destination? That's the way most drills run. Most of the power never reaches the drill point. It is spilled on the way. That's why the H. & W. Ball Bearing Drill does 200 to 400% more work. It has one continuous cemented belt that takes every ounce of power to the drill point.

¶ It has four speeds and two steps on the spindle and driving pulleys.

¶ Get H. and W. Drills and take three steps forward.



RICE PATENT

The Henry & Wright Mfg. Co.

111-137 Sheldon St, Hartford, Conn., U. S. A.

A stock of our machines carried on hand at all times by the following Agents: Hill, Clarke & Co., New York, Boston, Chicago, St. Louis; W. M. Pattison Supply Co., Cleveland; E. A. Kinsey Co., Cincinnati; J. W. Wright & Co., St. Louis. We are also represented by the Chas. G. Smith Co., Pittsburg, Pa.; W. E. Shipley, Philadelphia; Cotton States Belting & Supply Co., Atlanta; Roy Machinery Co., Minneapolis; Bailey-Smith Machinery Co., San Francisco.

CARBON STEEL DRILLS

OUR REGULAR PRODUCT

High Speed Steel Drills

OUR SPECIALTY



Our goods are used by some of the largest machine shops in the world, they having tested them thoroughly before placing their orders. ♣ ♣

We have convinced OTHERS.

Let us convince YOU.

New Process Twist Drill Co.

TAUNTON, MASS., U. S. A.

Drills (Slate)

AMERICAN WELL WORKS, Aurora,
Ill. (See adv. index & branch offices, end of
Ruggles Machine Co., Poultney, Vt. book)

Drills (Star)

Braunsdorf-Mueller Co., Elizabeth, N. J.
Brewer Bros., Phila., Pa.
STEWART & ROMAINE MFG. CO.,
124 N 6th, Philadelphia, Pa. (See adv. index,
end of book)
Stortz, Jno. & Son (Stone), 210 Vine, Phila.,
Pa.

Drills (Stove)

Lord, L. L. Co., Meadville, Pa.

***Drills (Straight Shank)**

MORSE TWIST DRILL & MACHINE
Co., New Bedford, Mass. (See adv. on
following page)
NEW PROCESS TWIST DRILL CO.
(Twist), Taunton, Mass. (See adv. index, end
of book)

***Drills (Straightening)**

MORSE TWIST DRILL & MACHINE
Co., New Bedford, Mass. (See adv. on
following page)
NEW PROCESS TWIST DRILL CO.
(Twist), Taunton, Mass. (See adv. index, end
of book)

***Drills (Submarine)**

INGERSOLL-RAND CO. ("Haeseler"
Pneumatic), 11 B'way, New York. (See adv.
index and branch offices, end of book)

Drills (Suspension)

Baush Machine Tool Co., Springfield, Mass.
Bickford Drill & Tool Co., c Front & Pike,
Cincinnati, O.
CLEVELAND PUNCH & SHEAR
Works Co., 1306 E. 40th, Cleveland, O. (See
adv. index, end of book)
New Haven Mfg. Co., New Haven, Conn.
Niles-Bement-Pond Co., 111 B'way, New York
Prentice Bros. Co., Worcester, Mass.
Reed, Francis Co., Worcester, Mass.

Drills (Tap)

BAY STATE TAP & DIE CO., Mans-
field, Mass. (See adv. index, end of book)
Chicago Screw Co. (For Machine Screw Taps),
2 N. Canal, Chicago, Ill.
Detroit Twist Drill Co., Detroit, Mich.
MORSE TWIST DRILL & MACHINE
Co., New Bedford, Mass. (See adv. on
following page)
NEW PROCESS TWIST DRILL CO.
(Hot Forged), Taunton, Mass. (See adv. in-
dex, end of book)

Putnam Machine Co., Fitchburg, Mass.
Standard Tool Co., Central av & P. Ry., Cieve-
land, Ohio
Winter Bros. Co., Wrentham, Mass.

***Drills (Taper)**

MORSE TWIST DRILL & MACHINE
Co. (Square Shank), New Bedford, Mass.
(See adv. on following page)
NEW PROCESS TWIST DRILL CO.
(Taper Square Shank, Ratchet), Taunton,
Mass. (See adv. index, end of book)

***Drills (Three & Four Groove)**

MORSE TWIST DRILL & MACHINE
Co., New Bedford, Mass. (See adv. on
following page)

Drills (Track)

(See Drills, Railway Track)

Drills (Traveling)

Bickford Drill & Tool Co., Front c Pike, Cin-
cinnati, O.

Drills (Traverse)

Fitchburg Machine Works, Fitchburg, Mass.
National Machine Co. (Double Head & Adjust-
able), Hartford, Conn.
Pratt & Whitney Co. (Double Head), Hartford,
Conn.
Putnam Machine Co., Fitchburg, Mass.

Drills (Turret)

National Separator & Mfg. Co. (Turret Drill
Presses), Manchester, N. H.
Niles-Bement-Pond Co., 111 B'way, New York
Quint, A. D., Hartford, Conn.

Drills (Twist)

American Die & Tool Co. ("A. D. & T. Co."),
Reading, Pa.
Baldwin Steel Co. (Hudson), 133 Reade, New
York
Cleveland Twist Drill Co., Cleveland, O.
Detroit Twist Drill Co. ("Graham"), Detroit,
Mich.
Etna Co., Taunton, Mass.
Lincoln & Williams Twist Drill Co., Taunton,
Mass.
MORSE TWIST DRILL & MACHINE
Co., New Bedford, Mass. (See adv. on
following page)
National Twist Drill & Tool Co. ("National"),
Detroit, Mich.
NEW PROCESS TWIST DRILL CO.
(Hot Forged), Taunton, Mass. (See adv.
index, end of book)
Omega Steel & Tool Co. (Omega Steel), An-
sonia, Conn.
Standard Tool Co., Central av & P Ry., Cieve-
land, O.
Swan, Jas. Co. (For Wood), Seymour, Conn.
Syracuse Twist Drill Co., Syracuse, N. Y.
WHITMAN & BARNES MFG. CO.,
(Also Self-Oiling), Chicago, Ill. (See adv.
below)

Drills (Twist, Letter)

NEW PROCESS TWIST DRILL CO.,
Taunton, Mass. (See adv. index, end of
book)

Drills (Universal)

American Tool Works Co., Cincinnati, O.
Bickford Drill & Tool Co. (Half Universal Rad-
dial), c Front & Pike, Cincinnati, O.
Detrick & Harvey Machine Co. (Horizontal),
508 E Preston, Baltimore, Md.
Dreses Machine Tool Co., Cincinnati, O.
Foote, Burt & Co. (Adjustable), 4101 St. Clair,
Cleveland, O.
Niles-Bement-Pond Co., 111 B'way, New York
Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Phila.,
Pa.

Drills (Upright)

Aurora Tool Works (Upright Drill Presses,
12-50 inch Swing), Aurora, Ind.
Barnes, B. F. Co. (Hand & Foot Power), Rock-
ford, Ill.
Barnes, W. F. & Jno. Co., Rockford, Ill.
Barr, Henry G. & Co. (Spindle), Worcester,
Mass.
Bickford Drill & Tool Co., cor. Front & Pike,
Cincinnati, O.
Boynton & Plummer (Hand & Power Self-Feed-
ing Upright & Horizontal), Worcester,
Mass.
Burke Machinery Co., Cleveland, O.
Cincinnati Machine Tool Co., Cincinnati, O.
Dietz Machine Tool Co., Cincinnati, O.
Fay & Scott, Dexter, Me.
Fox Machine Co., Grand Rapids, Mich.
FREVERT MACHINERY CO. (Mfrs'. Agents),
18 Dey, New York. (See adv. in-
dex, end of book)
Gardam, Wm. & Son (Inc.), 45 Rose, New York
Hamilton Machine Tool Co. (12 to 44-inch),
Hamilton, O.
Hoefler Mfg. Co., Freeport, Ill.
Knecht Bros. Co., 2442 Beekman, Cincinnati, O.
Langelier Mfg. Co., Providence, R. I.
Mechanics Machine Co., Rockford, Ill.
New Haven Mfg. Co. (With Automatic Power
Feed), New Haven, Conn.
Niles-Bement-Pod Co., 111 B'way, New York
Norton-Jones Machine Tool Works, Plainville,
Conn.
Pratt & Whitney Co., Hartford, Conn.
Prentice Bros. Co., Worcester, Mass.
Putnam Machine Co., Fitchburg, Mass.
Reed, F. E. Co., Worcester, Mass.
Reed, Francis Co. (Hand & Power, for Black-
smiths, Machinists, etc.), Worcester, Mass.
Sellers, Wm. & Co. (Inc.), 1600 Hamilton,
Phila., Pa.
Sibley Machine Tool Co., South Bend, Ind.
Sigourney Tool Co., Hartford, Conn.
Snyder, J. E. & Son, Worcester, Mass.
TUOHY BROS. CO., 95 Liberty, New
York. (See adv. index, end of book)
Wiley & Russell Mfg. Co. ("Green River" Up-
right Self Feeding Drilling Machines, Hand
& Power), Greenfield, Mass.

Drills (Wire Gauge)

NEW PROCESS TWIST DRILL CO.,
Taunton, Mass. (See adv. index, end of
book)

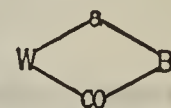
QUALITY in "DIAMOND" TWIST DRILLS is Guaranteed Highest



We Manufacture all Styles and Sizes and carry Large Stocks



The Whitman & Barnes Mfg. Co.



FACTORIES: AKRON, O. CHICAGO, ILL. ST. CATHARINES, ONT.
STORES AND WAREHOUSES: NEW YORK, N. Y. BOSTON, MASS. CINCINNATI, O. KANSAS CITY, MO.
EXPORT REPRESENTATIVE:
A. J. BARNES, 21 STATE ST., NEW YORK, U. S. A. **EUROPEAN REPRESENTATIVE:**
THEODORE BUTLER, 149 QUEEN VICTORIA ST., LONDON, ENG.

Drills & Bits (Electricians')

Cincinnati Tool Co. ("Hargraves"), Cincinnati, O.
 Cleveland Twist Drill Co., Cleveland, O.
 Detroit Twist Drill Co., Detroit, Mich.
 Dicke Tool Co., Downers Grove, Ill.
 Mayhew, H. H. Co., Shelburne Falls, Mass.
MORSE TWIST DRILL & MACHINE CO., New Bedford, Mass. (See adv. index, end of book)
NEW PROCESS TWIST DRILL CO. (Twist), Taunton, Mass. (See adv. index, end of book)
 Standard Tool Co., Central av & P. Ry., Cleveland, O.
 Syracuse Twist Drill Co., Syracuse, N. Y.

Drills & Listers (Combined)

Bradley, David Mfg. Co., Bradley, Ill.
 Gale Mfg. Co. (Riding & Walking), Albion, Mich.
 Moline Plow Co. (Riding), Moline, Ill.
 Racine-Sattley Co., Springfield, Ill.

***Drip Pans (Automobile)**

BURROWES, E. T. CO. ("ROYAL"), Portland, Me. (See adv. index, end of book)

Drips (Gauge Cock)

Knapp Mfg. Co., 25 Frankfort, New York

Drive Pole Steps

(See Pole Steps, Drive)

Drivers (Brad)

(For Boarding or Nailing Door Mouldings)
 Seymour & Whitlock, 43 Lawrence, Newark, N. J.

Drivers (Coopers' Hoop)

Vaughn & Bushnell Mfg. Co. ("V. & B."), 875 W Carroll av, Chicago, Ill.

Drives (Angle Chain)

Ams, Max Machine Co. ("Positive"), Mt. Vernon, N. Y.

***Drives (Motor)**

ELECTRIC CONTROLLER & SUPPLY CO. (Direct, for Planers, etc.), Cleveland, O. (See adv. index & branch offices, end of book)

Drives (Power)

Cushman Electric Co. (Variable Speed Motor), Concord, N. H.
DODGE MFG. CO., Mishawaka, Ind. (See adv. index & branch offices, end of book)
FAWCUS MACHINE CO., 2820 Smallman, Pittsburgh, Pa. (See adv. index, end of book)
 Northern Electrical Mfg. Co. (Variable Speed Motors, Single Voltage), Madison, Wis.
 Roth Bros. & Co. (Electric), 27 S Clinton, Chicago, Ill.

Drives (Rope)

(See Rope Drives)

Drop Forgings

(See Forgings, Drop.)

Drug Store Fixtures

(See Store & Bar Fixtures)

***Drums (Car Heater)**

CHICAGO CAR HEATING CO., Railway Exchange bldg, Chicago, Ill., & 170 B'way, New York. (See adv. index, end of book)

Drums for Inclines

Helmick Foundry & Machine Co., Fairmont, W. Va.
 Niles Mine & Mill Supply Co., Citizens bldg, Cleveland, O., & Niles, O.
 Phillips Hine & Hill Supply Co., Pittsburg, Pa.

Drums (Gas)

(See Holders, Gas)

***Drums (Glycerine & Oil)**

SCAIFE, WM. B. & SONS CO., 221 1st av, Pittsburg, Pa. (See adv. index, end of book)

Drums (Hoisting)

(See also Hoisting Engines)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)
AMERICAN HOIST & DERRICK CO., St. Paul, Minn. (See adv. index & branch offices, end of book)

BYERS, JOHN F. MACHINE CO., Ravenna, O. (See adv. index, end of book)
CARLIN'S, THOS. SONS CO., 1300 River av, Allegheny, Pa. (See adv. index, end of book)

Contractors Plant Mfg. Co., 129 Erie, Buffalo, N. Y.

Crawford & McCrimmon Co., Brazil, Ind.
 Dederick's, P. K. Sons (Single & Double Drum), Albany, N. Y.

DOBBIE FOUNDRY & MACHINE CO., Main Office & Works, Niagara Falls, N. Y. (See adv. index & branch offices, end of book)
DODGE MFG. CO., Mishawaka, Ind. (See adv. index & branch offices, end of book)

FLORY, S. MFG. CO. (Double & Single Drum), Bangor, Pa. (See adv. index, end of book)

HAYWARD CO., THE ("Two in One"), 99 Cedar, New York. (See adv. index, end of book)

LAMBERT HOISTING ENGINE CO., Main Office & Works, 115-121 Poinier, Newark, N. J. (See adv. index & branch offices, end of book)

LIDGERWOOD MFG. CO. (Single & Double Drum), 96 Liberty, New York. (See adv. index & branch offices, end of book)

McKEOWN, H. J., 248 Butler, Cincinnati, O. (See adv. index, end of book)

MEAD-MORRISON MFG. CO. (Single & Double Drum), Cambridge (Boston), Mass., & 11 B'way, New York. (See adv. index, end of book)

MUNDY, J. S., 22 Prospect, Newark, N. J. (See adv. index & branch offices, end of book)

NATIONAL HOISTING ENGINE CO., Harrison, N. J. (See adv. index & branch offices, end of book)

Ottumwa Iron Works, Ottumwa, Ia.
 Poole Engineering & Machine Co., Woodberry Station, Baltimore, Md.
 South Baltimore Steel Car & Foundry Co., Baltimore, Md., & 66 Beaver, New York

Drums (Rope Driving)

DODGE MFG. CO., Mishawaka, Ind. (See adv. index & branch offices, end of book)
 Filer & Stowell Co., Home Office, Milwaukee, Wis.

Link Belt Co., W. 39th cor. Stewart av, Chicago, Ill., & Nicetown, Phila., Pa.
 Poole Engineering & Machine Co., Woodberry Station, Baltimore, Md.

Vulcan Iron Works, Wilkes-Barre, Pa.
 Woonsocket Machine & Press Co., Woonsocket, R. I.

Drums (Sand)

Cummer, F. D. & Son Co., Cleveland, O.

Drums (Seamless Pressed Steel)

PRESSED STEEL TANK CO. (Shipping), 720 Hanover, Milwaukee, Wis. (See adv. index, end of book)

WORCESTER PRESSED STEEL CO., Worcester, Mass. (See adv. index, end of book)

Drums (Steam or Mud)

East Jersey Pipe Co., 71 B'way, New York
 Erie City Iron Works, Erie, Pa.

KEWANEE BOILER CO., Kewanee, Ill., & 169 E. Lake, Chicago, Ill. (See adv. index, end of book)

Murray Iron Works Co., Burlington, Iowa.
PETROLEUM IRON WORKS CO., Washington, Pa., & Farmers' B'k bldg, Pittsburgh, Pa. (See adv. index, end of book)

Drums (Steel Shipping)

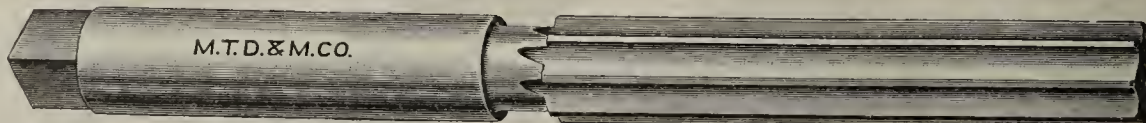
Ironclad Mfg. Co., 204 Varet, Brooklyn, N. Y.

Drums (Winding)

BONNOT COMPANY, Canton, O. (See adv. index, end of book)
DODGE MFG. CO., Mishawaka, Ind. (See adv. index & branch offices, end of book)

Leader Mfg. Co. (& Cable), Decatur, Ill.
 Michigan Brick & Tile Machine Co., Morenci, Mich.

✻ "MORSE" TOOLS ✻



Drills with Increase Twist

Drills with Parallel Web

Drills with Constant Angle

DRILLS OF HIGH SPEED STEEL our own Special Brand

Reamers, Chucks, Cutters, Taps, Dies, Arbors, Countersinks, Counterbores, Gauges, Mandrels, Metal Slitting Saws, Shell End Mills, Taper Pins, Screw Plates with Dies, Sockets, Sleeves, Tap Wrenches, Machines and Machinists' Tools.

MORSE TWIST DRILL & MACHINE CO., NEW BEDFORD, MASS., U. S. A.

Poole Engineering & Machine Co., Woodberry, Station, Baltimore, Md.
Potts, C. & A. & Co. (Inc.), Indianapolis, Ind.
South Baltimore Steel Car & Foundry Co., Baltimore, Md.
Steele, J. C. & Son, Statesville, N. C.
Union Foundry & Machine Co., Pittsburg, Pa.
Vulcan Iron Works, Wilkes-Barre, Pa.

Dry Clay Gatherer

Central Iron Works (For Brick & Tile Mfrs.), Quincy, Ill.

Dry Colors

(See Color Mfrs.)

Dry Docks (Steel, Floating)

Maryland Steel Co. (A Specialty), Baltimore, Md.

Dry Docks & Marine Railways

(See also Shipbuilders)

ALABAMA.

MOBILE—Ollinger-Bruce Dry Dock Co.

CALIFORNIA.

SAN FRANCISCO—Boole, W. A. & Son, 20 California
California Engineering & Construction Co., Rialto bldg
Hall Bros. Marine Railway & Shipbuilding Co., 202 California
San Francisco Dry Dock Co., 302 Calif.
South San Francisco Dock Co., Nevada blk
Union Iron Works, 220 Market.

CONNECTICUT.

BRIDGEPORT—Leeds, Edw. F., 175 E. Main
GILDERSLEEVE—Gildersleeve S. & Sons
NEW HAVEN—Graves, Geo. M.
Thatcher, Stephen
NEW LONDON—Davidson, W. H.
New London Marine Iron Works
NOANK—Palmer, Robt. & Son Ship Bldg. & Marine Railway Co.

DELAWARE.

WILMINGTON—American Car & Foundry Co
Harlan & Hollingsworth Corporation
Pusey & Jones Co. (Marine Railway)

FLORIDA.

JACKSONVILLE—Merrill-Stevens Co.

GEORGIA.

SAVANNAH—Dehoe's Iron Works
Rourke's Iron Works, 610 Bay

ILLINOIS.

CHICAGO—Chicago Shipbuilding Co. (Dry Docks), 101st & Calumet River
Shipowners' Dry Dock Co., No. Halsted st
bridge
MOUND CITY—Mound City Marine Railway & Dry Dock Co.

INDIANA.

JEFFERSONVILLE—Howard Ship Yards Co.

LOUISIANA.

BERWICK—Berwick Shipyard & Mfg. Co.
NEW ORLEANS—Good Intent Dry Dock Co.
McLellan Dry Dock Co., 727 Common
New Orleans Naval Dry Dock
Sectional Dry Dock, 315 Carondelet

MAINE.

BANGOR—Stetson, E. & I. K.
BATH—New England Co.
Sewall, Arthur & Co.
BELFAST—Merchants Marine Railway Co.
BOOTHBAY HARBOR—Boothbay Marine Ry. Co. (W. H. Reed, Propr.)
Townsend Marine Ry. (O. Y. Matthews, Propr.)

PORTLAND—Maine Electric Co., 25 Commercial
Portland Shipbuilding Co.
ROCKLAND—North Marine Railway
Snow, I. L. & Co.

MARYLAND.

BALTIMORE—Beacham, J. S. & Bro., Covington, ft. Warren av
Beacham, J. S. & Bro., Covington, ft. Warren av
Booz Bros., ft of E Montgomery ren av
Marine Railway Machine & Boiler Works, 1301 Philpot
Maryland Steel Co., Sparrows Point
Reeder, Oliver & Son, Hughes av & Covington
Skinner, Wm. & Sons, ft of E Cross
Spedden Shipbuilding Co., 913 B'way
Woodall, Wm. E. & Co., ft. Allen, Locust Point
SOLOMONS—Marsh, J. T.
Moore, Thos.
SPARROWS POINT—Maryland Steel Co. (Dry Dock & Marine Railway)
WHITEHAVEN—Catlin, W. J. & Bro.

MASSACHUSETTS.

BOSTON—Atlantic Works, 70 Border, E. B.
East Boston Dry Dock Co., 70 Border
Ellis, W. H., 17 Milk
Hayes, Geo. & Co., 166 Devonshire
Lawler Bros., 16 City sq, Chtn.
Lockwood Mfg. Co. (Marine Railway), 65 Summer, E. B.
Norton, F. A., 166 Devonshire
Rendle, W. S. & Co., 135 Prescott, E. B.
Ross, Jos. & Sons Co., 28 School
Simpson's Patent Dry Dock Co., Marginal
Tidd, L. R., 166 Devonshire n Jeffries
GLOUCESTER—Burnham Bros. (Railway)
Parkhurst, Chas. & Son (Railway)
Rocky Neck Marine Railway Co.
MARBLEHEAD—Frazier, J. H. (Railway)
TAUNTON—Taunton Construction Co.

MICHIGAN.

BAY CITY—Bay City Dry Dock (Jas. & Jas. E. Davidson)
CHARLEVOIX—Washburn, O. S. & Son
Candler Dock & Bridge Co., 26 Lafayette
DETROIT—Detroit Shipbuilding Co. boul
Dupuis, A. J. Co., Buhl blk
Great Lakes Engineering Works, Detroit, Mich.
Griffin, M. J., 104 Lafferty pl
HOUGHTON—Croze, Jos.
PORT HURON—Fitzgerald, J. H. & T. J.
WEST BAY CITY—Davidson, Jas. (Dry Docks Only)

MINNESOTA.

DULUTH—Duluth-Superior Dredging Co.
Grignon, Napoleon
Superior Shipbuilding Co.

NEW JERSEY.

CAMDEN—Dialogue, Jno. H. & Son
ELIZABETH—Moore, Samuel L. & Sons Corp.
HOBOKEN—Tietjen & Lang Dry Dock Co.
JERSEY CITY—Brown Dry Dock Co., ft Essex
Burt & Mitchell, ft Morris
Jersey City Dry Dock Co., ft Morgan
Miller, Alex. & Bro., ft of Morris
Rickard, C. N., 344 Arlington av
PERTH AMBOY—Perth Amboy Dry Dock Co.
Raritan Dry Dock Co.

NEW YORK.

ALBANY—Le Roux, Peter S.
BUFFALO—Buffalo Dry Dock Co., Buffalo Creek & Ganson
Empire Shipbuilding Co., ft Genesee
Riley's Dry Dock, ft Charles
GREENPORT—Greenport Basin Const'n Co.
KINGSTON—Balsden, Jno. J.
Hiltebrant, Conrad (S. Rondout)
NEWBURGH—Marvel, T. S. Shipbuilding Co. (Marine Railways)

NEW YORK CITY.

Borough of Brooklyn.

BROOKLYN—Atlantic Dock Co., 1 N Pier, Atlantic Dock
Crane's, Theo. A. Sons, Erie Basin
Downing & Lawrence, ft Court
Erie Basin Dry Dock, ft of Beard & Long
Gokey, Wm. & Son, Erie Basin Dock
Matheson, Wm., ft 20th
Morse Dry Dock & Repair Co., ft 57th

N. Y. Dock Co., Imlay c Bowne
Pelly Dry Dock Co. (Dry Docks), ft 26th, Brooklyn, N. Y.
Robins, Jno. N. Co., ft Dwight, Erie Basin
South Brooklyn Dry Dock Co., ft 32d
West End Dry Dock Co., ft 27th

Boroughs of Manhattan & Bronx

NEW YORK—Brooklyn Docks & Power Co., 88 Wall
Burlee Dry Dock Co., 1 B'way
Crane's, T. A. Sons Co., 26 B'way
Erie Basin Dry Docks, 19 Whitehall
Havana Dry Dock Co., 32 B'way
Hunter's Point Dry Dock Co., 1 B'way
McWilliams, Frank, 1 B'way
Morse Iron Works & Dry Dock Co., 17 State
Newport News Shipbuilding & Dry Dock Co., 1 B'way
Robins, Jno. N. & Co., 25 Whitehall
Shewan, Jas. & Sons, ft of Houtson
Simpson, J. E. & Co., 17 B'way
Starin, Jno. H., Pier 13 N R
Tietjen & Lang Dry Dock Co., A 12 Produce Exchange
Tregarthen, Jas. Son & Co., ft 7th, E R
Walsh, Jno. F., 136 Charlton

Borough of Queens.

LONG ISLAND CITY—McWilliams, C. & D. Ward & Co.

Borough of Richmond.

PORT RICHMOND—Burlee Dry Dock Co.
Starin, Jno. H.
MARINER HARBOR—Marine Construction & Dry Dock Co., ft Union av
WEST NEW BRIGHTON—McWilliams, Frank
McCarthy, John & Bro., ft Burger av
(END OF NEW YORK CITY)
OGDENSBURG—St. Lawrence Marine Railway Co.

NORTH CAROLINA.

WASHINGTON—Mutual Machine Co.
WILMINGTON—Skinner, Louis H.

OHIO.

ASHTABULA—Devney, H. J. & J. P.
Laird, J. G. & Sons
CINCINNATI—Queen City Marine Railway Co., Eastern av nr Waldron
CLEVELAND—American Shipbuilding Co., 2017 Superior av
Smith, L. P. & J. A. Co., Williamson bldg
TOLEDO—Chicago & Great Lakes Dredge & Dock Co.
Gilmore, A. Sons, ft McKinney
Toledo Marine Railway, Summit av nr Manhattan Mills

PENNSYLVANIA.

PHILADELPHIA—Cramp, Wm. & Sons Ship & Engine Building Co.
Neafle & Levy Ship & Engine Building Co., 1336 Beach

RHODE ISLAND.

EAST PROVIDENCE—Providence Dry Dock & Marine Railway
WICKFORD—Saunders, A. E.

SOUTH CAROLINA.

CHARLESTON—Pregnall, S. J., Concord, East
Riverside Iron Works End Hasell

TEXAS.

GALVESTON—Galveston Wharf Co.
International Creosoting & Construction Co.

VIRGINIA.

BERKLEY—Bott & Lewis
Colonna, Chas.
HAMPTON—Hall, Warren
NEWPORT NEWS—(See Shipbuilders)
NORFOLK—Core, W. T. & Son
Smith & McCoy
Taylor, Geo. T.
PORTSMOUTH—Portsmouth Marine Ry.
RICHMOND—(See Shipbuilders)
WESTPOINT—Wheeler & Denmead Bros.

WASHINGTON.

HADLOCK—Toby, N. D.
SEATTLE—Moran Bros. Co.
Puget Sound Bridge & Dredging Co.
Seattle Bridge Co.
United States Blow Pipe & Hydraulic W'ks
TACOMA—Puget Sound Dry Dock & Machine Co.

WISCONSIN.

MANITOWOC—Burger, H. B., Jr.
Manitowoc Dry Dock Co.
MILWAUKEE—Milwaukee Dry Dock Co.
SUPERIOR—Superior Shipbuilding Co.

Dry Kilns

(See Kilns, Drying)

Dry Pans

(See Pans, Dry)

Dryer & Calcining Apparatus

Cummer, F. D. & Son Co., The Arcade, Cleveland, O.
RUGGLES-COLES ENGINEERING CO., 39 Cortlandt, New York. (See adv. on following page)
UNITED STATES DRYING ENGINEERING CO., 66 Beaver, New York. (See adv. on following page)

Dryers (Air)

AMERICAN PROCESS CO. (Direct Steam Heated), 62 William, New York. (See adv. below)
INGERSOLL-RAND CO. (for Extracting Moisture from Air), 11 B'way, New York. (See adv. index & branch offices, end of book)
UNITED STATES DRYING ENGINEERING CO., 66 Beaver, New York. (See adv. on following page)

Dryers (Brick)

(See also Kilns, Dry)

AMERICAN CLAY MACHINERY CO., Bucyrus, O., & Willoughby, O.
AMERICAN PROCESS CO., 62 William, New York. (See adv. below)
Barrou Dryer Co. ("Chicago," "Iron Clad" & "Barron," Tender Clay), 225 Dearborn, Chicago, Ill.
Chambers Bros. Co., 52d, bel. Lancaster av, Phila., Pa.
Cummer, F. D. & Sons Co., 413 Arcade, Cleveland, O.
Hartford Blower Co., Hartford, Conn.
Means Foundry & Machine Co., Steubenville, O.
Mock, J. F., Hartford City, Ind.
Morrison, Trammell Brick Co., Rome, Ga.
NATIONAL BLOWER WORKS, 17th & St. Paul av, Milwaukee, Wis. (See adv. index, end of book)
Ohio Ceramic Engineering Co. (Hot Air), Cleveland, O.
Pratt Pressed & Firebrick Co., Van Meter, Ia.
Scott's Patent Brick Car Co., (Open Air System), Knoxville, Tenn.

Sharer Dryer & Kiln Co., 914 Walnut, Phila., Pa.
Sparta Brick & Tiling Co. (Open Air), Sparta, Mich.
Standard Dry Kiln Co., Indianapolis, Ind.
STANDARD SAND & MACHINE CO., 5151 St. Clair, Cleveland, O. (See adv. index, end of book)
UNITED STATES DRYING ENGINEERING CO., 66 Beaver, New York. (See adv. on following page)
Vose & Aregood Dryer Co., 78 Lasalle, Chicago, Ill.

Dryers (Cartridge Shell)

AMERICAN PROCESS CO., 62 William, New York. (See adv. below)
Rockwell Engineering Co. (Hot Air), 26 Cortlandt, New York

Dryers (Cement & Asphalt)

Abbe Engineering Co., 220 B'way, New York
ALLIS-CHALMERS CO. (Cement & Ore), Milwaukee, Wis. (See adv. index, end of book)
Alsing, J. R. & Co., 75 Guernsey, Brooklyn, N. Y.
American Blower Co., Detroit, Mich.
AMERICAN PROCESS CO., (Automatic), 62 William, New York. (See adv. below)
BARTLETT, C. O. & SNOW CO., French nr Columbus, Cleveland, O. (See adv. index, end of book)
BETHLEHEM FOUNDRY & MACHINE Co., Front, South Bethlehem, Pa. (See adv. index, end of book)
Cummer, F. D. & Son Co., The Arcade bldg, Emerick, Geo. S., Nazareth, Pa. Cleveland, O.
Nordyke & Marmon Co., Indianapolis, Ind.
RUGGLES-COLES ENGINEERING CO., 39 Cortlandt, New York. (See adv. on following page)
Smith, Theodore & Sons Co., ft of Essex, Jersey City, N. J.
STANDARD SAND & MACHINE CO., 5151 St. Clair, Cleveland, O. (See adv. index, end of book)
UNITED STATES DRYING ENGINEERING CO., 66 Beaver, New York. (See adv. on following page)
Variety Iron & Steel Works, Cleveland, O.
Vulcan Iron Works, Wilkes-Barre, Pa.

Dryers (Coal, Stone, Etc.)

AMERICAN PROCESS CO., 62 William, New York. (See adv. below)
REEVES BROS. CO., Alliance, O. (See adv. index, end of book)
RUGGLES-COLES ENGINEERING CO., 39 Cortlandt, New York. (See adv. on following page)
UNITED STATES DRYING ENGINEERING CO., 66 Beaver, New York. (See adv. on following page)

Dryers (Coffee)

AMERICAN PROCESS CO., 62 William, New York. (See adv. below)
Salem Iron Works (Hege), Winston-Salem, N. C.
UNITED STATES DRYING ENGINEERING CO., 66 Beaver, New York. (See adv. on following page)

Dryers (Fertilizer)

AMERICAN PROCESS CO., 62 William, New York. (See adv. below)
Anderson, V. D. Co. (1 to 3 Cylinder), Cleveland, O.
RUGGLES-COLES ENGINEERING CO., 39 Cortlandt, New York. (See adv. on following page)
UNITED STATES DRYING ENGINEERING CO., 66 Beaver, New York. (See adv. on following page)

Dryers for Concentrates

AMERICAN PROCESS CO., 62 William, New York. (See adv. below)
Cummer, F. D. & Son Co., Cleveland, O.
Power & Mining Machinery Co., 52 William, New York. Works, Cudahy, Wis.
RUGGLES-COLES ENGINEERING CO., 39 Cortlandt, New York. (See adv. on following page)
UNITED STATES DRYING ENGINEERING CO., 66 Beaver, New York. (See adv. on following page)

Dryers (Garbage)

AMERICAN PROCESS CO., 62 William, New York. (See adv. below)
Anderson, V. D. Co. (Also Tankage), Cleveland, Ohio
RUGGLES-COLES ENGINEERING CO., 39 Cortlandt, New York. (See adv. on following page)
UNITED STATES DRYING ENGINEERING CO., 66 Beaver, New York. (See adv. on following page)

Dryers (Grain & Malt)

AMERICAN PROCESS CO., 62 William, New York. (See adv. below)
BARTLETT, C. O. & SNOW CO., French nr Columbus, Cleveland, O. (See adv. index, end of book)
Cummer, F. D. & Son Co., Arcade bldg, Cleveland, O.
Hess Warming & Ventilating Co. (Pneumatic System), 131 La Salle, Chicago, Ill.
Louisville Drying Machinery Co., (Distillers & Brewers Dryers)
Mey Chain Belting Engineering Works (Brewery Grain), 34 Washington, Buffalo, N. Y.
Morris, F. R., Milwaukee, Wis.
Morris, Henry G., 333 Walnut, Phila., Pa.
NATIONAL BLOWER WORKS, 17th & St. Paul av, Milwaukee, Wis. (See adv. index, end of book)
Remmers, B. & Sons (also for Starch, Vegetables, Chemicals, etc.), Bourse bldg, Phila., Pa.
RUGGLES-COLES ENGINEERING CO., 39 Cortlandt, New York. (See adv. on following page)
Sturtevant, B. F. Co., Hyde Park, Mass.
UNITED STATES DRYING ENGINEERING CO., 66 Beaver, New York. (See adv. on following page)
Vogt, Henry Machine Co., Louisville, Ky.

Dryers (Hoof or Bone)

AMERICAN PROCESS CO., 62 William, New York. (See adv. below)
Anderson, V. D. Co., Cleveland, O.
Bigelow Co., New Haven, Conn.

== DRYERS ==

ALL KINDS FOR ALL MATERIAL

(ANIMAL, VEGETABLE AND MINERAL)

AMERICAN PROCESS COMPANY

62 and 64 WILLIAM STREET,

NEW YORK

RUGGLES-COLES DRYERS

FOR ALL MATERIALS WRITE US

RUGGLES-COLES ENGINEERING CO.

NEW YORK

CHICAGO

RUGGLES-COLES ENGINEERING CO.,
39 Cortlandt, New York. (See adv. above)
UNITED STATES DRYING ENGINEERING CO., 66 Beaver, New York. (See adv. below)

Dryers (Hot Roll for Veneer Lumber)

AMERICAN PROCESS CO., 62 William, New York. (See adv. on preceding page)
Flischer Machine Works, 710 Carroll av, Chicago, Ill.
Grand Rapids Veneer Works, Monadnock blk, Chicago, Ill.

RUGGLES-COLES ENGINEERING CO.,
39 Cortlandt, New York. (See adv. above)
UNITED STATES DRYING ENGINEERING CO., 66 Beaver, New York. (See adv. below)

Dryers (Jacketed Cylindrical)

AMERICAN PROCESS CO., 62 William, New York. (See adv. on preceding page)
Petty, J. K. & Co. (Lebanon Boiler Works), Lebanon, Pa. Works: Stephen Girard bldg, Phila., Pa.
UNITED STATES DRYING ENGINEERING CO., 66 Beaver, New York. (See adv. below)

Dryers (Leaf Tobacco)

AMERICAN PROCESS CO., 62 William, New York. (See adv. on preceding page)
Philadelphia Textile Machinery Co., Phila., Pa.

Dryers (Lumber)

American Blower Co., Detroit, Mich.
AMERICAN PROCESS CO., 62 William, New York. (See adv. on preceding page)
Sturtevant, B. F. Co., Hyde Park, Mass.
Turney Drier Co., Columbia bldg, Louisville, Ky.
UNITED STATES DRYING ENGINEERING CO., 66 Beaver, New York. (See adv. below)

Dryers (Meal)

AMERICAN PROCESS CO., 62 William, New York. (See adv. on preceding page)

Great Western Mfg. Co., Leavenworth, Kan.
Nordyke & Marmon Co. (Steam, etc.), Indianapolis, Ind.
Remmers, B. & Sons, Bourse bldg, Phila., Pa.
RUGGLES-COLES ENGINEERING CO.,
39 Cortlandt, New York. (See adv. above)
UNITED STATES DRYING ENGINEERING CO., 66 Beaver, New York. (See adv. below)

Dryers (Mold)

AMERICAN PROCESS CO., 62 William, New York. (See adv. on preceding page)
Tilghman-Brooksbank Sand Blast Co. (Portable for Foundry Use), 1126 S 11th, Phila., Pa.

Dryers (Ore)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index, end of book)
AMERICAN PROCESS CO., 62 William, New York. (See adv. on preceding page)
Cummer, F. D. & Son Co., Arcade, Cleveland, O.
Denver Engineering Works Co., Denver, Colo.
Hendy, Joshua, Machine Works, 38 Fremont, San Francisco, Cal.
Mine & Smelter Supply Co., Denver, Colo.
Power & Mining Machinery Co., 52 William, New York. Works, Cudahy, Wis.
RUGGLES-COLES ENGINEERING CO.,
39 Cortlandt, New York. (See adv. above)
Union Iron Works, 222 Market, San Francisco, Cal.
UNITED STATES DRYING ENGINEERING CO., 66 Beaver, New York. (See adv. below)

Dryers (Pebble)

AMERICAN PROCESS CO., 62 William, New York. (See adv. on preceding page)
Littleford Bros., 453 E Pearl, Cincinnati, O.
RUGGLES-COLES ENGINEERING CO.,
39 Cortlandt, New York. (See adv. above)
UNITED STATES DRYING ENGINEERING CO., 66 Beaver, New York. (See adv. below)

Dryers (Revolving)

AMERICAN PROCESS CO., 62 William, New York. (See adv. on preceding page)
Stauffer, Geo. E., East Stroudsburg, Pa.
UNITED STATES DRYING ENGINEERING CO., 66 Beaver, New York. (See adv. below)

Dryers (Rotary)

AMERICAN PROCESS CO. (Direct Head Blast), 62 William, New York. (See adv. on preceding page)
Hersey Mfg. Co., 314 W 2d, Boston, Mass.
RUGGLES-COLES ENGINEERING CO.,
39 Cortlandt, New York. (See adv. above)
UNITED STATES DRYING ENGINEERING CO., 66 Beaver, New York. (See adv. below)

Dryers (Salt Well)

AMERICAN PROCESS CO., 62 William, New York. (See adv. on preceding page)
RUGGLES-COLES ENGINEERING CO.,
39 Cortlandt, New York. (See adv. above)
UNITED STATES DRYING ENGINEERING CO., 66 Beaver, New York. (See adv. below)
WARSAW ELEVATOR CO., Warsaw, N. Y. & Erie Co. Bank bldg, Buffalo, N. Y.
(See adv. index & branch offices, end of book)

Dryers (Sand)

(See Sand & Gravel Heaters & Dryers.)

Dryers (Soap)

American Blower Co., Detroit, Mich.
AMERICAN PROCESS CO., 62 William, New York. (See adv. on preceding page)
Sturtevant, B. F. Co., Hyde Park, Mass.
UNITED STATES DRYING ENGINEERING CO., 66 Beaver, New York. (See adv. below)

Dryers (Textile)

(See Textile Machinery, etc., in letter T.)

Dryers (Tobacco)

AMERICAN PROCESS CO., 62 William, New York. (See adv. on preceding page)
UNITED STATES DRYING ENGINEERING CO., 66 Beaver, New York. (See adv. below)



DRYERS
OF EVERY TYPE
CONSTRUCTED FOR ALL PURPOSES.
AGENTS FOR BISHOP WATER JACKETED FURNACE FRONTS
UNITED STATES DRYING ENGINEERING CO.
66-70 BEAVER ST., NEW YORK, U.S.A.

***Dryers (Vacuum)**

AITON MACHINE CO., 126 Liberty,
New York. Works: Harrison, N. J. (See
adv. index, end of book)
AMERICAN PROCESS CO., 62 Wil-
liam, New York. (See adv. index, end of
book)
Devine, J. P. Co. ("Emil Passburg" System,
Drying & Impregnating Apparatus), Buf-
falo, N. Y.
Hubbard's, Norman, Sons. (Drying & Im-
pregnating Apparatus), 265 Water, Brook-
lyn, N. Y.
KOVEN, L. O. & BRO., 50 Chit, New
York. (See adv. index, end of book)

Drying Frames

(See Clothes Dryers of Various Kinds)

Drying Rooms(See Clothes Dryers, Steam, Hot Water, Hot
Air & Gas.)**Dumb Bells (Wood)**

Piqua Handle & Mfg. Co., Piqua, O.
Sommer's, Jno. Son, 355 Central av, Newark,
N. J.

Dumb Bells & Quoits

Areade Mfg. Co. (Japanned Quoits), Freeport,
Barber Mfg. Co., Ashtabula, O.
CANTON FOUNDRY & MACHINE CO.
(Dumb Bells Only), Canton, O. (See adv.
index, end of book)
Hellenberg & Son (Wood Dumb Bells Only),
Coldwater, Mich.
Kupferle, Jno. C., 2d & Mound, St. Louis, Mo.
NARRAGANSETT MACHINE CO.,
(Dumb Bells of All Kinds), Providence, R.
I. (See adv. index, end of book)
National Novelty Corporation, 826 B'way, New
York
NATIONAL SUPPLY CO. (Quoits), 7
W Lombard, Baltimore, Md. (See adv.
index, end of book)
Pleuger & Henger Mfg. Co., 11th & Hebert, St
Louis, Mo.
Reading Hardware Co., Reading, Pa.
Swett, A. L., Iron Works, Medina, N. Y.
Weller Hdw. & Foundry Co., Horseheads N. Y.
Wrightsville Hardware Co., Wrightsville, Pa.

Dumb Waiter Doors (Automatic)

MORSE, WILLIAMS & CO., West End
Trust bldg, Phila., Pa. (See adv. index,
end of book)
Webb, J. R., 414 Bleecker, New York

Dumb Waiter Doors (Fireproof)

DAHLSTROM METALLIC DOOR CO.,
Jamestown, N. Y., & 299 B'way, New York.
(See adv. index, end of book)
RAPP, JNO. W., General Office &
Works, College Point, New York; Sales
Rooms, 4 Madison av, New York. (See adv.
index, end of book)

***Dumb Waiter Rope**

(See also Cordage & Twine Mfrs.)

CARPENTER, GEO. B. & CO., 202
S Water, Chicago, Ill. (See adv. index,
end of book)
SILVER LAKE CO. (Braided), 78
Chauncy, Boston, Mass. (See adv. index,
end of book)

**Dumb Waiters
CALIFORNIA.**

SAN FRANCISCO—Cahill & Hall Elevator Co.
McNicol, A. J. Elevator Co., 207 2d
OTIS ELEVATOR CO., 511 Howard.
(See adv. index, end of book)
Pettitt, J. G., 33 Beale

COLORADO.**DENVER—McCarthy, M. J. & Co., 1134 Lar-**
mer**CONNECTICUT.****NEW HAVEN—MacKenzie, Geo. M., Water e**
East**GEORGIA.**

ATLANTA—MORSE, WILLIAMS & CO.
(Dept. of Otis Elevator Co.), 58 S. Broad.
(See adv. index, end of book)
OTIS ELEVATOR CO., Empire
bldg. (See adv. index, end of book)

ILLINOIS.

CHICAGO—Burdett-Rowntree Mfg. Co., 85 W
Jackson boul
Gibbs, Chas. & Co., 395 W Lake
Munger, Chas. L., 142 Lake
OTIS ELEVATOR CO., 159 La
Salle. (See adv. index, end of book)
REEDY, J. W. ELEVATOR MFG.
Co., 91 Illinois. (See adv. index, end of
book)
Swezey Dumb Waiter Co., 108 E 20th
Union Elevator & Machine Co., 144 Ontario
MOLINE—Moline Elevator Co.

IOWA.**COUNCIL BLUFFS—Kimball Bros. Co.****MARYLAND.**

BALTIMORE—Bates', James, Sons, Pratt e
President
MORSE, WILLIAMS & CO. (Dept.
of Otis Elevator Co.), 19 Pearl. (See
adv. index, end of book)
OTIS ELEVATOR CO., Continent-
al Trust bldg. (See adv. index, end of book)

MASSACHUSETTS.

BOSTON—Beckwith Elevator Co., 123 Pearl
Boston Elevator Gate Co., 100 Purchase
Brewer, Elias & Co., 52 Sudbury
MORSE, WILLIAMS & CO. (Dept.
of Otis Elevator Co.), 19 Pearl. (See
adv. index, end of book)
Perry, Wm. J., 463a Atlantic av
Kimball, C. E. & Son, 151 Pearl
SALEM—SALEM ELEVATOR WORKS.
(See adv. index, end of book)
SPRINGFIELD—SPRINGFIELD ELE-
vator & Pump Co. (Power & Hand). (See
adv. index, end of book)

MICHIGAN.

DETROIT—O'Connell, H. P., 15 Barclay pl
OTIS ELEVATOR CO., Penobscot
bldg. (See adv. index, end of book)

MINNESOTA.

MINNEAPOLIS—Craig, W. H. & Co., 541 6th
av, S
LAGERQUIST, GUST, 516 N 3d
(See adv. index, end of book)
ST. PAUL—Franklin Machine Works, 2208
W University av
Lee & Hoff Mfg. Co., 81 E Fillmore av

MISSOURI.

KANSAS CITY—Moline Elevator Co., American
Bk. bldg
ST. LOUIS—Miller, Wm. A., Elevator Mfr.
Co., 117 Pine
OTIS ELEVATOR CO., Security
bldg. (See adv. index, end of book)

NEW JERSEY.

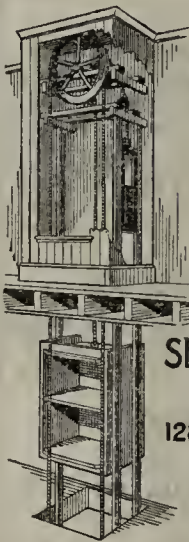
NEWARK—STORM MFG. CO. (See adv.
following page)
Webber, G. A., 184 Penna av.

NEW YORK.

ALBANY—Gick & Sayles, 266 Hudson av
BROOKLYN—(See New York City. Borough of
Brooklyn)
BUFFALO—WARSAW ELEVATOR CO.
(Steel Roller Bearings), Erie Co. Bank bldg.
(See adv. index, end of book)

NEW YORK CITY.**Borough of Brooklyn.**

BROOKLYN—Bergquist, Jacobson & Co., 258
Rodgers, R. M. & Co., 133 Hall 3d av
Seaberg, Gustav, 407 Douglas

**DUMB WAITERS
AND
HAND ELEVATORS****OF THE MOST IMPROVED
AUTOMATIC CONSTRUCTION****INVALID LIFTS
TRUNK, CARRIAGE,
SIDEWALK AND
FREIGHT ELEVATORS****SEDGWICK MACHINE WORKS****POUGHKEEPSIE, N. Y.****AND
128 LIBERTY ST. NEW YORK****CATALOGS AND
ESTIMATES FURNISHED**

J. G. SPEIDEL, Cor. Buttonwood and Gordon Sts., Reading, Pa.
MANUFACTURER OF SPEIDEL'S PATENT

**DUMBWAITERS, ELEVATORS
and CELLAR HOISTS,****Portable Chain Hoists, Overhead Tramway and Hand-power Travelling Cranes**

All of the Highest Efficiency, Simplicity and Durability.

GUARANTEED TO GIVE SATISFACTION.

Catalog Mailed Free.

Boroughs of Manhattan & Bronx

NEW YORK—Bergman Mfg. Co., 304 W. 127th
 Burdett-Rowntree Mfg. Co., 147 W. 26th
 Burwak Elevator Co., 216 Fulton
 De Witt, O. W. Co., 256 W. 81st
 Dowdall, Chas. E., 152 W B'way
 Gordon Bros., 176 Wooster
 Hoffman, Chas. W Co., 223 W. 28th
 Holland, Thos. J., 211 E 84th
 Larsen, Anton & Co., 442 E 149th
 Moline Elevator Co., 442 W B'way
MORSE, WILLIAMS & CO. (Dept.
 of Otis Elevator Co.), 108 Liberty. (See
 adv. index, end of book)
 Murtaugh, Jas. Co. (Standard), 202 E 42d
 Nelson, Alex. & Co., 103 W 95th
OTIS ELEVATOR CO., 17 Battery
 pl. (See adv. index, end of book)
 Roberts, Jas. H., 430 W B'way
 Rouquette & Co., 47 Warren
SEDGWICK MACHINE WORKS
 (Automatic & Band Brake, Brass Tube,
 Simplex, etc.), 128 Liberty. (See adv.
 index, end of book)
 See, A. B. Electric Elevator Co., 220 B'way
 Still, S. G., 1486 Milford pl
STORM MFG. CO., 113 Chambers
 (See adv. below)
 Williams, W. & Co., 312 E 95th
(END OF NEW YORK CITY)

POUGHKEEPSIE—SEDGWICK MACHINE
 Works (Automatic & Band Brake, Brass
 Tube, Simplex, etc.) (See adv. index, end
 of book)

ROCHESTER—Kay, J. R. & S. P., Mill ft. of
 Brown
 Kay, J. R. & S. P., Mill ft. of Brown
OTIS ELEVATOR CO., 198 Com-
 mercial. (See adv. index, end of book)
SYRACUSE—Houser Elevator Co., 314 E Water
WARSAW—WARSAW ELEVATOR CO.
 (Steel Roller Bearings). (See adv. index,
 end of book)

OHIO.

CINCINNATI—Curran, Jas. H. Elevator Co.,
 114 W. 2d

OTIS ELEVATOR CO., Mercantile
 Library Bldg. (See adv. index, end of
 book)

REEDY, H. J. CO., (Push Button,
 Electric & Hand), 11 W. 2d. (See adv.
 index, end of book)

WARNER ELEVATOR MFG. CO.
 (See adv. index, end of book)

CLEVELAND—Edmonds Elevator Co., 144
 Champlain

OTIS ELEVATOR CO., Cuyahoga
 Bldg. (See adv. index, end of book)

COLUMBUS—Columbus Elevator & Machine Co.,
 Curtis & Jefferson avs

Morris, C. E., & Co., 3d & Naghton
TOLEDO—Haughton Elevator & Machine Co.
 Universal Machine Co.

PENNSYLVANIA.

LANCASTER—Welchans, A. C., 202 W James
PHILADELPHIA—Albro-Clem Elevator Co.,
 7th & Glenwood av

Energy Elevator Co., 411 Cherry
MORSE, WILLIAMS & CO., (Dept.
 of Otis Elevator Co.), 32 S. Broad. (See
 adv. index, end of book)

O'Neill Elevator Co., 628 Cherry.

OTIS ELEVATOR CO., 1228 Race
 (See adv. index, end of book)

Standard Elevator Co., 3107 Chestnut
 U. S. Elevator Co., 216 Dock.

PITTSBURG—Marshall Bros., S 21st
MORSE, WILLIAMS & CO., (Dept.
 of Otis Elevator Co.), 1016 Penn av. (See
 adv. index, end of book)

OTIS ELEVATOR CO., 1016 Penn
 av. (See adv. index, end of book)

Union Elevator Co., 30 Gist

READING—SPEIDEL, J. G., cor Button-
 wood & Gordon. (See adv. on preceding
 page)

WISCONSIN.

MILWAUKEE—BRODESSER ELEVATOR
 Mfg. Co. (See adv. index, end of book)

KIECKHEFER, A. ELEVATOR
 Co., 1026 St. Paul av. (See adv. index,
 end of book)

Dumb Waiters (Electric)

Burdett-Rowntree Mfg. Co. (Automatic), 85 W
 Jackson boul, Chicago, Ill., & 147 W. 26th st.
 New York

Columbus Elevator & Machine Co., Curtis &
 Jefferson avs., Columbus, O.

MARINE ENGINE & MACHINE CO.,
 Main Office, 126 Liberty, New York; Works,
 Harrison, N. J. (See adv. index, end of
 book)

OTIS ELEVATOR CO., 17 Battery pl.,
 New York. (See adv. index & branch offices,
 end of book)

STORM MFG. CO., Newark, N. J. (See
 adv. below)

Dumb Waiters (Pneumatic)

Curtis & Co. Mfg. Co., St. Louis, Mo.

Dumb Waiters (Self-Sustaining)

Columbus Elevator & Machine Co., Curtis &
 Jefferson avs., Columbus, O.

SPEIDEL, J. G., Buttonwood & Gor-
 don, Reading, Pa. (See adv. on preceding
 page)

SEDGWICK MACHINE WORKS,
 Poughkeepsie, N. Y., & 128 Liberty, New
 York. (See adv. index, end of book)

STORM MFG. CO., Newark, N. J.
 (See adv. below)

WARSAW ELEVATOR CO., Warsaw,
 N. Y. (See adv. index, end of book)

Dumb Waiters (Steel)

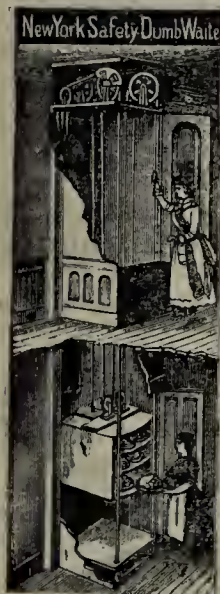
STORM MFG. CO., Newark, N. J. (See
 adv. below)

Dump Cars

(See Cars, Dump)

Dump Wagons

(See Wagons, Self-Dumping)

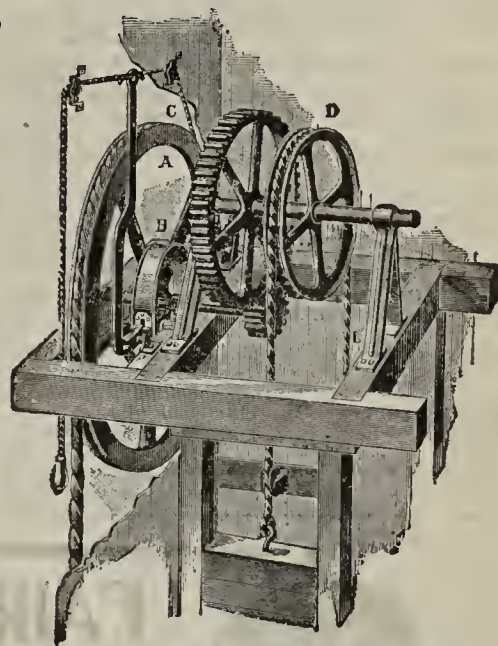


PATENTED.

The New York Safety.
 The Improved Humphrey.
 The Manhattan Dumb Waiter.
 Invalid Lifts.
 Carriage Elevators, Etc.

**THE LARGEST MANUFACTURERS
IN THE WORLD OF****Dumb Waiters and Hand Power
and Sidewalk Elevators.**

Also Manufacturers of

Paragon Self-Retaining Dumb Waiters.**THE STORM MANUFACTURING COMPANY,
NEWARK, N. J.**

Many Thousands of Our Machines in Use All Over the World.

ILLUSTRATED CATALOGUE ON APPLICATION.

NEW YORK OFFICE, No. 113 Chambers St.

LONDON OFFICE, 118 Holborn St., E. C.

Dumping Apparatus (Coal Mine)

Christman Co., Massillon, O.

Dumps (Automatic, Cross-Over)

Phillips Mine & Mill Supply Co. ("Phillips"),
Pittsburg, Pa.
SULLIVAN MACHINERY CO., Rail-
way Exchange bldg. Chicago, Ill. (See adv.
index & branch offices, end of book)

***Duplicating Tracing & Draw-
ings****SOLTMANN, E. G.**

(Also everything for the Architect, En-
gineer & Draughting Room), 125 E 42d, New
York. (See adv. index, end of book)

***Duplicators**

(For the reproduction of manuscripts, plans,
etc.)

American Multigraph Co. ("Gammeter Multi-
graph") Case av & Kelley, Cleveland, Ohio.
Beck Duplicator Co. (The "Enreka" & "Ideal"),
72 Beaver, New York

SOLTMANN, E. G.

(Also everything for the Architect, En-
gineer & Draughting Room), 125 E 42d, New
York. (See adv. index, end of book)

***Dust Absorbers (Vacuum Sys-
tem)**

GENERAL COMPRESSED AIR &
Vacuum Machinery Co., 4469 Olive, St.
Louis, Mo. (See adv. index, end of book)
VACUUM CLEANER CO., 427 5th av.,
New York. (See adv. index, end of book)

Dust Collectors (Mechanical)

Allington & Curtis Mfg. Co., Saginaw, E. S.,
American Blower Co., Detroit, Mich.
Banister, A. W. (Separators), 35 Wareham,
Boston, Mass.
Barnard & Leas Mfg. Co., (Rotary Pneumatic),
Moline, Ill.
Bowman, Walker (Plans & Specifications for
Flint, Coal, Paint, Cement, etc.), 39
Cortlandt, New York
Buffalo Forge Co., Buffalo, N. Y. & 39 Cort-
landt, New York
Central Iron Works, Quincy, Ill.
Charlton, Jno. ("Apex"), Haddonfield, N. J.
Cincinnati Exhaust & Blow Pipe Co., 324 W.
3d, Cincinnati, O.
Clark, T. F., Co., Seattle, Wash.
Dixie Mfg. Co., ("Cyclone"), Baltimore, Md.
Flour Mill Machinery Co. ("Challenge"), Battle
Creek, Mich.
Garden City Fan Co., Fisher Bldg., Chicago, Ill.
Grand Rapids Blow Pipe & Dust Arrester Co.
("Up-to-date"), Grand Rapids, Mich.
Hartford Blower Co., Hartford Conn.
Hygienic Floor Machine Co. ("Portable"), 88
Wall, Utica, N. Y.
Knickerbocker Co. ("Cyclone," "New Cyclone"),
535 Liberty, Jackson, Mich.

Lee Thos. (also Furnace Feeders), 130 W 2d,
Cincinnati, O.
Mannen & Esterly Co., 2247 St. Clair, Cleve-
land, O.
Meadon's, T. J. Sons, 51 Greenpoint av, Brook-
lyn, N. Y.
NATIONAL BLOWER WORKS, Mil-
waukee, Wis. (See adv. index, end of
book)
Nordyke & Marmon Co., Indianapolis, Ind.
Ohio Blower Co. (also Furnace Feeders), 43
Michigan, Cleveland, O.
Porbeck Bros. Mfg. Co., St. Louis, Mo.
Prinz & Rau Mfg. Co. (The Perfection), Mil-
waukee, Wis.
Richmond City Mill Works, Richmond, Ind.
Sterling Blower & Pipe Mfg. Co., Hartford,
Conn.
United States Blowpipe & Hydraulic Works,
Pacific blk. Seattle, Wash.

Dust Guards (Hard Fibre)

(See Fibre Mfrs., Hard)

Dust Guards (Journal Box)

Franklin Mfg. Co. (Asbestos), Franklin, Pa.
Harrison Dust Guard Co., Toledo, O.
McCord & Co., Old Colony Bldg., Chicago, Ill.
Railway Appliances Co. (Symington), Old
Colony bldg., Chicago, Ill.
Republic Railway Appliance Co., 104 S Com-
mercial, St. Louis, Mo.
Sonle Raw Hide Lined Dust Guard Co., 113
Devonshire, Boston, Mass.
Symington, T. H., Co. ("Symington"), Balti-
more, Md.

***Duster Manufacturers**

OSBORN MFG. CO. (Wire, Fibre,
Bristle, etc.), 5401 Hamilton av, N E,
Cleveland, O. (See adv. index, end of
book)

Dye Wood Extracts

Stamford Mfg. Co. (Logwood, etc.), 82 Wall,
New York. Factory: Stamford, Conn.

Dynamite Mfrs.

Aetna Powder Co., 143 Dearborn, Chicago, Ill.
Alford, Mrs. B., Eldred, Pa.
Athony Powder Co., Ishpeming, Mich.
Dittmar Powder Works, 102 W 130th, New York
Dupont, E. I., De Nemours Powder Co., Wil-
mington, Del., & 90 West, New York
King Powder Co., First National Bank bldg.,
Cincinnati, O.
Masurite Explosive Co. ("Masurite" for Foun-
dations, etc.), 50 B'way, New York
National Powder Co., 353 5th av, New York
New York Powder Co., 55 Liberty, New York
Rockdale Powder Co., York, Pa.

**Dynamo Igniters for Gas & Gas-
oline Engines**

(See Igniters, Gas & Gasoline Engines)

***Dynamo Oil Cups**

CROSBY STEAM GAGE & VALVE CO.,
97 Oliver, Boston, Mass. (See adv. Index &
branch offices, end of book)

Dynamo & Motor Mfrs.(See also Generators, Various Kinds; also
Motors, Various Kinds)**CALIFORNIA.**

SAN FRANCISCO—California Electrical Works,
FAIRBANKS, MORSE & CO., 310
Market. (See adv. below)
SPRAGUE ELECTRIC CO., Atlas
bldg. (See adv. index, end of book)
Standard Electrical Construction Co., 130
New Montgomery
Union Iron Works, 222 Market

COLORADO.

DENVER—**FAIRBANKS, MORSE & CO.**
(See adv. below)

CONNECTICUT.

BRIDGEPORT—Bridgeport Machine & Motor
Co.

DELAWARE.

WILMINGTON—Morris Electric Co. (Small Dy-
namos), 315 Shipley

GEORGIA.

ATLANTA—Campbell Electric Co.
AUGUSTA—Moore-Edenfield Electric & Mfg. Co.

ILLINOIS.

CHICAGO—**FAIRBANKS, MORSE & CO.,**
Franklin & Monroe. (See adv. below)
Goodman Mfg. Co., S. Halsted & 48th pl
Gregory Electric Co., 54 S. Clinton
Guarantee Electric Co., 153 S. Clinton
Morgan-Gardner Electric Co., 2642 Shields av
National Stamping & Electric Works, Clin-
ton & Adams
Peerless Electric Co., 122 S. Green
Roth Bros. & Co., 27 S. Clinton
SPRAGUE ELECTRIC CO., Fisher
bldg. (See adv. index, end of book)
Western Electric Co., 259 S. Clinton
PEORIA—Eagle Electric Works
QUINCY—Central Iron Works (Motors)

INDIANA.

FORT WAYNE—Fort Wayne Electric Works
(Inc.)
INDIANAPOLIS—**FAIRBANKS, MORSE &**
Co. (See adv. below)
Jenney Electric Mfg. Co.
SOUTH BEND—Knoblock-Heideman Mfg. Co.
TERRE HAUTE—Kester Electric Co. (Motors)

KENTUCKY.

LOUISVILLE—American Machine Co.
FAIRBANKS, MORSE & CO. (See
adv. below)
Clark, Jas. Jr. & Co., 315 W Main
OWENSBORO—Kentucky Electrical Co., Inc.

**FAIRBANKS, MORSE & CO.**

MANUFACTURERS OF

ALTERNATING CURRENT MOTORS

DIRECT CURRENT MOTORS

DIRECT CURRENT DYNAMOS

STANDARD OR SPECIAL DESIGNS

Send for Catalog No. 445 D M

12 DEY ST., NEW YORK, N. Y.

CHICAGO, ILL.

LONDON, ENG.



MAINE.

PORTLAND—Malne Electric Co.

MARYLAND.BALTIMORE—SPRAGUE ELECTRIC CO.,
American bldg. (See adv. index, end of book)**MASSACHUSETTS.**BOSTON—SPRAGUE ELECTRIC CO.,
Weld Bldg. (See adv. index, end of book)
Sturtevant, B. F. Co., 34 Oliver
BROOKLINE—Holtzer-Cabot Electric Co.
HYDE PARK—Sturtevant, B. F. Co.
LOWELL—New England Motor Co.
LYNN—Littlefield, H. A. & Co.
WORCESTER—Page Electric Co., 24 Pearl.**MICHIGAN.**DETROIT—FAIRBANKS, MORSE & CO.,
89 Jefferson. (See adv. preceding page)
Fisher Electrical Works, 183 Larned
Rumsey Electric Co., 19 Bagley av
THREE RIVERS—Sheffield Car Co.**MINNESOTA.**MINNEAPOLIS—FAIRBANKS, MORSE &
Co., 220 Nicollet av. (See adv. preceding
page)**MISSOURI.**JEFFERSON CITY—Star Dynamo Co.
ST. LOUIS—FAIRBANKS, MORSE &
Co., 8th & Clarke av. (See adv. on pre-
ceding page)
Snider Electric Co., 1628 S B'way
SPRAGUE ELECTRIC CO., Chem-
ical bldg. (See adv. index, end of book)
Wagner Electric Mfg. Co., 2015 Locust**NEW JERSEY.**AMPERE—Crocker-Wheeler Co.
BELLEVILLE—Eck Dynamo & Motor Works
(Enclosed & Semi-Enclosed)
BOUND BROOK—American Engine Co.
ELIZABETHPORT—Diehl Mfg. Co.**NEW YORK.**BINGHAMTON—G. & E. Electric Construction
BUFFALO—Averill, F. E., 444 Niagara Co.
Buffalo Engine Works, 62 Indiana
ELBRIDGE—Elbridge Electrical Mfg. Co.
(Small)
HORNELLVILLE—Bartz, Wygant & Brown
NEWBURGH—Hyer-Sheehan Electric Motor Co.
NEW YORK—American Engine Co., 95 Liberty
Ball Electric Co. (Arc Dynamos, etc.), 1170
B'wayBell Electric Motor Co., 197 Wooster
Bogue, Chas. J., Electric Co., 213 Centre
C. & O. Electric Co., 149 B'way
Conn. Dynamo & Motor Co., 516 W 25th
Crocker-Wheeler Co., 39 Cortlandt
Diehl Mfg. Co., 561 B'way
Electro-Dynamic Co., 5 NassauFAIRBANKS, MORSE & CO., 133
Liberty. (See adv. on preceding page)
GENERAL ELECTRIC CO., 44
Broad. (See adv. index, end of book)
La Roche, F. A., Co., 652 HudsonOTIS ELEVATOR CO., 17 Battery
pl. (See adv. index, end of book)
SPRAGUE ELECTRIC CO., 527 W
34th. (See adv. index, end of book)
Western Electric Co., 57 BethuneROCHESTER—Almstead Electric Co., 48 N
Clinton avOTIS ELEVATOR CO., 198 Com-
mercial. (See adv. index, end of book)

ROCHESTER Electric Motor Co.

SCHENECTADY—GENERAL ELECTRIC
Co. (See adv. index, end of book)SYRACUSE—Cornwell, R. M. Co. (Inc.) ("Won-
der")
Gough, W. H., 438 S Salina
Rogers & Hilton, 210 Walton

TROY—Bernard, E. G. Co.

YONKERS—Eickemeyer & Osterheld Mfg. Co.

OTIS ELEVATOR O. (See adv. in-
dex, end of book)**OHIO.**AKRON—Akron Electrical Mfg. Co.
CANTON—Goughnour Electric Co.
CINCINNATI—Barrlett Electric Co. (Motors;
¼ to 15 h. p.)Carlisle & Finch Co., 229 E Clifton av
FAIRBANKS, MORSE & CO., 307
Walnut. (See adv. preceding page)
Jantz & Leist Electric Co. Multipolar, etc.),
OTIS ELEVATOR CO., Mercantile
Library bldg. (See adv. index, end of book)
Stewart Electrical Co., 311 E 5th
Triumph Electric Co., 610 BaymillerCLEVELAND—Elwell-Parker Electric Co., 1066
HamiltonFAIRBANKS, MORSE & CO., 99
Water. (See adv. preceding page)

Lincoln Electric Co., 49 Wood

OTIS ELEVATOR CO., Cuyahoga
bldg. (See adv. index, end of book)

Van Dorn-Elliott Electric Co., Cleveland, O.

DAYTON—Dayton Electrical Mfg. Co. ("Apple"
up to ½ H. P.)Dayton Fan & Motor Co.
Sterling Electric Motor Co.MANSFIELD—Ideal Electric Mfg. Co. (Direct
Connected Units, Open & Enclosed)PHOENIX ELECTRIC COMPANY.
(See adv. index, end of book)

SANDUSKY—Warren Electric Mfg. Co.

SPRINGFIELD—Robbins & Myers Co. ("Stand-
ard" Direct Current Piano Motor)WARREN—Peerless Electric Co.
Warren Electric & Specialty Co.**PENNSYLVANIA.**ERIE—Burke Electric Co.
Erle City Iron WorksPHILADELPHIA—Dienelt & Eisenhardt, 1304 N
Kinetic Electric Co., 16 S Schell, HowardOTIS ELEVATOR CO., 1228 Race.
(See adv. index, end of book)

Swope, Henry R., 120 N 7th

PITTSBURG—Pittsburg Electrical & Machine
Works, 3 Barker plSPRAGUE ELECTRIC CO., House
bldg. (See adv. index, end of book)WESTINGHOUSE ELECTRIC &
Mfg. Co. (See adv. index, end of book)

RIDGWAY—Ridgway Dynamo & Engine Co.

VIRGINIA.RICHMOND—Richmond Electric Co.
Tower-Binford Electric & Mfg. Co., 715 F
Main**WASHINGTON.**SEATTLE—Erickson-Wyman Co.
Kilbourne & Clark Co.
N. & S. Electric Co.**WEST VIRGINIA.**

WHEELING—Mutual Electric & Machine Co.

WISCONSIN.

LA CROSSE—Benton, Thos. P. & Son

MADISON—Northern Electrical Mfg. Co.

MILWAUKEE—ALLIS-CHALMERS CO.
(See adv. index, end of book)

Andrae, Julius & Sons Co. (Small)

Keelyn Electric Co., 135 Sycamore

Mechanical Appliance Co. ("Watson" Multi-
polar Motors & Generators), 710 Hanover

National Electric Co.

Northwestern Mfg. Co. ("Browning," up to
75 H. P.)**Dynamometers**Elwell-Parker Electric Co., 1066 Hamilton.
Cleveland, O.QUEEN & CO. (Inc.), n. w. c 8th &
Arch, Philadelphia, Pa. (See adv. index,
end of book)SCHAEFFER & BUDENBERG MFG.
Co. ("Gidding's" Traction Recording, etc.).Foxboro, Mass. (See adv. index & branch
offices, end of book)SPRAGUE ELECTRIC CO. (Round
Type), 527 W 34th, New York. (See adv.
index, end of book)

Sterling Electric Motor Co., Dayton, O.

Whitney Electrical Instrument Co., Penacook,
N. H.**Dynamos (Electro Plating)**

Akron Electric Mfg. Co., Akron, O.

Averill, Frank E., 444 Niagara, Buffalo, N. Y.

Bell Electric Motor Co., 144 Prince, New York

Bogue, Chas. J., 209 Centre, New York

Commercial Electric Co., Indianapolis, Ind.

Connecticut Dynamo & Motor Co., 526 W 25th,
New YorkCrocker-Wheeler Co., Ampere, N. J.
Eddy Electric Mfg. Co., Windsor, Conn.
GENERAL ELECTRIC CO., Schenec-
tady, N. Y., & 44 Broad, New York. (See
adv. index & branch offices, end of book)
Green, W. Electric Co., 81 Nassau, New York
Hanson & Van Winkle Co., 219 Market, New-
ark, N. J.

Holtzer-Cabot Electric Co., Brookline, Mass.

Jantz & Leist Electric Co. (also Electrotypes),
Cincinnati, O.

Jenny Electric Mfg. Co., Indianapolis, Ind.

Lincoln Electric Co., Cleveland, O.

New England Motor Co., Lowell, Mass.

PHOENIX ELECTRIC COMPANY,
Mansfield, O. (See adv. index, end of book)WESTINGHOUSE ELECTRIC & MFG.
Co., Pittsburg, Pa. (See adv. index, &
branch offices, end of book)Zucket & Levett & Loeb Co., 526 W 25th, New
York**Dynamos (Plating)**

(See Dynamos, Electro Plating)

Dynamos (Turbine)De Laval Steam Turbine Co. (Direct & Alter-
nating Current), Trenton, N. J.**Dynamotors**

Akron Electric Mfg. Co., Akron, O.

Crocker-Wheeler Co., 39 Cortlandt, New York,
& Ampere, N. J.Elwell-Parker Electric Co., 1066 Hamilton,
Cleveland, O.Roth Bros. & Co. (Ringings), 27 S Clinton,
ChicagoSPRAGUE ELECTRIC CO., 527 W
34th, New York. (See adv. index & branch
offices, end of book)

Sterling Electric Motor Co., Dayton, O.

Ears (Pan & Kettle, Etc.)

(See Pan Ears.)

Earth (Infusorial)Hamhill & Gillespie, 240 Front, New York
Salomon, L. A. & Bro., 216 Pearl, New York**Earth Work Computing Table**

Pratt, Seth (Civil Engineer), Assyria, Mich.

Eave-Trough Hangers

(See Hangers, Eave-Trough)

Eave-Trough Mfrs.

(See Conductor Pipe & Eave-Trough Mfrs)

Edgers (Brick)

Horton Mfg. Co., Painesville, O.

Edgers (Double)American Woodworking Machinery Co., Roches-
ter, N. Y., West St. bldg, New YorkChase Turbine Mfg. Co. (Power Feed with Mov-
able Saw), Orange, Mass.

Filer & Stowell Co., Milwaukee, Wis.

LANE MFG. CO., Montpelier, Vt.
(See adv. index, end of book)

Murray, D. J., Mfg., Wausau, Wis.

Union Iron Works, Bangor, Me.

Edgers (Gang Saw)

Adams, W. T. Machine Co., Corinth, Miss.

American Sawmill Machinery Co. ("American"
& "Junior"), 114 Liberty, New York.

Works: Hackettstown, N. J.

American Woodworking Machinery Co., Ro-
chester, N. Y., & West St bldg, New York

Baldwin, Tuthill & Bolton, Grand Rapids, Mich.

Butterworth & Lowe, Grand Rapids, Mich.

California Saw Works, 208 Mission, San Fran-
cisco, Cal.

Clark Bros. Co., Belmont, N. Y.

Cook, R. A., Stevens Point, Wis.

Corinth Engine & Boiler Works, Corinth, Miss.
Curtis & Co. Mfg. Co. ("Dixie," etc.), St. Louis, Mo.

De Loach Mills Mfg. Co., Atlanta, Ga.
Diamond Iron Works ("Diamond & Armstrong"), Minneapolis, Minn.

Fay, J. A. & Egan Co., c Front & John, Cincinnati, O.

Filer & Stowell Co., Home Office, Milwaukee, Wis.
Frank Machinery Co., Buffalo, N. Y.

Garland, M. Co., Bay City, Mich.
Gordon Hollow Blast Grate Co. ("The Tower"), Greenville, Mich.

Hamilton, Wm. Mfg. Co., Peterboro, Ontario, Can.

Henderson, W. K. Iron Works, Shreveport, La.

Hill, W. E. & Co., Kalamazoo, Mich.
Holmes, E. & Co., Machinery Co., 59 Chicago, Buffalo, N. Y.

Howell, R. R. & Co., Minneapolis, Minn.

Huntsville Foundry & Machine Works, (Nolan & Jones, Props.), Huntsville, Ala.

Kline, Lewis T., Alpena, Mich.

Knight Mfg. Co., Canton, O.

LANE MFG. CO., Montpelier, Vt.
(See adv. index, end of book)

Lehman Machine Co., Williamsport, Pa.

Moltz, Jacob J., Williamsport, Pa.

Murray, D. J., Mfg. Co., Wausau, Wis.

Phoenix Mfg. Co., Eau Claire, Wis.

Prescott, E. J. Co., The, Menominee, Mich.

Prescott & Fitzpatrick, Marinette, Wis.

Smith, Myers & Schnier Co., Cincinnati, O.

Southern Engine & Boiler Works (Inc.), Jackson, Tenn.

Standard Saw Mill Machinery Co., Erie, Pa.

Stearns Mfg. Co., Erie, Pa.

Union Iron Works, Bangor, Me.

United States Machine Co. (Shingle, etc.), Williamsport, Pa.

Vulcan Iron Works Co., Seattle, Wash.

Wheland Machine Works, Chattanooga, Tenn.

Wickes Bros., Saginaw, Mich.

Williamsport Machine Co. (Shingle, etc.), Williamsport, Pa.

*Edgers (Lumber)

ALLIS-CHALMERS CO., Milwaukee, Wis.
(See adv. index & branch offices, end of book)

Filer & Stowell Co., Home Office, Milwaukee, Wis.

LANE MFG. CO., Montpelier, Vt.
(See adv. index, end of book)

Eductors (Jet Water & Sand Lifting)

Schutte & Koerting Co., 1251 N 12th, Phila., Pa.

Eggs (Chemical)

Larrabee, H. O. & Co., Baltimore Md.

Ejectors (Ash, Hydraulic)

Davidson, M. T. ("Davidson") 43 Keap, Brooklyn, N. Y., & 141 B'way, N. Y. City

Ejectors, Jet Pumps or Syphons

AMERICAN INJECTOR CO., cor Congress & Seventh, Detroit, Mich.
(See adv. index, end of book)

Belfield, H. & Co., 435 N. Broad, Phila., Pa.

Blakeslee Mfg. Co., Du Quoin, Ill.

Chaplin-Fulton Mfg. Co., ("Fulton"), 28 Penn av., Pittsburgh, Pa.

Daly & Co., W. J., Ogdensburg, N. Y.

Economy Ejector Co., ("Jones"), 907 Walnut Cincinnati, O.

Eynon-Evans Mfg. Co., 1519 Clearfield, Phila., Pa.

Forest City Brass Works ("Kennedy" Ejector), Cleveland, O.

Griffiths, Jas. A. ("Champion"), 500 N. 12th.

HANCOCK INSPIRATOR CO., The, 85, 87 & 89 Liberty, New York.
(See adv. index & branch offices, end of book)

HAYDEN & DERBY MFG. CO., ("H-D"), 85 Liberty, New York.
Works, 1 Watson, Boston, Mass. (See adv. index & branch offices, end of book)

Henneböhle, F., Chicago, Ill.

Howe Mfg. Co., Louisville, Ky.

Kinkaid Bros., ("Eureka"), Pittsburg, Pa.

Lee Mfg. Co., Port Huron, Mich.

Lonergran, J. E. & Co., 211 Race, Phila., Pa.

LUNKENHEIMER CO., General Offices & works, Beekman & Waverly, Cincinnati, O.
(See adv. index & branch offices, end of book)

McGowan, Jno. H., Co., 56 Central av., Cincinnati, O.

McNab & Harlin Mfg. Co., 56 John, New York City

Munkenbeck Bros., 88 Hamilton, Brooklyn, N. Y.

Nash Bros. & Co., Ogdensburg, N. Y.

Nason Mfg. Co., 71 Beekman, New York

Nathan Mfg. Co., 92 Liberty, New York

National Injector Co., Geneva, O.

Ohio Injector Co., ("Garfield"), Wadsworth, O.

Pancoast, Henry B., & Co. ("Model"), 243 S. 3d, Phila., Pa.

PENBERTHY INJECTOR CO., ("XL-96"), 346 Holden av, Detroit, Mich.
(See adv. index, end of book)

Registers Sons Co. ("Ebermann"), Baltimore, Md.

Rne Mfg. Co., 228 Cherry St., Phila., Pa.

SCHAEFFER & BUDENBERG MFG. Co., Foxboro, Mass.
(See adv. index & branch offices, end of book)

Schutte & Koerting Co., 1251 N. 12th, Phila., Pa.

See, Horace (Hydro-Pneumatic Ash), 1 B'way New York

Sherwood Mfg. Co. ("Eagle"), Buffalo, N. Y.

Shone Co., (Pneumatic), 445 W. 46th, Chicago, Ill.

Standard Sanitary Mfg. Co., Pittsburg, Pa.

Steam Appliance Co., ("Niagara" & "Duplex"), Milwaukee, Wis.

Stephens Mfg. Co. ("Crescent"), Roe, Detroit, Mich.

Tranter Mfg. Co., ("Coll," "Defiance," "McFeeley," "McKnight," "Sheriff"), Pittsburg, Pa.

Van Duzen, E. W., Co., (steam only), 428 E. Watson, N. A., Erie, Pa.

Watson & McDaniel Co., ("McDaniel"), 146 N. 7th, Phila., Pa.

Wormer, C. C. Machinery Co., 95 Woodbridge, W. Detroit, Mich.

Ejectors (Pneumatic)

MERRITT & CO., 1024 Ridge av, Phila., Pa.
(See adv. index, end of book)

Shone Co. ("Shone"), 445 W 46th, Chicago, Ill.

Elaterite

(See Hydro Carbons.)

*Elbows (Conductor Pipe)

MILWAUKEE CORRUGATING CO., Milwaukee, Wis.
(See adv. index, end of book)

Elbows (Plumbers' Rubber)

Climax Specialty Co. ("Climax" Adjustable), Seneca Falls, N. Y.

Glauber Brass Mfg. Co. ("Cut-Me-Off" Rubber Closet), Cleveland, O.

Morgan & Wright (Inc.), 226 Jefferson av, Detroit, Mich.

Superior Mfg. Co. ("Superior"), Cleveland, O.

*Elbows (Union)

Milwaukee Valve Co. (Brass), Milwaukee, Wis.

LUNKENHEIMER CO. (Brass), General Offices & Works, Beekman & Waverly, Cincinnati, O.
(See adv. index & branch offices, end of book)

WILLIAMS, D. T. VALVE CO., 904 B'way, Cincinnati, O.
(See adv. index, end of book)

Election Booths (Steel or Wood)

American Steel House Co., 796 11th av, New York

FOREST CITY STEEL & IRON CO. (Steel), 110th nr Detroit av, Cleveland, O.
(See adv. index, end of book)

Van Dorn Iron Works Co., Cleveland, O.

Electric Bells

(See Bells, Electric)

Electric Blasting Apparatus

(See also Blasting Fuses, Caps, etc.)

INGERSOLL - RAND CO., 11 B'way, New York.
(See adv. index & branch offices, end of book)

Macbeth Fuze Works, Pompton Lakes, N. J.

New York Powder Works, 55 Liberty, New York

Rendrock Powder Co., 11 B'way, New York

Rogers, Jno. M., Gloucester, N. J.

Standard Fuse Co., Winfield Junction, N. Y.

Western Electric Co., 259 S Clinton, Chicago, Ill., & 57 Bethune, New York

Electric Car Lighting Apparatus

(See Car Lighting Apparatus)

*Electric Car Lighting (Bliss System)

BLISS ELECTRIC CAR LIGHTING Co., Milwaukee, Wis.

Electric Clocks

(See Clocks, Electric)

Electric Door Openers

(See Door Openers, Electric)

*Electric Elevator Signals

ELEVATOR SUPPLY & REPAIR CO., 76 W Monroe, Chicago, Ill., & 136 Liberty, New York.
(See adv. below)

ELECTRIC SIGNALS

FOR

PASSENGER ELEVATORS

ELEVATOR SUPPLY & REPAIR CO.

36 LIBERTY ST NEW YORK 76 W. MONROE ST. CHICAGO

Electric Generators

(See Generators, Various Kinds)

Electric Lamps

(See Lamps, Various Kinds)

Electric Light Central Stations

ALABAMA.

ANNISTON—Anniston Electric & Gas Co.

ATTALLA—Etowa Lt. & P. Co.

AVONDALE—Birmingham R'way, Lt. & P. Co.

BIRMINGHAM—Birmingham Ry., Lt. & P. Co.

DECATUR—(See New Decatur)

DEMOPOLIS—Demopolis Elec. Lt. & P. Co.

DOTHAN—Dothan El. Lt. & Wtr. Plant (City)

ENSLEY—Birmingham Ry., Lt. & P. Co.

EUFULA—Eufaula Gas, Electric Light & Power Co.

EUTAW—Eutaw Water Works, E. & Power Co.

GADSDEN—Alabama Cy, Gadsden & Attalla

GIRARD—See Columbus, Ga.

GREENSBORO—Greensboro Wtr. & Lt. Co.

GREENVILLE—Henderson Lt. & P. Co.

HUNTSVILLE—Huntsville Ry., L. & Power Co.

LANETT—Lanett Cotton Mills.

MOBILE—Electric Lighting Co. of Mobile.

Mobile Light & R. R. Co.

MONTGOMERY—Citizens' Lt., Ht. & P. Co.

Montgomery L. & Water Power Co.

West D. P. (Hotel Elec. Plant)

NEW DECATUR—Decatur L., Power & Fuel Co.

OPELIKA—Alabama Electric Light & Power Co.

OZARK—City Elec. Lt. Plant (City)

PHOENIX CITY—See Atlanta, Ga.

PRATT CITY—Birmingham Ry. Lt. & P. Co.

PRATTVILLE—Prattville Light & Power Co.

Atlanta Oil & Fertilizer Co.

SELMA—Selma Lighting Co.

ALASKA.

JUNEAU—Alaska Elec. Lt. & Power Co.

NOME—Nome El. Lt. & P. Co.

SKAGWAY—Northwest Light & Power Co.

ARIZONA.

BISBEE—Bisbee Improvement Co.

CLIFTON—Enterprise Power Co.

CROWN KING—Crown King Mining Co.
 FLAGSTAFF—Flagstaff Elec. Lt. Co.
 JEROME—United Verde Copper Co.
 MESA—Consolidated Canal Co.
 NOGALES—Nogales Elec. Lt., Ice & Water Co.
 PHOENIX—Pacific Gas & El. Co.
 PRESCOTT—Prescott Electric Co.
 TEMPE—Tempe Pumping Co.
 TUCSON—Tucson Gas, Electric Light & Power Co.
 WILLIAMS—Grand Canyon Lt. & P. Co. Co.
 YUMA—Yuma Water & Light Co.

ARKANSAS.

ARGENTA STATION—Little Rock Ry. & El. Co.
 ARKADELPHIA—Arkadelphia Water & Elec. Co.
 BATESVILLE—Batesville Wtr. Wks. & El. Lt. Plant
 BENTON—The Benton Lt., Pwr. & Ice Co.
 BRINKLEY—Farrell, Light, Heat & Power Co.
 CAMDEN—Camden Power & Light Co.
 CLARENDON—Clarendon Electric Light & Ice Co.
 CONWAY—Conway El. & Mfg. Co. Co.
 DE QUEEN—De Queen Lt., Ice & Cold Stor. Co.
 DEVAL'S BLUFF—Devall Bluff El. Lt. Plant
 ELDORADO—Eldorado Light & Power Co.
 EUREKA SPRINGS—Citizens' Elec. Co.
 FAYETTEVILLE—Fayetteville Electric Light & Power Co.
 FORDYCE—Fordyce Lt. & Wtr. Co.
 FORT SMITH—Ft. Smith Electrical Supply Co. Ft. Smith Light & Traction Co.
 HARRISON—Harrison Elec. Light & Ice Co.
 HELENA—Helena Gas Co.
 HOPE—City Wtr. & El. Lt. Plant.
 HOT SPRINGS—Hot Springs Water Co.
 JONESBORO—Jonesboro Water & Light Co.
 LITTLE ROCK—Little Rock Ry. & El. Co. City Electric Lt. Plant (City)
 MALVERN—Malvern Light & Power Co.
 MAMMOTH SPRING—Mammoth Spring Elec. Light Co.
 MARIANNA—Marianna Lt. & Pwr. Co.
 MENA—Mena El. Lt. & Pwr.
 MONTICELLO—City Wtr. & Lt. Plant (City)
 MORRILTON—Ashley El. Lt. Co.
 NEWPORT—Pond & Decker Electric Light Co.
 PARAGOULD—Crystal Ice Co.
 PINE BLUFF—Pine Bluff Light & Water Co. Citizens' Lt. & Transit Co.
 POCAHONTAS—Pocahontas Ice & Power Co.
 PRESCOTT—Prescott Wtr. & Lt. Plant (City)
 RUSSELLVILLE—Melts, Lt. & Cold Stor. Co.
 SEARCY—City El. Lt. Plant Distr. No. 1 (City)
 SILOAM SPRINGS—City Electric Plant (Municipal)
 STUTTGART—Stuttgart Water & Electric Light Co.
 TEXARKANA—Texarkana Gas & Elec. Lt. Co.
 VAN BUREN—Van Buren El. Lt. & P. Co.
 WYNNE—Wynne Lt. & Wire W.

CALIFORNIA.

ALAMEDA—City El. Lt. Plant (City)
 ANGELS CAMP—Utica Pwr. Co. Arcata Lt. & P. Co.
 AUBURN—Bell Electric Co.
 BAKERSFIELD—Power, Transit & Light Co.
 BENICIA—Solano Elec. Lt. & Gas Co.
 BERKELEY—Berkeley Electric Lighting Co.
 BISHOP—Bishop Light & Power Co.
 BLACK DIAMOND—Redwood Mfg. Co.
 BOULDER CREEK—Boulder Creek Electric Light & Power Co.
 CASPAR—Mendocino El. Lt. & Pwr. Co.
 CHICO—Chico Gas & Electric Co.
 COLTON—City Elec. Light Plant (City Power)
 CORONA—Corona Gas & Elec. Light Co. The Temescal Wtr. Co.
 CRESCENT CITY—Crescent City Light, Water & Power Co. (See Sonora)
 EUREKA—Eureka Lighting Co. North Mountain Pwr. Co.
 EXETER—(See Visalia)
 FERNDALE—Ferndale Elec. Lt. Co.
 FRESNO—San Joaquin Lt. & Pwr. Co.
 GRASS VALLEY—(See Nevada City)
 HANFORD—Lacey Co. H. G.
 HAYWARDS—Suburban El. Lt. Co.
 HEALDSBURG—Healdsburg El. Lt. & Wtr. Wkr.
 HOLLISTER—Hollister Lt. & Power Co.
 INGLESWOOD—United Electric, Gas & Power Co.
 JACKSON—The Amador El. Ry. Co. Co.
 KESWICK—Northern California Pwr. Co.
 KNIGHTS FERRY—City Elec. Lt. Plant
 LINDSAY—(See Visalia)
 LIVERMORE—Livermore Water & Power Co.
 LONG BEACH—Edison Electric Co., Los Angeles
 LOOMIS—(See Sacramento)
 LOS ANGELES—Edison Electric Co., 124 E 4th Los Angeles Gas & Electric Co., 645 S Hill
 LOS GATOS—El. Light, Ice & Power Co.
 MADERA—Madera Electric Co.

MARYSVILLE—Marysville Gas & El. Co.
 MENDOCINO—Mendocino Electric Light & Power Co.
 MENLO PARK—(See Redwood City)
 MERCED—Merced Falls Gas & Electric Co.
 MODESTO—Consolidated Stanislaus Wtr. & Pr. Co.
 MONROVIA—Edison Electric Co. Co.
 MONTEREY—Monterey County Gas & Electric Co.
 MOUNTAIN VIEW—(See Redwood City) Co.
 NAPA—California Gas & Electric Co.
 NEVADA CITY—Nevada County Gas & Electric Co.
 NEW CASTLE—(See Sacramento) Co.
 OAKLAND—Oakland Gaslight & Heat Co.
 OCEAN PARK—Edison Electric Co.
 OROVILLE—Oroville Light & Power Co.
 OXNARD—Oxnard Lt. & Wtr. Co.
 PACIFIC GROVE—(See Monterey)
 PALO ALTO—Palo Alto Lt. Co. (City)
 PASADENA—Edison Electric Co.
 PASO ROBLES—Paso Robles El. Lt. & Wtr. Co.
 PETALUMA—Petaluma Gas & El. Lt. Co.
 PLEASANTON—(See Livermore Water & Power Co., Livermore)
 POMONA—Edison Elec. Co. of Los Angeles
 PORTERVILLE—Mt. Whitney Pow. Co.
 RED BLUFF—Northern California Pwr. Co. (See San Francisco)
 Red Bluff Electric Power Co.
 REDDING—Northern Cal. Power Co.
 REDLANDS—Edison El. Co. (Los Angeles)
 REDONDO—Edison Electric Co.
 RICHMOND—Richmond Lt. & Pwr. Co.
 REDWOOD CITY—United Gas & Electric Co.
 RIVERSIDE—City Elec. Lt. Dept. Riverside Pwr. Co.
 SACRAMENTO—Central Cal. Elec. Co. (South Luba Water Co., Owners)
 Sacramento Electric, Gas & Ry Co.
 SALINAS—Monterey Gas & El. Co.
 SAN BERNARDINO—San Bernardino Gas & Electric Co.
 SAN CARLOS—(See Redwood City)
 SAN DIEGO—San Diego Gas & Elec. Light Co.
 SAN FRANCISCO—California Gas & Electric Corporation
 Central Light & Power Co., Parrott bldg
 Mutual Electric Light Co., 627 Howard
 Northern California Pwr. Co.
 Pacific Lighting Co., 508 Montgomery
 San Francisco Gas & Electric Co., 415 Post
 The Standard El. Co. of Cal.
 SANGER—Sanger Light & Power Co.
 SAN JACINTO—San Jacinto El. Lt. Plant
 SAN JOSE—United Gas & Elec. Co.
 SAN LEANDRO—Suburban El. Lt. Co.
 SAN LUIS OBISPO—San Luis Obispo T. H. Elec. Lt. Co.
 SAN MATEO—Consolidated Lt. & Pwr. Co.
 SAN PEDRO—The Edison El. Co., Los Angeles
 SAN RAFAEL—San Rafael Gas & Electric Lt. Co.
 SANTA ANA—The Edison El. Co., Los Angeles
 SANTA ANA CANON—(See So. Cal. Power Co., Los Angeles)
 SANTA BARBARA—Merchants Mutual Lt. & Pwr. Co.
 The Edison El. Co., Los Angeles
 SANTA CLARA—City Elec. Lt. Plant (City)
 SANTA CRUZ—Big Creek Co. (Power Only) City El. Plant (City)
 Santa Cruz El. Lt. & P. Co.
 Co-operative Elec. Co.
 SANTA MARIA—Valley El. Co.
 SANTA MONICA—Edison El. Co., Los Angeles
 SANTA PAULA—Santa Paula Elec. Co.
 SANTA ROSA—Santa Rosa Lighting Co.
 SANSALITO—Sausalito Lt., Wtr. & P. Co.
 SELMA—San Joaquin Lt. & P. Co. (Fresno)
 SISSON—Johnson, G. H.
 SONORA—Tuolumne County Water & Electric Tuolumne El. Pwr. & Lt. Co. Pwr. Co.
 SOUTH PASADENA—(See Pacific Lt. & Pwr. Co., Los Angeles)
 SOUTH SAN FRANCISCO—South San Francisco P. & Lt. Co.
 STOCKTON—Stockton Gas & Electric Co. American River El. Co.
 SUISUN—Suisun Electric Light & Power Co.
 SUTTER CREEK—Amador Elec. Ry. & Light Co.
 TERMINAL ISLAND—Edison El. Co., Los Angeles
 TRUCKEE—Truckee Electric Light & Power Co.
 TULARE—Tulare Gas Co.
 UKIAH—Ukiah City El. Lt. Plant (City)
 VACIAH—Vacaville Water & Light Co.
 VALLEJO—Vallejo Electric Light & Power Co.
 VENTURA—Ventura Water, Light & Power Co.
 VISALIA—Mount Whitney Power Co.
 WATSONVILLE—Watsonville Water & Light Co.
 WEAVERVILLE—Weaverville Elec. Co. Co.
 WILLOW—Willow Water & Light Co.
 WOODLAND—Woodland Gas & El. Co.
 YREKA—Siskiyou El. Pwr. Co.
 YUBA—(See Marysville)

COLORADO.

ALAMOSA—The Mutual El. Lt. & Pwr. Co.
 ASPEN—Roaring Fork Electric Light & Power Co.
 BLACK HAWK—Gilpin Co. Light, Heat & Power Co.
 BOULDER—Boulder El. Lt. & Pwr. Co.
 BUENA VISTA—Buena Vista Smelting & Refining Co.
 CANON CITY—The Colorado Lt. & P. Co.
 CENTRAL CITY—The Gilpin County Lt., Ht. & P. Co.
 COLORADO SPRINGS—Citizens' Heat, Light & Colorado Springs Electric Co. Power Co.
 Pike's Peak Hydro. El. Co.
 CRESTED BUTTE—Crested Butte Light & Water Co.
 CRIPPLE CREEK—The Colorado El. P. Co.
 DEL NORTE—Town of Del Norte El. Wks.
 DENVER—Denver Gas & Electric Co., 405 17th Denver Highlands El. Co.
 Lacombe Electric Co., 1532 Stout
 New Century Lt. & Pwr. Co.
 Nevada Pwr. Mining & Milling Co.
 United States Lt. & Traction Co.
 DURANGO—Durango Light & Power Co.
 The Animas Canal Power & Water Co.
 EMPIRE—F. L. Peck (Owner)
 FLORENCE—Arkansas Valley Elec. Co.
 FORT COLLINS—The Larimer Light & P'r Co.
 GEORGETOWN—United Hydro El. Co.
 GLENWOOD SPRINGS—Glenwood Light & Water Co.
 GOLDEN—Golden Illuminating Co.
 GOLDFIELD—La Bella Mill, Wtr. & Pwr. Co. The Gold Belt Consol. El. Co.
 GRAND JUNCTION—Grand Junction El. & Gas
 GREELEY—Greeley Power & Light Co. Co.
 GUNNISON—Gunnison Gas & Water Co.
 IDAHO SPRINGS—The United Hydro El. Co. Consolidated Gem Mines Co.
 LAFAYETTE—Lafayette-Louisville Elec. Co.
 LA JUNTA—La Junta Electric Co.
 LAMAR—Lamar El. Co.
 LAS ANIMAS—Las Animas El. Co.
 LEADVILLE—Leadville Gas & Electric Co.
 LONGMONT—Longmont Electric Light & P. Co.
 MANITOU—Manitou Electric Co.
 MONTE VISTA—Monte Vista Electric & Gas Light Co.
 MONTROSE—Montrose El. Lt. & P. Co.
 OURAY—Ouray Electric Power & Light Co.
 PUEBLO—Pueblo & Suburban Traction & Ltg. Co. Elec. Lt. Plant
 ROCKY FORD—Rocky Ford El. Co.
 SALIDA—The Salida Lt., Pwr. & Utility Co.
 SILVER PLUME—(See Georgetown)
 SILVERTON—Silverton City El., Lt. Plant (City)
 TELLURIDE—Telluride Electric Light & Power Co. The Telluride Power Co.
 TRINIDAD—Las Animas L. P. & Mfg. Co. The Trinidad Lt. & Pwr. Co.
 VICTOR—The Pueblo & Suburban Trac. & Ltg. Co. The Gold Belt Consolidated El. Co. Co.
 WALSENBERG—Walsenberg, E. L. & Power Co.

CONNECTICUT.

BRANFORD—The Consolidated Railway Co.
 BRIDGEPORT—Connecticut Railway & Lighting Co., 652 Water
 United Illuminating Co., 148 John
 BRISTOL—Bristol & Plainville Tramway Co.
 DANBURY—Danbury & Bethel Gas & Electric Lighting Co.
 DANIELSON—Poeple's Light & Power Co.
 DERBY—Derby Gas Co.
 EAST HAMPTON—East Haddam Electric Light Co.
 GLASTONBURY—Glastonbury Power Co.
 GUILFORD—(See Branford)
 HARTFORD—Farmington River Power Co. Hartford Electric Light Co.
 JEWETT CITY—Borough Electric Light Plant (City)
 LITCHFIELD—Litchfield Electric Light & Power Co.
 MANCHESTER—Manchester Light & Power Co.
 MERIDEN—Meriden Electric Light Co.
 MIDDLETOWN—Middletown Electric Light Co.
 MYSTIC—Mystic Electric & Gas Light Co.
 NAUGATUCK—Conn. Ry. & Lighting Co., 81 Maple
 NEW HAVEN—United Illuminating Co.
 NEW LONDON—New London Gas & Electric Co.
 NEW MILFORD—New Milford Electric Light
 NORWICH—City Electric Light Plant (City)
 PUTNAM—Putnam Light & Power Co.
 RIDGEFIELD—Ridgefield Lighting Co.
 ROCKVILLE—Rockville Gas & Electric Co.
 SEYMOUR—Seymour Elec. Light Co.
 SHARON—Berkshire Power Co.

SOUTH MANCHESTER—S. Manchester L., P. & T. Co.
SOUTH NORWALK—Connecticut Ry. & Lighting Co.
 South Norwalk Electric Light Works (City)
STAFFORD SPRINGS—Stafford Springs El. L. Co.
STAMFORD—Stamford Gas & Electric Co.
STONY CREEK—(See Branford)
STONINGTON—(See Mystic)
SUFFIELD—Village Water Co.
THOMASTON—Thomaston Electric Light Co.
THOMPSONVILLE—Enfield Electric Lt. & Pr. Co.
TORRINGTON—Torrington Electric Light Co.
UNIONVILLE—Unionville Electric Light & Power Co.
WALLINGFORD—Borough Electric Works
WATERBURY—Conn. Railway & Lighting Co.
 571 Bank
WESTPORT—Westport Water & Electric Light
WEST WINSTED—Winsted Gas Co.
WILLIMANTIC—Willimantic Gas & Electric Light Co.
WINDSOR—The Hartford Electric Light Co.
WINDSOR LOCKS—Windsor Locks Lighting Co.
WINSTED—Winsted Gas Co.
WOODBURY—Woodbury Electric Co.

DELAWARE.

DOVER—City Electric Light Plant
GEORGETOWN—Georgetown Light, Heat & Power Co.
LAUREL—Laurel-Seaford Electric Co.
LEWES—Board of Public Works (City)
MIDDLETOWN—Town of Middleton Light & Water Commission
MILFORD—Milford Light & Water Plant (City)
NEWARK—Electric Light & Water Plant (Munic.)
SMYRNA—Smyrna Electric Light Plant (Munic.)
WILMINGTON—Interstate Power Co.
 Wilmington Light, Power & Telephone Co.

DISTRICT OF COLUMBIA.

WASHINGTON—Potomac Electric Power Co., 213 14th, n. w.
 United States Electric Lighting Co., 213 14th, n. w.
 Southern Public Corporation (Office, Bond bldg)

FLORIDA.

APALACHICOLA—Apalachicola Electric Light & Telephone Co.
ARCADIA—Arcadia Electric Light, Ice & Telephone Co.
BARTOW—Bartow Electric Plant (Munic.)
DE LAND—(See Stetson)
FERNANDINA—City of Fernandina Lighting Plant (City)
FORT MEYERS—Seminole Power & Ice Co.
GAINESVILLE—Gainesville Gas & Electric Power Co.
JACKSONVILLE—Jacksonville Electric Light Plant (City)
KEY WEST—Key West Electric Co.
KISSIMMEE—Kissimmee Electric Light Plant (City)
LAKE CITY—Lake City Water & Light Plant
LAKELAND—Lakeland Electric Light Plant (Municipal)
MIAMI—Miami Electric Light & Power Plant
OCALA—Ocala Electric Light Plant (City)
PALATKA—Palatka Gas Light & Fuel Co.
PENSACOLA—Escambia County Electric Light & Power Co.
PORT TAMPA CITY—Port Tampa Light & Power Co.
QUINCY—Quincy Electric Light & Ice Co.
ST. AUGUSTINE—St. Augustine Gas & Electric Light Co.
ST. PETERSBURG—St. Petersburg Electric Light & Power Co.
STARKE—City Electric Light & Water Plant (City)
TALLAHASSEE—City Electric Light Plant (City)
TAMPA—Tampa Electric Co.
 Tampa Illuminating Co.
TITUSVILLE—Titusville Electric Light Co.
WEST PALM BEACH—East Coast Electric Light, Power & Ice Co.
WEST TAMPA—Electric Light & Water Plant (City)

GEORGIA.

ALBANY—City Electric Works (City)
 Albany Power & Mfg. Co.
AMERICUS—Americus Illuminating & Power Co.
ATHENS—Athens Electric Railway Co.
ATLANTA—Georgia Railway & Electric Co.
AUGUSTA—Augusta Railway & Electric Co.

BAINBRIDGE—Bainbridge Electric Light Plant (City)
BARNESVILLE—City Elec. Light Plant (Munic.)
BRUNSWICK—Mutual Light & Water Co.
CAMILLA—Camilla Light & Water Works Dept.
CARROLLTON—Carrollton Electric Co. (City)
CARTERSVILLE—Cartersville Light & Power Co.
CEDARTOWN—Water & Light Dept. (City)
COCHRAN—City Electric Plant (City)
COLUMBUS—Columbus R. R. Co. Lighting Dept.
CORDELE—Citizens' Electric Light & Power Co.
COVINGTON—City Electric Light Plant (City)
CUTHBERT—City Electric Light & Water Plant (City)
DALTON—City Electric Light Plant (Munic.)
DAWSON—Dawson Electric Light Plant (City)
DECATUR—Decatur Electric Light, Power & Water Co.
DUBLIN—Dublin Light & Water Works (City)
EASTMAN—Eastman Electric Light Plant (City)
ELBERTON—City Electric Light Plant (City)
FITZGERALD—Water & Light Plant (City)
FORT VALLEY—City Water & Electric Light Plant (Plant)
GAINESVILLE—City Electric Light Plant
GRIFFIN—City Light & Water Works (City)
 Towaliga Falls Power Co.
HARTWELL—City Electric Light Plant
HAWKINSVILLE—Hawkinsville Cotton Mill
LA GRANGE—La Grange Mills
LAWRENCEVILLE—City Electric Light Plant
 Lawrenceville Mfg. Co.
MACON—Macon Gas Light & Water Co.
 Macon Railway & Light Co.
MADISON—City Electric Light Plant
MARIETTA—Georgia Mfg. & Public Service Co.
MILLEDGEVILLE—Milledgeville Electric Light Co.
MONROE—City Water & Electric Light Plant
MONTEZUMA—Montezuma Mfg. Co.
MOULTRIE—City Electric Light Plant
NEWMAN—Newman Light Plant (City)
QUITMAN—Quitman Electric Light Plant (City)
ROME—Rome City Electric Railway Co.
 Woodruff Electric Co.
SAVANNAH—Savannah Electric Co.
STATESBORO—City Electric Light & Water Works
TENNILE—City Electric Light Plant
THOMASTON—Municipal Electric Light Plant
THOMASVILLE—Thomasville Electric Light Plant (Munic.)
TOCCO—Tocco Falls Light & Power Co.
VALDOSTA—Valdosta Ice & Mfg. Co.
WASHINGTON—City Public Works
WAY CROSS—The Way Cross Electric Light & Power Co.
WAYNESBORO—Waynesboro Electric Light & Water Works Co.
WEST POINT—City Elec. Light Plant (City)
WINDER—City Electric Light Plant

HAWAII.

HAWAII—Hilo Electric Light Co.
HONOLULU—Government Electric Light System
 Hawaiian Electric Co. (Ltd.)
 Kauai Electric Co. (Ltd.)

IDAHO.

BOISE—Barber Lumber Co.
 Boise-Payette River Electric Power Co.
 Capital Electric Light, Motor & Gas Co.
 Electric Power Co. (Ltd.)
BURKE—Canyon Creek Electric Co.
COEUR D'ALENE—Consumers' Co.
HAILEY—City Electric Light Plant (City)
LEWISTON—Lewiston-Clarkson Co.
MOSCOW—Moscow Electric Light & Power Co.
MULLAN—Mullan Electric Light & Power Co.
POCATELLO—American Falls Power, Light & Water Co.
WALLACE—Wallace Light & Power Co.
WARDNER—Bunker Hill & Sullivan Mining & Construction Co.
WEISER—Electric Light Plant (City)

ILLINOIS.

ABINGDON—Abingdon Electric Co.
ALEDO—Bilton Bros. El. Lt. Co.
ALEXIS—Alexis El. Lt. Co.
ANTAMONT—City El. Lt. Plant.
ALTON—Alton Gas & Electric Co.
AMBOY—Amboy Lighting & Power Co.
ANNA—Anna Electric Light Plant (H. L. Nordling, Propr.)
 Fruit Growers' Refrig. & Power Co.
ARCOLA—Woodworth Electric Light & Power Plant (S. L. Woodworth, Propr.)
ASSUMPTION—National Mfg. & Electric Co.
ASTORIA—Astoria Electric Light, Heat & Power Co.
ATHENS—Athens Electric Plant.
ATLANTA—Atlanta Elec. Lt. & Power Co.
AURORA—Aurora City El. Lt., Ht. & Pwr. Co.
 Western United Gas & El. Co.

AUSTIN—(See Oak Park.)
AVON—Avon Milling & Mfg. Co.
BARRINGTON—Barrington El. Lt. & Power Co.
BARRY—Hillman, E. B.
BATAVIA—City of Batavia El. Lt. & Wtr. Pl.
BEARDSTOWN—Beardstown Electric Light & Power Co.
BELLEVILLE—Belleville Gas & El. Co.
BELVIDERE—Public Service Operating Co.
BEMENT—Bement Electric Light & Power Co.
BENTON—City El. Lt. Plant (city).
BERWYN—Village El. Lt. Plant (city).
BLANDINSVILLE—Wright, O. H.
BLOOMINGTON—Bloomington & Normal Ry. & City Electric Light Plant (city). Lt. Co.
 Union Gas & Electric Co.
BLUE ISLAND—City Electric Light Plant (munic.)
BRADFORD—Bradford Electric Light Co.
BRAIDWOOD—Electric Light Plant (city).
BUSHNELL—Bushnell Elec. Lt. & Pwr. Co.
CAIRO—Cairo Electric Light & Traction Co.
CAMBRIDGE—Cambridge Electric Lt. & P. Co.
CAMP POINT—The Camp Point Elec. Light & Power Co.
CANTON—People's Gas & Electric Light Co.
CARBONDALE—Carbondale Water, Light & Power Co.
CARLINVILLE—Carlinville Gas & Electric Light Works
CARM—City Electric Light Plant (city).
CARROLLTON—Carrollton Ht., Lt. & Power Co.
CARTERSVILLE—Cartersville Electric Plant.
CARTHAGE—Carthage El. Lt. & Power Co.
CENTRALIA—Centralia Gas & El. Co.
CHAMPAIGN—Urbana & Champaign Ry., Gas & Electric Co.
CHARLESTON—Charleston Lt., Ht. & Pr. Co.
CHATSWORTH—Chatsworth El. Lt. Plant.
CHENOA—McDonald, C. C.
CHESTER—Chester Light, Water & Ice Co.
CHICAGO—Chicago Edison, 139 Adams.
 City of Chicago El. Lt. Dept. (city).
 Commonwealth Electric Co., 139 Adams
 Gregory Central Station Co.
 Lincoln Park Commissioners.
 South Park Commissioners.
 West Chicago Park Commissioners.
 Consolidated Ry., Electric Lighting & Equipment Co., 83 W Jackson bou
 Cosmopolitan Electric Co.
 Dearborn Lighting Co., 309 Dearborn.
CHICAGO HEIGHTS—North Shore Electric Co.
CHILLICOTHE—Dailey, J. S.
CISSNA PARK—Cissna Park Ltg. Co.
CLAYTON—Clayton Village El. Lt. Plant.
CLINTON—Clinton Gas Co.
COAL CITY—City Electric Light Plant (city).
COLCHESTER—Colchester E. L. & Pr. Co.
COLFAX—Electric Light Plant.
COLLINSVILLE—Collinsville El. Lt., Heat & Columbia—El. Light Plant (city). Pr. Co.
CORNELL—Rhodes, M. J.
DANVILLE—Danville Street Ry. & Light Co.
DECATUR—Decatur El. Lt. Plant (city)
 Decatur Ry. & Ltg. Co.
DE KALB—De Kalb-Sycamore Electric Co.
DE LAVAN—Royal Electric Light & Power Co.
DIXON—Lee County Ltg. Co.
DUNDEE—Citizens' Light, Heat & Power Co.
DWIGHT—Dwight El. Lt. Plant.
EARLVILLE—Wilson, John T.
EAST ST. LOUIS—Citizens' Electric Light & Power Co.
EDWARDSVILLE—Madison County Lt. & Pr. Co.
EFFINGHAM—Effingham Electric Light & Power Co.

When writing to firms
 whose names appear
 in this book please
 mention

HENDRICKS'
COMMERCIAL
REGISTER.

ELDORADO—City Electric Light Plant.
 ELGIN—City of Elgin El. Lt. Plant (city).
 Elgin & Chicago R. R. Co.
 ELMHURST—Elmhurst El. Lt. & Power Co.
 ELMWOOD—Brown, E. L.
 EL PASO—Gray, H. R.
 EUREKA—Eureka El. Lt. Plant.
 EVANSTON—North Shore El. Co.
 FAIRBURY—Fairbury El. Lt., Ht. & Pr. Co.
 FAIRFIELD—Fairfield El. Lt. Plant (city).
 FARMER CITY—City Elec. Light Plant (city).
 FARMINGTON—Farmington Elec. Light Co.
 FLORA—City El. Light Plant (munic.)
 FREEPORT—Freeport Railway Lt. & Pr. Co.
 FULTON—Fulton Elec. Light.
 GALENA—Galena Elec. Light & Waterworks
 (Municipal)
 GALESBURG—Galesburg City El. Lt. Plant
 Galesburg Ry. & Lt. Co. (city)
 Galesburg El. Motor & Power Co.
 GALVA—City El. Lt. Plant (city).
 GARDNER—Anderson, Christian.
 GENESEO—Geneseo Electric Light Co.
 GENEVA—City of Geneva Electric Light & Waterworks
 GENOA—Genoa Electric Light Co.
 GIBSON—Gibson El. Lt. & Pwr. Co.
 GILLESPIE—Gillespie Electric Light Co.
 GRAND RIDGE—Williams, Elmer B.
 GRANITE CITY—Madison County Lt. & Pr. Co.
 GRAYVILLE—Grayville Wtr. Works Co.
 GREENFIELD—Greenfield Electric Light Co.
 GREENVILLE—Greenville Electric Light, Heat
 & Power Co.
 HARLEM—Harlem Wtr. Wks. & El. Lt. Plant
 (city)
 HARRISBURG—Harrisburg Water, Light & Power Co.
 HARVARD—City Elec. Light Plant (city).
 F. L. Smith Elec. Co.
 HARVEY—North Shore Elec. Co.
 HAVANA—Havana Elec. Co.
 HENRY—Henry Electric Lt. & Power Co.
 HIGHLAND—Town Elec. Light Plant (city).
 Highland Park Light & Pwr. Co.
 North Shore Elec. Co.
 HILLSBORO—Hillsboro Elec. Lt. & Pwr. Co.
 HINSDALE—City Elec. Lt. Plant (city).
 HOMER—Homer Light & Power Co.
 HOPESTON—Hoopeston Elec. Lt. & Htg. Co.
 IPAVA—Foote, C. F.
 JACKSONVILLE—Jacksonville Electric Light
 Plant (City)
 Jacksonville Ry. & Light Co.
 JERSEYVILLE—Jerseyville Illuminating Co.
 JOLIET—Economy Light & Power Co.
 JONESBORO—City El. Lt. Plant (city).
 KANKAKEE—Kankakee Electric Light Co.
 KEITHSBURG—Keithsburg El. Lt. & Power
 KEWANEE—Kewanee Lt. & Pwr. Co. Plant
 KINMUNDY—City Elec. Lt. Plant (munic.)
 KIRKLAND—Kirkland Elec. Light Plant.
 KNOXVILLE—Knoxville Elec. Lt. & Power Co.
 LACON—Lacon Electric Light Co.
 LAFAYETTE—Atherton, J. S.
 LA HARPE—La Harpe Elec. Lt. & Power Co.
 LANARK—Warfe, A. L.
 LA SALLE—City Electric Light Plant
 Marquette Heating & Lighting Co.
 Citizens' Lighting Co.
 LAWRENCEVILLE—Lawrenceville Water & Light Co.
 LEBANON—Lebanon City Ltg. Plant (City)
 LEMONT—Lemont Elec. Lt. & Power Co.
 LE ROY—Le Roy Elec. Lt., Power & Heat Co.
 LEWISTOWN—Fisher Pwr., Ht. & El. Lt. Co.
 LEXINGTON—Lexington Elec. Light Co.
 LINCOLN—Lincoln Water & Light Co.
 LITCHFIELD—Litchfield Gas & Electric Co.
 LOCKPORT—City Elec. Light Plant (city).
 LODA—Addams, Morgans & Co.
 LOUISVILLE—City Light & Water Plant (Municipal)
 LOVINGTON—Lovington El. Lt. & Pwr. Co.
 McLEANSBORO—City Elec. Light Plant (City)
 MACKINAW—Mackinaw El. Lt. Plant.
 MACOMB—Macomb El. Lt. & Gas Co.
 MARENGO—City Light & Water Works (City)
 MARION—Marion Elec. Lt. & St. Ry. Co.
 MAROA—Maroa Elec. Lt. Co.
 MARSEILLES—Consolidated Wtr. & Lt. Co.
 MARSHALL—Marshall Electric Lt. Plant (City)
 MASCOUTAH—Mascoctah Elec. Light & Teleph.
 MASON CITY—Abbott, A. E. Co.
 MATTOON—Mattoon City Elec. Lt. Plant (City)
 Mattoon Ht. Lt. & Power Co.
 MAYWOOD—North Shore El. Co.
 MEDORA—Medora El. Lt. Plant.
 MELROSE PARK—North Shore El. Co.
 MENDOTA—Mendota Light & Heat Co.
 MEREDOSIA—Skinner, Chester M.
 METROPOLIS—City Elec. Lt. Plant (City)
 MILFORD—Milford Elec. Lt., Power & Trans.
 MILLSTADT—City Elec. Lt. Plant (City) Co.
 MINONK—Minonk Electric Light & Power Co.
 MOLINE—People's Power Co.
 MOMENCE—Momence E. L. Co.

MONMOUTH—Monmouth Gas & El. Co.
 MONTICELLO—Monticello Electric Light Co.
 MORGAN PARK—Village Elec. Lt. Plant (Village)
 MORRIS—Fields Electric Light Co.
 MORRISON—Morrison Gas & E. L. Co.
 MORRISONVILLE—Morrisonville El. Co.
 MORTON—Beyer Bros. & Co.
 MOUND CITY—Mound City Water, Lt., Power,
 Heat & Mfg. Co.
 MOUNT CARMEL—Mt. Carmel Lt. & Water Co.
 New Electric Co.
 MOUNT CARROLL—Mount Carroll Elec. Lt. & Power Co.
 MOUNT OLIVE—Village Elec. Lt. Plant (Village)
 MOUNT PULASKI—West & Veall.
 MOUNT STERLING—Mount Sterling E. L. & Power Co.
 MOUNT VERNON—Citizens' Gas, Electric & Heating Co.
 MOVEAQUA—Moveaqua Elec. Lt. Co.
 MURPHYSBORO—Murphysboro Water, E. & Gaslight Co.
 NASHVILLE—Nashville Electric Light Co.
 NEW ATHENS—New Athens Elec. Lt. Plant
 NEWTON—City Elec. Lt. Plant (City)
 NOKOMIS—Nokomis Elec. Lt. & Power Co.
 NORMAL—Bloomington & Normal Ry. El. & Nunda—Union Lt. & Phone Co. Htg. Co.
 OAKLAND—Hardin, J. W.
 OAK PARK—Chicago Suburban Wtr. & Lt. Co.
 Cicero Lt., Ht. & Pwr. Co.
 Oak Park Yarnan Co.
 O'FALLON—O'Fallon Elec. P., Heat & Water Co.
 OHIO—El. Lt. Plant.
 OLNEY—Olney Electric Light & Power Co.
 ONARGA—(See Gilman, Ill.)
 OREGON—Oregon Elec. Lt. & Power Co.
 OTTAWA—Northern Illinois Trac. Co.
 PANA—Pana El. Lt. Plant.
 PARIS—City Electric Light & Wtr. Wks. (City)
 City Gas & Elec. Co.
 PARK RIDGE—North Shore El. Co. (I. Schis-paxton—Paxton Electric Co. sel. owner)
 PECATONICA—Pecatonica El. Lt. Plant
 PEKIN—Citizens' Gas & Electric Co.
 PEORIA—Peoria Gas & Electric Co.
 PEOTONE—Peotone El. Lt. Co.
 PERU—Peru City Elec. Lt. Plant (City)
 PETERSBURG—Abbott Bros.
 PINCKNEYVILLE—Pinckney Elec. Light Co.
 PIPER CITY—Piper City El. Lt. & Pwr. Plant.
 PITTSFIELD—Pittsfield Elec. Light & Power
 PLANO—Plano Ht., Lt. & Power Co. Co.
 PLYMOUTH—Holmes, Oscar
 POLO—Polo Elec. Light Co. (M. Snyder, owner)
 PONTIAC—Pontiac Light & Water Co.
 POTOMAC—Potomac El. Plant
 PRINCETON—Princeton El. Lt. Plant
 QUINCY—Quincy Gas & Electric Co.
 The Independent Lt. & Pwr. Co.
 RANTOUL—City Elec. Lt. & Water Wks.
 RAYMOND—Hillsboro Lt. & Pwr. Co.
 REDBUD—Red Bud El. Lt. Plant
 RIDGE FARM—Ridge Farm Electric Light,
 Heat & Power Co.
 RIDGELY—(See Springfield)
 RIVER FOREST—(See Maywood)
 ROBINSON—Robinson Water, Light & Heat Co.
 ROCHELLE—City Elec. Lt. Plant (City)
 ROCK FALLS—City Elec. Lt. Plant (City)
 ROCKFORD—Central Heat & Power Co.
 Rockford Edison Co.
 ROCK ISLAND—People's Power Co.
 ROODHOUSE—Roodhouse Elec. Light Plant
 ROSEVILLE—Roseville Ltg. & Htg. Co.
 ROSSVILLE—Rossville El. Lt. Plant
 RUSHVILLE—Rushville E. L. Co.
 RUTLAND—Webber, J. S.
 SALEM—Salem El. Lt. Plant (City)
 ST. ANNE—St. Anne El. Lt. Plant
 ST. CHARLES—City Elec. Light Plant (City)
 ST. BLOM—P. M. Johnson El. Lt. Co.
 SANDWICH—City El. Lt. & Wtr. Wks. (City)
 SAVANNA—Pulford Elec. Lt. Co.
 SHAWNEETOWN—Shawneetown Elec. Co.
 SHEFFIELD—Sheffield Elec. Lt. Co.
 SHELBYVILLE—City El. Lt. Plant (City)
 SHELTON—Sheldon Electric Light, Pwr. & Htg. Co.
 SHERRARD—Sherrard El. Lt. Plant (City)
 SIDELL—Sidell Elec. Lt., Cold Storage & Ice
 SPARTA—Sparta Electric & Gas Co. Co.
 Sparta Electric Light Plant
 SPRINGFIELD—Springfield Lt., Ht. & Pwr. Co.
 SPRING VALLEY—Spring Valley Elec. Lt. Co.
 STAUNTON—City Elec. Lt. Plant (City)
 STERLING—Sterling Gas & Electric Lt. Co.
 STREATOR—Illinois Lt. & Trac. Co.
 STRONGHURST—Lt. Plant.
 SULLIVAN—Sullivan Elec. Co.
 Sullivan City Lt. & Wtr. Wks. (City)
 SYCAMORE—DeKalb-Sycamore El. Co.
 TABLE GROVE—Table Grove Elec. Lt. Plant
 TAMPICO—West, De Witt (owner) (City)
 TAYLORVILLE—Taylorville Gas & Elec. Co.
 TOLUCA—Toluca El. Lt. & Gas Co.
 TOULON—Toulon Electric Lt. & Power Co.
 TREMONT—El. Lt. & Pwr. Co.
 TRENTON—City El. Lt. Plant (City)

TROY—Municipal El. Lt. Plant
 TUSCOLA—Tuscola Wtr. & Lt. Co.
 UPPER ALTON—(See Alton)
 URBANA—The Urbana Lt., Ht. & Pwr. Co.
 UTICA—Grove, H. P.
 VANDALIA—Vandalia El. Lt. Plant
 VENICE—Granite City-Venice El. Co.
 VERMONT—Village El. Lt. Plant (City)
 VIENNA—McCartney, Mrs. I. H.
 VIRGINIA—Virginia Elec. Light Co.
 WALNUT—Walnut Elec. Lt. Co.
 WARSAW—Hillman, E. B.
 WASHINGTON—Eagle Electric Wks.
 WATERLOO—Water Wtr. & Lt. Plant (city)
 WATSEKA—Watseka Electric Light & Heat-
 ing Co.
 WAUKEGAN—North Shore El. Co. (See Evans-ton)
 WAVERLY—Waverly Elec. Lt. & P. Co.
 WENONA—Wenona Lt. & Power Co.
 WEST CHICAGO—Dempsey, Andrew
 WESTVILLE—Westville El. Lt. Co.
 WHEATON—El. Lt. Plant (City)
 WHITE HALL—White Hall Elec. Co.
 WILMETTE—North Shore El. Co. (See Evans-ton)
 WILMINGTON—Courval, Ray & Co.
 WINNETKA—Village El. Lt. Plant (City)
 WINCHESTER—Winchester Elec. Lt. Co.
 WOODHULL—Woodhull Electric Light Co.
 WOODSTOCK—City Elec. Lt. Plant
 WYOMING—Hillman, E. B. (Owner)
 ZION CITY—Zion El. & Pwr. Dept.

INDIANA

ALBANY—Albany Water & Lt. Co.
 ALEXANDRIA—Alexandria Elec. Lt. & P. Co.
 ANDERSON—City Elec. Lt. & Pwr. Plant
 (Municipal)
 ANGOLA—Angola Ry. & Pwr. Co.
 ARCADIA—Arcadia El. Lt. Plant
 ARGOS—City El. Plant (City)
 ASHLEY—Ashley El. Lt. Plant (City)
 ATTICA—City El. Lt. & Wtr. Plant (City)
 AUBURN—Auburn Water & Elec. Lt. Plant
 (City)
 AURORA—Aurora Gas Lt., Coal & Coke Co.
 BEDFORD—Bedford Heat, Lt. & Pwr. Co.
 BLOOMFIELD—Bloomfield, Lt. & Wtr. Co.
 BLOOMINGTON—People's Gas, Electric & Heating Co.
 BLUFFTON—City El. Lt. & Pwr. Plant (City)
 BOONVILLE—Boonville E. L. & Power Co.
 BOSWELL—Boswell El. Lt. & Wtr. Wks. Co.
 BRAZIL—Brazil El. Co.
 Terre Haute Trac. & Lt. Co.
 BREMEN—Bremen Elec. Lt. Plant (City)
 BROOKVILLE—Brookville Electric Co.
 BUTLER—Butler El. Lt. & Wtr. Wks. (City)
 CAMBRIDGE CITY—City El. Lt. Plant (City)
 CANNELTON—Cannelton El. Lt., Heat & Power
 CAYUGA—Cayuga El. Co. Plant
 CHRISNEY—Chrisney El. Lt. Co.
 CHURUBUSCO—City Elec. Lt. Plant
 CICEBO—El. Lt. Plant
 CLAY CITY—Clay City Elec. Lt. & Pwr. Co.
 CLINTON—Clinton E. L. & Power Co.
 COLUMBIA CITY—City El. Lt. Plant (City)
 COLUMBUS—City Electric Light Plant (City)
 Columbus St. Ry. & Lt. Co.
 CONNERSVILLE—Connorsville Lt., Ht. & Pwr.
 CONVERSE—Converse Elec. Co. Co.
 CORYDON—Corydon Electric Light & Power
 Co.
 COVINGTON—Covington Lt. & Wtr. Co.
 CRAWFORDSVILLE—Crawfordsville E. Lt. & Pwr. Co. (City)
 CROWN POINT—Crown Point Elec. Co.
 DANVILLE—Danville Elec. Lt. Co.
 DECATUR—Decatur City Lt. Plant (City)
 DELPHI—Carroll Electric Light & Power Co.
 DUNKIRK—Dunkirk Ltg. Co.
 EAST CHICAGO—East Chicago Wtr. & Lt. Co.
 (City owns plant)
 EDINBURG—Edinburg El., Lt. & Wtr. Plant
 (City)
 ELKHART—Home Elec. Co. (City)
 ELWOOD—Elwood Elec. Lt. Co.
 EVANSVILLE—Evansville Gas & El. L. Co.
 FAIRMOUNT—Fairmount Lt. & Pwr. Co.
 FERDINAND—Beckman & Dilger
 FORT WAYNE—Ft. Wayne & Wabash Valley
 S. F. Bowser & Co., Inc. Trac. Co.
 FRANKFORT—City Lt. & Pwr. Plant (City)
 FRANKLIN—Franklin Wtr., Lt. & Pwr. Co.
 FRANKTON—Frankton Wtr. & Lt. Co. (Munic)
 GARRETT—Garrett Lt. & Wtr. Dept. (City)
 GAS CITY—Gas City El. Lt. Plant (City)
 GOODLAND—Town Elec. Lt. Plant (City)
 GOSHEN—City Electric Light Plant (City)
 Hawks Elec. Co. The
 GOSPORT—Gosport Elec. Lt. Co.
 GREENCASTLE—Putnam Elec. Lt. Co.
 GREENFIELD—City El. Lt. Plant (City)
 GREENSBURG—Greensburg Gas & Elec. Co.
 GREENWOOD—Citizens Wtr. & Lt. Co.
 HAMMOND—City Elec. Lt. Plant (City)
 South Shore Gas & El. Co.

HARTFORD CITY—Hartford City Lt. & Power
 HOBART—Hobart El. Lt. Plant (City) Co.
 HUNTINGBURG—Messner Bros. Co.
 HUNTINGTON—City El. Lt. Plant (City)
 Huntington Light & Fuel Co.
 INDIANAPOLIS—Board of Commissioners, Mar-
 Central Power Co. ion County (City)
 Indianapolis Lt. & Ht. Co.
 Merchants' Heat & Light Co., 25 S. Penn
 People's Lt. & Heat Co.
 JASPER—Jasper Elec. Lt. Plant (City)
 JEFFERSONVILLE—United Gas & Electric Co.
 KENDALLVILLE—City Elec. Lt. Plant (City)
 KENTLAND—Rider, Geo. D.
 KNIGHTSTOWN—Knightstown Wtr. & Lt.
 Plant (City)
 KNOX—Knox Elec. Lt. & P. Co.
 KOKOMO—Kokomo, Marion & Western Tr. Co.
 LADOGA—Epperson, W. F. Circle Heading &
 LAFAYETTE—Lafayette Gas Co. Light Co.
 Merchants' Elec. Lt. Ass'n
 LA GRANGE—La Grange Elec. Lt. Co.
 LA PORTE—La Porte Electric Co.
 LAWRENCEBURG—Lawrenceburg El. Lt. Co.
 City El. Lt. Plant (City)
 LEBANON—Citizens' Elec. Light & Ice Co.
 LIGONIER—Ligonier Elec. Lt. Co.
 LINTON—City Ltg. Co. (City)
 LOGANSPOUT—City Elec. Lt. Plant (City)
 MADISON—Madison Gas & Elec. Lt. Co.
 Madison Lighting Co.
 Madison Lt. & Rwy. Co.
 MARION—Marion Light & Heat Co.
 MARTINSVILLE—City El. Lt. Plant (City)
 Martinsville Lt., Ht., Pwr. & Wtr. Co.
 MICHIGAN CITY—Michigan Lt. & Pwr. Co.
 Root Mfg. Co.
 MIDDLETOWN—Welsh, Anna D.
 MISHAWAKA—City Elec. Lt. Station (City)
 MITCHELL—Municipal Elec. Lt. Plant
 MONTICELLO—Monticello El. Lt. Plant
 MONTPELIER—Montpelier Lt. Plant (City)
 MOORESVILLE—Mooreville Pub. Service Co.
 MOUNT VERNON—Mt. Vernon El. Lt. & Pwr.
 MUNCIE—City El. Lt. Plant
 Muncie Electric Light Co.
 NAPPANEE—City Elec. Lt. Plant (City)
 NEW ALBANY—United Gas & Electric Co.
 NEWBURG—Lacke, Geo. F.
 NEW CASTLE—City Elec. Lt. Plant (City)
 New Castle Lt., Ht. & Pwr. Co.
 NEW HARMONY—New Harmony El. Lt. Plant
 (City)
 NOBLESVILLE—Noblesville Ht., Lt. & Pwr. Co.
 Noblesville Hydraulic Co.
 NORTH MANCHESTER—Browne Mills Elec. Co.
 NORTH VERNON—City Elec. Lt. & Wtr. Plant
 (Munic)
 OAKLAND CITY—Oakland City Elec. Lt. &
 Odon Lt. & Power Co. Power Co.
 OSGOOD—Osgood El. Lt. Plant (Munic)
 OXFORD—City Elec. Lt. Plant (City)
 PERU—Peru City Lighting Plant
 PETERSBURG—Petersburg El. Lt. & Power Co.
 PLAINFIELD—Plainfield El. Lt. Co.
 PLYMOUTH—Plymouth Elec. Lt. Co.
 PORTLAND—City El. Lt. Plant (City)
 PRINCETON—Princeton Lt. & Power Co.
 RENSSELAER—City Elec. Lt. Plant (City)
 RICHMOND—Richmond Lt., Ht. & Pwr. Co.
 Richmond City El., Lt. & Pwr. Plant (City)
 ROACHDALE—Roachdale Elec. Lt. & Power Co.
 ROCHESTER—Rochester El., Ht. & Pwr. Co.
 ROCKPORT—Rockport Water Works Co.
 ROCKVILLE—Rockville El. Lt. Wks. (City)
 RUSHVILLE—City Water & Light Plant
 SALEM—Salem E. L. & Artificial Ice Co.
 SEYMOUR—Seymour Gas & Electric Light Co.
 SHELBYVILLE—Citizens' Wtr. & Lt. Co. (City)
 SHERIDAN—City Elec. Lt. Plant
 SULLIVAN—Sullivan Heat, Light & Power Co.
 SOUTH BEND—South Bend Elec. Co.
 SPENCER—Spencer Elec. Lt. Co.
 SUMMITVILLE—Summitville Electric Light &
 Power Co. (City)
 TELL CITY—Tell City Electric Light Co.
 TERRE HAUTE—Terre Haute Trac. & Lt. Co.
 THORNTOWN—Thorntown Elec. Light Plant
 (City)
 TIPTON—Tipton Light, Heat & Power Co.
 UNION CITY—Union City Lighting Co.
 VALPARAISO—Valparaiso Light Co.
 VAN BUREN—Huntington Light & Fuel Co.
 (See Huntington)
 VEEDERSBURG—City Water & Light Plant
 (Municipal)
 VEVAY—City Elec. Lt. Plant (city)
 VINCENNES—City Elec. Lt. Co.
 Vincennes Electric Light & Power Co.
 WABASH—Wabash Water & Light Co.
 WARREN—Warren Elec. Lt. & Water Plant
 WARSAW—Warsaw Water Co. (City)
 WASHINGTON—Washington Light & Wtr. Co.
 WATERLOO—Waterloo Wtr. & Lt. Co.
 WAYNETOWN—Waynetown Electric Co.
 WHITING—South Shore Gas & Elec. Co.

WILLIAMSPORT—Williamsport Water & Light
 Plant (City)
 WINAMAC—Winamac Lt. & Wtr. Plant (City)
 WINCHESTER—Citizens' Water & Light Co.
 WORTHINGTON—Indiana Water & Light Co.

INDIAN TERRITORY.

ARDMORE—Ardmore Elec. Lt. & Pwr. Co.
 ATOKA—Atoka Light & Power Co.
 CHICKASHA—Chickasha Lt., Ht. & Pwr. Co.
 CLAREMORE—Claremore Elec. Lt. & Ice Co.
 DUNCAN—Duncan Lt. & Pwr. Co. (City)
 DURANT—Durant Elec. Light & Ice Co.
 MIAMI—Miami Artesian Water & Lt. Co.
 MUSCOGEE—Muscoogie Ice & Power Co.
 PAULS VALLEY—Washita Elec. Lt. & Gas Co.
 PURCELL—The Purcell Wtr. Co.
 SOUTH McALESTER—Choctaw Elec. Co.
 VINITA—Vinita Elec. Lt., Ice & Power Co.
 WAGONER—Wagoner Lt. & Power Co.

IOWA.

ACKLEY—Ackley Elec. Lt., Pwr. & Htg. Co.
 Town Elec. Lt. Plant
 ADEL—Adel Mill Co.
 AFTON—City Elec. Lt. Plant (J. J. Baxter,
 Lessee)
 ALBIA—Albia Elec. Lt. & Power Co.
 ALGONA—Algona Elec. Lt. & Wtr. Dept.
 AMES—City Elec. Lt. Plant (City) (City)
 ANAMOSA—Metcalf Elec. Lt. Co.
 ATLANTIC—Atlantic Elec. Lt. Co.
 AUDUBON—Audubon Elec. Lt. Plant
 AVOCA—Avoca Elec. Lt. & Power Co.
 BEDFORD—Bedford Lt., Ht. & Power Co.
 BELLE PLAINE—Belle Plaine Elec. Lt. Co.
 BELLEVUE—City Elec. Lt. Plant (City)
 BELMONT—Belmont Light & Fuel Co.
 BLOOMFIELD—City Elec. Lt. & Power Plant
 BOONE—Boone Electric Co. (city)
 BRITT—Britt Lt. & Power Co.
 BUFFALO CENTER—Buffalo Center Elec. Lt.
 Plant
 BURLINGTON—People's Gas & Elec. Co.
 Burlington Ry. & Light Co.
 CARROLL—Carroll Elec. Light & Power Co.
 CASCADE—Cascade Elec. Lt. & Power Co.
 CEDAR FALLS—Waterloo & Cedar Falls Gas
 & Elec. Co.
 CEDAR RAPIDS—Cedar Rapids & Iowa City
 Ry. & Lt. Co.
 CENTERVILLE—Centerville Lt. & Traction Co.
 CHARITON—City Elec. Lt. Plant (City)
 CHARLES CITY—Charles City Electric Light
 & Ht., Co.
 CHEROKEE—Cherokee E. L. Co.
 CLARINDA—Clarinda E. L. & Power Co.
 CLARION—City Elec. Lt. Plant (city)
 CLEAR LAKE—Clear Lake Elec. Lt. & P. Co.
 CLINTON—Clinton Gas Light & Coke Co.
 COLFAX—Colfax Elec. Lt. & P. Plant (City)
 COON RAPIDS—Coon Rapids Telephone & Elec.
 Co.
 CORNING—Corning Elec. Lt., Ht. & Pwr. Co.
 CORYDON—City Elec. Lt. Plant (Municipal)
 COUNCIL BLUFFS—Citizens' Gas & Electric
 CRESCO—Cresco Lt., Ht. & Pwr. Co. Co.
 CRESTON—Creston Gas & Electric Co.
 Creston Electric Ry., Light, Heat & Power
 DAVENPORT—Tri-City Ry. & Lt. Co. Co.
 People's Light Company.
 DECORAH—Decorah Elec. Light Co.
 DENISON—Denison Elec. Lt. & Pwr. Co.
 DES MOINES—Des Moines Edison Light Co.
 DE WITT—De Witt Elec. Lt. & P. Co.
 DUBUQUE—Union Elec. Co.
 DYERSVILLE—Dyersville Light & Water Co.
 EAGLE GROVE—Citizens' Lt., Ht. & Pwr. Co.
 EAST DUBUQUE—Municipal Elec. Plant.
 EDDYVILLE—Eddyville Elec. Lt. Co.
 ELDON—Eldon Elec. Lt. & Power Plant (City)
 ELDORA—Eldora Elec. Light Co.
 ELKADER—Schmidt Bros. & Co.
 EMMETTSBURG—City Elec. Lt. & Power Co.
 ESTHERVILLE—City Elec. Lt. Plant (City)
 FAIRFIELD—City Elec. Lt. Plant (City)
 Fairfield Gas & Electric Co.
 FARMINGTON—City Elec. Lt. Plant (City)
 FOREST CITY—Forest City Elec. Lt. & Power
 Co.
 FORT DODGE—Fort Dodge Elec. Lt. & P. Co.
 FORT MADISON—Atlee, S. & J. C.
 FARNER—Enterprise Elec. Lt., Ht., & Pwr.
 Co.
 GLENWOOD—Glenwood Elec. Lt. & Power Co.
 GRAND JUNCTION—Grand Junction Elec. Lt.
 & Power Co.
 GREENE—Greene Elec. Lt. & Power Co.
 GREENFIELD—City Elec. Lt. Plant (City)
 GRINNELL—Grinnell Electric & Heating
 GRUNDY CENTER—Grundy Center Elec. Lt. Co.
 GUTHRIE CENTER—Guthrie Center Elec. Lt.
 GUTTENBERG—Home Elec. Co. Co.

HAMBURG—Hamburg Elec. Lt. Co.
 HAMPTON—Hampton Elec. Lt. & Power Co.
 HARLAN—City Elec. Lt. Plant (City)
 HAWARDEN—Hawarden Lt. & W. W. (City)
 HOPKINTON—Milroy, Peter & Son (Owner)
 HUMBOLDT—Humboldt Elec. Light & Power
 IDA GROVE—Ida Grove Elec. Co. Co.
 INDEPENDENCE—Independence Water &
 Electric Light Plant (City)
 INDIANOLA—City Ltg. Plant
 IOWA CITY—Iowa City Elec. Light Co.
 IOWA FALLS—The Petersen Ht., Lt. & Pwr.
 Co.
 JEFFERSON—Jefferson Lt., Heat, P. & Water
 Co.
 KEOKUK—Keokuk Elec. Ry. & Power Co.
 KNOXVILLE—Knoxville Elec. Co.
 LAKE CITY—Lake City Elec. Co.
 LAKE MILLS—Conley, J. B. (Owner)
 LANSING—Lansing Elec. Lt. Co.
 LAPORTE CITY—LaPorte Public Utility Co.
 LE MARS—Le Mars City Water & L. Co.
 LEON—Leon Elec. Light, Heat & Power Co.
 LISBON—City Electric Lt. Plant (City)
 LOGAN—Logan Electric Light Co.
 LYONS—City of Lyons owns the plant
 MCGREGOR—McGregor Elec. Lt. & Lumber Co.
 MALVERN—Malvern L. & Power Co.
 MANCHESTER—Hoag, E. W.
 Manchester Lt., Ht. & Pwr. Co.
 MANNING—Manning Electric Light Co.
 MANSON—Manson Elec. Lt. Co.
 MAQUOKETA—Barnes Elec. Lt. & P. Co.
 MARENGO—Marengo Elec. Lt. & P. Co.
 MARION—Iowa Light, Heat & Power Co.
 Marion Light, Heat & Power Co.
 MARSHALLTOWN—City Elec. Lt. Plant.
 Marshalltown Lt., Power & Ry. Co.
 MASON CITY—Brice Gas & Electric Co.
 MISSOURI VALLEY—Mo. Valley E. L. Co.
 MONTEZUMA—Montezuma Elec. Light & Power
 MONTICELLO—Monticello Electric Co. Co.
 MOUNT PLEASANT—City El. Lt. Plant (City)
 MOUNT VERNON—Mt., Vernon Elec. Lt. Co.
 MUSCATINE—Citizens' Ry. & Light Co.
 NASHUA—Hoyer, G. C.
 NEVADA—Nevada Electric Co.
 NEW HAMPTON—City El. Plant (city).
 NEW LONDON—New London El. Lt. Plant
 (City)
 NEW SHARON—New Sharon Elec. Co.
 NEWTON—City of Newton owns the plant
 NORA-SPRINGS—Electric Light & Mill Co.
 OELWEIN—Oelwein Lt., Heat & Power Co.
 ONAWA—Onawa El. Light Plant (city).
 ORANGE CITY—Orange City Elec. Lt. Co.
 OSAGE—Osage E. L., Heat & Power Co.
 OSCEOLA—Osceola Elec. Light, Ht. & Pwr. Co.
 OSKAHOOSA—Oskaloosa Trac. & Lt. Co.
 OTTUMWA—Ottumwa Traction & Light Co.
 PANORA—Panora Elec. Lt. & P. Co.
 PARKERSBURG—Parkersburg Electric Light,
 Heat & Power Co. Co.
 PELLA—Buwalda Bros. Electric Light & Power
 Co.
 PERRY—Perry Elec. Lt., P. & Heat'g Co.
 RED OAK—Red Oak Elec. Co.
 ROCK RAPIDS—Rock Rapids Elec. Lt. Plant
 (City)
 ROCKWELL CITY—Rockwell City Elec. Lt. &
 P. Co. P. Co.
 SANBORN—Sanborn Electric Light Co.
 SEYMOUR—Town El. Lt. Plant (city).
 SHENANDOAH—The Artificial Ice, Pwr., Ht.
 & Lt. Co.
 SIGOURNEY—Sigourney Elec. Lt. & P. Co.
 SIOUX CITY—Hawkeye Elec. Co.
 Sioux City Gas & Elec. Co.
 Sioux City Service Co.
 SIOUX RAPIDS—Sioux Rapids Elec. Lt. Plant
 (city)
 SPENCER—Spencer Lt. & Water Works
 SPIRIT LAKE—Spirit Lake Lt. & Pwr. Plant
 (city)
 STORM LAKE—Storm Lake E. L. & Power Co.
 STORY CITY—Story City Electric Light &
 STUART—City owns the plant Power Co.
 TAMA—(See Toledo).
 TIPTON—Tipton Light & Heating Co.
 TOLEDO—Tama & Toledo Elec. Ry. & Lt. Co.
 TRAER—Traer Elec. Co. (F. L. White, Owner)
 VALLEY JUNCTION—The New Valley Water &
 VILLISCA—Villisca Elec. Co. Lt. Co.
 VINTON—City El. Lt. & Pwr. Plant.
 WAPELLO—Wapello Elec. Lt. & Pwr. Co.
 WASHINGTON—Iowa Gas & El. Co.
 Washington City Wtr. & Lt. Plant (city).
 WATERLOO—Citizens' Gas & El. Lt. Co. of
 Waterloo & Cedar Falls, Ia.
 City Elec. Lt. Plant (city).
 WAUKON—Waukon Elec. Lt. Co.
 WAVERLY—Healey Elec. Lt. Co.
 WEBSTER CITY—Webster City E. L. & Water
 Works (munic.)

WEST BRANCH—West Branch Elec. Light Co.
 WEST UNION—Neff Bros.
 WILAT CHER—What Cheer E. L. & Pwr. Co.
 WILTON JUNCTION—City El. Lt. & Wtr. Plant (city)
 WINTERSET—Town El. Lt. Plant (city)
 WOODBINE—Woodbine Light & Heating Co.
 WYOMING—Zinn El. Lt. & Pwr. Co., Oxford Mills, Ia.

KANSAS.

ABILENE—Brown, Jacob
 ANTHONY—Anthony Elec. Light & Power Co.
 ARGENTINE—The Standard El. Light Co.
 ARKANSAS CITY—Arkansas City Gas & Electric Co.
 ATCHISON—Atchison Ry., Light & Water Co.
 BAXTER SPRINGS—The Baxter Springs El. Co.
 BELOIT—Beloit Light & Water Co.
 BURLINGAME—City El. Lt. Plant (city).
 BURLINGTON—Burlington Elec. Lt. & Pwr. Co.
 CHANUTE—Chanute El. Light Plant (city).
 CHEROKEE—Cherokee Mill & Elev. Co.
 CHERRYVALE—Cherryvale El. Lt. & Pwr. Co.
 CHETOPA—City El. Lt. & Water Works (city).
 CLAY CENTER—Clay Center Lt. & Pwr. Co.
 COLUMBUS—Columbus Elec. Co.
 CONCORDIA—Concordia Elec. Lt. Co.
 COUNCIL GROVE—The Council Grove El. Lt. & Pwr. Co.

DODGE CITY—Midland Wtr., Lt. & Ice Co.
 ELDORADO—Eldorado Elec. & Refrigerator Co.
 ELLSWORTH—The Peo. El. Lt. & Pwr. Plant.
 EMPIRE CITY—Galena Lt. & Power Co.
 EMPORIA—Emporia Elec. Lt. Plant (city).
 ENTERPRISE—Enterprise El. Plant (city).
 EUREKA—Eureka El. Lt. Plant.
 FORT SCOTT—Fort Scott Gas & El. Co.
 GALENA—Galena Light & Power Co.
 GARDEN CITY—Garden City Elec. Co.
 GARNETT—Garnett Elec. Lt. Co.
 GIRARD—City El. Lt. & Wtr. Works (city).
 GREAT BEND—The Great Bend Elec. Co.
 HARPER—City El. Lt. Plant (city).
 HAYS CITY—Hays City El. Lt. & Pwr. Co.
 HERINGTON—City of Herington Lt., Pwr. & Water Plant

HIAWATHA—City Elec. Lt. Plant (city).
 Hiawatha E. L. Co.
 HOLT—Holt Elec. Co.
 HORTON—Horton Water & Lt. Co.
 HUTCHINSON—People's Water Light & Power Co. of Hutchinson

The Water, Light, Gas & Power Co.
 IOLA—City Lt. & Wtr. Wks (city).
 JUNCTION CITY—Elec. Ry. Lt. & Ice Co.
 KANSAS CITY—Consolidated E. L. & Power Co.
 KINGMAN—The Kingman Lt. & Pwr. Co.
 KINSLEY—Kinsley Light & Power Co.
 LARNED—Larned Electric Lt. Co.
 LAWRENCE—Lawrence El. Lt. Co.
 LEAVENWORTH—United Gas & Elec. Co.
 LINDSBURG—Lindsborg Wtr. & El. Lt. Plant
 LYONS—Lyons Elec. & Mfg. Co. (city)
 McPHERSON—McPherson Wtr. & Elec. Wks.
 MANIATTAN—Manhattan Ice, Lt. & Pwr. Co.
 MARION—Marion Water, Elec. Lt., Land & Power Co.
 MARYSVILLE—Marysville Light, Heat & Power
 MINNEAPOLIS—Minneapolis Water Co. Co.
 NEWTON—The Gas & Elec. Co.
 Atchison, Topeka & Santa Fe R. R.
 NORTON—Norton Lt., Ice & Cold Storage Co.
 NORTONVILLE—Nortonville El. Lt., Pwr. & Heating Plant

OLATHE—Morrison, B. C. (owner)
 OSAGE CITY—Osage City Elec. Light Plant (city)

OSAWATOMIE—Osawatomic Lt. & Pwr. Co.
 OSWEGO—Oswego Elec. Light Co.
 OTTAWA—Ottawa Water Works & Light Co.
 PARSONS—Parsons Elec. Light & Power Co.
 PITTSBURG—Pittsburg Ry. & Lt. Co.
 The Home Lt., Ht. & Pwr. Co.
 SABETHA—City Elec. Light Plant (City)
 SALINA—People's Light, Ht. & Pwr. Co.
 STERLING—Morris Elec. Works.
 STOCKTON—City Elec. Lt. Plant.
 TOPEKA—City of Topeka El. Lt. Plant (munic.)
 Edison Elec. Illg. Co.
 VALLEY FALLS—Zimmerman Lt. & Pwr. Co.
 WANEGU—City Wtr. & Lt. Plant (city).
 WEIR CITY—Weir City Lt. & Wtr. Co.
 WELLINGTON—City El. Lt. Plant (city).
 WICHITA—Wichita Gas, Elec. Lt. & Pwr. Co.
 Wichita R. R. & Light Co.
 WINFIELD—Municipal Light & Power Plant

KENTUCKY.

ASHLAND—Camden Interstate Ry. Co.
 AUGUSTA—Augusta El. Lt. Plant (city).
 BARBOURSVILLE—Barbooursville El. Lt., Ht. & Pwr. Co.
 BARDSTOWN—City Elec. Lt. Plant (city).
 BARDWELL—Citizens' Mill, Elevator, Lt. & Power Co.

BEAVER-LAM—Kentucky Lt. & Pwr. Co.
 BELLEVUE—Cincinnati, Newport & Covington Lt. & Trac. Co.
 BOWLING GREEN—Bowling Green Gas Lt. Co.
 City Elec. Light Plant (munic.)
 BURNSIDE—Burnside Elec. Lt. & Power Co.
 CARLISLE—Carlisle Elec. Lt. & Pwr. Co.
 CARROLLTON—City El. Lt. Plant.
 GATLETTSBURG—Carpenter, E. L. & Power Co.
 CENTRAL CITY—Central City Lt. & Pwr. Co.
 CLINTON—Clinton Wtr. & Lt. Co.
 CORBIN—The Horne Elec. Lt. Co.
 COVINGTON—Cincinnati, Newport & Covington Lt. & Trac. Co.

CYNTHIANA—Cynthiana Elec. Lt. Co.
 DAYTON—Cincinnati, Newport & Covington Lt. & Trac. Co. (See Covington)
 DANVILLE—Danville Lt., Pwr. & Trac. Co.
 EARLINGTON—St. Bernard Mining Co.
 ELIZABETHTOWN—Elizabethtown Elec. Lt. Co.
 FLEMINGSBURG—Henderson & O'Bannon
 FRANKFORT—Capital Gas & E. L. Co.
 FRANKLIN—Franklin Electric Co.
 FULTON—Fulton Elec. Lt. & Power Co.
 GEORGETOWN—Georgetown Water, Gas, Electric & Power Co.

GLASGOW—Glasgow Elec. Light & Power Co.
 HARRODSBURG—Harrodsburg Electric Light Plant (City)
 HAWESVILLE—Hawesville Electric Light, Heat & Power Co.

HENDERSON—City Elec. Light Plant (City)
 HICKMAN—Village El. Lt. & Water Plant (City)
 HOPKINSVILLE—Hopkinsville Gas & Ltg. Co.
 KUTTAWA—Kuttawa Water & Light Co.
 LANCASTER—Lancaster Electric Plant.
 LAWRENCEBURG—Lawrenceburg El. Lt. Co.
 LEBANON—Lebanon Lt., Ice & Pow. Co.
 LEXINGTON—Lexington Ry. Co.
 LOUISVILLE—Louisville Lighting Co.

LUDDLOW—Kentucky Electric Co.
 MADISONVILLE—Bailey Light & Water Co.
 MARION—Marion Electric Light & Ice Co.
 MAYFIELD—Graves County Water & Lt. Co.
 MAYSVILLE—Maysville Gas Co.
 MIDDLESBORO—Middlesboro Electric Light, Heat & Power Co.

MORGANFIELD—Morganfield Elec. Lt. & P. Co.
 MOUNT STERLING—Mount Sterling Water, Lt. & Ice Co.

NEWPORT—Cincinnati, Newport & Covington Lt. & Trac. Co. (See Covington)
 NICHOLASVILLE—City El. Lt. Plant (City).
 OWENSBORO—Owensboro City El. Lt. Plant (City)

PADUCAH—City Elec. Lt. Plant (City)
 Paducah Light & Power Co.
 PARIS—Paris Electric Light Co.
 PINEVILLE—Pineville E. L. Co.
 PRINCETON—Princeton Light & Power Co.

PROVIDENCE—Providence El. Lt. Plant.
 RICHMOND—Richmond Elec. Lt. & Power Co.
 RUSSELVILLE—Russellville El. Lt. Plant (City).
 SHELBYVILLE—Shelbyville Water & Lt. Co.
 SOMERSET—Somerset Elec. Lt. Plant (City).
 Somerset Water, Light & Traction Co.

STANFORD—Stanford Water, Lt. & Ice Co.
 UNIONTOWN—Uniontown Elec. Lt. Co.
 VANCEBURG—Vanceburg Elec. Light, Heat & Power Co.

VERSAILLES—Versailles Elec. Light Co.
 WILLIAMSBURG—Williamsburg Elec. Lt. Co.
 WINCHESTER—Winchester Ry., Lt. & Ice Co.

LOUISIANA.

ABBEVILLE—Abbeville Lt., Pwr. & Wtr. Co.
 ALEXANDRIA—City Elec. Light Plant (City)
 ALGIERS—Algiers Water Works & El. Co.
 AMITE—Amity Light & Power Co.
 BATON ROUGE—Baton Rouge Elec. & Gas Co.
 COVINGTON—St. Tammany Ice & Mfg. Co., Ltd
 CROWLEY—Crowley Water Works & El. Light Plant (City)

DONALDSONVILLE—City Elec. Lt. Plant (City)
 FRANKLIN—City Elec. Light Plant (City)
 GRETTA—Jefferson Ice & Elec. Power Co.
 HAMMOND—Hammond Mineral Water Co., Ltd
 HOUMA—Houma Lighting & Ice Mfg. Co.
 JEANERETTE—Jeanerette Elec. Light Co.
 JENNINGS—Jennings Elec. Lt. & Power Co.
 LAFAYETTE—City Water Works & Elec. Light Plant (City)

LAKE CHARLES—Lake Charles Ice, Light & Water Works Co.
 LEESVILLE—Leesville Light & Water Works Co.
 MINDEN—Minden Elec. Light & Power Co.
 MONROE—City Water, Lt. & Trac. Dept. (City)
 MORGAN CITY—Morgan City Improvement Co.
 NATCHITOCHES—Natchitoches Elec. Light & Water Works (City)

NEW IBERIA—New Iberia Water Works & Elec. Light Plant (City)
 NEW ORLEANS—Algiers Water Works & Electric Co., 220 Elmira av.
 Edison Elec. Co., 317 Barronne
 N. O. Railway & Light Co.

OPELOUSAS—City Elec. Light & Water Works (City)
 PLAQUEMINE—Plaquemine El. Lt. & Power Co.
 RUSTON—City Elec. Light Plant (City)
 SHREVEPORT—Shreveport Gas, Elec. Light & Power Co.

MAINE.

AUBURN—Lewiston & Auburn Elec. Light Co.
 AUGUSTA—Kennebec Light & Heat Co.
 BANGOR—Bangor Ry. & Electric Co.
 Bodwell Water Power Co.
 City of Bangor Elec. Dept. (City)
 BAR HARBOR—Bar Harbor & Union River Power Co.

BATH—Sagadahoe Light & Power Co.
 BELFAST—Belfast Gas & Electric Co.
 BERWICK—United Gas & Electric Co.
 BIDDEFORD—York Light & Heat Co.
 BOOTHBAY HARBOR—Boothbay Harbor Light, Heat & Power Co.

BREWER—Public Works Co., Lighting Dept. (See Bangor) (Bangor Ry. & El. Co.)
 BRIDGTON—Bridgton Water & Elec. Co.
 BROWNVILLE—Brownville Elec. Light & Power Co.

BRUNSWICK—Brunswick El. Lt. & Power Co.
 BUCKSPORT—Bucksport Light & Power Co.
 CALAIS—St. Croix Gas Light Co.

CAMDEN—(See Rockland)
 CARIBOU—Caribou Water & Elec. Light Co.
 CHERRYFIELD—Cherryfield Elec. Light Co.
 DEERING—(See Portland)
 DEXTER—Dexter Electric Co.

DOVER—Dover & Foxcroft Elec. Lt. & Heat Co.
 EASTPORT—Eastport Lighting Co.
 ELLSWORTH—Bar Harbor & Union River Power Co.

FARMINGTON—Farmington Elec. Light Co.
 FORT FAIRFIELD—Stevens Electric Co.
 FOXCROFT—(See Dover)
 FREEPORT—Freeport Electric Light, Heat & Power Co.

FRYEBURG—Fryeburg Electric Light Co.
 GARDINER—(See Augusta)
 GORHAM—Westbrook Elec. Light & Power Co.
 GUILFORD—Piscataquis Woolen Co.

HALLOWELL—Kennebec Light & Heat Co. (See Augusta)
 HOULTON—Houlton Electric Co.
 Merritt, E. & Sons

KENNEBUNK—Town Elec. Light Plant (Munic.)
 KENNEBUNKPORT—Kennebunk Elec. Light Co.
 LEWISTON—City Elec. Light Plant (City)
 LIVERMORE FALLS—Livermore Falls Light & Power Co.

MACHIAS—Machias Elec. Light Co.
 MECHANIC FALLS—Mechanic Falls Water, Electric Light & Power Co.
 NEWPORT—Newport Light & Power Co.
 NORRIDGEWOCH—Skowhegan Elec. Light Co. (See Skowhegan)

NORWAY—Norway & Paris Street Ry. Co.
 OAKLAND—Messalonskee Electric Co.
 OLD ORCHARD—Old Orchard Elec. Light Co.
 OLD TOWN—Old Town Elec. Light Co.

ORONO—Oldtown Electric Co. (See Oldtown)
 PHILLIPS—Phillips Lumber & Electric Co.
 PITTSFIELD—Sebastiack Power Co.

PORTLAND—Consolidated El. Light Co. (Owner, Portland El. Co.)
 Portland Lighting & Power Co. (Owner, Portland Peaks Island Light Co.)
 PRESQUE ISLE—Presque Isle Elec. Light Co.

RANGELEY—Rangeley Elec. Lt. & Power Co.
 ROCKLAND—Rockland, Thomaston & Camden Street Ry. Co.

RUMFORD—Rumford Falls Light & Water Co.
 Rumford Power Co.

SACO—York Light & Heating Co. (See Biddeford)
 SANFORD—Sanford Light & Water Co.
 SKOWHEGAN—Skowhegan Elec. Light Co.
 SORRENTO—Sorrento Elec. Light Co.

SOUTH BERWICK—Berwick & Salmon Falls Electric Co.
 SOUTH PARIS—Oxford Light Co. (Norway)
 SOUTH PORTLAND—Consolidated Elec. Light

THOMASTON—(See Rockland) Co. (Portland)
 VALDOBORO—Valdoboro Water, Electric Light & Power Co.

WATERVILLE—Union Gas & Electric Co.
 Waterville & Fairfield Railway & Light Co.
 WESTBROOK—Westbrook Elec. Lt. & Power Co.

WINTHROP—Winthrop & Wayne Light & Power Co.
 WOODSFORDS STATION—Deering Elec. Lt. Co.
 YARMOUTH—Consolidated Elec. Light Co. (See Portland)

YORK—Agaminticus Light & Power Co.

MARYLAND.

ANNAPOLIS—Annapolis Gas & Elec. Lt. Co.
 BALTIMORE—Consolidated Gas El. Lt. & Pwr. Co.
 Baltimore County Wtr. & El. Co. Co.
 Maryland Telegraph & Telephone Co.
 Railway & Light Co. of America
 United El. Lt. & Pwr. Co.
 BELAIR—Belair Electric Co.

BRUNSWICK—Harper's Ferry El. Lt. & Pwr. Co.
 CHESTERTOWN—Chestertown Elec. Lt. Co. of
 CRISFIELD—Crisfield Ice Mfg. Co.
 CUMBERLAND—Cumberland City El. Lt. Plant
 Edison Electric Illg. Co. (City)
 EASTON—Easton Fuel & Electric Light Co.
 ELKTON—Elkton Elec. Lt. & Power Co.
 FREDERICK—City El. Plant
 Frederick El. Lt. & Power Co.
 FROSTBURG—Frostburg Illg. & Mfg. Co.
 HAGERSTOWN—Hagerstown Elec. Lt. Plant
 Hagerstown Railway Co. (City)
 HAVRE DE GRACE—Havre de Grace El. Co.
 LAUREL—Laurel City El. Light Plant
 LONACONING—Lonaconing El. Lt. & Power Co.
 MOUNT WASHINGTON—Mt. Washington Elec.
 Lt. & Power Co.

OAKLAND—Oakland Elec. Co.
 POCOMOKE—Stevenson El. Lt. Co.
 ROCKVILLE—City Elec. Lt. Plant
 SALISBURY—Salisbury Lt. & Heat & Power Co.
 SNOW HILL—Snow Hill Elec. Lt. & Power Co.
 WESTMINSTER—Carroll County Elec. Lt. &
 Power Co.

WILLIAMSPORT—Williamsport El. Lt. Plant
 (City)

MASSACHUSETTS.

ABINGTON—(See N Abington)
 ADAMS—North Adams Gas Lt. Co.
 AMESBURY—Elec. Lt., Heat & Power Co.
 AMHERST—Amherst Gas Co.
 ANDOVER—Andover Elec. Co.
 ATHOL—Athol Gas & Electric Light Co.
 ATTLEBORO—Attleboro Steam & Electric Co.
 AYER—Ayer El. Lt. Co.
 BELMONT—City El. Lt. Plant (City)
 BEVERLY—Beverly Gas & Electric Co.
 BILLERICA—BillERICA El. Co.
 BLACKSTONE—(See East Blackstone)
 BOSTON—Block Plant Elec. Lt. Co., 357 Wash.
 Brigham Electric Co., 161 High.
 Charlestown Gas & Elec. Co., Thompson sq
 Church Green Elec. Lt. & Power Co., 105
 Summer

Edison Elec. Illuminating Co., 3 Head pl
 Light, Heat & Power Corporation, 23 Central
 BRAINTREE—Braintree El. Lt. Plant (City)
 BRIDGEWATER—Bridgewater Elec. Co.
 BROCKTON—Edison Elec. Ill. Co. of Brockton
 BROOKLINE—Boston Consolidated Gas Co.
 CAMBRIDGE—Cambridge Elec. Lt. Co.
 CANTON—Blue Hill Elec. Co. (See Boston)
 CHELSEA—Chelsea Gas Light Co.
 CHESTER—Chester Electric Light Co.
 CHICOPEE—Municipal Elec. Light Plant
 CLINTON—Clinton Gas Light Co.
 COHASSET—Cohasset Elec. Co.
 CONCORD—City Elec. Lt. Plant (Municipal)
 COTTAGE CITY—Cottage City Gas & Elec. Lt.
 Co.

DALTON—The Edison El. Illg. Co. (Boston)
 DANVERS—Danvers Electric Light Plant (City)
 DEDHAM—The Edison El. Mfg. Co. (Boston)
 EAST BLACKSTONE—Blackstone Elec. Lt. Co.
 EAST BRAINTREE—City owns the plant
 EASTHAMPTON—Easthampton Gas Co.
 EAST WEYMOUTH—Weymouth Lt. & Power
 Co.

EVERETT—Madden El. Co. (See Madden)
 FAIRHAVEN—New Bedford Gas & Edison Lt.
 Co.
 FALL RIVER—Fall River Electric Light Co.,
 20 Hartwell
 FITCHBURG—Fitchburg Gas & Elec. Lt. Co.
 FOXBORO—Foxboro El. Co.
 FRAMINGHAM—The Edison El. Illg. Co. (Bos-
 ton)
 FRANKLIN—Union Elec. Lt. Co.
 GARDNER—Gardner Elec. Lt. Co.
 GLOUCESTER—Gloucester Electric Co.
 GRAFTON—Grafton Electric Co.

GREAT BARRINGTON—Great Barrington Elec-
 tric Light Co.
 GREENFIELD—Greenfield Electric Light &
 GROVELAND—(See Haverhill) Power Co.
 HARDWICK—Ware El. Co. (See Ware)
 HAVERHILL—Haverhill Electric Co.
 HINGHAM—Municipal Light Dept.
 HOLBROOK—Randolph & Holbrook El. Lt. Co.
 HOLLISTON—The Edison El. Illg. Co. (Boston)
 HOLYOKE—Holyoke Electric Light & Water
 Power Co.

Holyoke Gas & El. Dept. (City)
 HOUSATONIC—Great Barrington El. Lt. Co.
 (See Great Barrington)
 HUDSON—Town of Hudson Elec. Lt. & Power
 Dept. (City)

HULL—Village El. Lt. Plant (City)
 HUNTINGTON—Huntington El. Lt. Co.
 HYDE PARK—Hyde Park Elec. Lt. Co.
 LANCASTER—Clinton Gas Lt. Co. (See Clinton)
 LAWRENCE—Lawrence Gas Co.
 LEE—Lee Electric Co.
 LEICESTER—Rawson Lt. & Power Co.
 LENOX—Lenox Electric Co.

LEOMINSTER—Leomin'r Elec. Lt. & Pwr. Co.
 LEXINGTON—Lexington Gas & Electric Co.
 LINWOOD—(See N Uxbridge)
 LOWELL—Lowell Elec. Lt. Corp., 28 Bridge
 LYNN—Lynn Gas & Electric Co., 90 Exchange.
 MALDEN—Malden Electric Co.
 MANSFIELD—City Elec. Lt. Plant (City)
 MARBLEHEAD—Marblehead Gas & Elec. Lt.
 Co. (Town Owner)

MARLBORO—Marlboro Electric Co.
 MAYNARD—El. Lt. Plant
 MEDFORD—(See Malden)
 MEDFIELD—Medfield El. Lt. & Pwr. Co.
 MEDWAY—Medway El. Lt. & Pwr. Co.
 MELROSE—(See Malden)
 MIDDLEBORO—Middleboro Gas & Electric Lt.
 Plant (Town Owner)
 MILFORD—Milford Elec. Lt. & Pr. Co.
 MILLBURY—Millbury Electric Co.
 MILTON—The Edison El. Illg. Co. (Boston)
 MONSON—(See Palmer.)
 NAHANT—(See Lynn.)
 NANTASKET—Town of Hull Electric Light
 Dept. (Town)

NANTUCKET—Citizens' Gas., El. & Pwr. Co.
 NATICK—Edison Elec. Ill. Co.
 NEEDHAM—Edison El. Illg. Co. (Boston)
 NEW BEDFORD—New Bedford Gas & Edison
 Light Co.

NEWBURYPORT—Newburyport G. & E. Co.
 NEWTON—Newton & Watertown Gas Lt. Co.
 NORTH ABINGTON—Electric Light & Power
 Co. of North Abington & Rockland
 NORTH ADAMS—North Adams Gas Lt. Co.
 NORTHAMPTON—Northampton El. Lt. Co.
 NORTH ATTLEBORO—Municipal Electric Lt.
 Dept. (City)

NORTH GRAFTON—North Grafton El. Lt. Co.
 NORTH UXBRIDGE—(See Uxbridge).
 ORANGE—Orange Electric Light Co.
 OXFORD—Webster El. Co. (See Webster)
 PALMER—Central Mass. Electric Co.
 PEABODY—City Electric Light Plant (City)
 PITTSFIELD—Pittsfield Electric Co.
 PLYMOUTH—Plymouth Electric Light Co.
 PROVINCETOWN—The Cape Lt., Ht. & Pwr.
 Co.

QUINCY—Quincy Elec. Light & Power Co.
 RANDOLPH—Doughty, Chas. Co.
 READING—Reading Lt. & Power Station (City)
 REVERE—Suburban Gas & Electric Co.
 ROCKLAND—(See North Abington.)
 ROCKPORT—(See Gloucester.)
 SALEM—Salem Electric Lighting Co.
 SAUGUS—Saugus District of Lynn Gas &
 Electric Co.

SHARON—Medfield El. Lt. & Pwr. Co.
 SHELBOURNE FALLS—Sheibourne Falls Elec-
 tric Light & Power Co.
 SOUTH FRAMINGHAM—Edison El. Lt. Illg.
 Co.
 SOUTHBRIDGE—Southbridge Gas & Elec. Co.
 SOMERVILLE—Edison El. Illg. Co.
 SOUTH HADLEY FALLS—South Hadley Falls
 Electric Light Co.

SPENCER—Spencer Gas Co.
 SPRINGFIELD—United Electric Light Co., 135
 State

STONEHAM—The Edison El. Illg. Co. (Boston)
 STOUGHTON—Stoughton Gas & Electric Co.
 SUTTON—Grafton El. Co. (See Grafton)
 SWAMPSCOTT—(See Lynn)
 TAUNTON—Taunton Municipal Lighting Plant,
 12 Mechanic la.
 TOWNSEND—U. S. Adams El. Lt. Co.
 TURNERS FALLS—Franklin Elec. Light Co.
 Turners Falls Co.

UXBRIDGE—Uxbridge and North Uxbridge
 Electric Co.
 WAKEFIELD—Wakefield Municipal Lt. Plant
 WALPOLE—Midfield El. Lt. & Pwr. Co.
 WALTHAM—Waltham Gas Light Co.
 WARE—Ware Electric Co.
 WARREN—(See Palmer.)
 WATERTOWN—Newton & Watertown Gas Lt.
 Co. (See Newton.)

WEBSTER—Webster Electric Co.
 WELLESLEY—Town El. Lt. Plant (City)
 WESTBORO—Westboro Gas & Electric Co.
 WESTFIELD—Westfield Gas & Electric Plant
 WESTON—Weston Electric Light Co.
 WEST SPRINGFIELD—(See Springfield.)
 WEYMOUTH—Weymouth Lt. & Pwr. Co.
 WHITINSVILLE—(See Uxbridge.)
 WHITMAN—Edison El. Ill. Co. of Brockton
 WILLIAMSBURG—Mill River El. Lt. Co.
 WILLIAMSTOWN—Williamston Gas Co.
 WINCHENDON—Winchendon El. Lt. & Pwr.
 Co.

WINCHESTER—The Edison El. Illg. Co. (Bos-
 ton)

WINTHROP—Suburban Gas & El. Co. (See
 Revere.)
 WOBURN—The Edison El. Illg. Co. (Boston)
 WORCESTER—Worcester Electric Light Co., 66
 Faraday

MICHIGAN.

ADRIAN—Citizens' Electric Light & Power Co.
 ALBION—Albion Electric Light Co.
 ALLEGAN—Allegan Lt. & Pwr. Co.
 ALMA—Alma Electric Light & Power Co.
 ALPENA—Alpena Electric Light Co.
 Alpena Pwr. Co., Ltd.

ANN ARBOR—Washtenaw Lt. & Pwr. Co.
 AUSABLE—H. M. Lounds & Sons Co.
 BAD AXE—Village El. Lt. & Wtr. Plant (City)
 BANGOR—Bangor Lt. & Wtr. Plant (City)
 BARAGA—Elec. Lt. Dept. (Thos. Nester Est.)
 BATTLE CREEK—Battle Creek Electric Co.
 Citizens' Electric Co.
 BAY CITY—Bay City Trac. & El. Co.
 City Elec. Light Plant (City)
 BEAVERTON—Beaverton Illuminating Co.
 BELDING—Citizens' Light Co.
 Spencer Electric Light & Power Co.
 BELLE AIR—Municipal El. Lt. Plant
 Hydraulic Pwr. & Lt. Co.
 BENTON HARBOR—(See St. Joseph.)
 BESSEMER—Gogebic Electric Co.
 BIG RAPIDS—Donley W. E. Electric Light &
 Power Co.

BLISSFIELD—City Electric Light Plant
 BRIGHTON—Brighton Elec. Lt. & Power Co.
 BRONSON—Frederick, Wm. H. & Co.
 BROOKLYN—Green, Geo. E.
 BROWN CITY—Brown City El. Lt. Wks. (City)
 CADILLAC—Cadillac Wtr. & Lt. Co.
 CALUMET—(See Houghton)
 CARO—Caro Light & Power Co.
 CARSON CITY—Rockafellow Grain Co., Ltd.
 CASEVILLE—Caseville Electric Light Co.
 CASS CITY—City El. Lt. Plant
 CASSOPOLIS—Cassopolis Milling & Power Co.
 CENTRAL LAKE—Wallbrecht, A. F.
 CENTERVILLE—Centerville Water & Elec. Co.
 CHARLEVOIX—City Elec. Light Plant (City)
 CHARLOTTE—Charlotte General Electric Co.
 CHEBOYGAN—Cheboygan Electric Light &
 Power Co.

CHELSEA—Municipal Electric Light & Water-
 works Co.
 CHESANING—City Elec. Light Plant (City)
 CLARE—Clare Electric Light Co.
 CLINTON—City Electric Light Plant (City)
 COLDWATER—City Electric Light Plant
 CONSTANTINE—Constantine Hydraulic Co.
 CORUNNA—Shiawassee Lt. & Pwr. Co.
 CRYSTAL—Sanford, Otis A.
 CRYSTAL FALLS—Crystal Falls Lt. & Wtr.
 Wks. (City)

DETROIT—East Side Electric Co., 307
 Gratiot av
 Edison Illuminating Co., 22 Wash'n av
 Peninsular Electric Light Co., 22 Wash'n av
 National Gas, Lt. & Pwr. Co.
 Peninsular El. Lt. Co.
 Rochester Lt. & Pwr. Co.
 DOWAGIAC—Dowagiac Electric Light Dept.
 (Beckwith Est.)

City El. Lt. Plant (City)
 DUNDEE—Dundee Electric Light Co.
 DURAND—Village Elec. Lt. Plant (Village)
 EAST JORDAN—East Jordan Electric Light &
 EAST TAWAS—City owns the plant Power Co.
 EATON RAPIDS—Eaton Rapids Electric Light
 Plant (City)

ESCANABA—City Electric Light Plant (City)
 EVART—Village Elec. Lt. Plant (Village)
 FENNVILLE—Fennville Roller Mill Co.
 FENTON—Fenton Electric Light & Power Co.
 FLINT—People's Elec. Lt. & Power Co.
 FOWLERVILLE—Fowlerville Lighting Co.
 FRANKFORT—Frankfort Electric Light Co.
 FREMONT—Fremont Elec. Lt. Plant (City)
 GAYLORD—City Electric Light Plant (City)
 GLADSTONE—City Electric Light Plant (City)
 GLADWIN—Schulz & Prindle (Owners)
 GRAND HAVEN—City Elec. Lt. Plant (City)
 GRAND LEDGE—City Elec. Lt. Plant (City)
 GRAND RAPIDS—Edison Light Co.

Municipal Electric Light Plant
 GRAYLING—Grayling Electric Co.
 GREENVILLE—Greenville Elec. Light & Pwr.
 Co.
 HANCOCK—(See Houghton)
 HARBOR SPRINGS—Mason Electric Co.
 Municipal Electric Light Plant (Town)
 HART—Elec. Light & Waterworks (Town)
 Pere Marquette Pwr. Co.

HARTFORD—Anderson Bros.
 HASTINGS—Thornapple El. Co.
 HILLSDALE—City Elec. Light Plant (City)
 HOLLAND—City Elec. Light Plant (City)
 HOLLY—Holly Electric Light & Power Co.
 HOUGHTON—Houghton Co. El. Lt. Co.
 HOWELL—Howell Electric Light & Power Wks.
 HUDSON—Hudson Electric Light Co. (City)
 IMLAY CITY—Imlay City Electric Co.

IONIA—Ionia Electric Co.

IRON MOUNTAIN—Iron Mountain Electric Lt.
 & Power Co.
 IRONWOOD—Twin City General Electric Co.
 ISHPEMING—Marquette Co. Gas, Lt. & Tract.
 Co.

ITHACA—Ithaca Light & Power Plant (City)

JACKSON—Jackson Power Co.
 JONESVILLE—Jonesville Electric Light & Power Co. (City)
 KALAMAZOO—City Electric Light Plant (City)
 The Commonwealth Pwr. Co.
 KALKASKA—Kalkaska Lt. & Power Co.
 LAKE LINDEN—Houghton Co. El. Lt. Co.
 LANSING—City El. Lt. Plant (City)
 LA PEER—La Peer Electric Co.
 Schlegel's El. Lt. Plant.
 LESLIE—Leslie Electric Light & Power Co.
 LOWELL—City of Lowell Light & Power Plant
 LUDINGTON—Stearns' Lighting Co. (City)
 MACATAWA—Macatawa Park Co.
 MANCERONA—Mancelona Elec. Lt. & Pr. Co.
 MANISTEE—Buckley & Douglas Lumber Co.
 Manistee Gas & El. Co.
 MANISTIQUE—Manistique Light Co.
 MARINE CITY—Marine City Roller Mill Co.
 MARLETTE—Village Elec. Lt. Plant (Village)
 MARQUETTE—Light & Power Commission (City)
 MARSHALL—City Elec. Light Plant (City)
 MASON—Mason Water & Elec. Lt. Works (City)
 MENOMONEE—Menomonee Lt. & Traction Co.
 MIDLAND—Bristol Electric Light Co.
 MILAN—Lamkin W. P. (Owner)
 MILFORD—Milford Electric Light Co.
 MONROE—Monroe Electric Light Plant (City)
 MORRICE—Sutton & Mackey
 MOUNT CLEMENS—Mt. Clemens Electric Co.
 MOUNT PLEASANT—Mt. Pleasant Electric Co.
 MUNICING—El. Light & Power Co.
 NEGAUNEE—Negaugee El. Lt. Plant (city)
 The Grand Rapids-Muskegon Water Prov. Co.
 NEWBERRY—City El. Lt. Plant (city)
 NORWAY—City El. Lt. Plant (city)
 OTSEGO—Town Lt. Plant (city)
 ONTONAGON—Village Electric Light Plant
 OSCODA—Pioneer Electric Co. (H. M. Loud & Sons Lumber Co., Owners)
 OVID—Ovid Elec. Light & Waterworks (City)
 OWOSSO—Owosso & Corunna Electric Co.
 OXFORD—Village Elec. Light Plant (Village)
 PAW PAW—Village Elec. Light Plant (Village)
 PETOSKEY—City Elec. Light Plant (City)
 PLAINWELL—Eesley Ltg. Co.
 PONTIAC—Clinton River Power Co.
 Pontiac Standard Lighting Co.
 PORT HURON—Port Huron Lt. & Power Co.
 PORTLAND—Village Electric Light Plant (city)
 QUINCY—Village Lighting Plant (city)
 READING—Village Electric Light Plant (City)
 REED CITY—Reed City Electric Co.
 RIVER ROUGE—Town Electric Light Plant (City)
 ROCHESTER—Rochester Elec. Lt. & Pr. Co.
 ROCKFORD—Rogue River Electric Light Co.
 ROMEO—City Electric Light Plant (City)
 SAGINAW—Bartlett Illuminating Co.
 ST. CLAIR—St. Clair Electric Light Water Works (City)
 ST. IGNACE—City Electric Light Plant (City)
 ST. JOHNS—St. Johns Elec. Light Plant (City)
 ST. JOSEPH—Benton & St. Joseph Harbor Electric Railway & Light Co.
 City Electric Light Plant (City)
 ST. LOUIS—City Electric Light Plant (City)
 SAULT SAINTE MARIE—Edison Sault Elec. Mich., Lake Superior P. Co. Co.
 SHELBY—Village Elec. Light Plant (Village)
 SOUTH HAVEN—City Elec. Light Plant (City)
 SPRINGPORT—Town Electric Light Plant (Village)
 STANTON—Stanton Light & Water Plant (City)
 STURGEON—Sturgis Electric Light Plant (City)
 TECUMSEH—Tecumseh Electric Co.
 THREE OAKS—Village Electric Light Plant (Village)
 THREE RIVERS—Three Rivers Lt. & Pr. Co.
 Constantine Hydraulic Company.
 TRAVERSE CITY—Boardman River Electric Light & Power Co.
 UNION CITY—City Electric Light Plant (City)
 VASSAR—Town Electric Light Plant (City)
 VICKSBURG—City Electric Light Plant (City)
 WEST BRANCH—West Branch Electric Light
 WILLIAMSTON—Williamston Ilg. Co. Co.
 WYANDOTTE—Wyandotte Electric Light Plant
 YALE—Town Electric Plant (City)
 YPSILANTI—City Electric Light Plant (City)
 ZEELAND—City Water and Light Plant (City)

MINNESOTA.

ADA—Town Electric Plant (City)
 ADRIAN—Adrian Electric Light Plant (City)
 AITKEN—Village Electric Light Plant (City)
 Aitken P. and Light Co.
 ALBERT LEA—Albert Lee Lt. & Power Co.
 ALEXANDRIA—Alexandria Electric Light Plant (City)
 ANOKA—Anoka Water Works & Electric Light & Power Co.

APPLETON—City Electric Light and Water Plant (City)
 ARLINGTON—City Electric Light Plant
 AUSTIN—Austin Electric Plant (City)
 BEMIDJI—City Electric Light Plant (City)
 BLUE EARTH CITY—City Electric Light & Water Works
 BRAINERD—Brainerd Municipal Elec. Lt. Plant
 BRECKENRIDGE—Town Electric Light and Water Works (City)
 CANNON FALLS—Cannon Falls Electric Co.
 CHASKA—Village Electric Light Plant (City)
 CHATFIELD—Chatfield Elec. Lt. & Pr. Co.
 CLOQUET—Cloquet Electric Co.
 CROOKSTON—Crookston Water Works, Power & Light Co.
 DELANO—Delano Water & Electric Light Plant (City)
 DETROIT CITY—Detroit Light Plant (City)
 DULUTH—Duluth General Electric Co.
 Great Northern Power Co.
 EAGLE LAKE—Humiston, J. D.
 EAST GRAND FORKS—City Electric Light Plant (City)
 ELY—City Electric Light Plant (City)
 EVELETH—Northern Electric Company
 FAIRFAX—Nicholas, L. & Co.
 FAIRMONT—City Electric Plant (City)
 FARIBAULT—Faribault Consolidated Gas & Polar Star Electric Co. Electric Co.
 FERGUS FALLS—City Elec. Light Plant (City)
 Fergus Falls Water Power Co.
 FOSTON—City Electric Light & Water Works (City)
 FULDA—Village Elec. Light Plant (Village)
 GLENCOE—Le Vescont, A. T.
 GRACEVILLE—Village Elec. Lt. Plant (Village)
 GRANITE FALLS—Village Electric Light Plant (Village)
 HASTINGS—Hastings Elec. Lt. & Pr. Co.
 HENDERSON—Henderson Light & Water Works (Village)
 HIBBING—Municipal Light & Water Plant
 HUTCHINSON—Hutchinson Lighting & Mfg.
 JACKSON—City Electric Light Plant (City)
 KENYON—Kenyon Electric Co. Co.
 LAKE CITY—City Electric Light & Water Works (City)
 LANESBORO—Lanesboro Electric Light Co.
 LE ROY—Bosworth, E. S.
 LE SUER—City Electric Light & Water Works (City)
 LITCHFIELD—Village Elec. Lt. Plant (Village)
 LITTLE FALLS—Little Falls Elec. & Water Co.
 LONG PRAIRIE—Village Electric Light Plant (Village)
 LUVERNE—Village Elec. Lt. Plant (Village)
 MADISON—City Electric Light Plant
 MANKATO—Mankato Gas & Electric Light Co.
 MAPLETON—Mapleton Electric Light Co.
 MARSHALL—City Electric Light Plant (City)
 MELROSE—City Electric Light Plant (City)
 Melrose Milling Co.
 MINNEAPOLIS—Electrical Engineering Co.
 Minneapolis General Electric Co.
 MONTEVIDEO—Montevideo Electric Light & Power Co.
 MOORHEAD—Moorhead Electric Light & Water Works (City)
 MORA—Mora Electric Light Co.
 MORRIS—Morris Electric Light Co.
 NEW PRAGUE—City Electric Light Plant (City)
 NEW RICHLAND—Lea & Borge.
 NEW ULM—New Ulm Electric Light Co. (City)
 NORTH BRANCH—North Branch Milling Co.
 NORTHFIELD—Northfield Lt., Ht. & Pr. Co.
 ORTONVILLE—City Elec. Lt. Plant (City)
 OSAKIS—Osakis Milling Co.
 OWATONNA—Owatonna Gas, Elec. & Ht. Co.
 PARK RAPIDS—Mandigo, Geo. D.
 PAYNESVILLE—City Water and Light Plant (City)
 PIPESTONE—Pipestone Electric Light, Heat & Power Co.
 PRESTON—Preston Electric Light & Water Works (City)
 PRINCETON—Princeton El. Lt. Plant (City)
 RED LAKE FALLS—Red Lake Falls Electric Light Co.
 REDWING—Redwing Gas & Electric Co.
 REDWOOD FALLS—Burmester, A. C. (Owner)
 ROCHESTER—Rochester Elec. Lt. Plant (City)
 RUSH CITY—Rush City Electric Light Co.
 RUSHFORD—Town Electric Light Plant (City)
 Rushford Power Co.
 SACRED HEART—Farmers' Milling Co.
 ST. CLOUD—St. Cloud Public Service Co.
 ST. JAMES—Village Elec. Lt. Plant (Village)
 ST. PAUL—Manhattan Light Heat & Power Co.
 St. Paul Gas Light Co.
 ST. PETER—St. Peter Electric Light & Water Works (Village)
 SAUK CENTER—Central Minnesota Power & Milling Co.

SHAKOPEE—Shakopee Electric Light Plant (City)
 SHERBURNE—Sherburne Electric Light Co.
 SLEEPY EYE—Village Elec. Lt. Plant (Village)
 SPRINGFIELD—Village Elec. Lt. Plant (Village)
 SPRING VALLEY—Spring Valley Electric Light & Investment Co.
 STILLWATER—Stillwater Gas & Elec. Lt. Co.
 TOWER—Village El. Lt. Plant (City)
 TRACY—Village Elec. Light Plant (Village)
 TWO HARBORS—City Electric Light Plant (Village)
 VIRGINIA—Virginia Light & Water Co.
 WABASHA—Jones R. El. & Co.
 WADENA—Village Elec. Lt. Plant (Village)
 WASECA—Dept. of Elec. Lt. & Water Works (City)
 WELLS—Water & Elec. Lt. Works (Village)
 WEST DULUTH—West Duluth Electric Co.
 WHITE BEAR LAKE—White Bear Elec. Co.
 WILLMAR—Electric Lt. & Water Wks (Village)
 WINDOM—Water & Elec. Lt. Plant (City)
 WINNEBAGO CITY—Elec. Lt. and Water Plant (City)
 WINONA—Winona Railway & Light Co.
 WINTHROP—Village owns plant
 WORTHINGTON—City Electric Light Plant
 ZUMBROTA—Zumbrota Electric Light Co. (Village)

MISSISSIPPI.

ABERDEEN—City El. Lt. Plant (City)
 ACKERMAN—Ackerman Compress, Warehouse & Electric Light Co.
 BATESVILLE—Paola El. Lt. Co.
 BAY ST. LOUIS—Stokoe El. Lt. Plant.
 BILOXI—Gulfport & Mississippi Traction Co., Gulfport
 BOONEVILLE—Booneville Electric Light Co.
 BROOKHAVEN—Brookhaven El. Lt. Plant (City)
 CANTON—City Electric Light Plant (City)
 CLARKSDALE—Water & Lighting Plant (City)
 COLUMBUS—Columbus Light & Power Co.
 CORINTH—The Corinth El. Lt. & Pwr. Co.
 DURANT—City Electric Light Plant.
 ELLISVILLE—Town El. Lt. Plant.
 GREENVILLE—Delta El. & Mfg. Co.
 Greenville Light & Car Co.
 GREENWOOD—Greenwood Water & Light Plant (City)
 GRENADA—City Electric Light Plant
 HATTIESBURG—Hattiesburg Lt. & P. Co.
 HAZLEHURST—El. Lt. Plant (City)
 HOLLY SPRINGS—Town Wtr. & Lt. Plant
 JACKSON—Capital Light & Pwr. Co. (City)
 Jackson Electric Railway Light & Power Co.
 KOSCIUSKO—Kosciusko Electric Light Plant
 LAUREL—Laurel Investment Co. (Village)
 LUMBERTON—Camp & Hinton Co.
 MACOMB—Macomb City Elec. Lt. & Pr. Co.
 MACON—City Wtr. & Lt. Plant (City)
 Macon Ice, Light & Power Co.
 MERIDIAN—Meridian Lt. & Ry. Co.,
 MOSSPOINT—Pascagaula Str. R'y & Pwr. Co.
 NATCHEZ—So. Lt. & Trac. Co.
 OKOLONA—Okolona El. Lt. Plant (City)
 PASCAGAULA—Pascagaula Str. R'y & Pwr. Co.
 PORT GIBSON—Town Lt. & Wtr. Plant (City)
 STARKVILLE—El. Lt., Plant (City)
 TUNICA—Tunica Electric Light & Power Co.
 VICKSBURG—Vicksburg R. R. Pr. & Mfg. Co.
 WATER VALLEY—Municipal Electric Light Plant (City)
 WESSON—Wesson Ltg. & Pwr. Co.
 WEST POINT—City Ltd. Plant (City)
 WINONA—Winona Elec. Lt., Coal & Ice Co.
 YAZOO—Yazoo Improvement Co.

MISSOURI.

ALBANY—Albany Elec. Lt. Plant (Village)
 ARGENTINE—Kansas City El. Lt. Co. (Kansas)
 AURORA—Aurora Lt. & Ice Co. (City)
 BETHANY—Town Lt. & Wtr. Wks. (City)
 BLOOMFIELD—Bloomfield Elec. Lt., Ht. & P. Co.
 BOONVILLE—Boonville Elec. Lt. & Pr. Co.
 BOWLING GREEN—Ledford, N. H.
 BROOKFIELD—Brookfield Electric Light Co.
 BUTLER—Butler Water, Lt. & Power Plant (City)
 CALIFORNIA—California Elec. Lt. & Pr. Co.
 CAMERON—Cameron El. Lt. Plant (City)
 CANTON—Canton El. Lt. Plant (City)
 CAPE GIRARDEAU—Cape Girardeau Water Works & Electric Lt. Co.
 CARROLLTON—Lt. & Transit Co.
 CARTERVILLE—(See Joplin.)
 CARTHAGE—Carthage Light Plant (City)
 Empire El. Pwr. Co.
 CARUTHERSVILLE—Ice, Coal and Electric Lighting Co.

CENTRALIA—Centralia Electric Lt. & Pr. Plant
 CHARLESTON—Southeast Missouri Lt. & Power Co.
 CHILLICOTHE—People's Gas & Electric Co.
 CLINTON—Clinton Gas & Water Co.
 COLUMBIA—Columbia Water & Light Plant (City)
 DE SOTO—Consumers' Elec. Lt. & Pr. Co.
 DEXTER—Dexter City Electric Light Dept.
 EDGERTON—Thompson & Mays. (City)
 EDINA—Edina Electric Light & Pwr. Co.
 ELDORADO SPRINGS—Eldorado Springs Electric Lt., Pwr. & Ht. Co.
 EXCELSIOR SPRINGS—Excelsior Springs Gas & Lighting Co.
 FARMINGTON—Farmington El. Lt. & Ice Co.
 FAYETTE—City Elec. Light Plant (City)
 FREDERICKTOWN—Fredericktown Electric & Mfg. Co.
 FULTON—City Electric Light Plant (City)
 HAMILTON—Hamilton Electric Light Co. (F. Clark, Propr.)
 HANNIBAL—City of Hannibal Electric Light Plant
 HARRISONVILLE—Harrisonville Electric Light Plant (City)
 HERMANN—Hermann Electric Light Co.
 HIGGINSVILLE—Higginsville Water & Light Plant (City)
 HOLDEN—Holden Elec. Light Plant (City)
 INDEPENDENCE—Independence Lt. Plant (City)
 JEFFERSON CITY—Jefferson City Light, Heat & Power Co.
 JOPLIN—Consol. Lt., Pwr. & Ice Co. City El. Lt. Plant (City)
 KANSAS CITY—Kausas City Electric Light Co. So. Side El. Lt. & Pwr. Co.
 KENNETT—Rose, Philip L.
 KIRKSVILLE—Kirksville Electric Co.
 KIRKWOOD—Kirkwood Electric Lt. & Pr. Co.
 LA GRANGE—City Electric Light Plant (City)
 LAMAR—Lamar Water & Electric Light Co.
 LA PLATA—La Plata Electric Light Co.
 LAWSON—City Electric Light Plant (City)
 LEBANON—Lebanon Light & Water Works Plant (City)
 LEXINGTON—Lexington Electric Co.
 LIBERTY—Walker, W. B. (Owner)
 LOUISIANA—The Louisiana Gas & Electric Light Co.
 MACON—Macon Electric Light Plant (City)
 MALDEN—City Electric Light Plant (City)
 MARCELINE—Pierce, S. M.
 MARSHALL—Marshall Light, Heat & Pwr. Co.
 MARYVILLE—Maryville Light, Heat & Power Co.
 MEMPHIS—Memphis Electric Heat & Pr. Co.
 MEXICO—Mexico Elec. Lt., Ht. & Pr. Co.
 MILAN—City Electric Light Plant (City)
 MOBERLY—Moberly Gas & Electric Co.
 MONETT—Monett Elec. Lt., Pr. & Ice Co.
 MONROE CITY—Monroe City Electric Light Plant (City)
 MONTGOMERY CITY—Montgomery Electric Light Plant
 MOUND CITY—Mound City Electric Light & Power Co.
 NEOSHO—Neosho Electric Light Co.
 NEVADA—Missouri Water, Lt. & Traction Co.
 NEW MADRID—New Madrid Electric Light, Heat & Power Co.
 ODESSA—City Electric Light Plant (City)
 OREGON—City Water & Light Plant (City)
 PACIFIC—Pacific Electric Co.
 PALMYRA—Palmyra Light & Water Co.
 PARIS—Paris Electric Light & Water Works (City)
 PIERCE CITY—Pierce City Elec. Lt. Works (City)
 PLATTSBURG—Plattsburg Light & Power Co.
 PLEASANT HILL—The Hotel Light, Power & Water Co.
 POPLAR BLUFF—Poplar Bluff Light & Milling Co.
 PRINCETON—City Electric Light Plant (City)
 RICH HILL—Rich Hill Light Plant (City)
 RICHMOND—Richmond Electric Light Co.
 ROCKPORT—City Electric Light Plant (City)
 ROSEDALE—Kansas City Electric Light Co.
 ST. CHARLES—St. Charles City Electric Light Plant (City)
 St. Charles Electric Light & Power Co.
 ST. JOSEPH—Berry Electric & Mfg. Co. City Elec. Light Plant (City), 5th & Olive St. Joseph Ry., Lt., Heat & Power Co.
 ST. LOUIS—Carondelet Electric Light & Power Co., Kraus, near Water. Union Electric Light, Heat & Power Co., King Electric Co.
 Laclede Gas Light Co., 716 Locust.
 Laclede Power Co., 421 Olive.
 Missouri-Edison Electric Co. of St. Louis.
 Neighborhood Light, Power & Heating Co.

SALISBURY—City owns the plant
 SARCOXIE—Sarcoxie Elec. Lt. & Mill Co.
 SAVANNAH—City Electric Light Plant (City)
 SEDALIA—Business Men's Association's Electric Plant
 Sedalia Electric Light & Power Co.
 Sedalia Transit Co.
 Sedalia Water & Light Co.
 SHELBYNA—City Elec. Light Plant (City)
 SHELBYVILLE—City Electric Light Plant.
 SLATER—Town owns the plant
 SPRINGFIELD—Springfield Lighting Co.
 STANBERRY—Stanberry Electric Light Co.
 TARKIO—Tarkio Electric & Water Co.
 TRENTON—Trenton Gas Light & Power Co.
 TROY—Town Electric Plant (City)
 UNION—(See Washington, Mo.)
 UNIONVILLE—City Electric Light & Water Works (City)
 VANDALIA—Vandalia Electric Light Co.
 VERCAILLES—Town Electric Light Plant (City)
 WARRENSBURG—Magnolia Lt., Ht. & Pr. Co.
 WARRENTON—Warrenton Electric Co.
 WASHINGTON—Tibbe Electric Co.
 WEBB CITY—(See Joplin.)
 WEBSTER GROVE—Suburban Electric Light & Power Co.
 WELLSVILLE—Wellsville Electric Light Co.
 WEST PLAINS—West Plains Electric Light Plant (City)

MONTANA.

ANACONDA—Anaconda Electric Light Co.
 BIG TIMBER—Big Timber Light & Power Co.
 BILLINGS—Billings Water Power Co.
 BOZEMAN—Gallatin Lt., Pr. & Ry. Co.
 BUTTE—Butte Electric & Power Co. Montana Power Transmission Co.
 Phoenix Electric Co.
 DEER LODGE—Deer Lodge Electric Co.
 DILLON—Creator Electric Co.
 Dillon Electric Light & Power Co.
 GREAT FALLS—Boston & Great Falls Electric Light & Power Co.
 HAMILTON—Anaconda Copper Mining Co.
 HELENA—Helena Power & Light Co. (City)
 Helena Light & Railway Co.
 Missouri River Power Co.
 KALISPELL—Kalispell Water & Electric Co.
 Big Fork Electric Power & Light Co.
 LEWISTON—Citizens' Electric Co.
 LIVINGSTON—Livingston Water, Power & Electric Light Co.
 MILES CITY—Miles City Water & Light Dept. (City)
 MISSOULA—Missoula Light & Water Co.
 PHILLIPSBURG—Phillipsburg Granite Electric Light Co.
 RED LODGE—Northwestern Improvement Co.

NEBRASKA.

ALBION—Albion Electric Light Plant.
 ALLIANCE—Alliance Electric Co.
 ANSLEY—Ansley Elec. Lt. & P. Co.
 AUBURN—Auburn Mutual Lighting & Pr. Co.
 AURORA—Aurora Elec. Lt., Heat & Pr. Co.
 BEATRICE—Beatrice Elec. Co.
 BLAIR—Blair Electric Light & Power Co.
 BLUE SPRINGS—(See Wymore.)
 CHARDON—Chardon Elec. Lt. & P. Co.
 COLUMBUS—Columbus Elec. Lt. & Power Co.
 CRETE—City owns the plant.
 DAVID CITY—Bell, Jas. & Son
 FAIRBURY—Fairbury El. L. & Power Co.
 FALLS CITY—City Elec. L. Plant (City)
 FREMONT—City Elec. Lt. Plant (City)
 Fremont Gas & E. L. Co.
 GRAND ISLAND—Grand Island Electric Co.
 Grand Island Gas Co.
 Grand Island Light Plant (City)
 HASTINGS—Hastings Light Plant (City)
 HOLDREDGE—Holdredge Electric Light So.
 HOOPER—Martin, Wm. T.
 HUMBOLDT—Humboldt El. Lt. Plant.
 HUMPHREY—Humphrey Elec. Lt. & Telephone Co.
 KEARNEY—Northwestern Elec. Htg. & Pr. Co.
 LEXINGTON—Lexington Mill & Elevator Co.
 LINCOLN—Lincoln City Lt. Plant (City)
 Lincoln Gas & Electric Light Co.
 Lincoln Traction Co.
 MCCOOK—McCook Electric Light Co.
 NEBRASKA CITY—Nebraska City Water & L. Co.
 NORFOLK—Norfolk Elec. L. & P. Co.
 NORTH PLATTE—North Platte El. Lt. Co.
 OMAHA—Omaha Elec. Light & Power Co.
 PAWNEE CITY—Pawnee City Lt. & Water Plant (City)
 PLATTSBURGH—Nebraska Light Co.
 SAINT PAUL—Loup Valley El. Co.
 SCHUYLER—Schuyler Elec. Lt. Plant (City)
 SEWARD—Town El. Lt. Plant (City)
 SOUTH OMAHA—Omaha Elec. Lt. & P. Co.

STANTON—Stanton Electric Light Co.
 STROMSBURG—Stromsburg Electric Light, Heat & Power Co.
 SUPERIOR—Superior Elec. Lt. Co.
 SUTTON—Sutton Electric Light & Power Co.
 TECUMSEH—Town owns the plant.
 TEKAMAH—Tekamah Electric Light Co.
 VERDIGRIS—Verdigris El. Lt. Co.
 WAHOO—Jones, S. H. (owner)
 WAYNE—Municipal Wtr. & Lt. Dept. (City)
 WYMORE—Wabaska Elec. Co.
 YORK—York Lt. & Power Co.

NEVADA.

CARSON—Carson El. Lt. & Power Co.
 RENO—Reno Water, Light & Power Co.
 TONOPAH—Nevada Pwr., Min. & Millg. Co.
 VIRGINIA CITY—Truckee River General Electric Co.
 WADSWORTH—Wadsworth Light & Power Co.
 WINNEMUCCA—Winnemucca Water & Lt. Co.

NEW HAMPSHIRE.

ANTRIM—Goodell Co.
 ASHLAND—Ashland Electric Light Co.
 BARTLETT—(See Intervals)
 BENNINGTON—(See Antrim.)
 BERLIN—Berlin E. L. Co.
 Cascade El. Lt. & Power Co.
 BETHLEHEM—Bethlehem Elec. Lt. Co.
 BOW—(See Manchester.)
 BRADFORD—Bradford Electric Light Co.
 BRISTOL—Bristol Electric Light Co.
 CAMPTON VILLAGE—Campton Electric Lt. Co.
 CLAREMONT—Claremont Ry. & Lighting Co.
 COLEBROOK—W. E. & W. Drew Electric Light Co.
 CONCORD—Concord Electric Co.
 CONTOOCOOK—Contoocook Elec. Lt. Co.
 DERRY—Derry El. Lt. Co.
 DOVER—United Gas & Electric Co.
 EXETER—Exeter Gas Light Co.
 FARMINGTON—Farmington Gas Light Co.
 FRANKLIN FALLS—Franklin Lt. & Power Co.
 GOFFSTOWN—Goffstown Heating & Lighting Co.
 GORHAM—Cascade Elec. Lt. & Pwr. Co.
 GROVETON—Groveton E. L. Co.
 HANOVER—Kascoma El. Lt. & Gas Co.
 HILLSBORO BRIDGE—Hillsboro Electric Light & Power Co.
 HINSDALE—Brattleboro Gas Lt. Co.
 HOOKSET—(See Manchester Trac. Lt. & Pwr.)
 HOPKINTON—Contoocook El. Light Co.
 KEENE—(Keen) Citizens' Electric Co.
 Keene Gas & Electric Co.
 LACONIA—Laconia Electric Lighting Co.
 LANCASTER—Lancaster & Jefferson Elec. Lt. Co.
 LEBANON—Lebanon Elec. Lt. & P. Co.
 LISBON—Lisbon Lt. & Pr. Co.
 LITTLETON—Littleton Water & Light Co. (City)
 MANCHESTER—Manchester Electric Co.
 Manchester Trac., Lt. & Power Co.
 MARLBORO—Marlboro Electric Light, Heat & Power Co.
 MEREDITH—Meredith Elec. Lt. Co.
 MILFORD—Milford, E. L. & P. Co.
 NASHUA—Nashua Light, Heat & Power Co.
 NEWPORT—Newport Elec. Light Co.
 NEW BOSTON—New Boston Lt. Plant.
 NEW HAMPTON—New Hampton El. Lt. & P. Co.
 NEW MARKET—New Mkt. El. Lt., P. & Ht. Co.
 NORTH WALPOLE—See Bellows Falls.
 PEMBROKE—Pembroke El. Lt. Co.
 PENACOOK—Penacook Elec. Lt. Co.
 PETERBORO—Peterboro Elec. Lt. & Power Co.
 PLYMOUTH—Plymouth Electric Light Co.
 PORTSMOUTH—Rockingham Co. Lt. & Pwr. Co.
 RAYMOND—Raymond Elec. Lt. & Supply Co.
 ROCHESTER—United Gas & Electric Co.
 SOMERSWORTH—United Gas & El. Co.
 SUNAPEE—Sunapee El. Lt. & Pwr. Co.
 TILTON—Tilton Elec. Co.
 SALEM—Salem El. Lt. Co.
 WALPOLE—Fall Mountain Lt. & Pwr. Co.
 WHITEFIELD—Whitefield El. Lt. Co.
 WINCHESTER—Ashuelot Valley El. Lt. & Pwr. Co.
 WOLFBORO—Town Elec. Lt. Plant (Town)
 WOODSVILLE—Woodsville Aqueduct Co.

NEW JERSEY.

ASBURY PARK—Atlantic Coast Electric Light Co.
 ATLANTIC CITY—Atlantic City Gas & Water Co.
 Atlantic Elec. Lt. & Power Co.
 ATLANTIC HIGHLANDS—Borough Elec. Lt. Plant

BAYONNE—Publ. Serv. Corpor. of N. J.
 BELLEVILLE—Publ. Serv. Corpor. of N. J.
 BELVIDERE—Warren Wood Working Co.
 BEVERLY—Cinnaminson El. Lt. Co. (Riverside)
 BLOOMFIELD—Publ. Serv. Corpor. of N. J.
 BOONTON—Publ. Serv. Corpor. of N. J.
 BORDENTOWN—Bordentown El. Lt. & Mtr. Co.
 BOUND BROOK—Publ. Serv. Cor. of N. J.
 BRANCHVILLE—Branchville Elec. Lt. Plant
 BRIDGETON—Bridgeton Elec. Co.
 BURLINGTON—Burlington E. L. & Pr. Co.
 CAMDEN—(City owns plant) (Publ. Serv. Corpor. of N. J.)

CAPE MAY—Cape May Light & Power Co.
 CARLSTADT—Bergen County Gas & El. Co.
 CARTARET—Publ. Serv. Corpor. of N. J.
 CLAYTON—(See Pitman Grove)
 CLINTON—Clinton Electric Light Co.
 COLLINGSWOOD—(See Haddonfield.)
 DOVER—Dover Electric Light Co.
 DUNELLEN—Publ. Serv. Corpor. of N. J.
 EGG HARBOR—Egg Harbor Elec. Lt. Co.
 ELIZABETH—Publ. Serv. Corp. of N. J.
 ENGLEWOOD—(See Hackensack.)
 FLEMINGTON—Flemington Elec. Lt., Heat & P. Co.

FREEHOLD—Freehold Electric Light, Heat & Power Co.
 GARFIELD—Publ. Serv. Corpor. of N. J.
 GLASSBORO—(See Pitman Grove)
 GLEN RIDGE—Public Service Corp. of N. J.
 GLOUCESTER—Publ. Serv. Corpor. of N. J.
 GUTTENBURG—Publ. Serv. Corpor. of N. J.
 HACKENSACK—Gas & Elec. Co. of Bergen Co.
 HACKETTSTOWN—Hackettstown Elec. Lt. Co.
 HADDONFIELD—Publ. Serv. Corpor. of N. J.
 HAMILTON—Publ. Serv. Corpor. of N. J.
 HAMMONTON—Elec. Lt. & Power Co.
 HARRISON—Publ. Serv. Corpor. of N. J.
 HARRISON—Publ. Serv. Corpor. of N. J.
 HIGHTSTOWN—Elec. Lt. & Pwr. Co.
 HOBOKEN—Publ. Serv. Corpor. of N. J.
 HOPEWELL—Hopewell Electric Light, Heat & Power Co.

JERSEY CITY—Publ. Serv. Corpor. of N. J.
 KEYPORT—Jersey Central Trac. Co.
 LAKEWOOD—Lakewood Wtr., Lt. & Pwr. Co.
 LAMBERTVILLE—Hunterdon Elec. Co.
 LODI—Publ. Serv. Corpor. of N. J.
 LONG BRANCH—Consol. Gas Co. of N. J.
 MANASQUAN—(See Point Pleasant)
 MERCHANTVILLE—Publ. Serv. Corp. of N. J.
 METUCHEN—Publ. Serv. Corpor. of N. J.
 MILLBURN—Millburn Elec. Co.
 MILLVILLE—Millville Elec. Lt. Co.
 MOORESTOWN—Publ. Serv. Corpor. of N. J.
 MORRISTOWN—Publ. Serv. Corpor. of N. J.
 MOUNT HOLLY—Publ. Serv. Corpor. of N. J.
 NEWARK—United Elec. Co. of N. J.
 NEW BRUNSWICK—Publ. Serv. Corpor. of N. J.

NEW EGYPT—New Egypt Elec. Lt. & Pwr. Co.
 NEWTON—Newton Gas & Electric Co.
 NUTLEY—Publ. Serv. Corpor. of N. J.
 OCEAN CITY—Ocean City Elec. Lt. Co.
 OCEAN GROVE—Ocean Grove Camp Meeting Association

ORANGE—Publ. Serv. Corpor. of N. J.
 PASSAIC—Publ. Serv. Corpor. of N. J.
 PATERSON—Paterson Gas & Elec. Co.
 PERTH AMBOY—Publ. Serv. Corpor. of N. J.
 PHILLIPSBURG—Phillipsburg El. Lt., Ht. & P. Co.

PITMAN GROVE—Gloucester Co. Electric Co.
 PLAINFIELD—Publ. Serv. Corpor. of N. J.
 PLEASANTVILLE—Pleasantville El. Co.
 POINT PLEASANT—Point Pleasant Elec. Lt. & Pwr. Co.

PRINCETON—Princeton Elec. Works
 University Power Co.
 RAHWAY—Publ. Serv. Corpor. of N. J.
 RARITAN—(See Metuchen)
 RED BANK—Shore Elec. Co. (See Newark.)
 RIDGEWOOD—Gas & Electric Co. of Bergen County (see Hackensack.)

ROCKAWAY—Rockaway El. Lt. & Imp. Co.
 RUTHERFORD—Gas & Elec. Co. of Bergen Co. (See Hackensack.)

SALEM—Salem Electric Co.
 SAYREVILLE—Sayreville Elec. Lt. & Pwr. Co.
 SEA ISLE CITY—Sea Isle City Elec. Lt., P. & Water Co.

SOMERVILLE—Publ. Serv. Corpor. of N. J.
 SOUTH AMBOY—Jersey Central Trac. Co.
 SOUTH ORANGE—Publ. Serv. Corpor. of N. J.
 SUMMIT—Commonwealth Wtr. & L. Co.
 SUSSEX—Woodbourne El. Lt. & Pwr. Co.
 TOMS RIVER—Toms River & Island Heights Elec. Lt. & Pwr. Co.

TRENTON—Publ. Serv. Corpor. of N. J.
 UNION—Publ. Serv. Corpor. of N. J.
 VINELAND—Vineland Light & Power Plant (City)

WASHINGTON—Washington Elec. Lt., Heat & WENONAH—(See Pitman Grove) P. Co.
 WOODBINE—Woodbine Lt. & Impr. Co.
 WOODBURY—Publ. Serv. Corpor. of N. J.

NEW MEXICO.

ALAMOGORDO—Alamogordo El. Plant.
 ALBUQUERQUE—Albuquerque Gas, Electric Light & Power Co.
 Albuquerque El. P. Co.
 DEMING—Deming Ice & Electric Co.
 GALLUP—Gallup Electric Light & Power Co.
 LAS CRUCES—Las Cruces El. Lt. & Ice Co.
 LAS VEGAS—Las Vegas Ry. & Pwr. Co.
 RATON—Raton, E. L. & Power Co.
 ROSWELL—Roswell Electric Light & Power Co.
 SANTA FE—Santa Fe Wtr. & Elec. Co. Co.
 SILVER CITY—New Mex. Lt., Ht. & P. Co.

NEW YORK.

ADAMS—Adams Elec. L. Co.
 ADDISON—Addison Elec. Lt. & P. Co.
 ALBANY—Albany Elec. Illuminating Co.
 ALBION—Albion Power Co.
 AMITYVILLE—Amityville Elec. Lt. Co.
 AMSTERDAM—Edison El. Lt. & P. Co.
 Empire State Pwr. Co.
 ATHENS—Upper Hudson El. Co. (Newburgh)
 ATTICA—Attica Gas & El. Co.
 AUBURN—Auburn Light, Heat & Power Co.
 AU SABLE FORKS—Citizens' Lt. & Pwr. Co.
 Keeseville El. Co.
 AVON—Avon Electric Light Co.
 BABYLON—Babylon E. L. Co.
 BALDWINVILLE—Seneca Riv. Pwr. Co.
 BALLSTON SPA—Ballston Spa Lt. & P. Co.
 BATAVIA—Batavia Lt. & P. Co.
 City of Batavia Elec. Lt. Plant (City)
 BATH—Bath Electric & Gas Light Co.
 BAY SHORE—Suffolk Gas & Elec. Lt. Co.
 BINGHAMTON—Binghamton Light, Heat & Power Co.

BOONVILLE—Boonville Elec. Light & Power (City Plant)
 BRASHER FALLS—Babcock, B. A. (owner)
 BROOKPORT—Brookport Electric Co.
 BROOKLYN—(See N. Y. City, Borough of)
 BUFFALO—Buffalo Gen. Electric Co. B'lyn.
 Buffalo & Niagara Falls Elec. Lt. & Pwr. Co. (See Niagara Falls.)
 Cataract Power & Conduit Co. (Distributors of Niagara Falls Power.)
 Niagara, Lockport & Ont. Power Co.

CALEDONIA—(See Mumford.)
 CALDWELL—Lake George Lt., Heat & Pwr. Co.
 CAMDEN—Town El. Plant (City)
 CANAJOHARIE—Montgomery Electric Light & Power Co.

CANANDAIGUA—Ontario Lt. & Trac. Co.
 CANASTOTA—Madison Co. Gas & El. Co.
 CANTON—Canton Elec. Light & Pwr. Co.
 CARTHAGE—Carthage Elec. L. & P. Co.
 CASTILE—El. Lt. Plant (City)
 CATSKILL—Catskill Illum. & Power Co.
 CATTARAUGUS—Cattaraugus Electric Light & Power Co.

CAZENOVIA—Cazenovia Electric Co.
 CHAMPLAIN—Champlain Electric Co.
 CHARLOTTE—Village Elec. Lt. Plant
 CHATEAUGAY—Chateaugay Power Co.
 CHATHAM—Chatham Elec. Lt., Heat & P. Co.
 CHESTERSTOWN—Faxon, Chas. H. & Son
 CITY ISLAND—(See N. Y. City, Borough of Bronx.)

CLAYTON—Thousand Island Elec. Lt. Co.
 CLINTON—Clinton Electric Co.
 College Hill El. Lt. Co.
 Franklin Spr. El. Co.

CLYDE—Wayne County Electric Co.
 COBELSKILL—Courter Elec. Co.
 COHOES—Cohoes Gas Lt. Co.
 COLD SPRINGS—Cold Spring Lt., Ht. & Pwr. Co.
 COOPERSTOWN—Clinton Mills Pr. Co. Co.
 CORINTH—Corinth Electric Light Co.
 CORNING—Corning Gas & Electric Co.
 CORNWALL ON THE HUDSON—Hudson Counties Gas & El. Co.

CORTLAND—Cortlandt City Trac. Co.
 COXSACKIE—Upper Hudson El. Co.
 DANVILLE—Dansville Gas & Elec. Co.
 DELEVAN—Delevan Elec. Lt. & P. Co.
 DELHI—Delhi Electric Co.
 DEPEW—(See Lancaster.)
 DEPOSIT—Deposit Electric Co.

DOLGEVILLE—Herkimer City Lt. & P. Co.
 DOVER PLAINS—Dover Plains Elec. Lt. & P. Co.
 DUNDEE—Dundee Elec. Lt., Ht. & Pwr. Plant
 DUNKIRK—Cumings Power & Htg. Co.
 Dunkirk Power Plant (City)

EAST AURORA—East Aurora Elec. Light Co.
 EAST HAMPTON—E. Hampton El. Lt. Co.
 ELLENVILLE—Ellenville Electric Lt. Co.
 ELMIRA—Elmira Wtr., Lt. & R. R. Co.
 FAIRPORT—Village El Lt. Plant (City)

FAR ROCKAWAY—(See New York City, Borough of Queens)

AYETTEVILLE—Syracuse Electric Lt. Co. (See Syracuse)

FLORAL PARK—Floral Park Lt. & Pr. Co.
 FLUSHING—(See New York City, Borough of Queens)
 FONDA—Cayadutts Generating Co.
 FORT ANN—Kanes Falls Electric Co.
 FORT EDWARD—United Gas El. & F. Co.
 FORT PLAIN—Fort Plain Gas & Electric Light, Heat & Power Co.

FRANKFORT—Town El. Lt. Plant (City)

FREDONIA—Village owns the plant

Dunkirk & Fredonia Street Ry. & Elec. Lt. Co.

FREEPORT—Village owns plant

FULTON—Fulton Light, Heat & Power Co.

GENESECO—Geneseo Gas Lt. Co.

GENEVA—Geneva Pwr. & Lt. Co.

GLEN COVE—Nassau Lt. & P. Co.

GLENS FALLS—Glens Falls Gas & Electric Light Co.

Hudson River Electric Co.

GLOVERSVILLE—Fulton County Gas & Elec. Co.

GOSHEN—Goshen L. & Power Co.

GOVERNEUR—Oswegatchie Light & Pr. Co.

GOWANDA—Gowanda Electric Light & Power Co.

RANVILLE—Granville Elec. Lt. & Power Co.

GRAVESEND—(Borough B'klyn, N. Y. City)

GREENE—Greene Elec. Lt. Plant (City)

GREEN ISLAND—(Village of Green Island)

GREENPORT—Village El. Plant (City) (City)

GREENWICH—Consolidated Elec. Co.

GROTON—Town El. Lt. Plant (City)

HAMBURG—Hamburg Water & Electric Light Co.

HAMMONDSPORT—Hammondsport Electric Light Co.

HAVERSTRAW—Rockland Lt. & Pwr. Co.

HERKIMER—City Elec. Lt. Plant (City)

HICKSVILLE—Nassau Lt. & P. Co. (Roslyn)

HIGHLAND FALLS—Buttermilk Falls Elec. Co.

HILLBURN—Rockland Elec. Co.

HOMER—Cortlandt & Homer El. Co.

HOOSICK FALLS—Hoosick Falls Illg. Co.

HORNELLVILLE—Am. Illuminating Co. of Hornell.

HORSEHEADS—Elmira Wtr. Lt. & R. R. Co.

HOWES CAVE—Casper, Frank L.

HUDSON—Albany & Hudson R. R. Co.

HUNTINGTON—Huntington Light & Power Co.

ILION—Village Elec. Light Plant.

ITHACA—Ithaca El. Lt. & P. Co.

JAMAICA—(See New York City, Borough of Queens)

JAMESTOWN—Jamestown Lighting & Pr. Co.

Municipal Electric Lighting Plant.

JOHNSTOWN—Fulton City Gas & El. Co. (City owns plant)

JORDAN—Jordan Elec. Light & Power Co.

KEESEVILLE—Keeseville Elec. Co.

KINGSTON—Kingston Gas & Electric Co.

LAKE PLACID—City El. Plant.

LANCASTER—Depew & Lancaster Lt., Power & Conduit Co.

LE ROY—Le Roy Hydraulic Electric Co.

WESTERSHIRE—Binghamton Lt. & Pwr. Co.

LIBERTY—Liberty Lt. & P. Co.

LITTLE FALLS—Consumers' El. Lt. Co.

Herkimer County Lt. & Pwr. Co. (of Dokger-ville)

LITTLE VALLEY—Town El. Lt. Plant (City)

LIVONIA STATION—Stedman Elec. & Mfg. Co.

LOCKPORT—Economy Lt. & Pwr. Co.

Lockport Gas & Elec. Light Co.

When writing to firms
 whose names appear
 in this book please
 mention

HENDRICKS'
COMMERCIAL
REGISTER.

LONG ISLAND CITY—North Beach El. L. & P. Co. (See New York City, Borough of Queens)
LOWVILLE—Wetmore Electric Co.
LYONS—Wayne County Electric Co.
MALONE—Malone Light & Power Co.
MANHATTAN BEACH—(See New York City, Borough of Brooklyn)
MARATHON—Marathon El. Lt. Plant (City)
MASSENA—St. Lawrence City El. & Wtr. Co.
MATTEAWAN—Citizens' R. R., Light & Power Co.
MECHANICSVILLE—Halfmoon Light, Heat & Pr. Co. (Gas & Electricity)
 Mechanicsville Electric Light & Gas Co.
MEDINA—Swett, A. L. Electric Light & Power Co.
MEXICO—Mexico Elec. Light Co.
MIDDLEBURG—Middleburg & Schoharie Elec. Lt., Heat & P. Co.
MIDDLETOWN—Orange County Lighting Co.
MINEOLA—(See Roslyn)
MOHAWK—Town El. Plant (City)
MONTICELLO—Murray Elec. Lt. & P. Co.
MONTOUR FALLS—Montour Falls Electric Light Co.
MORAVIA—Moravia Elec. Co.
MORRISVILLE—Earl, W. M. (Owner) Morrisville Elec. Light Co.
MOUNT MORRIS—Mt. Morris Illg. Co.
MOUNT VERNON—Westchester Lighting Co.
MUMFORD—Hyde, F. H.
NEWARK—New Light Heat & Power Co.
NEW BERLIN—New Berlin Light & Power Co.
NEWBURGH—Newburgh Lt., Ht. & Power Co. Upper Hudson Electric Co.
NEW ROCHELLE—W. Chester Elec. Co. of Mt. Vernon

NEW YORK CITY. Borough of Brooklyn.

BROOKLYN—Edison Electric Illuminating Co., 358 Pearl
 Flatbush Gas Co., 819 Flatbush av.
 Kings County Electric Light & Power Co., 360 Pearl
 Manhattan Beach Improvement Co., Manhattan Beach
 Municipal Elec. Lt. Co., 42 Ainslie.
 Northern Light Co., 1244 Fulton.

Boroughs of Manhattan & Bronx

NEW YORK—The New York Edison Co., 55 Duane St.
 American Light & Traction Co., 40 Wall
 Gas Power Co., 60 Wall
 The North American Co., 30 Broad
 United Electric Light & Power Co., 1170 B'way
 The Brush Electric Illg. Co., 55 Duane
 City Destructor Light Works (City)

Borough of Queens.

FAR ROCKAWAY—Queens Borough Gas and Electric Light Co.
FLUSHING—New York & Queens Electric Light & Power Co., 85 Borden ave.
JAMAICA—New York & Queens Elec. Lt. & Pwr. Co. (See Flushing)
LONG ISLAND CITY—New York & Queens Elec. Lt. & Power Co. (See Flushing)

Borough of Richmond.

WEST NEW BRIGHTON—Richmond Light & R. R. Co.
(END OF NEW YORK CITY)
NIAGARA FALLS—Buffalo & Niagara Falls Electric Light Co.
 Niagara Falls Hydraulic Power & Mfg. Co.
 Niagara Falls Power Co.
NORTHPORT—Northport Elec. Lt. Co.
NORTH TONAWANDA—Tonawanda Power Co.
NORTHVILLE—Northville Elec. Lt. & P. Co.
NORWICH—Norwich Gas & Electric Co.
NORWOOD—Norwood Elec. Lt. & Pr. Co.
NYACK—Rockland Light & Power Co.
OGDENSBURG—Ogdensburg Power and Light Co.
OLEAN—Genesee Valley Power Co.
 Olean Electric Light & Power Co.
ONEIDA—Madison County Gas & Electric Co.
ONEONTA—Oneonta Elec. Lt. & Power Co.
OSSINING—Northern Westchester Light Co.
OSWEGO—People's Gas & Electric Co.
OVID—Ovid Electric Light Co.
OWEGO—Owego Light & Power Co.
OXFORD—Oxford Elec. Lt. Co.
OYSTER BAY—Nassau Light & Power Co.
PALMYRA—Palmyra Gas & Electric Co.
PATCHOGUE—Patchogue Elec. Lt. Co.

PEEKSKILL—Peekskill Lighting & R. R. Co.
PENN YAN—City Electric Light Plant (City)
 Yates Electric Light & Power Co.
PERRY—Perry Elec. Light Co.
PHILIPS—Howe's, J. Q. Sons
PHOENIX—Seneca River Power Co.
PLATTSBURG—Lozier Light & Power Co.
 Plattsburgh Light, Heat & Power Co.
PORT CHESTER—Westchester Lighting Co. (See Mt. Vernon).
PORT JEFFERSON—Port Jefferson Elec. Light Co.
PORT JERVIS—Port Jervis Electric Light, Power, Gas & R. R. Co.
PORT WASHINGTON—(See Roslyn)
POTSDAM—Potsdam Electric Light & Power Co.
POUGHKEEPSIE—Poughkeepsie Light, Heat & Power Co.
PULASKI—Pulaski Electric Light Co.
RANDOLPH—Woodmancy, J. L. & Bro.
RENSSELAER—Albany & Hudson Ry. & Power Co.
RHINEBECK—Dutchess Lt., Ht. & Pwr. Co.
RICHFIELD SPRINGS—Richfield Springs Electric Light & Power Co.
RIVERHEAD—Hallett Bros. Electric Co.
 Riverhead Electric Light Co.
ROCHESTER—Eastern Monroe El. Lt. & Gas
 Rochester Railway & Light Co.
ROCKVILLE CENTRE—Village Elec. Lt. Plant
ROME—Rome Gas, Elec. L. & P. Co.
ROSLYN—Nassau Light & Power Co.
ST. JOHNSVILLE—East Creek Electric Light & Power Co. (East Creek)
SAG HARBOR—Sag Harbor Elec. Lt. & Pwr. Co.
SALAMANCA—Salamanca Water Works Co.
SALEM—Salem, E. L. & P. Co.
SANDY HILL—United Gas, Electric Light & Fuel Co.
SARANAO LAKE—Saranac Lake Elec. Lt., Ht. & Power Co.
SARATOGA SPRINGS—Saratoga Gas, Electric Light & Power Co.
SAUGERTIES—Ellister Electric Light, Heat & Power Co.
SAYVILLE—Sayville Elec. Lt. Co.
SCHENECTADY—General Electric Co.
SEA CLIFF—(See Roslyn)
SENECA FALLS—Seneca Edison Co.
SHERMAN—Sherman Elec. Light Co.
SIDNEY—Susquehanna Valley Electric Co.
SILVER CREEK—People's Elec. Light & Power Co.
SOUTHAMPTON—Southampton Elec. Lt. Co.
 Suffolk Lt., Ht. & P. Co.
SOUTH GLEN FALLS—United Gas, Electric Light & Fuel Co.
SPENCER—Seely, S. A.
SPRINGVILLE—City Elec. Lt. Plant (City)
STAMFORD—Stamford Elec. Light Co.
 W. Branch Light & Power Co.
STILLWATER—Halfmoon Light, Heat & Power Co.
SYRACUSE—Syracuse Lighting Co., 112 E. Jeff.
TARRYTOWN—Westchester Light Co.
THERESA—Theresa Electric Lt. & Power Co.
TICONDEROGA—Ticonderoga El. L. & P. Co.
TONAWANDA—Tonawanda Power Co. (See N. Tonawanda).
TROY—Beacon Electric Light Co.
 Troy Gas Co.
TULLY—Village Elec. Lt. Plant (Village)
TUXEDO PARK—Tuxedo Elec. Lt. Co.
UTICA—Utica Gas & Electric Co.
WALDEN—Wallkill Valley Elec. Lt. & P. Co.
WALTON—Walton Electric Light Co.
WAPPINGERS FALLS—Village Electric Light Plant (City)
WARRENSBURG—Smith, John G.
WARSAW—Warsaw Gas & Elec. Co.
WARWICK—Warwick Valley Lt. & P. Co.
WATERFORD—(See Troy).
WATERLOO—(See Seneca Falls)
WATERTOWN—Watertown E. L. Co.
WATERVILLE—Waterville Elec. Lt. & Power Co.
WATERVLIET—City Elec. Lt. Plant (city)
WATKINS—Watkins Consolidated Electric Lgt. & Power Co.
WAVERLY—Waverly E. L. & P. Co.
WAYLAND—Shafer, Wolff & Co.
WEEDSPORT—WeedSPORT Elec. Light Co.
WELLSVILLE—Wellsville Elec. Lt., Heat & P. Co.
WESTFIELD—Village Elec. Lt. Plant (village)
WHITEHALL—Consolidated Lt. & Power Co.
WHITE PLAINS—Westchester Light Co. (New Rochelle)
WHITESBORO—(See Utica Gas & Electric Co., Utica)
WOLCOTT—Wolcott Elec. Lt. & P. Co.
WORCESTER—Worcester Electric Light Co.
YONKERS—Yonkers Elec. Lt. & P. Co.
 New York Edison Co.

NORTH CAROLINA.

ASHEVILLE—Asheville Elec. Co.
 W. T. Weaver Power Co.
BURLINGTON—Village Electric Plant (City)
CHAPEL HILL—University of N. C. Elec. Light Plant
CHARLOTTE—Catawba Power Co.
 Charlotte El. Ry. & P. Co.
CONCORD—Concord Electric Light (City plant)
DURHAM—Durham Traction Co.
EDENTOWN—Town Electric Light Plant (City)
ELIZABETH CITY—Electric Light & Power Plant (City)
ELKIN—Elkin Elec. Light & Power Co.
FAYETTEVILLE—El. Lt. & Power Plant (City)
 Cape Fear Power Co.
GASTONIA—Elec. & Water Works (City)
GOLDBORO—Elec. Light Plant (City)
GRAHAM—Graham Water & Elec. Co.
GREENSBORO—Greensboro Gas & Electric Co.
GREENVILLE—Water & Light Plant (City)
HENDERSON—Henderson Lighting & Power Co.
HICKORY—Thornton Light & Power Co.
HIGH POINT—High Point Electric Power Co. Municipal Plant.
KINSTON—Kinston Electric Light Plant (City)
LENOIR—Lenoir Citizens' Light & Power Co.
LEXINGTON—Lexington Elec. Lt. & Power Co.
MAXTON—Carolina Electric Co.
MONROE—Monroe Cotton Mill
MOREHEAD—Elec. Light Plant (City)
MORGANTOWN—Morgantown Elec. Light Plant (City)
MOUNT AIRY—Town Elec. Light Plant (City)
NEWBERNE—Newberne Electric Light Plant (City)
NEWTON—Newton Elec. Light Plant (City)
OXFORD—Water & Light Co. (City)
RALEIGH—Raleigh Electric Co.
 Standard Gas & Electric Co.
REIDSVILLE—Reidsville Elec. Lt. Plant (City)
ROCKINGHAM—Elec. Light Plant (City)
ROCKY MOUNT—Elec. Light Plant (City)
ROPER—John L. Roper.
SALEM—(See Winston Salem)
SALISBURY—Salisbury & Spencer Ry. Co.
SHELBY—Shelby Electric Light Co.
 Lily Mill, & Power Co.
SOUTHERN PINES—R. L. Chandler Elec. Light Plant
 So Pines & Carthage Electric Light Works
STATESVILLE—City Electric Light Plant
TARBORO—Electric Light Plant (City)
WASHINGTON—Washington Light & Water Plant (City)
WILMINGTON—Consolidated Ry., Light & Power Co.
 Rockingham Power Co.
WILSON—City Elec. Light Plant (City)
WINSTON SALEM—Fries Mfg. & Power Co.

NORTH DAKOTA.

BISMARCK—Hughes Electric Co.
BOTTINEAU—Telephone & Electric Light Co.
CASSELTON—Casselton Elec. Light Plant
DEVILS LAKE—Devils Lake Improvement Co.
DICKINSON—Dickinson Elec. Light Plant
FARGO—Union Light, Heat & Power Co.
GRAFTON—City Elec. Lt. Plant (city)
GRAND FORKS—City Elec. Light Plant (City)
 Grand Forks Gas & Elec. Co.
JAMESTOWN—Western Electric Co.
LANGDON—Langdon E. L. Co.
MANDAN—Mandan Electric Co.
MINOT—Minot Light & Telephone Co.
VALLEY CITY—Elec. Light Plant (City)
WAHPETON—Northern Light Elec. Co.

OHIO.

ADA—Ada Water, Heat & Light Co.
AKRON—Northern Ohio Traction & Light Co.
ALLIANCE—Alliance Gas & Electric Co.
ANTWERP—Harris, Henry.
ARCHBOLD—Walder, A.
ASHLAND—Ashland Gas & E. L. Co.
ASHTABULA—City Elec. Lt. Plant (city)
ATHENS—Athens Light & Elec. Plant (City)
BAIRBRIDGE—Village Elec. Lt. Plant (Village)
BARBERTON—North, Ohio Trac. & Light, Co.
BARNESVILLE—Barnesville Gas & E. L. Co.
BEDFORD—Electric Light & Power Co.
BELLAIRE—Bellair Light & Power Co.
BELLEFONTAINE—Elec. Light Plant (City)
BELLVILLE—Gardner, E. K.
BELLEVUE—Bellevue Elec. Light & Power Co.
BEREA—City Elec. Lt. Plant
BLANCHESTER—City Elec. Lt. Plant
BOWLING GREEN—Lake Erie, Bowling Green & Napoleon Ry. Co.
BRIDGEPORT—Bridgeport Elec. Lt. & Pr. Co.
BRYAN—Bryan Water & Elec. Light Plant (City)
BUCYRUS—Bucyrus Gas & Elec. Light Co.
BURTON—Burton Electric Co.
CADIZ—Cadiz Elec. Lt. & P. Co.

CAMBRIDGE—Cambridge Light & Fuel Co. Consolidated Co.
 CAMDEN—Camden Electric Light Co.
 CANAL DOVER—Tuscarawas Electric Co.
 CANTON—Canton Lt., Heat & P. Co. Merchants Heat, Light & Power Co.
 CARDINGTON—Cardington Elec. Light, Heat & Power Co.
 CAREY—Carey Elec. Light & Water Works (City)
 CARROLLTON—Carrollton Electrical Co.
 CARTHAGE—City Elec. Lt. Plant (city)
 CELINA—Celina Elec. Light Plant (City)
 CHAGRIN FALLS—Chagrin Falls Elec. Co.
 CHICAGO JUNCTION—Elec. Light Plant (City)
 CHILLICOTHE—Chillicothe Elec. R. R., Lt. & P. Co.
 CINCINNATI—Central Electric Co., 709 Main. Cincinnati Gas & Elec. Co., 4th & Plnm. General Electric Co., Perin bldg.
 CIRCLEVILLE—Circleville L. & P. Co.
 CLEVELAND—Bradley Electric Light, Heat & Power Co. City Electric Light Plant (City) Cleveland Electric Illuminating Co. Cleveland Light & Power Co.
 CLYDE—Village Elec. Lt. Plant (village)
 COLUMBIANA—Village Elec. Lt. Plant (village)
 COLUMBUS—Columbus Ry. & Lighting Co. Columbus City Light Plant (City) Columbus Public Service Co.
 CONNEAUT—Municipal Elec. Lt. Plant (city)
 CONTINENTAL—Continental Electric Co.
 COSHOCTON—Coshocton Light & Heating Co. Merchants' Elec. Lt. & Power Co.
 COVINGTON—Albery, R. M.
 CRESTLINE—Cantine, W. W. & Co. Crestline Ill. Co.
 CUYAHOGA FALLS—City owns plant
 DAYTON—Dayton Lighting Co. Dayton Citizens' Electric Co.
 DEFIANCE—People's Gas & Elec. Co.
 DE GRAFF—Village Elec. Lt. Plant (village)
 DELAWARE—Delaware Elec. L. & P. Co.
 DELPHOS—Delphos Elec. L. & P. Co.
 DELTA—Delta Electric Light Co.
 DENNISON—United Electric Co.
 EAST LIVERPOOL—East Liverpool Lt. & Trac. Co.
 EAST PALESTINE—East Palestine Elec. Light Works (City)
 EATON—Eaton Elec. Lt., Power & Ice Mfg. Co.
 ELYRIA—Citizens' Gas & Electric Co. Dean Electric Co. Ely Realty Co.
 FINDLAY—Gaslight & Coke Co. Toledo, Bowling Green & South. Ry. Co.
 FOSTORIA—City Heat & Light Co.
 FRANKFORT—City Elec. Lt. Plant
 FRANKLIN—Franklin Elec. Light Co.
 FREMONT—Fremont Gas, Elec. Lt. & Pr. Co. Fremont Yarijan Co.
 GALION—City owns plant.
 GALLIPOLIS—Clendenin Elec. Lt. & Power Co. Gallipolis Gas & Coke Co.
 GARRETTSTOWN—Payne Electric Co.
 GENEVA—Geneva Illuminating Co.
 GERMANTOWN—Germantown Elec. Plant (City)
 GIBSONBURG—Gibsonburg Electric Light & Girard—(See Youngstown) Telephone Co.
 GRANVILLE—City Elec. Lt. Plant
 GREENFIELD—Greenfield Water & Elec. Lt. Plant (city)
 GREENVILLE—Greenville Elec. Lt. & Power Plant (City)
 GREENWICH—Village Elec. Lt. Plant (village)
 HAMILTON—Hamilton Electric Light Co. Town Electric Light Plant (City)
 HARRISON—Harrison Light & Water Co.
 HICKSVILLE—Hicksville Elec. Light Co.
 HILLSBORO—Hillsboro Lt. & Fuel Co.
 HOLTGATE—Town El. Lt. Plant (city)
 HUBBARD—Village Elec. Lt. Plant (village)
 HURON—City El. Lt. Plant (city)
 IRONTON—(City owns plant).
 JACKSON—City Elec. Lt. Plant (city)
 JAMESTOWN—Jamestown Elec. Lt. Co.
 JEFFERSON—Jefferson Lt. & Power Co.
 KENT—Kent Water & Light & Pwr. Co.
 KENTON—Kenton Gas & Elec. Co.
 KINSMAN—Kinsman Electric Co.
 LAKEWOOD—Lakewood El. Lt. Plant (city)
 LANCASTER—Lancaster Elec. Light Co.
 LEBANON—City Elec. Lt. Plant (city)
 LEETONIA—Leetonia Elec. L. & P. Co.
 LEIPSIK—Leipsic Electric Light Co.
 LIMA—Lima Electric Ry. & Light Co.
 LISBON—New Lisbon Gas Co.
 LOGAN—Citizens' Elec. Lt. Co.
 LONDON—City Elec. Lt. Plant (city)
 LORAIN—Citizens' Gas & El. Co.
 LOUDONVILLE—Village Elec. Lt. Plant
 LOVELAND—Citizens' El. Co.
 LOWELLVILLE—City Elec. Lt. Plant

LYNCHBURG—Village Elec. Lt. Plant (village)
 McCOMB—McComb Elec. Lt. & Power Co.
 McCONNELSVILLE—McConnelsville-Malta Elec. Co.
 MADISONVILLE—City Elec. Lt. Plant (city)
 MALTA—(See McConnelsville)
 MANCHESTER—El. Lt. Plant (city)
 MANSFIELD—Mansfield Railway Light & Marietta—City owns the plant Power Co. Parkersburg, Marietta & Interurban Ry. Co.
 MARION—The Col., Del. & Marion Ry. Co.
 MARTINS FERRY—Martin's Ferry Elec. Light Plant (city)
 MARYSVILLE—Marysville Light & Water Co.
 MASSILON—Massilon Light, Heat & Power Co.
 MAUMEE—Maumee Elec. Co.
 MECHANICSBURG—Mechanicsburg Gas Lt. Co. The Mechanicsburg Light & Pwr. Co.
 MEDINA—Medina Elec. Lt. & Power Co.
 MIAMISBURG—Miamisburg Elec. Plant (city)
 MIDDLEPORT—Mutual Elec. Lt. Co.
 MIDDLETOWN—Middletown Elec. Lt. & P. Co.
 MILAN—City Elec. Lt. Plant (city)
 MILFORD CENTER—Milford Centre Elec. Lt. & Water Works (village)
 MILLERSBURG—Millersburg Elec. L. Co.
 MINERAL CITY—Village Lt. Plant (city)
 MINERVA—Village Elec. Lt. Plant (village)
 MINGO JUNCTION—Mingo Junct. Lt. Co.
 MONTPELIER—Village Elec. Lt. Plant (village)
 MORROW—People's Electrical Co.
 MOUNT GILEAD—Mount Gilead Elec. Light, Heat & Power Co.
 MOUNT STERLING—Mount Sterling Elec. Lt. & Water Works (village)
 MOUNT VERNON—Mount Vernon (O.) El. Lt. Co.
 NAPOLEON—Napoleon Water Works & Elec. Lt. Plant (city)
 NELSONVILLE—Nelsonville Elec. Lt. Co. Town Elec. Lt. Plant (city).
 NEWARK—Licking Lt. & Pwr. Co. Municipal Elec. Lt. Plant (City)
 NEW BREMEN—New Bremen Elec. Lt. Co.
 NEW LEXINGTON—Smith, T. J.
 NEW LONDON—Municipal Lt. & Power Co.
 NEW PHILADELPHIA—The A. Beyer Elec. Co.
 NEW RICHMOND—New Richmond Elec. Lt. & Water Works
 NEW STRAITSVILLE—Shawnee & Straitsville Elec. Lt. Co.
 NILES—City of Niles Elec. Lt. Plant (city) Niles Elec. Lt. & Wtr. Works (city)
 NORTH BALTIMORE—North Baltimore Elec. Lt. & Pwr. Co.
 NORWALK—The Cleveland & Southwestern Tr. Co.
 NORWOOD—Bullock Electric Mfg. Co. Co. Norwood Water Works & Electric Lighting Plant (Village)
 OAK HARBOR—The Oak Harbor Elec. Co.
 OBERLIN—Oberlin Gas & Elec. Co. Municipal Elec. Lt. Plant (city).
 ORRVILLE—Orrville Lt., Heat & P. Co.
 OTTAWA—The Edison Elec. Lt. Co.
 OXFORD—City owns the plant
 PAINESVILLE—City Elec. Lt. Plant (city) Painesville Commercial Elec. Co.
 PAULDING—Paulding Elec. Light & Power Co.
 PERRYSBURG—Perrysburg Elec. Lt. Wks.
 PERRYSVILLE—Perrysville Elec. Lt. Co.
 PIQUA—Piqua Elec. Co.
 PLAIN CITY—Plain City Water Works & Lt. Plant (village)
 POMEROY—Pomeroy & Middleport Elec. Co.
 PORT CLINTON—Port Clinton Elec. Lt. & P. Co.
 PORTSMOUTH—Portsmouth St. R. R. & Lt. Co.
 PROSPECT—Prospect Electric Light Co.
 RAVENNA—Ravenna Gas & Elec. Lt. Co. The Colonial Elec. Co.
 READING—Water Works & Electric Light Board (village).
 RICHWOOD—Richwood Lt., Ht. & Pwr. Co.
 RIPLEY—Ripley Gaslight & Coke Co.
 ROCKFORD—Rockford Electric Lighting Co.
 ST. BERNARD—St. Bernard Water Works & Elec. Lt. Plant (village)
 ST. MARYS—St. Marys El. Lt. Plant (City)
 ST. PARIS—St. Paris El. Lt. Plant (city)
 SALEM—Salem Elec. L. & P. Co.
 SALINEVILLE—Salineville Electric Light, Heat & Power Co.
 SANDUSKY—Sandusky Gas & Electric Co.
 SEBRING—Sebring Electric Lt. & Power Co.
 SHAWNEE—Shawnee & Straitsville Electric Light Co.
 SHELBY—City Electric Co. Light Co.
 SHREVE—Citizens' Elec. Lt., Heat & Pr. Co. Shreve Electric Light & Power Co.
 SIDNEY—Sidney Elec. Lt. Co.
 SPRINGFIELD—People's Lt., Ht. & Pr. Co. Home Ltg., Pr. & Ht. Co.
 STEUBENVILLE—La Belle Iron Wks. Steubenville Trac. & Lt. Co.

SYCAMORE—Village Elec. Lt. Plant
 TIFFIN—Tiffin Edison Electric Illuminating Co.
 TOLEDO—Consolidated Gas & Light Co. Toledo Heating & Lighting Co. 514 Madison.
 TORONTO—Toronto Elec. L. & Pr. Co.
 TROY—Troy Elec. Lt. Plant (city)
 UHRICHSVILLE—United Elec. Co. (Dennison)
 UPPER SANDUSKY—Citizens' Elec. Lt. & P. Co.
 URBANA—Urbana Elec. Lt. Co.
 VAN WERT—Van Wert Gas Lt. & Pr. Co.
 VERSAILLES—Wtr. Wks & El. Lt. Plant (city)
 WADSWORTH—Wadsworth General Elec. Co. Wadsworth Light & Water Co.
 WAPAKONETA—Village Elec. Lt. Plant (village)
 WARREN—Warren Wtr. & Lt. Co. (village)
 WASHINGTON COURT HOUSE—Washington Gas & Elec. Co.
 WAUSEON—Williams, H. H. & Co.
 WAVERLY—Waverly El. Lt. Plant (city)
 WELLSTON—City Elec. Lt. Plant (City)
 WELLSVILLE—Wellsville Elec. Lt. Co.
 WESTERVILLE—Westerville Electric Co.
 WILLOUGHBY—Village Elec. Lt. Plant (Village)
 WILMINGTON—Wilmington Elec. Lt. Plant (Village)
 WOODSFIELD—Town El. Lt. Plant (city)
 WOODVILLE—Village Elec. Lt. Plant (Village)
 WOOSTER—Wooster Electric Co.
 WYOMING—Cincinnati Gas & El. Co.
 XENIA—Citizens' Lt. & Pr. Co. People's Gas & El. Lt. Co.
 YOUNGSTOWN—Youngstown Consolidated Gas The Shenango Valley El. Co. & Elec. Co.
 ZANESVILLE—Zanesville Ry. Lt. & Pr. Co.

OKLAHOMA TERRITORY.

ALVA—Alva Light & Power Co.
 BLACKWELL—Blackwell Elec. Lt. & P. Co.
 EL RENO—El Reno Elec. Lt. & Pr. Co.
 ENID—Elec. & Gas Co.
 GUTHRIE—The Guthrie Lt. & Pr. Co.
 HOBART—Hobart Ice, Coal & Electric Co.
 KING FISHER—Town Ltg. Plant (city)
 LAWTON—Comanche Light & Power Co.
 MANGUM—Mangum Electric Lt. & Power Co.
 NORMAN—Norman Milling & Grain Co.
 OKLAHOMA—Oklahoma Gas & Electrical Co.
 PERRY—Perry Electric Light Plant (City)
 PONCA—Ponca City Electric Light & Ice Mfg. Co.
 SHAWNEE—Shawnee Lighting Co. Co.
 STILLWATER—Electric Light & Water Works (City)

OREGON.

ALBANY—Albany Can. & Water Co. Oregon Gas Light, Heating & Power Co.
 ASHLAND—Ashland Elec., Power & Lt. Co.
 ASTORIA—Astoria Electric Co.
 BAKER CITY—Baker Light & Power Co. Eagle River Electric Power Co.
 COQUILLE—Morse, Frank
 CORVALLIS—Corvallis Electric Light & Power City Plant
 COTTAGE GROVE—Abrahms, W. H. & Co.
 DALLAS—Dallas Elec. Lt. Co.
 ENTERPRISE—Enterprise Electric Light Co.
 EUGENE—Lane County Electric Co.
 GRANTS PASS—Condor Water & Power Co.
 HEPPNER—Heppner Lt. & Water Co.
 HILLSBORO—Town Electric Plant (City)
 HOOD RIVER—Hood River Electric Light, Power & Water Co.
 INDEPENDENCE—Willamette Valley Co.
 KLAMATH FALLS—Klamath Falls Lt. & Water Co.
 LA GRANDE—Grande Ronde Electric Co.
 LEBANON—Lebanon Electric Light & Water
 MC MINNVILLE—City Elec. Lt. Plant. Co.
 MARSHFIELD—Coos Bay Light & Power Co.
 MILTON—City Elec. Lt. Plant (City)
 NEWBERG—Yamhill.
 OREGON CITY—Portland General Electric Co.
 PENDLETON—Southwestern Gas & Electric Co.
 PORTLAND—Portland General Elec. Co.
 PRINEVILLE—Prineville Light & Water Co.
 ROSEBURG—Umpqua Water, Light & Power
 ST. HELEN—St. Helen Lt. & Water Co. Co.
 SALEM—Citizens' Light, Power & Trac. Co.
 SCIO—City Elec. Lt. Plant (City)
 SILVERTON—Citizens' Light & Traction Co. Silvertown Light & Power Co.
 STAYTON—Stayton Elec. Lt. Co.
 SUMPTER—Sumpter Light & Water Co.
 THE DALLES—Wasco Warehouse Milling Co.
 TILLAMOOK—Tillamook Lumbering Co.
 UNION—Union Electric Light Co.
 WASCO—(See The Dalles).
 WOODBURN—Citizens' Light & Traction Co. (Silvertown)

PENNSYLVANIA.

| | | |
|---|---|---|
| ALLEGHENY—City Elec. Light Plant (City) Pennsylvania Light & Power Co. | ELLWOOD CITY—Ellwood Elec. Lt. Plant Penna. Pwr. Co. | MAUCH CHUNK—Mauch Chunk Ht., Power & Elec. Lt. Co. |
| ALLENTOWN—Lehigh Valley Traction Co. | EMAUS—Town owns the plant. | MAYFIELD—Household El. Lt. & P. Co. (See Jermyn) |
| ALTOONA—Edison Elec. Ill. Co. | EMPORIUM—City El. Lt. Plant (City) | MEADVILLE—People's Incandescent Lt. Co. |
| Citizens' Electric Light, Heat & Power Co. | EMLENTON—Emlenton Gas Light & Fuel Co. | Meadville Town El. Lt. Plant (City) |
| AMBLER—Ambler Elec. Lt., Ht. & Motor Co. | EPHRATA—Lancaster Valley Electric Lt. Co. | MECHANICSBURG—United El. Co. |
| APOLLO—Pittsburg & Allegheny Valley Ry. | Town El. Lt. Plant (City) | Media Town El. Lt. Plant (City) |
| ARCHBALD—Crescent Electric Co. Co. | ERIE—Erie County Electric Co. | MEDIA—Media Elec. Lt., Ht. & Power Co. |
| ARDMORE—Haverford Electric Light Co. | ESPLEN—Allegheny County Light Co. | Media Town Electric Light Plant (City) |
| ASHLAND—Edson Electric Illuminating Co. | ETNA—Towu El. Plant (City) | MEYERSDALE—Meyersdale Elec. Lt., Ht. & Power Co. |
| ASPINWALL—Aspinwall Electric Light Plant | EVERETT—Everett Lt., Heat & Power Co. | MIDDLETOWN—City Elec. Lt. Plant (City) |
| AVALON—(See Bellevue) (City) | FOREST CITY—Forest City Electric Light Co. | MIFFLINTOWN—Junata Co. |
| AVOCA—Standard Elec. Lt., Heat & Power Co. | FORD CITY—El. Lt. Plant. | MILLERSBURG—Millersburg Elec. Lt., Ht. & Power Co. |
| BANGOR—Bangor Elec. Lt., Heat & Power Co. | FORTYFORD—City Elec. Lt. Plant. | MILLHALL—Millhall Electric Light Co. |
| BEAVER FALLS—(See New Brighton) | FRACKVILLE—Frackville & Gilberton Lt., Heat & Power Co. | MILLVALE—Wtr. & Lt. Plant (City) |
| BEDFORD—Bedford Elec. Lt., Heat & Power | FRANKLIN—Franklin Elec. Co. | MINERSVILLE—Minersville Elec. Lt. Co. |
| BELLEFONTE—Bellefonte Electric Co. Co. | FREEDOM—(See New Brighton) | MONACA—Monaca El. Lt. Co. |
| BELLE VERNON—Belle Vernon Lt. & Ht. Co. | FREELAND—Hazleton Elec. Lt., Heat & Power Co. | MONONGAHELA CITY—Monongahela Elec. Lt. Co. |
| Monongahela Valley Electric Co. | GALLITZIN—Gallitzin Electric Light Co. | MONTGOMERY—Montgomery Elec. Lt. & Pr. Co. |
| BERLIN—Berlin Electric Light Plant (City) | GERMANTOWN—(See Philadelphia). | MONTROUSE—Montrose El. Lt., Ht., & Pwr. Co. |
| BERWICK—Berwick Elec. Lt. Co. | GETTYSBURG—Keystone El. Lt. & Pwr. Co. | MOOSIC—(See Avoca) Co. |
| BETHLEHEM—Bethlehem Elec. Lt. Co. | GIRARD—Town El. Plant (City) | MORRIS RUN—Morris Run Mines. |
| BIRDSBORO—Birdshoro Elec. Co. | GIRARDVILLE—Frackville & Gilberton Lt., Ht. & Pwr. Co. (See Frackville) | MORRISVILLE—Publ. Serv. Corp. of N. J. (See Trenton, N. J.) |
| BLAIRSVILLE—Citizens' Heat, Lt. & Power Co. | GILBERTON—(See Frackville) | MORTON—Faraday Ht., Power & Lt. Co. |
| BLAKELY BOROUGH—Borough Electric Light Plant (City) | GLEN LYON—(See Nanticoke) | MOUNT CARMEL—Edison Elec. Illuminating Co. |
| BLOOMSBURG—American Electric Lt. Co. | GLENOLDEN—(See Clifton Heights) | MOUNT HOLLY SPRINGS—Mt. Holly Paper Co. |
| BLOSSBURG—Blossburg Elec. Lt. & Pr. Co. | GREAT BEND—(Susquehanna) | MOUNT JOY—Elizabeth & Marietta El. Lt. Co. (Marietta) |
| BRADDOCK—Allegheny County Light Co. | GREENSBURG—Westmoreland Light, Heat & Power Co. | Manheim El. Lt. & Ht. Co. (Manheim) |
| BRADFORD—Bradford Elec. Lt. & Power Co. | GREENEVILLE—People's Elec. Lt., Heat & Power Co. | MOUNT OLIVER—(See Pittsburgh). |
| BRIDGEPORT—Norristown Electric Light & Power Co. | GROVE CITY—Union Heat & Light Co. | MOUNT PLEASANT—West Penna. El. Co. |
| BRISTOL—Publ. Serv. Corporation of N. J. | HAMBURG—Hamburg Elec. Lt., Ht. & Pr. Co. | MUNCY—Muncy El. Lt., Ht. & Power Co. |
| BROOKVILLE—Solar Elec. Co. | HANOVER—Hanover Lt., Ht. & Power Co. | NANTICOKE—Peoples' Elec. Lt., Ht. & Power Co. |
| BROWNSVILLE—Brownsville Light, Heat & Power Co. | HARRISBURG—Harrisburg Lt., Ht. & Pr. Co. | NAZARETH—Nazareth Elec. Lt. & Power Co. |
| BUTLER—Butler Lt., Heat & Motor Co. | HATBORO—Hatboro Elec. Lt. Co. | NEW BETHLEHEM—New Bethlehem Lt. & Ht. Co. |
| CALIFORNIA—Monongahela Valley Electric Co. | HAWLEY—Paupack Electric Co. | NEW BRIGHTON—Valley Elec. Co. |
| CAMBRIDGE SPRINGS—Cambridge Springs Electric Light & Telephone Co. | HAZLETON—Edison El. Ing. Co. | NEW CASTLE—New Castle Elec. Co. |
| CANONSBURG—Canonsburg Electric Light, Heat & Power Co. | HOLLIDAYSBURG—Hollidaysburg Elec. Lt. & Power Co. | NEW CUMBERLAND—(See Mechanicsburg) |
| CANTON—Canton Illuminating Co. | HOMESTEAD—Allegheny County Light Co. | NEW FREEDOM—New Freedom Elec. Lt. & NEWHAVEN—(See Connellsville) Power Co. |
| CARBONDALE—Lackawanna Valley Electric Light & Power Supply Co. | HONESDALE—Honesdale Consolidated Electric Light, Water & Power Co. | NEW KENSINGTON—Allegheny Valley Lt. Co. |
| CARLISLE—The Carlisle Gas & Water Co. | HOUTZDALE—Houtzdale El. L. & P. Co. | NEWPORT—Perry Elec. Lt., Ht. & Power Co. |
| CARNEGIE—Southern Heat, Light & Power Co. | HUGHESVILLE—Citizens' Elec. Lt. & Pr. Co. | NEWTOWN—Newtown Elec. Street Ry. Co. |
| CATASAUQUA—Lehigh & Northampton Gas & Electric Light Co. | HUMMELSTOWN—Hummelstown Elec. Lt., Ht. & Power Co. | NORRISTOWN—Norristown Elec. Lt. & Power Co. |
| CATAWISSA—City Elec. Lt. Plant (City) | HUNTINGDON—Huntingdon Gas Co. | Norristown El. Lt. Plant (City) |
| CHAMBERSBURG—Chambersburg Elec. Lt. Plant (City) | INDIANA—Indiana Provision Co. | NORTH BRADDOCK—Allegheny County Lt. Co. (See Pittsburgh) |
| CHARLEROI—Monongahela Valley Electric Co. | IRWIN—The West Penna. Lt. Co. | NORTH HUMBURLAND—Northumberland El. Lt., Ht. & P. Co. |
| CHESTER—Beacon Light Co. | JEANETTE—W. Penn. El. Co. (See Pittsburgh) | NORTH EAST—North East Elec. Lt. & P. Co. |
| CHICORA—Citizens' Light & Fuel Co. | JENKINTOWN—Jenkintown Electric Light Co. | OAKMONT—Allegheny Lt. Co. |
| CHRISTIANA—Melcher, A. J. (Owner) | JERMYN—Household Electric Light, Heat & Power Co. | OIL CITY—Citizens' Lt. & Power Co. |
| CLARION—Clarion Elec. Co. | Jermyn Elec. Lt., Ht. & Power Co. | OLD FORGE—Standard El. Lt., Ht. & P. Co. |
| CLEARFIELD—Central Penn. Lt. & Power Co. | JERSEY SHORE—Jersey Shore Electric Street Ry. Co. | OLYPHANT—Town El. Lt. Plant (City) |
| CLIFTON HEIGHTS—Citizens' Elec. Lt. & Power Co. | JOHNSONBURG—Johnsonburg El. Lt., Ht. & P. Co. | OSCEOLA MILLS—Oceola Light Co. |
| COATESVILLE—Coatesville Elec. Lt., Ht. & Power Co. | JOHNSTOWN—Citizens Lt., Heat & Pr. Co. | OXFORD—Oxford Elec. Lt. & Power Co. |
| Consumers' Electric Light, Heat & Power Co. | KANE—Kane Gaslight & Heating Co. | PARKESBURG—Parkesburg Elec. Lt., Ht. & Parsons—Standard Elec. Co. Pow. Co. |
| COLUMBIA—Columbia Elec. Lt. & Power Co. | KENNETT SQUARE—Kennett Electric Lt., Ht. & Power Co. | PATTON—Geo. S. Good El. Lt. Co. |
| CONNELLSVILLE—West Penn Electric Co. | KINGSTON—West Side El. Lt. Co. | PECKVILLE—Borough of Blakely (City) |
| CONSHOHOCKEN—Conshohocken Elec. Lt. & COPLAY—(See Catasauqua) Power Co. | KITTANNING—Kittanning Elec. Co. | PEN ARGYLE—Pen Argyle El. Co. |
| CORAOPOLIS—City Electric Light Plant (City) | Kittanning Elec. Light, Heat & Power Co. | PHILADELPHIA—American R'ways Co., Real Estate Trust bldg. |
| CORRY—Corry City Electric Light Co. | KUTZTOWN—Allentown & Reading Trac. Co. | Consolidated R'y & Lt. Co. |
| COUDERSPORT—Home Elec. Co. | Town El. Plant (City) | Interstate Railways Co. (United Pwr. & Trans. Co.) |
| CURWENSVILLE—Curwensville Electric Co. | Kutztown Elec. Lt., Ht. & Power Co. | Jandus Electric Co., Real Estate Trust bldg. |
| DANVILLE—Standard Elec. Lt. Co. | LANCASTER—Edison El. Ill. Co. | Jenkintown Light Co., Drexel bldg. |
| DAWSON—West Penn Electric Co. | Lancaster Elec. Lt., Ht. & Power Co. | Kensington Electric Co., 10th & Sansom. |
| DELTA—Delta Electric Power Co. | Lancaster County R'y & Lt. Co. | Kltson Hydro-Carbon H. & Incandescent Lighting Co., 8th & Willow. |
| DERRY STATION—Derry Elec. Lt. Co. | Safe Harbor Wtr. & Pwr. Co. | Electric Light & Power Co., 10th & Sansom |
| DILLSBURG—Dillsburg Electric Light Works | LANGHORNE—Langhorne Elec. Lt. & Pwr. Co. | Electric Co., 10th & Sansom |
| DOWNINGTOWN—Chester Valley Elec. Lt., Ht. & Power Co. | LANSDALE—Lansdale Elec. Lt. Plant (City) | Light & Power Co., 10th & Sansom |
| DOYLESTOWN—Doylestown Elec. Co. | LANSFORD—Latrobe Elec. Co. | Phila. Electric Co., 10th & Sansom |
| DUBOIS—DuBois Electric Co. | Panther Valley El. Lt., Ht. & P. Co. | Southern Elec. Lt. & Power Co., 10th & Sansom |
| DUNBAR—Dunbar Electric Co. | LANSDOWNE—Lansdowne El. Co. | Suburban Electric Co., 10th & Sansome. |
| DUNCANNON—Duncannon Municipal Plant | LATROBE—Latrobe Electric Light Co. | United Power & Trans. Co., Bullitt bldg |
| DUNMORE—Dunmore Electric Light, Heat & Power Co. | LERANON—Edison Elec. Illuminating Co. | West Penn. Electric Co. |
| EAST DOWNINGTOWN—(See Downingtown) | LEECHBURG—Leechburg Elec. Lt. & Power | PHILIPSBURG—Philipsburg Electric Light Gas, H. & P. Co. |
| EAST MAUCH CHUNK—East Mauch Chunk Heat, Power & El. Light Co. | LEIGHTON—Town owns plant | PHOENIXVILLE—Phoenix Gas & El. Co. |
| EASTON—Easton Power Co. | LEWISBURG—Lewisburg Lt., Ht. & Power Co. | PINEGROVE—(See Tremont) |
| City Electric Light Plant (City) | LEWISTOWN—Lewistown Elec. Lt., Ht. & Pr. | PITCAIRN—Allegheny County Light Co. (See City Elec. Lt. Plant (City) Pittsburg) |
| People's Electric Light & Power Co. | LIGONIER—Ligonier Electric Light Co. | PITTSBURG—Allegheny County Light Co., 610 Wood |
| People's Cons. Serv. Corporation. | LITITZ—Lititz Elec. Lt., Ht. & Power Co. | Monongahela Lt. & Pr. Co., 512 Smithfield. |
| EBENSBURG—Ebensburg Light, Heat & Power Co. | LOCK HAVEN—Lock Haven Elec. Lt. & Power | Philadelphia Co., 610 Wood. |
| EDWARDSVILLE—West Side Electric Light Co. | LUZERNE—West Side El. Lt. Co. | West Penn. El. Co. |
| ELIZABETH—Elizabeth Electric Light, Heat & Power Co. | LYKENS—Williams Valley Lt., Ht. & Power Co. | PITTSSTON—Citizens' Electric & Illuminating Co. |
| ELIZABETHTOWN—Elizabethtown Electric Lt., Heat & Power Co. | McADOO—Town El. Lt. Plant (City) | PLYMOUTH—Wyoming Valley Gas & Elec. Co. |
| ELLIOTT—Allegheny Lighting Co. | McDONALD—Citizens' Elec. Lt., Ht. & Power Co. | PORT CARBON—Port Carbon Elec. Lt., Heat & P. Co. |
| | McKEESPORT—Peoples Ice., Lt. & Storage Co. | |
| | McKEES ROCKS—Allegheny County Lt. Co. | |
| | MAHANOEY CITY—Mahanoy City Elec. Lt., Ht. & Power Co. | |
| | MANHEIM—El. Lt. Co. | |
| | MANSEFIELD—Mansfield Elec. Co. | |
| | MARIETTA—Marietta Elec. Lt., Co. | |
| | MARYSVILLE—Marysville Elec. Lt., Ht. & Power Co. | |

POTTSTOWN—Pottstown Light, Heat & Power
POTTSVILLE—Edison Elec. Illg. Co. Co.
 Anthracite El. Lt. & P. Co.
PUNXSUTAWNEY—Jefferson Electric Light,
 Heat & Power Co.
QUAKERTOWN—Borough Elec. Lt. Plant
RANKIN—Allegheny County Light Co.
READING—Metropolitan Electric Co.
 Reading Electric Co.
 Mansion El. Co.
 Reading Electric Light & Power Co.
RED LION—Red Lion E. L. & Pr. Co.
RENOVO—Renovo Edison L. H. & P. Co.
REYNOLDSVILLE—Reynoldsville Light &
RIDGWAY—Ridgway Elec. L. Co. Power Co.
ROARING SPRING—Roaring Spring Blank Book
ROCHESTER—(See New Brighton) Co.
ROYERSFORD—Phoenix Gas & El. Co.
ROCKWOOD—Rockwood Electric Light Co.
ST. CLAIR—Borough Elec. Lt. Plant (borough)
ST. MARYS—St. Mary' El. Co.
SAYRE—(See Waverly, N. Y.)
SCHUYLKILL HAVEN—Village Elec. Lt. Plant
SCOTTDAL—(See Connellsville) (Village)
SCRANTON—Economy Light, Heat & Pr. Co.
 Economy Light, Heat & Pr. Co.
 Lackawanna Light Co.
 Scranton E. L. & Heat Co.
 Scranton Illuminating Heat & P. Co.
 Suburban Electric Light Co.
SELLERSVILLE—Sellersville Electric Light &
 Power Co.
SEWICKLEY—Sewickley Electric Co.
SHAMOKIN—Shamokin Light, Heat & Power
 Co.
 Shamokin & Coal Township Lt. & P. Co.
SHARON—Shenango Valley El. Lt. Co.
SHARON HILL—(See Clifton Heights)
SHARPSBURG—City owns the plant
SHARPSVILLE—Sharpsville El. Lt. Co.
SHENANDOAH—Citizens' El. Lt. Co.
 Peoples' Elec. Light Co.
 Shenandoah Elec. Illuminating Co.
SHERIDAN—Allegheny County Lt. Co.
SHICKSHINNY—Municipal Electric Light Plant
SHIPPENSBURG—Shippensburg Gas & El. Lt.
 Co.
SLATINGTON—Citizens' El. Lt. & P. Co.
SOMERSET—Somerset E. L. Heat & Pr. Co.
SOUTH BETHLEHEM—South Bethlehem Elec.
 Light Co.
SOUTH FORK—South Fork Electric Light,
 Heat & Power Co.
SOUTH WILLIAMSPORT—Lycoming El. Co.
SPEERS—Monongahela Valley Elec. Co. (Char-
 leroi)
SPRING CITY—Phoenix Gas & El. Co.
STEELTON—Steelton Lt., Heat & P. Co.
STROUDSBURG—Stroudsburg Elec. Lt. & P.
 Co.
SUMMIT HILL—Panther Valley El. Lt., Ht. & P.
 Co.
SUNBURY—Edison Elec. Illuminating Co.
 Middle Creek El. Co.
 Sunbury & Northumberland El. R'y Co.
SUSQUEHANNA—Susquehanna County Elec. Co.
TACONY—Philadelphia El. Co.
TAMAQUA—Tamaqua Lt., Ht. & P. Co.
 Edison Elec. Illuminating Co.
TARENTUM—Borough Elec. Lt. Plant (borough)
TAYLOR—Standard Elec. Lt. Ht. & Pr. Co.
TITUSVILLE—City owns the plant
 Titusville El. Lt. & Pr. Co.
TOWANDA—Towanda Elec. Ill. Co.
TOWER CITY—Williams Valley Lt. Ht. & Pr.
 Co.
TREMONT—Tremont & Pine Grove Elec. Lt. &
 P. Co.
TROY—Troy E. L. & P. Co. P. Co.
TUNKHANNOCK—Tunkhannock Elec. Co.
TYRONE—Home Elec. Light & Steam Heating
 Co.
UNION CITY—Union City El. Lt. & Pr. Co.
UNIONTOWN—United Light Co.
UPLAND—Beacon Lt. Co.
VANDERBILT—Dawson El. Lt. & Pwr. Co.
VANDERGRIFT—Vandergrift Elec. Lt. & Pr.
 Co.
WARREN—Warren Electric Light Co. Co.
WASHINGTON—Washington Elec. Light &
 Power Co.
WATSONTOWN—Municipal Elec. Lt. Plant
WAYNE—Merion & Radnor Gas & El. Co.
WAYNESBORO—Waynesboro E. L. & Pr. Co.
WAYNESBURG—Waynesburg El. Lt. & P. Co.
WEATHERLY—Town owns the plant
WEISSPORT—Weissport Elec. Light & Pr. Co.
WELLSBORO—Wellsboro Elec. Co.
WEST CHESTER—Edison Electric Illuminating
 Co.
WEST NEWTON—Borough Elec. Lt. Co. Co.
WEST PITTSBURG—Citizens' El. Illg. Co.
WHITE HAVEN—White Haven Elec. Illg.
 Plant (W. J. Hauser, owner)
WILKES-BARRE—Wilkes-Barre Gas & El. Co.
WILKINSBURG—Allegheny County Lt. Co.
 New Electric Co. (Sec Pittsburg)
WILLIAMSPORT—Citizens' El. Co.
 Edison Elec. Ill. Co.
 Lycoming Elec. Co.

WILLIAMSTOWN—Williams Valley Lt. Ht. &
 Pr. Co.
WILMERDING—Allegheny County Lt. Co.
 (Pittsburg)
WINDBER—Windber Electric Co.
WRIGHTSVILLE—Wrightsville Lt. & Pwr. Co.
YORK—York County Trac. Co.
 Edison El. Lt. Co.
 Merchants' El. Lt., Heat & P. Co.

PORTO RICO.

MAYAGUEZ—Mayaguez Electric Co.
PONCE—Ponce El. Co.
 S. A. Luz Electrica
 Ponce Ry. & Lt. Co.
SAN JUAN—San Juan Lt. & Trans. Co.

RHODE ISLAND.

BRISTOL—Bristol County Gas & Elec. Co.
EAST GREENWICH—Phoenix El. Lt. & Coal
 Co.
NARRAGANSETT PIER—Narragansett Pier
 Electric Light & Power Co.
NEWPORT—Newport & Fall River Str. R'y.
 Newport Gaslight Co.
PASCOAG—Pascoag Fire District Lt. (City)
PAWTUCKET—Pawtucket Electric Co.
PROVIDENCE—Narragansett Electric Lighting
 Co.
WARREN—Narragansett El. Lt. Co.
WARWICK—Narragansett El. Lt. Co.
WESTERLY—Westerly Gas & Elec. Lt. Co.
WOONSOCKET—Woonsocket Elec. Mach. & Pr.
 Co.

SOUTH CAROLINA.

ABBEVILLE—Abbeville Elec. Light & Pr. Co.
AIKEN—Carolina Light & Power Co.
ANDERSON—Anderson Water, Lt. & P. Co.
BEAUFORT—Long, R. A.
BENNETTSVILLE—Town El. Plant (City)
CAMDEN—Camden Water, Lt. & Ice Co.
CHARLESTON—Charleston Consolidated Ry.
 Gas & Elec. Co.
CHERAW—Town El. Lt. Plant (City)
CHESTER—City owns plant
COLUMBIA—Columbia Elec. Street Railway
 & Power Co.
DARLINGTON—Darlington Lt. & Water Co.
FLORENCE—Florence Lt. & P. Co.
GAFFNEY—Town El. Lt. Plant (City)
GEORGETOWN—Georgetown Elec. Light Co.
GRANITEVILLE—(See Aiken)
GREENVILLE—Greenville Gas, Electric Light
 & Pr. Co.
GREENWOOD—Greenwood Wtr. & El. Lt. Plant
 (City)
LAURENS—Town El. Lt. Plant (City)
MARION—Carolina Wtr. Lt. & P. Co.
 Marion Wtr., Lt. & P. Co.
MOUNT PLEASANT—Charleston Con. Gas & El.
 Co.
NEWBERRY—Newberry Water Wks. & Electric
 Lt. Co. (City)
ORANGEBURG—Town El. Plant
ROCK HILL—Rock Hill Water, Light & Power
 Catawba Pwr. Co.
SPARTANSBURG—Spartansburg Railway, Gas
 & Electric Co.
SUMTER—Sumter Ice Light & Pwr. Co.
UNION—City Elec. Lt. & Water Works (City)
 Union Mfg. & Power Co.
WINSBORO—Town El. Lt. Plant (City)
YORKVILLE—Town El. Lt. Plant (City)

SOUTH DAKOTA.

ABERDEEN—Aberdeen Gas Co.
BOWDLE—Bowdle Roller Mill Co.
BROOKINGS—Town Lt., Wtr. & Ht. Plant
CANTON—Canton General Electric Co. (City)
CENTERVILLE—Centerville Milling Co.
CHAMBERLAIN—Chamberlain Investment Co.
CLEARLAKE—Citizens' Electric Light & Tele-
 phone Co.
DEADWOOD—Cons. Power & Lt. Co.
HOT SPRINGS—Water, Light & Power Co.
HURON—Electric Co.
LEAD—Cons. Power & Lt. Co.
MADISON—City Elec. Light Plant (City)
MITCHELL—Mitchell Electric Co.
RAPID CITY—Rapid City Electric & Gas Light
 Co.
REDFIELD—Town El. Lt. Plant (City)
SALEM—Salem Milling, Lighting & Heating Co.
SIoux FALLS—Town El. St. Plant (City)
 Cascade Milling Co.
Sioux Falls—El. Lt. & P. Co.
STURGIS—Sturgis Electric Light Co.
TYNDAL—Bourza, J. (Owner)
WATERTOWN—Kerlin-Gray Elec. Co.
WEBSTER—Town El. Lt. Plant (City)
YANKTON—Macgregor R. R. Co.

TENNESSEE

THENS—Athens Lt.
BRISTOL—Bristol Gas & Elec. Co.
BROWNSVILLE—Smith-Burt Co.
CHATTANOOGA—Chattanooga El. Co.
CLARKSVILLE—Clarkeville R'y & Lt. Co.
CLEVELAND—Cleveland Elec. Lt. Co.
COLUMBIA—Columbia Wtr. & L. Co.
COVINGTON—Town El. Lt. Plant (City)
DAYTON—Rhea County El. Lt. Co.
DYER—McCullar, S. W.
ELIZABETHTOWN—Doe River Ltg. & Pwr.
 Co.
FAYETTEVILLE—Fayetteville Elec. Lt. &
 Power Co.
FRANKLIN—Harper Electric Light & Pow. Co.
GALLATIN—City Elec. Lt. Plant
GREENFIELD—Greenfield Elec. Lt. & Wtr. Co.
GREENVILLE—Greeneville Elec. Light Co.
HARRIMAN—City Water & Lt. Dept.
HENDERSON—Henderson Electric Light Co.
HUMBOLDT—Town El. Lt. Plant (City)
HUNTINGDON—Municipal Elec. Light Plant
JACKSON—Jackson El. Lt. & Wtr. Wks. (City)
 Jackson & Suburban Street Railway Co.
JELLICO—Jellico Electric Light, Heating &
 Power Co.
JOHNSON CITY—Watauga Electric Co.
KNOXVILLE—Knoxville R'y & Lt. Co.
LEBANON—Municipal Elec. Lt. Plant
LEWISBURG—Town El. Lt. Plant (City)
McMINNVILLE—City Wtr. & Elec. Lt. Plant
 (City)
MARTIN—Martin Water & Light Plant (City)
MARYVILLE—Maryville Elec. Lt. & Pwr. Co.
MEMPHIS—Memphis Cons. Gas & El. Co.
MORRISTOWN—Morristown Water Wks. & Elec-
 tric Light Plant (City)
MOUNT PLEASANT—Mount Pleasant El. Co.
MURFREESBORO—City Gas & Electric Co.
NASHVILLE—Nashville R'y & Lt. Co.
PARIS—Paris City Light & Water Plant
PULASKI—Pulaski Elec. Lt. Plant (City)
RIPLEY—Ripley Lt., Wtr. & Ice Co.
ROGERSVILLE—Rogersville Elec. Co.
SHELBYVILLE—Boyd, J. F. (Owner)
SOMERVILLE—City Elec. Lt. Plant (City)
SOUTH PITTSBURG—South Pittsburg Elec. Lt.
 & Pr. Plant (City)
SPRINGFIELD—Springfield Elec. Plant (City)
SWEETWATER—Telephone & Improvement Co.
TRENTON—Trenton Electric Light Co.
TULLAHOMA—Town El. Lt. Plant (City)
UNION CITY—City Wtr. & El. Lt. Wks. (City)

TEXAS.

ABILENE—Abilene Elec. Lt. & Pr. Co.
AMARILLO—Amarillo Light & Water Wks.
AUSTIN—Water Works, Elec. Light & Power
 Plant (City)
BALLINGER—Ballinger Electric Light & Ice
 Co.
BASTROP—Bastrop Water & Light Co. Co.
BEAUMONT—Beaumont Ice, Lt. & Refrig. Co.
BEEVILLE—Beeville Light Co.
BELTON—Belton Light & Power Co.
BIG SPRING—L. L. Stephenson's El. Lt. Plant
BOERNE—Boerne Electric Light & Power Co.
BONHAM—Bonham Electric Light & Power Co.
 Bonham Elec. Ry., Lt. & Pr. Co.
BOWIE—Bowie Light & Power Co.
BRENHAM—Brenham Compress Oil & Mfg. Co.
BROWNWOOD—Brownwood Ice & Lt. Co.
 Brownwood Gas & El. Co.
BRYAN—Bryan Water, Ice., Lt. & Pr. Co.
CALDWELL—Caldwell Ice & Lt. Co.
CALVERT—Calvert Water, Ice & Elec. Lt. Co.
CAMERON—Cameron Water, Power & Light Co.
CISCO—Cisco El. Lt. Co.
CLARKSVILLE—Clarksville Electric Light &
 Power Co.
CLEBURNE—Cleburne Gas & El. Co.
COLORADO—Colorado Electric Light Co.
COLUMBUS—Columbus Lt. Co.
COMANCHE—Hoff & Harris
COMMERCE—Commerce Electric Light Co.
COOPER—Electric Light & Mfg. Co.
CORPUS CHRISTI—Corpus Christi Elec. Co.
CORSICANA—Corsicana Gas & Electric Co.
CROCKETT—Citizens' Light Co.
CUERO—Buchel Power & Irrigation Co.
DALLAS—Dallas Electric Lt. & Pwr. Co.
 Dallas Ice Factory Light & Power Co.
 Oak Cliff Water Supply & Electric Light &
 Standard Light & Power Co. Power Co.
DECATUR—Moore Milling Co.
DEL RIO—Del Rio Electric Co.
DENISON—Denison Light & Power Co.
DENTON—Denton Water, Light & Power Plant
DETROIT—Detroit Electric Light Co. (City)
DUBLIN—Dublin Gas & El. Co.
EAGLE PASS—Texas-Mexican Electric Light &
 EL PASO—El Paso El. R'y Co. Power Co.
 El Paso Gas & El. Co.
ENNIS—Ennis Light & Power Co.

FARMERSVILLE—Farmersville Mill & Light Co.
 FLATONIA—Flatonia El. Lt. Plant Co.
 FORT WORTH—Bound Electric Co.
 Citizens' Light & Power Co.
 City Elec. Light Works (City)
 Fort Worth Light & Power Co.
 Fort Worth & Rosen Heights St. R'y Co.
 FRANKLIN—Franklin Water & Light Co.
 FREDERICKSBURG—Stehling, C. (Owner)
 GAINESVILLE—Gainesville Light & Fuel Co.
 Gainesville El. R'y & Lt. Co.
 GALVESTON—Brush Elec. Light & Power Co.
 City Electric Light Plant (City)
 GATESVILLE—Gatesville Electric Light Co.
 GEORGETOWN—Georgetown Water & Elec. Co.
 GILMER—Gilmer Light & Ice Co.
 GOLIAD—Goliad Water & Light Co.
 GONZALES—Citizens' Elec. Lt. & Pr. Co.
 GREENVILLE—Town El. St. Plant (City)
 HALLETTSVILLE—City owns the plant
 HEARNE—Brady, P. L.
 HENRIETTA—Henrietta Light & Power Co.
 HICO—Hico Electric Light Co.
 HILLSBORO—Hillsboro Gas & Electric Co.
 HONEY GROVE—Honey Grove Ice & El. Lt. Wks.
 Honey Grove Light & Power Co.
 HOUSTON—Houston Light & Power Co.
 HUNTSVILLE—Huntsville Elec. Lt. & Ice Co.
 ITASCA—Hockaday, A. S.
 JACKSONBORO—Jacksonboro Lt. Plant
 JACKSONVILLE—Jacksonville Electric Lt. Co.
 JEFFERSON—Jefferson Ice, Light & Power Co.
 KAUFMAN—Kaufman Electric Light Co.
 KERRVILLE—Schelmer Electric Light & Power Co.
 LADONIA—City Elec. Lt. & Water Works Co.
 LA GRANGE—La Grange Electric Light Co.
 LAMPASAS—Lampasas Light & Power Co.
 LAREDO—Laredo Electric & Railway Co.
 LOCKHART—Lockhart Water Works
 LONGVIEW—Longview Ice, Light & Bottling Co.
 LUFKIN—Lufkin Lt. & P. Co.
 LULING—Luling Electric Light & Power Co.
 MCGREGOR—McGregor Art. Wtr. Co.
 MCKINNEY—McKinney Ice, Light & Coal Co.
 McKinney El. Lt. & Motor P. Co.
 McKinney Town El. Lt. Plant (City)
 MARLIN—Nathan, I. J.
 MARSHALL—Arkansas & Texas Cons. Ice & Mason—Mason Electric Light Co. Coal Co.
 MEXIA—Mexia Light Co.
 MINEOLA—Mineola Elec. Light & Ice Co.
 MINERAL WELLS—El. Lt. Plant
 Mineral Wells El. Pwr. & Htg. Co.
 MOUNT PLEASANT—Mount Pleasant El. Light Co.
 NACOGDOCHES—Nacogdoches Lt. & Power Co.
 NAVASATO—Bridges & Holley
 NEW BRAUNFELS—Landa Electric Light & Oak Cliff—(See Dallas) Power Co.
 ORANGE—Orange Ice, Lt. & Water Works Co.
 PALESTINE—Palestine Electric Light Co.
 PARIS—Paris Lt. & Pr. Co.
 PITTSBURG—Arkansas & Tex Cons. Ice & Pittsburg El. Lt. & Pwr. Co. Coal Co.
 PORT ARTHUR—Port Arthur Wtr. Co.
 QUANAH—Quanah Light & Power Co.
 RICHMOND—Richmond Elec. Lt. Co.
 ROCKDALE—Rockdale Imp. Co.
 ROSEBUD—Rosebud Light & Power Co.
 SAN ANGELO—San Angelo Wtr. Works.
 SAN ANTONIO—San Antonio Gas & Elec. Co.
 San Antonio Traction Co.
 SAN MARCOS—San Marcos Elec. Lt. & Pr. Co.
 SEGUIN—Seguin Electric Light & Power Co.
 SEYMOUR—C. C. Mill Elev. & Lt. Co.
 SHERMAN—Sherman Gas & Electric Co.
 Sherman Oil & Cotton Co.
 Sherman Water & Light Plant (City)
 STAMFORD—Stamford Town Site Co.
 SMITHVILLE—Smithville El. Lt. & Wtr. Co.
 STEPHENVILLE—Baldwin Gin Co.
 SULPHUR SPRINGS—Electric Light Co.
 TAYLOR—Taylor Electric Light Co.
 TEMPLE—Temple Electric Light Co.
 TERRELL—Terrell Electric Light Co.
 TEXARKANA—Texarkana Gas & Elec. Lt. Co.
 Texarkana Lt. & Trac. Co.
 THURBER—Texas-Pacific Mercantile & Mfg. Co.
 TIMPSON—Waterman Elec. Light Co.
 TYLER—Tyler Electric Light & Power Co.
 VAN ALSTYNE—Van Alstyne Ice Factory.
 VERNON—Vernon Light & Power Co.
 VICTORIA—Victoria Mfg. Co.
 WACO—Gas Co.
 Mutual Electric Co.
 WAXAHACHIE—Waxahachie Elec. Light Co.
 WEATHERFORD—Weatherford Electric Co.
 WHITEWRIGHT—Whitewright Elec. Co.
 WICHITA FALLS—Wichita Falls Light & Water Co.
 WINNSBORO—Winnsboro Electric Light & Water Co.
 WOLFE CITY—Wolfe City El. Lt. & Pr. Co.
 YOAKUM—Yoakum Improvement Co.

UTAH.

AMERICAN FORK—Utah Co., Lt. & Pr. Co.
 BEAVER CITY—Town owns Light Plant.
 BRIGHAM CITY—Brigham City Elec. Co.
 EPHRAIM—Town El. Lt. Plant (city)
 EUREKA—Eureka Elec. Light Co.
 HYRUM—Union Elec. Light & Power Co.
 LOGAN—Telluride Power Co.
 City El. Lt. Plant (city)
 MANTI—Manti Light & Power Co.
 MOUNT PLEASANT—Mount Pleasant Elec. Lt.
 NEPHI—Town El. Lt. Plant (city) Co.
 OGDEN—Utah Light & Power Co.
 PARK CITY—Park City Lt., Ht. & Pr. Co.
 PAYSON—City Elec. Lt. Plant (city)
 PLEASANT GROVE—Utah County Lt. & Pr. Co.
 PROVO—Telluride Pr. Trans. Co.
 The Elec. Co. of Provo.
 SALT LAKE CITY—Inter-Mountain Power Co.
 Utah Light & Railway Co.

VERMONT.

BARRE—(See Montpelier, Vt.)
 BARTON—Village of Barton (city)
 BELLOWS FALLS—Fall Mt. Electric Light & Power Co.
 BENNINGTON—Bennington Water, Lt. & Pr. Co.
 BERLIN—(See Montpelier, Vt.) Co.
 BETHEL—Bethel Elec. Light & Power Co.
 BRADFORD—Bradford Elec. Ligning Co.
 BRANDON—Neshobe Electric Co.
 BRATTLEBORO—Brattleboro Elec. Light Co.
 BRISTOL—Bristol, L. Dunmore Pr. & Tr. Co.
 BURLINGTON—Burlington Lt. & Pr. Co.
 Burlington El. Lt. Plant (city)
 CHELSEA—Chelsea Electric Light & Bobbin Co.
 CHESTER—Chester Water & Light Co.
 ESSEX JUNCTION—People's Electric Light & Power Co.
 FAIRHAVEN—Fairhaven Electric Co.
 HARDWICK—Village El. Lt. Plant (city)
 HIGHGATE—Borough Elec. Lt. Plant (Borough)
 Swanton El. Lt. Plant.
 ISLAND POND—Island Pond Electric Co.
 JOHNSON—Village Elec. Lt. Plant (Village)
 LUDLOW—Town El. Lt. Plant (city)
 LYNDONVILLE—Village Electric Light Plant (Village)
 MARSHFIELD—Mobeys Falls Electric Light & Power Co.
 MIDDLEBURY—Middlebury Electric Co.
 MONTPELIER—Consolidated Lighting Co.
 Viles Electric Light Plant
 MORRISVILLE—Village Electric Light Plant (Village)
 NEWPORT—Newport El. Lt. Co. (Village)
 NORTHFIELD—Village El. Lt. Plant (village)
 PROCTOR—Vermont Marble Co.
 RANDOLPH—White Riv. El. Co.
 READSBORO—Readsboro El. Lt. Co.
 RICHFORD—Sweet, Cummings Co.
 RICHMOND—Richmond Light & Power Co.
 ROCHESTER—Rochester El. Lt. & Pr. Co.
 RUTLAND—City Electric Co.
 Rutland Ry., Lt. & Pr. Co.
 ST. ALBANS—St. Albans El. Lt. & Pr. Co.
 ST. JOHNSBURY—St. Johnsbury Elec. Co.
 SPRINGFIELD—Springfield Elec. Co.
 SWANTON—Village El. Lt. Plant (village)
 VERGENNES—Vergennes Electric Co.
 WATERBURY—(See Montpelier.)
 WELLS RIVER—Village Electric Light Plant (Village)
 WHITE RIVER JUNCTION—Mascoma Electric Light & Gas Co.
 WILLIAMSTOWN—Consol. Ltg. Co. (Montpelier)
 WINDSOR—Windsor Electric Light Co.
 WINOOSKI—(See Burlington.)
 WOODSTOCK—Woodstock Electric Co.

VIRGINIA.

ABINGDON—Abingdon Water & Light Co.
 ALEXANDRIA—(City owns plant)
 BERKELEY—(See Norfolk)
 BEDFORD CITY—Town El. Lt. Plant (city)
 BUENA VISTA—Buena Vista Lt. & Pr. Co.
 CHARLOTTESVILLE—Charlottesville & Albemarle Ry. Co.
 CHRISTIANSBURG—City Electric Light Plant
 CLIFTON FORGE—Clifton Forge Lt. & Water Co.
 COVINGTON—Covington Light, Ice & Cold Storage Co.
 DANVILLE—Danville El. Lt. Plant (city)
 FARMVILLE—Farmville Elec. Lt. Plant (Village)
 FRANKLIN—Town Elec. Lt. Plant (Town)
 FREDERICKSBURG—Rappahannock El. Lt. & Town El. Lt. Plant (city) Power Co.
 FRONT ROYAL—Royal Elec. Lt. Plant (city)

GORDONSVILLE—Gordonsville El. Lt. & Pr. (city owns plant)
 HAMPTON—Newport News & Old Point Ry. & El. Co.
 HARRISONBURG—Harrisonburg El. Lt. Plant
 LEESBURG—Leesburg Elec. Co. (City)
 LEXINGTON—Lexington Light & Power Co.
 LURAY—Luray El. Co., Inc.
 Shenandoah Riv. Lt. & Pr. Corpor.
 LYNCHBURG—Lynchburg Trac. & Light Co.
 MANCHESTER—(See Richmond)
 MARION—Marion Lt. & Pr. Co.
 MARTINSVILLE—Town El. Lt. Plant (city)
 NEWPORT NEWS—Citizens' Ry., Lt. & P. Co.
 Newport News & Old Point Ry. & El. Co.
 NORFOLK—Berkeley Elec. Lt. & Pr. Co.
 Norfolk Heat, Lt. & Pr. Co.
 Norfolk Ry. & Light Co.
 Virginia Elec. Co.
 PETERSBURG—Virginia Pass. & Power Co.
 PHOEBUS—Newport News & Old Point Ry. & Elec. Co.
 POCAHONTAS—Pocahontas Lt. & Water Co.
 PORTSMOUTH—Norfolk, Portsmouth & Newport News Co.
 RADFORD—Radford Water Power Co.
 RICHMOND—Railways & Lt. Co. of America
 Virginia Passenger & Power Co.
 ROANOKE—Roanoke Railway & Electric Co.
 SALEM—Salem Elec. Light Plant (City)
 SOUTH BOSTON—City Elec. Lt. & Water Works (City)
 STAUNTON—Augusta Electric Co.
 Blue Ridge Light & Power Co.
 City of Staunton Electric Light Works
 SUFFOLK—Suffolk Light & Ice Co. (City)
 TAZEWELL—Tazewell Electric Light & P Co.
 WARRENTON—Warrenton Electric Co.
 WAYNESBORO—Waynesboro Electric Light Co.
 WEST POINT—West Point Water, Lt. & Pr. Co.
 WINCHESTER—Winchester Gas & Elec. Lt. Co.
 WYTHEVILLE—Stone Electric Light & Power Co.

WASHINGTON.

ABERDEEN—Gray's Harbor Ry. & Light Co.
 ANACORTES—Anacortes Water Co.
 BALLARD—Seattle Electric Co. (City)
 BELLINGHAM—Bellingham Bay Improvement
 Whatcom County Ry. & Light Co. Co.
 BLAIN—Blain Gen. Electric Co.
 BUCKLEY—Buckley Electrical Co.
 CASTLE ROCK—Castle Rock Electric Co.
 CENTRALIA—Centralia Electric Light & CHEHALIS—City owns plant Power Co.
 COLFAX—Codd & Mackenzie (Owners)
 DAYTON—Dayton Electric Co.
 ELLENSBURG—City owns plant
 EVERETT—Everett Ry., Light & Water Co.
 FAIRHAVEN—Fairhaven City Water & Power
 FOQUIAM—Gray's Harbor Electric Co. Co.
 LA CONNOR—La Connor Elec. Lt. & Pr. Co.
 MONTESANO—Montesano Light & Water Co.
 MOUNT VERNON—Franklin Bros.
 NEW WHATCOM—Bellingham Bay Improvement Co. (See Whatcom)
 NORTHPORT—Norport Electric Light Co.
 NORTH YAKIMA—Yakima Water, Light & Power Co.
 OLYMPIA—Olympia Light & Power Co.
 PORT ANGELES—City Elec. Lt. Plant (City)
 PORT TOWNSEND—The Citizens Electric Co.
 Townsend Gas & Electric Co.
 PROSSER—Prosser Falls Land & Power Co.
 PULLMAN—Town Electric Light Plant (City)
 PUYALLUP—Tacoma Industrial Co.
 RENTON—Seattle-Tacoma Power Co.
 REPUBLIC—Republic Light & Power Co.
 ROSLYN—Northwestern Improvement Co.
 SEATTLE—Citizens' Light & Power Plant
 Northwest Light & Power Co. (City)
 Seattle Gas & Elec. Co.
 Seattle-Tacoma Power Co.
 South Bend Electric Co. (See So. Bend)
 SEDRO WOOLEY—The Skagit Impr. Co.
 SNOHOMISH—Snohomish Elec. Lt. & Water Power Co.
 SOUTH BEND—South Bend Electric Co.
 SPOKANE—Washington Water Power Co.
 Puget Sound Electric Ry. Power Co.
 TACOMA—Syndicate Heat & Power Co.
 Tacoma Electric Light Plant (City)
 Tacoma Railway & Power Co.
 TEKOA—Mahoney Electric & Plumbing Co.
 VANCOUVER—Harvey, J. R.
 WALLA WALLA—Northwestern Gas & Electric Co.
 WATERVILLE—Waterville Electric Light Plt (City)
 WENATCHEE—Wenatchee Electric Light & Power Co.
 WEST SEATTLE—Town Electric Ry. Plant (City)
 WINLOCK—Winlock Electric Light Plant

WEST VIRGINIA.

BENWOOD—Ohio Valley Electric Light Co.
 BLUEFIELD—Bluestone Traction Co.
 BUCKHANNON—Buckhannon Electric Light & Water Co.
 CHARLESTON—Kanawha Water & Light Co.
 CHARLESTOWN—Charlestown Electric Light & Power Co.

CLARKSBURG—Clarksburg Elec. Light Co.
 DAVIS—Davis Electric Light Co.
 ELKINS—Valley Improvement Co.
 FAIRMONT—Fairmont & Clarksburg Traction Co.

GRAFTON—Grafton Gas & Elec. Light Co.
 HARPERS FERRY—Harpers Ferry Electric Light & Power Co.
 HINTON—Hinton Water, Light & Supply Co.
 HUNTINGTON—Camden Interstate Ry. Co.
 KEYSER—Keyser Elec. Light Co.
 KINGWOOD—Town Electric Light Plant
 MANNINGTON—Mannington Elec. Light Co.
 MARTINSBURG—Martinsburg Power Co.
 MORGANTOWN—Union Utility Co.
 MOUNDSVILLE—Moundsville Electrical Co.
 NEW CUMBERLAND—New Cumberland Light, Heat & Power Co.

NEW MARTINSVILLE—New Martinsville Light, Heat & Power Co.
 PARKERSBURG—Parkersburg, Marietta & Interurban Ry. Co.

Citizens' Plumbing & Electrical Co.
 PARSONS—Parsons Electric Light & Power Co.
 PIEDMONT—Piedmont Elec. Light & Power Co.
 Piedmont Fuel & Ice Co.
 POINT PLEASANT—Point Pleasant Water & Light Co.

RONCEVERTE—Ronceverte Electric Co.
 SISTERSVILLE—Sistersville Electric Co.
 THOMAS—Davis Coal & Coke Co.
 TERRA ALTA—Terra Alta Electric Light Plt.
 WELCH—Welch Water, Light & Power Co.
 WELLSBURG—Wellsburg Electric Light, Heat & Power Co.

WESTON—Weston Electric Light, Power & Water Co.
 WHEELING—City Electric Light Department (City)
 Wheeling Electrical Co.

WISCONSIN.

ALBANY—Warren, E. F.
 ALGOMA—Town Electric Plant (City)
 ALMA—Alma Electric Light Co.
 AMERY—Amery Electric Co.
 ANTIGO—Antigo Electric Light Plant
 APPLETON—Fox River Valley Gas & Electric Light Co.

ARCADIA—Arcadia Electric Light Plant (City)
 ASHLAND—Ashland Light, Power & St. Ry. Co.
 AUGUSTA—Ball, J. L.
 BALDWIN—Baldwin Electric Light Co. (E. J. Cove, propt.)

BARABOO—Baraboo Lighting Co.
 BARRON—Town Electric Light Plant (City)
 BAYFIELD—Bayfield Elec. Light Plant (City)
 BEAVER DAM—Beaver Dam Illuminating Co.
 BELLEVILLE—Bennett, Mrs. A. D.
 BELOIT—Beloit Electric Co.
 BERLIN—Berlin Lighting, Heating & Power Co.

BLACK RIVER FALLS—Town Electric Light Plant (City)
 BRILLION—Elec. Light Plant (Behnke & Son, owners)

BROADHEAD—Broadhead Electric Light Co.
 BURLINGTON—Burlington Electric Light & Power Co.

CAMPBELLSPORT—Dundee Water, Power & Electric Light Co.

CASHTON—Cashton Milling Co.
 CASSVILLE—Cassville Electric Light & Power Co.

CHILTON—Wisconsin Storage, Electric & Water Co.

CHIPPEWA FALLS—Chippewa Falls Water Works & Lighting Co.

COLUMBUS—Town Water Works & Electric Light Plant (City)

CUMBERLAND—Town Electric Light Plant (City)

DARLINGTON—Darlington Elec. Light & Water Power Co.

DELAVER—Delavan Light & Fuel Co.

DE PERE—De Pere Elec. Light & Power Co.

DODGEVILLE—Pearce, W. J.

DURAND—Durand Light & Power Co.

EAU CLAIRE—Eau Claire Light & Power Co.

EDGERTON—Edgerton Electric Light Co.

ELKHART—Elkhart Lake Elec. Light & Power Co.

ELLSWORTH—Ellsworth Elec. Light, Heat & Elroy Electric Light Plant

EVANSVILLE—Town Electric Light Plant (City)

FOND DU LAC—Eastern Wisconsin Ry. & Light Co.

FOUNTAIN CITY—Roettiger, H. & F.

GALESVILLE—Galesville Milling Co.

GLENWOOD—Wierschke, E. & Son

GRAND RAPIDS—Electric & Water Co.

GREEN BAY—Green Bay Gas & Electric Co.

HARTFORD—Hartford Electric Co. (See Hartford Plow Wks.)

HUDSON—City Elec. Light Plant (city)

Willow River Elec. Light & Power Co.

IRON RIVER—Water, Light & Power Co.

JANESVILLE—Janesville Elec. Co.

JEFFERSON—Town Electric Plant (City)

KAUKAUNA—Kaukauna Elec. Light Co.

KENOSHA—Kenosha Gas & Electric Co.

Kewaskum—Kewaskum Elec. Light Co.

LA CROSSE—La Crosse Gas & Electric Co.

Wisconsin Light & Power Co.

Hydro-Electric Light & Power Co.

LADYSMITH—Ladysmith Electric Light Co.

LAKE GENEVA—Equitable Elec. Light Co.

Lake Geneva Water & Light Co.

MADISON—Madison Gas & Elec. Co.

MANAWA—Little Wolf River Lbr. Co.

MANITOWOC—Manitowoc Elec. Light Co.

MARINETTE—(See Menomonie)

MARSHFIELD—Marshfield Water, Elec. Light & Power Co.

MAZOMANIE—Village Elec. Lt. Plant (village)

MAUSTON—Mauston Elec. Service Co.

MEDFORD—Medford Light & Heating Co.

MELLEN—Mellen Water & Light Co.

MENASHA—Fox River Valley Gas & Elec. Co. (Neenah)

MENOMONIE—Menomonie Elec. Lt. & Power Co.

MERRILL—Merrill Ry. & Lighting Co.

MILWAUKEE—Milwaukee Electric Railway & Light Co.

MINERAL POINT—Mineral Point Electric Light Co.

MONDOVI—Mondovi Elec. Light Co.

MONROE—Monroe Elec. Light & Power Co.

MUSCODA—Muscoda Elec. Light & Power Co.

NECEDAH—Necedah Flour Mill Co.

NEENAH—Fox River Valley Gas & Elec. Co.

NEILLSVILLE—Elec. & Water Supply Co.

NEW LONDON—New London Elec. Light Co.

NEW RICHMOND—Apple River Power Co.

OCONTO—Oconto Electric Co.

People's Land & Mfg. Co.

OSHKOSH—Oshkosh Electric Light & Power Co.

Oshkosh Gas Light Co.

PESHTIGO—Peshtigo Lumber Co.

PHILLIPS—Davis, John R. Lumber Co.

PLATTEVILLE—Platteville Elec. Lt. & P. Co.

PLYMOUTH—Plymouth Light & Power Co. (City)

PORTAGE—Portage Electric Light Co.

PORT WASHINGTON—Wisconsin Chair Co.

PRAIRIE DU CHIEN—Prairie City Elec. Co.

PRISCOTT—Merced, H. C.

RACINE—(See Milwaukee)

REEDSBURG—City Elec. Light Plant (city)

RHINELANDER—Rhinelander Lighting Co.

Rhinelander Power Co.

RICE LAKE—Rice Lake Water Works Co.

RICHLAND CENTER—Richland Center Electric Light Plant (City)

RIPON—Ripon Light & Water Co.

RIVER FALLS—Town Elec. Light Plant (City)

SHEWANO—Town Electric Light Plant (City)

SHEBOYGAN—Sheboygan Lt., Pow. & Ry. Co.

SHEBOYGAN FALLS—Weisse, Chas. S. & Co.

SOLDIERS GROVE—Soldiers Grove Elec. Co.

SPARTA—Newton's, O. I. Sons Co.

SPRING GREEN—Elec. Light Plant (City)

STANLEY—Northwestern Lumber Co.

STEVENS POINT—Stevens Point Lighting Co.

STOUGHTON—Stoughton El. Light Plant (City)

STURGEON BAY—Town Elec. Lt. Plant (City)

SUPERIOR—Superior Water, Light & Power Co.

TOMAH—Tomah Electric & Telephone Co.

TOMAHAWK—Elec. Water & Telegraph Co.

TWO RIVERS—Town Water & El. Plant (City)

VIROQUA—Viroqua Elec. Light Co.

WASHBURN—Washburn Elec. Lt. & Power Co.

WATERTOWN—Watertown Electric Co.

WAUKESHA—Waukesha Gas & Electric Co.

WAUPACA—Waupaca Elec. Light & Ry. Co.

WAUPUN—Town Electric Light Plant (City)

WAUSAU—Wausau Elec. Co.

WEST BEND—Elec. Lt. Plant (Adam Kuehlthau, owner)

WEST SUPERIOR—Superior Water, Lt. & P. Co.

WEYAUWEGA—Weyauwega Elec. Light Co.

WHITE WATER—White Water Elec. Light Co.

WYOMING.

CHEYENNE—Cheyenne Light, Fuel & Power Co.

CUMBERLAND—Union Pacific Coal Co.

EVANSTON—Evanston Elec. Light Co.

GREEN RIVER—Green River Elec. Lt. & P. Co.

HANNA—Union Pacific Coal Co.

LANDER—Lander Elec. Light & Power Co.

LARAMIE—Laramie Light & Power Co.

NEW CASTLE—Kinney, Peter

RAWLINS—Rawlins Elec. Light & Fuel Co.

ROCK SPRING—Union Pacific Coal Co.

SHERIDAN—Sheridan Electric & Power Co.

Electric Light Fixtures

(See Gas & Electric Light Fixtures, Mfrs. & Wholesalers)

Electric Light Poles

(See Poles, Iron & Steel, Flag & Street; also Ties, Poles & Posts)

***Electric Light Reading Lamps & Portables**

BRADLEY & HUBBARD MFG. CO., Meriden, Conn. (See adv. index, end of book)

Electric Light Reflectors

(See Reflectors.)

Electric Light Shifter

Kemmerer Electric Light Shifter Co. ("Kemmerer"), Weissport, Pa.

Electric Lighting Plants for Yachts

Herreshoff Mfg. Co., Bristol, R. I.

Electric Lighting Sets

U. S. Rapid-Fire Gun & Power Co., Derby, Conn.

Electric Motor Mfrs.

(See Dynamo & Motor Mfrs.; also Motors of Various Kinds)

Electric Novelties

Electric Appliance Co. ("Morse High Grade Electric Belts," Electric Insoles, Inhalers, etc.), Burlington, Kans.

Ohio Electric Works, 76 Elm, Cleveland, O.
 Scribner, J. W., & Co., Tonawanda, N. Y.

Electric Porcelain Supplies

(See Cleats, Porcelain & Clay)

Electric Power & Lighting Machinery

(See also Dynamos & Motors; also Generators, Various Kinds)

Akron Electric Mfg. Co., Akron, O.

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. & branch offices, end of book)

American Engine Co., Bound Brook, N. J.

C. & C. Electric Co., 149 B'way, New York

When writing to firms whose names appear in this book please mention

HENDRICKS' COMMERCIAL REGISTER.

Crocker-Wheeler Co., Ampere, N. J.; 39 Cortlandt, N. Y.
ELEKTRON MFG. CO., Springfield, Mass. (See adv. index & branch offices, end of book)
 Fort Wayne Electric Works (Inc.), Fort Wayne, Ind.
GENERAL ELECTRIC CO., Schenectady, N. Y., & 44 Broad, N. Y. (See adv. below & branch offices, end of book)
 Knoblock-Heideman Mfg. Co., South Bend, Ind.
 Maine Electric Co., Portland, Me.
 Northern Electrical Mfg. Co., Madison, Wis.
PHOENIX ELECTRIC COMPANY, Mansfield, O. (See adv. index, end of book)
SPRAGUE ELECTRIC MFG. CO., 534 W 34th, New York. (See adv. index & branch offices, end of book)
 Sturtevant, B. F. Co., Hyde Park, Mass.
 Western Electric Co., 259 S. Clinton, Chicago, Ill., & 57 Bethune, N. Y.
WESTINGHOUSE ELECTRIC & MFG. Co., Pittsburg, Pa., & 120 B'way, New York. (See adv. index & branch offices, end of book)

*Electric Protective Devices

JOHNS-PRATT CO., THE ("Noark")
 Fuses & Accessories, Hartford, Conn.

Electric Railway Supplies

(See Railway Supplies, Electric)

Electric Speed Controllers

(See Controllers, Electric Speed)

Electric Switches

(See Switches, Various Kinds)

Electrical Engineers & Contractors

See also Contractors, Electric Railway;
 also Electric Light, Central Stations;
 also Electrical Supplies;
 also Dynamo & Motor Mfrs.

(For Manufacturers of Electrical Specialties
 see Index of Contents)
 (Star (*) indicates firms who do Dynamo Wiring
 and contract to install complete
 Electric Plants)

ALABAMA.

ANNISTON—Robinson & Finch
 Robinson Plumb. & Electric Co.
BIRMINGHAM—Birmingham Electric Co.
 Hunt Electric Co., 2010 Third av.
 Myatt, M. A., 3d av & 20th
 *United Electric Co.
ENSLEY—Ensley Electric Co.
MOBILE—Flock, J. T. & Co.
MONTGOMERY—Mosley-Haigler Co.
 Murphy, W. J.
OXFORD—A. C. Stucky & Co.
TALLADEGA—Hawley, F. L.

ARIZONA.

FLAGSTAFF—Flagstaff Electric Light Co.
TUCSON—Tucson Electric Light & Power Co.
PHOENIX—Evans, Wm.
 Strong, Wm. N.
TUCSON—Gardiner, Worthen & Goss Co.

ARKANSAS.

FAYETTEVILLE—Hix, W. J. & Bros.
 McLindon, J. H.
FORT SMITH—Fort Smith Electric Supply Co.
 Masters, F. M.
 Monist & Brown
 Vesey Electric Construction Co.
 Wright, Ed.
HELENA—Rawlings, A. P.
HOT SPRINGS—Sullivan & Walker
JONESBORO—Carville, A. F.
LITTLE ROCK—Brown Electric Co.
 *Electric Construction Co.
 Martin-Reynolds Electric Co.
 Treadway Gilam Electric Co.
PINE BLUFF—Pine City Electric Co.
TEXARKANA—Texarkana Gas & Electric Light
 Imperial Electric Co.
 Lennard, O. L.
 McChesney, L. P.

CALIFORNIA.

ALAMEDA—*Elmer, R. G. Electric Co.
BAKERSFIELD—Bakersfield & Kern Elec. Co.
BERKELEY—Martiner Bros. Electric Co.
 Putzker, Otto A.
 Sleeper, George
CORONA—Southwest Electric Co.
EUREKA—Buhne, H. H. Co.
 Cheeney, Kelly & Reld
 Hanson Mercantile Co.
FLORISTON—Truckee River Gen. Electric Co.
FRESNO—McShany, C. T.
 Steger, C., Electrical Works
 White & McSherry
 Woodill & Hulse Electric Co., 108 N. 3d
FULLERTON—Adams, J. H.
 White, C. De Lancey
LOS ANGELES—Big Four E. & M. Co., 219
 Commercial
 C. O. D. Electric Works, 219 Temple
 Consolidated Electric Co., Byrne bldg
 Electrical Construction Co., 312 W 6th
 Foulkes, Thos., Braly bldg
 Gans Bros., 118 Wilmington
 Jones, C. A., 800 E 15th
 Keese, W. I., Lankershim bldg
 Kirkpatrick, J. C., 811 E 11th
 Leach, E. J., 2203 E 4th
 Locke Engineering Co., 1800 Vermont St.
 Longstreth Electric Co., 639 S Spring st
 Masson, R. S., Pacific Elec. bldg
 Newberg, F. E. & Co., 125 W 3d
 Pacific Coast Mfg. Co., 126 S Los Angeles
 Perry Electrical Works, 1330 Newton
 Smith, L. J., 844 Maple av
 South California Elec. Co., 121 W 3d
 Thye, M. P. & Co., 114 E 3d
 Western Electric Works, 334 S Main
MODESTA—Aulbey & Weeks
OAKLAND—Kimball, R. E., Fruitvale ave &
 King, G. J., 1385 B'way E 14th
 Klein, Edw., 522 Telegraph
 Lonergan & Wilson, 432 9th
OROVILLE—Gibson, Martin
PALO ALTO—Shrewsbury & Smith
PASADENA—Bartlett, G. M. Co.

Ralphs, W. D.
PETALUMA—Ortman, W. H., City Hotel
PORT RICHMOND—Tonysing, Geo. W.
POMONA—Overholtzer, O. L., 310 W 2d
 Pierce, L. W., 2d & Thomas
REDDING—McCormick, Saeltzer Co.
REDLANDS—Redlands Electrical Co.
REDWOOD CITY—Shrewsbury, W. A.
RIVERSIDE—Himes Bros.
 Edison Electric Co.
 Southwest Electrical Co.
SACRAMENTO—Central California Electric Co.
 Electrical Supply Co.
 Gregory & Schneider
SALINA—Bashline, J. R.
 Fowler, B. G.
SAN BERNARDINO—Downer, Fred., 432 Court
 San Bernardino Electric Co.
 Southwest Electric Co.
SAN DIEGO—*Baker, C. W.
 Southern Electrical Co.
SAN FRANCISCO—Barthels, Arthur, 523 Pine
 Baxter, B. H. & Co., 31 2d
 *Brooks-Follis Electrical Corp., 521 Mission
 California Constr. Co., Rialto bldg
 *California Electrical Works, 642 Folsom
 Consumers' Electric Association, 524 Sutter
 Columbia Electric Sign Works
 Cory, Meridith & Allen (Consulting), 331
 Decker Electric Co., 157 Minna
 Electric Repair & Const'n Wks., 491 Fell
 Electrical Construction Co., 606 Mission
 *Electrical Engineering Co., 509 Howard
 General Electric Co., Crossley bldg
 Hall, Leon M., Kohl bldg
 Healds School of Mines & Engineering, 130
 Union sq av
 Henzel, G. L. Electric Co., 2290 Bush
 *Herzog & Dam, 105 Main
 *Hetty Bros., 124 Eddy
 Independent Elec. Construction Co., 31 2d
 *Heudy, Joshua Machine Works, 38 Fremont
 Kilbourn & Clark Co., 519 Mission
 *Klein, Jno. M. Electrical Works, 421 Mont-
 Levy, M., Co., Inc., 1711 Polk gomery
 Mangelsdorf, Wm. Co., 40 New Montgomery
 McWhirter Electric Co., 457 Valencia
 Mangelsdorf, Wm. Co., 40 New Montgomery
 National Electric Contracting Co., 1708
 Devisadero
 Occidental Electrical Co., 1711 Polk
 *Sau Francisco Electrical Co., 507 Market
 *Standard Elec. Construction Co., Rialto
 Shoenberg El. Co., 927 Market bldg
 *Union Iron Works, 202 Market
 *Wass, D. D., 34 East South
 Weidenthal-Gosliner Electric Works, 742
 Will & Flick Co., 57 3d Mission
SAN JOSE—Garden City Electrical Co.
 Hellwig, Reinhart
SAN LUIS OBISPO—Osgood, Chas.
 Payne, E. M. & Co.
 San Luis Supply Co.
SANTA BARBARA—Reynolds, J. S.
SANTA CLARA—Duncan, L. F.
 Elliott, S. A.
 Huzleson & McVay
SANTA CRUZ—Insell, H. G.
SANTA ROSA—Cherry, F. E., 709 4th
 McConnell, Mark
SONORA—Cal. Electrical Eng. & Plating Co.
STOCKTON—Clifford, J. E.
 Standard Electrical Works.
SUNNYVALE—Shormau, C. W.
WATSONVILLE—Baird & Davis, 132 Main
 Burbeck & Co.
YREKA—Cady, C. C.
 Cooper, W. L.

GENERAL ELECTRIC COMPANY

INDUCTION AND DIRECT CURRENT MOTORS FOR POWER PURPOSES OF ALL KINDS

ELECTRIC LOCOMOTIVES FOR MINE HAULAGE

General Electric Motors are now installed in textile mills, machine shops, paper mills,
 grain elevators, steel plants, mills, mines, pumping plants, docks and steamships.

GENERAL ELECTRIC COMPANY OF NEW YORK, U. S. A.

PRINCIPAL OFFICE: SCHENECTADY, N. Y.

NEW YORK OFFICE: 44 BROAD STREET.

Sales Offices in all large cities in the United States.

For Great Britain and Ireland:

THE BRITISH THOMSON-HOUSTON CO., Ltd.,

Rugby and 83 Cannon St., London, E. C.

COLORADO.

BOULDER—Mudd, D. A., 1527 5th
Shinkle, Wm., 2825 5th
COLORADO SPRINGS—Central Electric Co.
Colorado Springs Electric Co.
CRIPPLE CREEK—Nash, Michael
DENVER—*Campbell, Benedict F., 1539 Welton
*Carstarphen Electric Co., 1520 Court pl
*Dawson, E. C., 1400 Curtis
*Denver Electric Wiring Co., 1618 Arapahoe
*Denver Engineering Works Co., 30th & Blake
*Denver Novelty Works & Electric Co., 1518 Lawrence
*Doss Bros. Electric Construction Co., 1731 Champa
*Electrical Supply & Construction Co., 1522 Stout
*Flint-Lomax Elec. & Mfg. Co. (Eng. & Consrs.), 1400 Delgany
*General Electric Co. (also Mfrs.), Kittredge bldg
*Miller & Hoppin Electric Co., 713 17th
*Mountain Electric Co., 1623 Glenarm
*New England Electric Co., 1551 Blake
*Nickerson-Flohr Electric Co., 317 16th
*Pierce Electric Co., 1623 Glenarm (Wiring)
Robb, W. J., 1631 Champa
*S. S. Electric Co., 214 15th
*Sechrist, Albert Mfg. Co., 1713 Logan av
SILVERTON—Holt, M. B.
*Smith, Thos. H., 1730 Champs (Repair)
Western Electric Co., 1175 S 7th
Wilkes, Gilbert & Co., 435 17th
PUEBLO—Ebenback, Fred. & Co.
*Pueblo Electric Co.
Star El. Co.
VICTOR—Nash & Gilman

CONNECTICUT.

ANSONIA—Burr, C. B., 100 Main
BRIDGEPORT—Gale, W. W. & Co. (Inc.) 237
Kilpatrick & Hotz Co., 88 Cannou State
DERBY—Biever, N. L.
Lenihan, William
Lombardi, G.
GREENWICH—Gale, E. E.
BRISTOL—Stedman & Co., 41 N Main
Voorhees, Nelson A., 152 Main
HARTFORD—*City Electrical Co., 753 Main
Clarke, William, 22 Church
Corron Wm. R. (Consulting), 36 Pearl
Halliday, W. H., 131 Front
*Knox, Charles N., 210 Pearl
Lee, H. K., 223 State
Richardson, D. A. Engineering Co., 36 Pearl
*Rice & Baldwin Electrical Co., 214 Pearl
Vintou, Harry F., 8 Haynes
MANCHESTER—Palmer, W. R.
MERIDEN—Cook, A. E., Morse & Cook bldg
Morse, H. W., 33 State
MIDDLETOWN—Carr, A. O.
Francis, O. R.
NAUGATUCK—Regan, E. C.
NEW BRITAIN—Butler El. Co.
Covill, C. A., 63 Church
NEW HAVEN—*Elm City Engineering Co., 61 Orange
Dean, W. F., 42 Church
*Gale, W. W. & Co., 64 Center
*New England Engineering Co., 123 Court
Pieron, Frank & Co., 144 Orange
Simmons, Geo. H., 315 Orchard
NEW LONDON—Gillette, Vibber & Co.
New England Engineering Co.
Raub, Ch. B.
*Thames Electric Co.
NORWICH—Adam & Twist
ROCKVILLE—Dickinson, A. T.
SHELTON—Tomlinson, W. W.
Wilson, Ch. M.
SOUTH NORWALK—Dow, C. E., 112 Wash.
Reed & Volk El. Co.
STAMFORD—Church, Lewis
N. E. Engineering Co.
TERRYVILLE—Haering, George W.
WALLINGFORD—Lee, H. I.
WATERBURY—*Chapman, Geo. M. & Co., 43 E Main
*New England Engineering Co., 31 W Main
Waterbury Electric Co. (Wiring, etc.), 48
Wlehn, Chas. C., 184 S Main Jefferson
WILLIMANTIC—Eastern El. Co.

DELAWARE.

LAUREL—Richardson, H. L.
WILMINGTON—Brown, Emory O.
Brown, Broman & Co.
*Garrett, Miller & Co.
Lawton, William
Merrill, Buckmaster & Co.
Moore, R. E. Co.
National Engineering & Electric Co.
Wendt, John

DISTRICT OF COLUMBIA.

WASHINGTON—Angle, Percy S. & Co., 1922 14th, N. W.
Balser, A. C. & Co., 3322 M. N. W.
*Brown, Ira B., 1413 G. N. W.
Carroll Electric Co., Bond bldg
Electric Construction Co., 713 14th, N. W.
Ellerbrook, Geo., 475 E. S. W.
Hayes, L. L., 1427 P. N. W.
Heine, Wm. A., Corcoran bldg
Henke, C. E., 631 Pa. av, N. W.
Hyam, Philip C., Jr., 918 F. N. W.
Leonhard, F. W., 502 12th, N. W.
McIntyre, Elwood W., 224 C st., N. W.
Metzel, Robert F., 910 E. N. W.
Miller, John A., 804 E. N. W.
National Electric Supply Co., 1330 N. Y. av, N. W.
Ran, Jno. C., 524 12th, N. W.
Repetti, J. S., 149 B. S. E.
Saxton, E., 841 Bladensburg rd, N. E.
Schneider's C. Sons, 1207 F. N. W.
Smith, Ed. H., 473 C st, N. W.
Thompson, Wm. A., 462 Md. av, S. W.

FLORIDA.

DAYTONA—Pettepher, J. C.
FERNANDINA—Mann & Swain
FORT MEYERS—Ireland, George F.
JACKSONVILLE—Beerbower, L. F.
Brooks & Ingram
Electrical Supply & Construction Co.
*Florida Electric Co. (Power & Lighting, etc.)
Southern El. Co.
Wightman & Farwell
KEY WEST—Island City El. Wk. & Supply Co.
LAKE CITY—Evans, J.
MIAMI—Robinson, Edw. A., Ave D
PENSACOLA—Dunham, J. C., 114 W. Strong
Durham, W. A., 403 W. Romana
King & Runyon, 506 S. Palafox
Turner, H., 17 S. Palafox
TAMPA—Metcalf & Underwood, 7th av
Schwan & Gaylord, 1426 Franklin
Vaughn, John F.

GEORGIA.

ATLANTA—Campbell Electric Co. (Repairs of all kinds), 18 E. Mitchell
*Carter & Gillespie Electric Co., 40 N Broad
Empire Electric Co., N. Forsyth
Southern Construction Co.
Watson-Flagg Engineering Co., 10 W Alabama
Westinghouse Electric & Mfg. Co., Empire bldg
AUGUSTA—Brill Electric Co.
Henry, J. A.
Mitchell, B. B.
*Moore & Edenfield Electric & Mfg. Co.
BRUNSWICK—Wise, Rufus
COLUMBUS—*Hill, P. N.
DALTON—Hamilton, W. T. & Co.
GRIFFIN—Davis, E. H.
MACON—Putzel, Morris
Southern Electric Supply Co.
ROME—Woodruff Electric Co.
SAVANNAH—Abrahams & Putzel
*Frierson, Norton
VALDOSTA—Stuckey, C. W.
WEST POINT—Hudmon & Zachry.

HAWAII.

HONOLULU—Hall, E. O., King st.
Owens, Guy, Union st.
Von Kamin Young Co., Al. Young Hotel

IDAHO.

BOISE—Boise El. Supply Co.
Mickle El. Co.
HAILEY—Rieby, S. B.
IDAHO FALLS—Griffith Cash Hardware & Plumbing Co.

ILLINOIS.

ALTON—Davis-Jewett Elec. Co.
Haley & Mather
AURORA—Karoly, Chas. S.
BELLEVILLE—Atwood, L. C.
Procasky, Ch.
BELVIDERE—Greenlee, D. P.
BLOOMINGTON—Cass, R. M.
Collins, Harry S.
Gray, James
CARROLLTON—Hough, Thos., Jr.
CHAMPAIGN—Gresham, Saml. D.
Haley, Arthur E.
CHARLESTON—Brooks, F. A.
CHICAGO—*Aaron Electric Co., 141 S Clinton
Alloway Electric Co., 204 Dearborn
*Arnold Co. (Complete Power Plants, etc.)
Marquette bldg
*Badt, F. B. (Engineers & Contractors, Complete Power & Lighting Plants), Monadnock bldg

Becker Bros. (Repairs), 68 W Wash'n
Bierdemanu, Richard C., 364 Lincoln av
Blumenthal Sons Co., 172 Wash
Brennan Electric Construction Co., 172 Washington

Burke El. Co., 804 Fisher bldg
Campbell, W. A. & Co., 193 E 31st
Carman & Hartman, Railway Exchange
Chicago Edison Co. (Repair Shops, etc.), 76 Market, office 139 Adams
Chicago Engineering & Construction Co., Grt. Northern bldg
Clark El. Meter Co. (Repairs), 141 S Clinton
*Commonwealth Electric Co. (Light, Power & Construction), 139 Adams
Collins Construction Co., 92 La Salle
Conover, Geo. W., 135 Adams
Crumm, H. W. & Co., First Nat. Bk. bldg
Cuthbert & Black (Eng. & Contrs.), 271 Madison

Dalkman Constr. Co., 106 La Salle
Don, D. J. & Co., 215 5th av
*Doty, C. E. & Co., 88 Washington
Duffy, Jos. J., 327 Elm
Eaton & Prince Co., 76 Nugh st
Electrical Installation Co., Monadnock blk
Emmons Electric Construction Co., 84 La Salle
Erwin & Co., 56 Dearborn
Fairbanks, Morse & Co., Franklin & Monroeham Co., 140 Dearborn
Faunce, A. B. & Co., 164 Dearborn
Frantzen, A. Co., 92 Van Buren
Freeman, Ernest Co., 356 Dearborn
Garden City Electric Co., 125 Clark
*Gates, J. Holt & Co., Monadnock blk
General Electric Co., Monadnock blk
Gohl, Frank L., 1753 N Ashland av
Gould Co., 24 W Canal
*Gregory Elec. Co. (Power, etc.), 60 S Clinton
Halpin, J. J., 305 W 66th
Hamburger, A. M. & Co., 89 43d
Haschke, Julius E., 598 W Monroe
Hauser Co., 271 E Madison
Hewes, A. M., 1517 Monadnock bldg
Hilly, H. T., 145 La Salle
Honston, Harry F., 186 E Washington
Irving, W. R., 355 Dearborn
Johnson, Christian, 134 Van Buren
Jones, Arthur Co., Old Colony bldg
Kaestner, Ch. & Co., 241 S Jefferson st
*Kochler Bros. (Engineers & Contractors), Fisher bldg

*Kutsch, L. W., 308 Dearborn
Leach, L. L. & Son, 204 Dearborn
Lincoln, F. W., 505 E 39th
*Lounsberry, Eaton & Co., 225 Washington
McFell Electric Co., 303 Dearborn
McMillan, Robert S., 40 Dearborn
Maltby, A. J., 803 Grt. Northern bldg
Maural & Co., 804 Fisher bldg
Mechanics Electrical & Mach. Repair Shop, 91 E Lake

Moffett & Rose, 247 E Randolph
Myers, L. E. Co., Monadnock blk
North American Ry. Constr. Co., Monadnock blk

Northwestern El. Co., 71 W Washington
Parker, John, 130 Lincoln av
Peterson, H. A. Mfg. Co., 1326 Roscoe
Pierce El. Co., 131 La Salle
Reed, W. S., First Nat. Bk. bldg
Reinke, C. F., 489 W Huron
Reliance El. Co., 254 Ogden av
Rome El. Co., 204 Dearborn
Rosenfeld, Max, 367 E. North av
*Roth Bros. & Co., 27 S Clinton
Schippers Electrical Construction Co., 185 Dearborn
Schlund, Ch. W., 32 Rush
Schulman, A. S., 164 Dearborn
Searles, A. M., 741 Monadnock bldg
Smith, Frank, 95 22d
Steinberger, Anthony, 313 W Madison
Stevens Engineering Co., The Rookery
Stuart, Sanner & Co., 34 Clark
Summers, L. L. & Co. (Power & Lighting Plants), 84 Van Buren

Talbot & Holst, 113 E 22d
Tack Electric Co., 324 Dearborn
Tektomins, Geo. C., 134 Van Buren
Tegtmeyer, John C., 5755 S Halsted
Tripp & Co., 111 Fifth av
Wadeford Electric Co., 204 Dearborn
*Westinghouse, Church, Kerr & Co. (Engineers & Constructors), 171 La Salle
White City El. Co., Grt. Northern bldg
Wickum, Jno. A., 34 Clark
Wilson, G. D., Electr. Constr. Co., 43 S Witt, Julius F., 151 43d Canal

COLLINSVILLE—Collinsville El. Constr. Co.
DANVILLE—Allen, Thurman D. El. Co.
Eader, W. R. & Co., 28 W North
Marrs-Tanner El. Co., 25 W North
DECATUR—Decatur Electric Co.
Electric Supply & Fixture Co.
EAST ST. LOUIS—Brodericks, Chas., 20 N Main
EDWARDSVILLE—Gillespie, C. E.
EFFINGHAM—Busbor, D. & Son
Gray, R. A.

ELGIN—Elgin El. Constr. Co., The Spurling
ELMHURST—Puntnam, H. H.
ELMWOOD—*Phelps, Wm. J.
EVANSTON—Wright, D. E.
FLORA—Friend, T. J.
GALENA—Asmus, Chas.
Meyers, John
GALESBURG—Collender, F. Edw.
*Galesburg Elec. Motor & Power Co.
GRANITE CITY—Davis El. Co.
Independent El. Co.
JACKSONVILLE—Furman, B. C.
JOLIET—Barber, W. C.
Blackhall, I. J.
KANKAKEE—Deebark, Frank E.
LA GRANGE—Cadwallader, Bassett
LAKE FOREST—Hamer, H. L.
LINCOLN—Le Wasson Co.
LICHTFIELD—Brown, W. W.
Dankliff, Henry
LOCKPORT—Waterman, Ch. S.
MARENGO—Knowt, H. D.
MARSELLES—Bond, J. E.
Quinn, C. W.
MOLINE—Burtchael, Thos. A.
Electric Construction & Machinery Co.
Morris, G. O.
Tri-City Electric Co.
MORRIS—Ridgway, F. W.
Miller, W. C.
Sachse, C.
MORRISON—Cloyd, Jas. T.
MOUNT PULASKI—West & Vail
MOUNT VERNON—Tanner, A. C.
OAK PARK—Clifton, J. P.
Dean, Wm.
Elsom, Wright.
PARK RIDGE—Leeds, David
Taube, W. J.
PEKIN—Albertson, R. W.
Crocoley, A. H. & Co.
PEORIA—*Crawley Electric Co., 201 S Jefferson av
*Feger Electric Co., 132 N Adams
Illinois Electr. Mfg. Co., 1220 S Adams st
Nopsinger, W. C., 210 S Jefferson
Royal Electric Co., 602 Main
PERU—Helmig, Hy., Jr., & Co.
PITTSFIELD—Linville, R.
PRINCETON—Glyn, John
McClain, Aloy
QUINCY—Best, B., Plumbing & Steam Heating
Gunther Hardware Co.
Hickman, Wm. V.
Lubbert & Giesing
Miller, Butler & Nessler
Niswander, J. L. & Co.
ROCHELLE—Taylor, C. I.
ROCKFORD—Kilburn, S. A.
Schuster, Paul B.
Sells, Miller & Santee Co.
Warner, C. F. & Co.
ROCK ISLAND—*Electric Construction & Machinery Co.
Robb, Will A.
Rock Island Electr. Constr. Co.
Tri-City Electric Co.
Wasson, B. E.
STAUNTON—Adler, G. I.
Fritz, H. G.
Kaseman, J. C.
Miller & Curdle
TUSCOLA—Culver Co.
Goodson, Earl
Senteney, H. G.
URBANA—Rock, R. L.

INDIANA.

(See also Electrical Supplies)

ANDERSON—Chawning, Jno. R.
Kinkade, N. I.
BLOOMFIELD—Smith, I. H.
BLOOMINGTON—Hrissender, W. A.
Whitson, W. P.
BLUFFTON—Melvin Davis
Stone & Stone
BOONVILLE—Kellerjohn, Charles
BRAZIL—Bryson, George G.
Hawkins, O. C.
BREMEN—Haines & Herein
BROWNSTOWN—Brownstown Water & Light Co.
CARLISLE—Risniger & Ellis
CICERO—Arduser, C. & Co.
CLAY CITY—Clay City Electric Light Co.
CLINTON—Clinton Elec. Light & Power Co.
Mills, H. N.
COLUMBIA CITY—Briggs, Stephen
Electric Construction Co.
Garber, S. F., 208 S. Wayne st.
COLUMBUS—Schwartzkopf, J & Son
COVINGTON—Yount, H. C.
CRAWFORDSVILLE—Carr, L. W.
Irwin, O. C. & Co.
DECATUR—Rose, A. E.
Spencer, W. G.
ELKHART—Elkhart Electric Construction Co.
Garl, R. E.
Reid, B. H.
Swoffield, R. Q.

EVANSVILLE—Berry, D. E. & Co., 30 Main
Heimann, David J., 215 U 1st
Kratz Brothers
Metzner, L. Co.
Swanson, A. L., 316 U 2d
Wolff, Frank X., 211 U 2d
FAIRMOUNT—Hardy, Walter
FORT WAYNE—*Braun, W. A.
*Edmunds Electric Construction Co.
*Fort Wayne Elec. Construction Works
*Hattersley, A. & Sons
Houser, D. E.
Koch Construction Co.
Martiu, Joseph P. & Co.
*Olds, C. L. Construction Co.
Rolf, Albert
*Zimmerly, F. J. & Co.
FRANKFORT—Kelly, James S.
Reliable Electric Co.
FRANKLIN—Whitesides, V. Francis
GOSHEN—Howell, O. D. & Son
GREENCASTLE—Electric Light Co.
GREENFIELD—Bauks, A. J. & Son
G. H. Grant Electric Co.
GREENSBURG—Stadley, Nolan B.
HAMMOND—Craick, William, 86 State
Wartena, Luther
HUNTINGTON—Bartlett & Frazier
Fulton, Herman
INDIANAPOLIS—Americau Engineering Co.,
Traction Bldg.
American Light & Water Co., Lemkis Bldg.
Balsley, R. O., Elec. Co., 471 S. Pine
Balz, Chas. P., 226 Mass. av.
Batley, W. J., Elec. Co., 220 W. Ohio st.
Brown, Guy C., 2512 N. Capitol av.
Carman & Fryer, 330 E. Market
Cheyne, F. H., Electric Co., 124 N. Penn
*Commercial Electric Co. (also Mfr. Generators etc.), 21st & Northwestern av.
Farrell, J. S. & Co., 144 N. Illinois
Fleury, Louis A., Jr., Builders' Exchange
Fuller, V. B., 1510 S. East st.
Hatfield Electric Co., 36 S. Meridian
Holliday, D. F., 2864 Sutherland av.
Meier, El. & Elevator, 110 W. Georgia
Morris, E. C., 2530 Central av.
Pavey, Frank H., 111 E. St. Clair
Portal & Vestal Elec. Co., 104 N. Delaware
Ryan Construction Co., State Life Bldg.
*Sanborn-Marsh Electric Co., 115 N. Illinois
Scobey Elec. Construction Co., 527 N. Delaware av.
Standard Elec. & Repair Co., 33 W. Chesapeake
Whitney, G. O., 2126 Northwestern av.
Wolff, H. E., 1536 Ashland av.
KOKOMO—Kokomo Elec. Construction Co.
LAFAYETTE—Hinkston, C.
*Moore, Wilbur G.
Overesch & Werkhoff
Sterling Electric Co.
Wolver Electric Co.
LAWRENCEBURG—Yunker, A. G.
LOGANSPOET—Blackford, J. W.
Lux Elec. Construction Co.
Simons, Charles, 318 Pearl
MARION—Beshore, Charles
Case, Louis
*Gillespie, L. W. & Co. (Complete Lighting Plants, etc.)
MICHIGAN CITY—Crum, Walter A.
Statworthy Thomas.
MONTPELIER—Mahoney & Son
Shull, James
MOUNT VERNON—Briukman, Oscar
MUNCIE—Electrical Supply & Construction Co.
Jones & Zuber
NAPPANEE—Hartman Brothers
NEW ALBANY—Thompson, O. C.
NEW CASTLE—Carr, E. M. (and Mfr. of Specialties)
OSGOOD—King Elec. & Machine Works
PERU—Deihl & Stevens
Ross, O. D.
West, G. E.
RICHMOND—Godsley & Richardson Co.
McCullough, George
Meerhoff, H. H.
ROCKPORT—Calvert, F. R.
Payne & McMillin
RUSHVILLE—Moffett & Co.
SIEBELBURN—Vigo Electric Co.
SOUTH BEND—Central Electric Co.
*South Bend Electric Service Co.
*Standard Electric Co.
SPENCER—Batterton, Frank
Laymon, James C.
TERRE HAUTE—Cegar, S. C. & Co.
Freitag, Weinhardt & Co., 646 Wabash av.
Hayes & Williams, 925 Main
Jenkins, Rollin H., 113 N. 6th
Kester Electric Co., 1000 S. 14th
Miller Electric Co., 634 Wabash av.
Watson, D. W. Sons Co., 634 Wabash av.
TIPTON—Compton & Son
Recobs, Fred.
UNION CITY—Fisher, Geo.
Lenich, J. P.
WARSAW—Crist, M., 117 E Market

INDIAN TERRITORY.

ADA—Ada Electric Co.
ARDMORE—Indian Territory Electric Co.
CHICKASHA—Perry, P.
Ross Electric Co.
MUSKOGEE—Muskogee Electric Co.

IOWA.

(See also Electrical Supplies)

BELLE PLAIN—Mall, W. A.
BLOOMFIELD—Trickeley, E.
BURLINGTON—Heinlen, E. G., 415 Peaseley av
Home Electric Co., 622 N. 4th
Modern Electric Co.
Weinstein, E., 615 Elm
CARROLL—Hutchinson, H.
CEDAR RAPIDS—Cedar Rapids Electrical Supply Co.
Day, Frederick
*Fawcett, C. E.
Marin, C. A.
CHARLES CITY—Hering & Co.
CLINTON—Baldwin Bros.
COUNCIL BLUFFS—Morrison Electric Works
Wolfe-Lovett Electric Co.
CRESCO—Freehauf, Chas. F.
DAVENPORT—Black Hawk Electric Co.
*Tri-City Electric Co.
DES MOINES—Collins, John, Observatory Bldg.
*Frantzen, Arthur Co., Citizens' Nat'l Bank
*Hawkeye Electric Co., 412 Locust Bldg.
Iowa Electrical & Machinery Co.
*Midland Electric Co., 809 Locust
Straight Electric Co., 910 Walnut
Turner, J. W. Improvement Co., Youngerman bldg
DUBUQUE—Osborn, G. H.
Smith, E. P., Electric Contract Co.
ESTERVILLE—Bennis Bros.
Gaylord & Ross
FORT DODGE—Alline, J. K.
Gray, L. V.
GRINNEL—Oswald, J. F.
Rinckford Bros.
IOWA FALLS—Dows, C. A.
LYONS—Magnussen, C.
MARSHALLTOWN—Hall, T. L.
*Marshalltown Electric & Construction Co.
Wilson, E. I. & Co.
MORNING SUN—Selzer Hardware Co.
MUSCATINE—Adams-McCoy Electric Co.
NEW HAMPTON—Tompors, T. O.
OTTUMWA—Acme Electrical Supply Co.
SHELDON—Logan, O. E.
SIOUX CITY—*Corn Palace Elec. Construction Co.
McGraw Electric Co.
Sterling W. S.
VINTON—Speers, G. W.
WASHINGTON—Depins, Thomas & Son
WATERLOO—Straight Electric Co. (G. T. Gibson, Prop.)
Waterloo Electrical Supply Co. (F. H. McWaukon—Burtiss, Howard Cartney, Prop.)
WEBSTER CITY—Bonebright, F. A.
WINTERSET—Lumner, W. C.

KANSAS.

ABILENE—Union Electric Co.
ARKANSAS CITY—Paschal, W. V.
Rowan, Wm. Supply Co.
COFFEYVILLE—Stevens, Alex.
GLASCO—Davidson & Co.
CHANUTE—Mallory Plumbing Co.
KANSAS CITY—Chadburn & Bledsoe, 709 N. 6th
Chadborn, G. L., 339 Minnesota av.
LAWRENCE—Savage, Geo.
Tholan Bros.
LEAVENWORTH—Ray Electric Co.
LOGAN—Kiug, E. J. & Co.
MANHATTAN—Rail, R. D.
OBERLIN—Fawcett, Chas.
PARSONS—Queen City Electrical Supply Co. - Workman Bros.
TOPEKA—Eagle-Mercer Electric Co.
Independent Electric Construction Co.
Jordan, E. P., 118 W. 8th
VALLEY FALLS—Troth Electric Co.
WELLINGTON—Fetters & Son
Kemp, Roy
Reberto, H.
WICHITA—Electrical Supply & Construction Co.
Incandescent Light & Supply Co.
Stimson, C. W.

KENTUCKY.

ASHLAND—Interstate Electric Co.
CARLISLE—Rice & Tune
CARROLLTON—Wood & Son
COLUMBIA—Myers & Son
COVINGTON—Wadsworth Bros.
DANVILLE—Nelson, E. B.
HENDERSON—Alves, Clinton
Berry, Earl
Biggs, C. W.
Ford, Paul

Hartman Electric Co.
King, H.
Mills Bros.
Milton, John
HOPKINSVILLE—Hopkinsville Ideal Construc-
tion Co.
LEXINGTON—Hornsey, T. A.
Schnelder, August
LOUISVILLE—Anderson Electric Co., 524 3d
Black, H. M., 516 3d
Bridges, John Construction Co., 1310 Preston
Cochran, J. H., 303 W. Main
Daubert & Schrecker, 1006 3d
Fay, J. T., 510 2d
J. & M. Electric Co., 1111 W. Main
*McWilliams, Jos. & Co., 719 W. Market
Martin, E. T., 432 W. Walnut
Porter Bros., 618 3d
Shoemaker, W. M. & Co., 224 3d
Vogt, Henry Machine Co. (Inc.), 10th & Ormsby av.
NEWPORT—Hubbard, O. M.
Kiefer, Geo. W.
Phister, F. C.
Wuest, Carl
OWENSBORO—Berry, D. E. & Co.
Pfeiffer, J. C.
PEMBROKE—Cross, K. P.

LOUISIANA.

BATON ROUGE—Joubert, W. C.
DONALDSONVILLE—Leamann Co., Ltd.
LAFAYETTE—Lafayette City W. W. & E. Lt.
MONROE—Dabney, F. B. Plant
NEW ORLEANS—Bielefeldt & Burke Electrical
Works, 300 Chartres
Bonds, O. S., 715 Union st.
Caire, J. T., Co., 335 Carondelet
Commercial Electric Co. 710 Union
Douglass, James A., Jr., 608 Hibernia Bldg.
Harvey, Stanley A., 610 Commercial at
Interstate Electric Co. (Ltd.), 352 Baronne
Joachim, Jacob, 309 Dryades
Marks El. Construction Co., 532 Iberville
Parker Elec. Co., 415 Carondelet
Souait, H. M., 1003 Geavier
Southern El. Co., 203 Carondelet
Spangenberg Bros., 126 Exchange Pl.
*Standard Electric Co., 424 Camp
Stechman & Meins, 306 Dauphine
Sterns & Mark, 330 Carondelet
Stewart, S. B. & S. J., 216 Bourbon
Union Elec. Wks., 318 Hennen Bldg.
Wagner Electrical Mfg. Co., 204 Carondelet
Ziegler & Marx Co. (Ltd.), 227 Bourbon
SHREVEPORT—Buell Elec. Co.
Sanders, A. B.
THIBODAUX—Staunton, A. R.

MAINE.

AUBURN—Davis, Henry J.
Hall & Knight Co.
Ray, W. A.
Rowell, H. G.
AUGUSTA—Cogan, J. H. & Co.
Ward A. D. (Bells, etc.)
BANGOR—Baugor Electrical Construction &
Supply Co.
Dole, Ch. E.
BELFAST—Bray, W. H.
Dickey, C. G.
BIDDEFORD—Anthoine, G. A.
BRUNSWICK—Hamlin, F. H.
CARIBOU—Fisler, A. B.
ELLSWORTH—Morrison & Joy.
Shatton & Westcott
FAIRFIELD—Donnelly, Jno. R. & Co.
FARMINGTON—Cook, W. H.
LEWISTON—Soper, S. E.
OLD ORCHARD—Duff, J. W. Co.
OLDTOWN—Rackliff, C. E.
PORTLAND—Chapman W. H., 58 Fore
*Cleveland, L. W. Co., 414 Congress
McKenney, W. W., 15 Deering av
Maine Elec. Co., 25 Commercial
Marston, C. L. & Co., 84 Exchange
York & Boothby Co., 222 Middle
SANFORD—Bodwell Bros.
Moulton, Leroy
Sanford Elec. Co.
WATERVILLE—Brown, F. S. (Bells, etc.)
YORK HARBOR—Thompson, Geo.

MARYLAND.

(See also Electrical Supplies)

ANNAPOLIS—Dexter, J. Boyd
BALTIMORE—Baltimore Construction Co., 508
W. Mulberry
*Byrne, Thomas W. Co., 333 St. Paul
Courtney, A. C. Electric Co., 323 St. Paul
Crook, Howard E. & Co., Church la c Dark
Crook, Horner & Co., 303 N. Howard
Davidson, C. Y. Co., 328 N Charles
*Dobler, John S., 204 N Calvert
Electrical Material Co., 322 N Calvert
*Elme, J. Frank & Co., 110 E Balto
Frantzen, Arthur Co., Law bldg

Gibson & Kirk, 517 E Montgomery
Gould, J. L., 1521 N. Fulton
Gourd, L. Le, 508 W. Mulberry
Gray, S. F. & Co., 221 Park av.
Grebb, W. A., 812 N. Gay
Grove, O. C., 1231 Penn av.
Hernstein, L. A. & Co., 328 N. Eutaw
Hinkle, Harry C., 896 W. Baltimore
*Holmes Elec. Co. (Engineers & Contractors),
609 E. Baltimore
Hopkins, R. M., 908 N. Monroe
How, John K. Co., 306 St. Paul
Howard, R., 214 S. Bond
Howell, J. B., 2902 Huntingdon av.
Huey, J. Wistar, Continental Trust Bldg.
Keller, Pike & Co., 202 N Calvert
King, L. D., 1808 E. North av.
*Kingsbury-Samuel Elec. Co., 411 Courtland
Lehmann, A. A., 1105 Nanticoke
Linthicum, Wm., 417 N. Bond
*Lucas, Jas. C. M., Co., Continental Trust
bldg
*McCay Engineering Co., 9 E Lexington
MacRae, Hector C., 316 St. Paul
Nellis & Co., 623 W. Mulberry
*Newhall & Co. (Inc.), American bldg
Newman, C. P., 2026 Wallbrook av.
Prather & Co., 346 N Calvert
Sprague Electric Co., American bldg
Susquehanna Construction Co., 222 N. Charles
Triumph Elec. Co., 411 Courtland
Union Elec. Co., 603 N Calvert
Watson-Flagg Engineering Co., 2 E Saratoga
Westinghouse Electric & Mfg. Co., Con-
tinental Trust bldg
Winters, Chas. & Co., 1911 Federal
*Zamoiski, Jos. M., 409 W. Lexington
CHESTERTOWN—Sutton, W. T. & Son
EASTON—Flowers, Willis.
Shannahan & Wrightson
FREDERICK—Hales, W. D.
HAGERSTOWN—Hagerstown Elec. Co.
Kent Miller, P. W.
Morgan, H. B.
Raymond Ripple Co.
Schaff Elec. Co.
HAVRE DE GRACE—Touchton, S. Lyell
OAKLAND—Lawton, Samuel
Oakland Elec. Co.
RIVERDALE—Stalley, H.
WILLIAMSPORT—Ardinger, Walter

MASSACHUSETTS.

ABINGTON—Peirce, Geo. W.
AMESBURY—Bagley, Clarence J.
Corbin, James T.
Dickens, James
ANDOVER—Chase, H. F.
Buxton & Coleman
ARLINGTON—Le Baron, Reuben W.
ATHOL—Athol Electrical Co.
ATTLEBORO—Macomber, A. R.
AYER—Novelty Wiring Co.
BEVERLY—Greenlaw Elec. Co.
North Shore El. Engineering Co.
Sampson & Allen
Webb, Frank A.
Woodbury Electric Co.
BOSTON—Abbott Electric Co., 100 High
*Angier, Geo. M. Co. (Mill Work), 185
Franklin
*Barnes Electric Co., Sudbury bldg
Baron & Horwitz, 117 Haverhill
*Boston Electric Co. (Engineers & Con-
tractors), 29 Harrison av Ext
Boston Industrial Co., John Hancock bldg.
Bubert, J. F., 120 Boylston
*Byrne, T. W., 8 Doane
Charm Electric Co., 115 Leverett
*Chase, Walter H., 17 Bromfield
Chipman, W. E. & Co., 62 Sudbury
Coffin, W. A., 627 Washington, Dor.
Columbia El. Engineering Co., 57 Warren
Coulson & McDonnell Elec. Co., 46 Cornhill
Cram, Wm. E., 3 Lagrange
Dean, S. & Co., 8 Providence
Deane & Lobdell, 113 Devonshire
Edmands, W. S., 186 Devonshire
Edwardes & Merrill, 108 Broad
Electric Maintenance Co., 149 Pearl
Electric Storage Supply Co. (Yacht Lighting
etc.), 297 South
*Erickson Elec. Equipment Co., 280 Devon-
shire
Erikson Elec. Co., 82 Sudbury
Ferrin, F. M., 45 Arch
*Fuller, Seth W. Co., 185 Devonshire
*General Electric Co., 84 State
Godfrey Elec. Co., 24 Chauncey
Gould Bros, 183 Freeport, Dor.
Hazleton, H. H., 103 Court
*Holder, H. A., 122 Dudley
Hunter & Brander, East Boston
Hussey & McGuire, 128 Broad
*Jamaica Plain Elec. Co., 193 Green, J. P.
*Jarvis Engineering Co., 61 Oliver
Jones, C. L., 368 Camb., Alls.

*Keaton, Augustine, 2387 Washington
Kelly, T. T. & Co., 2 Columbia
*Kendall, M. K. & Co. (Elec. Rys.), 32
Oliver
Keniston Engineering Co., 52 Washington
Keough Gros. & Co., 79 North
Lewis, Edwin C., 121 Federal
*Lord Elec. Co., 112 Water
McCarthy, T. E. & Co. 34 Cornhill
*Matson, I. L., 147 Summer
Nelly, M. R., 64 Shawmut av
Palmer, J. Frank, 244 Washington
Palmer El. Co., 103 Bedford
Picard, A. L. Co., 308 Atlantic av
Porter, S. S., 185 Franklin
Potter, Herbert S., 24 Commerce
Pray, Thos., Jr., 131 State
Price, James A., 8 Poplar, Ros.
Redding, Jerome & Co., 40 Hanover
Redding, J. Herbert, 31 Exchange
Richmond, Will F., 12 Hawley pl
*Ross, Olof & Co., 9 Cornhill
Rowe, Walter W., 30 Cornhill
*Sargent, Conant & Co., Equitable bldg
Scott, W. W., 200 Summer
*Snow, Franklin A., 166 Devonshire
Spokesfield, F. B., 1887 Dorchester av
Sprague, Marsh Electric Co., 45 Cornhill
Stevens, G. F. W., 60 Norfolk, Dor.
Stiles, C. W., 1152 Wash, L. M.
Stone & Webster, 84 State
*Swan, F. A. & Co., 37 Pearl
Thaxter, F. O., 722 Dudley
Wetherbee & Whitney, 155 Congress
Wilkinson, Jas. & Co., 51 Franklin
BROCKTON—Carpenter, D. K.
Tebbitts, E. A.
Tremaine, E. T., 24 E Elm
BROOKLINE—Brooks, Frank B., 240 Wash'n
*Fleming, Jno. F., 222 Wash'n
Steverman, B. J., 264 Wash'n
CAMBRIDGE—Brock & Eaton, 1362 Mass. av
*Bryant, F. & Co., 728 Mass. av
Coulson-McDonnell Electric Co.
Farrow, H. F., 32 Prospect
Pearson, E. W., 1858 Mass av
Sayre, Frank, 1229 Cambridge
Stevens, J. H. & Co.
CHELSEA—Johnson, Chas. H.
Pettman, O. E. & Co.
Pickford, Henry
Spence, Jno. W.
CLINTON—Evans, F. B.
CONCORD—Keyes, J. M.
Watson, J. P.
DANVERS—Woodward, D. E.
DEDHAM—Gibb, G. D.
EAST BRAINTREE—Hobart, A. L.
EVERETT—Ayers, Henry W., Jr.
Connell, J. J. & Co.
Kittredge, F. A.
FALL RIVER—Crawford, John W. Co., 120 S
Main
*Edgar, Wm. B., 46 Rock
Hart, Orlando W., 151 Rock
Potter & Earle 158 N Main
Weeden, H. S., 321 Belmont
FITCHBURG—Beane, W. J.
*Bruce-Hibbard Electric Co.
Coolidge, M. A.
Demmon & Ramsay
FOXBORO—Carpenter, F. C.
FRAMINGHAM—Gibbs, C. N.
Meserve, F. W.
Parlin, W. D.
GARDNER—Loughlin, P. H.
GLOUCESTER—Cameron, Jno. A. & Co.
Favor, Sidney S.
Low-Newmarch & Co.
GRAFTON—Grafton Electric Co.
GREAT BARRINGTON—Parrish Bros.
Whitwell, A. E.
GREENFIELD—Kimball, Edw. P.
HAVERHILL—Fox, D. G.
Heath, A. P.
Kimball, H. W.
HOLYOKE—Haskell, H. Frank
Oakes, Roland T. Co.
HUDSON—Dawes, F. B.
Gould, W. C.
HYDE PARK—Brown, B. J.
Stocker, A. F. & Co.
LAWRENCE—Lawrence Electrical Supply &
Construction Co., 280 Common
Mosher, E. O.
Pedler, Geo. E.
LENOX—Rogers & Co.
LEOMINSTER—Haskell, James A.
Wilcox, A. R., El. Co.
LOWELL—*Derby & Morse, 72 Middle
Harding, Harry F., 32 E Pine
*May, C. H. & Co., 139 Middle
*Tucke & Parker, 79 Middle
Young, Samuel
LYNN—Bancroft, K. H.
Campbell Bros., Keith bldg
Gilson, Hatch & Wood, 146 Munroe
Johnson, Frank H.

Orcutt, John N. (Bells, etc.), 49 Monroe
 Phillips, Chas. C., 74 Exchange
 *Sampson & Allen, 51 Exchange
 Sisson, Alb. H.
MALDEN—Bliss, C. E.
MANCHESTER—Clark & Mills El. Co.
MANSFIELD—Payne, Howard
MARBLEHEAD—Brackett, Ray
MARLBORO—Hicks, R.
MEDFORD—Ober, Wm. E.
MELROSE—Page, Herbert S.
 Page, Herbert S.
MILFORD—Tewksbury & Weir.
 Whittmore, Geo. H.
NATICK—Durkee, M. A.
 Fairbanks & Son
 Gilmartiu, T.
 Knowles, A. P.
NEW BEDFORD—Baron, J. & Son
 Briggs, W. P.
 Flitch, H. A.
 Lord, Peter
 Sherman, C. R. & Sons
NEWBURYPORT—Dickens, Jas.
NEWTON—Baxter, A. C., 127 Boyd
 Colgau, Wm. H., 1385 Wahn'n, W. N.
 Johannot, H. E., 390 Centre
 Kendrick, Arthur
 Pike, Wm. E., 403 Centre
 Trefry, Jas. T., Cherry, W. N.
 Ulmer, Gustavus, 32 Bowen, N. C.
NEWTON CENTRE—Almer, G. W.
NEWTONVILLE—Bjorson, Theo. O.
NORTH ADAMS—Berkshire El. Co.
 Spruill, J. B.
NORTH ATTLEBORO—Burden, P. E.
 Hall, W. M.
 Warren, A. E.
PALMER—Central Massachusetts El. Co.
PEABODY—Poeton, Saml B.
PITTSFIELD—Berkshire Electric Co.
 Cullen & Co.
 *Eureka Electric Co.
PLYMOUTH—Doteu, Chas. M.
 Peirce, T. H. G.
 Watters, John F.
QUINCY—Beckford, Edwin S.
 Quincy Electric Light & Power Co.
RANDOLPH—Hayden, F. W. & Co.
 Rast, G. A.
READVILLE—Readville El. Co.
ROXBURY—Columbia El. Eugiu. Co.
 Jordan, O. H.
SALEM—Balch, Frank
 Hamond, G. H.
 Lee, Wm.
 Philbrick Electrical Co.
 Ramsdell Elec. Construction Co.
SOMERVILLE—Cleveland, W. T., 331 Summer
 Cutter, C. H. (W. S.)
 Pusifer, F. L., 25 Summer
 Weld, C. L., 15 Glen
SOUTH BRAINTREE—Heath, H. W.
SOUTHBRIIDGE—Gay, E. L.
SOUTH FRAMINGHAM—Foley Bros.
 Gibbs, C. N.
 Meserve, F. W.
 Parlin, W. D.
SPRINGFIELD—*Bowman & Gregg, 19 Elm
 Carter Electric Co., 229 Main
 Craig & Craig, 69 Lyman
 Fitzpatrick, P. C., 137 Bridge
 Hawes & Gray, 37 Dwight
 Ley, Fred. T. & Co.
 Morin, Thos H., 23 Taylor
 Parker, Chas. W., 23 Reese pl
 Springfield Electric Co., 129 Worthington
STOUGHTON—French, E. M.
TAUNTON—Lamb & Foster, 18 City sq
 Stocker, A. F. & Co., 18 B'way
UXBRIDGE—Day, J. W., El. Co.
 Farnum, H. S.
 Lofstedt, M. A.
WALPOLE—Hartshorn, F. A., Jr.
WALTHAM—Dauderman, Horne
 Dolan, John
 Hill, Fred J. G.
WEBSTER—Bergman, C. W.
 Kitton, I. H.
WATERTOWN—Harris & Hornér
WESTFIELD—Bowman & Gregg
 Johnson, Fred J.
WEST LYNN—Littlefield, H. A., & Co.
WEST MEDFORD—Ober Wm. E.
WHITMAN—Allen, Roy F.
 Howard, E. C.
 Packard Bros.
WINCHESTER—Bailey, C. M.
WORCESTER—Brigham, Geo. E., 518 Main
 *Browne, W. L., 545 Main
 Delta El. Co. 22 Front
 Kendall, W. D. Co., 166 Main
 Latour, P. V., 11 Bartlett
 *Page Electric Co., 23 Pearl
 Plummer, Ham & Richardson, 619 Main
 Temple, Henry D., 217 Commercial
 Worcester Electric Contracting Co., 268 Main

MICHIGAN.

(See also Electrical Supplies)

ANN ARBOR—Eberlach & Co.
 Kittredge, C. H.
 Schuh, Jacob
BATTLE CREEK—*Peterson, J. G., 37 Wash'n
 av. N. W.
BAY CITY—*Electrical Construction Co.
 King, Andrew
 Munsey El. Co.
 Thorne El. Co.
 Woods Electric Co. (F. Newton Woods)
BLISSFIELD—Keeler, Jas. R.
CALUMET—*Keelyn & Smith
 Superior Construction Co.
CHEBOYGAN—Cheboygan Electric Light &
 Power Co.
COLDWATER—Allen, Fred L.
 Miller & Joslier
 Rogers & Hickey
CRYSTAL FALLS—Lucas, E.
DETROIT—American Electric Co., 48 Wood-
 ward
 Britten & Haynes El. Co., 17 John R.
 Clark El. Engineering Co., Cass & State.
 Comstock-Haigh-Walker Co.
 Crook Electric Co., 68 State
 Donahue & Shobottom Elec. Co., 82 Gris-
 wold
 East Side Electric Co., 268 E Elizabeth
 Edison El. Illum. Constr. Co., Washington
 av & State
 Electrical Construction Co., 25 Rowland
 Electrical Supply & Engineering Co., 75
 Fidelity Constr. Co. Bates
 Fisher Electrical Works, 183 Larued, W
 Gray Bros. Electric Co., 160 Cass
 Haight, Chas. E., 416 Michigan av
 Heath Electric Co., 336 Grand River av
 Hutchins, Albert E., 1183 12th
 Kearney Electric Co., 30 Miami av
 Marks, Hiram Elec. Co., 155 Jeff av
 McCleary Electric Co., 217 Jefferson
 Miller-Seldon Electric Co., 208 Griswold
 Rumsey Electric Co., 19 Bagley av
 *Seidler-Miner Elec. Co., 207 Jefferson av
 Schneider El. Co. 1181 Jefferson
 Standard Electric Co., 194 Randolph
 Walker, Henry L. Co., 40 E Larned
 Templeon, John D. Co., 117 Wayne
 Wayne El. Co., 91 Bagley
 Wolverine Elec. Co. (A. F. Paschke, Prop.),
 149 Grand River av
ESCANABA—Bartlett, J. W. & Sons
 Sterling El. Co.
 Stonhouse, W. H. & Co.
FLINT—Henderson, Thos.
 Hubbard & Henderson
 Sterner, Edwin Co.
 Riggs, A. A.
FOWLER—Sturgis, Wm. C.
GRAND RAPIDS—Central El. Co.
 Electric Construction Co., 11 Canal
 *Grand Rapids Electric Co., 9 S Division
 Lamb El. Co., 29 Canal
 Mosher, J. T. El. Co.
 *Weatherly Co., 97 Pearl
HOLLAND—Standart, E. B.
HOUGHTON—Barrett El. Co.
 Dee, Jas. B.
JACKSON—Cowham Engineering Co.
 Jackson Electric Construction Co.
 Lockwood Bros.
 Parrish Bros.
 *Reeves, C. S.
 Seward, C. J.
KALAMAZOO—Columbian Electric Co.
LANSING—*Capitol Electric Eng. Co.
 Rice, S. A. & Co.
LUDINGTON—Williams, Jos.
MANISTEE—Brugman Bros.
 Field, F. W.
 Larsen, F. C. & Co.
MARQUETTE—Hoard, F. H. & Co.
MARSHALL—Holmes, E. L.
MENOMINEE—McCarthy, W. J.
 *Menominee Electric Mfg. Co.
MIDDLEVILLE—Heath, F. E.
MUSKEGON—Edison Electric Co.
 *Muskegon Electric Co.
 Nims, F. D.
 Taylor Heating & Plumbing Co.
NASHVILLE—Furniss, J. C.
NILES—Hatch & Hamilton
OWASSO—Kelly & Douglass
PAW PAW—Smith, Dana P.
PETOSKEY—McAdams, F. M. El. Co.
PONTIAC—Kelly El. Co.
PORT HURON—Huron Cycle & Electric Co.
 Liscom Bros.
 *O'Neil Bros. & Co.
 Stephenson, D. J.
REED CITY—*Andrews, Jas. H.
ROMEO—McDowell, W. C.
ROSCOMMON—Johnston, W. F.

SAGINAW—Berger, F. A.
 Herman El. Constr. Co.
 Saginaw El. Co.
 Saginaw El. Constr. Co.
ST. CLAIR—Leach, Wm.
 Whiting, John P.
ST. IGNACE—Furling & Hoban
ST. JOSEPH—Eugsberg's Elec. & Mech'l Works
 *Jewell, Reuben
 Sterling, E.
SAULT STE MARIE—Chippewa El. Co.
 Ross-Barrett El. Co.
TECUMSEH—Satterthwaite Bros.
TRAVERSE CITY—*Campbell Bros.
 Paige, J. B. El. Co.
WEST BRANCH—Vaughan Electric & Construc-
 tion Co.

MINNESOTA.

(See also Electrical Supplies)

ADRIAN—Sands, C. A.
AUSTIN—Sutton & Decker
CLOQUET—Cloquet Elec. Co.
 Fish, L. A. & Co.
 Loisel & Rogers
DULUTH—Burgess Electric Co., 312 W 1st
 Chisholm, A.
 Crowley Electric Co., 301 W Michigan
 Duluth Electrical & Construction Co., 210
 W 1st
 Electr. Engineering Co., 200 Tarrey bldg
 McLaughlin, J. H. & Co.
 Mutual Electric Co., 119 W 1st
 Richardson Electric Co., 18 W 3d av
ELY—Ely El. Co.
HUTCHINSON—Hughes, J. F.
LAKE CITY—Keith, Roy
LITCHFIELD—Hankey, F. R.
 Miller, W. H.
MINNEAPOLIS—Bell Electric Co., 2532 Nicollet
 *Bell, Vernon & Sons, 56 S 3d av
 Bijou Electric Co., 22 N Washington av
 Brownig Co., 309 S 3d
 Carpenter, W. F., 1027½ Sixth av, N
 *Electrical Engineering Co. (Light &
 Power), 21 E 6th
 *Electric Machinery Co. (Power & Lighting),
 Polk, bet 13th & 14th
 Electric Specialty Co., 2903 Garfield av
 *Gray, W. I. & Co. (Electric Lighting,
 etc.), 704 S 5th
 *Hartig & Hellier, 404 S 1st av
 Hough, H. L. Co., The Phoenix
 Minneapolis Electric & Construction Co., 17
 S 4th
 Minneapolis El. Motor Co., 329 Hennepin
 *Minnesota Electric Co., 311 S 2d av
 O'Neill, M. J., 814 Nicollet av
 *Trevor, John, 406 S 1st av
MOORHEAD—Kiefer, P. J.
 McMillan & Winegarden
MORA—Mcithargey, S. D.
OWATONNA—Soper, J. A.
RED WING—Foster Bros.
ROCHESTER—Hoyer, P. T.
ROLLING STONE—Schuh Bros. (Supplies)
ST. PAUL—*Berggren Electric Co., 4th &
 Wabasha
 Electric Construction Co., 35 E 5th
 Gorman Electric Co., 315 Minn
 Grant, P. S., Ryan bldg
 McBride Electric Co., 346 Malu
 Maxwell, Eugene, Endicott bldg
 *Morton, Geo. R., Nat. Ger. Am. Bank bldg
 *Nimis & Nimis, 21 E 5th
 Northwestern Electrical Equipment Co., 131
 E 5th
 Richardson, G. I., 215 Concord (Wiring)
 *Robertson, J. G. (Power Plants), Gilfillan
 Savage, A. H. German Life bldg blk
STILLWATER—Riordan, C. N.
THIEF RIVER FALLS—Peterson, R. E.

MISSISSIPPI.

BILOXI—Bradford & Co.
 Nauck, E. J.
CLARKSDALE—Harris, W. H.
 Hooks, J. H.
HOLLY SPRINGS—Bryant, H. W.
JACKSON—Strauss & Son
MAGNOLIA—Kramer, Xavier A.
MERIDIAN—Miss. Electrical Supply Co.
 Dalton, W. J. El. Co.
 Meridian Plumbing Co.
 Williams, Fred
NATCHEZ—Hart, M.
 Uhlman, E. G.
VICKSBURG—Folty Bros.
 Mattingley & Deason
 Stinson, T. S.
YAZOO CITY—Delta El. Co.

MISSOURI.

(See also Electrical Supplies)

ALBANY—Cox, Jasper
Kerlin, John
BETHANY—Stevens, Z. T.
CARTHAGE—Empire El. Pwr. & Supply Co.
Holt, Robt.
Rush, W. S. & Co.
COLUMBIA—Barnwell, J. O.
Thomas, E. F.
HANNIBAL—McPherson, Alb. E.
Rigler, T. A.
INDEPENDENCE—Scheley & Hendrickson
JOPLIN—Barney, Chas. H.
Belden, Chas. H.
Joplin El. Supply & Constr. Co.
KAILOKA—Kahoka Telephone & Constr'n Co.
JOPLIN—Barney, Chas. H.
KANSAS CITY—B-R. Electric & Telephone
Mfg. Co., 500 Delaware
Cowie, E. S. El. Co., 1413 Grand av
Davies Bros., Jenkins bldg
Economy El. Co., 933 B'way
Frels El. Co., 614 Wyandotte
*Hodge-Walsh Electrical Engineering Co.,
701 Delaware
Kansas City Elec. Construction Co., 930
Wyandotte
Matthews-Scott Elec. Co., Bryant bldg
Molineau & Co., 567 Walnut
Morgan Machine & Engineering Co.
Osborn, W. T. & Co., 705 Delaware
Pierce, L. R., 128 Brooklyn
*Reed, E. M. & Co., 717 Delaware av
Squire Electric Co., 113 E. 8th
KIRKSVILLE—Rinehart, E. S. & Co.
MEMPHIS—Carothers, R. E.
Clement, W. C.
Morris, Ben.
MILAN—Havermale & Bennett
NEVADA—Shafer & Gordon
PALMYRA—Grimes Bros.
POPLAR BLUFF—Beimel-Ashcroft
Palmer, L. M.
ST. CHARLES—William, J. C.
ST. JOSEPH—Berry Electric & Mfg. Co., 111
S. 3d
*Columbian Electrical Co., 819 Francis
Electric Construction Co., 429 Francis
McCarthy Bros. Co., 816 Olive
ST. LOUIS—A. B. Electric Co., 1111 Pine
*Abadie, E. H., & Co., Bank of Commerce
Adam, Frank Elec. Co., 904 Pine bldg
Andreas, C. & Son, 416 N 3d
Banner Electric Co., 310 Market
Briner, C. J. & F. E., 204 Franklin av
Century Electric Co., 404 N 4th
Chapman, Penrose E., 17 N. 10th
Cooke, Edw. T. Electrical Co., 1408 Chest-
nut
*Eclipse Electrical Co., 1124 Pine
Electrical Constr. Co. of St. Louis
Electrical Heating & Mfg. Co., 1903 Locust
Engelhardt, Henry A., 607 N Vandeventer av
Fort Wayne Electric Works, Lincoln Trust
Ghiselin, W. F. & Co., Pozzoni bldg bldg
Guarantee El. Co., 15th & Pine
Haas, Emil, 200 Pozzoni bldg
Humphrey, Henry H., Chemical bldg
Kettler, B. J. Electric Construction Co., 17
N 9th
Kramer, Otto H. E. & Co., 620 N Taylor av
Lucas, Joseph H., 740 Bayard av
Melbeck, Edw., 712 N 8th
Mercantile Electric Co., 810 Spruce
*Moloney Electric Co., 7th & Hickory
*Newberry, F. E. & Co., Olive & 9th
Pan-El. Service & Appl. Co., 117 Market
Percival & Jones, Burlington bldg
Pine, Dudley J. Electric Co., Walnut & 10th
Potter, C. E. Electric Signal Co., 721 Olive
Reibell & Brauer, 708 N 11th
Rougell Electric Co., 816 Olive
St. Louis Electric & Machine Co., 218 N 3d
*St. Louis Electrical Contractors Ass'n, 1408
Chestnut
St. Louis Wiring & Fxt. Co., 3855 Olive
Snider Electrical Co., 1626 S B'way
Southwestern El. Co., 24 S. 10th
Success Electric Co., 3745 Easton av
*Sutter, Chas. J., 1228 Olive
*Van Nort Bros. Electric Co., 1005 Market
*Van Nort, E. C. Electric Co., Locust & 11th
Willard, Herman, 420 N Vandeventer av
*Wurdack, Wm., 19 S 11th
SPRINGFIELD—Atkinson, J. E.
Sappington, J. H.
Springfield Electrical Supply Co., 317 St.
Louis

MONTANA.

BILLINGS—Golish, Frank
Hawthorne & Huston
BUTTE—Mayer El. Co.
*Montana Electric Co.
Silver Bow El. Co.
MISSOULA—Missoula El. Constr. Co.
Rowland, R. G.

NEBRASKA.

ALBION—Bennett, I. I.
COUNCIL BLUFFS—Morrison El. Works
CRETE—Small, A. E. & Co.
HASTINGS—Hayter, E. A.
LINCOLN—Brooks, Morgan (Prof. Elec. Eng.
University of Neb.)
Cook Electrical Supply Co.
Electrical Equipment Co.
Korsmeyer Plumbing & Heating Co.
Nebraska El. Co.
O'Reilly, Matthew
NEBRASKA CITY—Duff & Gregg
OMAHA—Central El. Co., 115 S. 16th
Kuhns, John H.
Nebraska Electric Co., 321 S. 13th
*Omaha Electrical Works, 108 N. 11th
*Western Electrical Cons. Co., 1212 Farnam
*Wolfe-Lovett Electrical Co., 1804 Farnam
PLATTSMOUTH—Wescott, E. C.
WAYNE—Peterson & Berry

NEVADA.

DAYTON—Truckee Riv. Centr. El. Co.
RENO—Ersine & Co.
Gray, Blaine
Reno El. Works
VIRGINIA CITY—Bradley, J. R. Co.

NEW HAMPSHIRE.

CONCORD—Bennett, H. P.
Cushman Electric Co.
Dudman, Chas. W.
Orr & Downs
DOVER—Herbert, E. A. F.
FRANKLIN—Burleigh, H. W.
HINSDALE—Stratton, E. E.
KEENE—Willard, L. M.
LACONIA—Sanborn, W. D.
LITTLETON—French, G. W. & Co.
MANCHESTER—*Brodie Electric Co., 886 Elm
Bryant, E. M. & Co., 28 Hanover
Franks, A. L. & Co., 1196 Elm
Lane, Thos. A. Co., 66 Hanover
Farrell Bros., 1196 Elm
MILFORD—Barber, H. H.
NASHUA—Austin, Chas. H.
Dillon, J. F., 351 Main
PORTSMOUTH—Trafton, W. I. & Son
SUNAPEE—Stocker, A. F. & Co.
TILTON—Allen, M. C.
WHITEHEAD—Colby, C. J.
Libby, M. F.
WILTON—Emerson, Wm. H.

NEW JERSEY.

(See also Electrical Supplies)

ALLENHURST—Conover, Frank B.
Eskew, O. E. & Co.
ASBURY PARK—Hope Electric Co.
Proctor-Jones Electric Co.
Van Dyke El. Co.
ATLANTIC CITY—Albertson & Young, 2023 At-
lantic av
*Chapman, F. A.
Freeman, Alexander
Ingalls, C. E.
Valentin & Johnson
ATLANTIC HIGHLANDS—Briggs, Ch. F.
White, C. E.
Yetman, A. A.
BELMAR—Alspach, Harry
BLOOMFIELD—New Jersey El. Constr. Co. of
Bloomfield
Olsen, A. F.
BURLINGTON—Briggs, Samuel L.
CAMDEN—Bell Engineering Co., 95 Federal
Cremens, E. F. Electric Co., 412 Kaighn av
De Harendt, W. F., 331 Arch
Grant, Clarence R., 724 Elm
Middleton, J. G., 423 Market
*Morgan, Harry E. Co., 123 Market
Nottebrock, Mortimer L., 706 N. 6th
Pullen, Leon W., 412 S. 3d
*Richter & Eschler, 21 Federal
CAPE MAY—Dutton, C. C.
Leaming, M. D.
CRANFORD—Doyle, B. A.
DOVER—Ward, R. P.
DUNELLEN—Richardson, Geo. W.
EAST ORANGE—Bischoff, W. P., 72 Greenwood
av
Mutterer, Ch. Co., Washington place
Werner, C. F. Jr., 361 Main
ELIZABETH—Electric Construction Co., 255
Morris av
Fleron, Louis F., 49 Broad
Good, John A., 254 N. Broad
Rankin, John R., 88 Broad
ENGLEWOOD—Crum, H. B.
FRANKLIN—Nichols, T. S.
Rusby, Joseph H.
FREEHOLD—Wehster, A. P.
HACKENSACK—Bratt, Bert M. & Co.
Electric Const. Co.
Sneeden, M. H.
HAMMONTON—Littlefield, C. I.
HOBOKEN—Bates, Louis, 417 Washington
Frank, A., 99 Washington
Kenna, Jas. E., 419 Washington
La Pointe, F. A., 607 Washington
Luz, A. M., 126 Grand
*New Jersey Electrical Equipment Co., 112
14th
*O. K. Electric Equipment Co., 505 Wash'n
IRVINGTON—Baab, Fr. W.
JERSEY CITY—Bowe, Pat'k, 322 Barrow
Eclipse Elec. Co., 254 Fairmount av.
*German Mfg. Co., 214 Ocean av
Gould & Hedley (Elec. Plants & Repairs),
102 Morgan
Johnson, Edw., 728 Bergen av
Meconnekin, W. E., 452 Jackson av
Miller, H. E., 115 Sherman pl
Rossiter, MacGovern & Co.
*Williams, Geo. A. Co., 268 Washington
KEYPORT—Bush, Benj. J.
LAKEWOOD—Hoff, Jos. B.
Housen, Wm. F.
LAMBERTVILLE—Lambertville Contracting Co.
LAUREL SPRINGS—Ideal Elec. Co.
LONG BRANCH—Hurley, Austin & Co
Shields, Jas. R.
Young, Theodore
LONG BRANCH CITY—Clark, E. H.
Smith, Nicholas J.
MADISON—Felch, Edwin P.
Hancock, W. M.
*Shea, Dan. M.
MONTCLAIR—Brown, H. P.
Glaister, Jos. W.
Legg, Jas. H., Upper Mont.
Morris, Aug. T.
*N. J. Electrical Construction Co.
MORRISTOWN—Dutton, Willis H.
*Morris County Electric Co.
N. J. Engineering & Constr. Co.
MOUNT HOLLY—Davis, W. H.
Shreve, Jos. S.
NEWARK—Baab, Fred'k W., 45 Market
Beckingham, Jno., 740 Broad
Browe Co., The, 905 Broad
Cooper, Wigand, Cooke Co., ft. Emmett
*Crane, Frank N., 292 Mulberry
Dovey, C. J., 95 Bank
*Electric Motor & Equipment Co. (Specialty
Power Plants), 13 Beaver
Heck, Louis, 35 N. J. R. av
Jackson, H. R., 763 Broad (wiring)
Jost's, Edmund Sons, 350 Plane
McIntire, C. Co., 13 Franklin
Miller Electric Co., 20 William
Moore Electrical Co., 52 Lawrence
Newark Electrical Contracting & Mfg. Co.,
42 Mechanic
N. J. Construction Co., 45 Clinton
N. J. Electrical Co., 188 Mulberry
Phillips, Edw. & Co., 342 Broad
Bunyon & Carey, 122 Market
Tidey, Samuel E., 18 Arch
Wilcox, L. M., 219 Market
NEW BRUNSWICK—Britton, Edwin L.
Mack, Edw.
NEWTON—Ely, E. Dana
Harding, F. W.
NUTLEY—Nichols, Thos., Jr.
Rusby, J. H.
OCEAN CITY—Krauss, Leonard Co.
OCEAN GROVE—Kilbride, L. J.
ORANGE—Aysworth, J. W., 128 Essex av
Baker, Fred'k, 389 Main
Boyce, George R., 205 Main
Brouwer, Sam'l S., 255 Main
Grant, Jas., 172 Watchung av
McKnight, A. C., 389 Main
Salter & Walker, 306 High
Werner, C. F., 372 Main
PASSAIC—Anderson, R. B.
Mechanical & Elec. Equipment Co.
*New Jersey Engineering & Supply Co.
Newman, Chas. R.
PATERSON—Beveridge Electrical Co., 217 El-
lison
Cole, E. S., 129 Main
Keystone Elec. Construction Co., 39 Park av
*Sipp Electric & Machine Co., 1 Mill
Thorpe & Co., 44 Church
Watson-Plagg Engineering Co., Romaine bldg
PERTH AMBOY—Anderson, A. J. & Co.
Southwick, Edw. K.
PITMAN—Lacey, E. L.
D'Oyley, C. P.
PLAINFIELD—Heideloff, Jno. J.
Higgins, Aaron M.
Laird, Allen B.
Mincer, N. M.
Pope, Wm. H.
POMPTON—Smith, H. J.
PRINCETON—Central Elec. & Constr. Co.
Lehman, J. A., Jr.
RAHWAY—Freeman, Frank P.
RED BANK—Shore Electric Co.
Weaver, John
Weberling, Fred'k
SUMMIT—Henry, C. C.
Sohl, Joseph

TOMS RIVER—Hansen, L. S.
TRENTON—*Adams Electric Co., 25 Chancery
 Bennett, Arthur J. Elec. & Machine Co., 120
 Hamilton av
 *Covert, J. W., 214 Bayard
 Merou, M. M., Taylor Opera House
 Freeman, E. H. Electric Co., 100 Hamilton
 Hyde & Bennett, 538 S Clinton bldg
 *Hyde Electrical Construction Co., 45 W.
 Lindley, Robert, 128 S. Stockton State
 Toman Bros., 145 N Broad
 Wallace, M. E. Mfg. Co., Broad Street Bank
VINELAND—Johnson & Compton hldg
 Potter, Elwood C.
WEEHAWKEN—Marks, Leopold B.
 Seeck, John & Bro.
WESTFIELD—Miller, Henry B.
 Peek, George M., Jr.
 Tobin, M. J.
WESTWOOD—Back, E. M.
WILDWOOD—Kalhach Bros.
WOODBINE—Bayard, M. L.
 Springer, E. B.

NEW MEXICO.

ALAMOGORDO—Fisher, Merrill H.
ALBUQUERQUE—Nash Elec. Supply Co.
 Southwestern Elec. & Constr. Co.
ROSWELL—Gunsul, B.

NEW YORK.

(See also Electrical Supplies)

ADDISON—Alorsin, R. W.
ALBANY—Capitol Elec. Works, 9 S. Pearl
 Frost, F. L., 23 DeGraff bldg
 Haveus, M., Jr., 79 Chapel
 Hudson Valley Elec. Supply Co., 26 Beaver
 Lansing, E. P., 58 N. Pearl
 Oliver Elec. Co., 90 State
ALEXANDRIA BAY—Payne, J. W.
AMSTERDAM—Morrison Elec. Engineering Co.
 Tripp, J. D.
ATHENS—Brown, John
 Wolfe, E.
AUBURN—Burns, Daniel J.
 Ehle Elec. Co.
 Yorker, H. E. Elec. Co.
BABYLON—Mansfield, R. M.
BATAVIA—Smith, H. E., Elec. Co.
BATH—Gould & Nowlen
BAY SHORE—Mills, C. J.
BINGHAMTON—Binghamton Elec. Constr. Co.,
 160 State
 Bundy Elec. Constr. Co., 77 Court
 Marvill Elec. Drill Co., Spear
BOONVILLE—Karlson, Sam
BRONXVILLE—Pietsch, J. L.
BROOKLYN—(See New York City, Borough of
 Brooklyn)
BUFFALO—Averill, Frank E., 444 Niagara
 Buffalo Elec. Co., 47 W Mohawk
 Buffalo Electric Contracting Co., 62 Niagara
 Buffalo Engineering Co., Erie Co. Bank bldg
 Cataract Electric Supply Co., 11 Swan
 Childs, Jos. S., 596 William
 De Jarlais, Frank, 395 Ellicott
 *Electric Wiring & Repair Co., 128 Franklin
 *General Electric Co., 681 Ellicott sq
 Gibson, Wm. R. Electric Co., 59 Main
 Gotham, W. P., 253 Washington
 Hartke, August B., 252 Humboldt p'kw'y
 Helvey, O. J., 41 Front av
 Jaynes Electrical Co., 881 Main
 Jones, F. P. & Co., Erie County Bank bldg
 K. W. Electric Co., 16 Elk
 Kinzie, F. L. Installation Co., 40 Little-
 field av
 Little, F. P. Electrical Co., 208 Main
 McCarthy Bros. & Ford, 43 Eagle
 Miller, Frank P. & Son, 195 Massachusetts
 Moran, Michael S., 1419 Main av
 North Electric Co., 518 High
 Perkins Frank C., Erie County Bank bldg
 Peters, Herman L., 260 Pearl
 Petrie, George N., 788 Seneca
 Plumb, Chas., 47 W Swan
 Robertson Electric Constr. Co., 21 Terrace
 Sackett, Herbert L., Builders' Exchange
 Schwan & Miller, 226 Pearl
 Sterns Electric Equipment Co., 316 Pearl
 Sterns, J. C. Electrical Co., 259 Pearl
 Streicher, Charles W., 197 Pine
 Star, Isaac, 375 Michigan
 Westinghouse Electric & Mfg. Co., Ellicott
 White Electrical Co., 166 Allen sq
 Woolverton, G. C., 444 Niagara
COHOES—Hoffman, R.
CORTLAND—Cortland & Horner Electric Co.
 Southwick & Rood
COXSACKIE—Upper Hudson Electrical Co.
DUNKIRK—Dunkirk El. Constr. Co.
 Hawker, W.
 Palm, J.
 Steger, F. R.

FORT EDWARD—Howe, Arthur J.
FREEPORT—Walling, H. A.
FULTON—Van Duyn, A. H.
GENEVA—Jones, W. C. & Co.
 Place, J. A.
GLEN COVE—Gamp & Rose
 Nassau Co. El. Const. Co.
GLENS FALLS—Kanes Falls Electric Co.
 *Taylor, Seymour.
GLOVERVILLE—Fulton County Electrical Cons.
 & Supply Co.
 Stewart & Jansen.
 Welch, Frank L.
GOWANDA—Sipple, Chas. E.
JAMESTOWN—Hanson El. Co.
 Jamestown El. Co.
HAMMONDS—Reynolds, W. E.
HAVERSTRAW—Rembe, L. F.
 Strant, W. H.
HERKIMER—Harter, M. S.
HUNTINGDON—Harter, M. S.
HUNTINGDON—Palmer, A. M.
 Suffolk El. Co.
ITHACA—Ithaca El. Contr. Co.
KINGSTON—Legg, H. B.
 Mellott, Chester B.
LOCKPORT—Korff, W. El. Co.
 Stone, F. G.
MAMARONECK—Haight, Dan'l W.
MECHANICSVILLE—Collins, H. R.
MIDDLETOWN—Enterprise Electrical Co.
MOUNT VERNON—Brittingham, A. D. & Co.
 Brown, Geo. H.
 Hitchcock, Alfred M.
 McIntyre, Harry C.
NEWBURGH—Central Hudson Constr. Co.
 Dotzert, Jas. H.
 *Hewitt & Warden
 Highlands El. Co.
 *Hyer-Sheehan Electric Motor Co.
 Laubenheimer & Co.
 Thorpe, W. Grant.
 Wittman, Geo. J.
NEW ROCHELLE—Wallace Bros.

NEW YORK CITY.

Borough of Brooklyn.

BROOKLYN—Acme Electrical Construction Co.
 350 Fulton
 Apgar, Gillard W., 134 Concord
 Attie, J. F. El. Engineer Co., 283 Flatbush
 Bainbridge & Taylor, 411 Gates av
 Barrell & Treshen, 1234 Fulton
 Beach A. L., 1139 57th
 Blanchard, F. G., 45 Willoughby
 Boyle, Wm. & Son, 1624 B'way
 Braillard, Francis T., 49 Hall
 Brown, Addison W., 195 Montague
 Brown, M. S. & P. C., 5 Myrtle av
 Clark, Chas. H., 1621 Fulton
 Cochen, L. C., 100 Rutledge
 Consolidated Electrical Supply Co., 33 Bond
 Corduan & Freund, 743 3d av
 Electric Contracting & Repairing Co., 391
 Myrtle av
 Fallek, H., 247 Atlantic av
 Finkelstein, Max, 144 Watkins
 Fletcher, William, 760 Fulton
 Fortenbach, E. & Co., 502 Liberty av
 Forker, Julius O., 1353 Fulton
 Guinan, Peter & Co., 329 Cumberland
 Huth, Wm., 635 Grand
 Johnston, Jos., 415 Cumberland
 Krabbe, Christian, 168 B'way
 Kruger, John L., 953 Myrtle av
 Kunz, F. W., 138 Utica av
 Laing, Chas. W., 179 Nassau
 Lange, Adolph, 274 Flatbush av
 Levine Electric Equipment Co., 310 Bedford
 *Lillienstern, I., 261 Atlantic av
 Lonnborg, Ernst, 14 Clinton
 Luce, John B., 49 Willoughby
 Manquis, R. & Sons, 189 Atlantic av
 *Martin El. Co. (Engineers & Contrac-
 tors), 90 Verona
 Mattfeld, John A., 418 Tompkins av
 Mayer, Jno. F., 457 DeKalb
 Meyer, Wm. H., 353 Myrtle av
 Mezger & Co., 12 Clinton
 Moncrief & Dean, 1258 B'way
 Myers, Noel A., 708 Fulton
 Newherger, A. Electric Co., 1153 Myrtle av
 O'Rorke, P., 41 B'way
 Oesterling, John, 318 Court
 Randell, H. E., 427 Clinton
 Samuelson, Wm., 250 7th av
 Schaefer, John, 1034 B'way
 Schaefer's Electric Construction, 370 Pearl
 Thompson-Bonney Co., 45 York
 Ward, F. H., 391 Myrtle av
 Ward, Richard J. & Son, 1001 Atlantic av
 Weideman, Geo. Electric Co. (Inc.), 191
 Flatbush av
 Weimann, A. J. & Co., 347 76th
 Wundoehl, Marcus L., 487 5th av

Boroughs of Manhattan & Bronx

NEW YORK—Acorn Engineering & Mfg. Co.,
 27 Thames
 Aldrich & Hill, 647 E 147th
 Alexander, Harry, 20 W 34th
 American Electrical & Maintenance Co., 122
 Center
 American Electric Construction Co., Prospect
 & Westchester aves.
 Arc El. Constr. Co., 2086 Lex av
 *Archer, G. F., 30 Cortlandt
 Armstrong, F. C. & Co., 788 Westchester av
 Arnold Electric Power Station Co. (Light-
 ing & Power Installation for R'y Shops,
 etc.), 314 Madison av
 Baker, Chas., 557 E 141st
 Baker, R. J. & Co., 145 W 42d
 Barnett, H. C., 923 6th av
 Barre, J. S. & Co., 25 Fulton
 *Bateman & Miller, 145 E 23d
 Beinert, Geo. D., 43 E 8th
 Bell Electric Motor Co., 140 Prince
 Bellmer & Co., 49 Broad
 Bender, Geo., 137 Center
 Berg & Co., 39 Vesey
 *Bidstrup, J. F. & Co., 30 Frankfort
 Bigelow, J. J., 170 B'way
 Bihin, J. S., 281 W B'way
 Bissell Bros., 552 W 24th
 Blackall & Baldwin, 39 Cortlandt
 Blackman & Guttman, 75 W 125th
 Bogart, A. L. Co., 123 Liberty
 Bohn, C. C. Electric Co., 780 6th av
 *Borne, Chas. A., 62 Grand
 *Boyd Equipment Co. (Power Plants & Wir-
 ing), 90 West
 Braun, Oscar C., 149 E 22d
 Brown, Chas. F., 319 E 23d
 Brown, S. Arthur & Co., 126 Liberty
 *Brown & McClure, 160 5th av
 *Brussell, Dennis C., 15 W. 29th
 *Buckelew, A. W., 136 Liberty
 *Burkart, J., 1123 B'way
 *Buschman, A. J., 72 W 38th
 Camp, Chas. F., 1123 B'way
 *Carr, T. F. & Co., 232 Columbus av
 Chapman, H., 260 W B'way
 Christesen, C. A., 452 Amsterdam av
 Christensen, Emil, 194 7th av
 Christman & Merrin, 1442 Boston rd
 Chute, Fred. S., 38 W 33d
 Clarke & Conlan, 27 Thames
 *Cleveland & Ryan, 26 Cortlandt
 Clinch Electric Co., 127 E 23d
 Cohn, Frederick W., 1122 Madison av
 *Commercial Construction Co., 114 E 28th
 *Comstock, L. K. & Co., 114 Liberty
 *Coho, H. B. & Co., 14 W 29th
 **Conduit Wiring Co., 14 W 29th
 Consolidated Telegraph & Electrical Subway
 Co., 55 Duane
 Contractors' El. Co., 7 E 42d
 Corbit, W. H., 258 4th av
 *Craske Co., Ernest, 649 Columbus av
 *Crocker-Wheeler Co., 81 Dev
 Davidson, Chas., 99 Wall
 Davis, L. S., 451 Amsterdam av
 De Coster, H. F., 35 W 21st
 *Dittrich & Co., 117 W 125th
 Donat, W., 990 6th av
 Duffy, W. F. & Co., 96 Warren
 *Durbrow-Hearne Mfg. Co., 12 Wooster
 Duval, C. H., 61 Beekman
 Eaton, S. Edw. & Co., 662 Hudson
 Ehenstein & Fallon, 62 W 125th
 Edwards & Co., 407 E 144th
 Edwards Electrical Construction Co., 39 W
 42d
 Egan, Grant L., 61 Fulton
 Eidlitz, Chas. L. Co., 1168 B'way
 Einbigler & Adler, 56 New
 *E. J. Electric Installation Co., 13 E 30th
 Electric Bell & Guarantee Co., 703 Colum-
 bus av
 Electric Construction & Supply Co., 27
 Thames
 Electric Contract Co., 204 Center
 Electric Installation & Equipment Co., 220
 Grand
 *Electric Light & Railway Equipment Co.,
 44 Broad
 Electric Light & Vehicle Repair Co., 35 W
 43d
 Electric Motor Inspection & Repair Co., 1
 Beckman & 34 Centre
 Electric Power & Equipment Co., 150
 Nassau
 Electrical Equipment & Inspection Co., 320
 B'way
 Electrical Mechanics Ass'n, 150 Nassau
 Electrical Repair Co., 136 Liberty
 Electrical Constr. & Mfg. Co., 25 3d av
 Electrical Contr. & Maintenance Co., 311 W.
 116th
 *Electro-Dynamic Co., 5 Nassau
 Electro-Mechanical Co., 132 Prince
 Enterprise El. Co., 1133 B'way
 Eschwei Electric Co., 155 E 26th
 Fauerbach, J., 139 W 19th

Fajans, Isidor, 54 Lexington av
 *Finkelstein, M. F., 153 Canal
 Flinn, John J., 1326 B'way
 Fleck, M. F. Co., 101 Beekman
 Flucker & Keedwell, 503 5th av
 *Foster, M. B. Electric Co., 949 B'way
 *Francis Bros. & Jellett (Inc.) (Lighting & Power Plants), 47 E 18th
 Frank & Hannan, 35 W 21st
 Fred, Manay, 51 Union sq. W.
 Freede, J. W., 2902 3d av
 Freibig, Herman, 120 E. 59th
 *Freund, Louis, 2049 Ryder av
 *Gee, E. C., 2 Wall
 General Electric Inspection Co., 114 Liberty
 *General Electric Maintenance Co., 422 W 49th
 Germond & Turner, 29 W. 42d
 Glidden, Burton, 168 E 94th
 Gluck, I., 154 E 3d
 Goldschmidt, A. L., 1135 B'way
 Graham Bros. Co., 663 Hudson
 *Gray, G. R. Co., 39 Vesey
 *Gregory, Chas. N., 162 W 29th
 Guarantee Electric Co., 1630 Park av
 *Hadaway Electric Heating & Engineering Co., 228 W B'way

Hall, Jos. P., 22 Thames
 Hansman, Wm. S., 54 Union sq. E.
 Hanrette & Bentley, 41 W 24th
 *Hatzel & Buehler, 571 5th av
 *Hazazar, E. W., 8 Dover
 Hemmel, A. E. Electric Co., 703 Columbus
 Herzog Teleseme Co., 51 W. 24th av
 Hirsch, E. W. Electric Co., 640 B'way
 *Hoag, P. L., 8 Dover
 Hoffman, Jos., 127 E 23d
 Holcomb, D. S., 60 Center
 *Hughes, Jas. F., Co., 28 Elm.
 *Hunt, John T., 27 E 22d
 *IDEAL ELECTRIC CONTRACT-
 ing Co., 125 E 23d. (See adv. below)

The Ideal Electric Contracting Co.

WM. E. McKEEN, Manager.

Wiring and Electrical Work in
 all Branches.

125 EAST 23d STREET, NEW YORK

Telephone 4172 Gramercy

Ideen & Co., 40 University Pl
 Ihlenburg, F. H., 1469 Lexington av
 Interborough Electric Service Corporation, 138 Liberty
 *Irish, W. F. Elec. Co., 136 Liberty
 Israel, J. & Co., 633 E. 149th.
 Jackson, T. Frederick, 592 Columbus av
 Jones, H. W., 126 Liberty
 Jordan, August, 109 W. 29th
 Jordan Bros., 74 Beekman
 Kabat, H. H., 302 W B'way
 Kast, Rudolph, 717 6th av
 Kaster, G. Curt, 42 Union sq
 *Kelting, Engineer & Supply Co., 119 Pearl
 Kenny El. Mfg. Co. (El. Elevators), 140 Nassau
 *Kinsman Electric & Railway Supply Co., 91 Liberty
 *Kips, J. & Co., St. Ann's av & 161st
 Klein, Nathan, 218 Grand
 Knickerbocker Electric Co., 79 Cortlandt
 Landy Jacob, 2948 3d av
 *Lanigan & Rosemont El. Co., 2 W 3d
 Lasser, Jay, 113 E 59th
 Levi, Morris & Co., 930 3d av
 Lewis, John J., 123 Liberty
 Livingston, Johnson, Jr., & Co., 113 E 22d
 *Lord Electric Co., 949 B'way
 Lund & Miller, 52 Water
 *McLeod, Ward & Co., 27 Thames
 *Mangam, H. I., 599 E 162d
 Manhattan General Construction Co., 11 Pine
 Maintenance Co., 54 Franklin
 *Manufacturers & Inventors Elec. Co., 82 Nassau
 Martin, Horace G., 53 Vesey
 Mautner & Friend, 5 E 13th
 May, S., 636 6th av
 Minkus & Co., 33 W 3d
 Momand, R. E., 305 Columbus av
 *Morlarty, J. L., 120 W 61st
 Mosler, A. R. & Co. (Inc.), 163 W 29th
 *Muecke & Roren, 11 E. Houston
 Munro, Wm. D., 500 5th av
 Murralt & Co. (El. Railways & El. Power Plants), 114 Liberty
 Neilson Bros., 2542 7th av
 Nielsen, Edw., 20 Broad
 *Nimis & Nimis 314 Madison av
 *N. J. Foundry & Machine Co., 9 Murray
 N. Y. Electric Installation Co., 130 W. 25th
 Oberg & Blumberg, 112 W 42d
 Ockerhausen, H. A., 103 E 9th.

O. K. Electrical Construction Co., 725 B'way
 Parker Engineering Co., 18 E 42d
 Pattengell, C. E. Son & Co., 116 John
 Payne, J. Geo., 27 W 24th
 *Pearce, Fred'k, 18 Rose
 *Peet, McAnerney & Powers, 225 4th av
 Peters, Oscar W., 143 W 67th
 Pettes & Randall Co., 150 Nassau
 Pinkham, C. T. & Co., 418 6th av
 Plsch, Frank, 422 W 49th
 Plant, E. & Co., 432 E. 23d
 Pride & Co., 277 B'way
 Randolph & Sullinger, 335 B'way
 Rappolt, H. A., 1871 Morris av
 *Reid & Alberts, 95 Liberty
 *Reilly's James Sons' Co., 122 Center
 Reinwald, H., Jr., 952 Amsterdam av
 Reis & O'Donovan 1123 B'way
 Robb, David, 130 W. 49th
 *Roberts, James H., 430 W B'way
 *Roman, Jos. M. & Co., 136 Liberty
 *Ross, E. L., 614 E 138th
 *Ross, F. C., 255 Greenwich
 Rossiter, MacGovern & Co. (Power Plants & Repairs), 90 West

Rouquette & Co., 47 Dey
 Rousseau, David 310 Mott av
 Rousseau, J. M., 57 E 59th
 *Ruggles-Coles Engineering Co., 39 Cortlandt
 *Russell Elec. Co., 500 5th av
 *Sandbach, B. W., 101 Prince
 Sanitary Engineering Co. (Consulting), 237 B'way
 *Saruya Engineering Co., 320 B'way
 *Schmitt, H. M., 498 Columbus av
 Schoenberg, R. A. & Co., 906 6th av
 Schreiber, H. A., 403 E 6th
 Seaboard Electric Equipment Co., 26 Cort-
 landt
 Shaver, J. S. & Son, 676 E 131st
 Sheehan, W. M. & Co., 136 Liberty
 Simpson, Alex. B., 126 E 41st
 Smith & Bernecker, 4 W 14th
 Spencer Electrical Co., 163 Greenwich
 Spiro, The Co., 121 Delancey
 Stehlin-Miller Co., 614 Madison av
 Standard Underground Cable Co., 56 Liberty
 Stevens, R. C., 2126 Washington av
 *Stevens-Hewitt Eng. Co., 13 Park Row bldg
 *Strauss, L. L., 13 E 125th
 Sullinger, Park, 315 B'way
 Sundh El. Co., 114 Cedar
 Sutherland, Alex. M., 49 Wall
 Thayer, W. N. Co., 784 6th av
 Thomas & Johnson, 183 Greenwich
 Truswell, Wm. & Son, 16 Cedar
 *Tucker Electrical Construction Co., 35 S William

Ullman, I. W. & Co., 841 E 145th
 United Electrical Mfg. Co., 53 Vesey
 United States Electric Protection & Con-
 struction Co. (Inc.), 23 Duane
 Universal Electric Stage Lighting Co., 1395
 Van Loan, I. S. Co., 79 E 130th B'way
 Van Wagoner-Linn Construction Co., 110 W
 Victor Electric Co., 729 6th av 28th
 Vielberth, J. F., 633 Prospect av
 Waintrib, Jos. S., 390 Grand
 Wappler Electric Controller Co., 177 E 87th
 Warner, Geo. M., 15 Cortlandt
 Watson Flagg Engineering Co., 27 Thames
 Weber, Geo., 38 Great Jones
 Weideman, Geo. Elec. Co. (Inc.), 35 Rose
 *Westinghouse, Church, Kerr & Co. (Engi-
 neers & Constructors), 8 Bridge

*Whiteley, Alfred, 54 John
 Whitney, A. R., Jr., Co., 135 B'way
 Whitney, L. A., 65 5th av
 Whitton & Eichman, 661 6th av
 Williams, Edwin & Co., 136 Liberty
 Wolfe, Julius E., 204 E 85th
 Wolfsohn, A., 250 Monroe
 Woods, L. H., 2357 Jerome av
 Wortley Electric Motor Co., 150 Nassau
 Zolinsky, N., 114 W. 135th

Borough of Queens.

FAR ROCKAWAY—Hobby, Wm. J.
 FLUSHING—Andrews, Frank E.
 Doncourt A.
 JAMAICA—Watts, J. Fletcher
 LONG ISLAND CITY—Cook El. Co., 342 Vernon av

(END OF NEW YORK CITY)

NIAGARA FALLS—Gump, Walter B.
 Lee, J. D.
 Oliver, F. W. Co.
 NORTH TOWANDA—Jacobs, E. P. & Co.
 Hewitt, Jas. S. Electric Co.
 NYACK—Burke, E. C.
 OGDENSBURG—Delanie, S. G.
 Gould, Geo.
 OSWEGO—King Bros.
 POUGHKEEPSIE—Conley, W. G., 31 Market
 *Pease, Edw. N.
 *Pickenpack, M. S.

PLATTSBURG—Smith, C. W. & Co.
 RIVERHEAD—Edwards, J. I.
 ROCHESTER—Almstead Electric Co., 59 State
 Atkinson, Thos. W., 12 Front
 Babcock Electrical Co., Livingston bldg
 Bradley, E. C. & Co., 15 Stone
 Crescent Electrical Mfg. Co., 5 Prospect
 DeRoller, George A., 169 William
 Emery, I. C., 284 State
 *Fish & Horton, 123 Mill
 Flower City Electric Co., 39 Market
 Loeffler & Sykes, 16 Front
 McDonell & Dumond Co. (Wiring, etc.), 32 East av
 Schmltd, Rudolph & Co., 51 E Main
 *Standard Elec. Construction Co., 32 N Water
 Sterns, J. C. Electrical Co., 32 N Water
 Wheeler-Green Electric Co., 57 St. Paul
 ROCKAWAY BEACH—Frankel, Arthur M.
 SANDY HILL—Wright, Wm.
 SARANAC LAKE—Eicholtz, H. F., Constr. Co.
 SARATOGA SPRINGS—Wallace, Ch. H.
 SCHENECTADY—Burns El. Works, 442 State
 Kelly, John, 205 State
 Schermerhorn, M. H., 404 State
 SEA CLIFF—Camp & Rose
 Nassau County El. Constr. Co.
 SYRACUSE—*Archbold-Brady Co. (Lighting & Railways)

Chadwick, F. A. & Sons, 211 W. Fayette
 *Cornwell, R. M. Co., 416 S Salina
 Cronin, David & Co., 324 S. Warren
 Donnes, Edw. S., 115 Peach
 Gersbacher, G. A., 237 South av
 Gorke, H. J., 216 W Wash.
 Gough, W. H. El. Co., 214 W. Washington
 Miller, L. O., El. Co., 220 S. Salina
 Nottingham, W. N., 508 N Salina
 *Rogers & Hilton, 221 Walton
 Standard Electric Co., Nottingham bldg
 Syracuse El. Co., 102 S. Warren
 TARRYTOWN—Hall, H. B. & Co., Depot Place
 TROY—*Barne & Payton, 273 River
 *Bernard, E. G. Co., 1918 6th av
 Brown, Edwin N., 2233 6th av
 Dorlon, Philip S. & Co., 407 Grand
 Powers & Mansfield Co., 280 River
 Premier Electrical Co., Times bldg
 Rensselaer El. Co., 410 River
 Scott Bros., 256 3d av
 Troy Electrical Co., 1934 6th av
 TUXEDO PARK—Vail, Wm. & Son
 TUCKAHOE—Underhill, Harry F.
 UTICA—Bossert Electric Construction Co., 24 Capital av
 Brayton & Hooks, 50 Lafayette
 B. & C. Electric Construction Co., 228 Bleecker

Dent, Matthew F., 81 Washington
 Johnson & Morton El. Co., 44 Whitesboro
 Roberts & Norton, Franklin & Fulton
 Utica Armature Works, 304 Bleecker
 Utica Electric Co., 159 Columbia
 *Utica Gas & Electric Co., 217 Genesee str
 WATERLOO—Nugent & Co.
 WATERTOWN—Green, Warren
 Kenney El. Co.
 Smith Elec. Eng. Co.
 WHITE PLAINS—Feeley & Fish
 Haight, L. W.
 Reynolds, W. F.
 YONKERS—Francis & Dewey El. Co., 7 Wells
 Francis & Gottheil, 28½ N B'way av
 Nugent, A. W., 5 Dock
 Westchester El. Equipment Co., 34 N.
 Wilson, John H., 72 N. B'way B'way

NORTH CAROLINA.

ASHEVILLE—McKay, El. Co.
 Piedmont El. Co.
 CHARLOTTE—Auten, R. G. Co.
 Bernhard, Jno. H.
 Charlotte Consol. Constr. Co.
 Hornet Nest Electric Co.
 Sampson, F. D. (Supt. Southern Power Co.)
 *Smith Electric & Mfg. Co.
 *Tompkins, D. A. Co.
 DURHAM—Durham Traction & El. Co.
 ELIZABETH CITY—El. Constr. & Supply Co.
 GREENSBORO—Armfield, L. Clay
 Foister, M. D.
 Marrow, W. D.
 RALEIGH—*Carter, Will J.
 Raleigh Constr. Co.
 SALISBURY—Acme El. Co.
 WAYNESVILLE—Killan El. Co.
 Richland El. Co.
 WILMINGTON—El. Supply & Constr. Co.
 Southern El. Co.

NORTH DAKOTA.

FARGO—Becker, F. J.
 Northern Electrical Co.
 Halt, Dahlag & Riley
 GRAND FORKS—Grand Forks El. Constr. Co.
 McGeoy, Thos. J.

OHIO.

(See also Electrical Supplies)

AKRON—*Cleveland Construction Co. (Light Power & Elec. R's, R.)

Conner, J. H., Arcade Bldg
 Davis, H. C., 103 The Viaduct
 Jahant, El. Co., 127 Howard
 Loomis, C. H., 39 Viaduct
 Nailler, R. F., 238 S Howard
 Reed, R. B., El. & Engineering Co., 51 E
 Wolfspurger, W. R., 54 E Market Market
ALLIANCE—Fuhr, L. A.
 El. Constr. Co.
 El. Supply & Constr. Co.
ASHTABULA—Graves, F.
BARBERTON—Franks, J. W.
 Hublinger, N.
 Schubert, C. H.

BEDFORD—Kaltenbach & Grless**BELLAIRE**—Bellaire Electrical Co.
Buckeye El. Co.**CANTON**—Central El. Co.

Forrester, Edwin H.

Everard, H. H.

Kuchin Electric Co.

Vincent & Linerode

CINCINNATI—Beattie Electrical Co., 332 W
Becker, Albert, S W. 6th 4th

Beltzhoover Electric Co., 620 Main

Cameron Electric Co., 1122 Elm

*Carlisle & Finch Co., 231 E. Clifton av

Central Electric Co., 5th & Main

*Creaghead Engineering Co. (Elec. R's),
315 Walnut

*Devere Electric Co., 234 W. 4th

Drew, Stanton H., 540 Main

Electrical Appliance Co., Com. Trib. bldg

Fitzsimmons Telephone Mfg. Co. (Telephone
Construction, etc.), 5th & Sycamore

Freel-Schuenemann, 919 E McMillan

Gerard Electric Co. (Supplies), 134 E 3d

Hauss, D. J. (Power & Lighting Plants),
Mitchell bldg

Herschede, Thos., 917 Main

Hills, S. W., Jr., Electric Co., 238 E 4th

Hoffmann, Hermann, 1706 Vine

Houillion, Edward, 1021 Marshall av.

Huber, Otto, 4th & Main

Jones, A. L., 534 Walnut

*Kelley Electric Co., 409 Elm

*Lieber, Elmer S., 222 W 4th

*Lawton Electric Co., 325 W 4th

Redway, A. J. & Co. (Insulation) (Ap-
pliances, Tools) (Materials), 1728 Read-
ing, R. D.

Rellance Electric & Mfg. Co., 832 W 6th

Reuter, Wm. G., 25 E 6th

Richter Electric Co., 406 Pennsylvania

Rugg Electric Co., Com. Trib. bldg

Schopper, F. D., 512 Race

*Schulman, A. S., Perin bldg

Scott, J. W. Light & Supply Co., Pickering
bldg

Stewers, C. L., 712 Vine

Stenger, E. H., 715 Vine

Stenger, Fred, 1333 Main

*Stewart Electrical Co., 311 E. 5th.

Stewart, John A., Electrical Engineering
Co., 430 Sycamore*Sullivan, G. W. & Co. (Repairs, etc.), 118
LougworthTriumph Electric Co., (Dynamos), 616 Bay-
Woodberry, Chas. C., 414 W 4th miller**CLEVELAND**—Acme Electric Co., Citizens' bldg

Bateson Ch. C., 620 Caxton bldg

Bartlett El. Co., 492 Pearl

Chapman, Geo. E., El. Constr. Co., 2917
Euclid av

Cleveland Armature Wks., 4732 St. Clair av

Cleveland Construction Works

Cleveland Electrical Supply Co., 726 Pros-
pect, S. E.

Cohen Electric Co., 430 Euclid

Crosby, Craft & Co., 311 Citizens Bldg.

*Dainz Electric Co., 323 Williamson Bldg.

Dittrick & Jordan Electric Co., 8700 Lorain

Economy El. Co., 1825 W. 25th

Electric Repair & Construction Co., 2060
E 4thEl Repair & Mfg. Co., 1000 Champlain av.,
N. W.El. Supply & Battery Co., 7510 Woodland
av. S. E.

Elliott Bros. Electric Co., 3864 Hamilton

*Elliott, S. K., 322 Champlain

*Elwell-Parker Electric Co. of Am., 4222
Hamilton

Enterprise Electrical Co., 5307 Euclid av

*Erner Electric Co., 62 Public sq. machin-
ery, etc.

Euclid Avenue Electric Co., 5215 Euclid av.

Excelsior Electric & Mfg. Co., 621 Superior

Fargo, C. E., 52 St. Clair

*Ford, Edw. S., Wade Bldg.

Forest City Electric Co., 5003 Windsor av

Fowler, Harry, 1034 St. Clair

General Engineering Co., 316 Electric bldg

Gillen Electric Co., 5107 Euclid av.

Gupton, Richard E., 122 Water

Hertner El. Co., 14 Frankfort

Jandus Electric Co., 600 Huron

Jones Electric Co., 384 Pearl

King El. Constr. Co., 21 Publ. sq.

Kirby, El. Yorks, 12th & Chestnut av.

Leighton, J. W., El. Wks., 280 Streaton

Martien El. Constr. Co., Cuyahoga bldg

McNerney Electric Co., Colonial Arcade

*North Electric Co., 408 St. Clair, N. W.

*Ohio Electrical Works, 6304 Ellen

OSBORN ENGINEERING CO. (Con-
sulting, for Machinery, Power Transmis-
sion, Buildings, Elec. R's, etc.). (See
adv. index, end of book)

Stuhbs & Mook, 1300 Prospect av.

Time Electric Co., 6309 White av.

Van Dorn-Elliott Electric Co., 2694 E. 79th

Warner Electric Cons. Co., 331 Frankfort

Werk, Frederick C., New England Bldg.

Westinghouse Electric & Mfg. Co., New
England Bldg.Williams-Abbott Electric Co., 1800 E. Mad-
ison

Williams, E. C. El. Works, 6403 Quincy

Williams Bros. & Morse Co., Exchange Bldg

Wingate & Brooks Co., 64 Publ. sq.

COLUMBUS—Baily Fred W. C. (Consulting),
Wyandotte bldg

Beck Electric Repair Co., 7 Levee

Browne, M. S., El. Co., 108 E. Long

Bruce Electric Co., Spring & Front

Columbus El. Works

Correll Electric Co., Eberly Bldg.

Electric Construction Co., 133 E. Long

*Electric, Supply & Construction Co., 80

Erner Hopkins Co., 162 N. 3d E Gay

Hopkins, M. S. (Street Railway), Wyandotte

North El. Construction Co. bldg

Schoedinger, R. G.

The Ross Hull El. Co., 114 N. 3d

*White, R. M., 35 W Long

CONNEAUT—Henderson & Shoupe**DAYTON**—*Dayton Electrical Mfg. Co. (Power
& Light), 38 S St. Clair

Butterworth & Reiter, 18 W 2d

Deal, Karl E., 404 U. B. bldg

Grove, Geo. F., 9 W 2d (motors)

Guyton, C. Electric Co., 125 E 4th

Hall, Wm. Electric Co., 14 W 2d

Karstad, Henry, 40 S Main

Sterling Electric Motor Co., Wayne av &
State

*Thresher Electric Co., Lehman & Forest av

Tyson, Chas. O. Co., 26 N Jeff

EAST LIVERPOOL—Ohio Electric Co.**ELYRIA**—American Construction & Trading Co.

Elyria Plumbing, Heat & Electric Co.

Rawson El. Co.

FINDLAY—Electrical Construction & Supply Co.

The Buckeye El. Co.

FOSTORIA—Fink, Geo. M., 236 N Main**HAMILTON**—Herman, H. E.

Loge, Rob.

LIMA—Angell, C. W.

Ideal Constr. Co.

Reed Bros.

MANSFIELD—Hillyer Electric Co.

Phoenix El. Co.

Richland Electric Co.

Runyan, C. C. (Park av., Mansfield)

MARIETTA—Stanfield, G. A.

Sprague, B. S.

MARION—Cunningham, T. M.

Marion Electric Supply Co.

NEWARK—Banton, A. L.**NEW PHILADELPHIA**—Yale El. Co., 717 W
Fair**NILES**—Lyons, Ed. L.**PORTSMOUTH**—Grimes, Keelhofer & Co.

Portsmouth Electric Supply Co.

SEBRING—McKee, S. E.**SIDNEY**—Koh, Louis, Jr.**SPENCERVILLE**—Benedum & Sisler**SPRINGFIELD**—*Electrical Construction Sup-
ply Co.

Green, J. W., 89 Clifton

Gross, Alpha, 71 W Main

Rolfes, J. W.

Yost Bros.

STEUBENVILLE—Ohio Valley El. Supply &
Construction Co., 205 N 4th**TIFFIN**—Baxter & Brown.**TOLEDO**—Bissell, F. Co., 226 Huron

Christian Electric Co., 323 Adams

Duck, J. J., Empire Arcade

Eddy, Chas. M., 819 Madison av

Fisher Electric Co., 116 St. Clair

Fowler, H. R., 237 Cherry

Grab, Emil, 1310 Adams

Hansen, M. W., Chamber of Com.

*Nagel W. G. Elec. Co., 28 St. Clair

Smith, J. W., Law bldg

Tefft, Fred., 217 Main

Williams & Myers Electric Co., 914 Monroe

Winters Electrical Co., The Spitzer

TROY—American Fixture & Mfg. Co.**WARREN**—Bushnell, H. W. & Co.

Smith El. Co. (Wm. J.)

YOUNGSTOWN—Electric Supply & Construc-
tion Co.

Richards, C. F.

Youngstown Engineering Co.

*Youngstown Engineering Co. (Mechanical)

ZANESVILLE—Fergus Electric Co.**OKLAHOMA.****GUTHRIE**—Burgess & Overton**OKLAHOMA**—Arnold & Wetherbee

Banner El. Co.

PERRY—Fleming & Farmer**OREGON.****ASTORIA**—Caruthers, R. R.**EUGENE**—*Frazer, G. W.**PORTLAND**—Jones & Co., 547 Washington*Northwest Electric Engineering Co., 309
Stark

Pacific El. Co.

*Portland Electrical Works, 353 Stark

Standard El. Co.

Western Electric Works, 61 6th

SALEM—Knox & Murphy**PENNSYLVANIA.**

(See also Electrical Supplies)

ALLEGHENY—Bender, J. C., 109 E Lacock

Boyd & Hertel, 810 W Diamond

Farrell, M. E. & Co., 9 W Robinson

Goethmann, Oscar J.

R. F. Hansen & Hodel, 1624 Beaver av

Keystone Elec. & Mfg. Co., 112 Sandusky

Price Electric Co., 908 Beech av

Stimple & Ward, 817 W Diamond

ALLENTOWN—*Allentown Electric Cons. &
Supply Co.

Lehigh Electric Co.

Smith, Harvey H. C. El. Co.

Thomas Engineering Co.

ALTOONA—*Altoona Electrical Engineering &
Supply Co.**ASHLAND**—McConnell & Bro.**BEAVER FALLS**—Skiff, Chas. W.**BETHLEHEM**—Hill, G. E.**BRADDOCK**—Randolph Electric Co.**BRADFORD**—Langworthy, L. O.**CARLISLE**—Hall, W. N., Jr.**CATASAUQUA**—Morrison, Wm. M.**CHAMBERSBURG**—*Schaff, Jacob G. Elec. Co.
(Power & Lighting)**CHESTER**—Beacon Light Co.

Burk, E. Stanton

Lamont Bros.

Weidner, Fraley N.

COATESVILLE—Thorne, Edwin S.**COLUMBIA**—Bruner & Kerner.

Lancaster El. Supply & Constr. Co.

CORAOPOLIS—Ferree, R. M.**DELTA**—Moore, J. T.**DUBOIS**—Dubois Electric Co.**DUNMORE**—Mittler, G. E.**EASTON**—Bixler, Wm.

Burroughs, J. H.

Davis Electrical Co.

Dewson, Jno. A.

El. Appl. Mfg. Co.

EMAUS—Wicand, U. H.**ERIE**—Baughner, A. L., 553 W 10th

Douglass, F. A., 719 Peach

Electric Equipment Co., 28 N. Park

Erie Mfg. & Supply Co., 1207 Peach

*Keystone Electric Co., 12th & Cranberry

Pudenz, Henry, 32 E 18th

Standard Electric Co., 519 Myrtle

Star El. Co., 513 French

FRANKLIN—Corrin, W. H.**GREENSBURG**—Greensburg El. & Supply Co.**HAMBURG**—Bower, Fred. M.**HANOVER**—Graybill & Co.**HARRISBURG**—Elder, Herbert, 231 State

Hite, M. H., 55 N 13th

Sweetzer, S. G., El. Co.

HOMESTEAD—Grace, A. J. & Co.

Homestead Electric Supply Co.

KANE—Kane Electric Supply Co.**KITTANNING**—Anderson, F. W.

Armstrong El. Co.

LANCASTER—*Deen, Thos. A.

Heiss Electric Co.

Lancaster Electric Supply & Construction
Co.

Schaum, Philip H. (supply dealer)

LANSDOWN—Simons, Edw. L.**LEBANON**—*Lebanon Electric Constr. Co.

Lebanon Electric Co.

Mays, U. Grant

LOCK HAVEN—*Lock Haven Elect'l Supply Co.**McKEESPORT**—Borland & Mills

Dunshee Electric Co.

*Holland, C. C.

Oberlin Electric Co.

MANHEIM—*Bailey, F. E. & Co.**MORTON**—Worrell Electric Co.

Young Bros.

NAZARETH—*Gas & Electrical Equipment Co.
NEW CASTLE—New Castle Electric Co.
 Price, J. A. El. Constr. Co.
 John El. Co.
 Woodworth, H. E.
NORRISTOWN—*Crisman & Quillman
 Norris Electric Co.
 Stegler, Smith & Yocum
OIL CITY—*Corrin, W. H.
OVERBROOK—Mackellar, Herbert
PHILADELPHIA—Adams & Taylor, 1325 Ridge av
 Alexander, Henry F., 1139 Tasker
 Allison, Jno. W. Co. (M. E. Consulting & Contracting), Land Title bldg
 Alpha Electric Co., Heed Bldg.
 American Electrical & Maintenance Co., 38 N 4th
 Arnold, M. E. & Co., 114 N 11th
 Bareford, S. A.
 Balbridge-Durbin El. Co., 26 N. 7th, Philadelphia, Pa.
 Baxter Lighting Co., 121 N 13th
 Beaumont & Co., 224 S 40th
 Beusou, W. W., 925 Chestnut
 Beyerle, Henry, 2223 Fkd av
 Bloomingdale, Alfred M., 4 S 3d
 Blumlein, L. C. & Co., 36 S 16th
 Boyle, R. C. & Co., 4603 Fkd av
 Bridgeton El. Co.
 *Buchanan, J. F. & Co., 36 N 4th
 *Burk & Whittle, 26 N 7th
 *Campbell, W. R., 926 Sansom
 Carter, F. C. & Co., 719 Walnut
 *Central Electric Co., 13 N 13th
 Courtney, F. K., 5853 Gtn av
 Culbert, Edwin, 1337 Susquehanna av
 Culin, F. A. & Son, Provident bldg
 Currier, Eugene, 8529 Gtn av
 Dent, Christopher, 2627 Col av
 Dieuer, Edward H., 30 N Water
 Dodge, Walter D. C., 925 S 46th
 Dodge & Day, Drexel bldg
 Dodson, U. G., 5231 Haverford
 D'Olier, Henry J., Co.
 Domsgen, Otto, 2813 Gtn av
 Eastern Electrical Construction Co., 114 N Broad
 Eckstein, Herman, 1518 Sansom
 Edwards, L. T. (Consulting, Lighting & Power), 1530 Chestnut
 *Electric Construction & Maintenance Co. of America, 1328 Arch
 Electric Equipment Co. of Philadelphia
 Electro Construction Co., 424 Arcade bldg
 Ekins & Co., 1940 Gtn av
 Eugle, Alvin H., 1811 Fairmount av (re-pairs)
 Eutreckin, S. W., 1226 Oxford
 Faber, Ch. P.
 Fisher, Wager, Crozer bldg
 *Francis Bros. & Jellett (Inc.) (Lighting & Power Plants), N Broad & Wallace
 Free, E. Willard, 609 N 56th
 Gentel, Albert, 1505 Columbia av
 Germantown El. Constr. Co., 3145 N Gifford & Henry, 15 S 3d
 *Grauch, Jno. F., Bourse bldg
 Groszwith El. Co., 52 N Lancaster av.
 *Helmemann, Geo. & Co., 737 Girard av.
 Henssler, Herman, 906 N 13th
 Hild, Gereon I., 969 N 10th
 *Hilli, Malcolm W., Co., Land Title bldg
 Hochrath, F. H., Phila. Bank bldg
 Holm, Chas. H., 4123 Lancaster av
 Imperial Electric Co., 1022 Arch
 *Kates, L. S., 1022 Arch
 *Keller, Pike & Co., 1213 Race
 Kensington Electric Co., 2514 Frankford av
 Kenyon, Frank C., 1840 Columbia av
 Keystone El. Co., 135 S 10th
 *Killion, W. F. & Co., 1213 Filbert
 King, Clarence P., Real Estate Trust bldg
 Klepper, J. Walter, 4904 Comley, Wissng
 Kuntzig, H. J., 1374 Beach
 Lancaster Electric Co., 1459 N 52d
 List, Lewis, 520 N 37th
 Loesch, Chas. A., 1714 N 12th
 McCormack, Jas., 8229 Gtn av.
 *McIntire, Walter C. & Co., 506 Commerce
 Malpass, Henry, 1932 Callowhill
 Marsh, Loan J., 1941 Market
 Merchants' Construction Co., 44 N 4th
 Meyers & Co., 1801 Market
 Middleton, Oscar N., 14 Harvey, Gtn
 Miller, Jno. H., 56 N. 7th
 National Contr. & Constr. Co., 1215 Filbert
 National Electric Contracting & Construction Co. (Inc.), Heed bldg
 *Novelty Electric Co., 50 N 4th
OSBORN ENGINEERING CO. (Consulting, for Machinery, Power Transmission, Buildings, Electrical Railways, etc.). (See adv. Index, end of book)
 *Parker, Jos. E., 44 W Chelton av, Gtn
 Penna. Electric Equipment Co., Commonwealth Trust bldg
 Penna. Electrical Wks., 105 N 2d

Peunua. State Constr. Co., Drexel bldg
 Phila. Electric Construction Co., 1215 Filbert
 Phila. El. Equipment Co., Land Title bldg
 Pickering, H. H. & Co., 23 N Juniper
 *Quaker City Electric Co. (Inc.), 2036 Lippincott
 Raymond Electric Co., 501 Chestnut
 Reed & Bros., 160 W Tioga
 Register, A. L. & Co., 112 N Broad
 Richter, Eugene L., 1914 Columbia av
 Riggs, Wm. F. & Co., 12 S 19th
 Royal El. Co., 25 S 16th
 Ruane & Bayley, 5158 Haverford av
 *Rumsey Electrical Mfg. Co., 1211 Filbert
 Sachsenmaier, Geo., 1220 Filbert
 Scott, Robt., Eng. & Constr. Co., 1716 Ludlow
 *Shean, John, Lippincott bldg
 Shetzline, W. F., 1714 Sansom
 Slesman, Jacob, 105 N 2d
 *Smethurst & Allen (Specialty Elec.), North American bldg
 *State Construction Co. (Complete Light & Power Plants), Land Title bldg.
 Stanley, G. I., Electrical Mfg. Co., North American bldg
 Sterling Electric Mfg. Co., Arcade bldg
 Strang, R. C., 723 Walnut
 Supplee, Harry S., 1033 Market
 Swayze, H. B., 1726 N 22d
 Thornley, 914 Walnut
 Ulary, William A., & Meyers, P. M., 119 N. 6th
 Union Electric Construction Co., Phila. Bourse
 United El. Constr. Co., 1714 Sansom
 Vieth, Henry A., 605 N 53d
 Wagner El. Mfg. Co., Farmers' Bk. bldg
 White, William M., 2431 N 8th
 Wilson, Harper & Co., 1914 Chestnut
 Windle, A. & Son, 5409 Westminster av
 Worrall & Sechrist, Lippincott bldg, 46 N 12th
 Worrell Electric Co., 641 Arch
PITTSBURG—Adams Electric & Mfg. Co., 213 9th
 American Electric Alarm Co., 612 Wood
 Axthelm Electric Co., 314 4th av
 Bender, J. C. Estate, 109 Lacock, E. A.
 Brady, Frank J., 5934 Broad
 Bream, H. H. & Co., Penn bldg
 Briggs El. Machinery Co., 238 2d av
 *Brown, Jas. & Son Co., 207 Wood
 Buckeye Electric Co., Empire bldg
 Bullock Electric Mfg. Co., Frick bldg
 Burke Electric Co., Park bldg
 Cable, Daniel J., 241 1/2 5th
 *Carter Electric Co., Lewis blk
 Clarke, John J., 6339 1/2 Frankstown av
 Clayton Electric Co., 6223 Penn av
 Crescent Electric & Mfg. Co., 24th & Spring
 Criss Electric Co., 29 Washington av
 Croneweth & Patterson, 5620 Wellesley av
 Daugherty, Andrew E., Penn bldg
 Dickson, Frank A., Lewis bldg
 Duquesne Electric Co., 247 Water
 Duquesne Incandescent Light Co., 7000 Ben-nett
 Ecklund, A. E., Wells & Augusta
 Eldridge, Albert E., 136 9th
 Electric Chemical Co., 5936 Penn av
 El. Supply & Construction Co., 407 4th av
 Engineering & Equipment Co., 407 7th av
 Evans-Becker Electric Co., Park bldg
 Evans, G. T. & Co., 115 9th
 Farrington, John, 443 Smithfield
 Fort Wayne Electric Work, Empire bldg
 Frey, Jno. C., 144 S Highland av
 *General Electric Co., Park bldg
 General Electric & Repairing Co., 439 4th av
 Giegerich, A. P. El. Co., 2108 Center av
 Grant, H. A., 5124 Liberty av
 *Hays, Jas. W. (Isolated Plants, Pole Lines, Mine Work, etc.), 341 5th av
 Hill, Chas. K. Electric Co., 2315 Penn av
 Hoover, H. H., McCance blk
 *Iron City Engineering Co. (Power, Light, etc.), Frick bldg
 Keystone El. Co., Frick bldg
 *Keystone Engineering Co., Farmers Bank
 Knox, George S., Penn bldg
 Leonard, Wm., 15 Decatur
 Luster Electric Co., Ferguson blk
 Mathieu, Geo. R. El. Co., 6000 Hoeveler
 *Miller Electrical Construction Co., 347 5th
 Miller & Craig, 426 4th av
 Morgan-Gardner Electric Co., 127 4th av
 Morgenstern-Ochiltree Co., 510 4th av & 325 2d av
 Oakland Electric Co., 3908 5th av
 *Orr & Howe Electric Co., 237 4th av
 Peacock, Thos., 545 Liberty av
 Penna. Electrical & Railway Supply Co. (Specialty Repairs), Lewis blk
 Pinkham Electric Co., 531 Smithfield (Repairs)

Pittsburg Electrical & Machine Works, 3 Barker pl
 Pittsburg Electric Construction Co., Imperial Power bldg
 Pittsburg Incandescent Supply Co., 1334 5th av
 Smith-Thompson Electric Co., 238 4th av
 *Springer & Patterson, 319 4th av
 Sproul & Johnston, 5809 Penn av
 Steel City Electric Co., Imperial Power bldg
 Steele, R. A. M., 128 S Highland av
 Sturm, Jno. L. & McKim, 312 2d av
 Switchboard Equipment Co., Lewis blk
 Tennis Bros. Co., Times bldg
 Troude, Frederick, 700 N St. Clair
 Union Electric Co., 824 5th av, 31 Terminal Way
 *Union Electric & Engineering Co., 424 4th av, 104 Market
 U. S. Battery Co., Penn. bldg
 Wagner Electric Mfg. Co., Farmers Bank bldg
 Westinghouse Electric & Mfg. Co., Westinghouse bldg
 Yoest, Joseph Z., 4721 Liberty av
 Young Bros., Bessemer bldg
POTTSTOWN—Roeller, Wm. H. & Co.
POTTSVILLE—Argall, S. J.
READING—Arrowsmith & Co.
 Berks El. Co., 13 S 4th
 Deem El. Constr. Co.
 *Electric Equipment Co.
 National Engineering & Electric Co.
 *Reading Electric Co., 9 N 5th
 Reading Electrical Supply & Construction Co., 641 Penn
SCRANTON—Fries, W. H., 213 Lackawanna av
 Hartman, H. F., 1109 Jackson
 *Harvey, Wm. A., 309 Commonwealth bldg
 Huttou & Kiple, Commonwealth bldg
 *Scranton Electrical Construction Co., Con-scranton Electrical Wks. nell bldg
 Scranton Supply & Machinery Co.
 Union Electric Co., Connell bldg
SHAMOKIN—*Central Electrical Supply Co.
SHARPSBURG—Meyer, W. C. & Son
SOUTH BETHLEHEM—Drumbor, C. E.
SPRING CITY—Heck, Harvey
TATAMY—Dufford, Wm. H.
UNIONTOWN—Helmey, W. H.
 Weller & Gray.
VANDERGRIFT—Breig, Geo. F.
WAYNESBORO—Singer-Geiser Electric Co.
 Stewart & Spangler
WILKES-BARRE—*Hessel, Lewis & Co.
 *Rice, Jos. S.
 *Roth, Ernest T.
 Shepherd & Rust
WILKINSBURG—Peler, Adolph
WILLIAMSPORT—Douty, John G.
 Noll-Riley Electric Co.
 Prior & Sallada
 *Williamsport Electric Constr. Co.
YORK—*Graybill, Jno. E.

RHODE ISLAND.

NEWPORT—Blackman, C. R., Jr., & Co.
 Burland, A. E.
PHENIX—*Hoxie, F. J.
 Phenix El. Co.
PROVIDENCE—*Arnold, Chapin T., 283 Westminster
 *Boston Electric Co., 123 Dorrance
 *Bowen Electric Co., 58 Point
 *Doetert, A. J. & Co., 27 Westminster
 Ferris & Salesbury, 54 N Main
 Gannett Electrical Co., 90 Weybosset
 Lindsley & Allen, 257 Eddy
 Payson, Stephen R., 75 Westminster
 Rhode Island Electrical Equipment Co., 43 S Main
 Rhode Island Telephone & Electric Co., 24 Calender
 *Rust, Herbert B. & Co., 14 Peck
 *Scannevin & Potter, 24 Page
 *Thurston, Geo. H. & Co., 63 S Main
WOONSOCKET—Brown, G. M.
 *Woonsocket Electric Machine & Power Co., 61 Front

SOUTH CAROLINA.

AIKEN—Aitken El. & Constr. Co.
 Rothrock, W.
CHARLESTON—*Electric Supply Co., 154 Leamond, Fred. Meeting
 MacMillan, Jno., 195 King
COLUMBIA—*Cotton States Electric & Machine Garren El. Co. Co.
 Perry, Wm. M.
FLORENCE—Morrison, E. C.
GEORGETOWN—Ingeman & Bryan.
GREENVILLE—Asbury, W. D.

SOUTH DAKOTA.

MITCHELL—Andrews, C.
Austin, Geo.
SIOUX FALLS—Hanson, C. P.
Symms & Powers.

TENNESSEE.

CHATTANOOGA—Steffner, Frank, 816 Georgia
*Sweet, Frank P., 12 E 9th
Teas, W. C.
Terrell, H. T. & Co.
DYERSBURG—Blake, C. E.
JACKSON—Anderson, G. C. & Co.
KNOXVILLE—*Knoxville Electric Co.
Reliable El. Co.
Southern Brass & Iron Co.
MEMPHIS—*Bailey, J. A. & Co., 2d & Union
Boardman El. Co., Court
Browne & Borum Co., 254 2d
Dillard, J. V. & Bros., 123 Monroe
Electric Novelty Co., 43 Monroe
Hartwell & Gray, Main
Nichol, J. C., 250 Poplar
Richmond Bros., 69 Union
Roberts, J. N. & Co., 328 2d
*Robinson & Co., 65 Jefferson
Slater, Wm., 59 Court
Tisdale, Lew & Co. (Supply)
NASHVILLE—Braid Electric Co., 234 N Market
Chester, J. W. & Co., 114 N College
Consolidated El. Co.
Grewar, Wm. H., 629 Church
Herbrick, Lawrence & Finnegan, 607 Church
Pentecost & Carter, 429 N Cherry
Standard El. Co.

TEXAS.

AUSTIN—Austin Electric Supply Co., 703 Con-
gress av
Burke, W. A., 814 Congress av
BEAUMONT—Keith El. Co.
Ott, C. J. & Co.
Tuggle, Geo. W.
DALLAS—*Clower, W. M., 310 Commerce
*Dillon Machine Co., 109 S Market
Eagan, Geo. H. & Co., 291 Main
Hunter-Farry
*Liscomb & Garrett, El. Co., 293 Main
McElroy & Sterrett
*Southwestern Electrical Engineering & Cons.
Co., 177 Main
*Sutton-Steele Electrical Mfg. Co., 194 Jef-
ferson
EL PASO—El Paso El. Supply Co.
Pass City El. Co., 419 Oregon
J. M. Power El. Supply Co., 110 Texas
Texas Electrical Supply Co., 116 N. Stanton
FORT WORTH—Anderson, A. J., 410 Houston
Hooker, D. S., 1400 Kuroki
Shedd El. Co., 1202 Main
Worth El. Co., 107 W 9th
GALVESTON—Barden-Sheets Electrical Cons.
Co., 2207 Mechanical
Levy, Max, 2020 Market
Rutledge, Thos. J., 3550 O
Young & Cohen, 2109 Post Office st
GREENVILLE—Armistead & Ende
HOUSTON—*Barden Electric Machinery Co.,
109 Main
Cramer & Rosenthal, 1010 Prairie av
Hurlburt-Still Electrical Co., 1015 Prairie
Jones, Fred A., Binz bldg
Krantz, Sam, 85 Spruce
Miller, Louis E., 1210 Congress av
SAN ANTONIO—Braden O'Neil El. Co.
Dubinsky El. Wks.
Kearney, Stephen W.
Shafer, A. Harper
Schuwirth, W. G.
Talcott El. Co.
Wright, Martin
TEXARKANA—El. Engineering Co.
El. Supply Co.
WACO—Berstrou, J. L.
Central El. Co., 625 Austin av
*Electrical Construction Co.
*Provident Electric Co.
Vessy El. Co., 608 Austin
*Waco Electric Supply & Plumbing Co.

UTAH.

OGDEN—El. Supply & Fixture Co., 2524
Wash'n av
Smyth Bros., 2649 Wash'n
SALT LAKE CITY—Chase, R. J.
Farrell, J. W. & Co.
Highly & Co.
Holding, E. G.
Inter-Mountain Electric Co., 45 E 1st, S
Salt Lake City Electric Supply Co., 15 W 1st
Trent, L. C. & S. V., 208 S West Temple
Utah Elec. & Supply Co., 15 W 1st South

VERMONT.

BRATTLEBORO—Walker, H. D.
BURLINGTON—Northern El. Co.
Poland, Jno. B., 156 Bank
*Sherwin, Geo. D., 102 Church
MONTPELIER—Blanchard, Fred.
Sawyer, Jas.
Viles Electric Light Plant
RANDOLPH—McIntyre, H. W.
READSBORO—Crosier, Frank
RUTLAND—Paulson, T. F.
Rutland City El. Co.
ST. ALBANS—Lewis, E. B.
WINDSOR—Baker, W. H.
Morrison, Henry

VIRGINIA.

CHARLOTTEVILLE—Sparks, H. B.
DANVILLE—Electric Co.
Ellwanger, Aug.
MANCHESTER—Dickinson, Frank T.
Richmond El. Co.
NORFOLK—Burkard, W. A. & Co.
Chesapeake Construction Co., 64 Bank
Henry, E. M. & Co., 33 Bank
Hitt & Brown
Meeks, Ernest H.
*Norfolk Electrical Co., 31 Bank
Pargoe, Thos. J., 60 Bank
Smith, Jno. W., 58 City Hall av
Southern Electric Supply Co., Citizens' bank
Standard Electric Supply Co., 85 Commerce
Tri-City El. Co.
Virginia El. Constr. Co.
RICHMOND—Capital El. Co.
Catlett & Taylor, 902 E Main
*Electric Construction Co., of Va., 8 S 9th
Electric Novelty & Appliance Co., 510 E
Main
Godsey & Richardson, 713 E Cary
*Tower-Binford Electric & Mfg. Co.
Whybrew & Co., 1301 E Main
*Winston Elec. Cons. Co., 12 N 7th
STAUNTON—Augusta Elec. Co.
Blackley R. E.

WASHINGTON.

EVERETT—Cook, J. B. El. Co.
*Everett Electrical Cons. Co.
*Groger & Rogers
Lux El. Constr. Co.
SEATTLE—Agutter-Griswold Co., 1406 1st av
Buck, E. A., 210 Columbia
Cascade Gas & Electric Fixture Co.
Electric Construction Co.
Electrical Engineering Co.
Erickson & Wyman Co., 1212 Post st
Folsom, F. H., Colman Dock
General Electric Co., Alaska bldg
Home El. Co., 1527 2d av
Jenkins, G. G., 113 Main
*Kilbourne & Clark Co. (Power & Lighting)
O'Donnell, F. P. & Co.
*Seattle Electric Co.
Spencer, L. D., 1128 15th av
Vande Mark, Philip
Westinghouse Electric & Mfg. Co., 314 Oc-
cidental av
SPOKANE—Campbell, Colin E., 1111 Baldwin
Chase, Wm. E. Engineering Co., 317 Rookery
Citizens' El. Co., S 108 Howard
Doerr, Mitchell & Co.
Inland El. Co., S 110 Monroe
Nixon & Kimmel, 327 Wall
Oliver, Warren
*Washington Water Power Co.
TACOMA—*Bowe-Love Co.
*Electric Engineering & Cons. Co.
*Lauders & Cootes
Sherman, N. G.
Smith, A. Z. & Co.
*Tacoma Electrical Cons. Co.
Taylor, H. B. & Co.
WALLA WALLA—El. Supply & Fixture Co.
Wingard, C. L., 14 N 2d

WEST VIRGINIA.

BLUFFFIELD—Climax Electrical Constr. Co.
Mehane, T. H. & Co.
CHARLESTON—*Michaelson, O. H.
FAIRMOUNT—Gettings, Ch. E.
Mayers, D. L. & Co.
MARTINSBURG—Shade, H. S.
PARKERSBURG—Citizens' El. Co., 626 Juliana
Ferguson Bros.
Newburger, M. & Co.
WHEELING—American El. Co., 1205 Market
Gee El. Constr. Co., 1124 Market

WISCONSIN.

APPLETON—Kurz & Root
Langstadt & Meyer
Peterson, J. A.

ASHLAND—Garland El. & Plumb. Co.
Perrin, C. F.
BELOIT—Flint, Jas. & Co.
Wheeler, W. H. & Co.
FOND DU LAC—Bickel, F. O.
Briggs, L. A. & W. F.
Wallich, H. L.
GRAND RAPIDS—Dougherty, C. M.
Huntington, Geo. M.
GREEN BAY—Joannes, F. E., 312½ Cherry
Langstadt & Mayer
Le Clair Bros.
HARTFORD—Hartford Elec. Co.
HUDSON—*Wangsgard, Christ.
JANESVILLE—Fredendal & Day
Messer, C. H.
LA CROSSE—Benton, Thos. P. & Son
MADISON—Eastman, Fredk. R.
Electrical Supply Co.
Harloff, Paul F.
MANITOWAC—Buerstatte, J. H. C.
MARINETTE—McWayne, Frank
MILWAUKEE—Andree, Herman Electrical Co.,
225 Grand av
Blomkun Electric Co., 150 Reed
Boettger & Wittig, 393 3d
Columbia Construction Co.
Dewey, Robert B., 232 W. Water
Eckhardt & Flossman, 397 3d
Electrical Construction Co., 14 Wells
Fischer, Aloysius J., 356 Clinton
Grassler & Gezelshap
*Keelyn Electrical Co., 135 Sycamore
*Mechanical Appliance Co. (Power, etc.),
708 Hanover
*Meyer, L. A. Co., 450 E. Water
Northern Electrical Mfg. Co., 501 Iron Bldg.
Peterman, Albert, 14 Wells
Pierce, Edwin, 108 Mason
*Rohn, George F., 88 Mason
Schmidt, Albert R., 461 B'way
Smith, Albert, Elec. Contractor, 169 Water
*Wisconsin Electrical Construction Co., 460
B'way
MINERAL POINT—Weil, H. S.
OSHKOSH—Central Construction Co.
RACINE—Electrical Construction Co.
Hietzel, W. H.
REEDSBURG—Clark, Charles A.
SHEBOYGAN—Acker, John L.
Warden, John D. & Co.
WAUSAU—Wausau Plumbing, Heating & Elec-
tric Co.

WYOMING.

BUFFALO—Buffalo Mfg. Co.
CHEYENNE—House, L. P.
Knott, R. B.
Wyoming Electric Co.
LARAMIE—Ott Electric Co.

***Electrical Parts & Fittings
(Stamped)**

WORCESTER PRESSED STEEL CO.,
Worcester, Mass. (See adv. index, end of
book)

Electrical Supplies

(See also Electrical Engineers & Contractors)
(For all other Electrical Specialties see Index
of Contents).

ALABAMA.

BIRMINGHAM—Alabama Supply Co.
Barbour Pl. & Elec. Co.
Monarch Electric Co.
Moore & Handley Hardware Co.
MOBILE—Electrical Engineering & Supply Co.
MONTGOMERY—West Electric Co.
Wing, J. R.

ARIZONA.

PHOENIX—Norris, V. R.
TEMPE—Temp Hardware Co.
TUCSON—Godfrey & Pease

ARKANSAS.

CAMDEN—Camden Hardware & Mill Supply Co.

CALIFORNIA.

ALAMEDA—Alameda Bic. & Elec. Co.
BERKELEY—Berkeley Electrical Supply Co.
Bradshaw & Colby
EUREKA—Jenssen, E. & Co.

FRESNO—Fresno Electric Works
GENERAL ELECTRIC CO. (See
adv. index, end of book)

LOS ANGELES—Bennett, O. T., 226 W. 5th
Brode Electric Co.
Central Electric Co.
Electrical Appliance Co.
Hutchinson, W. G. Co.
Independent Plumbing & Electric Co.
Martin, John & Co.
Pacific Electrical Works
Sloane, Charles F. Co.
Tuft-Palmer Electric Works
Waite, M. P., Electric Co.
Western Electric Co.
Woodill & Hulse Electric Co.

OAKLAND—Century Electric Co.

Coast Electric Co.
Crescent Electric Co.
Oakland Electrical Co.
Pacific Electrical Works
Pierce Hardware Co.
Jurrell, H. N.

Tyler Electric Co.

PALO ALTO—Orr & Roller

PASADENA—Gaylor, Block & Vore

Sweetser, F. C.

REDLANDS—Sprague, G. A. H.

RIVERSIDE—Roach, H. A.

SACRAMENTO—Electrical Supply Co.

Lewis H. A.

Scott, Lyman & Stack

SAN DIEGO—Hartwell, F. S.

Heilborn Electric Co.

Southern Electrical Co.

SAN FRANCISCO—Baker & Son, 37 2d

Brooks-Follis Electric Corporation, 527 Mis-

sion

California Construction Co., Rialto Bldg.

Century Electric Corporation, 28 2d

Coffee, A. J., Co., 330 Market

Cole, John R. Co., 658 Mission

Day, Thomas Co., 719 Mission

Eccles & Smith Co., 91 Fremont

Electrical Supply Co., 60 1st, 375 Natoma

GENERAL ELECTRIC CO., 317

Crossley bldg. (See adv. index, end of

book)

Johns-Manville, H. W. Co., 127 New Mont-

gomery

Martin, John & Co., 83 New Montgomery

Martland Elec. Co., 738 Mission & 423 Pierce

Marwedel, C. W., 58 1st

Mission Electrical Works, 3017 16th

Occidental Electrical Co., 1711 Polk

Schnetzler, Emil J., 118 McAllister

Seller, Paul Electric Works, 408 Market

Western Electric Co., 547 Mission

SANTA ANA—Nickey Hardware Co.

SANTA BARBARA—Loveday, Claude

SANTA CLARA—Dickinson Co., 1157 Franklin

SANTA CRUZ—New Santa Cruz Elec. Construc-

tion Co.

Wiley, Henry Co.

STOCKTON—Belding, H. C.

COLORADO.

DENVER—Denver Novelty Works & Electric Co.,
1518 Lawrence

GENERAL ELECTRIC CO., Kit-

tridge Bldg. (See adv. index, end of hook)

Wilkes, Gilbert Co., McPhee Bldg.

PUEBLO—Ehenbach & Co.

Fowler, C. W. Co.

Stevenson, W. F.

VICTOR—Tompkins Hardware Supply Co.

CONNECTICUT.

BRIDGEPORT—Belrne, J. J.

Bryant Electric Co., 1405 State

Perkins Electric Switch Mfg. Co., 1405 State

HARTFORD—Baker Electric Co.

Francis & Co.

Hartford Electric Supply Co.

Johnston, N. M.

Rice & Baldwin Electric Co.

Vinton, H. F.

NEW HAVEN—Dinnan, J. J.

Underwood, E. B.

NORWICH—Eaton, Chase & Co.

Preston Bros.

WATERBURY—Brady, E. A. D.

New England Electrical Supply Co.

WINSTED—Hunt, C. K.

Richards & Son

DELAWARE.

WILMINGTON—Delaware Electric & Supply Co.

Morris Electric Co.

Sutton, E. C.

DISTRICT OF COLUMBIA.

WASHINGTON—Du Perow, Mortimer, 1422 Pa.

Galloway, John R., 529 10th av, N. W.

Gasch, Richard & Sons, 914 9th, N. W.

National Electrical Supply Co., 1330 N. Y
av., N. W.
Neely Electric Construction & Supply Co.,
Colorado Bldg.
Rushenberger, George, 513 3d, N. E.
Stailley H. S., 146 Thomas, N. W.
Tate, Arthur, 425 4th, N. E.

FLORIDA.

JACKSONVILLE—Atlantic Supply & Electric Co.
Standard Electric Co.

LAKE CITY—Electric Supply & Plumbing Co.

Thompson, S. B.

PENSACOLA—Pearl, Philip R., 17 W. Garden

Pearl, W. E., 13th & 7th av.

TAMPA—Pierce Bros.

GEORGIA.

ATLANTA—El. Constr. & Machine Co., 128

Henrietta

GENERAL ELECTRIC CO., Em-

pire Bldg. (See adv. index, end of hook)

Southern States Electric Co.

Southern Supply & Electric Co.

Standard Electric Co.

AUGUSTA—Electric Supply Co.

BRUNSWICK—Brunswick Electrical Supply Co.

COLUMBUS—Hill Electric Co.

MACON—Putzel, Morris

Southern Electric Supply Co.

SAVANNAH—Abrahams, E. S., Jr.

Brickman, J. O.

Electric Supply Co.

Frierson's, N. Sons

Union Electric Construction Co.

IDAHO.

BOISE—Electric Fixture & Supply Co.

Mickle Electric Co.

ILLINOIS.

ALTON—Davis Bros. Electric Co.

AURORA—Aurora Electrical Supply Co.

BELLEVILLE—Brosius Electric Co.

BLOOMINGTON—Electrical Supply & Construc-

tion Co.

CHICAGO—Acme Electric & Telephone Co., 71

W. Jackson Boulevard

Amber Electric Mfg. Co., 60 W. Monroe

American Electrical Supply Co., 83 5th av.

American Electrical Works, 135 Adams

Appleton Electric Co., 234 Washington

Austin, M. B. & Co. (Mfrs.' Agents), Jack-

son Bldg.

Berg, Max A.

Brandt, G. & Son

Carver, Lyell H. & Co., 744 W. 120th

C. & C. Electric Co., Monadnock Block,

Central Electric Co. (Wholesale Jobbers), 266

5th av.

Chicago Edison Co. (Wholesale Jobbers), 139

Adams

Clark, Edward A.

De Crastos, John

Dearborn Electric Co., 124 W. Jackson Boul.

Duncan & Gardner

Durant Electric Supplies Co., 77 Jackson

Boul.

Edstrom, Alfred, 1474 W. Madison st.

Electrical Appliance Co. (Wholesale Jobbers)

134 W. Jackson Boul.

Electrical Specialty Co., 319 W. Harrison

Electrical Material Co., 155 E. Van Buren

Foot, Oscar L., 182 State

Gallagher, J. M. & Co., 135 Adams

Garton, W. R. Co., 132 W. Jackson Boul.

Geen Electric Novelty & Mfg. Co., 183 Lake

GENERAL ELECTRIC CO., Mon-

adnock Block. (See adv. index, end of book)

Globe Electric Co., 6340 Jackson Park av.

Hagadorn & Hess, 113 22d

Halligan & McDonald, 308 Dearborn

Harter & Co., 146 5th av.

Havill, Wm. H., 78 Dearborn

Hill, N. F., 6658 Wabash av.

Illinois Electric Co. (Wholesale Jobbers), 239

Madison

Johns-Manville, H. W. Co., 171 Randolph

Kimble Electric Co., 72 W. Lake

Larson, M. L., 359 Rush

Luis, Alvin H., 303 Dearborn

Manhattan Electrical Supply Co. (Mfrs. &

Jobbers), 188 5th av.

Metropolitan Electrical Supply Co., 184 E

Minerallac Co., 1061 Monadnock blk

Morgan-Gardner Electric Co., 2642 Shicids

Porter & Berg, 303 Dearborn

Schureman, J. L. Co., 70 W. Jackson houl

Western Electric Co. (Mfrs. & Wholesalers)

259 S. Clinton

Wilkins, Charles, 201 Milwaukee av

EAST ST. LOUIS—Turner, F. G. & Co.

ELGIN—Bell, E. S. Spec. Co.

Skinner, W. S.

EVANSTON—Pihl, A. O.

FLORA—Parton, Wm.

GALESBURG—Nelson, F. J.

Telford, O. S.

JACKSONVILLE—Star Electric Co.

Matthews & Co.

JOLIET—Bronson, L. G.

Rowell & Blackhall

PEORIA—Central Electric Co., 310 Fulton

Mills Electric Co.

Stapp, C. E.

QUINCY—Niswinder & McCoy

Tenk Hardware Co.

ROCKFORD—Schuster & Richardson

ROCK ISLAND—Mutual Electric Co.

SPRINGFIELD—Haas, R. Electric & Mfg. Co.

Roosa & Co.

STAUNTON—Godfrey & George.

URBANA—Gresham, S. D.

Urbana El. Supply Co.

INDIANA.

ANDERSON—Indiana El. Co.

BLOOMINGTON—Whitson, W. P.

ELKHART—Borneman & Sons

Munson, Lewis

INDIANAPOLIS—Carter & Chess, 703 E 19th

Elliott Telegraph & El. Co.

Fuller, V. B.

Royse Electric Co., 125 S Meridian

Varney Electrical Supply Co., 235 S Merid-

ian

KOKOMO—Kokomo El. Lt. & Supply Co.

LAFAYETTE—Howe & Shipley, 330 Main

LAWRENCEBURG—Kidd, H. G.

LOGANSPOUT—Cann, Geo. W. & Co.

MARION—Custer Electric Mfg. Co.

Gillespie, L. W. & Co. (Complete Outfits for

Small Lighting Plants, etc.), 235 S Merid-

Reynolds, H. F., El. Co.

MUNCIE—Love & White

Mach. Electric Supply Co.

Tomlinson, O. M.

Warner, W. F.

SOUTH BEND—Arnold, John W.

Economy Electric Corporation

IOWA.

BURLINGTON—Iowa Electric Co.

Miller, L. J.

Sherrill-Moore Electric Co.

CEDAR RAPIDS—Irvine, Dan W.

DES MOINES—Des Moines Mfg. & Supply Co.

Hess Electric Co.

Western Electric Co.

MUSCATINE—Jackson Electric Supply Co.

SIoux CITY—Electric Supply Co.

Interstate Supply Co.

KANSAS.

COFFEYVILLE—Stevens El. Supply & Constr.

GLASCO—Davidson & Co.

LAWRENCE—Benson, J. A.

Graber Bros.

TOPEKA—Eagle Mercer Electric Co.

Howard, H. B.

WICHITA—United Electric Co.

KENTUCKY.

HENDERSON—Hartman Electrical Co.

LEXINGTON—Frazer & Bush

Shelly & Co.

LOUISVILLE—Clark, James, Jr., & Co. (Job-

bers & Mfrs.), 313 W Main

Louisville Electric Supply Co., 412 2d

Tafel, Herman C., 254 W Jeff.

The Ray Co.

Wood, Harry I., 518 W Main

LOUISIANA.

NEW ORLEANS—Churchill, C. R., 107 Camp

Courad, H. J., 819 Iberville

Falvey-Wilson Co., 409 Camp

GENERAL ELECTRIC CO., Hen-

nen bldg. (See adv. index, end of hook)

Haman & Kendall, 628 Poydras

Hartwell, C. C. Co., Ltd.

Interstate Electric Co., 344 Baronne

New Orleans Electric Co., Ltd., 616 Com-

MARYLAND.

BALTIMORE—Baltimore Electric Supply Co.
Bruen, A. J. & Co., 221 N Calvert
Elinc, J. Frank & Co., 110 E Baltimore
GENERAL ELECTRIC CO., Continental Trust hldg. (See adv. index, end of book)
Goodrich, Ch. E., 1506 W Lafayette av
Haas, Fred., 2138 Frederick ave
Maryland Electrical Supply Co., 328 N Eutaw
Southern Electric Co., 423 N Calvert
Stewart-Crook Hardware Co., 7 N Liberty
Thomas, W. K. Co., 320 Hanover
Tschudi, John H., Lobe bldg

MASSACHUSETTS.

BEVERLY—Hamilton, F. A. E.
Woodbury Electric Co.
BOSTON—Chase-Shawmut Co., 84 State
Electric Goods Mfg. Co., 115 Purchase
Ferrin, Frank M., 45 Arch
Fuller, Seth W. Co., 185 Devonshire
Gleeson, Thos. W., 106 Sudbury
Gould Bros., 1490 Dorchester ave
Grossman, John, 6 Brookford
GENERAL ELECTRIC CO., 84 State. (See adv. index, end of book)
Gleeson, Thomas W., 106 Sudbury
Knowles, Charles S., 7 Arch
McKenney & Waterbury Co., 181 Franklin
Pettingell, Andrews Co. (Wholesale Jobbers), 156 Pearl
Poole, James W., 16 Columbia
Potter, M. S., 24 Commerce
Ramsdel Electric Co., 11 Central
Ridlon, Frank Co. (Trolley Line), 200 Summer
Stuart-Howland Co. (Wholesale Jobbers), 4-5 Wintrop square
Walter, Harry, 26 Exchange pl
Wood, Ch. N. El. Co., 246 E Summer
World El. Specialty Co., 294 Washington
Ziegler Apparatus Co., 200 Summer
BROCKTON—Snow Bros., 16 Centre
Trask, A. I., 53 Main
LOWELL—New England Elec. & Supply Corp.
MANCHESTER—Clark & Mills El. Co.
Dennis, C. H.
MILFORD—Tewksbury & Weir
NATICK—Fiske & Co.
Parlin Hardware Co.
NEW BEDFORD—Whitlow Corporation
NEWBURYPORT—CHASE-SHAWMUT CO.
(See adv. index, end of book)
SPRINGFIELD—Hayes, Chas. E.
Ley, F. T. & Co.
TAUNTON—Attwood-Stocker Co.
WORCESTER—Drabble, A. A., 22 Front

MICHIGAN.

BATTLE CREEK—Central Electric Co.
Hall, G. Morgan
DETROIT—Commercial Supply Co., 104 Wayne
Detroit Electric Co., 56 Shelby
GENERAL ELECTRIC CO., Majestic bldg. (See adv. index, end of book)
Grand El. Co., 795 Woodward av
Hartwig, W. J. Co., 205 Jefferson av
Proctor-Raymond Mfg. Co., 40 Larned E
Schug Electric Mfg. Co., 246 Jefferson av
Teal, Frank C. Co., 75 Bates
GRAND RAPIDS—Wayne El. Co., 117 Wayne
West Side El. Co., 253 15th
National Electric Supply Co., Eagle Hotel
Wheeler, M. B. Electric Co. bldg
SAGINAW—Electric Supply Co.
Fischer, J. G.
Herman Electric Constr. Co.
Johnson, J. H. & Co.
ST. JOSEPH—Collins, P. S.
WEST BAY CITY—Hahn, Joe

MINNESOTA.

DULUTH—Central El. Co., 227 N 56th
General Electric Co., Provident bldg
Northern Electrical Co., 20 3d av
MINNEAPOLIS—Electrical Engineering Co.
(Wholesale & Retail), 21 N 6th
GENERAL ELECTRIC CO., Phoenix bldg. (See adv. index, end of book)
Hammer, Emil, 325 S 5th
Hollis Electric Co., 311 2d av S
Northern Electric Co., 9 S 5th
Silverson, A. M., 24 W Lake
Twin City Electric Works, 629 Hennepin
ST. PAUL—American Electric Co., 235 E 6th
Richardson, G. I., 215 Concord
St. Paul Electric Co., 316 Robert

MISSISSIPPI.

HATTIESBURG—Electrical Supply Co.
MERIDIAN—Electric Supply Co.
OCEAN SPRINGS—Bertolotti, Ed
VICKSBURG—Pegram, J. B.
WEST POINT—West Point Hardware Co.
YAZOO CITY—Crane Hinman Hardware Co.

MISSOURI.

KANSAS CITY—B. R. Electric & Telephone
Mfg. Co., 2250 Main
Kansas City El. & Teleph. Supply Co., 919
Burns, A. J., 4142 McGee Grand av
Moline, J. W., 1527 Grand av
Western Electric Co., 611 Wyandotte
ST. JOSEPH—American Electric & Electric Co.,
2135 Lucas av
ST. LOUIS—Central Telephone & Electric Co.,
Columbia Incandescent Lamp Co., 2115 Locust
Commercial Electrical Supply Co. (Wholesale Jobbers), 1007 Market
Crocker-Wheeler Co., 721 Olive
Doxsee, A. S., Electrical Co., 1110 Pine
Doxsee-Barrere Electric Co., 1110 Pine
Eclipse Electrical Co., 1124 Pine
Electric Mach. & Specialty Co.
Emerson Electric Mfg. Co., 2030 Wash'n av
Ewing-Merkle Electric Co., 1106 Pine
Ford-Oliver El. & Mfg. Co., Compton & Payson

GENERAL ELECTRIC CO., Wainright bldg. (See adv. index, end of book)
Gerleman, Julius F., 204 Franklin av
Globe Electrical Co., 1714 N. B'way
Hanse, James R., 1145 Olive
Huhle, Max, 2725 A Lafayette av
Independent Arm & Pin Co., Hall & Branch
Johns-Manville, H. W. Co., 914 N. B'way
King El. Co., 1303 Wash'n av
Lindsey El. Supply Co., 1007 Locust
Linze El. Supply Co., 1141 Chestnut
McDonald, Wm., 3176 Easton av
Mahler, L. F. Co., Chemical hldg
Modern El. & Eng. Supply Co.
Moll, Arthur, 4433 Easton av
Rumsey & Sikemeier Co., 19th & Pine
Sachs Electric Co., 815 Market
St. Louis Electrical Supply Co. (Wholesale Jobbers), 1108 Pine
Schwartz, Chas. W., 1500 Market
Sutter, Ch. J., 1220 Pine
Watts & Utbopp Supply Co., 310 Market
Wesco Supply Co., 301 S. 7th
Western Electric Co. (of Chicago), 810 Spruce

Western Electrical Supply Co. (Wholesale Jobbers), 1107 Chemical hldg
SPRINGFIELD—Springfield Electrical Supply
WEST PLAINS—Funkhouser & Davis Co.

MONTANA.

BUTTE—Anaconda Copper Mining Co.
Davis, C. A.
Phoenix Electric Co.
HELENA—GENERAL ELECTRIC CO.,
Power blk. (See adv. index, end of book)
Mitchell, A. D.

NEBRASKA.

HASTINGS—Brown, H. S. & Co.
LINCOLN—Howard Bros., 237 S. 11th
OMAHA—Baysdorfer, Otto
Lehmer, Joseph R.
Nebraska El. & Fixture Co.

NEVADA.

VIRGINIA CITY—Crosby Co.

NEW HAMPSHIRE.

CLAREMONT—Rice, C. A.
CONCORD—London, Frederick
MANCHESTER—Farrell Bros.
Manchester Electric Co.
NASHUA—Roy, F. O. & Co.
PORTSMOUTH—Chadwick, G. B. & Co.

NEW JERSEY.

ATLANTIC CITY—Corkran & Co.
Fisher, H. M.
Leigh, P. J.
BAYONNE—Bayonne El. Co., 217 Ave D
CAMDEN—Stewart, Geo. W. & Co., 553 Spruce
EAST ORANGE—Watson, J. H., 606 Main
HOBOKEN—Fredsch, J. E., 702 Washington
JERSEY CITY—Manhattan Electrical Supply
Taylor, George J.
Voshurg, F. A.
MORRISTOWN—Dean, W. W.

NEWARK—Chambers & Ainslee, 2 Commercial
Langsworth, W. C. Wharf
Penn. William H., 117 Elm
Newark El. Supply Co., 45 Clinton
Raynoud, Fred. W., 21 1st
Roe & Conover, 202 Market
Venino, F., 13 Ward
ORANGE—Jackson, Francis E.
PATERSON—Blasberg, J. Jr., 65 B'way
Furon, C. A., 103 B'way
Paterson El. Supply & Fixture Co.
RIDGEWOOD—Harrison, F. A.
TRENTON—Katzenbach & Co., 35 E. State
WEST HOBOKEN—Fischer, Charles A.
WOODBINE—Bayard, M. L.
Danerkirsh, L. M.

NEW YORK.

ALBANY—Ball, H. D., 14 James
Newman, F. M., 47 Maiden Lane
Robinson El. Works, 422 B'way
BUFFALO—Beck El. Co., 113 Clinton
GENERAL ELECTRIC CO., Elcott sq bldg. (See adv. index, end of book)
Green, James S., 306 W. Ferry
McCutcheon, C. H., 18 Ohio
Oliver, A. F., Mfg. Co., 60 Cherry
COHOES—Clute Bros.

NEW YORK CITY.
Borough of Brooklyn.

BROOKLYN—Bklyn. Electrical Supply Co., 26
Kiley, T. W. & Co., 57 Grand Myrtle av
Morrison, John W.
Read, H. P. Lead Works, 32 Sanford
Traction Equipment Co., 72 Grand av
Waterbury Co., 631 Kent av
Wilhelm, Henry, 70 Frost

Boroughs of Manhattan & Bronx

NEW YORK—Abbott Hardware Co., 636 Columbus av
Barnes, Reon, 45 B'way
Berry, A. Hall, 97 Warren
Briggs, E. A., 141 W. 125th
Bull, George S., 27 Manhattan av
Bunnell, J. H. & Co. (Jobbers), 20 Park pl
Burnet Co., 121 Maiden la
Carleton-Chase Electrical Co., 37 Warren
Central El. Supply Co.
Columbia El. Supply Co., 329 4th av
Copeland, H. P., 127 Franklin
Douglas-McQuade, 1 Madison av
Eastern Electrical Supply Co., 42 Vesey
Empire Supply Co., 120 Liberty
Federal El. Co., 141 B'way
Fletcher, P. M. & Co., 32 Frankfort
Frasse Co. (The), 38 Cortlandt
Freeman & Bros., 92 Bowery
Froruys, L. E. & Co. (Imported Carbons & Electrical Appliances)
Fuerst Bros. & Co., 2 Stone
GENERAL ELECTRIC CO., 44 Broad. (See adv. index, end of book)
Gondy-McLean Co., 120 Liberty
Holloway, Bentz & Co., 80 Cortlandt
Latbam, E. B. & Co., 39 Vesey
Leveridge, Chas. W., 183 Greenwich
Lowe Electric Co., 35 Dey
Manhattan Electrical Supply Co. (Mfrs. & Jobbers), 17 Park pl
Marshall, Wm., 709 Lex av
Ostrander, W. R. & Co. (Mfrs. & Jobbers),
Roberts, G. I. & Bro., 471 4th av 22 Dey
Royal Electric Supply Co., 48 W. 27th
Sibley & Pitman (Jobbers), 26 Warren
Standard Electric Supply Co., 37 Warren
Stanley & Patterson (Electric House Goods, etc.), 23 Murray
Storage Battery Supply Co., 239 E. 27th
Western Electric Co. (Mfrs. & Wholesalers), 57 Bethune
Western El. Constr. Co., 42 B'way
(END OF NEW YORK CITY.)

OSWEGO—Shaffer, J. W.
ROCHESTER—Bradley, E. C. & Co.
Laube El. Co.
SCHENECTADY—Burns, James F.
GENERAL ELECTRIC CO. (See adv. index, end of book)
SYRACUSE—Brower & Son, 317 E. Genesee
GENERAL ELECTRIC CO., S. A. & K. bldg. (See adv. index, end of book)
Handlin, Robert D.
Richardson, R. B.
Roberts, H. C. Electric Supply Co., 113 N. Williams, Edw. Q. Warren
TROY—Foy, H. A.
Finch & Hahn
UTICA—Utica Electrical Co., 67 Columbia
WATERTOWN—Bretch & Baltz
Eager El. Co.
Wilson, A. R.
YONKERS—Melott, C. B., 4 Getty sq
Ryer, F. W., 40 Hamilton av

NORTH CAROLINA.

ASHVILLE—Piedmont Electric Co.
CHARLOTTE—Washburn, A. H.
Standard Electric Co.
GREENSBORO—McAdoo, T. J.
WILSON—Mayo Bros.

OHIO.

CAMBRIDGE—Branthoover & Johnson
CANTON—Canton Supply Co., 212 E. 8th
Kuehn Electric Co.
CINCINNATI—Davidson, J. W. & Co., 538 Main
bldg. (See adv. index, end of book)
Lawrence, F. D. Electric Co., 219 W 4th
Lugton, J. W., 405 W. 5th
Mack El. Co.
Marshall Electric Co., 222 W. 4th
Modern Electrical Co.
Post-Glover Electric Co., 316 W. 4th
Standard Electric Co., 113 W. 3d
CLEVELAND—Excelsior El. & Mfg. Co.

GENERAL ELECTRIC CO., Citi-
zens' bldg. (See adv. index, end of book)
McIntosh Hardware Corp'n, 116 Superior
Worthington, Geo. Co., 832 St. Clair av
COLUMBUS—Browne-Ryan El. Co.
Bruce Electric Co., Spring & Front
O'Kane-Hull Co., 197 E Long
Ridgway & Co., Col. Savings & Trust bldg.
White, R. M., 35 W Long
DAYTON—Dodds, Jas. T.
Martin, J. F.
Stark, W. H.

FINDLAY—Bennett, Harry & Co.
FOSTORIA—Hart & Co.
MANSFIELD—Harris, Wm. M.
SANDUSKY—Sandusky Supply & Construction Co.
Lockwood, Wm. A.
SPRINGFIELD—Lessner, Jos. S.
TOLEDO—Bissell, F. Co.
Western Gas & El. Fixture Co.
YOUNGSTOWN—Youngstown Gas & El. Fixture Co.
ZANESVILLE—England, J. C.

OKLAHOMA TERRITORY.

OKLAHOMA CITY—**GENERAL ELEC-**
tric Co. (See adv. index, end of book)
Risdon, N.

OREGON.

PORTLAND—Dayton Hardware Co., 192 1st
Fobes Supply Co.
GENERAL ELECTRIC CO., Wor-
cester bldg. (See adv. index, end of book)
Northwest Electric Engineering Co., 309
Stark

PENNSYLVANIA.

ALLENTOWN—Jacoby, J. H.
Lehigh Electric Co.
Taylor, W. H. & Co.
ALTOONA—Juniata Electrical Mfg. & Supply Co
APOLLO—Kettering, Chas.
BANGOR—Stofflet, T. J.
BEAVER FALLS—Skiff, Chas. W.
BEDFORD—Middleton, P. W. A.
Switchboard Equipment Co.
BETHLEHEM—Switchboard Equipment Co.
CHESTER—Taylor, John, 504 Market
Weidner, Fraley N.
ERIE—Erie Mfg. & Supply Co.
HARRISBURG—Arrowsmith Electric Co.
NORRISTOWN—Reconstructed Granite Co.
PHILADELPHIA—Baseler, Benj. B. & Co.
(Wholesale), 918 Arch

Clark, L. P. & Co., 510 Arch
Cutter Electrical & Mfg. Co., 1728 Spg.
Dichl Mfg. Co., 1217 Filbert Garden
Elliott-Lewis Electrical Co., 1008 Race
Francis & Comas, 115 N. 6th
GENERAL ELECTRIC CO., 218 S
11th. (See adv. index, end of book)
MacKellar, Herbert, 2125 N 63d
Mayer & England (Railway), 1019 Commerce
Phila. Electrical & Mfg. Co., 2011 Market
Phila. El. Equipment Co., Land Title bldg.,
Philadelphia, Pa.
Roberts, H. C., Electrical Supply Co., 905
Arch

Rumsey Electrical Mfrs. Co., 1211 Filbert
Shaw, J. Elliott Co., 632 Arch
Stewart, Frank H. Electrical Co., 35 N 7th
Sweeten-Crossan El. Co., 816 Arch
Vallee, Garret A. & Co., 38 N 6th
Van Roden, Chas. E., 3946 Lancaster av
Walker & Kepler, 531 Chestnut
Walker Electric Co., 2318 Noble
Watts & Stern, 1303 Buttonwood
PITTSBURG—Cook-Wilson Electric Supply Co.,
525 Liberty av
Doubleday-Hill Electric Co., 919 Liberty av
Elect'l Equipment & Supply Co., 336 2d av
Electrical Supply & Constr. Co.

GENERAL ELECTRIC CO., Park
bldg. (See adv. index, end of book)
Iron City Engineering Co., Frick bldg.,
Pittsburg, Pa.

Kettenberg, G. W., 1206 Penn. av
Pennsylvania Electrical & Railroad Supply
Co., Lewis bldg
Richey & Sykes, 5906 Penn av
Robbins Electric Co., 830 Liberty av.
Rossiter, T. Clifford, 1920 Carson
READING—Arrowsmith & Co.
Metropolitan Electric Co.
National Engineering & Electric Co.
SCRANTON—Barnes, Chas. M.
Fries, W. H.
Scott, C. B.
Smith, F. R.
WILKES-BARRE—Pennsylvania Armature Wks.
WILLIAMSPORT—Cortier, Henry L., 202 W 3d
YORK—Britthart, Wm. E., 409 Mkt
Graybill, Jno. E. & Co.
Stuck, O. L.

RHODE ISLAND.

NEWPORT—Dickson, John D.
PROVIDENCE—Belcher & Loomis Hdw. Co.
Cohen, J. B. Hdw. & Supply Co.
Herbert, Geo. W. & Co.
Providence El. Supply Co.
Union Hardware & Electric Supply Co.
Wall, Geo. A.

SOUTH CAROLINA.

CHARLESTON—McMillan, John, 182 King

SOUTH DAKOTA.

BROOKINGS—Getty, Robt. J.

TENNESSEE.

KNOXVILLE—May, G. E., 607 Prince
MEMPHIS—Bailey, J. A. & Co., 336 2d
Electric Supply Co., 298 2d
Walker, W. S. & Co.
NASHVILLE—Coop El. Co.
GENERAL ELECTRIC CO., Cole
bldg. (See adv. index, end of book)
Southern Electrical Co.

TEXAS.

BEAUMONT—Harvey, S. A.
Keith Electric Co.
DALLAS—El. Appliance Co.
GENERAL ELECTRIC CO., Scol-
lard bldg. (See adv. index, end of book)
Hobson El. Co.
Kane, J. D. & Co.
EL PASO—Standard Electric Supply Co.
FORT WORTH—Bound, Geo. Electric Co.
Dickson Electric Co.
Miller El. Co.
Wesco Supply Co.
GALVESTON—Lowe & Tschumy
HOUSTON—Duncan-Hobson El. Co.
Woods El. Co.

UTAH.

OGDEN—El. Supply & Fixture Co.
SALT LAKE CITY—Capital El. Co., 205 S.
State
GENERAL ELECTRIC CO., Dooly
bldg. (See adv. index, end of book)
Thomas El. Supply Co.
Western Electric Co.
Wiser Electric Co.

VERMONT.

BURLINGTON—Lanon, J. E.
Mullen & Foley

VIRGINIA.

LYNCHBURG—Burns, T. J. & Co.
NORFOLK—Buckard, Wm. A. & Co.
Southern El. Supply Co.
Standard Electric Supply Co.
Virginia El. Co.
RICHMOND—Godsey & Richardson El. Co.
Jenks, Wm. H.
McGraw, Jas., 1442 E Main
ROANOKE—Wolfenden, W. E.
STAUNTON—Templeton, Jas. A. & Sons

WASHINGTON.

EVERETT—Everett Electrical Supply Co.
SEATTLE—Forbes Supply Co., 1406 1st av
GENERAL ELECTRIC CO., Alaska
bldg. (See adv. index, end of book)
Wright, M. L.

SPOKANE—Empire El. Co.
Spokane Electric Supply Co.
TACOMA—Baya, F. C.
WALLA WALLA—El Supply & Fixture Co.

WEST VIRGINIA.

CHARLESTON—Agnew Electric Co.
Charleston Electrical Supply Co.
Slusser Bros., Bradford bldg
PARKERSBURG—Citizens' Plumbing & El. Co.
Parkersburg El. Co.
WHEELING—Mountain State Electrical Co.
Sands, H. S., Electric & Mfg. Co.

WISCONSIN.

GREEN BAY—Munger, E. T.
MADISON—Independent Telephone Mfg. Co.
MILWAUKEE—Cutler-Hammer Mfg. Co., 12th
Heller, S. & St. Paul av
Pierce, Edw. F.
RACINE—Hetzler, Wm. H.
Rittman & Brooker.
WAUSAU—Evans, H. J.

Electrodes

International Acheson Graphite Co., Niagara
Falts, N. Y.
National Carbon Co., W Madison & Highland
avs, Lakewood, Cleveland, O., & Washing-
ton, Pa.

Electrogrip (Drop Light)

Yost Electric Mfg. Co. (For Suspended Lights
& Cords), Toledo, O.

Electro Magnets (Special Wind-
ing of)

McDermid Mfg. Co., 118 W Jackson boul, Chi-
cago, Ill.

Electro Plating

American Car & Shlp Hardware Mfg. Co., New
Castle, Pa.
American Plating Co. (all kinds), 181 W. Maple
Columbus, O.
Beverly Engine & Machine Co., Beverly, Mass.
Buckeye Electro Plating Co., Mansfield, O.
CHICAGO ORNAMENTAL IRON CO.,
37th & Stewart av, Chicago, Ill. (See adv.
index, end of book)

Cooke, Jos. S., 20 Jacob, New York
Derby & Morse, Lowell, Mass.
Detroit Shipbuilding Co. (Brass Dept), Detroit,
Mich.
DONOVAN WIRE & IRON CO., To-
ledo, O. (See adv. index, end of book)
Edwardsville Brass Co., Edwardsville, Ill.
Enterprise Brass Works (Frank Holt, Prop),
Muskegon, Mich.
Filley, Harvey, Plating Works, 1011 Spg Gar-
den, Philadelphia, Pa.
Forsyth Mfg. Co., 308 Terrace, Buffalo, N. Y.
Gauger, Jno. L. Co., 22d & Wood, Phila-
Pa.
Greystone Mfg. Co., Greystone, Conn.
Hecla Iron Works, 118 N 11th, Brooklyn, N. Y.
JACKSON, WM. H. COMPANY, 29 E
17th (Union sq.), New York. (See adv. in-
dex, end of book)

Johnson Service Co. (Nickel, Copper, Brass,
Bronze, Silver & Gold), Milwaukee, Wis.
Keystone Plating Co., 2035 N Alder, Phila., Pa.
Ludlow-Saylor Wire Co., 120 S 4th, St. Louis,
Mo.
McDaniel Mfg. & Plating Co., Columbus, O.
McKenna Bros. Brass Co. (Ltd.) (Nickel Silver,
Oxidized, Copper, etc.), Pittsburg, Pa.
McMurray, Robt. T. & Bro., 365 Harmon,
Brooklyn, N. Y.

Megquier & Jones Co., Portland, Me.
Meyer, Louis J., 104 S 8th, Philadelphia, Pa.
Minneapolis Brass & Iron Mfg. Co., 116 1st av,
N. Minneapolis, Minn.
Monumental Plating Works, 106 Hanover, Bal-
timore, Md.
Murdock-Shaw Co. (Bronze, etc.), Boston, Mass.
Muskegon Electro Plating Co., Muskegon, Mich.
National Novelty Corporation, 826 B'way, New
York
Ohio Brass Co., Mansfield, O.
Ohio Plating Works, Columbus, O.
Purcell, N. F., & Co. (also Buffing & Polish-
ing), 232 S Clinton, Chicago, Ill.
Richey, Browne & Donald, Maspeth, Borough of
Queens, New York City.
Roberts-Goss Co., St. Paul, Minn.
Schreiber, L. & Sons Co., 8th & Eggleston av,
Sercomb Co., 195 State, Chicago
Cincinnati, O.
Sharpless & Watts, 15th & Walnut, Phila., Pa.
Southern Electro Plating Works, 80 S Pryor,
Atlanta, Ga.

Standard Plating Works, 446 N 12th, Phila., Pa.
 Stowell Mfg. & Foundry Co., S Milwaukee, Wis.
 Taylor & Boggis Foundry Co., 523 Seneca,
 Tucke & Parker, Lowell, Mass. Cleveland, O.
 Tucker, G. A., 14 Commercial, Rochester, N. Y.
 White-Frauneder Iron Works, Oakland, Cal.
 White Wire Works Co., Rochester, N. Y.
WISCONSIN IRON & WIRE WORKS
 (Bronze), 190 E Water, Milwaukee, Wis.
 (See adv. index, end of book)
WORCESTER PRESSED STEEL CO.
 Worcester, Mass. (See adv. index, end of book)

Electro Plating (Bronze)

Gorham Mfg. Co., 5th av & 36th, New York.
 Works: Providence, R. I.
 Hecla Iron Works, 118 N 11th, Brooklyn, N. Y.
JACKSON, WM. H. COMPANY, 29 E
 17th (Union sq.), New York. (See adv. index, end of book)
 Schreiber, L. & Sons Co., 8th & Eggleston av,
 Cincinnati, O., & 1133 B'way, New York
SMITH, F. P. WIRE & IRON WORKS,
 100 Lake, Chicago, Ill. (See adv. index, end of book)
WINSLOW BROS. CO., Main Office &
 Works, 2515 W Harrison, Chicago, Ill. (See adv. index & branch offices, end of book)

Electro-Pneumatic System of Control

WESTINGHOUSE ELECTRIC & MFG.
 Co., Pittsburg, Pa. (See adv. index & branch offices, end of book)

Electroliers

(See Gas & Electric Fixtures)

Electrolytic Refiners

Baltimore Copper Smelting & Rolling Co.,
 Keyser bldg, Baltimore, Md.

Elevating & Conveying Machinery

(See Machinery, Elevating & Conveying; also
 (Conveyors of Various Kinds))

Elevator Air Cushions

Ellithorpe Safety Air Cushion Co., 31 N B'way,
 New York

*Elevator Annunciators

ELEVATOR SUPPLY & REPAIR CO.,
 76 W Monroe, Chicago, Ill., & 136 Liberty,
 New York. (See adv. below)
 Herzog, Teleseme Co., 51 W. 24th, New York.

ELECTRIC SIGNALS
 FOR
HOTEL PASSENGER ELEVATORS
ELEVATOR SUPPLY & REPAIR CO.
 136 LIBERTY ST. 76 W. MONROE ST.
 NEW YORK CHICAGO

Elevator Cables

(See Wire Rope & Cables)

Elevator Cabs or Cars

American Fence & Forge Co., Dayton, O.
AMOS, CHAS. & CO., 94 W Larned,
 Detroit, Mich. (See adv. index, end of book)
BIGELOW, CHENEY WIRE WORKS,
 Springfield, Mass. (See adv. index, end of book)

BOLLES, J. E. IRON & WIRE
 Works, 4th av and Porter, Detroit, Mich. (See
 adv. index, end of book)

BRADLEY & HUBBARD MFG. CO.,
 Meriden, Conn. (See adv. index, end of book)

BROWN BROS. MFG. CO., 22d &
 Campbell, Chicago, Ill. (See adv. index, end of book)

BUFFALO WIRE WORKS CO., Buffalo,
 N. Y. (See adv. index, end of book)
CHICAGO ORNAMENTAL IRON CO.,
 37th & Stewart av, Chicago, Ill. (See adv. index, end of book)

CINCINNATI MFG. CO., 1243 W 6th,
 Cincinnati, O. (See adv. index, end of book)

Columbus Elevator & Machine Co., Curtis and
 Jefferson avs, Columbus, O.
CITY FORGE & IRON WORKS (An-
 drew Plocher, Prop.), Dayton, O. (See adv. index, end of book)

COLUMBUS WIRE & IRON WORKS
 Co., Columbus, O. (See adv. index, end of book)

DARBY, EDW. & SONS CO., 239 Arch,
 Phila., Pa. (See adv. index, end of book)

DONOVAN WIRE & IRON CO., Toledo,
 O. (See adv. index, end of book)

Dow Wire & Iron Works, Louisville, Ky.
 Dufur & Co., 311 N. Howard, Baltimore, Md.
 Flour City Ornamental Iron Works, 2635 27th
 av, Minneapolis, Minn.

HALSTED, JOSEPH CO., 388 W.
 Randolph, Chicago, Ill. (See adv. index, end of book)

Hecla Iron Works, 118 N 11th, Brooklyn, N. Y.
HENRY-BONNARD BRONZE CO.,
 Sales Office, 5 E 42d, New York. Works:
 Mount Vernou, N. Y. (See adv. index, end of book)

HICKEY, M. H. WIRE & IRON
 Works, 54 Dearborn, Chicago, Ill.
JACKSON, WM. H. COMPANY, 29 E
 17th (Union sq.), New York. (See adv. index, end of book)

KAMMAN, WALTER, Front & Law-
 rence, Cincinnati, O. (See adv. index, end of book)

LANDON, E. R. IRON & WIRE WKS.,
 1st National Bank bldg, Chicago, Ill. (See adv. index, end of book)

Lasar-Letzig Mfg. Co., 1313 N 16th, St. Louis,
 Mo.

Lebel-Andrews Co., 531 W 55th, New York.
 Ludlow-Saylor Co., St. Louis, Mo.

MERRITT & CO., 1024 Ridge av,
 Phila., Pa. (See adv. index, end of book)

Meyers, Fredk. J. Mfg. Co., Hamilton, O.
 Morss & Whyte Co., 75 Cornhill, Boston, Mass.

NATIONAL MFG. CO., Worcester,
 Mass. (See adv. index & branch offices, end of book)

REEDY, H. J. CO. (Inc.), 15 W. 2d,
 Cincinnati, O. (See adv. index, end of book)

Richey, Browne & Donald, Maspeth, Borough of
 Queens, New York City.

SCHREIBER, L. & SONS CO., 8th &
 Eggleston av, Cincinnati, O., & 1133 B'way,
 New York

SMITH, F. P. WIRE & IRON WORKS,
 100 Lake, Chicago, Ill. (See adv. index, end of book)

Standard Co., Railway Exch. bldg, Chicago, Ill.
TAYLOR & DEAN, 205 Market,
 Pittsburg, Pa. (See adv. index, end of book)

TYLER, W. S. CO., 1150 St. Clair,
 Cleveland, O. (See adv. index, end of book)

Van Dorn Iron Works Co., Cleveland, O.
 Vilsack, Martin Co. (Ltd.), 3222 Penn av, Pitts-
 burg, Pa.

West Coast Wire & Iron Works, San Francisco,
 Cal.

White-Frauneder Iron Works, Oakland, Cal.
WINSLOW BROS. COMPANY, Main
 Office & Works, 2515 W Harrison, Chicago,
 Ill. (See adv. index & branch offices, end of book)

WINCONSIN IRON & WIRE WORKS,
 190 E Water, Milwaukee, Wis. (See adv. index, end of book)

WRIGHT WIRE CO. (All Metals &
 Finishers), Worcester, Mass. (See adv. index and branch offices, end of book)

Elevator Car Signals

(See Elevator Signals.)

Elevator Controllers

(See Controllers, Electric Elevators; also Ele-
 vator Safety Controllers.)

Elevator Door Locking Devices

(See Elevator Safety Locks.)

Elevator Door Openers & Closers

(See also Elevator Safety Devices.)

Automatic Elevator Door Co., 182 Ogden av,
 Milwaukee, Wis.
 Burdett-Rowutree Mfg. Co. (Automatic), 85 W
 Jackson boul, Chicago, Ill., & 147 W 26th st,
 New York
ELEVATOR SUPPLY & REPAIR CO.,
 34 Monroe, Chicago, Ill., & 136 Liberty,
 New York. (See adv. in first column)
 Union Elevator & Machine Co. ("Union" Auto-
 matic), 28 Market, Chicago, Ill.

Elevator Doors (Automatic)

(See also Hatch Doors.)

Bardsley Bros., 147 Baxter, New York
 Beckwith Elevator Co., 123 Pearl, Boston, Mass.
BOLLES, J. E. IRON & WIRE WKS.,
 4th av. and Porter, Detroit, Mich. (See adv. index, end of book)
 Central Iron Works, Equitable bldg, Des
 Moines, Ia.

CITY FORGE & IRON WORKS (An-
 drew Plocher, Prop.), Dayton, O. (See adv. index, end of book)

KINNEAR MFG. CO., Columbus, O.
 (See adv. index, end of book)

LANDON, E. R. IRON & WIRE WKS.,
 (The "Meeker"), 1243 Fillmore, Chicago, Ill.
 (See adv. index, end of book)

Queen City Wire Works, 193 Seneca, Buffalo,
 N. Y.

REEDY, H. J. CO. (Inc.), (Stand-
 ard Styles), 15 W. 2d, Cincinnati, O. (See
 adv. index, end of book)

Richmond Safety Gate Co., Richmond, Ind., &
 (Kyrle S. Evans, Agent), 235 B'way, New
 York

Rochester Automatic Elevator Door Co. (Fire
 Proof Safety Fire Doors), 291 Mill, Roches-
 ter, N. Y.

SMITH, F. P. WIRE & IRON WORKS,
 100 Lake, Chicago, Ill. (See adv. index, end of book)

Standard Co. ("Otis" Patent Two-Thirds Open-
 ing), W 15th & Laflin, Chicago, Ill.
 United States Elevator Co., 216 Dock, Phila.,
 Pa.

Variety Mfg. Co. (The Cross Improved Meeker,
 Sacramento & Carroll avs, Chicago, Ill.)

WARNER ELEVATOR MFG. CO.,
 Spring Grove av, Alfred & Valley, Cincin-
 nati, O., & 15 Park Row, New York. (See
 adv. index and branch offices, end of book)

WARSAW ELEVATOR CO., War-
 saw, N. Y., & Erie Co. B'k bldg, Buffalo,
 N. Y. (See adv. index & branch offices, end of book)

Webb, J. R. (Excelsior), 545 W 22d, N. Y.

Elevator Doors (Automatic Fire)

(See also Fire Proof Doors & Shutters)

Automatic Door & Gate Co., Missouri Trust
 bldg, 123 Liberty, New York
 Banner Iron Works, Missouri Trust bldg, St.
 Louis, Mo.

Beckwith Elevator Co., 123 Pearl, Boston,
 Mass.

Blanchard, J. F. Co. ("Richardson's"), Fuller
 bldg, New York, N. Y.

Brodie, Wm. H. Co., 45 Vesey, New York.

CITY FORGE & IRON WORKS (An-
 drew Plocher, Prop.), Dayton, O. (See adv. index, end of book)

Coburn Trolley Track Mfg. Co., Holyoke, Mass.
 Columbus Elevator & Machine Co. (Fusible
 Link), Curtis & Jefferson avs, Columbus, O.

DAHLSTROM METALLIC DOOR CO.,
 Jamestown, N. Y. (See adv. index, end of book)

Dentler Bagger Co., Vicksburg, Mich.
FIRE PROOF DOOR CO., 401 12th av,
 Minneapolis, Minn. (See adv. index and branch
 offices, end of book)

KINNEAR MFG. CO., Columbus, O.
 (See adv. index, end of book)

LANDON, E. R. IRON & WIRE WKS.
 (The "Meeker"), 1st Natl. Bank bldg, Chica-
 go, Ill. (See adv. index, end of book)

National Fireproof Sash & Door Co., 270 Moore,
 Brooklyn, N. Y.
 New York Fire Proof Works, 997 E 113d, N. Y.
RAPP, JNO. W., General Office &
 Works, College Point, New York City. Sales
 Office, 4 Madison av, New York. (See adv.
 index, end of book)



STANDARD OF THE WORLD FOR MORE THAN FIFTY YEARS

FROM the simplest hoist by hand to the most comprehensive elevator equipment, embracing in one instance over 40 elevators in a single building, we are prepared to successfully cope with any elevator problem. Besides ordinary passenger and freight elevators, we manufacture and install dumb waiters, escalators (moving stairways), hoists for mines, docks, warehouses, building operations, blast furnaces, etc. We also build incline railways, gravity conveyors, etc.

The new Singer Building, Broadway and Liberty Street, New York, 42 stories high from the street level was made possible by OTIS ELEVATORS of the Traction Type, the latest development in the solution of modern extreme elevating problems.

CORRESPONDENCE INVITED.

OTIS ELEVATOR COMPANY

New York Office, 17 BATTERY PLACE



OFFICES AND FACTORY
190 EAST WATER STREET
MILWAUKEE, WIS.

Electro Platers in Nickel, Copper,
Brass, Bronze and in fact
any finish desired.

MANUFACTURERS OF
Architectural Iron and Bronze Work

Art Metal Work
Bank Railings
Elevator Enclosures
Elevator Cabs
Balcony Railings
Theatre Railings
Fire Escapes
Stable Fittings
Window Guards
Stairs
Desk Railings
Office Partitions
Bank Wickets
Lawn Furniture
Iron and Wire Fences
Tree Guards
Bank Grilles
Mausoleum Doors
Crematory Urns
Sidewalk Doors
Ore & Coal Screens
Wire Concrete Reinforcement Cloth

CHENEY BIGELOW WIRE WORKS,

MANUFACTURERS OF

Elevator Enclosures and Cabs,

OFFICE RAILINGS, WINDOW GUARDS, ETC.,
FOURDRINIER WIRES AND PAPER MILL MACHINERY,

Established 1842.

Springfield, Mass.

Incorporated 1887.

The **NATIONAL MANUFACTURING CO.**

MANUFACTURERS OF

Elevator Cars & Enclosures

BANK AND OFFICE RAILINGS,
WINDOW GUARDS AND WIRE WORK OF
EVERY DESCRIPTION.

WORCESTER, MASS., U. S. A.

NEW YORK OFFICE,
103 Chambers Street.

BOSTON OFFICE,
72 Equitable Building.



REEDY, H. J. CO. (Inc.), 15 W. 2d,
Cincinnati, O. (See adv. index, end of book)
Riebmnd Safety Gate Co. ("Cross Counter-
balanced Corrugated Iron), Richmond, Ind.,
& (Kyrle S. Evans, Agent) 235 B'way, New
York
Rochester Automatic Elevator Door Co. (Fire-
proof Safety Fire Doors), Rochester, N. Y.
SMITH, F. P. WIRE & IRON WORKS,
100 Lake, Chicago, Ill. (See adv. index,
end of book)
Stowell Mfg. & Foundry Co. ("Wilbern" &
"Underwriters"), S Milwaukee, Wis.
Toops, E. D. (Gravity), Indianapolis, Ind.
Variety Mfg. Co. ("Cross" Folding), Sacramen-
to & Carroll avs, Cbieago, Ill.
Victor Mfg. Co., Newburyport, Mass.
WARSAW ELEVATOR CO., Warsaw,
N. Y., & Erie Co. B'k bldg, Buffalo, N. Y.
(See adv. index & branch offices, end of book)

Elevator Doors (Bronze)

BRADLEY & HUBBARD MFG. CO.,
Meriden, Conn. (See adv. index, end of
book)
BROWN BROS. MFG. CO., 22d &
Campbell av, Chicago, Ill. (See adv. index,
end of book)
Burkhardt, John (Bronze), 606 W 55th, New
York
CABARET, PAUL E., & CO., 342 W.
14th, New York. (See adv. index, end of
book)
CHICAGO ORNAMENTAL IRON CO.,
37th & Stewart av, Cbieago, Ill. (See adv. in-
dex, end of book)
CINCINNATI MFG. CO., Cincinnati,
Ohio. (See adv. index, end of book)
CITY FORGE & IRON WORKS (An-
drew Plocher, Prop.), Dayton, O. (See adv.
index, end of book)
Gorham Mfg. Co., 5th av & 36th, New York
Hecla Iron Works, 118 N. 11th, Brooklyn, N. Y.
HENRY-BONNARD BRONZE CO.,
Sales Office, 5 E 42d, New York. Works:
Mount Vernon, N. Y. (See adv. index, end
of book)
JACKSON, WM. H. COMPANY, 29 E
17th (Union sq), New York. (See adv. in-
dex, end of book)
Richey, Browne & Donald, Maspeth, Borough
of Queens, New York City
SMITH, F. P. WIRE & IRON WORKS,
100 Lake, Chicago, Ill. (See adv. index,
end of book)
SNEAD & CO. IRON WORKS, ft.
Pine, Jersey City, N. J. (See adv. index,
end of book)
Standard Co., W 15th & Laffin, Chicago, Ill.
TYLER, W. S. CO., Cleveland, Ohio
(See adv. index, end of book)

UNION EQUIPMENT AND BRONZE CO.

520 W 36th, N. Y. (See adv. outside stencil)
VULCAN CO., Detroit, Mich. (See
adv. index, end of book)
WINSLOW BROS. COMPANY, Main
Office & Works, 2515 W Harrison av, Chi-
cago, Ill. (See adv. index & branch offices,
end of book)
WISCONSIN IRON & WIRE WORKS,
190 E Water, Milwaukee, Wis. (See adv.
index, end of book)

Elevator Doors (Metal)

(See Elevator Cabs or Cars.)

Elevator Doors (Metal Covered)

Blanchard, J. F. Co. ("Richardson's") Fuller
bldg., New York, N. Y.
DAHLSTROM METALLIC DOOR CO.
Jamestown, N. Y. (See adv. index, end of
book)
FIRE PROOF DOOR CO. ("Richard-
son's"), 401 12th av, Minneapolis, Minn.
(See adv. index & branch offices, end of
book)
RAPP, JNO. W. (Kalamined Iron,
Copper & Bronze), General Office & Wks,
College Point, New York City, & 4 Madi-
son av, New York. (See adv. index, end
of book)

Elevator Enclosures

Aeme Fancy Wire Works, Detroit, Mich.
AJAX IRON & WIRE CO., 75 York,
Brooklyn, N. Y. (See adv. index, end of
book)

Albree, Chester B. Iron Works, Allegheny, Pa
American Fence & Forge Co., Dayton, O.
AMOS, CHAS. & CO., Detroit, Mich.
(See adv. index, end of book)
Art Brass & Wire Works, Forest av & Ellery,
Detroit, Mich.
Atlanta Wire & Iron Works Co., 64 N Broad
Atlanta, Ga.
BAKER MFG. CO., Allegheny & South
avs, Allegheny, Pa. (See adv. index, end of
book)
Balderston, H. & Son, 319 Pearl, Baltimore,
Md.
Barbee Wire & Iron Works., 44 Dearborn, Chi-
cago, Ill., & Lafayette, Ind.
Barnum, E. T. Wire & Iron Works, Detroit,
Mich.
Bataille, Achille & Co., 587 Hudson, New
York
BIGELOW, CHENEY WIRE WORKS,
Springfield, Mass. (See adv. index, end of
book)
BOLLES, J. E. IRON & WIRE WKS.,
4th av & Porter, Detroit, Mich. (See adv.
index, end of book)
Booth, John, Wire & Iron Works, 37 Indiana,
Cbieago, Ill.
BRADLEY & HUBBARD MFG. CO.,
(Brass & Bronze), Meriden, Conn. (See adv.
index, end of book)
BROWN BROS. MFG. CO., 22d &
Campbell av, Chicago, Ill. (See adv. index,
end of book)
Brown-Ketcham Iron Works, Indianapolis, Ind
BUFFALO WIRE WORKS CO., Buf-
falo, N. Y. (See adv. index, end of book)
Burkhardt, John (Bronze), 622 W 55th, New
York
CHAMPION IRON CO., Kenton, O.
(See adv. index, end of book)
Cbesapeake Iron Works, Busb & B & O R R,
Baltimore, Md.
CHICAGO ORNAMENTAL IRON CO.,
37th & Stewart av, Chicago, Ill. (See adv.
index, end of book)
CINCINNATI MFG. CO., 1243 W 6th,
Cincinnati, O. (See adv. index, end of
book)
CITY FORGE & IRON WORKS (An-
drew Plocher (Prop.), Dayton, O. (See adv.
index, end of book)
COLUMBIA IRON & WIRE WORKS
Co., Canton, O. (See adv. index, end of
book)
COLUMBUS WIRE & IRON WORKS
Co., Columbus, O. (See adv. index, end of
book)
Crosman, Geo. J. Co., 607 E 18th, New York
DARBY, EDW. & SONS CO., 239 Arch,
Pbila., Pa. (See adv. index, end of book)
DONOVAN WIRE & IRON CO., To-
ledo, O. (See adv. index, end of book)
Dow Wire & Iron Works, Louisville, Ky.
Durfur & Co., 311 N Howard, Baltimore, Md.
Eagle Iron Works (Inc.), 850 De Kalb av,
Brooklyn, N. Y.
Edelmann, L., 1805 1st av, New York
ESTEY WIRE WORKS CO., 59 Ful-
ton, New York. (See adv. index, end of
book)
Flour City Ornamental Iron Works, 2635 27th
av, Minneapolis, Minn.
FOREST CITY STEEL & IRON CO.,
110th nr Detroit av., Cleveland O. (See adv.
index, end of book)
Gaumer, Jno. L. Co., 22d & Wood, Pbila., Pa.
Glen Mfg. Co., Ellwood City, Pa., & 181 B'way,
New York
Grossman Bros. & Rosenbaum, 540 W 58th, New
York
HALSTED, JOSEPH CO., 388 W RA-
dolpb, Chicago, Ill. (See adv. index, end of
book)
Hecla Iron Works (Brass & Bronze), 108 N
11th, Brooklyn, N. Y.
HENRY-BONNARD BRONZE CO.,
Sales Office, 5 E 42d, New York. Works:
Mount Vernon, N. Y. (See adv. index, end
of book)
Herzog Iron Works, St. Paul, Minn.
HICKEY, M. H., WIRE & IRON
Works, 54 Dearborn, Cbieago, Ill.
Howard & Morse, 45 Fulton, New York
Inglis, Wm. Wire & Iron Works, 59 E Wood-
bridge, Detroit, Mich.
JACKSON, WM. H. COMPANY, 29 E
17th (Union sq.), New York. (See adv. in-
dex, end of book)
KAMMAN, WALTER, Front & Law-
rence, Cincinnati, O. (See adv. index, end
of book)
Kansas City Wire & Iron Works, Kansas City,
Mo.

Kleeman, Trotter & Co., 1327 Main, Kansas
City, Mo.
LANDON, E. R. IRON & WIRE WKS.,
1243 Fillmore, Chicago, Ill. (See adv. in-
dex, end of book)
Lobel-Andrews Co., 531 W 55th, New York
Ludlow-Saylor Wire Co., 4th & Elm, St. Louis,
Mo.
McKinney, Jas. & Son, 927 B'way, Albany,
N. Y.
MERRITT & CO., 1024 Ridge av.,
Phila., Pa. (See adv. index, end of book)
Meyers, Fredk. J. Mfg. Co., Hamilton, O.
Midland Metal Co. (Inc.), 1427 Catherine,
Phila., Pa.
Morss & Whyte Co., 75 Coruhill, Boston, Mass.
Mugler's Iron Works, 1133 E 136th, New York
Murdock-Shaw Co., Boston, Mass.
NATIONAL MFG. CO., Worcester,
Mass. (See adv. index & branch offices, end
of book)
Phoenix Steel Co., Inc., Putnam & P R R, Pitts-
burg, Pa.
Pioneer Iron & Wire Works Co., 1433 Market,
Denver, Colo.
Portland Wire & Iron Works, Portland, Ore.
Prinee Iron Works, 553 W 33d, New York.
REEDY, H. J. CO. (Inc.), 15 W. 2d,
Cincinnati, O. (See adv. index, end of
book)
REMPPIIS, WM. F. CO., Reading,
Pa., & 1506 Sansom, Phila., Pa. (See adv.
index, end of book)
Richey, Browne & Donald, Maspeth, Borough
of Queens, New York City
RIESECK, P., Allegheny av & Re-
becca, Allegheny, Pa. (See adv. index, end
of book)
St. Louis Wire & Iron Co., 518 Chouteau av,
St. Louis, Mo.
Schreiber, L. & Sons Co., 8th & Eggleston av,
Cincinnati, O., & 1133 B'way, New York
SMITH, F. P. WIRE & IRON WORKS,
100 Lake, Chicago, Ill. (See adv. index,
end of book)
SNEAD & CO. IRON WORKS, ft of
Pine, Jersey City, N. J. (See adv. index,
end of book)
Snow Wire Works Co., 76 Exchange, Rochester,
N. Y.
Standard Co., W 15th & Laffin, Chicago, Ill.
Standard Wire & Iron Co., Cleveland, O.
Sterling Bronze Co., 107 W. 25th, New York
Stidman & Co., 16 N Frederick, Baltimore, Md.
Syracuse Wire Works, Syracuse, N. Y.
TAYLOR & DEAN, 205 Market,
Pittsburg, Pa. (See adv. index, end of
book)
Temple Ornamental & Structural Iron Works
Co., Temple, Pa.
Tichener, E. H. & Co., Binghamton, N. Y.
Tilk, Frank, Ornamental Iron Wks., 213 W.
19th, Kansas City, Mo.
Toledo Wire & Iron Wks., Toledo, O.
TYLER, W. S. CO., Cleveland, O., &
11 B'way, New York (See adv. index, end
of book)

UNION EQUIPMENT AND BRONZE CO.

520 W 36th, N. Y. (See adv. outside stencil)
Union Steel Screen Co. (Ltd.) Albion, Mich.
Van Dorn Iron Works Co., 2685 E. 79th, Cleve-
land, O.
Vilsack, Martin Co., 3222 Penn av, Pittsburg,
Pa.
Voss, Fredk., 621 Austin av, Chicago, Ill.
Westervelt, A. B. & W. T., 102 Chambers,
New York
White Bros. Mfg. Co., Denver, Colo.
White-Frauneder Iron Works, Oakland, Cal.
WINSLOW BROS. COMPANY, Main
Office & Works, 2515 W Harrison, Chicago,
Ill. (See adv. index & branch offices, end of
book)
WISCONSIN IRON & WIRE WORKS,
190 E. Water, Milwaukee, Wis. (See adv.
index, end of book)
WRIGHT WIRE CO. (All Metals &
Finishers), Worcester, Mass. (See adv.
index & branch offices, end of book)

Elevator Gates (Automatic)

Anderson, Henry C. (Steel), 80 Pearl, New York
Automatic Door & Gate Co. ("Peelle" Safety),
123 Liberty, New York
Bardley Bros., 149 Baxter, New York
BATAILLE, ACHILLE & CO., 587
Hudson, New York. (See adv. index, end of
book)
Beckwith Elevator Co., 123 Pearl, Boston,
Mass.

Burdett-Rowntree Mfg. Co., 85 W Jackson boul, Chicago, Ill.
 California Artistic Metal & Wire Co., 539 Mission, San Francisco, Cal.
CITY FORGE & IRON WORKS (Andrew Plocher, Prop.), Dayton, O. (See adv. index, end of book)
 Columbus Elevator & Machine Co., Curtis & Jefferson avcs., Columbus, O.
 Craig, W. H. & Co. (and Half Automatic), 415 6th av, S. Minneapolis, Minn.
 Excelsior Elevator Gate Co., 545 W. 22d, New York
 Houser Elevator Co., Syracuse N. Y.
 Indianapolis Elevator Co., Board of Trade bldg, Indianapolis, Ind.
KIECKHEFER, A. ELEVATOR CO., Milwaukee, Wls. (See adv. index, end of book)
 Knickerbocker Elevator Gate Co., 79 Cortlandt, New York
LAGERQUIST, GUST. (& Half Automatic), 516 N 3d, Minneapolis, Minn. (See adv. index, end-of book)
 Marshall Bros., S 21st & Mary, Pittsburg, Pa.
MERRITT & CO., 1024 Ridge av., Phila., Pa. (See adv. index, end of book)
PITT, WM. R. COMPOSITE IRON Works ("Pitt-Bostwick"), 111 5th av, New York. (See adv. index, end of book)
REEDY, H. J. CO. (Inc.) (Full Automatic), 15 W 2d, Cincinnati, O. (See adv. index, end of book)
 Richmond Safety Gate Co. ("Columbia" & "Zeller"), Richmond, Ind., & (Kyrle S. Evans, Agent) 235 B'way, New York
 Schreiber, L. & Sons Co., 8th & Eggleston av, Cincinnati, O.
 Security Elevator Safety Co., 11 B'way, N. Y.
SEDGWICK MACHINE WORKS, Poughkeepsie, N. Y., 128 Liberty, New York (See adv. index, end of book)
SMITH, F. P. WIRE & IRON WORKS, 100 Lake, Chicago, Ill. (See adv. index, end of book)
 Stewart Iron Works ("Bostwick"), Covington, Ky.
STORM MFG. CO., Newark, N. J. (See adv. index, end of book)
TAYLOR & DEAN, 205 Market Pittsburg, Pa. (See adv. index, end of book)
 Toops, E. D., Indianapolis, Ind.
WARNER ELEVATOR MFG. CO., Spring Grove av, Alfred & Valley, Cincinnati, O., & 15 Park Row, New York. (See adv. index & branch offices, end of book)
WARSAW ELEVATOR CO., Warsaw, N. Y., & Erie Co. B'k bldg, Buffalo, N. Y. (See adv. index & branch offices, end of book)
 Webb, James R. ("Excelsior" & "Eureka" Self-Closing & Self-Locking), 414 Bleeker, New York
 Webster & Perks Tool Co. ("The Ideal"), Springfield, O.

Elevator Gates (Folding)

(See Gates, Folding.)

*Elevator Gates & Guards (Folding)

PITT, WM. R. COMPOSITE IRON Works ("Pitt," "Bostwick" & "Composite" Patents), 136 W 24th, New York - (See adv. index, end of book)

UNION EQUIPMENT AND BRONZE CO., 520 W 36th, N. Y. (See adv. outside stencil)

*Elevator Gates & Guards (Pitt, "Bostwick," Novelty & Composite Patents)

PITT, WM. R. COMPOSITE IRON Works, 136 W 24th, New York (See adv. adv. index & branch offices, end of book)

*Elevator Governors

WARNER ELEVATOR MFG. CO., Spring Grove av, Alfred & Valley, Cincinnati, O., & 15 Park Row, New York. (See adv. index & branch offices, end of book)

*Elevator Guides (Cold Compressed Steel)

STANDARD GAUGE STEEL CO., Beaver Falls, Pa. (See adv. index, end of book)

*Elevator Mouldings (Ornamental Steel)

BRAUN, J. G., 322 S Paulina, Chicago, Ill., & 554 W 36th, New York. (See adv. index, end of book)

Elevator Registers

Desper, H. A. Mfg. Co. ("Desper"), Worcester, Mass.

*Elevator Repairers

(See also firms marked thus † under the head of Elevators, Freight & Passenger.)
ELEVATOR SUPPLY & REPAIR CO., 76 W Monroe, Chicago, Ill., & 136 Liberty, New York. (See adv. below)

REPAIR PARTS
 FOR
PASSENGER & FREIGHT ELEVATORS
ELEVATOR SUPPLY & REPAIR CO
 136 LIBERTY ST. 76 W. MONROE ST
 NEW YORK CHICAGO

SEDGWICK MACHINE WORKS (Also Dumb Waiter Repairs), Poughkeepsie, N. Y., & 128 Liberty, New York (See adv. index, end of book)

Elevator Rope

(See Wire Rope & Cables Mfrs.; also Manila & Sisal Rope Mfrs.)

*Elevator Safety Controllers

ANGELL ELEVATOR LOCK CO., 370 Atlantic av, Boston, Mass. (See adv. on following page)

Elevator Safety Devices

(See also the Specific Article Required.)
ANGELL ELEVATOR LOCK CO. (Safety Lock & Controllers), 370 Atlantic av, Boston, Mass. (See adv. on following page)

Burdett-Rowntree Mfg. Co., 85 W Jackson boul, Chicago, Ill., & 117 W 26th st, N. Y.
 Columbus Elevator & Machine Co., Curtis & Jefferson avcs., Columbus, O.
ELEVATOR OPERATING CONTROLLER Co. (Car Cannot be Moved While Gate is Open), 31-33 B'way, New York. (See adv. below)

Elevator Safety & Controller Co., Girard bldg, Phila., Pa.
 Keystone Elevator Inspection & Repair Co., 923 Locust, Phila., Pa.

MARINE ENGINE & MACHINE CO. ("Pratt"), 126 Liberty, New York; Works, Harrison, N. J. (See adv. index end of book)

Pneumatic Elevator Safety Co. ("Hanford"), 156 5th av, New York
REEDY, H. J. CO. (Inc.) (All Approved Designs), 15 W 2d, Cincinnati, O. (See adv. index, end of book)

Security Elevator Safety Co. ("Cruckshank's"), 126 W 18th, N Y
 Standard Elevator Interlock Co., 308 Chestnut, Phila., Pa.

Union Elevator & Machine Co. ("Union" Automatic for Opening & Closing Elevator Gates, Doors, etc.), 144 Ontario, Chicago, Ill.
 Victor Mfg. Co., Newburyport, Mass.

WARNER ELEVATOR MFG. CO., Spring Grove av, Alfred & Valley, Cincinnati, O., & 15 Park Row, New York. (See adv. index & branch offices, end of book)

Elevator Safety Locks

ANGELL ELEVATOR LOCK CO., 370 Atlantic av, Boston, Mass. (See adv. on following page)

Burdett-Rowntree Mfg. Co., 85 W Jackson boul, Chicago, Ill., & 147 W 26th, New York
 Clermand & Co. (Freight) 206 Centre, New York
ELEVATOR OPERATING CONTROLLER Co. ("L. L. L." Patents), 31-33 B'way, New York. (See adv. below)

ELEVATOR SUPPLY & REPAIR CO., 76 W Monroe, Chicago, Ill. (See adv. on this page)

Rochester Automatic Elevator Door Co., 291 Mill, Rochester, N. Y.
 Standard Elevator Interlock Co., 308 Chestnut, Phila., Pa.

Stowell Mfg. & Foundry Co., S Milwaukee, Wis.
WARSAW ELEVATOR CO., Warsaw, N. Y., & Erie County Bank bldg, Buffalo, N. Y. (See adv. index & branch offices, end of book)

Western Brass Mfg. Works (Brass & Bronze), 21st & Rockwell, Chicago, Ill.

Elevator Safety Stops

Hunter, James Machine Co., N Adams, Mass.
 Miller, L. J., 1233 Harrison, Cincinnati, O.
 Pneumatic Elevator Safety Co. ("Hanford"), 156 5th av, New York
 Rochester Automatic Elevator Door Co., 291 Mill, Rochester, N. Y.
 U. S. Elevator Co. (Inc.), 216 Dock, Phila., Pa.

*Elevator Sash Iron

BRAUN, J. G., 322 S Paulina, Chicago, Ill., & 554 W 36th, New York. (See adv. index, end of book)

*Elevator Self Starters (Electric)

CUTLER-HAMMER MFG. CO. ("C. & H."), Milwaukee, Wls. (See adv. index & branch offices, end of book)
PHOENIX ELECTRIC COMPANY, Mansfield, O. (See adv. index, end of book)

*Elevator Siding

(See also Roofing & Siding, Iron & Steel)
BERGER MFG. CO., Canton, O. (See adv. index, end of book)
CANTON ART METAL CO., Canton, O. (See adv. index, end of book)

EDWARDS MFG. CO., Eggleston av, bet. 4th & 5th, Cincinnati, O. (See adv. index & branch offices, end of book)

ELLER MFG. CO., Canton, O. (See adv. index, end of book)

MILWAUKEE CORRUGATING CO., Milwaukee, Wls. (See adv. index, end of book)

SCAIFE, WM. B. & SONS CO., 221 1st av, Pittsburg, Pa. (See adv. index, end of book)

ELEVATOR OPERATING CONTROLLER CO.

(LEWIS SYSTEM)

PROTECT YOUR PATRONS AND YOURSELF.

RISK NO MORE!

Order at once this simple electrical, absolutely automatic device, which prevents elevator operator from either moving his car from landing until he has shut his gate and from leaving the gate open behind him.

EACH GATE INDEPENDENT.

ELEVATOR OPERATING CONTROLLER CO.

2 RECTOR ST., NEW YORK CITY

H. J. REEDY CO.,

CINCINNATI, O.

FOUNDED 1858.

ELEVATORS

STANDARD FOR HALF A CENTURY

HIGH SPEED MACHINES A SPECIALTY

ELECTRIC D. C. AND A. C. BELT AND DIRECT CONNECTED PATENT PLUNGER
ELEVATORS FOR FAST SERVICE IN TALL BUILDINGS

HYDRAULIC, HORIZONTAL AND VERTICAL TYPES

THE REEDY STEAM ELEVATOR SUPERIOR TO ALL OTHERS

Worm and Gear Machines of all Types
Hand Power Elevators

Hoists for all Purposes
Dumb Waiters

The Cohoes Iron Foundry and Machine Co.

COHOES, - N. Y.

MANUFACTURERS OF

Machinery for Sizing Warps

CYLINDER SLASHERS

HOT-AIR SLASHERS.

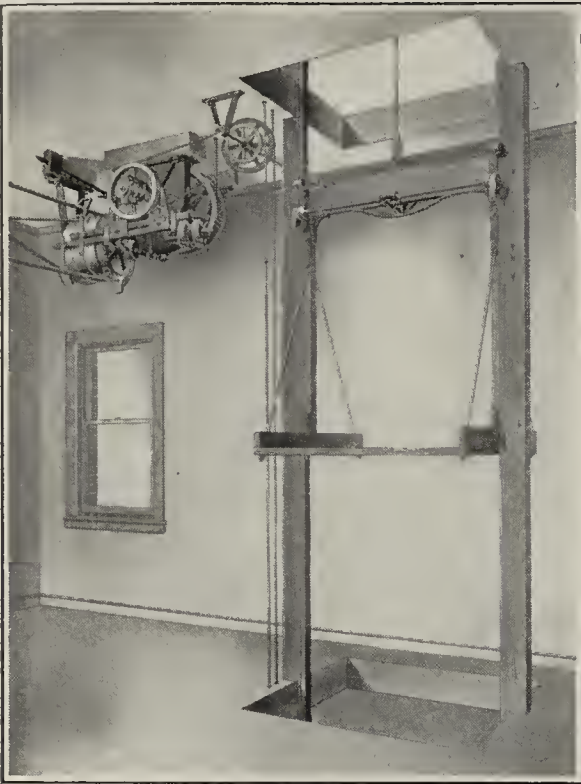
TRAMWAYS, PULLEY BLOCKS,

SIZE TANKS, SIZE PUMPS.

Repairs for Parr, Curtis and Madeley's Mules and Empire Looms

SNOW'S IMPROVED WATER WHEEL GOVERNOR

The MORSE ELEVATOR



FOR MILLS AND FACTORIES

Can be run by gas engine, by electric motor,
or from line shaft.

We sell many of these Elevators, f. o. b.
Philadelphia, with drawings,
from which your own
mechanics can erect.

MORSE, WILLIAMS & CO.

DEPT. OF OTIS ELEVATOR CO.

PHILADELPHIA
BOSTON

NEW YORK
ATLANTA



PASSENGER AND FREIGHT

ELECTRIC

BELT and

HYDRAULIC

HAND POWER

ELEVATORS

WE ARE INDEPENDENT OF THE TRUST

WARSAW ELEVATOR CO.

WARSAW, N. Y., U. S. A.

OFFICES :

BALTIMORE, MD.

CHICAGO, ILL.

BUFFALO, N. Y.

ROCHESTER, N. Y.

Elevator Signals

Bowne Elevator Signal (Slawson-Graham Co.), 246 Greenwich, New York
ELEVATOR SUPPLY & REPAIR CO., 76 W Monroe, Chicago, Ill. (See adv. below)
 Herzog Teleseme Co., 51 W 24th, New York

Elevator Signals (Flash)

Elevator Signal Co., 140 Nassau, New York
 Slawson-Graham Co. ("Bowne"), 246 Greenwich, New York

Elevator Supplies

(See also the specific article)

PACKINGS & SUPPLIES
 FOR
PASSENGER & FREIGHT ELEVATORS
ELEVATOR SUPPLY & REPAIR CO.
 136 LIBERTY ST. 76 W. MONROE ST.
 NEW YORK CHICAGO

Elevator Switches (Belt & Reversing)

CUTLER-HAMMER MFG. CO. ("C. & H."), Milwaukee, Wis. (See adv. index & branch offices, end of book)
 Ideal Electric & Mfg. Co. (Cylinder), Mansfield, O.
PHOENIX ELECTRIC CO., Mansfield, O. (See adv. index, end of book)

Elevators (Automatic Safety)

Columbus Elevator & Machine Co., Curtis & Jefferson aves, Columbus, O.
REEDY, H. J. CO. (Inc.), 15 W 2d, Cincinnati, O. (See adv. index, end of book)
 U. S. Elevator Co., 216 Dock, Phila., Pa.

Elevators (Barrel & Package)

ALVEY-FERGUSON CO., Louisville, Ky. (See adv. index & branch offices, end of book)
BARTLETT, C. O. & SNOW CO., Cleveland, O. (See adv. index, end of book)
 Chain Belt Co. (Curved Arm), Milwaukee, Wis.
 Buhl Malleable Co., Adair & Wight, Detroit, Mich.
DODGE MFG. CO., Mishawaka, Ind. (See adv. index & branch offices, end of book)
 Exeter Machine Works, Pittston, Pa. (book)
JEFFREY MFG. CO., Columbus, O. (See adv. index & branch offices, end of book)
 Link Belt Co. (Automatic Pick Up, etc.), W 39th, cor Stewart av, Chicago, Ill., & 299 B'way, New York
 Mathews Gravity Carrier Co. (Gravity Freight Carriers & Conveyors & Portable Elevators), St. Paul, Minn.
 Mey Chain Belting Engineering Works (Pack-age), 34 Washington, Buffalo, N. Y.
 Oram, Jno. S., Cleveland, O.
REEDY, H. J. CO. (Inc.), 15 W. 2d, Cincinnati, O. (See adv. index, end of book)

Strait, H. N. Mfg Co. (For Barrel or Cooper-age), Kansas City, Mo.

Teal, Chas. A., 1361 Ridge av, Phila., Pa.
WARSAW ELEVATOR CO., War-saw, N. Y., & Erie County Bank bldg, Buf-falo, N. Y. (See adv. index & branch of-fices, end of book)
 Webster Mfg. Co., 1075 W 15th, Chicago, Ill.

Elevators (Bucket)

DODGE MFG. CO., Mishawaka, Ind. (See adv. index & branch offices, end of book)
 Giford Bros., Hudson, N. Y.
ROBINS CONVEYING BELT CO., 19 Park row, New York. (See adv. index, end of book)
 Tamaqua Mfg. Co., Tamaqua, Pa. (of book)
 Taylor Iron & Steel Co., High Bridge, N. J.

Elevators (Carriage)

American Machine Co., Louisville, Ky.
BRODESSER ELEVATOR MFG. CO., Milwaukee, Wis. (See adv. index, end of book)
COHOES IRON FOUNDRY & MA-chine Co., Cohoes, N. Y. (See adv. index, end of book)
 Columbus Elevator & Machine Co., Curtis & Jefferson avs, Columbus, Ohio
 Craig, W. H. & Co., 415 6th av S, Minneapolis, Minn.
 Haughton Elevator & Machine Co., Toledo, O.
 Kaestner & Co. (Inc.), 241 S Jefferson, Chicago, Ill.
KIECKHEFER, A. ELEVATOR CO., 1026 St. Paul av, Milwaukee, Wis. (See adv. index, end of book)
LAGERQUIST, GUS, 516 N 3d, Min-neapolis, Minn. (See adv. index, end of book)
 Mason, Volney W. & Co., Providence, R. I.
 Miller, Wm. A. Elevator Mfg. Co., 117 Pine, St. Louis, Mo.
 Moline Elevator Co., Moline, Ill.
 Murtaugh, Jas. Co. (Standard), 202 E 42d, New York
MORSE, WILLIAMS & CO. (Dept of Otis Elevator Co.), 32 S. Broad, Philadel-phia, Pa. (See adv. index & branch offices, end of book)
REEDY, H. J. CO. (Inc.), 15 W 2d, Cincinnati, O. (See adv. index, end of book)
REEDY, J. W. ELEVATOR MFG. Co., 91 Illinois, Chicago, Ill. (See adv. on following page)
 Safety Electric Elevator Co., 136 Liberty, New York
SALEM ELEVATOR WORKS, Salem, Mass. (See adv. index, end of book)
SEDGWICK MACHINE WORKS, Poughkeepsie, N. Y., & 128 Liberty, New York. (See adv. index, end of book)
STORM MFG. CO., Newark, N. J., (See adv. index, end of book)
 Union Elevator & Machine Co., 144 Ontario, Chicago, Ill.
WARNER ELEVATOR MFG. CO., Spring Grove av, Alfred & Valley, Cincin-nati, O., & 15 Park Row, New York. (See adv. index & branch offices, end of book)
WARSAW ELEVATOR CO., War-saw, N. Y., & Erie County Bank bldg, Buf-falo, N. Y. (See adv. index & branch of-fices, end of book)

Elevators (Coal)

(See Conveyors, Coal & Ashes.)

Elevators (Combination, Hand & Belt Power)

American Machine Co., Louisville, Ky.
 Columbus Elevator & Machine Co., Curtis & Jefferson avs, Columbus, O.
 Edmonds Elevator Co., 146 Champlain, Cleve-Grote Mfg. Co., Evansville, Ind. land, O.
 Haughton Elevator & Machine Co., Toledo, O.
MORSE, WILLIAMS & CO. (Dept of Otis Elevator Co.), 32 S. Broad, Philadel-phia, Pa. (See adv. index, & branch offices, end of book)
REEDY, H. J. CO. (Inc.), 15 W 2d, Cincinnati, O. (See adv. index, end of book)
SEDGWICK MACHINE WORKS, Poughkeepsie, N. Y., & 128 Liberty, New York. (See adv. index & branch offices, end of book)
SPEIDEL, JNO. G., Buttonwood & Gordon, Reading, Pa. (See adv. index, end of book)
STORM MFG. CO., Newark, N. J. (See adv. index, end of book)
WARSAW ELEVATOR CO., War-saw, N. Y., & Erie Co. B'k bldg, Buffalo, N. Y. (See adv. index & branch offices, end of book)

Elevators (Concrete Mixer)

Briggs, J. E. Labor Saving Specialty Co. ("Lightning"), Waterloo, Iowa

Elevators (Cotton)

(See Elevators, Cotton, under Textile Machin-ery)

*Elevators (Double Platform)

BYERS, JNO. F. MACHINE CO. (With Wood Guides for Brick, Mortar, etc.), Ra-venna, O. (See adv. index, end of book)

Elevators (Electric)

(See also Elevators, Freight & Passenger)
 American Machine Co., Louisville, Ky.
 Baltimore Machine Works, Bush & Wicomico, Baltimore, Md.
 Bates, James Sons, Pratt & President, Balti-more, Md.
BRODESSER ELEVATOR MFG. CO., Milwaukee, Wis. (See adv. index, end of book)
 California Electrical Works, 642 Folsom, San Francisco, Cal.
COHOES IRON FOUNDRY & MA-chine Co., Cohoes, N. Y. (See adv. index, end of book)
 Columbus Elevator & Machine Co., Columbus, O.
 Curran, Jas. H. Elevator Co., 114 W 2d, Cin-cinnati, O.
 Darrin, D. H. Co., 131 Liberty, New York
 Ellicott Machine Co., Severn & Bush, Balti-more, Md.
 Grote Mfg. Co., Evansville, Ind.
 Hammond, Jno. & Co., 18th & Indiana, San Francisco, Cal.
 Haughton Elevator & Machine Co., 124 S Hnron, Toledo, O.
 Houser Elevator Co., 314 E Water, Syracuse, N. Y.
 Kaestner & Co. (Inc.) (Alternating Current, Passenger & Freight) 241 S Jefferson, Chi-cago, Ill.
KIECKHEFER, A. ELEVATOR CO., Milwaukee, Wis. See adv. index, end of book)
 Kimball Bros. Co., Council Bluffs, Ia.
LAGERQUIST, GUST. (Direct & Belt-ed), 516 N 3d, Minneapolis, Minn. (See adv. index, end of book)

1889-1903.



ANGELL ELEVATOR SAFETY LOCKS.

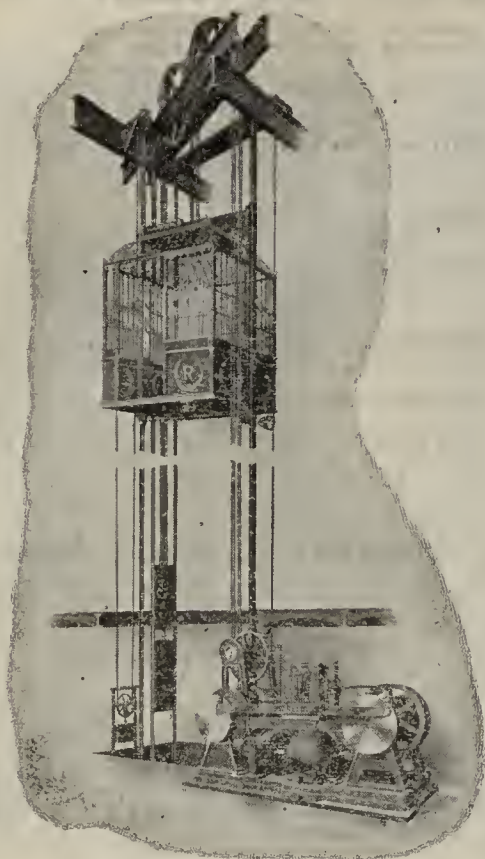
OVER 10,000 LOCKS IN USE.

For ALL KINDS and MAKES OF ELEVATORS, OPEN WELL, FOLDING and SLIDING HATCHES, PASSENGER and FREIGHT, Belt, Steam, Electric, Hydraulic Power.

Angell Elevator Lock Co., 370 Atlantic Ave., Boston, Mass.

ESTABLISHED 1864

J. W. REEDY ELEVATOR MANUFACTURING CO.



20TH CENTURY

BUILDERS OF HIGH GRADE MACHINES
FOR PASSENGER AND FREIGHT SERVICE

SOLE MANUFACTURERS OF THE

"20th Century" Type

ANY SPEED

ANY CAPACITY

WRITE FOR DESCRIPTION

83-91 Illinois Street

CHICAGO

MARINE ENGINE & MACHINE CO.
(Automatic), Main Office, 126 Liberty, New York. Works, Harrison, N. J. (See adv. index, end of book)

Marshall Bros., S 21st & Mary, Pittsburg, Pa.
Miller, Wm. A. Elevator Mfg. Co., 9th & Victor, St. Louis, Mo.

Moline Elevator Co., Moline, Ill.
Moore & Wynman Elevator & Machine Works, Granite & Richards, Boston, Mass.

MORSE, WILLIAMS & CO. (Dep't of Otis Elevator Co.), 32 S. Broad, Philadelphia, Pa. (See adv. index & branch offices, end of book)

National Elevator Co., 400 W 23d, New York
National Elevator & Machine Co., Honesdale, Pa.

NORTHERN ENGINEERING WORKS. (Freight), 9 Chene, Detroit, Mich. (See adv. index, end of book)

OTIS ELEVATOR CO., 17 Battery pl., New York. (See adv. index & branch offices, end of book)

REEDY, H. J. CO. (Inc.) (Alternating & Direct Current Machines), 15 W 2d, Cincinnati, O. (See adv. index, end of book)

REEDY, J. W. ELEVATOR MFG. Co., 91 Illinois, Chicago, Ill. (See adv. above)

Roberts, James H., 430 W. B'way, N. Y.
SALEM ELEVATOR WORKS, Salem, Mass. (See adv. index, end of book)

See, A. B., Electric Elevator Co., 220 B'way, New York

SPEIDEL, JOHN G., Buttonwood & Gordon, Reading, Pa. (See adv. index, end of book)

SPRINGFIELD ELEVATOR & PUMP Co., Springfield, Mass. (See adv. on following page)

WARNER ELEVATOR MFG. CO., Spring Grove av, Alfred & Valley, Cincinnati, O., & 15 Park Row, New York. (See adv. index, end of book)

WARSAW ELEVATOR CO., Warsaw, N. Y., & Erie Co. Bank bldg, Buffalo, N. Y. (See adv. index & branch offices, end of book)

Whittier Machine Co., Exchange bldg, Boston, Mass.

Elevators (Electric Sidewalk)

Columbus Elevator & Machine Co., Columbus, O.
Curran, Jas. H. Elevator Co., Cincinnati, O.

Haughton Elevator & Machine Co., Toledo, O.
OTIS ELEVATOR CO., 17 Battery pl., New York. (See adv. index & branch offices, end of book)

REEDY, H. J. CO. (Inc.), 15 W. 2d, Cincinnati, O. (See adv. index, end of book)

Safety Electric Elevator Co., 136 Liberty, New York

STORM MFG. CO., Newark, N. J. (See adv. index, end of book)

WARSAW ELEVATOR CO., Warsaw, N. Y., & Erie Co. B'k bldg, Buffalo, N. Y. (See adv. index & branch offices, end of book)

Elevators (Farm, Portable)

Wenzelmann Mfg. Co. (Elevators & Wagon Dumps for handling grain), Galesburg, Ill.

*Elevators for Crushing Plants

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

Elevators (Foundry)

Columbus Elevator & Machine Co., Curtis & Jefferson avs., Columbus, O.

Haughton Elevator & Machine Co., Toledo, O.
NORTHERN ENGINEERING WORKS, Detroit, Mich. (See adv. index, end of book)

REEDY, H. J. CO. (Inc.), 13 W 2d, Cincinnati, O. (See adv. index, end of book)

WHITING FOUNDRY EQUIPMENT Co., Harvey, Ill. (See adv. index & branch offices, end of book)

WARSAW ELEVATOR CO., Warsaw, N. Y., & Erie Co. Bank bldg, Buffalo, N. Y. (See adv. index & branch offices, end of book)

Elevators (Freight & Passenger)

Note—Firms designated thus † do general repair work only.

*Indicates Passenger Elevators.

(Under this heading see sub-classifications.)

ALABAMA.

BIRMINGHAM—WARNER ELEVATOR Mfg. Co. (Electric, Hydraulic & Hand & Belt Power, Passenger & Freight) (See adv. index, end of book)

CALIFORNIA.

LOS ANGELES—Baker Iron Works, 946 Buena Vista

Fulton Engine Wks., N Main & Alhambra av

†Machinery & Electrical Co., 351 N Main

***OTIS ELEVATOR CO., H. W.** Hellman bldg. (See adv. index, end of book)

†Thye, M. P. & Co., 241 E Second

Union Iron Works, 406 E 1st

SAN FRANCISCO—Bryan Elevator Co., 252 Spear

†Calif. Car & Elevator Wks., 7th & King

†Enterprise Electric Works, 120 Sth

*Hammond, J. & Co., 7th & King

Holman, Wm. L. & Co., 18th & Indiana

***OTIS ELEVATOR CO., Stockton** & N. Point. (See adv. index, end of book)

Van Emmon Engineering Co., 52 Natoma

COLORADO.

DENVER—Nock & Garside, 1844 Wazee

***OTIS ELEVATOR CO., Opera** House Bldg. (See adv. index, end of book)

CONNECTICUT.

HARTFORD—†Rice & Baldwin Electric Co.

NEW HAVEN—Eastern Machinery Co., 144 Ashman

MacKenzie, George M., Water & East

ANNOUNCEMENT

WE ARE NOT IN THE ELEVATOR TRUST!

All statements to the contrary being false and malicious.

WE ARE IN THE ELEVATOR BUSINESS TO STAY.

FREE AND INDEPENDENT AND WITH ONLY ONE NAME

MARINE ENGINE AND MACHINE COMPANY

E. C. BENEDICT, President
A. S. BEVES, Treasurer

F. S. HASTINGS, Vice-President
J. B. M. SHOWELL, Secretary

ALL TYPES

ELEVATORS

PASSENGER FREIGHT SIDEWALK

ELECTRIC-HYDRAULIC

**AUTOMATIC RESIDENCE ELEVATORS, FAST DUMB WAITERS,
PLUNGERS, HORIZONTAL CYLINDER, VERTICAL CYLINDER.**

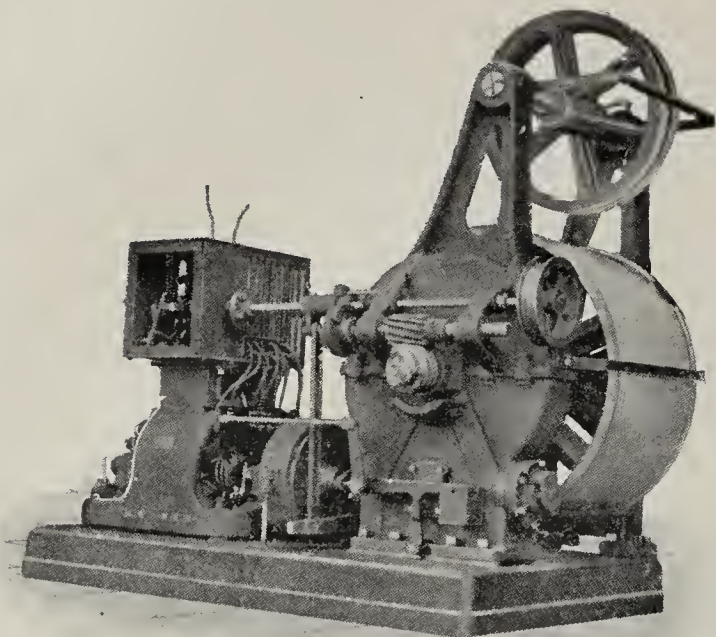
MAKERS OF
BUFFALO REFRIGERATING MACHINES
GROSHON HIGH DUTY PUMPS

HIGH GRADE CASTINGS, 100 lbs. to 40,000 lbs.

KEROSENE OIL ENGINES, 2½ to 250 H. P.

126 Liberty St., NEW YORK.

Works, HARRISON, N. J.



ELECTRIC ELEVATORS

MADE BY THE HUNDREDS

Which cannot be excelled for Economy,
Safety, Easy Running and Durability.

Warner High-Grade PASSENGER AND FREIGHT ==ELEVATORS==

THE WARNER ELEVATOR MFG. CO.

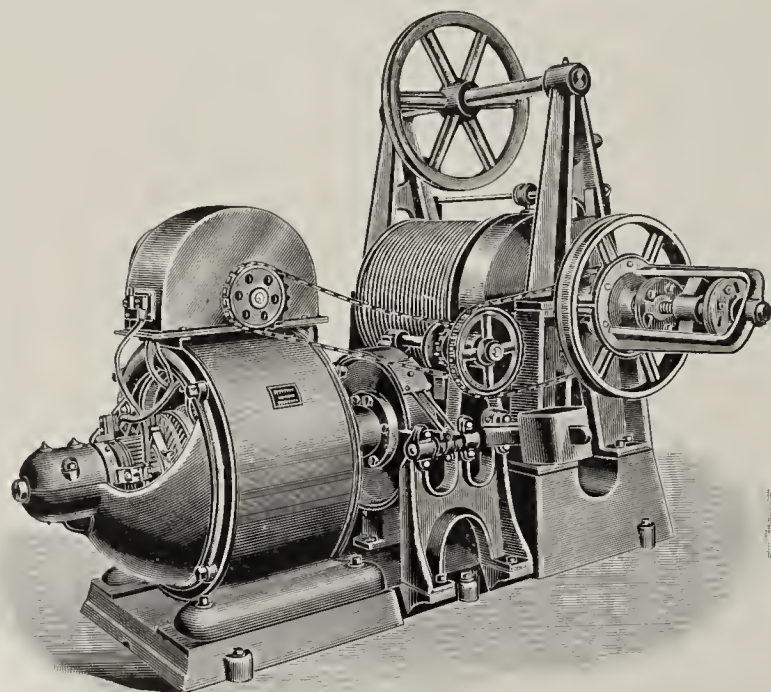
NEW YORK:
2332 Park Row Building

CINCINNATI, O.

BIRMINGHAM:
227 Woodard Building

SALEM ELEVATOR WORKS

SALEM, MASS.



DIRECT CONNECTED ELECTRIC MACHINE

ELECTRIC and BELT POWER

ELEVATORS

PASSENGER AND FREIGHT

We contract for Elevators
in complete running order,
or sell f. o. b. Salem, with
blue prints from which your
own mechanics can erect.

DELAWARE.

WILMINGTON—Green Elevator Co.

DISTRICT OF COLUMBIA.

WASHINGTON—Forsberg & Murray, 526 13th, N W

*OTIS ELEVATOR CO., Corcoran Bldg. (See adv. index, end of book)

GEORGIA.

ATLANTA—*MORSE, WILLIAMS & Co. (Dept. of Otis Elevator Co.), 58 S Broad. (See adv. index, end of book)

*OTIS ELEVATOR CO. (Hydraulic, Electric, etc.). Empire bldg. (See adv. index, end of book)

SAVANNAH—†Davis-Forrest Machine Works, 307 Bay, W

ILLINOIS.

CHICAGO—BRODESSER ELEVATOR Mfg. Co., 238 LaSalle. (See adv. index, end of book)

Coen, W. H., Lakeside bldg Economy Engineering Co., 58 Jefferson

†ELEVATOR SUPPLY & REPAIR Co. (Signalling Apparatus, etc.), 34 W Monroe. (See adv. index, end of book)

†Gallagher & Speck, 295 5th av

*Kaestner & Co. (Inc.) (Steam & Hydraulic), 241 S Jefferson

†Mitchell, C. H. Elevator Co., 91 W Quincy

*OTIS ELEVATOR CO., 159 LaSalle. (See adv. index, end of book)

*REEDY, J. W. ELEVATOR MFG. Co., 91 Illinois. (See adv. at top of preceding page)

†Reliance Elevator Co., 326 Dearborn

*Union Elevator & Machine Co., 28 Market

*WARSAW ELEVATOR CO., 40 Dearborn. (See adv. index, end of book)

†Wright Mfg. Co., 1428 Marquette

MOLINE—*Moline Elevator Co. (Power & Hand)

QUINCY—Hollister-Whitney Co.

INDIANA.

EVANSVILLE—*Grote Mfg. Co. Mesker, Geo. L. & Co. (Power)

INDIANAPOLIS—†Carman & Fryer, 334 E Market

†Commercial-Electric Co., 21st & Northwestern av

Parkhurst Mfg. Co. (Freight, Belt & Electric Power), 222 Kentucky av

†Reedy, D. V. & Co., 208 S Penn

IOWA.

COUNCIL BLUFFS—Kimball Bros. Co.

DES MOINES—†Globe Machinery & Supply Co. Iowa Machinery & Supply Co.

LE MARS—Pech, Gustave Foundry & Mfg. Co.

KENTUCKY.

LOUISVILLE—*American Machine Co. (Electric, Hydraulic, Belt & Hand), 524 E Main

Daeuble Mill Machine Co., 725 E Main

Grainger & Co., 141 10th

*OTIS ELEVATOR CO. (See adv. index, end of book)

LOUISIANA.

NEW ORLEANS—†American Elevator & Electric Co., 520 Camp

†Brelefeldt & Burke Electrical Works, 300 Chartres

†Commercial Electric Co., 710 Union

†O'Brien, Peter, 327 Carondelet

*OTIS ELEVATOR CO. (Hydraulic, Electric, etc.), Godechaux bldg. (See adv. index, end of book)

MAINE.

PORTLAND—Portland Co. (Plunger)

MARYLAND.

BALTIMORE—Adt, Jno. B. (Steam), 332 N Holliday

*Bates, James Sons (Hand, Hydraulic, Steam, Electric, etc.), Pratt & President

*Faunt Le Roy & Co. (Hydraulic, Electric & Belt), 8th & Pratt

†Ellicott Machine Co., Severn & Brush

*MORSE, WILLIAMS & CO. (Dept. of Otis Elevator Co., 148 W West (See adv. index, end of book)

*OTIS ELEVATOR CO. (Electric, Hydraulic, etc.), Continental bldg. (See adv. index, end of book)

*See, A. B. Electric Elevator Co. (Electric), 210 E German

WARSAW ELEVATOR CO., Main Office & Works, Warsaw, N. Y. (See adv. index, end of book)

Zies, Charles, 316 S Fremont

MASSACHUSETTS.

BOSTON—†Automatic Elevator Co., 19 Pearl

Beckwith Elevator Co., 123 Pearl

Brewer, Elias & Co., 52 Sudbury

†Currie, J. H. & Co., 100 Utica

Holmes & Blanchard Co., 33 Wash, N

Horne, C. E., 33 Kemble

Lloyd Elevator Co., 129 Pearl

Kimball, C. E. & Son, 151 Pearl

†MacClary, D. B., 19 Pearl

McLauthlin, Geo. T. Co., 120 Fulton

*Moore & Wyman Elevator & Machine Works, Granite & Richards

†Morrison, Angus, 18 Harvard pl

*MORSE, WILLIAMS & CO. (Dept. of Otis Elevator Co.), 19 Pearl. (See adv. index, end of book)

†Payne, F. S., 295 Franklin

*Plunger Elevator Co., 202 Devonshire

†Porter, W. H., 15 Hartford

*Portland Co. (Hydraulic), 141 Milk

*See, A. B. Electric Elevator Co., 262 Washington

Seelye Mfg. Co. (Freight), 118 South

STANDARD PLUNGER ELEVATOR Co., Board of Trade bldg. (See adv. index, end of book)

†Tubman & Arnold, 141 Milk

*Whittier Machine Co., 53 State

FLORENCE—Norwood Engineering Co.

LYNN—Embree, Wm. F. & Co., 435 Union

SALEM—*SALEM ELEVATOR WORKS (Electric). (See adv. index, end of book)

SPRINGFIELD—SPRINGFIELD Elevator & Pump Co., 111 Liberty. (See adv. below)

Springfield Iron Works, 108 Taylor

WORCESTER—Allen, D. P., Builders' Ex.

*Plunger Elevator Co., Barbers'

STANDARD PLUNGER ELEVATOR Co. (See adv. index, end of book)

MICHIGAN.

DETROIT—†Fox, Wm. Co., 893 Wabash av

NORTHERN ENGINEERING WKS, Chene & Atwater. (See adv. index, end of book)

*OTIS ELEVATOR CO. (Hydraulic, Electric, etc.), Hammond bldg. (See adv. index, end of book)

MINNESOTA.

MINNEAPOLIS—Craig, W. H. & Co., 415 6th av, S.

*LAGERQUIST, GUST., 21 1st av, N. (See adv. bottom of page)

*OTIS ELEVATOR CO. (Hydraulic, Electric, etc.), Guaranty bldg. (See adv. index, end of book)

ST. PAUL—*Franklin Machine Works, 2208 W University av

*Lee & Hoff Mfg. Co., 81 E Fillmore av

*OTIS ELEVATOR CO. (Hydraulic, Electric, etc.), Gilfillan blk. (See adv. index, end of book)

MISSOURI.

KANSAS CITY—Kansas City Elevator Mfg. Co., 115 W 19th

*OTIS ELEVATOR CO. (Hydraulic, Bryant bldg. (See adv. index, end of book)

ST. LOUIS—Abadie, E. H. & Co., Nat. B'k of Com. bldg

Ellison, Wm. & Sons Mfg. Co., 1018 N 6th

Gerahty Bros., 922 Locust

*Miller, Wm. A. Elevator Mfg. Co., 117 Pine

*OTIS ELEVATOR CO. (Hydraulic, Electric, etc.), Security, bldg. (See adv. index, end of book)

†Smith, Charles H., 415 N 7th

NEW JERSEY.

HARRISON—*MARINE ENGINE & MACHINE Co. (Electric, Hydraulic & Plunger)

Sales Office, 126 Liberty, New York. (See adv. index, end of book)

ELEVATORS**HYDRAULIC,
ELECTRIC AND
BELT POWER****PASSENGER and FREIGHT****Highest Class of Workmanship****Highest Class of References****ESTIMATE UPON ALL KINDS OF ELEVATOR EQUIPMENT****SPRINGFIELD ELEVATOR AND PUMP CO., SPRINGFIELD, MASS.****GUST LAGERQUIST, Manufacturer of Direct and Belted Electric Elevators**
Passenger, Freight, Power and Hand Power. Automatic and Half Automatic Gates and Dumb Waiters.
ELECTRIC MOTORS AND REPAIRING. 516-518 North Third Street, MINNEAPOLIS, MINN.

NEWARK—Skinner & Leary, 13 Railroad pl
STORM MFG. CO. (Hand & Belt
 Power etc.) (See adv. index, end of book)
 Webber, Geo. A., Poinier c Penn av
 Wright, Lysander, Jr., 9 Alling

NEW YORK.

BUFFALO—†Buffalo Engineering Co., Erie Co.
 Bank bldg
***OTIS ELEVATOR CO. (Hydraulic,**
 Electric, etc.), Lewis blk. (See adv. in-
 dex, end of book)
 †Queen City Engineering Co., 49 Illinois
***WARSAW ELEVATOR CO., Erie**
 Co. B'k bldg. (See adv. index, end of
 book)
 COHOES—COHOES IRON FOUNDRY &
 Machine Co. (Freight) (See adv. index,
 end of book)

NEW YORK CITY. Borough of Brooklyn.

BROOKLYN—Rodgers, R. M. & Co., 133 Hall.

Boroughs of Manhattan & Bronx

NEW YORK—†Aetna Elevator Co., 150 B'way
 †American Elevator Co., 113 Cedar
BETHLEHEM FOUNDRY & MA-
 chine Co. (Spur Gear & Screw Winding
 Freight Only), 149 B'way. (See adv. in-
 dex, end of book)
 Burwak Elevator Co., 216 Fulton
 †Clermand & Co., 206 Centre
 †Couch, Sam'l & Sons, 214 Centre
 *Darrin, D. H. & Co., 131 Liberty
 Dowdall, Chas. E., 152 W B'way
ELEVATOR SUPPLY & REPAIR
 Co. (Signalling Apparatus Installed), 136
 Liberty (See adv. index, end of book)
 †Graham Bros. & Co., 662 Hudson
 †Kane, M. J. & Co., 136 Liberty
 Kenny Electrical Mfg. Co., 140 Nassau
 *Kier, John, 108 Liberty
***MARINE ENGINE & MACHINE**
 Co. (Electric & Hydraulic), 126 Liberty.
 Works: Harrison, N. J. (See adv. index,
 end of book)
 †Meagher, T. H., 103 Walker
***MORSE, WILLIAMS & CO. (Dept.**
 of Otis Elevator Co.), 108 Liberty (See adv.
 index, end of book)
 National Elevator Co., 400 W 23d
 †N. Y. Elevator Supply & Repair Co., 152
 Centre
***OTIS ELEVATOR CO. (Hydraulic,**
 Electric, etc.), 17 Battery pl. (See adv.
 index, end of book)
 †Pearson, McGlynn & Co., 10 Reade
 *Plunger Elevator Co., 17 Battery pl
 *Portland Co., 126 Liberty
 *Reedy Elevator Co., 202 9th av
 †Reilly's, Jas. Sons Co., 122 Centre
 *Roberts, James H., 430 W B'way
 Safety Electric Elevator Co., 136 Liberty
 *See, A. B. Electric Elevator Co., 220 B'way
 †Shaper, F. D., 153 Franklin
 Sommerville, John, 146 W 28th
STANDARD PLUNGER ELEVATOR
 Co. (Plunger), 1 B'way. (See adv. index,
 end of book)
 †Tracy Bros., 185 Washington
***WARNER ELEVATOR MFG. CO.**
 (Electric, Hydraulic & Hand & Belt
 Power, Passenger & Freight), 15 Park
 Row. (See adv. index, end of book)
 Welsh Machine Works, 276 & 277 West.
 New York
 (END OF NEW YORK CITY)
 OSSINING—Kipp, A., Jr. (Hydraulic)
 ROCHESTER—*OTIS ELEVATOR CO.
 198 Commercial. (See adv. index, end of
 book)

***WARSAW ELEVATOR CO., 262**
 State. (See adv. index, end of book)
 SYRACUSE—Houser Elevator Co., 314 E. Wa-
 ter
 W A R S A W—*WARSAW ELEVATOR
 Co. (See adv. index, end of book)
 YONKERS—*OTIS ELEVATOR CO. (See
 adv. index, end of book)

NORTH CAROLINA.

CHARLOTTE—Park Mfg. Co. (Belt Power)

OHIO.

CINCINNATI—Cincinnati Elevator Works, 216
 W 2d
 *Curran, Jas. H. Elevator Co., 114 W 2d
 Federspil, Charles, 236 B'way
 Hain, Frank M., Plum & Genesee
 *Haven Elevator Co., Knowlton & C. H. &
 D. R. R.
 Lane & Bodley Co., John & Water
 National Elevator Co., 124 Opera pl
***OTIS ELEVATOR CO. (Hydraulic,**
 Electric, etc.), Mercantile Library bldg.
 (See adv. index, end of book)
 Quigley, M. J., 216 W 2d
***REEDY, H. J. CO. (Electric, Hy-**
 draulic, Plunger, Steam, Hand, etc.), 11
 W 2d. (See adv. index, end of book)
 Troup, E. K., 124 W Pearl
***WARNER ELEVATOR MFG. CO.**
 (Electric, Hydraulic, Hand & Belt Power,
 Passenger & Freight), Spring Grove av,
 Alfred & Valley sts. (See adv. index,
 end of book)

CLEVELAND—Edmonds Elevator Co., 519
 Champlain v, N W
 *Kimball Elevator Co., 805 Vincent av, N E
***OTIS ELEVATOR CO. (Hydraulic,**
 Electric, etc.), Cuyahoga bldg. (See adv.
 index, end of book)
 COLUMBUS—†Beck Electrical Repair Co., 7 S
 Levee
 Columbus Elevator & Machine Co., Curtis &
 †Eaton Machine Co. Jefferson avs
 †Rupnow, W. L., 98 W Broad
 Snyder-Taylor Elevator Co.

DAYTON—Gem City Elevator Works, 612 W
 Wash'n
 SANDUSKY—Klotz Machine Co. (Hand &
 SIDNEY—Sidney Elevator Mfg. Co. Steam)
 TOLEDO—*Haughton Elevator & Machine Co.
 (Steam, Hydraulic, Belt, etc.), 124 S
 Huron

***OTIS ELEVATOR CO. (Hydraulic,**
 Electric, etc.). (See adv. index, end of
 book)
 *Universal Machine & Elevator Works

OREGON.

PORTLAND—*OTIS ELEVATOR CO.,
 206 Madison (See adv. index, end of book)
 †Portland Elevator Repair Co.
 Portland Hydraulic Elevator Co.
 Portland Iron Works, 495 Northrop
 Willamette Iron & Steel Works, 4th c Glisan

PENNSYLVANIA.

COATESVILLE—Ridgway, Craig & Son Co.
 (Heavy Freight)
 HONESDALE—*National Elevator & Machine
 Co. (Electric, Hydraulic, Belt & Hand
 Power)
 LANCASTER—†Welchans, A. C.
 NORRISTOWN—Rittenhouse, C. & Sons
 PHILADELPHIA—Albro-Clem Elevator Co.,
 7th & Glenwood av
 Energy Elevator Co., 411 Cherry
 Keystone Elevator Inspection & Repair Co.
 (Mfrs. & Repairers), 923 Locust
 McIntire, Walter C. & Co., 506 Commerce
MORSE, WILLIAMS & C. (Dept.
 of Otis Elevator Co.), 32 S Broad (See
 adv. index, end of book)

O'Neill Elevator Co., 628 Cherry
***OTIS ELEVATOR CO. (Hydraulic,**
 Electric, etc.), 32 South Broad. (See adv.
 index, end of book)
 Plunger Elevator Co., 32 South Broad
 *See, A. B. Electric Elevator Co., Land
 Title bldg
 Standard Elevator Co., 3107 Chestnut
STANDARD PLUNGER ELEVATOR
 Co., Pennsylvania bldg. (See adv. index,
 end of book)
 *Stokes & Parrish Elevator Co. (Dept of
 Otis Elevator Co.), 1228 Race
 *U. S. Elevator Co. (Inc.) (Passenger &
 Freight, Belt & Hand Power), 216 Dock
 PITTSBURG—†Elevator Construction Co., 307
 *Marshall Bros., S 21st & Mary Market
MORSE, WILLIAMS & C. (Dept.
 of Otis Elevator Co.), 1016 Penn av (See
 adv. index, end of book)
***OTIS ELEVATOR CO., 1016 Penn**
 av. (See adv. index, end of book)
 Seelar Elevator Co., 625 Fountain
 *Union Elevator Co. 33 Gist
 READING—*SPEIDEL, J. G. (Belt,
 Hand & Electric Power), Buttonwood c
 Gordon (See adv. index, end of book)
 SOUTH BETHLEHEM—BETHLEHEM
 Foundry & Machine Co. (Spur, Gear &
 Screw Winding Freight Only) (See adv.
 index, end of book)

RHODE ISLAND.

PROVIDENCE—†Anderson & Osterman Elec-
 trical Repair Co., 155 Orange
 †Dingley, B. F. & Co., 77 Page
 McCarroll, Sam'l H. (Plunger), 65 Jackson
 Mason, Volney W. & Co.
 *Providence Elevator Works, 58 Point
 Rhode Island Elev. & Machine Co., 35 Clif-
 †Swift, J. T. & Co., 95 Pine ford

TENNESSEE.

CHATTANOOGA—WARNER ELEVATOR
 Mfg. Co., 816 Georgia (See adv. index, end
 of book)
 MEMPHIS—Chickasaw Iron Works, 166 2d

UTAH.

SALT LAKE CITY—Trent Engineering & Ma-
 chinery Co.

VIRGINIA.

DANVILLE—Westbrooks, J. B. Foundry & Ma-
 chine Co. (Hand & Belt Power)
 RICHMOND—*MORSE, WILLIAMS &
 Co. (Dept. of Otis Elevator Co.) (See adv.
 index, end of book)
***OTIS ELEVATOR CO. (See adv.**
 index, end of book)
 Shelton, A. V. & Co.

WASHINGTON.

SEATTLE—†Biegert, J. C. Machine Works, 517
 1st av, S
 Erickson-Wyman Co., 1001 1st av, S
 *Moline Elevator Co., Hinckley blk
***OTIS ELEVATOR CO. (See adv.**
 index, end of book)
 SPOKANE—National Iron Works
 *Pacific Iron Works

WISCONSIN.

MILWAUKEE—*BRODESSER ELEVA-
 tor Mfg. Co. (Electric, Hydraulic, Steam,
 etc.), 514 Commerce. (See adv. below)
 †Heller, S., 290 5th av

THE BRODESSER ELEVATOR MFG. CO. MILWAUKEE, WIS.

NOT IN ANY TRUST

HIGH GRADE PASSENGER AND FREIGHT ELEVATORS ELECTRIC AND HYDRAULIC

CORRESPONDENCE SOLICITED

ELEVATORS.

A. Kieckhefer Elevator Company, MILWAUKEE, WIS.

Manufacturers of High Grade Electric, Hydraulic, Steam and Hand Power

Passenger and Freight Elevators.

CORRESPONDENCE SOLICITED.

KIECKHEFER, A. ELEVATOR
Co. (Electric, Hydraulic, Belt, Plunger,
etc.), 1026 St. Paul av. (See adv. above)
†Rosenberg, F. Elevator & Supply Co., 149
Clinton

Elevators (Gravity)

**ALVEY-FERGUSON CO. (Inc.) (Auto-
matic, for Barrels, Boxes, Crates, etc.),**
Louisville, Ky. (See adv. index, end of
book)
Mathews Gravity Carrier Co. (Automatic Con-
veyors, etc.), St. Paul, Minn.

Elevators (Hand)

(See also Dumb Waiters)

American Machine Co., Louisville, Ky.
Bates', Jas. Sons, Pratt & President, Baltimore,
Md.

BRODESSER ELEVATOR MFG. CO.,
Milwaukee, Wis. (See adv. on preceding
page)

Cincinnati Elevator Works, 216 W 2d, Cincin-
nati, Ohio
Columbus Elevator & Machine Co., Curtis &
Jefferson avs, Columbus, O.

**COHOES IRON FOUNDRY & MA-
chine Co., Cohoes, N. Y.** (See adv. index,
end of book)

Craig, W. H. & Co., 415 6th av, 8 Minneapolis,
Minn.

Haughton Elevator & Machine Co., 124 S.
Huron, Toledo, O.

Howard Iron Works, 287 Chicago, Buffalo, N. Y.

KIECKHEFER, A. ELEVATOR CO.,
1026 St. Paul av, Milwaukee, Wis. (See
adv. above)

**LAGERQUIST, GUST, 516 N 3d, Min-
neapolis, Minn.** (See adv. index, end of
book)

Mesker, Geo. L. & Co., -Evansville, Ind.
Miller, Wm. A., Elevator Mfg. Co., 117 Pine,
St. Louis, Mo.

**MORSE, WILLIAMS & CO. (Dept. of
Otis Elevator Co.), 32 S Broad, Phila., Pa.**
(See adv. index & branch offices, end of
book)

**REEDY, H. J. CO. (Inc.), 15 W 2d,
Cincinnati, O.** (See adv. index, end of book)

**REEDY, J. W. ELEVATOR MFG.
Co., 91 Illinois, Chicago, Ill.** (See adv.
index, end of book)

**SALEM ELEVATOR WORKS, Salem,
Mass.** (See adv. index, end of book)

**SEDGWICK MACHINE WKS., Pough-
keepsie, N. Y., & 128 Liberty, New York.**
(See adv. index, end of book)

Sidney Elevator Mfg. Co., Sidney, O.

**SPEIDEL, J. G., c Buttonwood &
Gordon, Reading, Pa.** (See adv. index, end
of book)

**SPRINGFIELD ELEVATOR & PUMP
Co., Springfield, Mass.** (See adv. index, end
of book)

**STORM MFG. CO., ft Centre, New-
ark, N. J.** (See adv. index, end of book)

Union Elevator & Machine Co., 144 Ontario,
Chicago, Ill.

U. S. Elevator Co., 216 Dock, Phila., Pa.

WARNER ELEVATOR MFG. CO.,
Spring Grove av, Alfred & Valley, Cincin-
nati, O., & 15 Park Row, N. Y. (See adv.
index & branch offices, end of book)

WARSAW ELEVATOR CO., Warsaw,
New York, & Erie Co., Bank Bldg., Buf-
falo, N. Y. (See adv. index & branch offices,
end of book)

Elevators (Hod)

Adrian Mfg. Co., Adrian, Mich.

Anderson, Chas., 983 Pacific, Brooklyn, N. Y.

**AMERICAN HOIST & DERRICK
Co., (For Building Materials), St. Paul,
Minn.** (See adv. index & branch offices, end
of book)

Boston Hoisting Co., 330 Dorchester av, S.
B., Boston, Mass.

BYERS, JNO. F. MACHINE CO.
(Double Platform), Ravenna, O. (See adv.
index, end of book)

Buckley, Jas. J. (For Building Material), 310
W 65th, New York

Carlson Hoisting Co., 293 Douglass, Brooklyn,
N. Y.

Contractors Plant Mfg. Co., 127 Erie, Buffalo,
N. Y.

Edelmeyer & Morgan Hod Elevator Co. (For
Building Material), 333 W. 49th, New York

FLORY, S. MFG. CO., Bangor, Pa.
(See adv. index, end of book)

Juhl Automatic Hoisting Machine Co., 3016
Cottage Grove av., Chicago, Ill.

KIECKHEFER, A. ELEVATOR CO.,
1026 St. Paul av, Milwaukee, Wis. (See
adv. above)

Kinnears, Jno., ft. W 63d, New York

Langjahr, Chas. (for Building Materials), 344
W Van Buren, Chicago, Ill.

Moline Elevator Co., Moline, Ill.

New York Hod Hoisting Co., 956 E. 133d, New
York City

Parker Hoist & Machine Co., 971 N. Francisco
av., Chicago, Ill.

**PELHAM OPERATING CO., 416 W
26th, New York.** (See adv. index, end of
book)

Smith, Wm. A. Elevator Co., 516 E 141st, New
York

Stimson Elevator Co. (For Building Materials),
183 Walnut, Chicago, Ill.

Thomas Elevator Co., 115 S Hayne av, Chi-
cago, Ill.

Thomas & Buckley Hod Elevator Co., 310 W
65th, New York

White Hod Elevator Co., 173 E 120th, New
York

Elevators (Hydraulic)

(See also Elevator Builders.)

American Machine Co., Louisville, Ky.

Bates James, Sons, Pratt c. President, Balti-
more, Md.

BRODESSER ELEVATOR MFG. CO.,
Milwaukee, Wis. (See adv. on preceding
page)

Columbus Elevator & Machine Co., Curtis & Jef-
ferson avs., Columbus, O.

Curran, Jas. H., Elevator Co., 114 W 2d, Cincin-
nati, O.

Faunt, Le Roy & Co., 8th nr. Pratt, Baltimore,
Md.

Hammond, J. & Co., 18th & Indiana, San Fran-
cisco, Cal.

Haughton Elevator & Machine Co., Toledo, O.

Kaestner & Co. (Inc.), 241 S. Jefferson, Chicago,
Ill.

KIECKHEFER, A. ELEVATOR CO.,
1026 St. Paul av, Milwaukee, Wis. (See
adv. above)

MARINE ENGINE & MACHINE CO.,
1123 B'way, New York. (See adv. index,
end of book)

Marshall Bros., 21st & Mary, Pittsburg, Pa.

Miller, Wm. A., Elevator Co., 9th cor. Victor,
St. Louis, Mo.

OTIS ELEVATOR CO., 17 Battery pl,
New York. (See adv. index & branch offices,
end of book)

Plunger Elevator Co., Barbers, Worcester,
Mass.

**REEDY, H. J. CO. (Inc.) (For Power,
Safety & Speed), 15 W. 2d, Cincinnati, O.**
(See adv. index, end of book)

**REEDY, J. W. ELEVATOR MFG.
Co., 91 Illinois, Chicago, Ill.** (See adv.
index, end of book)

**SPRINGFIELD ELEVATOR & PUMP
Co., Springfield, Mass.** (See adv. index, end
of book)

Rhode Island Elevator & Machine Co., 18 Calen-
dar, Providence, R. I.

Standard Plunger Elevator Co., Worcester, Mass.

Union Elevator & Machine Co., 28 Market, Chi-
cago, Ill.

WARNER ELEVATOR MFG. CO.,
Spring Grove av, Alfred & Valley, Cincin-
nati, O., & 15 Park Row, New York. (See
adv. index & branch offices, end of book)

WARSAW ELEVATOR CO., Warsaw,
N. Y. (See adv. index & branch offices,
end of book)

Whittier Machine Co., 53 State, Boston, Mass.

Elevators (Hydraulic Gravel)

ABENDROTH & ROOT MFG. CO.,
Newburgh, N. Y. (See adv. index & branch
offices, end of book)

Elevators (Incline)

(See Stairways, Moving)

Elevators (Invalid, Hand & Belt Power)

Haughton Elevator & Machine Co., Toledo, O.

**MORSE, WILLIAMS & CO. (Dept. of
Otis Elevator Co.), 32 S. Broad, Philadelphia,
Pa.** (See adv. index & branch offices, end of
book)

Murtaugh, Jas. Co., 202 E. 42d, N. Y.

**REEDY, H. J. CO., 15 W 2d, Cincin-
nati, O.** (See adv. index, end of book)

SEDGWICK MACHINE WORKS, Poughkeepsie, N. Y., & 128 Liberty, New York. (See adv. index, end of book)
SPEIDEL, J. G., c. Buttonwood & Gordon, Reading, Pa. (See adv. index, end of book)
STORM MFG. CO., ft. Centre, Newark, N. J. (See adv. index, end of book)
 Union Elevator & Machine Co., 28 Market, Chicago, Ill.
WARNER ELEVATOR MFG. CO., Spring Grove av., Alfred & Valley, Cincinnati, O., & 15 Park Row, New York. (See adv. index & branch offices, end of book)
WARSAW ELEVATOR CO., Warsaw, New York, & Erie Bank Bldg., Buffalo, N. Y. (See adv. index & branch offices, end of book)

Elevators (Plunger)

(See also Elevator Builders.)

Columbus Elevator & Machine Co., Curtis & Jefferson av., Columbus, O.
 Haughton Elevator & Machine Co., Toledo, O.
KIECKHEFER, A. ELEVATOR CO., 1026 St. Paul av., Milwaukee, Wis. (See adv. on preceding page)
 McAdams & Cartwright Elevator Co., 258 11th av., New York
 McCarroll, Samuel H., 65 Jackson, Providence, R. I.
MARINE ENGINE & MACHINE CO., Main Office, 126 Liberty, New York. Works: Harrison, N. J. (See adv. index, end of book)
 Marshall Bros. (Freight), S 21st & Mary, Pittsburgh, Pa.
 Plunger Elevator Co., Barbers', Worcester, Mass.
 Portland Co., Portland, Me.
 Rhode Island Elevator & Machine Co., 18 Calendar, Providence, R. I.
OTIS ELEVATOR CO., 17 Battery pl., New York. (See adv. index & branch offices, end of book)
REEDY, H. J. CO., 15 W 2d, Cincinnati, O. (See adv. index, end of book)
SPRINGFIELD ELEVATOR & PUMP CO. (Hydraulic), Springfield, Mass. (See adv. index, end of book)
STANDARD PLUNGER ELEVATOR CO., 1 B'way, New York. (See adv. index, end of book)
WARSAW ELEVATOR CO., Warsaw, N. Y., & Erie County Bank bldg., Buffalo, N. Y. (See adv. index & branch offices, end of book)

Elevators (Pneumatic)

CHICAGO PNEUMATIC TOOL CO., Fisher bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
 Curtis & Co. Mfg. Co., St. Louis, Mo.
MERRITT & CO., 1024 Ridge av., Phila., Pa. (See adv. index, end of book)
 Miles, George Co. (Plunger), Winsted, Conn.
NORTHERN ENGINEERING WORKS, 9 Chene, Detroit, Mich. (See adv. index, end of book)
 Quincy-Manchester-Sargent Co., Old Colony Bldg., Chicago, Ill.

Elevators (Quicksilver)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)
 Power & Mining Machinery Co., 52 William, New York. Works, Cudahy, Wis.

Elevators (Sidewalk)

BETHLEHEM FOUNDRY & MACHINE CO. (Electric & Power), Front, South Bethlehem, Pa., & 149 B'way, New York. (See adv. index, end of book)
 Bowes, John J., 227 W 29th, New York
 Columbus Elevator & Machine Co., Curtis & Jefferson av., Columbus, O.
 Cornell, J. B. & J. M. Co., 26th & 11th av., New York
 Curran, Jas. H. Elevator Co., 114 W 2d, Cincinnati, O.
 Darrin, D. H. Co., 131 Liberty, New York
 Dowdall, Chas. E., 152 W B'way, New York
 Edmonds Elevator Co., 146 Champlain, Cleveland, O.
 Grossman Bros. & Rosenbaum, 540 W. 58th, New York
 Haughton Elevator & Machine Co., Toledo, O.
 Hoffman, Chas. W. Co., 223 W. 28th, New York
KIECKHEFER, A. ELEVATOR CO., 1026 St. Paul av., Milwaukee, Wis. (See adv. on preceding page)

Kohlmetz, Chas. E. & H. L., 180 N Water, Rochester, N. Y.
 McLauthlin, Geo. T. Co., 120 Fulton, Boston, Mass.
 Marshall Bros., S 21st & Mary, Pittsburg, Pa.
 Michel, Geo. J., 25 S Water, Rochester, N. Y.
 Moline Elevator Co., Moline, Ill.
MORSE, WILLIAMS & CO. (Dept. of Otis Elevator Co.), 32 S Broad, Phila., Pa. (See adv. index & branch offices, end of book)
 Murtaugh, Jas. Co., 202 E 42d, New York
 Pettitt, J. G., 31 Beale, San Francisco, Cal.
REEDY, H. J. CO. (Inc.) (Electric, Hydraulic & Hand Power), 15 W 2d, Cincinnati, O. (See adv. index, end of book)
SEDGWICK MACHINE WORKS, Poughkeepsie, N. Y., & 128 Liberty, New York. (See adv. index, end of book)
 Sidwalk Elevator Co., Scranton, Pa.
 Sommerville, John, 146 W 28th, New York
SPEIDEL, J. G., c. Buttonwood & Gordon, Reading, Pa. (See adv. index, end of book)
STORM MFG. CO., ft. Centre, Newark, N. J. (See adv. index, end of book)
 Unlou Elevator & Machine Co., 144 Ontario, Chicago, Ill.
 U. S. Elevator Co., 216 Dock, Phila., Pa.
WARNER ELEVATOR MFG. CO., Spring Grove av., Alfred & Valley, Cincinnati, O., & 15 Park Row, New York. (See adv. index & branch offices, end of book)
WARSAW ELEVATOR CO., Warsaw, N. Y., & Erie Co. Bank bldg., Buffalo, N. Y. (See adv. index & branch offices, end of book)

Elevators (Traveling, Coal)

WARSAW ELEVATOR CO., Warsaw, N. Y., & Erie Co. Bank bldg., Buffalo, N. Y. (See adv. index & branch offices, end of book)

Elevators (Water, for Mine & Quarry)

BARTLETT, C. O. & SNOW CO., Cleveland, O. (See adv. index, end of book)
JEFFREY MFG. CO., Columbus, O. (See adv. index, end of book)
 Link Belt Co., W 39th, cor Stewart av., Chicago, Ill., & 299 B'way, New York

Elevators & Conveyors (Ice)

(See Ice Handling Machinery)

*Elevators & Conveyors (Mail Bag)

JEFFREY MFG. CO., Columbus, O. (See adv. index & branch offices, end of book)

Eliminators

Egdir Supply & Equipment Co. ("Ridge"), Carbondale, Pa.
 Nicholson, W. H. & Co. ("Wyoming," Automatic), Wilkes-Barre, Pa.
 Robetson, Jas. L. & Son (Inc.) (Hine's), 48 Warren, New York

*Embossing Size

GRAMMES, L. F. & SONS, Allentown, Pa. (See adv. index, end of book)

Emery Grinders

(See Grinders, Emery)

Emery Steel Mfrs.

Pittsburg Crushed Steel Co. (Ltd.), Westinghouse bldg, Pittsburg, Pa.

Emery Stones

(See Stones, Emery)

Emery Wheel Dressers

American Emery Wheel Works, Providence, R. I.
 Bay State Stamping Co. ("Bennett"), Worcester, Mass.
 Browne & Dowd Mfg. Co. ("American"), Meriden, Conn.

Builders' Iron Foundry ("Challenge"), Providence, R. I.
 Calder, Geo. H. ("Calder"), Lancaster, Pa.
 Challenge Machine Co. (Inc.) ("Gruwa-Huntington"), 5036 Hazel av., Phila., Pa.
 Chicago Screw Co. ("Genuine Huntington"), 2 N Canal, Chicago, Ill.
 Cleveland Flue Cleaner Mfg. Co. ("Brisben", Shell Cutter), Cleveland, O.
 Clizbe Bros. Mfg. Co. ("Crown"), Plymouth, Ind.
 Columbus Bolt Works, Randolph & Gorman, Columbus, O.
 Curtin-Herbert Mfg. Co., Gloversville, N. Y.
 Dayton Malleable Iron Co., Dayton, O.
 Desmond-Stephen Mfg. Co. ("Desmond", "Diamond-Carbo"), Urbana, O.
DESSAU'S, S. SONS (Diamond Set), 180 B'way, New York. (See adv. index, end of book)
 Diamond Machine Co., Providence, R. I.
 Diamond Saw & Stamping Works ("Sterling"), 357 Seventh, Buffalo, N. Y.
 Dickinson, Jno. (Est. of) (Diamond Pointed), 64 Nassau, New York
 Dickinson, Thos. L., 45 Vesey, N. Y.
 Frasse Co., 134 Liberty, New York
 Globe Machine & Stamping Co. ("Culver Perfection"), Cleveland, O.
 Heald Machine Co., Worcester, Mass.
 International Specialty Co. ("Economo" Combination & "Economo" Crucible), 346 Holden ave., Detroit, Mich.
 Lancaster Peerless Emery Wheel Co., Lancaster, Pa.

Northampton Emery Wheel Co., Leeds, Mass.
 Reed Mfg. Co., Erie, Pa.
 Southington Cutlery Co., Southington, Conn.
 Standard Screw Co. (Genuine Huntington), 2 N Canal, Chicago, Ill.
 Standard Tool Co. ("Standard"), Central av & P Ry, Cleveland, O.
 Star Corundum Wheel Co., 224 21st, Detroit, Mich.

Tanite Co., Stroudsburg, Pa.
VITRIFIED WHEEL CO., Westfield, Mass. (See adv. index, end of book)
 Western Tool Works ("Huntington" Pattern), Galesburg, Ill.
 Wrigley, Thos. & Co., 300 Dearborn, Chicago, Ill.

Emery Wheel Stands & Arbors

(See Emery Grinding Machines)

Emery Wheels (Vulcanized Rubber)

Manhattan Rubber Mfg. Co., 18 Vesey, New York
 New York Belting & Packing Co., 91 Chambers, New York

Emery & Corundum Mfrs.

Abrasive Mining & Mfg. Co. (Miners & Mfrs., Scimitar, Sultan Emery, Turkish Emery, Noxas Emery, Corundum), Plymouth, Ind., & Chester, Mass.
 Abrasive Material Co., S 72d & Upland, Phila., Pa.
 American Corundum Co. (For Abrasive Wheels), Bridgeport, Conn.
HAMPDEN CORUNDUM WHEEL CO., Brightwood, Springfield, Mass. (See adv. on following page)
HARRISON SUPPLY CO. (Dealers), 5 & 7 Dorchester Av Extension, Boston, Mass. (See adv. index, end of book)
 International Emery & Corundum Co., 25 Broad, New York
 Keystone Emery Mills, Frankfort, Phila., Pa.
 Levant Emery Co., Perth Amboy, N. J.
NORTON EMERY WHEEL CO., Worcester, Mass. (See adv. index, end of book)

When writing to firms whose names appear in this book please mention

HENDRICKS' COMMERCIAL REGISTER.

PELHAM OPERATING Co.

RENTING OUR SPECIALTY

By Day or Week—Immediate Delivery

ALL STYLES OF

ELECTRIC and STEAM ELEVATORS

AND ENDLESS CHAIN MACHINES FOR
HOISTING BUILDING MATERIALS : :

STEAM PUMPS

FOR DRAINING CELLARS AND FOUNDATIONS

CAMERON, PULSOMETER, CENTRIFUGAL Sand and
Dredging Pumps Directly Connected ♣ 200 to 5,000 Gallons
per minute ♣ Steam Jet Pumps for Caisson Work a
Specialty ♣ Also Hand Pumps ♣ All Styles of HOIST-
ING ENGINES Constantly on Hand for All Purposes ♣
UPRIGHT and LOCOMOTIVE BOILERS from 10 to 100 H. P.

410 to 418 West 26th St., New York

TELEPHONES 15 and 16 CHELSEA

HENDRICKS' Commercial Register

Leads the Procession
of Publications in the
≡March of Trade≡

Among Architects, Builders, Contractors,
Engineers, Purchasing Agents of
Railroads, Mills, Mines, Factories and
Supply Houses

Because it is the most complete Buyers'
Reference and the most profitable
Advertising Medium.

Use Hendricks' COMMERCIAL
REGISTER



Write for particulars of free classifications.

Oriental Emery Co. ("Oriental Mills"), Derby, Conn.
 Stiles, H. A. & Co. ("Ottoman," Brand Turkish & Noxas Emery & Greek Corundum), 176 Federal, Boston, Mass.
VITRIFIED WHEEL CO., Westfield, Mass. (See adv. index, end of book)
 Washington Mills Emery Mfg. Co. (Turkish Emery only), North Grafton, Mass.

Emery & Corundum Wheel Mfrs.

Abrasive Material Co., S 72d & Upland, Phila., Pa.
 Adams Co. (Emery, Cushing Bearing), Dubuque, Iowa
 American Emery Wheel Works, Providence, R. I.
 Bay State Emery Wheel Co., Worcester, Mass.
 Bridgeport Safety Emery Wheel Co., Bridgeport, Conn.
 Buffalo Emery Wheel Co. (M. Reich, Prop.), 16 Lock, Buffalo, N. Y.
 Caborundum Co. (Carborundum Only), Niagara Falls, N. Y.
 Chicago Wheel & Mfg. Co. (Emery), 40 W Randolph, Chicago, Ill.
 Cortland Corundum Wheel Co., Cortland, N. Y.
 Detroit Emery Wheel Co. ("Detroit"), c Jefferson & Field av, Detroit, Mich.
 Electric Emery Wheel Co. (Emery), Newark, N. J.
 Gesswein, F. W. Co., 39 John, New York
 Gold, Walter C., "The Keystone," 235 Race, Phila., Pa.
HAMPDEN CORUNDUM WHEEL CO., Brightwood, Springfield, Mass. (See adv. below)

HAMMACHER, SCHLEMMER & CO., 133 4th av, New York. (See adv. index, end of book)

Keystone Emery Mills, 4325 Paul, Phila., Pa.
 Lancaster Peerless Emery Wheel Co., Lancaster, Pa.

Manistee Emery Wheel Co., Manistec, Mich.
 National Corundum Wheel Co., Clayville, N. Y.
 Northampton Emery Wheel Co., Leeds, Mass.
 Peninsular Emery Wheel Co. (also Adamite Abrasive Wheels), Detroit, Mich.
 Pike Mfg. Co., Pike Station, N. H., & 151 Chambers, New York

Safety Emery Wheel Co., Springfield, O.
 Southern Saw Works, Atlanta, Ga.
 Springfield Mfg. Co., Bridgeport, Conn.
 Star Corundum Wheel Co., Detroit, Mich.
 Sterling Emery Wheel Mfg. Co. (Adamite Wheel also), Tiffin, O.

Superior Corundum Wheel Co., Waltham, Mass.
 Tanite Co., Stroudsburg, Pa.
 Trenton Emery Wheel Co., Trenton, N. J.

VITRIFIED WHEEL CO., Westfield, Mass. (See adv. index, end of book)
 Waltham Emery Wheel Co. ("Richardson"), Waltham, Mass.
 Worcester Emery Wheel Co., Worcester, Mass.

*Emery & Corundum Wheels with Safety Collars

HAMPDEN CORUNDUM WHEEL CO., Brightwood, Springfield, Mass. (See adv. below)

Enameled Hollow Ware

Avery Stamping Co., Cleveland, O.
 Baltimore Stamping Co., Baltimore, Md.
 Carnahan Stamping & Enameling Co., Canton, O.
 Central Stamping Co., 24 Cliff, New York

Cleveland Stamping & Tool Co., Hamilton c Coe, Cleveland, O.

Columbian Enameling & Stamping Co., Terre Haute, Ind.

Dunlap, John Co. ("Monogram," "Vulcan," "Blue-Stone," "Janet"), Pittsburg, Pa.

Enterprise Enamel Co., Bellaire, O.

Geisel, A. Mfg. Co., 219 So 2d, St. Louis, Mo.

Iron Clad Mfg. Co., 189 Cook, Brooklyn, N. Y.

Jones Hollow Ware Co., Ensor c Ashland av, Baltimore, Md.

Lalance & Grosjean Mfg. Co., 19 Cliff, New York

Lisk Mfg. Co. (Ltd.), Canandigua, N. Y.

Manning, Bowman & Co., Meriden, Conn.

Marietta Hollow Ware & Enameling Co., Marietta, Pa.

Mound City Mfg. & Enameling Co., 1853 Menard, St. Louis, Mo.

National Enameling & Stamping Co., 81 Fulton, New York

New Castle Stamping Co., New Castle, Pa.

New England Enameling Co. ("Ideal"), Middletown, Conn.

Purity Enameled Ware Co., 29 Cliff, New York

Reed Mfg. Co., Newark, N. J.

Republic Metalware Co., 60 Tecumseh, Buffalo, N. Y., & 21 Cliff, New York

Republic Stamping & Enameling Co. (French Mottled Ware), Canton, O.

Sternan, S. & Co. (Fancy Kettles, Coffee Machines, Coffee & Tea Pots, etc.), 195 Plymouth, Brooklyn, N. Y.

Sweeney, W. H. Mfg. Co. (Copper, Brass & Nickel-Plated Ware), 66 Water, Brooklyn, N. Y.

U. S. Stamping Co., Moundsville, W. Va.

Vollrath, Jacob J. Mfg. Co., Sheboygan, Wis.

*Enameled Rings

STAR EXPANSION BOLT CO., 147 Cedar, New York City. (See adv. index, end of book)

Enamelers

American Enamel Co. (of Wood, Metal, etc.), Providence, R. I.

Baltimore Enamel & Novelty Co. (Metal), Allen & Clement, Baltimore, Md.

Dick, D. D. & Son, 519 Cherry, Phila., Pa.

Estes, E. B. & Sons (Fancy & Plain Wood), 45 72 Warren, New York

Green Point Enamel Works (on Wood), 300 Greenpoint av, Brooklyn, N. Y.

Michigan Enameling Works (Porcelain), Kalamazoo, Mich.

NARRAGANSETT MACHINE CO. (Wood & Metal), Providence, R. I. (See adv. index, end of book)

NOVELTY TURNING CO. (Wood), Norway Me. (See adv. index, end of book)

OSBORN MFG. CO. (Rice Plant), New Durham, N. H.

Enamels

Acme White Lead & Color Works, Detroit, Mich.

Adams & Elting Co., 155 W Wash'n, Chicago, Ill.

American Bitumastic Enamel Co. (Bitumastic), 311 Walnut, Phila., Pa.

Arnstein, Eugene, 35th & Shields av, Chicago, Ill.

Aspinall, Edwin (Importer), 136 Water, New York

ATLAS PAINT CO. (Ltd.), 2638 Liberty av, Pittsburg, Pa.

Banzai Mfg. Co. ("Banzai-Matt" for Walls & Woodwork), 24 East 23d, New York

Bigelow Varnish Co. (White), 136 Chestnut, Newark, N. J.

Billings-Chapin Co., 37 Case av, Cleveland, O.

Billings, King & Co., 438 Pearl, N. Y., & 153 Congress, Boston, Mass.

BINSWANGER, B. CO., 115 N 4th, Phila., Pa.

BLANCHITE CO. (Ltd.) ("Blanchite"), 139 Charles, New York. (See adv. index, end of book)

Bowen's, S. Son, 4th & Venango, Phila., Pa.

Bradley & Vrooman Co., 2633 Dearborn, Chicago

Bridgeport Wood Finishing Co., New Milford, Conn., & 55 Fulton, New York

Buffalo Enamel & Stain Co. (Paint), Ellicott sq, Buffalo, N. Y.

BURNS, C. L., 156 5th av, New York. (See adv. index, end of book)

Canton Paint & Varnish Co., Canton, O.

Cawley, Clark & Co., 272 Passaic, Newark, N. J.

Chicago Varnish Co. ("Enamelite"), Dearborn av & Kinzie, Chicago, Ill.

Chicago Wood Finishing Co., 261 Elston av, Chicago, Ill.

De Ronde, Frank S. Co., 46 Cliff, New York

Ernecke & Salmstein (Marble Paint for Walls & Ceilings), 631 N Halsted, Chicago, Ill.

Forest City Paint & Varnish Co. (All Kinds), Cleveland, O.

Felton, Sibley & Co., 136 N 4th, Phila., Pa.

FRENCH, SAMUEL H. & CO., 4th & Callowhill, Phila., Pa. (See adv. index, end of book)

Gerstendorfer Bros. ("Star"), 231 E 42d, New York

Harrison Bros. & Co. (Inc.), 35th & Gray's Ferry rd, Phila., Pa., & 117 Fulton, N. Y.

Kay & Ess Co., Dayton, Ohio.

Lancaster Paint & Glass Co., Lancaster, Pa.

Lucas, John & Co., 4th & Race, Phila., Pa.

National Enameling & Stamping Co., White & B'way, New York

M'Lennan Paint Co. (Ltd.), 175-195 Rano, Buffalo, N. Y.

New Jersey Enamel Paint Co., Raritan, N. J.

Nice, Eugene E. ("Nice"), 270 S 2d, Phila., Pa.

Phoenix Paint & Varnish Co. (Marbleite), 124 Market, Phila., Pa.

Piqua Paint & Putty Co. (Paint), Piqua, O.

RINALD BROS. (Porcelain, etc.), 1142 N Hancock, Phila., Pa. (See adv. index, end of book)

Schlegel, Oscar Mfg. Co., 111 E 12th

Smith, Edw. & Co., 45 B'way, New York

Sovereign, C. E. Co. (Rockford Top Dressing), Rockford, Ill.

Thompson, Thos. C., Wilmette, Ill.

THOMSON WOOD FINISHING CO., 115 N 4th, Phila., Pa. (See adv. index, end of book)

Toch Bros., 320 5th av, New York

UNITED STATES GUTTA PERCHA Paint Co. ("Chinaline" for Interior Finish), 12-30 Dndley, Providence, R. I. (See adv. index, end of book)

Wadsworth-Howland Co., Indiana av & 13th, Chicago

Wadsworth, Howland & Co., 84 Wash'n, Boston, Mass.

Waterall, Wm. & Co., 200 N 4th, Phila., Pa.

Wilhelm, A. Co., Reading, Pa.



IF YOU WANT THE BEST RESULTS USE

HAMPDEN EMERY AND CORUNDUM WHEELS

Our Safety Collars make Wheels absolutely safe.

Write us for our prices, and let us send you a wheel on trial.

HAMPDEN CORUNDUM WHEEL COMPANY, Brightwood, Mass.

Enamels (Air Drying)

Arnstein, Eugene, 35th & Shields av, Chicago, Ill.
BLANCHITE CO., Ltd., 139 Charles,
 New York (See adv. index, end of book)
 Bowen's, S. Son ("Pecora"), 4th & Venango,
 Phila., Pa.
FRENCH, SAM'L H. & CO., 4th & Callowhill,
 Phila., Pa. (See adv. index, end of book)
 National Cement & Rubber Mfg. Co. (& Air Drying), Toledo, O.
RINALD BROS., 1142 N Hancock,
 Phila., Pa. (See adv. index, end of book)
 Sherwin-Williams Co., 104 Canal, Cleveland, O.
STANDARD VARNISH WORKS, 29 B'way,
 New York. (See adv. index & branch offices, end of book)
THOMSON WOOD FINISHING CO., 115 N 4th,
 Phila., Pa. (See adv. index, end of book)

Enamels (Aluminum)

Arnstein, Eugene, 35th & Shields av, Chicago, Ill.
BINSWANGER, B. & CO., 115 N 4th,
 Phila., Pa.
 Bowen's, S. Son, 4th & Venango, Phila., Pa.
 Cullen, F. C. & Co. ("Peerless"), 704 W Lake,
 Chicago, Ill.
 Detroit Stove Polish Co., Detroit, Mich.
FRENCH, SAM'L H. & CO., 4th & Callowhill,
 Phila., Pa. (See adv. index, end of book)
 Gerstendorfer Bros. ("Sapolin"), 231 E 42d,
 Hommel, O., Co., Pittsburg, Pa. New York
 Sherwin-Williams Co., 104 Canal, Cleveland, O.

Enamels (Baking)

Arnstein, Eugene, 35th & Shields av, Chicago, Ill.
BLANCHITE CO., Ltd., 139 Charles,
 New York (See adv. index, end of book)
 Bowen's, S. Son ("Pecora"), 4th & Venango,
 Phila., Pa.
 Canton Paint & Varnish Co., Canton, O.
FRENCH, SAM'L H. & CO., 4th & Callowhill,
 Phila., Pa. (See adv. index, end of book)
 National Cement & Rubber Mfg. Co. (air drying), Toledo, O.
RINALD BROS., 1142 N Hancock,
 Phila., Pa. (See adv. index, end of book)
 Sherwin-Williams Co., 104 Canal, Cleveland, O.
 Smith Paint & Varnish Co., 329 Chestnut, Milwaukee, Wis.
STANDARD VARNISH WORKS, 29 B'way,
 New York (See adv. index & branch offices, end of book)
THOMSON WOOD FINISHING CO., 115 N 4th,
 Phila., Pa. (See adv. index, end of book)
 Wilhelm, A. Co., Reading, Pa.

Enamels (Bath Tub)

Acme White Lead & Color Works, Detroit, Mich.
 Arnstein, Eugene, 35th & Shields av, Chicago, Ill.
 Behlen, Herman & Bro., 5 N William, New York
BLANCHITE CO., Ltd., 139 Charles,
 New York (See adv. index, end of book)
 Bowen's, S. Son, 4th & Venango, Phila., Pa.
 Burdsal, A. Co., 102 S. Meridan, Indianapolis, Ind.
 Canton Paint & Varnish Co., Canton, O.
 Cullen, F. C. & Co. ("Peerless" Aluminum), 704 W Lake, Chicago, Ill.
 Devoe, F. W. & C. T. Reynolds Co. cor Fulton & William, New York
 Ernecke & Salmstein, 631 N Halsted, Chicago, Ill.
FRENCH, SAMUEL H. & CO., 4th & Callowhill,
 Philadelphia, Pa. (See adv. index, end of book)
 Lucas, John & Co., 322 Race, Phila., Pa.
 McLennan Paint Co. (Ltd.), 175-195, Rano, Buffalo, N. Y.
RINALD BROS., 1142 N Hancock,
 Phila., Pa. (See adv. index, end of book)
 Sherwin-Williams Co., 104 Canal, Cleveland, O.
THOMSON WOOD FINISHING CO., 115 N 4th,
 Philadelphia, Pa. (See adv. index, end of book)
UNITED STATES GUTTA PERCHA
 Paint Co., 12-30 Dudley, Providence, R. I. (See adv. index, end of book)
 Wilhelm, A. Co., Reading, Pa.

*Enamels (Bedstead)

BLANCHITE CO., Ltd., 139 Charles,
 New York (See adv. index, end of book)

Enamels (Brewers')

Acme White Lead & Color Works, Detroit, Mich.
 American Bitumastic Enamel Co., 311 Walnut, Phila., Pa.
BLANCHITE CO., Ltd., 139 Charles,
 New York (See adv. index, end of book)
 Bowen's, S. Son, 4th & Venango, Phila., Pa.
 Canton Paint & Varnish Co., Canton, O.
FRENCH, SAMUEL H. & CO., 4th & Callowhill,
 Philadelphia, Pa. (See adv. index, end of book)
 Hamrick Tank & Barrel Hard Shell Enameling Co., 5831 Wissahickon av., Phila., Pa.
 Lucas, John & Co., 322 Race, Phila., Pa.
 Nubian Paint & Varnish Co., Cragin, Chicago, Ill.
 Sherwin-Williams Co., 104 Canal, Cleveland, O.
 Wilhelm, A. Co., Reading, Pa.

*Enamels for Tiling, Concrete & Plaster

BLANCHITE CO. (Ltd.) ("Blanchite,"
 for Porcelain Appearances), 139 Charles,
 New York. (See adv. index, end of book)
FRENCH, SAMUEL H. & CO., 4th & Callowhill,
 Philadelphia, Pa. (See adv. index, end of book)

Enamels (Gold, Washable)

FRENCH, SAMUEL H. & CO., 4th & Callowhill,
 Philadelphia, Pa. (See adv. index, end of book)
 Gerstendorfer Bros., 231 E 42d, New York

Enamels (Iron)

American Bitumastic Enamel Co., 311 Walnut, Phila., Pa.
BLANCHITE CO. (Ltd.) ("Blanchite"),
 139 Charles, New York. (See adv. index, end of book)
 Bowen's, S. Son ("Pecora"), 4th & Venango, Phila., Pa.
 Canton Paint & Varnish Co., Canton, O.
FRENCH, SAMUEL H. & CO., 4th & Callowhill,
 Philadelphia, Pa. (See adv. index, end of book)
 Otley Mfg. Co. ("Eureka," Heat Proof for Locomotive Stacks & Boiler Fronts, etc.), 855 N. Winchester av., Chicago, Ill.
RINALD BROS., 1142 N Hancock,
 Phila., Pa. (See adv. index, end of book)
 Sherwin-Williams Co., 104 Canal, Cleveland, O.
THOMSON WOOD FINISHING CO., 115 N 4th,
 Phila., Pa. (See adv. index, end of book)
UNITED STATES GUTTA PERCHA
 Paint Co. ("Rice's" Oxidized Machine Enamel), 12-20 Dudley, Providence, R. I.
 Wilhelm, A. Co., Reading, Pa.

*Enamels (Porcelain)

RINALD BROS., 1142 N Hancock,
 Philadelphia, Pa. (See adv. index, end of book)

Enamels (Radiator)

(See also Enamels)

Acme White Lead & Color Works, Detroit, Mich.
 Arnstein, Eugene, 35th & Shields av., Chicago, Ill.
BLANCHITE CO. (Ltd.), 139 Charles,
 New York. (See adv. index, end of book)
 Bowen's, S. Son, 4th & Venango, Phila., Pa.
 Cullen, F. C. & Co. ("Peerless" Aluminum), 704 W Lake, Chicago, Ill.
FRENCH, SAMUEL H. & CO., 4th & Callowhill,
 Philadelphia, Pa. (See adv. index, end of book)
 Gerstendorfer Bros., 231 E 42d, New York
 Sherwin-Williams Co., 104 Canal, Cleveland, O.
 Lucas, John & Co., 322 Race, Philadelphia, Pa.
RINALD BROS., 1142 N Hancock,
 Phila., Pa. (See adv. index, end of book)
 Wilhelm, A. Co., Reading, Pa.

Enamels (Stove Pipe)

Engel, Jno. & Co., 137 W. B'way, N. Y.
 Gerstendorfer Bros., 231 E 42d, New York
 Sherwin-Williams Co., 104 Canal, Cleveland, O.
 Wilhelm, A. Co., Reading, Pa.

Ends (Bolt)

American Equipment Co., Norristown, Pa.
 American Iron & Steel Mfg. Co., Lebanon, Pa.
 Central City Bolt Co., Syracuse, N. Y.
 Clark Bros. Bolt Co., Milldale, Conn.
 Columbus Bolt Works, Columbus, O.
 Continental Bolt & Iron Works, 22d & Union, Chicago, Ill.
 Graham Nut Co., W. Carson nr. Point Bridge, Pittsburg, Pa.
 Haskell, Wm. H. Mfg. Co., Pawtucket, R. I.
 Hazel Atlas Glass Co., Wheeling, W. Va.
 Hoopes & Townsend Co., 1330 Buttonwood, Philadelphia, Pa.
 Hubbard & Co., Pittsburg, Pa.
 Lake Erie Iron Co., Wade bldg., Cleveland, O.
 Lamson & Sessions Co., 2188 Scranton road, S. W., Cleveland, O.
 Lanz, M. & Sons, 101 S 29th, Pittsburg, Pa.
 Michigan Bolt & Nut Works, ft Meldrum av, Milton Mfg. Co., Milton, Mich. Detroit, Mich.
NATIONAL SUPPLY CO., 7 W. Lombard,
 Baltimore, Md. (See adv. index, end of book)
 New England Bolt & Nut Co., 267 Atlantic av, Boston, Mass.
 Old Dominion Iron & Nail Works Co., Richmond, Va.
 Pawtucket Mfg. Co., Pawtucket, R. I.
 Penn Iron Co., Lancaster, Pa.
 Pittsburg Mfg. Co., 28th & R. R., Pittsburg, Pa.
 Pittsburg Screw & Bolt Co., Pittsburg, Pa.
 Republic Iron & Steel Co., Frick Bldg, Annex, Pittsburg, Pa.
 Rhode Island Tool Co. (With Square Nut), Providence, R. I.
 Russell, Burdsall & Ward Bolt & Nut Co., Port Chester, N. Y.
 Scranton Bolt & Nut Co., Scranton, Pa.
 Upson Nut Co., Unionville, Conn., & Cleveland, Ohio

Engine Governors (Steam)

(See Governors, Steam Engine)

Engine Indicators (Steam)

(See Indicators, Steam Engine)

Engine Shields & Guards

Akron Mfg. Co., Akron, O.
 Strandwitz & Scott, Delaware av & Cooper, Camden, N. J.
WILSON, F. CORTEZ & CO., 239 Lake,
 Chicago, Ill. (See adv. index, end of book)

Engine Starters (Automobile)

American Electric Novelty Mfg. Co. ("Alvin" Self-Starter), 308 Hudson, New York
 Auto Improvement Co. ("Ever Ready"), 304 Hudson, New York
 Ball, F. H. & F. O., Bound Brook, N. J.
 Lanterman H. W., Kokomo, Ind.
 Lock Switch Mfg. Co., 20 Broad, New York

Engine Stops (Speed Limit)

Consolidated Engine Stop Co. ("The Monarch"), 130 E 12th, New York
 Kinsman Electric & Railway Supply Co., 91 Liberty, New York
 Locke Regulator Co. (Automatic), Salem, Mass.
 Wright, J. K., 136 Liberty, New York

When writing to firms
 whose names appear
 in this book please
 mention

**HENDRICKS'
 COMMERCIAL
 REGISTER.**

Engine & Boiler Combined

American Iron Works, Des Moines, Ia.
AMERICAN WELL WORKS, Aurora,
 Ill. (See adv. index & branch offices, end of book)
 Atlas Engine Works, 19th & Martindale av., Indianapolis, Ind.
BYERS, JOHN F., MACHINE CO.,
 Ravenna, O. (See adv. index, end of book)
 Campbell, Wm. & Co., 6th & B'way, Cambridge, Mass.
 Comstock Mfg. Co., Comstock, Mich.
 Enterprlse Mfg. Co., Columbiana, O.
 Erie Pump & Engine Co. (Side & Center Crank), Erie, Pa.
 Farquhar, A. B. Co., York, Pa.
 Freeman, S. & Sons Mfg. Co., Racine, Wls.
 Frick Co., Waynesboro, Pa.
 Geiser Mfg. Co., Waynesboro, Pa.
LAMBERT HOISTING ENGINE CO.,
 Main Office & Works, 115-121 Polner, Newark, N. J. (See adv. index & branch offices, end of book)
LIDGERWOOD MFG. CO., 96 Liberty,
 New York, & Old Colony bldg, Chicago (See adv. index & branch offices, end of book)
 Murray Iron Works Co. (Vertical), Burlington, Ia.
 Orr & Seimbower, Reading, Pa.
 Roots, P. H. & F. M. Co., Connersville, Ind.
 Salem Iron Works, Salem, N. C.
 U. S. Rapid-Fire Gun & Power Co., ('Franke' Four Ported Steam), Derby, Conn.

Engine & Boiler Supplies

(See Engineers' Supplies)

Engineering Schools & Colleges**ALABAMA.**

AUBURN—Alabama Polytechnic Institute
 UNIVERSITY—University of Alabama

ARKANSAS.

FAYETTEVILLE—Arkansas Industrial University
 University of Arkansas

CALIFORNIA.

BERKELEY—University of California.
 PALO ALTO—Leland Stanford, Jr., University
 SAN FRANCISCO—School of Practical Mining, Civil, Mechanical, Electrical Engineering, 933 Market
 Sogswell Polytechnic College, 26th & Folsom
 Van der Naillen's School of Engineering, 113 Fulton

COLORADO.

BOULDER—Colorado State University
 FORT COLLINS—Colorado State Agricultural College
 GOLDEN—State School of Mines

CONNECTICUT.

NEW HAVEN—Yale University (Sheffield Scientific)

DELAWARE.

NEWARK—Delaware College

DISTRICT OF COLUMBIA.

WASHINGTON—Corcoran Scientific School of Columbian University
 Bliss School of Electricity

FLORIDA.

LAKE CITY—University of Florida

GEORGIA.

ATHENS—University of Georgia.
 ATLANTA—Georgia School of Technology

ILLINOIS.

CHAMPAIGN—University of Illinois
 CHICAGO—Armour Institute of Technology
 Lewis Institute
 PEORIA—Bradley Polytechnic Institute

When writing to firms listed in this book please mention HENDRICKS' COMMERCIAL RECISTER

INDIANA.

INDIANAPOLIS—Winona Technical Institute
 LAFAYETTE—Purdue University
 NOTRE DAME—University of Notre Dame
 RICHMOND—Earlham College
 TERRA HAUTE—Rose Polytechnic Institute
 VALPARAISO—Valparaiso College

IOWA.

AMES—Iowa State College
 IOWA CITY—University of Iowa
 MOUNT VERNON—Cornell College

KANSAS.

LAWRENCE—University of Kansas
 MANHATTAN—Kansas Agricultural College
 WICHITA—Friends University

KENTUCKY.

LEXINGTON—Kentucky University
 State College of Kentucky

LOUISIANA.

NEW ORLEANS—Tulane University of Louisiana

MAINE.

ORONO—University of Maine
 WATERVILLE—Colby University

MARYLAND.

ANNAPOLIS—St. John's College
 COLLEGE PARK—Maryland Agricultural College

MASSACHUSETTS.

AMHERST—Mass. Agricultural College
 BOSTON—Mass. Institute of Technology
 CAMBRIDGE—Harvard University (Lawrence Scientific)
 COLLEGE HILL—Tufts College
 WORCESTER—Worcester Polytechnic Institute

MICHIGAN.

AGRICULTURAL COLLEGE—Michigan State Agricultural College
 ANN ARBOR—University of Michigan
 COMSTOCK—Comstock Mfg. Co.
 HOUGHTON—Michigan College of Mines

MINNESOTA.

MINNEAPOLIS—University of Minnesota

MISSISSIPPI.

AGRICULTURAL COLLEGE—Miss. Agricultural & Mechanical College

MISSOURI.

ROLLA—Missouri School of Mines and Metallurgy
 ST. LOUIS—Washington University

MONTANA.

BOZEMAN—Montana College of Agriculture & Arts

NEBRASKA.

LINCOLN—University of Nebraska

NEVADA.

RENO—Nevada State University

NEW HAMPSHIRE.

HANOVER—Dartmouth College (Prof. Robt. Fletcher, Director)

NEW JERSEY.

HOBOKEN—Stevens Institute of Technology
 NEWARK—Indicator Instruction Co. (A. C. Lip-
 Newark Technical School pincott, Mgr.)
 NEW BRUNSWICK—Rutger's College
 PRINCETON—Princeton University

NEW MEXICO.

SOCORRO—New Mexico School of Mines

NEW YORK.

ITHACA—Cornell University

NEW YORK CITY.**Borough of Brooklyn.**

BROOKLYN—Polytechnic Institute of Brooklyn
 Pratt Institute, 215 Ryerson

Boroughs of Manhattan & Bronx

NEW YORK—Columbia University, W. 116th,
 nr Amsterdam av

Cooper Union, Cooper sq
 Manhattan College, 131st & Broadway
 New York University, University Heights
(END OF NEW YORK CITY.)

POTSDAM—Clarkson School of Technology
 SCHENECTADY—Union College
 SYRACUSE—Syracuse University
 TROY—Rensselaer Polytechnic Institute

NORTH CAROLINA.

CHAPEL HILL—University of North Carolina
 MOUNT PLEASANT—N. C. College of Agriculture & Mechanical Arts

NORTH DAKOTA.

GRAND FORKS—University of North Dakota

OHIO.

ADA—Ada College of Engineering
 CINCINNATI—University of Cincinnati
 CLEVELAND—Case School of Applied Science
 COLUMBUS—Ohio State University
 GRANVILLE—Denison University

OKLAHOMA TERRITORY.

STILLWATER—Oklahoma Agricultural & Mechanical College

OREGON.

CORVALLIS—Oregon State Agricultural College

PENNSYLVANIA.

ALLEGHENY—Western University of Pa.
 CHESTER—Penna. Military College
 EASTON—Lafayette College
 GROVE CITY—Grove City College (Dept. of Mech. & C. E.)
 HAVERFORD—Haverford College
 LEWISBURG—Bucknell University (Dept. of C. E.)
 MEADVILLE—Allegheny College
 PHILADELPHIA—Drexel Institute, Chestnut c
 Franklin Institute, 15 S 7th S 32nd
 University of Pa., S 34th c Woodland av
 PITTSBURG—Carnegie Institute of Technology, Forbes st
 SCRANTON — International Correspondence Schools
 SOUTH BETHLEHEM—Lehigh University
 STATE COLLEGE—Penna State College
 SWARTHMORE—Swarthmore College

RHODE ISLAND.

KINGSTON—R. I. College of Agr. & Mech. Arts
 PROVIDENCE—Brown University

SOUTH CAROLINA.

CLEMSON COLLEGE—Clemson College
 COLUMBIA—University of South Carolina

SOUTH DAKOTA.

BROOKINGS—Agricultural College of S. D.
 RAPID CITY—State College of Mines
 VERMILLION—University of S. D.

TENNESSEE.

KNOXVILLE—University of Teun.
 NASHVILLE—Vanderbilt University
 SEWANEE—University of the South

TEXAS.

AUSTIN—University of Texas
 COLLEGE STATION—Agriculture & Mechanical College of Texas
 WACO—Taylor University

UTAH.

SALT LAKE CITY—State School of Mines,
University of Utah

VERMONT.

BURLINGTON—University of Vermont & State
Agricultural College
NORTHFIELD—Norwich University

VIRGINIA.

BLACKSBURG—Virginia Polytechnic Institute
CHARLOTTESVILLE—University of Virginia
HAMPTON—Hampton Normal & Agr'l Institute
University of Hampton (Colored School)
LEXINGTON—Virginia Military Institute
Washington & Lee University

WASHINGTON.

PULLMAN—Washington Agr'l College & School
of Science
SEATTLE—University of Washington

WEST VIRGINIA.

MORGANTOWN—University of West Virginia

WISCONSIN.

MADISON—University of Wisconsin

CANADA.**NOVA SCOTIA.**

FREDERICTON, NEW BRUNSWICK—Univer-
sity of New Brunswick
WINDSOR—King's College

ONTARIO.

KINGSTON—Royal Military College
School of Mining
PETERSBOROUGH—Mechanics' Institute
TORONTO—Knox College
School of Practical Science
University of Trinity College
Upper Military College

QUEBEC.

MONTREAL—College of the Jesuits
McGill University
QUEBEC—Laval University

**Engineering & Surveying Instru-
ments**

Aloe, A. S. Co., 513 Olive, St. Louis, Mo.
Anderson Supply Co., Seattle, Wash.
Bausch, Lomb, Saegmueller Co., Rochester, N. Y.
Berger, C. L. & Son, 37 Williams, Rox., Boston,
Mass.
Brandis, F. E. Sons & Co., 814 Gates av., Brook-
lyn, N. Y.
BUFF & BUFF MFG. CO., Jamaica
Plain, Boston, Mass. (See adv. top of next
column)

BUFF**TRANSITS & LEVELS**

Are the best made in the whole world
without exception.

BUFF & BUFF CO.,
Send for Catalogue. **BOSTON, MASS.**

Cole, H. C., 82 N. High, Columbus, O.
DIETZGEN, EUGENE CO., 181 Mon-
roe, Chicago, Ill. (See adv. index & branch
offices, end of book)
EDDY, GEO. M. & CO. (Measuring
Tapes), 345 Classon av, Brooklyn, N. Y.
(See adv. below)

George M. Eddy & Co.
MANUFACTURERS OF

MEASURING TAPES

OF ALL KINDS,

345 to 353 Classon Ave.
BROOKLYN, N. Y.

ELLIOTT, B. K. CO., 108 6th, Pitts-
burg, Pa. (See adv. index, end of book)
Erker Bros., Optical Co., 608 Olive, St. Louis,
Mo.
Gurley, W. & L. E., Troy, N. Y.
Hanna Mfg. Co., 380 River, Troy, N. Y.
Heller & Brightly, 1122 Spring Garden, Phila-
delphia, Pa.
Keuffel & Esser Co., 127 Fulton, New York
KOLESCH & CO., 138 Fulton, New
York. (See adv. below)

**Kolesch & Co.,**

138 FULTON ST., NEW YORK,
Successors to
F. Eckel, formerly Blunt & Co.,
Manufacturers of

Surveying Instruments

Catalogue on Application.

Kopp, Geo. L., & Co., 538 Smithfield, Pitts-
burg, Pa.
Kurtz, Langbein & Swartz, 606 Wood, Pitts-
Lallie Surveying Instrument & Supply Co., Den-
ver, Colo.
Manasee, L. Co., 88 Madison, Chicago, Ill.
Pfister, Herm., 428 Plum, Cincinnati, O.
Pittsburg Instrument & Mch. Co., Pittsburg, Pa.

Post, Fred'k Co., 218 S Clark, Chicago, Ill.
QUEEN & CO. (Inc.), n. w. e 8th &
Arch, Philadelphia, Pa. (See adv. index,
end of book)
Randolph, T. F. Co., 232 E. 5th, Cincinnati, O.
RUCKERT, LOUIS, Merchants La-
cled bldg, St. Louis, Mo. (See adv. below)

L. RUCKERT,

Manufacturer and Importer of

**Drawing Materials, Surveying and
Mathematical Instruments,**

317-321 Merchants Laclede Bldg.,
ST. LOUIS, MO.

Schmidt, Fred. A., 516 9th, Washington, D. C.
Schwencke, Kirk & Co., 227 Fulton, New York
index, end of book
Seelig, R. & Son (Mfrs.), 170 Mad'n, Chicago, Ill

SOLTMANN, E. G.

(Also everything for the Architect, En-
gineer & Draughting Room), 125 E 42d, New
York. (See adv. below)

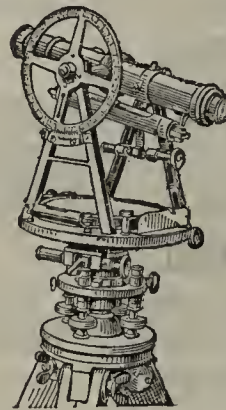
Stackpole & Bro., 41 Fulton, New York
Ulmer, J. C. Co., 224 Champlain, Cleveland, O.
WEBER, F. & CO., 1125 Chestnut,
Phila., Pa. (See adv. below)
Williams, Brown & Earle, 918 Chestnut, Phila-
delphia, Pa.

F. WEBER & CO.,

PHILADELPHIA,

St. Louis,

Baltimore.

**Engineering
Instruments**

Draftsmen's and
Engineers' Supplies,

Drawing Tables

of every description.

Drawing, Tracing and
Blue and Brown Print
Papers, etc.

Second-hand Transits. Levels Bought,
Sold or Exchanged.

REPAIRING PROMPTLY DONE.

Send for Illust. Catalogue.



E. G. SOLTSMANN ESTABLISHED 1880 **DRAWING MATERIALS**
125 E 42ND ST. NEXT TO THE GRAND CENTRAL STATION NEW YORK N.Y.

BLUE PRINT and BROWN PRINT PAPERS.

PRICES FOR LARGE PRINTS UP TO 4½ X 12 FEET IN ONE PIECE.

BLACK PRINTS 3c. SQUARE ON PAPER FOOT BLACK OR BLUE PRINTS ON CLOTH 5c. SQUARE FOOT

"SEPPIAN" Brown Print NEGATIVES made from TRACINGS.

"SEPPIAN" POSITIVES.

TRACINGS RECEIVED BY EXPRESS IN THE MORNING, CAN BE EXPRESSED ON SAME DAY WITH LARGE QUANTITIES
OF PRINTS, BOUND IN SETS, READY FOR THE CONTRACTORS.

WISSLER, A., INSTRUMENT WORKS,
501-9 W. Washington av., St. Louis, Mo. (See
adv. below)

A. Wissler Instrument Works,

Manufacturers of

**Engineering, Surveying, Mining
and Scientific Instruments,**

**Second-Hand Transits and Levels,
Engineers' Supplies.**

**501-9 W. WASHINGTON AVENUE,
ST. LOUIS, MO.**

Established 1820.

Young & Sons (Mfrs.), 43 N. 7th, Philadelphia,
Pa.

Engineers (Architectural & Structural Consulting)

Albright, Francis H., 16 S Broad, Phila., Pa.
Bouscaren, G., City Hall, Cincinnati, O.
Brooks, Jas. E., 35 B'way, New York
Buddington, J. E., 82 Church, New Haven, Conn.
Cooper, Theodore, 35 B'way, New York
Field, Wm. P., Prudential bldg, Newark, N. J.
Fletcher, Owen Duvall Co., Indianapolis, Ind.
Glafey & Plagwitz, Frick Bldg., Pittsburgh, Pa.
Hardy, Geo. F., 309 B'way, New York
Hensen, J. H., 1264 Monadnock blk, Chicago.
Hill, Geo., 12 W 40th, New York Ill.
Hood, R. H. Co., 299 B'way, New York
Kaufman, Gustave, 1 B'way, New York
Lewis, C. B. (Iron & Steel Inspection), Rose
bldg, Cleveland, O.
Lietz, A. Co., 422 Sacramento, San Francis-
co, Cal.

Lowinson, Oscar, 18 E 42, New York
McCarthy, P. A., 1518 Deloss, Indianapolis, Ind.
McKim, Alex. Rice, 1193 B'way, New York
Main, Thos. B., Stephen Girard Bldg., Philadel-
phia, Pa.

Marsh Bridge Co., Des Moines, Ia.
Modjeski, Ralph (Designing, Inspection & Con-
struction of Bridges, Viaducts, Trestles,
etc.), 1742 Monadnock blk, Chicago, Ill.
Morse, Edwin K., Farmers' Bank bldg, Pitts-
burg, Pa.

Moulton, Mace (Member A. S. C. E. 1884), 150
Nassau, New York

OSBORN ENGINEERING CO., Osborn
Bldg., Cleveland, O., & Land Title Bldg.,
Philadelphia, Pa. (See adv. index, end of
book)

Purdy & Henderson, 78 5th av., New York, &
Monadnock Block, Chicago, Ill.
Raeder & Wood (Railroad Shops, Warehouses,
Factories, Mills, etc.), Great Northern Bldg.,
Chicago, Ill.

Raque, Philip E., 280 B'way, New York
Reidpath, Roht. J., Mutual Life Bldg., Buffalo,
N. Y.

Riggs & Sherman Co., The Nasby, Toledo, O.
Roberts, E. P., 242 W 53d, New York
Roberts, Frank C. & Co., Real Estate Trust
Bldg., Philadelphia, Pa.

RUSSEL WHEEL & FOUNDRY CO.,
Detroit, Mich. (See adv. index, end of book)

Sample & Marshall, Colorado bldg, Washington,
D. C.

SCAIFE, WM. B. & SONS CO., 221 1st
av, Plttsburg, Pa. (See adv. index, end of
book)

Schuerman & Brown, Nashville, Tenn.
Scofield, E. M., House hldg, Pittsburgh, Pa.

Shankland, E. C. & R. M. (Designers of Build-
ing Bridges & Foundations), The Rookery,
Chicago, Ill.

Shaw, Edw. S., 12 Pearl, Boston, Mass.
Smith, Augustus, 149 B'way, New York

Somerville Engineering Co., Frick Bldg., Pitts-
burg, Pa.

Stebblings, W. L., Monadnock blk, Chicago, Ill.

STEWART, JAS. & CO., Lincoln
Trust Bldg., St. Louis, Mo. (For complete
list of branch offices see end of book)

Swensson, Emil, Frick Bldg., Pittsburgh, Pa.
Wardle & Yeager, Cedar Rapids, Ia.

Wilkins & Davison, Westinghouse Bldg., Pitts-
burg, Pa.

**WORDEN-ALLEN CO. (Consulting &
Contracting), P. O. Box 528, Milwaukee,**
Wis. (See adv. index & branch offices, end
of book)

*Engineers (Blast Furnace)

(See also Blast Furnaces & Steel Works Con-
struction)

OSBORN ENGINEERING CO., Osborn
Bldg., Cleveland, O., & Land Title Bldg.,
Philadelphia, Pa. (See adv. index, end of
book)

*Engineers (Bridge Designing)

(See also firms marked with star under Steel
Structural Work)

OSBORN ENGINEERING CO., Osborn
Bldg., Cleveland, O., & Land Title Bldg.,
Philadelphia, Pa. (See adv. index, end of
book)

Engineers (Cement Plants)

Michaelis, Dr. W., Jr., Schiller bldg, Chicago,
Ill.

OSBORN ENGINEERING CO., Osborn
Bldg., Cleveland, O., & Land Title Bldg.,
Philadelphia, Pa. (See adv. index, end of
book)

Cowham Engineering Co., Jackson, Mich.
Pettehone & Ireland (Also Coal Breakers, Coal
Handling Machinery, etc.), Wilkes-Barre, Pa.
SMITH, F. L. & CO., 39 Cortlandt,
New York. (See adv. index, end of book)
Spackman, Henry Engineering Co., 42 N 16th,
Phila., Pa.

Engineers (Chemical)

Bowman, Walker (Consulting & Expert Advice),
39 Cortlandt, New York
Comhustion Utilities Co. (also Comhustion, En-
gineers & Designers of Lime Kilns), 60 Wall,
New York
GAS POWER CO. (also Gas & Com-
hustion, 60 Wall, New York. (See adv. in-
dex, end of book)
Ohio Testing Laboratory, Board of Trade bldg,
Columbus, O.
Peppel, S. V., 1534 N. High, Columbus, O.

Engineers (Civil, Mechanical & Mining)

Star (*) indicates members of American So-
ciety of Mechanical Engineers. Home of the
Society, 12 W 31st, New York. Non-members
have M. E. following names in parentheses
without indicating star. All other Engineers
under this head, as well as those indicated
thus: "& M. E.," "Consulting," "Contract-
ing," "City," "Mining," "Surveyors," etc., in
the parentheses following their names, may be
classed as Civil Engineers.

(See also Engineers, Electrical; also Engineers.
Stationary; also Engineers, Hydraulic; also
Mill Engineers.)

ALABAMA.

ANNISTON—Hunter, J. D., City Hall
AUBURN—*Wilmore, John J. (Prof. Alabama
Poly. Inst.)

BIRMINGHAM—Brown & Joy, First National
Bank bldg

Byrne, Patrick (Consulting), 1909 1st av
Carter, J. R., Allen bldg

Coleman, W. R., First National Bank bldg
Elliott, R. H., Potter bldg

Fitzhugh, G. D., Allen bldg
Ford, Bacon & Davis (Consulting), 2104½
Gwin Bros., 221 N 21st 1st av

Hamilton, T. A., 1127 S 12th
Hargreaves, H. W., 1130 N 26th

Haskell, A. W. (Mining), The "Woodward"
Kelley Co., First National Bank bldg

Kendrick, Julian, City Hall
Montgomery, J. A. (Consulting), First Na-
tional Bank bldg

Moore & Smith (Consulting), First National
Motley, J. C., Chalfoux hldg Bank bldg

Parkes & Wheelock, Steiner hldg
Parkes & Wheelock (C. E.), 20 Steiner hldg

Phelps, Wm. B. & Co. (M. E. & Chemists)
Reilly, A. J. (Consulting), 1916½ Morris av

Roberts & Schaeffer Co (Consulting & Con-
tracting C. E. & M. E., First National
Bank bldg

Rust Engineering Co. (C. E.), First National
Bank bldg

Schoel, Herman (Consulting & Contracting
M. E. & C. E.), 113½ N 21st

Turner, H. A. (C. E.), Chalfoux bldg
Wilson & Alber (C. E.), First National Bank
bldg

Zell, Robert Ross & Co. (Consulting M. E.),
First National Bank bldg

FLORENCE—Negley, N. S. (City)
GADSDEN—Fitzgerald, P. H.

MOBILE—Benz, Rudolph (C. E., Architect), Ma-
sonic Temple

Buck, J. Ernest, 110 W Francis
Hall, Chas. A. (M. E.), 1st National Bank
hldg

Hazelhurst, J. N.
Nicol, Bauer & Foster (C. E.), Bank of Mo-
bile hldg

Nicol, Thos. W. (N. W.), St. Joseph & Adam
Percy, Chas. B., 811 Augusta

Ross, D. M. N. (City), Municipal bldg
MONTGOMERY—Ausfeld & Blount (C. E., M.
E. & Architect)

Ford, David F. (City)
Smith, B. B. (C. E. & Architect)

NEW DECATUR—Fenny, Geo. C.
SELMA—Peacock, G. H. (M. E.)

Smith, Julian
Peacock, W. R. (M. E.)
Thomas, W. W. (M. E.)

TALLADEGA—Wheeler, G. O., East

ALASKA.

NOME—Gihson, Arthur
Wright, E. R.

SITKA—Gurnee, Clinton

ARIZONA.

BISBEE—Smith, F. W. (Mining)
CLIFTON—King, Jacob (Mining)

DOUGLAS—Heller & Wright (Mining)
FLORENCE—Sieboth, Alfred C. (Mining)

NOGALES—Wallace, H. Vincent (Consulting)
PHOENIX—Barry, Andrew

Farrish, W. A. (City)
Patrick, H. R.

PRESCOTT—Bernhart, A. D. (Mining)
Blauvelt, Harrington (Mining)

Claypool, W. M. (C. E., M. E.)
Defty, W. E. (Mining)

Hagott, Giraud, Smith Co. (Consulting)
Hesse, J. F. (Mining), Bashford hlk

Merritt, Wm. H. (Mining)
Ward, Howard R. (Mining)

TOMBSTONE—Hoar, F. W. (Mining)
TUCSON—Boggs, Edw. M.

Burgess, Jno. D. (Consulting, Mining)
Cory, H. T.

Hughes, Thomas (Consulting, Mining)
Von Brxlehen, Chas. (Mining)

Williams, Percy (Mining)

ARKANSAS.

HELENA—Purvis, C. H.
Wright, Francis H.

LITTLE ROCK—Buchanan, E. C., 1300 B'way
Conway, Francis H. (city), Court House

Duncombe, L. S., 1113 E Markham
Fordyce, J. R. (M. E.), 2115 B'way

Haney, J. H., 117 Centre
Hartman, Theodore, City Hall

Hildebrand, Jas. B.
Martin, H. G., 100 W Markham

OSCEOLA—Ayers, W. E.
PINE BLUFF—Bocage, C. W.

Cook, Edwin, 205½ Main
York, R. (C. E.)

POCOHONTAS—Miller, J. C.

CALIFORNIA.

ALAMEDA—Chapman, Isaac N. (C. E.), 2225
Poyzer, W. R. (city), City Hall Pacific

ANAHEIM—Kellogg, H. C.
Kleffer, Stephen E.

ANGELS CAMP—Purdy, E. H. (M. E.)
AUBURN—Warner & Graham

BAKERSFIELD—Dixon, W. L.
Evans, J. L. (city)

BERKELEY—Esselstyn, J. N. (Mining)
Huggins, Chas. L. (City), 2313 Channings

BUNICIA—DeMerritt, H. L.
CHICO—McGann, James

CORONADO—Wash, W. D.
CRESCENT CITY—Harvey, Harry

DOWNEY—Pemberton, J. N.
EUREKA—Herrick, F. E.

Herrick, Rufus
Leutell, J. N.

Smith, A. T.
FAIRFIELD—Eager, E. N.

FRESNO—Eastwood, J. S.
Mauel, Louis

Shepard, J. C., 1152 J
Swartz, A. C., Fiske bldg

Tielman, J.

GALT—Harvey, F. H. (Consulting)
 GILKOY—Campbell, C. L.
 GRASS VALLEY—Alderman, S. J
 Uren, C. E.
 GREENWATER—Kennedy & Lass (Mining)
 HAYWARDS—Clement, L. M.
 Russell, T.
 Warren, S. D. & Son
 HOLLISTER—McCray, V. T.
 JACKSON—Brown, J. A.
 LODI—Lillie, Harry.
 LOS ANGELES—Alsop Eng. & Const. Co. (C. E. & M. E. & Consulting E.)
 Andrus, E. C. (C. E.), 1626 W 12th
 Angelo, Henry R. Co. (C. E.), 706 Braly bldg
 Auchincloss, W. S. (C. E.), 333 S Grand av
 Ayres, E. S. (M. E., C. E.), 256 S Spring
 Brown, Henry J. (C. & M. E.), 106 W 3d
 Boxall, Hugh L. (M. E., Consulting, Hydraulic), Braly bldg
 Brett, H. E. (M. E.), 114 N Spring
 Brooks, H. A. (M. E.), 605 Trust bldg
 Campbell, D. W. (M. E. & C. E., Consulting, Hydraulic), 208 Tajo bldg
 Catey, S. F. (M. E.), 105 E 1st
 Coates, R. G. (Mining), Bryson blk
 Cobb, E. S. (Consulting & M. E.), Pacific Electric bldg
 Coleman, R. Prewitt (Mining), Union Trust bldg
 Comstock, T. B. (Consulting & Mining), 533 Stimson bldg
 Connell, J. F. (Consulting E.), Stimson bldg
 Copeland, Clem. A. (Consulting), Citizens' National Bank bldg
 Crowley, E. D. (Consulting), Pacific Electric bldg
 Darlington, N. E. (C. E.), Conservative Life bldg
 Davis, W. B., 129 W. 2d (Mining E.)
 Day, St. John (Consulting), Braly bldg
 De Kalb, Courtenay (Mining), Wilcox bldg
 Bowne, A. B. (Mining), 207 S B'way
 Duryea, O. C. (M. E.), H. W. Hellman bldg
 Dwight, F. L. (Mining), Wilcox bldg
 Easton, L. C. (C. E.), United States Engineer Office
 Eddie Engineering Co. (Mining & M. E.), 129 W 2d
 Edmiston, R. H. (Surveyor), 222 Trust bldg
 Ehlers, P. H. (C. E.), 106 W 3d
 Fales, W. R. (Mining), 355 S B'way
 Fletcher, C. R. (Mining), Stimson bldg
 Forman, Chas., Jr., Grant bldg
 Friel, L. (C. E., also Hydraulic, etc.), Stimson bldg
 Gilbert, E. G. (C. E.), 1809 Oak son blk
 Glenn, Fred. (Mining), Citizens' National Bank bldg
 Goldworthy & Sons (Mining), 217 S B'way
 Goodale, O. E. (M. E., C. E. & Architect), O. T. Johnson bldg
 Greenleaf & Riveroll (M. E., Mining), H. W. Hellman bldg
 Grundy, Frederick (Mining), Henne bldg
 Hall, L. O. (C. E.), 253 S B'way
 Halladay, D. S., Grant bldg
 Harris, C. R. (M. E.), 421 W 5th
 Harron, R. & McCone (M. E.), 164 N Los Angeles
 Hawgood, Harry (Consulting), H. W. Hellman bldg
 Healey, C. T., 342 N Main man bldg
 Henue, Chris. (Mining & M. E.), Henne bldg
 Higginson, E. A. (M. E.), Wilcox bldg
 Hinsdale & Phelps, Douglas bldg
 Howard, W. D. M. (Consulting E.), Lankershim bldg
 Jackson, F. H. (Mining), 129 W. 2d
 Johnson & Catey (hydraulic, etc.), 808 E 8th
 Jones, Chas. C. (Consulting & Mining), Pacific Electric bldg
 Jory, H. J. (Mining), 126 W. 3d
 King, F. E. (Mining), 211 Stimson blk
 Kinslingbury & Tweedy (Mining), Wilcox bldg
 Koebig, A. H. (Consulting), H. W. Hellman bldg
 Lanterman, F. D. (C. E.), 207 S. B'way
 Large, I. N. (Mining), Bradbury bldg
 Levering, J. H., (C. E.) Byrne bldg
 Levitt, A. F. (Mining) Trust bldg
 Lewis, Clayton (Consulting), Byrne bldg
 Lippincott & Parker (Consulting, Hydraulic, etc.), 1117 Union Trust bldg
 Loback, A. A., 114 N Spring
 Loomis, C. B., (Consulting) Byrne bldg
 McCarty, C. C., (C. E., Surveyor), 150 N Alta
 McLean & Probert (Consulting & Mining), Bradbury bldg
 McLennan, J. F. (Mining), 1062 Orange
 Macloed, Malcolm (M. E.), 602 S Alvarado
 Marsh, H. E. (M. E.), 227 S Spring
 Martin, R. B., Stimson bldg
 Mauran, J. R. (U. S. Engineer), Bradbury bldg
 Miller, R. G. (C. E.), 256 S Spring bldg
 Mohr, P. F. (Consulting), Byrne bldg
 Moody, Burdett (C. E.) F. P. Fay bldg
 Moore, Chas. C. & Co. (& M. E.), 321 Trust bldg
 Moyle, E. H. Engineering & Equipment Co. (Consulting, Mining & M. E.), 607 N Main

Mudd, S. W. (Mining), Union Trust bldg
 Munch, Robert, Wilson bldg
 Nissen Engineering Co. (Consulting, M. E.), Lankershim bldg
 Olmsted & Gillelen, Grant bldg
 Osgood, J. A. (C. E.), H. W. Hellman bldg
 Pacific Engineering Co., 106 W 3d
 Paige & Co., Byrne bldg
 Parker, O. K. (C. E.), Union Trust bldg
 Phelps, F. I., Douglas bldg
 Pillsbury, G. E. (Consulting), L. A. Inter-urban R'y
 Pope, C. S., Pacific Electric bldg
 Postel & Waddingham (C. E.), 208 Tajo bldg
 Probert, Frank H. (Consulting, Mining), Bradbury bldg
 Purcell, G. (consulting, hydraulic, etc.), 412 Wilcox bldg
 Reeve, S. B. (C. E.), H. W. Hellman bldg
 Robbins, Frank (Mining), Bradbury bldg
 Roberts, Wm. B., 106 W 3d
 Rogers, A. P. (Mining), Bradbury bldg
 Rowan, V. J., Stimson bldg
 Ruxton, A. G., Stimson bldg
 Sanders, C. H. (C. E., Marine), Merchants Trust Co. bldg
 Scowden, L. A. (Mining), Germania bldg
 Secor, W. E. (Mining), Pacific Elec. bldg
 Severance, E. D., Cham. of Commerce bldg
 Shults, C. J. (C. E.), O. J. Johnson bldg
 Siebert, F. J. (Consulting), Braly bldg
 Sivyier, L. D. (Mining), 438 S Olive
 Solano, Alfred, Stimson bldg
 Spencer, G. H. (Mining), Braly bldg
 Stafford, Harry F. (City), 23 City Hall
 Stevenson, H. J., 125 Temple
 Stocker, H. J., Copp bldg
 Storror, Samuel (Mining), Braly bldg
 Streeter, L. P. (M. E.)
 Sumner, C. R., Byrne bldg
 Swaine, E. L. (Consulting), H. W. Hellman bldg
 Thompson & Gilliam (Mining), Union Trust bldg
 Tracy Engineering Co. (M. E.), Union Trust bldg
 Trask, F. E. (Mining Eng.), Citizens' Nat. Bank bldg
 Tuttle, G. W., Mason bldg
 Trent, L. C. (Consulting, Mining), 3201 Pacific av
 Tweedy, G. A. (Mining), Wilcox bldg
 Van der Heuvel, Wm. (M. E.), Merchants Trust Co. bldg
 Viole, Felix, Wilson bldg
 Wade & Wade (Mining), 318 E 1st
 Wheeler, E. T., Pacific Electric bldg
 Wheeler, Hy. K. Co. (Mining), Union Trust bldg
 Wilcox, W. J., 302 W Washington bldg
 Wiley, W. H. (Mining), 367 S Bonnie Brae
 Wiseman, Philip (Mining), 408 S Spring
 Wright, Edw. T. (Hydraulic, C. E., & Surveyor), 608 S Main
 Youngsworth, Leo V. (City Surveyor)
LOS GATOS—Rockwith, W. E.
MARTINEZ—McMahon, T. A.
MERCED—Dikeman, H. E.
 Martin, C. D.
 Ostrander W. H.
 Stoneroad, W. P.
MONTEREY—Little, W. C.
NAPA—Buckman, O. H.
NATIONAL CITY—Copeland, F.
 Howard, O. E.
NEVADA CITY—Englebright, W. F.
 Tomkins, O. A. (M. E.), Union
OAKLAND—Abadie, Emile R. (Consulting, Mining)
 Badger, T. N., 1008 B'way
 Curtis, Stillman W.
 Fogg, G. E., 1004 B'way
 Garthwaite, E. H. (Mining)
 Gray, J. W., 923 Linden
 Hoffmann, Ross R., (Mining)
 Holmes, Geo. L. (Consulting)
 Huntley, D. B. (Mining)
 Janin, Stebbins & Smith (Consulting, Mining)
 Morgan Bros., 611 19th
 Noyes, Wm. F. (Mining)
 Ralston, John C. (Mining)
 Smith, J. G.
 Turner, F. C. (city) 276 Sta. Clara
ORANGE—Bathgate, Wm.
 Halsted, J. T.
PALO ALTO—Eckart, W. R., Jr. (M. E.)
 Hamilton, E. G.
PASADENA—Allin, T. D., 101 E. Walnut
 Clapp, W. B., 205 S Fair Oaks
 Del Mar, Algernon (Mining), 351 Mary
 Dewey, E. P., 40 E. Colorado
 *Land, Frank, 710 So. Orange Grove av
 Ramel, H., City Hall
 Rhodes, H. W., 822 E California
 Sedgwick, J. W., 194 E Euclid
 Stevenson Bros, 192 W Colorado
 Wright, E. N. (C. E.)
PASO ROBLES—Elliot, Van R.
 Spurrier, G. F.
PETALUMA—Frost, W. S. (city)

PLACERVILLE—Crawford, J. J.
 Kimball, G. W.
 Price, D. H.
 Sexton J. E. (mining)
POINT LOMA—Sederholm, E. J. (M. E.)
 Tyberg, O. (C. E.)
POMONA—Sanders, W. H. (city)
RED BLUFF—Healy, Lucien B.
 Lunning, Wm F. (County Surv)
REDDING—Batzell, Alfred
 Brackins, Sam R.
 Greaves, J. M.
 Zoellin, E. A.
REDLANDS—Chamblin, W. N.
 Ford, Isaac
REDWOOD CITY—Cloud, Joseph
SACRAMENTO—Boyd, Jos. C. (city), Court House
 Browning, C. Jr. (C. E.), 2107 22d
 Goldwaite, E. W., 312 O
 Graves, T. W., 312 O
 Jenkins & Wells, 33d c Magnolia av
 Marshall, U. S., 312 O
 Naylor, E. W. (Consulting & M. E.), 209 J
 Pierson, J. C. (city), 326 J
 Stewart, R. W., 1316 16th
 Winn, Adolphus G., 1317 24th
SALINAS—Davies, D. F.
 Garver, J. H.
SAN BERNARDINO—Finkle, F. C. D.
 Koebig, A. H.
 Pope J. B.
SAN DIEGO—Capps, A. V.
 Capps, E. M.
 Jenks, Arthur W. (Mining, Metallurgist)
SAN FRANCISCO—Abner Doble Co. (Consulting)
 ing), 200 Fremont
 Adams, Arthur L. (Hydraulic, etc., Consulting C. E. & M. E.), Kohl bldg
 Adams, W. J. (mining), 508 California
 Addison, A. Sydney (Consulting), 301 Market
 Alberger, W. C. (Consulting C. E.), 315 California
 American-Hawaiian Engineering & Construction Co. (M. E.), Rialto bldg
 American-Pacific Construction Co. (Civil Contracting), 536 Polk
 Baker, Frank J. & Co. (also hydraulic, etc.), 325 Montgomery
 Balcomb, J. B. (mining, hydraulic, consulting, etc.), 130 Union sq av
 Bandman, Chas. J. (mining), Monadnock bldg
 Benson, J. A., 636 Market
 Blood, H. H. (mining), 1103 O'Farrell
 Boss, Martin P. (mining), 2310 Devisadero
 Bradley, P. W. (mining), Crocker Bldg.
 Breite, W. C. (structural), 925 Golden Gate
 Breckenridge, C. E., av.
 Brown, Gilman R. (consulting), 1537 Birch
 Brown, Horace F. (mining), 325 Montgomery
 Browne, Ross E. (consulting, mining, hydraulic, etc.), Nevada blk
 Brownell, Jas. S. (mining), 132 Market
 Burch, Albert (Mining), 1611 Franklin
 California Engineering & Construction Co. (mining, hydraulic, M. E., etc.), 108 New Montgomery
 California Hydraulic Engineering & Supply Co. (also hydraulic, etc.), 305 Market
 Cattell W. A. (consulting), 433 California
 Chadwick & Sykes (C. E.), Golden Gate av.
 Cheyney, Samuel W. (mining), 237 1st
 Christie Hy. P. (M. E.), 193 Fremont
 Christie, Robt., (M. E.), 193 Fremont
 Clement, L. M. (consulting), Crocker Bldg.
 Compressed Air Machinery Co. (M. E.), Jessie
 Cooper, Wm. A., 146 Belvedere & Ecker
 Consumers' Electric Ass'n (M. E.), 917 Webster
 Cory, Meredith & Allen (consulting), Union Trust Bldg.
 Couchot, Maurice C. & O'Shaughnessy (consulting, mining & M. E.), 604 Mission
 Crawford, John J. (mining), 1424 Gough
 Crosseup, I. Oscar (M. E.), 1343 McAllister
 Daniels & Dillman (C. E. & M. E.), Monadnock blk
 Davol, George K. (M. E.), 321 Market
 Denicke, E. (mining), 1300 Golden Gate av.
 *Dickie, George W. & James (C. E., marine), 34 Stewart
 Donegan, Hugh (C. E., surveyor), Monadnock Bldg.
 Dow, George E. Pumping Engine Co. (hydraulic, etc.), 179 1st
 Draper, T. W. M. (mining & consulting), 2298 Baker
 *Eckart, W. R. (consulting), 3014 Clay
 Evans, C. H. & Co. (M. E.), 181 Fremont
 Evans, George H. (Mining), Kohl Bldg.
 Fairchild, George H. (M. E.), 421 Market
 Farey (C. E. & Surveyor), 318 Market
 Ferris, John W. (& M. E.), 320 Sansome
 Friermnth, George H. (C. E.), 1562 Ellis
 Fulton Iron Works (M. E.), 511 Market
 Garratt, W. T. & Co. (hydraulic, M. E., etc.), 138 Fremont
 Globe Engineering Co. (mining), 1937 Market

Gould & Curry Co. (mining & M. E.), 339 Bush
 Grannis, James G. (M. E.), 569 Mission
 Gray, J. A. Co. (M. E.), 18th & Bryan av.
 Gray, Punnett & Hewson (hydraulic, mining & M. E.), 2929 Clay
 Greenwood, Charles P. & Co. (C. & M. E.), Monadnock Bldg.
 Hall, Leon M. (consulting), Kohl Bldg.
 Hammond, J. & Co. (M. E.), 7th & King
 Hancock G. M. (M. E.), 604 Mission
 Harrelson, William H. (M. E.), Union Trust Bldg.
 Haslehurst, W. W. (M. E.), 2122 Folsom
 Hay & Weismann (C. E. & surveyors), 1300 Golden Gate av.
 Heald's Business College (mining), 1451 Post
 Heald's School of Mines & Engineering (mining), 130 Union sq. av.
 Hedger & Drew (consulting), 109 O'Farrell
 Heller, M. J., & Wilson (consulting), St. Francis Hotel
 Hemenway & Miller (M. E.), 511 Eddy
 Henry, G. J., Jr. (M. E.), 127 Main
 Henshaw, Bulkley & Co. (C. E. & M.), 219 Spear
 Hilpisch Carl, 4104 16th
 Hindes, Stetson G. (M. E.), Monadnock Bldg.
 Holman, Wm. L. & Co. (M. E.), 18th & Indiana
 Holmes, George L. (consulting), Rialto Bldg.
 Holmes, Howard C. (consulting), Ferry Bldg.
 Hopps, J. H. (consulting & M. E.), 517 Market
 Hough, Edw. S. (consulting & marine surveyor), 126 Beale
 Hovey, Richard H. (surveyor), 230 Montg'y
 *Hunt, Dillman, Meredith & Allen (Inc.) (hydraulic, M. E., etc.), 202 California
 Hunt, Mirk & Co. (M. E.), 605 Howard
 Jackson, Byron Machine Works (hydraulic, etc.), 411 Market
 Jones, E. C. (C. E.), 2031 Valejo
 Kraus, J. (M. E., hydraulic), Pelton Bldg.
 Leland, W. E. (consulting), 719 Parker av.
 Libby, M. M. (C. E.), Rialto Bldg.
 Leonard, John B. Monadnock Bldg.
 Livermore, N. B. & Co. (also hydraulic, etc.), 604 Mission
 Long & Hoyt Co., Inc. (C. & M. E.), Monadnock bldg
 Ludlow, Jas. T. (M. E.), 330 Market
 McMeen, S. G. (Consulting), 759 Market
 MacKenzie, John H. (Mining), 1611 Franklin
 Mahl, F. W. (M. E.), 431 California
 Mears, Wm. A. (Mining), Kohl bldg
 Miller, Wm. P., 1027 Page
 Milliken Bros., 509 Eddy
 Moffat-Toull Co. (M. E. & C. E.), 779 Market
 Moore, Chas. C. & Co. (Mining), 63 1st
 Moore, Lewis W. (M. E.), 63 1st
 *Moore, R. S. (Supt., Risdon Iron Works)
 Morrin, Thomas (Consulting)
 Morser, Donegan & Co. (C. E. & Surveyor), Monadnock bldg
 Noble, Patrick (Consulting), 421 Market
 North Macblue Co. (M. E.), 324 Main
 Nourse, Chas. F. (Mining), 318 Market
 Orton, C. K. Machine Co. (M. E.), 315 Fremont
 O'Shaughnessy, M. M. (Consulting, Mining, Hydraulic, etc.), 604 Mission
 Oates & Svenson (C. E.), Monadnock bldg
 Occidental Engineering Co. (M. E.), 609 Harrison
 Ough, Jos. M. (Consulting), 305 Market
 Paul, A. B. (Mining), 1032 B'way
 Pelton Water Wheel Co. (Hydraulic, etc.), 19th & Harrison
 Perrin, Geo. H., 507 Montgomery
 Pidge, W. C. (C. E.), 505 G. G. av.
 Price, Thos. & Son (Mining), 509 Commercial
 Radford W. H. (Mining), 2360 Broadway
 Ralston, Wm. C. (Mining), 511 Market
 Ransom, T. W. (Consulting), 628 Montgomery
 Risdon Iron Works (M. E.), Steurt & Folsom
 Root, G. J. (Mining), 1260 O'Farrell
 Schorr, Robert (M. E.), 1157 Ellis
 Schofield Engineering & Constr. Co. (Consulting & M. E.), Kohl bldg
 Small, H. J. (M. E.), 2430 Broadway
 Smedberg, Jos. D. (C. E.), Geary & Van Ness
 Smith, Frank E. & Co. (Consulting), 8th & Townsend
 Stahle, J. F. H. (Surveyor), 632 Market
 Stewart, Wm. H. (Consulting), 216 California
 *Stut, J. C. H. (Consulting M. E.), 217 Sansome
 Sutton, J. G. & Co. (M. E.), 229 Minna
 Symmes, Whitman (Consulting), Monadnock bldg
 Tucker, E. W. & Co. (M. E.), 934 Buchanan
 Union Iron Works Co. (Mining), Potrero
 Union Machine Co. (M. E.), 934 Brannan
 Vandercook, Albert E. (Mining), Nevada blk
 Von Geldern, Otto, Flood bldg
 Wedekind, E. H. (Mining), Crocker bldg

Wellington, Geo. J. (C. E.), Kohl bldg
 Weymouth, Cl. R. (M. E.), 2325 Blake
 Western Engineering & Construction Co. (M. E.), Rialto bldg
 Wieland, C. F. (M. E.), 2d & Folsom
 Willberg, Ernest N. (Surveyor), 2715 Plue
 Williams Bros. (M. E.), Monadnock bldg
 Wilson, C. C. (M. E.), 2240 Dwight Way
 Wiltsee, Ernest A. (Mining), Monadnock bldg
 Wolfrom, F. D. & Co. (M. E.), 150 Beale
 Woodruff Co., The (C. E. & M. E.), 1557 Franklin
 Worthington, Henry R. (M. E.), 148 1st
 Wright, Wm. Q. (Mining), Crossley bldg
 Yard, H. H. (Mining), 1380 Sutter
 SAN JOSE—Barker, C. M. (City), City Hall
 Cornish, Harry L. (Mining), P. O. Box 634
 Fisher, H. B., 17 S 1st
 Herman Bros., Martin's blk
 McMillan & Piper (County), Court House
 Sainsevain, Paul C., 250 Marliere
 Warner, A. B., Div. Eng., C. R. I. & P.
 SAN LUIS OBISPO—Story, Geo.
 SAN RAFAEL—Richardson, Geo. L.
 SANTA ANA—Finley, S. H. (also Hydraulic, Steward, V. L. (City & M. E.) etc.)
 SANTA BARBARA—Collins, G. S.
 Cooper, A. S.
 Harrington, J. R.
 Poett, A.
 SANTA CLARA—Moore, C. E.
 SANTA CRUZ—Wanzer, Horace
 SANTA MONICA—James, Thos. A.
 SANTA PAULA—Orcutt, W. W. (also Hydraulic, etc.), Hardware bldg
 SANTA ROSA—Davis, P. R.
 SILVERTON—Hunt, Ellery W. (C. E., Mining)
 STANFORD UNIVERSITY—Durand, Wm. F.
 Marx, G. R. (M. E.)
 STOCKTON—Atherton, Geo. A., Court House
 Compton, H. T., 232 Main
 SUSANVILLE—Ward, T.
 TULARE—Barber, Emmet
 UKIAH—Rlee & Baltzell
 Von Allen, William
 VENTURA—Hare, E. T.
 Isham, M. B. Laurel
 VISALIA—Fowler, A. T.
 Smith, C. D.
 WATSONVILLE—Lewis, J.
 WEAVERVILLE—Lowden, W.
 WHITTIER—Maxsom, G. W.

COLORADO.

ASPEN—Freeland, Francis T. (M. E.) (Gen. Mgr., Durant Mining Co.)
 Nyce, George W. (C. E. & M. E.)
 Paxton, Joseph (M. E.)
 Wilcox, H. A.
 BOULDER—Armstrong, F. C. (C. E. & Mining)
 Chase & Hall (Mining)
 Drummond & Rogers, 1039 Pearl
 Teal, Geo. W. (Mining & Consulting)
 BRECKENRIDGE—Cramer, Fred. O.
 McDonald, W. H.
 McElroy, John G. (Mining & C. E.)
 Rlekseker, L. E.
 Smyth, N. V. V.
 Walker, Geo. B. (Mining Surveyor)
 Whipple, S. C.
 CAMP BIRD—Wolf, Harris J. (Mining)
 CANYON CITY—Hall, L. C. (City)
 Milton, Chas. L.
 Smythe, W. R. (C. E.)
 Funk, Walter A. (Mining)
 CENTRAL CITY—Lowe, Henry P.
 Peregrine, J. D.
 Rank, S. A. (Mining & Surveyor)
 Rickard, Forbes
 Schneider, Geo. W.
 Todd, L. C. (Mining)
 COLORADO SPRINGS—Case, E. W. (C. E.)
 Deveraux, H. K. (Mining), Mining Ex. Bldg
 De Vore, E. H., 20 El Paso Bank bldg
 Dickerman, A. L., Dickerman bldg
 Doble, Robt. M. (Consulting)
 Hewitt, G. C. (Mining)
 Hills, Fred., 21 E Bijou
 Mollie Gibson Con. M. & M. Co. (M. E.), P O Box 668
 *Palmer, C. E., Hagerman bldg
 Reid, H. J. (Hydraulic, etc.)
 Riebling, H. F. A. (Metallurgist)
 Sawyer & Garstin (Mining & C. E.), 113 E Smit, E., 33 Hagerman Pike's Peak
 Warner, A. B. (Div. Eng., C. R. I. & P.)
 Weston, Wm., 9 P. O. bldg
 Woodside, W. P., 41 Hagerman bldg
 CRIPPLE CREEK—Ames, Edwin E. (Mining Surveyor), Old Mining Exch. bldg
 Arnold, R. R. (Mining), 351 E Bennett
 Arthur, Edward P., Jr. (Mining), Old Mining Exch. bldg
 Brewster, J. K., Jr., 304 M
 Chamberlin, John R., Farley-Lampman bldg

Colwell, Alfred B., 27 Mining Exch. bldg
 Countryman & Jaquith (Mining), 445 E Bennett
 Crosley, F. W. (C. E., Hydraulic), Mining Exch. bldg
 Fink, F. W., 27 Roseberry
 Finn, Oliver B., 371 Ben
 Haff, Edward L., Mining Exch. bldg
 Harris, Wm & Crosley (Mining), Mining Exch. bldg
 Hills & Willis, Mining Exch. bldg
 Jones & Arnold, Neall bldg
 Kennedy & Arnold, 111 N 3d
 Leffingwell, W. H., 25 Mining Exch. bldg
 Lloyd & Co., Geo. W., Nat'l Annex
 Luckraft, 445 Bennett
 Miller, E. E., 105 E Carr
 Moore, Chas. J., 60 Welty
 Osborne, Arthur H., 105 Carr
 Smith, James T., Old Mining Exch. bldg
 Strickland & Von Phul
 Toll, R. H. (Mining)
 DELTA—Dikeman, J. M. (Mining)
 DENVER—Adams, Wilbur E. (Mining), 409 Ernest
 Anderson, G. G. (Consulting & C. E.), Equitable bldg
 *Baker, Frank D. (Consulting), 506 Boston bldg
 Baker, G. R. (C. E.), Equitable bldg
 Bancroft, Geo. J. (Mining), Exchange bldg
 Boehmer Max (& Mining), Jacobson bldg
 Bonnevie, Nils Co. (Consulting & M. E.)
 Brace, W. C. (Mining), Equitable bldg
 Brandes, J. F. (Mining), Majestic bldg
 Brunton, D. W. (Mining), Boston bldg
 Bulkley, Frank (Mining), Equitable bldg
 Butler, Chauncey E. (Mining), 3253 Quitman
 Caldon, J. D. (Consulting & Mining), 508 17th
 Cazin, Franz (Consulting M. E.), Jackson bldg
 Carpenter, F. R. (Mining), Equitable bldg
 Carpenter, P. R. & Sons (Mining), Equitable bldg
 Chase, Edwin E. (Mining), Equitable bldg
 Chauvenet, Regis (Mining), Equitable bldg
 Collins, G. E. (Mining), Boston bldg
 Colvin, C. K. (Mining), 1751 Humboldt
 Comstock, C. W. (Mining), Boston bldg
 Cory, R. J. (Mining M. E.), Equitable bldg
 Cramer, Fred. C. (Mining), Exchange bldg
 Curtis, L. B. (Mining), 936 Marion
 Curtis, Loren B. (C. E., Hydraulic), Commonwealth bldg
 *Davis, Wm. C. (Mgr., F. M. Davis, Jr., Iron Works Co.), 8th & Lorimer
 Deems, Chas. W. (Mining), 205 E, 20th
 Denver Engineering Works Co. (Mining), Consulting & M. E., Blake c 30th
 Dewey, John S. (M. E.), Kittredge bldg
 Doveton & Prington (Mining), 217 McPhee bldg
 Draper, M. D. (Mining), 1541 Lafayette
 Duncan, Lindsay (Mining) C. E.), 1935 B'way
 Duvall, Z. T., 3048 Franklin
 *Einfeldt, Chas. M. (Engr. in Charge), Equitable bldg
 Enterprise Engineering & Constr. Co. (M. E.), 15th & Stout
 Farish, Geo. E. (Mining), 835 Logan av
 Farish, J. B. (Mining), Cooper bldg
 Farish, Wm. A. (Mining), 2112 E, 17th
 Finch, J. W. (Mining), Jacobson bldg
 Foreman, D. H., Coronado bldg
 Foster, Ernest Le Neve (Mining), Masonic Temple
 Frenzel, A. B. (Consulting), Equitable bldg
 Fnelser, C. M. (Mining), 1750 Calif
 Gibson, Geo. B. (Mining), 835 Logan av
 Godshall, L. D. (Mining), 1671 Fillmore
 Graves, Abner (Mining), Bank bldg
 Hampson, C. M. (M. E.), 501 17th
 Hardinge, H. W. (Mining), Cranmer bldg
 HEWITT—Cartarphen Co. (Consulting), 221 McPhee bldg
 Hewitt, E. A. (Mining), 1132 15th
 Holman, J. W. (Mining), 231 Cooper bldg
 Lakes, Arthur (Mining), Barth blk
 Lamont, Eugene M. (Consulting Mining), 568 Clarkson
 Lowe, Henry P. (Mining), Equitable bldg
 Lund, P. H. (Mining), Temple Court
 McCann, D. J. (C. E.), Majestic bldg
 McCine, J. A. (mining), Majestic Bldg.
 McCune, A. J. (C. E.), Commonwealth Bldg.
 McFadden, Geo. B. (mining), 1543 Champa
 McNeil, John (mining), Equitable bldg.
 Marks, J. H. (C. E.), 535 Barclay Bldg.
 Mathez, Auguste (mining), Cooper Bldg.
 May, John G. (mining), 17th & Curtis
 Miller, David G. (mining), Equitable Bldg.
 Miller, G. W. (mining), 1622 Broadway
 Milliken, W. B. (mining), 1407 Josephine
 Milner, T. J. (C. E.), Majestic Bldg.
 Minard, F. H. (mining), Equitable Bldg.
 Moore, Charles J. (mining), Kittredge Bldg.
 Morley, F. H. (mining), McPhee Bldg.
 Noble L. S. (mining), Equitable Bldg.
 Ober, G. F. (mining), 306 Exchange Bldg.
 O'Brian & Rhoades (consulting), Nassan Bldg.

Odenheimer, John M., Railroad Bldg.
Olsen & Kinnear (Elec. & M. E.), Crammer Bldg.
Page, Wm. Byrd (mining), Equitable Bldg.
Parker, R. A. (mining), Boston Bldg.
Patterson, G. Hutton (mining), 232 S. 14th
Patrick C. G. (C. E.), Commonwealth Bldg.
Peck, Ira F. (mining), Kittredge Bldg.
Peck, Wm. A. (mining & C. E.), 1643 Champa
Plate, H. R. (mining), Majestic Bldg.
Prichett, C. W. (mining), 2735 Boul
Puttner & Knappe (mining), 1220 18th
Richard, Forbes (mining), Equitable Bldg.
Rocky Mountain Exploitation Co. (mining),
1726 Broadway

Rogers, E. L., 1643 Champa
Rollandet, G. J. (M. E.), Jacobson Bldg.
Rule, W. M. (mining), 1165 Evans
Sault, S. O. (C. E.), 1529 S. Emerson
Schlessinger, T. S. (mining), Quincy Bldg.
Schrotter, Geo. A. (mining)
Schwartz, Theo. E. (consulting & mining),
Colorado Bldg.

Searing, L. (consulting, mining & M. E.), 901
E. 10th av.
Schoey, Jesse (mining), 3424 Colfax av. "B"
Sehben, Edw. W. (mining), Exchange Bldg.
Sethman, George H. (M. E.), McPhee Bldg.
Snedaker, James, A. (mining), Equitable Bldg.
Snell, E. S. (consulting & C. E.), Barclay
Bldg.

*Stearns-Rogers Mfg. Co. (consulting M. E.),
1724 California
Stearns, T. B. (mining & M. E.), 1720 Cali-
fornia

Thorne, W. E. (hydraulic & mining), McPhee
Bldg.

Tyler, Sydney W. (mining), Exchange Bldg.
Ulrich, J. C. (consulting, hydraulic, etc.),
Coronado Bldg.

Van Cortlandt, E. N. (mining), Cooper Bldg.
Vandemoer, John (mining), 1230 Ogden
Vickery & Foster (C. E. & surveyors), 220
Mack Bldg.

Warwick, A. W. (mining), 208 McPhee Bldg.
Welles, A. M. (civil & mining), Equitable
Bldg.

Western Engineering Co., Jackson Bldg.
Wilkes, Gilbert & Co. (consulting M. E.),
435 17th

*Wilkinson, Thos. L. (mining), Boston Bldg.
Williams, H. D., Kittredge Bldg.

Wilson, Harold (mining), P. O. Box 243
Wilson, Nat., 979 Broadway

Witham, Jos. D. (mining), Equitable Bldg.
Wrigley R. F. (mining), Charles Bldg.

Wuensch, Alfred F. (mining expert & con-
sulting), 726 Kittredge Bldg.

Yont, C. A. (M. E.), P. O. Box 165
Young, R. E. (C. E.), Mercantile Bldg.

DURANGO—Burwell, Blair
Harper & Harper
Jones, Finney
Tiffany, J. E. (mining)

FLORENCE—McFall, A. B.
FORT COLLINS—*Lawrence, J. W. (M. E. &
McAnelly, E. C. (C. E.)

Rist, Wm.
Searing, E. De F. (M. E.), 616 S. Howes

GEORGETOWN—Marsh, George B.
Morris, Chas. H.

GLENWOOD SPRINGS—Rosenberg, Theo
Trumbor, W. H.

GOLDEN—Berthoud, E. L.
Small, H. B.

GOLDFIELD—Adams, J. R.
GRAND JUNCTION—Haskell, Chas. W.

GREELEY—Baker & Walter
Stimson, L. L.
Walters, R. T.

GUNNISON—Alkine, O. H.
Dofflemeyer, J. A.

IDAHO SPRINGS—Stephens & Barbour
Underhill, James
Ventress, A. J.
Wiley, W. H.

LA JUNTA—Lewis, F. T.

LAS ANIMAS—Beach, C. W.
Beach, Frank

LEADVILLE—Boehmer, Max, 501 Harrison av
Holland, Geo., Union blk

Jaycox, T. W., 8 Chicago blk
McNair, F. J., Quincy blk

Platt, Howard, 431 Harr
Smith, W. L. G., Chicago blk

Thielen, Alfred, 19 Boston

LONGMONT—Calkins, C. C.
MONTROSE—Sawyer, E. B.
Winters, J. C.

OURAY—Biddlecom, F. L.
Russell, H. H.
Whinnerah, Richard

PUEBLO—Hathaway, E. W., 109 New Pope
Helander, A. H. (mining), 303 Jackson

Knight, C. C., 401 Central
McKenna, J. B. (mining), 2 Pitkin pl.

SALIDA—Spray, S. J.

SILVERTON—Dyson, James
Hollis, R. W.

Holt, M. B.
Hunt, E. W.

Kennedy, G. A.
Trippe, T. M.

TELLURIDE—Frenzel, A. R.
Gibbs & Greenwood

Gilkerson, H. G.
Lay, H. C.

Litchfield, A. B.
Townsend, Arthur R. (mining)

TRINIDAD—Knickerhocker, C. H.

VICTOR—Bodfish & Atherton, 11 Doyle blk
Davis & Byler, Bank

Sharp, Chas.
Stevens, E. A., 106½ 4th

Worcester, S. A. (consulting M. E.)

CONNECTICUT.

ANSONIA—Bowen, David D. (M. E.), Farrell
Hall, James S. (City Engineer) Foundry

Schumaker, J. S. (M. E.), 81 High
Wheeler, Joel M. (& M. E.), 82 N Cliff

BERLIN—Bradley, Dan'l E.
Greenwood, A. H.

Sage, Geo. H.
Stearns, Elmer W.

BLOOMFIELD—Duncan, Edgar T.
BRANFORD—*Hammer, Alfred E. (Supt., Mal-
leable Iron Fittings Co.)

BRIDGEPORT—Berrian, R. M. (Eng. Dept. N.
Y., N. H. & H. R. R. Co.)

Bullard, D. B. & E. P. (M. E.), 525 Broad
Chamherlain & Newman (M. E., consulting)

Leach, W. H., Jr. (M. E.), 355 Noble av.
Palmer, Wm. B., 1022 Main

Parkhurst, F. A. (C. & M. E.), 113 E. Wash-
ington av.

Riker, A. L. (M. E.), 1416 Fairfield av.
Schofield & Ford, 167 State

Smith, F. W., Jr. (M. E. & Patent Expert),
46 Cannon

Starr & McKenna (& surveyors), 211 State
Sterling Paul (C. E.), 1462 Park av.

*Webster Wm. R., Jr. (Dept. Supt. Bridge-
port Brass Co.), Crescent av., Junc. Wil-
lard

BRISTOL—McLean, George H.
McLean, Geo. H.

CLINTON—Weaver, Halsey A.
COLCHESTER—Williams, Danl T.

DANBURY—Bacon, John W.
Brown, Charles O.

*Burchard, Anson W., 368 Main
Pearce, C. E.

DANIELSON—Nichols, C. H.
Pike, William K.

DERBY—*Brewster, Frank H. (Supt. & Eng'r,
Birmingham Iron Foundry)

Brinsmade, Daniel S. (C. E. Hydraulic)
Eckhart, M. E.

Huson, W. S., 12 Cottage
Johnson, George A., 90 Main

Smith, G. E.
EAST BERLIN—Benson, O. (C. & M. E.)

*Jarvis, Chas. M. (Vice Pres. American
Bridge Co.)

EAST HARTFORD—Olmsted, C. Henry
FARMINGTON—Potter, Danl. C.

Wadsworth, A. R.
GREENWICH—Gregory, J. Louis

Minor, Sheldon E.
Peck, Leon F.

Rungee, Edw. J.
HARTFORD—*Allen, Francis B. (Second Vice
Pres., Hartford Steam Boiler Ins. & Insp.
Co.)

Allen, Julian S., 853 Prospect av.
Ayres, Henry W. (Hydraulic), 66 State

Baker, Herbert C. (M. E.), 53 Magnolia
Barker, Wm. H.

Belden, Clifford H. (C. E.), 217 Laurel
*Billings, Chas. E. (M. E.), 142 Russ

Bond, Geo. M. (& M. E.), 141 Wash'n
Buck, Henry R., City Eng. office, 800 Main

Bunce, Chas. H., 902 Main
Burt, Luther W., 39 Pearl

Bush, Edw. W., 650 Main
Clark, Herbert G., 800 Main

Clark, Roscoe N. (C. E. Dept. of Sewers)
Claussen, Ed. E. (M. E.), 904 Main

Cole, Clinton L. (Consulting C. E.), 650
Main

Cook, Asa S. (M. E.), Colt's West Armory
Corson, Wm. R. (Consulting), 36 Pearl

Crawford, Norman McD. (Consulting, C. E.),
36 Pearl

Desjardines, B. M. (Consulting M. E. &
Patents), 926 Main

Ehbets, C. J. (M. E. Patent Expert), 14 Ver-
non

*Honiss, W. H. (M. E. & Patent Expert),
315 Pearl

*Hunter, J. S., 15 Wash'u
Johnson, F. G. Co. (Inc.) (M. E.), 172 Pearl

*Johnson, Wm. D. (C. E., Architect), 26
State

*Jones, Horace K. (Mechanical Supt, Corbin
Screw Corporation), 35 Spring

Lee, Harry K. (Consulting & Contracting M.
E.), 225 State

Lihby & Blinn (Consulting), 164 State
Loomis, Frank W. (Surveyor), 231 Sigourney

*Lorenz, Wm. A., 315 Pearl
*Luther, Flavel S. (Pres. Trinity College)

Merritt, Joseph (M. E.), 315 Pearl
Miller, G. W. (Consulting), 1643 Champa

Mortson, Geo. (M. E.), 904 Main
*Murphy, Edw. J. (Consulting, Hartford
Steam Boiler Ins. & Insp. Co.), 650 Main

National Machine Co. (M. E. & Special
Machinery), 135 Sheldon

New England Engineering Co., 7 Haynes
Pickering, W. H. & Co. (M. E.), 110 Com-
merce

Roach, Christopher J. (M. E.), 870 Broad
Snell, T. C. B., 36 Pearl

*Souther, Henry (Consulting, Hydraulic,
etc.), 440 Capitol

Spencer & Washburn, 80 Pearl
Sponsel, Chas. W. (Consulting, C. E. & M.
Stone, E. M., 49 Pearl E), 36 Pearl

Svenson, Chas. (M. E.), 54 Woodbine
Veeder, Curtis H. (M. E.), 20 Sargent

*Wolcott, Henry A. (Supt. Whitlock Coil
LAKEVILLE—Pettee, Wm. E. Pipe Co.

MERIDEN—Clark, W. S. (City)
Lane, John S.

Pierson, S. C. (City)
MIDDLETON—Augur, E. P. (City)

Bishop, Geo. (all Hydraulic, etc.), 129 Main
Blatchley, C. H. (Consulting, Mill & Struc-
tural Steel Building & Bridges)

Hodge, Geo. O. (M. E.), The E. H. V. Co.
Wilcox, Ralph M. (City)

MILFORD—Clark, Vincent B.
NAUGATUCK—Ham, George C.

NEW BRITAIN—Brown, R. S. (C. E. & M. E.),
41 Emmons pl

*Burgess, Chas. M., 358 W. Main
Cadwell, Wm. H. (C. E., Surveyor & Ar-
chitect), 213 Main

Chase, Chas. F. (Berlin Construction Co.)
Hart, H. S. (M. E.), R. & I. Mfg. Co., 48
Oldershaw, F. H. (City) Park pl

Penfield, Geo. W. (Sewer Commissioner), 213
Slater, Frank (Consulting) Main

Stanley, A. W. (M. E.), Stauley Quarter
Unkelbach, M. J.

NEW HARTFORD—Smith, Robert R.
NEW HAVEN—Amrhn, G. X.

Barney, Samuel E. (Prof. C. E. Yale Uni-
*Bigelow, Geo. W., 60 Lloyd versity)

Blair, Clarence M., 14 Gilbert av
Blatchley, Wm. J., 219 Blatchley av

Buddington, J. S. (Consulting), 82 Church
Burwell, Merritt W. (M. E.), 219 Water

Cahn, Alex., 82 Church
*Du Bois, A. J. (Prof. C. E., Yale Univer-
sity)

Elm City Engineering Co. (M. E.), 61 Orange
Everit, Edw. H., S. N. E. Tel. Co.

Fitton, W. H. Beech Co. (M. E.), 440 Elm
Gladding, Henry H. (Ass't City Engineer)

Hadley, A. T. (Pres. Yale University)
Harte, Chas. R., 305 State

Hill, Albert B. (Consulting, Hydraulic, etc.).
Huntton, Louis D. (Consulting), Yale Uni-
versity

Ingersoll, C. M. (Chief Eng'r R. R. Office)
Jackson, J. Fred'k (C. & Construction E.)
(City Hall)

Jenks, Richard P. (M. E.), 865 Chapel
Jones, Walter A., 42 Church

Kelly, C. W. (City), City Hall
Kelsey, D. J. (M. E.), 66 Center

Lockwood, E. H. (Instr. Sheffield Scientific
School, Yale University)

Marshall, Waldo H. (C. & M. E.), L. S. &
M. S. Ry.

Mason, W. (M. E.), Winch'ter Rop. Arms Co.
Nettleton, Edw. S. (City), City Hall

Nichols, Chas. H. (Consulting M. E.), 424
Oshorn, G. Edw. (M. E.) George

Pratt & Boltwood (Mining), 139 Orange
*Richards, Chas. B. (Prof.), Sheffield Scien-
tific School, Yale University)

*Rowlands, Amory E., 413 Chapel
Ryder, Ely M. T. (Constructing Eng'r C.
Ry Co.)

Sargent, H. B. & Co. (M. E.), 247 Church
Sellers, Phillip (M. E., Mills), 82 Church

Spencer, W. T. (Division Engineer), R. R.
Office hldg.

Sperry, A. Wm. (C. E. & Surveyor), 82
Church

Tracy, J. C. Prof. (Inst. C. E. Yale Univ.)
*Waldron, Fred. A. (Supt., Power Plant,
Yale & Towne Mfg. Co.)

Verrill, G. E., 42 Church
Wiggin, E. W. (Ass't Bridge Engineer, N. Y. N. H. & H. R. R. Office)
NEW LONDON—Adams, Henry (M. E.)
Daboll & Crandall (& Surveyors)
Darrow, Cortland R., 98 State
New England Engineering Co. (M. E.)
Richards, W. H. (City), City Hall
Whiton, L. E. (M. E.), 190 Howard
NORFOLK—Brown, Edmund (Supt. & Eng. of Norfolk Water Co.)
NORWALK—Hoyt, Samuel N., Jr. (City)
Morehouse, Ferris S., 106 Wash'n, S. N.
Rider, Jos. B., 7 High
Truesdell, Walter E.
Wood, C. N. (City), 91 East av, N.
NORWICH—Chandler & Palmer
Pitcher, Geo. E., 49 Shetucket
Plummer, Frank J. (M. E.), Am. Wood Working Machinery Co.
POMFRET—Sabin, Ralph J.
PUTNAM—Clark, Edgar
RIDGEFIELD—Seymour, W. O.
ROCKVILLE—McKnight, John T. (City)
Rockville, M. M. (M. E.)
SALISBURY—Pettee, W. E.
SOUTHINGTON—McKenzie, Theo. H. (Sanitary & Hydraulic)
SOUTH MANCHESTER—Adams, Julius L. (Chief Eng'r H. M. & R. T. Co.)
Cheney, Richard O., Jr.
SOUTH NORWALK—Hill, E. (M. E.), The Norwalk Iron Works
STAMFORD—Cochrane, Wm. B.
*Emery, Albert H., 312 Main
Hathaway, Benj. F., 19 Relay pl
Nash, Paul
Parsons, Harold A. (City)
Pierce, W. B., Stamford Saving Bank bldg
Towne, F. J. (C. & M. E.), General Sup. Yale & Towne Mfg. Co.
Wardwell, F. S. (M. E.)
STRATFORD—Morehouse, Wm. C. (C. E.)
Wilcoxson, Albert (C. E.)
THOMASTON—Eddy, Chas. W.
TORRINGTON—Norton, Wendell P. (M. E.), Shelton, W. M. P. Hendey Mach. Co.
WALLINGFORD—Davis, Henry L.
McLean, Alex. J.
WATERBURY—Cairns, Robert A. (Hydraulic, Sanitary & City), 9 Leavenworth
Crane, Wm. E. (Consulting)
*Johnson, Edw. W. (Supt.) City Water Works, 114 Benedict
*Linch, Edw. P., Citizens' Bank bldg
Patton, Arthur J.
Smith, W. G. (C. E.), 51 Leavenworth
*Thompson, Hugh L. (Consulting & Contracting, Brass & Copper Plants)
Welton, N. J. (also Hydraulic)
WEST HARTFORD—Alderson, A. B. (Town Engineer)
Beach, Chas. E.
Hall, A. Clark
Johnson, Wm. E.
Peck, Ermon M.
WEST HAVEN—Forbes, H. De B.
Gagel, Edw.
Heitman, Adrian C., Jr.
Nason, Frank L. (Mining)
Palmer, G. E.
WILLIMANTIC—Card, Huber D.
Fenton, Robt. (City)
Mitchell, Robert E.
WINSTED—Bradford, G. M.
Hulbert, Robert S.

DELAWARE.

MIDDLETOWN—Burtis, H. B.
WILMINGTON—Hatton, T. C. (C. E.)
Hope & Tissell
Hutton, Herbert W.
Kimmey, Wm. A., 511 King
Price, Francis A.
Weston, Warren B.

DISTRICT OF COLUMBIA.

WASHINGTON—Allen, Herbert, F. L. (Consulting) Colorado bldg
Associated Representatives (Consulting), Home Life bldg
Averill, Frank L., Colorado bldg
Benton, W. H. (& Surveyor), 1405 F, N. W.
Berrall, Jas. (& Surveyor), Bond bldg
Bostrom, A. O. (C. E. & M. E.), 531 7th, N. E.
Boswell, R. A. (Consulting & Constructing), 907 G, N. W.
Boyle, E. R. (C. E.), 3207 R, N. W.
Brady, John (Consulting M. E.), 306 9th, N. W.
Calvert, Chas. P. (Surveyor), 709 E Capital
Cassel, E. D. (C. E.), 615-617 14th, N. W.
Chittenden, Geo. B., 3401 17th, N. W.
*Cole, Winthrop (Bureau Steam Engineering, Navy Dept.), 1220 Conn. av, N W
Colonna, B. A., 140 B, N E

Columbia Engineering Co. (M. E.), 626 Col-
Coyle, John M., 932 K, N W orado bldg
Dill, H. G. & L. J. (C. E.), 1410 G, N W
Douglas, W. J. (C. E. distr. bldg., Cliff-
bourne)
Dowling, John F. (Mining), 902 F, N W
Ettinger, R. L. (Consulting M. E.), (South-
ern Ry.)
Hardesty, F. S. (Consulting C. E.), Home
Life bldg
Forsberg, Gustav W. (Consulting M. E.),
526 13th
Herman, Bernard (C. E.), 1912 Calvert,
N W
Howell, David J. (& Surveyor), 605 12th,
N W
*Knight Bros. (Patent Lawyers & Experts),
McGill bldg
Latimer, Wm. J. (Surveyor), 27 Harrison,
Anacostia
*McFarland, Walter A. (Supt., Water De-
partment, D. C.), District bldg
Metz, Walter R. (M. E.), 606 F, N W
*Morton, Geo. L. (Principal Examiner), R
261, U. S. Patent Office
Murray & Murray (M. E.), Bond bldg
*Perry, Jas. H., 245 N Capitol
Phillips, R. H., 1410 H, N W
Pohlers, Geo. F. (C. E.), 1433 L, N W
Powell, J. E. (C. E., M. E. & El. E.), Office
Superv. Archit. U. S. Treas. Dept.
Power, Thos. W. (Consulting & Construct-
ing M. E.), 902 F, N W
Pressey, Henry A., 1416 F, N W
Pressey & Weller (C. E. & Hydraulic), 1416
F st, N W
Pushaw, Chas. P. (Mining), 1314 Vt. av,
N W
Sample & Marshall (Consulting Structural),
1321 G, N W
Schroeder, G. G. (M. E.), 1310 G, N W
Scott, Albert H. (Mining), Munsey bldg
*Simpson, Geo. R. (Principal Examiner Ry.
& Rolling Stock Div.), U. S. Patent Office
Smith, Octavius C. (C. E.), 201 D, N E
Sunderland Bros., Wash. Sav. Bank bldg
Taylor, Daniel F., 605 12th, N W
*Upton, Wm. B. Co. (Consulting C. E. &
M. E., Electric Railway, Power & Light-
ing Plants & Underground Conduits for
Same), Washington Loan & Trust bldg,
902 F, N W
Weller, Francis R., 1416 F, N W

FLORIDA.

JACKSONVILLE—Burwell & Hillyer (Consult-
ing & Contracting), Blum bldg
Ellis, R. N., 24 E 2d
LeBaron, J. Francis (also Hydraulic),
Smith bldg
Merrill-Stevens Eng. Co. (M. E.), 140 E Bay
Overstreet, Walter, 18 Market
Prioleau, Philip (City)
KEY WEST—Dobarganes, R., 1022 Duval
OCALA—Morehead, James
PENSACOLA—Ausfeld & Blount (& M. E.)
Siebeck, D. L., 1027 E. Gadsen
ST. AUGUSTINE—Thompson, E. B.

GEORGIA.

ATHENS—Stanley, T. P.
ATLANTA—Baylor, Henry B., 20 Bedford pl.
Bertsch, John C. (Refrigerating Engineer),
Cascade av., West End
Clayton, R. M. (City), 344 Capitol av.
*Coon, J. S. (Prof. Mech'l Engineering, School
of Tech.)
Crafts, G. H., 164 Forest av.
Hall Bros. (also hydraulic), 409 Temple ct.
Kauffman, O. F. (C. E.), 1013 Empire Bldg.
Lederle, Frank (M. E.), 160 W. Peachtree
Lopez, David H. (C. E.), 67 Merritts av.
Ludwig & Co. (consulting & constructing),
Empire Bldg.
Murray, F. A., Temple ct.
Nalley-Mansfield Engineering Co. (consulting
& general engineering), Austett Bldg.
Pratt, N. P. Laboratory (chemical & min-
ing), 88 Auburn av.
Richardson, C. L., Equitable Bldg.
Robert, Benj. F. (City), Court House
Robert, C. S. (City & County Surveyor),
Court House
Rogers, Ransom (& surveyor), 626 Empire
Ruff, S. Z., 252 Peoples
Sheffield, O. H. & Co. (also hydraulic), Aus-
tell Bldg.
AUGUSTA—Barbot, L. J., Dyer bldg
Barksdale, R. T., 112 Macarat
Davenport, Albert H. (City), 330 Greene
Davidson, A. H., 330 Greene
Gairdner, Gordon, High n Walton Way
Goodrich, L. F., 115 8th
Reaves, D. V., 118 1st
Wingfield, Nisbet (consulting), City Hall
BRUNSWICK—Penniman, E. A.
COLUMBUS—Boileau, Willard E. (Consulting)

DALTON—Hamilton, H. C.
MACON—Anderson, C. C., 139 Rose
Caldwell, Chas. A., Commercial Bank Bldg.
Haskell, G. O. (M. E.), McCaw Mfg. Co.
Patrick, G. L., 112 Academy
Wilcox, J. W. (City)
ROME—Walton & Wagner
SAVANNAH—Blandford, R. A., Sorrel bldg
Cunningham, Wayne (consulting), Sorrel
Howard, J. W., Police Station Bldg.
Kops, J. de Bruyn, Board of Trade bldg
Thomas, E. J., Court House
Winn, W. J., Police Station
SOLOMON—Norcross Co. (C. E.), Candler bldg
Walker, A. F. (C. E.), Austell Bldg.
Wilkins, Grant, 23 Whitehall
Wilson, Edward, 266 Gordon
Wilson, W. T. B. (Asst. City), City Hall

IDAHO.

BLACKFOOT—Roeder, V.
BOISE—Eagleson, C. G. (City Engineer), City
Hall
Russell, A. S. (M. E.), 818 Franklin
Hesse, E. H., 624 Washington
Randal, T. W., 917 Grove
Stevenson, C. C., 6 Sonno blk
Tompkins, O. H. J., Sherman House
HAILEY—Mandell, F. C.
KELLOGG—Easton, S. A. (mining)
MURRAY—Spalding, E. P. (mining)
NAMPA—Nettleton, E. G.
SILVER CITY—Hulett, Frank
WALLACE—Anderson, G. Scott

ILLINOIS.

ALBION—Brown, Joel
ALTON—Dickson, Geo., McPike bldg
Long, T. M., 2 W 2d
Rutledge, E. E., City Hall
Swift, H. C., 2 W 2d
AURORA—Hallett, H. D.
*McClatchey, A. F., 132 N. 4th
Westmark, H. O. (M. E.), 164 S. River
*Wickhorst, Max Henry (Eng'r of Tests, C.
B. & Q. R. R.)
BATAVIA—Merideth, E. K. (City)
BELLEVILLE—Bosanko, A., 224 N Race
Graner, Louis
Hilgard, G., Court House
Reiss, W. A., 1st Nat'l B'k bldg
BENTON—Langer, Philip
BLOOMINGTON—Bell, Arthur H. Court House
Folsom, Elmer, City Hall
Gray, Rich'd B., 806 S Bun
Keiser, Henry (M. E.)
Mellinsh, Jas. G., Unity bldg
BLUE ISLAND—Link, J.
CAIRO—Thrupp, Wm., 608 Wash'n av (City
Engineer)
CANTON—Bond, Harry
Chandler, Geo. W. (City), City Hall
CARBONDALE—Richart, Fred. W. (M. E.)
CARLYLE—Johnson, Alexander
CARMI—Spencer, M. W.
CARTHAGE—Payne, George W.
Kreig, Frank (M. E.)
CENTRALIA—Roziene
CHAMPAIGN—Baker, Ira O.
Farrant, W. H. (City)
Wallace, J. D. (consulting M. E.), 708 West
Park
CHESTER—Smith, Isaac A. (hydraulic, etc.)
CHICAGO—*Abbott, Wm. L. (Ch. Operating
Eng'r, Chicago Edison Co.), 139 Adams
Adams & Schwab (M. E.), 209 State
Allen, Henry A. (C. E. & M. E.), First Nat'l
Bank Bldg.
Allyn, J. G. (Mining), 81 Clark
Alvord, John W. (consulting), 140 Dearborn
Arnold Co. (C. E., M. E. & Constructing for
Complete Electric Power Plants), 181
La Salle
Arnold, B. J. (M. E.), Borland Block
Artinstall, Samuel G., Postal Tel bldg
Ashley, Burton J. (also Hydraulic, etc.), 164
Dearborn
*Bartlett, Geo. B. (Chief Draughtsman, Il-
linois Steel Co.)
Brauboch, Louis, 13 N Jefferson
Brass & Southard (M. E.), 218 La Salle
Breckinridge, W. L. (Chief Engineer, C. B.
& Q. R'y), 209 Adams
Bredt, Jno. M. (Mining), 163 Randolph
Bremer, Herman H. (Surveyor), 100 Washing-
ton
*Brill, Geo. M. (Consulting), Marquette bldg
Browning Engineering Co., Monadnock blk
Bugbee, Loren (M. E.), 520 Monadnock blk
Burdick, Chas. B., 140 Dearborn
Buskirk, Theo., 125 Monroe
Byllesby, H. M. & Co. (Consulting), Ameri-
can Trust bldg

Caldwell, George G. (M. E.), 204 Dearborn
 Calhoun, Sterling W. (M. E.), 54 N Clinton
 Canterbury, Richard C., 153 La Salle
 Carlson, G. H. (Surveyor), 115 Dearborn
 Carman & Hartman (M. E.), Railway Ex.
 Carter, Byron B. (Consulting M. E.), 1644
 Monadnock blk
 *Carter, Henry W. (Patent Lawyer), 1261
 Monadnock blk
 *Chamberlain, Paul M. (Prof. Mech'l En-
 gineering, Lewis Inst.)
 Chapman, Chas. A. (Consulting M. E.), Mar-
 quette bldg
 Chicago Engineering & Constructing Co.
 (Consulting, Steam & Electric Railways,
 Bridges, Buildings, etc.), 77 Jackson boul
 Christie & Lowe, 171 La Salle
 Clausen, G. L. (Surveyor), 112 Clark
 Cohen, Isidore, Monadnock blk
 Cohe, Alexander, 143 Dearborn
 Collins, Emmous (Consulting M. E.), 43 Ful-
 ton
 Condrou & Sinks Co., 1442 Monadnock blk
 Coolidge, Winthrop (Mining), 138 Jackson
 Cooley, Lyman E., 21 Quincy boul
 Cotton, Walter H. (Consulting M. E.), 171
 Oakwood boul
 Cowles, W. L. & Co., 9 Jackson boul
 Curtis, Walter W. (M. E.), 324 Dearborn
 *De Puy, C. E. (Ass't Prof. Mach. Con-
 struction, Lewis Inst.)
 Dickman & Mackenzie (Mining, Enr. Chem-
 ists & Metallurgists), The Rookery
 Dixon, Geo. Edw. (M. E.) (Pres. Geo. E.
 Dixon & Co.), 169 S Canal
 Doolittle, W. W. (M. E.), 519 S Canal
 Dorr, Geo. W., 7040 Stewart av
 Douglas, Frank (M. E.), 5039 Lake av
 Drake, Frank (Mining), 131 La Salle
 Earl, Mark A., 6423 Greenwood av
 *Elliott, W. E. (Supervising Eng'r, Good-
 rich Trans. Co.), ft Michigan av
 Ellison, Lewis M. (M. E.), Monadnock blk
 Emerson, Harry L., 138 Washington
 Engineers' Equipment Co. (Consulting M.
 E.), 95 Washington, Chicago, Ill.
 Evans, Chas. H. (C. E. M. E.), 145 Van
 Buren
 Ewing, Wm. B., 138 Washington Boul
 Fergus, Wm. L. & Co. (M. E.), 279 Dear-
 born
 Feartado, R. S. (C. E.), 77 Jackson boul
 Filer & Stowell Co. (M. E.), 204 Dearborn
 Finley, George I., 5457 Jefferson av
 Fishburn, Randolph E. (Mining), 34 Clark
 Flora, Ellsworth E. (M. E.), 204 Dearborn
 Forsyth, Robert (Consulting M. E.), The
 Rookery
 *Forsyth, Wm., 1660 Monadnock blk
 Foster, Chas. F. (Consulting M. E.), Man-
 hattan bldg
 Foster & Herrington (Surveyors), 92 La
 Salle
 Fowler, Sam'l S. (Mining), 34 Clark
 Frandsen, Nils P., 109 Randolph
 Franklin, William A. (Mining), 108 La Salle
 Fridstein, Monadnock blk
 Gibson Chas. B. (Mining), 81 Clark
 Glendenning, John H. (Consulting M. E.),
 77 Jackson boul
 Goltz, Wm. (M. E.), 127 Fulton
 Gordon, Edw. B. (M. E.), 484 62d
 Greeley-Howard Co. (Surveyors), 112 Clark
 Green Engineering Co. (M. E.), 112 Clark
 Hall, Chas. F. (M. E.), 45 Fulton
 *Hanna, Elmer E., 820 Elston av
 Harding, Abner C. (M. E.), 3155 Rhodes av
 Harris, Frederick S. (Mining), 9 Jackson
 Heine, Heinrich, 79 Dearborn boul
 Herr, Heiro B. (Consulting), Monadnock blk
 Herrington, John W. (Surveyor), 92 La
 Salle
 Heuser, Jno. H. (M. E.), Monadnock blk
 Hill, Cicero D. (Chief Engineer), City Hall
 Holcomb, Clifford A. (M. E.), 240 La Salle
 Hollis, Henry L. (Mining & Metallurgist),
 164 Dearborn
 Hoover & Mason (M. E.), 9 Jackson boul
 Hornung, J. C. (M. E.), 125 Monroe
 Hotchkiss, Chas. W., 407 La Salle
 Howe, Wm. F. (M. E.), 134 Van Buren
 Huber, Gustav M. (M. E.), 315 Dearborn
 *Hughes, Wm. M., 280 La Salle
 Hunt, R. W. & Co. (Consulting & Testing),
 The Rookery
 Huyette, Wm. S. (M. E.), 125 Monroe
 Illinois Engineering Co. (Consulting M. E.),
 315 Dearborn
 Jarvis, Henry & Co. (M. E.), 9 Jackson boul
 Jeffrey Mfg. Co. (M. E.), 939 Monadnock blk
 Jewell, Wm. C. (C. E.), Cable bldg
 Johnson, Jay L. & Co. (Surveyor), 90 La Salle
 Johnson, Wm. L. (Mining), 119 Monroe
 Jones, Wm. D. (Surveyor), 140 Dearborn
 Keller, C. L., 1616 Monadnock blk
 Kimmman, M. T. (M. E.), 84 La Salle

Klohs, S. F. (M. E.), Monadnock blk
 Klotz, Robert & Co. (M. E.), 109 Randolph
 Knox Engineering Co. (M. E.), 279 Dearborn
 Knstman, Robt., 84 Adams
 Lee, William, 207 City Hall
 Leonard, A. G. (M. E.) (Gen'l Mgr., Union
 Levings, Chas., 6430 Yale Stock Yards)
 Libby, Almon C., 84 Van Buren
 Lindrooth, John H. (Surveyor), 428 Cleve-
 land av
 Long, Fredk. H. (Mining), 109 Randolph
 Loring, Frank C. (Mining), Monadnock blk
 Love, Wm. S. (M. E.), Monadnock blk
 Lyons, James W. (M. E.), 275 La Salle
 McCalman, Jno. L., 138 Washington
 McCoy, J. W. (Mining), 125 La Salle
 McGhee, George W. (Mining), 1203 Flour-
 noy
 McLennan, C., 100 Washington
 McMeen, Samuel G. (Consulting M. E.), 100
 Washington blk
 Mabbs, Jno. (Chief Eng'r, Board of Trade
 bldg)
 Macdonauld Engineering Co. (Power plants &
 machinery installation, etc.), Monad-
 Maldaner, Arthur, 119 Monroe nock blk
 Mariner & Hoskins (Mining), 81 Clark
 Masters, Geo. A., 109 Randolph
 Mead, Daniel W. (Consulting M. E., Water
 Works, Power Plants, etc.), First National
 Bank bldg
 Mendius, Carl (Surveyor), 109 Randolph
 Mensch, Leopold J., 324 Dearborn
 Mershon, Russell J. (Surveyor), 1317 W
 105th
 Michaelis, Wilhelm, 109 Randolph
 Miller, K. B. (Consulting M. E.), 1442
 Monadnock blk
 Miller, Martin J. (Mining), 138 Jackson boul
 Modjeski, Ralph (Consulting), Monadnock
 blk
 Mohr, Louis (Consulting M. E.) (Jno. Mohr
 & Son), 32 Illinois
 *Morava, Wensel, 204 Dearborn
 More, Wm. F. (M. E.), 49 S Carpenter
 Morgan, Arthur M. (Consulting M. E.), 169
 Jackson boul
 Morgan Engineering Co. (M. E.), 9 Jackson
 boul
 Morgan, Geo. C. (M. E., Hydranic, etc.),
 169 Jackson boul
 *Morse, Chas. H., Jr., 167 Franklin
 *Murphy, John Z. (Chief Engineer, C. U. T.
 Co.), 444 N Clark
 Noble, Glen S. (M. E.), Security bldg
 Norliu, Fredk. (Surveyor), 112 Clark
 Olsen, Christian O., 2434 Milwaukee av
 O'Neil, John G. (Consulting M. E.), 304 The
 Rookery
 Osgood, Samuel W. (Mining), 164 Dearborn
 Ostenfeldt, Chas. L., 79 Dearborn
 Owen, Ira J. (M. E.), 259 S. Clinton
 Pearce, Wm. H. (M. E.), 269 Dearborn
 Peck, Staunton B. (M. E.) (Chief Eng'r,
 Link Belt Mach. Co.), 39th & Stewart av
 Perry, Thos. O. (M. E.), 5328 Prairie av
 Peycke, Armand H. (M. E.), Monadnock blk
 Philbrick, Marvin E. (M. E.), 42 W Jackson
 boul
 *Pierce, Richardson & Neiler (Consulting),
 315 Dearborn
 Pitkin, Julian H. (M. E.), 16 Fullerton av
 Platner, Warton, 100 Washington
 *Pond, Frank H., 279 Dearborn
 Postel & Linn (M. E.), 279 Dearborn
 Powell, Ambrose V., 138 Washington
 Pratt & Atkins, 1001 Monadnock blk
 Purdy & Henderson (Consulting, Dry Docks
 & Harbor Work, Coal Handling Plants &
 Foundations), 1553 Monadnock blk
 Radford, John A. (M. E.), 204 Dearborn
 Raeder & Wood (Industrial, Architectural &
 Engineering, Plant Design, Construction &
 Equipment), Great Northern bldg
 Ravenscroft, Edward H., Monadnock blk
 Ritter & Mott (Consulting, Steel Structures
 & Foundations), 204 Dearborn
 Roberts, Chas. N. (Surveyor), 97 Clark
 Roberts & Schaefer Co. (Consulting & Con-
 tracting, for Complete Coal Mining Plants,
 etc.), 84 Van Buren
 Roberts, Vertus B. (Surveyor), 97 Clark
 Roemheld & Gallery (M. E.), 138 Wash'n
 Ronneberg, Nathal (Consulting M. E.), 188
 Madison
 Rowe, Samuel M. (Mining), 364 Monadnock
 blk
 Rudolph, Emil (Surveyor), 112 Clark
**SALICH, E. & CO. (Consulting &
 Constructing, Beet Sugar Factories a Spe-
 cialty), Monadnock blk**
 St. John, Arthur G., 9 Jackson boul
 Samuel, Geo. F., City Hall
 Sargent Eng. Co. (M. E.), 119 Monroe
 Sargent & Lundy (Consulting M. E., Electric
 Railway & Power Plants), 9 Jackson boul

Schaub, Julius W., Monadnock blk
 Schott, W. H. (M. E. & Contractor for Elec-
 tric & Steam Power & Lighting Plants,
 Water Works, etc.), 125 Munroe
 Scott, G. W. (M. E.), 188 Madison son
 Seely, Herman B. (M. E.), 218 La Salle
 Shauckland, E. C. & R. M. (Consulting,
 Bridges, Foundations, etc.), The Rookery
 Shields, W. S. (Consulting), 204 Dearborn
 Shone Co. (M. E.), 134 Blackhawk
 Skinkle, Eugene T. (M. E.), 315 Dearborn
 Stebbings, W. L. (Consulting), Monadnock
 blk
 Stevens, Grafton (M. E.), 279 Dearborn
 Stierberg, Louis V., 63 Market
 Sturtevant, Chas. F. (also Hydraulic, etc.),
 279 Dearborn
 Sturtevant, George W., 279 Dearborn
 Sutter, John H., 108 La Salle
 Sweeney, John M. (M. E.), 204 Dearborn
 Tatum, Lawrence W. (Mining), N. Y. Life
 Bldg.
 Theilkuhl, Chas. H. (Consulting M. E.), 1107
 S California av
 Thomas, W. Owen (M. E.), 164 Dearborn
 Trueman, Harmon, The Rookery
 Twyman, Aaron, Pullman Bldg.
 Vanderlip & Gilmore (Consulting), 118 Mon-
 roe
 Vanderlip & Waterman (Surveyors), 163
 Randolph
 Van Valkenburg, Wm. (Surveyor), 160 Wash-
 ington
 Volsard, Emil P., 6321 Rhodes av
 Walker, Frank E., 4454 Woodlawn av
 Webber, Merton L., 138 Washington
 Weiss, Geo. (M. E.), 1007 Ward
 Westinghouse, Church, Kerr & Co. (consult-
 ing M. E.), 171 La Salle
 Wheeler Condenser & Eng. Co. (M. E.), 1137
 Monadnock blk
 Wheeler, W. H. & Co. (M. E. & Hydraulic),
 188 Madison
 *Whittemore, D. J. (Chf. Eng. C. M. & St.
 P. Ry.), 9 Jackson boul
 Williams, Benazette, 153 La Salle
 Williams, Carl B., 153 La Salle
 Williams, Robert F., 84 La Salle
 Williams, Theo. H., 9 Jackson boul
 Wilson, Edw. E. (M. E.), 163 Randolph
 Winn, Chas. (M. E.), City Hall
 Wolf, Albert H., 218 La Salle
 Wolhaupter, Benjamin, 6426 Kimbark
 Wright, Walter B. (M. E.), 164 Dearborn
 Wyllie, Hubert D. (Consulting M. E.), 812
 Monadnock blk
 Young, J. D. (Mining), Monadnock blk
CLINTON—Richardson, David
DANVILLE—Braucher Bros. (M. E.)
 Cottingham, Chas. (& Surveyor)
DECATUR—Burgess, Sullivan
 Loring, Geo. V. (City)
DE KALB—Glidden, Jno. W. (M. E.)
DIXON—Kerch, Chas. V. (City)
 Nesbit, Charles F.
 Shaw, George T. H.
EAST ST. LOUIS—Baker, Chas. L., City Hall
 Harper Bros., 202 E B'way
 Helm, E. S. (& Surveyor), City Hall
 Hutchinson & Jacob, Arcade bldg
 Lewman, E. A. (M. E.)
**EDWARDSVILLE—Sheppard & Morgan (Sur-
 veyors)**
ELGIN—Abell, W. W., House Bank blk
 *Gabriel, Wm. A. (Chief Draughtsman, El-
 gin National Watch Co.)
 *Hunter, Geo. E. (Ass't Sup't, Elgin Na-
 tional Watch Co.)
 Noyes, H. (M. E.), The Spurling
 Price, A. M. (consulting M. E.)
EVANSTON—Jennings, J. T. Wilson, Haskin blk
FREEPORT—Graham, G. W. (City)
 Smith, O. T.
GALESBURG—Allen, F. J.
 McAuley, J. B. (City)
 Ritchey, A.
GENEVA—Pease, W. H.
GOLCONDA—McCormick, W. T.
 Ranchfuss, O. R.
GREENVILLE—Dewey, R. K.
HARRISBURG—Abney, I. C.
 McHenry, W. A.
HAVANA—Faulkner, J. B.
JACKSONVILLE—Brown, C. W.
 Smetters, J. L.
JERSEYVILLE—Newton, A. W.
 Pittman, W. (M. E.)
JOLIET—Comstock, A., 311 Barber bldg
 Heald G. W. (M. E.), Bates Machine Co.
 *Sheldon, Samuel B. (Ass't Gen'l Sup't,
 Illinois Steel Co.)
 Stevens, H. A. (City)
KANKAKEE—Gregg, Robt. C.
KEWANEE—Quade, J. C.
KIRKWOOD—Davidson, M. F.
LACON—Wightman, G. F.

LA GRANGE—Cadwalader, B. (M. E.)
 Dixon, George E. (M. E.)
 Ewing, Wm. B.

LA HARPE—Sterns, S. A.

LAWRENCEVILLE—Buchanan, H. G.

LINCOLN—Braucher, D. S.
 Davey, T. S.

MACOMB—Holmes, Cephas
 Shannon, J. F.

MARION—Pulley, Lewis

MARSEILLES—Nichols, A.
 Ward, E. J.

MATTOON—Baldwin, Hadley (C. C. C. & St. L. Ry.)
 Loomis, A. C. (City)

METROPOLIS CITY—Geltner, C. A.

MOLINE—Kimball, Wm. H.
 Olshauser, Walter A. G.
 Paddock, Henry G. (City), City Hall

MOMENCE—Clark, J. L.

MONMOUTH—McClanahan, Thos. (City)

MOUND CITY—Mathias, J. P.

MOUNT PULASKI—Ewing, J. W.

MOUNT VERNON—Smith, Kirby
 Williams, W. T., Jr.

NEWTON—Kilgore, Wm.

NORMAL—Herington, Geo. B. (Drainage, Sewerage, etc.)

OAK PARK—Iken, Wm.

O'FALLON—Tiedeman, D. F.

OLNEY—Higgins, Bryant

OQUAWKA—Moffett, E. L.

OREGON—Jakeman, Thomas

OTTAWA—Dunaway, Alfred
 Willson, Charles

PARIS—Brooks, T. J.
 Lemen, W. C. (City)

PEKIN—Jansen, D. H.
 Seibert, Jno. R.
 Smith, Benj. F.
 Van Deusen, R. P. Co.

PEORIA—Belsley, Clay (M. E.), Masonic Temple
 Dunn, Chas. H. (& Surveyor), Court House
 Harman Engineering Co. (Sanitary & Agricultural Drainage)
 Lagron, Arthur, 11 N Jefferson av
 La Porte, Chas. W. (M. E. & Patent Drawings), Woolner bldg
 McMullen, Charles A. (C. E.), New Library Bldg.
 *Maury, Dabney H. (Consulting, Hydraulic, etc.), 129 N Jefferson av
 Woermann, J. W. (C. E.), Observatory Bldg.
 Thompson, Almon D. (Consulting), Woolner bldg

PERU—Neureutler, A. H.

PRINCETON—Hodgman, Romanus

QUINCY—Bushnell, Web P
 Bader, F. C.
 Chatton, Enoch R.
 Hancock, F. L., 117 N 6th
 Hill, T. (M. E.), Quincy Eng. Works
 Prince, Edw.

ROCHELLE—Clark, G.

ROCKFORD—*Barnes, W. F.
 Davis, C. E. (M. E., Supt Illinois Sewing Mch. Co.)
 *Ingersoll, Winthrop (Pres., Ingersoll Milling Machine Co.)
 Stowell, Chas. C., 328 N. 4th
 Tissandier, Th. L. Leon de (County Surveyor)

ROCK ISLAND—Darling, Wm. A. (County), Court House
 Gould, Melvin A. (City)
 Kimball, Wm. H. (Consulting)
 Treichler, Wallace

SHELBYVILLE—Fish, L. E. (Consulting)

SPRINGFIELD—*Doebler, Chas. H. (M. M., Wabash Ry.)
 Du Bois, Nicholas, 231 S 6th
 Maddock, G. F. (M. E.), A. L. Ide & Sons

STREATOR—Graves, E. A.
 Rolph, F. T. (City)

TAYLORVILLE—Michels, J. S.
 Powell, R. M.

THEBES—Brown, Martin

URBANA—*Breckenridge, L. P. (Prof. Mech'l Eng'g, Univ. of Illinois)
 Lentwiler, O. A. (C. E. & M. E.), Univ. of Illinois

VANDALIA—Johnson, James H.

WAUKEGAN—Bowen, H. L. (City)
 Osterfield, C. P.
 Russell, Chas. E.

WHEATON—Herrick, G.
 Prout, Burnham & Russell
 Vallette, J. G.

WINNETHA—*Herdman, Frank E.

WOODSTOCK—Smith, R. O.

INDIANA.

ALBION—Foot, G. L. (Surveyor)
 Johnson, Jas. T.
 Moore, Fred B. (Surveyor)

ANDERSON—Downey, M. H.
 Downey & Wilcox

Rogers, Harry (City)
 Ross, Alex. (Surveyor)
 Wilcox, E. J.

ATTICA—Foster, J. A.
 Sadler, G. P. N.

AUBURN—Van Auker, J. J. (City)

AURORA—Fish, Chas.
 Gridley, A. T. (Surveyor)
 Krantz, J. H.
 Walters, Lee (City)

BEDFORD—Deckard, Lew E.
 Houston, G. C. (City)

BLOOMFIELD—Clogston, W. W. (Surveyor)
 Parker, F. M. (Surveyor)

BLOOMINGTON—Bowers, Eugene (Surveyor)
 Deckard, Lew. E. (City)
 Raeder, Geo. B. (Surveyor)
 Rathrock, D. A.

BLUFFTON—Batson, B. A. (Surveyor)
 Kiebele, Cuno
 North, Daniel O. (Surveyor)
 Powers, W. H.

BOONVILLE—Meyer, L. (City)

BRAZIL—Kattman, Frank A. (Civil & Mining)
 Mooney, Pat'k
 Sherfey, David (City)
 Sisson, F. S.
 Stevenhart, Gus.
 Wilkinson, O. E.

BROOKVILLE—Berry, Fielding (Surveyor)
 Bradburn, Chas.
 Burkhart, John
 Carter, Calvin (Surveyor)
 Dudley, Joseph
 Lawrence, T. W. (Surveyor)

BUTLER—Finley, W. T.

CANNELTON—Minto, Geo. (Surveyor)
 Tewlin, Owen, Jr.

COLUMBIA CITY—Miller, A. N. (City)
 Pearl, J. W.
 Strong, E. K. (City)

COLUMBUS—Hayes, W. A. (Surveyor)
 Hege, Levi
 Right, W. H. (City)

CONNERSVILLE—Brown, J. P.
 Finan, Jno. Jr.
 Hanson, Karl (City)
 Wilkin, J. T. (M. E.), The Connorsville Blower Co.
 William, C. R. Jr. (Surveyor)
 Williams, R. L. (Surveyor)

CORYDON—Armstrong, Andw. (Surveyor)
 Sharp, Dan. (Surveyor)

CRAWFORDSVILLE—Harding, Jas. A. (Surveyor)
 Hoffman, Fred
 Jamison, Alfred E.
 McConnell, I.
 Sharpe, W. E.
 Simpson, E. S. (City)
 Waugh, J. M.

CROWN POINT—Fisher, Geo. W.
 Knight, Frank (Surveyor)
 Metzler, F. (City)
 Strode, Alden (Surveyor)

DANVILLE—Franklin, W. F. (City)

DECATUR—Ernst, Chas. C.
 Fulk, W. E.
 Knoff, H. B. (City)
 McKean, G. E. (Surveyor)
 Tyndale, J. W.

DELPHI—Fawcett, J. W.
 Kirkpatrick, Elton E. (Surveyor)
 Obear, James
 Sines, Chas. G. (Surveyor)
 Smith, H. F. (City)
 Thompson, W. P. (City)

DUNKIRK—Badders, W. H. (City)

EAST CHICAGO—Fisher, T. W. (City)
 Johnson, E. Clarke

EDINBURG—Cutsinger, F. M. (City)
 Downes, W. E.
 Rennie, J.

ELKHART—Beardsley Gravity Dam & Cons. Co. (Hydraulic)
 Cordrey, D. F. (City)
 Hitchcock, L. E. (City)

ELWOOD—Finan, John, Jr.
 Richey, A. D.

EVANSVILLE—Allen, T. E.
 Beardsley, Carl R. (City)
 Nehring, Wm. H. & Co. (M. E.), 111 Park
 Pfafflin, August (City), City bldg
 Saunders, J. D. & M. S., 315 U. 3d
 Schlotter, Frank
 Shopbell & Harris
 Temme, Wm. H. (City), Court House
 Wunderlich, C. (City)

FAIRMOUNT—Fletcher, Geo. A.

FORT WAYNE—Brackenridge, Chas., 24 W
 Branstrator, Chas. W. (Surveyor) Berry
 Burger, Franz (M. E.), 24 E Wayne
 Rushman, J. A. (Surveyor)
 Chapin & Denny (Consulting M. E. & Patent Attorneys), 15 Bass blk

*Crawford, D. F. (Supt. M. P. Penna. Co.)
 Emmons, C. D.
 Goshorn, J. S., 386 E Wash'n
 Goshorn, William H.
 Guldlin, Olaf N. (C. & M. E.), Pres. Western Gas Constr. Co.

Haberkorn, T. H. (M. E.), 298 Calhoun

Hunton, L. P.

Moran, H. P. (Kerr-Murray Gas Engine Co.)

Ninde, Wm. E. (M. E.), 1005 Crescent av

Olds, O. L. Constr. Co. (M. E.), Elektron bldg

Potter, Geo. E.

Puder, F. R.

Randall, Frank M. (City), City Hall

Spindler, D. F. (Surveyor)

Wiley, G. B. (Surveyor)

FOWLER—Dayle, J. P. (Surveyor)
 Vanatta, J. S. (Surveyor)
 Van Der Voort, W. S. (Surveyor)

FRANKFORT—Brown, Jas. R.
 Cheney, Chas. E. (City)
 Huffine, Chas. C. (Surveyor)
 Shane, Alex.
 Sholl, John (Surveyor)
 Taylor, W. C.

FRANKLIN—Middleton, Ed. L. (City)
 Joseph, John E. (County Surveyor)

GARRETT—Jordan, Sam'l
 Speelman, J. A.
 Van Auker, J. J. (City)

GAS CITY—Knight, Cortez
 Leonard, J. J.

GOODLAND—Alter, Lewis S.
 Hamilton, Robert (Surveyor)

GOSHEN—Cooper, John L. (City)
 Hatch, W. R.

GREENCASTLE—Bell, Carroll (M. E.)
 Denny, Jas. (City)
 Lane, A. A. (Surveyor)
 Randall, H. M.

GREENFIELD—Lewark, Frank T., Court House

GREENSBURG—Black, Hy.
 Craig, J. W.
 Hutton, J. F.
 Sandusky, Hy.
 Stagg, Clyde
 Stagg, J. A.

HAMMOND—Bridge, W. F. (Surveyor)
 Bump, E. W.
 Hutton, J. F.
 Lyons, P. J. (City)

HARTFORD CITY—Fulton, Geo. T. (City)
 Harley, Wm.

McMichael, David A. (County)

HUNTINGBURG—Berger, Henry (City)
 Smith, M. F. (County)
 Taylor, H. E.

HUNTINGTON—Guthrie, Frank

INDIANAPOLIS—*Atkins, Wm. A.
 Bell, Thompson R. (M. E.), 64 Ingalls blk
 Bradford & Hood (M. E.), State Life bldg
 Brossman & King (Consulting), Lemcke bldg
 Brown, Chas. C. (Consulting), 3014 N. Capitol av
 Brubaker-Eldridge Co. (Consulting & Constructing C. E.), 20 Aetna bldg
 *Chandler, F. F.
 Clark, C. C. (Yawger Co.), 9 Fair blk
 Cleveland, G. C. (L. S. & M. S. Ry.)
 Cleveland, M. C. (C. C. C. & St. L. Ry.)
 Covert, Paul W. (Instructor High School)
 Culley, Chas. P. (Ass't County Surveyor)
 David, Thos. H., 1610 N. Alabama
 Deane, J. H., 111 W 11th
 De Bruin, N. H. (C. I. & E. Ry.)
 De Frees, Morris M., Ingalls bldg
 *De Frees, Rollin (Consulting), Atlas Engine Works
 Diemer, Hugo (Consulting E.), Commercial Club bldg
 Edgecombe, Edw. F. (M. E.), 2120 N. Penn
 Fatout, Harvey B. (& Surveyor), Baldwin
 Hadley, Artemus N. (M. E.), Talbott blk
 Hill, Edw., 116 W Maryland
 Holliday, Alexander (Vandalia Ry.)
 Huestis, C. C. (Essex Construction Co.)
 *Hurd, C. H.
 Jarvis, Walter C., 212 W 11th
 Jeup, B. J. T., Court House (Civil & Sanitary Eng.)
 Jeup & Moore, Ind. Trust bldg
 Julian, Paul A.
 *King, Robert Parsons, Lemcke bldg
 Klausman, Henry W. (County Surveyor), Court House
 Knowlton, H. H. (Big Four Ry.)
 Langdon, C. J. (Indianapolis Telephone Co.)
 Laycock, Joseph
 Lingenfelter, F. C., 1108 Pleasant
 Lockwood, B. D. (M. E.), C. C. C. & St. L. Ry.)
 McMath, Thos. B.
 McMeans & Tripp (M. E.), State Life bldg
 Mansfield Engineering Co. (Reinforced Concrete & Steam & Electric Rwy. Work a Specialty), Bd. of Trade bldg
 Mansfield, H. A. (M. E.)
 Mansfield, M. W.
 Meyers, H. G. (M. E.), 740 W. Wash'n av

- Moore, A. H.
National Bridge Co. (Reinforced Concrete Bridge Work a Specialty)
National Concrete Co.
Neville, M. A.
Ostrup, J. C., Traction Terminal bldg
Pfumm, O. H.
Power, J. Clyde (City), 13 Court House
Rochester, R. K. (Vandalia Ry.)
*Schwartz, Harry A. (Chemist), 2335 W Michigan (Chemist)
- Shafer, Jno. A., 3429 Kenwood av
Shearer, Samuel H., 2002 N Alabama
Silvius, E. T. & Co. (M. E.), Talbott blk
Smith, Geo. P. (L. E. & W. Ry.)
Smith, W. C.
Suow, J. H. & Co. (M. E.), 1120 N Beville av
Spacke Engineering Co.
*Stevens, R. C. Atlas Engine Works
Taylor, W. M. (M. E.), 740 W. Wash'n av
Vincent, Edgar R. (M. E.), State Life bldg
*Warrington, Jesse (Mech'l Supt., Nordyke & Marmon Co.), Morris & Kentucky av
Whittemore, John R. (C. & M. E.), Gen. Supt. Atlas Machine Wks.
Woodbridge, Frank, Union Trust bldg
Woods, Robert P., Traction Terminal bldg
- JASONVILLE**—Blackledge, Rollin H. (City Engineer & County Surveyor)
- JASPER**—Wilson, T. R.
- JEFFERSONVILLE**—Kelly, C. W. (M. E.)
Keith, L. Early
Lyon, V. W. (City)
- JONESBORO**—Smith, A. (City)
- KENDALLVILLE**—Bortner, Henry (City)
- KENTLAND**—Hawkins, B. (Surveyor)
- KNIGHTSTOWN**—Morrisou, R. I.
Baxter, Chas.
- KNOX**—Garner, John A.
- KOKOMO**—Bruff, Jas. F.
Ehrman, Wm. A.
Easterling, Al. (Surveyor)
Hmmt, Ellsworth (Surveyor)
Jones, O. O.
Mann, W. F. (City)
Morrow, Jackson (City)
Smith, A. W.
- LAFAYETTE**—Alexander, W. F. & Son
Arentz, F. C. H.
Brown, George S.
Burrage, Severance (Instructor in Sanitary Science & Sanitary Biology, Purdue University; Consulting Sanitary Engineer, International Harvester Co., Chicago, Ill.)
Conner, Arthur W.
Ernst, Fritz B. (Inst'r, Purdue Univ.)
*Golden, M. J. (Prof. Practical Mechanics, Purdue University)
*Goss, W. F. M. (Prof., Experimental Engineering, Purdue University)
Hatt, W. K. (Associate Prof., App. Mechanics, Purdue University)
Hoffman, Jas. D. (Associate Professor, Engineering Design, Purdue University)
Kerr, E. W. (M. E.)
Miller, Melville W. (Surveyor)
Pence, W. D. (Prof. Civ. Eng., Purdue University)
Pifer, Chas. W.
Robertson, C. H. (M. E.) (Instructor in Eugrg., Purdue Univ.)
Seastone, Chas. V.
Stevenson, G. H. (City)
Vawter, P. C. (City) (W. L.)
Waesche, G. E. (Instructor Civ. Eng., Purdue Univ.)
Wagstaff, C. L.
Williamson, Fred O.
Young, G. A.
- LA GRANGE**—Hosteller, J. W. (Surveyor)
- LAPORTE**—Burner, Hiram
Henock, Milton J.
Mammero, A. J. (Surveyor)
Norris, J. D.
*Rumely, Wm. N. (Vice Pres. & Supt., M. Rumely Co.)
LAWRENCEBURG—Fitch, Geo. Rumely Co.)
Loeber, Geo. W. (City)
Walters, Lee
- LEBANON**—Barker, B. F. (Surveyor)
Coulson, Samuel R. (County)
Fulwider, Jno. W. (City)
Huckstep, Thos. W. (Surveyor)
Wade, John L. (Deputy County)
- LIBERTY**—Raridan, Norris (Surveyor)
- LIGONIER**—Gerber, E. B. (City)
Hays, John
Jeanerette, R. E.
Treash, U. R.
- LINTON**—Cunningham, Fred.
- LOGANSPOUT**—Beal, Jas. A.
Coleman, Henry F., 322 3d
Jenkins, Atwood
Osmer, W. A. (City), 1823 B'way
Troutman, Harry W.
- LOWELL**—Clark, E. A.
Garrison, Jas. (City)
- LYONS**—Clogston, W. W.
Yeoman, S. N. (Surveyor)
- MADISON**—Day, W. B.
Sering, J. J.
- MARION**—Overman, L. M.
Petrie, T. E.
Smith, Ansel R. (County)
Smith, C. D. (Surveyor)
- MARTINSVILLE**—Goss, C. G. H. (Consulting)
Johnson, Hez K.
Phillips & Goss (Hydraulic & M. E.)
- MICHIGAN CITY**—Combs, C. E.
Koehlin, Henry
Miles, H. M. (City)
Renkowitz, John
- MISHAWAKA**—*Mix, Melville (Pres. & Mgr., Dodge Mfg. Co.)
Moore, W. S. (City)
- MITCHELL**—James, W. M. (City)
- MONTICELLO**—Bridge, G. M. (Surveyor)
Bushnell, Web. F.
Davison, S. A.
Lawrie, R. A.
Redding, Allen (Surveyor)
- MOORESVILLE**—Johnson, H. H. (City)
- MOROCCO**—Harpole, W. B.
- MOUNT VERNON**—Anderson, E. S. (Surveyor)
Barlts, G. W. (City)
Sarlls, George W.
- MUNCIE**—Crandall, F. (City)
Gough, Chas. (Surveyor)
Hefel, Tony C.
Marsh, J. R.
Storer, O. W. (Surveyor)
Wood, W. H. (City)
- NEW ALBANY**—Coolman, E. B. (Surveyor)
Mann, Martin H. (Surveyor)
Mann, Sam'l T. (City)
- NEWBURG**—Hauiron, Richard
- NEWCASTLE**—Ackley, Jacob (City)
Clark, C. B. F. (City)
Cook, D. K.
Minesinger, Omer (Surveyor)
Rohe, S. A. (Surveyor)
Troyer, J. E.
- NOBLESVILLE**—Cottingham, C. J.
Findley, Herbert L.
Mitchel, J. A. (Surveyor)
Shannon, J. S.
- NORTH VERNON**—Prather, W. B. (City)
- OSGOOD**—Harsch, John C. (Surveyor)
Stimpson, Earl
- OTTERBEIN**—Van Der Vort, W. S. (City)
- PAOLI**—Henderson, John
McPheeters, A. N.
Wilson, John (Surveyor)
- PERU**—Blair, Guy
Cole, R. H. (City)
Danes, W. S. (Supt. B. & B., Wahash R'y)
Horan, Michael (City)
Jackson, C. S.
Kelly, Peter (City)
Smith, A. W.
Trippier, A. G.
- PETERSBURG**—Ficklin, William
- PLYMOUTH**—Butler, J. C. (City)
English, Wm. H. (Surveyor)
Klinger, Jerry
North, Achilles
Thompson, Eldridge
- PORTLAND**—Curran, W. G. (City)
Frost, A. J. (City)
Griffith, Jay (Surveyor)
Stewart, R. P.
- PRINCETON**—Emmerson, G. M. (City)
Watts, Edwyn, E.
- REMNIGTON**—Alter, Lewis S.
- RENSSELAER**—Gamble, H. L. (City)
Price, Myrt B. (Surveyor)
Thrawls, J. C.
- RICHMOND**—Barnard, R. E.
Bland, Miles C.
Charles, Fred. R.
Collins, Wm. D., P. O. Box 171
Dill, Howard A.
Ferriday, Robert
Gibson's, A. B. Sons
Harris, Roswell
Howard, R. A. (Surveyor)
Hunt, Frank J.
Hunter, Harris & Co.
Jackson, H. L.
Kennedy, A. H.
Kennedy, Clyde
Sackett, R. L.
Wehker, H. L. (City)
- RISING SUN**—Keeney, Geo. (Surveyor)
Monroe, C. (Surveyor)
- ROCKPORT**—Oldham, Thos. (City)
- ROCKVILLE**—Campbell, J. T.
Ott, Claude (Surveyor)
- RUSHVILLE**—Dill, Wm. (City)
Downey, M. H. (Surveyor)
Herkless, A. R.
Kelley, Geo. R. (Surveyor)
Kelly, Peter
Stewart, A. L.
- SALEM**—Prow, John C.
- SEYMOUR**—Blish, E. W. (Surveyor)
Slagle, Geo. (City)
- SHELBYVILLE**—Crawford, Willard F.
Isley, W. H.
Phillips, J. H. (City) (Surveyor)
Webster, C. F. (Surveyor)
- SOUTH BEND**—Alward, Albert
*Evans, Wm. F. (M. M., Studehaker Bros. Mfg. Co.)
Graves, Wm. E.
Hammond, A. J. (City)
Keller, Fred W. (Surveyor)
Meighan, John F.
Moore, W. S. (Ass't City)
Moore, Wm. (Ass't City)
Whitten, Wm. M.
- SULLIVAN**—Bailey, Dick (City)
Chastain, Manford (Surveyor)
Crowder, E. S. (Surveyor)
Cunningham, F. M. (Surveyor)
- SYRACUSE**—Newberry, S. B.
- TELL CITY**—Cooper, J. M. & Sons
Minto, Geo. (Surveyor)
- TERRE HAUTE**—Andrews, Wm. M.
Bertenshaw, B. A.
Brannon, Clifford
Burns, R. M.
Cohurn, Maurice (Eng'r M. of W., Van R'y)
Cook, G. H. (S. I. R'y)
Faley, C. B.
Floyd, W. H.
French, C. G. (S. I. R'y)
*Gray, Thos. (Dir. Dept. Dynamic Engineering, Rose Poly. Univ.)
Grimes, Geo. R. (also Hydraulic), 521 Ohio
Harris, W. H. (Surveyor)
Houghton, E. R. (S. I. R'y)
Howard, Ralph H. (Van R'y)
Howe, M. A. (Prof. Civ. Eng., Rose Poly. Inst.)
Hunter, James W.
McCormack, R. L. (Instructor Civil Eng., Rose Poly. Inst.)
Marshall, H. S.
Paige, W. R.
Patterson, G. S. (Civil & Mining)
Ranno, F. W.
Scott, Chas.
Shaneberger, E. L.
Simpson, Geo. H., 530 S 7th
Smith, H. C.
Sparks, Ralph
Starbuck, J. E.
Stratton, A. E.
*Wagner, Frank C. (Associate Prof. Steam Engineering, Rose Poly. Univ.)
Watson, A. C. (Van R'y)
Zinn, A. S.
- TIPTON**—Crail, Ira F. (City)
Gott, A. W. (Surveyor)
Van Buskirk, Robert (City)
- UNION CITY**—Badders, W. H. (City)
Bell, S. R. (City)
Gittinger, W. H.
- VALPARAISO**—Carver, Thos. H.
Lemhke, Chas. F.
Rankin, Henry (Surveyor)
- VEEDERSBURG**—Burgner, Wm.
- VEVAY**—Danglade, Ernest (City)
- VINCENNES**—Dunn, Thomas
Hershey, Jere
Hershey, Joseph (City)
Neshitt, B. F.
Rodgers, John
Spiker, J. S.
Williamson, E. C.
- WABASH**—Fowler, Wm.
Hilty, Jno.
Howe, C. E.
Woods, Robt. (City)
- WALKERTON**—Leslie, Geo. (City)
- WARSAW**—Chamberlain, W. Y. (City)
Godman, J. V. (City)
Hughes, Caleb.
McCarter, G. W. (Surveyor)
Sellers, Chas. L. (Surveyor)
- WASHINGTON**—Faith, Edw. C. (City)
Faith, Grant
Fritch, L. C.
Poland, W. B.
Smiley, T. J.
Stimpson, Earl
- WHITING**—Bridge, W. F. (Surveyor)
Evans, Jas. (City)
- WILLIAMSPORT**—Andrews, Morton O.
Gemmer, W. H.
- WINAMAC**—Boyles, John G.
Cox, Joseph (City)
- WINCHESTER**—Bates, F. E. (Surveyor)
Hinshaw, J. E. (Surveyor)
Wright, Lee (Surveyor)
Yunker, C. C. (City)
- WORTHINGTON**—Maxwell, C. A.

IOWA.

AFTON—Chapin, E. P.
 ALGONA—Lilly, A. J.
 AMES—Ashbaugh, Lewis
 Beyer, Samuel W.
 *Bissell, G. W. (Prof. Mechanical Engineering, Iowa State University)
 Lanphear, B. S.
 Marston, A.
 Spinney, L. B.
 ANAMOSA—Whaten, J. F.
 BEDFORD—Randolph, W. F.
 BOONE—Brown, G. W.
 Kastberg, Karl C.
 Russell, C. E. (City)
 BURLINGTON—Fickes, C. R.
 Holbrook, Royal H.
 Laubenfels, G. A.
 Steyh, Wm., 1213 Summer
 Young, N. S.
 CARROLL—Hoffman, I. W., Carroll R. R., 4
 CEDAR RAPIDS—Brown, J. M.
 Clements, M. F.
 Davis, Garret
 Dearborn, H. H. (M. E.)
 Diserens, F. L.
 Fatherson, T. W.
 Gale, E. G.
 Greene, Wm. J.
 Holbrook, Royal H., 1515 2d av
 McCauley, Thos. Francis, 314 S 2d, W.
 Merridith, Geo. H. (City)
 Randall, P. F., 616 5th av
 Smith, Percy Preble
 Tomlinson, Jos., 216 N 13th
 Wardle & Yeager (Consulting, Municipal, etc., Rys., etc.)
 Warriner, T. R. (also Hydraulic, Consulting, Municipal & Public)
 Wilson, Chas. T.
 Wynn, G. W. (also Hydraulic), 111 1st av
 CENTERVILLE—Berry, Wm. W.
 Holbrook, P. S.
 CHARLES CITY—Rozine, F. B.
 CHEROKEE—Pingrey, J. S.
 CLARINDA—Hartford, I. N. J.
 CLEAR LAKE—Colby, Wm.
 CLINTON—Chase, Chas. P. (City)
 Hart, R. C.
 Iowa Engineering Co. (also Hydraulic)
 Schnell, August (City)
 COUNCIL BLUFFS—Cook, E. E.
 Judson, L. P. (& Surveyor)
 CRESCO—Richards, W. L.
 CRESTON—Cattermole, R. W.
 DAVENPORT—Baker, G. T.
 *Bettendorf, Wm. P. (Pres. & Gen. Mgr., Bettendorf Axle Co.)
 Beuck, C. H.
 Brayton, B. B.
 Brown, C. G.
 Francis, C. E.
 Hubinger, M.
 Kimball, W. H.
 Murray, Thos.
 Semmck, Fred C.
 Tri-City Construction Co.
 DECORAH—Schenck, C. E.
 DENISON—Pink, E. T.
 Huntington, Harry
 DES MOINES—Blank, T. L., I. L. & T bldg
 Budd, J. W. & Moughmer (C. E.), Younger-Carss, Jas., 849 13th man bldg
 Carss, M. M., 849 13th
 Crellin, Edw. W.
 Delo, C. G.
 Des Moines Bridge & Iron Works, Tuttle nr 9th
 Des Moines Engineering Bureau, Good blk
 Dickinson, Warren, 1511 10th
 Dobson, Geo. D.
 Dobson, Guy E.
 Eberhardt, G. A., 1908 W 8th
 Gifford, E. W., Equitable bldg
 Higgins, Lafayette, Good blk
 Hockett, J. L., 121 Charles
 Jackson, W. H.
 Kastberg, K. C., 510 Good blk
 King, Geo. M. (City), City Hall
 Lambert, Geo. F., 312 Youngerman blk
 Lawlor, T. F., Equitable bldg
 Lovell, W. D. (Consulting, Sewer, Water Works, Electric Light Plants)
 Marsh, J. B. (Consulting), Equitable bldg
 Miller, Geo. W., 2415 Atkins
 Morgan, A. L., 570 Union Station
 Moss, B. N.
 Schreiner, B. (also Hydraulic), 1445 Maple
 Stark, N. M. & Co., Crocker bldg
 Stone, L. H., 1317 W 22d
 Turner, J. W., Youngerman blk
 Wilson, Jas., 315 Center
 DOW CITY—McHenry, Morris

DUBUQUE—Anderson, Eugene, 361 Julien av
 Baumgartner, Chas. H., 815 Main
 Blake, C. E. (City Engineer), 361 Alta Vista
 Brown, J. E., 1337 Bluff
 Geisbeker, W. J., 2337 Wash'n
 Gniffke, Henry B.
 Hyde, E. S. (Surveyor), 25 Pickett
 Ilg, Paul (County), Court House
 Linderman, M.
 Tschirgi, M., Jr. (also Hydraulic, etc.), 46
 EMMETTSBURG—Grout, Leroy Henion
 Moncreif, John
 ESTHERVILLE—Callwell, R. B.
 Herner, P. G.
 FOREST CITY—Ambrose, J. H.
 FORT DODGE—Easley, Frank L.
 Reynolds, C. H.
 *Smith, L. L. (Gen. Shop Foreman, Chicago & Great Western R'y)
 GLENWOOD—Dean, Seth.
 GRAND JUNCTION—Thomson, Geo. M.
 HAMPTON—Kelly, Wm. F.
 HARLAN—Peterson, P. I.
 HAWARDEN—Heald, A. W.
 IOWA CITY—Andrews, Launcelot W.
 Cox, A. J.
 Dey, C. T.
 Ellsworth, G. H.
 Fitzpatrick, T. J.
 Lambert, Byron James
 Magowan, C. S. (City)
 Raymond, Wm. G. (C. E.)
 Schulze, J. O.
 Sims, A. V.
 Welch, H. S.
 Woodward, S. M.
 JEFFERSON—Bean, H. W.
 KEOKUK—Cole, J. H.
 Diver, J. B.
 Meigs, Montgomery
 Robertson, J. R. (City)
 Williams, L. E.
 KNOXVILLE—Ney, James
 LE MARS—Bowman, L. K.
 Myers, J. W.
 LEON—Hollinger, J. M.
 MANSON—Thompson, W. L.
 MARION—Las, J. C.
 Lary, J. H.
 Parsons, S. N.
 MARSHALLTOWN—Baughman, C. A.
 Bremmer, Wm.
 MASON CITY—Lary, J. H.
 Sweet, B. J.
 Vincent, C. F.
 Wilson, F. P.
 MOUNT AYR—Ross, H. H.
 MOUNT VERNON—Alden, F. S.
 Stanley, O. E.
 Williams, Sylvester N.
 MUSCATINE—Downer, Thos. Benson
 McCambell, R. H.
 Ryan, J. J.
 NASHUA—Scales, H. A.
 NEVADA—Allen, M. C.
 Wells, Jno. M.
 NEW HAMPTON—Bowen, A. D. (M. E.)
 Cotant, G. W.
 Kress, Jos. (M. E.)
 Safford, Chas. (M. E.)
 NORTHWOOD—Dwelle, H. V.
 OAKLAND—Burrows, J. F.
 OELWEIN—Little, B. F.
 OSAGE—Brown, C. D.
 OSKALOOSA—Cavern, Nathaniel
 Davis, J. D.
 Shannon, J. A.
 OTTUMWA—Allen, C. R.
 Brady, J. T.
 Burton, S. H.
 Dittmar, John
 POSTVILLE—Williams, Wilkes
 RED OAK—Christie, Wm., Jr.
 ROCK RAPIDS—Gilman, J. P.
 ROLFE—Malcolm, Fred'k
 SAC CITY—Martin, A. F.
 SHELDON—Frisbee, Jerome
 Wade, Frank E.
 SIBLEY—Campbell, M. J.
 SIOUX CITY—Gere, Thos. P.
 Holmvig, Martin
 Lewis, J. M. (City)
 Skeels, Geo. (City)
 Wakefield, L. F.
 SPENCER—Moore, Peter M.
 SPIRIT LAKE—Johnson, J. M.
 STORM LAKE—Harding, F. M.
 Parrish, J. F.
 TOLEDO—Holstead, W. H.
 Sweatt, B. J.
 WASHINGTON—Kyle, D. C.
 WATERLOO—Newton, M. L.
 Slippy, R. B.
 Wilson, Chas. T.

WAUKON—Dayton, H. O.
 Ratcliffe, John G.
 WAVERLY—Hoover, H. S.
 Roblsh, A. A.
 WEBSTER CITY—Evert, N. B.
 Fox, E. E.
 McComb, Wm. T.
 Quackenbush, J. E., 1600 Wilson av
 WEST LIBERTY—MacDonald, F. A.
 WEST UNION—Little, B. F.
 Neff, H. M.
 WILLIAMSBURG—Blazier, Herbert E.

KANSAS.

ABILENE—Romig, A. C.
 ANTHONY—Lee, J. B.
 ATCHISON—Giddings, Fred. (City)
 Woodworth, C.
 BELLEVILLE—Ware, I. C.
 BELOIT—Wilson, N. L.
 CHANUTE—Wells, W. N.
 CLAY CENTER—Allen, Newton
 McLaughlin, Wesley
 COLUMBUS—Jenkins, J. H.
 Wallace, Joseph
 COUNCIL GROVE—Harlan, T. B.
 Manley, W. H.
 DODGE CITY—Harris, H. P.
 EMPORIA—Brown, Matthew (City)
 Smith, A. J.
 ERIE—Cook, N. V.
 Greene, Frank
 EUREKA—Knudson, J. O.
 FORT SCOTT—Toles, E. E.
 FREDONIA—Domblaser, Benjamin
 Luckey, J. M.
 McKimney, Nathan
 GALENA—Duncan, W. H.
 GARDEN CITY—Wicks, T. E.
 GARNETT—Rankin, J. A.
 GIRARD—Christlan, S. P. (City)
 Daniels, F. P.
 GOODLAND—Long, D. A.
 GREAT BEND—Markey, B.
 Newcombe, S. A.
 HAYS—Robins, N.
 HIAWATHA—Beecher, C. P.
 Marrior, T. J.
 HOLTON—Jones, M. Z.
 HOWARD—Chapman, J. F.
 HUTCHINSON—Carpenter, F. H.
 Colt, C. W.
 INDEPENDENCE—Hibbard, H. L.
 IOLA—Stover, L. P.
 KANSAS CITY—Barclay, Wm., 710 Minn. av
 Brazenill, Wm., 2120 N 5th
 Carr, Scott, 222 N 6th
 Ela, R. E., 2002 N 6th
 House, Francis, 720 Ferry
 Kay, Wm. G., 244 N 17th
 Lasley, J. H. (County Surveyor), Court House
 McAlpine, R. L., Portsmouth bldg
 McClung, C. L., 2116 N 10th
 Miller, J. C., 640 Washington
 Stalnaker, W. H., 525 Ohio
 KINGMAN—Beneffel, T. S.
 Childs, W. H.
 KINSLEY—Lewis, J. M.
 Manuel, S. T.
 LARNED—Babbitt, D. E.
 McConnaughay, J. D.
 LAWRENCE—Diemer, Hugo (Consulting M. E.)
 Duffey, Lloyd
 Wheeler, Holland (City)
 LEAVENWORTH—Abry, H. E., 728 Spruce
 Barnes, D. M., 407 Cherokee
 Fisher Machine Works (M. E.)
 Hackbusch, H. C. F., 511 N. Esplanade
 Parlin, M. D., City Hall bldg
 LYNDON—Runnells, L. S.
 LYONS—Brown, Jesse
 MANHATTAN—Noble, O. M.
 MARION—Case, Reese
 Nye, W. C.
 MARYSVILLE—Brawley, Jno.
 MINNEAPOLIS—Powell, C. S.
 NORTON—Newell, J. C.
 OBERLIN—Coldren, E. M.
 Sears, J. M. (M. E.)
 OLATHE—Pierson, Jesse
 OSBORNE—McIntyre, J. W.
 Paul, Samuel
 OSKALOOSA—Clark, E. E.
 Davis, T. H.
 OSWEGO—Bayless, E. P.
 Boguess, J. B.
 Busbneil, A. B.
 OTTAWA—Eldridge, A. E.
 Service, J. A.
 Titus, A. C.
 PAOLA—Roscoe, N. J.

PARSONS—Gaffey, M.
Kutz, Wm. H.
*Maddocks, Wm. (Chief Draughtsman, M. D., M. K. & T. R'y)
PHILLIPSBURG—Gray, J. M.
PITTSBURG—Glass, J. D.
Waite, C. G. (City)
PRATT—Hickie, E. E.
Turner, Lindsay
ROSEDALE—Mitchell, F. A.
RUSSELL—Dollison, J. F.
Russell, W. G.
ST. JOHN—Smith, Sherman
SALINA—Farrar, W. F.
Hamilton, O. P.
SEDAN—Denick, A. J.
Goodell, J. W.
SENECA—Mathews, Mortimer
SMITH CENTER—Withington, N. M.
STOCKTON—Hoskins, B. W.
Wells, M. J.
TOPEKA—Allan, A. G.
Bailey, B. A., 734 Kansas
Barnes, Wm. H. (City)
Emerson, H. (consulting), Santa Fe R. R.
Graftstrom, Edw. (M. E.), Santa Fe R. R.)
Hinckley, H. V. (also Hydraulic, etc.)
Huntton, Joel
Tweeddale, Wm. (also Hydraulic, etc.), 707 Kansas av
Whitaker, J. B., 525 Kansas av
Winkley, H. V.
TROY—Hills, H. A.
Marsh, F. P.
WELLINGTON—Roberts, C. L.
WICHITA—Jackson, H. L. (City), City Hall
Munderello, R. H.
WINFIELD—Boynton, J. S. (City)
Bradley, J. M.
Cairns, Alexander
YATES CENTER—Tallman, L. N.

KENTUCKY.

CATLETTSBURG—McDye, John
CLINTON—Atwood, T. L.
COVINGTON—Gunn, Wm. E., City Hall
Kennedy, Jos. D., 1547 Scott
Kennedy, T. H., College bldg
EDDYVILLE—Rogers, T. J.
ELIZABETHTOWN—Morgan, W. G.
FLEMINGSBURG—Hunter, J. W.
FRANKFORT—Marshall, B. (City)
GRAND RIVER—Moore, Enos L. (M. E.)
HARRODSBURG—Gentry, C. W.
HENDERSON—Eastrin, R. S.
Jenkins, T. M. (M. E.)
Kimmel, M. M.
Kimmel, S. H.
Steffy, Joe. (M. E.)
HOPKINSVILLE—Meecham Eng. & Construction Co. (C. E.)
LEXINGTON—Corbin, Joshua
*Faig, John T. (Asst. Prof. Mechanical Engineering, State College of Kentucky)
O'Neil, P. P. (City)
Totten, A. I.
LOUISVILLE—Butler, Pierce (consulting, hydraulic & M. E.), Norton Bldg.
Cook, C. Lee (M. E.), 1052 3d
Cornwell, O. L., Columbia Bldg.
Craden, Wm. A. (surveyor), 2415 Rowan
Dawley, H. A., 940 6th
De Funiak, Fredk., 204 E. Chestnut
Doyle, Chester L. (M. E.), 1518 1st
Hamilton, T. S. (M. E.), 1406 Garvin
Hermany, Chas. (consulting, hydraulic), 540 8d
Joseph, O. G., Lincoln Savings Bank bldg
Metzger, J. A., 117 W. Walnut
Miller, Howard (& surveyor), 216 5th
Morris, Marshall, 1638 3d
Parsons, C. W., 341 5th
Shaw, Granville W., 1358 Cherokee rd
Stonestreet & Ford (& surveyors), Louisville Trust Bldg.
Young, R. H. (Co. Surveyor), Court House
LUDLOW—Weaver, J. J.
MIDDLESBORO—Merwin & Richardson
NEWPORT—Hormung, Geo. (Hydraulic)
Lindsey, Geo. G., 7 E 4th
Morlidge, J. B., Court House
Morton, B. R., 9 E 4th
NICHOLASVILLE—Huggins, O. B.
OWENTON—Lee, B.
Wilcox, James, City Hall
PROVIDENCE—Palmer, J. D.
SPRINGFIELD—Roberts, Simpson
VERSAILES—Hifner, M. B.

LOUISIANA.

BATON ROUGE—Swart, B. (City)
CINCLARE—*Sammons, E. A. (Supt., Cinclare
LAFAYETTE—Babin, E. S. (Central Factory)
MONROE—Duty, M. J. (M. E.)

NEW IBERIA—Broussard, Sylvio (M. E.)
Gullfonx, V. P.
Sanders, Jno. G. (M. E.)
NEW ORLEANS—Bell, Alonzo C., 226 Carondelet
Borde, Geo. U. (consulting), 226 Carondelet
Brosnan, D. M. (& surveyor), 1205 7th
Brown, Frederick Co. (Ltd.), 226 Carondelet
Brown, Henry C., 121 Carondelet
Christie & Lowe (M. E.), 107 Camp
Coleman, John F. (consulting), 226 Carondelet
Danev & Waddill (& Surveyor), 337 St. Charles
De Armas, Geo. (Surveyor), 137 Carondelet
Enderle, Edw., 738 Union
*Gregory, Wm. B. (Asst. Prof. Expl Engineering & Mechanism, Tulane Univ.)
Harrod, Benj. M., 225 Carondelet
*Johnson, Lewis (Pres. Johnson Iron Works Ltd.), Julia & Delta
Joor, Wm. E., Hennen bldg
Lewis, C. U. (City Surveyor's Office), 606 Gravier
*Lockett, A. M. (M. E.), 343 Baronne
Morris, J. C., 107 Camp
Palestine, Robt., 830 Canal
Payne, F. T. (C. E. & Surveyor), Hennen bldg
Payne & Joubert (Contracting M. E.), 423 Carondelet
Pille, Edgar, 937 Orleans
Seghers, D. E. & Son (Surveyors), 335 Carondelet
Turley, Jno. K., 309 Baronne
Wilson, Richard C., Hennen bldg
SHREVEPORT—Collins, F. M. (M. E.), 141 Anne
Jenkins, B. F.
Jeter, J. W. (M. E.), Market
Oliver, Ben. (M. E.), Texas av
Wilson, Geo. R., 139 Anna
Woodward, Wilkie

MAINE.

AUBURN—Greenleaf & Doring, Elm blk
Swift, R. A., 77 Spring
AUGUSTA—Getchell, Wm. B. (City), 243 Water
Wing, A. R., 243 Water
BANGOR—*Clark, Chas. B. (Supt., Eastern Mfg. Co. Plant), 60 B'way
Coombs, Philip H., 12 Exchange blk
Crosby, Wm., Kenduseag blk
Marston, Frank L.
Vicery, Gilbert S. (City) City Hall
BAR HARBOR—Lord, E. I.
BATH—Hayden, H. W. & Co.
*Hyde, Chas. E. (Marine), Bath Iron Works
*Hyde, Jno. S. (Supt. Engineering Dept., Bath Iron Works)
BIDDEFORD—Dennett, W. S.
BOOTHBAY HARBOR—Baldwin, F. W.
BRUNSWICK—Crawford, J. W.
BUCKSPORT—Spofford, Parker
CALAIS—Gardiner, Benj. (and Surveyor), (City)
CAMDEN—Crawford, M. T.
DEERING—Barbour, I. W. (City)
ELLSWORTH—Wyman, Levi A.
FARMINGTON—Nichols, Walter
GARDINER—Danforth, Frederic
Hull, Frank E.
Robbins, C. A. & Son (M. E.)
LEWISTON—Jones, John A. (City), City Hall
Straw, John B., 124 Pine
MACHIAS—Sargent, Paul D.
MILLINOCKET—*Ferguson, H. S. (Chief Engineer, Great Northern Paper Co.)
NORWAY—Stevens, S. A.
OLD TOWN—Blanchard, Chas. G.
Bussell, S. J.
Hunt, Frank
Mullen, Charles W.
Sewell, J. W.
PARIS—Vose, George L.
PATTEN—Robinson, Halbert G.
PORTLAND—Bennett, Raymond F., 3 Moulton
Fenn, Chas. W., 11 Exchange
Fernald, Geo. N. (City), City Hall
Forrest, Thos. E., Cushings Island
Hsley & Cummings, 57 Exchange
Jones, Jas. B., Island av, P I
Jordan, Edward C. & Co., 31 1-2 Exchange
Moulton, A. H. (M. E. & Consulting)
Richardson, Percy H., 122 Exchange
Staples, C. E., off Lighthouse rd, Bowery
RIDLONVILLE—Goodwin, Burton W. Beach
ROCKLAND—Tripp, O. H.
RUMFORD—French, Henry C.
RUMFORD FALLS—Mixer, C. A.
Nelson, Henry
Stratton, R. B.
SACO—Dennett, W. S.
Libby, Roland W.
Morgan, E. P. (M. E.)
SANFORD—Allen, W. A. (M. E.), Washington
Guensey, Amos (M. E.), Washington
Shurburn, Fred. S. (M. E.), High
SULLIVAN—Simpson, Chas. P.
WATERVILLE—Burleigh, John H.
Rockwood, Ralph H.

MARYLAND.

ANNAPOLIS—Douw, John DeP.
BALTIMORE—*Adams & Schwab (Consulting, Hydraulic, M. E., Mining, etc.) Calvert bldg
Anderson, James (M. E.), 214 N Front
Andrews, George W. (B. & O. R'y), 1816 Linden av
Atwood, Wm. O. (Surveyor), 18 E Lexington
*Baker, W. S. G. (Pres., Baltimore Car Wheel Co.), Charles & Wyndhurst av
Banks, Daniel B., 1301 Maryland av
Barclay, Marcus C., 2010 Park av
Barnes, Jas. L. B., Mt. Royal Station
Basshor, Thos. C. Co. (M. E.), 28 Light
Beadenkopf, Geo. (& M. E.), 403 E 22d
Benthall, Wm., City Hall
Bergland, Eric., 43 Central Savings Bank
Blays, Tolley A., 216 E Chase bldg
Bouldin, August & Co. (& Surveyors), 224
Boyden, Benj. F., 2004 Guilford St. Paul
Brittain, Jos. G., 1705 N 10th
Broderick, Jos. G., 1705 N 10th
Broderick & Wind Eng. & Cont. Co., Equitable bldg
Buck, Carlos C., 187 N. Payson
Butler, Thos. H. (M. E.), 1019 Linden av
Buxton, Geo. W., The Waldorf
City Surveyor (City Surveyor), 210 E Lexington
Conett, A. W., American bldg
Coustructing Engineers Co., 210 E Lexington
Darling, Frank W., Gaither Est. bldg
*Dashell, Benj. J., Jr. (Consulting), Athol nr Fkd. av ext.
*Detrick, Jacob S. (Pres., Detrick & Harvey Mach. Co.), 205 E Preston
Diffenderfer, John K. E. (M. E.), 217 N Calvert
Disney, Thos. H. (Surveyor), 210 E Lexington
D'Olier Engineering Co. (Consulting), 405 Courtland
Du Breull, Maurice (Consulting), 227 St. Paul
Duncan, Frank K., 1109 Harlem av
Ellender, Howard H., 1438 W Lanvale
Exall, T. P., 121 W 20th
Faust, Horace K., 224 S B'way
Fendall, B. T., City Hall
Flaherty, Wm. T. (Surveyor), 351 W 21st
Gordon, Henningham, 1313 Park av
Granbery, James E. & Co. (Consulting), 314
Gray, Newton M., City Hall N Holliday
Greenbaum, Joseph, 2537 Penn av
Greiner, John E., Mt. Royal Station
Gwynn, Henry, 2014 N Calvert
Hambleton, F. H., 912 N Charles
Harris, J. M., 511 Park av
Hays, Richard C. (Surveyor), 216 E 20th
Hendricks, V. K. (Asst. to Engineer, M. of W., B. & O. Ry.), 111 W Saratoga
Hook, Chas. O. (Consulting), City Hall
Hopkins-Barnett Co., Calvert bldg
Hull, John B. T., 1026 Cathedral
Hutton, N. H., City Hall
Kennedy, Philip C., City Hall Annex
Johnson, Jas. V. (& Surveyor), Bourse bldg
Jones, Thos. G. (Mining), 213 N Frederick
Kennedy, Philip C., City Hall Annex
*Keilholtz, Pierre O. (Consulting), Continental, 1630 Linden av
Lacy, Robt., 1630 Linden av
Lauer & Harper Co., Westport
Lauterbach, C., 2135 Fairmount av
Lehman & Jones, Gaither Est. bldg
Lemley, Cassius McC. (Co. Surveyor), 1712 N Calvert
Logue, Wm. H., Jr. (M. E.), 931 N B'way

When writing to firms
whose names appear
in this book please
mention
HENDRICKS'
COMMERCIAL
REGISTER.

McCoy, Jas. (Consulting M. E.), 20 N High
 Manning, W. T. (Consulting), Equitable bldg
 Martenet, S. J. & Co. (& Surveyors), 18 E
 Lexington
 Maryland Geological Survey, Johns Hopkins
 University
 Mavin, Robt. T. (& Surveyor), 14 E Lex-
 ington
 *Middleton, Harvey (Pres., Thomas C.
 Brasshor Co.), 28 Light
 Newhall & Co. (Consulting), American bldg
 Newton & Painter (Consulting), American
 bldg
 Padgett, Jos. S. Co., 303 W Lombard
 Patterson, J. F., 1830 W Lanvalle
 101 Calverton rd
 Peeples, Wilbur H. (Consulting), American
 Phelps, Chas. E., Jr., City Hall bldg
 Poole Engineering & Machine Co. (M. E.),
 Woodberry
 Potomac Engineering & Contracting Co.,
 101 Calverton rd
 Quick, Alfred M., City Hall
 Ramsey, H. Asbton (Consulting), Continen-
 tal Trust bldg
 Reeder, Chas. L. (Consulting M. E.), Equi-
 table bldg
 Renshaw, Robt. L. (Surveyor), 106 Jackson
 pl
 Sanford, Edw. H. (& Surveyor), Bourse bldg
 Sangmeister, Rudolph, 20 P O bldg
 Scott, Jas B. (Consulting M. E.), 2011 Bolton
 Scott, R. S., 832 N Eutaw
 Shirley, Jos. W., City Hall Annex
 Singer, Geo. W. (Consulting), 101 Calverton
 rd
 Sloan, Frank H. (Surveyor), Builders' Ex.
 Smith, Layton F., Fidelity bldg bldg
 Sudler, John E., City Hall
 Thomas, Raleigh C. (& Surveyor), 210 E
 Lexington
 Topographical Survey City of Baltimore,
 City Hall Annex
 Tustin Septimus P. (& Surveyor), 18 E Lex-
 ington
 Twamley, Wm. P. (& Surveyor), 102 E Lex-
 ington
 United States Engineers' Office, 812 St.
 Paul
 Vandevanter, Chas. O. (Consulting), 22 E
 25th
 Voorhees, Henry B., Camden Station
 Wells & Newton Co., 502 E Fayette
 Welsh, Geo. T., Calvert bldg
 Weston, B. Latrobe, City Hall
 Williams, Samuel T. (M. E.), 223 N Calvert
 Williamson, Sidney B., Equitable bldg
 Woodruff-McLaughlin Co. (Consulting), 100
 E Lexington
 Wrenshall, Jno. E., 1037 N Calvert
CUMBERLAND—Beall, L. L.
 Brackett, Ernest F. (Mining)
 Le Ferre, D. P. (County Engineer)
 Patterson, T. L.
 Schaidt, J. C.
 Schriver, J. C.
HAGERSTOWN—Evans, Richard
MOUNT SAVAGE—Bruck, Henry T. (Supt. of
 M. P., Cumb. & Penn. R. R.)
SALISBURY—Polk, W. U.

MASSACHUSETTS.

ADAMS—Haskins, C. C.
 Sayles, Chas. F.
AMESBURY—Titcomb, John P., 111 Friend
ARLINGTON—Adams, Henry S.
ATHOL—Caswell, Lilley B.
ATTLEBORO—Hyde, K. H.
 Luther, W. J.
AYER—Hovey, Horace C.
BEVERLY—Berry, W. J., 153 Cabot
 *Kaven, Moses B. (Supt., United Shoe Ma-
 chinery Co.)
 Hammond, Frank W., 153 Cabot
 Porter, A. J., 222 Cabot
BOSTON—Adam, Jas., 40 Water
 Adams, H. S. (Wharf & Dock Construction,
 etc.), Ames bldg
 *Agassiz, Alexander (Pres., Calumet &
 Hecla Mining Co.), 12 Asbburton pl
 Alexander, Harry, 120 Tremont
 Almy, Wm. F. (Mining), 50 Congress
 Ambursen Hydraulic Construction Co. (Hy-
 draulic Work, etc.), 176 Federal
 Ammidown, Albert M., 60 State
 Amster, Nathan L. & Co. (Mining), 79
 *Ashton, A. C., 271 Franklin Milk
 Aspinwall & Lincoln (Consulting & Survey-
 ors), 3 Hamilton pl
 Associated Mining Engineers Corporation
 (Mining), 50 Congress
 Atlantic Works (M. E.), 60 Border, E. B.
 Bainbridge, Randolph, 85 Devonshire
 *Baker, Chas. F. (Supt. M. P. & M., Bos-
 ton Elevated R. R. Co.), 439 Albany

Barbour, F. A., Tremont bldg
 Barnes, T. Howard, 7 Water
 *Barrus, Geo. H. (Expert & Consulting.
 Steam & Steam Plants), Pemberton sq
 Bates, W. O., 94 Green, J. P.
 Bayne, A. R. & Co. (Mining), 15 Court sq
 Beals, Wm. J. (Mining), 50 Congress
 Bell, Louis (Consulting), 120 Boylston
 Blake, Edmund N., 8 Beacon
 Blake, Geo. F. Mfg. Co. (Hydraulic), 156
 High
 Blanchard Machine Co. (M. E.), 64 State
 *Blood & Hale (Consulting, Electric Rail-
 way, Power & Lighting Plants, etc.), 10
 Post Office sq.
 Bowditch, E. W., 62 Devonshire
 Brackett, Dexter, 1 Asbburton pl
 Bradley, Wm. L., 84 State
 Branch, Ernest W., Tremont bldg
 Brooks, Frederick, 31 Milk
 Brown, Harold H. (Consulting), 38 Pearl
 Brown, Wm. S. (Consulting M. E.), 153
 Federal
 Buss, Edward A. (Consulting), 85 Water
 Carmichael, Henry (Mining), 15 Exchange
 Carson, Howard A., 15 Beacon
 Carter, Henry H. (Consulting), 95 Milk
 Cassidy, A. S., 62 Devonshire
 *Charnock, John F., 314 W 2d, S B
 *Childs, Eugene, 15 Armory av
 Churchhill, Percival M., 6 Beacon
 Cobb, J. T. (Consulting), 89 State
 Coffin, Freeman C. (also Hydraulic), 46 Corn-
 hill
 Coleman, M. P. (Consulting), 131 State
 Cook, Mayo T., City Hall
 Coyne, Jas. (M. E.), 121 Haverhill
 Crosby, W. O. (Consulting), Mass. Institute
 of Technology
 Cumnock, John (Mill M. E.), 186 Devonshire
 Curtis, Nelson (M. E.), 22 Congress
 Cutter, Louis F., 60 City Hall
 Dammerall, Jas. W. (M. E.), 94 High
 Davis, Edmund S., 15 Beacon
 Dean & Main (Consulting M. E.), 53 State
 Dickerman, Alton L. (Mining), 32 Green
 Dillaway, C. H. & C. W., 70 Kilby
 Dorr, Edgar S., 30 Tremont
 *Dowst, F. B. (Gen'l Supt., B. F. Sturte-
 vant Co.), Jamaica Plain
 Duquet, Asa M. (M. E.), 453 Atlantic av
 Dwyer, Edwin F., 47 Winter
 Ellis, Benj. W., 101 Milk
 Elliot, Chas. D., 59 Oxford
 *English & Flett, 226 Congress
 Eustis, A. H. (Mining), 131 State
 Eustis, F. A. (Mining), 131 State
 Eustis, W. E. C. (Mining), 131 State
 Evans, Geo. E., 95 Milk
 Farnum, Loring N. Co., Exchange bldg
 Felton, B. R. (also Hydraulic), 1121 Tre-
 mont bldg
 Forbes, Howard C., 4 State
 Foster, Frank A., 34 School
 Fraser, Robert H. (Consulting Marine),
 Broad Exchange bldg
 Fraser & Clark (Consulting), Chamber of
 Commerce bldg
 French & Bryant, 334 Wash. Brookline
 French & Hubbard (Consulting), 85 Beach
 Frizell, Jos. P., 75 Linden, Dor.
 Fuller, A. D. (Consulting), 3 Hamilton pl
 Fuller, Frank L. (Consulting, Civil & Hy-
 draulic), 12 Pearl
 Fuller, Whitney Survey's Corporation (&
 Surveyors), 15 Court sq
 Gannett, Chas. H. (& Surveyor), 53 State
 Geist, Frank W., 85 Water
 Gooding, Chas. S. (Consulting M. E. &
 Patent Solicitor), 28 School
 Guiler, J. & T. C. (M. E.), 10 Broad
 Hall, Fred'k P. (& Surveyor), 85 Devonshire
 Hancox, Benj., Jr., 1 Asbburton pl
 Hannan, Wm. E., 34 School
 Harriman Bros., Exchange bldg
 Harrington, Ephraim & Co. (Consulting C.
 E. & M. E.), 60 State
 Haskin, Chas. A. (Contracting), 16 City sq
 Hawes, Louis E. (Consulting, Civil & Hy-
 draulic), 101 Tremont
 Hersey, F. M., 62 Devonshire
 *Hibbard, Thos. (& Treas., Geo. Lawley &
 Son Corp.), 696 E 1st, S B
 Hill, R. H. Co. (M. E.), 70 Kilby
 Hodges & George (Consulting), 6 Beacon
 Hodges, Gilbert, Board of Trade bldg
 Hollingsworth, L., Jr. (M. E.), 54 Kilby
 Holt, S. L. & Co. (Construction M. E.), 191
 High
 Howe, E. W., 65 City Hall
 Howland, Albert H., 170 Tremont
 Hubbard & French, 85 Beach
 Huey, Geo., 7 Water
 *Hutchison, Richard (Mgr., Babcock & Wil-
 cox), 35 Federal
 Hyde, Danl. W. (& Surveyor), 15 Court sq
 Jackson, Wm. (City), 50 City Hall
 Jackson, Wm. H., 40 Chestnut
 Jacobs, Davis & Barringer (Consulting), 95
 Milk
 Johnson, Chas. H., 10 P. O. sq

Kelly, Wm., 306 W B'way
 *Kendrick, Paul H., Ingalls & Kendrick, 80
 Sudbury
 Keniston Engineering Co. (M. E.), 52 Wash-
 ington
 *Keough, Wm. T. (Consulting M. E.), 131
 State
 Kettell, C. W. (Consulting M. E.), 53 State
 Kimball, R. D. (Consulting), 6 Beacon
 Kitfield, Edw. H. (Consulting M. E., Elec-
 tric Railway & Lighting & Power Plants
 & bldgs.), 53 State
 *Lanza, Gaetano (Prof. Theor. & App.
 Mech., Mass. Inst. of Tech.)
 Lapworth, E. W., 14 Old Court House
 Lockwood, Green & Co. (Mill M. E.), 93
 Federal
 Lockwood Mfg. Co. (M. E.), 61 Sumner, E.
 B.
 Lombard, Walter E. (M. E. & Draughts-
 man), 7 Water
 Long, J. H. Machine Co. (M. E.), 184 High
 Lowe, N. M. (M. E.), 88 Court
 *Lowry, Geo. A. Engineering Co. (Consult-
 ing), 299 Marginal, E B
 McClintock, John N. (Consulting & C. E.),
 Old South bldg
 McClintock & Woodfall, 15 Court sq
 McLauthlin, Geo. T. Co. (M. E.), 120 Fulton
 McLean, Sidney W., 1196 Morton, L. M.
 Manley, Henry, City Hall
 Mann, Elmer G., 12 Pearl
 Manson, Daniel E. (Consulting M. E.), 131
 State
 Marden, H. H., Jr., 25 Bloomfield
 Metcalf, Leonard, 14 Beacon
 Metropolitan Contracting Co. (Consulting),
 95 Milk
 Mildram, H. C., Old Court House
 Miller & Franklin Co. (M. E. & Production
 Engineers), 319 Washington
 Morton, Chas. (& Consulting), 53 State
 Moses, H. H., 108 Dudley
 *Moulthrop, I. E., 516 Atlantic av
 *Nordland, Lawrence, 7 Water
 Norris, Fred'k A., 50 State
 Norris, W. H., North Station
 Osborne, R. W., North Station
 Palmer, Cecil H. (Prof. Marine Engrng. &
 *Peabody, Cecil H. (Prof. Marine Engrg. &
 Naval Architecture), 491 Boylston
 Pearson, Chas. A., 8 Waverly blk, Chsn
 Perkins, Chas. C., 25 Old Court House
 Pierce Barnes Co. (& Surveyors), 7 Water
 Pierce, Richardson & Neiler, 110 State
 Pierce, R. H., 110 State
 Pratt, D. W., 62 Devonshire
 Pray, Thos., Jr. (Civil, Electrical & Me-
 chanical, Consulting, Steam, Water &
 Electricity), 40 Water
 Puffer, Wm. L., Equitable bldg
 Punchard & Babson (Civil), Tremont bldg
 Purdy & Henderson, Paddock bldg
 Quimby, Ralph A. (Chief Engineer & Sur-
 veyor), 53 State
 Rice, David (M. E.), 87 Milk
 Rice, Jno. H. (& Surveyor), 15 School
 Rice, L. Fred., 125 Milk
 Rice, O. D., 84 State
 Rideout, H. Orville (Mining), 45 Milk
 Rogers, Edwin H., 8 Congress
 Savage, John C., 10 Oliver
 Savage, J. E., 14 Beacon
 *Schwamb, Peter (Prof. Mechanism & Dir.
 Workshop, M. I. T.), 491 Boylston
 Semple, W. J. C., 23 Old Ct. House
 Shaffer, Robert A. (Consulting), 101 Tremont
 Sbaw, Edw'd S. (Consulting M. E., Bridges,
 etc.), 12 Pearl
 Sheaff & Jaastad (Consulting M. E. & C. E.
 & Surveyors), 88 Broad
 Sherman, C. G. (Consulting), 131 State
 Sherman & Willis, Board Trade bldg
 Sherry, Frank E. (& Surveyor), 15 Court sq
 Skentelbery, Chas., 95 Milk
 Sleeper, Geo. E., 83 South
 Smith, Sidney, 91 Maple W R
 Snow, F. A. (& Surveyor), 166 Devonshire
 Snow & Barbour (Consulting, Water Supply,
 Sewage Disposal & Mechanical Analyses
 Sands, etc.), Tremont bldg
 Snow & Humphreys (Consulting), 85 Water
 Sonne, O. (& Surveyor), 68 Devonshire
 Spalding, Fred'k P., City Hall
 Sprague, Timothy W. (Consulting), 4 State
 *Stearns, Chas. K., 93 Federal
 Stearns, Herbert R., 108 Cushing av, Dor.
 Steele, Herbert B. (Consulting M. E.), 12
 Taylor, Lucian A., Tremont bldg Pearl
 *Tilden, Jas. A. (G. M.), Hersey Mfg. Co.,
 Tinkham, S. E., City Hall 314 W 2d
 Tompson, G. M., 6 Beacon
 Tucker, Edward A., 683 Atlantic av
 Turner, Edmund K., 53 State
 U. S. Geographical Survey, 6 Beacon
 *Walworth, Arthur C. (Pres., Walworth
 Constr. & Supply Co.), 100 Pearl

Waterman & Co. (Inc.) (Consulting), 131 State
 Webber, Wm. O. (Consulting M. E.), Exchange bldg
 Wenstrom, Olaf (Consulting Mining), 113 Devonshire
 Westinghouse, Church, Kerr & Co. (Consulting M. E.), 131 State
 Weston, Robert S., 14 Beacon
 Whaley & Co. (M. E.), Tremont bldg
 Wheldon, William & Co. (M. E.), 108 Dudley, Rox.
 Wetherbee, Geo. H., 15 Asburton pl
 Whiting, Chas. W. (M. E.), 53 State
 Whiting, Wm. H., 15 Court sq
 Whitman & Howard (Surveyor), 85 Devonshire
 Whitney, Frank O., 25 Old Court House
 Whittle, C. L. (Mining), 50 Congress
 Wilson, Hy. W., 190 Dorchester
 Wilson, Herbt. A., City Hall
 Winslow, David H., Ford bldg
 Winslow, Fredk. I., City Hall
 Wood, C. H. W. Co. (& Surveyors), 2380 Washington
 Woodbridge, S. Homer, 553 Boylston
 Woodman, Andrew W., 101 Tremont
 Worcester, J. R., 53 State
BRAINTREE—White & Wetherbee, Long's blk
BROCKTON—Barton, Loyal, 63 Main
 Chapman, Benj. R. (Asst. City)
 Felton, Chas. R. (City), City Hall
 Hayward & Howard, 15 Green
 Norris, T. A. Machine Co. (M. E.)
 Rogers, C. C. (M. E.), 254 Montello
 *Washburn, Wm. S. Churchill & Washburn, 11 Crescent
BROOKLINE—Appleton, Chase B., Netherlands rd
 *Bates, E. C., 38 Upland rd
 Fitzgerald, Desmond
 French Alexls H., Town Hall
 *Hirt, L. J., Grove c. South
 Smart, Rich. A., 683 Washington
CAMBRIDGE—*Bird, W. W. (Treas., Broadway Iron Foundry)
 Bowker, E. F. (& Surveyor), 671 Mass. av
 *Brooks, Edwin C. (Supt., Water Works), City Hall
 Hastings, Louis M. (City), City Hall
 *Hollis, Ira N. (Prof. of Engineering, Harvard Univ.)
 *Kendall, Jas. H., Edw. Kendall & Sons, 168 Main
 Leavitt, E. D. (M. E.), 317 Harvard
 Lombard, N. O. (M. E.), 40 State
 Mason, Wm. A. & Son (& Surveyors), 631 Mass. av
 *Mellen, E. D., 1590 Mass. av
 Norrls, A. E. (M. E.), 29 Main
 Sanvans, Albert (Metallurgical)
 Whiting, C. W., 68 Kirkland
CANTON—Endicott, Frederick
CLINTON—*Swinscoe, Chas. (Mgr., Clinton Wire Cloth Co.)
CHELSEA—Carr, Jos. R. & Sons, 466 B'way
CHICOPEE FALLS—Cobb, Frank P. (city), 332
CONCORD—Wood, Albert E. Grove
DANVERS—Bly, J. F.
DEDHAM—Smith, Nathaniel & Co.
 Worthington, Erastus
DEERFIELD—Arms, Richard
DORCHESTER—Peters, E. D. (Mining)
FALL RIVER—Beattie, Roy H., 57 N Main
 Corbett, Edward M. (& Surveyor), 29 Bedford
 Dyer, David H. & Son (& M. E.), 7 Pocasset Bank bldg
 Hart, O. W. (M. E.), 151 Rock
 *Henry, Wm. T. (& M. E.), 30 Borden blk
 Marvell, Edw. I. (& Surveyor), 29 Bedford
 Wolstenholme & Buffington (& Surveyors), 58 Bedford
FITCHBURG—Bailey, Wm. K., 117 Main
 Raymond, George, 387 Main
FRAMINGHAM—Frost, C. J.
 Van Valkenburgh, J. J.
FRANKLIN—Taft, Stephen C. (& M. E.)
GARDNER—Lee, E. M.
GREENFIELD—Barton, L. G.
 Clapp & Abercrombie, Pond's blk
 Day, O. J.
 Walcott, Charles T.
HAVERHILL—Evans, Robt. R. (City), City Hall
 Desmond, J. T., 210 Merrimac
 Littlefield, J. M., 69 Merrimac
 Spofford, Nelson, 14 Water
HINGHAM—Foster, Walter B.
HOLYOKE—*Bellows, Lewis E. (Treas., Barlow Mfg. Co.)
 Ellsworth & Kirkpatrick (Consulting, Mfg. Plants, Water Supply, Sewage Disposal, Water Power, etc.), 18 Dwight
 *Green, Samuel M. (Mech. Engineer, American Thread Co.)
 Hills, Chas. H.
 Mann, T. W., 35 Hampden
 Tighe, Jas. L. (city), City Hall

HOPEDALE—*Day, Chas. M. (Gen'l Supt., Draper Co.)
HYDE PARK—*Fairbairn, W. U., 12 Green
 Hammett, E. A. W., 10 Neponset blk
 Norrls, C. G., 45 Water
 Richardson, Geo. L.
LANCASTER—Parker, Harold
LAWRENCE—Crosby, Wm. W. (M. E.) (Prin., Lowell Tech. School)
 Franklin, John, 316 Essex
 Hudson, Chester E., 246 Essex
 Littlefield, Chas. H., 234 Essex
 Slostrom & Franklin, Central bldg
LEOMINSTER—Gates, John W.
LOWELL—Bowers, George (City), City Hall
 Evans, Geo. E., 328 Wilder
 *Hildredth, Chas. L. (Supt., Lowell Mach. Shops)
 Hill, Nathaniel (& Surveyor), 228 Worthen
 Osgood, Orin F., 228 Worthen
 Smith & Brooks (& Surveyors), 26 & 27 Hildredth bldg
 Snell, Ora M. (& Surveyor), 295 Central
LYNN—Eastman & Bradford (& Surveyor), 38 Exchange
 Gay, Charles W. (& Surveyor), 25 Exchange
 Harris, I. K. (& Surveyor), 59 Exchange
 Hemingway, A. C. Machine Co. (M. E.)
 Leland, Geo. I. (City), City Hall
 Rogers, H. E., 38 Exchange
 Winkley, E. E. & Co. (M. E.)
MALDEN—Mirick, Geo. L., 17 Pleasant
 Sargent, Albert, 425 Main
 *Tenny, Albert B. (Sec'y, Malden Elec. Co.)
MANCHESTER—Raymond, C. Allen
MARLBORO—Bigelow, Jas. F. (Consulting)
MEDFORD—Goodwin, Jas. O., 28 Main
MELROSE—Stevens, Walter C.
METHUEN—Howe, Jos. S.
MILLBURY—Garfield, Moses D.
MILTON—Churchill, W. W., Associates bldg
 Hall, Fred'k P.
 Sigmoney, Harry H. W.
MONTAGUE—Clapp, Abercrombie, Turn's Falls
NATICK—*Gale, Horace B. (Consulting & Electrical)
NEW BEDFORD—Coggeshall, R. C. P. (Supt., Water Works)
 Drake, Albert B. (& Surveyor), 164 William
 Metcalf, Frank M. (& Surveyor), Merchants Bank bldg
 *Stetson, Geo. R. (Pres., New Bedford Gas & Edison Light Co.)
 Williams, Wm. F. (city), 76 Pleasant
NEWBURYPORT—Dame, Luther, 73 State
 Langdon, G. W., 6 Park
NEWTON—Blake, Percy M., 85 Wash'n N'ville
 Sawyer, Edw.
 Smille, Edward S., 429 Centre
 Thompson, Sanford E., 63 Hartford, N. H.
 Wight, Willard W., N. C.
NORTH ADAMS—Emigh, Jno. H., Dowlin blk
 Gardner, Roswell (City)
 *Hunter, Jas. D. (Vice Pres., Hunter Machine Co.)
 Locke, F. B. (City)
 Smith, *Frederick S., 57 Main
NORTHAMPTON—Davis, E. G. & E. E., 73
 Patterson, Malcolm D., 63 Centre Main
 Pomeroy, W. C. & Co. (M. E.)
 Thacher, L. M. (City), 59 Main
NORTH ATTLEBORO—Westcott, F. T.
NORWELL—Smith, Geo. A.
NORWOOD—Smith, Geo. A.
 Smith, Geo. A.
PALMER—Ball, Edwin P.
 Bralnard, Wm. H.
 Gager, Luther H.
PEPPERELL—Blood, Lorenzo P.
 Tarbell, Geo. G.
PITTSFIELD—Barnes & Jenks, 28 West
 Forbes, A. A.
 Jones, E. D. & Sons Co. (M. E.)
 *Smith, Frederic S., 150 North
PLYMOUTH—Holmes, C. H., S Pond
 Sampson, Levi R.
 Sears, Walter H.
QUINCY—Branch, E. W., Adams bldg
 Flood, Hamilton (City)
 Lawton, Perry, 145 Hancock
 Whitman, Herbert T., Adams bldg
RANDOLPH—Clark, Dexter
READING—Bancroft, Jas. A.
ROCKLAND—Howland, Chas. W.
 Torrey, W. Archer
ROCKPORT—Pool, Calvin W.
 Wires, H. P.
SALEM—Bellows, Ephraim H. (M. E.), 39
 Cook, Henry, 1 Central
 Foster, Joseph, 237 Essex
 Bleckford, J. H. (M. E.), 209 Essex
 *Hunting, A. A. (Consulting), 26 Mason
 Metcalf & Ashton, 39 Church
 Nichols, Andrew, Court House
 Putnam & Ricker, 251 Essex

SAUGUS—Hancock, B. F.
 Hawkes, Levi G.
SOMERVILLE—Bailey, E. W. (City), City Hall
 *Boyer, C. W. & F. H. (M. E.), Hill bldg
 Elliott, C. D., 59 Oxford
 Elliott, C. J., 59 Oxford
SOUTHBRIDGE—Moore, A. C.
 Whittaker, Jno. A.
SPENCER—Craig, Geo. A. & Son
SPRINGFIELD—Adams, Arthur A. (Supt. of Streets)
 Allen, George B., 432 Main
 Ball, E. B. & J. P., 10 Cornell
 Barker, J. K., 332 Main
 Durkee, White & Towne, 292 Main
 Merrill, Geo. N. & Co. (Consulting), 292 Main
 Newton, Chester P. (M. E.), 641 Chestnut
 *Rider, Thos. J., 51 Taylor
 Seymour-Clark-Hills Co. (& Surveyors) 68 Bridge
 Slocum, Charles M. (city), 43 Bridge
 Sprague, Harry L. (M. E.), 310 Main
SWAMPSCOTT—Eastman, F. H.
TAUNTON—Dean, Luther, Crocker bldg
 King, Geo. A. (City), City Hall
 Williams, Geo. L., 151 Weir
TOWNSEND—Stickney, A. F., W. T.
TUFTS COLLEGE—*Anthony, Gardeuer C. (Prof. Tech. Drawing)
UXBRIDGE—Aldrich, Ashahel F.
 Pratt, Daniel
WAKEFIELD—Cutter, Frank P.
 Hawes, L. E.
WALPOLE—Grover, Edmund
 Robbins, Dana W.
WALTHAM—Cutting, Geo. W. (C. E.)
 Hobbs, Geo. E. (M. E.)
WARE—Eaton, Wm. C.
WATERTOWN—*Day, E. W. (M. M., Hod Jackson, Chas. F. River Co.)
WEBSTER—Clarke, Henry J.
 Wakefield, B. A.
 Whittaker & Berger
WELLESLEY—Fuller, Frank L.
 Sawyer, Walter H.
 Taylor, Chas. N.
WESTFIELD—Kent, Willard
 Parks, Oren E. (City), Town Hall
 Thayer, L. F. (& Surveyor), E. Silver
 Tinker, C. H.
WEST NEWBURY—Brown, Gilman W. (M. E.)
WILLIAMSTOWN—Walker, Alex.
WINCHENDON—*Whitney, Baxter D.
 *Whitney, Wm. M.
WINCHESTER—Fletcher, Elmer D. (Town)
 *Leland, S. D. (Supt., United Shoe Mach. Co.), McKay Dept, Factory
 Pratt, Daniel W.
WOBURN—Hartshorn, G. F.
 Parkhurst, E. B. (M. E.), 12 Buel pl
 Smith, J. W. (M. E.), 9 Union
WORCESTER—Alden, Geo. I. (Consulting), West Boylston
 Allen, Chas. A. (Consulting), 44 Front
 *Barnum, Dana W. (Supt. Distribution, Worcester Gas Light Co.), 240 Main
 Browning, H. H., 405 Main
 *Burbank, L. S., 66 Bakon
 Buttrick & Pratt, 706 State
 *Daniels, Fred. H. (Chief Engineer, American Steel & Wire Co.), 94 Grove
 McClure, Fred'k A. (City), City Hall
 Moore & Smith, 75 Grove
 *Morgan, Chas. H. (Pres., Morgan Constr. Co. & Morgan Spring Co.), 21 Lincoln
 *Morgan, Paul B. (Sec'y, Morgan Cons. Co.), 21 Lincoln
 Parker, Chas. D. (M. E.), 22 Cypress
 Parsons, S. B. (Surveyor), 50 Apricot
 Rawson, L. W. (M. E.), Supt., Worcester Poly. Inst.
 *Reed, Edgar (Pres., Reed & Prince Mfg. Co.)
 *Rice, A. C. (Consulting & M. E.), 340 Main
 Rockwood, George I. (M. E.), 62 Summer
 Rugg, O. Willis (& Surveyor), 340 Main
 *Smith, Harold B. (Prof. Elec. Engineering, Worcester Poly. Inst.)
 Thompson, W. I., 340 Main
 Thompson & Gallagher (Consulting C. E. & M. E.), 339 Main
 Tolman, E. F. (M. E.), 18 Catharine
 Trihe, Geo. T., 339 Main
 *Washburn & Garfield Mfg. Co.
 Woods, Arthur W., 518 Main
 *Wyman, Horace (Vice Pres. & Gen'l Mgr., Crompton Loom Works), 126 Green

MICHIGAN

ADRIAN—Blair, James
 King, H. N.
 Phillips, F. R. (Surveyor)
ALLEGAN—McDougall, Hugh
ALPENA—Comstock, D. S.
 Kline, L. T. (M. E.)
 McNeil, J. W.

ANN ARBOR—*Allen, Jno. R. (Asst. Prof. Mech'l Eng'r, Univ. of Michigan)
 *Cooley, M. E. (Prof. Mech'l Eng'r, Univ. of Mich.)
 Groves, E. W. (City)
 BAD AXE—McFadden, Duncan
 Stendwick, Hy
 BATTLE CREEK—Hunt, E. U. (City)
 Ularhoff, A. L.
 Whitney, H. K.
 BAY CITY—Bloomshield, John (Consulting. Waterworks, etc.), Shearer blk
 Carney, Maurice P. (M. E.)
 Garland, Harrison W. (M. E.)
 Johnston, J. M. (Surveyor), Union blk
 Kelly, J. A., 25th bet B'way & Marsac
 Thompson, Henry C. (Consulting), 605 Ohio
 Turner, Geo. E. (Co. Surveyor), City Hall
 Wilcox, Geo. B. (Consulting M. E. & Patent Attorney)
 BELLAIRE—Jenkins, J. R.
 BENTON HARBOR—Downer, S. B. (M. E.)
 BESSEMER—Baker, H.
 Rupps, Geo.
 BIG RAPIDS—Roben, D. B. & Co.
 June, L. W.
 BRONSON—Hamilton, Chas.
 CADILLAC—Teed, A. J. & Son
 Teed, D. E.
 CALUMET—Scott, Donald M., Laurium
 CARO—Brumley, L. M.
 CASSOPOLIS—Haines, J. S. (Co. Surveyor)
 CHARLEVOIX—Nettleton, D. C.
 Robinson, E. K.
 CHARLOTTE—Newcomb, M. E.
 CHEBOYGAN—Bowen, David
 Rollo, G. V. D.
 Thompson, W. C.
 Ward, M. E.
 COLDWATER—Hamilton, Chas.
 CORUNNA—Joslin, E. F.
 CRYSTAL FALLS—Baker, Henry
 Eggleston, Seymour
 DETROIT—American Car & Foundry Co. (M. E.), 445 Ferry av
 *Ames, Jos. H. (McDonald, Wessels & Ames Co.), 29 Washington av
 Barthel & Barthel (M. E.), 37 Congress av
 *Baugh, S. A. (& Mining), 118 23d
 Baxter & Young (M. E.), Wayne County Sav. Bank bldg
 Bothfeld, Chas. C. (Consulting), Penobscot bldg
 Brown, M. L. & Co., 821 Cham of Com
 *Brush & Allen (Consulting M. E.), Penobscot bldg
 *Calder, C. B. (Supt., Detroit Ship Building Co.), ft of Orleans
 Campau, Thos. & Son, Campau bldg
 Conant, W. S. (Consulting M. E.), Hammond bldg
 Comstock-Haigh-Walker Co. (M. E.), Campau bldg
 Copeland, A. W. (& M. E.), Wayne County Sav. Bank bldg
 Courtis, Wm. M. (Mining), Hammond bldg
 Detroit River Iron Works (M. E.), 655 Atwater
 Detroit Testing Laboratory (Mining), Union Trust bldg
 Dow, Alex. (M. E.), (Gen'l Mgr., Edison, Ill. Co.), 18 Washington av
 Duffield, M. S. (Mining), Union Trust bldg
 *Dunlap, Frank M., 260 Hancock av
 Eberts, H. F. (Consulting M. E.), 54 Henry
 Emde & Reidelbach, 510 Humboldt av
 Field, Hinchman & Smith (Consulting M. E.), 710 Washington Arcade
 French & Russell (C. E. & Consulting), Moffat bldg
 Glock & Thomas (Consulting & Constr. C. E. & M. E.), 260 Randolph
 Hall, Henry J., 181 McGraw av
 Henry, D. F. (Consulting), 52 Woodward av
 Jerome, Edwin, 61 Washington av
 Joy & Barcroft (Consulting M. E.), Ferguson
 Keating, P. W., 149 Harrison av
 King, W. C., 12 Moffat bldg
 *Kirby, Frank E. (Consulting M. E.), 555 Woodward av
 Limbacher, Joseph (M. E.), 60 Woodbridge
 McCormick, Robt. H., Jones bldg
 Middleditch, Benj. (M. E.), 103 Meldrum av
 Munro Bros. (M. E.), 187 Jefferson av
 Murdock & Hagen (M. E.), Tolsma bldg
 Murray, T. P. (Mining), 118 Westminster av
 Parker, Wm. S., Hammond bldg
 Ray, F. O. (City), Peninsular Bank bldg
 Russell, W. O. (D. U. Ry), 590 Champlain
 *Russel, Walter S. (Vice Pres., Russel Wheel & Foundry Co.), 863 Jefferson av
 Thomas, S. E. & Co. (Consulting M. E.), Buhl bldg
 Van Tuyl, Frank F. (M. E.), Union Trust bldg
 Walker Motor & Machine Co. (M. E.), 109 Fort, E.
 Well & Shaw (Consulting), Union Trust bldg
 Westinghouse, Church, Kerr & Co. (Consulting C. E. & M. E.), Penobscot bldg

Whitehead & Kales Iron Works (M. E.), Beecher av & M. C. R. R.
 Wilmarth, M. M., 18 McGraw bldg
 Wismer, C. E. (M. E.), Cham of Com bldg
 Wisner, G. Y., 608 Wayne County Sav. Bank bldg
 Wormer, C. C. Machinery Co. (M. E. Contracting for Complete Power Plants), 99 W. Woodbridge
 Wray-Austin Machinery Co. (Inc.) (M. E. Contracting for Complete Power Plants), 171 Woodbridge av, W.
 ESCANABA—Craig, John S.
 Palmer, Cornelius
 Royce, Eli P.
 FENTON—McCalmon, John
 Walker, M.
 FRANKFORT—Pettit, J. A.
 FREMONT—Anderson, D. G.
 GAYLORD—Hoffman, D. M.
 McCallummore, E. F.
 GLADWIN—Doane, G. W.
 GRAND HAVEN—Peck, E. H.
 GRAND MARAIS—Roundtree, Jas.
 GRAND RAPIDS—Anderson, L. W. (City), 12 Eureka av
 Annable, Fitzgerald Engineering & Mfg. Co., Michigan Trust bldg
 Baird, E. H., 13 Park av
 Bradfield Engineering Co. (M. E.), 2 Huron
 Christ, E. H., Norris bldg
 Hauser, Owen & Ames, 121 N Ottawa
 Hawes, J. J., Jr., Michigan Trust bldg
 Holmes, A. L., 574 Wealthy av
 McVean & Northrup (Consulting), Housman bldg
 Phoenix Sprinkling & Heating Co. (M. E.), 106 S Division
 Rumsey, Jas. L., 374 Grandville av
 Rusche, J. P., 4 Portsmouth ter
 Skeels, Dorr, 221 Houseman bldg
 *Tower, Daniel W. (Pres., Grand Rapids Brass Co.), 156 Court
 GRAYLING—Blanshaw, Wm.
 Newman, A. R.
 GREENVILLE—Caukin, H. M.
 HARBOR BEACH—Tucker, J. H.
 HARBOR SPRINGS—Palmer, Marion (Surveyor)
 Swift, John (Surveyor)
 HART—Hyde, E. M.
 Wetmore, F. F.
 HASTINGS—Bateman, A. N.
 HILLSDALE—Mark, G. A.
 HOLLAND—Huntley, Alfred (M. E.)
 Price, James
 HOUGHTON—*Burgan, A. L. (Supt., Isle Royal Copper Co.'s Stamp Mill)
 Dengler, Theo.
 Edwards, J. P.
 Pryor, R. C. (Mining)
 Sanders, C. W. (M. E.) (Chief Eng'r, Copper Royal R. R.)
 HOWELL—Bullock, M. W.
 INGHAM—Well, Chas. L. (M. E.) (Prof. Mech'l Eng., Mich Agr'l College)
 IONIA—Crawford, D. C.
 IRON MOUNTAIN—Armstrong, Herbert
 IRONWOOD—Gondie, J. H. (Mining)
 ITHACA—Harrod, J. H.
 Redman, E. W.
 JACKSON—Brown, C. W. (M. E.), 114 W Trail
 Cowham Engineering Co. (Consulting & Contracting M. E. for Complete Power Plants of All Kinds)
 Fargo, Wm. G., 117 E Cortland
 Frost, J. B., 184 W Main
 KALAMAZOO—Albertson, D. J.
 Pierson, Geo. S. (Consulting, Water Supply, Sewerage & Sewage Disposal)
 Strong, E.
 Taft, Miner C., 723 Staple av
 KALKASKA—Nicholson, Louis (Co. Surveyor)
 LAKE LINDEN—*Coggin, Fred'k G. (Supt., Calumet & Hecla Stamp Mills)
 L'ANSE—McKercher, James
 LANSING—*Bement, Clarence E. (Supt., E. Bement & Sons)
 LAURIUM—Scott, D. M.
 LUDINGTON—Mitchell, C. E.
 Towns, R. O.
 MANCELONA—Jenkins, Joseph R.
 MANISTEE—Baker, S. H.
 Hubbell, J. J.
 MARINE CITY—McKenzie, J. E.
 MARLETTE—Arthur, C. W.
 MARQUETTE—Cummings, Chas.
 Cummings, G. P. & Son
 Payne, H. J.
 MARSHALL—Courtright, P. A. (City)
 Joy, P. S.
 MASON—Meech, E. R.
 MENOMINEE—Hass, Albert (City)
 MIDLAND—Gibbs, F. T.
 Jenny, C. L.
 Olmstead, Sherman

MOUNT CLEMENS—Fessenden, Cortez
 Irwin, J. W.
 Sackett, L. M.
 MOUNT PLEASANT—Coburn, E. R.
 MUSKEGON—Abbott, Jno. C. (Surveyor)
 *Masou, H. I. (Supt., Shaw Elec. Crane Co.)
 NEWAYGO—Jacques, Wm. M. (Co. Surveyor)
 NEWBERRY—Metcalf, C. W.
 NORWAY—Hallberg, G. A.
 ONTONAGON—Oley, Chas. (Co. Surveyor)
 Parker, A. F.
 OWOSSO—Byerly, Chas. A. (M. E.)
 Main, H. C.
 PAW PAW—Mutchler, George
 PENTWATER—Grant, Hobart A.
 PETOSKEY—Benham, Geo. W. (M. E.)
 Heyden, O. S.
 Palmer, Marlon
 PONTIAC—Fisher, Wm. J.
 Serrell, S. J.
 Slater, F. A.
 PORT HURON—Dauger, Chas.
 Kaumeier, Jno. C., Jr. (Consulting M. E.)
 Paldi, Justin L.
 *Weber, Otto L. E. (Mgr., Michigan Sulphite Fibre Works)
 RICHMOND—Burgess, O. S.
 ROMEO—Fessenden, C. P.
 SAGINAW—Fischer, J. G. (M. E.), 216 N Franklin
 Holmes, Chas., 501 S Park, E. S.
 Lamar, H. H. (City), 109 Laper av
 Leavenworth, I. H., 126 N Harrison
 Roberts, R. W., 11 N Wash'n av
 Sears, Wm. B. (Consulting), 614 N 7th
 ST. CHARLES—Tefft, J. G.
 ST. CLAIR—Poole, Mandeville
 ST. IGNACE—Cubley, B. E.
 McElroy, Michael
 ST. JOHNS—Clemons, J. F.
 Eddy, Chas.
 ST. JOSEPH—Cleary, Will J.
 SAULT SAINT MARIE—Brown, Fred. II.
 Lawrie, J. A. (City)
 Thompson, H. C. (City)
 STANDISH—Carscallen, G. T.
 STANTON—Caukin, H. M.
 THREE RIVERS—*Howard, Geo. E., P. O. Box 286
 TRAVERSE CITY—Allyn, E. H. (Co. Surveyor)
 Blomshield, Jno. (City)
 TRENTON—*Church, Austin (Sec'y, Sibley Quarry Co.)
 WEST BAY CITY—Bloomshield, J. H. (City). Mosher blk
 Thompson, H. C., Fisher blk, Midland
 WEST BRANCH—Galbraith, J. W.
 WILLIAMSTON—Mullett, J. H.
 YPSILANTI—Allen, Jerome
 Woodward, C. S.

MINNESOTA.

ADA—McKenzie, Alex.
 AITKEN—Armstead & Kelly
 ALBERT LEA—Barneck, Wm.
 Fisk, F. H.
 ALEXANDRIA—Abercrombie, John
 AUSTIN—Clausen, M. N.
 Nason, V. A.
 BARNESVILLE—Butler, Nathan
 Malers, N. N.
 BEMIDJI—Stoner, M. D.
 BENSON—Lawson, L. H.
 BLUE EARTH—Remington, F. E.
 BRAINERD—Bartlett, J. F.
 BRECKENRIDGE—Flynn, J. T.
 BROWNS VALLEY—Rutledge, Edw.
 BUFFALO—Blom, A. A.
 CALEDONIA—Briggs, E. S.
 CHASKA—Neustel, Conrad
 CROOKSTON—Arnold, W. F.
 Carroll, J. E.
 Hamery, O. J.
 Ralph, G. A.
 DETROIT CITY—Morton, Wm. R.
 DULUTH—Duluth Engineering Co. (Consulting), Palladio bldg
 Hovland, H. B. (Mining), Lonsdale bldg
 *Hugo, T. W. (Consulting M. E.), Board of Trade bldg
 Lammers, T. L. (Mining), Manhattan bldg
 McGilvray, T. F. (City), City Hall
 Nichols, Raymond W., Manhattan bldg
 Northwestern Engineering Co. (Consulting C. E., M. E. & Mining), Lyceum bldg
 Paddock, L. E. (Mining), 18 W 3d
 Reed, D. A., 308 Providence bldg
 Wessinger, Henry J. (M. E.), Oliver Iron Mining Co.
 EVELETH—Bailey, C. E.
 FAIRMONT—Sawyer, G. E.
 FARIBAULT—Reed, C. A.
 FERGUS FALLS—Aalberg, Martin
 Blegen, Hans
 GLENCOE—Dieter, E. A.
 Hankenson, J. J.
 GLENWOOD—Kinney, K. J.

GRAND RAPIDS—Murchie, Jas.
 GRANITE FALLS—Norgaard, John
 HASTINGS—Forbes, C. A.
 Lowell, C. B.
 HENDERSON—Mullen, S. F.
 HIBBING—Carlson Exploration Co. (Mining)
 Longyear, E. J. (Mining)
 Silliman, A. P. (Mining)
 HUTCHINSON—Dean, John
 JACKSON—Buckle, Chas.
 LE SUEUR CENTER—Sofberg, Edwd.
 LITCHFIELD—Taylor, N. Y.
 LONG PRAIRIE—Sargent, S. S.
 LUVERNE—Harvey, H. E.
 MADISON—Lofffield, Berner
 Clark, H. E.
 MANKATO—Brooks, W. F.
 Haynes, M. B. (Consulting)
 Thompson, J. R. (City)
 MARSHALL—Hawkins, W. A.
 MILACA—Milton, E. V.
 MINNEAPOLIS—Abbott, E. T., Globe bldg
 Briggs, O. P. (M. E.), 500 Corn Exchange
 Buehler, Walter (Kettle River Quarries Co.)
 Burch, E. P., Guaranty bldg
 Cappelen, F. W. (Consulting), Globe bldg
 Dahl, P. M., the Phoenix
 Egan, James E. (& Surveyor), 10 S 3d
 Elftman & Cull (Mining), Globe bldg
 Fanning, J. T. (Consulting), 602 Kasota bldg
 Fanning, R. B., 602 Kasota bldg
 Garbett & Schneider (M. E.), Power bldg
 Jensen, James (M. E.), 618 Corn Exchange
 Lagaard, Theo., 601 Globe bldg
 Longyear, E. J. (Mining), N. Y. Life bldg
 Lovell, Walter D. (Consulting), 415 S. 8th
 Nelson, Anton, 404 Century bldg
 Nutter, F. H., Jr. (& Surveyor), 710 Sykes
 Shepley, C. R., 2607 Chicago av
 Small, J. S. (Consulting), 1520 Hennepin
 Sublette, Geo. W., 2616 1st av, S.
 Turner, C. A. P., The Phoenix
 Woodbury, F. D., 1126 Plymouth av
 MONTEVIDEO—Moyer, L. R.
 Moyer, S. L.
 MOORHEAD—Butler, Nathan
 MORRIS—Wheaton, D. T.
 NASHWAUK—Longyear, E. J.
 NEW ULM—Boock, Geo.
 OLIVIA—Johnson, C. G.
 ORTONVILLE—Chapman, R. H.
 OWATONNA—Brown, F. C.
 Darrt, H. S.
 PARK RAPIDS—Berg, Lewis A.
 PINE CITY—Hamlin, W. H.
 PIPE STONE—Pierce, J. W.
 PRESTON—Case, H. H.
 PRINCETON—Milton, E. V.
 RED WING—McKinstry, W. R.
 REDWOOD FALLS—Bigham, D. L.
 RENVILLE—Johnson, C.
 ROCHESTER—Armstrong, Chas. G.
 Fraser, Wm. C.
 RUSH CITY—White, J. E.
 Chute, S. S.
 SAUK CENTER—Frankenfield, A. (M. E.)
 Leovaas, J. G. (M. E.)
 ST. CLOUD—Morgan & Morgan (Consulting)
 ST. JAMES—Nichols, E. E., Drainage, etc.)
 ST. PAUL—Armstrong, J. H., 16 Court House
 Brayton Engineering Co., N. Y. Life bldg
 Clark, H. E., Nat'l G. A. Bank bldg
 Claussen, Oscar (Consulting), Nat'l G. A.
 Bank bldg
 Dwyer Plumbing & Heating Co. (M. E.),
 Forbes, C. A., 503 Court blk 108 W 3d
 Fowble & Fritz (& Surveyors), 34 Union blk
 Hoenck, Edw. (& Surveyor), Bradley bldg
 Irvine, J. B. (& Surveyor), Globe bldg
 Johnson, G. A., 231 W 9th
 Loweth & Wolff (Consulting), 1st Nat'l Bk
 bldg
 *Lyon, Tracy (Ass't Gen'l Mgr., Chicago &
 Great Western R. R.)
 Morris, Chas. J. A., Globe bldg
 Morton, G. R. (Consulting), National G. A.
 Bank bldg
 Palmer, W. H. (Consulting M. E.), Pioneer
 Press bldg
 Pillsbury, C. L. (Consulting), 343 Main
 Rundlet, Leonard W. (Com. of Public
 Works), 78 City Hall
 Sewall, J. S., 958 Eustis
 Simpson, G. T. (Consulting), Pioneer Press
 bldg
 Swenson, H. A. (& Surveyor), Endicott bldg
 Tanner, K. & R. (& Surveyor), 385 Grove
 ST. PETER—Daniels, H. W.
 SHAKOPEE—Hilgers, Jno.
 STILLWATER—Clarke, L. W.
 Shepard, Myron
 THIEF RIVER FALLS—Smiley, W. C.
 TWO HARBORS—Kempfer, Frank
 VIRGINIA—Lamont, J. D. (Mining)
 WABASHA—Beatty, Geo.
 Cook, L. O.
 WADENA—Bean, P. O.

WARREN—Wood, J. K.
 WASECA—Smith, O. L.
 WILLMAR—Day, J. S.
 WINDOM—Gove, G. W.
 WINNEBAGO CITY—Weir, G. A.
 WINONA—Burns, E. C.
 Coleman, G. P.
 WORTHINGTON—Smith, M. S.

MISSISSIPPI.

BILOXI—Morrill, E. W.
 Walker, John
 CLARKSDALE—Dabney, T. G.
 Head, W. L.
 JACKSON—Dudley, Chas. (M. E.)
 Kirkpatrick, W. G. (City)
 MAGNOLIA—Kramer, Xavier A.
 NATCHEZ—Dalgarn, L. M. (City)
 SCRANTON—Sturtevant, C. W.
 VICKSBURG—McFarland, C. R.
 Pierce, A. L.
 Searles, J. M.
 WEST POINT—Hall, Thos. V. (Consulting)
 YAZOO CITY—Smith, Ezra

MISSOURI

BETHANY—Werminger, J. J.
 BEVIER—McCullom, Frederick (M. E.)
 BOONVILLE—Ollison, Clarke
 Ravenal, S. W.
 Trent, W. W.
 BROOKFIELD—Gilchrist, E. M.
 BUTLER—Haggard, D. L.
 Johnson, R. E. (Country)
 CARTHAGE—Grieh, Victor
 Jackson, C. S.
 King, D.
 COLUMBIA—Quinn, P. S.
 Watts Engineering Co.
 FAYETTE—Dunaway, E. E.
 Wisely, John D.
 FULTON—Cave, John C.
 GALLATIN—Lockbridge, Geo.
 GLASGOW—De Witt, W. R.
 Fox, S. Waters
 GRANT CITY—Tandy, Benjamin
 GREENFIELD—Long, A. M.
 HANNIBAL—Moltz, A. C.
 HIGGINSVILLE—Turman, S. F.
 HUNTSVILLE—Balthis, Frank S.
 INDEPENDENCE—Jones, R. H.
 Pendleton, H. H. (City).
 JACKSON—Bean, L. M.
 Brooks, J. F.
 JEFFERSON CITY—Dewey, Chas. E.
 Harding, E. F. C. (City)
 JOPLIN—Church, L. C. (Consulting)
 Dorman, Andrew F.
 McKee, S. J. (City)
 Miles, Orson E.
 Nicholson, Frank (Consulting)
 KAHOKA—Ingold, S. F.
 KANSAS CITY—Abercrombie, H. B.—(Co. Sur-
 veyor), 3641 Bell
 Albright, Porter, 214 W 15th
 Babiczky, J. S. (Consulting), Guardian Trust
 Co. bldg
 Barnett, R. C., K. C. Life bldg
 Beard, Edw. J., 3928 McGee
 Bendit Mercantile Engineering Co. (Inc.)
 (M. E.), 1228 W 11th
 Blodgett, A. M., Thayer bldg
 Bontecou, Dan'l, Postal Telegraph Bldg
 Brown, Edw. A., 3229 Paseo
 Burns, Clinton S. (Consulting), Dwight bldg
 Burns & McDonnell (Municipal Work, etc.),
 Dwight bldg
 Cason & Barrett (Consulting M. E.), Dwight
 Chollar, Byron E., 2840 Troost
 Cudworth, Axtell & Co., K. C. Life bldg
 Curtis, E. B. (Mining), Bank of Commerce
 Donnelly, Jno., 401 Whittier pl
 Drinkard, B., Dwight bldg
 Elkins, J. T. (Mining), 2531 Troost
 Engineering & Contracting Co., 816 McGee
 Farnsworth, E. L., 1328 B'way
 Filley, Hart H., 2816 Campbell
 Fox & Smith (Consulting), K. C. Life bldg
 Fratt, F. W., Shukert bldg
 Freeborn Eng. & Const. Co. (Consulting), 708
 *Gambol, C. W., 604e 38th
 Heist bldg
 Great Western Mfg. Co. (M. E.), 1223 Union
 av
 Gregg, W. S. (Consulting), Postal Tel. bldg
 Gunter, E. T., 510 Brooklyn
 Harmon, W. L., 23 W 31st
 Harrison, Walker & Taylor, New Nelson
 bldg
 Hervey Machine Works, 408 Grand av
 Hoover, J. W., 514 N. Y. Life bldg
 Jansen, L. H. (Mining), Am. Bank bldg
 Kansas City Eng. Co. (M. E.), Postal Tel
 bldg
 Kiersted, Wynkoop, 58 Water Works bldg

Knight, Thos. (Consulting), Gibraltar bldg
 Koehler Bros. (& Surveyors), Essex bldg
 Koehler, Oscar R. (Surveyor), 6 Court House
 Lee, J. R., 515 Main
 McCarty, R. J., 3820 Warwick boul
 McDonnell, Robert E. (Consulting), Dwight
 bldg
 Malcomson, Jas. W. (Consulting), 1 Bryant
 Mitchell, S. A., Bryant bldg
 Mohn, Richard, Postal Tel. bldg
 Moreland, J. H. (Mining), 14 W Mo. av
 Morgan Machine & Eng. Co. (M. E.), 1422
 Walnut
 O'Flaherty, F. P., Ricksecker bldg
 O'Flaherty, Daniel, 1016 Olive
 Orr, Robert B. Engineering Co., Shukert
 bldg
 Palmer, W. K. (Consulting M. E.), Dwight
 Pearce, G. J., 2408 Olive
 Pennell, Arthur (M. E.), Heist bldg
 Priestly & Edson (M. E.), K. C. Life bldg
 Sageman, G. C., 1104 Summit
 Sampson, C. C. (M. E.), K. C. Life bldg
 Todd, F. H., 518 Colorado
 Tuttle & Pike (& Surveyors), 600 Baird bldg
 United States Engineering Co., 109 W 13th
 Voegtil, Theo. (M. E.), 614 Century bldg
 Waddell & Harrington (Consulting), New
 Nelson bldg
 Waddell & Hedrick (Consulting), New Nel-
 son bldg
 Weeks, Kendall & Co. (Consulting), New
 Nelson bldg
 Wheeler, W. A., 418 Lawton pl
 Whitney, B. B., Mass. bldg
 Willis, Bixby, N. Y. Life bldg
 Winkler, E. T., 628 Locust
 Wise, Henry A., 1204 Virginia
 Wynkoop, Kiersted (C. E.), Water Works
 bldg
 KIRKSVILLE—Hall, Stephen (City)
 KIRKWOOD—Baker, H. W.
 LAMAR—Goodwin, C. D.
 LEBANON—Willard, Timothy
 LEXINGTON—Mulligan, John
 MARSHFIELD—Smith, Alexander
 MEXICO—Rodgers, C. D.
 MOBERLY—Estell, H. V. (City)
 MOUND CITY—Morris, W. M.
 NEVADA—Wood, W. H.
 NEW MADRID—Hunter, L. H.
 OREGON—Young, C. E. (City)
 OSCEOLA—Bowles, R. O.
 PALMYRA—Scheetz, H. C.
 PARIS—Grigshy, J. N.
 PLATTSBURG—Everly, A. J.
 POPLAR BLUFF—Bacon, Ernest (City)
 Puckett & Raudabaugh
 PRINCETON—Sheets, W. P.
 ST. LOUIS—Abadie, E. H. & Co. (Consulting
 M. E.), National Bank of Commerce bldg
 Allison, Jas. E. (M. E.), 219 N 4th
 American Engineering Specialty Co. (M. E.),
 Carleton bldg
 Abbot, Gamble, 620 Chestnut
 Allan, David, 4345 Arco av
 Armbruster, Wm. J. (Mining), 105 N 7th
 *Ball, P. De C., 912 N Main
 Bary & Schreiber (Consulting M. E.), 407
 N B'way
 Bendit, Louis (M. E.), 1317 Temple pl
 Bleek, Oscar W. & Son, 816 1-2 Chestnut
 Blumenkranz, Moses (C. E. & Mining), 407
 N B'way
 Borden, Albert (M. E.), Lincoln Trust bldg
 Bowen, A. L., 107 N B'way
 Boyce, W. D. Engineering Co. (Consulting
 M. E.), Electric Railways & Power &
 Lighting Plants, Chemical bldg
 Boyle, John, Jr. (Mining), 719 Chestnut
 Brams, S. A. & Co. (M. E.), 1428 Market
 Branch, Jos. G. (M. E.), Holland bldg
 Brenneke & Fay, 122 N 7th
 Brown, Baxter L., 219 N 4th
 Brussel, Hughes, 715 Locust
 *Bryan, W. H. (Consulting M. E.), Lincoln
 Trust bldg
 Burchard, Samuel W., 509 Chestnut
 Burnet, Geo., 6623 Mich av
 Cameron, D. F. (Mining), Laclede bldg
 Chauvenet, R. & Bro. (Mining), 620 Chest-
 nut
 Carrick, Robert, 721 Olive
 Carroll Engineering Co. (M. E.), 308 N 6th
 Caudle, Geo. W. (M. E.), 100½ N 4th
 Colby, B. H. (Consulting), 319 N 4th
 Collins, Jerome H., 319 N 4th
 Crecelins, Louis J. (M. E.), 3138 S Grand av
 Dodds, J. T. (& Surveyor), 813½ Chestnut
 Fassett, F. K. (M. E.), 721 Olive
 Fay, Wm. (Consulting M. E.), Chemical
 Finley, Edwin C., 721 Olive
 Fischer, Chas. E. (M. E.), 2112 Cherokee
 Flad, Edward (Consulting C. E. & M. E.),
 Fullerton bldg
 Flatau, Louis S. (M. E.), 706 Chestnut
 Ford, Owen (& M. E.), 319 N 4th
 Furrell, Edw. W. (Consulting M. E.), 721
 Olive

Garrells, W. L. (M. E.), 1707 S 3d
 Garrett, John T., 715 Locust
 Gates, James, 705 Olive
 Gayler, Carl (Consulting), Wainwright
 Gebhart & Dean (M. E.), 105 N 7th
 Geisel Construction Co., Koken bldg
 Graham & Stewart (M. E.), 105 N 7th
 Green, John (M. E.), 721 Olive
 Guest, W. Wollastan, 220 N 4th
 Gurley Eng. Co. (M. E.), Burlington bldg
 Haas, C. A. (M. E.), 1623 S Jefferson av
 Harman, Eugene L., 122 N 7th
 Hatch, F. T.
 Haydock, Chas. L., 5975 Cote Brillante av
 Hermann, Edw. A., 319 N 4th
 Hinckley, J. F., Fullerton bldg
 Holman & Laird (Consulting), 721 Olive
 Hopkins, W. F., 220 N 4th
 Hopkins, Wm. W. (M. E.), 211 N 7th
 Humphrey, Henry H. (Consulting C. E. & M. E.), Chemical bldg
 Johnson, A. L., Century bldg
 Johnson, B. E., 210 Union Station
 Johnson, Jos. Y., Hodiament av & Horton pl
 Johnson, R. D. O. (Mining), 520 Olive
 Joyce Surveying Co. (& Surveyor), 620
 Kimball, Clinton, 1707 S 3d Chestnut
 Kinealy, John H. (M. E.), 406 Market
 Kirby, Edmund B. (Consulting), Security
 Lawrence, George H., 509 Chestnut bldg
 Ledlie, Chas. H., 220 N 4th
 Leinert, Chas. H. (M. E.), 406 Market
 Lichter & Jens (Consulting C. E. & M. E.), 721 Olive
 Light, Geo. E. (M. E.), Commercial bldg
 Lucas & Co. (M. E. & Patents), 620 Chestnut
 McCarthy, J. L. D. Architectural & Engineering Co., 816 Olive
 McCulloch & Co. (M. E.), Security bldg
 McGahan, Fred'k L. (Consulting M. E.), Missouri Trust bldg
 McKeen, Benj. (Vandalia Ry.)
 McKinley, Howard T. (M. E.), 319 N 4th
 McMath, R. E. Surveying Co. (Surveyors), 706 Chestnut
 Mahler, L. F. Co. (M. E.), 721 Olive
 Markmann-Tyrell Eng. Co., 620 Chestnut
 Missouri Automobile Works (M. E.), 1621 S
 Moore, P. N., 219 N 4th Jefferson av
 Moore, Robt. (Mining), 219 N 4th
 Morey Eng. & Const. Co., 405 N 6th
 Morrison, Wm. W. (Mining), 417 Pine
 Ogden, Ferris (M. E.), 3203 N B'way
 Osborn, Jos. A. (Consulting M. E.), Chemical bldg
 Osterhorn, Robt. Architectural & Engineering Co. (Consulting M. E.), 1014 N 6th
 Percival & Jones (Consulting M. E.), Burlington bldg
 Phillips, Richard H. (Consulting), Security bldg
 Pitzman's Co. of Surveyors & Engineers (& Surveyors), 615 Chestnut
 *Potter, Wm. B. (Mining), 1225 Spruce
 Pottle, Edw. H., 706 Chestnut
 Pritchett, Otis A., 721 Olive
 Quigley, John B., 220 N 4th
 Ramsey, Wm. (M. E.), 308 Vine
 Raupp, Carl, Oriel bldg
 Reber, Maxime, 421 Olive
 Ruebel-Schwedtmann-Wells (Consulting M. E.), Chemical bldg
 Russell, S. B. (Consulting Water Works, Power Plants, etc.), 417 Pine
 *Siebert, Alfred (Consulting C. E. & M. E.), 4950 Columbia av
 Spencer, E. J. (Consulting), 219 N 4th
 Stephens, Clinton F., 319 N 4th
 Tanssig, Hnbort P., 321 N 14th
 Thrman, Jno. S. (Consulting M. E.), 3933 Olive
 Tyrrell, W. A. (Consulting), 620 Chestnut
 Van Sant, R. L., 421 Olive
 Vitebro, Lionel R., 715 Locust
 Von Bocke, Chas. A., 706 Chestnut
 Watts Engineering Co., 509 Chestnut
 Webster, Frederick L. (M. E.), 721 Olive
 Wells, Semer G. (Mech'l Expert & Patent Attorney), 1117 Etzel ter.
 Wheeler, H. A. (Mining), 510 Pine
 Wilbanks, John R. (Consulting), Chemical bldg
 Winn, Walter E. (Consulting), 510 Pine
 Young, Fardwell & Hooke (Consulting C. E. & M. E.), 715 Locust
 Zeller, Albert H., 122 N 7th
 SAVANNAH—Hine, W. G.
 SEDALIA—Johnson, J. C.
 White & James (M. E.)
 Yeater, Merritt
 Zell, C. H. (City)
 SPRINGFIELD—Culler, G. W. (& Surveyor), Baker blk
 Stone, R. C. (M. E. Flour, Corn & Feed Mills)

Eddy, R. S. (Consulting C. E. & M. E.), 123 1/2 Public sq
 Hollenback, M. M., 714 S Jefferson
 Phillips, C. E., 535 State
 Reed & Heckenlively, Theatre bldg
 TROY—Seaman, W. J.
 WARRENSBURG—Zoll, C. H.
 WEST PLAINS—Summers, W. P.

MONTANA.

ANACONDA—Lord, H. S.
 Tobin, Pat'k
 BILLINGS—Smith, S. K.
 BOULDER—Cralle, R. M.
 BOZEMAN—Frost, Frank (Mining)
 Robertson, J. M.
 Thorpe, C. M.
 BUTTE—Baker, T. T., 60 Silver Bow blk
 Baker & Wilson (Mining)
 Bard, Darsey C. (Mining)
 Bergstrom, O. (Mining)
 Clark, H. S. (Mining)
 Davis, J. E.
 Frank, Albert
 Glass, Jas. (Mining)
 Harper & McDonald (Mining)
 Heywood, William A. (Metallurgist)
 Higgins, Edwin (Mining)
 Kent, Edmund (M. E.), P O Box 1087
 Knight, A. B. (Mining)
 Leggatt, Alexander (Mining)
 Leggat, J. B. (Mining)
 Mason, Carlisle (M. E.), 110 N Wyoming
 Mitchell, F. S. (Mining)
 Munroe, A. F.
 Pennington & Barker (Mining), 36 E Granite
 Rueger, J. A. (M. E.), 1204 N Main, Walkerville
 Stephens, A. H. (Electrical & M. E.), 816 W. Mercury
 Wilson, E. H. (Mining), Hennessy bldg
 Winchell, H. V. (Mining)
 DEER LODGE—Davis, H.
 DILLON—Metlen, G. H.
 FORT BENTON—Merrifield, A. W.
 GLENDIVE—Adams & Pennell
 GREAT FALLS—Bird, G. W.
 Lowery Engineering Co. (V. M. E.)
 Whitten, B. D. (M. E.), Phelps blk
 *Woodbury, L. S. (Pres., Great Falls Iron Works)
 GOULD—Schlertz, F. A. (Mining)
 HAMILTON—Kippen, M. D.
 HELENA—Atwater Richard M., Jr. (Mining)
 Brown, G. L. (Mining)
 Brown, Wilton G. (Consulting)
 Dickerson, Winchester (Mining)
 Farmer, J., Court House
 Helmick, C. W. (City & Mining), 29 Pittsburg blk
 Hovey, A. S. (Mining) 26 Merchants' blk
 Ropes, L. S. (Consulting Mining)
 Sanders, Wilbur E. (Mining)
 Sizer, F. L. (Consulting Mining)
 Wickes, G. T. (Mining)
 Word, William F. (Mining)
 KALISPELL—Gibson, J. B.
 Jaqueth, A. L.
 LEWISTOWN—Hogeland, F. A.
 Stafford, G. M.
 LIVINGSTON—Crookes, S. H.
 MILES CITY—Flynn, W. P.
 Scheetz, Geo.
 MISSOULA—Brandshaw, Jeremiah
 Dorman, E. S. (Mining)
 Finkelnburg, O. C.
 Hughes, Elmer
 Orr, Newton
 Westcott, Arthur L. (M. E.)
 PHILIPSBURG—Cralle, Edwd A.
 Donyes, C. F.
 Wilson, G. W.

NEBRASKA.

BEATRICE—Parrish, A. S. (M. E.), P. O. Box 33
 FAIRFIELD—Prickett, C. M.
 FREMONT—Andrews, J. W.
 GRAND ISLAND—Baldwin, C. A. (City)
 HASTINGS—Heartwell, C. A. Co. (Surveyor)
 KEARNEY—Allen, A. G. (M. E.)
 Gillet, A. F. (M. E.)
 Wilson, Jas.
 LINCOLN—Bates, G. W., 3090 R
 Bng. B. R., 1543 S. 22d
 *Brooks, Morgan (Prof. Elec'l Engr'g, Univ. of Michigan)
 Chessington, J. B., 1227 D
 Dobson, Adna (State Engineer), 945 D
 Hurtz, Theo. E., 1127 O
 Nicholson, Hudson H. (Consulting)
 *Richards, Chas. R. (Prof. Mech'l Engr'g, Univ. of Nebraska)
 Sargent, C. H., 629 N 16th
 Walton, James P., 1630 Washington
 NEBRASKA CITY—Munn, A. M., 112 N. 6th

NORFOLK—Lowe, W. H.
 OMAHA—Blickensderfer, Lewis (Consulting), Bee bldg
 Gardiner, L. H. (Consulting), 1st Nat'l Bank Bldg
 House, J. E. (& Surveyor), 1st Nat'l Bank Bldg
 Koenig, A. C., Bee bldg
 McEathron, W. J. (& Surveyor), Paxton blk
 Rosewater, Andrew (Sewerage)
 Shaw, Thomas (& Surveyor), Paxton Blk
 PLATTSMOUTH—Hilton, E. E.
 YORK—Coddling, A. B.

NEVADA.

GOLDFIELD—Baxter, H. (Mining)
 Todd, Robert B. (Mining)
 RENO—Arnett, W. D. C. Co. (Mining)
 TONOPAH—Jackson, D. H. (Mining)
 McClelland, J. F. (Mining)

NEW HAMPSHIRE.

ALTON—*Clough, Wm. R., Rockell, Clough Co.
 BERLIN—Bryant, E. S. (City)
 CHARLESTON—*Webber, Sam'l (Hydr. & Dyn. Engr.)
 CONCORD—Howe, W. B. (City)
 DOVER—*Estes, William M., Box 222
 Grover, William A. (City)
 Hayes, Charles W.
 Jaynes, S. Foster
 Jenkins, S. S.
 KEENE—*Humphrey, Jno. (Treas. & Gen'l Mgr., Hnmphrey Mach. Co.)
 Wadsworth, Samuel
 LACONIA—Berry, Forrest G. (City)
 Perley, Lewis S.
 Sleeper, Chas. H.
 LANCASTER—Sleeper, S. W. (M. E.)
 Williams & Davis
 LEBANON—Downs, Charles A.
 LITTLETON—Gile, Ray T.
 MANCHESTER—Allen, George H., 924 Elm
 Dow, Perry H., Amoskeag Mfg. Co.
 Dudley Arthur, 936 Elm
 Gay, Frank A., 852 Elm
 Lord, Samuel J. (City), 896 Elm
 *Manning, Chas. H. (Gen'l Supt., Amoskeag Mfg. Co.)
 Stevens, A. G. (M. E.), Manchester Mills
 Walker, Chas. K., Court House Bldg.
 Young, John P., 1028 Hanover
 NASHUA—Dean, A. W., 135 Main
 Hathaway, E. O., 135 Main
 Johnson, E. J., City Hall
 PETERBORO—Jones, E. W.
 Smith, E. M.
 ROCHESTER—Ames, W. M.
 TONOPAH—Kerr, Mark B. (Consulting)
 WHITEFIELD—Carleton, Sprague

NEW JERSEY.

ARLINGTON—Horstman, F. W. & Co., 410 John (E. N. B.)
 Keith, N. S. (Mining), 517 Kearney av
 Logan, W. S., 115 Midland av.
 ATLANTIC CITY—Hackney, John (City)
 Hillman & Ashmead, 42 Real Estate & Law Bldg.
 BAYONNE—Broome, Jos. (M. E.), 38 W 35th
 *Serrell, Wm. C., 624 Av. B.
 Smith, Emmett (City) av E & 30th.
 BELLEVILLE—*Williams, Franklin (Asst. Gen'l Mgr., Eastwood Wire Mfg. Co.)
 BEVERLY—Stokes, Charles
 BLOOMFIELD—Olmsted, A. H., 24 Broad
 *Power, Wm. M. (Power Mfg. Co.)
 BOONTON—Godefroy, R.
 Van Dngen, Lewis.
 BORDENTOWN—Hutchinson, John H.
 BOUND BROOK—*Ball, Frank H. (Vice Pres. & Gen'l Mgr., Amer. Eng. Co.)
 Herbert, Harry
 BRIDGETON—Sharp, Walter M. (City)
 *Smith, Oberlin (Pres., Ferracnte Mach. Co.)
 BURLINGTON—Milnor, Thos. W. (M. E.)
 Probasco, Seldon R.
 BUTLER—Roome, William
 CAMDEN—Bodine & King (& Surveyors), 305 Market
 Farnham, Levi E. (City), City Hall
 Graves, Erwin (M. E.), Supt., Camden Iron Works
 Haines, Henry S., Temple bldg
 Hoyt, Wm. L. (M. E.), 415 Chambers av
 Kanfman, F. F. (M. E.), 909 Pine
 May, Edmund (Surveyor), 103 Market
 Schramm, Henry G. (M. E.), 107 Linden
 Sherman, Henry J., Temple bldg
 Sleeper, Benj. A., Temple bldg
 Thomson, Earl (& Surveyor), 301 Market
 CRANFORD—Vreeland, C.
 DOVER—Jenkins, Geo. E.
 Riggs, Albert R.

EAST ORANGE—Doty, A. L., 27 Wash'n
 *Lape, Wm. E., 7 Girard av
 Olcott, Geo. B., 252 Main
 Orange Machine & Mfg. Co. (M. E.)
 ELIZABETH—*Bailey, T. S., 326 Union av
 Bauer, J. L., 215 Broad
 Luster, Wm. H., Jr. (City), City Hall
 Meyer, Oswald L. P. (& Surveyor), 208 Broad
 *Miller, Lebeus B. (Supt., Singer Mfg. Co.)
 Quien, Louis, 251 Elizabeth av
 Tucker, W. B. (M. E.), 46 W Scott pl
 ENGLEWOOD—Bistwhistle, H.
 Cass, Willard
 Serviss & Van Blarcon
 Van Blarcon, Wm. V.
 FLEMINGTON—Blaise, Jno., Lock Box 332
 HACKENSACK—Lozier, Lemuel
 Pettigrew & Campbell
 Van Buskirk, P. E.
 Williams Bros.
 HACKETTSTOWN—Dellicker, A. H.
 HARRISON—Logan, William S., 160 Midland av
 HOBOKEN—*Bristol, W. H. (Ass't Prof. of Math., Stevens Inst. Tech.)
 Brush, Chas. B. & Co., 1 Newark
 *Denton, Jas. E. (Prof. Expl. Mech., Stevens Inst. Tech.)
 *Forbes, W. D., 1300 Hudson
 *Jacobus, D. S. (Prof. Expl. Mechs., & Engineering Physics), Stevens' Inst. Tech.)
 McCann, Thos. H., Nat'l Bank bldg
 *Morton, Henry (Pres., Stevens' Inst. Tech.)
 *Pryor, Fred'k L. (Inst. in Expt. Mechanics, Stevens' Inst. Tech.)
 *Riesenberger, Adam (Pros. Mech'l Drawing, Stevens' Inst. Tech.)
 *Stevens, E. A. (Pres., Hoboken Ferry Co.), 1 Newark
 Tivy & Smith, 84 Washington
 Whittemore, W. F., 1 Newark
 JERSEY CITY—*Anderson, Jas. C., 77 Sherman pl
 Blau, Gustav, Jr., 45 Belmont av
 Boulton, J. B. D. (M. E.), A ft of Essex
 Brown & Miller (M. E.), ft of Morris
 Daly, Robt. H. (& Surveyor), 76 Montgomery
 *Dinkel, Geo., Jr. (Chief Engineer, American Sugar Refining Co.)
 Earle & Harrison (& Consulting & Surveyors), 15 Ex. pl
 Ferris, Garwood, 98 Hudson
 Flynn, W. S. (M. E.), 74 Hudson
 Guhl, Emil (& Surveyor), 19 Charles
 Harrison, E. W., Fuller bldg
 *Hayward, H. S. (Supt. M. P., United Railroads of N. J. Div., P. R. R.)
 Hopper, Chas., 15 Exchange pl
 Insley, Edward W. (& Surveyor), 344 Central av
 Krom, Stephen R. (M. E.), 113 Plymouth
 Leahy, Jas. W., 29 Exchange pl
 Payne, Jno. C. (& Surveyor), 1 Montgomery
 Ross, P. Sanford, 277 Wash'n
 Ross, Wm. L., 277 Wash'n
 *Tompkins, Samuel D. (Pres., Smoothon Mfg. Co.), 547 Communipaw av
 *Tremaine, E. G. (Supt. Mach'y, P. Lorillard & Co.), 111 1st
 Van Keuren, Chas. A. (Chief Engineer), City Hall
 White, George (M. E.), 22 Morris
 Wortendyke, Nicholas D. (City Surveyor), 108 Bentley av
 KEYPORT—Sproul, C. F. & H. S., E. Front & Broad
 LAKEWOOD—Delatash, J. C. (M. E.), Ocean av
 Fielder, Benj. H., Jr., Main
 MADISON—Brown, Edmund K.
 MONTCLAIR—Crane, Frank W., 467 Bloomfield
 Owen, James, 467 Bloomfield av
 MOORESTOWN—Bortou, Uriah
 MORRISTOWN—Brinley, Jno. R.
 Howell, Edward
 Melick, John E.
 Pierson, Arthur (City)
 Pitney, Frederic V.
 Smith, Fred'k S., Babbitt bldg
 MOUNT HOLLY—Lippincott, Joseph
 NEW BRUNSWICK—Atkinson, Asher (City), 389
 Chandler & Duane, 433 Grove
 Serviss, David, County Collector's office
 Tice & Rightmire, 92 Albany
 NEWARK—Adam, Ernest (City Surveyor), City
 Baechlin, Ernest, 45 Clinton Hall
 Borrie, C. Melville (& Surveyor), 757 Broad
 *Braine, L. F., 142 Market
 Burroughs, Chas. (M. E.), 141 Commerce
 *Campbell, Geo. W. (& M. E.), 171 Broad
 Curries, Cyrus & Sons (M. E.), 365 Market
 Faber du Faur, A., 22 Nichols
 *Farrand, Dudley (Mgr.), 763 Broad
 Field, W. P. (Consulting), 763 Broad
 *Foster, John M. (Pres.), 109 Monroe
 Fraentzel, P. C. (M. E. & Patent Attorney), 802 Broad
 Francisco, Jno. H. (& Surveyor), 751 Broad

Gardner, Geo. H. (& Surveyor), 784 Broad
 Halsey, Edmund R. (& Surveyor), 164 Market
 Hedden, Iron Construction Co., 22 Clinton
 Hewes & Phillips Iron Works (Consulting M. E.), Orange c Ogden
 Hickok, H. Addison (& M. E.), 762 Broad
 Hooper & Co., 238 Washington
 *Jacobi, Albert W., 286 S 6th
 Kempf, Edw'd G., 164 Market
 Lehlbach Bros. (& Surveyors), 196 Market
 Lockwood, Chas. S. (M. E.), 289 Market
 Lyle, Wm. T., 792 Broad
 McMurray, Eugene A. (& Surveyor), 22 Clinton
 Mueller, Carl (& Surveyor), 810 Broad ton
 O'Neill, Jno. J., 45 Clinton
 Owen, James (Consulting), 196 Market
 Parsons, W. E. (M. E.), 45 Clinton
 Public Service Corporation (M. E.), Prudential bldg
 Rankin, Edward S. (City), City Hall
 Ruesch, Henry J. (M. E.), 22 Green
 Runyon & Carey (M. E.), 122 Market
 Seymour & Whitlock (Consulting), 43 Lawrence
 Slalyer, Wm. D., 22 Clinton
 Taylor-Martin Engineering Co. (M. E.), 365 Market
 Taylor, Percy B. (Consulting M. E.), 122 Market
 Teiner, Richard (M. E.), 450 High
 Van Dwyne, Harrison & Son (& Surveyors), 800 Broad
 *Weston, Edw., 114 William
 Witzel, Peter (& Surveyor), 839 Broad
 Yarnall, D. Robert (M. E.), 164 Market
 NEW LISBON—*White, Jos. J.
 NEWTON—Kunkle, Andrew H. (M. E.)
 ORANGE—Bulkeley, Henry W. (M. E.), 128
 Crane, Fred T., 252 Main Harrison
 *Edison, Thos. A.
 *Herter, Emil (Chief Draughtsman, Edison Mead & Taylor, 242 Main Laboratory)
 Olcott, Geo. P., 252 Main
 Reimer, W. H. V., 249 Main
 PASSAIC—Kriedge, E. L. (Mill Eng.)
 Peterson, Anton (City)
 Strange & Doolittle (Consulting)
 Wise & Watson (Consulting)
 PATERSON—Bogert-Carlough Co. (Consulting), Peach c Straight
 *Brock, Wm. M. (Supt., Pnblc Service Corporation)
 Christie, Wm. W. (Consulting M. E.), Paterson Saving Institution bldg
 *Ferguson, John W. Co., United Bank bldg
 Ferguson, Wm. & Son, United Bank bldg
 Fonda, C. V. W. (Surveyor), 111 Hamilton av
 Harder, Harold J. (City Engineer), City Hall
 Henry, David Building Co., Smith c Main
 Van Winkle, Franklin, Colt bldg
 Whitmore, W. L., Court House
 PERTH AMBOY—Hommann, Chas. C. (& Surveyor)
 Mason, S. J.
 Smith, Forrest L.
 PHILIPSBURG—Rowell, Robt.
 Smith, Jas. E.
 PLAINFIELD—Dunham, F. A. (Consulting), 109 Park av
 Gavett, Andrew J. (City), 152 Park av
 Hubbard, F. J. (Consulting), Babcock bldg
 Meeker, Robt. A. (Consulting), 209 Park av
 Vail, Ephraim M., 109 Park av
 Van Emburgh, H. C. (Consulting), 152 Park av
 PRINCETON—*Wilson, Woodrow (Pres., Princeton Univ.)
 RED BANK—Cooper, George
 Osborn, Frank
 Throckmorton, J. W.
 RIDGEWOOD—Harder, H. J.
 RIVERTON—Parry, Howard
 Thatcher, Walter A.
 ROSELLE—*Greer, R. C.
 RUTHERFORD—*Sloat, Geo. V.
 SOMERVILLE—Doughty, Joshua
 Lane, J. R. S.
 SOUTH ORANGE—Taylor, Lewis P.
 SUMMIT—Mead & Taylor
 TOWN OF UNION (P. O. Address, Weehawken)
 —Earl, R., Jr. (Consulting), 154 Bergenline av
 Gaw, Robt. (Consulting), 520 Van Vorst pl
 TRENTON—Albert, Reuben, 45 Bayard
 D'Unger, Ellwood (M. E.), Ribsam bldg
 Eppele, F. J. (County Engineer), 430 Perry
 Franz, Milton Co., 30 W State
 Haven, C. C., City Hall
 Haven, R. C. (Surveyor) 229 W State
 Ivens, Wm. H. Sons Co. (M. E.), Beakes av
 & Johnson Trolley Power House
 Nelson, Alfred B., 512 Perry
 Nevius, Jno. C. (Surveyor), 138 Mercer
 *Reeves, Clifton (Pres., Reeves Mach. Co.)
 *Spillsbury, Edmund G. (Consulting), 216 W State

Swan, A., Jr., Broad St. Bank bldg
 Watson, John & Sons Co. (M. E.), 11 Fair
 *Webber, Samuel S. (Mgr.), 204 W State
 Yard, G. B., 306 E State
 VAILSBURG—McMurray, Eugene A. (Boro.)
 WEEHAWKEN—Duer, Edw., Hauxhurst pk
 WESTFIELD—Marsh, Jno. M. C.
 WEST HOBOKEN—Gaw, Robt., 584 Spring
 Maulbeck, S., 495 West
 WEST NEW YORK (P. O. Address, Taurus)—
 Gaw, Robt., Bergenline av., opp. Town Hall
 WEST ORANGE—Baldwin, Merrick R., Valley rd c Lakeside av
 Faulks & Baldwin, Valley rd c Main
 WOODBURY—Carter, William M.
 Ladd, Samuel H.

NEW MEXICO.

EAST LAS VEGAS—Merry, D. B.
 LAS VEGAS—Holt & Hart
 Rice, R. B.
 SOCCORRO—Brown, Cony F. (Mining)

NEW YORK.

ALBANY—Allen, Leslie (& Surveyor), De Graaf
 Andrews, Horace, 125 Lancaster bldg
 *Blessing, Jas. H. (Sec'y, Albany Steam Trap Co.)
 Bond, Edw. A. (State Engineer), Capitol
 Devendorf, La Motte K., 68 State
 Melius, Walter, 59 Tweddle bldg
 O'Hara, Jno. J. (City), 3 N Pearl
 Parsons, Henry C., Tweddle bldg
 Parsons & Melins, Tweddle bldg
 *Preston, Geo. B. (Insp. Steam Vessels, D. P. W.)
 Pruyn, Augustus, 230 State
 Roberts, Herschel, 112 State
 Stowell & Cunningham, 51 State
 Wooley, W. Thos. (Consulting), 66 Eagle
 AMSTERDAM—Bennett, Chas. J., 90 Division
 Cleveland, H. B., 18 Storrie
 Crane, Francis E. (City)
 De Graff, H. W., 298 Guy Park av
 Moak, Saml., 251 Guy Park av
 Smeallie Bros. (M. E.)
 AUBURN—Austri, Dewitt F. (City), City Hall
 BALLSTON SPA—Geer, H. M.
 BATAVIA—Alexander, Chas. A. (M. E.)
 Cone, Hobart B.
 Holmes, J. W.
 BINGHAMTON—Ackerman, R. McK., 160 State
 Baird, S. M., McNamara blk
 *Harris, J. F., 21 Goethe
 Monroe, S. E. (City), Municipal bldg
 BROOKLYN—(See N. Y. City, Borough of Brooklyn)
 BUFFALO—Adsit, John O. (M. E.), 2 Chapin blk
 Alberger Co. (M. E.), 695 Ellicott sq
 Averill, F. E. (Consulting M. E.), 444 Niagara
 Bardol, F. V. E. & Co., D. S. Morgan bldg
 Barr, Wm. H. (M. E.) (Gen'l Mgr., Lumen Bearing Co.), 1155 Sycamore
 Bassett, Geo. B. (Consulting, Civil & Hydraulic), 290 Terrace
 Baxter, A. E. Eng. & Appraisal Co. (& M. E.), 945 Ellicott sq
 Bierbaum, Christopher H., Prudential bldg
 *Bierbaum, C. H. (Consulting), Prudential bldg
 Birdsall, E. M. (Consulting M. E.), 116 Hodge av
 Bowen, Ephraim N. (M. E.), 92 Baynes
 *Boyd, Hy. A., Erie County Bank bldg
 Budd, T. A. (M. E.), 428 Ellicott sq
 Buffalo Engineering Co. (M. E.), Erie Co. Bank bldg
 Bunge, Julius H. O. (M. E.), Fidelity bldg
 Busch & Percival (& M. E.), Mooney bldg
 Buttolph, H. T. (Asst. City), 109 Russell av
 Calhoun, W. A. (Consulting M. E.), Mutual Life bldg
 Candee, Bertram (Consulting M. E.), 10 Vernon pl
 Cloudsley, Jas. B. (Consulting M. E.), Bureau of Water Supply
 Conkling, C. C. & Co., 834 Ellicott sq
 Conlon, Arthur (Consulting M. E.), 11 N
 Davy, Marsden, 68 Niagara Ashland av
 Dieter, Louis F. (M. E.), 1868 Seneca
 *Dollar, Wm. M., Erie County Bank bldg
 Durolith Co. (Contracting), 16 Builders
 Ellsworth Bros., 50 W Eagle Ex. bldg
 Fairchild, Dennison, 937 Ellicott sq
 Fell, Chas. F., 139 De Witt
 Gail, Harry M. (M. E.), 63 Richmond av
 Goodwin, S. W. (M. E.), 45 Grote
 Guthrie & Diehl, 581 Ellicott sq
 *Guthrie, Edw. B. (Chf. Eng., Grade Crossing Commission), Ellicott sq
 Hanavan, Eugene C., 398 Louisiana
 Huguembourg, Chas. E., Fidelity bldg

Howard Iron Works (M. E.), 287 Chicago
Hunt, Robert W. & Co., 575 Ellicott sq
Jackson, Lucian C. (M. E.), 426 Ellicott sq
Joss & Gatchell (C. E.), Ellicott sq
Joss & Gatchell, Prudential bldg
Knapp, Louis H., 366 Ellicott sq
Krause, Albert & Son (& Surveyors), Buld
ers' Exchange

*Kuhn, Jos., 67 Mississippi
Learmouth, Robert (Consulting M. E.), 200
Lafayette av

Lyon, Henry L., Municipal bldg
McCreary & Wood, Marne Bank bldg
McDougall, Angus, 202 Main
Molyneux, B. S. (M. E.), 619 Main
National Engineering Co. (Contracting &
Designing M. E.), Prudential bldg
Osgood, J. L. (M. E.), Erie Co. Bank bldg
Perkins, Frank C. (Consulting M. E.), Erie
Co. Bank bldg

Pickett, Edward F. (M. E.), 347 Ellicott sq
Power Installation Co. (M. E.), 202 Main
Radley, Richard (M. E.), Ellicott sq
Ricker, Geo. A. (& M. E.), 702 Ellicott sq
Roberts, Geo. T., D. S. Morgan bldg
Rogers, Thos. J., 17 Whitney pl
Shoemaker, F. A. (M. E.), 21 Builders' Ex
Slegesmund, Ernest, 33 Main
Sikes, Geo. R., Ellicott sq
Smith, Chas. M., Chapin blk
Smith, Harry J. (M. E.), 43 Dodge
Tiffany & Williams, 428 Ellicott sq
Tresise, Francis J. & Co. (M. E.), D. S.
Morgan bldg

Ullmann, Jno. G., 935 Ellicott sq
Westcott, Geo. F. (Consulting), 202 Main
Wannenwetsch & Co. (M. E.), 563 William
White, Wm. J., 159 Dearborn
*Wilke, Wm. (M. E.), 86 Norwood av
Wing, Fred'k K., Fidelity bldg
Witmer, J. F., 2 Chapin blk
Woodruff, S. H. (Consulting), Mutual Life
Wright, Josiah P., Fidelity bldg
Wright & Williams, Fidelity bldg
Youngs, J. S. (& Surveyor), 831 7th

CAMBRIDGE—Watkins, Thos. L.

CARTHAGE—Brownell, Jas. P., Strickland bldg

CATSKILL—Warner, Geo. H.

CHAZY—Waters, Cyrus

COHOES—Van Auker, C. H. (City)

Van Auker, D. H.

CORNING—Hoyt, S. T. (City)

CORTLAND—Allen, Henry C. (City)

DUNKIRK—Hequembourg & Avery, 305 Central

Morrissey, J. P. (City), 191 R. R. av

Newton, Geo. M., 229 Central av

ELMIRA—Bovier, Asa P., 308 Spalding

Hall, W., 580 Maple av

Leach, Fred'k, 206 Robinson bldg

Rawlins, J. E. (City), City Hall

FLUSHING—(See New York City, Borough of

GENEVA—Church, C. T. Queens)

GLEN COVE—Brown, Wm. H.

GLENS FALLS—Philo, Hiram, 331 Glen

Slade, Geo. P. (City & Surveyor)

West, H. M.

GLOVERSVILLE—Comstock, F. L., Parkhurst

Flsk, Chas. (City) blk

GOSHEN—Jonas, M. & Son

Levison, B. W.

Mills, V. K.

Samuels, P. (Est.)

GREENWICH—Haskins, Jos.

GROTON—Landon, E. A.

HAVERSTRAW—Allison, Calvin T.

Willson, Lavalette

HEMPSTEAD—Titus, Edw. S., 96 Columbia

HERKIMER—Wood, D. C., 67 Main

HORNELLVILLE—Bates, Henry

ILION—Ringwood, Jas. D.

ISLIP—Smith, E. R.

Whitman, S. S.

ITHACA—Barr, Jno. H. (Prof. Mach. & De-

sign, Sibley College, Cornell University)

*Carpenter, Rolla C. (Prof. of Expt. Engi-

neering, Sibley College, Cornell Univ.)

Crandall, C. L., Prof., 100 Hector

Crandall, K. P., 90 Hector

*Durand, Wm. F. (Prof. Marine Engineer-

ing, Cornell University)

*Hibbard, H. Wade (Prin. of Graduate

School of Ry. Mech'l Engineering, Sibley

College, Cornell University)

*Reld, Jno. S. (Instr. in Mech'l Drawing &

Design), Sibley College, Cornell Univ.)

*Rites, Francis M., 64 W Buffalo

*Ryan, Harris J. (Prof. Elec'l Engineering,

Sibley College, Cornell University)

JAMAICA—(See New York City, Borough of

JAMESTOWN—Bently, C. Eugene Queens)

Burns, Dalrymple, Francis W. (City)

Fenton, Louis

Gardner, Omar N., 408 W 5th

Jones, Geo. W., Gokey blk

JOHNSTOWN—Miller, Jas. W. (City)

Miller, Wm. R., 26 Hoosick

KEESEVILLE—Harkness, J. Warren

KINGSTON—Bell, Geo. N. (City), City Hall

Codwise, Edward B., 43 John

Ellison, Geo., 20 Van Buren

Hallinan, John F., 112 Downs

Klingberg, Wilgott, 290 Fair

LANSEBURG—(See Troy)

LAUREL HILL—(See New York City, Borough

LIBERTY—Cantine, N. S. of Queens)

LINOLEUMVILLE—(See New York City, Bor-

ough of Richmond)

LITTLE FALLS—Babcock, Stephen

Lansing, E. T. E. (City)

LOCKPORT—Cook, Wm. B., 160 Locust

Cornes, Chas. H., 15 Orchard

Dox, Isaac, 84 Ontario

Freese, Julius F. (City), Central blk

Freese & Olmsted, 3 Central blk

Gooding, Stephen F., 179 Church

LONG ISLAND CITY—(See New York City, Bor-

MALONE—Young, Gilbert ough of Queens)

MASSENA—Faherty, P. B.

MIDDLETOWN—Everson, C. J.

Smith, Chas. H. (City)

MOUNT VERNON—*Coleman, Geo. F., 118

Hufnagel, B., 140 E 1st Archer av

NEWBURGH—Garrison, Everett (City, & Sur-

veyor) City

NEW HARTFORD—Scripture, Arthur M.

NEW ROCHELLE—Crosby, Horace

De Luze & Emmet

Haskell, C. S.

Van Etten, L. E.

Wilkes, J. K. (City)

NEW YORK CITY.

Borough of Brooklyn.

BROOKLYN—Allen, Austin E., Municipal bldg

*Almond, T. R., 83 Washington

Ambrose Machine Co. (M. E.), Eagle &

Arcl, J. B., 99 B'way Provost

Asserson, Henry R., Municipal bldg

Atlantic Basin Iron Works (M. E.), Summit

& Imlay

Barker, Herbert J., Municipal bldg

Bartlett, F. L. (& Surveyor), 204 Montague

Bartlett, H. L. (& Surveyor), 189 Montague

Beck, Fritz (M. E.), 1415 59th

Berry, Geo., Municipal bldg

Bischof, Geo. J., 4 Court sq

Brush, Wm. W., Municipal bldg

Buckingham, Fredk. E., 44 Court

Byrne, A. T., 350 Fulton

Byrne, James J. (Surveyor), 26 Court

Caccavajo, Joseph Co., 479 Fulton

Cadmus, Geo. W., Municipal bldg

Carey, Jas. F. (& Surveyor), 190 Montague

Cassidy, John A., Municipal bldg

Clausner, Otto, Municipal bldg

Cleverdon, W. S., Municipal bldg

Columbia Engineering Works (M. E.),

Pioneer & Imlay

Debevoise, Wm. G. (& Surveyor), 1153

Myrtle av

Dennington, F. C. (Surveyor), 200 Montague

Devarona, Ignatius M., Municipal bldg

Diack, Geo. A., 215 Montague

Drake, Fred'k. Co., Municipal bldg

Faribault, P. A., Borough Hall

Drew, C. D., 240 Jefferson av

Folger, E. P., 377 Jefferson av

Forbes, Arthur C., 4 Court sq

Ford, Wm. G. (& Surveyor), 204 Montague

Fort, E. J., Municipal bldg

Fulton, John (M. E.), Municipal bldg

Goodman, Jos., Municipal bldg

Gray, John C., Municipal bldg

Griffin, Wm. J. (Surveyor), 26 Court

Griffiths, John D., Municipal bldg

Hammond, Geo. T., Municipal bldg

Hammond, Jno. F., Municipal bldg

Harrop, Wm., (Surveyor), 189 Montague

Head, Henry C., 4 Court sq

Hill, Wm. R. (C. E.), 242 6th av

Horwedel, George J., Municipal bldg

Jacobsen, Eldred E., Municipal bldg

Jordan, Jas. H., 265 Nevins

Kelly, Olaf, 84 B'way

Kinsman, Frank E., 55 Dey

Knap, Edgar D., 84 B'way

Kurth, A., 375 Fulton

Laase, Wm. F., Municipal bldg

Langthorn, Jacob S., 407 Hamilton av

Leffingwell, F. D., 350 Fulton

Litchfield, Percy, 350 Fulton

Lobo, Carlos, Municipal bldg

Locke, John C., Municipal bldg

*Logan, F. J., 285 De Kalb av

Ludlam, Austin (Surveyor), 26 Court

McColl, Ernest M., Municipal bldg

McElroy, Samuel A. (& Surveyor), 26 Court

McNeil, D. (M. E.), Pioneer & Imlay

Magrath, Jas. W., 465 Marion

Maloney, Jas. E. (& Surveyor), 1091 Atlan-

Martin, Kingsley, 84 B'way tic av

Martin, Louis E. (M. E.) Municipal bldg

Meserole, B. R. & J. V. (Surveyors), 1

B'way

Meserole, Walter M. (& Surveyor), 44 Court

Meserole & Middleton (& Surveyors), 2511

Atlantic av

Messenger, Wm. H., Municipal bldg

Mosman, Alonzo T., 186 Remsen

Murphy, Alex. D. (& Surveyor), 180 Mon-

Murphy, Francis P., 66 Court tague

Nostrand, Peter E. (& Surveyor), 190 Mon-

tague

Palmer, Noyes F. (Surveyor), 150 Snediker

Pollock, C. D., Municipal bldg av

Reeve, Henry E. (M. E.), 459 Carroll

Riley Machine Works (M. E.), 192 4th

Schermerhorn, Richard, Jr., 183 Prospect pl

Schmidt, Herman H., Municipal bldg

Schmitt, Jacob, Municipal bldg

*Schnuck, Edw. F. (Gen'l Supt., Arbuckle

Bros.), Jay & John

Skilton, George S., Municipal bldg

Southard, C. C., 164 Montague

Strachan, Jos., Municipal bldg

Sullivan, Chas. P., Municipal bldg

Swezey, Edwin C. (Surveyor), 259 52d

Thomass, Fred'k (& Surveyor), 375 Fulton

Tilley, J. Alfred, 84 B'way

Tillson, Geo. W., Municipal bldg

Tuttle, Arthur S., 189 Montague

Van Buren, Robt., Municipal bldg

Van Buskirk, Clarence E., Municipal bldg

Wagner, Bernard M., Municipal bldg

Ward, Chas. D., Municipal bldg

Ward & Upright Engineering Co. (M. E.),

43 York

Watson, John (M. E.), 46 Prospect

Weiss, Louis T. (M. E.), 290 Taaffe pl

Wenige, Arthur E., Municipal bldg

Whelan, Jas. A. (M. E.), 576 7th

White, E. Sherman (& Surveyor), Municipal

White, Lewis B. (M. E.), 44 Court bldg

Whitley, F. N. (& M. E.), 215 Fulton

Williams, R. L. (& Surveyor), 189 Montague

Winslow, Geo. E., Municipal bldg

Wynkoop, Hubert S. (M. E. & Electrical),

Municipal bldg

Boroughs of Manhattan & Bronx

NEW YORK—Abbott, E. L. (Consulting), 71

Abbot-Gamble Co., 32 B'way B'way

Abeel, David G., 29 B'way

Adams, Wm. H. (Mining), 18 B'way

Alms, Walton L., 45 B'way

Alexander, Harry (Consulting M. E.), 20 W

Allbee, E. E. (M. E.), 160 B'way 34th

Allen, W. W. (Consulting & Mining), 24

Broad

Alsing, J. R. Co. (M. E.), 136 Liberty

Am. Bureau of Inspections & Tests (Con-

sulting), 29 B'way

Am. General Engineering Co. (Contracting

C. E. & M. E.), 132 Liberty

Am. Institute of Mining Engineers (Min-

ing), 99 John

Am. Society of Civil Engineers, 220 W 57th

American Society of Mechanical Engineers,

12 W 31st

Anderson, Robert M. (Mining), 92 William

Archer, Geo. F. (Contracting &

Bartlett, Hayward & Co. (M.E.), 100 B'way
 Barton & Carpenter (Consulting), 32 B'way
 Barwick, Thos. Engineering Co. (Consulting, M. E.), 15 Park row
 Bates, Chas. J. (Consulting), 126 Liberty
 Bates, L. W. (M. E.), 111 B'way
 Bates, Putnam A. (Consulting Elec.), 42 B'way
 Bates & Neilson (Consulting), 42 B'way
 Baur, Wilhelm (Consulting), 42 B'way
 Beach, Robert J. Engineering Co., 32 B'way
 Beatty, Chester A. (Mining), 71 B'way
 Bell Engineering & Construction Co. (Consulting), 220 B'way
 Bellman & Sanford (Consulting Engineers & Contractors), 149 B'way
 Benedict, Wm. deL. (Consulting, Mining & M. E.), 43 Cedar
 Benjamin, Chas. W. (M. E.), 206 B'way
 Bensel, John A. (Chief Eng. Dock Dept.), Pier A, N. E.
 Berger, Bernt (Consulting), 45 B'way
 Billow, Aaron (M. E.), 172 Forsyth
 Birdsall, George W. (Consulting), 21 Park row
 Birkmire, Wm. H. (Consulting), 396 B'way
 Blackwell, F. O. (Consulting), 49 Wall
 Blackwell, Josiah L. (Contracting), 49 Wall
 Blow, A. A. (Mining), 35 Wall
 Boardman, Arthur E. (Consulting Civil & Hydraulic), 43 Exchange pl
 Bodge, Wm. (M. E.), 123 Liberty
 *Bogart, John (Consulting C. E. & M. E.), 16 Exchange pl
 Bogue, Virgil G., 15 William
 Boland, Francis H. (M. E.), 180 B'way
 Boller & Hodge (Consulting, C. E. & M. E.), 1 Nassau
 *Bolton, Reg. P. (Consulting C. E. & M. E.), 527 5th av
 Boulger, Benj. (M. E.), 39 Cortlandt
 *Bourne, Frank, 26 Cortlandt
 Bowers, Charles C. (Consulting), 1 B'way
 Bowman, Austin L. (Consulting), 29 B'way
 Bowman, Walker (Consulting), 39 Cortlandt
 Bradford, Horace S. (Mining), 35 B'way
 Bramwell, Geo. W. (Consulting), 335 B'way
 Brandner, Paul, 49 Liberty
 Breese, Chas. P. (Consulting), 25 Broad
 Briggs, Josiah A., 3d av. & 177th
 Brinckerhoff, H. Waller (Consulting C. E. & M. E.), 45 B'way
 Broderick & Wind (Contracting), 1 Madison av
 Bronder, G. A. (Contracting), 229 B'way
 Brooks, Jas. E. Co. (Consulting), 45 B'way
 Broome, Jos. (Consulting C. E. & M. E.), 123 Liberty
 Brown, Chas. O. (Consulting), 1 Madison av
 Brown, Herbert S. (Consulting), 319 E 23d
 Brownlee, James L. (Consulting), 29 B'way
 Brubaker, Samuel H. & Co. (Consulting), 45 B'way
 Brumbaugh, L. Howard (Contracting), 220 B'way
 Buchholz, Carl W. (Consulting), 11 B'way
 Buckenham & Miller, 346 B'way
 Building & Sanitary Inspection Co. (Consulting), 76 William
 *Bulkley, Henry W. (M. E.), 141 B'way
 Bull, Charles H., 15 Park Row
 Burchard, Anson W. (Consulting & Mining), 44 Broad
 Burdett, F. A. (Consulting), 29 W. 34th
 Burger, C. C. (Consulting Mining), 71 B'way
 Burger, Clarence L., 8 Bridge
 Burhorn, Edwin (Consulting & Contracting M. E., Electric Transmission & Steam Generation), 71 Wall
 Burke, John W. (Consulting), 45 B'way
 Burr, G. A. (M. E.), 1 B'way
 Bush, E. Renshaw (Mining), 69 Wall
 Bushnell, D. S. (M. E.), 26 B'way
 Caccavajo & Prunyn (Consulting), 55 W. 33d
 Caggiano, John, Canal av. & 135th
 Cahoon, Jas. B. (Consulting & M. E.), 42 B'way
 Caldwell, H. W. & Son Co. (M. E.), 95 Liberty
 Calhoun, Walter A. (Consulting), 74 B'way
 Callaway, Edward H. (Consulting), 39 Cortlandt
 Campbell & Co. (M. E.), 300 E 64th
 Cardow, Charles (M. E.), 108 Charlton
 Carichoff, Eugene R. (Consulting), 20 Broad
 Carlile, Wm. E. (& M. E.), 140 William
 Carpenter, Ira H. (Consulting), 52 William
 Carter, R. B. Co. (Contracting), 26 Cortlandt
 *Cary, Albert A. (Consulting), 95 Liberty
 Cary, Harry E. (Mining), 5 Nassau
 Catlin, Henry G. (Consulting), 43 Exchange pl
 Cattell, Wm. A. (Consulting C. E. & M. E.), 21 Park row
 Chambers & Hone (Consulting), 60 New

Channing, J. Parke (Mining & M. E.), 32 Park pl.
 Charlton, Vanderhorst & Legare (Consulting), 45 B'way
 Church, John A. (Mining), 15 William
 City Wastes Disposal Co. (Consulting), 156 5th av.
 Clark, George H., 120 Liberty
 Clark & Co. (Contracting), 100 B'way
 Clark, Watson G. (Consulting), 1123 B'way
 Clements, J. M. (Mining), 15 William
 Cody, Joseph W. (M. E.), 537 W 111th
 Coffin, T. A. (Consulting), 45 B'way
 Cogswell, C. V. (Mining), 15 Broad
 Colby, Albert Ladd (Consulting & Inspecting, Iron & Steel Metallurgist), 217 W. 110th
 Cole, John A. & Edward S. (Consulting & M. E.), 220 B'way
 Cole, H. J., 29 B'way
 Coleman, Jilson J. (Consulting), 45 B'way
 Collins, A. Fred. (M. E.), 11 B'way
 Collins, D. C. N. (Consulting), 29 B'way
 Collins, H. E. (Consulting & Contracting, Produce Ex.), 551 E 116th
 Colonial Engineering Co. (M. E.), 551 E 116th
 Comstock, L. K. & Co. (& Contracting), 114 Liberty
 Concrete-Steel Engineering Co. (Consulting), 17 Park Row
 Cone, John J. (Consulting), 66 B'way
 Conley, Owen J. (Mining), 18 B'way
 Constant, Chas. L. (Mining), 61 Beekman
 Cook, Fredk. S., 280 B'way
 Cooke, C. H., 55 Broad
 Cooper, Hugh L. (Consulting), 60 Wall
 Cooper, Theodore (Consulting), 45 B'way
 Cornell, Geo. B. (Consulting), 20 Broad
 Corning, C. R. (Mining), 36 Wall
 Corning, Fredk. G. (Consulting & Mining), 35 Wall
 Corthell, Elmer L. (Consulting), 1 Nassau
 Coverdale, W. H. & Co. (Consulting), 66 B'way
 Crane, W. F. (Contracting), 100 William
 Crane & Sturgis (& Mining), 149 B'way
 Crawford, Robt. (Consulting), 332 E 43d
 Cregier, Henry E. & Co. (M. E.), 346 B'way
 Crehore, William W. (Consulting), 116 Nassau
 Crowell, Foster (& Mining), 18 B'way
 Culver & Steinacher (& Surveyors), 150 Nassau
 Culyer, John Y., 116 Nassau
 Curtin-Ruggles Co. (Contracting), 39 Cortlandt
 Custodis, Alphons Chimney Cons. Co., 99 Nassau
 Dana, R. T. (Consulting), 15 William
 Dare, Benj. A. (M. E.), 120 Liberty
 Darling, Oscar (Consulting & Contracting), 17 Park row
 Darlington, Jno. H. (Consulting M. E.), 45 William
 Daube, Oscar (Mining), 25 Broad
 Davids, C. H. (Consulting M. E.), 150 Nassau
 Davidson, T. W. G., 135 B'way
 Dean, Schweirs & Sutton Co. (Contracting), 136 Liberty
 Degnon Contracting Co. (Contracting), 60 Wall
 De Lauzieres & Hammond (Surveyors, Road & Canal Engineering), 1133 B'way, N. Y.
 Deman, A., 1133 B'way
 De Raasloff, Harold, 18 Burling st
 Devereux, Walter B. (Mining), 99 John
 Dero, S. Le F., 32 Nassau
 Diamond, Thomas J. (Consulting), 236 W 13th
 Dickinson, Henri D., 123 E 23d
 *Dixon, Robt. M. (M. E.), 160 B'way
 Dobson, Wm. J. M. (Consulting C. E. & M. E.), 39 Cortlandt
 Dodge, G. M., 1 B'way
 D'Olier Engineering Co. (M. E.), 74 Cortlandt
 Donnelly, Wm. T. & J. A. (Consulting M. E.), 132 Nassau
 Dooley, John, 60 Wall
 Doty, A. Duane (Consulting), 35 Warren
 Downs, Wm. (M. E.), 74 Cortlandt
 Drewsen Co. (M. E.), 5 Beekman
 Dudley, Philemon H., 136 Water
 Duenkel, C. L. (Consult C. E. & M. E.), 120 Liberty
 Dufoureaq, Edw. D. (Mining), Produce Ex.
 Du Mazuel, E. G. F., 5 Nassau
 Duncan Louis (Consulting), 56 Pine
 Duncklee, John B. (Consulting), 96 B'way
 Dunham, Herbert F. (Consulting), 220 B'way
 Du Vivier, Ernest H. (Consulting), 14 Church
 Dwight, Arthur S. (Mining), 99 John
 Dwight, Jonathan, 2 E 34th
 *Earl, Chas. I. (Patents), 76 William
 Eastwick Engineering Co. (Ltd.) (Consulting C. E. & Designers of Cane & Beet Sugar Refineries), 42 B'way
 Eaton, Geo. I. (Mining), 10 Wall
 Eaton, S. Edward Co. (M. E.), 662 Hudson
 Eccles, John L. Co. (Contracting), 117 Mercer

Edwards, Jos. & Co. (M. E.), 416 Water
 Eidlitz, Leo, Jr., 1123 B'way
 Electrical Development Co. of Ontario (Consulting), 25 Broad
 Elliott, John L. (Mining), 71 B'way
 Emerson, H. D., 7 Pine
 Empire Engineering Corp. (M. E.), 111 B'way
 Empire State Engineering Co. (M. E.), 553 E 116th
 Engineering Co. (Consulting), 111 B'way
 Engineering Inspection Co. (Consulting), 92 Liberty
 Engineering Supervision Co. (Consulting), 320 5th av
 Enscoe, Geo. R. (Contracting), 21 Park row
 Eurich, E. F. (Consulting & Mining), 15 William
 Evans, Almirall & Co. (M. E.), 281 Water
 Evans, Edw. E. (Industrial), 42 B'way
 Everett, Chas. J., Jr. (& M. E.), 346 B'way
 Eynon-Evans Mfg. Co. (M. E.), 32 B'way
 *Faber-Du-Faur & Donnelly (Consulting), 132 Nassau
 Fahn & McKinkin (Consulting), 201 E 16th
 Fairbanks & Moody (Consulting M. E.), 150 Nassau
 Farish, John B. (Consulting), 40 Wall
 Falding, Fred'k J. (Consulting), 55 B'way
 Farley, Godfrey P., 100 B'way
 Farley, John M. (Consulting), Madison av
 Farrington, Harvey (Consulting), 45 B'way
 Farrow, Edward S. (Consulting), 143 Liberty
 Farwell, Elmer S. (Consulting), 309 B'way
 Fearn, Percy L. (Mining), 36 Wall
 Feldman, A. M. (Consulting C. E. & M. E.), 120 Liberty
 Fenton, Louis G., 15 William
 Ferrum Engineering Co. (M. E.), 21 Beekman ter.
 Field, C. J. (M. E.), 82 Wall
 Field, Wilfred, B. (Mining & M. E.), 15
 Field, Wm. P. (C. E.), 18 E. 17th Broad
 Fisher, Francis D., 60 Wall
 Fitz, Harold G., 7 E 42d
 Fleming, Hy. S. (Consulting), 1 B'way
 Floy, Hy. Co. (Consulting C. E. & M. E.), 220 B'way
 Fohr, Franz (Mining), 132 Nassau
 *Ford, Bacon & Davis (Consulting, Electric Railway, Power & Lighting, etc.), 24 Broad
 Ford & Waldo (Consulting), 17 Park Row
 Forney, M. N., 1 Madison av
 *Forstall, A. E. (Consulting), 58 William
 Foster & Starbuck, 110 W. 34th
 Foundation Co. (Contracting), 35 Nassau
 *Fowler, Geo. L. (Consulting), 53 B'way
 Franklin Engineering Co. (Consulting), 346 B'way
 Frasch, Hans A. (Consulting), 52 B'way
FREVERT MACHINERY CO., 18 Dey. (See adv. index, end of book)
 Friedmann, Edw. N. (Consulting M. E.), 17 Battery pl
 Friedman, Samuel (M. E.), 189 Christie
 Frith, A. J. (M. E.), 39 Cortlandt
 Frost, Geo. H. (Pres. Eng. News Pub. Co.), 220 B'way
 Fry, Alfred B. (M. E.) (Chief Engineer, U. S. Treasury Service), P. O. bldg
 Fryer, Wm. J. (Consulting), 26 Cortlandt
 Fuertes, Jas. H. (Consulting, Water Supply, Sewerage, Sewage Disposal, etc.), 140 Nassau
 Fuller, Geo. W. (Consulting), 170 B'way
 Gardam, Wm. & Sons (Inc.) (M. E.), 45 Rose
 Gardner Engineering Co., 136 Liberty
GAS POWER CO. (Chemical, Gas & Combustion), 60 Wall. (See adv. index, end of book)
 Gerber & Zimmerman, 105 E 22d
 Gerhardt, Wm. P. (Consulting), 33 Union sq, W.
 *Gibbs, Geo. (Consulting), 8 Bridge
 Gilbert, Frank B., 34 W 26th
 Gillberg & Hamilton (M. E.), 29 B'way
 Gillespie, G. Curtis (M. E.), 9 Warren
 Glasser, Fred'k E. (& Surveyor), 70 Manhattan
 Goble, Frank N. (Contracting), 1 E 42d
 Goeben, Chas. V. (Consulting), 114 Liberty
 Goldmark, Chas. J. (Consulting M. E.), 7 W 38th
 Goodrich, E. P. (Consulting for Concrete Construction), 1170 B'way
 Goss & Bryce (M. E.), 76 William
 Gotshall, Wm. C. (Consulting), 76 William
 Granger, A. D. Co. (Consulting), 95 Liberty
 Gray, J. H. Co. (Consulting), 949 B'way
 Greenbaum, Leo S. (M. E.), 151 E 71st
 Greene, Carleton, 142 E 33d
 Greene & Greene (Consulting Docks, Foundation, Paving Plants, Concrete Machinery, etc.), 11 B'way
 Griffith, Chas. G. (Mining), 15 William
 Griggs, J. S., Jr. (Consulting M. E.), 25 Broad
 Guion, Barnard R. (& Surveyor), 1383 Washington av
 Gustin, R. Prosper, 60 Wall

*Hague, Charles A. (Consulting), 52 B'way
 Haight, Horace D., 22 Platt
 *Hall, Robert E. (Sec'y, New York Steam Fitting Co.), 147 Lafayette
 Hallsted, Jas. C. (Consulting), 66 B'way
 Hamilton & Hansell (Mining), 29 B'way
 Hammer, Wm. J. (Consulting), 26 Cortlandt
 Hammond, Jno. H. (Mining), 71 B'way
 Hamshaw, Clarence M., 220 B'way
 Hamshaw, Fletcher T. (& M. E.), 220 B'way
 Hanchett, Geo. T. (Consulting), 114 Liberty
 Hardy, Geo. F. (Consulting Paper Mill, etc.), 309 B'way
 Harrington, Samuel H. (M. E.), 120 Liberty
 Harrison, Burt S. (Consulting), 79 Wall
 Harrison, Chas. L., 345 E 33d
 Hart, B. Franklin, Jr. & Co. (Contracting), 143 Liberty
 Hartmann, Andrew P. (& Surveyor), 61 William
 Hartpence, Chas. C. (Consulting C. E. & M. E.), 126 Liberty
 Haskins, Wm. J. (Consulting), 97 Cedar
 Hassan, Alia (Mining), 11 B'way
 Haswell, Charles H. (Consulting), 324 W 78th
 Hayes, Geo. S. (Consulting), 111 5th av
 Hazen, Whipple (Consulting, Water Filtration & Sewage Disposal), 220 B'way
 Heath, Willis H. (M. E.), 76 William
 Heerdegen, Jno., 44 B'way
 Henderson, George R. (M. E.), 20 W 34th
 Hendrickson, James F., Jr. (Mining), 70 Wall
 Hennebique Construction Co. (Inc.) (Contracting), 1123 B'way
 *Henning, Gustav C. (Consulting C. E. & M. E.), 150 Nassau
 Hering & Fuller (Consulting, Water Supply & Purification, Sewerage, Sewage Disposal, etc.), 170 B'way
 Herschel, Clemens, 2 Wall
 Herschmann, Arthur J. (Contracting), 45 B'way
 Herz & Co., 203 Lafayette
 Herzog, S. & Co. (M. E.), 955 2d av
 Hesse, G. E. (M. E.), 39 Cortlandt
 Heyward, Jas. F., 15 William
 Hicks, J. M. (Consulting), 17 Park pl
 Hildreth & Co. (Consulting C. E. & M. E.), 50 B'way
 *Hill, Geo. (Consulting), 33 Union sq. W.
 Hill, G. E. (Consulting & Contracting), 156 5th av
 Hill, Malcolm W. Co. (Contracting), 317 W 42d
 Hill, Walter H. (Consulting), 25 Broad
 Hill, Rowland F. (Mining), 116 Nassau
 Hill & Irvine (M. E. Consulting), 25 Broad
 Hirt, Louis J. (Consulting), 29 B'way
 Hiscox, Gardiner D. (Consulting), 95 Liberty
 Hodge, Henry W., 1 Nassau
 Hoffman, Christian (M. E.), 290 Pearl
 Holbrook, J. B. (Consulting M. E.), 25 Broad
 Holden, E. C. (Mining), 74 Wall
 Holmes, Fred. S. (M. E.), 80 Wall
 Hood, R. H. Co., 299 B'way
 Hooper, Geo. K. (Consulting), 11 B'way
 Hooper, John J., 215 W 125th
 Horenburger, Herman, 682 E 159th
 *Hough, David L. (Consulting), 32 E 33d
 Hudson Engineering & Contracting Co. (Contracting), 92 William
 *Humphreys & Glasgow (Consulting C. E. & M. E.), 31 Nassau
 *Hunt, Chas. W., 45 B'way
 Hunt, Robt. W. & Co. (Consulting & Testing), 66 B'way
 Hurd & Co. (M. E.), 316 Hudson
 Hutchins, J. P. (Mining), 52 B'way
 Hutchinson, Cary T. (Consulting), 60 Wall
 Idell, Frank E. (Consulting), 26 Cortlandt
 Ibseng, A. O. (Mining), 45 B'way
 Jack, Chas. P. M. (Consulting), 68 Broad
 Jacobs, Chas. M., 1 W 34th
 Jacobs & Davies (Consulting), 128 B'way
 Jarrett, Edwin S. (Consulting), 35 Nassau
 Jeffries, E. A. W. (M. E.), 27 William
 Jenks, L. Howard (M. E.), 39 Cortlandt
 Johnson, Wallace C. (M. E. & C. E.), 43 Exchange pl
 Johnston, Albert T., Jr., 42 B'way
 Johnston, Edw. D. (Surveyor), 135 B'way
 Johnstone, August (Contracting M. E.), 11 B'way
 Jones, Thomas L., 19 Park row
 Jonson, Julius (Consulting), 79 E 130th
 Judd, Edw. K. (Mining), 55 Fulton
 Judson, Cyrus F., 135 B'way
 Judson, John N. (M. E.), 15 Broad
 Just, Geo. A. Co. (Consulting & Contracting C. E.), 239 Vernon av
 *Kafer, John C., 374 5th av
 Kafka, F. P., 34 W 26th
 Kaltenbach & Griess (M. E.), 11 B'way
 Katte, Edwin B., 5 Vanderbilt av
 Kaufman, A. G. (Consulting), 24 Murray
 Kaufman, Gustave (Consulting & Contracting), 251 W 95th
 Keenan, James T. (Mining), 601 W 26th

Keeney, George P. (Consulting), 601 W 26th
 Keith, Herbert (Consulting), Hanover Bank bldg
 Keller, Herman A. (M. E.), 30 Pine
 Kelley, Wm. V., 1123 B'way
 Kellogg, M. W. & Co. (Contracting), 37 Dey
 Kelly, Hugh & Co. (Contracting), 79 Wall
 Kelly, Jno. F. (Consulting), 149 B'way
 Kelly & Kelley (Contracting), 45 E 42d
 Kempton & McCoy (Mining & M. E.), 29 B'way
 Kennedy, J. J., 52 B'way
 Kennedy, Wm. P. (Consulting), 7 E 42d
 Kenny, Jno. Jr., 39 Cortlandt
 *Kerr, W. C., 8 Bridge
 Kidde, Walter (Contracting), 85 Liberty
 Kidney, A. H. (Mining), 1917 B'way
 Kilpatrick, Jno. D., 92 William
 Kimball, Jas. P. (Mining), 156 5th av
 Kimble, S. W. (Mining), 444 Pearl
 King, W. R. (Consulting C. E. & M. E.), 52 William
 Kinsman, Frank E. (Consulting), 91 Liberty
 *Kirchoff, Chas. (Editor Iron Age), 232 William
 Kirkegaard, George (M. E.), 514 Pearl
 Klein, Wm. W., 21 Park row
 Klepetko, Frank (Consulting & Mining), 24 State
 Knapp, Jno. A. (Consulting C. E. & Mining), 15 William
 Knobloch & Mehrten (M. E.), 284 Pearl
 Knowles, Edw. R. (Consulting C. E. & M. E.), 120 Liberty
 Knowles Engineering Co. (M. E.), 123 Liberty
 Knox, Charles E. (Consulting), 76 William
 Knox & Allen (Mining), 82 Beaver
 Knox, Douglass (& Surveyor), 686 Kingsbridge rd
 Koyle C. Henschel (Consulting), 18 B'way
 Kreuger, Ivar (Consulting), 1 Madison av
 Kraft, Wm. (Mining), 7 Pine
 Kraus, Otto (Consulting C. E. & M. E.), 136 Liberty
 Krause, August H. (M. E.), 200 St. Nicholas av
 Kuichling, Emil, 52 B'way
 Kunhardt, W. B. (Mining), 1 B'way
 Ladinsky & McKenna (M. E.), 137 Christie
 Lamb, Richard, 136 Liberty
 Lancaster, James H. Co. (Consulting, Contracting, Mining & M. E.), 26 Cortlandt
 Landgrebe, Paul, 76 William
 Langton, Jno. (Consulting), 99 John
 *Lansing, Jang (Consulting), 21 Park row
 Lant, Frank P., 21 Park row
 Laureau, L. G., 1 W 34th
 Lawlor, Thos. F. (Consulting), 69 Wall
 Lawrence, Benj. B. (Mining), 56 Wall
 Lawyers' Engineering & Surveying Co., 135 B'way
 Layng, Hy. G. (Consulting), 45 B'way
 Leavitt, Chas. W., Jr., 15 Cortlandt
 Leavitt, F. M. (Consulting C. E. & M. E.), 258 B'way
 Ledoux & Co. (Consulting & Mining), 99 John
 Lee, Harry A. (Consulting), 52 B'way
 Lefevre, Henry F. (Consulting), 71 B'way
 Le Fevre, Peter E. (M. E.) (Superintending Engineer, Ocean S. S. Co.), Pier 35, N. R.
 Leighton, Robert (M. E.), 126 Liberty
 Lessem, Samuel (Mining), 32 B'way
 Letson, T. H., 39 Cortlandt
 Levering & Garrigues Co. (Steel Work & Consulting), 522 W 23d
 Lewinson & Co. (Contracting), 128 W 42d
 Lewis, Frank (Machinery Designer), 136 Liberty
 Lewkowicz, Anthony J. (M. E.), 229 B'way
 Lidner, P. Gustav (Mining), 130 Lex. av
 Lindenthal, Gustav (Consulting), 45 Cedar
 Livingston, Johnston, Jr. & Co. (M. E.), 113 E 22d
 Lloyd, R. L. (Metallurgist), 71 B'way
 Lockwood, Judda, 600 Lenox av
 Long, E. McL., 220 B'way
 Longden, John N. (M. E.), 1300 B'way
 Longnecker, Chas. K. (M. E.), 126 Liberty
 Loomis, Horace B. (C. E.), Jerome Park
 Loomis, Horace, 21 Park row
 Loretz & Son (Consulting C. E. & M. E.), 150 Nassau
 Loss, Warren, 156 B'way
 Lough, Gerald E. (M. E.), 26 Cortlandt
 Low, Geo. E. (Consulting), 45 B'way
 Lowe, Wm. Bell. (Mining), 42 B'way
 Lowenstein, Fritz (Consulting), 150 Nassau
 Lucins, Albert (Consulting), 38 Park Row
 Lucke D'Aix, F. C. (& M. E.), 11 B'way
 Ludlam, Harry W. (M. E.), 56 Pine
 Ludwig, Alfred (Consulting), 79 Wall
 Lurie, John (Consulting M. E., Electric Railway, Power & Lighting, etc.), 52 B'way
 Luquer, T. T. P. (Consulting), 5 W 31st
 Lynch, C. J. L. (Surveyor), 39 Cortlandt
 Lyndon, Lamar (Consulting), 80 William

Lyne, Lewis F. (M. E.), 10 Barclay
 McCann, Edward (Consulting), 37 Dey
 McClave, Rimmer & Co. (Contracting), 85 Liberty
 McCord, James B., 29 B'way
 McCoy, Percy B. (Mining & M. E.), 29 B'way
 McCulloch, R. A., 51 Chambers
 McDermott, Alex. (Consulting), 15 Whitehall
 McGonagle, Arthur Co. (Contracting), 136 Liberty
 McGuire, Jas. C. (Contracting & Consulting C. E.), 26 Cortlandt
 McIntire, Thos. B. & Co., 1011 E 156th
 McKay, John E., 21 Park row
 McKenna, Chas. F. (Consulting), 221 Pearl
 McKim, Alex. Rice (Consulting Structural), 1193 B'way
 McLean, Embury (Consulting C. E. & M. E.), 111 B'way
 McMurtrie-Guiler Co. (Consulting), 69 Wall
 McNulty, Geo. W., 258 B'way
 McTighe, Leo. A. (M. E.), 17 Park row
 MacCormack, John (Contracting), 195 B'way
 Macdonald, Chas., 2 Wall
 Macdonald, W. S. (Consulting), 2 Wall
 Mack, Franklin D. (Consulting), 346 B'way
 Mack, Michael J. (& Surveyor), White Plains av
 Mackay, Alfred (Consulting), 150 Nassau
 Mackay Engineering Co. (M. E.), 149 B'way
 MacKenzie, Quarrier & Ferguson (M. E.), 114 Liberty
 MacNeille, Perry R. (Consulting), 2 E 33d
 Mailloux, C. O. (Consulting), 76 William
 Main, Wm. (Consulting), 150 Nassau
 Maloney, James H. (& Surveyor), 763 E
 Man, Albon P., 56 Wall
 Manahan, J. Archibald, 1907 Park av
 Manhattan Engineering Co. (M. E.), 19 Whitehall
 Mannados Eng. Co. (Consulting C. E. & M. E.), 1123 B'way
 Mansfield, Merriman & Hudson (Consulting), 45 B'way
 Mapes, Chas. A. (Surveyor), 2804 3d av
 Marsh, Clarence W., 569 5th av
 Martin, Frank S., 52 Beaver
 Martin, Wisner B. (Consulting), 17 Park row
 Mashek, Geo. J. (Consulting), 21 Park row
 *Mason, D. A. (M. E.), 502 Produce Ex
 Mason, Volney W., Jr. (Consulting C. E. & M. E.), 253 B'way
 Masters, Henry H. (Consulting), 25 Whitehall
 Mathis, T. H. (Mining), 42 B'way
 Mattair, L. H. (Mining & C. E.), 346 B'way
 Mayer, Jos. (Consulting), 1 B'way
 Maynard, Geo. W. (Consulting & Mining), 20 Nassau
 Mayor, Farkas (M. E.), 36 E 4th
 Meads, Chas. & Co., 220 B'way
 Meier, Conrad (Consulting), 27 E 22d
 *Meier, E. D., 11 B'way
 Meikelham, T. M. R. & W. B. D., Jr. (Consulting), 44 Broad
 Merrill, F. J. H. (Consulting), 306 W 111th
 Merrill, Horace B. (Contracting), 120 Liberty
 Mesa, Henry (Surveyor), 39 Cortlandt
 Messiter, E. H. (M. E.), 21 Park row
 Meyer, Chas. A. & Son (& Surveyors), 194 Bowery
 Meyer, Henry C., Jr. (Consulting), 1 Madison av
 Meyer, Julius (Consulting), 19 Liberty
 Meyers, Chas. B. (Consulting), 1 Union sq W
 Mickley & Smith (M. E.), 19 Thames
 Miller, Frank, 39 Cortlandt
 Miller, Frederick H. (M. E.), 757 B'way
 Miller, Samuel O., W 116th & Amsterdam av
 Miller, Spencer, 96 Liberty
 Milliken, Geo. F. (Mining), 105 E 19th
 Milliken Bros., 11 B'way
 Minard, Fredk. H. (Mining), 44 Wall
 Mines & Metallurgical Co. (Consulting), 11 B'way
 Mitchell Co. (M. E.), 621 W 24th
 Moeller, Fred (Consulting), 346 B'way
 *Moore, Chas. A., Manning, Maxwell & Moore, 85 Liberty
 Moore, Chas. C. & Co. (Consulting), 26 Cortlandt
 Moore, Chas. H., 26 Cortlandt
 Moore Cyanide Process Co. (Mining), 11 B'way
 Moore, Ernest C., 45 E 42d
 Moore, John D. (M. E.), 45 Liberty
 Moore, J. R. (Consulting), 156 5th av
 Moran, D. E., 35 Nassau
 Morey, Wm., Jr., 788 B'way
 Morgan, C. J. (Mining), 15 William
 Morrison, Edward J. (Mining), 18 B'way
 Morrison, Hy. P. (& Surveyor), 17 Park row
 Morrow, J. T. (Consulting), 24 Broad
 Morse, Wm. F. (Consulting), 18 B'way
 Moses, P. R. (Consulting), 320 5th av

Moss, Robt. E. (Consulting), 12 Elm
 Motley, W. G. & Co. (Mining), 32 B'way
 Moulton Mace (Consulting Bridges & Steel Structures, etc.), 150 Nassau
 Muehlenbeck, C., 42 New
 Mueser, Wm. (Consulting), 17 Park Row
 Murgatroyd, Hy. E. (Surveyor), 1901 Bathgate av
 *Murray, Thos. E. (Gen'l Mgr., New York Electric L't, Heat & Power Co.), 57 Duane
 Mussinan, O. M. (Consulting C. E. & M. E.), 11 B'way
 Myers, Chas. H. (Consulting), 45 B'way
 Nagel, Oskar (Consulting & Contracting), 96 Wall
 Namur, August (Consulting), 1 Madison av
 Nash Engineering Co. (M. E.), 141 B'way
 *Nason, C. W., 71 Fulton
 Nassau Engineering Co. (Contracting), 44 Pine
 National New Process Lime Co. (Contracting), 39 Cortlandt
 Nau, Jno. B. (Consulting), 1 B'way
 Neff, Elmer H. (Consulting), 1 B'way
 Neffel, Knight (Consulting), 7 E 42d
 New Britain Machine Co. (M. E.), 135 B'way
 Newhall, John B. (M. E.), 114 Liberty
 Newhall, Thomas (Contracting), 49 Wall
 N. J. Bridge Co. (M. E.), 949 B'way
 New York Engineering Agency, 35 Warren
 New York Sewage Disposal Co. (C. E.), 1 Madison av
 New York Steam Fitting Co. (M. E.), 137 Elm
 Nichols, H. P., 280 B'way
 Noble, Alfred, 1 W 34th
 Norris, R. V. (Consulting), 99 John
 Nostrand, P. E. (& Surveyor), 37 Liberty
 Olcott & Corning (Consulting & Mining), 36
 Olmstead, G. S., 97 Nassau Wall
 Olney, Geo. R., 17 Park Row
 Olsen, Charles (M. E.), 550 W 29th
 Oisen, N. O. (M. E.), 402 Pearl
 Olson, John E. (M. E.), 168 W 23d
 Omega Construction Co. (M. E.), 308 Hudson
 Opdycke, Henry G. (& Surveyors), 92 Liberty
 Ordman, Max D. (Consulting C. E. & M. E.), 280 B'way
 O'Rourke Engineering Construction Co. (Contracting), 1 W 34th
 O'Rourke, John F., 1 W 34th
 *Orr, Alex. M., Jr., 50 B'way
 Osborn Engineering Co. (& M. E.), 45 B'way
 Ostrup, John C. (Consulting), 63 Wall
 Packard, Edwin (Mining), 45 Cedar
 Palliser, Geo., 41 W 24th
 Parke, Channing J. (Consulting), 11 B'way
 Parker, Asa W., 45 B'way
 Parker Engineering Co. (M. E.), 18 E 42d, New York
 Parmelee, Chas. L. (Consulting), 136 Liberty
 Parmley, Walter C. (Consulting), 114 Liberty
 *Parsons, H. de B. (Consulting), 22 William
 Parsons, Wm. B. (Consulting), 60 Wall
 Paterson, Henry A., 22 State
 Patten, John (M. E.), 106 Liberty
 Pattison Bros. (Consulting), 949 B'way
 Payne, C. Q. (Mining), 99 John
 Payne Engineering Co., 85 Liberty
 Pearce, C. E. (Consulting M. E.), 25 Broad
 Pearce, R. T. (M. E.), 95 Liberty
 Pearce, Arthur L. (Mining), 15 Broad
 *Pearson, F. S. (Consulting), 29 B'way
 Pearson, James J. (Consulting), 29 B'way
 Pelton Water Wheel Co. (M. E.), 143 Liberty
 Percival, A. L. & Co. (Consulting), Produce Ex
 Perin, Chas. P. (Consulting & Mining), 71 B'way
 Perrine, Fred. A. C. (Consulting), 49 Wall
 Perry, O. B. (Mining), 71 B'way
 Phillips, Ellis L. & Co. (Consulting), 45 B'way
 Phillips & Worthington (Contracting), 136 Liberty
 Phipps, Edward H. (Consulting), 220 B'way
 Piatti, Paul J. (Consulting & Contracting), 156 5th av
 Pierce, Chas. D. (Consulting), 136 Liberty
 Pierce Well Engineering & Supply Co. (Consulting & M. E.), 136 Liberty
 Pierson & Goodrich (Consulting), 281 4th av
 Pilkington, Herbert M. (M. E.), 5 Cedar
 Pitts, Thos. D. (Consulting), 45 B'way
 Pittsburgh Testing Laboratory (Mining), 60 New
 Place, Jas. F. (Consulting), 256 B'way
 *Platt, John (Consulting), 97 Cedar
 Plymouth Realty Co. (Contracting), 1368
 Poisson, E. P., 8 Bridge B'way
 *Pollock, Alex., 203 West
 Pollock, Edw. E. (M. E.), 123 Liberty
 Post, Hy. W. (Consulting), 281 4th av
 Potrykus, Paul (Contracting), 74 Cortlandt

Potter, Alex. (Consulting), 143 Liberty
 *Potter, Fred'k D. Co., 39 Cortlandt
 Powell, George G. (Consulting), 115 B'way
 Powell, Wm. C. (Contracting), 123 Liberty
 Power & Mining Mach. Co. (Consulting), 52 William
 Power Specialty Co. (Consulting), 126 Liberty
 Prado, Robert (M. E.), 25 Whitehall
 Pratt, Chas. R. (Consulting), 160 5th av
 Pratt Engineering Co. (Contracting), 139 W 24th
 Providence Cons. Co. (Mining), 5 Nassau
 Providence Engineering Works (M. E.), 42
 Purdy, Corydon T., 114 Liberty B'way
 Purdy & Henderson, 78 5th av
 Quinby, Frank H., 99 Nassau
 Rae, Frank B. (Consulting), 42 B'way
 Ragona, Salvador (M. E.), 568 W B'way
 Randall, Geo. W., 1123 B'way
 Randall, Wesley (M. E.), 71 B'way
 Raudolph, Jno. C. F. (Consulting & Mining), 15 Broad
 Ransome & Smith Co. (Consulting), 11 B'way
 Raque, Philip E. (Consulting & Contracting), 136 Liberty
 Rauch, Henry (M. E.), 47 Cedar
 Rausing Co. (Contracting), 26 Cortlandt
 Raymond, Rossiter W. (Consulting & Mining), 99 John
 Realty Engineering Co., 198 B'way
 Reed, S. A. (Consulting), 17 Battery pl
 Reed, Wm. B., Jr., 556 W 34th
 Rees & Co. (M. E.), 220 E 86th
 Reese, Thos., Jr. (M. E.), 19 Whitehall
 Reid, Thoburn (Consulting), 35 Nassau
 Reinert, Fred'k (& Surveyor), 280 B'way
 Reis & O'Donovan (Consulting M. E.), 1123 B'way
 Rendall, Geo. F. (Mining), 120 Liberty
 Renner, Morgan M., 11 B'way
 Rennerfelt, T. G. (Consulting), 45 B'way
 Reno, Jessie W. (Mining), 553 W 33rd
 Renwick, Edward S. (M. E.), 19 Park pl
 Revay, Geo. (Consulting), 45 Cedar
 Reynolds, John P., Jr. (M. E.), 100 William
 Rice, Calvin W. (Consulting), 44 Broad
 *Richards, Chas. R. (Dir. Dept. Manual Training, Teachers' Col., Columbia Univ.)
 *Richards, Francis H. (Expert in Patent Cases), 11 Murray
 Richards & Gastou (Contracting), 143 Liberty
 Ricketts & Banks (Mining), 104 John
 Ries, Elias E. (Consulting), 116 Nassau
 Riordan, D. M. (Mining), 42 B'way
 Risse, Louis A. (& Surveyor), 21 Park row
 Robbins, Percy (Consulting), 60 Wall
 Roberts, Evelyn P. (Consulting), 242 W 53d
 Robertson, Wm. P. (& Mining), 66 B'way
 *Robinson, John M. (M. M. & Supt.), 15 Broad
 Rochow, Ferdinand (M. E.), 18 B'way
 Rockwell Engineering Co. (M. E.), 26 Cortlandt
 *Roelker, Hugo B. (Consulting), 41 Maiden
 Rogers, Allen H. (Mining), 82 Beaver la
 Rogers, E. M. (Mining), 32 B'way
 Rogers, Geo. H. (& Surveyor), 150 Nassau
 Rolf, Bernard, 39 Cortlandt
 Roman, Joseph M. & Co. (Contracting), 136 Liberty
 Roney, C. Henry (Consulting), 42 B'way
 Root, Geo. M. (Surveyor), 2 Stone
 Rose, Kenneth (Consulting), 15 William
 Rosa, Paul (Surveyor), 108 Fulton
 Rosenberg, Ignatz I., 202 2d av
 Ross, Lucien D., 1 Union sq, W.
 Ross & Rodman (Consulting), 17 State
 Rossi, Auguste J. (& Mining), 35 B'way
 Roullier, Gustave A., 17 Park Row
 Rouquette & Co. (Consulting), 47 Dey
 Rowland, George R. (M. E.), 245 B'way
 Ruben, Fred'k W. (Surveyor), 51 Chambers
 Rudolphy, Jacob (Surveyor), 703 Lexington av
 Ruggles, Horace F. (M. E.), 106 Wall
 Ruggles, James H. (Consulting), 35 Nassau
 Ruggles, Wm. B., 39 Cortlandt
RUGGLES-COLES ENGINEERING
 Co. (M. E.), 39 Cortlandt. (See adv. index, end of book)
 Ruprecht, Louis (Consulting), Produce Ex.
 Rusling Co. (Contracting M. E.), 26 Cortlandt
 Safford, Edward S. (Consulting), 143 Liberty
 Sague, Jas. E. (M. E.) (Vice Pres.), 111 B'way
 Sandbach, B. W. & Co. (Contracting), 101 Prince
 Sanderson & Porter (Consulting M. E., Electric Railway, Power & Lighting), 52 William
 Sanford, Harry C., 17 Park row
 *Sanguinetti, Percy A. (Consulting, Mining & M. E.), 39 Cortlandt

Sanitary Engineering Co. (Consulting), 237
 Saussez, Lusien, 308 W 129th B'way
 Sayles Co. (M. E.), 446 4th av
 *Sayward, John F. (H. & V. Engr.), 21 W
 Schaefer, J. H., 280 B'way 24th
 Schmitz, E. Jos. (& Mining), 154 Alex av
 Schofield, Geo. W., 302 B'way
 Scofield Co. (Contracting), 21 Park row
 Scofield Construction Co. (Contracting), 21 Park row
 Scofield, Glenn M. (& M. E.), 17 Park row
 Scholl, Julian & Co. (Contracting), 126 Liberty
 Schroeder, John A. (M. E.), 149 B'way
 Scott, Chas. H., 100 B'way
 *Seaman, Henry B. Consulting, 40 Wall
 Secor, J. A. (Consulting), 126 Liberty
 *See, Horace (& Naval Architect), 1 B'way
 Serrell, Lemuel W. (Est. of) (Consulting M. E., Electric, Railway, Power & Lighting Plants, etc.), 29 B'way
 Serrell & Schenck (M. E.), 17 State
 Sever, Geo. F. (Consulting), 17 Park Row
 Sharpless, Fred'k S. (Consulting Mining), 52 B'way
 Shaw, Chas. H. (M. E.), 141 B'way
 Shedlock, Alfred (M. E.), 45 B'way
 Shepard, Gilbert R. (M. E.), 5 Dutch
 Sherwood & Grattan (Consulting), 45 B'way
 Simonds & Burns (Mining), 60 Wall
 Simonds & Wainwright (Mining), 159 Front
 Simpson, Geo. (Consulting), 51 Wall
 Sirocco Engineering Co. (M. E.), 22 Thames
 Skinner, Frank W., 114 Liberty
 Slade, Arthur J. (M. E.), 4 E 42d
 Sloan, H. L. & Co. (M. E.), 32 B'way
 Small & Schumann, 265 B'way
 Smidth, F. L. & Co. (Consulting, Contracting, Cement Plants & M. E.), 39 Cortlandt
 Smith, A. Delos (M. E.), 156 5th av
 Smith, Augustus (Contracting), 39 Cortlandt
 Smith, F. H., 16 Exchange pl
 *Smith, Jesse M. (Consulting & Electrical & Expert in Patent Cases), 220 B'way
 Smith, Mortimer A., 90 W B'way
 Smith, Robert W. (Civil), 136 Liberty
 Smith, T. G. & Co., 29 B'way
 Smithers, Jos. P., Jr. (Surveyor), 150 Nassau
 Smyth, David W. (Mining), 41 Liberty
 Snare & Triest Co. (Steel Structural), 143 Liberty
 Snow, Chas. H., University Hts.
 SooySmith, Chas. (Consulting), 71 B'way
 Soper, Geo. A. (Sanitary), 20 B'way
 Sorzano, Julio F. (Consulting), 52 B'way
 *Soule, R. H. (Consulting), 20 W 34th
 Souther, Henry (Consulting), 7 E 42d
 Spence, Peter C., 70 W 71st
 Spheropolar Engineering Co. (M. E.), 72 Trinity pl
 Spiisbury, E. G. Engineering Co. (Consulting), 45 B'way
 Spindler, H. H. (Surveyor), 2804 3d av
 Sprague, Timothy W. (Consulting), 25 Broad
 Spurr, J. Edward (Mining), 71 B'way
 Standard Temperature Regulator Co. (M. E.), 136 Liberty
 *Stanton, Jno. (Pres., Copper Mining Co.), 11 William
 Stanton, Robert B. (Consulting), 66 B'way
 Starr Engineering Co. (Consulting & Contracting), 258 B'way
 Starr-King Development Co. (Mining), 5 Nassau
 Steam Producer & Engineering Co. (Contracting), 42 B'way
 Steel Concrete Construction Co. (Contracting), 21 Park row
 Steers, Henry, Jr. (Consulting & Contracting), 17 Battery pl
 Stehlin-Miller Co. (M. E. Consulting), 624 Madison av
 Stern, E. W. (Consulting), 5 W 38th
 Stetson, Thos. D. (Mech'l Expert & Patents), 108 Fulton
 Stevens, Harry (M. E.), 39 Cortlandt
 Stevenson, Robert (Consulting), 52 B'way
 Stewart, John H., 21 Park row
 Stillman, Oscar B. (M. E.), 92 William
 Stillwell, Lewis B. (Consulting), 21 Park Row
 St. Louis Iron & Machine Works (M. E.), 135 B'way
 Stoddard, Geo. C. (& Surveyor), 217 W 125th
 Stokes, George W. (Consulting), 52 B'way
 Stone, Wilbur M. (Consulting & M. E.), 21 Park row
 Stratford, Frank B. (M. E.), 95 Liberty
 Stratton, E. Platt (Consulting Mechanical), 66-70 Beaver
 Street, Edgar L. (Consulting), 44 Wall
 Suplee, H. H. (M. E.), 140 Nassau
 Suren, Ferdinand (M. E.), 216 Centre
 Suter, Geo. A. & Co. (M. E.), 112 Wooster
 Sutherland, Alexander M. (M. E.), 49 Wall
 Sutherland, F. T. (Mining), 15 Broad

Sutton, Frank (Consulting), 91 Wall
 Sweney, Peter, 157 E 73th
 Swiecz, E. C., 44 Pine
 Swinburne & Clark (Consulting), 156 5th av
 Swindells, J. Springer (Surveyor), 6 W 14th
 Symington, Jas. 16 Exchange pl
 Tainter, F. S., 92 William
 Tape, Robert (M. E.), 1598 Bathgate av
 Taylor & Ely (Consulting), 500 5th av
 *Taylor, Jno. T., 156 5th av
 Teu Broeck, Floyd G. (Consulting), 136 Liberty
 Terry, James & Co. (Contracting), 403 W
 Thacher, Edwin, 17 Park Row
 Thayer, B. B. (Mining), 42 B'way
 Thompson, J. J. (Contracting), 11 B'way
 Thomsou, T. K. (Consulting), 17 Park Row
 *Thorpe, Platt & Co., 97 Cedar
 Tingley, R. H. Co. (Consulting), 29 B'way
 Todd, Joseph C. (M. E.), 203 B'way
 Tompkins, C. H., 95 Liberty
 Tompkins, E. DeV. (Consulting & Contracting), 1 Madison av
 Toukiug, Jas. B. (Consulting), 100 B'way
 Torrance, Henry, Jr. (M. E.), 141 B'way
 Towl, Forrest M., 26 B'way
 Towle, F. E., Jr. (Surveyor), 243 B'way
 Towle, Herbert L. (Consulting), 150 Nassau
 Towle, Stevenson (Consulting), 7 E 42d
 Towle & Towle (& Surveyors), 5 E 42d
 Townsend, Arthur R. (Mining), 114 Liberty
 Townseud, Fitzhugh (Consulting), 45 B'way
 Traylor Engineering Co. (Civil Mining), 114 Liberty
 Treadwell, M. H. & Co. (Contracting), 95
 Tribus & Massa, 84 Warren
 Trotter, Alfred W., 141 B'way
 Truesdall, W. E. (C. E.), 160 5th av
 Tucker, Benj. W. (Consulting M. E.), 143 Liberty
 Tucker, William C. (Sanitary), 156 5th av
 Tucker & Vinton Corp. (Contracting), 156 5th av
 Turbine Engineering Co. (Contracting), 17 Battery pl
 Turner Construction Co. (Contracting), 11 B'way
 *Tuska, Gustav R. (Consulting C. E. & M. E.), 62 William
 Uehling, Edw. A. (Consulting), 135 B'way
 Union Engineering Co. (Contracting), 95 Liberty
 United Engineering & Contracting Co. (Consulting & Contracting), 17 Park row
 United Heating Co. (Contracting), 174 Wooster
 Urbau Contracting & Heating Co. (M. E.), 114 5th av
 U. S. Engineering Co. (Contracting), 149 B'way
 U. S. Drying Engineering Co. (Consulting), 66 Beaver
 Upham, R. D. (& M. E.), 11 B'way
 Vail, Carl M. (M. E.), 8 Bridge
 Van Blarcom, C. W. Co. (M. E.), 108 Fulton
 Vanderhorst, Elias (Consulting), 45 B'way
 Van Horne, John G. (Consulting), 29 B'way
 Van Vleck, John (M. E.), 32 Park pl
 Van Winkle, Edw. (Consulting), Flat Iron bldg
 *Veit, Richard C. (Mgr. Marine Dept., Standard Oil Co.), 26 B'way
 Vermeule, Adrian, Jr., 203 B'way
 Vermeule, Cornelius C., 203 B'way
 Vesterdahl, Karl & Co. (Contracting), 90 West
 Vickess, Samuel (Consulting & M. E.), 111 B'way
 Vogel, Henry W. (Surveyor), 51 Chambers
 Von Bauer, Alois (& M. E.), 353 E 19th
 Von Hoffmann, Ferd., 1133 B'way
 Von Leer, I. Wayne (Mining & C. E.), 52 Front
 Von Rosenberg, Leo (Mining), 72 B'way
 Vredenburg, Watson (& M. E.), 50 B'way
 Waddell, Montgomery (Consulting M. E.), 1 W 107th
 Waddell, Robert S., 17 Battery pl
 Wagner, H. A. (Consulting), 41 Park row
 *Waite, A. M. (Consulting M. E.), 17 Battery pl
 Walbridge, G. W. & Co. (M. E.), 32 B'way
 Waldo, Leonard (Consulting), 49 Wall
 Waldo, William B. (Contracting), 21 Park row
 Walker, Robert L. (M. E.), 21 Park row
 Wallace-Jaastad-Drewsen (Consulting), 5 Beekman
 Wallace, Jos. H. (Consulting & Superintending M. E.), 5 Beekman
 Ward, Geo. A. (M. E.), 7 E. 42d
 Waring, Chapman & Farquhar (Civil Consulting), 874 B'way
 Warner, Chas. S. (Consulting), 29 B'way
 Warner, Geo. M. (M. E.), 15 Cortlandt
 Washington Co. (Contracting), 39 Cortlandt

Washington, Henry S. (Consulting), 95 Liberty
 Washington, Wm. D. H. (M. E.), 26 B'way
 Waterman, F. N. (Consulting & M. E.), 150 Nassau
 Waterhouse, John (Consulting), 29 B'way
 Waters, Robert L. (Surveyor), 9 Chambers
 Watson, R. B. (Mining), 52 B'way
 Webber, Wesley (M. E.), 135 B'way
 Webster, Albert L. (Consulting), 82 Wall
 Webster, J. O. B., 17 Park Row
 Webster, Warren & Co. (M. E.), 17 State
 Weems, David G. (Mining), 58 William
 Weightman, Wm. H. (Consulting), 29 B'way
 Weiskopf, Samuel C. (Consulting), 49 Wall
 Wellman-Seaver Morgan Co. (Consulting C. E. & M. E.), 42 B'way
 Wells, J. Hollis (Consulting), 32 Liberty
 *Wells, J. Leland (Pres., Wells & Newton Co.), 292 Av B
 Wells, Justin P. (Consulting), 136 Liberty
 Wendtland, William (M. E.), 216 Centre
 Westerberg & Williams (Contracting), 120 Liberty
 Westervelt, Wm. Y. (Consulting & Mining), 100 William
 Westinghouse, Church, Kerr & Co. (Contracting), 8 Bridge
 Wetmore & Landsing (Consulting & M. E.), 21 Park row
 Wheeler Condenser & Engineering Co. (M. E.), 42 B'way
 Wheeler, Geo. C. & A. E. (Surveyors), 265 B'way
 *Wheeler, Schuyler S. (Pres., Crocker-Wheeler Co.), 39 Cortlandt
 Whinery, Samuel (And Consulting), 95 Liberty
 Whipple, Geo. C. (Consulting), 220 B'way
 White, Hy. J. (Consulting), 120 Liberty
 White, J. G. & Co. (Consulting & Contracting), 43 Exchange pl
 White, L. B. (M. E.), 305 W 150th
 Whitney, A. R., Jr., & Co. (Contracting), 135 B'way
 Whitney, Oscar C. (M. E.), 160 B'way
 Whitney, O. R. (M. E.), 39 Cortlandt
 Wight-Easton-Townsend Co., 603 W 45th
 Wiley, Henrich & Co. (Mining), 99 John
 Willey, Hy. I. (Mining), 170 B'way
 Williams, Geo. A. & Co. (Consulting), 97 Warren
 Williams, Harvey L. (Consulting), 27 William
 Williams Heating Co. (Contracting), 81 Fulton
 Williams Engineering & Contracting Co. (Contracting), 19 Park row
 Williams, Proctor & Potts (Inc.) (Consulting, Sewers, Waterworks & General Construction), 17 Battery pl
 Williamson, F. S. (Consulting), 25 Broad
 Willis, H. E. (Consulting), 180 B'way
 Wilmoth, W. F. (Consulting), 1123 B'way
 Wilson, Fremont (Consulting), 1 Madison av
 Wilson, Henry C. (Consulting), 25 Broad
 Wilson, Homer (Mining), 5 Nassau
 Wilson-Maculen Co. (Mining), 110 Liberty
 Winterburn, Frederick W., 32 Liberty
 Wolcott, Jno. R. (Mining), 180 B'way
 Wolf, John G. (M. E.), 185 Greenwich
 *Wolff, Alfred R. (Consulting & Contracting), 130 Fulton
 Wood, Benj. B., 21 Park row
 Wood, Edgar J. Co. (Consulting), 243 B'way
 Wood, Matthew P. (Consulting), 12 W 31st
 Woodbridge, James E. (M. E.), 140 Nassau
 *Woolson, Ira Harvey (Instr. in Mechanical Engineering, Columbia Univ.)
 Woolson & Deck Co. (M. E.), 26 Cortlandt
 Worden, Edwin S., 249 W 128th
 Wrigley, Roy F. (Mining & M. E.), 42 B'way
 Wright, J. K. (M. E.), 136 Liberty
 Wright, Louis A. (Mining), 42 B'way
 Wyeth, Chas., 1 Madison av
 Wylie, Jas. A. (Surveyor), 108 Fulton
 Wynn, Hy. G., 121 E. 44th
 Yeatman, Pope (Mining), 71 B'way
 York, Herbert W. (Mining), 71 B'way
 Young, Wm. R. (M. E.), 26 Cortlandt
 Young, Wm. W., (Consulting), St. Paul bldg
 Zabriskie, A. J., 23 5th av
 Zalinski, E. L. (Consulting), 201 E. 16th
 Zerbe, J. S. & A. J. (Consulting C. E. & M. E.), 11 B'way
 Zirkel, William J. (Mining), 237 B'way
 Zook, Morris A. (Consulting), 29 B'way

Borough of Queens.

ELMHURST—Hyatt, Cornelius
 FAR ROCKAWAY—Conklin, E. W. & Sons (& Surveyors), Central av nr Cornaga av

FLUSHING—Bogert, Jno. L. (M. E.), Myrtle av
 Tunis, O. Lyman (M. E.)
 Grotz, Peter E. (M. E.), Myrtle av nr Lawrence
 Hanimann, Charles (M. E.), 127 Leavitt
 Haviland, Geo. W., Jr. (& Surveyor)
 Kouhn, Jno. J., 102 Amity
 GLENDALE STATION—Browne, Walter G. (& Surveyor)
 JAMAICA—Conklin, Ezra W. & Son, 448 Ful-Evans Bros. ton
 Kurz, Robert (Surveyor), 26 Ackroyd av
 McLaughlin, Sylvester H. (& Surveyor), 324 Fulton
 LAUREL HILL—*Boenig, Robert W. (Consulting, Nicholl's Chemical Co.)
 LONG ISLAND CITY—Beebe, Alexander S. (Surveyor), 24 Jackson av
 Haase, Hugo (M. E.), 561 Pomeroy
 Meyers, Willard F. (M. E.), Vernon av c 14th
 *Richardson, Clifford (Dir. Testing Laboratory), 6th & West av
 Skeen, Fred'k, 411 Lockwood
 Smith, Leonard C. L. (& Surveyor), 24 Jack-Tait, Harold, 5th & Jackson av son av
 Vanalst, Peter G., 702 Vernon av
 NEWTOWN—Bartlett, Homer L.
 RICHMOND HILL—*Wallis, Philip (Supt. M. P. L. I. R. R. Co.)
 WOODHAVEN—Deehan, Jas. F. (& Surveyor), 1503 University pl

Borough of Richmond.

LINOLEUMVILLE—*Melvin, Davin N. (Supt., American Linoleum Mfg. Co.)
 NEW BRIGHTON—Creedeu, Jno. F., Rich bldg
 Fetherston, John T., Rich bldg
 Freeman, Llewellyn W., Rich bldg
 Frey, Michael F., R. R. Station
 Oxholm, Theo. S., Rich bldg
 Pratt, Wm. A., R. R. Station, St. George
 Riches, Jas. H., Rich bldg
 Rotheroe, Fred'k J. (& Consulting), 407
 Snedeker, Wm., Rich bldg Rich ter
 Stout, Elarson, Rich bldg
 Tribus, Louis L., Rich bldg
 Tuttle, Geo. W., Rich bldg
 PORT RICHMOND—Gonigal, John F., Granite-Kelly, Thomas M., 5 Anderson av ville
 ROSEBANK—Shortt, Jno. H., Sea av n Rich av
 TOTTENVILLE—Yeatman, Hubbard R.
 WEST NEW BRIGHTON—Morrison, Hy. P., (& Surveyor), 177 Rich ter
 Pettigrew, Walter E. (& Surveyor), 177 Rich ter
 (END OF NEW YORK CITY)
 NIAGARA FALLS—Brackenridge, W. A. (Consulting), 824 Ashland av
 Burns, E. Z., 824 Ashland av
 Douglass, A. C. (Mining)
 Johnson, W. C. (Consulting)
 Jones, Walter (City)
 McCullough, Walter.
 Palmer, Powles D. (M. E.), 9 Maple av
 Porter, Jones & Schaeffer
 NORTH TONAWANDA—Cushing, B. L.
 Smith, A. P. (& Surveyor)
 NYACK—Demarest, J. E.
 OGDENSBURG—Tate, Geo. A.
 Tate, Thomas B.
 ONEONTA—O'Harman, H.
 Seybolt, A.
 Miller, Orson A. (City)
 OSSINING—Horton, Wilbur E. (& M. E.), 165
 Palmer, Powles D., 9 Maple av Main
 OSWEGO—Harris, Nelson J., City Hall.
 PAINTED POST—*Parsons, Fred'k W. (Treas., Imperial Engine Co.)
 PATCHOGUE—Applegarth, A. P.
 Smith, Emmett
 PEEKSKILL—Reynolds, I. W.
 Wright, Geo.
 PLATTSBURG—Averill, H. K.
 Johnson, C. W. M.
 PORTCHESTER—*Burdail, Elwood
 Kirley, Richard S.
 Sands, Purdy G.
 POTSDAM—*Aldrich, Wm. S. (Consulting)
 Cruikshank, Barton (M. E.) (Pres. Clarkson School Tech.)
 Doble, Robert McF. (Consulting M. E.)
 Robinsou, Edward (Prof. Mech'l Eng'r'r, Clarkson School Tech.)
 POUGHKEEPSIE—Brevort, B. H. (Consulting, & Surveyor) 54 Market
 Hart, Fred'k (M. E.), Builds & Develops all Kinds of Inventions, Lansing ave
 Rueff & Sons (M. E.), 52 Market
 RICHMOND HILL—(See New York City, Borough of Queens)
 RIVERHEAD—*Edwards, J. Irving
 ROCHESTER—Ashley Machine Works (M. E.), 714 University av
 Brown, Legrand (Consulting), 16 State

Cochrane, R. B. (M. E.), 15 St. James
 *Duerner, Hy. L., 925 St. Paul
 Fisher, E. A. (City Hall)
 Fitch, Henry L., Livingston bldg
 Gaskin, R. E. & E. W., Elwood bldg
 Grant, A. J., Elwood bldg
 Gray, Wm. C., Livingston bldg
 Jones, H., 53 Madison
 La Casse, A. H. (M. E.), E. & B. bldg
 Lysle, W. S. (Consulting Mining & M. E.),
 29 Elizabeth
 Morse, Wm. F. (M. E.), 191 State
 Peck, Cassius C. (Consulting M. E.), E. &
 B. bldg
 Rafter, Geo. W. (Consulting, Water Works,
 Sewerage & Sewage Disposal), 195 Ken-
 Ryan, John C., 120 Arcade wood av
 Storey, W. R., E. & B. bldg
 Titus, A. B. (Surveyor), 16 State
 Trebert, H. L. F. (M. E.), 407 St. Paul
ROME—Knight & Hopkins (Consulting)
 Schillner, Geo. C. (City), 106 Canal
 Stanwix Eng. Co., The
SAG HARBOR—Hunt, E. Z.
SANDY HILL—McCarty, Jas.
 Monty, J. P.
SARATOGA SPRINGS—Mott, J. S. & Son
 (City)
SCHENECTADY—FitzGerald, J. L., 175 Jay
 Gifford, Wm., 785 State
 Hook, Gulian S., 705 Union
 Jackson, J. M., 32 Wash'n av
 Landreth, Olin E. (Prof. of Eng'r'g, Union
 McDonald, A. J., 437 State Col.)
 Mills, N. C., 227 Liberty
 *Riddell, Jno. (Mech'l Supt., Gen. Elec. Co.)
 Sebring, Lewis B., 116 1-2 Wall
 Smith, Dewitt C., 118½ Wall
 Trumbull, Chas. W., 703 State
STAPLETON—(See New York City, Borough of
 Richmond)
SYRACUSE—*Bates, Ed. P. (Mfr. Htg. Appts.),
 228 W. Water
 Bauder, B. F., 311 Noxon
 Beach, H. T. (Consulting), City Hall
 *Blauvelt, W. H. (Gen'l Mgr., Semet Solvay
 Co.)
 *Bump, Burton Nelson (Eng'r of Tests, Solvay
 Process Co.)
 Clarke, T. W., City Hall
 Griffin, Rhessa, 307 E. Genesee
 Hawkinson, F. W., 108 Harrison
 Higgins, Geo. E., 84 Wieting blk
 Hodgkins, H. C. (C. E.), Kirk bldg
 Lipe, C. E. (Estate of) (M. E.), 203 S
 Geddes
 Mather, Thos. H. (Consulting), O. C. S.
 Bank bldg
 Morrison & Farrington (& Surveyors), Dil-
 laye Mem. bldg
 Newkirk, W. H., 807 Montgomery
 Schnauber, F. J., City Hall
 Strong, D. C., 211 E Jeffn
 Strong, E. S., City Hall
 *Trump, Edward N. (Gen'l Mgr. & Chief
 Engineer, Solvay Process Co.)
 Woodward, Wm. J., 307 E. Genesee
TARRYTOWN—Carpenter, Ward
 Parsons, F. W. (M. E.) (Supt., Rand Drill
 Co.)
 Merritt, D. S.
 Wulf, C. E.
TROY—Baltimore, Garnett D., 162 8th
 *Burden, Jas. A. (Pres., Burden Iron Co.),
 Cary & Roemer, Frear bldg 6th Ward
 Colby, John D., 13½ State
 Edwards, F., 369 Congress
 Flynn, Jno., Jr., 87 3d
 *Goldthwaite, Abel G. (Supt. Construction,
 W. H. Tolhurst & Son), Fulton c 6th av
 Goodfellow, Irving, 251 B'way
 Halligan, Henry H., 201 Ferry
 *Hammett, Hiram G. (Mgr., M. C. Ham-
 met), 476 8th
 Hoover, John S., Francis av nr Orchard
 Mason, Wm. P. (Water Analysis) Polytech-
 nic Institute
 Rensselaer Polytechnic Institute.
 *Ricketts, Palmer C. (Dir. & Prof. Mechs.,
 Rens. Poly. Inst.)
TUPPER LAKE—Langlotz, Robert (M. E.)
UTICA—*Babcock, Stephen E. (Consulting C.
 E., M. E. & Hydraulic), Mann bldg
 *Camp, Geo. E. (Supt., Standard Harrow
 Co.)
 Bartow, Pierrepont (& M. E.), 207 Oneida
 Baxter, Francis K., 46 Arcade
 Baxter, John R. (Surveyor), Utica City
 National Bank bldg
 Capron, Jay, 76 Oneida
 Frisbie, Byron, 38 Dudley av
 Golden, Harry E., Mann bldg
 Horton, Robert E. (Consulting, Water
 Works, etc.), 75 Arcade
 *Illingworth, Harry R. (Eng'r, Mohawk Val-
 Johnson, C. L., 238 Mary ley Mills)

Kirkley, Wm. W. (M. E.), 147 3d av
 Lewis, Clifford, Jr., Second National Bank
 Mott & Kemper, 20 Arcade bldg
 Robertaccio, Lenardo, 750 Bleecker
 Schultze, Paul (City Engineer), City Hall
 Seymour, Horatio, Utica City National Bank
 bldg
 Sherman, R. W., Utica City National Bank
 Stone, Wm. G. & Son, Mann bldg bldg
 Sweet, H. B. (Consulting), 17 Clarendon
 Taylor, Charles S. (& Surveyor) 62 Arcade
WALTON—Randall, Theo. D.
WARSAW—McClure, Jas. O.
WATERTOWN—Carter, D. F., 10 Massey
 Cleveland, Milo L., 11 Mill
 Baton & Brownell, Smith bldg
 Ferris, E. G., 12 Orchard
 Hinds, Frank A., 26 Flower bldg
 McComb, C. O. (City Engineer)
 Semper, C. H., Flower bldg
 Semper, Wm. J., Flower bldg
WATERVLIET—Sturgess Governor Engineer-
 ing Co. (M. E.)
 Thomas, Jeffrey P., 615 6th
WAVERLY—Walker, Fredk I.
WELLSVILLE—Sage, Chas. E. (Consulting M.
 E.)
WEST NEW BRIGHTON—(See New York City,
 Borough of Richmond)
WEST WINFIELD—Gibson, A. T. (M. E.)
WHITE PLAINS—Byrne & Darling
 Carpenter, J. Henry & Co.
 Farley, J. M. (Town Engineer)
WILLIAMS BRIDGE—McGrory, Daniel J.
 Parsons, Fred. H.
YONKERS—Baldwin, Wm. Henry, 45 Warbur-
 ton av
 Jordan, Edward L., 456 Van Cortlandt Park
 O'Connor, Jno. F. K., 618 N B'way av
 *Odell, Wm. H., 5 Van Cortlandt Park av
 Rayner, George & Sons, 15 Warburton av
 Skinner & Connelly (M. E.), 3 Nepperham
 Van Suetendael, A. J., 15 N B'way
 Von Leliva, Chas. E., 45 Warburton av

NORTH CAROLINA.

ASHEVILLE—Brown, R.
 Lee, B. M.
 Jenks, C. N. (Mining)
 Morrison, Wm. S.
 Roebling, John A.
CHAPEL HILL—Pratt, Jos. Hyde (Mining)
CHARLOTTE—Gilchrist, Peter S. (Chemical)
 Hubbell, C. G.
 Morgan, C. C., Engineering Co. (Mining, etc.)
 Tompkins, D. A. Co.
GREENSBORO—Bandy, J. M. (City)
NEWBERN—Brown, Henry A.
 Cheuey, Alfred, Jr.
RALEIGH—Blake, W. Z. (City)
 Shaffer, A. W.
WILMINGTON—Jones, Jas. P.
WILSON—Miller & Tyson (M. E.)
WINSTON SALEM—Ludlow, J. L. (Consulting)

NORTH DAKOTA.

BISMARCK—Harrold, Jno.
CANDO—Judd, E. T.
CARRINGTON—Wiley, Geo.
COOPERSTOWN—Ueland, M. A.
DICKINSON—Brookings, R. S.
 Russell, W. S.
FARGO—Crabbe, S. F.
GRAFTON—Mott, H. H.
GRAND FORKS—*Crouch, Calvin H.
 Lawson, T. L.
 Russell, W. S. (City), St. John's blk
 Smith, J. J.
HILLSBORO—Svalestuen, Knute
JAMESTOWN—Conn, Geo.
LANGDON—Darling, A. B.
MANDAN—Harmon, H. E.
MAYVILLE—Bramble, G. E.
MINOT—Jensen, L. P.
VALLEY CITY—Smith, T. M.
WAHPETON—Burbank, J. I.

OHIO.

AKRON—Gehres, J. A. (& County Surveyor),
 Court House sq
 Kirn, O. C. (M. E.), 237 Carroll
 Paul Bros. (& Surveyors), 230 S Main
 Payne, John W. (City)
 *Pitkin, Stephen H., 642 W Market
 Swigart, S. G., 214 Silver
WELLMAN-SEEVER-MORGAN CO.
 (Consulting & Contracting M. E.) See
 adv. index. end of book)
ALLIANCE—Gyger, Geo. R.
 Pfouts, O. W. (City)
 Urig, Edw. F.
ASHLAND—Berry, Elvin L. (County Surveyor)

ASHTABULA—Amsden, Lewis
 Mann, Harvey E. (City)
 Sill, J. S.
 Strong, Abner D.
ATHENS—Hibbard, S. H. (County Surveyor)
BATAVIA—Rapp, John T. (County Surveyor)
BEDFORD—Bedford Engineering Co. (Consult-
 ing & Contracting, Bldgs., Bridges,
 Cranes, etc.) Bedford, O.
BELLAIRE—A. F. Norton (C. E., Mining &
 M. E.)
BELLEFONTAINE—Buchanan, S. A.
 Cushing, C. C. (C. E., M. E. & Mining)
 Grim & Fisher
 Richey, Chas. M. (County Surveyor)
 Van Auker, Jas. M. (City)
 Wonders, Jas. C. (County Surveyor)
BOWLING GREEN—Gallier, John
BUYRUS—Bryant, C. P. (County Surveyor)
 Guard, Geo. (M. E.)
 Guiss, Chas. (City)
 *Holmes, W. C. (Gen'l Supt., New York
 Blower Co.)
CALDWELL—Brown, S. G. (County Surveyor)
 Danford, E. S. (County Surveyor)
CADIZ—Green, Benj. J. (County Surveyor)
CAMBRIDGE—Hogue, O. M. (City)
 Webster, W. V. (County)
 Woodburn, Albert (County Surveyor)
CANTON—Canton Engineering Co. (M. E.)
 Chapin & Knowles
 Crossley & Waterhouse
 Holl, Jno. H., 130 E. Tusc.
 Holl, O. W., 2234 Tuscarawas
 Hoover, J. S., Court House
 Kauffman, W. J., Central Sav. B'k bldg
 Myers, F. E., City bldg
 Sarver, W. E. (City)
 Sickafoos, G. L., Court House
 Weber, Phil. H., 1220 Worley av
CARROLLTON—Shaw, Eli D. (County Surveyor)
CELINA—Lutz, Martin (County Surveyor)
CHARDON—Merkel, E. A. (County Surveyor)
CHILLICOTHE—Fullerton, Union blk
 Redd, Henry M. (City)
 Walker, B. F. (County Surveyor)
 Weber, P. H.
CINCINNATI—Autenreih, Hy. (City), B. of
 P. S.
 Baker, Geo. D. (City), B. of P. S.
 *Baldwin, Bert L. & Co. (Consulting),
 Perin bldg, 5th & Race
 Baldwin, Ward ("Civil," Consulting), 66
 Mitchell blk
 Bauer-Shepard Eng. Co. (Consulting), 5th
 & Main
 *Bechtel, John A. Perin bldg
 Benzenberg, Geo. H., City Hall
 Betts, F. B., 131 E University av
 Blackwell, Chas. (Consulting), Observatory
 av & Herschell av
 Boeh, Wm. H. (Chief Engr., City Water
 Works), City Hall
 Bowman, Richard (City), B. of P. S.
 Brackett Bridge Co. (Consulting), Atlas B'k
 bldg
 Bradford Machine Tool Co. (M. E.), 657
 Evans
 Breen, J. E. (Chief Engineer, B. of P. S.),
 City Hall
 Burke, M. D., 4th & Walnut
 Cincinnati Eng. & Investment Co. (Consult-
 ing), Traction bldg
 Cloud, L. G. (Mining), Traction bldg
 Conway, H. L. (Asst. Engr.), B. of P. S.
 Cowen, Clinton (County Surveyor), Court
 House
 Dannenbower, C. N., 4th & Plum (City)
 Diekmeier, Geo. W., 209 15th
 Dodge Mfg. Co. (Consulting & M. E.), 128
 W 3d
 Duhme, Jno. H. (M. E.), 682 Webb
 Duwellius, A. L. (M. E.) (Sec'y & Eng'r,
 Electric Safety Brake Co.), 206 E 5th
 Earnshaw & Punshon, 5th c Race
 Engle, Robt. L., 1530 Lincoln av
 Fahnestock, C. M. (M. E.), 608 Commercial-
 Tribune bldg
 Gast, E. A., 524 Considine av
 Gregg, A. F. (M. E.), 807 Elm
 Harper, J. M., 417 Sycamore
 Harrison, Benj. W. (County Surveyor),
 Court & Main
 Hauss, D. J. (Consulting), Mitchell bldg
 Heyl Bros., c Linn & Hopkins
 Hill, Jno. W., 36 Glenn bldg
 Hobart, J. C. (M. E.), 610 Baymiller
 Holzhalt, Edw. J. (Ass't Engineer, B. of
 P. S.)
 Hornung, Geo. (& M. E.), Johnston bldg
 Hosbrook, D. S. & Son, Pickering bldg
 Hosbrook & Ferris, Carlisle bldg
 Huge, E. W., 9th c Main
 Illmer & Co. (Consulting M. E., Gas Engine
 Experts), 4th Nat'l Bank bldg
 Jonte & Baumer, Court c Main
 Kaiser, O. B. (M. E. & Patent Attorney),
 Carlisle bldg

Karweise, G. A. (Consulting), 115 E 5th
 Kearney, John & Co. (& M. E.), 328 New
 Kingsley, M. W., 41 Central av
 Knorr, H. E. (Ass't County Engineer),
 Court House
 Krug, Frank S. (Co. Engineer), Court House
 Layman, E. F. (& M. E.), Euclid av, Win-
 ton pl
 Lemon, J. C. (Consulting M. E.), Ohio Mec.
 Ins.
 Locke, Jos. M. (Mining & Consulting), 40 E
 3d
 Lomb, G. W. C. (Consulting), 113 Garfield
 Mathewson, L. W., 4222 Chambers
 pl
 *Maxwell, Jas. R. (Consulting & M. E.),
 Pickering bldg
 Miles, C. W. (M. E.), 28 Wiggins blk
 Morris, Frank E. (City), B. of P. S.
 Paquette, C. A. (C. O. O. & St. L.)
 Rasinsky, C. E. (City), B. of P. S.
 Rldgway, Thos. A., Sr., 424 Dayton
 Rinman, G. O. (M. E.), 1008 Neave bldg
 Rogers, Chas. L. (Mining), 917 Rogers pl
 Rugg, J. K. & Co. (Consulting & Contract-
 ing M. E.), Commercial-Tribune bldg
 Runck, Edw. G. (City), B. of P. S.
 Schreiber, The L. & Sons Co. (M. E.), 413
 E 8th
 *Smith, Thomas G., Jr. (Consulting), Car-
 lisle bldg
 Spengel, C. (Draughtsman & Patent Attor-
 ney), Atlas Bank bldg
 Stanley, H. J. City Hall
 Stewart, J. A., Traction bldg
 Sticknath & Lakeman, Erie & Michigan avs
 Sullivan, Walter E. (City Water Works),
 B. of P. S., 907 Commercial Tribune bldg
 Sundmaker, J. H. (Asst County Engineer),
 Court House
 Thalheimer, W. C. (Consulting), 31 Hulbert
 blk
 Thompson, Jos. P. (City), B. of P. S.
 Tozzer, Henry, 4211 Turrill
 Walker, Frank C. (City), B. of P. S.
 Wulfkoetter, E. W., Jr. B. of P. S.
 CIRCLEVILLE—Sweetman, J. Howard (County
 Surveyor & City Engineer)
 CLEVELAND—Ahlan, C. E. F. (Consulting &
 M. E.), Williamson bldg
 Allen, Albert M. (Consulting & M. E.),
 Schofield bldg
 American Bridge Co. (Contracting), Rocke-
 feller bldg
 American Engineering & Reduction Co.
 (Mining), Caxton bldg
 Amstutz, Noah S. (M. E.), 27 Hillsdale av
 Atwater, Albert A., Citizens bldg
 *Bartol, Geo. (Gen'l Mgr., Otis Steel Co.),
 Lake & Lawrence
 Bates, E. P. Engineering Co. (Contracting,
 Consulting & M. E.), 204 Superior
 Beardsley, Joseph C., Schofield bldg
 *Benjamin, Chas. H. (Prof., Case School of
 Applied Science), 314 City Hall
 Bill, Herbert W., 87 Public sq
 Brown, J. F., Cuyahoga bldg
 Burgess, Clarence H., 241 Euclid av
 Carter Wm. J. (City), City Hall
 Claflin, F. N. Engineering Co., 146 Taylor
 Cleveland Eng. Co. (& M. E.), New Eng-
 land bldg
 Copeland, Alden B., Cuyahoga bldg
 Cowing Engineering Co. (Contracting & M.
 E.), Citizens bldg
 Crowell & Peck (Mining), Williamson bldg
 Cunley, Geo. Park bldg
 Davis, John B. & Son, 242 The Arcade
 Donnelly, Wm. E. (M. E. & Expert in
 Patent Cases), Cuyahoga bldg
 Dornbrier, Jas. G. (M. E.), 3148 Superior
 Dravo, Doyle & Co. (M. E.), New England
 bldg
 Eibler, B. F. (M. E. & Expert in Patent
 Cases), Society for Savings bldg
 Emmerton, F. A. (Metallurgist, Chemist,
 Assayer), Bratenahl bldg
 Evers, Wm. H. Eng. Co. (City & County Sur-
 veyors)
 Faragher Engineering Co. (Contracting & M.
 E.), Rose bldg
 Frazier, Fox & Spencer (Consulting, Bridges,
 Power & Industrial Plants, etc.), 718
 Rockefeller
 Fuel Engineering Co. (M. E.), Williamson
 bldg
 Fuller, Wm. (M. E.) (Gen'l Mgr.), 104 St.
 Clair, N W
 *Garrett-Cromwell Engineering Co. (Con-
 sulting, Steel Works, Metallurgical, Roll-
 ing Mill Experts & Furnaces), New Eng-
 land bldg
 Garrett, Geo. M., Citizens bldg
 General Engineering Co. (Mechanical), Elec-
 tric bldg
 Giessen, Chas. H. (& Surveyor), Blackstone
 bldg

*Gobeille, Jos. Leon (Gobeille Pattern Co.),
 Leonard & Winter
 Greene, Frank C. (& Mining), Citizens bldg
 Hanlou, W. B. (C. E. & Mining), Electric
 bldg
 Hecker, Ralph (& Surveyor), Electric bldg
 Helsel, Chas. T. (Mining), 28 Michigan
 Henry & Fording Engineering Co. (M. E.,
 Blast Furnace & Rolling Mill Machinery &
 Complete Power Plants), Rose bldg
 *Hermann, Ludwig (Consulting), 7406 Cedar
 av
 Holeman, L. A. (Consulting M. E.), Scho-
 field bldg
 Holt Engineering Co. (Consulting & M. E.),
 New England bldg
 Industrial Engineering Co. (M. E.), The
 Arcade
 Interstate Eng. Co. (Contracting & M. E.),
 Williamson bldg
 Jandus, Wm. (& M. E.), Rose bldg
 Jones, H. Whitford (M. E.), Citizens bldg
 Jopling, R. F. (Mining), Cuyahoga bldg
 Joyce, James A. (M. E.), Citizens bldg
 *Kaltenbach & Griess (Consulting), Wil-
 lamson bldg
 King Bridge Co. (& M. E.), St. Clair, head
 of Ruskin
 Kingsley, M. W. (Consulting), Rose bldg
 Krause, F. L. (Surveyor), 228 Mueller av
 Krause, F. B. (& Surveyor), Society for
 Saving bldg
 Lea, Andrew B. (County Surveyor)
 Lewis, Chas. B. (M. E.), Schofield bldg
 Lewis, Chas. F., 1021 Prospect
 Lindmueller, Edward (M. E.), Williamson
 bldg
 *McKechie, Robert A. (Eng'r, Variety Iron
 Works), Hamilton & Case av
 Macbeth Iron Co. (Contracting), W Center
 & Winslow
 Merchant, Chas. C., Marcy av
 *Miller, Walter (Consulting), Perry-Payne
 bldg
 Moore & Matchett (M. E.), Williamson bldg
 Morse, Allen C., Rose bldg
 Mullen, Claude F., Rose bldg
 OSBORN ENGINEERING CO. (Con-
 sulting C. E. & M. E. & Specialists in
 Designing of Bridges, Machinery, Power
 Transmission & Mfg. Plants of All
 Kinds), Osborn bldg. (See adv. index,
 end of book)
 Pease, F. A. Eng. Co., Williamson bldg
 Paul, Hosea, Rose bldg
 Pierson, I. K., Cuyahoga bldg
 Pratt, C. W., Lenox bldg
 Rattle, Wm. J. & Son (Mining), Commer-
 cial Bank bldg
 Reid, Marcellus (M. E.) ("Machinery Equip-
 ment"), Citizens bldg
 Rice, Walter P. Engineering Co. (Consult-
 ing Civil), Soc. for Savings bldg
 *Rider, Geo. S. & Co. (Consulting), Cen-
 tury bldg
 Rifenberick, Robert B. ("Consulting,"
 Electric Rys.), Williamson bldg
 Ritchie & Ruple, Cham. of Com. bldg
 Roberts & Abbott, Inc. (Consulting C. E. &
 M. E. Electric Railways, Buildings, etc.),
 Schofield bldg
 Rogers, William S., Schofield bldg
 Ross, Jas. T., Electric bldg
 Ruggles, Ashbel P., 614 Cuyahoga bldg
 Sears, Richard H. (M. E.), 100 Spangler av
 Spencer, Frazier & Fox (Consulting & M.
 E.), Rockefeller bldg
 Sprackling Eng. Co., Citizens' bldg
 Standard Engineering Co. (Consulting M.
 E. & Electric Railway, Power & Lighting
 Plants, etc.), Garfield bldg
 Stanton, Le Roy (Consulting), Electric bldg
 Stapf, O. K. & Co. (Surveyors), Rose bldg
 Strong, Chas. H. & Son (Contracting), Cuya-
 hoga bldg
 Stroud, Edwin G. (M. E.), Rose bldg
 Tuttle, Jno. V. (& Surveyor), 54 Penrose av.
 Varney, Joshua D., 53 Public sq E. C.
 Wagar, Robert L. J., American Trust bldg
 Warner, Monroe, 739 Hough av
 WELLMAN-SEEVER-MORGAN CO.
 (Consulting & Contracting M. E.), (See
 adv. index, end of book)
 Wight, Elmer B., Rose bldg
 Wood & Courtney, Amer. Trust bldg
 COLLINWOOD—*Smith, Harry E.
 COLUMBUS—Bailey, Fred W. C. (Consulting),
 Wyandotte bldg
 Bradbury, E. G. (Waterworks Sewage &
 Sewage Disposal), 85 N High
 Bowen, Benj. F. (Surveyor), 226 E State
 Braun, Walter (County Surveyor)
 Case Mfg. Co. (M. E.), Curtis av
 Courtwright, John, 347 S High
 Fisher, Frank J., 23 E State
 Franklin Eng. Co. (Consulting)
 Gates, H. M., 14 Deshler blk

Griggs, Julian (City), City Hall
 Haseltine, R. N. (Consulting M. E.), Board
 of Trade
 *Hitchcock, Embury A. (Asso. Prof. Expl.
 Eng'r, Ohio State Univ.), 308 W 8th av
 Hopkins, M. S. (Mechanical), Wyandotte
 Jennings, F. W., 155½ N High
 bldg
 Kemmler, E. A. (Ass't City), 85 Deshler av
 Maetzel, Henry (City)
 *Magruder, Wm. T. (Prof. Mech'l Eng'r, g,
 Ohio State Univ.), 191 King av
 Marble, Reuben R., 23 E State
 National Engineering Co.
 Pugh, S. D., 249 E Spring
 Ray, F. A., 6 Deshler blk
 *Robinson, S. W. (Pres., Robinson & Tilton
 Mfg. Co.), 515 W 1st av
 Scheibel, Wm. O. (Civil) 80½ High
 Shaw, H. J., Outlook bldg
 Taft, J. A. & Co. (M. E.), Hayden bldg
 COSHOCTON—Bock, George (County Surveyor)
 Fisher, A. M. (City)
 CONNEAUT—Linniger, T. F. (City)
 DAYTON—Baird, Edwin C., Court House
 (County Surveyor)
 Cellarius, Fred J., 8 City bldg
 Duplaine, W. E. & Co. (Mining), Reibold
 bldg
 Fox, Albert S. (Surveyor), 500 N B'way
 Kemlein, F. Otto. (Deputy County Survey-
 or)
 Kline, Robt. E. (City), Callahan Bk. bldg
 McDargh, Harry J. (Consulting), Conover
 bldg
 *Schneble, R. G. (M. E.), 24 Harshman
 Sebold, R. P., c 3d & Jefferson
 Sharts, Stanley R. (Deputy County Sur-
 veyor)
 Stettelmann, Gustav R., 37 W. Wash'n
 Talbott, H. E. & Co., Reibold bldg
 Turner, Frank M. (City), 3 City bldg
 Waltz, Jos. E., 524 E Hickory
 DEFIAANCE—Blue, Frank G. (County Surveyor)
 Steinberger, M. W. (City)
 Toberen, Henry (City)
 DELAWARE—Dike, J. S. (City)
 Mendenhall, E. S. (County Surveyor)
 EAST LIVERPOOL—George, J. A. (City)
 Kelly, Chas. (City)
 Scott, A. W.
 EATON—Roberts, F. C. (County Surveyor)
 ELYRIA—Fauver, Lester A. (County Surveyor)
 Jackson, E. S.
 Theobald, C. M. (City)
 FINDLAY—Boulton, Elmer C. (County Surveyor)
 Glathart, Harry A. (County Surveyor)
 Riegle, Jno. W. S. (City)
 FREMONT—Dickenson, L. A.
 Hochenedel, Chas. A. (County Surveyor)
 Hughs, Henry
 Leshar, Geo. (City)
 Rawson, J. L.
 GALION—Atkinson, J. W. (City)
 GALLIPOLIS—Leonard, M. F. (County Survey-
 or)
 White, W. R. (City)
 GENEVA—Hewitt, B. F. (City)
 GEORGETOWN—Wolfe, L. H. (County Surv.)
 GREENFIELD—Scharanberger, J. H. (M. E.)
 GREENVILLE—Beers, John
 Lucas, C. O.
 Marker, James R. (County Surveyor)
 Slade, Charles (City)
 HAMILTON—Dillon, L. A. (County & City Sur-
 veyor)
 See, James W. (Consulting M. E.)
 Weaver, John C., Court House
 HARTWELL—Innes, Harry C.
 MacGregor, J. Grant
 Maxwell, Lewis C.
 Wiltsee, Wm. P.

When writing to firms
 whose names appear
 in this book please
 mention

HENDRICKS'
COMMERCIAL
REGISTER.

HILLSBORO—Fenton, B. W.
Hunter, H. W. (County Surveyor)
Vance, Hugh S. (County Surveyor)

IRONTON—Brown, J. R. C. (City)
Edgerton, James T. (County Surveyor)
Hatcher, W. B. G.
Leet, Fred G.

JACKSON—Turner, John W. (County Surveyor)

JEFFERSON—Matson, J. S. (County Surveyor)

KENTON—Gilmore, Joseph W. (County Surveyor)
Myers, Willis E. (City)
Strong, Paul (City)
Wilsou, O. P.

LANCASTER—Spangler, Thomas M. (County Surveyor)

LEBANON—Kemper, W. R. (City)

LIMA—Brice, John K. (City)
Craig, Chas. E. (County Surveyor)
Cronley, John C. (County Surveyor), Court House
Gamble, Robt. H., 724 N. High
Prevost, L. F.
Taylor, Geo. (Surveyor), 742 W North

LISBON—French, D. M. (County Surveyor)
Kelley, J. C. (County Surveyor)

LOGAN—Behout, James (County Surveyor)
Davis, James (County Surveyor)

LONDON—McCafferty, H. V. (County Surveyor)

LORAIN—Bunnell, S. H. (Mgr. Coch-Lorain Steel Co.)
Fauver, L. A.
Nichols, J. B. (City)
*Suppes, Max M. (Vice Pres. & Gen'l Mgr., Lorain)

McARTHUR—Walker, Simou R. (County Surveyor)

McCONNELSVILLE—Smith, Frank B.

MANSFIELD—Keith, Lorin A. (City)
Laird, Jacob
Potts, James C. (County Surveyor)

MARIETTA—Cole, Arthur (City)
Gates, E. F.
Mason, W. P.

MARION—Ault, Edward S. (County Surveyor)
Craig, Richd.
Dwyer, Geo. (City)
Sloan & Ault, Busby blk

MARTIN'S FERRY—Lash, Carl P. (City)
Rowland, Geo. (City)

MARYSVILLE—Graham, Alvi (County Surveyor)
Harvey, L. Z.
Kennedy, J. C. (City)

MASSILLON—Borton, D. C., Warwick blk
Howald, Harold (City)
Russell Engine Co. (M. E.)

MEDINA—Sheldon, A. D. (County Surveyor)

MIDDLETOWN—Doty, Frank (City)
Monjean, C. (Consulting, Water Supply, Mining Oil, Gas Wells, etc.)

MILLERSBURG—Rohiuson, H. H. (County Surveyor)

MOUNT GILEAD—Buck, Thad. E. (County Surveyor)
Underwood, David (County Surveyor)

MOUNT VERNON—Ashcroft, O. L. (County Surveyor)
Cassil, Alex. (City)
Cureton, Thomas (City)
Pratt, W. H. (County)

NAPOLÉON—Dielman, Frank E. (County Surveyor)
Kolbe, Henry
Wells, Charles (City)

NEWARK—Brown, N. H. (City)
Gillpatrick, J. L. (County Surveyor)

NEW LEXINGTON—Baillie, John (County Surveyor)

NEW PHILADELPHIA—Booth, J. H. (City)
Murray, Paul R. (County Surveyor)

NILES—Mackey, C. L., Benedict blk
Wilsou, Wm. (City)

NORWALK—Laylin, John (County & City Surveyor)

NORWOOD—Jacob, Hy.
Stewart, Jas. A. (City)

OTTAWA—Cartwright, J. S. (City)
Maidlow, J. T. (County Surveyor)
Talhot, O. C. (County Surveyor)

PAINESVILLE—Cumings, H. P. (City)
Ward, John C. (County Surveyor)

PAULDING—Geyer Bros.
Straw, C. L. (County Surveyor)

PIQUA—Whitlock, Harry E. (City Engr.)

PLEASANT RIDGE—Lilly, Jas. A.

POMEROY—Johnson, S. A. (County Surveyor)
Watkins, M. H.

PORT CLINTON—Snhrbier, F. H. (County Surveyor)

PORTSMOUTH—Bratt, B. C. (City)
Bryan, R. A. (City)
Harper, Samuel G. (County Surveyor)
*York, L. D.

RAVENNA—Cole, Jedidah (County Surveyor)
Lewis, Henry (County Surveyor)

ST. CLAIRSVILLE—Bond, John A. (County Surveyor)

SALEM—French, Morris (City)
Strawn, J. B.
*Weeks, Chas. H., P. O. Box 175

SANDUSKY—Chase, Rollo D. (County Surveyor)
Judson, Albert W., Court House
Miller, J. W., City bldg
Newberry, S. B.
Schultz, Augustus Charles (City)

SHELBY—Weddell, J. E.

SIDNEY—Blake, W. R. (City)
Counts, Charles (County Surveyor)
Pampel, D. W.

SPRINGFIELD—Bayley, W. D. (M. E.), 221 S Fountain av
Bird, S. Van (County Surveyor), Court House
Hoppes, Jno. J. (City)
Olds, E. W., 33 S Fountain av
Seever, I. N., 25½ E Main
Sharon, Wm., 278 N Limestone
Sieverling, Wm. H. (City)

STEOBENVILLE—Cox, James L. (County Surveyor)
Curfman, S. B. (City)
Flanagan, Chas. E. (City)
Huston, Sannel, Court House
White, A. G., McConville bldg

TIFFIN—Peters, Chas. J. (County & City Surveyor)

TOLEDO—Barber, M. T., Gardner bldg
Bissell, F. Co. (Consulting), 226 Huron
Brown, W. F., 864 Oakwood av
Buell, C. W., 2052 N 14th
Champe, Geo. G., 715 The Nasby
Clark, Wm. G., The Spitzer
Consaul, F. L. (City), The Valentine
Cook, Chas. M., Law bldg

DONOVAN WIRE & IRON CO.
(Specialists in Designing of Buildings).
(See adv. index, end of book)

Eddy, Chas. M. (Consulting & M. E.), 819
Gould, W. H., Law bldg
Harris, Roswell
Hartman, Noble W. (M. E.), 843 Willow av
Hitchcock, Frederick C., 1027 Grand
Hoffman, Joseph (County Surveyor)
Kaney, J. G., 225 19th
Marston, J. B. (& Surveyor), Law bldg
Nicks, J. E. T. (Consulting), The Nasby
Oakley, F. T., The Spitzer
Oliphant, Jno. C. (Ass't Engineer), B. P. S.
Pulford & Gorton, 237 Michigan
Rhines, George V., Gardner bldg
Riggs & Sherman Co. (Consulting), The Nasby

Smith, A. H. (& M. E.), The Nasby
Stratton, J. L., 115 Cham. of Com.
Tonson, Geo. W. (City Engineer), 2056 Warren
Uhl, J. B., 2139 Lawrence av
Van Tuyl, Frank F. (M. E.), The Spitzer
Walter & Young (M. E.), The Nasby
Walton, D. C. (M. E.), The Nasby
Wanheq, Joseph J., 1080 Dorr
Wilhelm, H. W., 716 Jefferson av
Williams, Malcolm E., 3205 Glenwood av

TROY—Dowler, J. W. (County)
Walker, H. J. (City & County Surveyor)

URBANA—Pratt, Carey S. (County & City Surveyor)
VAN WERT—Beatty, L. R. (City)
Giffin, Isaac N. (County Surveyor)
Malick, I. H.

WAPAKONETA—Fisher, Chas. E.
Runkle, Frank (County Surveyor)

WARREN—Dickey, Edw. P.
Milligan, E. M. (City)
White, Homer C.

WASHINGTON—C. H.—Kennedy, Frank M.
Perdue, T. K. (City) (County Surveyor)

WAUSEON—Hettinger, John E. (County Surveyor)

WAVERLY—Overman, Henry W.
Reno, Howell

WELLSTON—Williams, Eris (City)
WELLSTON—George, John A. (City)

WEST UNION—Smart, F. M. (County Surveyor)

WILMINGTON—Brown, J. A. (County Surveyor)

WOODSFIELD—Dougherty, T. A. (County Surveyor)

WOOSTER—Eberhart, Julius (City)
XENIA—Garfield, Lyman M. (M. E.) (Supt.)
Miami Power Co.
McKay, G. A. (County & City Surveyor)
Riddle, Levi
Riddle, Warren

YOUNGSTOWN—Haseltine & Montgomery
(Mining, etc.), 1818 Wilson av
Lillie, Francis M. (City)
Mackey, C. L., 122 Wick av
Mackey, James, u s McGuffey
Montgomery, Geo. M. (County & Surveyor)
Smith, E. S., 49 Central sq
Tod, Geo., Jr., 49 Central sq
Wilson, Wm., 132 Wick av
Wise, D. M., 223 W Wood

ZANESVILLE—Collins, R. G., Jr., 70 N 4th
Dunn, Wm. (County), Court House
Martin, C. V., Opera blk
Scarvell, L., Opera bldg
Smith, E. H. (City)
Walker, Jas. M., B. & O. R. R.
West, Leander (County Surveyor)

OREGON.

ALBANY—Barr, W. E.

ASHLAND—Corbett, J. L.
Evans, C. W. (Mining)

ASTORIA—Ashbry, R. C. F.
Tee, A. S.
Raymond, N. D., 3d e Genevieve

BAKER CITY—Arthur E. McEwen (Consulting)
Esselstyn, J. N. (Consulting & Mining)
Nelson, C. DeWitt
Pearson, H. G.
Thompson, Charles H.
Watters, D. M. (Mining & Metallurgist)
Withey, Harry J.

CORVALLIS—Waggoner, G. A.

DALLAS—Gronnd, Luther

EUGENE—Collier, Charles M.

GRANTS PASS—Mangum, C. L.
Perkins, H. C.
Wright, W. P. & Son

HEPPNER—McGee, Jas. J. (Surveyor)

HILLSBORO—Wilkes Bros.

HOOD RIVER—Henderson, Jno. Leland (Surveyor)

LA GRANDE—Curtis, Arthur

McMINNVILLE—Branson, O. E.
Maloney, H. S. (City)

MARSHFIELD—Cathcart, S. B.

MEDFORD—Howard, J. S.
Jones, G. T.

NEWBERG—Britt, N. E.

OREGON CITY—Johnson, H. H. (Surveyor)
Meldrum, Jno. W. (Surveyor)
Rands, Ernest (City)

PENDLETON—Kimball, J. W.

PORTLAND—Anthony, A. W. (Mining), 832 Raleigh
Backus, W. H. & Son, Sherlock bldg
Bailey, H. W., 127½ 1st
Ballin, F. A. & Co. (Consulting & Contracting M. E.), 43 2d
Barr, W. B., 511 Mississippi av
Barstow & Chambers (Consulting), Failing bldg
Batchelder, J. F. (Mining), 54 1st
Beeson, G. E. (Mining), Macleay bldg
Bell, W. H., 1390 E Taylor
Bell & Wildman (M. E.), 29 1st N
Bonser, R. C., Commercial bldg
Chandler, H. L., 267 E. 35th
Chase, W. B., 667 Worcester blk
Contracting Engineering Co., Fenton bldg
Cramer, G. F., 108 12th
Cunningham, J. H., Cham. of Com.
Eggleston, J. M. (M. E.), 70 E 9th
Elliott & Scoggin, McKay bldg
Fallows, Benj. (Mining), Chamber of Com.
Frame, A. B., Columbia bldg
Galvani, W. H., Oregonian bldg
General Engineering & Construction Co. (Consulting), Breeden bldg
Glover, T. J. (M. E.), Failing bldg
Greenleaf, R. S., McKay bldg
Greenley, Louis A. (Mining), 204½ Wash'n
Grogan, J. M., 323 4th
Grondahl, W. A. (& M. E.), Worcester blk
Grove, C. D. (M. E.), McKay bldg
Haff & Colwell (Mining), Oregonian bldg
Hampton, W. H. (Mining), 475 W Park
Huber & Maxwell, Sherlock bldg
Hurlburt, J. A., 1143 E Yamhill
Jamieson, J. Q., 475 Hassalo
Kelley, J. G., 1635 E 13th
Lewis, L. R., Commercial bldg
Lindsey, Jas. (Mining), Cham. of Com.
Lockwood, J. B. C., 656 Worcester blk
Loring, David, Hamilton bldg
McQuinn, J. A., 395 2nd
Machen, Chas. F. (M. E.), 67 N 1st
Miller, J. F., 620 E 9th
Muir, T. K. (Mining), Abington bldg
Neville, H. L. (Mining), 349 Ross
Ohlhoft, August, 325 Sheridan
Oliver, Emery, 745 Hawthorne av
Paget & Clark, Washington bldg
Philbrick, S. M. (M. E.), 420 E 22d, N
Rankin, O. M., Chamber of Commerce
Robinson, C. M., 1184 Holgate
Rockwell, Cleveland, Worcester bldg
Rowland, Theodore, McKay bldg
Rullman, Charles, 645 Williams av
Ryan, J. H. (Mining), 414 Davis
Sears, A. F., 193 Union av, N
Smith, J. H., St. Johns
Thomas, C. M., Commercial bldg
Turner, H. M. (Mining)
Van Winkle, F. J., Marquam bldg
Walters, W. J. (Mining), 202 5th
Wingate, G., Sherlock bldg

ROSEBURG—Briggs, W. F.
Kimball, G. W.

SALEM—Gesner, A.
Gobalet, Alfred

SILVERTON—Davenport, Timothy W.

OKLAHOMA TERRITORY.

GUTHRIE—White, T. A. (City)
Benham & Adams (C. E.)

OKLAHOMA—Bradley, Clifton
Cortney, J. A., 412 Grand av
Dabney, A. L.
Fatherson, T. W.

SUMMITTER—Elmer, W. W. (Consulting, Mining)
Fenner, C. H.
Jucussen, Edmund (Mining)
THE DALLIES—Crandall, C. J.
Goit, J. B.
Sharp, E. F.

PENNSYLVANIA.

ALLEGHENY—*Albree, C. B., 1115 Market
*Bradley, C. H., Jr., & Co. (& M. E.), Penn-
sylvania av & Grant av
Ehlers, Chas. M., 615 W Diamond
McGrew, John A., 1013 Penn av
McKinney, W. S. (M. E.) (Pres. McKinney
Mfg. Co.), Market & Locust
ALLENTOWN—*Douglass, Wm. M. (Supt. Amer-
ican Steel & Wire Co.)
Grossart, Chas. W., Ruhe bldg
Grossart, Lewis J. H., Com bldg
Jacoby & Weishampel, Commonwealth bldg
Lehigh Engineering Co. (Bridges, Sewers,
Pavements, Water Works, etc.)
Lehr & Bascom, Young bldg
Martz, J. Howard, Lyric bldg
Rathburn, R. S., 446 Chew

ALTOONA—*Atterbury, Wm. W. (Supt. M. P.,
Penn. R. R. Div.)
Carson, S. C., 11th & Greene av
*Dudley, Chas. B. (Chemist, Penn. R. R. Co.)
*Elmer, Wm. Jr., 1222 12th av
Fraser, W. M., Mater bldg
Gwin & Forsythe, 1100 20th av
Linton, Harvey (City), 612 12th
Sillyman, J. S., Schenck blk

APOLLO—McMullen, P. S.,
Moffatt, Ray
ASHLAND—Garner, Joseph R.
ASHLEY—Coulter, William S.
Post, Edw. H.
ASPINWALL—Herr, S. F.
ATHENS—Union Bridge Co.
AVALON—McBride, John
BEAVER—Harper, Jas. (Surveyor)
BEAVER FALLS—Barker, Harry T. (& Sur-
veyor), 401 7th av

BEDFORD—Hackerman, Edw.
BELLEFONTE—Thomas, F. H.
Wetzel, J. H.
BELLEVUE—Edeburn & Cooper (City)
BERLIN—Tiffany, J. E. B. (C. E. & Mining)
BETHLEHEM—Grossart, L. J. H.
Klein, Jos. F. (M. E.) (Prof., Lehigh Univ.)
*McKee, Jos. J.
Neumeyer, Robert E. (City)
Whitney, Emery S.

BIRDSBORO—Rea, Samuel (Borough)
BITUMEN—Miler, Geo. L. (Mining)
BLAIRSVILLE—Cornell, S. M., Jr.
Kilgore, J. V.
BLOOMSBURG—Eyer, Warren
Neyhard, Samuel
BRADDOCK—Clair, Richard
Howat, William
BRADFORD—McComb, Anthony G.
Seymour, John A.
Webster, Frank M.
Winfree, Peyton B. (City)

BRIDGEPORT—*Wilkinson, Alfred
BRISTOL—Morris, L. V.
Morris, Richard
BROOKVILLE—Caldwell, James
*Jenks, Wm. H.
BRYN MAWR—Dunne, Jno. S. G.
Garrigues, Samuel M.
BURNHAM—*Stevenson, Archie A.
BUTLER—Heydrick, J. A. Sons
McQuiston Bros. (Mining)
Pillow, G. C.

CARBONDALE—Frick, Walter (City)
CARLISLE—Hepburn, Harry
Stayman, G. S.
CARNEGIE—Trimble & Miller
CARRICK—Wolf, O. F.
CATAWISSA—Knittle, J. R.
CHAMBERSBURG—Ives, Chauncey
CHESTER—Howell, E. A. (Consulting)
Johnson, W. Shaler
Ladomus, Charles (City)
Palmer, Charles
Roberts, E. H.

CLAIRTON—Thorp, Geo. G. (M. E.) (Gen'l
Supt., Clairton Steel Works)
CLEARFIELD—Hinterleitner, H. J.
Kurtz, William
CLEARVILLE—Robinson, J. W.
COATESVILLE—Book, H. J. (Borough)
Luffkin, George W. (Surveyor)
Speakman, C. H.

COLUMBIA—Goerke, E. W.
Goerke, James F.
CONNELLSVILLE—Allen, W. K.
Foust, Samuel M.
James, S. M.
CORY—Dixon, N. R.
Ellsworth, Byron
Gilbert, G. D. (City)

COUDERSPORT—Groves, J. R.
CURWENSVILLE—Moore, T. W.
DANVILLE—Ostrander, O. H.
West, G. W.
DARBY—Harris & Schalcher
DOWNTOWN—Fisher, George H.
Johnson, J. H.
DOYLESTOWN—Meyers, Charles F.
Wintyen, William

DUBOIS—Campbell, George R.
McMinn, H. S.
Moore, William
EASTON—Brady, Chas. M., 79 N 2d
Brady, Peter, Drake bldg
Chidsey, C. F.
Cooper, A. J., 200 Burke
Davies, Geo., 45 McCartney
Dever, Frank, 723 Jackson
Esch, F. W., 33 S 3d
Fehr, Harry, Drake bldg
Folwell, A. Preston (Consulting), Glover bldg
Francisco, Lewis A. (City)
Gould, F. C., 155 Bushkill
McNeal, Jno., Wayne st.
Osterstock, J. F., 216 Ferry
Porter, J. Madison, 53 N 3d
Sawin, W. H., 165 Spring Garden
Shimer, Arthur, 208 Church
Young, Marshall, Pomfret bldg

ELIZABETH—Vankerk, J. S.
ELIZABETHTOWN—Will, I. N. S.
EMAUS—Weaver, Phaon Co.
Wenner, W. C.
EMPORIUM—Shafer, A. H.
ERIE—Briggs, B. F. (City)
*Germann, J. G., 1603 State
*Heisler, Chas. L. (Consulting), 909 W 8th
Moody, G. L., 259 W 18th
Morton, Edgar J., 320 E 7th
Slater, Edw. C., City Hall
FRANKLIN—Kennerdell, Thos. L., Park c Elk
Reed, E. C., 22 16th

FREDERICKSBURG—Richer, Saml.
FREEPORT—Findlay, G. B.
GERMANTOWN—Tuttle, Edgar F. (Mining)
GETTYSBURG—Picking, Harry
GREENSBURG—Jamison & Fogg
Janeway, J. J.
Long, C. T.
Neel, J. J.
Turney, W. R.

GREENVILLE—Brodhead, C. E.
GWYNEDD—*Kent, Ellis C.
HAMBURG—Dreibelbis, S. K.
HARRISBURG—Bastress, J. N. & Co., 5 N 2d
Cowden, M. B., 222 Market
Dunning, Henry C. (Mining)
Hershey, C. M., 9 S 2d
Roberts, G., 15 S River av
HAZLETON—Altmiller, J. E.
Ayers, W. S. (Mining)
Brooks, Celiax W.
Jones, E. J.
Kiley, George A. (M. E.)
Luzerne Engineering Co. (Civil & Mining)
McNair, J. S.
Mills, H. C.

HOLLIDAYSBURG—Irvine, O. M.
HOMESTEAD—Gettys, R. H.
HOUTZDALE—Good, G. M. H.
HUMMELSTOWN—Reamsburg, J. T.
HUNTINGDON—Africa, J. Murray
INDIANA—Caldwell, J. R.
Moorehead, D. L.
JENKINTOWN—Hunter, J. W.
JOHNSTOWN—Dye, John H., Jr., 71 Baumer
Fetterman, S. G., Woolf blk
Fulton, John (Mining)
*Morgan, Jos. (Chief Engineer, Cambria
Steel Co.)
Fulton, John, 136 Park pl
Goldstein, E. L., 241 Franklin
Pott, John N. (Mining)

KINGSTON—Rosser, David M.
KINZUA—Strong, Le Roy
KITTANNING—Ayers, John
Maxwell, W. H.
Neubert, John
LANCASTER—Best, Jas. B. (M. E.), 333 E
Fulton
Carpenter, Israel (City), City Hall
Herr, Allen A. (& M. E.)
Stamm, Fred'k (M. E.), 331 E Fulton

LANSDOWNE—Janvier, Thomas C.
LEBANON—Crowell, Thomas R. (City)
Hain, Daniel W.
Hayes, G. W.
LEWISBURG—Reahl, E. B.
LITITZ—Erb, I. G.
Miller, Johnson
LOCK HAVEN—Ball, Charles E.
Ball, Edw. E. (Surveyor)
Ronion, T. W. (City)
Welch, E. H.

LUZERNE—Alger, W. B.
Wright, Thomas
McKEESPORT—Hallam & Co.
*Saunders, Augustus M. (Supt., National
Taylor, Romine & Scott Tube Works)

MAHANOEY CITY—Bowman, Mark D.
Dillman, Daniel
MANHEIM—White, F. R.
MAUCH CHUNK—Mackl, Franz (County)
Yarrington, William
MEADVILLE—Doane, W. A. (City)
MEDIA—Bechdolt, C. J.
Broomall, Carroll
*Wood, Wm. H. (Contractor)

MIDDLETOWN—Hoffer, C. H.
MILLERSBURG—Cooper, S. W.
MONONGAHELA CITY—Jenkins, George D.
MONTROSE—Chapman, J. W.
MOUNT CARMEL—Beveridge, D. E.
Kemble, Isaac (Borough)
MOUNT JOY—Brubaker, M. N.
MUNCY—Eldred, C. D.
Lloyd, Thomas

NEW BETHLEHEM—Shaffer, S. Taylor
NEW BRIGHTON—Cuthbertson, H. C., 1027 3d
NEW CASTLE—Gano, S. G. av
McConahy, Robert H. (City)
Wood, F. R.
Zahniser, G. B.
NEW KENSINGTON—Hall, J. D., 838 5th av
NEWTOWN—Hutchinson, J. P.
Merrick, J. S.

NORRISTOWN—Calhoun, A. K.
Corson, A. W.
Cresson, Jas.
Patterson, Malcolm D.
Rittenhouse, F. (M. E.), opp. P. R. R. Sta.
NORTH WALES—Freed, I. G.
OIL CITY—Greenfield, Carl J.
Hyde, A. T.
Robinson, H. B.
Roess, George F. (City)

PATTON—Ayers, Geo. H. (Borough)
PERKASIE—Moyer, H. G.
PHILADELPHIA—Adams, Clyde S. (also Arch-
itect), 1233 Arch
Albrecht, Otto (M. E.), 1405 N 15th
Albright, Chester E., Land Title bldg
Armitage, Geo. T. (M. E.), Girard bldg
Atmore, Chas. W., Land Title bldg
Austin, Wm. H., 424 Mint Arcade
Bache, Franklin (Consulting Engineer &
Mining Expert), Land Title bldg
Bain, Wm. G. (M. E.), Real Estate Trust
bldg

Baker, David (Consulting M. E., Blast Fur-
naces, Coal Washing, Coke, Metallurgical
Fuel, etc.), Real Estate Trust bldg
Benner, Samuel T. (M. E.), 1319 Filbert
Bilgram, Hugo. (M. E.), 1235 Spring Garden
Birkinbine, Henry, 1806 Chestnut
*Birkinbine, John (Consulting), Odd Fellows
Temple
Birkinbine, Jno. L., 4841 Walton av
Blanton, E. A., Jr. (Consulting), Phila.
Bourse

*Blatchley, Chas. A. (M. E.), Drexel bldg
Boardman, Wm. H., 426 Walnut
Boas, F. J., Rothschild bldg
Bonsack, Jas. A., 1328 Chestnut
Bonzano, Adolphus (Consulting), 331 S 18th
Borden, Joseph E. (Surveyor), Phila Bourse
Boyt, Jno. T. (Consulting), 387 Phila.
Bourse

Breed, Geo. (Consulting & M. E.), Real
Estate Trust bldg
Brinton, Walter (Surveyor), 521 Venango
Brown, Edw. (M. E.), 311 Walnut
Budd, James H., Witherspoon bldg
Burnap, A. M. (Consulting), Drexel bldg
Call, Jarvis (Surveyor), 216½ Walnut
Carlisle, Wm. K. (& Surveyor), 1500 Mont-
gomery av

Cassin, Isaac S., Jr., 1720 Erie av
Chambersburg Engineering Co. (M. E.),
Phil. Bourse
Chance, Henry M. (Mining), Drexel bldg
*Clark, Walton (Gen'l Supt., United Gas
Impt. Co.), n w c Broad & Arch
Clarke, Herbert A. (Consulting), Perry bldg
Clarkson, Robt. C. (Consulting), Stephen
Girard bldg

Colby, J. A. (M. E.), Witherspoon bldg
Coleman, H. F., Real Estate Trust bldg
Collins, Chas. W., Witherspoon bldg
Commercial Engineering Co., Witherspoon
Cook, Chas. R. (M. E.), 150 N 6th bldg
Cornell, Elijah B. (M. E.), 922 N 19th
Courtenay Construction Co. (Contracting),
1305 Arch, Phila., Pa.

*Cramp, Edwin S. (Superintending Engineer,
Wm. Cramp & Sons
Cranmer, Wm. C. (Surv.), Heed bldg
Cruse, Arthur R. (M. E.) (Pres.), Stephen
Girard bldg
Dallett, W. P. (M. E.), 49 N 7th
Darlington, F. Wayne (Consulting, Mining
& M. E.), Real Estate Trust bldg
Darrach, Chas. G. (Consulting), Drexel bldg
*Dawes, Robert E. Erie c Trenton av
De Gratesse, J. R. (Consulting, Concrete).
Peuna bldg

De Kinder, J. J. (M. E.), Girard bldg

Denman, W. M., West End Trust bldg
 D'Inviillers, Edw. V., 506 Walnut
 Dodge & Day (Modernizing), Drexel bldg
 D'Olier Engineering Co. (M. E.), 119 S 11th
 *Drysdale, W. A. (Consulting), 415 Hale bldg
 Dunn, Houston (Consulting), Drexel bldg
 Dyer, W. E. (Consulting M. E.), Land Title bldg
 Easby, M. Ward (Consulting), 909 Crozer bldg
 Edgerton, Chas. (Consulting M. E.), 112 N Broad
 Edwards, L. T. (M. E.), 1530 Chestnut
 *Ehlers, Peter (Chief Eng'r, Wm. S. McCann Sugar Refining Co., 3227 N 17th
 Eickhoff, Herman (M. E.), 1934 York
 Ellis, David M. (Mining), Provident bldg
 Ellis, Jos. D., Provident bldg
 *Ely, Theo. N. (Chief of Motive Power, Penn. R. R., Broad Street Station)
 Engineering Bureau, 1030 Witherspoon bldg
 Engstrom, Alex. H. (Consulting & Designing M. E., Electric Traction, Water Power & Long Transmission), Bullitt bldg
 Fairchild & Gilchrist (& Mining), Franklin bldg
 *Falkenau, Arthur (Consulting M. E. & Expert), Witherspoon bldg
 Feister, Henry J. (Consulting), 2215 Tioga
 Francis Bros. & Jellett, Inc. (Consulting), 245 N Broad
 Franklin & Clarke, 1420 Chestnut
 Fuller, Herbert M. (Surv.), 1525 Indiana
 Garrison, F. Lynwood (M. E.), Drexel bldg
 Gatzmer, Wm. C., River Front, bel Princeton av, Tacoma
 Gay, Henry M. (Surv.), 204 Walnut
 Gifford, C. H. & Co. (M. E.), 135 N 3d
 Gillingham, J. Harvey (Surv.), 108 S 40th
 Gilpin, Richard (Consulting), Phila. Bank bldg
 Granger, A. D. Co. (M. E.), Commonwealth Trust bldg
 Grantham, H. T. (M. E.), Real Estate Trust bldg
 Gray, Wm. S., Witherspoon bldg
 Green, Robert P. (Consulting), Stephen Girard bldg
 Haig, Robert (Surveyor), Phila. Bourse
 Hollowell, Clifton C. (M. E.), Land Title bldg
 *Hand, Francis L., City Hall bldg
 Harris Engineering Co., Mutual Life bldg
 *Hartman, John M., 1235 N Front
 Hedden, E., Rothschild bldg
 Herr, Homer A. (Consulting M. E.), 441 Chestnut
 Hess & Barker (M. E.), 605 Sansom
 Hexamer, E. & Son, 419 Walnut
 Hibbert, Walter W. (M. E.), Hale bldg
 Hollingsworth, L. (M. E.), Girard bldg
 Holt & Schober (Consulting & Contracting, Specialty Cold Storage, Mill & Power Plants), Provident bldg
 Houston, Edwin J. (Consulting), Crozer bldg
 *Howell, Edw. I. H. (Consulting), 260 Bullitt
 Hughes, Hy. B., Land Title bldg
 Humphrey, Richard L. (Consulting), 1001 Harrison bldg
 Hunt, Robert W. & Co., 3754 Main
 Johnson, Jos. (Surveyor), 4039 Lancaster av
 Jones, Jas. F., 3313 Powelton av
 Jost, Fred'k W. (Consulting), 1904 Pine
 Judge, Chas. A., 3042 Richmond
 Kibbe, Aug. S., Witherspoon bldg
 Kitchell, Robert R. (M. E.), Land Title bldg
 Klemm, J. Geo., Jr. (Consulting), Arcade
 Klein, Chas. C. (Consulting & Contracting M. E.), 2850 N Marshall
 Kley, Percy A. (Consulting), 1936 Sansom
 Knight, Chas. F. (M. E.), 152 N 21st
 Kurrle, Geo. R., 637 Watts
 *Ladd, Jas. B. (Consulting), Real Estate Trust bldg
 Lator, J. D. Engineering Co. (Consulting), 1305 Arch
 Lathbury, B. B. (C. E.), Land Title bldg
 Lathrop, John P. P., 63d c Overbrook av
 Latta & Terry, Penna bldg
 Levering & Garrigues Co., 3302 Ludlow
 Lewis, Walter M., Witherspoon bldg
 *Loss, H. V. (Consulting), North Am. bldg
 Ludlow, Rodney (M. E.), Girard bldg
 Lyman, Benj. S. (Mining), 708 S Wash'g sq
 McGeorge, Percy (Mining), Bullitt bldg
 McLean, Wm. & Co., Harrison bldg
 Machold & Riddell (M. E.), Stephen Girard bldg
 Main, Thos. B. (Consulting), Stephen Girard bldg
 Marshall, Jas. F. (M. E.), 4256 Regent
 Marshall, H. H. (Consulting), 1012 Walnut
 Matteson & Drake (Consulting), 706 Phila.
 Mebus, Chas. F., Land Title bldg Bourse
 Mellor, L. Bancroft (M. E.), 14 S 4th
 Melville & Macalpine (Consulting & Naval), 615 Walnut

Mercer, Jos. (Surveyor), 441 Norris
 Merritt & Co. (M. E.), 1024 to 1028 Ridge av
 Mickle-Milnor Engineering Co. (M. E.), Drexel bldg
 *Mirkil, Thos. H., Jr. (Supt.), S 5th c Washington av
 Moister, Frank L., 411 Walnut
 *Morris, H. G. (Eng'r & Mach.), 333 Walnut
 *Muckle, M. R., Jr., & Co. (Consulting), Mar. & Mer. bldg
 Munday, Wm. J. (Surveyor), 204 Walnut
 *Naylor, Jno. S., Girard av & N Front
 Newhall, Geo. M. Engineering Co. (Ltd.) (Consulting M. E.), 136 S 4th
 Nobre, John M. (Surveyor), 1701 Snyder av
 O'Rourke, James F., Drexel bldg
OSBORN ENGINEERING CO. (Consulting C. E. & M. E., Specialists in Designing of Machinery, Power Transmission & Mfg. Plants of all kinds), Land Title bldg. (See adv. index, end of book)
 Oubln, Chas. B., 5423 Haverford
 Paige, A. E. (Consulting & M. E.), Land Title bldg
 Patterson, D. W. (M. E.), Harrison bldg
 Penn Eng. Co. (Inc.) (M. E. for Refrigerating, Steam, Electrical, Gas & Hydraulic Machy.), Perry bldg
 Peuckert, Kurt W., 310 Chestnut
 Pfautz, Daniel M. (M. E.), 5511 Chew, Gtn
 Phila. Engineering Co. (Consulting), Heed bldg
 Pittsburg Testing Laboratory (Consulting), Crozer bldg
 Pole, Thos. C. (Consulting), Land Title bldg
 Pugh & Hubbard, Real Estate Trust bldg
 Pusey, Fred S. (Mining), Drexel bldg
 Quimby Eng. Co. (M. E.), 913 Ridge av
 Reid-Turnbull Construction Co. (Steel Concrete), Penna bldg
 Rein, Edw. A. (M. E.), 2900 Fletcher
 Remmers, B. & Sons (Consulting & Construction M. E., Specialties: Starch & Dextrin Industries), Bourse bldg
 Riley, Jas. L. & Co. (M. E.), 1314 Ridge av
 Roberts, Frank C. & Co. (Structural), Real Estate Trust bldg
 Robinson, Wm. H. (Consulting M. E.), Betz bldg
 Rondinella, L. F. (Consulting M. E.), Stephen Girard bldg
 Rowan, H. A., Jr. (M. E.), 1203 Sansom
 Rumsey, Eugene A. (M. E.), 1211 Filbert
 Ruwell, Wm. F. (M. E.), 721 Noble
 Sanders, Richard H. (Mining), Drexel bldg
 Sax & Abbott, 1328 Chestnut
 Schofield Co. (Consulting), Penna bldg
 Schofield, H. A. (Consulting), Crozer bldg
 Schiller, F. & Co., 323 N 3d
 Schramm, Christian D. (M. E.), 219 N Front
 Schutte & Koerting Co. (M. E.), 12th c Thompson
 Scoll, Geo. P. (Consulting), 929 Chestnut
 *Sellers, Coleman (Consulting M. E. & Prof. of Eng'r'g), 1301 Stephen Girard bldg
 Shelton, F. H. (M. E.), Penna bldg
 Shuman, Frank (M. E.) (Treas.), Penna bldg
 Simpson, Wm. L. (Consulting & M. E.), 112 Drexel bldg
 Smlth, Edwin F. (M. E.), 479 N 5th
 Snyder, Robert J. (Consulting M. E.), Land Title bldg
 Spackman, Henry S. Engineering Co. (Consulting, Specialty Cement Plants, etc.), 42 N 16th
 *Spangler, H. W. (Prof. Dyn. Engrg.), 4815 Springfield av
 Stewart, James M., Bullitt bldg
 Stillwell, Chas. B. (M. E.), Witherspoon bldg
 Stitzer, J. H., Jr. (Consulting), Land Title bldg
 Stockton, P. Allen (Mining), 304 S 13th
 Stout, A. L. (M. S.), Arcade bldg
 Sturtevant, B. F. Co. (M. E.), 135 N 3d
 Sundstrom, Carl A. (Surveyor), 4444 Main
 Taylor, Enoch L., 4143 Parrish Myk
 Teal, Chas. A. (M. E.), 1361 Ridge av
 Temple, John C. (Consulting), Land Title bldg
 Thompson Bros. (M. E.), 112 Broad bldg
 Thorn, Fredk. G., Jr., Stephen Girard bldg
 Townsend, David (M. E. Consulting & Contracting), Witherspoon bldg
 Townsend, Eugene (Mining), Drexel bldg
 Trautwine, Jno. C. (3rd), 257 S 4th
 *Twining, Wm. S. (Chief Engineer, Union Traction Co.), 820 Dauphin
 Van Duzee, Harold, 427 Walnut
 Wagner, Jos. C. (Surveyor), Chelton av c Green, Gtn
 Wallace, R. Bruce & Co. (M. E.), 1327 But-tonwood
 Walters, Geo. C. (M. E.), 1316 Ellsworth
 *Watson, Frank (Dynamite Gun Expert), Navy Yard
 Webb, Walter L. (Consulting M. E.), Land Title bldg

Webster, Geo. S. (Chief Engineer, Bureau of Surveys), 412 City Hall
 Webster, Howard J. (Consulting), Harrison
 Webster, Wm. R., 411 Walnut bldg
 Weeks, Chas. A. (M. E.), 411 Walnut
 White, Ernest M. (M. E.), 411 Walnut
 *Whitham, Jay M. (Consulting), Bullitt bldg
 Wilder, Moses G. (M. E.), 411 Walnut
 Williamson Bros. Co. (M. E.), Aramingo av c E Cumberland
 Willis, Warren E. (M. E.), Odd Fellows' Temple
 Wilson, John J. (Consulting), 2023 N 25th
 Wobensmith, James C. (M. E.), 227 N Creighton
 *Wolf, Otto C. (& Architect), 1025 Arch
 *Wood, Albert C. (Consulting), Penna bldg
 *Wood, Walter (Mfr.), R. D. Wood & Co., 400 Chestnut
 Wright, Ransome C. (Patents, M. E.), 727 Walnut
 Wurts, Theo. F., Land Title bldg
 W. & W. Eng. Co. (M. E.), 411 Walnut
 Young, Joseph H. (& Surveyor)
PHILIPSBURG—Hartman, H. H.
 Hoyt, A. V.
 Lemon, C. S.
 Lingle, Chester M.
PHOENIXVILLE—Logan, J. W. (Treas., Logan Mfg. Co.)
 Williams, H. S. (Surveyor)
PITTSBURG—Acklin, A. M. (M. E.), House bldg
 Aiken, Henry (Consulting & M. E.), McCandless & A. V. R'y
AMSLER ENGINEERING CO., Diamond Bank bldg. (See adv. index, end of book)
 Andrews & Southard (& Mining), Frick bldg
 *Ashworth, Daniel (Consulting & Mining), Park bldg
 Bair & Gazzam Mfg. Co., 29th & Smallman (M. E.)
 Banks, N. C. (Mining) Farmers' B'k bldg
 Barr, J. C. Co. (Mining), 309 4th av
 Barrett, Jonathan (Surveyor), Farmers Bank bldg
 Baxter & Young (Consulting), Lewis blk
 Beutner, Victor (Consulting M. E., Steel Works & Furnaces), Westinghouse bldg
 Bigelow, Edw. M. (Director D. P. W.), City Hall
 *Bray, Chas. W. (Chief Engineer, American Tin Plate Co.), Frick bldg
 *Bray, T. J., Jr., 6727 Thomas
 Brockman, E. T. & Co. (Mining), Keystone bldg
 Browne & Layton, 413 4th av
 Bryan, Jas. (Consulting M. E., Power Stations & Lighting), Park bldg
 Chapin & Knowles (Consulting, Water-works, Sewerage, Sewage Disposal, Etc.), Frick bldg
 *Clapp, Geo. H. (Chairman, Pittsburgh Testing Laboratory, Ltd.), 325 Water
 Cole, Henry E. Co. (M. E.), Park bldg
 Converse, Edward H. & Co., Times bldg
 Coursin, Wm. J. (Consulting, Civil & Mining), House bldg
 Crooker, Ralph, Jr. (Consulting), Columbia Bank bldg
 Crowell, Harry C., 1013 Penn av
 Cruikshank, J. W. (Consulting), Farmers Bank bldg
CUMMINGS STRUCTURAL CONCRETE CO. (Consulting & Constructing, Reinforced Concrete Construction, etc.), 4 Smlthfield. (See adv. index, end of book)
 Davison, Geo. S. (Consulting), Frick bldg
 Diescher, Saml. & Sons (Consulting for Steel Works & Mfg. Plants), Farmers' B'k bldg
 Dixon, Jos. L. (Mining), Park bldg
 Doe, Justin S. (Consulting Mining), Arrott
 Donley, Wm. McC., House bldg
 Douglas, Henry D., Jr., 339 N Pacific av
 Duck, Geo. F. (Mining), Keystone bldg
 Duckham, Albert E., House bldg
 Eagle Tool & Machine Co. (M. E.), 519 Ann
 Edeburn, Wm. A., 504 Diamond
 Edeburn, Cooper & Co., 410 Grant
 Elliott & Batton (& Mining), Keystone bldg
 Emmons, Newton W. (Mining), Park bldg
 Farrar, S. C., Jr. (& M. E.), Ferguson bldg
 Farren, Ernest L., Fidelity bldg
FAWCUS MACHINE CO. (Consulting M. E., etc.), 2820 Smallman. (See adv. index, end of book)
 Federal Engineering Co. (Consulting & Contracting), House bldg
 Felkel, Frank, 1234 Greenfield av
 Fohl, W. E. (Mining), House bldg
 Porter-Miller Eng. Co. (Furnace & Steel Works), Westinghouse bldg
 Francis, John S. (M. E.), Times bldg
 Frease & Spolling, Carl bldg, Wilksburg
 Gilfillan, G. A., Fidelity bldg

Glafe & Plagwitz (Consulting C. E. & M. E.), Frick bldg
 Grosskreuz, Soffel & Henderson, 245 4th av
 Harrop, Hopkins & Taylor, Lewis blk
 Hartrick, R. S. D., 8 Wood
 Hawley & Wharton (Consulting), Bessemer bldg
 Howard, C. P. (C. E., M. E.), Empire bldg
 *Huber, S. V. & Co. (Consulting, Steel Works & Furnaces), Ferguson blk
 Hunt, Robert W. & Co. (Consulting & Testing), Monon. National Bank bldg
 Hunter, R. F., 512 4th av
 Hyde, Chas. (Consulting), Empire bldg
 Iron City Draughting Co., 806 Wylie av
 Jones, J. J. Engineering Co., Westinghouse bldg
 Judd, Chas. B., Park bldg
 Kennedy, Julian (Consulting & Contracting M. E.), Bessemer bldg
 Kennedy, Walter (Consulting, Steel Works, M. E., etc.), Bessemer bldg
 Kennedy & Smith, 400 Grant
 Kerr, Andrew & Co. (Structural Steel Work, Power Houses, etc.), Ferguson blk
 Kerr, B. A., 504 Diamond
 Keystone Engineering Co. (Consulting & Contracting M. E., Power Plants, Steam & Gas Engines, etc.), Farmers' Bank bldg
 Knopf, Herbert K., Frick bldg
 Knox, F. H. (Consulting), Lewis blk
 Lamond, David & Son (Consulting & Contracting M. E., Blast Furnaces, etc.), Ferguson bldg
 Langenheim, G. C., Times bldg
 Laub, Herman, Lewis blk
 Laughlin, Alex. & Co. (M. E. & Contractors), Lewis blk
 Lee, Thos. B. (M. E.), 407 4th av
 Lewis, Harry J., Times bldg
 Link-Belt Eng. Co. (Consulting), Park bldg
 Lippincott & McNeil (& Mining), 432 Diamond
 Little, Richard D. (M. E.), Carnegie bldg
 Lucius, E. C. & F. J., House bldg
 Lyon, J. D. & Co. (M. E.), Farmers' Bank
 McCabe, Junius D., Fidelity bldg
 McClure, G. W. Son & Co. (Consulting M. E., Blast Furnaces, etc.), Bessemer bldg
 McCrickart, Mont, 7343 Monticello
 McCully Engineering Co. (& Mining), 503 5th av
 McGary, E. L. (Consulting M. E., Steel Works & Furnaces), 20 Meridan
 McGrew, Jno. & Edw., 431 4th av
 McMasters, J. R., Penna bldg
 McMullen, Frank V. (M. E.), Smith bldg
 Mahon, Jas. J. (Contracting M. E.), House bldg
 Melber Co. (Consulting), Second National Bank bldg
 Metallurgical Laboratory, Bailey Farel bldg
 Milbolland, Jos. H., 326 4th av
 Miller-Patterson Co. (Consulting, Mining & C. E.), 407 4th av
 Milliken Bros., Park bldg
 Mobley, Watson C., 237 5th av
 Monongahela Engineering Co. (Contracting), Lewis blk
 Moore, L. C. (Consulting), 4 Smithfield
 Morse, E. K. (Consulting), Farmers' Bank
 Neeld, Almos D., Times bldg
 Nisbet, D. F. (M. E.), Lewis blk
 Ostrom, John U. (C. E.), Farmers' Bank bldg
 Owens, C. E., 425 4th av
 Patten, Willard W. (Contracting M. E.), 312 1st av
 Penna. Engin. Co. (Mining), Frick bldg
 Pittsburg Engineering Co., Keystone bldg
 Pittsburg Steam Specialty & Engineering Co. (Consulting), Empire bldg
 Poe, C. A. & Bro. (Consulting M. E.), Park bldg
 *Prather, Henry B. (Mrg), Fidelity bldg
 Ralston, Stewart H. & Son (Surveyors), 321 Lehigh av
 Rankin & Hengst, 301 Smithfield
 Rayburn, J. M. (Mining), House bldg
 Ross, F. G., Farmers' B'k bldg
 Rott, W. C. (M. E.), 314 4th av
 Scaife Foundry & Machine Co. (Ltd.) (M. E.), 28th & Smallman
 Schellenberg, F. Z. (Consulting), 5746 Howe
 Schinneller, Jacob (M. E.), 331 4th av
 Smith, R. L., Park bldg
 Smythe, S. R. Co. (Consulting, Steel Works, etc.), House bldg
 Swenson, Emil (Constructing & Consulting), Frick Bldg.
 Taylor, S. A. (Mining), Lewis blk
 *Temple, W. C. (Consulting), Farmers' B'k
 Trimble & Miller, 435 4th av
 Union Consulting Eng. Co. (Consulting), 209 9th
 Vollkommer, Theo. J. (Steel Structural Work, Complete Mfg. Plants), Lewis blk
 Wakefield, W. S., Ferguson blk

White, Wm., Jr. (Consulting), Empire bldg
 White & Wemer, Burgwin bldg
 Whyte, Lawrence R. (Consulting M. E.), Bessemer bldg
 Wilkins, Wm. G. Co. (Consulting, Bridges, Railroads, Water Works, Sewers, Mill Buildings, Collieries & Coke Ovens), Westinghouse bldg
 Wilson, Nelson C. (M. E.), 209 9th
 Wolfer, Frank T. (American Bridge Co.)
 Wolff, F. O., 1201 Carson
 Wood, Geo R. (Electrical & Mining), Farmers' Bank Bldg.
 Wortbington, Chas. (Steel & Fire Proof Construction), Farmers' B'k bldg
 Rutherford, B. (Consulting), Westinghouse
 Ruth, W. M. (M. E.), House bldg
 Schleper Engineering & Contracting Co. (Contracting), Times bldg
 Union Audit Co. (Consulting), Park bldg
 Walther, C. F., House bldg
 Watkins, Clarence B., 238 4th av
 Whitmore Homer E., 6503 Meadow
 Wilkins, C. V. G. Co. (Mining), Westinghouse Bldg.
 Whyte, Laurence B. (Consulting), Bessemer bldg
 Young, Jos. H. (Civil Eng. & Surveyor), Perry Bldg.
 PITTSTON—Berry, J. W., 1st Natl. Bk.
 Collins, H. G., 311 Spring, W. P.
 Dickey, Edwd. P., 205 York, W. P.
 Griffith, Wm., 405 River av, W. P.
 Meyers, Harry, Miners' (City), Savings Bk.
 Patterson, C. R., & Son, 1st Natl. Bk.
 PORT ALLEGHANY—Hadley, M. J.
 Smith, W. E.
 PORT CARBON—Allison, Robert (M. E.)
 POTTSTOWN—Shaner, R. E.
 Wagner, G. F. P.
 POTTSVILLE—Althouse, Harry A. (M. E.)
 Clemens, Frank G., House bldg.
 Cochran, A. B. & Son
 Geary, J. W., 26 S Centre
 Pugh, Wm. S., Morris bldg
 Thompson, H. S., 102 S Centre
 Womelsdorf, A. J., 102 S Centre
 PUNXSUTAWNEY—Coulter, Eli (City)
 QUAKERTOWN—Ommerin, J. V.
 READING—Beard, E. H. (City), City Hall
 Brown Engineering Co. (Consulting & Constructing)
 Davis, N. H., 519 Court
 Dechant, Wm. H., 536 Penn
 Dreibeis, M. M. (& Surveyor), 540 Court
 Hull, G. A., 529 Court
 Karns, W. H., Colonial Trust bldg
 Kendall's, H. T. Sons, 24 N 6th
 Nolan, T. G., 1046 N 5th
 Ulrich, E. B. (& Surveyor), Baer Bldg.
 REYNOLDSVILLE—Smith, J. S.
 RIDGWAY—Little, Horace
 Morgan, John
 Willard, Eugene
 RIDLEY PARK—Darrach, Chas. G. (Consulting)
 ROCHESTER—Cummings, R. A.
 Leaf, James P.
 SCRANTON—Archbald, Jas., 424 Jefferson av.
 Barnard, Montrose, Republican Bldg.
 Bartl, Edmund A. (Mining), Connell bldg
 *Bois, H. M. (Pres., Moosic Powder Co.), 530 Clay av
 Bleitt, Patrick (Mining), Library Bldg.
 Dunning Engineering Co. (Consulting & Mining), Mears bldg
 *Foster, Rufus J. (Pres., Colliery Eng'r Co.), Colliery Eng'r bldg
 Griffith, Wm. (Mining), Coal Exchange bldg
 Harding, H. L. (Mining), Connell bldg
 *Harris, John J., 438 Breck
 *Lane, J. S., 227 Wyoming av
 Lawall, Elmer H. (Mining), Inter. Text Book Co.
 Lawrence, Job L., 1721 Summit av.
 Leighton & Davis (Mining), Coal Exchange bldg
 Mattes, Wm. F. (Consulting & Mining), Commonwealth bldg
 Morrison, Henry M., 1543 N. Main av.
 Phillips, Joseph M. (City), Municipal Bldg.
 *Poore, J. B., 1730 Capouse av
 Rittenhouse, J. H. (M. E.), Connell bldg
 Sadler, W. H., 2067 N. Main av.
 Schaar, Christian H., 2073 N. Main av.
 Sanderson, J. G. (Mining), Mears Bldg.
 Stevenson & Knight (C. E., Mining & Surveyor), Connell bldg
 Thompson, Randall W., Jr. (Mining), Library Bldg.
 Wolfe, Frank G. (Mining), Board of Trade
 SELINGSGROVE—Richter, H. E.
 SEWICKLEY—Hirst, T. H.
 Webber, R. L. (Borough)

SHAMOKIN—Douty, Charles H.
 Lorenz, F. William
 *Mullen, John (Prop. & Gen'l Mgr., Shamokin Iron Works)
 SHARON—Jenkins, M. W.
 Nichols, James
 SHARPSVILLE—*West, Thos. D. (Mgr., Thos. D. West Eng'r Co.)
 SHENANDOAH—Glover, D. T.
 Gregory, W. G. (City)
 SHOEMAKERSVILLE—Seidel, A. S.
 SLATINGTON—Oplinger, G. T.
 SOUTH BETHLEHEM—Neumeyer, R. E. (City)
 SPRING CITY—Rhoades, Isaac P. (Borough)
 STATE COLLEGE—*Reber, Louis E. (Dean, School of Eng'r, Pa. State College)
 STEELTON—Earle, Thomas
 Reynnders, John V. W.
 STROUDSBURG—Appenzeller, J.
 SUNBURY—Boyer, H. S.
 Burkstesser, P. S.
 Keefer, George F.
 Lenker William G.
 SWARTHMORE—*Bartb, Carl G., Box 714
 *Beardsley, Arthur (Emeritis Prof. of Engineering, Swarthmore College)
 TARENTUM—Retherford, G. L.
 TITUSVILLE—Smith, Joseph (City)
 TORREY—Reynolds, Sidney F. (Consulting M. E.)
 TOWANDA—Bull, Hiram E.
 TUNKHANNOCK—Cook, George
 TYRONE—Henry, J. L.
 McArthur, Chas. P.
 UNIONTOWN—Boyd, F. B.
 Fayette Engineering & Contracting Co. (C. E., M. E., Mining)
 Gans & Dunn
 Henshaw, Samuel W.
 Hogg & Porter
 Husted, Albert M.
 McClay, W. S.
 McCollough, E. O.
 Whyel, Geo. & Co.
 WARREN—Cornelius, L. D.
 Cray, H. A.
 McPherson, G. W.
 Parshall, M. C.
 Rogers, Alson
 Wheelock, D. F. A. (City)
 Wood, E. H. (M. E.)
 WASHINGTON—Ruple, J. C.
 Wyle, Wm.
 WAYNE—Miffin, G. B.
 WAYNESBORO—Armstrong, Harry W. (County)
 Weller, D. C.
 WAYNESBURG—Dinsmore, T. B.
 Throckmorton, Jno.
 Waynesburg Engineering & Const. Co. (C. E., Mining & Contracting)
 WELLSBORO—Hardt, Anton
 WEST CHESTER—Marshall, Sam'l (Surveyor)
 Strickland, Marcellus (County)
 WEST NEWTON—Van Kirk, J. S.
 WHITE HAVEN—Wallace, Samuel (estate of)
 WILKES-BARRE—(All Mining Engineers)
 Alleger, W. B.
 Dodge & Hughes, 3 Wyoming Bk. bldg
 Hand, Alfred, 20 City Hall
 Hartwell, Ira E., Laning bldg
 Hughes, D. F., 240 Northampton
 Ingham, Wm. V. (City Eng'r), 20 City Hall
 Pettibone & Ireland (Coal Breakers, Coal Handling Machinery, Cement Plants, etc.), Second National Bank bldg
 Post, Edw. H., Bennett bldg
 Reets, Harry S., 3 S Franklin
 Rutter, N. B., Laning bldg
 Smith, H. S., Coal Ex. bldg
 *Straw, Chas. A., 80 W Rose
 Sturtevant, Wm. H., 18 N Franklin
 WILKINSBURG—Frease & Sperling (& Consulting)
 Harlow, Jas. & Co., 701 Wood
 Levin, A. M. (M. E.), 719 South av
 *Rose, Edw. E., 442 West
 Taylor, S. A., 721 Whitney av.
 WILLIAMSON SCHOOL—*Crawford, Rob't (P. A. Engineer & U. S. N. Supt., Williamson Free School of Mechanical Trades)
 WILLIAMSPORT—Eldred, E. J. (Surveyor), 333 Market
 Fairies, R. H., 315 Mulberry
 Otto, John B., 234 W 4th
 Russell, E., Court House
 YORK—Aldinger, Samuel S.
 Getz, John
 Gross, Edward
 Ide & Heiges
 Kidd, Amos
 McKinnon, Robert B.
 Mayer, Lewis C.
 *Shipley, Thos. (Gen'l Mgr., York Mfg. Co.)

RHODE ISLAND.

BRISTOL—Brownell, Ernest H.
 *Herreshoff, Jno. B. (Pres., Herreshoff Mfg. Co.)
 Perry, Wm. H.
 CENTRAL FALLS—Keene, Wm. F. (City)
 EAST PROVIDENCE—Dexter, Walter M.
 NARRAGANSETT PIER—Hazard, T. G., Jr. (& Kent, Willard (& Surveyor) surveyor)
 NEWPORT—*Bryant, George H. (Principal, Townsend Industrial School)
 Buffum, Wm. P., 301 Thames
 Cotton, Joseph P., 201 Thames
 Lawton, William H., Jr., 24 Bellevue av.
 PAWTUCKET—Drowne, F. E., 82 Elm
 Judson, Jno. E., 155 Main
 Learned, Chas. H.
 Metcalf, Arthur H. (M. E.)
 Seabury, Dwight (M. E.)
 Smart, H. R.
 PROVIDENCE—*Almy, Darwin, 178 Allen av
 Arnold & Barlow (Consulting M. E. & Patents), 425 Butler Ex
 *Babbitt, George R., 182 S. Water
 *Beaman, E. A., Gordon av c Reynolds
 Boardman, Chas. W. (Consulting M. E.), 86 Weybosset
 Burlingame, Edwin A., 359 Brook
 Burt, A. H. (M. E.), 16 Calender
 *Bushnell, Fred. N. (Chief Engineer, R. I. Co.), Union Trust Co. bldg
 Chase, Charles F., 75 Westminster
 Clapp, Otis F. (City), City Hall
 Cruikshank, D. B. (Consulting), 33 Eddy
 Darling, L. B. (Metallurgist), 79 Sabin
 Gray, Saml. M. (Consulting, Municipal & Sanitary), Banigan bldg
 Hall, C. A. (Surveyor), 422 Broad
 Hammond, Wilberforce B. (M. E.), 301 W Exchange
 Hannigan, Chas. T. (M. E., Drawings & Patents), 941 Banigan bldg
 Jenks, Richard P. (Consulting M. E.), 930 Banigan bldg
 *Johnson, Henry J. (Consulting), 4 Market sq.
 Latham, Fred. J., 146 Westminster
 Latbam, Jos. A. (& Surveyor), 87 Weybosset
 Lewis, Warren B. (Consulting), Banigan bldg
 Makepeace, C. R. & Co. (M. E.), 429 Butler Ex.
 Manton, Joseph P. (M. E.), 204 Union
 Mowry, R. S., 152 Weybosset
 Paine, Wm. H. (Consulting M. E.), 224 Olney
 Pieczentkowski, A. G. (M. E.), 17 Custom House
 Ransom & Hoadley (& M. E.), 17 Custom House
 Remington, Geo. H. & Co. (M. E. & Patent Solicitor), 86 Weybosset
 Sarle, O. Perry (Consulting, Water Supply, Drainage, etc.), 146 Westminster
 Schofield, Mark W., 29 Exchange
 Shedd, Edw. W., 146 Westminster
 Shedd, J. Herbert (Consulting), 146 Westminster
 *Sheldon, F. P. & Co. (Mechanical, Mill, Hydraulic & Electrical Engineers), 49 Westminster
 Snow, Sylvester M. (Consulting M. E.), 257 Gano
 Temple, Wm. H. G., 75 Westminster
 Tingley, Richard H. Co. (Consulting), 75 Westminster
 Waterman, Frank E. (& Surveyor), 86 Weybosset
 Weston, Edmund B. (Consulting, Water Supply, Filtration, etc.), 86 Weybosset
 Whipple, Eugene B. (Consulting M. E.), 75 Westminster
 WARREN—Corbett & Borden
 WARWICK—Barton, H. B.
 WESTERLY—Whaley, Earl C.
 WOONSOCKET—Ellis, J. W. & Son, 160 Main
 Kent, Willard (& Surveyor), Longley bldg
 Knight, A. F. (M. E.), 39 Main
 Metcalf, John (M. E.)
 Mills, Frank H. (City)
 Parker, Chas. F.
 Spaulding, George W. (M. E.)

SOUTH CAROLINA.

ANDERSON—Sayre, O. G
 Stribling, J. V.
 BLACKVILLE—Mixon & Co.
 CHARLESTON—Dingle, J. H. (City Surveyor).
 Simons-Mayrant Co., 16 Broad City Hall
 Sloan, Erie (M. E.)
 Todd, A. W., 39 Broad
 COLUMBIA—Gibbs, W. H. & Co. (M. E.), 804 Gervais
 La Motte, A. Gamewell, 1521 Main
 McMasters, T. (M. E.), 1429 Laurel
 Miller, D. B. (City)

Niernsee, Frank, 1429 Main
 Sband & Lafaye (M. E.)
 Stoney, S. Reed
 *Whaley & Co. (& M. E.), 1328 Main
 GREENVILLE—Sirrime, J. E. (Consulting M. E.)
 ORANGEBURG—Johannsen, Henry H.
 ROCKHILL—Roddey & Whitner
 SPARTANBURG—Howe, W. B. W.
 Ladshaw & Ladshaw ("Consulting," Civil, etc.)
 Peirce, F. A.

SOUTH DAKOTA.

ABERDEEN—Wasbburn, D. C.
 DEADWOOD—Ames, G. F.
 Black Hills Eng. Co.
 Hartgering, Jas.
 Hickox, J. R.
 Peck, Frank
 Phillips, Alvin & Co.
 Vincent, H. S.
 ELK POINT—Vinson, W. M.
 FLANDREAU—Harza, Le Roy
 HOT SPRINGS—Utter, A. H.
 HURON—Fessenden, G. A.
 LEAD—Crick, J. P.
 Gidley, A. B.
 Mitchell, E. W.
 Schnitzel & Moody
 Walsh, W. M.
 MADISON—Gregor, John
 MILBANK—Crowl, W. S.
 MITCHELL—Greene, Israel
 RAPID CITY—Willis, Myron
 SIOUX FALLS—Howe, S. B.
 STURGIS—Ladd, G. W.
 TYNDALL—Young, J. C.
 VERMILION—Gunderson, Carl
 WATERTOWN—Carpenter, G. W.
 WEBSTER—Alley, Josephus
 YANKTON—Bates, C. H.
 Palmer, E. D. (Consulting, Bridges, Foundations, etc.)
 Van Antwery, E. H.

TENNESSEE

BRISTOL—Aldrich, Arthur C.
 Lockbart, J. W.
 Mitchell, W. L.
 CHATTANOOGA—Dietz, O. A., 817 Georgia av
 Guild & Co. (Consulting & M. E.), Keystone
 Gustafson Mfg. Co. (M. E.), Chattanooga, Tenn.
 Hooke, Robt. (City)
 Irwin, J. W., 7½ W 9th
 Klonne, J. C., 619 Walnut
 Long, M. B., 509 W 7th
 Moe, S. B., Times bldg
 Thompson, Benjamin, Sou. Ry. office
 White, Linn, White & N. C. & St. L. Ry
 CLARKSVILLE—Marble, J. H. (City)
 Tapscott, John B.
 GREENVILLE—Rhea, J. P.
 HENDERSON—Wheatley, J. N.
 JACKSON—Campbell, F. W.
 Farrar, H. P.
 Lancaster, S. C. (City), 225 Baltimore
 Mercer, J. W.
 Merriwetber, David
 Williams, J.
 JOHNSON CITY—Molesworth, A. N.
 Phillips, J. M.
 KNOXVILLE—Brownlee, J. L., 315 W Clinch av
 Crozer, W. C., 1129 N 4th
 Metcalf, G. W., 610 S Gay
 Park, W. A. (City), City Hall
 Phillips, F. G., 1002 N B'way
 Ruoff, Wendell (M. E.)
 Waring, Charles, 308 W Clinch av
 Wilson, Elwood J. (Mining), 712 N 4th
 McMINNVILLE—Hill, I. C.
 Rowan, Stoke D. (City)
 MEMPHIS—Anthony, Jas., Randolph bldg
 Baker, Jos. M.
 Barton, C. A., Odd Fellows' bldg
 Brock, D. M.
 Chighizola, A. A., 223 Pa. av
 Connolly, M. W.
 Cook, Jas. B., Randolph bldg
 Crew, Walter E., 1178 Fowler bldg
 Dabney, A. L. (Consulting), 127 Madison
 Erion, R. N. (M. E.), 253 McLean av
 Ferguson, J. T., 736 Robeson
 Flemming, H. G.
 Hartford & Co. (Consulting), Randolph bldg
 Given, Richard A.
 Heiskell, J. M.
 Humphreys, J. H., 43 Madison
 Kilpatrick, A. F.
 O'Beirne, Edw. John (Contracting), Scimitar
 Omberg, J. A., Jr. (City) bldg
 Pharr, H. N.
 Pharr, J. S.
 Polk, Robert H.
 Reinhold, J. W. (Consulting), Randolph bldg

Richardson, R. B. (Co. Surveyor), Court-Smith, Vernon H., Station G. house
 Taylor, Wm. N., 585 McLemore av
 Watkins, Wm. S., 34 N Dunlap
 Weatherford, J. H. (Consulting), 1167
 Wood, W. L., Jr., 361 Vance Cooper av
 MURFREESBORO—Maney, Newton C.
 NASHVILLE—Blackie, G. F., N. C. & St. L. Ry
 *Brown, Chas. S. (Prof. of Mechanical Engineering, Vanderbilt Univ.), Vanderbilt Brown, G. W., 35 Carroll Campus
 Cowan, W. H., 119 N High
 Crawford, W. H. (Mining), 1st Nat'l Bank bldg
 Engineering Ass'n of the South, 1000 Broad
 Foster & Creghton, 3 Berry blk
 Hasie & Young, 79 Chamber of Commerce
 Howard, J. M., Wedgewood av & S Spruce
 Ingram & Leftwich
 Leftwich, W. M., Jr., City Hall
 Locke, C. A., 1518 McGarock
 Lyle & Bates (County Surveyors), 411 Union
 McDonald, Hunter, N. C. & St. L. Ry.
 Quinn, G. W., 104 N High
 Schuerman & Brown (Consulting C. E. & M. E.)
 Sinnot & Dyer, 421 Jackson bldg
 Smith, F. R. R., City Hall
 Southgate, W. W. & Son, 310½ Union
 Wilson, Chas. B., N. C. & St. L. Ry.
 NEW MARKET—Bartlett, John H. (Zinc)
 OLIVER SPRINGS—Butler, M. D. F.
 RIPLEY—Gudger, M. W.
 ROCKWOOD—Sylvester, Geo. E. (Mining & C. E.)
 SOUTH PITTSBURG—Clute, F. P.
 WINCHESTER—Boone, Denton

TEXAS

ATHENS—Meredith, J. T.
 AUSTIN—Andrewartha, John
 Corwin, Dennis, Temporary Capitol bldg
 Ford, Reuben W., E. 10th c Red River
 Gildart, Frank, 701 Congress av
 McFall, J. K., 95 East av
 Matthews, S. P., City Hall
 Pinckney, T. F., Temporary Capitol bldg
 Wallace, John E., Court House
 Wyard, J. R., 714 Congress av
 BAIRD—Haley, M. R.
 BALLINGER—Blanchard, C. C. F.
 Dickinson, H. E.
 BASTROP—Moncur, Cassius L.
 BEAUMONT—Ingalls, James
 BEEVILLE—Fenner, R. W.
 BELLVILLE—Cumings, George S.
 BELTON—Bigbam, R. P.
 BIG SPRINGS—Boydston, Benjamin
 Cowan, S. H.
 BRENHAM—Von Biberstein, H. R.
 BROWNSVILLE—Cocke, J. I.
 BROWNWOOD—McIntosh, W. A.
 BRYAN—Mitchell, J. P.
 BURNET—Chamberlain, T. A.
 Moses, E. J.
 CALDWELL—Dalrymple, J. G.
 CLARKSVILLE—Harris, F. N.
 CLEBURNE—Kinnard, J. D.
 COLEMAN—McElrath, J. A.
 COLLEGE STATION—*Whitlock, R. H. (Prof. Mechanical Engineering, Texas State Agr'l)
 COLORADO—Earnest, C. H.
 Holt, C. W.
 Looney, R. H.
 Shepherd, J. L.
 COLUMBUS—Jackson, D. W.
 COMANCHE—Armstrong, R. G.
 Holman, J. A.
 COOPER—Stratton, T. L.
 CORPUS CHRISTI—Blucher, C. F. H.
 Owens, F. J. & Co.
 CORSICANA—Lee, C. C.
 CROCKETT—Broxson, Enoch L.
 CUERO—Schleicher, Gustav
 DALLAS—Briggs Machinery & Supply Co. (M. E.), 191 Elm
 Brown, C. E., 204 Main
 Hopkins, Louis H., 237 Main
 Jones, Fred A., Scollard bldg
 Lane, C. R. (M. E.), 350 Elm
 Steber, F. W., 507 N Tex. Nat'l B'k bldg
 Thatcher, J. S., 301 Main
 Young & Heintz (M. E.), 181 Elm
 DEL RIO—Pierce, J. K.
 DENISON—McWillie, Richard L. (City)
 DENTON—Pierce, W. H.
 DUBLIN—Harris, J. T.
 EL PASO—Ashton, Frank
 Brodie, Walter M. (Mining)
 Canby, R. C. (Consulting)
 De Vore, E. H. (Mining)
 Fishback, Martin (Consulting Mining)

Parke, A. H.
Parker & Parker (Mining & Consulting)
Wimberly, George C. (City)
FORNEY—Lewis, P. M.
FORT DAVIS—Patterson, H. M.
FORT WORTH—Baker, Brookes (Depty. County Surveyor)
Darter, Jno. H., 711 Main
Dickson, H. M. (Asst. City Engineer), City Hall
Goodfellow, Jno. J. (County Surveyor), Court House
Hall, J. M. (City), 1300 1-2 N Main, N. Ft. Worth
Hawley, J. B. (City), City Hall
Zane-Cetti, 1005 Calhoun
FREDERICKSBURG—Schuchardt, J.
GAINESVILLE—Brozelton, S. J.
Hulen, Harvey
GALVESTON—Anderson, Tbos. J. (Consulting), 2118 Strand
Cameron, W. L. (Consulting), 2203 Church
Felt, C. F. W. (Santa Fe R. R.), Santa Fe bldg
Hartrick, E. M., Trust bldg
Hoxie, A. (Co. Surveyor), Court House
Luttrell, R. W., 709 Tremont
Riche, C. S., Trust bldg
Sias, C. A. (& City Engineer), 2205 Strand
Temple, B. M. (City), Court House
Wilson, Henry T., 1419 B'way
Young & Cohen (M. E.), 2409 P. O.
GATESVILLE—Graves, C. L.
GEORGETOWN—Battalie, I. F.
GILMER—Denton, J. I.
GOLDTHWAITE—Pesley, George
GREENVILLE—Morgan, J. H.
HALLETTSVILLE—Ballard, James
HEMPSTEAD—Elliott, B. F.
HENDERSON—Stone, W. D.
Wooley, J. M.
HENRIETTA—Watkins, R. W.
HOUSTON—Anderson, W. E., 914 1-2 Franklin
Berry, James H., Converse bldg
Bradburn, Wm. (County), Court House
Davis, James O., 1016 1-2 Congress av
Delery, W. S. & Co., Cotton Exchange
Dormant, Frank L. (City), City Hall
Gillespie, J. J., Court House
Jones, Fred. A. (Consulting M. E.), Binz bldg
Lohaus, R. A., 1301 Congress av
Matthews, Saml. P., 305 1-2 Main
McGregor, Flint, Mason bldg
Maxcy, John W. (C. E.)
Miller, I. Austin, 1015 1-2 Preston av
Opperman, Jesse, Levy bldg
Packard, Saml. E., 706 Rusk av
Rocke, Milton M., P. O. Box 232
Stimson, Arthur E., 2107 Gano
Waldo, Wilmer, Binz bldg
Whitty, Patrick, 317 1-2 Main
Wise, A. J., 915 1-2 Congress av
KAUFMAN—Barnes, W. H.
Kyser, H. W.
KERRVILLE—Doris, J. H.
LA GRANGE—Vogt, A.
LAMPASAS—Brown, Ephraim
LAREDO—De la Garzo, Cayetano
Foster, Arthur
LONGVIEW—Taylor & Marschall
Terry, E. S.
LUFKIN—McCarthy, P. A. & Son (Consulting & Designing Steam & Electric Power Plants)
McCarthy, Starnes & Co (Consulting)
MARSHALL—Bradbury, William (M. E.)
McKINNEY—Byrne & Wilson.
Noyes, C. W.
MARLIN—Hunnitt, R. S.
Porter, F. O.
MASON—Bierschwale, Charles
MERIDIAN—Weeks, J. N.
MEXIA—Roberts, H. M.
MINEOLA—Cowan, G. W.
Giles, W. M.
Newson, J. H.
MINERAL WELLS—Berry, H. M.
MOUNT PLEASANT—Dillahanty, C. L.
Riddle, I. R.
Riddle, J. G.
Turner, J. C.
NACOGDOCHES—Nelson, A. A.
ORANGE—Pinkston, J. A. (City)
PALESTINE—Hanks, J. S.
PARIS—Davis, E. E.
Skidmore, T. H.
Wright, J. H.
PEARSALL—Crittiss, A. L.
PITTSBURG—Fredric, W. W.
RIOGRANDE—Lopes, Pedro
ROCKPORT—Reeves, T. B.
ROCKWALL—Simpson, W. H. H.
SAN ANGELO—Tarver, H. B.
SAN ANTONIO—Franklin, T., Sr., 326 San Locke, W. M., 115 Fannin Pedro av
Simth, Charles P. & Co., 417 Navarro
Wyschetzki, A., 307, Matagorda
SAN DIEGO—Dix, J. J.

SAN MARCOS—Groos, Otto
SEGUIN—Erskine, A. M.
SHERMAN—Hopson, Joseph P.
STEPHENVILLE—Jackson, M. L.
SULPHUR SPRINGS—Banks, J. B.
Brashear, W. S.
Gilbert, J. L.
Tomlinson, S. G.
TERRELL—Terrell, J. L.
TEXARKANA—Hodler, P. M.
Massenburg, W. G.
Stewart, Sidney, City Hall
TYLER—Ellis, Ira
VERNON—Nabers, J. A.
VICTORIA—Ward, J. W.
WACO—Goddard, Andrew
Gurley, G. B.
WEATHERFORD—Bassett, J. M.
Carroll, Nicholas
Weitzell, R. S.
Winston, J. M.
WILLS POINT—Gibson, W. W.
Greer, W. J.
McKain, T. J.
Meredith, A. W.

UTAH.

OGDEN—Bostaph, W. H., 1331 25th
Jenkins, Washington, Utah Loan & Trust
Maguire, Don M. E. (Mining) Co. bldg
Spencer, L. B. (Consulting), Eccles bldg.
PROVO CITY—Stewart & Sons (Mining)
SALT LAKE CITY—Breckon & Davis, 117 Commercial blk
Brown & Brooks, 49 S Main
Bryant, Walter C.
Butters, Charles (Mining), Dooly bldg
Culmer, W. F. (Mining), Culmer blk
Daggett, Ellsworth (Mining), 49 S Main
Dunn, Geo. E. (Mining), Dooly blk.
Fitzhugh, Henry, 47 East 1st South
Forrester, Robert (Mining), Dooly bldg
Gemmell, R. C., Dooly bldg
Gibbs, G. A., 137 N West Temple
Gorlinski, Robt. (mining), 38 Central blk
Hanson, A. P., 26 Eagle blk
Hill, J. P. (mining), Templeton bldg
Horne, H. W., Whittington bldg
Jennings, E. P. (Mining), P. O. Box 841
Jones & Jacobs, 49 S Main
Joseph, H. S., Progress bldg
Kelsey, Louis C. (City)
Le Prohon, E. M., Atlas blk
McCartney, H. M., 161 S Main
Mathis, T. S. (mining), 49 S Main
Molson, C. A. (Mining), Dooly blk.
Neill, Jas. W. (Mining), P. O. Box 1164
Nissen, Peter (County Surveyor), 121 S State
Oglesby, M. L. (Mining), David Keith bldg
Overstrom, Gustave A., (Consulting), University of Utah
Palmer, Burton & Anderson (mining), 47 Board of Trade bldg
Paul, S. J., Progress bldg
Penrose, W. H. (mining), 18 Eagle blk
Rainsford, Ralph H. (mining), American S. & Ref. Co. Bank bldg
Robinson, G. H. (mining), Walker Bros.
Rolling, D. P. (consulting), Atlas bldg.
Smith, J. F., Jr., 49 S Main
Snow, G. W. (mining), Atlas blk
Sterling, Robt., Whittington blk
Stevenson, C. L., Atlas blk
Strange, V. P., Whittington blk
Sussmaim, Otto (mining), Atlas Block
Tanner, Wallace W. (consulting), Dooly blk.
Trent, L. C. & S. V., S. West Temple
Wilder, E. B. (mining), 159 S Main
Wilkes, C. S., City & County bldg
Wilkes, Edmund, Atlas blk
Wilson, J. W. (mining), 237 6th, East
Young, O. R., McCormick bldg

VERMONT.

BARRE—Currier, Chas. S. (City)
Smith & Walker
BENNINGTON—Beach, Chas. S., 745 Main
Rice, Edward
Sanborn, I. H.
*Scott, Olin (Prop., Bennington Machine Works)
BRADFORD—McDuffee, Henry
BRATTLEBORO—Crowell, Christie B.
Johnson, Alanson O. (M. E.)
BURLINGTON—Barbour, V. G., 96 N Prospect
Crandall, Frank H. (City), City Hall
Dormsife, J. W. (Structural Consulting)
Dow, A. R., 234 Pearl
McIntosh, H. M., City Market bldg
McInclair, Frank O., 174 Main
Woodbury, Charles L., 37 N Prospect

MONTPELIER—Coleman, Edw'd P. (M. E.)
Smith & Walker
NORTHFIELD—Andrews, G. R.
PITTSFORD—Hasseltine, H. A.
RUTLAND—Chappell, Thos. F., 14 Clement bldg
Eggleston, W. W., 23 N Main
Grimes, E. L., 9 Clement bldg
Grover, Arthur C. (City)
Lincoln Iron Works (M. E.)
Ross, Geo., 1 Merchant Row
Roys, L. E., office in depot
Wooster, Orlando, 18 Church
ST. ALBANS—Dewart, F. H.
Mason, Marshall
Warren, H. A.
ST. JOHNSBURY—Perham, J. M.
WHITE RIVER JUNCTION—Nott, H. L. (M. E.)
WINOOSKI—Nasb, V. K. (City)

VIRGINIA.

ALEXANDRIA—Dunn, E. C.
Howell, D. J.
BEDFORD CITY—Moseby, S. B. & Co.
BERKLEY—Phelps, Richard M.
BLACKSBURG—*Randolph, Lingam Strother
(Prof. Mechanical Engineering, Va. Agr'l & Mec'h'l College)
BUENA VISTA—Hurlburt, W. J.
McDowell, W. G.
CHARLOTTESVILLE—*Thornton, Wm. M. (Prof. of Applied Mathematics, Univ. of Va.)
DANVILLE—Ballou, C. A. (City)
FRONT ROYAL—Roy, G. E.
HAMPTON—Armstrong, Richard
Chambers, Girard
Semple, Edw. A.
IVY DEPOT—*Wood, Joseph L.
LEXINGTON—Carmichael, John
Hutton Engineering Co.
McDowell, W. G.
LYNCHBURG—*Gleaves, R. Taylor (Consulting)
Lewis, J. M. B., 211 9th
Rodes, Lafayette P., 813 Clay
Shaner, H. (City)
NEWPORT NEWS—Edmonds, A. B. (County Surveyor)
*Gray, John W., P O Box 703
Marye, Edw. A. (City)
Pierce, R. T., Jr.
Wagner, Adolph
Warwick Machine Co. (M. E.)
NORFOLK—Atlantic Engineering & Cons. Corp'n
(civil) Nat'l Bk. of Commerce bldg.
Brooke, Wm. T. (City), City Market bldg.
Burrow, Walter P.
Foreman, E. C., 272 Main
Haenselman, Ferdinand, Lowenburg bldg
Neff & Thompson (M. E.)
Petrie, Chas. F. (& Consulting), 234 Main
*Roberts, T. H. (Supt., M. P. N. & S. R. R.)
Ryden, Chas. M., 234 Main
Smith, Edw. H. (& Consulting), 140 Main
PETERSBURG—Dunn, Thomas C., 140 High
Rives, Thos. F.
Hayes, John W. (C. E.)
POCAHONTAS—Graham & Keller (C. E. & mining)
PORTSMOUTH—Cassell, Heber C., 434 High
*Hornung, Geo. (Gen'l Mgr., B. & S. Water Co.)
RICHMOND—*Archer, Edw. R. (Chief Eng'r, Tredegar Co. Iron Works)
Beck, Henry P., 1112 E Main
Blenner, Benj. A. (M. E.), 18 N 7th
Cameron-Tennant Machine Works (M. E.), 2404 E Main
Cutsbaw, W. E. (City), City Hall
*Delaney, Alex. (Supt. Pumping Machinery, Richmond Water Works)
Frazier, Harry (Consulting), 1001 E Main
Froebbling & Robertson (Mining), 17 S 12th
Morrison, Hugh S. (M. E.), Mutual Assurance Society bldg
Myers, E. T. D., Jr. (Consulting), Mutual Assurance Society bldg
Noland & Baskervill, Chamber of Com. bldg
Roelker, Carl J. (Consulting M. E.), 302 E Grace
Seymour, Robert B., 118 E Franklin
Trafford, Edw'd W. (Consulting), Chamber of Commerce bldg
Tyler, Jno., Jr., 1001 E Main
ROANOKE—Flickwir, D. W.
Hancke, J. E. M. (Consulting)
*Hunter, Jos. L. (Consulting M. E.), 913 Franklin rd
McIlwaine, Archibald G.
Mosby, S. B.
Wentworth, Charles C. (M. E.), 18 Day av.
Wingate, J. H. (City) S W
SALEM—Corbett, Edw. Co. (M. E.)
SALTVILLE—*Mount, Wm. Dye (Gen'l Supt., Mathieson Alkali Works)
STAUNTON—Collins & Hackett (M. E.)
Harrison, Carter H. (City)

WASHINGTON.

ABERDEEN—Jackson, R. S.
 CHEHALIS—Meylo, F. E.
 DAVENPORT—Estby, Carl
 Rockhold, Jeremiah
 DAYTON—Patrick, John
 ELLENSBURG—Anderson, E. O.
 EVERETT—Birney, J. F.
 Majors, B. C.
 Powell, O. L.
 Springer, L. A.
 Springer, S. D.
 HOQUIAM—Burrows, O. P.
 MONTESANO—Robertson, Geo.
 MOUNT VERNON—Meehan, J. W.
 NORTH YAKIMA—Arnold, Syd. W.
 OLYMPIA—Brown, F. J.
 Henry, D. S. B.
 Lemon, Millard
 PORT ANGELIS—Blackwood, Alfred
 Fitz, H. E.
 Gehrke, E. R.
 Ware, W. J.
 PORT TOWNSEND—Phillips, J. C.
 REPUBLIC—Fortman, N. J. H.
 Hammond, T. M., Jr.
 Warner, E. H.
 RITZVILLE—Koch, J. J.
 SEATTLE—Adams, F. E. (M.E.), Coleman bldg
 Anderson, Chas. M. Engineering Co., 428
 Epler blk
 Barnes & Co. (Consulting C. E. & M. E.),
 Starr-Boyd bldg
 Bellamy, H. R. (Consulting), Pacific blk
 Bowerman, J. W. (M. E.), New York bldg
 Brown, Snook & Co., 1414 2d av
 Brown, Webster, 116 Aloha
 Bryan, A. E. (Mining), Glohe blk
 Buel, C. M. (Mining), Arcade bldg
 Burrell Const. Co. (Inc.) (Consulting), Wal-
 ker bldg
 Campbell, D. M., 2018 2d av
 Chapman, G. W., 18 Scheuerman blk
 Chapman, N. W. (& Mining), 117 Cherry
 Coe & Noster, Burke blk
 Colby, C. W. (Consulting M. E.) (Hallidie
 Machinery Co.), 315 S 2d av
 Collins, C. R. (Consulting), Glohe blk
 Cotterill & Whitworth, N. Y. blk
 Cummings, Edw. W. (Consulting), D. H.
 Bank bldg
 Des Grange, J. C., 5 Hancock bldg
 Dickey, W. A. (Mining), 1225 6th av, W
 Downey, A. S., D. H. Bank bldg
 Du Bois, W. F. (Mining), 3957 Dearhorn
 Dunn, Coale & Dunn (Mining & C. E. &
 Surveyors), Alaska bldg
 Fowler, C. E. (Consulting), N. Y. blk
 Frank, W. D. (Mining), Glohe blk
 Fuller, A. E., Pacific blk
 Gage, S. M. (M. E.), Glohe blk
 Gardner & Gardner, 414 Pacific blk
 Gergy, G. O., Safe Deposit bldg
 Green, M. A. (Mining), Oriental bldg
 Hamlin, P. D., 356 17th av
 Hand, B. F. (Mining), Colman bldg
 Hanford, H. D., Bailey bldg
 Haviland, E. R., Jr., 722 Madison
 Hawkins, E. C., H. D. Bank bldg
 Hawkins, H. L., Burke bldg
 *Hefferman, John T. (Pres., Hefferman En-
 hesse, Udo., Colman hldg gine Works)
 Hill, F. A. (Mining), Mutual Life bldg
 Hoffeditz, W. L., Epler blk
 Hussey, Ernest B., D. H. Bank bldg
 Ingalls, A. O. (Consulting & Mining), N. Y.
 blk
 International Contract Co. (Consulting), N.
 Jamme, G. E. (Mining), Metropolitan bldg
 Landes, Henry (Consulting Geologist), Uni-
 versity of Wash'n
 Lee, C. F. (Mining), Colman bldg
 Lockwood, J. B. Co. (Consulting), Colman
 bldg
 McAllaster, E. L. (Consulting & M. E.),
 Pioneer bldg
 McPherson, J. L. (& Mining), Colman bldg
 Miracle, J. H. (Mining), N. Y. blk
 Owens, H. K., Alaska bldg
 Pacific Iron & Steel Works (M. E.), 929
 Ewing
 Parker, F. L. (& M. E.), N. Y. blk
 Phillips Engineering Co. (& Mining), 417
 Marion blk
 Reynolds, H. S. (M. E.), Pacific blk
 Rice, L. M. (& Mining), Pacific blk
 Robinson, H. O. (& Mining), Colman bldg
 Rodda, R. W. (Mining), 115 Marion
 Schaeffer, Geo. (M. E.), 108 James
 Scurry, Jno. G. (Ass't City), 1138 15th av
 Scurry, Wm. (Surveyor), 424 Jeff
 Shelton, L. D. W., 205 Boston blk
 Shaw, C. M. & Co. (Consulting), Colman
 Dock
 Smith, W. E., Hancock bldg
 Stoess, P. C. (Mining), Colman bldg

Talbot, P. E. (M. E.), Pacific bldg
 Thomson, R. H. (City), City Hall
 Valentine, A. L. (County Surveyor), County
 Court House
 Vulcan Iron Works (M. E.), 5th av, S
 Washington Map & Blue Print Co. (Inc.),
 Pacific blk
 Wegener, O. F. & Co., Downs blk
 White, C. L., N. Y. blk
 Whitham, R. F., 1739 13th av, S
 Wilbur, C. H. (Mining), Colonial blk
 Wolf, Fred. W. Co. (M. E.), 914 1st av, S
 Wright, P. F., Arcade bldg
 SHELTON—Shelton, J. S. W.
 Ward, G. M.
 SNOHOMISH—Leque, Peter
 Lenfest, Elmer
 Niles, H. P.
 SPOKANE—Armstrong, L. K. (Mining), Hyde
 blk
 *Breen, Jas. (Mgr. Dir. Dominion Copper
 Co.)
 Clark, A. B.
 Clarke, Roy H. (Mining), Lindelle bldg
 Gould & Gill (M. E.), 607 1st av
 Juessen, Edmund (Mining)
 Linsley, N. E. (Mining)
 Macdonald, Bernard (Mining) 1744 P. O.
 Miller, W. Clayton (Mining) Drawer
 Porter, J. M. (Mining), 14 Ex. bldg
 Thyng, W. S. (Mining), Empire State bldg
 Wetzel, John
 Worthington, Irving (Mining), Trader bldg
 TACOMA—Bartlett, Frank
 Bosworth, H. E., 811 S Yakima av
 Davis, Frank L., 818 North I
 Davis, J. T. Co. (Mining), 939 Commerce
 Drake, E. N. E.
 Eltonhead, A. L., Bernice bldg
 Fuller, H. J. (Consulting)
 Hawks, A. McL. (Hydraulic Consulting)
 McCullough, A. (Mining)
 Nicholson & Bullard, Fidelity bldg
 Noel, J. E.
 Plummer, F. G., 1219 Division av
 Railsback, H. V., 1413 Center
 Taylor, N. L.
 Thornton, George
 Wheeler, D. P., Puyallup
 White, D. H., Bernice bldg
 Wingate, Roht. (Mining), Bernice bldg
 Wolf, Arnt, 1613 South J
 Wood, Wm. J. (Mining), 742 Pacific av
 Young, Robt. (Mining), 804 South L
 VANCOUVER—Webster, R. A.
 WAITSBURG—Ingraham, D. G.
 WALLA WALLA—Clark, E. S. (City)
 Miller, G. N.
 Sayles, W. G.
 Van Valkenberg, W. G.
 WENATCHEE—Prowell, W. R.

WEST VIRGINIA.

BELINGTON—Coleman, F. A.
 CHARLESTON—*Ward, Chas. (Prop., Ward
 Engineering Works)
 CLARKSBURG—Bogges, Chas. A.
 Brady Bros.
 Britt, D. D.
 Davis, Harner J.
 Findlay, Chas. O.
 Jackson, T. M.
 Pettigrew, Thos. W.
 FAIRMONT—Brady, S. D. & Bros. (Consult-
 ing, Civil, Mining, Railroad Work, etc.,
 Specialties Examining & Developing Coal
 Lands & Designing of Coal Tipples, etc.)
 MAYBEURY—Stow, Audley H. (Mining)
 MORGANTOWN—*Emory, Fred'k L. (Prof. of
 Machs. & App. Math.) W. V. Univ.)
 *Jones, Clement Ross (Asst. Prof. Mech'l
 Engineering, W. Va. Univ.)
 PARKERSBURG—Dunbar, Jno. V. (City)
 SISTERSVILLE—Benton, E. L.
 WELLSBURG—Boyd, Willard E.
 WHEELING—Gilchrist, James, Elm Grove
 Hix & Hearne, 1400 Chapline
 Lobse, Chas. W. (City)
 Miller, E. J., Peabody bldg
 Smith, Clemence C., 30 14th
 White, A. L.

WISCONSIN.

ALMA—Buesch, John
 Kessinger, Lawrence
 ANTIGO—Borr, B. F.
 Durhac, Joseph
 McFarland, O. W.
 APPLETON—Barker, James M.
 Edwards, Nathaniel M.
 Gillett, Chas. H. (City)
 Orhison, T. W.
 Pride, Chas. B. (M. E.)

ASHLAND—Day, J. E.
 AUGUSTA—Ball, J. L.
 BARABOO—Kichoffer, W. G. (City)
 BARRON—Russell, D. A.
 BAYFIELD—Glover, D. F.
 BEAVER DAM—Livermore, L. D.
 BELOIT—*Bird, John D., 741 Church.
 Caldwell, Robert
 *Jenkins, M. L. (Supt., Fairbanks & Co.)
 Wilson, James
 CHILTON—Severn, Jacob
 DODGEVILLE—Joiner, R. L.
 EAGLE RIVER—Graham, Daniel
 EAU CLAIRE—Alderman, Chas. A. (City), 418
 ELKHORN—Child, James S Barstow
 FLORENCE—Simpson, Charles
 FOND DU LAC—Boardman, Napoleon
 Parsons, E. B.
 GRAND RAPIDS—Corcoran, Wm.
 GREEN BAY—Brauns, August, 222 N Washing-
 ton
 Carlin, Patrick H., 103 S Wash
 Hillis, Alvin L., 125 Main
 HAYWARD—Elder, J. M.
 HORTONVILLE—Briggs, William
 JANESVILLE—Brown, P. F. (City)
 Ruger, Edw.
 KENOSHA—Lothrop, Jason
 LA CROSSE—*Funk, Wm. Francis (Supt.,
 Heyse, Paul Funk Steam Boiler Works)
 *Hirshheimer, Harry J. (Vice Pres., La
 Powell, F. C. (City) Crosse Plow Co.)
 LAKE GENEVA—Beckwith, Warren
 MADISON—*Bull, Storm (Prof. Steam En-
 gineering, Univ. of Wis.)
 Conover, Allan D., Brower blk
 Hickey, John F. (City)
 *Jackson, D. C. (Prof. Electrical Engineer-
 ing, Univ. of Wis.)
 *Mack, John G. D., 609 Lake
 Marcy, W. L., Court House
 Nader, John D.
 MANITOWOC—Betz, C. C.
 Pitz, Louis (City)
 MARINETTE—McCallam, H. A. (City)
 MAUSTON—Patterson, J. D.
 MEDFORD—Urquhart, E. L.
 MENASHA—Little, E. A.
 Reid, W. W.
 MENOMONIE—Waite, D. W.
 MERRILL—Mathews, F. E. (City)
 MILWAUKEE—Austin, Samuel D., 307 Grand
 *Beck, Matthias A., 294 Greenbush
 Benzenberg, Geo. H. (Consulting), 255
 Bredel, Fred Co., 405 Keene Greenbush
 Cloos, Jacob (Consulting M. E., Complete
 Power Plants, Construction, etc.), 307
 Colles, Geo. W., 326 Grand av Grand av
 *Conway, Geo. M. (Consulting M. E.), 27
 Belvidere blk
 Coogan, J. C. (Consulting), 130 2d
 Engel, Christ (Surveyor), 301 15th
 Engel, Theo. C., 14 Wells
 Fraser-Mather Co., 667 E Water
 Geist, Jno. (Consulting), 428 Grand av
 Gruhl, John N., 470 Jefferson
 Hartman, Rudolph, 120 Wisconsin
 Hughes, Wm. C. (Surveyor), 307 Grand av
 *Johnson, Warren S. (Mgr., Johnson Elec-
 trical Service Co.), 151 Michigan
 Kirchman, Fred (& County Surveyor), Court
 House
 Milwaukee Engineering Co., 106 Mason
 Newton Engineering Co. (Consulting), 106
 Mason
 Poetsch, Chas. J. (City), City Hall
 Reinertsen, Robt. C., 144 Wisconsin
 Schneider, Fred (& Surveyor), 468 Wash'n
 Spalding, E. M., 106 Mason
 Steinhagen, Gustav, 290 3d
 *Tribe, Jas. (Allis-Chalmers Co.), Clifton
 opp Park
 Vause, James E. (& Surveyor), 106 Mason
 Wade, Chas. G., 499 B'way
 MONROE—Dodge, J. T.
 NEENAH—Hjorth, L. O. (City)
 NEW LISBON—Beebe, Y. V.
 NEW LONDON—Dixon, Fredk. H.
 Millard, A. W.
 NEW RICHMOND—Pierce, Alfred
 OCONTO—Hall, R. L.
 OSHKOSH—Leach, Harvey W. (City)
 Randall, G. H.
 PHILLIPS—Houghton, William
 Nichols, W. H.
 PLATTEVILLE—Hodge, Benj. (Mining)
 Trego, Frank H. (Operating)
 RACINE—Burlingame, Orson
 Connolly, Henry J. (City)
 Knight, S. G. (County)
 RHINELANDER—Sievernicht, Archibald
 SHEBOYGAN—Bode, Louis
 Boley, U. G. (City)
 Simpson, S. A.
 STEVENS POINT—Halladay, Frank

SUPERIOR—Banks, E. B., 265 W. 5th
 Bussell, S. E., 402 Truax blk
 Klov Dahl, Simon, 903½ Tower av
 Smith, A. K., 913 Tower av
TOMAH—Kenyon, Webster
TOMAHAWK—Chevrier, J.
WAUKESHA—Powrie, Wm.
WAUPACA—Johnson, A. W.
WAUSAU—Gowen, B. C.
 Nutter, C. W. (City)
WEST SUPERIOR—(See Superior)

WYOMING.

CHEYENNE—Bond, Fred. (State Engineer)
 Patten, H. B.
 Pease, W. D. (& County Surveyor)
 Stahl, Edw. F.
LARAMIE—Bellamy, Charles
 Buck, Ed. A. (County Surveyor)
 Burkhardt, R. W. (Mining)
 Holmes, A. T.
 Whiting, Edw.

Engineers (Consulting)

See Engineers, Architectural & Structural Consulting;
 Also Engineers, Civil, Mechanical & Mining; followed by the word consulting between name and address;
 Also Electrical Engineers & Contractors;
 Also Heating & Ventilating Engineers, Consulting;
 Also Engineers, Hydraulic;
 Also Engineers, Mill;
 Also Engineers, Sanitary.

*Engineers (Consulting, for the Supervision of Concrete Construction)

RANSOME CONCRETE MACHINERY
 Co., Dunellen, N. J. (See adv. index, end of book)

Engineers (Contracting)

(See Engineers, Civil, Mechanical & Mining, followed by the word "Contracting" between the name and address; also Engineers & Contractors, Electrical; also Engineers, Hydraulic; also Engineers, Mill; also Steel Structural Work)

Engineers (Electrical)

(See Electrical Engineers & Contractors; also Engineers, Civil, Mechanical & Mining; also Electrical Supplies.)

Engineers (Electrochemical)

Niagara Research Laboratories (Inc.), Niagara Falls, N. Y.

*Engineers (Foundry)

SMITH, J. D. FOUNDRY SUPPLY CO.,
 1581 Columbus rd, N W, Cleveland, O. (See adv. index, end of book)

*Engineers (Gas)

GAS POWER CO., 60 Wall, New York. (See adv. index, end of book)

Engineers (Heating & Ventilating)

(See Heating & Ventilating Engineers, Consulting)

Engineers (Hydraulic)

(This list does not contain all of the above Engineers; see also Engineers, Civil Mechanical & Mining; also Engineers, Mill; also Engineers, Sanitary)

ALABAMA.

BIRMINGHAM—ENGINEERING CO. OF America (Inc.) (Consulting, Superintending & Contracting), Steiner bldg. (See adv. index, end of book)

CALIFORNIA.

LOS ANGELES—Boxall, Hugh L. (Consulting), Braly bldg
 Campbell, Donald W. (Consulting), Tajo bldg
 Catey, S. F., 105 E 1st bldg
 Cobb, Edw. S. (Consulting), 608 S Main
 Friel, L., 215 Stimson bldg
 Lippincott & Parker, Braly bldg
 Purcell, G. (Consulting), Wilcox bldg
 Schuyler, J. D. (Consulting), Braly bldg
SAN FRANCISCO—Allardt, Geo. F., 420 California

Baker, Frank J., & Co., 325 Montgomery
 Bromfield, Davenport, 3 Mills bldg
 Browne, Ross E., Nevada bldg
 California Hydraulic Engineering & Supply Co., 17 Fremont

Clark, F. A., 420 California
 Cumming, Geo., & Co., 18 Fell
 Dillman & Wallace, 722 Montgomery
 Doble, Robt. McF. (Consulting), Hayward
 Harmon, Dana, Hayward bldg
 Hunt, A. M., 331 Pine
 Livermore, Norman B., & Co., Rialto bldg
 O'Shaughnessy, M. M., Crocker bldg
 Rogers, Chas. S., 120 Sutter
 Browne, Ross E., Nevada blk
 Vischer, Hubert, Flood bldg
SANTA ANA—Finley, S. H.
SANTA PAULA—Orcutt, W. H., Hardware bldg

COLORADO.

COLORADO SPRINGS—Reid, H. I.
DENVER—O'Brian & Pearl, R. R. bldg
 O'Brian & Pearl, R. R. bldg
 Ulrich, Jno. C., 1528 Champa
PUEBLO—Martin, E. P.

CONNECTICUT.

BRIDGEPORT—Hull, B. H., 1022 Main
HARTFORD—Souther, Hy., 440 Capitol
 Ayres, H. W., 66 State
MIDDLETON—Bishop, Geo. W., 129 Main
NEW HAVEN—Hill, Albert B., 82 Church
SOUTHINGTON—McKenzie, Theo. H.
WATERBURY—Cairns, Robt. A., 9 Leavenworth
 Welton & Bonnett, 77 Bank

FLORIDA.

JACKSONVILLE—Le Baron, J. Francis

GEORGIA.

ATLANTA—Hall Bros., 409 Temple Court
 Walker, A. F., Austell bldg

ILLINOIS.

BLOOMINGTON—Bell & Mellaish
 Brown, Chas. Carroll
CHESTER—Smith, Isaac A.
CHICAGO—Alvord, Jno. W. (Consulting), Hartford bldg
 Ashley, Burton J., 184 La Salle
 Cole, John A., 84 Van Buren
 Mead, D. W. (Consulting), First Natl. B'k bldg
 Morgan, Geo. Cadogan, 169 Jackson boul
 Sturtevant, Chas. F., 908 Fisher bldg
 Wheeler, W. H., & Co., Security bldg.
 Wood, Frank W., Monadnock blk
PEORIA—Maury, Dabney H. (Consulting), 129 N Jefferson

INDIANA.

ELKHART—Beardsley Gravity Dam & Construction Co.
INDIANAPOLIS—Brown, Chas., 1560 E Market
 Hainsworth, Jno. J., Commercial Club bldg
MARTINSVILLE—Philips & Goss
TERRE HAUTE—Grimes, Geo. R., 521 Ohio

IOWA.

CEDAR RAPIDS—Merridith, G. H.
 Wardle & Yeager
 Warriner, Thos. R.
 Wynn, Geo. W.
CLINTON—Iowa Engineering Co.
DES MOINES—Schreiner, B., 1445 Maple
DUBUQUE—Tschirgi, M., Jr., City Hall

KANSAS.

TOPEKA—Hinckley, H. V.
 Tweddle, Wm.

KENTUCKY.

LOUISVILLE—Butler, Pierce, Norton bldg
 Hermans, Chas. (Consulting, Water Works, etc.)
NEWPORT—Hormung, Geo.
PADUCAH—Stickney, G. F.

LOUISIANA.

NEW ORLEANS—Brown, Linus W., 741 Carondelet

MARYLAND.

BALTIMORE—Adams & Schwab (Consulting), Calvert bldg
 Kennedy, Geo. J., 1819 Appleton

MASSACHUSETTS.

BOSTON—Ambursen Hydraulic Construction Co. (Engineers & Contractors), 176 Federal
 Blake, Geo. F. Mfg. Co., 156 High
 Clark, W. L., & Co., Barristers' Hall
 Coffin, Freeman C., 53 State
 Felton, B. R., 1121 Tremont bldg
 Fuller, Frank L., 12 Pearl
 Gowing, E. H., 12 Pemberton sq
 Hammatt, E. A. W., 53 State
 Hawes, Louis E., 751 Tremont bldg
 Knowles Steam Pump Wks., 54 Oliver
 Lockwood, Green & Co., 93 Federal
 McClintock & Woodfall, 15 Court sq
 Pierce & Barnes, 7 Water
 Rice, Geo. S., & Geo. E Evans, 95 Milk
 Snow & Barbour, Tremont bldg
 Snow & Humphreys (Consulting), 85 Water
 Webber, W. O., 53 State
 Wheeler, Wm., 14 Beacon
BROCKTON—White & Wetherbee
HOLYOKE—Ellsworth & Kirkpatrick (Consulting)
 Mann, T. W.
 Tighe, Jas. L., 255 High
LAWRENCE—Sjostrom & Franklin, 316 Essex
NORTHAMPTON—Davis, E. G. & E. E.
SALEM—Metcalf & Ashton, 39 Church
SPRINGFIELD—Merrill, Geo. N. & Co. (Consulting), 292 Main

MICHIGAN.

BAY CITY—Thompson, Hy. C.
KALAMAZOO—Pierson, George S.

MINNESOTA.

MANKATO—Haynes, M. B.
MINNEAPOLIS—Coppelen, F. W., Oneida blk
 Fanning, J. T. (Consulting), 603 Kasota bldg
ST. PAUL—Loweth & Wolff, 1st Nat'l B'k bldg

MISSOURI.

KANSAS CITY—Burns & McDonnell, Postal Telegraph bldg
 Kiersted, Wynkoop, Water Works bldg
ST. LOUIS—Boyce, W. D., Engineering Co., Chemical bldg
 Bryan, Wm. H., Lincoln Trust bldg
 Ford, Owen, Security bldg
 Phillips, Hiram, 301 City Hall
 Quigley, J. B., 421 Olive
 Russell S. Bent, 417 Pine
 Stagl, Chas., Chemical bldg

MONTANA.

GREAT FALLS—Whitten, B. D., Phelps blk

NEBRASKA.

OMAHA—American Engineering Co., Bee bldg
 Rosewater, Andrew, City Hall

NEW HAMPSHIRE.

CHARLESTON—Webber, Samuel
MANCHESTER—Dudley & Doherty
 Gay, Frank A.

When writing to firms listed in this book please mention HENDRICKS' COMMERCIAL REGISTER

NEW JERSEY.

NEWARK—Field, Wm. P., 763 Broad
McMurray, Eugene A., 22 Clinton
PASSAIC—Wise & Watson

NEW YORK.

ALBANY—Judson, Wm. Plerson (Dep. State
Eng.), State Capitol
Russ, Herman H. & Sons, 121 State
BROOKLYN—(See New York City, Borough of
Brooklyn)
BUFFALO—Bassett, Geo. E., 290 Terrace
Buffalo Engineering Co., Erie Co. B'k bldg
Guthrie & Diehl, 836 Ellicott sq
Sikes, F. G. & G. R., 871 Ellicott sq
Witmer, J. F., 705 Ellicott sq
KINGSTON—Longyear, Orson C. (Consulting)

NEW YORK CITY.**Borough of Brooklyn**

BROOKLYN—Hill, W. R. (Consulting, Water
Works), 246 6th av

Boroughs of Manhattan & Bronx.

NEW YORK—Bauer, Jacob Louis, 68 B'k
House

Brinckerhoff, H. Waller, 45 B'way
Cole, Edw. S. (Consulting), 15 Park Row
Croes, J. Jas. R., 68 Broad
Du Mazuel, E. G. F., 11 Pine
Foye, Andrew E., 11 B'way
Fuertes, Jas. H., 140 Nassau
Fuller, Geo. W., 170 B'way
Gerhard, Wm. P., 33 Union sq
Greene & Greene, 11 B'way
Haygul, Chas. A., 114 Liberty
Hamshaw, F. T., 220 B'way
Hazen, Allen, 220 B'way
Heerdegen, Jno., 44 B'way
Hering & Fuller (Consulting), 170 B'way
Hydraulic Construction Co., 1 B'way
Leavitt, Chas. W., Jr., 15 Cortlandt
O'Rourke, Jno., 21 Park row
Paine, Geo. H., 32 Park pl
Phillips & Worthington, 11 B'way
Potter, Alex., 143 Liberty
Reid, Thornburn, 136 Liberty
Sanderson & Porter (Consulting), 52 William
Sanitary Engineering Co. (Consulting), 237
B'way

Stevens-Hewitt Engineering Co., 15 Park
row

Tingley, Richard H. Co., 29 B'way
Titus, Warren H., 3 Union sq, W
Tribus, Louis L., 84 Warren
Vermeule, Cornelius C., 203 B'way
Wallace, Jos. H. (Consulting), 5 Beekman
Waring, Chapman & Farquhar, 874 B'way
White, W. Henry, 62 Wall
Williams & Whitman, Fuller bldg

NIAGARA FALLS—Johnson, Wallace C.
McCulloch, Walter

POUGHKEEPSIE—Brevoort, B. H., 54 Market
ROCHESTER—Kuichling, Emil (Consulting), 209
B'way

ROME—Knight & Hopkins
Stanwix Engineering Co.

SYRACUSE—Beach, Henry T., City Hall
Hodgkins, H. C., Kirk bldg

TROY—Cary & Roemer, Times bldg
Hicks, C. E., 567 2d av

Ricketts, Palmer C., 17 1st
UTICA—Babcock, Stephen E.
Horton, Robt. E.

WHITE PLAINS—Byrnes & Darling
YONKERS—Christian, G. L.
Gould, E. Sherman

NORTH CAROLINA.

CHARLOTTE—Black, Fingal C.
Knox, H. E.

WINSTON—Ludlow, J. L.

OHIO.

BELLEFONTAINE—Ginn & Fisher
CINCINNATI—Bouscaren, G., City Hall
Layman, E. F., 32 E 3d

CLEVELAND—Kingsley, M. W., 41 Central av
Ritchie, Jas., Chamber of Commerce bldg

Roberts & Abbott Co. (Inc.), Schofield bldg
COLUMBUS—Snyder, Frank, 23 E State
Taft, J. A., 23 E State

GREENVILLE—Lucas, C. O.
MIDDLETOWN—Monjeau, C.

TOLEDO—Cook, J. D., Law bldg
Oakley, Frank T., The Spitzer
Riggs & Sherman Co. (Consulting), The
Nasby

OREGON.

PORTLAND—Cunningham, J. H., 610 Chamber
of Commerce

PENNSYLVANIA.

BRYN MAWR—Garrigues, Samuel M.
EASTON—Folwell, A. Prescott
JOHNSTOWN—Wilson & Kuhn
NEW CASTLE—Woods, F. R.
PHILADELPHIA—Albright, Chester E., 908
Cooper, Dyer, 614 N 3d Land Title bldg
Dallett, W. P., 49 N. 7th
Darrach, Chas. G., 625 Walnut
Fisher, Wager, Crozer bldg
Haupt & Franklin, Crozer bldg
Loss, H. V., North Am bldg
Penna. Engineering Co. (Hydraulic Machin-
ery), Perry bldg

Murphy, Howard, 260 S 3d
Sellers, Coleman, 1301 Stephen Girard bldg
Young, Jos. H., Crozer bldg

PITTSBURG—Davis, Lewis K., Emplre bldg
Schneller, Jacob, 516 Market
Taylor, S. A., Schmidt bldg

Wilkins, Wm. Clyde, Westinghouse bldg
READING—Dechant, Wm. H., 536 Penn
POTTSTOWN—Sands, Horatio, 245 Beach

POTTSVILLE—Clements, Frank G.
WILKINSBURG—Harlow, J. H. & Co., 701
York—York Engineering Co.

RHODE ISLAND.

NEWPORT—Waring, Chapman & Farquhar
PROVIDENCE—Artesian Well Supply Co., 180
Chase, Chas. F., 75 Westminster Bddy

Gray, Samuel M., Banigan bldg
Makepeace, C. R. & Co., 429 Butler Ex.

Sarle, O'Perry, 146 Westminster
Shedd & Sarle (Consulting)

Sheldon, F. P. & Co., 49 Westminster
Tingley, R. H., 75 Westminster

Weston, Edmund B., 86 Weybosset

SOUTH CAROLINA.

GREENVILLE—Lockwood, Green & Co.
SPARTANBURG—Ladshaw & Ladshaw

SOUTH DAKOTA.

MADISON—Smythe, W. R.

TENNESSEE.

MEMPHIS—Dabney, A. L. (Consulting)
NASHVILLE—Schuerman & Brown.

TEXAS.

AUSTIN—McDonald, John, & Sons, 706 Colo-
rado

FORT WORTH—Hall Bros.

UTAH.

SALT LAKE CITY—Hardesty, W. P., Progress
Stevenson, C. L., Atlas blk hldg

VERMONT.

BURLINGTON—Lang & Goodhue Mfg. Co. (also
Contractors for Waterworks)

WASHINGTON.

SEATTLE—Bogart-Bates Co., Pacific blk
Cassel Automatic Motor Co., D. H. Bank

TACOMA—Hawks, A. McL. bldg

WISCONSIN.

APPLETON—O'Keefe & Orbison, Engineering &
Pride, Chas. Consulting Co.

BARABOO—Kirshoffer, W. C.
BELOIT—Wheeler, W. H. & Co.

Engineers-(Industrial)

(See Engineers, Mill.)

***Engineers (Liquid Fuel)**

BEST, W. N. AMERICAN CALORIFIC
Co., 11 B'way, New York. (See adv. index,
end of book)

Engineers (Marine)

(See Architects, Naval.)

Engineers (Mechanical)

(See Engineers, Civil, Mechanical & Mining,
with the letters M. E. following their name)

Engineers (Mill)

(See also Architects & Engineers for Paper
Mills)

Baker, E. G., 3 Fletcher, Lowell, Mass.
Balderston, Chas., 411 Walnut, Philadelphia, Pa.

Biberstein, R. C., Charlotte, N. C.
Brooks, Jas. E., 45 B'way, N. Y.

Broome, Jos., 123 Liberty, New York
Buss, Edward A., 85 Water, Boston, Mass.

Carter, Harry D., Clinton, Mass.
Collier & Brown, Empire bldg., Boston Mass.

Cramer, Stewart W., Charlotte, N. C.
Davis, Seymour, 907 Walnut, Philadelphia, Pa.

Dean, F. W., 53 State, Boston, Mass.
De Bruyn Kops, J., Savannah, Ga.

Dickinson, M. H. & C. S., Real Estate Trust
bldg, Philadelphia, Pa.

Drown, F. E., 84 Elm, Pawtucket, R. I.
Dyer, David H. & Son, 7 Pocasset Bank bldg,
Fall River, Mass.

Eaton & Brownell, Smith bldg, Watertown,
N. Y.

Ellsworth & Kirkpatrick, 18 Dwight, Holyoke,
Mass.

Fraser-Mather Co., 667 E Water, Milwaukee,
Goodrich, L. F., Augusta, Ga.

Gray, Arthur F., R 932, 53 State, Boston, Mass.
Green, Samuel M., Main, Holyoke, Mass.

Griffin, Chas., 121 S Walker, Lowell, Mass.
Hall, Clifton A., 307 Broad, Providence, B. I.

Hall & Kimball (Rubber & Paper Mills, etc.),
101 Tremont, Boston, Mass.

Hardy, Geo. F. (Paper Mills, etc.), 309 B'way,
New York

Henry, William Thomas, 30 Borden hlk, Fall
River, Mass.

Herrick, H. A., Pawtucket, R. I.
Hill, Nathaniel, 228 Worthen, Lowell, Mass.

Hinds, Fred S., Essex bldg, Boston, Mass.
Holt & Schober, Provident bldg, Phila., Pa.

Hyde, Karl H., Attleboro, Mass.
Jones, E. D. & Sons Co., Pittsfield, Mass.

Kelser-Van Leer Co., Bloomington, Ill.
Kent, Willard, Longley bldg, Woonsocket, R. I.

Kitfield, Edw. H., 53 State, Boston, Mass.
Kops, J. de Bruyn, Savannah, Ga.

Ladshaw & Ladshaw, Spartansburg, S. C.
Lambert & Brooks, 27 Artizan, New Haven,
Conn.

Leach, Geo., 333 Butler Ex., Providence, R. I.
Lockwood, Greene & Co., 93 Federal, Boston,
Main, C. T., 45 Milk, Boston, Mass.

Makepeace, C. R. & Co., 429 Butler Exch.,
Providence, R. I.

Marvel, E. I., 81 Bedford, Fall River, Mass.
Milburn, Frank P., Columbia, S. C.

Moore & Smith, Worcester, Mass.
Moulton, H. L., 1215 Filbert, Phila., Pa.

**When writing to firms
whose names appear
in this book please
mention**

**HENDRICKS'
COMMERCIAL
REGISTER.**

THE OSBORN ENGINEERING CO.

OSBORN BLDG., CLEVELAND, O.

CONSULTING ENGINEERS AND FACTORY ARCHITECTS

DESIGNERS OF MANUFACTURING PLANTS. BLAST FURNACES AND CEMENT PLANTS.

INSPECTORS OF STRUCTURAL STEEL, MACHINERY, ETC.

CEMENT TESTING.

Newhall, Geo. M. Engineering Co. (Ltd.) (Paper & Pulp Mills, Sugar Refineries, Cement Plants, etc.), 136 S 4th, Phila., Pa., & 43 Cedar, N. Y.

Oliver, Moses W., 5 Albion, Lawrence, Mass.

OSBORN ENGINEERING CO., Osborn bldg, Cleveland, O., & Land Title bldg, Phila., Pa. (See adv. above)

Praray, Chas. A. M. & Co., Branigan bldg, Providence, R. I.

Pride, Chas. B., Appleton, Wis.

Robbins, O. H., Charlotte, N. C.

Sawyer, Edw., 60 Congress, Boston, Mass.

Seabury, Dwight, 12 East av, Pawtucket, R. I.

Sexton & Robbins, Charlotte, N. C.

Shand & Lafaye, Columbia, S. C.

Sheldon, Frank P. & Co., 49 Westminster, Providence, R. I.

Sirrine, J. E., Greenville, S. C.

Snow & Humphreys, 85 Water, Boston, Mass.

Spaulding, Geo. W., Woonsocket, R. I.

Tingley, R. H. Co., 29 B'way, New York

Tompkins, D. A. Co., Charlotte, N. C.

Tower, D. H. & Son, Dalton, Mass.

Twiggs Engineering & Construction Co., Leonard bldg, Augusta, Ga.

Walker, A. F., Austell bldg, Atlanta, Ga.

Wallace, Jos. H., 5 Beekman, N. Y.

Washburn, A. H., Charlotte, N. C.

Whaley & Co., Tremont bldg, Boston, Mass.

Wheeler, Runge & Dickey, Charlotte, N. C.

Wolf, Otto C. (and Brewery), 1025 Arch, Phila., Pa.

Engineers (Mining)

(See names in Engineers, Civil, Mechanical & Mining, marked Mining between their names and addresses.)

Engineers (Modernizing)

Dodge & Day (of Power & Manufacturing Plants), Drexel bldg, Phila., Pa.
Pratt & Van Winkle, 160 5th av, New York
Raeder & Wood (Plant Design, Construction & Equipment), Great Northern bldg, Chicago, Ill.

*Engineers (Power Plant)

GAS POWER CO. (Gas), 60 Wall, New York. (See adv. index, end of book)

Engineers (Reinforced Concrete)

(See Concrete Steel Construction, Reinforced.)

Engineers (Sanitary)

Adams & Schwab (Consulting), Calvert bldg, Baltimore, Md.
Albright & Mebus, 908 Land Title bldg, Phila., Pa.
Allen & Farrington, Syracuse, N. Y.
Alvord, John W., Hartford bldg, Chicago, Ill.
Ashley, Burton J., 164 Dearborn, Chicago, Ill.
Bacterial Sewer Purification Co., 149 B'way, New York
Barbour, Benj. F. P. & Elec. Co., Birmingham, Ala.

Baumeister, A., 2 Palmer, Cambridge, Mass.
Beach, Henry T., City Hall, Syracuse, N. Y.
Bell & Melliush, Eagle blk, Bloomington, Ill.
Bowditch, Ernest W., 60 Devonshire, Boston, Mass.

Bradbury, E. G. (Consulting), 85 N High, Columbus, O.

Brown, Chas. Carroll, Commercial Club bldg, Indianapolis, Ind.
Building & Sanitary Inspection Co., 76 William, N. Y.

Burns & McDonnell, Postal Telegraph bldg, Kansas City, Mo.

Cameron, Septic Tank Co., 812 Monadnock blk, Minneapolis, Minn.

Cappelen, F. W., Oneida blk, Minneapolis, Minn.

Cary & Roemer, Times bldg, N. Y.

Chapin, L. E., Canton, O.

Chase, Chas. F., 75 Westminster, Providence, R. I.

Christian G. L., Yonkers, N. Y.

City-Wastes Disposal Co., 156 5th av, N. Y.

Coffin, Freeman C., 53 State, Boston

Colby & Baker, Lincoln Trust bldg, St. Louis, Mo.

COLE, JOHN A., 1585 Old Colony

Cook, J. D., Toledo, O. bldg, Chicago, Ill.

Darling, Oscar, 21 Park row, New York

Darrach, Chas. G., 625 Walnut, Phila., Pa.

Davidson, F. E., 50 Wabansia av, Chicago, Ill.

Dickinson, Henri D. (Consulting), 123 E 23d, New York

Dudley, Arthur, 936 Elm, Manchester, N. H.

Ellsworth & Kirkpatrick, Holyoke, Mass.

Ewing, Wm. B., 1706 Marquette bldg, Chicago, Ill.

Flad, Edw., Fullerton bldg, St. Louis, Mo.

Folwell, A. Prescott, Easton, Pa.

Fuertes, Jas. H., 140 Nassau, N. Y.

Fuller, Frank L., 12 Pearl, Boston, Mass.

Fuller, Geo. W., 170 B'way, New York

Gannett, C. H., 53 State, Boston, Mass.

Gay, Frank A., 832 Elm, Manchester, N. H.

Gerhard, Wm. P., 33 Union sq W., N. Y.

Goss, C. G. H., Martinville, Ind.

Gray, Saml. M., Banigan bldg, Providence, R. I.

Guthrie & Diehl, Ellicott sq, Buffalo, N. Y.

Hawes, Louis E., Tremont bldg, Boston

Hazen, Allen, St. Paul bldg., New York

Henry, Francis M., Lumber Ex., Minneapolis, Minn.

Hering & Fuller (Sewerage & Sewage Disposal), 170 B'way, New York

Hill, Geo., 12 W 40th, New York

Hill, Quick & Allen, Equitable bldg, Baltimore, Md.

Howe & Lovell, Equitable bldg, Memphis, Tenn.

Iowa Engineering Co., Clinton, Ia.

Jeup & Moore, Indiana Trust bldg, Indianapolis, Ind.

Kiersted, Wynkoop, Water Works bldg, Kansas City, Mo.

Layman, E. F., 32 E 3d, Cinn., O.

Longyear, Orson C. (Consulting), Kingston, N. Y.

Loweth, Chas. F., 1st Nat'l Bank bldg, St. Paul, Minn.

McCarthy, P. A. & Son, Lufkin, Tex.

McClellan, Dodge, Madison, Wis.

McClintock, Jno. N., 89 State, Boston

McClintock & Woodfall, 15 Court sq, Boston, Mass.

McMurray, Eugene A., 22 Clinton, Newark, N. J.

McQuiston Bros., Butler, Pa.

Mann, T. W., Holyoke, Mass.

Merrill, Geo. N. & Co., 292 Main, Springfield, Mass.

Meyers, Geo. B., 1 Union sq. W., N. Y.

Morgan, Geo. C., 109 Jackson boul, Chicago, Ill.

Morgan, W. & Co., 230 Market, San Francisco, Cal.

Niernsee & La Motte, Columbia, S. C.

O'Flaherty, Danl. & Son, 708 Wall, Kansas City, Mo.

Olson & Wolford, 1003 A, Tacoma, Wash.

Optenberg & Sonneman, Sheboygan, Wis.

Phillips, Hiram, 301 City Hall, St. Louis, Mo.

Pierce, Richardson & Neiler (Consulting), Manhattan bldg, Chicago, Ill.

Pierson, Geo. S., Kalamazoo, Mich.

Potter, Alex., 143 Liberty, New York

Rafter, Geo. W., Rochester, N. Y.

Rice, Jno. A., 79 Milk, Boston

Rice, Walter P., Engineering Co., Soc. for Sav. bldg, Cleveland, O.

Riggs & Sherman Co. (Consulting), The Nasby, Toledo, O.

Rosewater, Andw., 401 City Hall, Omaha, Neb.

Sanitary Engineering Co. (Consulting), 237 B'way, New York

Sarle, O. Perry, 142 Westminster, Providence, R. I.

Shields, W. S., Marquette bldg, Chicago, Ill.

Stanley, H. J., City Hall, Cinn., O.

Stewart, Jas. A., Traction bldg, Cincinnati, O.

Stickney, G. F., Paducah, Ky.

Stoddard, G. F., 199 Chestnut, Lynn, Mass.

Strong, Abner D., Ashtabula, O.

Strong, Wilson B., Atlanta bldg, Washington, D. C.

Sutton, Frank (Consulting), 91 Wall, New York

Todd, Hugh, 146 Spring, Los Angeles, Cal.

Tucker, Wm. C., 156 5th av, New York

Van Emburgh, H. C., Plainfield, N. J.

Vermeule, Cornelius C., 203 B'way, N. Y.

Wade, Frank E., Sheldon, Ia.

Wardle & Yeager, Cedar Rapids, Iowa

Waring, Chapman & Farquhar, 374 B'way, New York

Warriner, Thos. R., Cedar Rapids, Ind.

Webster, Albert L. (Consulting), 82 Wall, New York

Weston, Edmund B., 86 Weybosset, Providence, R. I.

Wheeler, Wm., 14 Beacon, Boston, Mass.

Whittet, Bartlett & Co., 59 Main, Buffalo, N. Y.

Williams, Proctor & Potts (Inc.), 17 Battery pl, New York

Wilkins, W. G. Co., Westinghouse bldg., Pittsburgh, Pa.

Wilson, Harris, & Richards, Drexel bldg, Phila., Pa.

Wingate, Chas. F., 136 Liberty, New York

Winters, Edw. E. (Sewage Disposal), Bensen bldg, Albany, N. Y.

Wise & Watson, Passaic Nat'l Bank bldg, Passaic, N. J., & Rutherford, N. J.

Witmer, J. F., 64 Ashland, Buffalo, N. Y.

Woodbridge, S. Homer (Inc.), 551 Boylston, Boston, Mass.

Wood, Frank W., Monadnock blk, Chicago, Ill.

Woods, A. R., New Castle, Pa.

Engineers' Bulletin

Handlan-Buck Mfg. Co. (Kemp's), 212 N 3d, St. Louis, Mo.

Engineers' Supplies, Etc.

(See the Specific Article Wanted.)

(For Dealers in Engineers' Specialties see Mill & Factory Supplies; also Steam Fitters' Supplies.)

Engines

NOTE—In order to avoid duplications when addressing Engine Mfrs., address "Engines (Automobile)," "Engines (Steam)" and "Engines (Gas & Gasoline)" only, as all other Engine Lists are duplications of the above.

Engines (Air)

(See Engines, Compressed Air)

Engines (Alcohol)

Badger, Gas. & Gasoline Engine Co., Kansas City, Kan.
Callahan, W. P. & Co., 901 E. 3d, Dayton, O.
Grant Mfg. & Machine Co. (for Pumping), Bridgeport, Conn.
MARINE ENGINE & MACHINE CO., 126 Liberty, New York. Works: Harrison, N. J. (See adv. index, end of book)

Engines (Artesian Well)

(See Pumps, Artesian Well.)

Engines (Automatic)

(See Engines (Steam) with the word "Automatic," etc., following name.)

Engines (Automobile)

Albrecht Mfg. Co. (Gasoline), Columbus, Ga.
American Die & Tool Co. (Gasoline), Reading, Pa.
American Gasoline Motor Co., Baldwinsville, N. Y.
American & British Mfg. Co., Providence, R. I., & Bridgeport, Conn.
Auto Engine Works (Gasoline), 427 Rice, St. Paul, Minn.
Beaver Mfg. Co. ("Beaver"), 237 Oregon, Milwaukee, Wis.
Beilfuss Motor Co., The (Gasoline), Lansing, Mich.
Beverly Mfg. Co. (Gasoline), Beverly, Mass.
Boss Knitting Machine Works (Steam), Reading, Pa.
Brennan Mfg. Co. (Gasoline), Syracuse, N. Y.
Brownell-Trebert Co. (Gasoline, 34-H. P.), 407 St. Paul, Rochester, N. Y.
Brown-Talbot Machinery Co. (Gasoline), Old South bldg, Boston, Mass.
Clark, Edw. S. (Steam), 272 Freeport, Boston, Mass.
Clinton, Walter R., 34 Elm, West Haven, Conn.
Columbus Screw & Machine Co. (Gasoline), 244 Kaiser, Columbus, O.
Crouch, Chas. P. & Co. (Gasoline), 472 Carroll av, Chicago, Ill.
Davis Mfg. Co. ("Davis"), 935 30th, Milwaukee, Wis.
Fast Machine & Tool Works (Gasoline), 1061 29th av, Milwaukee, Wis.
Forsyth, W. & Son (Gasoline), Lynn, Mass.
Funke, A. H. ("Kelecom" Gasoline), 83 Chambers, New York
Globe Machine & Stamping Co. (Gasoline), Cleveland, O.
Hartford Marine & Auto Co. (Gasoline), 25 Elliott, Boston, Mass.
Hatcher Auto Parts Co. (Gasoline), The Viaduct, Cleveland, O.
Herschell-Spillman (Gasoline), W. Towanda, N. Y.
Hewitt Motor Co. (Gasoline), 6 E 31st, New York
Hill, R. S. (Gasoline), Detroit, Mich.
Hoffman, W. Motor Works (Gasoline), 1253 N Halsted, Chicago, Ill.
Houle, A. J., Motor Works (Gasoline), 58 S East st., Holyoke, Mass.
Ideal Machine Works, 255 39th, Brooklyn, N. Y.
Illinois Automobile Parts Co. ("Holtz"), Peoria, Ill.
Kelm, Jno. R. (Steam), Kensington av & Erie R. R., Buffalo, N. Y.
Kilby Mfg. Co., 1319 Lake, Cleveland, O.
Kirkham Motor Cycle Mfg. Co. ("Kirkham" Gasoline), Bath, N. Y.
Kowalsky Engine Co. (Gasoline), Verona, Pa.
Lamson, E. F. (Gasoline), Abington, Mass.
Lear, Oscar Auto Co. (Gasoline), Columbus, O.
Mason Regulator Co. (Steam & Gasoline), 158 Summer, Boston, Mass.
Merkel Motor Co. (4-Cylinder, Air Cooled & Water Cooled Gas & Gasoline), 1095 26th av, Milwaukee, Wis.
Milwaukee Motor Co. (4-Cylinder Gasoline), 615 Clybourn, Milwaukee, Wis.
Mitchell Motor Co. ("Mitchell" Gasoline), Racine, Wis.
Model Gas Engine Works (Double Opposed, Air Cooled & Water Cooled, Gasoline), Peru, Ind.

Motor & Mfg. Works Co. (Gasoline), Ithaca, N. Y.
Muncie Auto Parts Co. (Gasoline), Muncie, Ind.
Myers, A. J. ("Auto" Imported), 1591 B'way, New York
Neer Auto. Engine Co. (Gasoline), 25 W. Russell, Columbus, O.
Neustadt Auto & Supply Co. (Gasoline & Steam), 826 S 18th St. Louis, Mo.
Northway Motor & Mfg. Co. (Gasoline), Maybury & Hancock avs., Detroit, Mich.
Ofeldt, F. W. & Sons (Steam), Nyack, N. Y.
Reeves Pulley Co. (Gasoline), Columbus, Ind.
Rochester Machine Tool Works, 3 Frank, Rochester, N. Y.
Ross & Kramer (Gasoline), 5607 S Halsted, Chicago, Ill.
Sandusky Foundry & Machine Co. (Gas & Gasoline), Sandusky, O.
Schilling, C. R., 810 N Main, St. Louis, Mo.
Seitz, F. A. Co. (Gasoline), 149 Freylinghuysen av., Newark, N. J.
Shipman Mfg. Co. (Gasoline), Sunbury, Pa.
Smith, A. O. Co. (Gasoline, 4-Cycle), Milwaukee, Wis.
Speed Changing Pulley Co. ("Carrico," 18-20 h. p., 4-Cylinder, 4-Cycle, Air Cooled Gasoline), Indianapolis, Ind.
Sterling Engine Co. (Gasoline), 131 Grant, Buffalo, N. Y.
Streit, A. Machine Co. (Gasoline), 1108 Harrison av., Cincinnati, O.
Sturtevant, B. F. Co., Hyde Park, Mass.
Torbenson Motor Co. (Gasoline), Bloomfield, N. J.
Watertown Motor Co. (S. F. Bagg, Prop.), Watertown, N. Y.
Westerfield Motor Co. (Gasoline), Anderson, Ind.
Western Motor Co. (Gasoline), Logansport, Ind.

Engines (Beating)

CURRIER, CYRUS & SONS (also Washing), Newark, N. J. (See adv. index, end of book)
Dayton Globe Iron Works Co. (for Paper Mills), Dayton, O.
Dilts Machine Works, Fulton, N. Y.
Holyoke Mach. Co., Holyoke & Worcester, Mass.
Jones, E. D. & Sons Co., Pittsfield, Mass.
Poole, J. Morton Co., Wilmington, Del.
Pusey & Jones Co., Wilmington, Del.

Engines (Blowing)

ALLIS-CHALMERS CO. (Horizontal or Vertical), Milwaukee, Wis. (See adv. index & branch offices, end of book)
American Ship Building Co., Cleveland, O.
BUCKEYE ENGINE CO., Salem, O. (See adv. index, end of book)
Builders' Iron Foundry, Providence, R. I.
Eller & Stowell Co., Milwaukee, Wis.
Canton-Hughes Pump Co., Canton, & Cleveland, O.
Heisler, C. L., Mfg. Co., St. Mary's, O.
Macbeth Iron Co., Winslow & Center, Cleveland, O.
Mesta Machine Co., Pittsburgh, Pa.
Morris, I. P. Co., Beach & Ball, Phila., Pa.
National Foundry & Mach. Co., Louisville, Ky.
Perrin, Wm. R. & Co., 1500 46th, Chicago, Ill.
Platt Iron Works Co., Dayton, O., & 100 B'way, New York
Power & Mining Machinery Co., 52 William, New York. Works: Cudahy, Wis.
Roots, P. H. & F. M. Co., Connorsville, Ind.
Sirocco Engineering Co. ("Sirocco"), Weststreet Bldg., New York
Southwark Foundry & Machine Co., Phila., Pa.
Tod, Wm. Co., Youngstown, O.
Weimer Machine Works Co. (30 to 2000 h. p.), Lebanon, Pa.
WELLMAN-SEAEVER-MORGAN CO., Cleveland, O., & Akron, O. (See adv. index, end of book)
Wells, F. C. (Est. of), 116 S. Clinton, Chicago, Ill.
WESTINGHOUSE MACHINE CO., The, Pittsburgh, Pa.
Wisconsin Engine Co., Corliss, Wis.

*Engines (Bridge Erecting)

AMERICAN HOIST & DERRICK CO., St. Paul, Minn. (See adv. index & branch offices, end of book)
Bacon, Earle C., 26 Cortlandt, New York
BYERS, JNO. F. MACHINE CO., Ravenna, O. (See adv. index, end of book)
FLORY, S. MFG. CO., Bangor, Pa. (See adv. index, end of book)
LAMBERT HOISTING ENGINE CO., 115 Poinier, Newark, N. J. (See adv. index & branch offices, end of book)
LIDGERWOOD MFG. CO., 96 Liberty, New York, & Old Colony bldg, Chicago, Ill. (See adv. index & branch offices, end of book)

MEAD-MORRISON MFG. CO., Cambridge (Boston), Mass. (See adv. index & branch offices, end of book)
MONIGHAN'S MACHINE WORKS, 813 Carroll av, Chicago, Ill. (See adv. index, end of book)
MUNDY, J. S., 22 Prospect, Newark, N. J. (See adv. index & branch offices, end of book)
NATIONAL HOISTING ENGINE CO., Harrison, N. J. (See adv. index & branch offices, end of book)
SHAW, WILLIS, 171 La Salle, Chicago, Ill. (See adv. index, end of book)

Engines (Chemical)

(See Fire Engines, Chemical; also Fire Extinguishers)

Engines (Compound)

ALLIS-CHALMERS CO. (Horizontal or Vertical Tamden & Cross), Milwaukee, Wis. (See adv. index & branch offices, end of book)
Atlas Engine Works, 19th & Martindale av., Indianapolis, Ind.
Erie City Iron Works (4-Valve Tandem), Erie, Pa.
Harrisburg Foundry & Machine Works (Single Cylinder, as well as Tandem & Cross Compound), Harrisburg, Pa.
U. S. Rapid-Fire Gun & Power Co. ("Francke" Four Ported Steam), Derby, Conn.

Engines (Compressed Air)

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)
Dake Engine Co., Grand Haven, Mich.
Empire Engine & Motor Co. ("Empire" Hoisting, etc.), Orangeburg, N. Y.
INGERSOLL-RAND CO. (for Cranes), 11 B'way, New York. (See adv. index & branch offices, end of book)
Leyner, J. Geo. Engineering Works Co., Littleton, Col.
Pilling Air Engine Co., Detroit, Mich.
STANDARD PNEUMATIC SPRAY CO., 500 5th av, New York. (See adv. index, end of book)

Engines (Corliss)

ALABAMA.

BIRMINGHAM—Hardie Tynes Mfg. Co.

CALIFORNIA.

SAN FRANCISCO—Golden State & Miners' Iron Work
MINNEAPOLIS STEEL & MACHINERY CO. ("Twin City"), 633 Monadnock bldg. (See adv. index, end of book)
Union Iron Works Co. (100 to 3000 h. p.)

COLORADO.

DENVER—**MINNEAPOLIS STEEL & MACHINERY CO.** ("Twin City"), 313 Exchange bldg. (See adv. index, end of book)

CONNECTICUT.

BRIDGEPORT—American & British Mfg. Co.
NEW BRITAIN—New Britain Machine Co.
NEW HAVEN—Twiss, N. W.

ILLINOIS.

CHICAGO—Featherstone Foundry & Machine Co., 303 Railway Ex
MINNEAPOLIS STEEL & MACHINERY CO. (Cavanaugh-Darley Co., Rep.), 21-25 Plymouth ct. (See adv. index, end of book)
GALESBURG—Frost Mfg. Co. (30 to 900 h. p.)
JOLIET—Bates Machine Co. (20 to 600 h. p.)
QUINCY—Quincy Engine Works

INDIANA.

EVANSVILLE—Hellman Machine Works
FORT WAYNE—Bass Foundry & Machine Co. (50 to 2,000 h. p.)
INDIANAPOLIS—Atlas Engine Works

IOWA.

BURLINGTON—Murray Iron Works Co.
DAVENPORT—Whitehead Machinery Co.

KANSAS.

KANSAS CITY—Strait, H. N. Mfg. Co. ("Monarch" Simple Compound, Horizontal & Vertical, High Duty)

LOUISIANA.

NEW ORLEANS—**MINNEAPOLIS STEEL & Machinery Co.** ("Twin City"), 417 Hennen bldg. (See adv. index, end of book)

MASSACHUSETTS.

FITCHBURG—Brown, C. H. Engine Co.
Fitchburg Steam Engine Co.

MICHIGAN.

BATTLE CREEK—Nichols & Shepard Co.
SAGINAW—Bartlett, A. F. & Co. (50 to 1,000 h. p.)

MINNESOTA.

MINNEAPOLIS—**MINNEAPOLIS STEEL & Machinery Co.** ("Twin City"). (See adv. index, end of book)

MISSOURI.

KANSAS CITY—**MINNEAPOLIS STEEL & Machinery Co.** ("Twin City"), 130 W. 11th. (See adv. index, end of book)
ST. LOUIS—Fulton Iron Wks (30 to 5000 h.p.)
Ramming, John Mach. Co., 300 S Main
St. Louis Iron & Machine Works (Single, Tandem & Cross Compound, Heavy Duty & Girder Frame, 50 to 3,000 h. p.), 126 Chouteau av
South St. Louis Foundry Co., 7514 S B'way

NEBRASKA.

OMAHA—**MINNEAPOLIS STEEL & Machinery Co.** ("Twin City"), 1212 Harney. (See adv. index, end of book)

NEW JERSEY.

HOBOKEN—Consolidated Iron Works
NEWARK—Hewes & Phillips Iron Works (50 to 2,000 h. p.)
Watts-Campbell Co. (40 to 1,000 h. p.), 298 Ogden

NEW YORK.

FISHKILL ON THE HUDSON—Fishkill Landing Machine Co. (25 to 1,000 h. p.)
NEWBURGH—Newburgh Ice Machine & Engine Co.
NEW YORK—York Mfg. Co. (Ltd.), (of York, Pa.), 18 Park pl
TROY—Knowlson & Kelly (40 to 2000 h. p.), 90 River
WATERTOWN—Watertown Engine Co. (Simple, Compound & Triple Expansion). (300 to 1500 h p)

OHIO.

CINCINNATI—Lane & Bodley Co. (50 to 1000 h. p.)
CLEVELAND—**WELLMAN-SEEVER-Morgan Co.** ("Akron," 30 to 2000 h. p.). (See adv. index, end of book)
HAMILTON—Hoooven, Owens Rentschler Co. (30 to 5000 h. p.)
IRONTON—Ironton Engine Co.
MASSILLON—Russell Engine Co.
MOUNT VERNON—Cooper, C. & G. Co. (20 to 1200 h. p. Heavy Duty)
YOUNGSTOWN—Tod, Wm. Co.
ZANESVILLE—Griffith & Wedge Co. (The Ohio)

PENNSYLVANIA.

CHESTER—Wetherill, Robt. & Co. (25 to 2000 h. p.)
ERIE—Ball Engine Co. (Horizontal & Vertical), 300 to 1200 h. p.)
Nagle Engine & Boiler Works ("Nagle")
HARRISBURG—Harrisburg Foundry & Machine Works ("Fleming," 4-Valve Automatic)
LEBANON—Weimer Machine Works Co.
PHILADELPHIA—Southwark Foundry & Machine Co. ("Porter-Allen")
PITTSBURG—Hogg, Geo. A., Iron & Steel Foundry Co. ("Aetna"), 24th & A. V. R'y
Mesta Machine Co.
MINNEAPOLIS STEEL & MACHINERY Co. ("Twin City"), 1007 Bessemer bldg (See adv. index, end of book)
WESTINGHOUSE MACHINE CO., The, Westinghouse bldg
READING—Reading Iron Co.
SCOTTDALE—Scottdale Foundry & Machine Co.
WAYNESBORO—Frick Co. ("Eclipse")
YORK—York Mfg. Co. (Ltd.)

RHODE ISLAND.

PROVIDENCE—American & British Mfg. Co.
Harris, Wm. A. Steam Engine Co. (Cross & Compound Condensing & Triple Expansion, etc.)
Providence Engineering Works ("Rice & Sargent")

TENNESSEE.

JACKSON—Southern Eng. & Boiler W'ks (Inc.)

TEXAS.

EL PASO—**MINNEAPOLIS STEEL & Machinery Co.** ("Twin City"), 505 Guaranty Trust bldg. (See adv. index, etc.)

UTAH.

SALT LAKE CITY—**MINNEAPOLIS Steel & Machinery Co.** ("Twin City"), 324 Dooley blk. (See adv. index, etc.)

WASHINGTON.

SEATTLE—**MINNEAPOLIS STEEL & Machinery Co.** ("Twin City"), 338 Globe bldg. (See adv. index, etc.)

WISCONSIN.

CORLISS—Wisconsin Engine Co. (Heavy Duty, up to 800 H. P.)
MILWAUKEE—**ALLIS-CHALMERS CO.** (See adv. index, etc.)

Filer & Stowell Co.
Nordberg Mfg. Co.
VILTER MFG. CO. (30 to 1000 h. p.) (See adv. below)

Engines (Deck)

Chase Machine Co. (Single & Double Geared), 111 Elm, Cleveland, O.
Gillie Engine & Machine Co., Tonawanda, N. Y.
Superior Iron Works (Three Drum, etc.), Superior, Wis.

Engines (Deep Well Pumping)

American Steam Pump Co., Battle Creek, Mich.
AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)
Cook-Well Co., St. Louis, Mo. (book)
LAMBERT HOISTING ENGINE CO., Main Office and Works, 115-121 Poinier, Newark, N. J. (See adv. index & branch offices, end of book)
Scott Valve Co., 231 Randolph, Chicago, Ill.
Union Steam Pump Co., Battle Creek, Mich.
Weinman Machine Works, Columbus, O.

Engines (Direct Connected & Belted)

(See also Generators, Electric Light; also Generators, Power)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)
American Engine Co., Bound Brook, N. J.
Ames Iron Works, Oswego, N. Y.
Ball & Wood Co., 17 Battery pl, New York, & Elizabeth, N. J.
BUCKEYE ENGINE CO., Salem, O. (See adv. index, end of book)
Erie Mfg. & Supply Co., Erie, Pa.
Harrisburg Fdry. & Mach. Wks., Harrisb'g, Pa.
Ide, A. L. & Sons, Springfield, Ill.
Knowlson & Kelly, Troy, N. Y.
Lane & Bodley Co., John & Water, Cincinnati, O.
Lawrence Machine Co., Lawrence, Mass.
McIntosh, Seymour & Co., Auburn, N. Y.
MINNEAPOLIS STEEL & MACHINERY Co., Minneapolis, Minn. (See adv. index & branch offices, end of book)
Murray Iron Works Co., Burlington, Ia.
New York Safety Steam Power Co, 114 Liberty, New York
Noye Mfg. Co., Buffalo, N. Y.
Ridgway Dynamo & Engine Co., Ridgway, Pa.
Shepherd Engineering Co., Franklin, Pa.
Skinner Engine Co., Erie, Pa.
Southern Engine & Boiler Works (Inc.), Jackson, Tenn.
Stickney, Chas. A. Co. (Gas & Gasoline), St. Paul, Minn.
Sturtevant, B. F. Co., Hyde Park, Mass.
U. S. Rapid-Fire Gun & Power Co. ("Francke" Four Ported Steam), Derby, Conn.

Engines (Distillate)

Badger Gas & Gasoline Engine Co., Kansas City, Kan.
FAIRBANKS, MORSE & CO., Franklin & Monroe, Chicago, Ill. (See adv. index & branch offices, end of book)
Reeves Bros., Columbus, O.
Root & Van Dervoort Engineering Co., East Moline, Ill.

***Engines (Drawbridge)**

LIDGERWOOD MFG. CO., 96 Liberty, New York & Old Colony bldg, Chicago (See adv. index & branch offices, end of book)
MEAD-MORRISON MFG. CO., Cambridge (Boston), Mass. (See adv. index & branch offices, end of book)

***Engines (Dredging)**

FLORY, S. MFG. CO., Bangor, Pa. (See adv. index, end of book)
LAMBERT HOISTING ENGINE CO., Main Office & Works, 115-121 Poinier, Newark, N. J. (See adv. index & branch offices, end of book)
LIDGERWOOD MFG. CO., 96 Liberty, New York, & Old Colony bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
MEAD-MORRISON MFG. CO., Cambridge (Boston), Mass. (See adv. index & branch offices, end of book)
MONIGHAN'S MACHINE WORKS, 813 Carroll av, Chicago, Ill. (See adv. index, end of book)
MUNDY, J. S., 22 Prospect, Newark, N. J. (See adv. index & branch offices, end of book)
NATIONAL HOISTING ENGINE CO., Harrisou, N. J. (See adv. index & branch offices, end of book)
SHAW, WILLIS, 171 La Salle, Chicago, Ill. (See adv. index, end of book)
Toledo Foundry & Machine Co., Toledo, O.



THE VILTER MFG. CO. 1046 CLINTON STREET
MILWAUKEE, WIS.

CORLISS ENGINES, BOILERS, ETC.

ICE MAKING AND REFRIGERATING MACHINERY

OUTFITS FOR BREWERS AND BOTTLERS

*Engines for Fan Driving, Etc.

GREEN FUEL ECONOMIZER CO.,
Matteawan, N. Y., & 1218 West Street bldg,
New York. (See adv. index & branch offices,
end of book)

Engines (Gas & Gasoline)

(See also Engines, Gasoline, Marine)

ALABAMA.

BIRMINGHAM—White-Blakeslee Mfg. Co. (Gas & Gasoline)

CALIFORNIA.

FRESNO—Central California Machine Works (Inc.) (Gas)

LOS ANGELES—**FAIRBANKS, MORSE** & Co. (Gas & Gasoline for All Purposes), 136 Los Angeles. (See adv. index, end of book)

Luitwieler Pumping Engine Co. (Gas & Gasoline), 405 N Main

Smith, S. J., Machine Co. (Gasoline)

Stearns Gas Engine Works (Gas)

Union Gas Engine Co. (Gas & Oil)

Western Gas Engine Co. (Gas)

SAN FRANCISCO—Bailey-Raymond Machine Works (Gas & Oils), 17 Fremont

Corliss Gas Engine Co. (Stationary & Marine), 227 Folsom

Doak Gas Engine Co. (Gas), 8th & Irvin

Economist Gas Engine Co. (also Crude Oil), 519 Howard

FAIRBANKS, MORSE & CO. (Gas & Gasoline. For All Purposes), 310

Market. (See adv. index, end of book)

Garratt, W. T. & Co. (Inc.), 142 Fremont

Golden State & Miners' Iron Works (Gas & Gasoline), 231 1st

Hawkins Mfg. Co., 300 Post

Henshaw, Bulkley & Co., 219 Spear

Hercules Gas Engine Works (Gas & Gasoline), 603 Mission

Hicks, Jas. L. (Gas, etc.), 667 Mission.

Imperial Gas Engine Co. (Gas), 60 Clementine

Jackson, Byron Machine Works (Gas & Gasoline), 411 Market

Ohmen Engine Works, 17th & Capp

Schilling, Adam & Sons (Gas & Gasoline), 211 Main

Standard Gas Engine Co. (Gas)

Swain Hadwen Mfg. Co. (Gas & Gasoline), 92 7th

Union Gas Engine Co. ("Union"), 244 1st

Union Iron Works, Potrero

Webber & Richer Iron Works (Gas), 103

Woodin & Little (Gas & Gasoline), 534

SAN LEANDRO—Best Mfg. Co. (Gas, Gasoline & Oil)

STOCKTON—Samson Iron Works (Gas)

Stockton Gas Engine Co. (Gas)

COLORADO.

DENVER—**FAIRBANKS, MORSE & CO.** (Gas & Gasoline for All Purposes), 1600

17th. (See adv. index, end of book)

Finch Gas Engine & Machine Works, 1360

11th

CONNECTICUT.

BRIDGEPORT—American & British Mfg. Co. (Gas or Gasoline in Quantities Only)

Automatic Machine Co. (Marine)

Bridgeport Motor Co. (Gasoline Motors)

Grant Mfg. & Machine Co. (for pumping).

Hitchcock Gas Engine Co. (Marine Gasoline)

Royal Equipment Co. ("Royal" Gasoline, 4-Cycle)

Wheeler Engine Co. (Gas & Gasoline)

CENTRE BROOK—Connecticut Valley Mfg. Co. (Gasoline Marine)

COS COB—Palmer Bros. (Gasoline)

DERBY—Housatonic Motor & Machine Co. (Marine Gasoline)

FAIRFIELD—Fairfield Motor Co. ("Bull pup")

HARTFORD—Gray & Prior Machine Co. (Hartford Engine Works, "Hartford")

MIANUS—Mianus Motor Works.

MIDDLETOWN—Hubbard Motor Co. (2 & 4 cycle)

MYSTIC—Lathrop, J. W. (Stationary & Marine, 1½ to 25 h. p.; Gas & Gasoline)

NEW BRITAIN—Kinne, Wm. A.

NEW HAVEN—Miner & Peck Mfg. Co. (Gas & Gasoline)

NEW LONDON—Hasbrouck Motor Works (Inc.) 4 Cycle Marine, etc., Gasoline)

New London Gas & Electric Co. (Marine)

New London Motor Co. (Gasoline) Gas

NORWALK—Barker, C. L. (Gas)

SEYMOUR—Church, Stephen B. (Gas & Gasoline)

STAMFORD—Fox, Charles (Gas & Gasoline)

Munch, George (Gasoline)

Stamford Motor Co. (Inc.), ("Snecker" Gasoline)

STONY CREEK—Beach, O. B. (Gas & Gasoline)

TORRINGTON—Progressive Mfg. Co. ("Eagle" Gasoline Explosive Type, 2 & 4 Cycle, 1 to 20 h. p.)

DELAWARE.

WILMINGTON—Delaware Machine Works (Gasoline)

Heinel, H. & Co. ("Diamond" 4 cycle)

Stowe Mfg. Co. (Marine Gasoline)

ILLINOIS.

AURORA—**AMERICAN WELL WORKS** (Gasoline) (See adv. index, end of book)

BATAVIA—Challenge Co. (Gasoline)

Snow Mfg. Co. (Gasoline)

CHICAGO—Alexander, James (Gas), 72 W. Monroe

Anderson, Carl Co., Huron n w cor Kingsbury

Automobile Engineering & Power Co. ("Danielson" 3 to 25 h. p.), 5836 Center av

Caldwell, H. W. & Son, Western av, bet 17th & 18th

Cavanaugh & Darley (Gas), 23 Plymouth pl.

Chicago Water Motor & Fan Co. ("Backus"), 22 S Canal

Colborne Mfg. Co. (Gas), 35 Indiana

Continental Engine Co., 279 Dearborn

Crouch, Chas P. & Co. (Gasoline), 484 Carroll av.

FAIRBANKS, MORSE & CO. (Gas & Gasoline for All Purposes), cor. Monroe & Franklin. (See adv. index, end of book)

Holliday Mfg. & Engineering Co. (Gas), 160 Bunker

International Harvester Co. of America (Gasoline, Horizontal, Vertical, Pumping, Portable, etc.), 7 Monroe

Kling Bros. (Gas & Gasoline, 2 to 40 h. p.), 287 Hawthorne av.

Lammert & Mann (Gas & Gasoline), 153 S Jefferson

Latham Machinery Co., 199 S Canal

McDonald, A. H. (Gas), 36 W. Randolph

Murray, W. B. (Gas & Gasoline), 1253 Milwaukee av

National Meter Co. ("Nash" Gas & Gasoline), 318 Dearborn

Plunket, James E. (Gas), 119 Wash'n. Boul.

Skillin & Richards Mfg. Co., 147 Fulton

Smith Mfg. Co. (Gasoline), 158 E Harrison

Strang Engine Co. (Double Acting), 140 Dearborn

Swain Engine Co. (Gas), 140 W Lake

Temple Pump Co. (Gasoline, 2 to 10 h. p.), 27 W 15th place

United Pump & Power Co., Old Colony bldg.

Webster Mfg. Co. Vertical 3½ & Horizontal 4 to 10 h. p.), 1075 W 15th

Witte Gas & Gasoline Engine Co. (Gas & Gasoline), 47 S Canal

EAST MOLINE—Root & Van Dervoort Engineering Co. (Gas & Gasoline)

FREEPORT—Freeport Gas Machine Co. (Gas)

Stover Engine Works (Gasoline)

HAVANA—Havana Mfg. Co. ("Havana," "Red & Ready")

JOLIET—Buckeye Engine & Foundry Co.

KEWANEE—**KEWANEE WATER SUPPLY** Co. (See adv. index, end of book)

MOLINE—Moline Pump Co. (Gas, 2 to 7 h. p.)

NORTH CHICAGO—North Chicago Machine Co. (Gas)

PEORIA—Illinois Automobile & Parts Co.

PERU—Brunner, Chas. ("Holtz")

QUINCY—Central Iron Works (Gas & Gasoline)

ROCKFORD—Rockford Engine Works (Gasoline)

Savage & Love Co. (Gas & Gasoline)

STERLING—Charter Gas Engine Co. (Gas & Gasoline)

WARNER—Warner Elevator Mfg. Co. ("Warner" Gasoline)

INDIANA.

ANDERSON—Anderson Tool Co. (Gas)

Buckeye Mfg. Co. (Gas & Gasoline)

Lambert Gas & Gasoline Engine Co. (Gas & Gasoline)

Reliable Machine Co. (Gasoline)

Woolly Foundry & Machine Works (Gas & Gasoline)

ANGOLA—Angola Engine & Foundry Co.

EAST CHICAGO—Famous Mfg. Co.

FORT WAYNE—Ft. Wayne Foundry & Machine Co. (Gas & Gasoline)

Western Gas Construction Co. (Gas & Gasoline)

GOSHEN—Goshen Motor Works

Lease, Henry W., Engine Works

HAGERSTOWN—Light Car Inspection Co.

INDIANAPOLIS—Atlas Engine Works, 19th & Capital Gas Engine Co. Martindale av.

Crescent Machine & Tool Co. (Gas & Gasoline)

FAIRBANKS, MORSE & CO. (Gas & Gasoline for All Purposes), 140 S Meridian. (See adv. index, end of book)

Howe Engine Co. (Gasoline), Hillside & Bloyd avs.

KENDALVILLE—Flint & Walling Mfg. Co. (Gasoline)

LOGANSPOUT—Western Motor Co. ("Rutenber")

MARION—Gillespie, L. W. & Co. (Gas & Gasoline, 1 h. p. & up)

MISHAWAKA—Perkins Windmill Co.

MUNCIE—Muncie Gas Engine & Supply Co. ("Auglaize" Gas)

NEW ALBANY—Goetz-Coleman Mfg. Co. (Gas & Gasoline)

PERU—Model Gas Engine Works

PLYMOUTH—Clizbe Bros. Mfg. Co.

SOUTH BEND—Casaday, W. L., Mfg. Co.

IOWA.

CEDAR RAPIDS—Cedar Rapids Foundry & Machine Co.

CHARLES CITY—Hart-Parr Co. (Oil Cooled Gasoline)

CLINTON—Lamb Boat & Engine Co. (Gas)

DAVENPORT—Buck Auto Carriage & Implement Co.

White Lily Washer Co. ("White Lily" Gasoline)

DES MOINES—Globe Machinery & Supply Co., 414 W. Court av.

Monarch Machine Co.

IOWA CITY—Kelly, O. S., Western Mfg. Co.

IOWA FALLS—Gade Bros. Mfg. Co. (Air Cooling, Gasoline)

JEFFERSON—Jefferson Gas Engine Works

LONE TREE—Monarch Grubber Co.

LYONS—Pelton, T. G. & Son (Gasoline)

MARSHALLTOWN—Lennox Machine Co. (Stationary & Mounted)

WATERLOO—Cascaden, Vaughan Co. ("Davis" Gasoline)

Iowa Gasoline Engine Co. (Gasoline)

Waterloo Gasoline Engine Co. (Gasoline)

KANSAS.

CLAY CENTER—Clay Center Windmill & Foundry Co.

FORT SCOTT—Fort Scott Mfg. Co. dry Co.

GAS—King Gas Engine Co. (Gas)

KANSAS CITY—Badger Gas & Gasoline Engine Co. (Gas & Gasoline)

KENTUCKY.

LOUISVILLE—**FAIRBANKS, MORSE & CO.** (Gas & Gasoline for All Purposes), 519 Main. (See adv. index, end of book)

Longest Bros Co. (Gasoline), 561 3d

NEWPORT—Deam Gas Engine & Foundry Co. (Gas)

Reilly, J. J. Mfg. Co. (Gas & Gasoline), 13th & Rowan

WINCHESTER—Hagans Gas Engine & Mfg. Co. (Gas)

MAINE.

AUGUSTA—Fifield Bros.

BATH—Bath Automobile & Gas Engine Co. (Gas)

Torrey Roller Bushing Works

CAMDEN—Camden Anchor-Rockland & Machine Co. (Gasoline)

PORTLAND—American Gas & Gasoline Engine Co.

MARYLAND.

BALTIMORE—Bauer Bros. (Marine Gasoline), 1916 Light

Eisenbrandt, F. B. (Marine Gasoline), ft of Marshall

Hollingsworth, Wm., 227 N. Holliday

Keidel, Henry & Co. (Gasoline), 405 W. German

Page Engineering Co. (Gas & Gasoline), 119 E. York

White & Middleton Gas Engine Co. (Gas & Gasoline, 5 to 400-H. P.), Charles & Winder

MASSACHUSETTS.

ABINGTON—Lamson, E. F.
 BOSTON—Bay State Gas Engine Co. (Gas & Gasoline), 48 Washington, N. Boston Gasoline Engine Co. ("Reliable"), 88 Brigham, M. H., 63 Haverhill Broad Church, Stephen B. (Gas & Gasoline), 66 High Hawkins Mfg. Co. (Gasoline), 506 Atlantic av. Holt, S. L. & Co. (Gas & Gasoline), 191 High Jager, Chas. J. ("Jager" 4 Cycle type, 3 to 60-H. P.), 281 Franklin Lunt, Moss & Co. (Gas & Gasoline), 43 S Market Murray & Tregurtha Co., 338 W 1st, S. B. National Meter Co., 159 Franklin Sturtevant Mill Co., Harrisou sq Whitney, F. E. (Gas & Gasoline), 65 Sudbury
 FALL RIVER—Belcher Motor Co. ("Belcher" 2-cycle Automobile, Stationary & Marine Gasoline)
 GLOUCESTER—Perkins Launch & Motor Co. ("Ronamor")
 Richardson, N. & Sons Mfg. Co.
 LAWRENCE—Lawrence Machine Co. (2 & 4 Stanley Co. cycle)
 Turner & Schwartzinberg (Gas)
 LYNN—Wiukley Engineering Co. (Gasoline)
 Young, W. J. Machinery Co. (Essex Gasoline Engines)
 QUINCY—Lizotte, Jos. & Co. (Gasoline)
 SALEM—Goodell, Zina
 TAUNTON—Easternhouse Engine Co. ("Pearl"), 35 Vernon
 WOLLASTON—Emery, Victor J. (Marine Gas) Stuart, John Co.
 WORCESTER—Adams, John J. (Gas & Gasoline), 81 Mechanic Greendale Gas Engine Co. (Gas & Gasoline), Boylston, cor. Fales Knight, Ethel O., 86 Foster

MICHIGAN.

ALBION—Cook Mfg. Co. (Gas & Gasoline)
 ALMA—Alma Mfg. Co. ("McVicker" Automatic Gasoline)
 BAY CITY—Smalley Motor Co. (Gasoline)
 BELDING—Ballon Mfg. Co.
 COLDWATER—Regal Gasoline Engine Co. (Gasoline)
 DETROIT—Blomstrom, C. H. Motor Co., 1284 River Cross, M. O. Engine Co. (Marine & Stationary)
 Detroit River Iron Works, 665 E. Atwater
 Detroit Gas Engine & Machine Works, 46 E. Congress
 Dingfelder, Max (Gasoline), ft. of Crane
 Du Brie Motor Co., 436 Guoin
FAIRBANKS, MORSE & CO. (Gas & Gasoline for All Purposes), 89 Jefferson. (See adv. index, end of book)
 Ford Motor Co. (2 & 4 Cylinder), Piquette av. & Beaubien
 Free Piston Gas Engine Co., 1867 River
 Gray Motor Co., Leib & Wight
 Lamont & Steers Engine Co., 1470 Jefferson
 Limbacher, Joseph (Gasoline, Marine), 60 Woodbridge
 Massnick Mfg. Co. (Gasoline, 4 to 10 h. p.)
 Michigan Steel Boat Co., 1250 Jefferson av
 Pungs-Finch Auto & Gas Engine Co. ("King," "Sintz," 2 & 4 Cycle, 4 to 75 h. p.), 1524 Jefferson av
 Sommer Motor Co., 298 E Columbia
 Strellinger, Chas. A. Co. (Gas), 96 Bates
 United Mfg. Co., 171 W. Woodbridge
 GRAND RAPIDS—Austin Automobile Co. (Gasoline Automatic & Launch), 88 Division
 Grand Rapids Gas Engine & Yacht Co. ("Monarch")
 Michigan Motor Co. (4-Cycle)
 Sintz, Claude (Gasoline)
 Wolverine Motor Works (Gas)
 GREENVILLE—Moore Plow & Implement Co. ("Moore" Gasoline)
 HILLSDALE—Alama Mfg. Co. (Gas & Gasoline)
 IONIA—Arnold, G. W. Son (Gasoline)
 JACKSON—Field-Brundage Co. ("Field" Gasoline)
 KALAMAZOO—Burt Mfg. Co. (Gasoline)
 Kalamazoo Railway Supply Co. (Gasoline Pumping)
 Smith & Pomeroy Wind Mill Co.
 LANSING—Bates & Edmonds Motor Co. (Gas & Gasoline)
 Belfuss Motor Co. (Gas)
 Hildreth Motor & Pump Co.
 Kneeland Mfg. Co. (Gasoline)
 Lansing Motor & Pump Co. (Gasoline)
 Maude S. Windmill & Pump Co.
 New Way Motor Co. (Gasoline, 3½ to 7 h. p.)
 Olds Gas Power Co. (Stationary & Portable)
 Peerless Motor Co.
 LYONS—Lyons Engine Co. (Gas)
 MANCERLONA—Eclipse Motor Co.

MARCELLUS—Chapman Forge & Engine Works
 MARQUETTE—Lake Shore Engine Works ("New Superior 2 & 4-Cycle)
 MORENCI—Michigan Brick & Tile Machine Co.
 MUSKOGON—Racine Boat Mfg. Co.
 PORT HURON—Reed, R. H. (Gas & Gasoline)
 SAGINAW—Ayres Gasoline Engine & Automobile Works
 Burnett Foundry & Machine Works (Marine), Petosky, Mich.
 National Engineering Co. ("New Model" & "Michigan")
 ST. JOHNS—Richmond & Halmes (Gas & Gasoline)
 ST. JOSEPH—Truscott Boat Mfg. Co. (Gasoline, Marine)
 Spaulding Engine Co. (2-Cycle Gasoline, Marine)
 SAULT STE MARIE—Chippewa Engine Works (Gasoline)
 THREE RIVERS—Sheffield Car Co.

MINNESOTA.

DULUTH—Duluth Gas Engine Works ("Little Giant")
 Kelley Hardware Co. (Gasoline)
 FAIRMONT—Fairmont Machine Co. ("Fairmout" Gasoline)
 FARIBAULT—Faribault Mfg. Co. (Gas & Gasoline)
 HASTINGS—Stroud-Humphrey Mfg. Co.
 MINNEAPOLIS—Enterprise Machine Co. (Gasoline), 1118 S 3d
FAIRBANKS, MORSE & CO. (Gas & Gasoline for All Purposes), 220 Nicollet av. (See adv. index, end of book)
 Kinnard-Haines Co., 44th & Bryant av
 Minneapolis Brass & Iron Mfg. Co. (Gasoline), 116 1st av n
 North Star Mfg. Co., 21 High
 Northern Gas Machine Co. (Gas), 216 S 4th
 Parten-Blomstrom Mfg. Co., 249 S 6th av
 Shadegg, J. C., Engine Co., 315 S 3d
 Valentine Bros. Mfg. Co. (Gasoline), 230 S
 NORTHFIELD—Spear, L. E., 5th av
 RED WING—Red Wing Boat Mfg. Co. (Gasoline)
 ST. PAUL—Auto Engine Works (Marine Gasoline), 427 Race
 Burdick-Putnam Gasoline Engine Co., 565 Decatur
 Stickney, Chas. A. Co. (Gas & Gasoline)
 Waterous Engine Works Co. (Gasoline)
 WILLMAR—Halvorson, Lars
 WINONA—Tarras, L. C. (Gasoline)

MISSOURI.

JOPLIN—AMERICAN WELL WORKS. (See adv. index, end of book)
 KANSAS CITY—Bauer Machine Works Co., 111 W 18th
 Kansas City Hay Press Co. (Stationary & Portable)
 Mathews, Hugh, 5th & Washington
 Weber Gas & Gasoline Engine Co. (Up to 300 h. p., 700 Delaware
 Witte Iron Works Co. (Gas & Gasoline), 5th & Penn
 ST. JOSEPH—Neilson Motor Works
 ST. LOUIS—FAIRBANKS, MORSE & CO., Gas & Gasoline for All Purposes, 8th & Clark av. (See adv. index, end of book)
 International Motor Co., 24 S 10th
 Macgowan & Finigan Foundry & Mach. Co., 204 N 3d
 St. Louis Gas & Gasoline Engine Co., 2519 S 2d
 Sinniug, Chas., Machine Works (Gas & Gasoline), 244 Dickson

NEBRASKA.

BEATRICE—Dempster Mill Mfg. Co.
 LINCOLN—Cushman Motor Co. (2-Cycle Gasoline)
 NORFOLK—Norfolk Foundry & Mfg. Co. (Gasoline)
 OMAHA—FAIRBANKS, MORSE & CO., Gas & Gasoline for All Purposes, 1102 Farnam. (See adv. index, end of book)

NEW JERSEY.

BLOOMFIELD—Empire Cream Separator Co.
 BORDENTOWN—Rice, John V., Jr., & Co. ("Rice" Marine Gas.)
 CAMDEN—Bell Engineering Co.
 Lancaster Machine & Structural Works (Gasoline)
 JERSEY CITY—Standard Motor Const. Co. (75 h. p. up), 182 Whiton
 NEWARK—Backus Water Motor Co. (Gas & Gasoline), 174 Penn av
 Hartig Standard Gas Engine Co. (Gas & Gasoline), 14 Commercial
 Newark Gas Engine Co., 676 N 6th
 Seitz, F. A. Co.

PATERSON—Sipp Electric & Machine Co.
 PERTH AMBOY—Dutton Engineering Co. (Gasoline)
 TRENTON—Trenton Malleable Iron Co. ("Rice" 2 & 4-Cycle)

NEW YORK.

AUBURN—International Harvester Co. of America (Gasoline), Osborne Plant
 BALDWINVILLE—American Gasoline Motor Co. (Gasoline Engines & Motors)
 BELMONT—Clark Bros. Co. ("Bogart" Heavy Duty Double Cylinder Gas, 100 to 500 h. p.)
 BINGHAMTON—Canfield, P. B. (Gas)
 Deyo, R. H. & Co. (Gas)
 BUFFALO—Alberger, A. H., Co. (4-Cycle, 2 Cylinder, Tandem, Gas & Gasoline, 25 to 250 h. p.), Ellicott sq
 Buffalo Engine Co. (Salisbury), 272 Michigan
 Buffalo Gasoline Motor Co., 1280 Niagara
 Elsenhans Machine Works (Gas & Gasoline), 500 Wash'n
 Empire Machine & Stamping Co., 59 Ter-Farrar & Trefts (Gas), 65 Perry race
 Frontier Engine Works, ft. of Illinois
 Lake Erie Engineering Works (100 to 10,000 h. p.)
 Lazier Engine Co. (Gas & Gasoline), 190 Main
 Olin Gas Engine Co. (Gas & Gasoline), 10 Lock
 Robertson Mfg. Co. (Gas), 1453 Niagara
 Ruger, J. W., Mfg. Co. (Gas & Gasoline, 4-Cycle Compression Type, 5 to 100 h. p.), Chicago & Perry
 Sterling Engine Co. (Gas), 119 Grant
 Thomas, E. R. Motor Co. (Gas) Niagara nr Ferry
 ELMIRA—Field Force Pump Co.
 FRANKFORT—ACME ROAD MACHIN-ery Co. (Gasoline) (See adv. index, end of book)
 FULTON—Parker, J. J. Co. (Gasoline) book
 GASPORT—Friend Mfg. Co.
 GENEVA—Fay & Bowen Engine Co. (Gas & Gasoline, 2-Cycle Stationary & Marine)
 HAMMONDSPOUT—Curtiss, G. H. Mfg. Co.
 MALONE—Hinds, Thos. (Gasoline)
 NEWBURGH—Lackawanna Mfg. Co.

NEW YORK CITY.
Borough of Brooklyn.

BROOKLYN—Brooklyn Gas & Gasoline Engine Co., 1377 De Kalb av
 National Meter Co., 42d c 1st av
 Saladin, Louis & Co., 1143 De Kalb av

Boroughs of Manhattan & Bronx

NEW YORK—ALLIS-CHALMERS CO. "Nunberg," Gas Four-Cycle, Double Acting, 130 to 6000 h. p., 71 B'way. (See adv. index, end of book)
 Allman Gas Engine & Mach. Co., 29 Sullivan
AMERICAN WELL WORKS (Gasoline). (See adv. index, end of book)
 Baylis Co., 140 Wash'n
 Calleson Motor Co. (Gas), 461 Canal
 De Buren, Henri, 174 E 75th
 De La Vergne Machine Co. ("Koerting" Gas), ft E 138th
 Empire State Engineering Co., 116th & E. R.
 Fairbanks Co., 186 Lafayette
FAIRBANKS, MORSE & CO. (Gas & Gasoline for All Purposes), 133 Liberty. (See adv. index, end of book)
 Gas Engine & Power Co. & Chas. L. Seabury & Co. ("Speedway" Gasoline), Morris Heights
GAS POWER CO., 60 Wall. (See adv. index, end of book)
 Hardy, R. E. Co., 86 Watts
 Homan, J. & E. (Gas & Gasoline), 378 W B'way
 Kumberger & Vreeland (Gas & Gasoline), 35 Loomis, F. W., 403 Canal Sullivan
 Lozier Motor Co. ("Lozier" 2- & 4-Cycle), 55th & B'way
 Meitz & Weiss, 134 Mott av
 National Meter Co. ("Nash" Gas & Gasoline), 84 Chambers
 New York Safety Steam Power Co., 39 Cortlandt
 New York Yacht, Launch & Engine Co. ("20th Century"), Morris Heights
OIL CITY BOILER WORKS (Inc.) of Oil City, Pa. (Gas), 39 Cortlandt. (See adv. index, end of book)
 Power & Mining Machinery Co. ("American Crossley Gas Engines), 52 William, New York. Works: Cudahy, Wis.
 Smith & Mabley (Inc.) (Simplex), 1765 B'way
 Struthers-Weiss Co. (Gas), 26 Cortlandt Works: Warren, Pa.
 Thomas, R. H. & Co. ("White & Middleton" Gas), 107 Liberty

Thompson, Andw. (Gas & Gasoline), 114 Centre
TUOHY BROS. CO., 95 Liberty
 (See adv. index, end of book)
 Webster Mfg. Co., 88 Reade
 White Mfg. Co. (The Craig Gas & Gasoline), 556 W 34th
 Wing, L. J. Mfg. Co. (Gas), 136 Liberty

Borough of Queens.

LONG ISLAND CITY—Daimler Mfg. Co., 939 Steinway av
 (END OF NEW YORK CITY.)
 NORTH TONAWANDA—Herschell-Spillman Co.
 NUNDA—Foot Mfg. Co.
 OLEAN—Myrick Machine Co. (Gas)
 ROCHESTER—Beers Bros. (Gasoline), Culver rd
 Brownell-Trebert Co. (Gas), 407 St Paul
 Horton Boats (Inc.)
 Rochester Gas Engine Co., Lexington av
 Trebert Gas Engine Co. ("Monarch"), 163 Bridge
 ROME—Maxwell & Fitch Co. Main, W.
 SCHENECTADY—Westinghouse Co.
 SYRACUSE—Barber Bros.
 Cornwell, R. M. Co. (Inc.) ("Wonder" Gasoline)
 Leighton, H. J., 901 W Fayette
 Sanderson, Wm., 307 W Willow
 TROY—Grant-Ferris Co.
 VERNON—Pohl, Geo. D. Mfg. Co. (Gasoline "Advance")
 WATERTOWN—Smith Electrical Engineering Co. ("Boynton")
 WOODHAVEN—Woodhaven Motor Works (Louvert 2-cycle)

OHIO.

CINCINNATI—Berghausen Machine Co., 601 Lock
FAIRBANKS, MORSE & CO. (Gas & Gasoline for All Purposes), 307 Walnut.
 (See adv. index, end of book)
 Lane & Bodley Co. (Gas), cor John & Water
 Van Duzen, E. W. Co. (Gas & Gasoline), 428 E 2d
 Vandewalle, Chas. & Co. (Marine Gasoline), Mt Echo & W 6th
 Watkins, F. M. Mfg. Co. (Gas & Gasoline), 6th & Baymiller
 CLEVELAND—Bruce-Merlam-Abbott Co. (8 to 100 h. p.)
 De Mooy Bros. (Marine Gasoline), 1831 E 55th
FAIRBANKS, MORSE & CO. (Gas & Gasoline for All Purposes), 99 Water.
 (See adv. index, end of book)
 Standard Pump & Engine Co. (Gas), 522 Prospect av, N. W.
STRONG, CARLISLE & HAMMOND
 Co., 333-334 Frankfort av, N. W. (See adv. index, end of book)
WELLMAN-SEEVER-MORGAN CO.
 ("Cockerill" Gas, "Sargent" Gas) (See adv. index, end of book)
 COLUMBUS—Columbus Machine Co. (Gas & Gasoline), 223 W Broad
 Lowe Bros. Machine Works (Gas & Gasoline, 2 to 20 h. p.), 38 W Town
 Reeves Bros. (Gas & Gasoline), 5 S Levee
 Robinson-Tilton Machine Co. ("Noxol"), 515 W 1st av
 DAYTON—Callahan, W. P. & Co. (up to 200 h. p.), 901 E 3d
 New Era Gas Engine Co. ("Little Giant" & "New Era")
 Steiner, M. & Co. (Gas), 242 S Torrance
 Stoddard Mfg. Co.
 ELYRIA—Elyria Gas Engine Co. (Gas & Gasoline)
 GREENVILLE—Wogaman Mfg. Co. (Gas & Gasoline)
 HAMILTON—Advance Mfg. Co. (3 to 35 h. p.)
 KENTON—Kenton Gas Engine Co.
 LEIPSIK—American Foundry Co. ("Gas")
 LIMA—Bessemer Gas Engine Co.
 East Iron & Machine Co.
 LORAIN—Brown-Cochran Co. ("Brown," "Lacy")
 MANSFIELD—Ferryak Machine Co. (Gasoline)
 MARIETTA—Pattin Bros. Co. (Gas)
 MARION—Marion Mfg. Co. (Gas & Gasoline)
 MIDDLETOWN—Middletown Machine Co. (Gas)
 NORWALK—Kavanaugh, Wm. Co. ("Davis")
 ORRVILLE—Cyclone Drill Co.
 ST. MARYS—St. Mary's Machine Co. (Gas & Gasoline)
 SANDUSKY—Ohio Motor Co.
SALEN—BUCKEYE ENGINE CO. (Gas, 50 to 8000 h. p.) (See adv. index, end of book)
 SPRINGFIELD—American Engineering Co. (Gas & Gasoline)
 Bauroth Bros. (Gas & Gasoline, 2 to 15 h. p.)
 Foos Mfg. Co. (Gasoline)
 Miller Improved Gas Engine Co. (Heavy Duty Gas, 35 to 250 h. p.), East & Eastern av
 Springfield Gas Engine Co. (Gas & Gasoline), Park n Main

Superior Gas Engine Co. (Gas & Gasoline)
 TOLEDO—Jones, S. M. Co.
 Reeves Gas Engine & Motor Works
 Universal Machine Co. (Gasoline Marine)
 TROY—Hobart Electric Mfg. Co.
 UPPER SANDUSKY—Ohio Mfg. Co.
 YOUNGSTOWN—Tod, Wm. Co. (Gas in Units, from 300 to 5000 h. p.)

OREGON.

PORTLAND—Columbia Gas Engine & Safe Works, 242 2d
FAIRBANKS, MORSE & CO. (Gas & Gasoline for all Purposes), 1st & Stark.
 (See adv. index, end of book)

PENNSYLVANIA.

ALLEGHENY—National Gear Wheel & Foundry Co. (Gas, The "Mertes" Duplex Gas), South av & Walker
 ALLENTOWN—Allentown Foundry & Machine Works (Up to 10 h. p.)
GRAMMES, L. F. & SONS. See adv. index, end of book
 Nadig, Chas. H. & Bro. Mfg. Co. (Gasoline)
 BEAVER FALLS—Champion Saw & Gas Engine Co. (Gas & Gasoline)
 BRADFORD—Blaisdell Machinery Co. (Gas)
 Bovaird & Co. (Gas & Gasoline)
 Bovaird & Seyfang Mfg. Co. (Gas)
 McElwaine Co. (Gas)
 BUTLER—Braden Gas Engine Co. (Gas & Gasoline)
 Evans Mfg. Co. (Gas)
 Palm Gas Engine Co. (Gas)
 CHESTER—Delaware River Motor Co.
 CORRY—Ajax Iron Works (Gas & Gasoline, 4 to 40 h. p.)
 DOWNIEVILLE—Downie Pump Co. (Gas & Gasoline)
 DU BOIS—Du Bois Iron Works (2½ to 100 h. p.)
 ERIE—Bay State Iron Works
 Bay State Machine Co. (Gas)
 GROVE CITY—Bessemer Gas Engine Co. (Gas)
 LANCASTER—Lancaster Machine & Structural Works (of Camden, N. J.)
 LANSDALE—Heebner & Sons (Gasoline, Stationary & on wheels)
 NEW BRIGHTON—Pierce-Crouch Engine Co.
 NEW HOLLAND—New Holland Machine Co. (Gasoline)
OIL CITY—OIL CITY BOILER WORKS
 (Inc.) Gas. (See adv. index, end of book)
 Reid, Jos. Gas Engine Co. (Gas)
 PHILADELPHIA—Fairmount Engineering Wks., 3207 Spring Garden
 Hall Bros. Gas Engine Works, 1120 Sigel
 Hall Gas Engine Co., 4821 Garden bldg
 Miller, Morris & Co. (Gas), 716 Arch
 Otto Gas Engine Works (Gas & Gasoline), 33d & Walnut
 Phila. Gas Power Machinery Co., N. Front & Indiana
 Steffey Mfg. Co. (Gas), 2941 Girard av
 Vulcan Gas Engine & Mach. Wks. ("Vulcan"), 1727 Ludlow, Phila., Pa
 Williamson, Thos. G., 8 S 39th
 Woodhead, P. & J. (Gasoline), E Venango & G

PITTSBURG—AMSLER ENGINEERING
 Co. (Gas), Diamond Bank bldg. (See adv. index, end of book)
 Davison, N. C. Co. (Gas), Empire bldg
OIL WELL SUPPLY CO. (Gas), 215 Water. (See adv. index, end of book)
 Pierce-Crouch Engine Co., Park bldg
STANDARD SCALE & SUPPLY CO.,
 243 Water. (See adv. index, end of book)
 Tate, Jones & Co. (Inc.) (Gas), Empire bldg
WESTINGHOUSE MACHINE CO.
 (10 to 10,000 h. p.). The Westinghouse bldg
 QUINCY—Metcalf & Miller (Gas & Gasoline)
 SHIPPINSBURG—Domestic Engine & Pump Co.
 TITUSVILLE—Titusville Iron Co.
 WARREN—**JACOBSON MACHINE MFG.**
 Co. (See adv. index, end of book)
 Struthers-Wells Co. (Gas)
 WAYNESBORO—Geiser Mfg. Co. (Gasoline)
 WILLIAMSPORT—Moltz, Jacob J.
 Williamsport Gas Engine Co. (Gas & Gasoline for all Purposes)
 WRIGHTSVILLE—Dissinger, C. H. A. & Bro.
 YORK—Flinchbaugh Mfg. Co. (Gas & Gasoline)
 Henry, Millard & Henry ("Advance" 2 to 15 h. p.)

RHODE ISLAND

NEWPORT—Newport Engineering Works, 359 Thames
 PROVIDENCE—American & British Mfg. Co. (Gas & Gasoline in Quantities Only)
 Chase Yacht & Engine Co (1, 2 and 4 cylinders, 6 to 30 h. p.)
 Mead Gas Engine Co. (Marine, Gasoline)
 Providence Engineering Works
 Rhode Island Motor Co., 71 S. Angell

TENNESSEE.

MEMPHIS—Union Iron Works (Gas & Gasoline), N Main c Keel

TEXAS.

DALLAS—**AMERICAN WELL WORKS**
 (Gasoline). (See adv. index, end of book)
 FORT WORTH—Fort Worth Machine & Foundry Co. ("Acme" Gasoline)

VERMONT

MIDDLETOWN SPRINGS—Gray's, A. W., Sons
 POULTNEY—Ruggles Machine Co.
 RUTLAND—Stoddard Mfg. Co. (Gas & Gasoline)
 WATERBURY—Cooley Mfg. Co. (Gasoline)
 WESTMINSTER STATION—Abenague Machine Works (Gas & Gasoline)

VIRGINIA

NORFOLK—Chesapeake Launch & Motor Co.
 Wallace Bros. (Gas)
 Williams, Sylvanus J. (Marine Gasoline)
 RICHMOND—Richmond Mfg. Co. (Inc.) ("Little Wonder" Gasoline)

WEST VIRGINIA

PARKESBURG—U. S. Engine Co. (Automatic Gas 10 to 100 h. p.)

WISCONSIN

APPLETON—Eagle Mfg. Co. (Gasoline)
 BELOIT—Thompson, J. & Sons Mfg. Co. (The Original Lewis Gas & Gasoline)
 CUDAHY—Power & Miniug Machinery Co. ("American Crossley" Gas Engines)
 EAU CLAIRE—Northwestern Steel & Iron Works (Gasoline)
 EVANSVILLE—Baker Mfg. Co. (Gasoline)
 FOND DU LAC—Clark Mfg. Co.
 Hass, H. B., Gas & Gasoline Works (Gas & Gasoline)
 Quentin, Peter N. (Gas)
 LA CROSSE—Benton, Thos. P. & Son (Gasoline)
 MADISON—Fuller & Johnson Mfg. Co. (Gasoline, Water & Oil Cooled & Frost Proof)
 MARINETTE—Silberzahn Gas Engine Co. (Gas & Gasoline)
 MENOMONIE—Globe Iron Works Co. ("White" Gasoline, Stationary, Portable, Marine & Electric Light)
 MENOMONEE FALLS—Rowell, I. B. Co. (Gasoline)
MILWAUKEE—ALLIS-CHALMERS CO.
 ("Numberg" Gas Only, Four cycle Double Acting, 130 to 6,000 h. p.) (See adv. index, end of book)

Beaver Mfg. Co., 237 Oregon
 Davis Mfg. Co., 935 30th
 Lauson, C. P. & J. (Gasoline) 103 W Water
 Milwaukee Auto Engine & Supply Co., 706 Winnebago
 Milwaukee Machinery Co. (Gasoline), 31st & Walnut
 Milwaukee Motor Co., 615 Clybourne
 Toepfer's, Frank Sons, 460 National av
 Western Malleable & Grey Iron Mfg. Co. ("Simplicity")
 NEW HOLSTEIN—Lauson, John, Mfg. Co. (Gas & Gasoline)

OSHKOSH—Doman, H. C. Co.
 Termant & Monahan Co. (Reversing)
 U. S. Engine Works (Gas & Gasoline)
 PORT WASHINGTON—Gilson Mfg. Co., "Air Cooled Gasoline"
 RACINE—Pierce Engine Co. Gas & Gasoline
 Reliance Iron & Engine Co. (Gas & Gasoline)
 Wabers, H. H. Mfg. Co. (Gas & Gasoline)
 RIPON—Schaeffer, W. E.
 SHEBOYGAN—Globe Foundry & Machine Co. (Gasoline)
 STEVENS POINT—Central City Iron Works (Gas & Gasoline)
 SUPERIOR—Duplex Mfg. Co. (Gasoline)

Engines (Greenhouse & Garden)

RUMSEY & CO. (Ltd.), Seneca Falls,
 N. Y. (See adv. index & branch offices, end of book)

Engines (Haulage)

Aetna Foundry & Machine Co., Springfield, Ill.
BALANCED CABLE CRANE CO., THE.
 135 William, New York. (See adv. index, opposite last page of index of contents)
 Chase Machine Co. (Docking & Hauling Cars) etc., 111 Elm, Cleveland, O.
 Crawford & McCrimmon Co., Brazil, Ind.

Danville Foundry & Machine Co., Danville, Ill.
Eagle Iron Works, Des Moines, Ia.
Exeter Machine Works, West Pittston, Pa.
Flinch Mfg. Co., Scranton, Pa.

FLORY, S. MFG. CO., Bangor, Pa.
(See adv. index, end of book)

Griffith & Wedge Co., Zanesville, O.

LAMBERT HOISTING ENGINE CO.,

115 Polnier, Newark, N. J. (See adv. index

& branch offices, end of book)

LIDGERWOOD MFG. CO., 96 Liberty,

New York, & Old Colony bldg., Chicago, Ill.

(See adv. index & branch offices, end of

book)

Litchfield Foundry & Machine Co. (Endless rope,

tail rope), Litchfield, Ill.

McMyler Mfg. Co., Cleveland, O.

MEAD-MORRISON MFG. CO. (Twin

Drum Tail Rope), Cambridge, Mass. (See

adv. index & branch offices, end of book)

Miltholland, J. & J. B. Co. (Endless rope), 718

5th av., Pittsburg, Pa.

MONIGHAN'S MACHINE WORKS, 813

Carroll av., Chicago, Ill. (See adv. index,

end of book)

Monongahela Mfg. Co., Monongahela, Pa.

Mullen, Jno. & Son, Shamokin, Pa.

MUNDY, J. S., 22 Prospect, Newark,

N. J. (See adv. index & branch offices, end

of book)

NATIONAL HOISTING ENGINE CO.,

Harrison, N. J., (See adv. index & branch

offices, end of book)

Nelsonville Foundry & Machine Co., Nelson-

ville, O.

Ottumwa Iron Works (Direct & Geared), Ottum-

wa, Ia.

Robinson Machine Co., Monongahela, Pa.

Stine, S. B. & Son, Osceola Mills, Pa.

Stroh, W. H. (Est. of), Mauch Chunk, Pa.

Superior Iron Works (Cable Haulage with End-

less Rope), Superior, Wis.

Vulcan Iron Works, Wilkes-Barre, Pa.

WELLMAN-SEAEVER-MORGAN CO.,

Cleveland, O., & Akron, O. (See adv. in-

dex, end of book)

Wickes Bros., Saginaw, Mich.

Engines (High Duty Pumping)

Allentown Rolling Mills ("Aldrich" Electric),

Allentown, Pa.

ALLIS-CHALMERS CO. ("Reynolds")

Triple Expansion & Compound, Horizontal

& Vertical), Milwaukee, Wis. (See adv. in-

dex & branch offices, end of book)

AMERICAN WELL WORKS, Aurora,

Ill. (See adv. index & branch offices, end

of book)

Builders' Iron Foundry ("d'Auria"), Prov-

dence, R. I.

Davidson, M. T., 43 Keap, Brooklyn, N. Y., &

141 B'way, New York

Heisler, C. L., Mfg. Co., St. Marys, O.

International Steam Pump Co., 114 Liberty,

New York

Lake Erie Engineering Works (2 Million to 60

Million Gals), Buffalo, N. Y.

MARINE ENGINE & MACHINE CO.

("Groshou"), 126 Liberty, New York. Wks:

Harrison, N. J. (See adv. index, end of

book)

MINNEAPOLIS STEEL & MACHIN-

ery Co., Minneapolis, Minn. (See adv. in-

dex & branch offices, end of book)

Morris, I. P. Co., Beach & Ball, Philadelphia,

Pa.

Prescott, Fred. M., Steam Pump Co., West

Allis, Wis.

Tod, Wm. Co. ("Reynolds"), Youngstown, O.

Weinman Machine Works, Columbus, Ohio.

Wilson-Snyder Mfg. Co., Ross & Water, Pitts-

burg, Pa.

Wood, R. D. & Co., 400 Chestnut, Philadelphia,

Pa.

Wagener Steam Pump Co., Louisville, O.

Engines (Hoisting)

(See also Engines, Hoisting, Gas & Gasoline)

CALIFORNIA.

SAN FRANCISCO-CONTRACTORS' SUP-

ply & Equipment Co., 219 Spear. (See

adv. index, end of book)

FAIRBANKS, MORSE & CO. (Gas

& Gasoline), 310 Market. (See adv. on

following page)

Hendy, Joshua Machine Works (Double

Cylinder, etc.), Bay & Kearney

LAMBERT HOISTING ENGINE CO.,

(See adv. index, end of book)

MUNDY, J. S. (for all Purposes),

10 Beale (See adv. index, end of book)

SULLIVAN MACHINERY CO., 319

Howard (See adv. index, end of book)

COLORADO.

DENVER-Davis, F. M. Iron Works Co., Lar-

imer c 8th

Denver Engineering Works Co. (all kinds),

Blake, cor. 30th

FAIRBANKS, MORSE & CO. (Gas

& Gasoline), 1600 17th. (See adv. on

following page)

Mine & Smelter Supply Co.

Stearns-Roger Mfg. Co.

SULLIVAN MACHINERY CO. (Cor-

liss Valve Gear, Single & Double Drum),

174S B'way. (See adv. index, end of book)

LITTLETON-Leyner, J. Geo. Engineering Wks.

Co.

CONNECTICUT.

BRIDGEPORT-Coulter & McKenzie Machine

Pacific Iron Works (Inc.) Co.

ILLINOIS.

CHICAGO-AMERICAN HOIST & DER-

rick Co., 60 S. Canal. (See adv. index,

end of book)

CONTRACTORS' SUPPLY & EQUIP-

ment Co., Old Colony bldg. (See adv. in-

dex, end of book)

DOBBIE FOUNDRY & MACHINE

Co., 202 S Water. (See adv. index, end

of book)

FAIRBANKS, MORSE & CO (Gas

& Gasoline), Franklin c Monroe. (See adv.

on following page)

LAMBERT HOISTING ENGINE CO.,

Old Colony bldg. (See adv. index, end

of book)

LIDGERWOOD MFG. CO., Old Col-

ony bldg. (See adv. index, end of book)

MONIGHAN'S MACHINE WORKS

(All Kinds), 813 Carroll av. (See adv. in-

dex, end of book)

Parker Hoist & Machine Co., 971 N. Fran-

cisco av.

SHAW, WILLIS, 171 LaSalle. (See

adv. below)

SULLIVAN MACHINERY CO. (Cor-

liss Valve Gear, Single & Double Drum),

Railway Exchange bldg. (See adv. index,

end of book)

Vulcan Iron Works, 80 N. Clinton av.

DANVILLE-Danville Foundry & Machine Co.

LITCHFIELD-Litchfield Foundry & Machine

Co. (First Motion)

SPRINGFIELD-Aetna Foundry & Machine Co.

INDIANA.

BRAZIL-Crawford & McCrimmon Co.

EVANSVILLE-Heilman Machine Works (Single

or Double Geared)

INDIANAPOLIS-FAIRBANKS, MORSE &

Co. (Gas & Gasoline), 140 S Meridian.

(See adv. on following page)

PERU-Model Gas Engine Works (13 to 100

H. P.)

Potter Mfg. Co., 2010 Northwestern av.

IOWA.

BURLINGTON-Murray Iron Works Co.

DES MOINES-Eagle Iron Works

OTTUMWA-Ottumwa Box Car Loader Co.

Ottumwa Iron Works

MASSACHUSETTS.

CAMBRIDGE-MEAD-MORRISON MFG.

Co. (Single & Double Drum) (See adv.

index, end of book)

MICHIGAN.

BAY CITY-Industrial Works

Marine Iron Co.

DETROIT-FAIRBANKS, MORSE & CO.

Gas & Gasoline), 89 Jefferson. (See adv.

on following page)

RUSSEL WHEEL & FOUNDRY CO.

Co. (See adv. index, end of book)

GRAND HAVEN-Dake Engine Co.

SAGINAW-Bartlett, A. F. & Co.

Jackson & Church Co.

Wickes Bros.

MINNESOTA.

MINNEAPOLIS-FAIRBANKS, MORSE &

Co. (Gas & Gasoline), 220 Nicollet av. (See

adv. on following page)

ST. PAUL-AMERICAN HOIST & DER-

rick Co. (See adv. index, end of book)

FAIRBANKS, MORSE & CO. (Gas

& Gasoline), 234 E 3d. (See adv. on fol-

lowing page)

MISSOURI.

ST. LOUIS-Ellison, Wm. & Sons Mfg. Co.,

1020 N. 6th

FAIRBANKS, MORSE & CO. (Gas

& Gasoline), 8th & Clark av. (See adv.

on following page)

LAMBERT HOISTING ENGINE CO.,

715-717 N. 2d. (See adv. index, end of

book)

MUNDY, J. S. (For all Purposes),

210 Wash'n av. (See adv. index, end of

book)

South St. Louis Foundry Co., 7514 S. B'way

SULLIVAN MACHINERY CO.,

Missouri Trust Bldg. (See adv. index,

end of book)

SPRINGFIELD-United Iron Works Co. (For

Coal Mines, etc.)

NEW HAMPSHIRE.

CLAREMONT-SULLIVAN MACHINERY

Co. (Corliss Valve Gear, Single & Double

Drum). (See adv. index, end of book)

WILLIS SHAW,

Contractors'

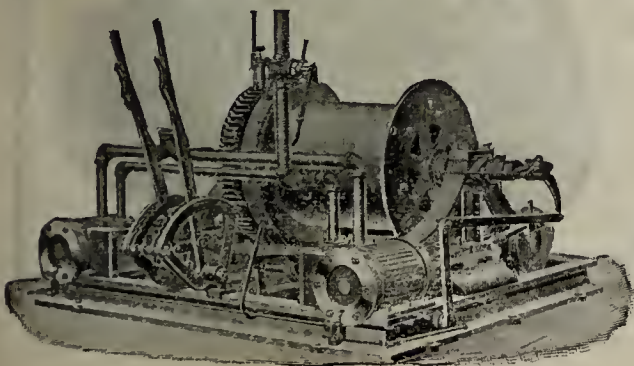
New and Second-Hand Machinery

Let me send you my monthly stock sheet
and price list of

Steam Shovels, Locomotives, Dump Cars,
Stone Crushers, Rock Drills, Relaying Rail,
Cable Ways, Air Compressors, Traveling
Derricks, etc. " " " " " "

171 La Salle Street,

CHICAGO, ILL.



NEW JERSEY.

HARRISON—NATIONAL HOISTING ENGINE Co. (For all purposes). (See adv. index, end of book)
NEWARK—LAMBERT HOISTING ENGINE Co., Main Office & Works, 115-121 Poinier. (See adv. index, end of book)
MUNDY, J. S. (For all Purposes), 22 Prospect. (See adv. index, end of book)

NEW YORK.

BUFFALO—Contractors' Plant Mfg. Co.
NEW YORK—AMERICAN HOIST & Derrick Co., 39 Cortlandt. (See adv. index, end of book)
 Bacon, Earl C. (Single & Double Cylinder), 26 Cortlandt
BROWN HOISTING MACHINERY Co., 26 Cortlandt. (See adv. index, end of book)
BALANCED CABLE CRANE CO., The, 135 William, New York City. (See adv. opp. last page of Index of Contents)
CONTRACTORS' SUPPLY & Equipment Co., 170 B'way. (See adv. index, end of book)
DOBBIE FOUNDRY & MACHINE Co., 82 Warren. (See adv. index, end of book)
FAIRBANKS, MORSE & CO. (Gas & Gasoline), 133 Liberty. (See adv. below)
 Hoshor-Platt Co., 120 Liberty, New York
 Hunt, C. W. Co., 45 B'way
LAMBERT HOISTING ENGINE CO., 85 Liberty. (See adv. index, end of book)
LIDGERWOOD MFG. CO., 96 Liberty. (See adv. index, end of book)
MEAD-MORRISON MFG. CO. (Single & Double Drum), 11 B'way. (See adv. index, end of book)
N. Y. CABLEWAY & ENGINEERING Co., 1 Rector. (See adv. index, end of book)
PELHAM OPERATING CO., 416 W. 26th. (See adv. index, end of book)
 Power & Mining Machinery Co., 52 William Works, Cudahy, Wis.
SULLIVAN MACHINERY CO. (Corliss Valve Gear Single & Double Drum), 42 B'way. (See adv. index, end of book)
 Traylor Engineering Co. (Marine), 144 Liberty
TUOHY BROS. (Mrs.' Agents), 95 Liberty. (See adv. index, end of book)
NIAGARA FALLS—DOBBIE FOUNDRY & Machine Co. (See adv. index, end of book)

OHIO.

CINCINNATI—FAIRBANKS, MORSE & Co. 307 Walnut. (See adv. index, end of book)
McKEOWN, H. J., 248 Butler. (See adv. index, end of book)
CLEVELAND—BROWN HOISTING Machinery Co., St. Clair, N. E. (See adv. index, end of book)
 Chase Machine Co. (Reversible, etc.), 111 Elm
FAIRBANKS, MORSE & CO. (Gas & Gasoline), 99 Water. (See adv. below)
 McMyler Mfg. Co., 1799 Columbus rd., N. W.
 Macbeth Iron Co., Winslow & Center
WELLMAN—SEAEVER-MORGAN CO. (See adv. index, end of book)
COLUMBUS—Columbus Machine Co.
MARIETTA—Pattin Bros. Co.

RAVENNA—BYERS, JOHN F. MACHINE Co. (All Kinds for all Purposes). (See adv. index, end of book)
TOLEDO—LAMBERT HOISTING ENGINE Co., 248-250 Water. (See adv. index, end of book)
 Toledo Foundry & Machine Co.
 Vulcan Iron Works

OREGON.

PORTLAND—Columbia Engineering Works FAIRBANKS, MORSE & CO. (Gas & Gasoline), 1st & Stark. (See adv. below)
 Phoenix Iron Works, Hawthorne av. & E. 3d
 Portland Iron Works, 495 Northrup
 Willamette Iron & Steel Works

PENNSYLVANIA.

ALLEGHENY—CARLIN'S, THOMAS SONS Co. (See adv. index, end of book)
LAMBERT HOISTING ENGINE CO., Lacock & Sandusky. (See adv. index, end of book)
ALLENTOWN—GRAMMES, L. F. & SONS. (See adv. index, end of book)
BANGOR—FLORY, S. MFG. CO. (All Kinds for all Purposes). (See adv. index, end of book)
DANVILLE—Danville Foundry & Machine Co.
ERIE—Lake City Engineering Co.
LEBANON—Weimer Machine Works Co. (For Furnaces & Mines)
MAUCH CHUNG—Stroh, W. H. (Estate of)
MONONGAHELA—Robinson Machine Co.
PHILADELPHIA—LAMBERT HOISTING Engine Co., 1715-1717 Market. (See adv. index, end of book)
MEAD-MORRISON MFG. CO. (Single & Double Drum), 1406 Washington av. (See adv. index, end of book)
 Morris, I. P. Co. (Mine), Beach & Ball
MUNDY, J. S. (For All Purposes), 1744 Market. (See adv. index, end of book)
 Williamson Bros. Co., E. Cumberland, c. Thompson
PITTSBURG—Milholland, J. & J. B. Co., 118 Pittsburg Industrial Iron Works 5th av.
SULLIVAN MACHINERY CO. (Corliss Valve Gear, Single & Double Drum), Farmers' Bank Bldg. (See adv. index, end of book)
PITTSBURG—Exeter Machine Works
READING—Orr & Semberower
REYNOLDSVILLE—Pittsburg Industrial Iron Works
SCRANTON—ALLIS - CHALMERS Co. (See adv. index, end of book)
 Finch Mfg. Co.
SHAMOKIN—Mullen, John & Son
STROUDSBURG—Stroudsburg Engine Works
WILKES-BARRE—Vulcan Iron Works

WASHINGTON.

SEATTLE—Northwestern Iron Works
 Washington Iron Works Co.
SPOKANE—FAIRBANKS, MORSE & Co. (Gas & Gasoline). (See adv. below)

WISCONSIN.

MANITOWOC—Gunnell Machine Co.
MILWAUKEE—ALLIS-CHALMERS CO. (See adv. index, end of book)
 Filer & Stowell Co.
 Nordberg Mfg. Co.

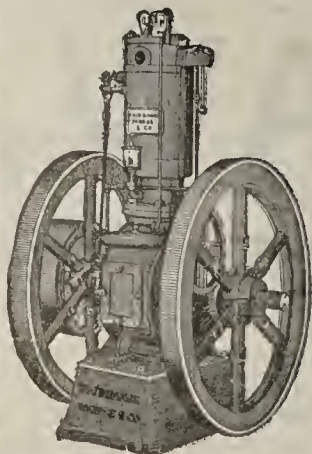
Engines (Hoisting, Contractors')

(See also Engines, Hoisting)

AMERICAN HOIST & DERRICK CO., St. Paul, Minn. (See adv. index & branch offices, end of book)
 Bacon, Earle C., 26 Cortlandt, New York
BYERS, JOHN F., MACHINE CO., Ravenna, O. (See adv. index, end of book)
 Columbus Elevator & Machine Co., Curtis & Jefferson avs., Columbus, O.
 Contractors Plant Mfg. Co., 129 Erie, Buffalo, N. Y.
CONTRACTORS' SUPPLY & EQUIPMENT Co., Old Colony bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
DOBBIE FOUNDRY & MACHINE CO., Main Office & Works, Niagara Falls, N. Y. (See adv. index & branch offices, end of book)
FLORY, S. MFG. CO., Bangor, Pa. (See adv. index, end of book)
 Haiss, Geo. Mfg. Co., 141st & Rider av, New York
 Hendy, Joshua Works, Bay & Kearney, San Francisco, Cal.
LAMBERT HOISTING ENGINE CO., Main Office & Works, 115-121 Poinier, Newark, N. J. (See adv. index & branch offices, end of book)
LIDGERWOOD MFG. CO., 96 Liberty, N. Y., & Old Colony bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
McKEOWN, H. J., 248 Butler, Cincinnati, O. (See adv. index, end of book)
MEAD-MORRISON MFG. CO., Cambridge (Boston), Mass. (See adv. index & branch offices, end of book)
NATIONAL HOISTING ENGINE CO., Manor av. & Bergen, Harrison, N. J. (See adv. index, end of book)
MONIGHAN'S MACHINE WORKS, 813 Carroll av, Chicago. (See adv. index, end of book)
MUNDY, J. S., 22 Prospect, Newark, N. J. (See adv. index & branch offices, end of book)
 Orr & Semberower, Reading, Pa. (See adv. index, end of book)
NATIONAL HOISTING ENGINE CO., Harrison, N. J. (See adv. index, end of book)
N. Y. CABLEWAY & ENGINEERING Co., 1 Rector, New York. (See adv. index, end of book)
 Parker Hoist & Machine Co., 971 N Francisco av, Chicago, Ill.
PELHAM HOD ELEVATING CO., 416 W 26th, New York. (See adv. index, end of book)
SHAW, WILLIS, 171 Lasalle, Chicago, Ill. (See adv. preceding page)
 South Baltimore Steel Car & Foundry Co., Baltimore, Md.
 Vulcan Iron Works Co., Toledo, Ohio.
WATSON, BENJAMIN, 66 Beaver, New York. (See adv. index, end of book)

Engines (Hoisting, Gas or Gasoline)

Bauroth Bros., Springfield, O.
 Central City Iron Works, Stevens Point, Wis.
 Charter Gas Engine Co., Sterling, Ill.
 Columbus Machine Co., Columbus, Ohio.

**FAIRBANKS, MORSE & CO.**

Manufacturers of
PUMPING ENGINES,
HOISTING ENGINES,
MARINE ENGINES,
ELECTRIC UNITS, A. C. or D. C.
AIR COMPRESSORS (Tandem Type)

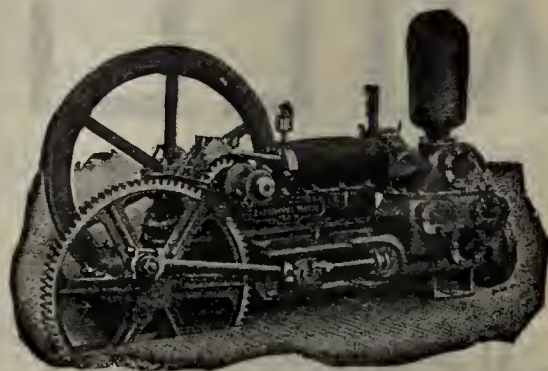
Using Gas, Gasoline, Kerosene or Alcohol for fuel

SEND FOR CATALOG NO. 445 G E.

12 DEY ST., NEW YORK, N. Y.

CHICAGO, ILL.

LONDON, ENG.



FAIRBANKS, MORSE & CO. (Gas, Gasoline & Oil), Franklin & Monroe, Chicago, Ill. (See adv. on preceding page; branch offices, end of book)

Flinchbaugh Mfg. Co., York, Pa.

Ft. Wayne Foundry & Machine Co., Ft. Wayne, Ind.

Lake Shore Engine Works Co. (Gasoline, Hoisting & Pumping), Marquette, Mich.

Model Gas Engine Works, Peru, Ind.

Root & Vandervoort Engineering Co., East Moline, Ill.

Stickney, Chas. A. Co., St. Paul, Minn.

Union Gas Engine Co. ("Union"), San Francisco, Cal.

Washington Iron Works Co. (Steam & Electric), Seattle, Washington

Weber Gas Engine Co., Kansas City, Mo.

Witte Iron Works Co., Kansas City, Mo.

*Engines (Hoisting Pneumatic)

INGERSOLL-RAND CO., 11 B'way, New York (See adv. index & branch offices end of book)

Engines (Hot Air Pumping)

American Machine Co. (Denney Improved Rider-Ericsson), Wilmington, Del.

BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)

Demarest, Jno. J., 143 Centre, New York

Lemmey, T. W. B., 410 W 54th, New York

Rider-Ericsson Engine Co., 35 Warren, N. Y.

Thomas & Smith ("Economy"), 17 S Carpenter, Chicago, Ill.

Wilmington Machine Co., Wilmington, Del.

Engines (Hydraulic, for Blowing Church Organs)

American Steam Pump Co., Battle Creek, Mich.

Engines (Hydraulic Pumping)

(See also Hydraulic Rams)

Niagara Hydraulic Engine Co., 140 Nassau, New York

*Engines (Incline Cableway)

MEAD-MORRISON MFG. CO., Cambridge (Boston), Mass. (See adv. index & branch offices, end of book)

N. Y. CABLEWAY & ENGINEERING Co., 1 Rector, New York. (See adv. index, end of book)

Engines (Logging)

Best Mfg. Co. (Traction), San Leandro, Cal.

Davenport Locomotive Works, Davenport, Ia.

FLORY, S. MFG. CO., Bangor, Pa. (See adv. index, end of book)

Hendy, Joshua Machine Works, San Francisco, Cal.

LAMBERT HOISTING ENGINE CO., Main Office & Works, 115-121 Poinier, Newark, N. J. (See adv. index & branch offices, end of book)

LIDGERWOOD MFG. CO., 96 Liberty, New York, & Old Colony bldg, Chicago, Ill. (See adv. index & branch offices, end of book)

Lima Locomotive & Machine Co., Lima, Ohio.

McKEOWN, H. J., 248 Butler, Cincinnati, O. (See adv. index, end of book)

MEAD-MORRISON MFG. CO., Cambridge (Boston), Mass. (See adv. index & branch offices, end of book)

MONIGHAN'S MACHINE WORKS, 813 Carroll av, Chicago. (See adv. index, end of book)

MUNDY, J. S., 22 Prospect, Newark, N. J. (See adv. index & branch office end of book)

NATIONAL HOISTING ENGINE CO., Harrison, N. J. (See adv. index & branch offices end of book)

N. Y. CABLEWAY & ENGINEERING Co., 1 Rector, New York. (See adv. index, end of book)

Phoenix Iron Works, Portland, Ore.

Portland Iron Works Co., Portland, Ore.

RUSSEL WHEEL & FOUNDRY CO., Detroit, Mich. (See adv. index, end of book)

Southern Engine & Boiler Works (Inc.), Jackson, Tenn.

Vulcan Iron Works, Wilkes-Barre, Pa.

Vulcan Iron Works Co., Seattle, Wash.

Washington Iron Works Co., Seattle, Wash.

Williamette Iron & Steel Works, Portland, Oregon

Engines (Marine, Alco-Vapor)

MARINE ENGINE & MACHINE CO. (Alco-Vapor), Main Office, 126 Liberty, New York. Works: Harrison, N. J. (See adv. index, end of book)

Engines (Marine, Gasoline)

(See also Engines, Automobile; also Engines, Gas or Gasoline; also Motor Boat, Launch & Yacht Builders)

Alpha Motor & Machine Co., Fall River, Mass.

American Gasoline Motor Co., Baldwinville, N. Y.

American Motor Co., Eau Claire, Wis.

Austin Auto Co., Grand Rapids, Mich.

Automatic Machine Co. ("Automatic"), Bridgeport, Conn.

Ayres Gasoline Engine & Automobile Works, Saginaw, Mich.

Barber Bros., 101 Grape, Syracuse, N. Y.

Barker, C. L., Norwalk, Conn.

Bauer Bros., 1916 Light, Baltimore, Md.

Beaver Mfg. Co. ("Beaver"), Milwaukee, Wis.

Belcher Motor Co. ("Belcher") 2 cycle, Fall River, Mass.

Benton, Thomas P., & Son, LaCrosse, Wis.

Boston Gasoline Engine Co. ("Reliance"), Boston, Mass.

Bowen & Quick ("Polly-Allen"), Auburn, N. Y.

Brennan Mfg. Co. (4-cylinder), Syracuse, N. Y.

Bridgeport Motor Co. (Inc.), Bridgeport, Conn.

Brown-Coebran Co. ("Lacy"), Loraine, O.

Brown-Talbot Machinery Co., Old South bldg, Boston, Mass.

Brownell-Trebert Co. ("Monarch"), Rochester, N. Y.

Bruce-Meriam-Abbott Co., Cleveland, O.

Buffalo Gasoline Motor Co., 1280 Niagara, Buffalo, N. Y.

Burt Mfg. Co., Kalamazoo, Mich.

Cailla Perfection Motor Co. ("Perfection"), 1301 2d av, Detroit, Mich.

Camden Anchor-Rockland Machine Co. ("Knox"), Camden, Me.

Central Iron Works, Quincy, Ill.

Chase Yacht & Engine Co., Providence, R. I.

Clark Mfg. Co., Fond du Lac, Wis.

Clinton, Walter R. (2 to 60 h. p.), West Haven, Conn.

Clipper Lawn Mower Co. (2 to 8 h. p.), Dixon, Ill.

Columbus Screw & Machine Co., 244 Kaiser, Columbus, O.

Cornwell, R. M. Co. ("Wouder"), Syracuse, N. Y.

Cooley Mfg. Co., Waterbury, Vt.

Corliss Gas Engine Co., 227 Folsom, San Francisco, Cal.

Craig, James, 556 W. 34th, New York

Creseent Machine & Tool Co., Indianapolis, Ind.

Cross, M. O., Engine Co., Detroit, Mich.

Crouch, Chas. P. Co., Inc. ("Junior"), 472 Carroll av, Chicago, Ill.

Cushman Motor Co., Lincoln, Neb.

Cyclone Drill Co., Orrville, O.

Daimler Mfg. Co. (Marine & Vehicle), Long Island City & 1777 B'way, N. Y. City

De Buren, Henri, 174 E 75th, New York

Delaware Machine Works, Wilmington, Del.

Delaware River Motor Co., Chester, Pa.

De Mooy Bros., 1831 E 55th, Cleveland, O.

Detroit Gas Engine & Machine Works, 46 E Congress, Detroit, Mich.

Dingfelder Motor Co., Detroit, Mich.

Doman, H. C. Co., Oshkosh, Wis.

Du Brie Motor Co., 436 Guoin, Detroit, Mich.

Duluth Gas Engine Works ("Little Giant"), Duluth, Minn.

Dutton Engineering Co., Perth Amboy, N. J.

Easternhouse Engine Co. ("Pearl"), 35 Vernon, Taunton, Mass.

Eclipse Motor Co., Mancelona, Mich.

Euterprise Machine Co., Minneapolis, Minn.

Erd Motor Co. (Gas), Saginaw, Mich.

Evarts Machine Co. (1½ h. p.), 14 Hicks, Hartford, Conn.

FAIRBANKS, MORSE & CO. (Gasoline & Oil), Franklin & Monroe, Chicago, Ill. (See adv. on preceding page; branch offices, end of book)

Fairfield Motor Co. ("Bull Pup"), Fairfield, Conn.

Fay & Bowen Engine Co., Geneva, N. Y.

Ferro Machine & Fdry Co., Wade bldg, Cleveland, O.

Fifield Bros. ("Capitol"), Buffalo, N. Y.

Frontier Engine Works, ft of Illinois, Buffalo, N. Y.

Gas Engine & Power Co., & Charles L. Seabury & Co. ("Speedway") also Naphtha, Morris Heights, N. Y.

Globe Iron Works Co. ("White"), Menomonie, Wis.

Goodell, Zina ("Naumkeag"), Salem, Mass.

Gordon, C. C. & Co., Dubuque, Ia.

Grand Rapids Gas Engine & Yacht Co. ("Mou-arch"), Grand Rapids, Mich.

Grant-Ferris Co., Troy, N. Y.

Gray Motor Co., 2 Leib, Detroit, Mich.

Gray & Prior Machine Co. ("Hartford"), Hartford, Conn.

Great Lakes Engineering Works, Detroit, Mich.

Greenville Implement Co., Greenville, Mich.

Hall Bros. Gas. Engine Works, 1120 Sigel, Philadelphia, Pa.

Harrington-Wiard Co., Batavia, N. Y.

Harvard Marine & Auto Co. ("Harvard"), Eliot st., Cambridge, Mass.

Hasbrouck Motor Works (4-cycle Marine, etc.), New London, Conn.

Heinel, H. A., Co. ("Diamond") 4 cycle, Wilmington, Del.

Hercules Gas Engine Works, San Francisco, Cal.

Herscheli-Spillman Co., North Tonawanda, N. Y.

Hildreth Motor & Pump Co., Lansing, Mich.

Holliday Mfg. & Engineering Co., 160 Bunker, Chicago, Ill.

Horton Boats (Inc.), Rochester, N. Y.

Howard Motor Works ("Thoroughbred"), Yonkers, N. Y.

Hubbard Motor Co. (2 & 4 cycle), Middletown, Conn.

Hurd & Haggin ("H. & H."), 316 Hudson, N. Y.

Jager, Chas. J. ("Jager") 4-cycle type, 281 Franklin, Boston, Mass.

Kablenberg Bros., Two Rivers, Wis.

Kowalsky Engine Co., Veroua, Pa.

Kumberger & Vreeland, 33 Sullivan, New York

Lackawanna Mfg. Co. (Valveless Reversible), Newburgh, N. Y.

Lake Shore Engine Works ("New Superior") 2 & 4 cycle, Marquette, Mich.

Lamb Boat & Engine Co., Clinton, Ia.

Landis, E. M. Gas Engine Works, Toledo, O.

Lathrop, Jas. W. & Co., Mystic, Conn.

Lawrence Machiue Co. (2 & 4 cycle), Lawrence, Mass.

Leighton, H. J., Syracuse, N. Y.

Leland & Faulcouer Mfg. Co., 480 Trombly av, Detroit, Mich.

Light Inspection Car Co., Hagerstown, Ind.

Lozier Motor Co. ("Lozier") 2 & 4-cycle, 55th & B'way, New York

Marine Power Co., Milwaukee, Wis.

Massuck Mfg. Co., River & Campbell, Detroit, Mich.

Maxwell & Fitch Co., Rome, N. Y.

Mead Gas Engine Co., Providence, R. I.

Mianus Motor Works, Mianus, Conn.

Michigan Motor Co. (4 cycle), Grand Rapids, Mich.

Michigan Steel Boat Co. (Marine), Detroit, Mich.

Milwaukee Auto Engine & Supply Co., Milwaukee, Wis.

Modern Motor & Machine Co., Detroit, Mich.

Montague Iron Works Co. (Gasoline), Montague, Mich.

Murray & Tregurtha Co., 340 W 1st, S. Boston, Mass.

New London Motor Co., New London, Conn.

N. Y. Yacht, Launch & Engine Co. ("20th Century"), Morris Heights, N. Y.

Noman, H. C., Co., Oshkosh, Wis.

Owen, E. F. ("Swampscott"), Lynn, Mass.

Page Engineering Co. ("Oriole") Gas, 1109 E. York, Baltimore, Md.

Palmer Bros., Cos Cob, Conn.

Palmer-Moore Marine Co., Syracuse, N. Y.

Parker, J. J., Co., 507 Erie, Fulton, N. Y.

Peerless Marine Engine Co. ("Peerless"), Cham. of Commerce, Detroit, Mich.

Perkins Launch & Motor Co. ("Ronomor"), Gloucester, Mass.

Pitt & Lienhardt ("S. & P.") Reversible Valveless, 213th & Harlem River, New York

Progressive Mfg. Co. ("Eagle") Explosive Type, 2 & 4 Cycle, 1 to 20 H. P., Torrington Conn.

Pungs-Finch Auto & Gas Engine Co. ("King") & "Sintz", Detroit, Mich.

Rathbun-Lacy Co. ("Ralaco"), 920 Water, Toledo, O.

Racine Boat Mfg. Co., Muskegon, Mich.

Regal Gasoline Engine Co., Coldwater, Mich.

R. I. Motor Co., Providence, R. I.

Rice, John V. & Co., Bordentown, N. J.

Rochester Gas Engine Co., Rochester, N. Y.

Royal Equipment Co. ("Royal"), 2 & 4 Cycle, Bridgeport, Conn.

Sanderson, Wm., 307 W. Willow, Syracuse.

Schaeffer, W. E., Ripon, Wis.

Scheppele Machine Works, Dubuque, Ia.

Seitz, F. A., Co., 149 Freylinhuysen av., Newark, N. J.

Sheffield Car Co., Three Rivers, Mich.

Smalley Motor Co. (Ltd.), Bay City, Mich.

Smith, Geo., Dr., Jr. ("Baldwin"), Freeport, Ill.

Smith Electrical Engineering Co. ("Boynton"), 1765 B'way, New York

Watertown, N. Y.

Smith & Mabley (Inc.), ("Simplex"), 7th av & 1765 B'way, New York
 Spanlding Engine Co. (2 cycle), St. Joseph, Mich.
 Stamford Motor Co. (Inc.) ("Snecker"), Stamford, Conn.
 Standard Motor Const. Co. (75 H.-P. up), 182 Whiton, Jersey City, N. J.
 Sterling Engine Co. ("Sterling"), 110 Grant, Buffalo, N. Y.
 St. Clair Motor Co., Detroit, Mich.
 St. Joseph Iron Works, St. Joseph, Mich.
 Stowe Mfg. Co., Wilmington, Del.
 Strelinger, Chas. A. Co. (Lannch), 96 Bates, Detroit, Mich.
 Strelinger Marine Co., 48 E. Port, Detroit, Mich.
 Stuart, John, Co., Wollaston, Mass.
 Temple Pump Co., 27 W. 15th Place, Chicago, Ill.
 Termaat & Monahan Co. (Reversing), Oshkosh, Wis.
 Terro Machine & Foundry Co. (small sizes), Cleveland, Ohio.
 Thomas, E. R., Motor Co., Buffalo, N. Y.
 Trenton Malleable Iron Co. ("Rice," 2 & 4 cycle), Trenton, N. J.
 Truscott Boat Mfg. Co., St. Joseph, Mich.
 Union Gas Engine Co. ("Union"), San Francisco, Cal.
 Union Iron Works, Oskosh, Wis.
 United Mfg. Co. ("Little Giant"), Detroit, Mich.
 United States Engine Works, Oskosh, Wis.
 Van Auker-Cleavac Co., Yonkers, N. Y.
 Westerfield Motor Co., Anderson, Ind.
 Ward-Watson Machine Co. (Warcoat"), Syracuse, N. Y.
 Waterman Ont-Board Motor Co., 23 Griswold, Detroit, Mich.
 Watkins, Frank M., Mfg. Co., 857 W. 6th, Cincinnati, Ohio.
 Western Motor Co. ("Rutenber"), Logansport, Ind.
 White-Blakeslee Mfg. Co., Birmingham, Ala.
 Wolverine Motor Works, Grand Rapids, Mich.
 Woodhaven Motor Works ("Louvet" 2 cycle), Woodhaven, N. Y.
 Yocum, A. H., & Co. ("Speedwell"), 216 Court, Reading, Pa.
 Young, W. J., Machinery Co. ("Essex"), 418 Union, Lynn, Mass.

Engines (Marine, Steam)

(This Trade is a Duplication of Engines, Steam)

American Ship Building Co., Cleveland, O.
 Astoria Iron Works (Inc.), Astoria, Ore.
 Atlantic Works, 70 Border, E. B., Boston, Mass.
 Bartlett, A. F. & Co., Saginaw, Mich.
 Bath Iron Works, Bath, Me.
 Bell Engineering Co., Camden, N. J.
 Brown & Miller, Jersey City, N. J.
 Burton & Johnson, 2301 Centre, N. W., Cleveland, Ohio.
 Chicago Ship Building Co., 101st & Calumet River, Chicago, Ill.
 Codd, E. J. Co., 700-708 S. Caroline, Baltimore, Md. (See adv. index, end of book)
 Columbia Engineering Works, Portland, Ore.
 Coulter & McKenzie Machine Co., Bridgeport, Conn.
 Cramp, Wm. & Sons., Ship & Engine Bldg. Co., Phila., Pa.
 Delaware River Iron Ship Building & Engine Works, Chester, Pa.
 Detroit Shipbuilding Co., Detroit, Mich.
 Dialogue, Jno. H. & Son, Camden, N. J.
 Dodge Bros., Detroit, Mich.
 Eastern Ship Building Co., Groton Point, Conn.
ELMES, CHAS. F. ENGINEERING Works (Automatic), Fulton & N Sangamon, Chicago, Ill. (See adv. index, end of book)
 Erie Pump & Engine Co. (Reversing), Erie, Pa.
 Evans, C. H. & Co., 183 Fremont, San Francisco, Cal.
 Fletcher, W. & A. Co., Hudson & 14th, Hoboken, N. J.
 Flynn, W. S., 74 Hudson, Jersey City, N. J.
 Forbes, W. D., Co., 3d & Hudson, Hoboken, N. J.
 Fore River Ship Building Co., Quincy, Mass.
 Golden State & Miners' Iron Works, San Francisco, Cal.
 Gunnell Machine Co., Manitowoc, Wis.
 Heffernan Engine Works, Seattle, Wash.
 Herrschoff Mfg. Co., Bristol, R. I.
 Honeyman, J. & Co., Portland, Ore.
 Kehoe, Wm. & Sons, Savannah, Ga.
 King Iron Works (Tront, Henry G., Prop.), 226 Ohio, Buffalo, N. Y.
 Kingsford Foundry & Machine Works, Oswego, N. Y.
 Lake City Engineering Co., Erie, Pa.
 Lake Erie Engineering Works (High Class), Buffalo, N. Y.
 Lea, Thos., New Brunswick, N. J.
 Lockwood Mfg. Co., E. B., Boston, Mass.
 MacKinnon Mfg. Co., Bay City, Mich.
 Manistee Iron Works Co., Manistee, Mich.

Maryland Steel Co., Sparrows Point, Baltimore, Md.
 Marvel, T. S. Shipbuilding Co., Newburgh, N. Y.
 Merrill-Stevens Co., Jacksonville, Fla.
 Midvale Steel Co., Main Office & Works, Nictown Philadelphia, Pa.
 Montagne Iron Works Co., Montague, Mich.
 Moran Eros. Co., Seattle, Wash.
MORRIS MACHINE WORKS, Baldwinville, N. Y. (See adv. index, end of book)
 Nash Bros. & Co., Ogdensburg, N. Y.
 Neafe & Levy Ship & Engine Bldg. Co., 1338 Beach, Philadelphia, Pa.
 New London Marine Iron Works, New London, Conn.
 Newport News Ship Building & Dry Dock Co., Newport News, Va.
 New York Safety Steam Power Co. (Vertical), 114 Liberty, N. Y.
 Northwestern Iron Works, Seattle, Wash.
 Orr & Sembover, Reading, Pa.
 Paine, Jas. H. & Son., Noank, Conn.
 Phoenix Iron Works, Portland, Ore.
 Pioneer Machine Works (Jas. Hartley, Prop.), 75 Delevan, Brooklyn, N. Y.
 Portland Co. (Compound & Triple Expansion), Portland, Me.
 Puget Sound Dry Dock Machine Co., Tacoma, Wash.
 Pusey & Jones Co., Wilmington, Del.
 Rae, Robert, 55 Liberty, New York
 Risdon Iron Works, San Francisco, Cal.
 Rogers, Jno. M. Works, Gloucester City, N. J.
 Royal Machine Co., 61 N. J. R. R. av, Newark, N. J.
 Schantz & Eckert, Perth Amboy, N. J.
 Sheriffs Mfg. Co., Milwaukee, Wis.
 Smith, Theodore & Sons Co., foot of Essex, Jersey City, N. J.
 Sterling Engine Co., 119 Grant, Buffalo, N. Y.
 Strond, Humphrey Mfg. Co., Hastings, Minn.
 Sullivan, Jno. W. (Compound & Triple Expansion), 827 E 9th, New York
 Superior Ship Building Co., Duluth, Minn.
 Terro Machine & Fdry. Co. (Small sizes), Cleveland, O.
 Thropp, Jno. E., Sons Co., Trenton, N. J.
 Toledo Foundry & Machine Co., Toledo, O.
 Toledo Ship Building Co., Toledo, O.
 Tront, H. G., 226 Ohio, Buffalo, N. Y.
 Union Iron Works, San Francisco, Cal.
 Vulcan Iron Works Co., Seattle, Wash.
 White, Robt., Engineering Wks., ft of Columbia Brooklyn, N. Y.
 Wickes Bros., Saginaw, Mich.
 Willamette Iron & Steel Works, Portland, Oregon

*Engines (Marine Railway)

MEAD-MORRISON MFG. CO. (Reversible Compound Geared, etc.), Cambridge (Boston), Mass. (See adv. index & branch offices, end of book)

Engines (Mining)

(See also Engines, Hoisting; also Engines, Hoisting, Gas & Gasoline; also Hoists; also Locomotives)

BYERS, JOHN F. MACHINE CO., Ravenna, O. (See adv. index, end of book)
 Denver Engineering Works Co. (Direct Acting), Blake & 30th, Denver, Colo.
FLORY, S. MFG. CO., Bangor, Pa. (See adv. index, end of book)
LAMBERT HOISTING ENGINE CO. Main Office and Works, 115 Poinier, Newark, N. J. (See adv. index & branch offices, end of book)
LIDGERWOOD MFG. CO., 96 Liberty, New York, & Old Colony bldg, Chicago. (See adv. index & branch offices, end of book)
McKEOWN, H. J., 248 Butler, Cincinnati, O. (See adv. index, end of book)
MEAD-MORRISON MFG. CO., Cambridge (Boston), Mass. (See adv. index & branch offices, end of book)
MONIGHAN'S MACHINE WORKS, 813 Carroll av, Chicago, Ill. (See adv. index, end of book)
 Morris, I. P. Co. (Hoisting), Beach & Ball, Phila., Pa.
MUNDY, J. S., 22 Prospect, Newark, N. J. (See adv. index & branch offices, end of book)
NATIONAL HOISTING ENGINE CO., Harrison, N. J. (See adv. index & branch offices, end of book)
 Nordberg Mfg. Co. ("Nordberg" Hoisting Engines, capacity, 45,000 lbs.), Milwaukee, Wis.
SHAW, WILLIS (Hoisting), 171 La Salle, Chicago, Ill. (See adv. index, end of book)
 Traylor Engineering Co. (Hoisting), 114 Liberty, New York

Engines Mounted on Wheels

(See Engines, Portable on Wheels)

Engines (Naphtha)

Gas Engine & Power Co. & Chas. L. Seabury & Co., Morris Heights, N. Y.

Engines (Oil)

(See also Engines, Alcohol)

Acme Oil Engine Co., Bridgeport, Conn.
 American Diesel Engine Co. (Crude & Fuel Oil), 75 to 225 H.-P.), 11 B'way, New York
 American Foundry Co., Leipsic, O.
 American & British Mfg. Co. ("O. K." Kerosene 4 to 60 h. p.), Providence, R. I.
 Ams Max Machine Co. (Kerosene), Mt. Vernon, N. Y.
 Charter Gas Engine Co., Sterling, Ill.
 Corliss Gas Engine Co., 227 Folsom, San Francisco, Cal.
 De La Vergne Machine Co. ("Horusby-Akroyd"), ft E 138th, New York
 Economist Gas Engine Co. (Crude Oil), San Francisco, Cal.
FAIRBANKS, MORSE & CO. (Kerosene or Crude Oil), Franklin & Monroe, Chicago, Ill. (See adv. index & branch offices, end of book)
 Fay & Bowen Engine Co. (Kerosene), Geneva, N. Y.
 Grand Rapids Gas Engine & Yacht Co. (Kerosene), Grand Rapids, Mich.
 Greendale Gas Engine Co., Worcester, Mass.
 Imperial Gas Engine Co. (Crude Oil, up to 120 h. p.), 60 Clementina, San Francisco, Cal.
 International Oil Engine Co., 38 Murray, New York
MARINE ENGINE & MACHINE CO. ("Secor" Kerosene all sizes), Main Office, 126 Liberty, New York. Works: Harrison, N. J. (See adv. index, end of book)
 Meitz, August (Kerosene, also Gas), 128 Mott, New York
 New York Kerosene Oil Engine Co., 31 Burling-slip, New York
 Reading Oil & Gas Engine Co., Reading, Pa.
 Rochester Machine Tool Works ("Acme"), Rochester, N. Y.
 Roteng Engineering Corporation, 299 B'way, St. Marys Machine Co., St. Marys, O. N. Y.
 Strang Engine Co. (Kerosene, 3, 5 & 7 h. p., 4 Cycle, Vertical Water Cooled), 140 Dearborn, Chicago, Ill.
 Temple Pump Co., 27 W 15th pl, Chicago, Ill.
 Weher Gas Engine Co., 700 Delaware, Kansas City, Mo.

*Engines (Oil Well Drilling)

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)
OIL CITY BOILER WORKS (Inc.), Oil City, Pa., & 39 Cortlandt, New York. (See adv. index, end of book)
OIL WELL SUPPLY CO., 215 Water, Pittsburg, Pa. (See adv. index, end of book)

*Engines (Pile Driving)

(See also Engines, Hoisting)

AMERICAN HOIST & DERRICK CO., St. Paul, Minn. (See adv. index & branch offices, end of book)
LAMBERT HOISTING ENGINE CO., 115 Poinier, Newark, N. J. (See adv. index & branch offices, end of book)
LIDGERWOOD MFG. CO., 96 Liberty, New York. (See adv. index & branch offices, end of book)
McKEOWN, H. J., 248 Butler, Cincinnati, O. (See adv. index, end of book)
MEAD-MORRISON MFG. CO., Cam- bridge, Boston, Mass. (See adv. index & branch offices, end of book)
NATIONAL HOISTING ENGINE CO., Harrison, N. J. (See adv. index & branch offices, end of book)
MONIGHAN'S MACHINE WORKS, 813 Carroll av, Chicago, Ill. (See adv. index, end of book)

Engines (Pneumatic)

(See Engines, Compressed Air; also Pneumatic Motors)

When writing to firms listed in this book please mention HENDRICKS' COMMERCIAL REGISTER

Engines (Portable)

This List is duplicated under the head of Engines, Steam.

CALIFORNIA.

SAN FRANCISCO—**LAMBERT HOISTING** Engine Co., Stewart & Folsom. (See adv. index, end of book)
Risdon Iron Works, Stewart & Folsom
Union Iron Works, Potrero

GEORGIA.

AUGUSTA—Lombard Iron Works & Supply Co.

ILLINOIS.

AURORA—**AMERICAN WELL WORKS.** (See adv. index, end of book)
BELLEVILLE—Harrison Machine Works ("Jumbo")
CHICAGO—**AMERICAN WELL WORKS.** 1st Nat'l Bank bldg. (See adv. index, end of book)
Anderson, Carl Co. (Portable, Gasoline, on Wheels), Huron, n w cor Kingsbury
Bilson, C. H. Co., 15 W Madison
LAMBERT HOISTING ENGINE CO., Old Colony bldg. (See adv. index, end of book)
LIDGERWOOD MFG. CO. (Hoisting), Old Colony bldg. (See adv. index, end of book)
JOLIET—Bates Machine Co.
PEORIA—Avery Mfg. Co. ("Avery")
Coleman Mfg. Co.

INDIANA.

EVANSVILLE—Hellman Machine Works
INDIANAPOLIS—Atlas Engine Works (10 to 40 h. p.)
Chandler & Taylor Co. (12 to 25 h. p.)
LA PORTE—Rumely, M. Co. (6 to 30 h. p.)
RICHMOND—Gaar, Scott & Co.
Richmond Machine Works (1 to 90 h. p.)
Robinson & Co.

IOWA.

BURLINGTON—Murray Iron Works Co. (Semi-Portable)

MASSACHUSETTS.

CAMBRIDGE—**LAMBERT HOISTING** Machine Co., 117 Main. (See adv. index, end of book)
MEAD-MORRISON MFG. CO. (See adv. index, end of book)

MICHIGAN.

KALAMAZOO—Clark Engine & Boiler Co. (6 to 25 h. p.)
PORT HURON—Port Huron Engine & Thresher Co. (Simplex & Compound)

MISSOURI.

JOPLIN—**AMERICAN WELL WORKS.** (See adv. index, end of book)
ST. LOUIS—St. Louis Well Machine & Tool Co., S Newstead av & Wabash R. R.

NEW JERSEY.

HARRISON—**NATIONAL HOISTING ENGINE CO.** (See adv. index, end of book)
JERSEY CITY—Maslin, Jno. & Son, 165 1st
NEWARK—**LAMBERT HOISTING ENGINE CO.,** Main Office & Works, 115-121 Polmier. (See adv. index, end of book)

NEW YORK.

ALBANY—Dedericks, P. K. Sons.
AUBURN—McIntosh, Seymour & Co.
BINGHAMTON—Shapley & Wells (3 to 15 h. p.)
NEW YORK—**AMERICAN WELL WORKS.** 2 Stone. (See adv. index, end of book)
LAMBERT HOISTING ENGINE CO., 85 Liberty. (See adv. index, end of book)
LIDGERWOOD MFG. CO. (Hoisting), 96 Liberty. (See adv. index, end of book)
OIL CITY BOILER WORKS (Inc.), of Oil City, Pa. (4 to 40 h. p.), 39 Cortlandt. (See adv. index, end of book)
OSWEGO—Ames Iron Works ("Vim," 6 to 50 h. p.)
SCHENECTADY—Westinghouse Co.

OHIO.

CINCINNATI—Smith, Myers & Schnler (16 to 50 h. p.), 621 W Front
COLUMBIANA—Enterprise Mfg. Co.
DAYTON—Brownell Co. (2 to 40 h. p.)
MANSFIELD—Aultman & Taylor Machinery Co.
MARION—Huber Mfg. Co.
MASSILLON—Russell & Co.
NEWARK—McNamar Machine Works (8 to 40 h. p.)
Scheidler Machine Works Co. (8 to 40 h. p.)
SPRINGFIELD—Kelly, O. S. Co.

PENNSYLVANIA.

ERIE—Bay State Iron Works
Erie City Iron Works (Throttling, 15 to 55 h. p.; also on Sklds)
Erle Engine Works (6 to 50 h. p.)
Nagle Engine & Boiler Works (6 to 50 h.p.)
Skiuner Engine Co. (8 to 40 h. p.)
KENNETT SQUARE—American Road Machine Co.
OIL CITY—**OIL CITY BOILER WORKS (Inc.),** 4 to 40 h. p. (See adv. index, end of book)
PITTSBURG — **WESTINGHOUSE MACHINE CO.,** The (5 to 25 h. p.)
SCRANTON—Allis-Chalmers Co.
TATAMY—Messinger Mfg. Co.
WAYNESBORO—Frick Co.
Geiser Mfg. Co. (On Wheels or Sills)
WILLIAMSPORT—WilliamSPORT Gas Engine Co. (Gas & Gasoline)
YORK—Farquhar, A. B. Co. (4 to 50 h. p.)
Hench & Dromgold Co.

TENNESSEE.

CHATTANOOGA—Walsh & Weldner Boiler Co.
JACKSON—Southern Engine & Boiler Works (Inc.) (Portable, on Wheels), Jackson, Tenn.

TEXAS.

DALLAS—**AMERICAN WELL WORKS.** (See adv. index, end of book)

WISCONSIN.

MARINETTE—Stevens, A. W. Co.
MILWAUKEE—**ALLIS-CHALMERS CO.** (See adv. index, end of book)
RACINE—Case, J. I. Threshing Machine Co.

Engines (Portable Hoisting)

Bacon, Earle C., 26 Cortlandt, New York
Contractors Plant Mfg. Co., 129 Erle, Buffalo, N. Y.
DOBBIE FOUNDRY & MACHINE CO., Main Office & Works, Niagara Falls, N. Y. (See adv. index, end of book)
FLORY, S. MFG. CO., Bangor, Pa. (See adv. index, end of book)
LAMBERT HOISTING ENGINE CO., Main Office & Works, 115-121 Polmier, Newark, N. J. (See adv. index & branch offices, end of book)
LIDGERWOOD MFG. CO., 96 Liberty, New York, & Old Colony bldg., Chicago, Ill. (See adv. index & branch offices, end of book)
McKEOWN, H. J., 248 Butler, Cincinnati, O. (See adv. index, end of book)
MONIHAN'S MACHINE WORKS, 813 Carroll av, Chicago. (See adv. index, end of book)
NATIONAL HOISTING ENGINE CO., Harrison, N. J. (See adv. index, end of book)

Engines (Portable, on Wheels)

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)
Ames Iron Works ("Vim," Agricultural), Oswego, N. Y.
Aultman & Taylor Machinery Co., Mansfield, O.
Buffalo Pitts. Co., Buffalo, N. Y.
Case, J. I. Threshing Machine Co., Racine, Wis.
Climax Road Machine Co., Marathon, N. Y.
Enterprise Mfg. Co., Columbiana, O.
FAIRBANKS, MORSE & CO. (Gasoline), Franklin & Monroe, Chicago, Ill. (See adv. index & branch offices, end of book)
Farquhar, A. B. Co. (Ltd.), York, Pa.
Foos Gas Engine Co., Springfield, O.
Huber Mfg. Co., Marion, O.
Messinger Mfg. Co., Tatamy, Pa.
Salem Iron Works, Winstan, Salem, N. C.

Southern Engine & Boiler Works (Inc.), Jackson, Tenn.
Union Gas Engine Co. (Gas), San Francisco, Cal.
Williams Bros., Ithaca, N. Y.
WilliamSPORT Gas Engine Co. (Gas and Gasoline), WilliamSPORT, Pa.

Engines (Pumping)

(See Pumping Machinery.)

Engines (Pumping, Gas & Gasoline)

(See also Engines, Gas and Gasoline).
Advance Mfg. Co., Hamilton, O.
Allman Gas Engine & Machine Co., 29 Sullivan, New York
AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)
Badger Gas & Gasoline Engine Co., Kansas City, Mo.
Brown-Cochran Co., Lorain, O.
Buckeye Engine & Foundry Co., Joliet, Ill.
Capital City Gas Engine Co.
Cascaden-Vaughn Co. (Gasoline), Waterloo, Ia.
Challenge Co., Batavia, Ill.
Charter Gas Engine Co., Sterling, Ill.
Columbus Machine Co., Columbus, O.
FAIRBANKS, MORSE & CO., Franklin & Monroe, Chicago, Ill. (See adv. index & branch offices, end of book)
Famous Mfg. Co., East Chicago, Ind.
Foos Gas Engine Co., Springfield, O.
Flinchbaugh Mfg. Co., York, Pa.
Globe Iron Works Co., Menomonic, Wis.
Holliday Mfg. & Engineering Co., 160 Bunker, Chicago, Ill.
International Harvester Co. of America (Gasoline), 7 Monroe, Chicago, Ill.
Lambert Gas & Gasoline Engine Co., Anderson, Ind.
Model Gas Engine Works, Peru, Ind.
Montague Iron Works Co. (Gasoline), Montague, Mich.
New Era Gas Engine Co., Dayton, O.
New Way Motor Co., Lansing, Mich.
OIL WELL SUPPLY CO., 215 Water, Pittsburg, Pa. (See adv. index, end of book)
Olds Gas Power Co., Lansing, Mich.
Otto Gas Engine Works (Gas), 33d & Walnut, Phila., Pa.
Peerless Motor Co., Lansing, Mich.
Regal Gasoline Engine Co., Coldwater, Mich.
Root & Vandervoort Engineering Co., East Moline, Ill.
Springfield Gas Engine Co., Springfield, O.
Standard Pump & Engine Co., Cleveland, O.
Stickney, Chas. A. Co. (for Railroad Service, etc.), St. Paul, Minn.
Stover Engine Works, Freeport, Ill.
Warner Elev. Mfg. Co. ("Warner"), Warner, Ill.
Waterous Engine Works Co., St. Paul, Minn.
Weber Gas Engine Co., Kansas City, Mo.
Weinman Machine Works, Columbus, Ohio.
White-Blakeslee Mfg. Co., Birmingham, Ala.
Witte Iron Works Co., Kansas City, Mo.
WilliamSPORT Gas Engine Co., WilliamSPORT, Pa.

Engines (Reversing)

(See also Engines, Rolling Mill)

ALLIS-CHALMERS CO. (Horizontal & Vertical), Milwaukee, Wis. (See adv. index & branch offices, end of book)
BUCKEYE ENGINE CO., Salem, O. (See adv. index, end of book)
Hogg, Geo. A. Iron & Steel Foundry Co. ("Aetna"), 24th & A. V. R'y, Pittsburg, Pa.
Mackintosh, Hemphill & Co., ft. of 12th, Pittsburg, Pa.
Mesta Machine Co., Pittsburg, Pa.
Southwark Foundry & Machine Co., Passyunk Station, Philadelphia, Pa.
Tod, Wm. Co. (Twin Cylinder and Twin Tandem Compound), Youngstown, O.
WELLMAN-SEEVER-MORGAN CO., Cleveland, O., & Akron, O. (See adv. index, end of book)

Engines (Rocking Valve)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

Engines (Rolling Mill)

(See also Rolling Mill Machinery)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)
Cooper, C. & G. Co., Mt. Vernon, O.
Frick Co., Waynesboro, Pa.
Hogg, Geo. A. Iron & Steel Foundry Co. ("Aetna"), Pittsburg, Pa.
Hooven, Owens & Rentschler Co., Hamilton, O.
Mackintosh, Hemphill & Co. (also Blast Furnace), Pittsburg, Pa.
Mesta Machine Co., Pittsburg, Pa.

MINNEAPOLIS STEEL & MACHIN-
ery Co., Minneapolis, Minn. (See adv.
index and branch offices, end of book)
Newbold, R. S. & Son Co., Norristown, Pa.
Portland Co., Portland, Me.
Reading Iron Co., Reading, Pa.
St. Louis Iron & Machine Works, St. Louis, Mo.
Southwark Foundry & Machine Co., Phila., Pa.
Tod, Wm. Co., Youngstown, O.
WELLMAN-SEEVER-MORGAN CO.
Cleveland, O., & Akron, O. (See adv. in-
dex, end of book)
West Penn Foundry & Machine Co., Avonmore,
Wisconsin Engine Co., Corliss, Wis. Pa.

Engines (Self-Oiling)

Russell Engine Co., Massillon, O.

Engines (Steam)

All other Lists of Engine Builders in this
book are duplicates of this List, excepting
Engines, Gas & Gasoline of various kinds, and
Engines, Traction; Engines, Oil; Engines, Hot
Air; Engines, Hoisting, & Locomotive Build-
ers.

ALABAMA.

BIRMINGHAM—Birmingham Machine & Foundry Co., E B'ham
Continental Gin Co. (Inc.)
Hardie-Tynes Mfg. Co.
Williamson Iron Co.
MONTGOMERY—Janney, A. A. & Co.
NEW DECATUR—North Alabama Engineering Co. (Heavy Duty, Balance Slide Valve)
SELMA—Peacock's Iron Works.
Union Iron Works Co.

ARKANSAS.

FORT SMITH—Ketcham Iron Co.
LITTLE ROCK—Wehrfritz, E. C. Machinery & Wing & Stephens Co. Supply Co.

CALIFORNIA.

GRASS VALLEY—Taylor Bros.
LOS ANGELES—Fulton Engine Works, Quierola & Chavez
Union Iron Works, Moline & Palmetto
SAN FRANCISCO—California Hydraulic Engineering & Supply Co., 305 Market
Cyclops Iron Works, 223 Main
Evans, C. H. & Co. (Marine), 181 Fremont
Fulton Iron Works, 511 Market
Garratt, W. T. & Co., 138 Fremont
Golden State & Miners' Iron Works, 231 1st
Hendy, Joshua Machine Works, Bay & Kearney
Jackson, Byron Machine Works (Cross Compound), 411 Market
Krogh Mfg. Co., 17th and Capp
MINNEAPOLIS STEEL & MACHIN-
ery Co., 633 Monadnock bldg. (See adv.
index, end of book)
Murray Bros. Machine Works, 231 Folsom
Ohmen Engine Works, 17th & Capp
Risdon Iron Works, Steuart & Folsom
Union Iron Works (Automatic), Potrero
Vulcan Iron Works, 604 Mission
STOCKTON—Globe Iron Works (Inc.)

COLORADO.

DENVER—Card & Weber Machine Co., 1437
Blake
Davis, F. M. Iron Works Co., 723 Larimer
Denver Engineering Works Co., Blake & 30th
MINNEAPOLIS STEEL & MACHIN-
ery Co., 313 Exchange bldg. (See adv.
index, end of book)
Stearns-Roger Mfg. Co., 1718 California

CONNECTICUT.

BRIDGEPORT—American & British Mfg. Co. ("Corliss" or "Green Wheelock")
Coulter & McKenzie Machine Co. (Marine)
Pacific Iron Works (Inc.) (Automatic)
DERBY—United States Rapid-Fire Gun & Power Co. ("Francke")
HARTFORD—Hartford Engine Works
NEW BRITAIN—New Britain Machine Co. ("The Case" Automatic)
NEW HAVEN—Rowland Machine Co.
Twiss, N. W. (Automatic), 28 Whitney av
NEW LONDON—New London Marine Works
New London Gas & Electric Co.

DELAWARE.

WILMINGTON—Harlan & Hollingsworth Corporation (Marine)
Pusey & Jones Co. (Stationary)

FLORIDA.

JACKSONVILLE—Merrill-Stevens Co. (Marine)

GEORGIA.

ATLANTA—Fulton Foundry & Machinery Works
MACON—Schofield, J. S. Sons Co.
NEWMAN—Cole, R. D. Mfg. Co.
SAVANNAH—Kehoe, Wm. & Sons

ILLINOIS.

AURORA—AMERICAN WELL WORKS. (See adv. index, end of book)
BELLEVIEW—Harrison Machine Works
CHICAGO—BUCKEYE ENGINE CO. (of Salem, O.), 204 Dearborn. (See adv. index, end of book)
Chicago Ship Building Co. (Marine), 101st & Calumet River
FAIRBANKS, MORSE & CO., c.
Franklin & Monroe. (See adv. index, end of book)
Haberkamp, Wm., 67 Wells
MINNEAPOLIS STEEL & MACHIN-
ery Co. (Cavanaugh-Darley Co., Rep.), 21
25 Plymouth ct. (See adv. index, end of book)
SHAW, WILLIS (New & Second hand), 171 La Salle. (See adv. index, end of book)
SULLIVAN MACHINERY CO., 1506
Railway Exchange. (See adv. index, end of book)
Vulcan Iron Works (Yacht & Tow Boat), 80 N Clinton
Wachs, E. H., Co. (Vertical), 160 Indiana
WESTINGHOUSE MACHINE CO. (of Pittsburg, Pa.), 171 La Salle

DECATUR—Oakes, Wm. L.
GALENA—Westwick, John & Son (2 to 20 h. p.)
GALESBURG—Frost Mfg. Co. (Automatic & Throttling, up to 200 h. p.)
JOLIET—Bates Machine Co. (Automatic & Throttling, up to 200 h. p.)
KEWANEE—KEWANEE WATER SUPPLY Co. (See adv. index, end of book)
LITCHFIELD—Litchfield Foundry & Machine Co.
MATTOON—Chuse Engine & Mfg. Co.
PEORIA—Armstrong, Jas. C.
Avery Mfg. Co.
Buffalo Pitts Co. (of Buffalo, N. Y.)
Coleman Mfg. Co.
QUINCY—Quincy Engine Works (Corliss & Vertical Automatic Compound, 400 to 2,500 h. p.)
SPRINGFIELD—Ide, A. L. & Sons (Automatic Self-Oiling, Simple & Compound)
STREATOR—Graves, L. L.

INDIANA.

ANDERSON—Anderson Foundry & Machine Works
ANGOLA—Angola Engine & Foundry Co.
BLUFFTON—Grimes, G. W. Co.
BRAZIL—Crawford & Mc Crimon Co.
EVANSVILLE—Grote Mfg. Co.
Heilman Machine Works
Holtz, Ferdinand
FORT WAYNE—Fort Wayne Foundry & Machine Co. (Automatic)
INDIANAPOLIS—Atlas Engine Works (Automatic, 10 to 2,500 h. p.)
Chandler & Taylor Co. (Automatic Cut-off, Plain Slide Valve, Tandem Compounds, Single Valve, Four Valve, Throttling, Simple, Self Contained, Heavy Duty, Splash Oiling, High Speed, etc.)
Howe Engine Co., c Hillside & Bloyd avs
Sinker-Davis Co., 270 S Missouri
LAFAYETTE—Wallace Machine & Foundry
RICHMOND—Gaar, Seott & Co. (Ltd.) Co.
Quaker City Machine Co.
Richmond Machine Works ("Automatic," Robinson & Co. 6 to 75 h. p.)
TERRE HAUTE—O'Neil & Son
Prox, Frank Co.

IOWA.

BURLINGTON—Murray Iron Works Co. (Center Crank, etc.)
CEDAR RAPIDS—Carmody, J. T.

COUNCIL BLUFFS—Sprague Foundry & Mfg. Co. (Automatic) (Ogden)
DAVENPORT—Davenport Fdry & Mach. Co. (Automatic & Plain)
DES MOINES—Des Moines Mfg. & Supply Co.
MARSHALLTOWN—Shorthill, A. E. Co.
OTTUMWA—Ottumwa Iron Works (also Air)

KANSAS.

ABILENE—Parker, C. W. Amusement Co.
ENTERPRISE—Ehram, J. B. & Sons Mfg. Co.
KANSAS CITY—Riverside Iron Works Co.

KENTUCKY.

COVINGTON—Houston, Stanwood & Gamble Co. (Throttling, Standard, Duty, etc.)
LEXINGTON—Lexington Engine & Saw Mill Works
LOUISVILLE—Grainger & Co., 129 10th
Vogt, Henry Machine Co.

LOUISIANA.

NEW ORLEANS—Connell, J. D. Iron Works Co.
Johnson Iron Works (Ltd.), Julia & Delta
MINNEAPOLIS STEEL & MACHIN-
ery Co., 41 Hemenr bldg. (See adv. index, end of book)
Murphy, Jno. H. Iron Works, 633 Magazine
Shakespeare Iron Works, 913 Girod
SHREVEPORT—Henderson W. K. Iron Works & Supply Co.

MAINE.

BATH—Bath Iron Works
HALLOWELL—Davenport, S. F. (Yacht)
Fuller's, G. Sons
MECHANIC FALLS—Penney, J. W. & Sons Co. ("Automatic," 8 to 35 h. p.)
PORTLAND—Adde & Co., 59 Kennebec
Orr & Jennings, 311 Fore
Portland Co. (10 to 300 h. p.), 58 Fore

MARYLAND.

BALTIMORE—Codd, E. J. Co., 700-708
S Caroline, Baltimore Md. (See adv. index, end of book)
Murray, James & Son, 102 E York
Zies, Chas., 318 S Fremont av
CUMBERLAND—McKaig, Merwin (10 to 100 h. p.)
SPARROWS POINT—Maryland Steel Co. (Marine, etc.)

MASSACHUSETTS.

BOSTON—Atlantic Works (Marine), 70 Border
E. B.
Bertelson & Peterson, 140 Border, E. B.
Clark, Edward S., 272 Freeport, Dor.
Cooley General Development Co. ("Cooley"), Jamaica Plain
Fitzhenry, E. L. & Co., 36 Wash'n, N.
Lockwood Mfg. Co. (Marine), E. Boston
McLaughlin, Geo. G. Mfg. Co. (Automatic), 812 E. 6th
BRIDGEWATER—Continental Gin Co. (Inc.)
CAMBRIDGE—MEAD-MORRISON MFG. Co. See adv. index, end of book
FITCHBURG—Brown, C. H. Engine Co. (Automatic)
Fitchburg Steam Engine Co. ("Fitchburg," Automatic, Simple & Compound Vertical, Horizontal & High Speed)
Putnam Machine Co. ("Automatic," 20 to 650 h. p.)
HOLYOKE—Perkins, B. F. & Sons
HYDE PARK—Sturtevant, B. F. Co.
LAWRENCE—Lawrence Machine Co.
Lawrence Pump & Engine Co.
MARLBORO—Parsons, Henry & Son.
QUINCY—Fore River Ship Building Co. (Marine)
SPRINGFIELD—Ford, H.
Hannan & Finton
TAUNTON—Mason Machine Works
WORCESTER—Burlingame, A. Co. (High Speed Automatic & Semi-Portable)
Proctor, Bowen & Co., 42 Washington
Union Machine Co. (3 to 30 h. p.), 161 Union

MICHIGAN.

ALMA—Montigel, J. M.
ALPENA—Kline, Lewis T.
BAY CITY—MacKinnon Mfg. Co. (Marine)
Marine Iron Co.
COMSTOCK—Comstock Mfg. Co. ("Climax" Automatic High Speed, Self Contained Center Crank)

DETROIT—American Blower Co., 1400 Russell Detroit Shipbuilding Co.
Dodge Bros., 240 Monroe av
Fuller Co. ("Cornish Cycle" High Speed Automatic or Throttling)
Great Lakes Engineering Works, Rivard & Detroit River
Murphy Iron Works, ft Walker
GRAND RAPIDS—Leitelt, Adolph Iron Works
HANCOCK—Portage Lake Foundry & Machinery Co. (Stationary & Marine)
KALAMAZOO—Clark Engine & Boiler Co. (Horizontal & Vertical)
LAPEER—McDonald's, Wm. Sons
MANISTEE—Manistee Iron Works Co. (Twin Feed)
MARQUETTE—Lakeshore Engine Works (Inc.)
MONTAGUE—Montague Iron Works Co.
MUSKEGON—Rodgers Iron Mfg. Co.
PETOSKEY—Middleditch, Philip
SAGINAW—Bartlett, A. F. & Co. (Corliss, Slide Valve & Hoisting, etc.)
Jackson & Church Co.
Wickes Bros.
ST. JOHNS—Richmond & Holmes.

MINNESOTA.

DULUTH—Northwestern Steam Boiler & Mfg. Superior Ship Building Co. (Marine) Co.
MANKATO—Mankato Mfg. Co.
MINNEAPOLIS—Huber Mfg. Co. (of Marion, O.), 500 Washington av
**MINNEAPOLIS STEEL & MACHIN-
ery Co.** (Corliss) (See adv. index, end of book)
Waloff, E. G. Machine Works, 1700 N Washington av
ST. PAUL—Waterous Engine Works Co.

MISSISSIPPI.

CORINTH—Adams, W. T. Machine Co.
Corinth Engine & Boiler Works

MISSOURI.

JOPLIN—AMERICAN WELL WORKS.
(See adv. index, end of book)
Freeman Fdry. & Mfg. Co.
KANSAS CITY—MINNEAPOLIS STEEL & Machinery Co. ("Twin City"), 1302 W 14th. (See adv. index, end of book)
Strait, H. N. Mfg. Co. (Corliss, etc.)
ST. LOUIS—Chuse Engine & Mfg. Co., 721 Olive
Fritz, Geo. J. Foundry & Machine Co., 2008 S. 3d
Fulton Iron Works (Corliss, 30 to 5,000 h. p.), 2d & Carr
Harrisburg Foundry & Machine Works (of Harrisburg, Pa.), B'k Com. bldg
Johnson-Robinson Mach'y Co. (Corliss), 717 Kingsland Mfg. Co., 1521 N 11th N 2d
Ramling, Jno. Machine Co. (Corliss Automatic & Slide Valve), 300 S Main
St. Louis Iron & Machine Works (Corliss), 126 Chouteau av
St. Louis Steam Engine Co., 16 S Commer-
SPRINGFIELD—United Iron Works Co. clal

NEBRASKA.

FREMONT—Fremont Foundry & Machine Co.
LINCOLN—Smith, R. L. Machine Works
OMAHA—Drake-Williams-Mount Co.
**MINNEAPOLIS STEEL & MACHIN-
ery Co.**, 1212 Harney (See adv. index, end of book)

NEW HAMPSHIRE.

LANCASTER—Thompson Mfg. Co.
NASHUA—Rollins Engine Co. ("Automatic" Cut-Off, 20 to 600 h. p.)

NEW JERSEY.

BOUND BROOK—American Engine Co. (American Ball Duplex Compound & Automatic)
BRIDGETON—Cox & Sons Co. (of Phila., Pa.)
CAMDEN—Dialogue, Jno. H. & Son (Marine) New York Ship Building Co.
ELIZABETH—Ball & Wood Co. (Automatic)
HOBOKEN—Fletcher, W. & A. Co., 3d c Hudson
Forbes, W. D. Co., 1300 Hudson son
JERSEY CITY—Smith, Theo. & Sons Co., ft Essex
NEWARK—Hewes & Phillips Iron Works, Orange c Ogden
LAMBERT HOISTING ENGINE CO., Main Office & Works, 115-121 Pointier. (See adv. index, end of book)

MUNDY, J. S., 22 Prospect. (See adv. index, end of book)
Skinner & Leary, 5 Railroad pl
Watts-Campbell Co. (Improved Corliss), 298 Ogden
PERTH AMBOY—Schantz & Eckert (Marine, etc.)

TRENTON—MacKenzie's Duncan Sons Co.
Reeves Engine Co. (Vertical, Cross, Compound & Horizontal Single Cylinder)
Thropp, John E. Sons Co. (Marine), ft of Lewis

NEW YORK.

ALBANY—Breslin Bros. 68 Church
Skinner & Arnold Co. (Marine & Stationary), 199 B'way

AMSTERDAM—Smeallie Bros.

AUBURN—McIntosh, Seymour & Co. (Automatic, Compound, Triple Expansion, Tandem, etc.)

BALDWINVILLE — **MORRIS MACHINE** Works (15 to 110 h. p.). (See adv. index, end of book)
BELMONT—Clark Bros. Co. (end of book)
BINGHAMPTON—Shapley & Wells (8 to 20 h. p.)

BROOKLYN—(See New York City, Borough of Brooklyn)
BUFFALO—Bell, David Engineering Works, Evans & Norton

Buffalo Engine Co., 272 Michigan
Buffalo Forge Co. (High Speed Automatic), 480 B'way
Buffalo Pitts Co.
Buffalo Tool & Machine Co., 176 Terrace
Farrar & Trefts (4 to 30 h. p.), 65 Perry
Frontier Engine Works, ft of Illinois
General Engine Co., Ellicott sq
King Iron Works (Trout, Henry G., Prop.) (Marine), 226 Ohio

Lake Erie Engineering Works (100 to 10,000 h. p.)

Queen City Engineering Co., 49 Illinois
Ruger, J. W. Mfg. Co., 228 Chicago
Whitman Mfg. Co., 180 Ohio

CLYDE—Wood, S. W. & Son
FISHKILL ON THE HUDSON—Fishkill Land-ling Machine Co. (Corliss)

NEWBURGH—Coldwell-Wilcox Co.
Newburgh Ice Machine & Engine Co. (Slide Valve)

NEW YORK CITY.

Borough of Brooklyn.

BROOKLYN—Pioneer Iron Works, 151 William
Pioneer Machine Works, 75 Delevan
White, Robt. Engineering Works, ft of Columbia

Boroughs of Manhattan & Bronx

NEW YORK—AMERICAN WELL W'KS., 2 Stone. (See adv. index, end of book)
American & British Mfg. Co. (of Providence, R. I.), 74 B'way

Ames Iron Works (16 to 100 h. p.), 85 Liberty. Works, Oswego, N. Y.

Ball & Wood Co. (Automatic Cut-Off, 50 to 500 b. p.), 17 Battery pl. Works, Elizabeth, N. J.

Bass Foundry & Machine Co., 141 B'way. Works, Fort Wayne, Ind.

Bates Machine Co., 95 Liberty. Works, Joliet, Ill.

BUCKEYE ENGINE CO., 39 Cortlandt. Works: Salem, O. (See adv. on following page)

Christie Iron Works, 518 E 18th
Cooper, C. & G. Co., 11 B'way, Works, Mt. Vernon, O.

De La Vergne Machine Co., 138th & E. R.
Empire State Engineering Co. ("Maxfield"), ft East 116th

Erie Engine Works (of Erie, Pa.), 136 Liberty

Filer & Stowell Co. (of Milwaukee, Wis.), 39 Cortlandt

Fitchburg Steam Engine Co., 42 B'way. Works: Fitchburg, Mass.

Frick Co., 30 Cortlandt. Works: Waynesboro, Pa.

Gas Engine & Power Co. & Chas. L. Seabury & Co., Morris Heights

Hamilton-Low Co. (to Order Only), 145 E 42d

Harrisburg Foundry & Machine Works, 114 Liberty. Works, Harrisburg, Pa.

Hooven, Owens, Rentschler Co. (100 to 500 h. p.), 39 Cortlandt. Main Office: Hamilton, O.

Houston, Stanwood & Gamble Co., 42 B'way Works: Covington, Ky.

Howard & Morse ("Solano" High Speed), 45 Fulton

Ide, A. L. & Sons (of Springfield, Ill.), 11 B'way

LAMBERT HOISTING ENGINE CO. (of Newark, N. J.), 85 Liberty. (See adv. index, end of book)

McIntosh, Seymour & Co., 26 Cortlandt. Works: Auburn, N. Y.

MacKenzie, Quarrier & Ferguson, 114 Liberty

N. Y. Safety Steam Power Co. ("Automatic," 15 to 200 h. p.), 114 Liberty

OIL CITY BOILER WORKS (Inc.), of Oil City, Pa. (20 to 150 h. p.), 39 Cortlandt. (See adv. index, end of book)

Phoenix Iron Works Co. ("Automatic," 20 to 600 h. p.), 135 B'way. Works, Meadville, Pa.

Providence Engineering Works (of Providence, R. I.), 42 B'way

St. Louis Iron & Machine Works (of St. Louis, Mo.), 135 B'way

Skinner Engine Co. (of Erie, Pa.), 95 Liberty

Star Drilling Machine Co. (Upright) (of Akron, O.), 104 Fulton

Straight Line Engine Co. (of Syracuse, N. Y.), 10 Barclay

Struthers-Wells Co., 26 Cortlandt. Works, Warren, Pa.

Sturtevant, B. F. Co., 131 Liberty. Works, Hyde Park, Mass.

Sullivan, Jno W. (Marine), 827 E 9th

TUOHY BROS. CO. (New & Second Hand), 95 Liberty. (See adv. index end of book)

Watertown Engine Co. (Slow Speed, Single, Double & Four Valve, High Speed, Corliss, Throttling & Automatic), 39 Cortlandt. Works, Watertown, N. Y.

WESTINGHOUSE MACHINE CO., The, 8 Bridge. Works, East Pittsburg, Pa.

Wing, L. J. Mfg. Co. (High Speed), 136 Liberty

Wisconsin Engine Co. (of Corliss, Wis.), 66 B'way

Borough of Queens.

LONG ISLAND CITY—L. I. Machine & Marine Construction Co., ft of East av

(END OF NEW YORK CITY.)

OGDENSBURG—Nash Bros. & Co.

OSWEGO—Ames Iron Works ("Vim & Regel" Automatic, Regel Throttling, Automatic High Speed, 10 to 500 h. p.)

Kingsford Foundry & Mach. Works

ROCHESTER—Rochester Machine Tool Works

SALAMANCA—Benedict Mfg. Co.

SYRACUSE—Barber Bros., 500 E Water
Sanderson, Wm., 307 W Willow

Straight Line Engine Co. (25 to 125 h. p.), 218 S Geddes

TONAWANDA—Gillie Engine & Machine Co. Mahar, Jno.

TROY—Knowlson & Kelly

UTICA—Utica Steam Engine & Boiler Works

VERNON—Pohl, Geo. D. Mfg. Co.

WATERTOWN—Watertown Engine Co. (High Speed, Corliss, Throttling & Automatic)

WELLSVILLE—Clark & Norton Mfg. Co.
McEwen Bros. (5 to 50 h. p.)

YONKERS—Ostrander Steam Rotary Engine Co. ("Ostrander Rotary"), 35 John

NORTH CAROLINA.

CHARLOTTE—Liddell Co. (Inc.) (Automatic)
Mecklenburg Iron Works

GREENSBORO—Sergeant Mfg. Co.

HIGH POINT—High Point Machine Works

WINSTON SALEM—Salem Iron Works (Centre Crank)

OHIO.

AKRON—Crown Drilling Machine Co. (2 to 30 h. p., Upright)

Star Drilling Machine Co. (Upright)
Taplin, Rice & Co.

WELLMAN-SEAEVER-MORGAN CO. (Automatic, Corliss, Hoisting, etc.). (See adv. index, end of book)

BUCYRUS—New York Blower Co.

CANTON—Knight Mfg. Co.

CINCINNATI—**BUCKEYE ENGINE CO.** (of Salem, O.), 111 Ingalls bldg. (See adv. on following page)

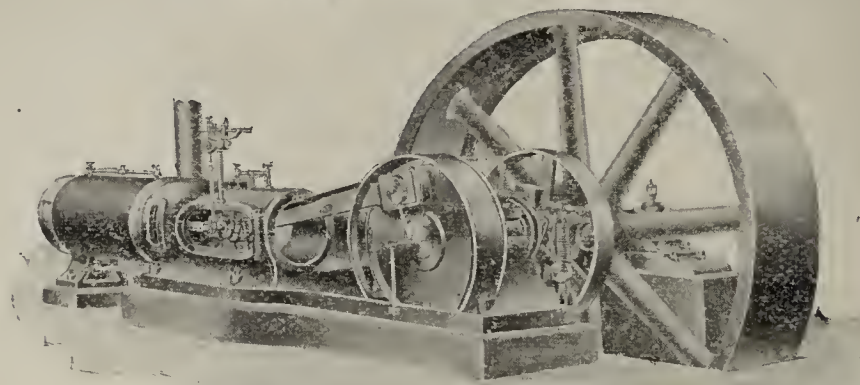
Frisble Engine & Machine Co., 35 E Water

Fritsch, Francis Mfg. Co., 223 W McMicken av

Greenwald, I. & E. Co. (Automatic & Throttling, Simple & Compound), 720 E Pearl

BUCKEYE ENGINE Co.

SALEM, OHIO, U.S.A.



STEAM ENGINE BUILDERS.

THE LARGEST LINE OF MODERN ENGINE PATTERNS IN THE WORLD.

SEND FOR ILLUSTRATED CATALOGUE.

Lane & Bodley Co. (Slide Valve, etc.), John c Water
Randle Machinery Co., Power & C. H. & D. R'y
Smith, Myers & Schnier Co., 621 W Front
Steigert, Leopold, cor Elder & Logan
CLEVELAND—American Ship Building Co. 2017 Superior av
BUCKEYE ENGINE CO. (of Salem, O.), New England bldg. (See adv. above)
Kilby Mfg. Co. (Automatic), Lake c Kirtland
Lord, Bowler Co., 1004 Center av
McMyler Mfg. Co., 1799 Columbus rd, N. W.
Macbeth Iron Co., Winslow & Center
Ohio Blower Co., 42 Michigan av
WELLMAN-SEEVER-MORGAN CO. (Automatic, Corliss, Hoisting, etc.). (See adv. index, end of book)
COLUMBIANA—Enterprise Mfg. Co. (Automatic, 25 to 200 h. p.); Center Crank, 25 to 45 h. p.)
DAYTON—Brownell Co. (Slide Valve)
Dayton Engine Works
HAMILTON—Hooven, Owens & Rentschlen Co.
IRONTON—Ironton Engine Co. (Corliss & Plain Slide Valve)
LIMA—Golley & Finley Iron Works
MANSFIELD—Aultman & Taylor Machinery Co.
MARIETTA—Pattin Bros. Co.
MARION—Huber Mfg. Co. (Single & Double, 5 to 30 h. p.)
MASSILLON—Russell Engine Co. (Automatic, Self-Oiling)
MOUNT VERNON—Cooper, C. & G. Co. ("Corliss", "Rolling Mill")
NELSONVILLE—Nelsonville Foundry & Machine
NEWARK—McNamar Machine Works Co.
POMEROY—Pomeroy Machine Co.
SALEM—BUCKEYE ENGINE CO. (Automatic, etc.). (See adv. above)
SANDUSKY—Klotz Machine Co. (10 to 150 h. p.)
SPRINGFIELD—Kelly, O. S. Co. (Automatic, 10 to 50 h. p., also Throttling)
Leffel, James & Co. (Automatic, 10 to 50 h. p., also Throttling)
Trump Mfg. Co. (10 to 50 h. p., also Throttling)
STEUBENVILLE—Irwin, Jas. O.
TOLEDO—Toledo Foundry & Machine Co., 202 Toledo Ship Building Co.
WELLSVILLE—Stevenson Co. 218 Cherry

WOOSTER—Barrett's B. Sons (5 h. p.)
YOUNGSTOWN—Tod, William Co. (Porter Hamilton, Corliss & Automatic High Speed)
United Engineering & F'dry Co. (Slide Valve & Corliss)
ZANESVILLE—Griffith & Wedge Co.

OREGON.

ALBANY—Albany Iron Works
ASTORIA—Astoria Iron Works
PORTLAND—Columbia Engineering Works,
Honeyman, J. & Co., 301 Front
Phoenix Iron Works (Marine), Hawthorne av & E 3d
Portland Iron Works, 495 Northrup
Willamette Iron & Steel Works

PENNSYLVANIA.

ALLEGHENY—CARLIN'S, THOS. SONS Co., 1300 River av. (See adv. index, end of book)
ALLENTOWN—GRAMMES, L. F. & SONS Mfrs. Agents, (See adv. index end of book)
AVONMORE—West Penn Foundry & Machine Co.
BANGOR—FLORY, S. MFG. CO. (Slide Valve, etc.). (See adv. index, end of book)
BRADFORD—Bovaird & Co.
Bovaird & Seyfang Mfg. Co.
Caldwell, E. R. & Co.
BUTLER—Evans Mfg. Co.
CHAMBERSBURG—Chambersburg Engineering Co.
CHESTER—Delaware River Iron Ship Building & Engine Works.
Wetherill, Robt. & Co. (Stationary)
CONNELLSVILLE—Connellsville Machine & Car Co.
CORY—Ajax Iron Works
Climax Mfg. Co. (Double Cylinder High Speed)
DANVILLE—Danville Foundry & Machine Co.
DUBOIS—DuBois, John E.
EAST STROUDSBURG—Stauffer, Geo. E.
ERIE—Ball Engine Co. (Single Valve, Automatic, 25 to 600 h. p.)
Bay State Iron Works
Erie City Iron Works (Four Valve Automatic Cut-off, High & Medium Speed, Sin-

gle Valve, Automatic Cut-off & Throttling Governor Engines)
Erie Engine Works (Automatic Cut-off, etc.)
Erie Mfg. & Supply Co. ("Erico" Self Oiling, Automatic)
Erie Pump & Engine Co.
Link, E. M. Machinery Co.
Nagle Engine & Boiler Works (6 to 50 h. p.)
Skinner Engine Co. ("Automatic," 8 to 60 h. p.)
FRANKLIN—Shepherd Engineering Co. (Heavy Dnty, Single & Multiple Expansion, 10 to 100 h. p.)
HAMBURG—Snell & Meharg
HARRISBURG—Harrisburg Fdy. & Machine Works ("Fleming" Side & Center Crank, Automatic)
KENNETT SQUARE—American Road Machine Co.
LANCASTER—Central Machine Works (Horizontal Slide Valve)
LEBANON—Weimer Machine Works Co.
MAHANOEY CITY—Grant Iron Works
MEADVILLE—Phoenix Iron Works Co. ("Automatic," 20 to 600 H. P.)
MONONGAHELA—Robinson Machine Co.
MT. CARMEL—Mt. Carmel Iron Wks.
NORRISTOWN—Newbold, R. S. & Son Co. (Slide Valve)
OIL CITY—OIL CITY BOILER WORKS (Inc.), 20 to 150 h. p. (See adv. index, end of book)
Oil Well Supply Co.
PHILADELPHIA—Baizley, Jno. Iron Works, 514 S Del av
Corliss Engine Works, 4041 N 5th
Cramp, Wm. & Sons Ship & Engine Bldg. Co. (Marine)
Kensington Engine Works (Ltd.) ("Automatic," 30 to 50 h. p.), Beach c E Berks
Naylor, Jno. S., Front c Girard av
Neafie & Levy Ship & Engine Bldg. Co. (Marine), 1336 Beach
Rich, J. & G., 120 N. 6th
Southwark Foundry & Machine Co. ("Automatic," Wash av c S 5th)
PITTSBURG—BUCKEYE ENGINE CO. (of Salem, O.), Arratt bldg. (See adv. above)
Combination Engine Co., 3148 Penn av
Fischer Foundry & Machine Co. (Automatic), Empire bldg

Hogg, Geo. A. Iron & Steel Foundry Co.
(For Rolling Mills, etc.), 24th & A. V. R'y
Mackintosh, Hemphill & Co. (Heavy Rolling
Mills, etc.), ft of 12th

Mesta Machine Co.

Milholland, J. & J. B. Co. (Hoisting, haul-
ing, etc.) 718 5th av

**MINNEAPOLIS STEEL & MACHIN-
ERY CO.**, 1007 Bessemer bldg (See adv
index, end of book)

Munroe, R. & Sons Mfg. Corporation, 23d &
Smallman

OIL WELL SUPPLY CO., 215
Water. (See adv. index, end of book)

Phillips & McLaren, 24th & Smallman

Rees, Jas. & Sons Co., 4th & Duquesne way

WESTINGHOUSE MACHINE CO.,
The, Westinghouse bldg

POTTSVILLE—Sparks & Parker

READING—Greth Machine Works (Inc.), (8 to
Orr & Sembower (Inc.) 15 h. p.)

Reading Iron Co.

Reading Scale & Machine Co.

RIDGWAY—Ridgway Dynamo & Engine Co.
(McEwen)

SCOTTDAL—Scottdale Foundry & Machine

SCRANTON—Allis-Chalmers Co. Co. (Corliss)
Flinch Mfg. Co.

SHAMOKIN—Mullen, John & Son

STROUDSBURG—Stroudsburg Engine Works

TATAMY—Messinger Mfg. Co. ("Automatic,"
3 to 25 h. p.)

TITUSVILLE—Titusville Iron Co.

Young, E. R. & Sons

TROY—Troy Engine & Machine Co. (Jno. A.
Parsons, Prop.)

WARREN—Struthers-Wells Co. (30 to 70 h. p.)

WAYNESBORO—Frick Co. (Automatic)
Geiser Mfg. Co. (8 to 30 h. p.)

WILKES-BARRE—Vulcan Iron Works (Auto-
matic)

WILLIAMSPORT—Rohlfuse-Howard Iron Works

Valley Iron Works (Inc.) (Automatic, High
Speed, Electric, Enclosed, Self-Oiling)

YORK—Farquhar, A. B. Co. (Ltd.). (Centre
Hench & Dromgold Crank)

Motter, Geo. F. & Sons

York Mfg. Co.

RHODE ISLAND.

BRISTOL—Herreshoff Mfg. Co. (Marine)

HOPE VALLEY—Nichols & Langworthy Ma-
chine Co.

PAWTUCKET—Cole Bros.

PROVIDENCE—American & British Mfg. Co.
("Corliss" or "Green Wheelock")

Crulckshank Engine Co., 286 Dyer

Excelsior Steam Eng. & Machine Co., 32
Fuller Iron Works Friendship

Harris, Wm. A. Steam Engine Co. (Corliss)

Providence Engineering Works ("Rice &
Sargent & Improved Greene")

SOUTH CAROLINA.

ANDERSON—Anderson Machine & Foundry Co.

CHARLESTON—Charleston Iron Works

Valk & Murdoch Iron Works

COLUMBIA—Willis, John A.

SPARTANBURG—Morgan Wood & Iron Works

TENNESSEE.

CHATTANOOGA—Casey-Hedges Co.

Lookout Boiler & Mfg. Co.

Walsh & Weidner Boiler Co.

Wheland Machine Works (Centre & Slide
Valve)

JACKSON—Southern Engine & Boiler Works
(Corliss Slide Valve & Center & Side Crank)

MEMPHIS—Chickasaw Iron Works, 2d c Win-
chester

Ellis, Wm. C. & Sons, 439 Shelby

NASHVILLE—Nashville Machine Co.

Stewart & Bruckner Co.

TEXAS.

DALLAS—AMERICAN WELL WORKS.
(See adv. index, end of book)

EL PASO—MINNEAPOLIS STEEL &
Machinery Co., 505 Guaranty Trust Bldg.

(See adv. index, end of book)

FORT WORTH—Van Zandt-Moore Iron Works

GALVESTON—Astall Iron Works Co.

McDonough Iron Works

Walsh & Cleary

SHERMAN—Washington Iron Works

UTAH.

SALT LAKE CITY—Silver Bros. Iron Works

Trent Engineering & Machinery Co. Co.

VIRGINIA.

ALEXANDRIA—Aitcheson, J. & H.

NEWPORT NEWS—Newport News Ship Build-
ing & Dry Dock Co.

NORFOLK—Duvall, Geo. W. & Co.

Godwin, Thos. W. & Co.

Smith & McCoy

WASHINGTON.

SEATTLE—Heffernan Engine Works

Moran Bros. Co.

Northwestern Iron Works

Vulcan Iron Works

Washington Iron Works Co. (Slide Valve)

SPOKANE—National Iron Works (Inc.)

Union Iron Works (Inc.)

TACOMA—Puget Sound Dry Dock & Mach. Co.

Puget Sound Iron & Steel Works, A c 21st

WEST VIRGINIA.

CLARKSBURG—Osborne, J. F. & Sons

PARKERSBURG—U. S. Engine Co.

WISCONSIN.

CORLISS—Wisconsin Engine Co.

EAU CLAIRE—Phoenix Mfg. Co. ("Heavy
Duty, Rocking Valve Slide")

FOND DU LAC—Giddings & Lewis Mfg. Co.

MANITOWOC—Richards Iron Works

MILWAUKEE—ALLIS-CHALMERS CO.
Corliss, Simple Compound, Tandem & Triple
Expansion, etc. (See adv. index, end of
book)

Bayley, Wm., & Sons Co., 732 Greenbush

Filler & Stowell Co. (Slide Valve, Rocking
Valve, etc.)

Milwaukee Dry Dock Co.

NATIONAL BLOWER WORKS.
17th & St. Paul av. (See adv. index,
end of book)

Nordberg Mfg. Co. (Automatic)

Schneek Machine Co., 809 St. Paul av

Sheriffs Mfg. Co.

VILTER MFG. CO., 1046 Clinton.
(See adv. index, end of book)

OSHKOSH—United States Engine Works

RACINE—Pierce Engine Co.

RHINELANDER—Rhinelander Iron Co.

SHEBOYGAN—Optenberg & Sonnemann

SUPERIOR—Superior Ship Building Co. (Ma-
rine)

Engines (Steam Turbine)

(See Turbines, Steam.)

Engines (Toy or Small)

H. K. Electric Toy Co. ("H. K." Electric Toy
Engines & Novelties), Indianapolis, Ind.

Sipp Electric & Machine Co. (1/4 to 2 h. p.),
Paterson, N. J.

Engines (Traction)

(See also Agricultural Implement Mfrs.)

CALIFORNIA.

SAN FRANCISCO—McLaughlin Mfg. Co.

SAN LEANDRO—Best Mfg. Co. (For Freight-
ing)

STOCKTON—Hoit Mfg. Co.

ILLINOIS.

AURORA—AMERICAN WELL WORKS.
(See adv. index, end of book)

BELLEVIEW—Harrison Machine Works ("Jum-
peoria—Avery Mfg. Co. ("Avery") bo")

Coleman Mfg. Co.

Wright Machine Co.

INDIANA.

COLUMBUS—Reeves & Co.

EVANSVILLE—Heilman Machine Works

LA PORTE—Rumely, M. Co. (8 to 12 h. p.)

MOUNT VERNON—Keck-Gounerman Co.

RICHMOND—Gaar, Scott & Co.
Robinson & Co. (Inc.)

IOWA.

CHARLES CITY—Hart-Parr Co. (Oil Cooled
Gasoline)

DES MOINES—Wood Bros. Steel Self Feeder

WATERLOO—Cascaden-Vaughan Co. Co.

MICHIGAN.

BATTLE CREEK—Advance Thresher Co., Bat-
Nichols & Shepard Co. the Creek, Mich.

BATTLE CREEK—Advance Thresher Co.
Nichols & Shepard Co.

LANSING—Olds Gas Power Co. (Gasoline)

PORT HURON—Port Huron Engine & Thresher
Co. (Simple & Compound)

MINNESOTA.

MINNEAPOLIS—Minneapolis Threshing Ma-
chine Co.

STILLWATER—Northwest Thresher Co.

NEW YORK.

ALBANY—Dederick's, P. K. Sons

BUFFALO—Buffalo Pitts Co.

GROTON—Monarch Road Roller Co. ("Mon-
arch")

ITHACA—Lang & Button

SCHENECTADY—Westinghouse Co.

OHIO.

CANTON—Aultman Engine & Thresher Co.

COLUMBUS—Columbus Machine Co. (Gasoline)

HAMILTON—Empire Machine Co.

MANSFIELD—Aultman & Taylor Machinery
Co., (8 to 2 5h. p. Spur Gear)

MARION—Fairbanks Steam Shovel Co.
("Loba")

Huber Mfg. Co. (Single & Double, 5 to 30
h. p.)

Marion Mfg. Co. ("Leader")

MASSILLON—Russell & Co.

NAPOLEON—Morningstar Mfg. Co.

NEWARK—McNamar Machine Works

Scheidler Machine Works Co. (10 to 16 h.p.)

SPRINGFIELD—Kelly, O. S. Co.

SWANTON—Baker, A. D. Co.

PENNSYLVANIA.

TATAMY—Messinger Mfg. Co.

WAYNESBORO—Frick Co. (Wood & Coal)

Geiser Mfg. Co. (Wood & Coal)

WRIGHTSVILLE—Dissinger, C. H. A. & Bro.

YORK—Farquhar, A. B. Co. (Ltd.), York, Pa.

WEST VIRGINIA.

PARKERSBURG—United States Engine Co.

WISCONSIN.

MARINETTE—Steveus, A. W. Co.

MILWAUKEE—VILTER MFG. CO., 1046
Clinton. (See adv. index, end of book)

RACINE—Case, J. I. Threshing Machine Co.

Engines (Traction, Gasoline)

Advance Mfg. Co. ("Hamilton Advance"), Ham-
ilton, O.

AMERICAN WELL WORKS ("Au-
rora"), Aurora, Ill. (See adv. index &
branch offices, end of book)

Angola Engine & Foundry Co., Angola, Ind.

Badger Gas & Gasoline Engine Co., Kansas City.

Bawroth Bros., Springfield, O. Kau.

Dissinger, C. H. A. & Bro. ("Capital"),
Wrightsville, Pa.

Eagle Mfg. Co., Appleton, Wis.

Famous Mfg. Co. ("Champion"), East Chicago,
Ind.

Flinchbaugh Mfg. Co. ("York"), York, Pa.

Foos Gas Engine Co., Springfield, O.

Hart-Parr Co., Charles City, Ia.

Kinnard-Haines Co. ("Flour City"), Minneapo-
lis, Minn.

Lambert Gas & Gasoline Engine Co., Anderson,
Ind.

Lauson, C. P. & J. ("Badger"), Milwaukee,
Ohio Mfg. Co., Upper Sandusky, Ohio. Wis.

Olds Gas Power Co., Lausung, Mich.

Otto Gas Engine Works, Phila., Pa.

Rockford Engine Works, Rockford, Ill.

Springfield Gas Engine Co., Springfield, O.

Stover Engine Works, Freeport, Ill.

Waterous Engine Works Co., St. Paul, Minn.

**When writing to firms listed
in this book please mention
HENDRICKS'
COMMERCIAL REGISTER**

Engines (Vertical)

(This list is duplicated under the head of Engines, Steam.)

CALIFORNIA.

SAN FRANCISCO—FAIRBANKS, MORSE & Co., 310 Market. (See adv. index, end of book)

Union Gas Engine Co. (Gas)
Union Iron Works (25 to 100 h. p.)

CONNECTICUT.

NEW HAVEN—Twiss, Nelson W., 28 Whitney av. (2 to 25 h. p.)

ILLINOIS.

AURORA—AMERICAN WELL WORKS. (See adv. index, end of book)

CHICAGO—FAIRBANKS, MORSE & Co., Franklin & Monroe. (See adv. index, end of book)

MASSACHUSETTS.

FITCHBURG—Fitchburg Steam Engine Co. (20 to 180 h. p.)

FLORENCE—Norwood Engineering Co. (2 to 50 h. p.)

HYDE PARK—Sturtevant, B. F. Co. (Open or Closed Type)

LAWRENCE—Lawrence Machine Co. (High Speed)

NEWBURYPORT—Davis, F. E. (2 to 20 h. p.)

NEW JERSEY.

EAST NEWARK—(See Newark)

ELIZABETH—Ball & Wood Co.

JERSEY CITY—Maslin, John & Son, 165 1st

NEWARK—LAMBERT HOISTING ENGINE Co., Main Office & Works, 115-121 Pioneer. (See adv. index, end of book)

Seymour & Whitlock, N. J. R. R. av

NEW YORK.

AUBURN—McIntosh, Seymour & Co.

BALDWINVILLE—MORRIS MACHINE Works (5 to 110 h. p.)

FISHKILL ON THE HUDSON—Fishkill Land-ing Machine Co.

NEW YORK CITY.

Borough of Brooklyn.

BROOKLYN—Pioneer Iron Works, 153 William

Boroughs of Manhattan & Bronx

NEW YORK—AMERICAN WELL WKS., 2 Stone. (See adv. index, end of book)

Ball & Wood Co., 17 Battery pl

FAIRBANKS, MORSE & Co., 133 Liberty. (See adv. index, end of book)

LAMBERT HOISTING ENGINE CO., 85 Liberty. (See adv. index, end of book)

N. Y. Safety Steam Power Co. (2 to 100 h. p.), 114 Liberty

OHIO.

BUYRUS—New York Blower Co.

CINCINNATI—KINSEY, E. A. CO., 331 4th. (See adv. index, end of book)

ORRVILLE—Cyclone Drill Co.

RAVENNA—BYERS, JOHN F. MACHINE Co. (See adv. index, end of book)

SANDUSKY—Klotz Machine Co. (10 to 50 h. p.)

SPRINGFIELD—Lefel, James & Co. (3 to 6 1/2 h. p.)

PENNSYLVANIA.

CORRY—Climax Mfg. Co. (6 to 100 h. p.)

ERIE—Erie Mfg. & Supply Co.

Erie Pump & Engine Co.

Nagle Engine & Boiler Works (4 to 20 h.p.)

Stearns Mfg. Co.

PHILADELPHIA—Rich, J. & G., 120 N 6th Southward Foundry & Machine Co., Wash'n av, cor 5th

READING—Orr & Sembower (Inc.)

TATAMY—Messinger Mfg. Co.

YORK—Farquhar, A. B. Co. (Ltd.) York Mfg. Co.

RHODE ISLAND.

PROVIDENCE—Cruikshank Engine Co. (2 to 35 h. p.)

WISCONSIN.

MILWAUKEE—ALLIS-CHALMERS CO. (All sizes) (See adv. index, end of book)

NATIONAL BLOWER WORKS, 17th & St. Paul av. (See adv. index, end of book)

RACINE—Racine Engine & Machine Co. (Small)

SHEBOYGAN—Optenberg & Sonnemann

*Engines (Winding)

SULLIVAN MACHINERY CO. (For Hoisting & Hauling), Railway Exchange bldg, Chicago, Ill. (See adv. index & branch offices, end of book)

WELLMAN - SEAVER - MORGAN CO. (Direct Act'g), Cleveland, O., & Akron, O. (See adv. index, end of book)

Engines (Yacht or Launch)

(See Engines, Marine, Gasoline; also Engines, Oil)

Enuphyll Bronze Construction (Arch'l & Interior)

VAN KANNEL REVOLVING DOOR Co., Home Office, 524 E 134th, New York. (See adv. index and branch offices, end of book)

Envelopes (Pliable Metal)

Modern Mfg. Co., P O Box 2854, Phila., Pa.

*Eradicators (Ink)

HARDTMUTH, L. & C. (Ideal), 34 E 23d, New York. (See adv. index, end of book)

*Erasers (Draughtsmen's)

COES, LORING & CO. (Inc.), Worcester, Mass. (See adv. index, end of book)

Erasers (Ink)

Landers, Frary & Clark (Inc.), New Britain, Conn.

Miller Bros. Cutlery Co. (Steel), Meriden, Conn.

Napanoch Knife Co., Napanoch, N. Y.

*Erasers (Rubber)

DIXON, JOS. CRUCIBLE CO. (for Pen-cil or Ink), Jersey City, N. J. (See adv. index and branch offices, end of book)

*Erecting Cableways

N. Y. CABLEWAY & ENGINEERING Co., 1 Rector, New York. (See adv. index, end of book)

Escalators

(See Stairways, Moving)

Escutcheon Pins

American Pin Co. (Brass), Waterbury Conn.

AMERICAN STEEL & WIRE CO. (Brass & Steel), "The Rookery," Chicago, Ill. (See adv. index & branch offices, end of book)

Blake & Johnson (Inc.), Waterbury, Conn.

Corbin Screw Corporation (Steel or Brass), New Britain, Conn.

Globe Mfg. Co., Taunton, Mass.

GRAMMES, L. F. & SONS (Brass or Iron), Allentown, Pa. (See adv. index, end of book)

Grand Crossing Tack Co., S Chicago av & 79th, Chicago

Hassall, John (Brass, Iron, Steel, German Silver, Tinned, etc.), 171 Lafayette, New York

HUNGERFORD, U. T. BRASS & Copper Co. (Brass & Iron), 497 Pearl, New York

Perkins, Henry Co., Bridgewater, Mass.

Plume & Atwood Mfg. Co., Waterbury, Conn.

Plymouth Mills (Brass & Iron), Plymouth, Mass.

Taunton Wire Nail Co., Taunton, Mass.

Tower Mfg. Co., Commerce & Elm, Cincinnati, O., & Madison, Ind.

Turner & Seymour Mfg. Co. (and Rivets), Torrington, Conn.

Waterbury Brass Co., Waterbury, Conn., & 99 John, New York

Waterbury Mfg. Co. (Brass), Waterbury, Conn.

Wire Goods Co. (Iron & Brass), Worcester, Mass.

Escutcheons (Wood, Key Hole)

Piqua Handle & Mfg. Co., Piqua, O.

Evaporators

(See also Evaporators, Multiple Effects, under the head of Sugar Machinery)

Bell, C. S. Co., Hillsboro, Ohio

Black & Clawson Co., Hamilton, O.

Blymer Iron Works Co. ("Zimmerman" Fruit, etc.), Spring Grove av & Terrace pl, Cincinnati, Ohio

Boomer & Boschert Press Co., Syracuse, N. Y.

Champlon Evaporator Co., Hudson, O.

Chattanooga Plow Co., Chattanooga, Tenn.

Connell, J. D. Iron Works Co., New Orleans, La.

Densmore Bros., Red Wing, Minn.

Fahrney, Edw. B. (Fruit, etc.), Waynesboro, Pa.

Flora Fruit Evaporator Co. (Fruit), Flora, Ill.

Gowanda Agricultural Works ("Portable" Sap), Gowanda, N. Y.

Grimm, G. H. & Co. (The Champlon), Rutland, Vt.

Hydraulic Press Mfg. Co. (Steam), Mt. Glead, O.

Palmer & Co. (Fruit), Noble, Ill.

Ryder, B. L. (Fruit, etc.), Waynesboro, Pa.

Schmidt, Joslin & Co. (Vacuum & Special, for Liquors, etc.), Cincinnati, O.

Sebastian Bros. (Fruit), Odln, Ill.

Squler, Geo. L. Mfg. Co., 420 Niagara, Buffalo, N. Y.

Vermont Farm Machine Co. (Sap), Bellows Falls, Vt.

Warren Evaporator Works ("Ixl," Milton Mathews, Prop.), Warren, O.

Evaporators & Fresh Water Distilling Apparatus

Davidson, W. T. ("Baird" Patents for Steam Vessels, Chemical Works, etc.), 43 Keap, Brooklyn, N. Y., & 141 B'way, New York

Excavating & Refilling Machinery

(See Machinery, Excavating & Refilling)

Excavators (Drainage)

(See also Sewer & Trench Excavating Machines) (Also Excavators, Steam)

AUSTIN, F. C. DRAINAGE EXCAVATOR Co., Railway Exchange, Chicago, Ill.

*Excavators (Placer Mining)

HAYWARD CO., THE, 99 Cedar, New York. (See adv. index, end of book)

*Excavators (Railroad)

HAYWARD CO., THE, 99 Cedar, New York. (See adv. index, end of book)

*Excavators (Skid)

HAYWARD CO., THE, 99 Cedar, New York. (See adv. index, end of book)

*Excavators (Steam)

(See also Shovels, Steam)

HAYWARD CO., THE, 99 Cedar, New York. (See adv. index, end of book)

Excelsior Mfrs.

Acme Mfg. Co., Harvey, Ia.

Alpena Excelsior Co. (Also Wood Wool), Alpena, Mich.

American Fibre Co. (Palm Leaf Mattress), Jacksonville, Fla.

Bearman, John M., Fort Scott, Kan.

Boston Excelsior Co., 26 Canal, Boston, Mass.

Brown, A. W., Alpena, Mich.

Charleston Excelsior M. & B. Factory, Charleston, S. C.

Coffeyville Excelsior Mfg. Co., Coffeyville, Kan.

Consolidated Excelsior Co., Fredricksburg, Va.

Farnham, J. F., Union, N. H.
 Fox, J. W. Excelsior Co., Grand Rapids, Mich.
 Gulf Red Cedar Co. (Red Cedar), Mobile, Ala.
 Guttenberg Excelsior Mfg. Co., Guttenberg, Ia.
 Hahn, J. F., Lancaster, Pa.
 Hoadley Excelsior Co., Honesdale, Pa.
 Hoffman-Corr Mfg. Co. (also Moss), 55 White,
 Holbert, J. G., Westcolang, Pa. New York
 Hoonbeek, Jno. C., Wawarsing, New York
 Huffman, Thco. P. & Co., 648 W 34th, New
 Keogh Exe. Mfg. Co., Chicago, Ill. York City
 Klein-Ortmeyer Co., Evansville, Ind.
 Klein, Philip, Evansville, Ind.
 Lincoln Excelsior Co., Lincoln, Ill.
 Lounsbury, G. H. & Sons, Findlay, O.
 MacKinnon Excelsior Co., Menasha, Wis.
 Meridian Mattress Factory, Meridian, Miss.
 Morris-Johnson-Brown Mfg. Co., Indianapolis,
 Nesmith, C. S., Reeds Ferry, N. H. Ind.
 Payne & Co., Dayton, O.
 Peters & Roberts Furniture Co., Portland, Ore.
 Shreveport Mfg. Co., Shreveport, La.
 South Williamsport Excelsior Mfg. Co., S Wil-
 liamsport, Pa.
 Standard Excelsior Works (Pine), Atlanta, Ga.
 Virginia Excelsior Co., Fredericksburg, Va.
 Wells, H. B., Milford, Pa.

Exhaust Heads

ABENDROTH & ROOT MFG. CO.
 ("Root" & "Hudson"), Newburgh, N. Y.
 (See adv. below; branch offices, end of book)
 Abendroth & Stein ("The Stein"), 39 Cort-
 landt, N. Y.
AMERICAN SPIRAL PIPE WORKS,
 W 14th & 48th av., Chicago, Ill., & 39 Cort-
 landt, New York. (See adv. index, end of
 book)
 Atwood-Morrill ("XX Century"), Salem, Mass.
 Bonar, James & Co., Frick bldg, Pittsburgh, Pa.
 Burt Mfg. Co. ("Burt" & "Standard"), Akron,
 O.
 Bushnell, Jno. S. Co., 123 Liberty, New York
 Cleveland Steam Fitting & Supply Co., 1082
 Hamilton, Cleveland, O.
 Crane Co. (Est. 1855), 519 S Canal, Chicago,
 Ill. (See adv. index & branch offices, end
 of book)
 Direct Separator Co. ("Sweet"), Syracuse,
 N. Y.
**GARDNER GOVERNOR CO. ("Gard-
 ner"),** Quincy, Ill. (See adv. index, end of
 book)
 Greenaway Co., 11 Woodward av., Detroit, Mich.
 Griffing, A. A. Iron Co., Jersey City, N. J.
 Hoppes Mfg. Co. (Cast Iron), Springfield, O.
 Hussey, McCann & Co., 87 Warren, New York
 Kelley, Benj. F. & Son, 120 Liberty, N. Y.
 Kensington Engine Works (Ltd.), Beach &
 Vienna, Phila., Pa.
 Koven, L. O. & Bro., 50 Cliff, New York.
 Kruger & Blind Co. (Centrifugal), 511 Master,
 Philadelphia, Pa.
 Lee, Thomas, 130 W 2, Cincinnati, O.
 Littleford Bros., 453 E Pearl, Cincinnati, O.
 Leow Mfg. Co., Cleveland, O.
 Lyman, W. C., 49 Michigan, Chicago, Ill.
 Ohio Blower Co. ("Swartout"), Cleveland, O.
 Patterson, Frank L. & Co., 26 Cortlandt, N. Y.
 Pittsburgh Gage & Supply Co., 309 Water, Pitts-
 burg, Pa.
 Prentice, L. H. Co., 34 Sherman, Chicago, Ill.

Robertson, Jas. L. & Son, Inc., 48 Warren, New
 York.
 Rutzler, E., 176 Centre, N. Y.
SIMMONS, JOHN CO., 110 Centre, New
 York. (See adv. index, end of book)
 Sims Co., Erie, Pa.
 Standard Steam Specialty Co. (Utility), 542 W
 B'way, New York
 Steam Appliance Co. (Atmospheric Condensing),
 Milwaukee, Wis.
 Sterling Blower & Pipe Mfg. Co., Hartford,
 Conn., & 85 Liberty, New York.
 Sturtevant, B. F. Co., Hyde Park, Mass. (For
 branch offices see end of book)
 Thompson, Richard & Co., 126 Liberty, N. Y.
 Unique Engineering Co. ("Unique" Turbine),
 100 Hinsdale, Brooklyn, N. Y.
 Watson & McDaniel Co. ("McDaniel," "Key-
 stone"), 146 N 7th, Phila., Pa.
 Whitlock Coil Pipe Co., Hartford, Conn.
 Wright Mfg. Co. (Cyclone), 55-59 Woodbridge,
 W. Detroit, Mich.
 Young Bros. Co. ("The Cyclone"), 263 Franklin,
 Detroit, Mich.

Exhaust & Blow Piping

Abendroth & Stein, 39 Cortlandt, New York
 Allington & Curtis Mfg. Co., Saginaw, Mich.,
AMERICAN SPIRAL PIPE WORKS,
 W 14th & 48th av., Chicago, Ill., & 39 Cort-
 landt, New York. (See adv. index, end of
 book)
ANDREWS & JOHNSON CO., 256
 Washington boul., Chicago. (See adv. index,
 end of book)
 Astle, H. J. & Co., Providence, R. I.
 Banister, A. W., 35 Wareham, Boston, Mass.
 Bonar, James & Co., Frick bldg, Pittsburgh, Pa.
 Buffalo Forge Co., Buffalo, N. Y.
 Cincinnati Exhaust & Blow Pipe Co., 324 W
 3d, Cincinnati, O.
 Clark & Miller Co., Seattle, Wash.
CLASON ARCHITECTURAL METAL
 Works, 428 Kinsley av., Providence, R. I.
 (See adv. index, end of book)
 Dixie Mfg. Co., Baltimore, Md.
 Garden City Fan Co., Fisher bldg, Chicago, Ill.
 Hartford Blower Co., Hartford, Conn.
 Lee, Thos., 130 W 2d, Cincinnati, O.
 Lewis, Henry B., 45 Jos. Campau av, Detroit,
 Mich.
 Littleford Bros., 453 E Pearl, Cinn. O.
 Lyman, W. C., 49 Michigan, Chicago, Ill.
 Mannen & Esterly Co., 2247 St. Clair, Cleve-
 land, O.
 Meadon's, T. J. Son, 51 Greenpoint av, Brook-
 lyn, N. Y.
NATIONAL BLOWER WORKS, 17th
 & St. Paul av, Milwaukee, Wis. (See adv.
 index, end of book)
 New Orleans Roofing & Metal Works, 926 La-
 fayette, New Orleans, La.
 Ohio Blower Co., Cleveland, O.
 Porbeek Bros. Mfg. Co., 2017 B'way, St. Louis,
 Mo.
 Savannah Blow Pipe & Exhaust Co., Savannah,
 Ga.
 Skinner, Chas. N. & Co., 1013 N B'way, St.
 Louis, Mo.
 Skiuner, D. B. & Bro., 1318 N B'way, St.
 Louis, Mo.

Skinner, Geo. J. B. & Co., 213 Morgan, St.
 Louis, Mo.
 Southern Exhaust & Blow Pipe Co., 632 Te-
 choupitoulas, New Orleans, La.
 Spiral Riveted Tube Co., 74 Cortlandt, New
 York, & Jersey City, N. J.
 Sterling Blower & Pipe Mfg. Co., Hartford,
 Conn., & 85 Liberty, New York.
 Sturtevant, B. F. Co., Hyde Park, Mass.
 United States Blowpipe & Hydraulic Works,
 Pacific blk, Seattle, Wash.
 Wulff, W. C. & Co., Louisville, Ky.

Exhausters (Electric)

GREEN FUEL ECONOMIZER CO.,
 General Office & Works, Matteawan, N. Y.,
 & 1218 West Street bldg, New York. (See
 adv. index & branch offices, end of book)
 Sirocco Engineering Co. ("Sirocco"), West St.
 bldg, New York
SPRAGUE ELECTRIC CO., 527 W.
 34th, N. Y. (See adv. index & branch of-
 fices, end of book)
WESTINGHOUSE ELECTRIC & MFG.
 Co., Pittsburg, Pa. (See adv. index &
 branch offices, end of book)

Exhausters (Gas)

American Blower Co., Detroit, Mich.
 Buffalo Forge Co., Buffalo, N. Y.
 Connersville Blower Co., Connersville, Ind.
 Cornell, J. B. & J. M., 26th & 11th av, New York
 Garden City Fan Co., Fisher bldg, Chicago
GAS POWER CO., 60 Wall, New
 York. (See adv. index, end of book)
GREEN FUEL ECONOMIZER CO.,
 General Office & Works, Matteawan, N. Y.,
 & 1218 West Street bldg, New York. (See
 adv. index & branch offices, end of book)
 Isbell-Porter Co., 46 Bridge, Newark, N. J.
 Kerr-Murray Mfg. Co., Fort Wayne, Ind.
**NATIONAL BLOWER WORKS, Mil-
 waukee, Wis.** (See adv. index, end of book)
 Parson Mfg. Co. ("Parson"), 299 B'way, N. Y.
 Piqua Fdry. & Mach. Co. ("Piqua"), Piqua, O.
 Roots, P. H. & F. M. Co. (& Fittings), Con-
 nersville, Ind.
 Schutte & Koerting Co., 1251 N 12th, Phila.,
 Pa.
 Sturtevant, B. F. Co., Hyde Park, Mass.
 Wilbraham-Green Blower Co., 2518 Frankford,
 Phila., Pa.

Exhausters (Planing Mill, Etc.)

Allington & Curtis Mfg. Co., Saginaw, Mich.
 American Blower Co., Detroit, Mich.
ANDREWS & JOHNSON CO., 256
 Washington boul., Chicago. (See adv. index,
 end of book)
 Banister, A. W., 35 Wareham, Boston, Mass.
 Buffalo Forge Co., Buffalo, N. Y.
 Champion Blower & Forge Co., Lancaster, Pa.
 Cornell, J. B. & J. M. Co., 26th & 11th av,
 New York
 Garden City Fan Co., Fisher bldg, Chicago, Ill.
GREEN FUEL ECONOMIZER CO.,
 General Office & Works, Matteawan, N. Y.,
 & 1218 West Street bldg, New York. (See
 adv. index & branch offices, end of book)

H
U
D
S
O
N



EXHAUST HEADS

Closely riveted and braced, galvanized
 after formation and built for service.

For the exhaust line, use
 ROOT SPIRAL RIVETED PIPE.

Abendroth & Root Manufacturing Co.

Main Offices and Works, NEWBURGH, N. Y.

Branches:

NEW YORK
 CHICAGO

PITTSBURG
 MEXICO CITY

Complete Price Lists under
 Root Spiral Riveted Pipe.

R
O
O
T



Hartford Blower Co., Hartford, Conn.
NATIONAL BLOWER WORKS, MILWAUKEE, WIS. (See adv. index, end of book)
 New York Blower Co., 25th pl & Stewart av., Chicago, Ill.
 Sirocco Engineering Co., West Street bldg, New York
 Specialty Mfg. Co., Indianapolis, Ind.
 Sterling Blower & Pipe Mfg. Co., Hartford, Conn.
 Sturtevant, B. F. Co., Hyde Park, Mass.

Exhausters (Pump & Engine Starting)

Schutte & Koerting Co., 1251 N 12th, Phila., Pa.

Exhausters (Steam Jet)

(See also Gas Works Apparatus & Construction)
 Continental Iron Works, West & Cayler, Brooklyn, N. Y.
 Gas Machinery Co., Citizens' bldg, Cleveland, O.
 Isbell-Porter Co., 245 B'way, N. Y.
 Kerr-Murray Mfg. Co. (also Rotary), Fort Wayne, Ind.
 Lloyd Construction Co., Detroit, Mich.

*Expanders (Hose)

GLAZIER NOZZLE & MFG. CO., 501-502 Commercial Club bldg, Indianapolis, Ind. (See adv. index, end of book)

Expanders (Tube)

Ajax Mfg. Co. ("The Collins" Self-Feed & Roller), Pittsburgh, Pa.
 Bullock, Chas. K. (Boiler), 1361 Ridge av., Phila., Pa.
 Cantlon Tool Co., Paris, Ill.
 Coggeshall Mfg. Co. ("Coggeshall" Roller Tube), Hamburg, N. J.
 Dangel, W. H. & Co. ("Lucas"), 140 Dearborn, Dugdon, Richard, New York
 Faessler, J. Mfg. Co. ("Boss" Boiler), Moberly, Mo.
 Hayes, Harrison, Portland, Me.
HELWIG MFG. CO. (Hand & Power Self-Feeding Fine), St. Paul, Minn. (See adv. index, end of book)
 Henderer's, A. L. Sons, Wilmington, Del.
 Irving Mfg. & Tool Co. (J. F. McCoy Co. Prop.), 159 Chambers, New York
 Lee & Hoff Mfg. Co. ("Prosser & Rollers"), St. Paul, Minn.
 Lovekin Pipe Expanding & Flanging Machine Co. ("Lovekin," Flue Expanding Tool), 421 Chestnut, Phila., Pa.
 Lovejoy Tool Works, 90 Ohio, Chicago, Ill.
 Nicholson, W. H. & Co. ("Nicholson" Self-Feeding & Self Releasing Roller), Wilkes-Barre, Pa.
 Oswego Tool Co. ("Dudgeon" Pattern, also the "World's Champion" Spring "Boss, Giles & Tonkin"), Oswego, N. Y.
 Place Mfg. Co. ("McGraw"), Oswego, N. Y.
 Prosser, Thos. & Son, 15 Gold, N. Y.
 Secor, A. W. ("Ferguson"), 65 Fulton, N. Y.
WATSON-STILLMAN CO., 26 Cortlandt. (See adv. index, end of book)
 Wiedeke, Gustav & Co. ("Ideal," Self-Feed Roller, "Montgomery," "Dayton" & Standard" Rollers, & Sectional Spring), Dayton, O.

Expansion Joints

(See Joints, Expansion)

Expansion Tanks

(See Tanks, Expansion)

Express Company Call

ELEVATOR SUPPLY & REPAIR CO., 76 W Monroe, Chicago, Ill., & 136 Liberty, New York. (See adv. below)

EXPRESS CALL
SIGNALING EXPRESS WAGONS
FROM OFFICES
ELEVATOR SUPPLY & REPAIR CO.
136 LIBERTY ST. 76 W. MONROE ST.
NEW YORK CHICAGO

Extractors (Broken Tap)

Atlas Machine Co. ("Atlas"), Providence, R. I.

*Extractors (Interior Dust & Dirt)

GENERAL COMPRESSED AIR & Vacuum Machinery Co. (Vacuum System), 4469 Olive, St. Louis, Mo. (See adv. index, end of book)
VACUUM CLEANER CO. (Vacuum System), 427 5th av, New York. (See adv. index, end of book)

Extractors (Mandrel)

United Engineering & Foundry Co. (Hydraulic & Belt Driven), Farmer Bk. bldg, Pittsburgh, Pa.

Extractors (Oil)

(See Oil or Grease Extractors; also Separators, Steam & Oil)

Extracts (Bark)

Miller Bark Extract Works, Millerton, New Brunswick, Canada

Extracts (Tanning)

New York Tanning Extract Co. (Quebracho, etc.), 17 Battery pl, New York
 Stamford Mfg. Co. (Quebracho, etc.), 82 Wall, New York, & Stamford, Conn.

Eye Shades

(See Goggles & Eye Protectors)

Eyelet Mfrs.

American Ring Co., Waterbury, Conn.
 Caseley & Nemes, Taunton, Mass.
 Halkyard Mfg. Co., Providence, R. I.
 Hughes Eyelet Co., Taunton, Mass.
 Plume & Atwood Mfg. Co., Waterbury, Conn.
 Rhodes, J. C. & Co. (Inc.), New Bedford, Mass.
 Rimmon Mfg. Co., Seymour, Conn.
 Sibley, E. L., Bennington, Vt.
 Stimpson, Edwin B. & Sons (All Kinds), 14 Spruce, N. Y.
 Tubular Rivet & Steel Co., Boston, Mass.
 United Shoe Mach'y Co., 205 Lincoln, Boston
 Waterbury Brass Co., Waterbury, Conn., & 99 John, New York

Eyelet Sets

Johnson, W. S. (Heidenberg Works), Newark, N. J.

*Eyes (Bulls')

McMILLAN'S, W. H. SONS, 153 South, New York. (See adv. index, end of book)

*Eyes (Dead)

McMILLAN'S, W. H. SONS, 153 South, New York. (See adv. index, end of book)

Fabricators (Steel Building)

(See Steel Structural Work.)

*Facing Arms

Underwood, H. B. & Co. (Portable), 1027 Hamilton, Phila., Pa.

*Factory & Mill Sites

Long Island City Factory Co. (New & Up-to-Date Factory Buildings, 12 minutes from City Hall, New York), 140 Nassau, N. Y.

Fan Blowers

(See Blower Mfrs.)

Fans (Ceiling)

Backus Water Motor Co., 182 Penna. av, New York, N. J.
 Bates, D. L. & Bro. Co. (Electric), Dayton, O.
 Chicago Water Motor & Fan Co. (Water Motor), 22 S Canal, Chicago, Ill.

Commercial Electricity Supply Co., 1007 Market, St. Louis, Mo.
 Dayton Fan & Motor Co., Dayton, O.
 Diehl Mfg. Co., 561 B'way, New York
 Emerson Electric Mfg Co. (Alternating Current), 2030 Washington av, St. Louis, Mo.
 Fidelity Electric Co. (also Desk, etc.), Lancaster, Pa.

Fletcher, P. M. Co. ("Standard," Oscillating), 32 Frankfort N. Y.

GENERAL ELECTRIC CO., Schenectady, N. Y., & 44 Broad, New York City. (See adv. index & branch offices, end of book)

HUNTER FAN & MOTOR CO. (Electric, Belt & Water Motor), Fulton, N. Y. (See adv. index, end of book)

Jordan Bros. 74 Beekman, N. Y.
 McLeod, Ward & Co., 27 Thames, N. Y.
 Oschner, A. & Son, 1060 State, New Haven, Conn.

Ravenna Lamp Works (Electric), Ravenna, O.
 Robbins & Myers Co. (Electric "Standard"), Springfield, O.

Seymour, J. M., Jr., 43 Lawrence, Newark, N. J.
 Specialty Mfg. Co. (and Columbu, for Belt Power), Indianapolis, Ind.

SPRAGUE ELECTRIC CO. (Electric), 527 W. 34th, New York. (See adv. index & branch offices, end of book)
 Western Electric Co., 259 S. Clinton, Chicago, & 57 Bethune, N. Y.

Fans (Centrifugal)

Sirocco Engineering Co. ("Sirocco"), West Street Bldg., New York

*Fans (Desk & Office)

Fletcher, P. M. Co., 32 Frankfort, New York
 Robbins & Myers Co. (Electric "Standard"), Springfield, O.
SPRAGUE ELECTRIC CO. (Electric), 527 W 34th, New York. (See adv. index & branch offices, end of book)
 Western Electric Co., 259 S. Clinton, Chicago, Ill., & 57 Bethune, N. Y.

Fans (Direct Connected Engine)

Garden City Fan Co., Fisher bldg, Chicago, Ill.
 Sturtevant, B. F. Co., Hyde Park, Mass.

Fans (Electric)

American Blower Co., 1400 Russell, Detroit, Mich.
 Bates, D. L. & Bro. Co. (Portable), Dayton, O.
 Backus Water Motor Co. (Ceiling), 182 Penna. av, Newark, N. J.
 Boston Electric Co., 29 Harrison av, Boston, Mass.
 Brooks-Follis Electric Corporation, 523 Mission, San Francisco, Cal.
 C. & C. Electric Co. (Portable, etc.), 149 B'way, New York
 Crocker-Wheeler Co. (Portable, etc.), Amphere, N. J., & 39 Cortlandt, New York
 Dayton Fan & Motor Co. (Portable, etc.), Dayton, O.
 Diehl Mfg. Co., 561 B'way, New York
 Edison Mfg. Co., 31 Union sq. New York, & Orange, N. J.
 Electric Ventilating Co., 221 E. Kinzie, Chicago, Ill.
 Emerson Electric Mfg. Co. (Portable, Alternating Current, etc.), 2030 Washington av, St. Louis, Mo.
 Fidelity Electric Co. (Direct Current, Desk, Ceiling, etc.), Lancaster, Pa.
 Fletcher, P. M. Co. ("Standard"), 32 Frankfort, New York
 Fort Wayne Electric Works (Inc.), Fort Wayne, Ind.
 Fuller Co. (Exhaust & Ventilating), 1565 Russell, Detroit, Mich.
 Garden City Fan Co., Fisher Bldg., Chicago, Ill.
GENERAL ELECTRIC CO. (All Kinds), Schenectady, N. Y., & 44 Broad, New York. (See adv. index & branch offices, end of book)
GREEN FUEL ECONOMIZER CO., Matteawan, N. Y., & 1218 West Street bldg, New York. (See adv. index & branch offices, end of book)
 Howard & Morse, 45 Fulton, New York
HUNTER FAN & MOTOR CO. ("Tuerk"), Fulton, N. Y. (See adv. index, end of book)
 Jandus Electric Co., Real Est. Trust bldg., Phila., Pa.
 Jordan Bros. 74 Beekman, N. Y.
 Kendrick & Davis (the Kent Battery), Lebanon, N. H.

THE VOLUME FAN OF EFFICIENCY

FOR

DRYING

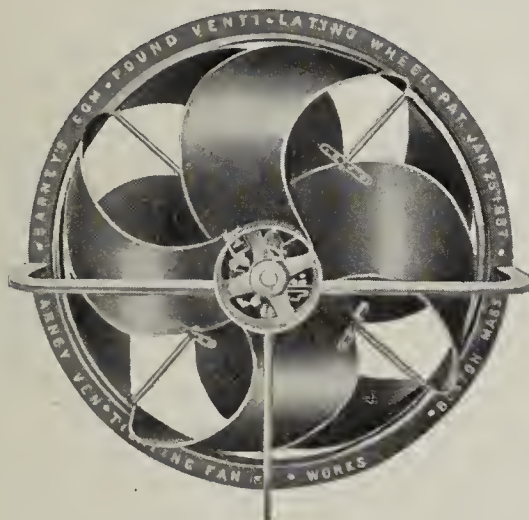
Leather
Soap
Paper
Chemicals
Textiles
Fish, Etc.

REMOVING

Heat
Dust
Foul Air
Smoke

AND VENTILATION OF ALL KINDS

Barney
Ventilating



Compound
Wheel

WE SHIP FOR 30 DAYS FREE TRIAL

SEE CATALOGUE H.

MANUFACTURED BY

BARNEY VENTILATING FAN WORKS

ALBERT B. FRANKLIN, Proprietor

24-28 BINFORD STREET - BOSTON, MASS., U. S. A.



The advertisement features two detailed line drawings. The upper drawing shows a kitchen scene with a man in a hat and apron standing at a stove. A ceiling fan with four blades and a central light fixture is mounted on the ceiling, labeled "TYPE E". The lower drawing shows a dining room with a man in a suit standing and another man seated at a table. A ceiling fan with four blades and a central light fixture is mounted on the ceiling, labeled "TYPE A".

Superb Quality
IN CEILING FANS
IS THAT
TIME TESTED KIND
SURE
TO PLEASE ALL
Hunter Fan & Motor Co.
FULTON, N.Y.

Knapp Electric & Novelty Co., 511 W. 51st, New York
 Mechanical Appliance Co., Milwaukee, Wis.
NATIONAL BLOWER WORKS, MILWAUKEE, WIS. (See adv. index, end of book)
OTIS ELEVATOR CO. (EXHAUST), 17 Battery pl., New York. (See adv. & branch office index, end of book)
 Ravenna Lamp Works, Ravenna, O.
 Ridlon, Frank Co. (Portable, etc.), 200 Summer, Boston, Mass.
 Robblus & Myers Co. (Direct Current "Standard"), Springfield, O.
 Shedd Electric Co. ("The Oscillating"), 60 Leonard, N. Y.
SPRAGUE ELECTRIC CO., 527 W. 34th, New York. (See adv. index & branch offices, end of book)
 Standard Electric Co. (Portable, etc.), 113 W. 3d, Cincinnati, O.
 Sturtevant, B. F. Co., Hyde Park, Mass.
 Watertown Electric Co., Watertown, Wis.
 Western Electric Co., 259 S Clinton, Chicago, & 57 Bethune, N. Y.
 Western Electrical Supply Co., St. Louis, Mo.
WESTINGHOUSE ELECTRIC & MFG. CO., Pittsburgh, Pa. (See adv. index & branch offices, end of book)

Fans (Exhaust or Ventilating)

(See also Blowers, Various Kinds; also Fans Ventilating, Mine; also Fans, Electric.)

CALIFORNIA.

SAN FRANCISCO—**GREEN FUEL ECONOMIZER CO.,** 63 1st. (See adv. index, end of book)
SPRAGUE ELECTRIC CO. (Direct Current, Electric), Atlas bldg. (See adv. index, end of book)

CONNECTICUT.

HARTFORD—Hartford Blower Co.
 WINDSOR LOCKS—Clark, George P. Co.

GEORGIA.

ATLANTA—**GREEN FUEL ECONOMIZER CO.** (See adv. index, end of book)

ILLINOIS.

CHICAGO—**ANDREWS & JOHNSON CO. (Inc.),** 256 Washington boul. (See adv. index, end of book)
 Garden City Fan Co., Fisher bldg.
GREEN FUEL ECONOMIZER CO., 1445 Old Colony bldg. (See adv. index, end of book)
 Lyman, W. C., 49 Michigan
 New York Blower Co., 25th pl & Stewart av
 Raymond Bros. Impact Pulverizer Co., 629 W Harrison
SPRAGUE ELECTRIC CO. (Direct Current, Electric), Fisher bldg. (See adv. index, end of book)
 Sturtevant, B. F. Co., 281 S Clinton

INDIANA.

CONNELLSVILLE—Roots, P. H. & F. M. Co.
 INDIANAPOLIS—Specialty Mfg. Co. ("Triumph" Exhaust or Disc Ceiling Belted & Direct Connected)

MASSACHUSETTS.

BOSTON—Banister, A. W., 35 Wareham
BARNEY VENTILATING FAN WORKS (A. B. Franklin, Prop.), 24 Binford. (See adv. at Fans)
 Exeter Machine Works, 32 Oliver
GREEN FUEL ECONOMIZER CO., 141 Milk. (See adv. index, end of book)
SPRAGUE ELECTRIC CO. (Direct Current, Electric), Weld bldg. (See adv. index, end of book)
 HOLYOKE—Perkins, B. F. & Sons
 HYDE PARK—Sturtevant, B. F. Co.
 WATERTOWN—Massachusetts Fan Co.

MICHIGAN.

DETROIT—American Blower Co., 1400 Russell
 Fuller Co., 1565 Russell
 SAGINAW—Allington & Curtis Mfg. Co.

MISSOURI.

ST. LOUIS—Emerson Electric Mfg. Co. (Direct Connected, Alternating & Direct Current), 2030 Wash'n av
 St. Louis Blower & Heater Co., 1628 N. 9th
SPRAGUE ELECTRIC CO. (Direct Current, Electric), Chemical bldg. (See adv. index, end of book)
 Wagner Electric Mfg. Co. (Belted, Electrically Driven)

NEW HAMPSHIRE.

EXETER—Exeter Machine Works

NEW JERSEY.

NEWARK—Seymour, J. M., Jr., 43 Lawrence

NEW YORK.

BUFFALO—Bicalky Fan Co.
 Buffalo Forge Co.
 FULTON—**HUNTER FAN & MOTOR CO.** ("Tucker," Electric & Belt). See adv. index, end of book
 MATTEAWAN—**GREEN FUEL ECONOMIZER CO.** (See adv. index, end of book)
 NEW YORK—Banks, F. S. & Co. ("Whiteman"), 73 Warren
 Cornell, J. B. & J. M. Co., 26th 11th av
 Empire State Engineering Co., 116th & E. R.
GREEN FUEL ECONOMIZER CO., 1218 West Street bldg. (See adv. index, end of book)
 Howard & Morse ("Blackman"), 45 Fulton
 Power Specialty Co., 111 B'way
SPRAGUE ELECTRIC CO. (Direct Current, Electric), 527 W 34th. (See adv. index, end of book)
 Sturtevant, B. F. Co., 131 Liberty
 Wing, L. J. Mfg. Co., 136 Liberty
 TROY—Tolhurst, W. H. & Son (Ventilating), Fulton & 6th av

OHIO.

CINCINNATI—MacLeod, Walter & Co.
 CLEVELAND—Bartlett Bros. Co., 178 Huron

PENNSYLVANIA.

ERIE—Link, E. M. Machinery Co.
 LANCASTER—Champion Blower & Forge Co.
 WILKES-BARRE—Vulcan Iron Works

RHODE ISLAND.

PROVIDENCE—New England Ventilating & Heating Co.

WISCONSIN.

MILWAUKEE—**ALLIS-CHALMERS CO.** (See adv. index & branch offices, end of book)
NATIONAL BLOWER WORKS, 17th & St. Paul av. (See adv. index, end of book)

Fans (Power)

(See Blowers, Various Kinds; also Fans, Exhaust or Ventilating.)

Fans (Propeller)

Garden City Fan Co., Fisher bldg., Chicago, Ill.
 Sturtevant, B. F. Co., Hyde Park, Mass.

Fans (Ventilating)

(See Fans, Exhaust & Ventilating.)

Fans (Ventilating, Engine Connected)

(See Blower Mfrs.)

Fans (Ventilating, Mine)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)
 Belleville Pump & Slein Works, Belleville, Ill.
 Clifford Cappell Fan Co. ("Cappells"), Jean-Cole, W. E., Washington, Ind. nette, Pa.
 Connellsville Machine & Car Co., Connellsville, Pa.
 ConneHsville Mfg. & Mine Supply Co., Connellsville, Pa.
 Crawford & McCrimmon Co., Brazil, Ind.

Danville Foundry & Machine Co., Danville, Ill.
 Denver Engineering Works Co., Blake & 30th, Denver, Colo.
 Eagle Iron Works (Direct Connected), Des Moines, Ia.
 Exeter Machine Works, Pittston, Pa.
 Finch Mfg. Co., Scranton, Pa.
 Garden City Fan Co., Fisher bldg., Chicago, Ill.
GENERAL ELECTRIC CO., Schenectady, N. Y., & 44 Broad, New York City. (See adv. index & branch offices, end of book)
 Herzler & Henninger, Belleville, Ill.
 Link Belt Machinery Co., W 39th & Stewart av, Chicago, Ill.
 Litchfield Foundry & Machine Co., Litchfield, Ill.
 Marine Iron Works, Bay City, Mich.
 Monongahela Mfg. Co., Monongahela, Pa.
 Mullen, Jno. & Son, Shamokin, Pa.
 Nelsonville Fdy. & Machine Co., Nelsonville, O.
 Ottumwa Iron Works, Ottumwa, Ia.
 Power Specialty Co., 111 B'way, New York
 Robinson Machine Co., Monongahela, Pa.
 Southern Illinois Machine & Foundry Co., Murrpysboro, Ill.
 Stine, S. B. & Son, Osceola Mills, Pa.
 Stroh, W. U. (Est. of), Mauch Chunk, Pa.
SULLIVAN MACHINERY CO., Railway Exchange bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
 United Iron Works Co., Springfield, Mo.
 Vulcan Iron Works, Wilkes-Barre, Pa.

Fans (Water Motor)

Bates, D. L. & Bro. Co., Dayton, O.
 Chicago Water Motor & Fan Co., 22 S. Canal, Chicago, Ill.
HUNTER FAN & MOTOR CO., Fulton, N. Y. (See adv. index, end of book)
 Rosenberg, A. Co., Baltimore, Md.
 Specialty Mfg. Co. (Desk & Column), Indianapolis, Ind.

Fasteners (Blind)

Eagan, Thos. F. Hardware Co. (Storm Window), Worcester, Mass.
PARKER, CHAS. CO., Meriden, Conn. (See adv. index, end of book)
 Russell & Erwin Mfg. Co., New Britain, Conn., & 43 Chambers, New York
 Sargent & Co., New Haven, Conn., & 94 Center, New York
STANLEY WORKS (Wrought Steel), New Britain, Conn., & 79 Chambers, New York. (See adv. index, end of book)
 Wrightsville Hardware Co., Wrightsville, Pa.

Fasteners (Box)

American Novelty & Mfg. Co. ("Defiance," "Climax" & "Excelsior"), 1826 N B'way, St. Louis, Mo.
CARY MFG. CO., 19 Roosevelt, New York. (See adv. index, end of book)
 Crescent Metal Strap Co., 380 Canal, New York
 De Haven Mfg. Co., 50-54 Columbia Heights, Brooklyn, N. Y.
 Jordan, Wm. (Box Top), Winona, Minn.
STANLEY WORKS, New Britain, Conn. (See adv. index, end of book)

Fasteners (Corrugated Steel)

Corrugated Steel Nail Co., Springfield, O.
MILWAUKEE CORRUGATING CO., Milwaukee, Wis. (See adv. index, end of book)
 Smallwood, W. R. Mfg. Co., Gowanda, N. Y.
STANLEY WORKS, New Britain, Conn., & 79 Chambers, New York. (See adv. index, end of book)
 Wrightsville Hardware Co., Wrightsville, Pa.

Fasteners (Curtain)

Carr, F. S., 74 Pearl, Boston, Mass.
 Cowles, C. & Co., Water & Chestnut, New Haven, Conn.
 Neider, F. A. Co., Augusta, Ky.
 Roehm & Davison (Ltd.), 91 Woodbridge, W. Detroit, Mich.
 Smith, Jos. N. Co., 4th & Porter, Detroit, Mich.
 Weiss, Chas. & Son, 4725 Cottage Grove av, Chicago, Ill.

When writing to firms listed in this book please, mention HENDRICKS' COMMERCIAL RECISTER

Fasteners (Freight Car Door)

Dayton Malleable Iron Co., Dayton, O.

Fasteners (Guard Rail)

Quincy-Manchester-Sargent Co. ("American"), Old Colony hldg, Chicago, Ill., & 114 Liberty, New York

Fasteners (Horse Blanket)

American Snap Co. ("Hubbard"), Ashtabula, Ohio

Fasteners (Nut & Bolt)American Nut & Bolt Fastener Co ("Barclay" for Splice Joints, Car Trucks, etc.), Allegheny, Pa.
MURPHY, CHRISTOPHER & CO. ("Bartley"), First National Bank bldg, Chicago, Ill. (See adv. index, end of book)**Fasteners (Sash)**

Champion Safety Lock Co. ("Champion," "Euclid" & "Monitor" Never Break), Geneva, O.

Corbin, P. & F., New Britain, Conn.
Ives, Hobart B. Co., New Haven, Conn.
Judd, Rollin D., New Britain, Conn.
Little, O. C. Pulley Coating Co., Menasha, Wis.Miller Lock Co., 219 N. 4th, St. Louis, Mo.
National Novelty Corp'n, 826 B'way, New York
Norwalk Lock Co., S Norwalk, Conn.
Peck, Stow & Wilcox Co., Southington, Conn., & 27 Murray, New YorkPenna. Hardware Co., Reading, Pa.
Phoenix Hardware Mfg. Co., Homer, N. Y.
Pullman Mfg. Co., Rochester, N. Y.
Reading Hardware Co., Reading, Pa.
Russell & Erwin Mfg. Co., New Britain, Conn., & 43 Chambers, New York
Sargent & Co., New Haven, Conn., & 94 Center New YorkSchroeder, Anton, 888 Dayton ave., St. Paul, Minn.
Shaw, Irvin A., Hutchinson, Kan.
STANLEY WORKS, New Britain, Conn., & 79 Chambers, New York. (See adv. index, end of book)

Yale & Towne Mfg. Co., 9 Murray, New York; Works: Stamford, Conn.

Fasteners (Seat)

Sovereign, C. E. Co., Rockford, Ill.

Fasteners (Storm Window)Eagan, Thos. F., Worcester, Mass.
Phenix Mfg. Co., Humboldt av c Center, Milwaukee, Wis.
Woodruff, W. W. & Sons Co. ("Doblers"), Mt. Carmel, Conn.**Fasteners (Window)**

Little, O. C. Pulley Coating Co., Menasha, Wis.

STANLEY WORKS, New Britain, Conn., & 79 Chambers, New York. (See adv. index, end of book)
Woodruff, Walter W. & Sons Co. ("Dohlers"), Mount Carmel, Conn.**Faucets**

(See also Plumbers' Brass Goods; also Cocks; also Cocks & Bibbs of various kinds)

Bashlin Co., Warren, Pa.
Bishop & Babcock Co., (Bar) Hamilton Av., Cleveland, O.Chambers & Ainslee (Beer, etc.), Newark, N. J.
Dinneen & Cook (Three-Way), 213 W 125th, New York

Edwardsville Brass Co. (Brass), Edwardsville, Ill.

Haines, Jones & Cadbury Co., 1138 Ridge av, Philadelphia, Pa.

Haydensville Co., (Compression, Fuller Pattern Lever Handle & Self Closing), Hayden-King, W. D. Co., Reading, Pa., ville, Mass.

Landers, Frary & Clark (Milk Can, Cream Separator, Petroleum Oil, etc.), New Britain, Conn.

McKenna Bros. Brass Co., 1st av & Ross, Pittsburgh, Pa.

McNab & Harlin Mfg. Co., 56 John, New York, & Paterson, N. J.

Meyer-Sniffen Co., 11 W 36th, New York

Mott, J. L. Iron Works, 118 5th av., New York

Peck Bros. & Co., 125 Chestnut, New Haven, Conn.

Sanitary Co. (The Paragon), 7 Water, Cleveland, O.

Sieben, Henry, 305 W 12th, Kansas City, Mo.

Syracuse Faucet & Valve Co. (Without Packing), Syracuse, N. Y.

Union Brass Works (Soderlund Bath, etc.), 7 Sherman Chsn, Boston, Mass.

Faucets (Hot Water)**ECONOMY FAUCET CO.** ("Economy"), Providence, R. I. (See adv. below)**Faucets (Molasses)**

North Bros. Mfg. Co. ("Improved Weed"), Lehigh av & American, Philadelphia, Pa.

WILSON, F. CORTEZ & CO., 239 Lake, Chicago, Ill. (See adv. index, end of book)**Faucets (Self Measuring)**

Lane Bros. Co., Poughkeepsie, N. Y.

Faucets (Stoneware)

Graham, Chas. Chemical Pottery Wks., 986 Metropolitan av, Brooklyn, N. Y.

Faucets (Wood)

Burnside Mfg. Co., Burnside, Ky.

Redlich Mfg. Co. (Wood, Cork-Lined, Cedar, Lock-Key, Metal Plug, etc.), 2 Oak, Chicago, Ill.

Sommer's, Jno. Son (Over 100 Different Kinds, Plain, Corked & Leather Lined, etc.), Newark, N. J.

Feed Water Heaters

(See Heaters, Feed Water)

Feeders (Aluminum Railway)

Aluminum Co. of America, Pittsburg, Pa.

Feeders (Boiler)**AMERICAN INJECTOR CO.** ("U. S." Automatic Injector), Congress & Seventh, Detroit, Mich. (See adv. index, end of hook)

Catchpole Boiler, Fdry. & Mach. Co., Geneva, N. Y.

Chaplin-Fulton Mfg. Co., 28 Penn av, P'tg, Pa.

Davis, G. M. Regulator Co. (& Heater), 144 Milwaukee av, Chicago, Ill.

Foskett & Bishop Co., New Haven, Conn.

Foster, F. W. Mfg. Co., 99 Haverhill, Boston, Mass.

Gillis & Geoghegan, New York City

Kelley & Jones Co., 135 Water, Pittsburg, Pa.

Keyes, F. E. & Son ("Advance"), 20 Broad, New York City

Kiley & Mueller, New York City

Kitts Mfg. Co. (High & Low), Oswego, N. Y.

Lawler Regulator Co., 473 W B'way, N. Y. City

Lawler Water Feed & Damper Regulator Co. ("Lawler's" Automatic, for Low Pressure), 473 W B'way, New York

Lee Injector Mfg. Co. ("Lee" Ball Valve, Automatic), Port Huron, Mich.

LUNKENHEIMER CO., Cincinnati, O. (See adv. index and branch offices, end of hook)

McRae & Roberts Co., Detroit, Mich.

Nason Mfg. Co., 71 Beekman, New York City

Parker Boiler Feed Co., Rochester, N. Y.

Roots, P. H. & F. M. Co., Connerville, Ind.

Rutzler, E. Co. ("Low Pressure, Automatic"), 127 White, New York

Schutte & Koerting Co. ("Koerting"), 1251 N 12th, Phila., Pa.

SIMMONS, JOHN CO., 106 Centre, New York. (See adv. index, end of hook)

Standard Steam Specialty Co. ("Utility," High & Low Pressure), 542 W B'way, N. Y.

Warren Steam Pump Co., Warren, Mass.

Watson, N. A., 1602 State, Erie, Pa.

Wright, Geo., Lapel, Ind.

Feeders (Boiler Compound)

Detroit Lubricator Co., Hodge bldg, Detroit, Mich.

Engel & Fagersten Chemical Co. ("Neptune"), 1702 Wabash av., Chicago, Ill.

Hayner, Norman C. Co., Rochester, N. Y.

Lake Erie Boiler Compound Co. ("Red Star," Automatic), Buffalo, N. Y.

Leavitt Machine Co., Orange, Mass.

Lee Injector Mfg. Co., Port Huron, Mich.

Lloyd Construction Co., Glenwood & Piquette av, Detroit, Mich.

LUNKENHEIMER CO., General Offices & Works Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

Northrup Lubricating Co. ("Famous"), St. Louis, Mo.

SCAIFE, WM. B. & SONS CO., 221 1st av, Pittsburg, Pa. (See adv. index, end of book)

Steam Appliance Co., Milwaukee, Wis.

Feeders (Boiler Oil)

Brameld, Wm., Paterson, N. J.

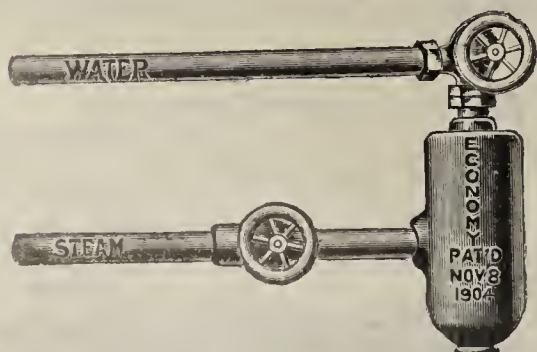
Detroit Lubricator Co. ("Detroit"), Detroit, Mich.

Lee Mfg. Co., Port Huron, Mich.

LUNKENHEIMER CO. ("Standard" & "Emerald"). General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

McRae & Roberts Co. ("Neverfail"), 227 Campbell av, Detroit, Mich.

Michigan Lubricator Co., 661 Beaubien, Detroit, Mich.

**Hot Water from a Cold Water Pipe**

that's what you get when you use

Economy Hot Water Faucets

and do away with all the expense of piping and tanks. We will give a ten day trial.

Have never taken one out after it has once been used.

ECONOMY FAUCET CO., 74 Waybosset St., PROVIDENCE, R. I.

Powell, Wm. Co. (Boiler Oil), 2529 Spring Grove av, Cincinnati, O.
 Sims Co. (Boiler Oil), Erie, Pa.
 Talmage Mfg. Co. ("The Cleveland" Sight Feed), St. Clair, N. W., Cleveland, O.
 Watts Regulator Co. ("Shoo Fly"), Lawrence, Mass.

Feeders (Coal Dust)

(See Burners, Coal Dust.)

Feeders (Fuel)

Dixie Mfg. Co. (Automatic Furnace), Baltimore, Md.
 Garland, M. Co., Bay City, Mich.
 Phoenix Mfg. Co. (Automatic, Sawdust), Eau Claire, Wis.
 Porbeck Bros. Mfg. Co. (Furnace), 2017 N B'way, St. Louis, Mo.

Feeders (Furnace)

Hartford Blower Co., Hartford, Conn.
 Ohio Blower Co., Cleveland, O.

Feeders (Ore)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)
 American Concentration Co., Joplin, Mo.
 Davis, F. M. Iron Works Co., Sth & Larimer, Denver, Col.
 Frenier, J. H. & Son, Rutland, Vt.
 Hamilton, Wm. Mfg. Co. (Reliance), Peterboro, Ontario, Can.
 Hammond Mfg Co., 100 1st, Portland, Oregon
 Harron, Richard & McCone ("James"), San Francisco, Cal.
 Hendy, Joshua Machine Works, San Francisco, Cal.
 Krom Machine Works, 170 B'way, New York; Works, Jersey City, N. J.
 Mecklenburg Iron Works, Charlotte, N. C.
 Mine & Smelter Supply Co., Denver, Colo.
 Newkirk, H. A. & Co. (The Wood), Monadnock blk, Chicago
 Power & Mining Machine Co. (Challenge), 52 William, New York. Works, Cudahy, Wis.
 Union Iron Works, San Francisco, Cal.
WELLMAN-SEEVER-MORGAN CO., Cleveland, O., & Akron, O. (See adv. index, end of book)

Feeders (Stone Sawing)

Kelly & Jones Co., 135 Water, Pittsburg, Pa.

Feeders (Sugar Cane Carrier)

Bodley Wagon Co., Memphis, Tenn.

Feeds (Roll & Dial)

Hibbard, Wm. H. Mfg. Co., Washington av, Brooklyn, N. Y.

Felt Hardeners

Farrel Foundry & Machine Co., Ansonia, Conn.

Felt Mills

(See also Felts, Hair)

American Felt Co., 110 E 13th, New York
 Bacon Bros., Winchester, Mass.
 Bardeen Paper Co., Otsego, Mich.
 Carey, Philip Mfg. Co., Lockland, O.
 Dolge, Alfred Mfg. Co., Dolgeville, Cal.
 Faatz-Reynolds Felting Co. (Wool), Lestershire, N. Y., & 648 B'way, New York
 Field & White, 116 Nassau, New York
 Foot Mfg. Co., Jersey City, N. J.
 Garrett, C. S. & Co., 21 Decatur, Philadelphia, Pa.
 Kingston's, Wm. Son, Little Falls, N. Y.
 Oregon Pulp & Paper Co., Bridal Veil, Oregon
 Stroock Felt Co., Newburgh, N. Y.
 Williams & Paige, 68 Essex, Boston, Mass.

*Felts (Asphalt & Saturated)

ACME ASPHALT ROOFING MFG. CO., 65 Mallory av, Jersey City, N. J. (See adv. index, end of book)

Felts (Deadening)

Barrett Mfg. Co., Land Title bldg, Phila., Pa.
 Beaver Mfg. Co., 228 Perry st, Buffalo, N. Y.
 Bird, F. W. & Son (Non-Inflammable, Sanitary), East Walpole, Mass.
 Boyle Mfg. Co., Lafayette, Ind.
 Carey, Philip Mfg. Co., Lockland, O.
 Chase Felt & Paper Co., Cly, Pa.
 Chatfield & Wood Co., 347 W. 4th, Cincinnati, O.

EHRET MAGNESIA MFG. CO., Land Title bldg, Phila., Pa. (See adv. index & branch offices, end of book)
 Garrett, C. S. & Co., 21 Decatur, Phila., Pa.
 Johus, H. W.-Manville Co., 100 William, New York.

Kingston's, Wm. Son, Little Falls, N. Y.
 Mac-Sim-Bar Paper Co. (Building), Otsego, Mich.

MUNN-PRICE CO. (Wool), 413 W B'way, New York. (See adv. index, end of book)

New York Asbestos Mfg. Co., 80 John, New York
 Trinidad Asphalt Mfg. Co., 320 S 21st, St. Louis, Mo.

Union Fibre Co. (Litho. Board & Quilted Flax Fibre & Mineral Wool), Winona, Minn.

WATSON, H. F. CO., Erie, Pa. (See adv. index & branch offices, end of book)

Felts for Electrical Purposes

(See also Felt Mills; also Felts, Hair.)

American Felt Co., 110 E 13th, New York
 Armour Curled Hair & Felt Works, 205 La Salle, Chicago, Ill.
 Faatz-Reynolds Felting Co. (Wool), Lestershire, N. Y., & 648 B'way, New York
 Stroock Felt Co., Newburgh, N. Y.
 Taylor, W. J., 475 B'way, New York
WATSON, H. F. CO., Erie, Pa. (See adv. index & branch offices, end of book)
 Williams & Paige, 68 Essex, Boston, Mass.

Felts (Hair)

Baeder, Adamson & Co., 67 Beekman, New York
 Carey, Philip Mfg. Co., Lockland, O.
 Faatz-Reynolds Felting Co. (Wool), Lestershire, N. Y., & 648 B'way, New York
 Johns, H. W.-Manville Co., 100 William, New York.

Pittsburg Hair Felt Co., Sharpsburg, Pa.
 Sindle, S. & Sons, Little Falls, N. Y.
 Smith, Thos. F. ("The Standard"), 20 Cedar, New York
 Trainer, C. W. Mfg. Co., 89 Pearl, Boston.
WATSON, H. F. CO., Erie, Pa. (See adv. index & branch offices, end of book)

Felts (Polishing)

Bacon Bros., Winchester, Mass.
 Eastern Felting & Buffing Wheel Co. (Sheets), Winchester, Mass.
 Foot Mfg. Co., Jersey City, N. J.
 Stroock Felt Co., Newburgh, N. Y.
 Williams & Paige, 68 Essex, Boston, Mass.

Felts (Roofing)

(See also Papers, Roofing & Sheathlug.)

ACME ASPHALT ROOFING MFG. CO. ("Eagle" Brand Asphalt), 65 Mallory av, Jersey City, N. J. (See adv. index, end of book)

EHRET MAGNESIA MFG. CO., Land Title bldg, Phila., Pa. (See adv. index & branch offices, end of book)
 Barrett Mfg. Co. (Also Tarred & Saturated Wool, Felts, etc.), Land Title bldg., Phila., Pa.

Burke, Augustus, 100 W Superior, Chicago, Ill.
BURTON, W. J. CO., 164 W Larned, Detroit, Mich. (See adv. index, end of book)
 Capitol Asphalt Mastic Co. (Asphalt), 310 Dublin av, Columbus, O.
 Carey, Philip Mfg. Co., Lockland, O.

Chatfield & Woods Co., 347 W 4th, Cincinnati, O.
 Crescent Compound Mfg. Co. (Single, 2 & 3 Ply), Ellwood City, Pa.

Diem & Wing Paper Co. ("Flintold"), Sth & Eggleston av, Cincinnati, O.

Garrett, C. S. & Co., 21 Decatur, Phila., Pa.
 Gilmour, R. M. Mfg. Co., 105 John, New York
 Hewitt, C. B. & Bros., 48 Beekman, N. Y.
 Hydrex Felt & Eng'g Co., 120 Liberty, N. Y.

Johns, H. W.-Manville Co., 100 William, New York.
 Kingston's, Wm. Son (Dry Felt), Little Falls, N. Y.

McClintock & Irvine Co., Neville & P. R. R., Pittsburg, Pa.

Nashville Chemical Co., 919 N Front, Nashville, Tenn.
 New England Felt Roofing Works, 18 Post office sq, Boston, Mass.
 North Chicago Roofing Co., 128 E North av, Chicago, Ill.
 Patent Vulcanite Roofing Co., 25 S Campbell av, Chicago, Ill.
 Powell, M. W. Co., 204 Dearborn, Chicago, Ill.
 Powell & Jones, Monadnock blk, Chicago, Ill.
 Sall Mountain Asbestos Mfg. Co., 68 S Canal, Chicago, Ill.
 Scott & Co. (Asteroid), 234 E Front, Cincinnati, O.

Single, John Paper Co., Syracuse, N. Y.
 Southern Roofing Co. (Tarred), Atlanta, Ga.
 Stelwagon Mfg. Co., 826 Schuykill av, Phila.
 Stewart, W. H. Mfg. Co., 81 Fulton, N. Y.
 Stowell Mfg. Co., 454 West Side av, Jersey City, N. J.

Trinidad Asphalt Mfg. Co., 320 S 21st, St. Louis, Mo.

Warren Bros. Co. (Single, 2 & 3-ply), 93 Federal, Boston, Mass.

WATSON, H. F. CO., Erie, Pa. (See adv. index & branch offices, end of book)

Fence (Electrically Welded Wire)

Pittsburg Steel Co., Pittsburg, Pa.

*Fence Post Reinforcement Cables

INTERNATIONAL FENCE & FIRE Proofing Co., Buttes av, Columbus, O. (See adv. index, end of book)

Fences (Expanded Metal)

ANCHOR POST IRON WORKS, 41 Park row, New York. (See adv. index, end of book)

McDowell Mfg. Co., 541 Wood, Pittsburg, Pa.
MERRITT & CO., 1024 Ridge av, Phila., Pa. (See adv. index, end of book)

Fences (Iron & Steel Picket)

ANCHOR POST IRON WORKS, 41 Park row, New York. (See adv. index, end of book)

Atlanta Wire & Iron Works Co., Atlanta, Ga.
 Belmont Iron Works, 2215 Wash'n av, Phila.
BUFFALO WIRE WORKS CO., Buf- falo, N. Y. (See adv. index, end of book)

Carpenter, F. E. Co., 9 Warren, New York
CHAMPION IRON CO., Kenton, O. (See adv. index, end of book)

CITY FORGE & IRON WORKS (An- drew Plocher, Prop.), Dayton, O. (See adv. index, end of book)

Davis & Siehl (Steel), 4032 Hamilton av, Cincinnati, O.

DeKalb Fence Co. (Steel Web), DeKalb, Ill.
 Glen Mfg. Co. ("Hartman" Wrought Steel), Ellwood City, Pa., & 181 B'way, New York

Indiana Steel Wire Co., Muncie, Ind.
OHIO STRUCTURAL IRON CO., San- dusky, O. (See adv. index, end of book)

SMITH, F. P. WIRE & IRON WORKS, 100 Lake, Chicago, Ill. (See adv. index, end of book)

Smith Fence & Iron Co. (Steel), Waynesboro, Pa.

Stewart Iron Works Co., 714 E 3d, Cincinnati, O.

WISCONSIN IRON & WIRE WORKS, 190 E Water, Milwaukee, Wis. (See adv. index, end of book)

Fences (Ornamental Iron)

(See Gates, Ornamental Iron)

Fences (Woven Wire)

Adams Steel & Wire Works, Joliet, Ill.
 American Cable Fence Co. (Farm, Lawn & Poultry), Pekin, Ill.

AMERICAN STEEL & WIRE CO. ("American," "Elwood" & "Royal" Fences), The Rookery, Chicago, Ill. (See adv. index & branch offices, end of book)

American Wire Fence Co. ("Model" Steel Colled Spring), 189 La Salle, Chicago, Ill.

Anthony Fence Co. ("Anthony"), Tecumseh, Mich.

Boley Wire Fence Co., Sandusky, O.

BUFFALO WIRE WORKS CO., 316

Terrace, Buffalo, N. Y. (See adv. index, end of book)

CLINTON WIRE CLOTH CO., Clinton,

Mass. (See adv. index & branch offices, end of book)

Crawfordsville Wire & Nail Co., Crawfordsville, Ind.

Cyclone Woven Wire Fence Co. ("Cyclone" Spring Steel), Holly, Mich.

De Kalb Fence Co., De Kalb, Ill.

Deuning Wire & Fence Co., Cedar Rapids, Ia.

Dillon-Griswold Wire Co., Sterling, Ill.

Dunning Fence Works, Cedar Rapids, Ia.

Grand Crossing Tack Co., S Chicago av & 79th, Chicago, Ill.

Harris Wire Fence Co., Oxford, Mich.

Hohulin Bros. ("Diamond"), Goodfield, Ill.

Indiana Steel Wire Co., Muncie, Ind.

Interstate Woven Wire Fence Co., Indianapolis, Ind.

Janesville Barb Wire Fence Co., Janesville, Wis.

Keystone Fence Co., Peoria, Ill.

Kitselman Bros., Muncie, Ind.

McClelland, W. C., Rossman, N. Y.

Minnesota Fence Works, 67 E. 9th, St. Paul, Minn.

Myers, Chas. H. & Co., Le Roy, Ill.

National Wire Corporation, General Offices, 114 Liberty, New York & New Haven, Conn.

New Jersey Wire Cloth Co., Trenton, N. J.

Page Woven Wire Fence Co., Monessen, Pa., 200 Monroe Chicago, Ill.

Peerless Fence Co., Holly, Mich.

Peters, David & Son Gate & Fence Co., Homer, Ill.

Shimer Woven Wire Fence Co., Anderson, Ind.

Spring Steel Fence & Wire Co., Anderson, Ind.

Walker Mfg. Co., Council Bluffs, Ia.

***Fenders (Brass & Iron)**

(See also Fire Place Furnishings, Mfrs.)

BIGELOW-CHENEY WIRE WORKS,

Springfield, Mass. (See adv. index, end of book)

BRADLEY & HUBBARD MFG. CO.,

Meriden, Conn. (See adv. index, end of book)

JACKSON, WM. H. COMPANY, 29 E

17th (Union sq), New York. (See adv. index, end of book)

Fenders & Guards (Automobile)

American Auto Brass Co., Columbus, Ohio.

American Veneer Co., New Orange, N. J.

A-Z Co., 527 W 56th, New York City

BADGER, E. B. & SONS CO., 75 Pitts,

Boston, Mass. (See adv. index, end of book)

Briscoe Mfg. Co., 1427 Woodward av, Detroit, Mich.

Broc Carriage & Wagon Co., 417 Case av, Cleveland, Ohio

Cole & Woop, 48 W 67th, New York

Dann Bros. & Co., 80 Franklin, New Haven, Conn.

Detroit Automobile Top Co., 265 Jefferson av, Detroit, Mich.

Detroit Motor Car Supply Co., 1050 Jefferson av, Detroit, Mich.

Everitt, B. F., 63 Fort E, Detroit, Mich.

Fedders Mfg. Co., 1592 Genesee, Buffalo, N. Y.

Gray, Peter & Sons, 88 Union, Boston, Mass.

Hayes Mfg. Co., Detroit, Mich.

Indianapolis Dash Co., 2116 S Meridian, Indianapolis, Ind.

Kells, W. J. Mfg. Co., Jersey City, N. J.

Kinsey Mfg. Co., 1126 E 3d, Dayton, O.

Long Mfg. Co., 1430 Michigan av, Chicago, Ill.

McKinnon Dash Co., 250 Amherst, Buffalo, N.Y.

Moore-Munger Co., 602 W 52d, New York

Peters & Herron Dash Co., Gift e Culbertson, Columbus, O.

Pittsburg Reduction Co., Pittsburg, Pa.

Pursell, P. M. Mfg. Co., 802 Bleecker, N. Y.

Quinby, J. M. & Co., 27 Division, Newark, N.J.

Reading Metal Body Co., 8th & Chestnut, Reading, Pa.

Springfield Metal Body Co., Birnie av, Springfield, Mass.

U. S. Dash & Fender Co., 147 E 42d, N. Y. City

Wright Cooler & Hood Co., 335 Wabash av, Chicago, Ill.

Walker, James & Son, 43 Jefferson av, Detroit, Mich.

Ferro-Alloys

Beaver Metallurgical Co., Beaver Falls, Pa.

LEAVITT, C. W. & CO., 222 B'way,

New York. (See adv. on this page)

Tennant & Sons Co. (Importers), 76 William, New York

Ferro-Chrome

Dana & Co., 32 B'way, New York

Doggett, Stanley, 101 Beekman, New York

LEAVITT, C. W. & CO., 222 B'way,

New York. (See adv. below)

Roessler & Hasslacher Chemical Co. ("Poluek-metos" Brand), 100 William, N. Y.

Tennant & Sons Co. (Importers), 76 William, New York

Willson Aluminum Co., 99 Cedar, New York

Works: Kanawha Falls, W. Va.

Ferro-Manganese & Ferro-Silicon

Addy, Matthew & Co., Philadelphia, Pa.

Blair, Reed F. & Co., Frick bldg, Pittsburgh, Pa.

Carnegie Steel Co., Carnegie bldg, Pittsburgh, Pa.

Dana & Co., 32 B'way, N. Y.

HAMILTON & CO. (English), 16 S

William, New York

Kendall & Flick (Crude, Graff & Ground), Washington, D. C.

LEAVITT, C. W. & CO., 222 B'way,

New York. (See adv. below)

Roessler & Hasslacher Chemical Co. ("Poluek-metos" Brand), 100 William, N. Y.

Samuel Frank (Firm of), 1502 Market, Phila., Pa.

Tennessee Coal, Iron & Railroad Co., Birmingham, Ala.

Wilson Aluminum Co., 99 Cedar, New York

Works: Kanawha Falls, W. Va.

Ferro-Phosphorus**LEAVITT, C. W. & CO., 222 B'way,**

New York. (See adv. below)

Roessler & Hasslacher Chemical Co., 100 William, New York

Ferro-Molybdenum*LEAVITT, C. W. & CO., 222 B'way,**

New York. (See adv. below)

Ferro-Tungsten

Beaver Metallurgical Co., Beaver Falls, Pa.

Tennant & Sons Co. (Importers), 76 William, New York

Ferrules (Brass)

American Distributing Co., Syracuse, N. Y.

American Pin Co., Waterbury, Conn.

American Ring Co., Waterbury, Conn.

American Tube & Stamping Co., Bridgeport, Conn.

Athol Pump Co. (for Plumbers), Athol, Mass.

Boston Ferrule Co., 34 Osborn, Cambridgeport, Mass.

Bridgeport Brass Co., Bridgeport, Conn., & 19 Murray, N. Y.

Campbell, J. B. Brass Works (End Reducing & Trap Screw), Erie, Pa.

Edwardsville Brass Co. (For Plumbing), Edwardsville, Ind.

Gaynor & Mitchell Mfg. Co., Bridgeport, Conn.

Green, C. E. & Son, 95 Passaic, Newark, N. J.

Hays Mfg. Co., Erie, Pa.

Hoffman-Billings Mfg. Co., Milwaukee, Wis.

Humphrey, H. W. (Solid), Unionville, Conn.

Hungerford, U. T. Brass & Copper Co. (also Copper), 497 Pearl, N. Y.

McKeel, Geo. A. & Co., Jackson, Mich.

McNab & Harlin Mfg. Co. (For Plumbing), 56 John, New York

Matthews Mfg. Co., Worcester, Mass.

Mueller, H. Mfg. Co. (For Plumbing), Decatur, Ill.

Niagara Handle & Ferrule Co., Buffalo, N. Y.

Novelty Mfg. Co., Waterbury, Conn.

Ohio Brass & Iron Mfg. Co. (For Plumbing), Cleveland, O.

Parker, Jno. L. & Co., Worcester, Mass.

PECK BROS. & CO., 125 Chestnut,

New Haven, Conn. (See adv. index & branch offices, end of book)

Plume & Atwood Mfg. Co., Waterbury, Conn.

Rome Brass & Copper Co., Rome, N. Y.

Sanitary Co. (For Plumbing), 7 Water, Cleveland, O.

Starbuck, R. M. & Son (Plumbers), Hartford, Conn.

Steele & Johnson Mfg. Co., Waterbury, Conn.

Union Hardware Co., Torrington, Conn.

Waterbury Brass Co., Waterbury, Conn., & 99 John, New York

Waterbury Mfg. Co., Waterbury, Conn.

WORCESTER PRESSED STEEL CO.

Worcester, Mass. (See adv. index, end of book)

Ferrules (Copper)

Brunswick Mfg. Co., (Plain & Nickel Plated) Brunswick, Me.

Cleveland Copper Ferrule Co. (Seamless), Cleveland, O.

HUNGERFORD, U. T., BRASS &

Copper Co., 497 Pearl, New York

Rome Brass & Copper Co., Rome, N. Y.

Ferrules (Hard Fibre)

(See Fibre Mfrs., Hard.)

Ferrules (Iron & Steel)

American Fork & Hoe Co. Main Office, Cleveland, O.

American Tube & Stamping Co. (Steel), Bridgeport, Conn.

Athol Pump Co. (Soil Pipe Union), Athol, Mass.

FERRO**CHROME
MANGANESE
SILICON
PHOSPHORUS
MOLYBDENUM**

ALSO ALL OTHER

METALS, ALLOYS AND ORES**C. W. LEAVITT & CO.****222 BROADWAY****NEW YORK**

HENDRICKS' Commercial Register

Leads the Procession
of Publications in the
==March of Trade==

Among Architects, Builders, Contrac-
tors, Engineers, Purchasing Agents of
Railroads, Mills, Mines, Factories and
Supply Houses

Because it is the most complete Buyers'
Reference and the most profitable
Advertising Medium.

Use Hendricks' COMMERCIAL
REGISTER



Write for particulars of free classifications.

Spaulding's

Cocheco Hard Fibre

For Electrical and Mechanical Uses

We Manufacture in Fibre

Sheets, Rods, Tubes, Washers
and all kinds of special shapes

Send us Specifications

for your requirements and we
shall take pleasure in send-
ing you samples with prices

J. Spaulding & Sons Co.

NORTH ROCHESTER, N. H.

PERFECT RESTORATION OF WORN FILES

OLD FILE

showing teeth worn down, etc.



**SAME FILE
AFTER RENEWING**
with teeth clearly defined and cuts deepened

The file can be renewed in this very excellent manner 4 times before becoming too thin for service, and at a saving of 33% under the cost of the same file new.

Usefulness of Files Increased 400%

Mechanics' Time Saved 200%

File Bills Reduced 160%

You run absolutely no risk in sending us all the old files you have, as we give you 30 days in which to try the Files, and if they do not do the work, you need not pay the bill. We pay freight one way, pack and label your Files like new.

AMERICAN FILE RENEWING COMPANY of Providence, R. I.

SHIP AS SCRAP IRON

Write us and we will mail you list of some of our customers and also a few indorsements.

Bay State Stamping Co (Steel only), Worcester, Mass.
Humphrey, H. W. (Steel), Unionville, Conn.
Lathrop, F. B. (Steel), South Acton, Mass.
McKeel, Geo. A. & Co. (Steel Hoe, Fork, Rake, etc.), Jackson, Mich.
Matthews Mfg. Co. (Steel), Worcester, Mass.
Niagara Handle & Ferrule Co., Buffalo, N. Y.
Parker, Jno. L. & Co., Worcester, Mass.
Pratt Chuck Co. (Drawn), Frankfort, N. Y.
Union Hdw. Co., Torrington, Conn.
Wilcox, Crittenden & Co., Middletown, Conn.
WORCESTER PRESSED STEEL CO.
Worcester, Mass. (See adv. index, end of book)

Ferrules (Lead)

(See Lead Traps, Bends & Ferrules)

Ferrules (Screw Driver)

McKeel, Geo. A. & Co., Jackson, Mich.
Niagara Handle & Ferrule Co., Buffalo, N. Y.

Ferrules (Tin & Sheet Metal)

Consolidated Fruit Jar Co (Sheet Metal), New Brunswick, N. J., & 200 B'way, N. Y.
Humphrey, H. W., Unionville, Conn.
Troy Stamping Works, Troy, N. Y.

Ferrules (Wire)

Green, C. E. & Son, 95 Passaic, Newark, N. J.
Lathrop, F. B., South Acton, Mass.
Wire Goods Co., Worcester, Mass.

Fibre (Brush)

American Fibre Co. (Palmetto), Jacksonville, Fla.
Whiting, E. B. & A. C. ("Tampico"), Burlington, Vt.
Wilkins Bros., 264 Spring, New York

Fibre (Electrical)

(See Fibre Mfrs., Hard)

*Fibre (Hard, Special Shapes)

SPAULDING, J. & SONS CO., North
Rochester, N. H. (See adv. index, end of hook)

Fibre Mfrs. (Hard)

(In Sheets, Rods, Tubing, etc.)

American Vulcanized Fibre Co. (Vulcanized), Wilmington, Del.

Delaware Hard Fibre Co., Wilmington, Del.

Diamond State Fibre Co., Elsmere, Del.

Empire Fibre Co. (also Soft), 17 State, New York

Indestructible Fibre Co., 45 B'way, New York

Leatheroid Mfg. Co., Kennebunk, Me., & 108 Lincoln, Boston, Mass.

National Fibre Board Co. (Horn Fibre), Kennebunk, Me.

SPAULDING, J. & SONS CO., North
Rochester, N. H. (See adv. index, end of hook)

Vulcanized Fibre Co., Wilmington, Del.

*Fids (Hand & Stretching)

McMILLAN'S, W. H. SONS, 153 South,
York. (See adv. index, end of hook)

Figures (Lead)

Wilcox, Crittenden & Co., Middletown, Conn.

File Renewing

AMERICAN FILE RENEWING CO.,
Providence, R. I. (See adv. above)

File & Rasp Mfrs.

Akron File Works, Akron, O.

AMERICAN SWISS FILE & TOOL CO.,
24 John, New York. Factory: Elizabeth, N. J. (See adv. below)

Amesbury File Works, Amesbury, Mass.

Barnett, G. & H. Co., 21 Richmond, Phila., Pa.

Bell File & Rasp Works, Kansas City, Mo.

Brohm & Molitor, 257 S. Pearl, Albany, N. Y.

California File Co., San Francisco, Cal.
Carver File Co. ("Delta"), 3231 Frankford, Phila., Pa.

Chatterton File Works (Hand Cut), Providence, R. I.

Chelsea File Works, Norwich, Conn.

Chicago File & Rasp Co., 384 S Canal, Chicago, Ill.

Co-operative File Co., Lawrence, Mass.

Disston, H. & Sons (Inc.), Tacony, Phila., Pa.

Flanagan, M., 181 Brewery, New Haven, Conn.

Forquignon Mfg. Co., 13 E 16th, N. Y.

Gem City File Works, Quincy, Ill.

Gesswein, F. W. Co. (Also Importers), 39 Goerner & Plang, Akron, O. John, N. Y.

Graves File Co. (Hand Cut), Newark, N. J.

Grover, Jno. B. File Co., Nashua, N. H.

Hayes File Co., Detroit, Mich.

Heller Bros. Co., 879 Mt. Prospect av, Newark, N. J.

Hiscox, A. J., Worcester, Mass.

Industry File Works, 46 Columbus, Cleveland, O.

Jetter Mfg. Co., 861 Jefferson, Buffalo, N. Y.

Johnson & Bro. File Co., 156 Ayon av, Newark, N. J.

Litterst Co., Menlo Park, N. J.

Liveright Bros., 20th c Allegheny av, Phila., Pa.

McCaffrey File Co., 5th & Berks, Phila., Pa.

Madden File Co., Middletown, N. Y.

Morris, E. K. & Co., 317 W 2d, Cincinnati, O.

Mound File Co., 712 Howard, St. Louis, Mo.

Murcott & Campbell, Union av., Brooklyn, N. Y.

Nicholson File Co., Providence, R. I.

Peninsular File Works, 130 Beaubien, Detroit, Mich.

REICHHHELM, E. P. & CO. ("American Swiss"), 24 John, New York. (See adv. below)

Rex File & Saw Co., Newcomerstown, O.

Reynolds Bros. (Hand Cut), 180 N Water, Columbus, O.

Shedinger, Wm. (Needle, Broach, etc.), 6744 State rd, Phila., Pa.

Simonds File Co., Fitchburg, Mass.

Smyth & Sons, 57 Church, Albany, N. Y.

Stanley, Calrow L. (Roll Files a Specialty), Lowell, Mass.

Stokes Bros. Mfg. Co., Freehold, N. J.

Stuhls Steel Co., 17 N 5th, Phila., Pa.

Thornhill, Robert, 59 Prehle, Portland, Me.

Troy File Works, Troy, N. Y.

Westphal, F. & Co., 31st & Cherry, Milwaukee, Wis.

The Best Files



Are only "good enough" for American Toolmakers and Machinists, therefore, try

"AMERICAN SWISS."

SEND FOR PRICE LISTS AND SAMPLES TO

E. P. REICHHHELM & CO., - 24 JOHN STREET, - NEW YORK

***Files (Horse Tooth)**

Arcade Mfg. Co., Freeport, Ill.
Horn, Wm. H. & Bro., 451 N 3d, Phila., Pa.

Files ("Weed's" Slim Taper)

Nicholson File Co., Providence, R. I.

Filing Cabinets & Devices

Amberg File & Index Co., 438 Fulton, Chicago, Ill., & 79 Duane, N. Y.
American Steel Cabinet Co. (Metallic), N. Y. Life bldg, Chicago, Ill.
Armor Clad Mfg. Co. (Metallic), Canton, O.
Art Metal Construction Co. (Sheet Steel), Jamestown, N. Y.

BERGER MFG. CO. (Steel), Main
Office & Works, Canton, O. (See adv. index & branch offices, end of book)

BURROWES, E. T. CO. ("Burrowes")
Unit Expansion), Portland, Me. (See adv. index, end of book)

Bushnell, Alvah Co., 4 N 13th, Phila., Pa.
CANTON ART METAL CO. ("Steel"), Canton, O. (See adv. index, end of book)

Clarke & Baker Co., Ilion, N. Y.
Dick, A. B. Co., 161 W Jackson boul, Chicago, Economy Drawing Table Co. (for Blue Prints, etc.), Toledo, O.

ELLER MFG. CO. (Steel & Sectional
Metallic), Canton, O. (See adv. index, end of book)

Federal Steel Fixture Co. (Steel), 407 W Kinzie, Chicago, Ill.
GENERAL FIRE-PROOFING CO. ("Allsteel" Metallic), Youngstown, O., & 156 5th av, New York. (See adv. index & branch offices, end of book)

Globe-Wernicke Co., Cincinnati, O.
Gray Mfg. Co., Muskegon, Mich.
Gunn Furniture Co., Grand Rapids, Mich.

Household Sewing Mach. Co., Providence, R. I.
Krag Imperial Cabinet Co. ("Allsteel"), 816 Fulton, Chicago, Ill.

Library Bureau (Metallic), 530 Atlantic av, Boston, Mass.
Macey Co. (Ltd.), Grand Rapids, Mich., & 343 B'way, New York

Metal Sectional Furniture Co. (Steel), Benton Harbor, Mich.
Moon Desk Co., Muskegon, Mich.

National Account File Co., Tremont, O.
Office, Bank & Library Co. (Metallic & Wood), 157 Summer, Boston, Mass.

Ohmer's, M. Sons Co., Dayton, O.
Ohnstrand Metal Furniture Co. (Metallic), Jamestown N. Y., & 5 & 7 E 42d, New York

Rockwell-Wabash Co., Chicago, Ill.
Simple Account File Co., Fremont, O.
Tucker File & Cabinet Co., Ilion, N. Y.

Wabash Cabinet Co., Wabash, Ind.
Wagemaker Furniture Co., Grand Rapids, Mich.
Yawman & Erbe Mfg. Co., Rochester, N. Y., & 360 B'way, N. Y.

Fillers (Barrel)

Moran Flexible Steam Joint Co. (Automatic), Louisville, Ky.

***Fillers (Dry Earth)**

WILBUR, JOB, CO. Office, Providence, R. I. Factory, Phila., Pa. (See adv. index, end of book)

***Fillers (Iron Casting)**

Canton Paint & Varnish Co., Canton, O.
SMITH, J. D., FOUNDRY SUPPLY Co., 1581 Columbus rd., N. W., Cleveland, O. (See adv. index, end of book)

Fillers (Iron Paste)

(See Iron Paste Fillers)

Fillers (Iron & Steel)

(See Iron & Steel Fillers)

Fillers (Paper & Paint)

(See Paper & Paint Fillers)

Fillers (Wood)

(See Wood Fillers)

Fillet (Leather)

Benskin Mfg. Co., Canton, O.
Butler, A. G., 284 Pearl, N. Y.
Everett, A. & Son, Auburn, N. Y.
Page Belting Co., Concord, N. H.
Paxson, J. W. Co., (Also Metallic), 1021 N Delaware av, Phila., Pa.
Shanafelt Mfg. Co. ("Belding"), Canton, O.
Timmis & Clissold, Bound Brook, N. J.

Fillets (Pattern)

Benskin Mfg. Co., Canton, O.
Brimm, A. W., Seneca Falls, N. Y.
Knight, H. W. & Son, Seneca Falls, N. Y.
Page Belting Co., Concord, N. H.
Paxson, J. W. Co., 1021 N Delaware av, Phila., Pa.
Shanafelt Mfg. Co. (Obtuse Angle Wood), Canton O.

Filter Cloth Mfrs.

Gulf Bag Co., 330 Notre Dame, New Orleans, La.
Lane, J. H. & Co., 110 Worth, New York
Shriver, T. & Co., 333 E. 56th, N. Y.

***Filtering Sand**

NEW YORK CONTINENTAL JEW-
ell Filtration Co., 15 Broad, New York & 167 Dearborn, Chicago, Ill. (See adv. index, end of book)

Filtering & Aerating Water Plants

American Pure Water Supply Co., Ashtabula, O.
KEWANEE WATER SUPPLY CO., Kewanee, Ill. (See adv. index, end of book)

Filtering & Purifying Plants Installed

Cummings Filter Co., 27th & Liberty, Pittsburgh, Pa.
Deutsch, Claude L., 141 B'way, N. Y.

DODGE MFG. CO., Mishawaka, Ind. (See adv. index & branch offices, end of book)
Jackson Filter Mfg. Co., Chemical bldg, St. Louis, Mo.

LOOMIS-MANNING FILTER CO., S28
Land Title bldg, Phila., Pa. (See adv. index, end of book; branch offices, end of book)

NEW YORK CONTINENTAL JEW-
ell Filtration Co., 15 Broad, N. Y., & 167 Dearborn, Chicago, Ill. (See adv. index, end of book)

PITTSBURG FILTER MFG. CO., Farmers Bank bldg, Pittsburgh, Pa. (See adv. opp. next page)

Reisert, Hans Co. (Ltd.) (American Branch), 17 Battery pl, New York
Roberts Mfg. Co., 3011 Chestnut, Phila., Pa.

SCAIFE, WM. B. & SONS CO., 221 1st av, Pittsburgh, Pa. (See adv. index, end of book)

Filters (Ale & Beer)

Loew Mfg. Co. ("Loew"), Cleveland, O.

Filters (Bag)

(Is classified in its order, under Sugar Machinery, in the Letter S.)

***Filters (Charcoal)**

LOOMIS-MANNING FILTER CO., S28
Land Title bldg, Phila., Pa. (See adv. index & branch offices, end of book)

NEW YORK CONTINENTAL JEW-
ell Filtration Co., 15 Broad, New York & 167 Dearborn, Chicago, Ill. (See adv. index, end of book)

PITTSBURG FILTER MFG. CO., Farmers Bank bldg, Pittsburgh, Pa. (See adv. index, end of book)

SCAIFE, WM. B. & SONS CO., 221 1st av, Pittsburgh, Pa. (See adv. index, end of book)

Filters (Faucet)

Landers, Frary & Clark ("Crown"), New Britain, Conn.

Filters (Feed Water)

American Water Softener Co., 1001 Mutual Life bldg, Phila., Pa.
Baragwanath, Wm. & Son, 52 W Division, Chicago, Ill.
Colles, E. G. T. & Co., 44 S. Clinton, Chicago, Ill.

DODGE MFG. CO., Mishawaka, Ind. (See adv. index & branch offices, end of book)
Duquesne Mfg. Co. ("Gunning"), Park bldg, Erie Machine Shops ("Jackson"), Erie, Pa.

Fulton Iron Works (Llewellyn), San Francisco, Cal.
General Engineering Co. (Inc.), 10 N. 13th, Phila., Pa.

Harrison Safety Boiler Works ("Sorge"), 17th below Allegheny av, Phila., Pa.
Hygeia Filter Co., Detroit, Mich.

Jackson Filter Mfg. Co., Chemical bldg, St. Louis, Mo.
Kennicott Water Softener Co., Railway Exchange, Chicago, Ill.

Liberty Mfg. Co., 6907 Susquehanna av, Pittsburgh, Pa.
LOOMIS-MANNING FILTER CO., S28
Land Title bldg, Phila., Pa. (See adv. following page; branch offices, end of book)

McGowau, Jno. H. Co., Cincinnati, O.
NEW YORK CONTINENTAL JEW-
ell Filtration Co., 15 Broad, New York & 167 Dearborn, Chicago, Ill. (See adv. index, end of book)

Norwood Engineering Co., Florence, Mass.
PITTSBURG FILTER MFG. CO., Farmers Bank bldg, Pittsburgh, Pa. (See adv. index, end of book)

Platt Iron Works Co., Dayton, O., & 100 B'way, New York
Roberts Mfg. Co., 3011 Chestnut, Phila., Pa.

SCAIFE, WM. B. & SONS CO., 221 1st av, Pittsburgh, Pa. (See adv. index, end of book)

Stewart Heater Co., 396 Norfolk av, Buffalo, N. Y.
Ward & Upright Engineering Co. (Ward's Combination), 41 York, Brooklyn, N. Y.

Filters (Gravity & Pressure)

Cummings Filter Co., 27th & Liberty, Pittsburgh, Pa.
DODGE MFG. CO., Mishawaka, Ind. (See adv. index & branch offices, end of book)

Deutsch, Wm. M., 141 B'way, New York
Field Force Pump Co. ("Carter's"), Elmira, N. Y.

Giessel, Henry & Co. (for Cars & Stations), Chicago
Greer Filter Co., Perry bldg, Phila., Pa.

Hungerford Filter Corporation, Harrison bldg, Phila., Pa.
Jackson Filter Mfg. Co., Chemical bldg, St. Louis, Mo.

LOOMIS-MANNING FILTER CO., S28
Land Title bldg, Phila., Pa. (See adv. following page; branch offices, end of book)

NEW YORK CONTINENTAL JEW-
ell Filtration Co., 15 Broad, N. Y., & 167 Dearborn, Chicago, Ill. (See adv. index, end of book)

Lynn Filter Mfg. Co. (stone felters) 3250 Spring Grove av., Cincinnati, Ohio.

PITTSBURG FILTER MFG. CO., Farmers Bank bldg, Pittsburgh, Pa. (See adv. index, end of book)

Reisert, Hans Co. (Ltd.) (American Branch), 17 Battery pl, New York
Roberts Mfg. Co., 3011 Chestnut, Phila., Pa.

SCAIFE, WM. B. & SONS CO., 221 1st av, Pittsburgh, Pa. (See adv. index, end of book)

Filters (Mechanical)

(Is classified in its order under Sugar Machinery in the Letter S.)

Filters (Oil)

Abbott Filter Mfg. Co. ("New Wonder"), Lambertville, N. Y.
Aeton, John (The "Nelson" Grit or Mud), 118 John, Brooklyn, N. Y.

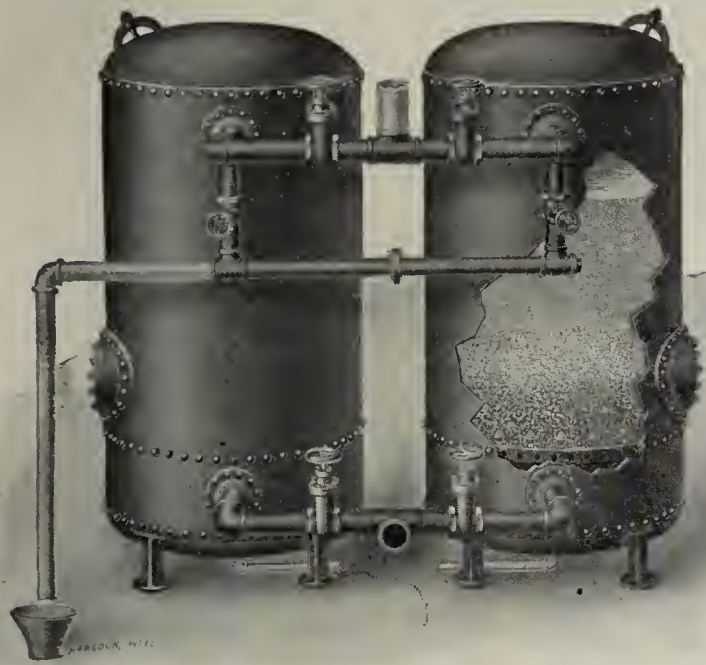
Akron Belting Co. (Krotz), Akron, O.
American Water Softener Co., 1001 Mutual Life bldg, Phila., Pa.

Bailey, F. E. & Co. ("Rival"), Atlanta, Ga.
Bates Machine Co., Joliet, Ill.

Bonar, Jas. & Co. ("The Bonar"), Frick bldg, Pittsburgh, Pa.
Bonner, W. T. ("Wiltbonco-Hogan"), 246 Summer, Boston, Mass.

Burt Mfg. Co. ("The Cross," "Warden" "American," "Unit"), Akron, O.
Capilar Co. ("Capilar"), 136 S. 4th, Phila., Pa.

Scaife Patented Water Filters.



Large Steel Pressure and Gravity Filters

For Municipalities, Office Buildings, Factories and Dye Houses, of any desired capacity.

Sand and Charcoal Filters

Especially adapted for Private Residences.

Tripoli Filters

For Drinking Water in Private Residences, Hotels and Office Buildings.

Write for Descriptive Catalogues.

MANUFACTURED BY

WM. B. SCAIFE & SONS CO., Founded 1802, **Pittsburgh, Pa.**

GRAVITY AND PRESSURE FILTERS

CONSTRUCTED UNDER

Jewell, Hyatt, Warren, Continental and Other Patents

The acknowledged standard of Mechanical Filtration for City and Town Supplies, Residences, Hotels, Office Buildings. Laundries, Mills, Dye and Bleach Works, Bottlers, etc., etc.

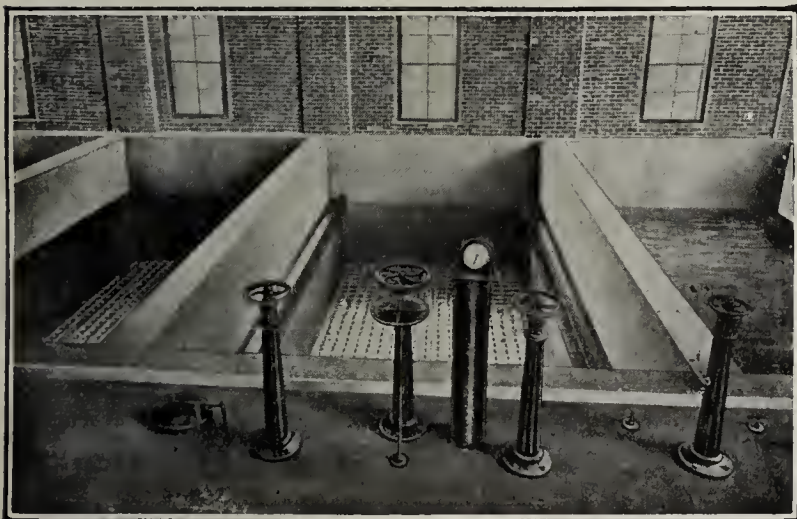
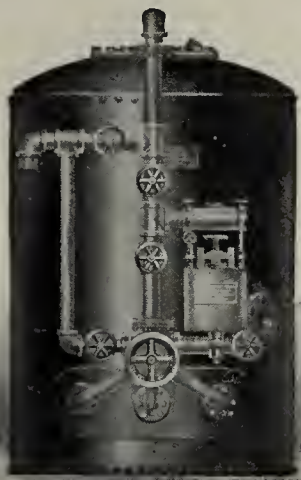
ESTIMATES FURNISHED.

WRITE FOR CATALOGUE

The New York Continental Jewell Filtration Co.,
General Contractors.

15 Broad St., NEW YORK

167 Dearborn St., CHICAGO



Pittsburgh Filter Manufacturing Co.

MANUFACTURERS OF

GRAVITY FILTERS

PRESSURE FILTERS

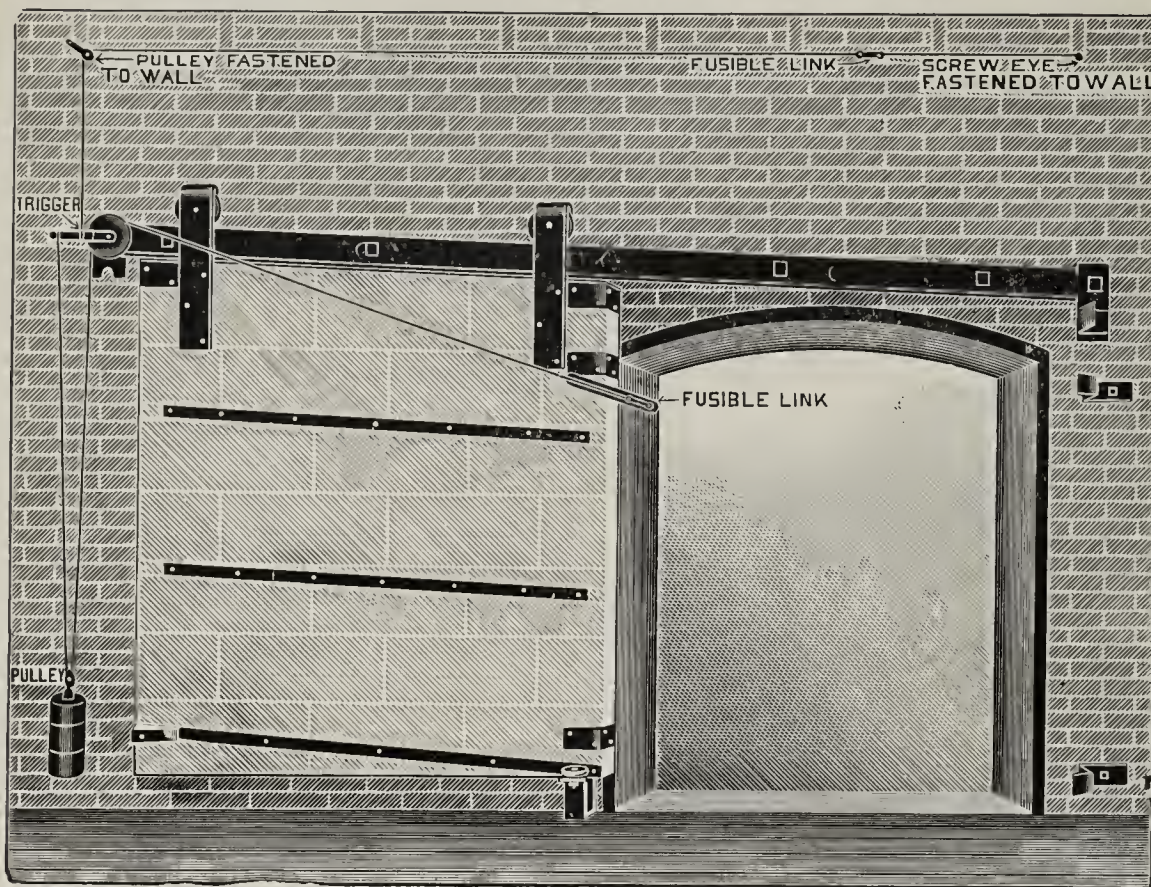
WATER SOFTENING PLANTS

FARMERS BANK BUILDING

PITTSBURGH, PA.

RICHARDS MONARCH FIRE DOOR FIXTURES

No. 102



[FOR STANDARD 3-PLY TIN CLAD DOORS]

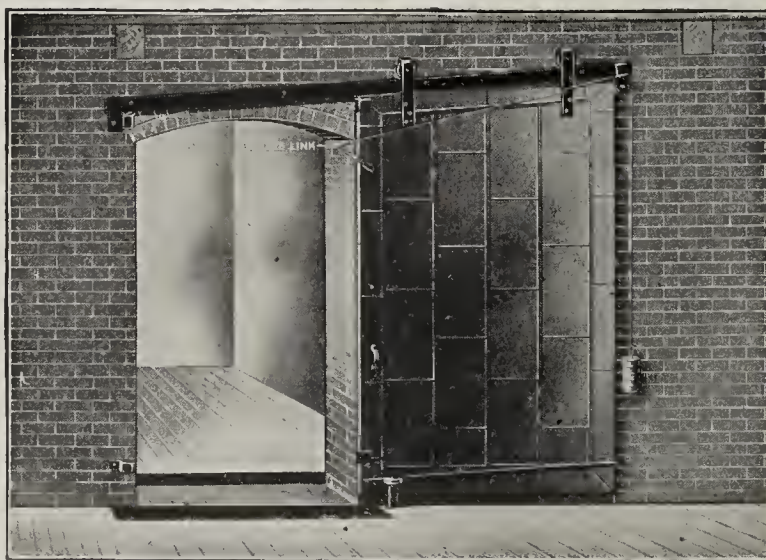
Manufactured by **THE RICHARDS MFG. CO., AURORA, ILL.**
NEW YORK OFFICE, 101 READE STREET



Included in the list of Fire Door Hardware examined under the standard requirements of the National Board of Fire Underwriters, by the National Fire Protection Association, after exhaustive investigation by the Underwriters' Laboratories, and approved for use.

STANDARD FIRE-PROOF DOORS AND FIXTURES

INDORSED
EVERYWHERE
BY
UNDERWRITERS



EVERY SET
GUARANTEED
BY US

SEND FOR
No. 25
CATALOGUE

SEND FOR
No. 25
CATALOGUE

COBURN TROLLEY TRACK MFG. CO.
HOLYOKE, MASS.

Chestertou, A. W. & Co., 64 India, Boston, Mass.
 Collins Mfg. Co. ("Collins" Automatic System), Bourse bldg, Phila., Pa.
 Dixie Mfg. Co. ("Dixie"), Bourse bldg., Phila., Pa.
 Durable Steam Trap Co., Youngstown, Ohio.
 Flint, S. E. & Co. ("St. Louis"), Security bldg, St. Louis, Mo.
 Flower, Walter M. & Co. ("The Acme"), 721 Oliver, St. Louis, Mo.
 Francis & Comas ("Imperial"), 115 N. 6th, Philadelphia, Pa.
 Gallway, G. W. ("Economy"), 322 Pearl, New York
 Gwilliam, Jos. R. ("Imperial"), 115 N. 6th, Phila., Pa.
 Haines, W. S. Co., 136 S 4th, Phila., Pa.
 Hall Mfg. Co., 62 Cliff, New York
 Handlan-Buck Mfg. Co. ("Superior"), 212 N. 3d, St. Louis, Mo.
 Houghton, E. F. & Co. ("The Houghton"), 240 W Somerset, Phila., Pa.
 Jarecki Mfg. Co. (Automatic Pressure), Erie, Pa.
 Kosmic Oil Filter Co., Easton, Pa.
 Kruger & Blind Co., 511 Master, Phila., Pa.
 Morris, Elmer P. Co. ("Cross"), 51 Dey, New York
 National Separator & Mfg. Co., Manchester, N. H.
 Newmau-Willson Co. ("New Wonder"), Lambertville, N. J.
 Northrup Lubricator Co. ("Famous"), St. Louis, Mo.
 Nusbaum, F. A., Dayton, O.
 Peoria Automatic Filter Co. (The Peoria, Automatic), Peoria, Ill.
 Phoenix Automatic Filter Co. ("Tracy"), Racine, Wls.
 Pierce, Adams True ("Porter"), Dover, N. H.
 Pittsburgh Gauge & Supply Co. (White Star), 309 Water, Pittsburgh, Pa.
 Purity Oil Filter Mfg. Co. ("Ideal" of "Purity"), Pittsburgh, Pa.
 Quincy-Manchester-Sargent ("Perfection"), Chicago, Ill.
 Robertson, Jas. L. & Sons, Inc., 48 Warren, Scranton Oil Filter Co., Scranton, Pa. N. Y.
 Sims Co., Erie, Pa.
 Turner, M. A. (The Turner), South Bend, Ind.
WILSON, F. CORTEZ & CO., 239
 Lake, Chicago, Ill. (See adv. index, end of book)

*Filters (Oil Refiners')

Hammond Iron Works, Warren, Pa.
SCAIFE, WM. B. & SONS CO., 221 1st
 av, Pittsburgh, Pa. (See adv. index, end of book)
 Struthers-Wells Co., Warren, Pa.

Filters (Sand)

LOOMIS-MANNING FILTER CO., 828
 Land Title bldg, Phila., Pa. (See adv. below)
NEW YORK CONTINENTAL JEWELL
 Filtration Co., 15 Broad, New York & 167 Dearborn, Chicago, Ill. (See adv. index, end of book)

PITTSBURG FILTER MFG. CO.,
 Farmers Bank bldg, Pittsburgh, Pa. (See adv. index, end of book)
 Remmers, B. & Sons (Automatic, for Sugar, Glucose & Chemical Liquors, etc.), Bourse bldg, Phila., Pa.
 Roberts Mfg. Co., 3011 Chestnut, Phila., Pa.
SCAIFE, WM. B. & SONS CO., 221 1st
 av, Pittsburgh, Pa. (See adv. index, end of book)

Filters (Tripoli)

National Filter Co., Columbus O.
 Roberts Mfg. Co., 3011 Chestnut, Phila., Pa.
SCAIFE, WM. B. & SONS CO., 221 1st
 av, Pittsburgh, Pa. (See adv. index, end of book)
 Seneca Filter Co., Seneca, Mo.

Filters (Waste Oil)

Hudson Rolling Mill Co. ("Hudson"), Bloomfield, N. J.
WILSON, F. CORTEZ & CO., 239
 Lake, Chicago, Ill. (See adv. index, end of book)

Filters (Water)

American Sewage Disposal Co., 643 Old South bldg, Boston, Mass.
 Aquapura Filter Mfg. Co., 312 Market, St. Louis, Mo.
 Berkefeld Filter Co. (A. Giesse), 4 Cedar, New York
 Buffalo Mfg. Co., Buffalo, N. Y.
 Buhning Water Purifying Co., 68 Murray, New York
 Cummings Filter Co. (Bone Black only), 27th & Liberty, Pittsburgh, Pa.
DODGE MFG. CO., Mishawaka, Ind.
 (See adv. index & branch offices, end of book)
 Deutsch, Wm. M., 141 B'way, New York
 Federal Filtration System, 141 B'way, N. Y.
 Field, David W., Builders' Exchange, Phila., Pa.
 Fulper Pottery Co. (Portable Natural Stone, Germ Proof), Flemington, N. J.
 General Engineering Co. (Inc.), 10 N. 13th, Phila., Pa., & 419 W. 42d, N. Y.
 Globe Filter Co., 1015 Sansom, Phila., Pa.
 Hungerford Filter Corporation, Harrison bldg, Phila., Pa.
 Hygei Filter Co. ("Bowden," "Climax," "Eclipse," "Ideal," "Monarch" & "Monitor"), Detroit, Mich.
 Jackson Filter Mfg. Co., Chemical bldg, St. Louis, Mo.
 Jones Mfg. Co. ("Gem," "Hub," "Modern," "Mystic"), 243 Franklin, Boston, Mass.
KOVEN, L. O. & BRO., 50 Cliff, New
 York (See adv. index, end of book)
 Levi Filter Co., Charleston, W. Va.
LOOMIS-MANNING FILTER CO., 828
 Land Title bldg, Phila., Pa. (See adv. below)
 Lynn Filter Mfg. Co. (Quartz Filters), 3250 Spring Grove av, Cincinnati, O.
 National Filter Co., Columbus, O.
NEW YORK CONTINENTAL JEWELL
 Filtration Co., 15 Broad, N. Y., & 167 Dearborn, Chicago, Ill. (See adv. index, end of book)
 Norwood Engineering Co. (Filters for Mills), Florence, Mass.

Paddock Water Filter Co., Buffalo, N. Y.
 Penn Engineering Co. (Inc.) (Of all descriptions), 1421 Filbert, Phila., Pa.
PITTSBURG FILTER MFG. CO. (For
 Hotels, Hospitals, etc.), Farmers Bank bldg, Pittsburgh, Pa. (See adv. index, end of book)
 Rapid Safety Filter Co., 135 Front, New York
 Reed Filter Co., San Francisco, Cal.
 Reisert, Hans Co. (Ltd.) (American Branch), 17 Battery pl, New York
 Roberts Mfg. Co. (for every Purpose), 3011 Chestnut, Phila., Pa.
 Ross Valve Co. ("Rallton," "Campbell"), Troy, N. Y.
SCAIFE, WM. B. & SONS CO. (for
 Dwellings, Hotels, Hospitals, etc.), 221 1st av, Pittsburgh, Pa. (See adv. index, end of book)

Filters (Water, Portable)

American Filter Co. ("Noxall"), Milwaukee, Wis.
 Buffalo Mfg. Co., Buffalo, N. Y.
 Champion Safety Lock Co. (Germ Proof), Geneva, O.
 Linke, T. & Co. (Stone Tub), 1559 B'way, N. Y.
 Pasteur-Chamberland Filter Co. (Pasteur Germ Proof), Dayton, O.
 Royal Machine Co., 61 N. J. R. av, Newark, N. J.
 Wetherill, Robert & Co. (Roeske System), Chester, Pa.

*Filters & Kilns (Charcoal, Etc.)

SCAIFE, WM. B. & SONS CO., 221 1st
 av, Pittsburgh, Pa. (See adv. index, end of book)

*Finials (Galvanized Steel Roofing)

(See also Crestiugs & Finials, Sheet Metal)
INDIANAPOLIS STEEL ROOFING & Corrugating Co., Indianapolis, Ind. (See adv. index, end of book)

*Finish (Flatline Cabinet)

STANDARD VARNISH WORKS, 29
 B'way, New York. (See adv. index & branch offices, end of book)

*Finish (Flatline Wood)

STANDARD VARNISH WORKS, 29
 B'way, New York. (See adv. index & branch offices, end of book)

Finish (Hard Oil)

(See Hard Oil Finish)

*Finish (Hard Oil "Luxeberry")

BERRY BROS. (Limited), Detroit, Mich. (See adv. index & branch offices, end of book)

Finish (Wall)

(See Wall Finish)

LOOMIS FILTERS.

ESTABLISHED 1880.

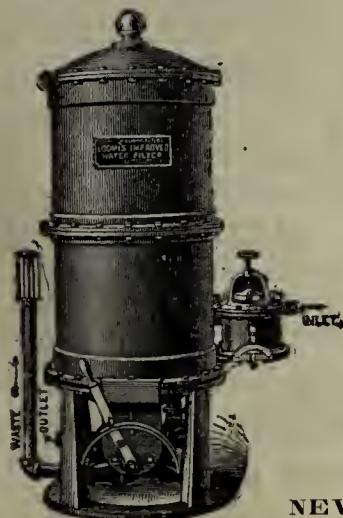
Our Patents cover the only safe principles, and the latest mechanical apparatus for the filtration of water.

Private Residences, Hotels, Office Buildings, Apartment Houses, Clubs, Public and Private Institutions, Mills, Factories, Boiler Plants, Laundries, Dye and Bleach Works, Bottling Establishments, Etc. Villages, Towns and City Water Supplies.

LOOMIS-MANNING FILTER CO.,

Main Office, 828 LAND TITLE BUILDING,
 Broad and Chestnut Streets,
 PHILADELPHIA, PA.

NEW YORK. BOSTON. BUFFALO. BALTIMORE. WASHINGTON.



***Finishes (Elastica)**

STANDARD VARNISH WORKS, 29
B'way, New York. (See adv. index & branch
offices, end of book)

***Finishes ("Luxeberry")**

BERRY BROS. (Limited), Detroit,
Mich. (See adv. index & branch offices, end
of book)

***Fire-Box Boilers (Heating & Power)**

KEWANEE BOILER CO., Kewanee,
Ill., & 169 E. Lake, Chicago, Ill. (See adv.
index, end of book)

Fire Clay

American Fire Brick & Clay Co., Mineral City,
Ohio
Argillo Works (Milled), Rock Island, Ill.
Atlanta Terra Cotta Co., 6 N. Forsyth, Atlanta,
Ga.
Baltimore Terra Cotta Works (Ground & in
Bulk), Baltimore, Md.
Berry, James E., Woodbridge, N. J.
Bloomfield Clay Co., Metuchen, N. J.
Borgner, Cyrus Co., 23d ab. Race, Phila., Pa.
Brooklyn Fire Brick Works (Inc.), 88 Van Dyke,
Brooklyn, N. Y.
Buckeye Fire Clay Co. (Ground, etc.), Uhrichs-
ville, O.
Christy Fire Clay Co., Morgan Ford rd. & Gra-
vois av., St. Louis, Mo.
Cooper, John, 111 Clay, Brooklyn, N. Y.
Denny-Renton Clay & Coal Co., Seattle, Wash.
Didier-March Co., 15 Park Row, New York, N. Y.
Dover Fire Brick Co., Cuyahoga Bldg., Cleve-
land, O. Works, Strasburg, O.
Duffy, J. P. Co., 440 & 138th, New York
FISKE & COMPANY (Inc.), 161 Dev-
onshire, Boston, Mass., & Flat Iron Bldg.,
New York. (See adv. index, end of book)
Fultonham Brick Co. (Ground), Axline, O.
Garfield Fire Clay Co., Robinson, Pa.
Gaulier, J. H. & Co. (Also Ground), Jersey City,
N. J.

Harbison-Walker Refractories Co., Farmers' Bank
Bldg., Pittsburg, Pa., & 1133 B'way, New York City

Hatfield & Phillips, Alexandria, Pa.
Haydenville Co., Haydenville, O.
Hutchins, Jno. A. & Co., Wyoming, Pa.
Interstate Conduit & Brick Co., Scranton, Pa.
Iowa Pipe & Tile Co., Des Moines, Ia.

KREISCHER BRICK MFG. CO., 119
E 23d, New York. Works, Kreischerville,
S. I., N. Y. (See adv. index, end of book)

Laclede Fire Brick Mfg. Co., Manchester &
Sulphur avs, St. Louis, Mo.

Lincoln Fire Brick & Shape Co., Farmers' Bank
Bldg., Pittsburg, Pa.; Works, Bolivar, Pa.

Little Falls Fire Clay Co., Little Falls, Wash.
McLeod & Henry Co., Troy, N. Y.

Mack Mfg. Co., Land Title Bldg., Phila., Pa.;
Works, New Cumberland, W. Va.

Manown Mfg. Co. (Ground), Hussey Bldg., Pitts-
burg, Pa.

Massillon Stone & Fire Brick Co., Massillon, O.
MAURER, HENRY & SON, 420 E. 23d,
New York; Penna. Bldg., Phila., Pa. Works,
Maurer, N. J. (See adv. front inside cover)

Monmouth Mining & Mfg. Co., Monmouth, Ill.
Mutton Hollow Fire Brick Co. (Ground), Wood-
bridge, N. J.

Nelsonville Brick Co. (Ground), Nelsonville, O.
Nelsonville Sewer Pipe Co. (Ground), Nelson-
ville, O.

New York Pottery Co., 949 B'way, New York
Ohio Fire Brick Co., Oak Hill, O.

Ohio Fire Clay Mfg. Co., Steubenville, O.
Osceola Silica & Fire Brick Co., Osceola, Pa.

Peekskill Fire Brick Works, Peekskill, N. Y.
Penna Fire Brick Co., Beech Creek, Pa.

Presbrey Stove Lining Co., Taunton, Mass.
Richmond Clay Products Co., Reading, Pa.

Robinson Clay Product Co. (Ground), Akron, O.
RUTLAND FIRE CLAY CO., Rutland,
Vt. (See adv. index & branch offices, end of
book)

St. Louis Vitrified & Fire Brick Co., 107 N 7th,
St. Louis, Mo.

Smith, A. F. Co., New Brighton, Pa.
Southern Fire Brick & Clay Co., 138 Wash'n,
Chicago, Ill. Works, Mt. Silica, Ind.

Standard Fire Brick Co., Empire bldg, Pitts-
burg, Pa.
Standard Sand & Machine Co., 1509 St. Clair,
Cleveland, O.

Stevens, H. Sons Co. (Milled), Macon, Ga.
Stratton Fire Clay Co., Empire, O.

Streator Clay Mfg. Co., Streator, Ill.
Syracuse Stoneware Co. (Branch of Robinson
Clay Product Co. of Akron O.), Syracuse,
N. Y.

Sweeney, Geo. & Co., 1334 Ridge av., Phila.,
Tygart Fire Brick Co., Fullerton, Ky.

Washington Brick, Lime & Mfg. Co. (Milled &
Screened), Spokane, Wash.
Wassal Fire Clay Co., 40 E. Spring, Columbus, O.

Waterbury Crucible Co., Waterbury, Conn.
Wynn, W. H. & Co., Blue Bell, Pa.

Fire Clay (Magnesite)

Harbison-Walker Refractories Co., Farmers' Bank
Bldg., Pittsburg, Pa., & 1133 B'way, New
York City

Fire Department Sliding Poles

UNION EQUIPMENT AND BRONZE CO.
520 W 36th, N. Y. (See adv. outside stencil)

Fire Department Supplies

(Consult Index of Contents for the Particular
Article Required; see also Mill & Factory
Supplies.)

***Fire Door Fittings (Automatic)**

Automatic Door & Gate Co., 123 Liberty, New
York
Brewer Bros. (Rails, Brackets, etc.), 614 Filbert,
Philadelphia, Pa.

COBURN TROLLEY TRACK MFG. CO.,
Holyoke, Mass. (See adv. index, end of book)

Lane Bros. Co., Poughkeepsie, N. Y.
McCABE HANGER MFG. CO., 425 W.
25th, New York. (See adv. index, end of
book)

Newhall, Henry B., 9 Murray, New York.
Peters, James & Son (Sliding & Swinging Auto-
matic Fire Door & Shutter Hardware), 1934
N. Front, Philadelphia, Pa.

Prouty, T. C. Co. (Ltd.), Albion, Mich.
RICHARDS MFG. CO., Aurora, Ill.
(See adv. index & branch offices, end of book)

Standard Supplies Co., 123 Liberty, New York
Victor Mfg. Co. (Heat Releasing Devices), New-
buryport, Mass.

WILCOX MFG. CO., Aurora, Ill. (See
adv. index, end of book)

Fire Doors (Automatic)

COBURN TROLLEY TRACK MFG. CO.,
Holyoke, Mass. (See adv. index, end of book)

RAPP, JOHN W. (Underwriters')
Standard Tin Covered. Gen'l Offices & Works,
College Point, N. Y., & Sales Offices, 4 Mad-
ison av, New York. (See adv. index, end of
book)

Underwriters' Hatch Door Co. (Electric), 58 N.
Jefferson, Chicago, Ill.

Fire Engines (Chemical)

AMERICAN FIRE APPARATUS CO., 1
Madison av, New York. (See adv. index, end
of book)

America-La France Fire Engine Co., Elmira,
N. Y.

Boyd, James & Bro. ("Boyd," "Champion"), 14
N. 4th, New York

Chemical Fire Engine Co., Des Moines, Ia.
Fire Extinguisher Mfg. Co. ("Champion"), 373
Wabash av., Chicago, Ill.

Nott Fire Engine Co., Minneapolis, Minn.
Reading Fire Apparatus Works, Reading, Pa.

Rex Fire Extinguisher Co., 74 Cortland, New
Seagrave Co., Columbus, O.
Stempel Fire Apparatus Mfg. Co., 4250 N. 20th,
St. Louis, Mo.

Stewart, A. F. & S. C. (Combination Chemical
Engines & Hose Wagons), Rochester, N. Y.

Woodhouse Mfg. Co., 50 W. B'way, New York

Fire Engines (Gasoline)

Waterous Engine Works Co., St. Paul, Minn.

***Fire Engines (Hand)**

Badger Fire Extinguisher Co. ("Chemicals"), 32
Portland, Boston, Mass.
RUMSEY & CO. (Ltd.), Seneca Falls,
N. Y. (See adv. index & branch offices, end
of book)

Fire Engines (Steam)

Ahrens Fire Engine Co. ("Continental"), Al-
fred & Cook, Cincinnati, O.

American-LaFrance Fire Engine Co. (Also
Hand), Elmira, N. Y.

American Locomotive Co., 111 B'way, New
York

International Power Co. ("Amoskeag"), Old
South bldg, Boston, Mass.
RUMSEY & CO. (Ltd.), Seneca Falls,
N. Y. (See adv. index & branch offices, end
of book)

**Fire Escapes
CALIFORNIA.**

(See also Iron, Architectural & Ornamental)
SAN FRANCISCO—HARRIS SAFETY CO.
("Harris" Safety), 325 Van Ness av. (See
adv. on following page)

COLORADO.

(See Iron, Architectural & Ornamental)

CONNECTICUT.

(See Iron, Architectural & Ornamental)

DISTRICT OF COLUMBIA.

(See Iron, Architectural & Ornamental)

GEORGIA.

(See Iron, Architectural & Ornamental)

ILLINOIS.

AURORA—Love Bros. (Inc.)
CHICAGO—American Iron & Wire Works, 577
Carroll av

Benner Mfg. Co., 110 W Monroe
Braumoeller, Hy. & Son, 92 W Van Buren

Central Iron Works of Chicago, 256 W Lake
Cowles, J. T. Co., 224 E Wash'n

Enos Fire Escape Co., 179 N Sangamon
HALSTED, JOSEPH CO., 388 W
Randolph. (See adv. index, end of book)

HARRIS SAFETY CO. ("Harris"
Safety), Masonic Temple. (See adv. on
following page)

HICKEY, M. H., WIRE & IRON
Works, 54 Dearborn

Johnson, Chas. & Son, 95 E. Indiana
Johnston Iron Works, 112 Ohio

LONDON, E. R., IRON & WIRE
Works, 1243 Fillmore. (See adv. index, end
of book)

Petersen, H. A. Mfg. Co., 1326 Roscoe
Ruedel, John M., 514 Ogden av

SMITH, E. P., WIRE & IRON
Works, 100 Lake. (See adv. index, end of
book)

UNION FOUNDRY WORKS, First
National Bank bldg. (See adv. index, end
of book)

PEORIA—Lucas, A. & Sons
of book)

INDIANA.

(See Iron, Architectural & Ornamental)

IOWA.

(See Iron, Architectural & Ornamental)

KENTUCKY.

(See Iron, Architectural & Ornamental).

MAINE.

(See Iron, Architectural & Ornamental)

MARYLAND.

(See Iron, Architectural & Ornamental)

The BEST SAFEST AND MOST SUBSTANTIAL FIRE ESCAPE, made by P. RIESECK, Allegheny, Pa.
SEND FOR ESTIMATES.

MASSACHUSETTS.

(See Iron, Architectural & Ornamental).

MICHIGAN.

(See also Iron, Architectural & Ornamental)

DETROIT—AMOS, CHARLES & CO., 94
W Larned. (See adv. index, end of book)
BOLLES, J. E., IRON & WIRE
Works, 4th av & Porter. (See adv. index,
end of book)
RUSSEL WHEEL & FOUNDRY
Co. (See adv. index, end of book)
VULCAN CO. (See adv. index, end
of book)

MINNESOTA.

(See Iron, Architectural & Ornamental)

MISSOURI.

(See also Iron, Architectural & Ornamental)

ST. LOUIS—HARRIS SAFETY CO.
("Harris" Safety), 2215 Olive. (See adv.
below)

NEBRASKA.

(See Iron, Architectural & Ornamental)

NEW JERSEY.

(See Iron, Architectural & Ornamental)

NEW YORK.

(See also Iron, Architectural & Ornamental)

ALBANY—HARRIS SAFETY CO.
("Harris" Safety), 33 Tweedle bldg. (See
adv. below)
BROOKLYN—(See New York city. Borough of
Brooklyn)
BUFFALO—BUFFALO WIRE WORKS
Co. (See adv. index, end of book)
Ernst's, Chas. F. & Sons, 65 Lathrop
HARRIS SAFETY CO. ("Harris"
Safety), 72 W Genesee. (See adv. below)

NEW YORK CITY.**Borough of Brooklyn.**

BROOKLYN—AJAX IRON & WIRE CO.,
75 York. (See adv. index, end of book)
Child, W. C. W., 353 Kingsland av
Clarke & Stowe, 232 Kent
Eagle Iron Works (Inc.), 850 De Kalb av
Fluegel, Anton, 221 Cook
Green, Bryan G., 207 Pacific
Hecla Iron Works, N. 11th & Berry
Kennington, Geo. W., ft 24th
Licari, Jas., 250 18th
Rellance Architectural Iron Works, 249 Moni-
tor
Schubett Architectural Iron Works, 62 N 1st
Webb & Bloss, 251 Monitor

Boroughs of Manhattan & Bronx

NEW YORK—Ahr. Anton, 701 Elton av
Allgoever, Chas. W., 1069 Boston rd

AMERICAN FIRE APPARATUS CO.(Chain Ladder), 1 Madison av. (See adv.
on following page)

Bayer, Chas. Co., 407 E 124th
BETHLEHEM FOUNDRY & MA-
chine Co., 149 B'way. (See adv. index, end
Bowes, John J., 227 W. 29th of book)
Brady & Hauptmann, 410 E 104th
Central Iron Works, 420 E 48th
Cornell, J. B. & J. M. Co., 26th & 11th av
Grosman Geo. J. Co., 607 E 18th
Dimond, Thomas, 128 W 33d
Glen Mfg. Co., 181 B'way
Happel, Adam, 1803 1st av

HARRIS SAFETY CO. ("Harris"
Safety), 1133 B'way. (See adv. below)

JACKSON, WM. H. COMPANY, 29
E 17th (Union sq) (See adv. index, end of
book)

Lee Portable Fire Escape Co., 853 B'way
Lyon, W. E. Iron Works, 202 E 46th
Nuhn, Conrad, 8 2d
Palmer, B., 231 W 50th
Palmer, Harris, 517 W 130th
Parker-Bruen Mfg. Co. (Inc.) (Model Auto-
matic Folding, Interior & Exterior Instal-
lations), B'way & 26th
Schultis, H., 310 W 133d
Vreeland, G. A., 229 W. 36th

Borough of Queens.

(See Iron, Architectural & Ornamental).

OHIO.

(See also Iron, Architectural & Ornamental)

CANTON—COLUMBIA IRON & WIRE
Works Co. (See adv. index, end of book)
CINCINNATI—KAMMAN, WALTER,
Front & Lawrence. (See adv. index, end
of book)
Schreiber, L. & Sons Co., 8th & Eggleston av
Union Iron Works Co., Colerain av & Sassa-
fras

CLEVELAND—McArthur Portable Fire Escape
Co. (Portable), 1999 Clark av, S. W.
DAYTON—American Fence & Forge Co.

CITY FORGE & IRON WORKS
(Andrew Plocher, Prop.), Dayton, O. (See
adv. index, end of book)

KENTON—CHAMPION IRON CO. (See
adv. index, end of book)

SANDUSKY—OHIO STRUCTURAL IRON
Co. (See adv. index, end of book)

TOLEDO—DONOVAN WIRE & IRON
Co. (See adv. index, end of book)

YOUNGSTOWN—HARRIS SAFETY CO.,
("Harris" Safety). (See adv. below)

OREGON.

(See Iron, Architectural & Ornamental)

PENNSYLVANIA.

(See also Iron, Architectural & Ornamental)

ALLEGHENY—Baker Mfg. Co., Allegheny &
South avs.

RIESECK, P., Allegheny av &
Rebecca. (See adv. on preceding page)

PHILADELPHIA—DARBY, EDW. & SONS
Co., 231 Arch. (See adv. index, end of
book)

HARRIS SAFETY CO. ("Harris"

Safety), 3323 Park av. (See adv. below)

MERRITT & CO., 1024 Ridge av.
(See adv. index, end of book)

REMPPIS, WILLIAM F. CO., 1506
Sansom. (See adv. index, end of book)

PITTSBURG—TAYLOR & DEAN, 205
Market. (See adv. index, end of book)

Vilsack, Martin Co. (Ltd.), 3222 Penn av.
READING—REMPPIS, WILLIAM F. CO.
(See adv. index, end of book)

SOUTH BETLEHEM—BETHLEHEM
Foundry & Machine Co., Front. (See adv.
index, end of book)

RHODE ISLAND.

(See Iron, Architectural & Ornamental)

TENNESSEE.

(See Iron, Architectural & Ornamental)

VIRGINIA.

(See Iron, Architectural & Ornamental)

WISCONSIN.

(See Iron, Architectural & Ornamental)

Fire Escapes (Automatic)

HARRIS SAFETY CO., 1133 B'way,
New York. (See adv. below)

Hayward, S. F. & Co., 20 Warren, New York
Life Saving Fire Escape Co., (Steel Collapsible
or folding Ladder), Tremont bldg, Boston,
Mass.

Parker-Bruen Mfg. Co. (Inc.) ("Model," "Cham-
pion" Folding), B'way & 26th, New York

***Fire Escapes (Chain Ladder)**

AMERICAN FIRE APPARATUS CO., 1
Madison av, New York. (See adv. on fol-
lowing page)

Fire Escapes (Covert Patent)

Covert Fire Escape Co., Green Island, Troy,
N. Y.

Fire Escapes ("Kirker-Bender")

Dow Wire & Iron Works, Louisville, Ky.

***Fire Escapes (Rolling)**

COBURN TROLLEY TRACK MFG.
Co., Holyoke, Mass. (See adv. index, end
of book)

Fire Escapes (Rope)

Hayward, S. F. & Co., 20 Warren, New York
Small, D. D., Waltham, Mass.

Travers, J. P. & Son, 46 Beekman, New York

FIRE Escapes Extinguishers IRON WORK

THE NATIONAL STAIRWAY
FIRE ESCAPES

THE HARRIS STEEL CABLE
FIRE ESCAPES

THE HARRIS SAFETY CO.

General Office and Sales Room

FACTORY
Youngstown, Ohio

No. 39 East 20th Street
NEW YORK

CLEVELAND, OHIO
Rockefeller Bldg.

Fire Extinguishers

(See also Sprinklers, Automatic Fire.)

CALIFORNIA.

SAN FRANCISCO—Goodyear Rubber Co., 573 Market

HARRIS SAFETY CO., 325 Van

Ness av. (See adv. on preceding page)

Johns, H. W.—Manville Co. ("Manville" Dry

Powder), 180 2d

McNally, M. J., 260 1st

Moore, Geo. P. & Co., 325 Van Ness av

CONNECTICUT.

HARTFORD—Pope Mfg. Co. ("Kilfyre" Dry

Powder)

ILLINOIS.

CHICAGO—Chicago Fire Apparatus Co., 93

Lake

General Fire Extinguisher Co. (Automatic),

Royal Ins. bldg.

HARRIS SAFETY CO., Masonic

Temple. (See adv. on preceding page)

Johns, H. W.—Manville Co. ("Manville" Dry

Powder), 171 Randolph

McMorran, Edw. E. & Co., 15 N Clinton

Miller Chemical Engine Co., 149 Huron

Minima Extinguisher & Supply Co. (Liquid),

356 Dearborn

Niagara Fire Extinguisher Co., 226 La Salle

Phoenix Fire Extinguisher Co., First Na-

tional Bank bldg

INDIANA.

INDIANAPOLIS—**HARRIS SAFETY CO.,**

135 E Market. (See adv. on preceding

page)

LOGANSPOUT—Ohenchain & Boyer

MARYLAND.

BALTIMORE—Maryland Chemical Co., 227 W

Mulberry

MASSACHUSETTS.

BOSTON—**BADGER, E. B. & SONS CO.**

(Automatic Chemical), 75 Pitts (See adv.

index, end of book)

Badger Fire Extinguisher Co., 32 Portland

Barnes, Henry K. ("Fire King" Chemical),

104 Franklin

Callahan, Cornelius Co., 127 Purchase

Chemical Hand Fire Extinguisher Co., 213

Tremont

General Fire Extinguisher Co. (Automatic).

HARRIS SAFETY CO., 101 Tre-

mont. (See adv. on preceding page)

Knight & Thomas, 31 Central

Standard Extinguisher Co., 78 Portland

Walworth Mfg. Co., 128 to 136 Federal

HUBBARDSTON—McWilliams, J. E. & Son

LAWRENCE—Perkins, C. N. Co.

WORCESTER—Ashley, J. P. Co.

Howe, G. S. & A. J. ("Monarch")

MICHIGAN.

DETROIT—**AMOS, CHARLES & CO., 94**

W Larned. (See adv. index, end of book)

Ireland & Matthews Mfg. Co. ("I. & M.")

MISSOURI.

KANSAS CITY—Johns, H. W.—Manville Co.

("Manville" Dry Powder), 1416 Main

ST. LOUIS—Fire Dust Co., National Bank of

Commerce bldg

General Fire Extinguisher Co. (Automatic).

HARRIS SAFETY CO., 2215 Olive.

(See adv. on preceding page)

Meyerose Lamp & Mfg. Co.

Missouri Lamp & Mfg. Co. ("Acme," "Roy-

al," "Phoenix," "Advance," "Missouri,"

"U. S.," "Rex" & "Able"), 114 Elm

Stempel Fire Extinguisher Mfg. Co., 4250

N 20th

NEW HAMPSHIRE.

LACONIA—**ESTY SPRINKLER CO.**

NEW JERSEY.

NEWARK—Landau, Henry W. ("Fite Fire,"

Dry Powder Chemical), 117 Green

Tea Tray Co. of Newark, N. J. ("The

Newark"), Mulberry & Murray

TRENTON—Hunt, Jas. B. Mfg. Co.

NEW YORK.

ALBANY—**HARRIS SAFETY CO., 33**

Tweedle bldg. (See adv. on preceding page)

BUFFALO—General Fire Extinguisher Co.

(Automatic)

HARRIS SAFETY CO., 72 W Genesee

(See adv. on preceding page)

Western Inspection Co.

NEW YORK—Adams Fire Extinguisher Wks.

("Competitor" Chemical & "Best" Chemi-

cal & "Eagle" Dry Powder), 79 E 130th

Adams, Otto (Chemical), 79 E 130th

AMERICAN FIRE APPARATUS CO.

1 Madison av, New York. (See adv. below)

Badger Fire Extinguisher Co., 299 B'way

Bessemir, John & Son, 125 Worth

Boyd, Jas. & Bro. ("Boyd" Champion"),

14 N. 4th

Columbia Fire Extinguisher Co., 404 Broome

Fyricide Mfg. Co., 44 Murray

General Fire Extinguisher Co. (Automatic),

111 B'way

Goldstein, Albert & Co., 64 Cortlandt

HARRIS SAFETY CO., 39 E. 20th.

(See adv. on preceding page)

Hayward, S. F. & Co. ("Babcock" Patrol,

Champion, Liquid Seal; also Hand

Grenades), 20 Warren

International Sprinkler Co., 43 Wall

Johns, H. W.—Manville Co. ("Manville" Dry

Powder), 100 William

LITTLE GIANT MFG. CO. ("Little

Giant"), 88 Wall. (See adv. index, end of

book)

McIver, L. B. & Co., 49 Front

Manufacturers' Automatic Sprinkler Co., 35

Nassau

Metropolitan Fire Extinguisher Co., 1133-

B'way

Minimax Co. (Chemical), 1165 B'way

Phoenix Fire Appliance Co., 34 W 26th

Pope Mfg. Co. ("Kilfyre" Dry Powder), 1733

B'way

Rapid Safety Fire Extinguisher Co. of

Y., 135 Front

Rex Fire Extinguisher Co., 74 Cortland

Rodriguez, August, 91 Chambers

Rowe, A. C. ("Knight"), 280 B'way

When writing to firms whose
names appear in this book
please mention

HENDRICKS'
COMMERCIAL REGISTER.



Safety Fire Extinguisher Co., 29 W 42d
 Salmon, H. H. & Co., 82 Wall
 Underwriters' Fire Extinguisher Mfg. Co.
 (hand), 147 W 23d
 U. S. Fire Ext'r Mfg. Co., 228 W 23d
 Vogel, Henry G. Co., 3 Mercer
 Walworth Mfg. Co., 15 Park Row
 Woodhouse Mfg. Co., 50 W B'way
 ROCHESTER—Home Chemical Co., 107 Adams
 UTICA—Childs, O. J. Co. (Hand, etc.)

HARRIS SAFETY CO., 41 Stenben.
 (See adv. index, end of book)

OHIO.

AKRON—Nlagara Fire Extinguisher Co.
 CINCINNATI—Cincinnati Tin & Japan Fire
 Extinguisher Co., Sycamore & Canal
 Eagle Tool Co., Blue Rock & Turrill
 General Fire Extinguisher Co. (Automatic)
 Thompson, Walter M. & Co., 835 W 5th
 CLEVELAND—General Fire Extinguisher Co.
 (Automatic)

COLUMBUS—Seagrave Co.
 YOUNGSTOWN—**HARRIS SAFETY CO.**
 (See adv. index, end of book)

PENNSYLVANIA.

CARBONDALE—Carbondale Chemical Co.
 PHILADELPHIA—American Chemical Fire Pat.
 Co., 14 N 4th
 Boyd, Jas. & Bro. ("Boyd" Champion), 14 N
 Clay, Jno. H., 1320 Ridge av
 General Fire Extinguisher Co. (Automatic)
HARRIS SAFETY CO., 3323 Park
 av. (See adv. index, end of book)
 International Sprinkler Co., 517 Arch
 Myers, Wm. R., 39 Strawberry
 National Inspection Co., 420 Sansom
 Trainer & Co., 405 Walnut
 Underwriters' Fire Ext'r's, Phila. Bourse
 U. S. Fire Extinguisher Co., 333 N 6th
 United States Inspection Co., 545 N 8th
 Yantacaw Mfg. Co.

PITTSBURG—Johns, H. W.-Manville Co.
 ("Manville" Dry Powder), 951 Liberty
 McKenna Bros. Brass Co.

YORK—Spangler Mfg. Co. ("Spangler")

RHODE ISLAND.

PROVIDENCE—General Fire Extinguisher Co.,
 (Automatic)

WISCONSIN.

MILWAUKEE—Badger Chemical Mfg. Co.
 ("Mitchell")
 Johns, H. W.-Manville Co. ("Manville" Dry
 Powder), 225 Clybourn
WISCONSIN IRON & WIRE WORKS,
 190 E Water. (See adv. index, end of book)

*Fire Extinguishers (Little Giant)

LITTLE GIANT MFG. CO., 88 Wall,
 New York. (See adv. index, end of book)

Fire Extinguishers (Steam)

Edna Smelting & Refining Co. ("Porteous" for
 Locomotives & Engines), 525 Reading rd,
 Cincinnati, O., & Monadnock blk, Chicago.

Fire Extinguishers & Disinfecting Apparatus

Clayton Fire Extinguisher & Disinfecting Co.
 ("Clayton" Gas for Ships, etc.), 17 Battery
 pl, New York

*Fire Floors & Partitions

FLEMING & CO., 123 Liberty, New
 York. (See adv. index, end of book)

Fire Gilt & Fire Enameling

Gorham Co., Providence, R. I.
JACKSON, WM. H. COMPANY, 29 E
 17th (Union sq), New York. (See adv. in-
 dex, end of book)

Fire Hose Mfrs.

(See Hose Mfrs., Fire)

Fire Hose Reels (Swinging)

(See Reels & Racks, Fire Hose)

Fire Hose Shut-off

Rowell, G. D. & Son ("Samson" Automatic),
 Appleton, Wis.

*Fire Mortar & Kaolin

MAURER, HENRY & SON, 420 E
 23d, New York; Penna bldg, Phila., Pa.
 Works, Maurer, N. J. (See adv., front in-
 side cover)

Fire-Place Furnishings Mfrs.

Aldrich Mfg. Co. (Brass), Buffalo, N. Y.
 Blacklock Foundry (Andirons, etc.), South
 Pittsburg, Tenn.

Boston Brass Andiron Co. (Andirons, Fire Sets
 & Fenders), 104 Utica, Boston, Mass.

BRADLEY & HUBBARD MFG. CO.
 (Andirons, Fenders, Fire Sets, etc.), Meri-
 den, Conn. (See adv. index, end of book)

Bridgeford & Co. (Fancy Grates & Furnishings),
 Louisville, Ky.

Cahill Iron Works (Plated Grates, etc.), Chat-
 tanooga, Tenn.

Carr, Jas. W. (Grates & Fenders), 319 W Clay,
 Richmond, Va.

Chattanooga Implement & Mfg. Co. (Grates,
 all kinds), East Chattanooga, Tenn.

Colonial Fire Place Co., 2534 W 12th, Chicago,
 Ill.

Dighton Furnace Co. (Grates, & Irons, etc.),
 Taunton, Mass.

Elm City Brass & Rivet Co. (Brass), Plainville,
 Conn.

Eureka Foundry Co. (Brass.), 1110 Richmond,
 Cincinnati, O.

Fischer Leaf Co., 1438 High, Louisville, Ky.

Gaumer, John L. Co. (Wrought Iron), 22d &
 Wood, Phila., Pa.

Graf, Frank H. (Brass, Bronze & Black Iron),
 322 7th av, N. Y.

Jackson, Edwin A. & Bro., 50 Beekman, N. Y.

JACKSON, WM. H. COMPANY (Fire
 Screens, Fenders, Fire Sets, etc., Brass &
 Iron), 29 E 17th (Union sq), New York.

(See adv. index, end of book)
 Jackson's Mantel & Grate Works, 246 Front,
 New York

Janusch, F. G. (est. of) (Brass, etc.), 750 E
 134th, New York

Judd, H. L. Co. (Fenders, Andirons, etc.), 87
 Chambers, New York

Knott, Harker & Co., Beaver Falls, Pa.

Lloyd Mfg. Co. (Fire Screens & Spark Guards),
 Minneapolis, Minn.

McKenney & Waterbury, 181 Franklin, Boston,
 Mass.

Manhattan Brass Co. (Brass), 334 E 28th, N. Y.

Megquier & Jones Co. (Brass), Portland, Me.

Murdock-Shaw Co. (Brass), Boston, Mass.

National Novelty Corporation (Coal Claws,
 Fire Irons, Fire Sets, Pokers, Fire Iron
 Stands, etc.), 826 B'way, New York

Peck, Stow & Wilcox Co. (Brass, etc.) South
 ington, Conn.

Pittsburg Stove & Range Co. (Columbia & Peer
 less Grates, etc.), Pittsburg, Pa.

Rathbone & Panigot. (Open Fire Places
 Direct-Draft & Gas Grates), Grand Rapids,
 Mich.

Rostand Mfg. Co. (Full Line), New Haven,
 Conn.

Sharpless & Watts, 15th & Walnut, Phila., Pa.

Spinner, Wm. Heater Co. (Steel Mantels for
 Gas & Brass Fenders, etc.), Warren, Pa.

Troy Nickel Works (Jno. E. Gaitley, prop'r)
 ("Alaska," Nickel, Antique Bronze, etc.),
 Albany, N. Y.

Waterbury Brass Goods Corporation (Brass),
 Waterbury, Conn.

WRIGHT WIRE CO. (Ornamental
 Wire Fenders & Spark Guards), Worcester,
 Mass. (See adv. index & branch offices,
 end of book)

*Fire-Proof Architectural Interiors

FULLERTON CO., 5 & 7 E. 42d, New
 York

Fire-Proof Building Materials

(See classifications following; also Concrete
 Steel Construction, Re-inforced)

Fire-Proof Constructors

A. B. Fireproofing Co., Schiller bldg, Chicago,
 Ill.

Akron Fireproofing Construction Co., Akron, O.

American Fireproofing & Cement Construction
 Co., 1135 B'way, New York City

Atlanta Fireproofing Co., Atlanta, Ga.

Atlas Fire-Proofing Co., 1 Madison av, New York

Bruner, P. M. Granitoid Co., 904 Olive, St.
 Louis, Mo.

Chenoweth, Alex. C., 16 Court, Brooklyn, N. Y.

CLINTON WIRE CLOTH CO., Clinton,
 Mass. (See adv. index & branch offices, end
 of book)

Columbian Fire-Proofing Co. ("Floors & Arch-
 es"), Times bldg, Pittsburg, Pa.

Denver Terra Cotta Lumber Co., 1324 S Tre-
 mont, Denver, Col.

Drehmann Paving Co. (Concrete Floors, etc.),
 2629 Parrish, Phila., Pa.

Duquesne Fire Proofing Co., 421 Wood, Pitts-
 burg, Pa.

Eid, L. Concrete Steel Co., Central av, bet
 Findlay & Liberty, Cincinnati, O.

GENERAL FIRE-PROOFING CO.,
 Youngstown, O., & 156 5th av, New York.

(See adv. index & branch offices, end of book)
 Gollick & Smith, 1133 B'way, New York

Guastavino, R. Co., 949 B'way, New York

INTERNATIONAL FENCE & FIRE-
 Proofing Co. ("International" System), But-
 les av, Columbus, O. (See adv. index, end
 of book)

Kellogg Iron Works, Mutual Life bldg, Buffalo,
 N. Y.

Keystone Fireproofing Co., Office, 16 S Broad,
 Phila., Pa. Works: Chester, Pa.

Krolman, John Fire-Proof Construction Co., 640
 W 131st, New York

McCartney, R. G., 110 W. 34th, New York.

Merrick Construction Co., 1 B'way, New York.

MERRITT & CO., 1024 Ridge Ave.,
 Philadelphia, Pa. (See adv. index, end of
 book)

Metropolitan Fire Proofing Co., 13 Burling slip,
 New York, & Trenton, N. J.

National Concrete Construction Co., 140 W Main,
 Louisville, Ky.

National Concrete Fire Proofing Co., Citizens'
 bldg, Cleveland, O.

NATIONAL FIRE PROOFING CO.,
 Fulton bldg Pittsburg, Pa. (See adv.
 index & branch offices, end of book)

Newton Engineering Co. ("Kahn" System),
 Hathaway bldg, Milwaukee, Wis.

Norman Fireproof Construction Co., 412 E
 125th, New York

Paige, Tom, Cuyahoga bldg, Cleveland, O.

ROEBLING CONSTRUCTION CO., Ful-
 ler bldg, B'way & 23d, New York. (See
 adv. on following page)

Sanitary Fire Proofing & Contracting Co., 503
 E 80th st, N. Y. City

SCHRATWIESER FIRE-PROOF CON-
 struction Co., 426 3d av, Brooklyn, N. Y.

(See adv. index, end of book)
 Standard Concrete Steel Co., 100 B'way, New
 York

Supplee Engineering Co. ("Kahn" System),
 Erie, Pa.

Trussed Concrete Steel Co. ("Kahn" System),
 Detroit, Mich.

Vulcanite Paving Co. ("Vulcanite" System),
 Land Title bldg, Phila., Pa.

Wight, W. N. & Co., 160 5th, New York

Fire-Proof Floors (Asbestolith)

Asbestolith Mfg. Co., 156 5th av, New York

Fire-Proof Floors (Bromley's Patent)

Vulcanite Paving Co. (Bromley's Patent),
 Fidelity bldg, Phila., Pa.

Fire-Proof Floors & Partitions

A. B. Fireproofing Co., Schiller bldg, Chicago,
 Ill.

American Concrete Steel Co. (Concrete Steel),
 Union bldg, Newark, N. J.

American Fire Proofing & Cement Construc-
 tion Co., 1135 B'way, New York City

Bailey, Thos., 501 W 151st, New York

BROWN HOISTING MACHINERY CO.
("Ferrolinclave"), 1345 St. Clair, Cleveland,
O., & 26 Cortlandt, New York. (See adv.
Index, end of book)

Buffalo Expanded Metal Co., D. S. Morgan
bldg, Buffalo, N. Y.

Central Expanded Metal Co., 541 Wood, Pitts-
burg, Pa.

Chenoweth, Alex. C., 16 Court, Brooklyn, N. Y.

CLINTON WIRE CLOTH CO., Clinton,
Mass. (See adv. index, & branch offices, end
of book)

Doehring Fire-Proof Construction Co., 1123
B'way, New York

Eastern Expanded Metal Co., 101 Tremont,
Boston, Mass.

EHRET MAGNESIA MFG. CO., Land
Title bldg, Philadelphia, Pa. (See adv. in-
dex & branch offices, end of book)

Expanded Metal Engineering Co., 225 5th av,
New York

Expanded Metal Fireproofing Co. of Pittsburgh,
541 Wood, Pittsburgh, Pa.

Detroit Fireproofing Tile Co. ("Gypsite"), 250
Beecher av, Detroit, Mich.

FLEMING & CO., 123 Liberty, N. Y.
(See adv. index, end of book)

Gollick & Smith, 1133 B'way, New York City

HAYES, GEO. CO., 71 8th av, New
York. (See adv. index, end of book)

IMPERIAL EXPANDED METAL CO.,
Room 707 265 La Salle, Chicago, Ill. (See
adv. index, end of book)

INTERNATIONAL FENCE & FIRE-
Proofing Co. ("International" System), But-
tles av, Columbus, O. (See adv. index,
end of book)

Lasar Letzlg Mfg. Co., 1313 N 16th, St. Louis,
Mo.

MAURER, HENRY & SON (The
"Phoenix"), 420 E 23d, New York; Penna
bldg, Philadelphia, Pa. Works, Maurer,
N. J. (See adv. inside front cover)

MERRITT & CO. (Floors & Parti-
tions), 1024 Ridge av, Philadelphia, Pa.
(See adv. index, end of book)

Metropolitan Fire-Proofing Co., 13 Burling slip,
New York, & Trenton, N. J.

MICHIGAN WIRE CLOTH CO., 500
Howard, Detroit, Mich. (See adv. index,
end of book)

National Concrete Fire-Proofing Co., New Eng-
land bldg, Cleveland, O.

Northwestern Expanded Metal Co., Old Colony
bldg, Chicago, Ill.

ROEBLING CONSTRUCTION CO., Full-
ler bldg, B'way & 23d, New York. (See
adv. below; branch offices, end of book)

St. Louis Expanded Metal & Fireproofing Co.,
Century bldg, St. Louis, Mo.

Sanitary Fire Proofing & Contracting Co. ("Ger-
aerdt's" Patent Fire Proof Blocks), 503 E.
80th, N. Y. City

SCHRATWIESER FIRE-PROOF CON-
struction Co., 426 3d av, Brooklyn, N. Y.
(See adv. index, end of book)

SMITH, F. P. WIRE & IRON WORKS,
100 Lake, Chicago, Ill. (See adv. index,
end of book)

Southern Expanded Metal Co., Colorado bldg,
Washington, D. C.

Standard Concrete Steel Co., 100 B'way, New
York

Voss, Fredk. (Wire Lath), 621 Austin av, Chi-
cago, Ill.

Vulcanite Paving Co., Land Title bldg, Phila.,
Pa.

Western Expanded Metal & Fireproofing Co.,
San Francisco, Cal.

White Fire Proof Construction Co., 162 W. 27th,
New York

Wight-Easton-Townsend Co., 554 W 45th, New
York

*Fire-Proof Floors & Partitions (Ferrolinclave)

A. B. Fireproofing Co., Schiller bldg, Chicago,
Ill.

BROWN HOISTING MACHINERY CO.,
1345 St. Clair, Cleveland, O., & 26 Cort-
landt, New York. (See adv. index & branch
offices, end of book)

Fire-Proof Hollow Tile

A. B. Fireproofing Co., Schiller bldg, Chicago,
Ill.

American Clay Products Co., Chamber of Com-
merce bldg, Chicago, Ill.

Clark, N. & Sons, 17 Spear, San Francisco, Cal.

Denny-Renton Clay & Coal Co., Seattle, Wash.

Denver Terra Cotta Lumber Co., 1324 S Tre-
mont, Denver, Col.

Dickey, W. S. Clay Mfg. Co., Kansas City, Mo.

Duquesne Fireproofing Co., 421 Wood, Pitts-
burg, Pa.

Federal Clay Mfg. Co., 23d & B'way, New York

Federal Fireproofing Co., 204 Dearborn, Chicago,
Ill.

Gladding, McBean & Co., Rialto bldg, San
Francisco, Cal. Works, Lincoln, Cal.

Haydenville Co., Haydenville, O.

Illinois Terra Cotta Lumber Co., The Rookery,
Chicago

Laclede Fire Brick Mfg. Co., Manchester &
Sulphur av s, St. Louis, Mo.

Little Falls Fire Clay Co., Little Falls, Wash.

MAURER, HENRY & SON, 420 E 23d,
New York; Penna bldg, Philadelphia, Pa.

Works, Maurer, N. J. (See adv. front in-
side cover)

NATIONAL FIRE-PROOFING CO.,
Pittsburg, Pa. (See adv. index & branch of-
fices, end of book)

Onondaga Vitrified Brick Co., Syracuse, N. Y.

Orchard Knob Clay Works Co., Ironton, O.

Parker-Russell Mining & Mfg. Co., 417 Pine,
St. Louis, Mo.

Penna. Fireproofing Co., St. Mary's, Pa.

Richmond Clay Products Co., Reading, Pa.

Rochester Brick & Tile Mfg. Co., Powers blk,
Rochester, N. Y.

Stevens' H. Sons Co., Macon, Ga.

Troy Fireproofing Co., Troy, N. Y.

Whiteacre Fireproofing Co., Waynesburg, O.

*Fire-Proof Plaster Boards

(See also Plaster Boards, Slabs, etc.)

EHRET MAGNESIA MFG. CO., Land
Title bldg, Philadelphia, Pa. (See adv. index
& branch offices, end of book)

*Fire-Proof Porches

TAYLOR & DEAN, 205 Market, Pitts-
burg, Pa. (See adv. index, end of book)

Fire-Proof Porous Brick & Tile Mfrs.

(See Fire-Proofing, Porous Terra Cotta)

Fire-Proof Roofs, Ceilings & Walls ("Uralite")

Sedgwick-Flower Co., 1133 B'way, New York

Fire-Proof Windows

(See Window Frame & Sash, Metallic)

*Fire-Proof Windows (Auto- matic)

McFARLAND, J. C. & CO., 27th &
5th av, Chicago, Ill., & 235 B'way, New
York. (See adv. index, end of book)

VOIGTMANN & CO., 42-54 E Erie,
Chicago, Ill., & 427 W 13th & 430 W 14th,
New York. (See adv. index, end of book)

Fire-Proof Wood Work

(See Fire-Proofing of Wood)

*Fire-Proofing ("Bostwick" System)

BOSTWICK STEEL LATH CO., Niles,
O. (See adv. index, end of book)

*Fire-Proofing ("Clinton" System)

CLINTON WIRE CLOTH CO., Clinton,
Mass. (See adv. index & branch offices, end
of book)

Fire-Proofing Elevator & Dumb Waiter Shafts

(See Fire-Proof Floors & Partitions)

Fire-Proofing (Expanded Metal.)

(See Lath, Expanded Metal)

*Fire-Proofing (Ferrolinclave Steel Concrete)

BROWN HOISTING MACHINERY CO.,
Cleveland, O., & 26 Cortlandt, New York.
(See adv. index, end of book)

*Fire-Proofing ("Hayes" System)

HAYES, GEO. CO., 71 8th av, New
York. (See adv. index, end of book)

*Fire-Proofing ("Imperial" System)

IMPERIAL EXPANDED METAL CO.,
Room 707 265 La Salle, Chicago, Ill. (See
adv. index, end of book)

*Fire-Proofing ("International" System)

INTERNATIONAL FENCE & FIRE-
Proofing Co., Buttes av, Columbus, O. (See
adv. index, end of book)

Fire-Proofing ("Keystone" System)

Keystone Fireproofing Co., Office, 16 S Broad,
Phila., Pa. Works: Chester, Pa.

The Roebling System

FIRE-PROOFING AND METAL LATH

SEND FOR NEW ILLUSTRATED CATALOGUE

THE ROEBLING CONSTRUCTION CO.

—MAIN OFFICE:—

Fuller Bldg., B'way & 23d St. NEW YORK

BOSTON

PHILADELPHIA

BUFFALO

CHI CAGO

SAN FRANCISCO

NATIONAL FIRE PROOFING COMPANY

MANUFACTURERS OF

**Terra Cotta Hollow Tile Fireproof-
ing, Clay Conduits and all Kinds
of Hollow Building Tile,**

**Engineers and Contractors for the Fireproofing of Buildings
Also Manufacturers Sewer Pipe.**

ANNUAL CAPACITY, 1,600,000 TONS

Factories Located Near All the Large Cities

We have fireproofed a large portion of America's
largest modern buildings. ❁ ❁ Our experience
and ideas are on call to any Architect or Builder.

**FOR DATA AND DETAILED INFORMATION, WRITE US AT EITHER
OF THE FOLLOWING ADDRESSES:**

NEW YORK, N. Y.—Fuller Building.
BOSTON, MASS.—840 Old South Building.
PHILADELPHIA, PA.—Land Title Building.
PITTSBURG, PA.—Fulton Building.
CLEVELAND, O.—Cuyahoga Building.
CINCINNATI, O.—Union Trust Building.

CHICAGO, ILL.—Commercial Nat. Bank Building
WASHINGTON, D. C.—Colorado Building.
MINNEAPOLIS, MINN.—Lumber Exchange.
LOS ANGELES, CAL.—511 Union Trust Bldg.
ST. LOUIS, MO.—Victoria Building.
LONDON—27 Chancery Lane.

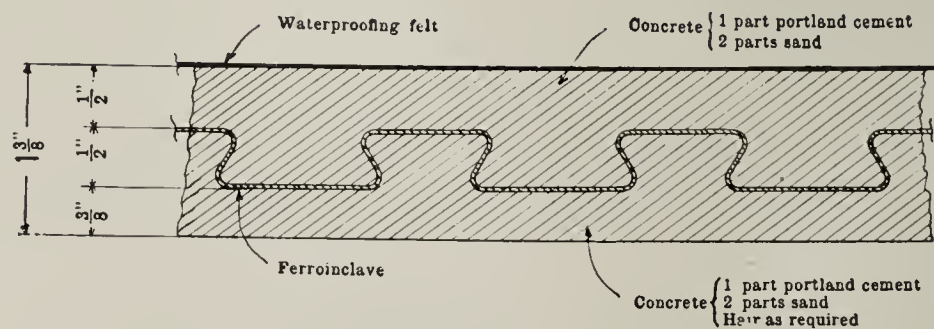


SYSTEM OF REINFORCED CONCRETE

Consists of Corrugated Steel Sheets Coated with
Portland Cement Concrete

ROOFS

Light or Heavy Floors and Partitions



The Brown Hoisting Machinery Co.

CLEVELAND, O.

NEW YORK

PITTSBURG

*Fire-Proofing ("Kuhne's" System)

TRUSS METAL LATH CO., 147 4th
av. New York. (See adv. index, end of book)

*Fire-Proofing (Multiplex Steel Flooring)

BERGER MFG. CO. Main Office &
Works, Canton, O. (See adv. index & branch
offices, end of book)

Fire-Proofing of Wood

American Wood Fire-Proofing Co., 29 B'way,
New York
Electric Fireproofing Co., 19th & East River,
New York
Fireproofing Mfg. Co., 128 B'way, New York

Fire-Proofing (Porous Terra Cotta)

Denny-Renton Clay & Coal Co., Seattle, Wash.
Denver Terra Cotta Lumber Co., 1324 S Tre-
mont, Denver, Colo.
Federal Fireproofing Co., 204 Dearborn, Chicago,
Ill.
Gladding, McBean & Co., Rialto bldg, San
Francisco, Cal. Works, Lincoln, Cal.
Illinois Terra Cotta Lumber Co., The Rookery,
Chicago, Ill.
Los Angeles Pressed Brick & Terra Cotta Co.,
Los Angeles, Cal.
MAURER, HENRY & SON, 420 E 23d
New York, & Penna bldg, Philadelphia, Pa.
Works, Maurer, N. J. (See adv. front in-
side cover)
NATIONAL FIRE-PROOFING CO.,
Fulton bldg, Pittsburg, Pa. (See adv. in-
dex & branch offices, end of book)
Parker & Russell Mining & Mfg. Co., St. Louis,
Mo.
Penna. Fireproofing Co., St. Mary's, Pa.
Whiteacre Fireproofing Co., Waynesburg, Pa.

*Fire-Proofing ("Roebbling" System)

ROEBLING CONSTRUCTION CO., Ful-
ler bldg, B'way & 23d, New York. (See
adv. preceding page; branch offices, end of
book)

Fire-Proofing (Salamander)

American Fireproofing Co., 166 Devonshire, Bos-
ton, Mass.

*Fire-Proofing ("Schrattwieser" System)

SCHRATTWIESER FIRE-PROOF CON-
struction Co., 426 3d av, Brooklyn, N. Y.
(See adv. index, end of book)

Fire-Proofing ("Scorch-Not" System)

Lombard Fire-Proofing Co., 166 Devonshire,
Boston, Mass.

Fire Sand

Berry, Jas. E., Woodbury, N. J.
Bloomfield Clay Co., Metuchen, N. J.
Garden City Sand Co. (Dealers), Security bldg,
Chicago, Ill.
Gautier J. H., & Co., Jersey City, N. J.
Harblson-Walker Refractories Co., Farmers'
Bk. bldg, Pittsburg, Pa., & 1133 B'way,
N Y City
MAURER, HENRY & SON, 420 E 23d
New York, & Penna bldg, Phila., Pa.
Works, Maurer, N. J. (See adv. front inside
cover)
Northport Clay & Fire Sand Co., Northport, L.
I., N. Y.
Peekskill Fire Brick Works, Peekskill, N. Y.

Presbrey Stove Lining Co., Taunton, Mass.
Shepard, J. J., 35 River, Cleveland, O.
Tygart Fire Brick Co., Fullerton, Ky.
Utica Fire Sand Co., Utica, N. Y.
Valentine, M. D. & Bro. Co., Woodbridge, N. J.

*Fire Screens & Backs

JACKSON, WM. H. COMPANY, 29 E
17th (Union sq), New York. (See adv. in-
dex, end of book)

Fire Sets (Brass & Iron)

(See Fire Place Furnishings, Mfrs.)

Fire Sprinklers

(See Sprinklers, Automatic Fire)

Fish Line Mfrs.

Ashaway Line & Twine Mfg. Co. (Silk, Linen
& Cotton), Ashaway, R. I.
Mansfield, G. H. & Co., Canton, Mass.
Paton, Wm. (Ltd.), No. Grafton, Mass.
Pawtucket Braided Line Co., Pawtucket, R. I.

Fish Nets & Seines

American Net & Twine Co., Boston, Mass.
Fowler Net & Twine Co., 107 S. 2d, Phila., Pa.
Gloucester Net & Twine Co., Gloucester, Mass.
Hodgkins, Geo. W., Gloucester, Mass.

Fish Plate Springs

(See Lock Nuts)

Fittings (Acid Metal)

Eastwood Wire Mfg. Co., Belleville, N. J.
PITTSBURG VALVE, FOUNDRY &
Construction Co., 26th & A. V. Ry., Pitts-
burg, Pa. See adv. index, end of book)

Fittings (Air Brake)

Crane Co. (Est. 1855), 519 S. Canal, Chicago,
Ill. (See adv. index & branch offices, end of
book)
Dayton Malleable Iron Co. (Lever Guides, etc.),
Dayton, O.
Greager Mfg. Co. (For Water & Gas Works), 22d
& Wash'n av, Phila., Pa.
Litchfield Foundry & Machine Co., Litchfield,
Ill.
New Jersey Car Spring & Rubber Co. (Washers,
etc.), Jersey City, N. J.
New York Air Brake Co. (Equipments), 36
B'way, N. Y., & Fisher bldg., Chicago
Pittsburg Malleable Iron Co., Pittsburg, Pa.

Fittings (Ammonia)

AMERICAN BRAKE SHOE & FOUN-
dry Co., Mahwah, N. J.; 170 B'way, New
York, & Western Union bldg, Chicago, Ill.
(See adv. index & branch offices, end of book)

ARCTIC ICE MACHINE CO., Canton,
Ohio.

Belfield, H. & Co., 435 N Broad, Phila., Pa.
Braman, Dow & Co., 239 Causeway, Boston,
Mass.
Crane Co. (Est. 1855), 519 S. Canal, Chicago, Ill.
(See adv. index & branch offices, end of book)
Creamery Package Mfg. Co., 182 E. Kenzie,
Chicago, Ill.

Eastwood Wire Mfg. Co., Belleville, N. J.
Great Lakes Engineering Works (Semi-Steel),
Detroit, Mich.

Riverside Iron Works Co., Kansas City, Kan.
Tight Joint Co. ("Folly's" Patent), 306 E 47th,
New York

Triumph Ice Machine Co. (Steel), 610 Bay-
miller, Cincinnati, O.

VILTER MFG. CO., 1046 Clinton,
Milwaukee, Wis. (See adv. index, end of
book)
York Mfg. Co. (Ltd.), York, Pa.
Wolf, Fred W. Co., 141 Rees, Chicago, Ill.

Fittings (Automobile)

(See Automobile Parts & Fittings)

Fittings (Awning Frame)

Pancoast, Henry B. & Co., 243 S. 3d, Phila., Pa.

Fittings (Brass Pipe)

Barrett Mfg. Co., Jas., Boston, Mass.
Belfield, H. & Co., 435 N. Broad, Phila., Pa.
Belknap Mfg. Co., Bridgeport, Conn.
Best Mfg. Co., Pittsburg, Pa.
Buckeye Iron & Brass Works, Dayton, O.
Central Brass Works, Cincinnati, O.
Chambers & Ainslee, Newark, N. J.
Crane Co. (Est. 1855), 519 S. Canal, Chicago,
Ill. (See adv. index & branch offices, end of
book)

Dalton-Ingersoll Mfg. Co., Boston, Mass.
Darling Pump & Mfg. Co., Williamsport, Pa.
Detroit Lubricator Co., Detroit, Mich.
Detroit Sanitary Supply Co., Detroit, Mich.
Eaton, Cole & Burnham Co. (Elbows, Tees &
Crosses, etc.), Bridgeport, Conn.

Eastwood Wire Mfg. Co., Belleville, N. J.
Edwardsville Brass Co., Edwardsville, Ill.
Fewless-Leen Brass & Iron Co., Cincinnati, O.
Forest City Brass Works, Cleveland, O.
General Fire Extinguisher Co., Providence, R. I.
Hamlin & Emery Brass Co., Boston, Mass.
Harris, Arthur & Co., 44 N. Curtis, Chicago, Ill.
Haydenville Co., Haydenville, Mass.
Hoffman & Billings Mfg. Co., Milwaukee, Wis.
Humphreys Mfg. Co., Mansfield, O.
Ideal Mfg. Co., 546 Franklin, Detroit, Mich.
Ideal Mfg. Co., Detroit, Mich.
Illinois Malleable Iron Co., 537 Deversey blvd.,
Chicago, Ill.

Imperial Brass Mfg. Co., Chicago, Ill.
Jarecki Mfg. Co., Erie, Pa.
Kelly & Jones Co., Greensburg, Pa.
Kinscy & Mahler Co., Peoria, Ill.
Leslie Co. (Inc.) (High Pressure Steam), Lynd-
hurst, N. J.

Lunkenheimer Co., Cincinnati, O.
McCambridge & Co., Philadelphia, Pa.
McDonald & Morrison Mfg. Co., Dubuque, Iowa.
McNab & Harlin Mfg. Co., 56 John, New York.
Mansfield Mfg. Co., Pittsburg, Pa.
Merris, Hugh, Cincinnati, O.
Milwaukee Brass Mfg. Co., Milwaukee, Wis.
Mott, J. L. Iron Works, 5th ave. & 17th st.,
New York

Mueller, H. Mfg. Co., Decatur, Ill.
Mullaney's, Jas. Sons, 141 E. 25th, New York.
New Britain Brass Co., New Britain, Conn.
PITTSBURG VALVE, FOUNDRY &
Const. Co., 26th & A. V. Ry., Pittsburg, Pa.
(See adv. index, end of book)

Plenger & Henger Mfg. Co., St. Louis, Mo.
Powell, Wm., Cincinnati, O.
Powhatan Brass & Iron Works, Charlestown, W.
Va.
Queen City Brass & Iron Works, Cincinnati, O.
Register's Sons Co., Baltimore, Md.
Rundle-Spence Mfg. Co., Milwaukee, Wis.
Speakman Supply & Pipe Co., Wilmington, Del.
Standard Sanitary Mfg. Co., Pittsburg, Pa.
Stebbins Mfg. Co., Springfield, Mass.
Thomas Brass & Iron Co., Waukegan, Ill.
Walworth Mfg. Co., 128 Federal, Boston, Mass.
Wolverine Brass Works, Grand Rapids, Mich.
Western Tube Co., Kewanee, Ill.

Fittings (Brass Pipe Railing)

Amos & Co., Detroit, Mich.
Belfield & Co., 435 N. Broad, Phila., Pa.
Crane & Co., Chicago, Ill.
Devlin & Co., Philadelphia, Pa.
Eaton, Cole & Burnham, Bridgeport, Conn.
Eastwood Wire Mfg. Co., Belleville, N. J.
Jarecki Mfg. Co., Erie, Pa.
Jenkins Mfg. Co., Bloomfield, N. J.
Pittsburg Brass Mfg. Co., Penn av & 32d, Pitts-
burg, Pa.

UNION EQUIPMENT AND BRONZE CO.
(also Bronze), 520 W. 36th, New York. (See
adv. outside stencil)

Fittings (Bronze)

Eastwood Wire Mfg. Co. (Also Brass), Belle-
ville, N. J.

HENRY-BONNARD BRONZE CO.,
Sales Office, 5 E 42d, New York. Works:
Mount Vernon, N. Y. (See adv. index, end
of book)

PITTSBURG VALVE, FOUNDRY &
Construction Co., 26th & A. V. Ry., Pitts-
burg, Pa. (See adv. index, end of book)

*Fittings (Car Heater)

CHICAGO CAR HEATING CO., Rail-
way Exchange bldg., Chicago, Ill., & 170
B'way, New York. (See adv. index, end of
book)

Crane Co. (Est. 1855), 519 S. Canal, Chicago,
Ill. (See adv. index & branch offices, end of
book)
Western Tube Co., Kewanee, Ill.

***Fittings (Cast Iron Pipe)**

Crane Co. (Est. 1855), 519 S. Canal, Chicago, Ill. (See adv. index & branch offices, end of book)

OIL WELL SUPPLY CO., 215 Water, Pittsburgh, Pa. (See adv. index, end of book)

PITTSBURG VALVE, FOUNDRY & CONSTRUCTION CO., 26th & A. V. Ry., Pittsburgh, Pa. (See adv. index, end of book)

***Fittings (Cast Iron, for Gas & Water Mains)**

Kerr-Murray Mfg. Co., Fort Wayne, Ind.

OIL WELL SUPPLY CO., 215 Water, Pittsburgh, Pa. (See adv. index, end of book)

YAGLE FOUNDRY & MACHINE CO. (Ltd.), 400 32d, Pittsburgh, Pa. (See adv. index, end of book)

Fittings (Coach Vestibule)

Adams & Westlake, Ontario c N Franklin, Chicago, Ill.

Fittings (Cross Over)

Fee & Mason, 81 Beckman, New York.
Flagg, Stanley G. & Co. (Malleable Iron), 19th & Pa. av., Phila., Pa., & 222 B'way, New York.
Western Tube Co., Kewanee, Ill.

Fittings (Drainage)

Clow, Jas. B. & Sons, 344 Franklin, Chicago, Ill.

Crane Co. (Est. 1855), 519 S. Canal, Chicago, Ill. (See adv. index & branch offices, end of book)

Glenn Mfg. Co., St. Charles, Ill. (See adv. index, end of book)

McNab & Harlin Mfg. Co. (Brass & Iron, Black & Galvanized), 56 John, New York, & Paterson, N. J.

Wade Iron Sanitary Mfg. Co. ("Wade"), 52 Dearborn, Chicago, Ill.

Fittings (Electrical)

Electro-Dynamic Co. (Water Tight), 5 Nassau, New York

Martin El. Co. (Watertight Marine for Electrical Work), 90 Verona, Brooklyn, N. Y.

Union Iron Works, San Francisco, Cal.

WORCESTER PRESSED STEEL CO. (Successors to Worcester Ferrule & Mfg. Co.) (Stamped), Worcester, Mass. (See adv. index, end of book)

***Fittings (Ell)**

LUNKENHEIMER CO. (Brass), General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

Fittings (Flanged)

American District Steam Co., Lockport, N. Y.

American Foundry & Mach. Co., Marietta, Ga.

AMERICAN SPIRAL PIPE WORKS (Forged Steel Pipe Flanges), W. 14th & 48th av., Chicago, Ill. (See adv. index & branch offices, end of book)

Belfield, H. & Co., 435 N. Broad, Phila., Pa.

Best Mfg. Co., 25th & A. V. Ry., Pittsburgh, Pa.

BETHLEHEM FOUNDRY & MACHINE CO., Front, South Bethlehem, Pa., & 149 B'way, New York. (See adv. index, end of book)

Caldwell, E. R. & Co. (For Steam), Bradford, Pa.

Central Pipe Valve & Const. Co., Alleghany, Pa.

Crane Co. (Est. 1855) (High or Low Pressure), 519 S. Canal, Chicago, Ill. (See adv. index & branch offices, end of book)

Eastwood Wire Mfg. Co. (Bronze & Iron Elbow, Tee, Cross, Nipple & Union, etc.), Belleville, N. J.

General Fire Extinguisher Co. (Cast Iron), Providence, R. I.

Litchfield Foundry & Machine Co., Litchfield, Ill.

McNab & Harlin Mfg. Co. (Standard & Extra Heavy), 56 John, New York, & Paterson, N. J.

Millar, Chas. & Son Co., Utica, N. Y.

New Bedford Boiler & Machine Co., New Bedford, Mass.

OIL WELL SUPPLY CO., 215 Water, Pittsburgh, Pa. (See adv. index, end of book)

PITTSBURG VALVE, FOUNDRY & CONSTRUCTION CO., 26th and A. V. Ry., Pittsburgh, Pa. (See adv. index, end of book)

Swadkins, W. F. (& Screwed, "Eccentric, & Spirals"), 143 Fulton, Chicago, Ill.

Walworth Mfg. Co., 132 Federal, Boston, Mass.

YAGLE FOUNDRY & MACHINE CO. (Ltd.) (Cast Iron for Gas & Water), 32d & A. V. Ry., Pittsburgh, Pa. (See adv. index, end of book)

Fittings (Gas Fixture)

Gleason, E. P. Mfg. Co., 37 Murray, New York

***Fittings (Gas Line)**

OIL WELL SUPPLY CO., 215 Water, Pittsburgh, Pa. (See adv. index, end of book)

PITTSBURG VALVE, FOUNDRY & CONSTRUCTION CO., 26th & A. V. Ry., Pittsburgh, Pa. (See adv. index, end of book)

Fittings (Green House)

Coldwell-Wilcox Co. (Cast Iron), Newburgh, N. Y.

Crane Co. (Est. 1855), 519 S. Canal, Chicago, Ill. (See adv. index & branch offices, end of book)

Glenn Mfg. Co., St. Charles, Ill. (See adv. index, end of book)

***Fittings (High Pressure)**

OIL WELL SUPPLY CO. (Cast Iron), 215 Water, Pittsburgh, Pa. (See adv. index, end of book)

Fittings (Hydraulic)

Birdsboro Steel Foundry & Machine Co. (Cast Steel), Birdsboro, Pa.

Eastwood Wire Mfg. Co. (Bronze & Iron, Elbow, Tee, Cross, Nipple & Union, etc.), Belleville, N. J.

ELMES, CHAS. F., ENGINEERING Works, Fulton & N Sangamon, Chicago, Ill. (See adv. index, end of book)

French Oil Mill Machinery Co., Piqua, O.

McNab & Harlin Mfg. Co., 56 John, New York, & Paterson, N. J.

Newark Iron & Steel Co. (Open Hearth Steel), Newark, O.

OIL WELL SUPPLY CO., 215 Water, Pittsburgh, Pa. (See adv. index, end of book)

PITTSBURG VALVE, FOUNDRY & CONSTRUCTION CO., Pittsburgh, Pa. (See adv. index, end of book)

Tight Joint Co. (Folly's Patent), 306 E 47th, New York

WATSON-STILLMAN CO., 26 Cort- landt, New York. (See adv. index, end of book)

Fittings (Iron Railing)

Belfield, H. E. & Co., 435 N. Broad, Phila., Pa.

Crane Co. (Est. 1855), 519 S. Canal, Chicago, Ill. (See adv. index, and branch offices, end of book)

Devlin & Co., Thomas, Philadelphia, Pa.

Illinois Malleable Iron Co., 537 Deversy, Chicago, Ill.

Jaroeki Mfg. Co., Erie, Pa.

Kelly & Jones Co., Greensburg, Pa.

McNab & Harlan Mfg. Co., 56 John, N. Y.

Pancoast & Co., Phila., Pa.

Western Tube Co., Kewanee, Ill.

Fittings (Lead Lined Pipe)

Lead Lined Iron Pipe Co. (Brass & Iron), Wakefield, Mass.

Fittings (Pipe)

(See also Cast Iron Soil Pipe & Fittings; also Fittings, Various Kinds; also Unions)

ABENDROTH & ROOT MFG. CO. (Cast Iron Flanged), Newburgh, N. Y. (See adv. index & branch offices, end of book)

Aird, Platt Mfg. Co. (Cast Iron), Watervliet, N. Y.

American District Steam Co., Lockport, N. Y.

AMERICAN RADIATOR CO. ("H. O.") Distributors for Steam & Water, General Office, 282 Michigan av., Chicago, Ill. (See adv. index & branch offices, end of book)

Anti-Bursting Pipe Co., Pittsburgh, Pa.

Belfield, H. & Co. (Malleable & Cast Iron), 435 N. Broad, Philadelphia, Pa.

Builders' Iron Foundry (Cast Iron), Providence, R. I.

Carroll Iron Works (Malleable Iron), 779 Carroll av., Chicago, Ill.

Clow, Jas. B., & Sons, 344 Franklin, Chicago, Ill.

Coldwell, Wilcox Co., ("Wilcox") Newburgh, N. Y.

Columbus Brass Co. ("Abbott") Columbus, Ohio.

Crane Co. (Est. 1855). (Malleable & Cast Iron, Screwed or Flanged), 519 S. Canal, Chicago, Ill. (See adv. index & branch offices, end of book)

Darling Pump & Mfg. Co. (Cast Iron), Williamsport, Pa.

Davis, Jno. Co. (Cast Iron), 22d & Halsted, Chicago, Ill.

Devlin, Thos., & Co. (Malleable Iron), 3d & Lehigh av., Philadelphia, Pa.

Eastwood Wire Mfg. Co. (Cast Iron), Belleville, N. J.

Eaton, Cole & Burnham Co. (Malleable & Cast Iron Pipe), Bridgeport, Conn.

Flagg, Stanley G., & Co. ("Keystone") Malleable Iron, 424 N. 19th, Philadelphia, Pa.

Ford & Kendig Co. (Malleable & Cast Iron), 432 Callowhill, Philadelphia, Pa.

Forest City Brass Works (Brass), Cleveland, O.

Fort Pitt Malleable & Grey Iron Co. (Malleable & Cast Iron), Pittsburgh, Pa.

Gille Engine & Machine Co. (Cast Iron), Tonawanda, N. Y.

Glam Organ Pipe & Foundry Co. (Cast Iron), Lynchburg, Va.

Glen Mfg. Co. (Grey Iron), St. Charles, Ill.

Griffing, A. A., Iron Co. (Cast Iron), Jersey City, N. J.

Hoffmann, B., Mfg. Co. (Cast Iron), 257 6th Milwaukee, Wis.

Hoffman-Billings Mfg. Co. (Malleable & Cast Iron), Milwaukee, Wis.

Howe Mfg. Co. ("Crescent") Louisville, Ky.

Illinois Malleable Iron Co. ("Eureka," "Inuco," Malleable & Cast Iron), 30 W. Monroe, Chicago, Ill.

Jarecki Mfg. Co. (Malleable & Cast Iron), Erie, Pa.

Keeler, E., Co. (Cast Iron), Williamsport, Pa.

Kelly & Jones Co. (Malleable & Cast Iron), Pittsburgh, Pa.; Works, Greensburg, Pa.

Kroeschell Bros. Co. (Cast Iron), 55 Erie, Chicago, Ill.

Kuhns Bros., Dayton, O.

Litchfield Foundry & Machine Co. (Cast Iron), Litchfield, Ill.

Lumsden C. Van Stone Co. ("Van Stone") Boston, Mass.

LUNKENHEIMER CO. (Brass), General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

McNab & Harlin Mfg. Co. (Cast Iron), 56 John, New York, & Paterson, N. J.

Malleable Iron Fittings Co. (Malleable Iron), Branford, Conn.

Mott, J. L. Iron Works, 118 5th av., New York

Newbury, J. G., Cossackie, N. Y.

Newbury, Jay H. (Cast Iron), Goshen, N. Y.

OIL WELL SUPPLY CO. (Malleable & Cast Iron), 215 Water, Pittsburgh, Pa. (See adv. index, end of book)

Pancoast, Henry B., & Co. (Malleable Iron), 245 S 3d, Philadelphia, Pa.

PITTSBURG VALVE, FOUNDRY & CONSTRUCTION CO., 26th & A. V. Ry., Pittsburgh, Pa. (See adv. index, end of book)

SIMMONS, JOHN CO. (Cast Iron), 106 Centre, New York. (See adv. index, end of book)

South Park Foundry & Machine Co. (Cast Iron), St. Paul, Minn.

Stockholm Pipe & Fittings Co. (Cast Iron), Birmingham, Ala.

Tamaqua Mfg. Co. (Malleable Iron), Tamaqua, Pa.

Tight Joint Co. ("Folly's" Never Leak Tight Joint), 306 E 47th, New York

Vanderman Plumbing & Heating Co., Willimantic, Conn.

Walworth Mfg. Co. (Malleable & Cast Iron), 132 Federal, Boston, Mass.

Western Tube Co. (Malleable & Cast Iron), Kewanee, Ill.

Fittings (Railing)

(See also Fittings, Brass Railing)

Devlin, Thos., Mfg. Co. (Adjustable, Malleable Iron), Lehigh ave. & 3d, Phila., Pa.

Eastwood Wire Mfg. Co. (Bronze), Belleville, N. J.

Pancoast, Henry B. & Co. (Iron Pipe, Malleable & Cast Iron & Brass), 243 S 2d, Phila., Pa.

Fittings (Railway)

Belfield, H. & Co., 435 N. Broad, Phila., Pa.

Eastwood Wire Mfg. Co. (Bronze), Belleville, N. J.

Flagg, Stanley G. & Co. (Malleable Iron), 19th & Penna av., Phila., Pa.

Western Tube Co. (Brass & Malleable Iron), Kewanee, Ill.

Fittings (Show Window)

(See Window Display Fixtures)

Fittings (Soil Pipe)

(See Cast Iron Soil Pipe & Fittings Mfrs.)

Fittings (Steam Pipe)

(See Fittings, Pipe)

Fittings (Tight Joint)

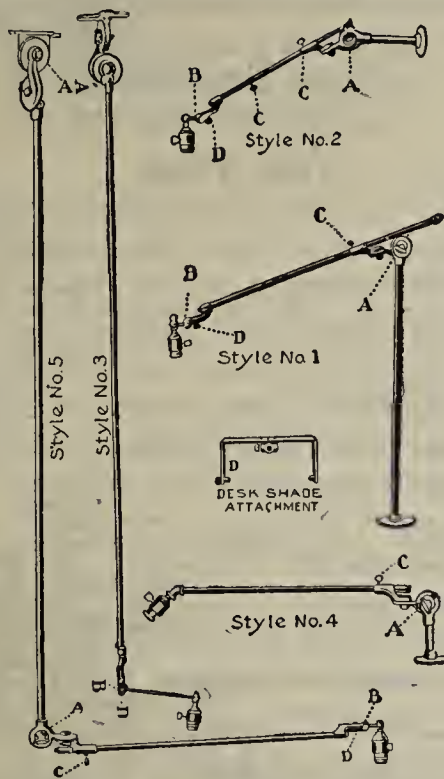
Tight Joint Co. (Folly's, for Steam, Hydraulic, Ammonia, Compressed Air, etc.), 306 E 47th New York

Fittings (Vitreous Enameled Steel)

Enameled Pipe & Engineering Co. (Acid Proof Pipe & Fittings)

Fittings (Wash Tray)Lawler Water Feed & Damper Regulator Co. ("Lawler's"), 473 W B'way, New York
Sanitary Co., 7 Water, Cleveland, O.**Fittings (Y)****LUNKENHEIMER CO.,** Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)**PITTSBURG VALVE, FOUNDRY & CONSTRUCTION CO.,** 26th & A. V. Ry., Pittsburgh, Pa. (See adv. index, end of book)**Fixtures (Bank, Office & Store)**

(Cabinet Wood-Work)

Alexandria Mfg. Co., Alexandria, Minn.
ANDREWS, A. H. CO., Chicago, Ill. (See adv. index, end of book)Bush, Jas. S., 239 B'way, New York
California Woodworking Co., San Francisco, Cal.
Carter, S. C. & S. Co., Keokuk, Ia.
Cleveland Store Fixture Co., Cleveland, O.
Cobb, Geo. W., Jr., 146 Nassau, New York
Cole Mfg. Co., Memphis, Tenn.
Columbia Lumber & Mfg. Co., Columbia, S. C.
Derby Desk Co., 145 Fulton, New York
De Wolf Furniture, Garnett, Kans.
Doten-Dunton Desk Co., Boston, Mass.
Eblrich, H. & Sons., St. Joseph, Mo.
Enterprise Mfg. Co., Tiffin, O.
Fielder & Allen Mfg. Co., Atlanta, Ga.
Fridman Seating Co., New Richmond, O.
Globe-Wernicke Co., Cincinnati, O.
Himmel, M. L. & Son, Baltimore, Md.
Hollrab-Dieckmann Refrigerator Fixture Co., St. Louis, Mo.Johannesen Mfg. Co., Erie, Pa.
Johnson, Albert & Co., Boston, Mass.
Kansas City Furniture & Bedding Manufactory, Kansas City, Mo.Krenz, Wm. & Sons, Chicago, Ill.
McLean, W. B. Mfg. Co., Pittsburgh, Pa.
Macey Co. (Desks, Chairs, etc.), 343 B'way, New York & Grand Rapids, Mich.
Mansfield, Robert & Son, Louisville, Ky.
Marysville Cabinet Co., Marysville, O.
Melchoir Bros. Furniture Co., Chicago, Ill.
Merle & Heancy Mfg. Co., Chicago, Ill.
Michigan Order Work Furniture Co., Grand Rapids, Mich.Moline Furniture Works, Moline, Ill.
Moore Mfg. Co., Springfield, Mo.
Morgan, John & J. S., Charleston, W. Va.
Muskegon Cabinet Co., Muskegon, Mich.
Northwestern Furniture Co., Milwaukee, Wis.
Ohmer's, M. Sons Co., Dayton, O.
Phoenix Furniture Co., Eau Claire, Wis.
Reliance Gauge Column Co. (Seamless & Solderless, etc.), Cleveland, O.Schwarzwaelder, L. A., Chichester, N. Y.
Shaw, A. B. & E. L., East Cambridge, Mass.
Shoemaker, Jos. L. & Co., Philadelphia, Pa.
Sierer, H., Chambersburg, Pa.
Sjostron, John E., Philadelphia, Pa.
Southern Seating & Cabinet Co., Jackson, Tenn.
Stearns Mfg. Co., Los Angeles, Cal.
Toledo Desk & Fixture Co., Toledo, O.
Ward Cabinet Co., Jamestown, N. Y.
Western Paper & Mfg. Co., Dayton, O.
Williams & Hunting Co., Cedar Rapids, Ia.
Winter, M. Lumber Co., Sheboygan, Wis.
Wood, Dickerson & Putnam, Birmingham, Ala.
Yawman & Erbe Mfg. Co., Rochester, N. Y.***Fixtures (Electric Adjustable Wall & Ceiling)****MORSE, FRANK W. ("Morse"),** 116 Bedford, Boston, Mass. (See adv. below)**Morse Adjustable Arm Fixtures**

These Fixtures are made entirely of metal, and to order only, and are intended for Mills, Factories, Shops and Draughting-Rooms. Send for illustrated Price List.

FRANK W. MORSE,
116 Bedford St., Boston, Mass.

Flag Mfrs.American Flag Mfg. Co., Easton, Pa.
Channon, H. Co., 32 Market, Chicago, Ill.
National Flag Co., Cincinnati, O.
United States Flag Co., Cincinnati, O.**Flag Poles (Iron)**Greenlie, Wyatt & Co., 499 Water, N. Y.
MERRITT & CO., 1024 Ridge av., Phila., Pa. (See adv. index, end of book)
Nimmo Fence Co., 324 E 4th, Cincinnati, O.
Stover Mfg. Co., 165 River, Freeport, Ill.***Flag Staffs (Wood)****NOVELTY TURNING CO.,** Norway, Me. (See adv. index, end of book)**Flags (Railway, Signal, Etc.)**American Flag Mfg. Co., Easton, Pa.
CARPENTER, GEO. B. & CO., 202 S Water, Chicago, Ill. (See adv. index, end of book)
Haudlan-Buck Mfg. Co. ("Prahm" & "Lauis" Metallic, Also Bunting), 212 N. 3d, St. Louis, Mo.
Patton, R. J. & Co., Cincinnati, O.**Flanged Flue Holes, Heads or Plates**

(See Boiler Heads, Flanged)

Flanges (Cast & Malleable Iron)American Foundry & Mch. Co., Marietta, Ga.
Belfield, H. & Co., 435 N Broad, Phila., Pa.
Best Mfg. Co., 25th & A. V. Ry., Pittsburgh, Pa.
General Fire Extinguisher Co. (Cast Iron only), Providence, R. I.
OIL WELL SUPPLY CO., 215 Water, Pittsburgh, Pa. (See adv. index, end of book)
Western Tube Co., Kewanee, Ill.**Flanges (Companion)****LUNKENHEIMER CO.,** General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)**Flanges (Floor & Ceiling)**Glenn Mfg. Co. (Tapped), St. Charles, Ill.
Pittsburg Brass Mfg. Co. (Brass Closet Floor), Penn av & 32d, Pittsburgh, Pa.
WORCESTER PRESSED STEEL CO. (Solid & Split), Worcester, Mass. (See adv. index, end of book)***Flanges (Pipe)**

(See also Fittings, Flanged & Fittings, Steam Pipe)

DART, E. M., MFG. CO., Providence, R. I. (See adv. index, end of book)***Flanges (Pipe, Forged Steel)****AMERICAN SPIRAL PIPE WORKS,** W. 14th and 48th ave., Chicago, Ill. (See adv. index & branch offices, end of book)***Flanges (Pressed Steel)****MOSSBERG, FRANK CO.,** Attleboro, Mass. (See adv. index, end of book)**Flanges (Pressed Steel Pipe)**

Glasgow Iron Co., Pottstown, Pa.

Flanges (Roof)Acme Mfg. Co. ("Acme"), Somerville, Mass.
Granton, C. A. (Adjustable), Haverhill, Mass.
Hessler, H. E. ("McGuire" Star "Adjustable"), Syracuse, N. Y.
Success Mfg. Co., Gloucester, Mass.**Flanges (Snow)**

Quincy-Manchester-Sargent Co. ("Q. & C."), Priest, Old Colony bldg, Chicago, Ill., & 114 Liberty, New York

Flanges (Soft, Weldless Steel)**AMERICAN SPIRAL PIPE WORKS,** W. 14th and 48th ave., Chicago, Ill. (See adv. index & branch offices, end of book)
Latrobe Steel Co. (For High Pressure, etc.), Girard bldg, Philadelphia, Pa.**Flanges (Spun Brass)**General Fire Extinguisher Co., Providence, R. I.
Voelkner & Reinke Mfg. Co., 123 W. Woodbridge, Detroit, Mich.**Flanges (Tight Joint)**

(See Fittings, Tight Joint)

Flanges (Water Closet Connection)

Mott, J. L. Iron Works ("Mott" Screw Joint), 118 5th av, New York

Flanges (Welded)

Ball & Wood Co. ("Ballwood," up to 5000 lbs. Pressure), 17 Battery pl, New York, & Elizabeth, N. J.

Flashers (Electric Sign)

(See Sign Flashers, Electric.)

Flashlights

(See Lamps, Pocket Electric)

Flasks (Molders')

Adams Co. (Adams), Dubuque, Iowa
Arcade Mfg. Co. ("Arcade" Snap), Freeport, Ill.
Barnett, Oscar Foundry Co. ("Barnett" Brass Molders & "New Diamond" Snap), Newark, N. J.

Brass Founders' Supply Co. (For Brass Frdrs., Ribbed, etc.), Newark, N. J.
Diamond Clamp & Flask Co., Richmond, Ind.
Middleditch, Benj., Detroit, Mich.

NORTHERN ENGINEERING WORKS, Detroit, Mich. (See adv. index, end of book)

Obermayer, S. Co., 647 Evans, Cincinnati, O. (See adv. index, end of book)

OSBORN MFG. CO., 5401 Hamilton av, N. E., Cleveland, O. (See adv. index, end of book)

Perkins, B. F. & Son, Boutallis, Holyoke, Mass.
Racine Engine & Machine Co. ("Racine" Snap), Racine, Wis.

REEVES BROS. CO., Alliance, O. (See adv. index, end of book)

SMITH, J. D. FOUNDRY SUPPLY CO. (Snap), 1581 Columbus rd., N. W., Cleveland, O. (See adv. index, end of book)

WHITING FOUNDRY EQUIPMENT Co., Harvey, Ill. (See adv. index & branch offices, end of book)

Flax Fibre Products

Union Fibre Co., Winona, Minn., & Milwaukee, Wis.

Flint (Crushed)

York Chemical Works, York, Pa.

Flint Pebbles & Flint Linings

Buebendorf Bros., Produce Ex., New York
Delarue, Robert & Co., 132 Front, New York
McGlincey, John D. & Co. (Pebbles for Cement Mfrs. a Specialty), 21 Fulton, New York
Smidth, F. L. & Co., 39 Cortlandt, New York
Voigt, B. (French & Danish), 132 Front, New York

Floats (Copper)

Bay State Metal Works, Cambridge, Mass.
Blessing, C. A., 516 Montgomery av., Philadelphia, Pa.

Boekel, Wm. & Co., 518 Vine, Philadelphia, Pa.
Boston Brass Co., 36 Oliver, Boston, Mass.

Briggs, William ("Dirigo" Solderless), 100 Schermerhorn, Brooklyn, N. Y.

Carr, J. H. & Co., 7 Sherman, Chsn, Boston, Mass.

Cleveland Faucet Co., 25 Frankfort, Cleveland, Ohio

Composite Copper Goods Co. (Seamless), 18 Morris, Jersey City, N. J.

Diamond Mfg. Co., Detroit, Mich. land, O.
Douglas, Jno., Co., 900 Poplar, Cincinnati, O.

Haydenville Co., Haydenville, Mass.
Hercules Float Works (Seamless), Springfield, Mass.

Ireland & Matthews Mfg. Co. (For Tanks), Detroit, Mich.

Miller, Hubbard Mfg. Co., Sturgis, Mich.
Nangatuck Mfg. Co. (Seamless), Naugatuck, Conn.

Nelson, N. O. Mfg. Co., St. Louis, Mo.
Page, Wm. E., 166th & Walton av, New York

Pfau Mfg. Co., 936 Reading Rd., Cincinnati, O.
Ronalds & Johnson Co., 54 Cliff, New York

Reliance Gauge Column Co. (Solderless), 70 E Prospect, Cleveland, O.

Solderless Copper Float Co. ("Dirigo" Solderless), 44 Withers, Brooklyn, N. Y.

Smith & Pomeroy, Kalamazoo, Mich.
Steeger, Henry, 143 E 31st, New York

Trageser, Jno., Steam Copper Works, 447 W 26th, New York

Union Brass & Metal Co., St. Paul, Minn.
Victor Mfg. Co., Concord, N. H.

Watson & McDaniel (For Steam Traps), 146 N 7th, Philadelphia, Pa.

WILSON, F. CORTEZ & CO. (also Galvanized), 239 Lake, Chicago, Ill. (See adv. index, end of book)

Floats (Crockery)

Bellmark Pottery Co., Trenton, N. J.
Great Western Pottery Co., Kokomo, Ind.
Maddock, Jno. & Son, Trenton, N. J.
Standard Sanitary Pottery Co., Elizabeth, N. J.
Trenton Potteries, Trenton, N. J.

Floats (Glass)

Burr, John M., 1939 Fulton, Brooklyn, N. Y.
Heap, Wm. & Sons, Grand Haven, Mich.
Jones, O. H. ("Capitol City," no Solder), Hartford, Conn.

Floats (Life)

Carley Life Float Co. ("Carley"), E Boston, Mass.

Floats (Zinc)

Ireland & Matthews Mfg. Co. (For Tanks), Detroit, Mich.

Floor Deadening

(See Felts, Deadening)

Floor Finish

Acme White Lead & Color Works, Detroit, Mich.

Atlantic Drier Co., Drexel bldg., Philadelphia, Pa.

BINSWANGER, B. & CO. ("Zanzibor-lio"), 115 N 4th, Phila., Pa.

Bowers, U. R. & Sons ("Afro-Lac"), Los Angeles, Cal.

Bridgeport Wood Finishing Co., New Milford, Conn.

Butcher Polish Co., 356 Atlantic Av, Boston, Mass.

Chicago Varnish Co., 41 Dearborn av, Chicago, Ill.

Chicago Wood Finishing Co., 259 Elston av, Chicago, Ill.

Cleveland Varnish Co. ("Permanere"), 14 Rockland av, Cleveland, O.

Gilman, Chas. H. ("Drescote"), 103 Merrimac, Boston, Mass.

Glidden Varnish Co. ("Jap-A-Lac"), Rockefeller bldg., Cleveland, O.

Hauna Paint Mfg. Co. ("Lustro"), 111 E Long, Columbus, O.

Lilly Varnish Co. (Parquetry Floor Preservative), Indianapolis, Ind.

Nice, Eugene E. ("Agate"), 272 S 2d, Philadelphia, Pa.

Parker Mfg. Co., 18 Hoosick, Troy, N. Y.

Pratt & Lambert, Buffalo, N. Y., & 176 Fulton, New York

STANDARD VARNISH WORKS (Gutta Percha & Flatline), 29 B'way, New York. (See adv. index & branch offices, end of book)

Vilas Bros. (Floorum Varnish), 227 5th av, Chicago, Ill.

Wadsworth-Howland Co., Chicago

Wilson Co. ("Wilson" Liquid), 18 B'way, New York. Works, Long Island City, N. Y.

Floor Lights

(See Vault & Sidewalk Lights.)

Floor Oils (Dust Absorbing)

American Dust Absorbing Floor Oil Co., 441 B'way, N. Y.

Bird, J. A. & W. & Co. (The Glohe), 34 India, Boston, Mass.

Keyes, S. P., 149 Congress, Boston, Mass.

Lewis, Samuel ("Alpine Wax Oil"), 126 Pearl, New York City

New England Dustalayer Co., 620 Atlantic av, Boston, Mass.

Winn, Wm. R., 143 Maiden la, New York

Floor Plates (Wrought Steel)

(See Plates, Floor, Iron & Steel)

Floor Polish (Hard Wax)

Acme White Lead & Color Works ("Flintway Colonial), Detroit, Mich.

Bird, J. A. & W. & Co., 34 India, Boston, Mass.

Bridgeport Wood Finishing Co., New Milford, Conn.

Butcher Polish Co., 356 Atlantic av, Boston, Mass.

Chicago Varnish Co., 35 Dearborn av, Chicago, Ill.

THE INTERIOR HARDWOOD CO
MANUFACTURERS INDIANAPOLIS, IND.
(See adv. index, end of book)

Johnston, S. C. & Son, Racine, Wis.

Lowell Polish Co., Lowell, Mass.

Sherwin-Williams Co., 104 Canal, Cleveland, O.

Smith, John A. (The Nonpareil), 456 S. B'way, Los Angeles, Cal.

Terwilliger Mfg. Co., 3 W 23d, N. Y., & 302 Fulton, Brooklyn, N. Y.

Wadsworth, Howland & Co., 84 Wash'n, Boston, Mass.

Wilson Co. (Also Liquid), 18 B'way, New York. Works, Long Island City, N. Y.

WOOD-MOSAIC FLOORING & LUM-ber Co., Main Office & Works, Rochester, N. Y. (See adv. index & branch offices, end of book)

Floor Sleeves

ANDREWS & JOHNSON CO. (Insula-tion for Steam Pipes), 256 Wash'n boul, Chicago, Ill. (See adv. index, end of book)

Floor Surfacing Machines

(See Machinery)

Floor Stands for Valves

LUNKENHEIMER CO., General Of-ices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

Floor Wax

Boyle, A. S. & Co., 1908 W. 8th, Cincinnati, O.

Floor & Ceiling Plates

(See Plates, Floor & Ceiling)

*Flooring for Stables

FLEMING & CO. (Adamantine Clink-er Brick), 123 Liberty, N. Y. (See adv. index, end of book)

Flooring (Hard Wood)

Carrier Lumber & Mfg. Co., Sardis, Miss.

CHICAGO MILL WORK SUPPLY CO., cor. 22d & Sangamon, Chicago, Ill. (See adv. index, end of book)

Cincinnati Floor Co., Cincinnati, O.

Cooley, Wm. H. (Patent Matching), 1158 Clybourn av, Chicago, Ill.

Cowper & Wilson Olean, N. Y.

Dunfee & Co., 59 N Claremont av, Chicago, Ill.

Heaton & Wood, 1706 Chestnut, Phila., Pa.

Inlaid Floor Co., 422 Sutter, San Francisco, Cal.

THE INTERIOR HARDWOOD CO
MANUFACTURERS INDIANAPOLIS, IND.
(See adv. index, end of book)

SALMON, HAMILTON H. & CO. Wholesale Mfrs., 88 Wall, New York

STEARNS, A. T. LUMBER CO., Neponset, Boston, Mass. (See adv. index, end of book)

Union Planing Mill Co., Olean, N. Y.

WOOD-MOSAIC FLOORING & LUM-ber Co., Main Office & Works, Rochester, N. Y. (See adv. index & branch offices, end of book)

Flooring (Maple)

Benedict, C. D. & Co., Peoria, Ill.

Buffalo Maple Flooring Co., Buffalo, N. Y.

Cream City Sash & Door Co., 7th av & Park, Milwaukee, Wis.

Cummer, Diggins & Co., Cadillac, Mich.

Curtis & Yale Co., Wausau, Wis.

Dwight Lumber Co., Detroit, Mich.

Excelsior Clay Works, Brazil, Ind.

Forman, Thos. Co. (Maple & Oak, Bored & End Matched), Detroit, Mich.

Fulghum Mfg. Co., Traverse City, Mich.

Fuller & Rice Lumber & Mfg. Co., Grand Rapids, Mich.

Gilchrist, F. W., Alpena, Mich.

Jennings Bros., Lopez, Pa.

Krouskop, A. H., Richland Centre, Wis.

Lennan, Isaac P. & Co., Lumber Exchange, Minneapolis, Minn.

Loddell & Bailey Mfg. Co., Onaway, Mich.

Mitchell Bros. Co. (Hand or Rock), Cadillac, Mich.

Morgan Co., Oshkosh, Wis.

North Branch Flooring Co., 1735 N Western av, Chicago, Ill.

WOOD-MOSAIC FLOORING & LUMBER COMPANY,

Rochester, N. Y., New Albany, Ind., and Louisville, Ky.

MANUFACTURERS OF

HARDWOOD FLOORS

Lumber and Veneers. High Grade Thick and Thin. Parquetry,
Wood Carpet, Fancy Borders, also Polishing Wax and Brushes.

Write for Illustrated Catalogue.

PRINCIPAL AGENCIES:

| | |
|------------------|---|
| ROCHESTER, N. Y. | A. ADAMS, 29 East Avenue |
| NEW YORK CITY | WOOD MOSAIC CO., 9 East 32d Street |
| BOSTON | R. T. ADAMS, 24 Bromfield Street |
| BALTIMORE | J. M. ADAMS, 227 N. Charles Street |
| COLUMBUS, OHIO | THE KRAUSS, BUTLER & BENHAM CO. |
| PHILADELPHIA | HEATON & WOOD, 1706 Chestnut Street |
| PITTSBURG | WOOD MOSAIC FLOORING CO., Empire Building |
| WASHINGTON | J. M. ADAMS, 1126 Connecticut Avenue |
| CINCINNATI | MOORES-CONEY CO., 1511 Union Trust Building |
| NEWARK | R. A. DORRILL, 637 Broad Street |
| DETROIT | PARQUET FLOORING CO., 100 Broadway |
| CLEVELAND | CLEVELAND HARDWOOD FLOOR CO., 39 Taylor Arcade |
| MILWAUKEE | JOHN DOUBRAWA, 88 Biddle Street |
| ST. LOUIS | JOHN HERR FLOOR CO., 2110 Olive Street |
| TROY, N. Y. | J. CRAWFORD GREEN & SON, 265 River Street |
| TOLEDO | E. G. McFILLLEN, 1014 Monroe Street |
| MONTREAL, CANADA | MONTREAL WOOD MOSAIC FLOORING CO., 730 St. Catharine Street |
| BUFFALO, N. Y. | STEVENS FLOOR CO., 658 Main Street |
| DENVER | DENVER HARDWOOD FLOOR CO., 1340 South 15th Street |
| SAN FRANCISCO | HARDWOOD INTERIOR CO., 873 O'Farrell Street |

POLISHED HARDWOOD
PARQUET
FLOORING STRIPS

PLAIN OR ORNAMENTAL
THICK OR THIN

FLOORS

STOCKS
CARRIED IN
LEADING
CITIES

Prices and Catalogue of design FREE

WOOD CARPET

WEIGHTED BRUSHES

FLOOR WAX

THE INTERIOR HARDWOOD CO
MANUFACTURERS INDIANAPOLIS, IND.

THE SCHILLINGER BROS. CO.

Re-inforced Concrete Work, Asphalt Pavements and Gravel Roofing

MANUFACTURERS OF

HYGIENIC - JOINTLESS - FIREPROOF - FLOORS

Best Floor Covering for School Houses, Offices, Hospitals, Theatres,
Residences and Factories. Can be Laid over Brick or Concrete Floor
from $\frac{1}{2}$ " to $1\frac{1}{4}$ " in Thickness. It is Non-Conductive.

TOLEDO

OHIO

High Grade Crank Shafts,

Forged under Steam Hammer, from Special Grade of Steel made particularly for this work. We furnish Rough Forgings, Rough Turned Shafts, or will be pleased to quote upon Shafts finished and ground to exact sizes. ♣ ♣

CONTRACTS WITH GAS ENGINE AND AUTO MANUFACTURERS SOLICITED.

DROP FORGINGS

We have a thoroughly up-to-date Drop Forging Plant, and will be pleased to quote upon quantity orders of Forging, our specialty being work to special order, as we have no stock dies of standard machine parts. ♣ ♣

ANDERSON FORGE & MACHINE CO.

271 Guion Street, Detroit, Mich.

HEAVY DROP FORGINGS

weighing from 10
to 500 lbs. each.

We have the largest and most modern equipment in America for making Heavy Drop Forgings, and will be pleased to quote special prices upon application.

We carry a stock of Forged Steel Pipe Flanges of every description.

AMERICAN SPIRAL PIPE WORKS,

Eastern Office, 39 Cortlandt St., New York, N. Y.

General Office and Works, CHICAGO.

TO OUR ADVERTISERS AND SUBSCRIBERS.

At any time during the year, that you do not find classified in our book the names and addresses of the Manufacturers of any ARTICLE you are in the market to PURCHASE, please write us, giving as complete particulars as possible, and we will always endeavor to render you PROMPT SERVICE in furnishing you the names and addresses of such Manufacturers and without any cost or obligation. This does not include Mailing Lists.

S. E. HENDRICKS CO.

Read, F. W. & Co. I. & L. Pollshed, etc.), Marquette, Mich.
 Rittenhouse & Embree Co., 3500 S Centre av, Chicago, Ill.
 Schroeder, Jno. Lumber Co., Milwaukee, Wis.
 Schultz Bros., 84 Van Buren, Chicago, Ill.
 South Side Lumber Co., S Ashland av & W 22d Chicago, Ill.
STEARNS, A. T. LUMBER CO. (Lumber), Neponset, Boston, Mass. (See adv. index, end of book)
 Stephens, Henry & Co., Park hldg., Detroit, Mich.
 Stephenson, The I. Co., Wells, Mich.
 White Bros. (Inc.), c Spear & Howard, San Francisco, Cal.
 Wilce, T. Co., Throop & W 22d sts, Chicago, Ill.
 Wisconsin Land & Lumber Co. (Maple, Birch & Cherry), Hermansville, Mich.
 Young, W. D. & Co., West Bay City, Mich.

Flooring (Oak)

(See also Flooring, Maple.)

Arthur Hardwood Flooring Co., J. C. Rys., Thomas ave., Memphis, Tenn.
 Farrin-Korn Lumber Co., Station av., Wilton, O.
 Fern Bros. Co., Kansas & Mallory av., Memphis, Tenn.
 Fourche River Lumber Co., Fourche, Ark.
 Krouskop, A. H., Richland Centre, Wis.
 Linehan Lumber Co., Farmer's Bank bldg, Pittsburg, Pa.
 Mitchell Bros. Co. ("Red Oak"), Cadillac, Mich.
 Morgan Co., Factory & General Offices, Oshkosh, Wis.
 Nashville Hardwood Flooring Co., Nashville, Tenn.
STEARNS, A. T. LUMBER CO., Neponset, Boston, Mass. (See adv. index, end of book)
WOOD-MOSAIC FLOORING & LUMBER CO., Main Office & Works, Rochester, N. Y. (See adv. index & branch offices, end of book)

Flooring (Sanitary)

American Monolith Co. ("Monolith"), Milwaukee, Wis.
 Keasbey, Robt. A. Co. ("Crown"), 100 Moore, New York.
SCHILLINGER BROS. CO., 215 City Park av, Toledo, O. (See adv. index, end of book)
 Sedgwick-Flower Co. ("Ideal-Monolith"), 1133 B'way, New York
 Thompson & Kirkpatrick (Asbestos Composition), 34 S. 16th, Phila., Pa.

Flooring (Sawdolet)

Clements, C. Co., 1722 Oregon av, N. E., Cleveland, O.

Flooring (Wood Block)

Nightingale Co. (Interlocking), 277 B'way, New York
WILSON, JAS. G. MFG. CO., Chief Office, 3 W 29th, New York. Mills & Factory: Norfolk, Va. (See adv. index, end of book)
WOOD-MOSAIC FLOORING & LUMBER CO., Main Office & Works, Rochester, N. Y. (See adv. index & branch offices, end of book)

Flooring (Woven Wire)

(See Mats & Matting, Steel Wire, etc.)

*Floors (Jointless)

SCHILLINGER BROS. CO., 215 City Park av, Toledo, O. (See adv. index, end of book)

Floors (Parquet)

(Star (*) Indicates Manufacturers)

Adams, R. T. (Wood Mosaic Flooring Co.), 24 Bloomfield, Boston, Mass.
 American Parquetry Co., 3 E. 42d, N. Y.
 *American Parquetry Floor Co., 1124 Walnut, Philadelphia, Pa.
 Bateman, Wm., 835 Folsom, San Francisco, Cal.
 *Bostwick-Godell Co., Norwalk, O.
 *Boynton, John H., 186 5th av, N. Y.
 Buttle Parquet Floor Co., 36 W. 27th, New York
 Carthage Lumber Co., Carthage, N. Y.
CHICAGO MILL WORK SUPPLY CO., cor. 22d & Sangamon, Chicago, Ill. (See adv. index, end of book)

*Cincinnati Floor Co., Cincinnati, O.
 Cleveland Hardwood Floor Co., Colonial Arcade, Cleveland, O.
 *Dunfee, J. & Co., 104 Franklin Union, Chicago, Ill.
 Eaglesfield-Stewart Co., 904 Dorman, Indianapolis, Ind.

Frings, Martin 228 S Sth, Phila, Pa.
 Halbert, Geo. Co., 455 Fulton, Brooklyn, N. Y.
 Hamilton, H. E. & Co., Indianapolis, Ind.
 Heaton & Wood, 1706 Chestnut, Phila., Pa.
 Herr, Jno., Floor Co., 1822 Olive, St. Louis, Mo.
 Inlaid Floor Co., 422 Sutter, San Francisco, Cal.

THE INTERIOR HARDWOOD CO MANUFACTURERS INDIANAPOLIS, IND.

(See adv. index, end of book)

*Johnson, S. C. & Son, Racine, Wis.
 *Koch, G. W. & Son, 467 5th av, N. Y.
 Lennan, Isaac P. & Co. (Wholesale), Lumber Exchange, Minneapolis, Minn.
 McFillen & Arnold, 1014 Monroe, Toledo, O.
 Moore, E. B. & Co., 76 Wabash, Chicago, Ill.
 Moore, J. C. & Co., 38 S 18th, Phila., Pa.
 *National Wood Floor Co., 11 W 28th, New York
 *New York Flexible Wood Flooring Co., 37 W 42d, New York
 Northwestern Parquet Floor Co., 82 S 9th, Minneapolis, Minn.
 Osgood, Blodgett Mfg. Co., St. Paul, Minn.
 *Phelps Bros. & Co., Wellington, O.
 *Pope, Charles A., 726 Lexington av, New York
 Reid, Wm. G. & Co., 2 W 33d, N. Y.
 Riverton Mfg. Co., Phila., Pa. Factory: Riverton, N. J.
 Roll's, W. H. Sons, 46 Monument pl., Indianapolis, Ind.
 St. Paul Parquet Floor Co., Ryan bldg, St. Paul, Minn.
 Schulkins & Co. (Also Hardwood), 407 Prospect, Cleveland, O.
 Scott, Walker A. (Mfr.), Evansville, Ind.
 Serage Hygienic Floor Co., 52 N Front, Columbus, O.
 Smith, Jno. A. Co. (Operative Floor Co.), Los Angeles, Cal.
 Smith & Young, 723 Market, San Francisco, Cal.
 Standard Parquet Floor Co., 80 Court, B'klyn, N. Y.
 Terwilliger Mfg. Co., 3 W 23d, New York, & 302 Fulton, Brooklyn, N. Y.
 Tracy Floor Co., 268 Boylston, Boston, Mass.
 Traitel Bros. & Co., 44 E 19th, New York
 Victor Parquetry Floor Co., Lynn, Mass.
 *Wilke Mfg. Co. (Mfrs.), Anderson, Ind.
WOOD MOSAIC CO., 315 5th av, N. Y., & 153 Lawrence, Brooklyn, N. Y.
***WOOD-MOSAIC FLOORING & LUMBER CO.**, Main Office & Works, Rochester, N. Y. (See adv. index & branch offices, end of book)

Flour (Foundry)

Chicago Flour Co., 135 Adams, Chicago, Ill.
 Piqua Flour Co. (Core Flour), Piqua, O.

Flour Mill Builders

Barnard Machinery Co., Enterprise, Kan.
 Barnard & Leas Mfg. Co., Moline, Ill.
 Dehner-Wuerpel Mill Bldg. Co., St. Louis, Mo.
 Flour Mill Machinery Co., Battle Creek, Mich.
 Harmon-Whitmore Co., Jackson, Mich.
 Hutchinson, Jno. Mfg. Co., Jackson, Mich.
 Jackson Flour Mill Machinery Mfg. Co., Jackson, Mich.
 Pye, Jas., 311 S 3d, Minneapolis, Minn.
 Richmond City Mill Works, Richmond, Ind.
 Robinson Mfg. Co., Muncy, Pa.
 Salem Machine Works, Salem, Va.
 Starr, B. F. Co., 455 North, Baltimore, Md.
 Stone, R. C., Springfield, Mo.

Flour (Tripoli)

Callery, W. W. & Co., 36th & Butler, Pittsburg, Pa.

Flower Pot Mfrs.

Cambridge Tile Mfg. Co. (Inc.), Covington, Ky.
 Findlay Clay Pot Co., Findlay, O.
 Ionia Pottery Co., Ionia, Mich.
 Johnson Pottery Co., Mt. Gilead, O.
 Standard Tay Marble Co., Akron, O.
 Uhl Pottery Co., Evansville, Ind.

Washington Brick, Lime & Mfg. Co., Spokane, Wash.
 Wassall Fire Clay Co., 40 E Spring, Columbus, Ohio

Flue Cleaners or Brushes

(See Boiler Flue & Tube Cleaners)

Flue Linings

American Sewer Pipe Co., Bessemer bldg, Pittsburgh, Pa.
 American Clay Products Co., Chamber of Commerce bldg, Chicago, Ill.
 Birmingham Fire Brick Works, Birmingham, Ala.
 Brockett, C. A. Cement Co., Kansas City, Mo.
 Brooklyn Fire Brick Works, 88 Van Dyke, Brooklyn, N. Y.
 Buckeye Fire Clay Co., Uhrichsville, O.
 Clearfield Clay Working Co., Clearfield, Pa.
 Clark, N. & Sons, 17 Spear, San Francisco, Cal.
 Crown Fire Clay Co., Canal Dover, O.
 Denny-Renton Clay & Coal Co., Seattle, Wash.
 Denver Terra Cotta Lumber Co., Denver, Colo.
 Dickey, W. S. Clay Mfg. Co., Kansas City, Mo.
 Duffy, J. P. Co., 440 E 138th, New York
 East Ohio Sewer Pipe Co., Irondale, O.
 Evens & Howard Fire Brick Co., 920 Market, St. Louis, Mo.
 Federal Clay Mfg. Co., 170 B'way, N. Y.
FISKE & COMPANY (Inc.) (Mfrs. Agents), 161 Devonshire, Boston, Mass., & Flat Iron bldg, New York. (See adv. index, end of book)
 Gladding, McBean & Co., San Francisco, Cal.; Works, Lincoln, Cal.
 Golden Pressed & Fire Brick Co., 431 15th, Denver, Col.
 Haydenville, Co., Haydenville, O.
 Hutchins, J. A. & Co., Wyoming, Pa.
 Iowa Pipe & Tile Co., Des Moines, Ia.
 Jackson, John H., 142 S 3d av, Albany, N. Y.
 Klotz, A. E., Fireproofing Co., 137th and Madison av, N. Y. City.
 Laclede Fire Brick Mfg. Co., Manchester & Sulphur avs, St. Louis, Mo.
 Little Falls Fire Clay Co., Little Falls, Wash.
 Macomb Sewer Pipe Co., Macomb, Ill.
MAURER, HENRY & SON, 420 E. 23d, New York; Penna. hldg, Phila., Pa. Works, Maurer, N. J. (See adv. front index, side cover)
 Monmouth Mining & Mfg. Co., Monmouth, Ill.
 National Terra Cotta Works, 316 13th, N. W., Washington, D. C.
 New York Pottery Co., 949 B'way, New York
 Parker & Russell Mining & Mfg. Co., 417 Pine, St. Louis, Mo.
 Patton Clay Mfg. Co., Patton, Pa.
 Pea Shore Brick & Terra Cotta Works, 31 Market, Camden, N. J.
 Pittsburg Sewer Pipe & Conduit Co., Pittsburg, Kans.
 Pomona Terra Cotta Co., Pomona, N. C.
 Potomac Terra Cotta Co., Corcoran bldg, Washington, D. C.
 Richmond Clay Products Co., Reading, Pa.
 Robinson Clay Product Co., Akron, O.
 Rochester Sewer Pipe Co., 545 Oak, Rochester, N. Y.
 Southern Sewer Pipe Co., Birmingham, Ala.
 Southern Terra Cotta Works, 304 Chapel, Atlanta, Ga.
 Stevens, H. Sons Co., Macon, Ga.
 Stratton Fire Clay Co., Empire, O.
 Streater Clay Mfg. Co., Streater, Ill.
 Syracuse Stoneware Co. (Branch of Robinson Clay Product Co., of Akron, O.), Syracuse, N. Y.
 Uhl Pottery Co., Evansville, Ind.
 Williams, N. A. & Co., Chamber of Commerce bldg, Chicago, Ill.

Flue Scrapers

(See Boiler Flue & Tube Cleaners.)

Flumes (Iron)

COHOES IRON WORKS, Cohoes, N. Y. (See adv. index, end of book)
 Fitz Water Wheel Co., Hanover, Pa.
 Franklin Boiler Works Co., Green Island, Troy, N. Y.
 Hunt, Rodney Machine Co., Orange, Mass.
NEW YORK CENTRAL IRON WORKS Co. (also Steel), Geneva, N. Y. (See adv. index, end of book)
 Risdon Iron & Locomotive Works, San Francisco, Cal.
 Southern Bridge Co., Birmingham, Ala.

Fluorspar

COHOES IRON FOUNDRY & MACHINE Co., Cohoes, N. Y. (See adv. index, end of book)
Crystal Fluorspar Mining Co., Cleveland, O. (Ground)
Eagle Fluor Spar Co. (For Metallurgical Purposes), Wheeling, W. Va., & Salem, Ky.
Kentucky Fluor Spar Co., Marion, Ky.
Roessler & Hasslach Chemical Co., 100 William, New York
Tennant & Sons Co. (Importers), 76 William, New York

Flush Tanks

Berry Flush Tank Co. (Inc.), Iowa City, Iowa
De La Hunt Flush Tank Co. ("De La Hunt," Automatic Siphon for Flushing Pipe Sewers), Cedar Rapids, Ia.
KOVEN, L. O. & BRO., 50 Cliff, New York. (See adv. index, end of book)
Newport Foundry & Machine Corporation (Sewage Disposal Siphon), Newport, R. I.
Pacific Flush Tank Co. ("Miller" Automatic Siphon for Flushing Sewers), 184 La Salle, Chicago, Ill.

Flushers (Automatic Sewer)

Healey Sewer Machine & Construction Co., 15 Beacon, Boston, Mass.

Flux (Soldering)

(See Soldering Paste, Salts & Stick)

*Fly Killers (Fine Steel Wire)

OSBORN MFG. CO., Cleveland, O. (See adv. index, end of book)

Fly Nets

Given, R. & Son Co. (For Horses), Sidney, O.
Penna Net Co., Wellsville, Pa.
Wellsville Mfg. Co., Wellsville, Pa.
Wilson, R. F. & Co. (Leather), Milton, Pa.

Foot Rests (Automobile)

BURROWES, E. T. CO. ("Royal"), Portland, Me. (See adv. index & branch offices, end of book)

Foot Warmers (Soap Stone)

Plumbers' Soapstone Co. of America, Oak Ridge, Va.

Forges (Blast)

Buffalo Forge Co. (Stationary & Portable), Buffalo, N. Y.
Miner & Peck Mfg. Co., New Haven, Conn.
Sturtevant, B. F. Co., Hyde Park, Mass.

*Forges (Bridge Builders')

INGERSOLL-RAND CO., 11 B'way, New York. (See adv. index & branch offices, end of book)

Forges (Down Draft)

Buffalo Forge Co., Buffalo, N. Y., & 39 Cortlandt, New York

Forges for Brazing Irons

Covel Mfg. Co., Benton Harbor, Mich.

Forges for Drop Forging Plants.

AMERICAN GAS FURNACE CO. (Gas Blast), 24 John, New York, & Elizabeth, N. J. (See adv. index, end of book)
Billings & Spencer Co., Hartford, Conn.
Bradley, C. C. & Son, Syracuse, N. Y.
Miner & Peck Mfg. Co., New Haven, Conn.
Union Drop Forge Co., 66 E Ohio, Chicago, Ill.

Forges (Gas Blast)

AMERICAN GAS FURNACE CO., 24 John, New York, & Elizabeth, N. J. (See adv. index, end of book)
Comstock, A. S. (Automatic Power), Evanston, Ill.
Westmacott, J. M. Co., 159 Orange, Providence, R. I.

Forges (Heating)

Beaudry & Co., 141 Milk, Boston, Mass.
Buffalo Forge Co., Buffalo, N. Y., & 39 Cortlandt, New York
Crane, W. W. Foundry & Machine Works, Auburn, N. Y.
Evans', Jno. Sons (& Welding), 13th & Buttenwood, Phila., Pa.

Forges (Oil, Portable)

Boston Crude Oil Burner Co. (For Heating Rivets, etc.), Board of Trade bldg, Boston, Mass.
Burke Machinery Co., Cleveland, O.
National Supply Co. ("Billow" System), 315 Dearborn, Chicago, Ill.

Forges (Pneumatic)

Gunnell Machine Co., Manitowoc, Wis.

Forges (Portable)

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)
Billings & Spencer Co., Hartford, Conn. (book)
Boynton & Plummer, Worcester, Mass.
Braun, F. W. (& Tempering Furnace), 18 Spear, San Francisco, Cal.
Brown & Patterson, 33 Marcy av, Brooklyn, N. Y.
Buffalo Forge Co., Buffalo, N. Y.
Canedy-Otto Mfg. Co., Chicago Heights, Ill.
CANTON FOUNDRY & MACHINE CO. ("Universal," Blacksmiths', etc.), Canton, O. (See adv. index, end of book)
Champion Blower & Forge Co., Lancaster, Pa.
Chicago Scale Co., 292 W Jackson houl, Chicago, Ill.
Cinn. Plow & Bellows Works, 2025 Reading rd, Cincinnati, O.
Cleveland Steam Gauge Co. ("Watson"), 1619 Merwin, N. W., Cleveland, O.
Cox & Sons Co., 215 Race, Phila., Pa.
Cumming, David, 787 W Kinzie, Chicago, Ill.
Empire Forge Co., Troy, N. Y.
Foos Mfg. Co. (Blacksmiths & Farmers), Springfield, O.
Garratt, W. T. & Co., Fremont & Natoma, San Francisco, Cal.
Hoermann, A. E. ("Gunnell" Pneumatic), 41 Park row, New York
INGERSOLL-RAND CO., 11 B'way, New York. (See adv. index & branch offices, end of book)
Kinsley Iron & Machine Co. (Blacksmiths), Canton, Mass.
Litchfield Mfg. Co. ("Hornet" Farm), Webster City, Iowa
MacLeod, Walter & Co. (Oil Fuel, Pneumatic), 213 E Pearl, Cincinnati, O.
Potts, D. H., Lancaster, Pa.
Roots, P. H. & F. M. Co., Connorsville, Ind.
Russ, A. E. Mfg. Co., 87 Wade Park av, Cleveland, O.
Silver Mfg. Co., Salem, O.
Slotkin & Mayer ("Kickdrive"), 210 Canal, New York
Star Forge Co. (Portable Bellows Forge), 150 Terrace, Buffalo, N. Y.
Sturtevant, B. F. Co. (Also Stationary), Hyde Park, Mass.
Union Forge & Mfg. Co. (Rivet), 142 Ryan, Buffalo, N. Y.

Forges (Rivet Heating)

Boston Crude Oil Burner Co. ("Jackson" Oil Burner Self-Cleaning), Board of Trade bldg, Boston, Mass.
CHICAGO PNEUMATIC TOOL CO. ("Tynan"), Fisher bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Hoermann, A. E. ("Gunnell" Pneumatic), 41 Park row, New York
INGERSOLL-RAND CO. ("McDonald"), 11 B'way, New York. (See adv. index & branch offices, end of book)
Rockwell Engineering Co. (Portable Oil), 26 Cortlandt, New York
Star Forge Co. (Portable Bellows Forge), Buffalo, N. Y.
Tate, Jones & Co. (Inc.) (Portable Oil Rivet Forges), Pittsburgh, Pa.

Forging Machines

(See Machines, Forging)

Forging Machines (Hydraulic)

(See Machines, Forging, Hydraulic)

Forgings (Aluminum)

Belden Machine Co., New Haven, Conn.
Union Drop Forge Co., 66 E Ohio, Chicago
United States Aluminum Co., Pittsburgh, Pa.
WILLIAMS, J. H. & CO., 150 Hamilton, Brooklyn, N. Y. (See adv. index, end of book)

Forgings (Automobile)

(See also Forgings, Drop.)

AMERICAN SPIRAL PIPE WORKS, W 14th & 48th av, Chicago, Ill. (See adv. index & branch offices, end of book)
American & British Mfg. Co., Providence, R. I., & Bridgeport, Conn.
ANDERSON FORGE & MACHINE CO., 271 Guoin, Detroit, Mich. (See adv. index, end of book)
Atwater Mfg. Co., Southington, Conn.
Bates Forge Co., Indianapolis, Ind.
Belden Machine Co., New Haven, Conn.
Billings & Spencer Co., Hartford, Conn.
BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)
Chicago Drop Forge Co., Kensington, Chicago, Ill.
Consolidated Mfg. Co., Toledo, O.
Crescent Forgings Co., Oakmont, Pa.
Dunne, Geo. W. & Co., 687 Carroll av, Chicago
Dyson, Jos. & Sons, 5125 St Clair av, N. E., Cleveland, O.
Eicher Co. Alliance, O.
Gill, P. H. & Son, Lorraine & Otsego, Brooklyn, N. Y.
Hussey Drop Forge & Mfg. Co., Cleveland, O.
Indianapolis Drop Forging Co., Indianapolis, Ind.
Jackson Drop Forging Co., Jackson, Mich.
Keystone Drop Forge Works, Chester, Pa.
Morris, Herbert, Betz bldg, Philadelphia, Pa.
Page-Storms Drop Forge Co., Chicopee Falls, Mass., & Springfield, Mass.
Seward, M. & Son Co., Grant nr Plymouth, New Haven, Conn.
Sizer Forge Co., 38 Larkin, Buffalo, N. Y.
Standard Connecting Rod Co., Beaver Falls, Pa.
Strieby & Foote Co. (Drop), Newark, N. J.
Tindel-Morris Co. (Finished), Eddystone, Pa., & Ellwood City, Pa.
Union Drop Forge Co., 66 E Ohio, Chicago
WORCESTER PRESSED STEEL CO. (Cold), Worcester, Mass. (See adv. index, end of book)
Wyman & Gordon, Worcester, Mass.

Forgings (Automatic Coupler)

American Iron & Steel Co. (Back Link, Knuckle & Pivot Pins, Drawhead Bolts with Nuts, etc.), Lebanon, Pa.

Forgings (Bronze)

Billings & Spencer Co., Hartford, Conn.
Booth Drop Forge Co. (Drop), 114 Nassau, New York
Eureka Tempered Copper Works, North East, Pa.
Keystone Drop Forge Works, Chester, Pa.
Morris, Herbert, Betz hldg, Philadelphia, Pa.
Phosphor Bronze Smelting Co., Ltd., 2200 Washington av, Philadelphia, Pa.
Union Drop Forge Co., Chicago, Ill.
WILLIAMS, J. H. & CO., 150 Hamilton av, Brooklyn, N. Y. (See adv. index, end of book)
Wyman & Gordon, Worcester, Mass.

*Forgings (Cold)

WORCESTER PRESSED STEEL CO., Worcester Mass. (See adv. index, end of book)

Forgings (Copper)

ANDERSON FORGE & MACHINE CO., 271 Quoin, Detroit, Mich. (See adv. index, end of book)
Belden Machine Co., New Haven, Conn.
Billings & Spencer Co., Hartford, Conn.
Columbia Machine Works & Malleable Iron Co., 269 Chestnut, Brooklyn, N. Y.
Eureka Tempered Copper Works, North East, Pa.
Forest City Electric Co. (Roll Drop), Cleveland, Ohio
Keystone Drop Forge Works, Chester, Pa.
Kilborn & Bishop Co., New Haven, Conn.
Union Drop Forge Co., Chicago, Ill.
WILLIAMS, J. H. & CO., 150 Hamilton av, Brooklyn, N. Y. (See adv. index, end of book)
Wyman & Gordon, Worcester, Mass.

Forgings (Delta Metal)

Phosphor Bronze Smelting Co., 2200 Wash'n av,
Philadelphia, Pa.

Forgings (Drop)

Akron Machine Co., Akron, O.

AMERICAN SPIRAL PIPE WORKS.
W 14th & 48th av, Chicago, Ill. (See adv.
index & branch offices, end of book)

American & British Mfg. Co., Providence, R. I.,
& Bridgeport, Conn.

ANDERSON FORGE & MACHINE CO.,
271 Quoin, Detroit, Mich. (See adv. index,
end of book)

Ashtabula Carriage Bow Co. (Bicycle Parts),
Ashtabula, O.

Barnett Drop Forging Co., Easthampton, Mass.
Bassett, D. M. Bolt Works (Inc.), Shelton,
Conn.

Bates Forge Co. (Flange Wheels), Indianapolis,
Ind.

Belden Machine Co., New Haven, Conn.
Bethlehem Steel Co., South Bethlehem, Pa.

Billings & Spencer Co., Hartford, Conn.
Billings, C. E. Mfg. Co., Rocky Hill, Conn.

Blakeslee Forging Co., Plantsville, Conn.
BLISS, E. W. CO., 19 Adams, Brook-
lyn, N. Y. (See adv. index, end of book)

Booth Drop Forge Co., 114 Nassau, New York
Brown, R. H. & Co., New Haven, Conn.

Canton Drop Forge & Mfg. Co., Canton, O.
Cape Ann Tool Co., Rockport, Mass.

Chicago Drop Forge & Foundry Co., Kensington,
Chicago, Ill.

Clapp, E. D. Mfg. Co. (Carriage, Bicycle, etc.),
Auburn, N. Y.

Columbia Machine Works & Malleable Iron Co.
(Elec. Railway), 269 Chestnut, Brooklyn,
N. Y.

Columbus Bolt Works (Carriage, etc.), Colum-
bus, O.

Columbus Forge & Iron Co., Columbus, O.
Consolidated Mfg. Co., Toledo, O.

Crescent Forgings Co., Oakmont, Pa.
Detroit Forging Co. (Carriage, etc.), Detroit,
Mich.

Doble, Abner Co. (All Kinds), 200 Fremont, San
Francisco, Cal.

Eccles, Richard Co. (Carriage & Special), Au-
burn, N. Y.

Eicher Co., Alliance, O.
General Drop Forge Co., 1738 Elmwood av,
Buffalo, N. Y.

Grangers Drop Forge Wks., 25 S Canal, Chicago,
Ill.

HELWIG MFG. CO., St. Paul, Minn.
(See adv. index, end of book)

Henry & Allen, Auburn, N. Y.
Herbrand Co., Fremont, O.

Hussey Drop Forge & Mfg. Co., Cleveland, O.
Indianapolis Drop Forging Co. (all kinds), In-
dianapolis, Ind.

Jackson Drop Forging Co., Jackson, Mich.
Keystone Drop Forge Works (Special, all kinds),
Chester, Pa.

Keystone Forging Co. (Carriage & Special),
Northumberland, Pa.

Kilborn & Bishop Co. (Carriage, Bicycle, etc.),
New Haven, Conn.

Marine Hardware & Equipment Co., South Port-
land, Me.

MERRILL BROS., 465 Kent av,
Brooklyn, N. Y. (See adv. index, end of
book)

Michigan Bolt & Nut Works, Detroit, Mich.
Monarch Tool Works (of all kinds), St. Louis,
Mo.

Moore Drop Forging Co., Springfield, Mass.
Morris, Herbert, Betz bldg, Philadelphia, Pa.

New Castle Forge & Bolt Co., New Castle, Pa.
O. K. Tool Co., Shelton, Conn.

Page-Storms Drop Forge Co. (Gun, Automobile,
Bicycle, Golf & Special), Springfield, Mass.

Penna. Drop Forging Co., 937 Fayette, Pitts-
burg, Pa.

Pittsburg Tool & Drop Forge Co. (R. R. &
Mining Tools), Chester, Pa.

Revere Drop Forge Co., Revere, Mass.
Rhode Island Tool Co., Providence, R. I.

Scranton Forging Co. (Carriage, etc.), Scranton,
Pa.

Sebring Forging Co., Sebring, O.
Seward, M. & Son Co. (Carriage, Bicycle, etc.),
New Haven, Conn.

Smith, H. D. & Co. (Vehicle & Special), Plants-
ville, Conn.

Solid Steel Tool & Forge Co. (Track, Mining &
Blacksmiths' Tools), Brackenridge, Pa.

Strieby & Foote Co. (Automobile & Special),
301 Ogden, Newark, N. J.

Thomson Drop Forging Co., Plantsville, Conn.
Transue & Williams Co., Alliance, O.

Union Drop Forge Co., Chicago, Ill.
United Drop Forging Co., Springfield, Mass.

Utica Drop Forge & Tool Co., Utica, N. Y.
Western Drop Forge Co., Marion, Ind.

Whitaker Mfg. Co., Chicago, Ill.

Wilcox, D. Mfg. Co., Mechanicsburg, Pa.
Wilcox, Crittenden & Co., Middletown, Conn.

Williams Drop Forging Co. ("Williams" Cant-
slip Horse Shoes & Calks), Scranton, Pa.

WILLIAMS, J. H. & CO., 150 Hamil-
ton av, Brooklyn, N. Y. (See adv. index,
end of book)

Wyman & Gordon, Worcester, Mass.

Forgings (Electric)

(See Welding, Electric)

Forgings (Electric Railway)

American Iron & Steel Mfg. Co., Lebanon, Pa.
Billings & Spencer Co., Hartford, Conn.

Columbia Machine Works & Malleable Iron Co.,
169 Chestnut, Brooklyn, N. Y.

Dunne, Geo. W. & Co., 687 Carroll av, Chicago
Keystone Drop Forge Works, Chester, Pa.

Oliver Iron & Steel Co., Pittsburg, Pa.
Union Drop Forge Co., 66 E Ohio, Chicago, Ill.

WILLIAMS, J. H. & CO., 150 Hamil-
ton av, Brooklyn, N. Y. (See adv. index,
end of book)

Forgings (Finished)

Morris, Herbert (Railway), Betz bldg, Phila-
delphia, Pa.

Tindel-Morris Co. (Specialty, Crankshafts), Ed-
dystone, Pa. & Ellwood City, Pa.

Forgings (Gas Engine)

ANDERSON FORGE & MACHINE CO.,
271 Quoin, Detroit, Mich. (See adv. index,
end of book)

Eicher Co., Alliance, O.
Tindel-Morris Co. (Specialty, Crankshafts Fin-
ished), Eddystone, Pa. & Ellwood City, Pa.

Tioga Steel & Iron Co., 52d & Gray's av, Phila-
delphia, Pa.

Union Drop Forge Co., 66 E Ohio, Chicago, Ill.

Forgings (German Silver)

Riverside Metal Co., Riverside, N. J.

Forgings (Golf)

Page-Storms Drop Forge Co., Springfield, Mass.

Forgings (Hollow)

Bethlehem Steel Co., South Bethlehem, Pa., &
100 B'way, New York

Forgings (Iron & Steel)

ALABAMA.

GADSDEN—Weller Rolling Mill & Forge Co.
HUNTSVILLE—Huntsville Fdy. & Machine
Works (Nolan & Jones, Props.), (Light &
Heavy)

MOBILE—Alabama Iron Works (Light & Heavy)

CALIFORNIA.

SAN FRANCISCO—Hammond, Jno. & Co., 2d
& Townsend

Pennington, G. W. Sons (Inc.)
Union Iron Works (Ship & Mining), 222
Market

CONNECTICUT.

BRIDGEPORT—Bridgeport Forge Co.
Farise Steel Co., (Steel Railroad & Machin-
ery)

HARTFORD—Billings & Spencer Co.
Premier Mfg. Co. (Carriage, etc.)

NEW BRITAIN—Bennett Tempering Co. (Light
Machine)

PLANTSVILLE—Smith, H. D. & Co. (Carriage)
SOUTHINGTON—Atwater Mfg. Co., (Carriage
& Specials)

DELAWARE.

WILMINGTON—Edge Moor Iron Co. (Also
Pressed Steel for Car Trucks, etc.)

GEORGIA.

SAVANNAH—Kehoe, Wm. & Sons (Heavy)
Rourke, Jno. & Sons (Heavy)

ILLINOIS.

CHICAGO—Ajax Forge Co., 138 Jackson boul
Block-Pollak Iron Co. (Railroad, etc.), First
National Bank bldg

Buda Foundry & Mfg. Co. (Special Track
Work), Railway Exchange bldg

Cambria Steel Co. (of Johnstown, Pa.),
"Railroad," 138 Jackson blvd

Carnegie Steel Co. (Steel only), The Rookery
Chicago Drop Forge & Foundry Co., Ken-
sington

Continental Bolt & Iron Works (Struc-
tural, etc.), 22d & Union

Crucible Steel Co. of America (Steel only
of all kinds), 64 S Clinton. Main Office,
Pittsburg, Pa.

DOBBIE FOUNDRY & MACHINE
Co. (Heavy Plate & Structural Work), 202
S Water. Works: Niagara Falls, N. Y.

(See adv. index, end of book)
Dunne, Geo. W. & Co., 689 Carroll av

Gould Coupler Co. (Car Couplers, etc.),
Rookery bldg

Granger's Drop Forge Works, 25 S Canal
Kropp, A. & Co. (Railroad, Ship, Bridge,
Bldg, etc.), 52 Law av

Lester, F. A. & Co. (Railroad), 84 Van-
buren

O'Leary, Arthur J. & Son Co. (Bars, Rods,
Bolts, Vises, Railway & Quarry Tools,
etc.), 132 W Lake

Pittsburg Forge & Iron Co. (Car, Locomo-
tive & Heavy), 419 Monadnock bldg.

Works, Pittsburg, Pa.

Union Drop Forge Co.
Vulcan Iron Works, Fulton & Irving av

Western Steel Car & Foundry Co. (All Kinds
for Railroads), Old Colony bldg

Willard Sons & Bell Co. (Axles, Railroad,
etc.), 98th & Erie av

Wishart, Jno. Machine Works (Light &
Heavy), 43 S Canal

EAST ST. LOUIS—St. Louis Steam Forge &
Iron Works (R. R. & Steamboat)

HARVEY—Buda Foundry & Mfg. Co.

MOUNT VERNON—Mount Vernon Car Mfg. Co.
PEORIA—Marcus, James V. (Car)

INDIANA.

ANDERSON—Anderson Forging Co. (Iron &
Steel)

EVANSVILLE—Mesker, Geo. L. & Co. (Struc-
tural Iron)

FORT WAYNE—Bass Foundry & Machine Co.
(Hammered Iron & Steel, also Car Axles,
etc.)

INDIANA HARBOR—Standard Forging Co.

IOWA.

DES MOINES—Des Moines Mfg. & Supply Co.
(Heavy)

KENTUCKY.

LOUISVILLE—Drummond Mfg. Co. (Vehicles,
Axles, etc.), 1228 W Main

LOUISIANA.

NEW ORLEANS—Bierce, Wm. W. (Ltd.), Hen-
nen bldg

Connell, J. D. Iron Works Co. (Marine, etc.)
Swoop, Julian M. (Light & Heavy), 913
Girod

MAINE.

BANGOR—Hathorn Mfg. Co. (Small)
PORTLAND—Portland Co. (Locomotive, Car,
Engine, etc.)

MARYLAND.

BALTIMORE—Frank, Ernest T. & Son, 642 W
Pratt

Maryland Steel Co. (Marine), Sparrows pt
NATIONAL SUPPLY CO. (Rod), 7
W Lombard. (See adv. index, end of book)

South Baltimore Steel Car & Foundry Co.
(Iron & Steel, Railroad, etc.)

CUMBERLAND—Cumberland Steel Co.

MASSACHUSETTS.

ARLINGTON HEIGHTS—Jones, E. J. Co.
(Small Steel, Brass, etc.)

BOSTON—Boston Forge Co. (Railroad, Marine
& Electric), 340 Maverick, E. B.

Eastern Forge Co., 70 Kilby
Knapp, Jas. M. (Steel), 12 Bowker

McLauthlin, Geo. T. Co., 120 Fulton
New England Bolt & Nut Co. (All Kinds),
263 Atlantic av

CAMBRIDGEPORT—Barbour - Stockwell Co. (Light & Heavy)
CANTON—Kinsley Iron & Machine Co. (Iron Only, Axles, Wagons, etc.)
GLOUCESTER—Cape Ann Anchor Works
LOWELL—Turner, John D.
QUINCY—Fore River Ship Building Co. (Heavy)
SOUTH EGREMONT—Dalzell Axle Co. (Carriage & Special)
SPRINGFIELD—Ford, H. (riage & Special)
 Wason Mfg. Co. (For Steam & Electric Railroads)
TAUNTON—Taunton Locomotive Mfg. Co.
WORCESTER—Wyman & Gordon (All Kinds), 30 Bradley

MICHIGAN.

DETROIT—**ANDERSON FORGE & MACHINE** Co. (Machine), 271 Guoin. (See adv. index, end of book)
 Detroit Forging Co. (Carriage)
 Great Lakes Engineering Works (Marine, etc.), Rivard & Detroit River
 Hayes Mfg. Co., 773 Bellevue av
 Lauer, Jno. Mach. Co., 108 St. Antoine
 Michigan Bolt & Nut Works, ft Meldrum av
JACKSON—Lewis Spring & Axle Co. (Axles, etc.)
MANISTEE—Manistee Iron Works Co. (Railroad)
SAGINAW—Koehler Bros. & Heavy)
SAULT SAINT MARIE—Hickler Bros.

MISSOURI.

ST. LOUIS—American Car & Foundry Co. (Car, Railroad & Merchant), 706 Chestnut
 Western Forge Co., 520 Olive

MONTANA.

BUTTE—Western Iron Works

NEBRASKA.

OMAHA—Paxton & Vierling Iron Works

NEW HAMPSHIRE.

LAKEPORT—Cole Mfg. Co. (Light & Heavy)
NASHUA—Eastern Forge Co.

NEW JERSEY.

CAMDEN—Camden Forge Co., "Railway Forgings"
HARRISON—Crucible Steel Co. of America (Heavy)
HIGH BRIDGE—Taylor Iron & Steel Co. (Car & Locomotive Axles, Shafts, etc.)
HOBOKEN—Consolidated Iron Works
 New York Switch & Crossing Co. (Railroad)
 Union Iron Works (Light & Heavy)
JERSEY CITY—Smith, Theo. & Sons Co. (Heavy), ft. of Essex
NEWARK—Currier, Cyrus & Sons
 Hewes & Phillips Iron Works
 Strieby & Foote Co. (Carriage, Bicycle & Auto, etc.), 301 Ogden
PATERSON—Douglass, Edward
PLAINFIELD—New Jersey Foundry & Mach. Co. (Light & Heavy)

NEW YORK.

ALBANY—Townsend Furnace & Machine Shop Co.
BATAVIA—Baker Gun & Forging Co. (Gun)
BUFFALO—Brennan, Richard, 35 River
 DeLaney Forge & Iron Co., 300 Perry
 Iroquois Iron Works (Steam Engine, Crank Shafts, Rods, etc.)
 Lake Erie Engineering Works (Heavy)
 Sizer Forge Co. (Locomotive, Iron & Steel Drawing Axles & Marine & Engine), 38 Larkin
 Wurtz & Son (Railroad & Boiler), 23 Lloyd
CORTLAND—Cortland Forging Co. (Carriage)
HILLBURN—Ramapo Iron Works (Railroad, etc.)
LANSINGBURG—See Troy
NEWBURGH—Turl's, Jno. Sons (Inc.)

NEW YORK CITY.

Borough of Brooklyn.

BROOKLYN—**BLISS, E. W. CO.** (Seamless Steel, etc.), 19 Adams. (See adv. index, end of book)
 Columbia Engineering Works (Marine), c Pioneer & Imlay
 Columbia Machine Works & Malleable Iron Co. (Light & Heavy), 269 Chestnut

Fulton Foundry & Machine Works (Machinery, etc.), 23 Furman
Gill, Phil. H. & Sons (Forging & Piping), Lorraine & Otsego
Hay-Budden Mfg. Co. (Dies, Weldless Rings, Spinning Chucks), 254 N Henry
McGibbon-Roy Eug. & Iron Working Co., 14 Columbia
MERRILL BROS., 465 Kent av. (See adv. index, end of book)
Treadwell, M. N. & Co., 90 West
WILLIAMS, J. H. & CO., 150 Hamilton av. (See adv. index, end of book)

Boroughs of Manhattan & Bronx

NEW YORK—Acton Valley Forge Co., 136 Liberty
 American Forge & Iron Co., 140 W 42d
 American Car & Foundry Co. (Car, Railroad & Merchant), 25 Broad
 Baldwin Steel Co. (Steel Only), 133 Reade
 Bethlehem Steel Co. (Heavy of all Kinds), 100 B'way. Works, S. Bethlehem, Pa.
 Cambria Steel Co. (of Johnstown, Pa.) Railroad, 71 B'way
 Carbon Steel Co. (of Pittsburgh, Pa.) (Axles, Crank Pins, Piston Rods, etc.), 26 Cortlandt
 Carnegie Steel Co. (of Pittsburgh, Pa.) (Steel only), 71 B'way
 Crucible Steel Co. of America (Steel Only of all Kinds), 71 B'way
DOBBIE FOUNDRY & MACHINE Co. (Heavy Plate & Structural Works), 82 Warren. Works, Niagara Falls, N. Y. (See adv. index, end of book)
 Edge Moor Iron Co. (of Edge Moor, Del.) (also Pressed Steel for Car Trucks), 1123 B'way
 Gould Coupler Co. (Car Couplers, etc.), 1 W 34th
 Greenlie, Wyatt & Co. (Heavy & Light), 499 Water
 Illingworth, Jno. Steel Co. (Crucible & Open Hearth Steel), 25 Cliff
 McDougall & Potter Co. (Inc.), 606 W 55th
 Midvale Steel Co. (of Phila., Pa.) (Locomotive, Car, Gun, etc.), of Steel Only, 111 B'way
 Penn Steel Co. (of Steelton, Pa.) (Heavy Steel), 71 B'way. Works: Steelton, Pa.
 Phoenix Iron Co., 49 William. Works, Phoenixville, Pa.
 Pilling & Crane, 71 B'way
 South Baltimore Steel Car & Foundry Co. (Iron & Steel Railroad, etc.)
 Treadwell, M. H. & Co., 95 Liberty
 Turl's, Jno. Sons (Inc.), 26 Cortlandt. Works: Newburgh, N. Y.
 Watson, Thos., 551 W 35th
(END OF NEW YORK CITY.)
NIAGARA FALLS—**DOBBIE FOUNDRY & MACHINE** Co. (Heavy Plate & Structural Work). (See adv. index, end of book)
 Ramapo Iron Works (Railroad, etc.)
OGDENSBURG—Nash Bros. & Co. (Steam Forging)
UNION—Union Forging Co.
UTICA—Weston-Mott Co. (Carriage & Bike Wagon)

OHIO.

CINCINNATI—Block-Pollak Iron Co. (Railroad, etc.), Carthage
 Queen City Forging Co. (for Carriage Builders, etc.), Dumont & Tennyson
CLEVELAND—American Ship Building Co. (Heavy, Marine, etc.)
 Avery Stamping Co. (Steel), Lake & Coe,
 Blakeslee Foundry Co.
 Cleveland City Forge & Iron Co. (Heavy, etc.), 67 Case av
 Cleveland Mach. & Mfg. Co., 4944 Hamilton av
 Crucible Steel Forge Co. (Dies & Die Tempering, Shaft Cranks, etc.), 5814 E Prospect, S. E.
 Dyson, Jos. & Sons (for Machine Tools, including Spindles, Shafts, Gear Blanks, Thrust Collars, etc.)
 Horsburg Forging Co., 5114 Hamilton
 McMyler Mfg. Co. (Heavy), Columbus nr Leonard
 Machinery Forging Co., Hamilton & Marquette
 Ohio Machine & Boiler Co., 108 River,
 Otis Steel Co. (Steel Only, Locomotive, Car, etc.), cor Lake & Lawrence
COLLINWOOD—Browning Engineering Co. (Heavy)
COLUMBUS—Columbus Bolt Works (Carriage, etc.)
 Columbus Forge & Iron Co. (Heavy & Light Forgings in Multiples)

Columbus Machine Works & Malleable Iron Co., 167 Chestnut, Brooklyn, N. Y.
DAYTON—American Fence & Forge Co.
 Plocher, Andrew
FREMONT—Herbrand Co. (Carriage, etc.)
SANDUSKY—Klotz Machine Co. (Heavy)
SEBRING—Buckeye Forging & Specialty Co.
TOLEDO—**HEARTLEY MACHINE**, Variety Iron & Tool Works (Punch & Die). (See adv. index, end of book)
 Toledo Foundry & Machine Co., 202 Cherry
YOUNGSTOWN—Mahoning Foundry & Machine Co.
 Youngstown Forge Co.

PENNSYLVANIA.

ALLEGHENY—Harris, Wm. & Son
BRADDOCK—Pittsburg Steel Shafting Co. (Forged Steel Power Transmission Goods)
BRACKENRIDGE—Solid Steel Tool & Forge Co. (Air Brake, Car, Wagon, etc.)
BRAEBURN—Braeburn Steel Co. (Steel Only)
BURNHAM—Standard Steel Works (Steel Locomotive)
BUTLER—Kesselman & Co. (Heavy)
CARNEGIE—Columbia Bridge Co. (Shafts) Damascus Nickel Steel Co.
CATASAUQUA—Lehigh Car Wheel & Axle Works (Railroad, etc.)
CATAWISSA—Catawissa Car & Foundry Works (Car, etc.)
CONNELLSVILLE—Connellsville Machine & Car Co. (Light & Heavy)
CORRY—McInnes Steel Co. (Machinery & Tool Steel Shapes Forged to Order)
EDDYSTONE—Tindel-Morris Co. (Steel only, Crankshaft & Finished Forging)
ELLWOOD CITY—Steel Car Forge Co. (Car & Locomotive)
 Tindel-Morris Co. (Steel Only, Crankshafts & Finished Forgings)
ERIE—Erie Car Works (Car, etc.)
 Erie Forge Co. (Ltd.) (Hammered)
 Harrington Forge Co. (Shafts, Cranks, etc.)
HARRISBURG—Harrisburg Foundry & Machine Works
HOPE CHURCH—Monongahela Iron & Steel Co. (Hooks & Forgings for Chains, etc.)
JOHNSTOWN—Cambria Steel Co. (Railroad)
 Lorain Steel Co. (Steel)
LATROBE—Latrobe Steel Co.
LEBANON—American Iron & Steel Mfg. Co. Treadwell, M. H. & Co. (Car, etc.)
MECHANICSBURG—Wilcox, D. Mfg. Co. (Carriages & Special of all Kinds)
MILTON—Milton Mfg. Co. (Car Axles, etc.)
MONONGAHELA CITY—Liggett Spring & Axle Co. (Buggy & Wagon Axles, etc.)
NEW CASTLE—New Castle Forge & Bolt Co. (Car, Mine, Agricultural, etc.)
PHOENIXVILLE—Phoenix Iron Co. (Heavy)
PHILADELPHIA—American Bridge Co. (Railroad, etc.), Penna bldg
 Cambria Steel Co. (Railroad), Arcade bldg
 Carnegie Steel Co. (Steel only), Penna bldg
 Cramp, Wm. & Sons Ship & Engine Bldg Co. (Marine, etc.)
 Cresson, Geo. V. Co., Allegheny av W of 17th
 Damascus Nickel Steel Co., Phila. Bourse
 Hoopes & Townsend Co. (Car, etc.), 1330 Buttonwood
 Iroquois Iron Works (Steam Engine, Crank Shafts, Rods, etc.), Land Title bldg
 Midvale Steel Co. (Marine, Locomotive, Car, Gun, etc., of Steel Only), Nicetown
 Morris, Herbert (Crankshafts, Carriage, Wagon, etc.), Betz bldg
 Morris, P. Hollingsworth (Iron & Steel), 1501 S Front
 National Bolt Works (Structural, etc.), 1630 N 9th
 Penna. Steel Co. (Heavy Steel), Girard bldg
 Philadelphia Forge Co. (Steel, all Kinds),
 Phoenix Iron Co., 410 Walnut Tacony
 Standard Steel Works (Steel Locomotive), Harrison bldg
 Stortz, Jno. & Son (Small), 210 Vine
 Tioga Steel & Iron Co., 52d & Gray's av (of all descriptions)
PITTSBURG—Allegheny Forging Co., Frick bldg
 Carbon Steel Co. (Axles, Crank Pins, Piston Rods, etc.), 32d & Smallman
 Carnegie Steel Co. (Steel Only), Carnegie
 Columbia Bridge Co. (Shafts) bldg
 Crucible Steel Co. of America (Steel Only of all Kinds), Frick bldg
 Fort Pitt Forge Co. (Rods, Bolts, Rivets, etc.)
 Heppenstall Forge & Knife Co. (Miscellaneous), Pittsburg, Pa.
 Jones & Laughlin Steel Co., 3d av & Try
 Lanz, M. & Sons, 101 S 29th

McKay, Jas. Co. (Light Forgings; also Railroad Forgings), Germania Bank bldg, 421 Wood. (Works: McKees Rocks, Pa.)
Monongahela Iron & Steel Co. (Hooks & Forgings for Chains, etc.)

OIL WELL SUPPLY CO., 215
Water. (See adv. index, end of book)
Piling & Crane, Farmers' Bank bldg
Pittsburg Forge & Iron Co. (Car. Locomotive & Heavy), 1003 Penn av
Pittsburg Mfg. Co., 28th & Railroad
Pittsburg Rivet Co. (Rivets, Bolts, etc.)
Pittsburg Screw & Bolt Co., 25th & Liberty av

Steel Car Forge Co. (For Cars of all Kinds)
RANKIN—Columbia Bridge Co. (Shafts)
Duquesne Forge Co.
READING—Carpenter Steel Co. (Steel & Gun)
Reading Iron Co. (Heavy Marine Engines, etc.)

SHAMOKIN—Mullen, Jno. & Son (Mine, etc.)
SOUTH BETHLEHEM—Bethlehem Steel Co. (Heavy of all Kinds)

STEELTON—Penna. Steel Co. (Heavy Steel)
TARENTUM—Baker, Jas. H. Mfg. Co. (Car. Wagon, etc.)

TITUSVILLE—Titusville Forge Co. (Light & Heavy, Shapes of Every Description & Roll Forgings, etc.)

WAYNESBORO—Frick Co.
WILKES-BARRE—American Forge & Iron Co.
Sheldon Axle Co. (Axles)
Vulcan Iron Works

RHODE ISLAND.

PROVIDENCE—Rhode Island Tool Co. (For the Trade)

SOUTH CAROLINA.

CHARLESTON—Charleston Iron Works (Mach. & Marine)
Riverside Iron Works (Marine, etc.)

TENNESSEE.

CHATTANOOGA—Chattanooga Car & Foundry Co.
KNOXVILLE—Devis, T. B. & Son (Machine, etc.)
Knoxville Foundry & Machine Co. (Heavy)

TEXAS.

DALLAS—Mosber Mfg. Co. (Heavy)

VIRGINIA.

NORFOLK—Godwin, Thos. W. & Co. (Marine, etc.)
RICHMOND—Cameron-Tennant Machine Works (Light & Heavy)
Old Dominion Iron & Nail Works Co. (Building & Small Specials)
Richmond Forging Co.
Tredegar Co. (Car & Machinery)

WASHINGTON.

SEATTLE—Jones, C. C. & Co. (R. R. & Marine)
Moran Bros. Co. (Marine, etc.)

WISCONSIN.

MILWAUKEE—Wisconsin Bridge & Iron Co., Pabst bldg

Forgings (Liquid Pressed)

Bethlehem Steel Co., Bethlehem, Pa., & 100 B'way, New York

Forgings (Manganese Bronze)

Cramp, Wm. & Sons Ship & Engine Bldg. Co., Philadelphia, Pa.
Wyman & Gordon Worcester, Mass.

Forgings (Nickel Steel)

American & British Mfg. Co., Bridgeport, Conn.
Anderson Forge & Machine Co., Detroit, Mich.
Bethlehem Steel Co., South Bethlehem, Pa., & 100 B'way, New York
Billings & Spencer Co., Hartford, Conn.
Cambria Forge Co., Johnstown, Pa.
Carbon Steel Co., Pittsburg, Pa., & 26 Cortland, N. Y.
Carnegie Steel Co., Carnegie bldg., Pittsburg, Pa.
Columbus Forge & Iron Co., Columbus, O.
Crescent Forgings Co., Oakmont, Pa.

Crucible Steel Co. of America, Frick bldg., Pittsburg, Pa.

Funk Engineering Co. (German Nickel Chrome Steel), 39 14th, Hoboken, N. J.

Keystone Drop Forge Works, Chester, Pa.
Machinery Forging Co. (for Transmission Gears Valve Stems), Cleveland, O.

Midvale Steel Co., Nicetown, Philadelphia, Pa.
Moore Drop Forge Co., Springfield, Mass.

Nickel Steel & Forge Co., Westinghouse bldg., Pittsburg, Pa. Works, Carnegie, Pa.

Page, Storms Drop Forge Co., Springfield, Mass.
Prosser, Thos. & Son, 15 Gold, New York City

Seward, The M. & Sons Co., New Haven, Conn.
Tindel-Morris Co., Eddystone, Pa., & Ellwood City, Pa.

Tioga Steel & Iron Co., 52d and Gray's av
Union Drop Forge Co., 64 Ohio, Chicago, Ill.
Warren Axle & Tool Co., Warren, Pa.

Western Malleable Steel Co., Detroit, Mich.

Forgings (Pressed Steel)

Edge Moor Iron Co. (For Car Trucks, etc.), Wilmington, Del.
Worcester Pressed Steel Co., Worcester, Mass.

Forgings (Seamless Steel)

BLISS, E. W. CO. (Bowls, Bottles, Collars & Special Shapes), 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)
Carpenter Steel Co., 100 B'way, New York City
Jones, E. J. Co., Arlington Heights, Mass.

Forgings (Telegraph & Telephone Pole)

New Castle Forge & Bolt Co., New Castle, Pa.

Forks (Ballast)

American Fork & Hoe Co., Cleveland, O.
American Shovel & Stamping Co., Lorain, O.
Continental Tool Co., Frankfort, N. Y.
Hubbard & Co., Pittsburg, Pa.
Iowa Farming Tool Co., Fort Madison, Ia.
Withington & Cooley Mfg. Co., Jackson, Mich.

Forks (Brake)

Dayton Malleable Iron Co. (The Kelly), Dayton, O.

Forks (Coke)

American Fork & Hoe Co., Cleveland, O. (For branch offices, see end of book)
Brown Hinman & Huntington Co., Memphis, Tenn.
Continental Tool Co., Frankfort, N. Y.
Griffith, Geo. Co., 515 Locust, Phila., Pa.
Withington & Cooley Mfg. Co., Jackson, Mich.

Forks (Hand)

American Fork & Hoe Co. (Coal, Coke, Beet, Barley, Corn, Potato, Straw, Stone, Stable, Tanner, Manure, Header, Hay, Sluice, Spading, Vegetable, Scoop, etc.), Main Office, Cleveland, O.
Brown, Hinman & Huntington Co. (Hand, Hay, Spading, Manure, etc.), Memphis, Tenn.
Continental Tool Co. (Hay, Manure, Spading, Header, Barley, Stone, Coke, Coal, Sluice, Beet, Potato, Digging, Tanners, etc.), Frankfort, N. Y.

Farrell, Jno. (Hay), Newton, N. J.
Harriman Hoe & Tool Co. (Hay, Manure, Spading, "Razor Edge"), Harriman, Tenn.
Iowa Farming Tool Co., Ft. Madison, Iowa
Peck, Clark & Co., Brookfield, Vt.

WHITMAN & BARNES MFG. CO.
(Hay), West Pullman, Chicago, Ill. (See adv. index, end of book)

Withington & Cooley Mfg. Co. (Hay, Manure, Barley, Spading, Vegetable, Beet Root, Coke, etc.), Jackson, Mich.

Forks (Harpoon, Hay)

Milwaukee Hay Tool Co., Layton Park, Milwaukee, Wis.
Swineford, G. A. Co. ("Neillis" "Walker"), Canton, O.

Forks (Horse Hay)

Eureka Mower Co., Utica, N. Y.
Farrell, John, Newton, N. J.
Hunt, Heim, Ferris & Co. (Harpoon & Grapple), Harvard, Ill.
Loudon Machinery Co., Fairfield, Ia.
Milwaukee Hay Tool Co. (Grapple), Milwaukee, Wis.
Myers, F. E. & Bro., Asbland, O.
Ney Mfg. Co., Canton, O.
Ney, V. L. Co., Canton, O.
Porter, J. E. Co., Ottawa, Ill.
Rieker, W. G., Rochester, N. Y.
Rock River Machine Co., Janesville, O.
Stowell Mfg. & Foundry Co., S. Milwaukee, Wis.
Superior Drill Co., Springfield, O.
Syracuse Chilled Plow Co., Syracuse, N. Y.
U. S. Wind Engine & Pump Co., Batavia, Ill.
WHITMAN & BARNES MFG. CO.
Chicago, Ill. (See adv. index, & branch offices, end of book)
Wisconsin Hay Tool Co., Ottawa, Ill.

Forks (Rail)

ANDERSON, W. H., TOOL & SUPPLY
Co., 14 Macomb, Detroit, Mich. (See adv. index, end of book)
Beall Bros. (Inc.), Aiton, Ill.
Evansville Tool Works, Evansville, Ind.
Hubbard & Co., Pittsburg, Pa.
Iron City Tool Works (Steel), Pittsburg, Pa.
Oliver Iron & Steel Co., Pittsburg, Pa.
Pittsburg Tool & Drop Forge Co. ("Cheswick"), Works, Cheswick, Pa.
Union Drop Forge Co., Chicago, Ill.
Verona Tool Works (Steel), Verona, Pa., & Pittsburg, Pa.

Forks (Rising)

ANDERSON, W. H., TOOL & SUPPLY
Co., 14 Macomb, Detroit, Mich. (See adv. index, end of book)
Billings & Spencer Co. (Drop Forged), Hartford, Conn.
Columbus Handle & Tool Co., Columbus, Ind.
Dicke Tool Co., Downers Grove, Ill.
Klein, Matbias & Sons, 87 W Van Buren, Chicago, Ill.
Nagel, W. G. Electric Co., Toledo, O.
Oshkosh Logging Tool Co., Oshkosh, Wis.
Roberts, Geo., 1st & Liberty av, Pittsburg, Pa.

Forks (Tedder)

Gibson, W. D. Co., Chicago, Ill.
Harrow Spring Co., Kalamazoo, Mich.
Mason, F. C. & Co., St. Johns, Mich.

Forks (Trolley)

Central Union Brass Co., 11th & Mulianpby, St. Louis, Mo.
Electric Railway Equipment Co., 1938 W Stb, Cincinnati, O.
NUTTALL, R. D. CO., Pittsburg, Pa.
(See adv. index, end of book)
Star Brass Works ("Kalamazoo"), Kalamazoo, Mich.

Forks (Vegetable)

Browne & Dowd Mfg. Co., Meriden, Conn.
Cassady-Fairbank Mfg. Co., 6106 La Salle, Chicago, Ill.

Fossil Meal

Hammili & Gillespie, 240 Front, New York
Salomon, L. A. Bro., 216 Pearl, New York

Foundation Soundings for Heavy Buildings, Bridges, Etc.

(See also Caisson Foundations)
Cole Bros., 108 Fulton, New York
Gregory, Elisha, 48 Church, New York
O'Rourke Engineering Construction Co., 1 W 34th, New York
Phillips & Worthington, 136 Liberty, New York
Robinson, J. E., 13 S 45th, Philadelphia, Pa.

Founders (Brass)

(See Castings, Brass; also Plumbers' Brass Goods; also Valve Mfrs.; also Machinists & Founders, etc.)

Founders (Iron)

(See Machinists & Founders)

Founders (Malleable Iron) ALABAMA.

ANNISTON—Western Steel Car & Foundry Co. (of Chicago)

CONNECTICUT.

BRANFORD—Hammer & Co. (Hardware Specialties, etc.)
Malleable Iron Fittings Co. (Air Furnace Refined)

BRIDGEPORT—Bridgeport Malleable Iron Co. (Refined)

MIDDLETOWN—Wilcox, Crittenden & Co. (Small, to Order)

MOUNT CARMEL—Woodruff, Walter W. & Sons Co. (Carriage & Miscellaneous)

NAUGATUCK—Naugatuck Malleable Iron Co. (All Kinds)

NEW BRITAIN—Malleable Iron Works (Iron Castings to Order)

Vulcan Iron Works (all kinds)

NEW HAVEN—Fitch, W. & E. T. Co. (Small to order)

TERRYVILLE—Terry, Andrew Co. (Keys, Hinges & Small)

DELAWARE.

WILMINGTON—Wilmington Malleable Iron Co.

ILLINOIS.

CHICAGO—Chicago Malleable Castings Co., W 120th, c Centre av

Chicago Malleable Iron Co., Blue Island & Western avs

Orane Co. (Gas, Steam & Water Fittings), 10 N Jefferson

Gould Coupler Co., The Rookery

Illinois Malleable Iron Co. (Pipe, Fittings & general), 537 Diversey boul

International Harvester Co. of America (All Kinds), 7 Monroe

National Malleable Castings Co. (general), W 26th & Blue Island av

Pratt, Wm. E. Mfg. Co., 91 Lake

Western Steel Car & Foundry Co., Old Colony bldg

EAST MOLINE—Unlon Malleable Iron Co.

EAST ST. LOUIS—Missouri Malleable Iron Co. (Carriage, Railroad, Street Car, etc.)

FRANKLIN PARK—Forster, Waterbury & Co. (Gas, Steam & Water Fittings, etc.)

KEWANEE—Western Tube Co. (Gas, Steam & Water Fittings, etc.)

ROCKFORD—Rockford Malleable Iron Work (Machinery & General)

ST. CHARLES—Moline Malleable Iron Co. (All Kinds)

INDIANA.

INDIANAPOLIS—National Malleable Castings Co. (general), Mich. & Holmes avs

MARION—Marion Malleable Iron Works

MUNCIE—Whiteley Malleable Castings Co. (Agricultural, Railroad, etc.)

TERRE HAUTE—Terre Haute Malleable & Mfg. Co.

IOWA.

FAIRFIELD—Iowa Malleable Iron Co.

MARYLAND.

BALTIMORE—Baltimore Malleable Iron & Steel Casting Co. (Railroad, Machinery, etc.), Charles c Wells

MASSACHUSETTS.

BOSTON—Laconia Car Co. Works (For Electrical Work), 100 Boylston

Livermore, Homer F. (all kinds), 85 Pearl

EASTON—Belcher Malleable Iron Co. (Machinery, Agricultural, etc.)

WORCESTER—Arcade Malleable Iron Co. (Castings of every description)

MICHIGAN.

ALBION—Albion Malleable Iron Co. (Agricultural, Carriages, etc.)

DETROIT—Buhl Malleable Co.

Michigan Malleable Iron Co. (Car, Agricultural, Carriages, etc.), St. Clair & Crossley avs, Delray

GRAND RAPIDS—Grand Rapids Malleable Co. (Railroad, etc.)

MUSKEGON—Standard Malleable Iron Co. (Agricultural, etc.)

PORT HURON—Port Huron Engine & Thresher Co.

MISSOURI.

ST. LOUIS—St. Louis Car Co. (Car & R. R.), 8000 N. Bevas, St. Louis, Mo.

St. Louis Malleable Casting Co., 7701 N Conduit av

NEW HAMPSHIRE.

LACONIA—Laconia Car Co. Works (for Electrical Work)

NEW JERSEY.

NEWARK—Barlow Arthur E., 28 Orange.

Barnett, Oscar Foundry Co. (Custom Work, Light & Medium), 105 Hamilton

Meeker Foundry Co. (All Kinds up to 200 lbs.), 95 Clay

TRENTON—Trenton Malleable Iron Co. (all kinds)

NEW YORK.

AUBURN—International Harvester Co. of America (All Kinds) Osborne Plant.

BROOKLYN—(See New York City, Borough of Brooklyn)

BUFFALO—Acme Steel & Malleable Iron Works, 245 Military rd

Pratt & Letchworth Co. (also steel castings)

DEPEW—Gould Coupler Co.

HOOSICK FALLS—Wood, Walter A., Mowing & Reaping Machine Co. (for own consumption)

NEW YORK CITY.

Borough of Brooklyn.

BROOKLYN—Columbia Machine Works & Malleable Iron Co., 269 Chestnut

Boroughs of Manhattan & Bronx

NEW YORK—Ajax Foundry & Machine Co., 136 Liberty

American Malleable Co., 170 B'way

Gould Coupler Co., 1 W 34th

Toop, Geo. H., 2572 Park av

(END OF NEW YORK CITY)

ORISKANY—Oriskany Malleable Iron Co., Ltd. (all kinds, Light & Heavy)

SPUYTEN DUYVIL—Johnson, Isaac G. & Co. (all kinds)

SYRACUSE—Frazer & Jones Co. (saddlery, agricultural & general), 351 W Fayette

TROY—Troy Malleable Iron Co. (Railroad, Car, Locomotive, Track Equipment & Electrical Supplies)

WESTMORELAND—Westmoreland Malleable Iron Co. (Ltd.) (Agricultural, Carriage, Saddlery & General)

OHIO.

CANTON—Canton Malleable Iron Co. (Saddlery & General Castings)

Elbel Co. (Saddlery Hardware & Castings)

CINCINNATI—Haven Malleable Casting Co. (Carriage Hardware & Custom), Knowlton & C. H. & D. Ry.

CLEVELAND—CHISHOLM & MOORE Mfg. Co. (Light & General, Smooth & Well Annealed Castings). (See adv. index, end of book)

Eberhard Mfg. Co. (Saddlery Only), Tennyson & C. & P. R. R.

National Malleable Castings Co. (General), 92 Platt

COLUMBUS—Buckeye Steel Castings Co. (Car Couplers, Chain Links & General)

DAYTON—Dayton Malleable Iron Co. (For Railroad & Car Builders)

MANSFIELD—Ohio Brass Co.

SPRINGFIELD—American Seeding Machine Co. (Agricultural Implements Only)

Springfield Malleable Iron Co. (Small & Railroad Castings)

TOLEDO—National Malleable Castings Co.

ZANESVILLE—Zanesville Malleable Co.

PENNSYLVANIA.

BERWICK—Berwick Malleable Co.

EASTON—Sterlingworth Railway Supply Co. (Refined Air Furnace)

ERIE—Erie Malleable Iron Co. (All Kinds)

Jarecki Mfg. Co. (Fittings, etc., for Steam, Gas & Water)

McKEES ROCKS—Fort Pitt Malleable & Grey Iron Co.

Penna Malleable Co. (Small & Large R. R. Castings a Specialty)

MEADVILLE—Meadville Malleable Iron Co. (Railroad Castings a Specialty)

WE PAY CASH

WE HAVE DEVISED A PLAN TO PAY YOU CASH FOR GIVING CREDIT TO HENDRICKS' COMMERCIAL REGISTER, WHEN ASKING QUOTATIONS FROM FIRMS WHOSE NAMES ARE CLASSIFIED THEREIN.

WE BELIEVE THAT HENDRICKS' COMMERCIAL REGISTER IS USED BY MORE BUYERS FOR PURCHASING PURPOSES THAN ANY OTHER PUBLICATION EVER ISSUED.

BUT OUR PROBLEM IS: HOW CAN WE PROVE IT?

WE HAVE DECIDED TO PAY FOR THE EVIDENCE.

WHEN WRITING A FIRM WHO IS LISTED IN HENDRICKS' COMMERCIAL REGISTER, ATTACH THE RED COUPON TO YOUR LETTER, FILL OUT THE WHITE ONE AND MAIL IT TO US, AND WE WILL REMIT FIVE CENTS IN CASH FOR EACH COUPON SO USED.

WHEN YOU ARE OUT OF COUPONS WE WILL FURNISH MORE.

S. E. HENDRICKS COMPANY,

74 LAFAYETTE STREET, NEW YORK.

BRUSHES**HIGH GRADE
FOUNDRY SUPPLIES****BROOMS**

*Brushes and
Brooms for
Factories, Mills,
Railroads, Etc.*

THE OSBORN MANUF'G CO.

CLEVELAND, OHIO.

*Everything for
the Foundry
and all
the very best.*

WRITE FOR ILLUSTRATED CATALOG.

PHILADELPHIA—Bancroft & Co., 5th and Chestnut
Devlin, Thos. Mfg. Co. (Carriage, Saddlery, Agricultural, Pipe Fittings, etc.), 3d & Lehigh av
Flagg, Stanley G. & Co. (Small Railroad Machinery, Hardware, Pipe Fittings, etc.), 424 N 19th
Phila. Hardware & Malleable Iron Works (Light), 9th & Jefferson
Sterlingworth Railway Supply Co. (Refined Air Furnace), North American bldg
PITTSBURG—Fort Pitt Malleable Iron Co.
McConway & Torley Co. (Car Couplers & R. R. Castings, etc.), 48th & A. V. R. R.
OIL WELL SUPPLY CO., 215
Water. (See adv. index, end of book)
Penna. Malleable Co. (Small & Large R. R. Castings a Specialty), Farmers' Bank bldg
Phoenix Steel Co., Inc., Putnam & P. R. R.
Pittsburg Malleable Iron Co. (Air Brakes, fittings, Electric Motor Gears & Miscellaneous), 34th and Smallman
STOWE—Flagg, Stanley G. & Co. (See Philadelphia, Pa.)
YORK—York Mfg. Co. (all kinds)

RHODE ISLAND.

HILLS GROVE—Rhode Island Malleable Iron Works (All Kinds)

TENNESSEE.

CHATTANOOGA—Ross-Meehan Foundry Co. (1 oz. to 50,000 lbs.)

WEST VIRGINIA.

POINT PLEASANT—West Virginia Malleable Iron Co.

WISCONSIN.

BEAVER DAM—Beaver Dam Malleable Iron Co. (All Kinds)

MILWAUKEE—Milwaukee Hay Tool Co.
Milwaukee Malleable & Grey Iron Works, Layton Park

Northwestern Malleable Iron Co. (Agricultural, Car, etc.), 766 Park

South Side Steel & Malleable Casting Co., Milwaukee, Wis.

Western Malleable & Gray Iron Mfg. Co., 139 Burrell

Wisconsin Malleable Iron Co., S Bay & Mound

RACINE—Belle City Malleable Iron Co. (Railroad Castings, etc.)

Lakeside Malleable Casting Co.
Racine Malleable & Wrought Iron Co. (Wagon, Carriage, Saddlery, Hardware, etc.)

SOUTH MILWAUKEE—Stowell Mfg. & Foundry Co. (Light Castings for all Purposes)
WAUKESHA—Waukesha Malleable Iron Co. (Farm Implements, Logging Tools, etc.)
WEST ALLIS—West Allis Malleable Iron & Chain Belt Co.

***Foundry Clay**

MAURER, HENRY & SON, 420 E 23d, New York, & Penna bldg, Phila., Pa. W'ks: Maurer, N. J. (See adv. Front Inside Cover)
RUTLAND FIRE CLAY CO., Rutland, Vt. (See adv. index & branch offices, end of book)

Foundry Facings & Supplies

Blackstone Coal Mining Co. ("Facings"), Valley Falls, R. I.
Brown, L. S. Charcoal Co., Springfield, Mass.
Brass Foundry Supply Co., Newark, N. J.
Buffalo Foundry Supply Co. ("Columbia" Facings, etc.), 339 Babcock, Buffalo, N. Y.
Cohutta Talc Co. (Cream Soapstone Facings), Spring Place, Ga.
Crescent Novelty Mfg. Co. (Facings, Talc, etc.), Chattanooga, Tenn.
Cutter, Woods & Stevens Co. (Tools & Supplies), 70 Pearl, Boston
Detroit Fdry. Supply Co., Detroit, Mich.
DIXON, JOS. CRUCIBLE CO. (Facings, etc.), Jersey City, N. J. (See adv. index & branch offices, end of book)
Doggett, Stanley (Mrs.' Agts.) (Soapstone Foundry Facings), 101 Beekman, New York
Elliott, Benj. G. (Facings), 33 Tehama, San Francisco, Cal.
Etting, Edw. J. (Mrs.' Agt.), Harrison bldg, Philadelphia, Pa.
Foundry Equipment Co., 12 Pearl, Boston
Gartside, W. N., Richmond, Ind.
Gautier, J. H. & Co. (Graphite), Jersey City
Hill & Griffith Co., C. H. & D. R'y, north of Gest, Cincinnati, O.
Hoffman, T. T. (Facings), Bloomsburg, N. J.
Hilsley, Doubleday & Co. (Facings, etc.), 229 Front, N. Y.
Jackson, E. S. & Co. (Facings & Supplies), 316 W Pearl, Cincinnati, O.
Jones, Enos F. Chemical Co. (Facings, etc.), 352 Wash'n, New York
Kelly, Thos. P. & Co. (Plumbago, Ceylon, Black Lead Prepared, Charcoal, etc.), 544 W 22d, New York
Larkin, M. D., Supply Co.
McCormack, J. S. Co. (Facings, etc.), 25th & A. V. Ry, Pittsburg, Pa.
Meighan, John A. (Facings, etc.), 1642 2d av, Pittsburg, Pa.
Mineral Grinding Co. (Facings only), Mauch Chunk, Pa.

Moore's Facing Works (Facings, etc.), Providence, R. I.
National Jeloluse Co., 547 W 43d, New York
National Supply Co., 2928 Girard av, Phila., Pa.
N. Y. Sand Facing Co. (Facings, Sand, etc.), 610 Kent av, Brooklyn, N. Y.
Obermayer, S. Co. (Facing, etc.), 647 Evans, Cincinnati, O.

OSBORN MFG. CO. (Brushes & Supplies), 5401 Hamilton av, N. E., Cleveland, O. (See adv. above)

Pacific Tool & Supply Co. (Supplies), Mission & 1st, San Francisco, Cal.

Paxson, J. W. & Co. (Facings & Supplies), 1021 N Delaware av, Phila., Pa.

Rumsey, L. M. Mfg. Co., 806 N Main, St. Louis, Mo.

SMITH, J. D., FOUNDRY SUPPLY CO., (Factory Supplies), 1581 Columbus rd, N. W., Cleveland, O. (See adv. top of next page)

SPRINGFIELD FACING CO. (Facings & General Supplies), Springfield, Mass. (See adv. below)

Standard Graphite Co., 11 B'way, New York

STANDARD SAND & FOUNDRY SUPPLY CO. (Special Foundry Machinery), 1434 Superior, Cleveland, O.

STANDARD SAND & MACHINE CO., 5151 St. Clair, Cleveland, O. (See adv. bottom of following page)

Steward, D. M. Mfg. Co. (Facings Only), Chattanooga, Tenn.

Stevens, F. B. (Facings, Brick Sand, etc.), 3d & Larned, Detroit, Mich.

Sutch, Frank E., Harrison bldg, Phila., Pa.

United States Graphite Co. (Facings Only), Saginaw, Mich.

United States Graphite Co. (Facings), 1208 Arch, Phila., Pa.

Wainwright, Jno. C. A. (Facings Only), Springfield, Pa.

Waskom, W. M. & Co. (Supplies), Dallas, Tex.

Whitehead Bros. & Co. (Facings, etc.), 537 W 27th, N. Y.

Foundry Plant Equipments

Byram & Co. (Inc.), 435 Guoin, Detroit, Mich.

Demmler, Wm. & Bros., Kewanee, Ill.

Etting, Edward J. (Mrs.' Agent), Harrison bldg, Phila., Pa.

Gilmour, J., 99 Nassau, New York

Heyl & Patterson, 51 Water, Pittsburg, Pa.

NORTHERN ENGINEERING WORKS, Detroit, Mich. (See adv. index, end of book)

Obermayer, S. Co., 647 Evans, Cincinnati, O. (See adv. top of following page; branch offices, end of book)

OSBORN MFG. CO., 5401 Hamilton av, N. E., Cleveland, O. (See adv. above)

Paxson, J. W., Co., 1021 Delaware av, Phila., Pa.

FOUNDRY FACINGS**SPECIAL PREPARATIONS**

For Brass Foundries and For Stove Foundries.

SPRINGFIELD FACING CO., Springfield, Mass.



F. H. CHAMBERLIN, Pres. and Mgr.

J. S. SMITH, Sec. and Treas.

The J. D. Smith Foundry Supply Co. CLEVELAND FACING MILL,

MANUFACTURE

Foundry Facings, Blackings

AND FOUNDRY SUPPLIES OF EVERY DESCRIPTION.

Design, Build and Equip Complete Foundry Plants.

Send for Catalogue.

CLEVELAND, OHIO, U. S. A.

SMITH, J. D., FOUNDRY SUPPLY CO.,

1581 Columbus rd, N. W., Cleveland, O.

(See adv. above)

STANDARD SAND & MACHINE CO.,

5151 St. Clair, Cleveland, O. (See adv. below)

Sty, W. W. Mfg. Co., Cleveland, O.

Vulcan Works (Open Hearth Steel), Chester, Pa.

WHITING FOUNDRY EQUIPMENT

Co., Harvey, Ill. (See adv. index & branch offices, end of book)

Foundry Sprinklers (Steel)*LYON METALLIC MFG. CO., Aurora,**
Ill. (See adv. index, end of book)**Fountains (Drinking)**

(See Fountains, Vases, Etc.)

Fountains (Drinking, Sanitary)

Mott, J. L. Iron Works, 118 5th av, N. Y.

Fountains (Electric)

Electric Fountain Co. of America ("Darlington"), Real Estate Trust bldg, Phila., Pa.

Fountains (Soda Water)

Acorn Brass Mfg. Co., 51 N Peoria, Chicago, Ill., & St. Louis, Mo.

American Soda Fountain Co., Boston, Mass.

Liquid Carbonic Co., Michigan & Wells, Chicago, Ill.

Fountains (Stock)

Mast, Foos & Co. ("Dewey"), Springfield, O.

Fountains, Vases, Etc.

Badger Wire & Pottery Co., Milwaukee, Wis.

Barbee Wire & Iron Works, 44 Dearborn, Chicago, Ill., & Lafayette, Ind

Barnum, E. T. (Wire & Iron Works), 99-105 Shelby, Detroit, Mich.

BETHLEHEM FOUNDRY & MACHINE CO.

(Drinking Fountains, Iron Settees, etc.), Front, South Bethlehem, Pa. & 149 B'way, N. Y. (See adv. index, end of book)

Cahill Iron Works (Vases, etc.), Chattanooga, Tenn.

Carr, Jas. W. (Iron Benches & Vases), 319 W Clay, Richmond, Va.

CHAMPION IRON CO., KENTON, O.

(See adv. index, end of book)

Cheney, S. & Son (Vases Only), Manlins, N. Y.

CINCINNATI MFG. CO. (Vases, etc.),

1243 W 6th, Cincinnati, O. (See adv. index, end of book)

Clow, Jas. B. & Sons, 344 Franklin, Chicago, Ill.

Concord Foundry Co., Concord, N. H.

Creswell, S. J. Iron Works Co., 23d & Cherry, Phila., Pa.

DARBY, EDW. & SONS, 233 Arch,

Phila., Pa. (See adv. index, end of book)

Eagle Iron Works (Inc.), 850 De Kalb av, Brooklyn, N. Y.

Fiske, J. W., 39 Park pl, N. Y.

Ginther's J. Sons, 417 B'way, Buffalo, N. Y.

Globe Wire & Iron Works, Atkinson av, Milwaukee, Wis.

Hennecke, C., Co. (Iron & Terra Cotta Vases), 280 B'way, Milwaukee, Wis.

Hinderer, C. A. F., 1112 Camp, New Orleans, La.

Hitzeroth, C., 3124 Market, Philadelphia, Pa.

Humphrey Machine Co., Keene, N. H.

Illinois Iron & Bolt Co. (Vases, Hitching Posts, etc.), Carpenterville, Ill.

Illinois Malleable Iron Co. (Drinking Fountains), 30 W Monroe, Chicago

Jones, M. D. & Co., 73 Portland, Boston, Mass.

Jones, Willis H., Utica, N. Y.

Kohler, J. M. Sons Co. (Street Fountains), Sheboygan, Wis.

Le Baron Foundry Co., Middleboro, Mass.

McCrum-Howell Co. (Enamelled Drinking Fountains), 46 E 20th, New York, N. Y.

McDonald Bros. (Vases, Settees, etc.), Columbus, O.

Mott, J. L., Iron Works, 118 5th av, New York

Novelty Iron Works (Automatic Fountains for Stock), Sterling, Ill.

Northwestern Foundry, 312 10th av, S Minneapolis, Minn.

Nute, T. C. Foundry Co., Akron, O.

Ornamental Iron & Wire Co., Portsmouth, Va.

Palmer, C. F., 171 Blandina, Utica, N. Y.

SMITH, F. P. WIRE & IRON

Works, 100 Lake, Chicago, Ill. (See adv. index, end of book)

Smyser's, E. G. Sons, York, Pa., & Baltimore, Md.

Southard-Robertson Co. (Cast Iron Lawn Vases), 257 Water, New York

Standard Sanitary Mfg. Co. (Drinking Fountains), Bessemer bldg, Pittsburgh, Pa.

Stewart Iron Works Co., 714 E 3d, Cincinnati, O.

Stewart & Stevens Iron Works, 9th & Montgomery av, Phila., Pa.

Swett, A. L., Iron Works (Vases, Fountains, etc.), Medina, N. Y.

TAYLOR & DEAN, 205 Market, Pitts-

burg, Pa. (See adv. index, end of book)

Van Dorn Iron Works Co., 1792 E Madison av, Cleveland, O.

VULCAN CO., Detroit, Mich. (See

adv. index, end of book)

Westervelt, A. B. & W. T., 102 Chambers, N. Y.

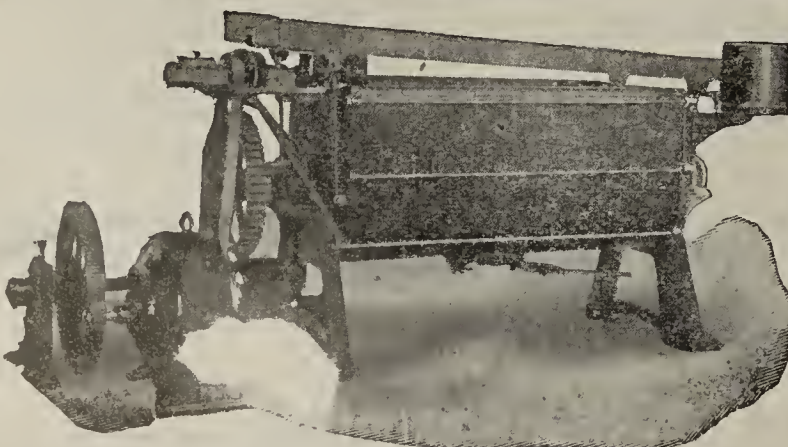
Wisconsin Iron & Wire Works, 186 E Water, Milwaukee, Wis.

Frames (Automobile Pressed Steel)

American & British Mfg. Co., Providence, R. I., & Bridgeport, Conn.

MULLINS, W. H. CO., Salem, O. (See

adv. index, end of book)

THE STANDARD SAND MIXER AND SCREEN

WITH OR WITHOUT DIRECT MOTOR ATTACHED.

Extensively used by Foundrymen, Concrete Building Block Manufacturers, Hard Wall Plaster Manufacturers and others, for screening, thoroughly mixing, and tempering sand and other materials. No experiment. Adopted by up-to-date firms throughout the world. Ask for catalogue and price.

THE STANDARD SAND & MACHINE CO.

CLEVELAND, OHIO, U. S. A.

Manufacturers of Mixing, Screening, Elevating, Conveying Machinery of all kinds, Concrete Building Block Machinery, Sand Dryers, Etc., Etc.

THE GREEN FUEL ECONOMIZER

WHAT IT IS AND WHAT IT DOES

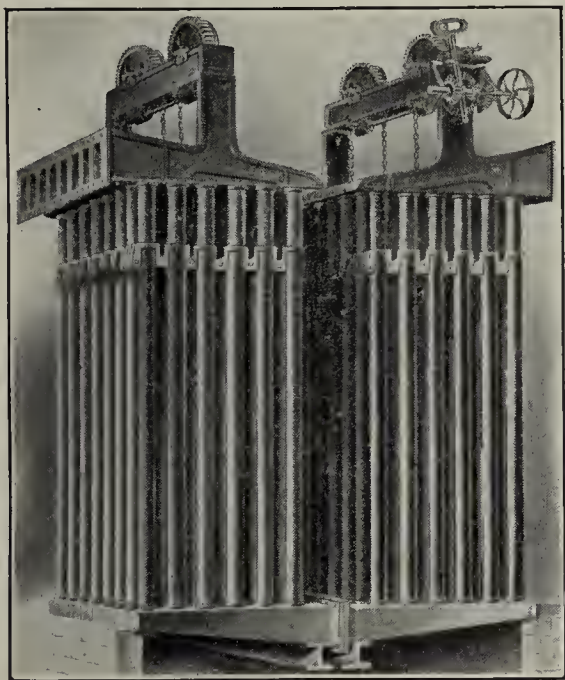


STEAM boilers are ordinarily so proportioned that 5 to 6 lbs. of coal are burned per sq. ft. of heating surface per hour, and under such conditions the temperature of the flue gases is usually higher than 550° F. This is much above the temperature at which the feed water enters the boiler and therefore represents **HEAT THAT MIGHT BE SAVED**, if sufficient heating surface were provided.

Much more boiler tube surface would be expensive; it would be attacked by sulphurous acid condensed from the gases and, without automatic scrapers, would soon be incrustated with soot.

Experience has shown that this additional surface is best provided in a Green Fuel Economizer, the heating surface of which consists of vertical cast-iron tubes not easily corroded, and provided with automatic scrapers for cleaning. Send us full particulars about your power plant and we will show you how an economizer can pay 30 to 50% **INTEREST ON THE INVESTMENT.**

Ask for Our Book "HD" on Power Plant Economy.



GREEN AIR HEATER

lieving the boiler plant of this demand for steam, it increases by the same amount the steam available for other uses. In most cases the device will pay for itself by the saving in fuel inside of a year, and will require no more care and attention than steam coils.

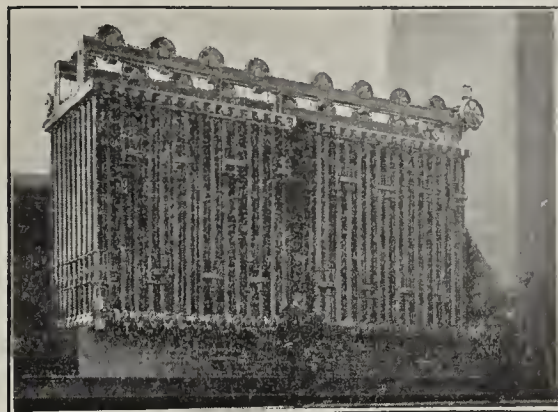
We have just published a pamphlet describing in detail its construction, manner of working, plants in which it has been installed, and results obtained.

WRITE FOR BULLETIN "101 HD."

THE GREEN FUEL ECONOMIZER CO.

MATTEAWAN, N. Y.

(SOLE BUILDERS OF THE GREEN FUEL ECONOMIZER IN THIS COUNTRY.)



GREEN FUEL ECONOMIZER

HENDRICKS' Commercial Register

Leads the Procession
of Publications in the
≡March of Trade≡

Among Architects, Builders, Contractors,
Engineers, Purchasing Agents of
Railroads, Mills, Mines, Factories and
Supply Houses

Because it is the most complete Buyers'
Reference and the most profitable
Advertising Medium.

Use Hendricks' COMMERCIAL
REGISTER



Write for particulars of free classifications.

Parish Mfg. Co., Reading, Pa.
 Parish & Bingham Co., 5363 Hamilton, Cleve-
 land, O.
 Smith, A. O. Co., Clinton bet Park & Virgil,
 Milwaukee, Wis.
 Standard Pressed Steel Co., N 20th & Clearfield,
 Philadelphia, Pa.
WORCESTER PRESSED STEEL CO.
 (Successors to Worcester Ferrule & Mfg.
 Co.), Worcester, Mass. (See adv. index, end
 of book)

*Frames (Steel Head)

WELLMAN-SEAEVER-MORGAN CO.,
 Cleveland, O., & Akron, O. (See adv. in-
 dex, end of book)

Frames (Suit Case)

Independent Steel & Wire Co., Pittsburg, Pa.

*Frames (Wood Saw)

FAIRBANKS, MORSE & CO. (With
 Arbors), Franklin & Monroe, Chicago, Ill.
 (See adv. index & branch offices, end of book)

Freezers (Ice Cream, Etc.)

Alaska Frezzer Co. ("Alaska," "North Star"),
 Winchendon, Mass.
 Confectioners' & Bakers' Supply Co., 218 E
 Washington, Chicago, Ill.
 Dana Mfg. Co. (Peerless Iceland"), Cincinnati,
 O.
 I. X. L. Ice Cream Co. ("Walker's"), Warren,
 Pa.
 Kingery Mfg. Co. (Power & Hand), 106 E
 Pearl, Cincinnati, O.
 Lange, Henry G., 22 N May, Chicago, Ill.
 Maag, August Co. ("Seaman's"), Baltimore,
 Md.
 Miller Pasteurizing Mach. Co., Canton, O.
 Miller-Tyson Co., Canton, O.
 Mills, Thomas & Bro. ("Monitor"), 3108 N 4th,
 Phila., Pa.
 North Bros. Mfg. Co. ("Lightning Gem,"
 "Blizzard"), Lehigh av & American, Phila.,
 Pa.
 Walker & Pratt Mfg. Co., 33 Union, Boston,
 Mass.
 White Mountain Frezzer Co., Nashua, N. H.
 Whitney, F. E., 65 Sudbury, Boston, Mass.

French Ranges, Etc.

(See Cooking Apparatus)

Frictions (Paper)

DODGE MFG. CO., Mishawaka, Ind.
 (See adv. index & branch offices, end of book)
 Rockwood Mfg. Co., Indianapolis, Ind.
WELLER MFG. CO., 124 E. North av.,
 Chicago, Ill. (See adv. index, end of book)

Frogs (Cast Iron)

Christman Co., Massillon, O.
 Cornell, J. B. & J. M. Co., 26th & 11th av.,
 New York

Frogs (Replacing)

(See Car Replacers)

Buda Foundry & Mfg. Co., Harvey, Ill., & Rail-
 way Exchange bldg, Chicago, Ill.
 Morris, Herbert, Betz bldg, Philadelphia, Pa.
 Tilden, B. E. Co., Manhattan bldg, Chicago, Ill.

Frogs (Spring Rail)

Cleveland Frog & Crossing Co. ("The Lucas"),
 Cleveland, O.
 Elliott Frog & Switch Co., East St. Louis, Ill.
INDIANAPOLIS SWITCH & FROG
 Co., Springfield, O.

Frogs, Switches & Crossings

Ajax Forge Co., 138 Jackson boul., Chicago.
 Alabama Frog & Switch Co., Anniston, Ala.
 American Frog & Switch Co., Hamilton, O.
 Barbour-Stockwell Co. (Street Ry.), Cambridge-
 port, Mass.
 Beall Non-Pounding Frog & Crossing Co., South
 Bend, Ind.
 Birmingham Frog & Crossing Co., North Bir-
 mingham, Ala.

Buda Foundry & Mfg. Co., Harvey, Ill., & Rail-
 way Exchange bldg, Chicago, Ill.
CAREY, GEO. H., 1 B'way, New
 York. (See adv. index, end of book)
CARLIN'S, THOMAS, SON'S CO., 1300
 River av, Allegheny, Pa. (See adv. index,
 end of book)
 Chester Steel Castings Co., Chester, Pa., & 407
 Sansom, Phila., Pa.
 Chicago Crossing Co., Chicago, Ill.
 Cleveland Frog & Crossing Co. ("The Lucas"),
 Cleveland, O.
 Elliott Frog & Switch Co. (Spring Frogs, Split
 Switches, & Switch Stands, etc.), East St.
 Louis, Ill.
FAIRBANKS, MORSE & CO., Frank-
 lin & Monroe, Chicago, Ill. (See adv. in-
 dex & branch offices, end of book)
 Falk Company, ft 30th, Milwaukee, Wis.
 Fox Bros. & Co., 126 Lafayette, New York
 Graham Flange Frog Co. (Flange Frogs), Salem,
 Va.
 Green's Car Wheel Mfg. Co., St. Louis, Mo.
INDIANAPOLIS SWITCH & FROG
 Co., Springfield, O.
 Johnston Railroad Frog & Switch Co., Chester,
 Pa.
 Johnson Wrecking Frog Co. (Wrecking Frogs,
 etc.) Citizens Bldg., Cleveland, O.
KOPPEL, ARTHUR CO., 68 Broad,
 New York. (See adv. below; branch offices,
 end of book)

MANUFACTURERS OF
COMPLETE INDUSTRIAL
AND
PORTABLE RAILROADS
A LARGE STOCK
— OF —
Rails, Steel Ties, Track, Port-
able Track, Switches, Frogs,
Turntables, Wheels, Axles,
Crossings, Spare Parts, Loco-
motives, Etc.
WRITE FOR CATALOG "M"
ARTHUR KOPPEL COMPANY
 66-68 Broad Street, New York
 1639 Monadnock Blk., Chicago
 Machesney Bldg., Pittsburgh
 Chronicle Bldg., San Francisco
 Works at Koppel, Beaver Co., Pa.

Kron, A. A. & Co., 52 Law av., Chicago, Ill.
 Lorain Steel Co., Johnstown, Pa.
 Louisville Bridge & Iron Co., 11th & Oldham,
 Louisville, Ky.
 Manufacturing Co. of America, Carlisle, Pa.
 Midvale Steel Co., Nicetown, Phila., Pa.
 Morden Frog & Crossing Works, The Rookery,
 Chicago
 New York Switch & Crossing Co., 15th and
 Madison, Hoboken, N. J.
 Peacock's Iron Works, Salem, Ala.
 Penna. Steel Co., Steelton, Pa.; Girard bldg,
 Phila., Pa.
 Pettibone, Mulliken & Co. ("Strom" Clamp
 Frogs & "Spring Rail" Frogs, etc.), 204
 Dearborn, Chicago, Ill.
 Railroad Supply Co., Bedford bldg., Chicago,
 Ill.
 Ramapo Iron Works (Crossings, Split Switches,
 Spring & Rigid Frogs, etc.), Hillburn, N. Y.
 Wason Mfg. Co., Brightwood, Springfield, Mass.
WATSON, BENJAMIN, 66 Beaver
 New York. (See adv. index, end of book)
 Weir Frog Co., Beech & Highland av, Cincin-
 nati, O.
 Wharton, Wm., Jr., & Co. (Inc.), 25th & Wash'n
 av, Phila., Pa.
 White Mfg. Co. (Crossings & Signals), 556 W.
 34th, New York

WIENER, ERNST CO., 68 Broad,
 New York. (See adv. index, end of book)

Frogs (Wrecking)

(See Replacers, Car.)

Fuel Economizers

American Stoker Co., W. 12th & Cranberry,
 Erie, Pa.
BARTLETT, C. O. & SNOW CO.,
 Cleveland, O. (See adv. index, end of book)
 Broomell, Schmidt & Steacy Co., Inc. "Amer-
 ican", York, Pa.
GREEN FUEL ECONOMIZER CO.,
 General Office & Works, Matteawan, N. Y.,
 1218 West Street bldg, New York. (See adv.
 index & branch offices, end of book)
 Keyes, F. E., & Son, 20 Broad, N. Y. City.
 Parker Boiler Co., Pennsylvania bldg., Philadel-
 phia, Pa.
 Sturtevant, B. F. Co., Hyde Park, Mass.

Fuel Oil & Gas Burning Appli- cations

(See also Burners, Fuel Oil.)

Gilbert & Barker Mfg. Co., Springfield, Mass.
BEST, W. N. AMERICAN CALORIFIC
 Co., 11 B'way, New York. (See adv. index,
 end of book)
 Industrial Gas Co., 949 B'way, New York
 National Equipment Co., 211 N 7th, St. Louis,
 Mo.
 National Supply Co. (Billow System for Fuel
 Oil), 315 Dearborn, Chicago, Ill.
OIL WELL SUPPLY CO., 215 Water,
 Pittsburg, Pa. (See adv. index, end of book)
PETROLEUM IRON WORKS CO.,
 Washington, Pa., & Farmers' Bank bldg,
 Pittsburg, Pa. (See adv. index, end of
 book)
 Rockwell Engineering Co., 26 Cortlandt, N. Y.
 Schutte & Koerting Co. ("Koerting"), 1251 N
 12th, Phila., Pa.
 Tate, Jones & Co. (Inc.) (and Gas), Empire
 bldg, Pittsburg, Pa.

Fuel Oil Pumping Systems

National Supply Co. (Billow Systems), 315 Dear-
 born, Chicago, Ill.
OIL WELL SUPPLY CO., 215 Water,
 Pittsburg, Pa. (See adv. index, end of book)

Fuller's Earth

Hammill & Gillespie, 240 Front, New York
 Owl Commercial Co., 1181 B'way, New York
 Salomon, L. A. & Bro., 216 Pearl, N. Y.

Fullers (Top & Bottom)

ANDERSON FORGE & MACHINE CO.,
 271 Guoin, Detroit, Mich. (See adv. index,
 end of book)
 Atha Tool Co., Newark, N. J.
 Beall Bros. (Inc.) (Blacksmiths'), Alton, Ill.
 Evansville Tool Works, Evansville, Ind.
 Vaughn & Bushnell Mfg. Co. ("V. & B."), 875
 W Carroll av, Chicago, Ill.

Fumigators

Wotherspoon, Jas. R. ("Eureka," "Perfection"),
 430 Race, Phila., Pa.

*Funnels for Injection & Oil Overflow

LUNKENHEIMER CO., General Of-
 fices & Works, Beekman & Waverly, Cin-
 cinnati, O. (See adv. index & branch offices,
 end of book)

Funnels (Gasoline)

Auto-Improvement Co. ("Ever Ready"), 304
 Hudson, N. Y. C.
 Cambria Forge Co. Johnstown, Pa.
 Dover Stamping & Mfg. Co., Cambridge, Mass.
 Duplex Folding Pail Co., 114 E 14th, New York
 Frost Mfg. Co., Kenosha, Wis.
 Hussey Drop Forge & Mfg. Co., Axtell opp.
 Osage, Cleveland, O.
 Stevens & Co., 99 Chambers, N. Y. "Breeze."
 Taliaferro, W. T., 258 B'way, New York
 Vogel, Wm. & Bros. (Automatic), 37 S 9th,
 Brooklyn, N. Y.
WILSON, F. CORTEZ & CO., 239
 Lake, Chicago, Ill. (See adv. index, end of
 book)

Furnace Feeders (Automatic)

Sterling Blower & Pipe Co., Hartford, Conn.

Furnace Pipe & FittingsBartlett, J. C., 632 Liberty av., Pittsburg, Pa.,
& West Newton, Pa.
Excelsior Steel Furnace Co., 38 W Monroe, Chicago, Ill.

Perfection Furnace Pipe Co., Toledo, O.

PITTSBURG VALVE, FOUNDRY & CONSTRUCTION CO., 26th & A. V. Ry., Pittsburg, Pa. (See adv. index, end of book)

Rome Geo. & Co. (Ventilating), Carnegie, Pa.

Safety Furnace Pipe Co., 13 E Atwater, Detroit, Mich.

Stockhoff Supply Co. (Perfection), 107 N Main, St. Louis, Mo.

Wright Mfg. Co., 780 State, New Haven, Conn.

Furnaces (Agricultural)

Donaldson Bros., Mt. Clemens, Mich. (See adv. index, end of book)

Furnaces (Annealing & Case Hardening)*AMERICAN GAS FURNACE CO. (Gas)**, 24 John, New York, & Elizabeth, N. J. (See adv. below)

American Stoker Co., 277 B'way, N. Y.

AMSLER ENGINEERING CO. (Annealing Only), Diamond Bank bldg., Pittsburg, Pa. (See adv. index & branch offices, end of book)

Bates Machine Co., Joliet, Ill.

BEST, W. N. AMERICAN CALORIFIC CO., 11 B'way, New York. (See adv. index, end of book)

Braun, F. W. Co. (Annealing, Hardening, Tempering & Case Hardening), Los Angeles, Cal.

Brown & Sharpe Mfg. Co., Providence, R. I.

Chicago Flexible Shaft Co. (Case Hardening Gas Blast), La Salle & Ontario, Chicago, Ill.

CROSBY CO. (Case Hardening), 171-189 Pratt, Buffalo, N. Y. (See adv. index, end of book)

Engelhard, Chas. ("Heraeus," Steel Hardening), 39 Cortlandt, New York

Forster-Miller Eng. Co., Westinghouse bldg., Pittsburg, Pa.

Gilbert & Barker Mfg. Co., Springfield, Mass.

McClure, G. W., Son & Co., Bessemer bldg., Pittsburg, Pa.

MacKenzie's, Duncan Sons Co., Trenton, N. J.

Manchester, C. B. Gas Furnace Co. (Gas), 60 Friendship, Providence, R. I.

Morgan Construction Co., Worcester, Mass.

Railway Materials Co. (For Boiler Shop, Oil as Fuel), Old Colony bldg., Chicago

Rockwell Engineering Co., 26 Cortlandt, N. Y.

Reuleaux, Josef & Co., Second National Bank bldg., Pittsburg, Pa.

Tate, Jones & Co., Inc. ("Kirkwood" Oil & Gas for Fuel), Pittsburg, Pa.

Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.

Westmacott, J. M. Co. (Gas Blast), 159 Orange, Providence, R. I.

WILE POWER GAS CO., Cutler bldg., Rochester, N. Y. (See adv. index, end of book)

Wittman, A. P. & Co. (Tempering, etc.), 233 Cherry, Philadelphia, Pa.

Furnaces (Asphalt, Pitch & Tar)

Evans, F. H. Co., 596 Kent av., Brooklyn, N. Y.

Fritsch, Francis Mfg. Co., 223 W McMicken

Koven, L. O. & Bro., 50 Cliff, New York

Lyman, W. C., 49 Michigan, Chicago.

Stuebner, G. L. Iron Works, 2th & Vernon av., Long Island City, N. Y.

Swindell, Wm. & Bros., German Nat'l Bldg., Pittsburg, Pa.

Turl's, Jno. Sons, 26 Cortlandt, New York

Union Iron Works, Hoboken, N. J.

Furnaces (Assayers' & Bullion)

Calkins Co., Los Angeles, Cal.

Furnaces (Babbitt Melting)**AMERICAN GAS FURNACE CO. (Gas)**, 24 John, New York, & Elizabeth, N. J. (See adv. index, end of book)**BEST, W. N. AMERICAN CALORIFIC CO.**, 11 B'way, New York. (See adv. index, end of book)

Bussey Burner Co., 23 Clay, Baltimore, Md.

Davis, W. P. Machine Co. ("Vesuvius"), Rochester, N. Y.

Westmacott, J. M. Co., 159 Orange, Providence, R. I.

Furnaces (Bagasse)

(Is Classified in its order under Sugar Machinery in the letter S.)

Furnaces (Billet Heating)**BEST, W. N. AMERICAN CALORIFIC CO.**, 11 B'way, New York. (See adv. index, end of book)

Morgan Construction Co., Worcester, Mass.

Rockwell Engineering Co. (Oil, Coal or Gas), 26 Cortlandt, New York

WILE POWER GAS CO., Cutler bldg., Rochester, N. Y. (See adv. index, end of book)**Furnaces (Blast)**

(See Iron. Pig; also Blast Furnace and Steel Works Construction.)

Furnaces (Bolt Making)*BEST, W. N. AMERICAN CALORIFIC CO.**, 11 B'way, New York. (See adv. index, end of book)**Furnaces (Brass & Copper Melting)**

Barnett, Oscar Foundry Co., Newark, N. J.

BEST, W. N. AMERICAN CALORIFIC CO., 11 B'way, New York. (See adv. index, end of book)

Brass Founders' Supply Co. (Rotary), Newark, N. J.

Byram & Co. (Inc.), 435 Guolin, Detroit, Mich.

Gesswein, F. W. Co. (Kerosene), 39 John, N. Y.

Hawley Down Draft Furnace Co. ("Schwartz"), Superior & Townsend, Chicago, Ill.

Johnson Service Co. ("Johnsons"), Milwaukee, Littleford Bros., 453 E Pearl, Cinn., O. Wis.

Manchester, C. B. Gas Furnace Co. (Gas), 60 Friendship, Providence, R. I.

Monarch Engineering & Mfg. Co. ("Steele-Harvey" Oil), Baltimore, Md.

Obermayer, S., Co., 647 Evans, Cincinnati, O.

OSBORN MFG. CO., 5401 Hamilton av., N. E., Cleveland, O. (See adv. index, end of book)

Rockwell Engineering Co., 26 Cortlandt, N. Y.

Sheriff Mfg. Co., 124 Barclay, Milwaukee, Wis.

SMITH, J. D. FOUNDRY SUPPLY CO., 1581 Columbus rd., N. W., Cleveland, O. (See adv. index, end of book)

Tate, Jones & Co., Inc. ("Schwartz" with "Kirkwood" Fuel Oil System), Pittsburg, Pa.

Westmacott, J. M. Co. (Gas Blast), 159 Orange, Providence, R. I.

WHITING FOUNDRY EQUIPMENT CO., Harvey, Ill. (See adv. index & branch offices, end of book)***Furnaces (Brazing)****EST, W. N. AMERICAN CALORIFIC CO.**, 11 B'way, New York. (See adv. index, end of book)**Furnaces (Case Hardening)**

(See Furnaces, Annealing & Case Hardening.)

Furnaces (Continuous)*AMSLER ENGINEERING CO.**, Diamond Bank bldg., Pittsburg, Pa. (See adv. index & branch offices, end of book)**Furnaces (Core Baking)**

(See Ovens, Core Baking)

Furnaces (Corrugated)

Brown, John & Co., Ltd., 17 Battery Pl., New York City

Continental Iron Works (For Land & Marine Boilers), West & Calver, Brooklyn, N. Y.

Furnaces (Crucible)**AMSLER ENGINEERING CO.**, Diamond Bank bldg., Pittsburg, Pa. (See adv. index & branch offices, end of book)**BEST, W. N. AMERICAN CALORIFIC CO.**, 11 B'way, New York. (See adv. index, end of book)

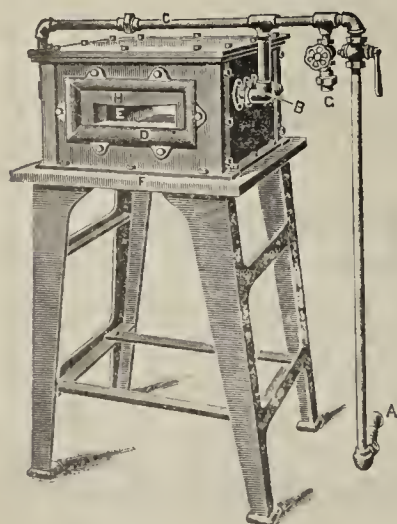
Engelhard, Chas. ("Heraeus"), 39 Cortlandt, New York

Monarch Engineering & Mfg. Co. (Melting), Curtis Bay, Baltimore, Md.

Rockwell Engineering Co. (Brass), 26 Cortlandt, New York

Turner Brass Works (Gasoline), 66 Michigan, Chicago, Ill.

Union Drop Forge Co., Chicago, Ill.

WHITING FOUNDRY EQUIPMENT CO., Harvey, Ill. (See adv. index & branch offices, end of book)

American Gas Furnaces

Secure Accuracy and Precision
in all Mechanical Heating Processes

CATALOGUE MAILED WITH PLEASURE

American Gas Furnace Co.

24 JOHN STREET, NEW YORK

CALOREX Liquid Fuel Equipments

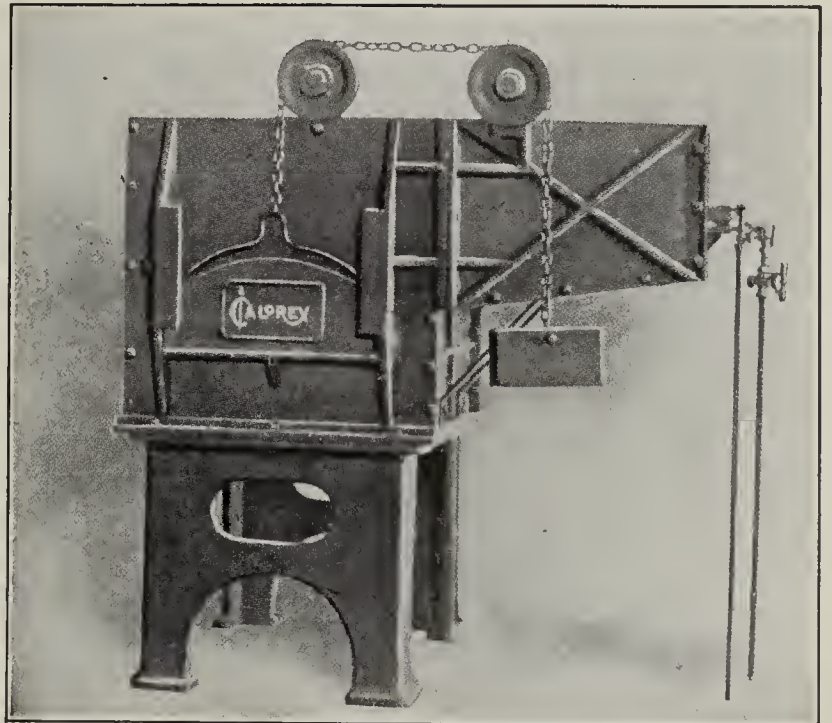
W. N. BEST AMERICAN CALORIFIC CO.

Oil and Tar Burners and Furnaces

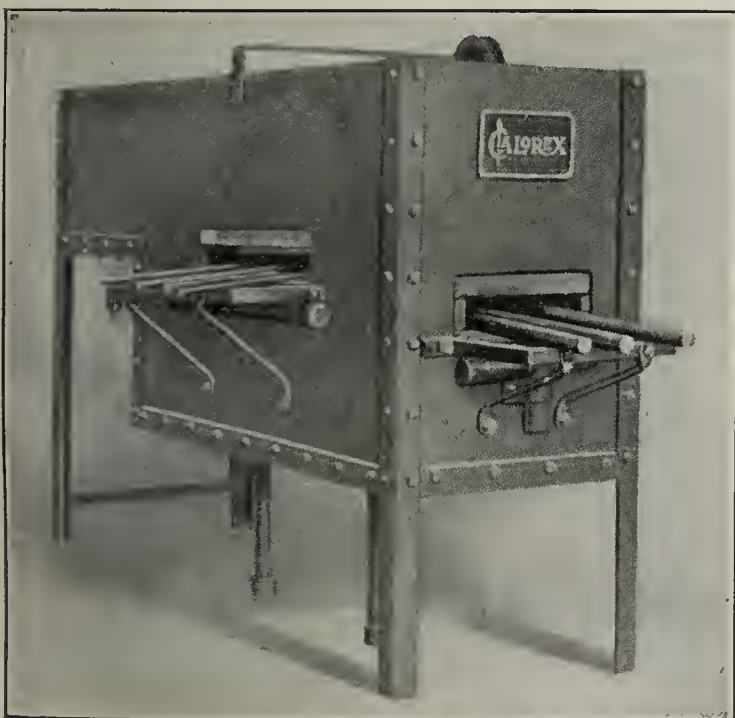
11 BROADWAY

NEW YORK

The Class "D" Furnace is adapted for forge work and can be used for any work requiring heat from a cherry red to a weld.



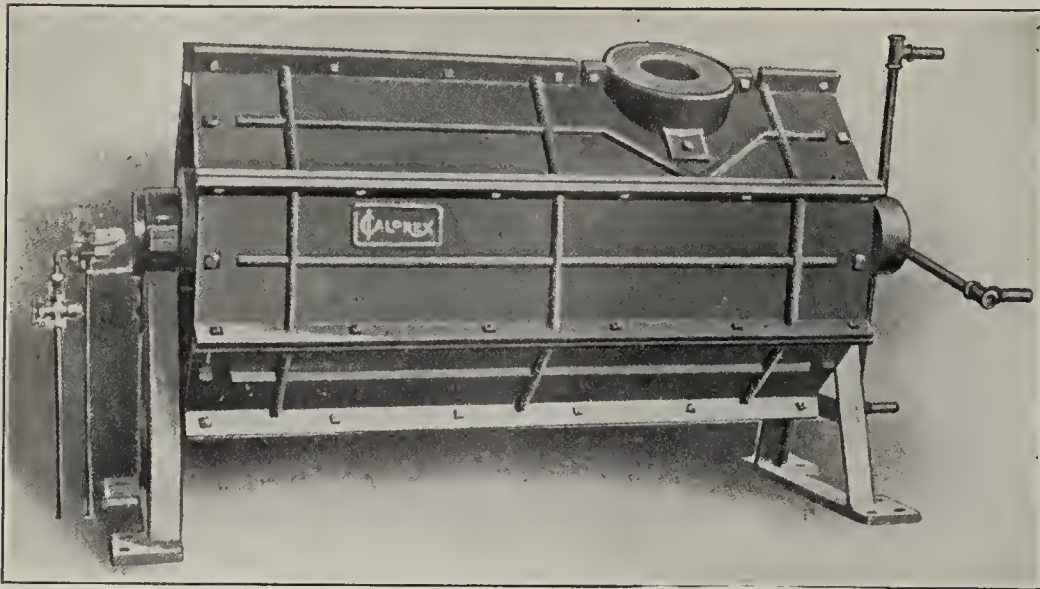
CLASS D FURNACE



CLASS G FURNACE

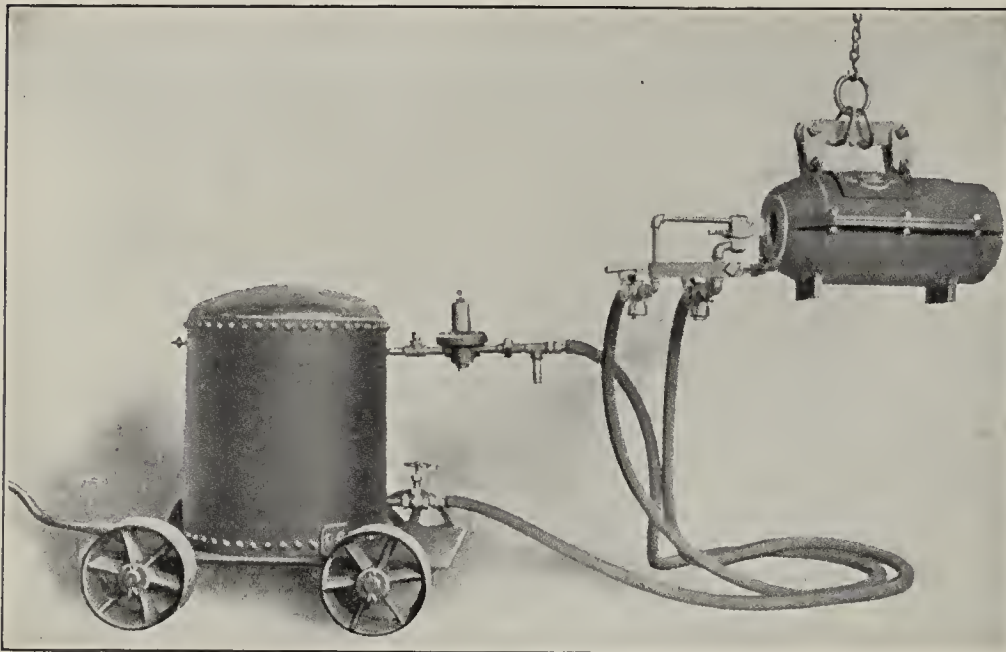
The Class "G" Furnace is a combination furnace having opening at the end for charging long bars to supply rivet making machine, and side opening for charging blanks to supply bolt making machine. It can also be operated singly by the bricking in of either one of the doors.

(OVER)



CLASS E FURNACE

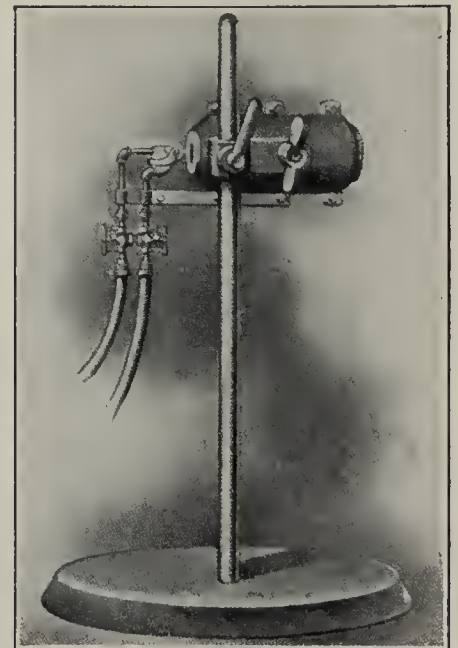
The Class "E" Furnace is a rotary metallurgical furnace for melting copper, brass, steel, iron, etc., having capacity of 600 lbs. of metal in 40 minutes.



B-2 FURNACE

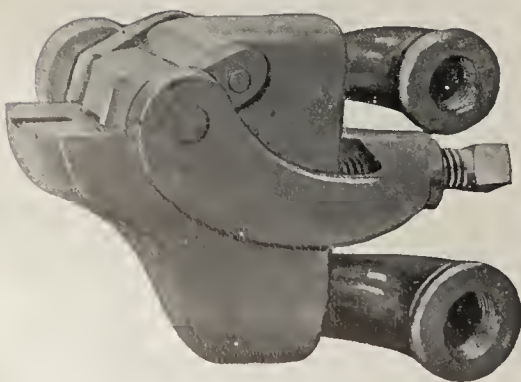
The Class "B-2" Furnace is of a portable type, equipped with 20 gallon oil tank and especially adapted for

- Annealing of armor plate
- Setting up corners of fire box sheets to mud-rings
- Heating patches for boilers of various types
- Heating of band rings
- Heating large crucibles or ladles in steel work
- Heating shafts and bent pieces of iron
- Brazing large bodies of metal.



B-9 FURNACE

The Class "B.9" Furnace is portable, equipped with 20 gallon oil tank same as shown with the B-2 Furnace; can be raised or lowered, or placed at any angle, and is especially adapted for brazing purposes.

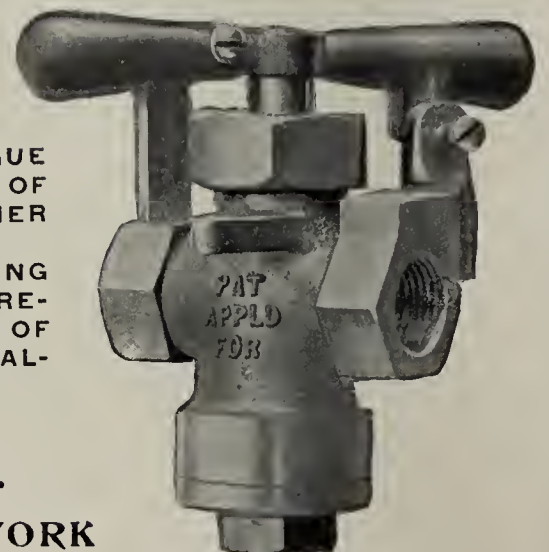


BURNER

These illustrations show the type of Burner and the "Best" Safety Regulating Cock used in connection with all of our furnaces.

WRITE FOR OUR CATALOGUE DESCRIBING COMPLETE LINE OF STANDARD FURNACES AND OTHER LIQUID FUEL EQUIPMENTS.

IN ADDITION TO SUPPLYING NEW FURNACES, WE CAN RE-MODEL AND EQUIP FOR USE OF LIQUID FUEL, ANY FURNACE ALREADY CONSTRUCTED.



REGULATING COCK

W. N. BEST AMERICAN CALORIFIC CO.

11 BROADWAY

NEW YORK

Furnaces (Electric)

Engelhard, Chas. ("Heraeus" Muffle), 39 Cortlandt, New York
 Wolff, R. H., ("Heroult"), 445 B'way, New York

***Furnaces (Enameling, Muffler)**

AMERICAN GAS FURNACE CO. (Gas), 24 John, New York, & Elizabeth, N. J. (See adv. on preceding page)
BEST, W. N. AMERICAN CALORIFIC CO., 11 B'way, New York. (See adv. index, end of book)

***Furnaces (Flanging)**

BEST, W. N. AMERICAN CALORIFIC CO., 11 B'way, New York. (See adv. index, end of book)

***Furnaces (Flue Welding)**

BEST, W. N. AMERICAN CALORIFIC CO., 11 B'way, New York. (See adv. index, end of book)

Furnaces (Forging, Etc.)

BEST, W. N. AMERICAN CALORIFIC CO., 11 B'way, New York. (See adv. index, end of book)
 Crane, W. W. Foundry & Machine Works, Auburn, N. Y.
 Railway Materials Co. ("Ferguson," Oil as Fuel), Old Colony bldg., Chicago, Ill.
 Union Drop Forge Co. (also Crucible), Chicago, Ill.
 Westmacott, J. M. Co. (Gas Blast), 159 Orange, Providence, R. I.

Furnaces (Fuel Oil Burning)

BEST, W. N. AMERICAN CALORIFIC CO., 11 B'way, New York. (See adv. index, end of book)
BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)
 Gilbert & Barker Mfg. Co., Springfield, Mass.

Furnaces (Gas)

Combustion Utilities Co. (also Lime), 60 Wall, New York
 Economy Furnace Co. ("Miracle") Dayton, O.
GAS POWER CO., New York. (See adv. index, end of book)
 Gilbert & Barker Mfg. Co., Springfield, Mass.
 Learn & Brindle ("Knoderer"), Columbus, O.
 Ohio Foundry Co., Dayton, O.

Furnaces (Gas Generator)

Gautier, J. H. & Co. ("Flemming"), Jersey City, N. J.

Furnaces (Gas Soldering)

BICKELHAUPT, G. SKYLIGHT Works, 243 W 47th, New York. (See adv. index, end of book)
 Burgess Soldering Furnace Co. ("Gem"), Columbus, O.
 Gilbert & Barker Mfg. Co., Springfield, Mass.
JACOBSON MACHINE MFG. CO., Warren, Pa. (See adv. index, end of book)
WILE POWER GAS CO., Cutler bldg., Rochester, N. Y. (See adv. index, end of book)
WILSON, F. CORTEZ & CO., 239 Lake, Chicago, Ill. (See adv. index, end of book)

Furnaces (Glass Mfrs.)

AMSLER ENGINEERING CO., Diamond Bank bldg., Pittsburg, Pa. (See adv. index & branch offices, end of book)
 American Producer Gas Furnace Co., Salem, N. J.
BEST, W. N. AMERICAN CALORIFIC CO., 11 B'way, New York. (See adv. index, end of book)
 Mathews, McGranahan & Mathews, Rochester, Pa.
 Murphy, M. L., 426 4th av., Pittsburg, Pa.

***Furnaces (Gold & Silver Melting)**

AMERICAN GAS FURNACE CO. (Gas, also Assaying), 24 John, New York, & Elizabeth, N. J. (See adv. index, end of book)

Furnaces (Heating)

AMSLER ENGINEERING CO., Diamond Bank bldg., Pittsburg, Pa. (See adv. index & branch offices, end of book)
BEST, W. N. AMERICAN CALORIFIC CO., 11 B'way, New York. (See adv. index, end of book)
 McClure, G. W. Son & Co., Beesemer bldg., Pittsburg, Pa.
 Philadelphia Roll & Machine Co., S 23d & Washington av., Phila., Pa.
 Reuleaux, Josef & Co., Second National Bank bldg., Pittsburg, Pa.
 Williams, White & Co., Moline, Ill.

Furnaces (High Speed Steel)

AMERICAN GAS FURNACE CO. (Gas), 24 John, New York, & Elizabeth, N. J. (See adv. on preceding page)
 Gilbert & Barker Mfg. Co., Springfield, Mass.

Furnaces (Hot Air, Gas for Fuel)

Barber Mfg. Co., Ashtabula, O.
 Crane, Wm. M. Co., 1133 B'way, New York.
 Schellhammer & Son, Warren, Pa.

Furnaces (Hot Air, Mfrs.)**CALIFORNIA.**

SAN FRANCISCO—Mission Foundry & Stove Works, 2256 Harrison
 Steiger & Kerr Stove & Foundry Co., Main & Harrison

CONNECTICUT.

BRISTOL—Turner Heater Co.
NORWICH—McCrum-Howell Co. ("Richmond"), Main Office, New York
PUTNAM—Putnam Foundry & Machine Co.
STAMFORD—Stamford Foundry Co.
 Stamford Gas Stove Co.

ILLINOIS.

AURORA—Love Bros. (Inc.)
BLOOMINGTON—American Foundry & Furnace Co.
CHICAGO—Boedecker, C., 121 W Wash'n
 Boynton Furnace Co., 147 Lake
 Cox, Abram Stove Co., 19 W Lake
 Excelsior Steel Furnace Co., 40 W Monroe
 Franzen, Wm., 882 Clifton av
 Fuller-Warren Co., 86 Lake
 Hart & Crouse Co., 79 Lake
 Hess Warming & Ventilating Co., 131 La Salle
 International Heater Co., 48 Dearborn
KELLOGG - MACKAY - CAMERON Co. (Mfrs.' Agents), Michigan av & 12th. (See adv. index, end of book)
 Magee Furnace Co., 86 Lake
 Mott, J. L. Iron Works, Merchants' Loan & Trust bldg
 Richardson & Boynton Co., 84 Lake
 Robinson Furnace Co., 105 Lake
 Servoss Furnace Co., 135 Lake
 Smith, Chas. Co. ("Hero," "Little Giant"), 101 E Lake
CHICAGO HEIGHTS—Quaker Mfg. Co.
MOLINE—Tyrrell, B. B. & Co.
PEORIA—Meyer Furnace Co.
 Western Stove Works ("Pleasant House")
QUINCY—Gem City Stove Mfg. Co. ("German")

INDIANA.

INDIANAPOLIS—Hawkins, Rollyn Co., 326 E Market
 Kruse & Dewenter, 427 E Washington
 Mast, Geo. J. Heating Co., 643 Mass av
 Thiele, L. C., 105 S Meridian

IOWA.

CEDAR RAPIDS—Economy Furnace Co.
DES MOINES—Campbell Heating Co.
 Green Foundry & Furnace Works
DUBUQUE—Smedley Steam Pump Co.
MARSHALLTOWN—Lennox Machine Co. (Hard & Soft Coal & Wood)

KANSAS.

LEAVENWORTH—Varney Heating & Mfg. Co., 321 Cherokee

KENTUCKY.

COVINGTON—Clark, W. A. & Co.
NEWPORT—Fennell, Geo. H. & Co.

MAINE.

BANGOR—Clement & Brown Mfg. Co., 101 Broad
 Wood & Bishop Co.
PORTLAND—Crocker, C. H. Co., 40 Preble
 Portland Stove Foundry Co.

MARYLAND.

BALTIMORE—Bibb, B. C. Stove Co., 107 Light
 Heath, Chas. C. & Co., 14 N Howard
 Hutchinson Bros., 116 N Howard
 Keeley Stove Co., 21 S Charles
 Rapid Transit Stove & Furnace Co., 628 N
 Sexton, S. B. Stove & Mfg. Co. Eutaw
 Sheppard, Isaac A. & Co., Eastern av & Chester

MASSACHUSETTS.

BOSTON—Carpenter, Cyrus & Co., 44 Hanover
 Chilson Furnace Co., 88 Wash'n
 Chubbuck, L. H. & Co., 30 Hayward pl
 Clark, Henry N. Co., 56 Union
 Felton-Turner Heating Co., 32 Warren
 Highland Foundry Co., 1341 Columbus av
 Howes, S. M. Co., 40 Union
 Kohler Furnace & Steam Heating Co., Elmwood c Dunlow
 Magee Furnace Co., 38 Union
 Ridgway Furnace Co., 6 Portland
 Rodday, Robt. J. & Co., 138 Harrison av
 Smith & Anthony Co., 48 Union
 Walker & Pratt Mfg. Co., 31 Union
 White, Chas. H. & Co., 22 Bowker
 Young, D. A. & Co., 251 Atlantic av
CHELSEA—International Heater Co.
HAVERHILL—Mills & McClintock
MANSFIELD—Chilson Furnace Co.
METHUEN—Sanborn Furnace Co.
 Dighton Furnace Co.
WATERTOWN—Walker & Pratt Mfg. Co.
WINCHENDON—Hill & Bosley

MICHIGAN.

ALMA—Schwartz, J. F. (The Imperial)
BIG RAPIDS—Michigan Heater Co.
DETROIT—Detroit Furnace & Heater Co., 251
 Michigan Stove Co., 1022 Jeff av Guoin
 Peninsular Stove Co., 10th & W Fort
 Standard Foundry Co., 685 Atwater E
DOWAGIAC—Beckwith, P. D. (Est. of) (Round Oak)
GRAND RAPIDS—Shriner, Fred'k, Sr., 260
 ITHACA—Wells, H. B. & Son Lyon
MARSHALL—Marshall Furnace Co.
MONROE—Monroe Foundry & Furnace Co.
MORENCI—Chappell Furnace Co.
PETOSKEY—Burnett Foundry & Machine Co., Ltd.
TECUMSEH—Century Post Co.

MINNESOTA.

MINNEAPOLIS—**KELLOGG - MACKAY -** Cameron Co. (Mfrs.' Agents), 100-106 2d, S. (See adv. index, end of book)
 Moore Heating Co., 704 S 5th
 Schupp, Wm. & Co., 616 Third av. S
ST. PAUL—St. Paul Stove Repair Works (Stafford), 126 W 7th
 Wolxterstorf & Haskell Range & Furnace Co. (The "St. Paul"), 186 E 6th

MISSOURI.

KANSAS CITY—**KELLOGG-MACKAY -** Cameron Co. (Mfrs.' Agents), 2d & Main. (See adv. index, end of book)
MOBERLY—Selby, W. H.
ST. LOUIS—Halpin, Jas. Mfg. Co., 1513 Chestnut
 Haynes-Langenberg Mfg. Co. ("Front Ranks" Steel), 2301 Lucas av
 Stockhoff Supply Co., 107 N Main
 Wrought Iron Range Co., 1901 Wash'n av

NEBRASKA.

OMAHA—Western Furnace & Foundry Co.

NEW JERSEY.

JERSEY CITY—Boynton Furnace Co., Pacific av
NEWARK—Thatcher Furnace Co., 42 St. Francis

NEW YORK.

BUFFALO—Ginther's, J. Sons, 417 B'way
 CORNING—Corning Mfg. Co. (The Victor)
 FULTON—Emeny, G. J. ("Intense")
 GENEVA—Summit Foundry Co.
 HOOSICK FALLS—Brien Heater Co.
 NEW YORK—Abendroth Bros., 109 Beekman
 Barstow Stove Co., 210 Water
 Boynton Furnace Co., 207 Water
 Cory, Uzal, 725 6th av
 Crane, W. M. Co., 1133 B'way
 Fuller & Warren Co., 256 Water
 Graff Furnace Co., 208 Water
 Harvey Furnace Co., 220 W 26th
 Kelsey Heating Co., 156 5th av
 McCrum-Howell Co., 46 E 20th, New York
 McCrum-Howell Co. ("Richmond"), 46 E 20th
 Mott, J. L. Iron Works, 118 5th av
 Munsell, Eugene & Co., 218 Water
 Nugent, Thos., 223 E 80th
 Richardson & Boynton Co., 234 Water
 Richardson-Morgan Co., 92 Beekman
 Sheppard, Isaac A. & Co., 312 Pearl
 Southard-Robertson Co. ("Magnetic"), 257 Water
 Thatcher Furnace Co., 110 Beekman
 Thomas-Roberts-Stevenson Co., 250 Water
 Union Stove Works, 70 Beekman
 PEEKSKILL—N. Y. Stove Works
 Union Stove Works
 ROCHESTER—Co-Operative Foundry Co.
 Enterprise Foundry Co. ("Ariel"), 48 Olean
 SYRACUSE—Kelsey Heating Co., 339 W Fayette
 Syracuse Heater Co., 517 S Clinton
 Syracuse Stove Works ("Kernan-Welcome")
 TROY—Burdett, Smith & Co.
 Fuller & Warren Co.
 Henderson, Frank, 41 Maple av
 Westside Foundry Co., Watervliet
 UTICA—Giblin & Co.
 Hart & Crouse Co.
 International Heater Co.
 Palmer, C. F. (the Phoenix)
 Utica Heater Co.

OHIO.

AKRON—May & Fleheger
 Rohrbacher & Allen ("Jahant")
 Taplin-Rice & Co. ("Climax")
 Twentieth Century Heating & Ventilating Co. ("Twentieth Century")
 ASHTABULA—Barber Mfg. Co.
 CANTON — BONNOT COMPANY. (See adv. index, end of book)
 CANTON FOUNDRY & MACHINE Co. ("Imperial" Hot Air Blast) (See adv. index, end of book)
 CINCINNATI—Fischer, Wm. G. Stove & Range Co., 325 Race
 Grossius, John Furnace Co., 409 E 8th
 Lotze's, A. Sons & Co., 8th & B'way
 Miller, Wm. Range & Furnace Co., 125 E 5th
 Peck-Williamson Heating & Ventilating Co., 339 W 5th
 CLEVELAND—Bennett Furnace Co. (Cleveland), 5801 Euclid av
 Forest City Foundry & Mfg. Co. ("Monarch," "Imperial," "Niagara" Hard Coal & Coke)
 Mannen & Esterly Co. (Manest Combination Coal & Gas), 2247 St. Clair
 Smith, W. A. & Co., 120 Champlain
 Stran, C. W. (Gas for Fuel), 116 Erie
 COLUMBUS—Columbus Heating & Ventilating Co. ("Columbia," "U. S.," "Imperial," "Ohio," "O. K.," Coal of Gas, for Schools, Churches, etc.), 586 S High
 Schreyer, G. ("O. K.," Gas), 210 W Broad
 CRESTLINE—Schill Bros. Co.
 DANVILLE—Koons, William U. ("Modern" Steel)
 DAYTON—Cralg-Reynolds Foundry Co., Dayton, O.
 National Hot Air Furnace & Ventilating Co.
 ELYRIA—Fox Furnace Co.
 MANSFIELD—Baxter Stove Co.
 MARTINS FERRY—Stanton Heater Co. ("Stanton" Seamless)
 MASSILLON—Hess Snyder Co. ("Boomer")
 NEWARK—Simpson Heater Co.
 SPRINGFIELD—Patric Furnace Co., 17 W Wash'n
 Progress Furnace Co.
 STEUBENVILLE—Sharp, W. L. & Son
 TOLEDO—Caldwell Furnace F'dry Co.
 Sutton, C. E. Co. (Underfeed)
 YOUNGSTOWN—Youngstown Furnace & Supply Co. ("Lion" Combination)

OREGON.

PORTLAND—McPherson, W. G. Co. ("Perfect")

PENNSYLVANIA.

ALLENTOWN—Hersh & Bro.
 BRISTOL—Harkins, T. B. Foundry Co.
 COLUMBIA—Keeley Stove Co. ("Columbian")
 DANVILLE—Danville Stove & Mfg. Co.
 ERIE—Patterson & Stirling
 HARRISBURG—Harrisburg Mfg. & Boiler Co. ("The Hornsburg")
 PHILADELPHIA—Bartlett, Chas. F., 930 Filbert
 Cox, Abram Stove Co., cor American & Dauphin
 Danville Stove & Mfg. Co., 107 N 2d
 Makin-Kelsey Heating & Mfg. Co., 24 S 7th
 Mershon Patent Shaking Grate Works, 1203 Filbert
 Mount Penn Stove Works, 111 N 2d
 Phila. Stove & Iron Foundry Co., 1631 N 5th
 Reynolds, J. & Son, 1613 Filbert
 Sheppard, Isaac A. & Co., 1801 N 4th
 Spear, Jas. Stove & Heating Co., 1014 Market
 Thomas-Roberts-Stevenson Co., 3d & McKean
 Tubular Heating & Ventilating Co. (Jupiter), 228 Quarry
 PITTSBURG—Heating, Ventilating & Foundry Co., 1324 Park bldg
 Pittsburg Furnace & Ventilating Co., 329 1st av
 Pittsburg Stove & Range Co. ("Etna")
 PITTSTON—Pittston Stove Co. ("Pittston" & "Happy Thought")
 POTTSTOWN—March-Brownback Stove Co. ("Crown")
 QUAKERTOWN—Roberts, Winner & Co.
 READING—Geissler, H. C. & Sons, 731 Penn
 Mount Penn Stove Works
 Orr, Painter & Co. ("Sunshine")
 ROYERSFORD—Buckwater Stove Co.
 Floyd-Wells Co. ("Bengal")
 Grander Stove Co.
 SPRING CITY—Keystone Stove Foundry
 Yeager-Hunter Spring City Stove Works
 UNIONTOWN—McCrum-Howell Co. ("Richmond"). Main Office, New York
 WARREN—Schellhammer & Sons (Gas for Fuel)

RHODE ISLAND.

PROVIDENCE—Barstow Stove Co.

TENNESSEE.

KNOXVILLE—Scates Warm Air Furnace Co.

WASHINGTON.

SEATTLE — KELLOGG-MACKAY-CAMERON Co. (Mfrs.' Agents), 639 New York blk. (See adv. index, end of book)

WEST VIRGINIA.

WELLSBURG—Wellsburg Heating & Foundry Co. ("X. L. O.")
 WHEELING—Heating, Ventilating & Foundry Co.

WISCONSIN.

LA CROSSE—Terrance, Juo. & Son
 MILWAUKEE—Brand Stove Co., 295 6th
 Fuller-Warren Co., 32d & Wright
 Lindeman, A. J. & Hoverson Co., 348 Florida
 Lindeman, J. P. & Sons, 78 W Water
 Milwaukee Stove & F'dry Co., 130 W Water
 Mueller, L. J. Furnace Co.
 Schwab, R. J. Sons Co., 271 Clinton
 NEENAH—Bergstrom Bros & Co.

Furnaces (Jewelers')

Westmacott, J. M. Co. (Gas Blast), 159 Orange, Providence, R. I.

Furnaces (Lead)

BEST, W. N., AMERICAN CALORIFIC Co., 11 B'way, New York. (See adv. index, end of book)
 Focht, Geo. Sons (Pipe Line), Hoboken, N. J.
 Cyclopean Iron Works, Co., Jersey City, N. J.
 Loetzer Valve & Mfg. Co. (Furnace & Lead Pot Mounted on Wheels), Towanda, Pa.
 MacLeod, Walter & Co., 213 E. Pearl, Cincinnati
 Mueller, H. Mfg. Co., Decatur, Ill.
 Pollard, Jos. G., 141 Raymond, Brooklyn, N. Y.
 Smith, A. P. Mfg. Co. ("Economic"), Newark, N. J.
 Stuebner, G. L. Iron Works, 2th & Vernon av, Long Island City, N. Y.
 Union Iron Works, Hoboken, N. J.

Furnaces (Lead Tempering)

BEST, W. N., AMERICAN CALORIFIC Co., 11 B'way, New York. (See adv. index, end of book)
 Gilbert & Barker Mfg. Co., Springfield, Mass.
 Rockwell Engineering Co. (For Oil or Gas), 26 Cortlandt, New York

Furnaces (Liquid Boiling)

BEST, W. N., AMERICAN CALORIFIC Co., 11 B'way, New York. (See adv. index, end of book)
 Rockwell Engineering Co. (For Oil or Gas), 26 Cortlandt, New York
 WILE POWER GAS CO., Cutler bldg, Rochester, N. Y. (See adv. index, end of book)

*Furnaces (Malleable)

AMSLER ENGINEERING CO., Diamond Bank bldg., Pittsburg, Pa. (See adv. index & branch offices, end of book)

*Furnaces (Malleable Annealing)

BEST, W. N., AMERICAN CALORIFIC Co., 11 B'way, New York. (See adv. index, end of book)
 WHITING FOUNDRY EQUIPMENT Co., Harvey, Ill. (See adv. index & branch offices, end of book)

*Furnaces (Malleable Melting)

BEST, W. N., AMERICAN CALORIFIC Co., 11 B'way, New York. (See adv. index, end of book)
 WHITING FOUNDRY EQUIPMENT Co., Harvey, Ill. (See adv. index & branch offices, end of book)

Furnaces (Melting)

(See also Furnaces, Brass & Copper Melting)
 AMERICAN GAS FURNACE CO., 23 John, New York, & Elizabeth, N. J. (See adv. index, end of book)
 BEST, W. N., AMERICAN CALORIFIC Co., 11 B'way, New York. (See adv. index, end of book)
 Gilbert & Barker Mfg. Co., Springfield, Mass.
 Orchard, Alfred S., 49 Frankfort, New York
 WELLMAN-SEAEVER-MORGAN CO. ("Wellman," Rolling or Stationary), Cleveland, O., & Akron, O. (See adv. index, end of book)

Furnaces (Muffling & Charcoal Sinking)

MacKenzie's, Duncan Sons Co., Trenton, N. J.

Furnaces (Open Hearth)

AMSLER ENGINEERING CO., Diamond Bank bldg., Pittsburg, Pa. (See adv. index & branch offices, end of book)
 BEST, W. N., AMERICAN CALORIFIC Co., 11 B'way, New York. (See adv. index, end of book)
 Laughlin, Alex. & Co. (Continuous Heating), Lewis blk. Pittsburg, Pa.
 McClure, G. W. Son & Co., Bessemer bldg., Pittsburg, Pa.
 Philadelphia Roll & Machine Co., S 23d & Wash'n av, Phila., Pa.
 Pollock, Wm. B. Co., Youngstown, O.
 WHITING FOUNDRY EQUIPMENT Co., Harvey, Ill. (See adv. index & branch offices, end of book)

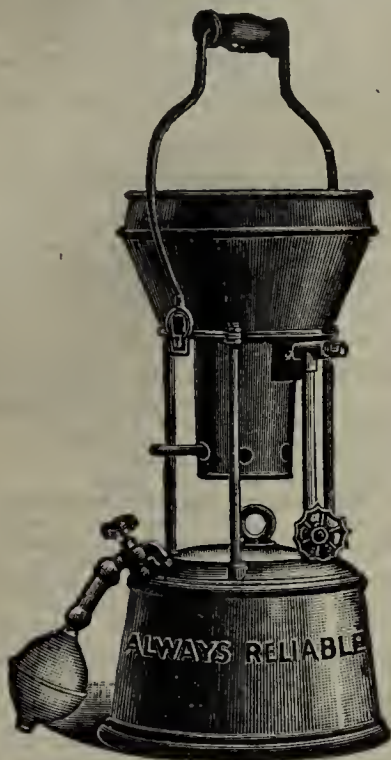
Furnaces (Plate Heating)

BEST, W. N., AMERICAN CALORIFIC Co., 11 B'way, New York. (See adv. index, end of book)
 Rockwell Engineering Co. (Oil or Gas for Fuel), 26 Cortlandt, New York
 WILE POWER GAS CO., Cutler bldg, Rochester, N. Y. (See adv. index, end of book)

Furnaces (Plumbers' & Tinnerns')

American Stove Co., 414 N 6th, St. Louis, Mo.
Archambault Co. (Kerosene), 15 Cortlandt, New York

Barnes Tool Co. (Kerosene), New Haven, Conn.
BERNZ, OTTO ("Always Reliable")
Kerosene & Gasoline, S 13th & S Orange av,
Newark, N. J. (See adv. below)

**FURNACES**

Uses less gasoline than any other furnace, and guaranteed to be in perfect condition when it leaves the factory. Packed one in a wooden box, properly labeled.

OTTO BERNZ, NEWARK, N. J.

Best Light Co., Canton, O.
BICKELHAUPT, G. SKYLIGHT W'KS
(Gas Soldering), 249 W 47th, New York.
(See adv. index, end of book)

Bowsky, L., 164 E 52d, N. Y.
Burgess Soldering Furnace Co., Columbus, O.
Clark, Geo. M. & Co., 72 Lake, Chicago, Ill.
Clayton & Lambert Mfg. Co., Trombly av &
Beaubien, Detroit, Mich.
Conran, Wm. F. & Son, 305 Pearl, New York
Crane, Wm. M. Co., 1133 B'way, N. Y.
Dicke Tool Co., Downers Grove, Ill.
Gefroerer, C., 248 N 8th, Philadelphia, Pa.
Haines, Jones & Cadbury Co., 1136 Ridge av,
Phila., Pa.

HAMMACHER, SCHLEMMER & CO.,
133 4th av, New York. (See adv. index, end of book)

Hull, J. S. Mfg. Co. ("Hull" Gasoline), Baltimore, Md.

JACOBSON MACHINE MFG. CO., Warren, Pa. (See adv. below)

Jenkins Kerosene Furnace Co., 79 E 130th, New York

Knapp Mfg. Co. (Blast Furnaces, etc.), 24 Frankfort, New York

Murray, Jno. A., 625 6th av, N. Y.

NIAGARA MACHINE & TOOL WKS.,
Buffalo, N. Y. (See adv. index, end of book)

Park & McKay Co., 55 Bagley av, Detroit, Mich.

Smith, Chas. G., 352 Pearl, New York

Sun Vapor Street Light Co., Canton, O.

Turner Brass Works, 66 Michigan, Chicago, Ill.

Union Heater Supply Co., 13 Macomb, Detroit, Mich.

***Furnaces (Producers', Gas)**

AMSLER ENGINEERING CO., Diamond Bank bldg., Pittsburg, Pa. (See adv. index & branch offices, end of book)

GAS POWER CO., New York. (See adv. index, end of book)

Combustion Utilities Co., 60 Wall, New York

WILE POWER GAS CO., Cutler bldg.,
Rochester, N. Y. (See adv. index, end of book)

Furnaces (Puddling)

BEST, W. N. AMERICAN CALORIFIC
Co., 11 B'way, New York. (See adv. index, end of book)

Philadelphia Roll & Machine Co., S 23d &
Washington av, Philadelphia, Pa.

Furnaces (Pyrites)

Atlanta Machine Works, 1 King, Atlanta, Ga.
Larrabee, H. C. & Co., Baltimore, Md.

Furnaces (Regenerating Gas)

Rockwell Engineering Co., 26 Cortlandt, New York

Swindell, Wm. & Bro., German National Bank bldg, Pittsburg, Pa.

WILE POWER GAS CO., Cutler bldg.,
Rochester, N. Y. (See adv. index, end of book)

***Furnaces (Re-Heating)**

AMSLER ENGINEERING CO., Diamond Bank bldg., Pittsburg, Pa. (See adv. index & branch offices, end of book)

BEST, W. N. AMERICAN CALORIFIC
Co., 11 B'way, New York. (See adv. index, end of book)

Morgan Construction Co., Worcester, Mass.

WILE POWER GAS CO., Cutler bldg.,
Rochester, N. Y. (See adv. index, end of book)

Furnaces (Revolving Forge)

BEST, W. N. AMERICAN CALORIFIC
Co., 11 B'way, New York. (See adv. index, end of book)

Pawtucket Mfg. Co., Pawtucket, R. I.

Rockwell Engineering Co. (Annealing, for Oil, Coal or Gas), 26 Cortlandt, New York

Furnaces (Rivet Heating)

BEST, W. N. AMERICAN CALORIFIC
Co., 11 B'way, New York. (See adv. index, end of book)

Gilbert & Barker Mfg. Co., Springfield, Mass.

Monarch Engineering & Mfg. Co. ("Steel-Harvey" Oil), Baltimore, Md.

Rockwell Engineering Co. (For Oil, Coal or Gas), 26 Cortlandt, New York

***Furnaces (Rivet Making)**

BEST, W. N. AMERICAN CALORIFIC
Co., 11 B'way, New York. (See adv. index, end of book)

Furnaces (Roll Tapering)

BEST, W. N. AMERICAN CALORIFIC
Co., 11 B'way, New York. (See adv. index, end of book)

Railway Materials Co. ("The Ferguson," Oil as Fuel), Old Colony bldg, Chicago, Ill.

***Furnaces (Rolling & Melting)**

BEST, W. N. AMERICAN CALORIFIC
Co., 11 B'way, New York. (See adv. index, end of book)

WELLMAN-SEEVER-MORGAN CO.
("Wellman"), Cleveland, O., & Akron, O.
(See adv. index, end of book)

Furnaces (Rotary)

BEST, W. N. AMERICAN CALORIFIC
Co., 11 B'way, New York. (See adv. index, end of book)

National Machinery Co. (For Heating Rods, etc.), Tiffin, O.

Furnaces (Salamander)

(See Salamanders)

Furnaces (Smelting, Roasting, Calsing, Etc.)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index and branch offices, end of book)

Arizona & Sonora Mfg. Co. (Wood Fuel), Mogales, Ariz.

BEST, W. N. AMERICAN CALORIFIC
Co., 11 B'way, New York. (See adv. index, end of book)

Braun, F. W. Co., Los Angeles, Cal.

Chisholm, Matthew & Co. ("Edwards"), Colorado Springs, Colo.

Colorado Iron Works Co., Denver, Col.

Davis, F. M. Iron Works Co., Denver, Col.

Denver Engineering Works Co., Blake & 30th, Denver, Colo.

Fulton Iron Works ("Wright-McDougall"), San Francisco, Cal.

Hamilton, Wm. Mfg. Co., Petersburg, Ont., Can.

Harron, Rickard & McCone (Inc.), San Francisco, Cal.

Hendy, Joshua, Machine Works, 38 Fremont, San Francisco, Cal.

KOVEN, L. O. & BRO., 50 CHIN, New York. (See adv. index, end of book)

THE SUPERIOR GAS SOLDERING FURNACE

Thousands in use. Made for natural, illuminating or producer gas, for one or two irons. Hundreds sold every month on repeat orders. The high temperature developed in the furnace chamber is terrific. Try one, and it will be understood why hundreds of these are sold in cases where the first proves the last sold of other makes.

JACOBSON MACHINE MFG. CO., Warren, Pa.

G. M. YOST MFG. CO., MECHANICSBURG, PA., Sole Agents

Mecklenberg Iron Works, Charlotte, N. C.
 Mine & Smelter Supply Co., Denver, Colo.
 Nichols Copper Co. ("Herreshoff" Roasting), 25 Broad, New York
 Power & Mining Machinery Co. ("Bruecker" Roasting Furnace, etc.), 52 William, New York. Works, Cudahy, Wis.
REEVES BROS. CO. (Roasting, Calsing, etc.), Alliance, O. (See adv. index, end of book)
 Stearns-Rogers Mfg. Co., 1718 California, Denver, Col. Works, Pueblo, Col.
 Traylor Engineering Co., 114 Liberty, New York
 Union Iron Works, San Francisco, Cal.
 Union Iron Works (Inc.), Spokane, Wash'n
WELLMAN-SEEVER-MORGAN CO. (Smelting), Cleveland, O., & Akron, O. (See adv. index, end of book)
WILE POWER GAS CO., Cutler bldg., Rochester, N. Y. (See adv. index, end of book)

Furnaces (Smokeless)

(See also Mechanical Stokers.)

Brightman Furnace Co., 648 Broadway, Cleveland, O.
 Bonson Furnace & Boiler Co. ("Bonson" Furnace & Boiler), 204 Dearborn, Chicago, Ill.
 Burke, James V., 185 Dearborn, Chicago, Ill.
 Butman Engineering Co., Monadnock blk, Chicago, Ill.
 Crowe, Paul L., 47 Montgomery, Jersey City, N. J.
 Gallagher Boiler Setting Co., 29 B'way, N. Y.
 Harris, J. B. ("Harris" Smoke Consuming), Nashville, Tenn.
 Hawley Down Draft Furnace Co., Superior & Townsend, Chicago, Ill.
 Herbert, M. E. Heater Co., 240 Root, Chicago, Ill.
 Jarvis Engineering Co., 61 Oliver, Boston, Mass.
 Love Bros. (Inc.) (Self-Feeding), Aurora, Ill.
 McMillan, Jas. & Co., 219 Wash'n, Chicago, Ill.
 Murphy Iron Works ("Murphy" Automatic), ft of Walker, Detroit, Mich.
 Orvis Down Draft Boiler & Furnace Co., 277 B'way, New York
 Unique Engineering Co. ("Unique"), 100 Hinsdale, Brooklyn, N. Y.
 Walker, Robert L., 15 Park row, New York
WESTINGHOUSE MACHINE CO., The, (Roney), Westinghouse bldg, Pittsburgh, Pa.

Furnaces (Soldering)

(See Furnaces, Plumbers' & Tanners'.)

*Furnaces (Steel Annealing)

(See also Furnaces, Annealing, Etc.)

BEST, W. N. AMERICAN CALORIFIC Co., 11 B'way, New York. (See adv. index, end of book)
WHITING FOUNDRY EQUIPMENT Co., Harvey, Ill. (See adv. index & branch offices, end of book)

*Furnaces (Steel Melting)

BEST, W. N. AMERICAN CALORIFIC Co., 11 B'way, New York. (See adv. index, end of book)
KOVEN, L. O. & BRO., 50 CHIF, New York. (See adv. index, end of book)
WHITING FOUNDRY EQUIPMENT Co., Harvey, Ill. (See adv. index & branch offices, end of book)

*Furnaces (Sulphur)

BETHLEHEM FOUNDRY & MACHINE Co., Front, South Bethlehem, Pa., & 149 B'way, New York. (See adv. index, end of book)
 Schutte & Koerting Co. (Beet Sugar or Glue, etc.), 1251 N 12th, Phila., Pa.

Furnaces (Tempering)

(See Furnaces, Annealing & Case Hardening.)

Furnaces (Tire Heating)

Gilbert & Barker Mfg. Co., Springfield, Mass.
 Kane & Roach (Gas), Syracuse, N. Y.
 Williams, White & Co., Moline, Ill.

*Furnaces (Welding, Regenerative)

WILE POWER GAS CO., Cutler bldg., Rochester, N. Y. (See adv. index, end of book)

Furnaces (Wire Baking & Annealing)

BEST, W. N. AMERICAN CALORIFIC Co., 11 B'way, New York. (See adv. index, end of book)
 Rockwell Engineering Co. (Oil, Coal or Gas), 26 Cortlandt, New York
WRIGHT WIRE CO., Worcester, Mass.

Furnaces (Wood Burning)

(See also Furnaces, Hot Air, Mfrs.)

Berghstrom Bros. & Co., Neenah, Wis.
 Claudia & Meyer, Adrian, Mich.
 Dean, Walter R., Oakam, Mass.
 Hart & Crouse Co., Utica, N. Y.
 International Heater Co., Utica, N. Y.
 Lennox Machine Co. (Also for Hard & Soft Coal), Marshalltown, Ia.
 Miller Furnace Co., Grand Rapids, Mich.
 Monroe Foundry & Furnace Co., Monroe, Mich.
 Schili Bros. Co., Crestline, O.
 Wood & Bishop Co., Bangor, Me.

Furniture (Bamboo)

Boston Bamboo Co., 117 Portland, Boston, Mass.
 Klein Bros., 630 W. 52d, New York
 Heinecke, Adolph & Son, ft of Mason, Milwaukee, Wis.
 Minneapolis Bedding Co., Minneapolis, Minn.
 National Carriage & Reed Co., Cincinnati, O.
 West Branch Novelty Co., Milton, Pa.

*Furniture (Bank & Office)

ANDREWS, A. H. CO., 174 Wabash av, Chicago, Ill. (See adv. below; branch offices, end of book)
FULLERTON CO. (Special Handling of Artistic Metallic Furniture & Fittings), 5 & 7 E 42d, New York
STAFFORD, E. H. MFG. CO., 262 Wabash av, Chicago, Ill. (See adv. on following page)

Furniture (Bank & Office, Metallic)

(See Bank and Office Fixtures, Metallic; also Furniture, Metallic.)

Furniture (Church & Lodge)

Abramson, Engesser Co., 1971 1st av, New York
 Ahmann, M. & Co., 431 Main, Cincinnati, O.
 Ahnapee Veneer & Seating Co. (Veneer Seating, etc.), Algoma, Wis.
 Alexander, R., 195 Osland av, E. Minneapolis, Minn.
 Allen-Thompson-Whitney Co., 112 Canal, Boston, Mass.
 American School Furniture Co. (Seating, etc.), 21 W 18th, New York
ANDREWS, A. H. CO. (Seating, etc.), 174 Wabash av, Chicago, Ill. (See adv. below; branch offices, end of book)
 Architectural Woodworking Co., 3019 Chestnut, Philadelphia, Pa.
 Bent, G. W. & Co. (Cushions & Kneeling Stools), 93 Causeway, Boston, Mass.
 Choate, W. A. Co. (Pews, Chairs & Pulpits, Communion Tables, etc.), 24 State, Albany, N. Y.
 Cincinnati Seating Co. (Altars, Pews, Reversible Settees, etc.), Cincinnati, O.
 Corn Palace Mfg. Co., Sioux Falls, Ia.
 De Wolf Furniture Co., Garnett, Kan.
 Frier, Geo. L., Tacoma, Wash.
 Geissler, R., 56 W 8th, New York
 Hackner, E. (Altars, Pulpits, Statuary, etc.), 1235 Ferry, La Crosse, Wis.
 Halatrick, Anthony (Sculptor & Carver), 630 South av, Rochester, N. Y.
 Hogeman, Chas. F., 105 E 17th New York
 Hyde-Murphy Co. (Seats, Pulpits, Pew Ends, etc.), Ridgway, Pa.
 Lamb, J. & R. (Inc.), 25 6th av, New York
 Lausberg & Macke, Louisville, Ky.
 McClees, L. B. & Co., 1026 Arch, Phila., Pa.
 Maxon & Co. (Pews), Westerly, R. I.
 Michigan Apparatus Co., Ann Arbor, Mich.
 Minneapolis Office & School Furniture Co., Minneapolis, Minn.
 Mitchell, Robert, Furniture Co., 624 Race, Cincinnati, O.
 Mitchell, T. H., Salisbury, Md.
 Moore Mfg. Co., Springfield, Mo.
 N. J. School & Church Furniture Co., Trenton, N. J.
 Oicott, J. M., 63 5th av, New York
 Osker & Ford Mfg. Co. (Seating, etc.), Grand Rapids, Mich.
 Pratt, Amasa & Co., 106 Dutton, Lowell, Mass.
 Readsboro Chair Mfg. Co., Readsboro, Vt.
 Retting Furniture Co. (Lodge Only), Grand Rapids, Mich.
 Richardson, H. H. & Co. (Mfrs.' Agts.), Jacksonville, Fla.
 Rowies, E. W. A., 177 Monroe, Chicago, Ill.
 St. Paul Furniture Co., 7 Corners, St. Paul, Minn.
 Sanford Sash & Blind Co. (Pews), Sanford, N. C.
 Sauder, J. M. Co. (Inc.), Marietta, Pa.
 Schmid, Geo. A. (Altars, etc.), 702-14 E Main, Streator, Ill.
 Schmit, Henry & Co., 1069 Hopkins, Cincinnati, O.
 Shaw, A. B. & E. L. Co. (Furniture), 81 Causeway, Boston, Mass.
 Sherwood Co. (Church Seating Only), 14th & Lincoln, Chicago, Ill.
 Small, S. C. & Co. (Furniture), 90 Canal, Boston, Mass.



The A. H. Andrews Co.

Largest Mfrs. of

School Furniture, Opera Chairs, Assembly Seating, Church Furniture

Designers and Manufacturers of High Grade Bank and Office Fixtures and Furniture. Satisfactory work of any kind can be had only of the specialist. Forty years of practical experience in planning the equipments of banks has made the A. H. Andrews Co. the most successful and most highly regarded bank designers in the world. They have designed, planned or equipped over five thousand (5000) banks in America—nearly one-third of all the banks in the United States.

Andrews Steel Rod Typewriter and Office Chairs

Always cleanly, attractive, comfortable, indestructible and inexpensive. Jap, copper plated and polished. Send for catalogues either department.

The A. H. Andrews Co., { 174 Wabash Ave., Chicago
 { 1170 Broadway, N. Y.



STAFFORD, E. H. MFG. CO., 262 Wabash av., Chicago, Ill. (See adv. below)
Standard School Furnishing Co., 2023 Clark, Chicago, Ill.

STEARNS, A. T. LUMBER CO., Neponset, Boston, Mass. (See adv. index, end of book)

Stephens, Thomas & Sons (Inc.), 275 Lark, Albany, N. Y.

Stoltzenberg Co., 51 Barclay, N. Y.

Thomas & Co., Worcester, Mass.

Tiffin Mfg. Co., (Pews, Pulpits, Altars, Altar Railings, etc.), Tiffin, O.

Vauhan-Bonsall Co., Salem, O.

Washington Mfg. Co., Tacoma, Wash.

Woodman, Joel B. (Pews, etc.), 15th & Clinton, Hoboken, N. J.

Furniture (Dental & Surgical)

Harvard Co., Canton, O.

McRae & Roberts Co., Detroit, Mich.

Michigan Lubricator Co., Detroit, Mich.

Wolf, Fred. W. Co. (Expansion, Gauge, etc.), 141 Rees, Chicago, Ill.

Furniture for Public Buildings

ANDREWS, A. H. CO., 174 Wabash av., Chicago, Ill. (See adv. on preceding page; branch offices, end of book)

Art Metal Construction Co. (Metallic), Jamestown, N. Y.

Duker, Otto & Co., Canton av & Albemarle, Baltimore, Md.

Matthews Bros. Mfg. Co., 61 4th, Milwaukee, Wis.

Mitchell, Robert Furniture Co., 624 Race, Cincinnati, O.

Mowday, D. L., Norristown, Pa. (Leather covered)

Ohnstrand Metal Furniture Co. (Metallic), Jamestown, N. Y., & 5 & 7 E 42d, New York City

Revell, A. H. & Co., Wabash av & Adams, Chicago, Ill.

Richardson, H. H. & Co. (also Opera House) (Mfrs. Agts.), Jacksonville, Fla.

STAFFORD, E. H. MFG. CO., 262 Wabash av., Chicago, Ill. (See adv. below)



Every Article Bearing this Trade Mark has Distinctive Merit in Craftsmanship and Artistic Finish.

UNION EQUIPMENT AND BRONZE CO.

514-520 WEST 36TH ST. NEW YORK

WRITE FOR PRICES

Wollaeger Mfg. Co., 636 N Water, Milwaukee, Wis.

Furniture (Hospital)

Bernstein Mfg. Co. (Also All Kinds of Apparatus & Supplies), 3d & Westmoreland, Philadelphia, Pa.

Sargeant Mfg. Co., Muskegon, Mich.

Furniture (Knocked Down)

Bockstege Furniture Co. (Tables, etc.), Evansville, Ind.

Cron, L. C. & W. L. Co., Piqua, Ohio

Gunn Furniture Co. (Bookcases), Grand Rapids, Mich.

Humphrey Bookcase Co. (Bookcases), Detroit, Mich.

Imperial Furniture Co. (Tables, etc.), Grand Rapids, Mich.

Mohawk Mfg. Co., Mohawk, N. Y.

New Way Furniture Co. (Unfurnished Furniture Parts), Detroit, Mich.

*Furniture (Lawn & Porch)

CHICAGO MILL WORK SUPPLY CO. (Wood), 22d & Sangamon, Chicago, Ill. (See adv. index, end of book)

STAFFORD, E. H. MFG. CO., 262 Wabash av., Chicago, Ill. (See adv. below)

*Furniture (Leather Covered)

STAFFORD, E. H. MFG. CO., 262 Wabash av., Chicago, Ill. (See adv. below)

Furniture (Metallic)

(See also Bank & Office Fixtures, Metallic.)

ANDREWS, A. H. CO. (Chairs, Stools, Tables, etc.), 174 Wabash av., Chicago, Ill.

(See adv. on preceding page; branch offices, end of book)

BERGER MFG. CO., Canton, O. (See adv. index & branch offices, end of book)

CANTON ART METAL CO., Canton, O. (See adv. index, end of book)

GENERAL FIRE-PROOFING CO., Youngstown, O., & 156 5th av., New York.

(See adv. index & branch offices, end of book)

Library Bureau, 530 Atlantic av., Boston, Mass.

MERRITT & CO. (For Public Buildings), 1024 Ridge av., Philadelphia, Pa. (See adv. index, end of book)

Ohnstrand Metal Furniture Co., Jamestown, N. Y., & 5 & 7 E 42d, New York

SMITH, F. P. WIRE & IRON WORKS. 100 Lake, Chicago, Ill. (See adv. index, end of book)

Yesbera Mfg. Co. (Tables, Chairs & Stools for Stores), Toledo, Ohio.

*Furniture Panel Stock

STEARNS, A. T. LUMBER CO., Neponset, Boston, Mass. (See adv. index, end of book)

Furniture (Post Office)

St. Paul Furniture Co., 7 Corners, St. Paul, Minn.

Wollaeger Mfg. Co., 636 N Water, Milwaukee, Wis.

Furniture (Printers' Wood)

(See Printers' Wood Furniture.)

Furniture (Rattan & Reed)

American Go-Cart Co., Detroit, Mich.

Bay State Chair Co., New Bedford, Mass.

Beyer, J. F., Worcester, Mass.

Bishop & Dickinson, Baldwinville, Mass.

Capitol Rattan Co., Indianapolis, Ind.

Carter, C. L. & Co., Winchendon, Mass.

Conway Chair Co., Conway, N. H.

Curran, James F. & Co., South Framingham, Mass.

Dearborn Desk Co., Chicago, Ill.

Detroit Rattan & Reed Works, Detroit, Mich.

Dickerman, J. A., Gardner, Mass.

Dunn, John A. Co., Gardner, Mass.

Ehlers, Robert J. Co., New York

Ford & Johnson, Chicago, Ill.

Gendron Wheel Co., Toledo, O.

Hartshorn, C. H., Gardner, Mass.

Hechinger Bros. & Co., Baltimore, Md.

Heywood Bros. & Wakefield Co., Gardner, Mass.

Jansen, Ed., New York

Jenkins-Phipps Co., Wakefield, Mass.

Kelly Bros., Gardner, Mass.

Kinley Mfg. Co., Chicago, Ill.

Kurtz, N. M. Co., San Francisco, Cal.

Lattimer, W. H. & Sons, Orwell, N. Y.

May's Rattan Works, Chicago, Ill.

Merritt Bros., Hecla, N. Y.

Minneapolis Baby Carriage Co., Minneapolis, Minn.

Monumental Carriage Factory, Baltimore, Md.

Mount Vernon Rattan Co., Mount Vernon, N. Y.

Murphy Chair Co., Detroit, Mich.

National Carriage & Reed Co., Cincinnati, O.

National Carriage & Go-Cart Co., Faribault, Minn.

Newburgh Reed Co., Newburgh, N. Y.

New England Reed Co., Boston, Mass.

Omaha Reed & Rattan Works, Omaha, Neb.

Piel Bros. Mfg. Co., Indianapolis, Ind.

Pioneer Mfg. Co., Detroit, Mich.

Rattan Mfg. Co., New Haven, Conn.

Ryan Rattan Chair Co., Grand Rapids, Mich.

St. Louis Rattan Co., St. Louis, Mo.

Sons-Cunningham Rattan Co., New York

Theise, Fred., Boston, Mass.

Twin City Reed & Rattan Co., St. Paul, Minn.

Union Reed Chair Co., East Templeton, Mass.

Virgin, J. M. & Son, Saco, Me.

Wakefield Mfg. Co., Wakefield, Mass.

White River Chair Co., Brattleboro, Vt.

Whitney Reed Chair Co., Leominster, Mass.

Whitson & Hoyle Co., South Framingham, Mass.

Ypsilanti Reed Furniture Co., Ionia, Mich.

Furniture (School)

Allen, D. Webster (Settees, Folding Chairs, etc.), 90 Canal, Boston, Mass.

Allen-Thompson-Whitney Co. (Settees, Folding Chairs, etc.), 112 Canal, Boston, Mass.

American School Furniture Co. (Automatic Desks, Seats, etc.), 21 W 18th, New York

ANDREWS, A. H. CO. (Furniture), 174 Wabash av., Chicago, Ill. (See adv. on preceding page; branch offices, end of book)

Caxton Co., 378 Wabash av., Chicago, Ill.

Chandler Adjustable Chair & Desk Co., 165 Devonshire, Boston, Mass.

Choate, W. A. Co. (Seats, Desks, Settees & General Supplies), 24 State, Albany, N. Y.

Cinn. Seating Co. (Seats, Apparatus & Supplies), 6th & Vine, Cincinnati, O.

Columbus School Desk Co., Columbus, Ga.

We are Manufacturers

SEATING

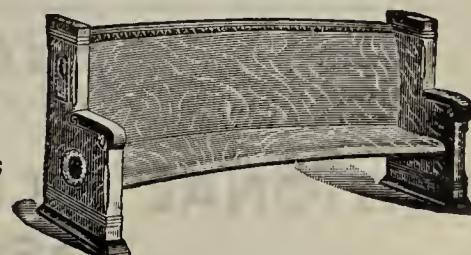
For Schools,
Operas and
Churches

OFFICE DESKS GREAT VARIETY

Lodge Furniture, Upholstered Chairs and Settees.

E. H. STAFFORD MFG. COMPANY

CHICAGO, ILL.



STATE WHAT IS
WANTED AND
ASK FOR
CATALOG

De Wolf, Geo. N., Garnett, Kan.
 Evans, R. & Co. (Also Charts), Green Bay, Wis.
 Favorite School Desk Co. (Apparatus), 7419
 Platt, S. E., Cleveland, O.
 Fritz & Goedel Co. (Desks, etc.), 95
 Alabama, Grand Rapids, Mich.
 Gage, J. F. & Co. (Seating Desks, etc.), Min-
 neapolis, Minn.
 Haney School Furniture Co. (and Supplies), 63
 5th av. N. Y.; Grand Rapids, Mich.
 Household Sewing Machine Co., Providence, R. I.
 Kansas City Furniture & Bedding Manufactory,
 Kansas City, Mo.
 McClees, L. B. & Co. (Apparatus & Supplies),
 1026 Arch, Phila., Pa.
 Michigan Apparatus Co., Ann Arbor, Mich.
 Minneapolis Office & School Furniture Co., Min-
 neapolis, Minn.
 Moore Mfg. Co., Springfield, Mo.
 N. J. School & Church Furniture Co., Trenton,
 N. J.
 Pacific Coast School Furniture Co., Forest
 Grove, Ore.
 Rowles, E. W. A., 177 Monroe, Chicago, Ill.
 Sauder, J. M. Co. (Inc.), Marietta, Pa.
 Sherwood Co. (Automatic Folding Top Desks,
 Seats, etc.), c 14th & Lincoln, Chicago, Ill.
 Smith, S. A. Co. (Settees Made Same as Desk
 Seats), Brattleboro, Vt.
STAFFORD, E. H. MFG. CO., 262
 Wabash av, Chicago, Ill. (See adv. on pre-
 ceding page)
 Standard School Furnishing Co., 2023 Clark,
 Chicago, Ill.
 Woodruff & Edwards Co. (Desks, etc.), Elgin,
 Ill.

*Furniture (Steel Rod)

**ANDREWS, A. H. CO. (Standards of
 Chairs, Stools & Tables),** 174 Wabash av,
 Chicago, Ill. (See adv. index & branch of-
 fices, end of book)

*Furniture & Draperies

DECORATIVE ARTS CO., 527 5th av.,
 New York. (See adv. index, end of book)

Furring & Lathing (Iron)

McCartney, R. G. (Steel), 110 W 34th, New York
MERRITT & CO., 1024 Ridge av,
 Phila., Pa. (See adv. index, end of book)
 Monahan, Martin J., 1123 B'way, New York
 Schratwieser, C., 426 3d av, Brooklyn, N. Y.
 Voss, Fredk., 617 Austin av, Chicago, Ill.

Fuse (Railway Signal)

(See Torpedoes & Fuses Railway Signal)

*Fuse Links ("Shawmut" Tested)

**CHASE-SHAWMUT CO. ("Shawmut"
 Tested),** Newburyport, Mass. (See adv. be-
 low)

Fuse Wire

American Electrical Works, Providence, R. I.
 American Electric Fuse Co., 116 Nassau, New
 York.

CHASE-SHAWMUT CO., Newbury-
 port, Mass. (See adv. below)
 Chicago Fuse Wire & Mfg. Co., Kedzie bldg.,
 Chicago, Ill.
 Foote, Pierson & Co., 84 Fulton, N. Y.
**GENERAL ELECTRIC CO., Schenec-
 tady, N. Y., & 44 Broad, New York.** (See
 adv. index & branch offices, end of book)
 Harvard Electric Co., 60 W Van Buren, Chicago
 McIntire, C. Co., 13 Franklin, Newark, N. J.
 Sterling Electric Co., Lafayette, Ind.

Fuses

American Electric Fuse Co., 116 Nassau, New
 York.
CHASE-SHAWMUT CO., Newbury-
 port, Mass. (See adv. below)
 Chicago Die & Electric Co., 87 W Lake, Chi-
 cago
 Chicago Fuse Wire & Mfg. Co., Kedzie bldg.,
 Chicago, Ill.
**D & W FUSE CO. ("D & W" En-
 closed Cartridge or Plug Type),** Providence,
 R. I. (See adv. index, end of book)
 Foote, Pierson & Co. ("W. B. G." Accurate
 Sneak Current), 84 Fulton, New York
**GENERAL ELECTRIC CO., Schenec-
 tady, N. Y., & 44 Broad, New York.** (See
 adv. index, end of book)
 Harvard Electric Co., 60 W Van Buren, Chi-
 cago, Ill.
 Johns-Pratt Co., The ("Noark"), Hartford,
 Conn.
 McIntire, C. Co., 1 Franklin, Newark, N. J.
 Ohio Fuse Co. (Open), Mansfield, O.
 Scott Bros. Electric Co., 7 Farrar, Detroit,
 Mich.
 Smith, H. Jullus, Pompton, N. J.
 Sterling Electric Co., Lafayette, Ind.
 Vomacka & Mazanek, 434 E 71st, New York
 Western Electric Co., 259 S Cluuton, Chicago,
 Ill., & 57 Bethune, N. Y.

Fuses (Enclosed)

Bryant Electric Co. (Electric), Bridgeport, Conn.
**CHASE-SHAWMUT CO. (National
 Elec. Code Standard),** Newburyport, Mass.
 (See adv. below)
 Johns-Pratt Co., The ("Noark"), Hartford,
 Conn.
 Ohio Fuse Co. (Renewable), Mansfield, O.

Gadders (Air)

INGERSOLL - RAND CO., 11 B'way,
 New York. (See adv. index & branch offices,
 end of book)

Galleries (Riding)

(See also Carousels, Organs, etc.)

Gillie Engine & Machine Co., Tonawanda, N. Y.
 Herschell, Spillman & Co., N Tonawanda, N. Y.
 Parker, C. W., Abilene, Kaus.

Galvanized Iron Pipe Mfrs.

(See Pipe, Galvanized Iron)

Galvanized Iron Store Fronts

(See Store Fronts, Galvanized Iron)

Galvanizing (Cold Process)

California Industrial Co., Los Angeles, Cal.
 Hanson & Van Winkle Co., Newark, N. J.
 Indiana Galvanizing & Mfg. Co., Anderson, Ind.
 United States Electro Galvanizing Co. (Plants
 Installed), 3 Park av, Brooklyn, N. Y.

*Galvanizing (Hot Process)

ABENDROTH & ROOT MFG. CO.
 (Two Baths, each 2 ft. 6 inches x 4 ft. x 23
 ft.), Newburgh, N. Y. (See adv. index &
 branch offices, end of book)

*Galvanizing Plants (Complete)

WILFONG BROS., 52d & Grays av,
 Phila., Pa. (See adv. on following page)

Galvanizing Works

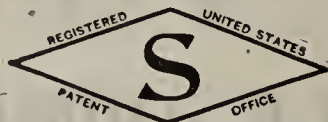
(See also Tinning & Japanning)

American Galvanizing & Tin Plate Co., 816 E.
 Pearl, Cincinnati, O.
 American Galvanizing Works (Angles, Bars
 & Bands, etc., Black & Galvanized), 1247
 Fillmore, Chicago.
 American Tube & Stamping Co., Bridgeport,
 Conn.
 Baltimore Galvanizing Works, 207 Hughes av.,
 Baltimore, Md.
 Boston Galvanizing Works, 121 W. 1st, Boston
 Briscoe Mfg. Co., Detroit, Mich.
 Buffalo Galvanizing & Tinning Works (Also
 Tinning), 79 Jackson, Buffalo, N. Y.
 Buhl Stamping Co. (also Tinning), Detroit,
 Mich.
 California Industrial Co., Los Angeles, Cal.
 Central Stamping Co., 24 Cliff, New York.
 Cleveland Galvanizing Works, 24 Cooper, Cleve-
 land, O.
 Devlin, Thos. Mfg. Co., 3d & Lehigh av., Phila.,
 Pa.
 Dover Stamping & Mfg. Co., Cambridge, Mass.
 Finn, Jno. Metal Works, 315 Howard, San
 Francisco, Cal.
 Gregory, Thos. Galvanizing Works, 63 Frost,
 Brooklyn, N. Y.
 Hill, Jas. Mfg. Co., Providence, R. I.
 Hubbard & Co., Pittsburg, Pa.
 Illinois Malleable Iron Co., 30 W Monroe,
 Chicago, Ill.
 Indiana Galvanizing & Mfg. Co., Anderson, Ind.
 Jersey City Galvanizing Co., 112 John, New
 York, & 80 Morgan, Jersey City, N. J.
 Keystone Nail Co., 1618 Wash'n av., Phila.,
 Pa.
 Koven, L. O. & Bro., 50 Cliff, N. Y.
 Lanz, Mathew & Sons, 101 S 29th, Pittsburg,
 Pa.
 Laughlin, Thos. Co., Portland, Me.
 Lefferts' Galvanizing Works, 508 E 20th, New
 York
 Lefferts, Jno. C., Smith, Bush & Hamilton avs,
 Brooklyn, N. Y.
 McCaull Co., Pittsburg, Pa.
 Malleable Iron Fitting Co. (also Tinning &
 Japanning), Branford, Conn.
 Marine Hardware & Equipment Co., South
 Portland, Me.

"SHAWMUT"

NATIONAL ELECTRIC CODE ENCLOSED FUSES, BASES AND FUSE FITTINGS

THE FUSE WITH THE BLACK



TUBE AND COPPER FINISH

WRITE FOR BULLETIN

CHASE-SHAWMUT COMPANY, - - Newburyport, Mass.

Meaker Co., 44 Elizabeth, Chicago, Ill.
MILWAUKEE CORRUGATING CO.,
 Milwaukee, Wis. (See adv. index, end of book)

Murphy, P. H. Mfg. Co., East St. Louis, Mo.
 National Galvanizing Works, McKeesport, Pa.
 National Galvanizing Tinning & Supply Co.
 (Galvanizing & Tinning of Every Description), 981 N Front, Phila., Pa.
 Ohio Foundry Co., Cleveland, O.
 Oliver, Wilbur C., Bath, Me.
 Penna. Galvanizing Co. (Ltd.), 2130 Race, Phila., Pa.

Pleuger & Henger Mfg. Co., 11th & Hebert, St. Louis, Mo.

Porter Metal Works, San Francisco, Cal.

Queen City Galvanizing Works, 1965 Central av., Cincinnati, O.

Republic Metalware Co., Buffalo, N. Y., & 21 Cliff, New York

Rockford Galvanizing Works, Rockford, Ill.
SCAIFE, WM. B. & SONS CO., 221 1st av., Pittsburg, Pa. (See adv. index, end of book.)

Simpson, W. T. & Co., 816 E. Pearl, Cincinnati, O.

United Galvanizing Co. (Inc.) (All Kinds for all Purposes), 525 N Front, Phila., Pa.

United States Electro-Galvanizing Co., 3 Park av., Brooklyn, N. Y.

White Mountain Freezer Co. (also Tinning), Nashua, N. H.

Wilcox, Crittenden & Co. (& Tinning), Middletown, Conn.

Woodman, Geo. Co., 41 Pearl, Boston, Mass.
WRIGHT WIRE CO., Worcester,
 Mass. (See adv. index & branch offices, end of book)

*Galvanizing & Tinning Plants (Wire Mill)

WRIGHT WIRE CO., Worcester,
 Mass.

Galvano-Bronze Work

Hecla Iron Works, 118 N 11th, Brooklyn, N. Y.
JACKSON, WM. H. COMPANY, 29 E 17th (Union sq), New York. (See adv. index, end of book)

Schreiber, L. & Sons Co., 8th & Eggleston av., Cincinnati, O., & 1133 B'way, New York

Galvanometers & Bridges

Biddle, Jas. G., Stephen Girard bldg., Phila., Pa.

Bunnell, J. H. & Co., 20 Park pl., New York.
 Foote, Pierson & Co. ("Delta"), 82 Fulton, New York

Gleeson, Thos. W., 106 Sudbury, Boston, Mass.

Keystone Electrical Instrument Co., 9th & Montgomery av., Philadelphia, Pa.

Leeds & Northrop Co., 259 N. Broad, Phila., Pa.

Machado & Roller, 230 B'way, N. Y. City.

Manufacturers & Inventors Electric Co., 84 Nassau, New York

Pearce, Frederick Co., 18 Rose, New York
QUEEN & CO. (Inc.), n. w. c 8th & Arch, Philadelphia, Pa. (See adv. index, end of book)

Ritchie, E. S. & Sons, opp. Brookline Hill Station, Boston, Mass.

Western Electric Co., 259 S. Clinton, Chicago, & 57 Bethune, N. Y.

Weston Electrical Instrument Co., Waverly Park, Newark, N. J.
 Whitney Electrical Instrument Co., Penacook, N. H.
 Willyoung, Elmer G., 11 Frankfort, New York

Gang Rippers

American Woodworking Machinery Co., Rochester, N. Y., West st. bldg. N. Y.
 Filer & Stowell Co., Home Office, Milwaukee, Wis.
 Garland, M. Co., Bay City, Mich.
 Standard Saw Mill Machinery Co., Erie, Pa.
 Union Iron Works, Bangor, Me.

*Garbage Cans (Seamless Pressed Steel)

PRESSED STEEL TANK CO., Milwaukee, Wis. (See adv. index, end of book)

Garbage Disposal Plants

(See also Sewage Disposal Plants)

American Extractor Co., Providence, R. I.
 American Reduction Co., 1942 Forbes, Pittsburg, Pa.

American Sewage Disposal Co., 45 Milk, Boston, Mass.

Bridgeport Boiler Works, Bridgeport, Conn.
 Clinton Foundry & Mach. Co., 95 Liberty, New York

Cragin, Morgan J. (Combined Garbage, Crematory & Hot Water Heater), 285 E. 43d, Chicago, Ill.

Currier, Cyrus & Sons, Newark, N. J.
 Davis Garbage Furnace Co., Lancaster, Pa.

Decarie Mfg. Co., 23 S 2d, Minneapolis, Minn.

Dixon Garbage Crematory Co., Toledo, O.

Edison Reduction Machinery Co. (Garbage Reduction), Cleveland, O.

Garrigues, W. E., 1123 B'way, N. Y.
 Illinois Malleable Iron Co. ("Imico"), 30 W Monroe, Chicago, Ill.

Lewis & Kitchen, 433 Wabash av., Chicago, Ill.

Morse-Boulger Destructor Co., 39 Cortlandt, New York

Municipal Engineering Co., 237 B'way, New York

Penna. Construction Co., Marietta, Pa.
 Sanitary Product Co., Fidelity bldg, Phila., Pa.

Williams, Proctor & Potts (Inc.), Whitehall bldg, New York

Gas Bags (Rubber)

Cleveland Rubber Co., Cleveland, O.
 Davol Rubber Co., Providence, R. I.

Goodrich, B. F. Co., Akron, O.
 Gutta Percha & Rubber Mfg. Co., 126 Duane, New York

National India Rubber Co., Bristol, R. I.

Peerless Rubber Mfg. Co., 16 Warren, New York

Tyer Rubber Co., Andover, Mass.

Voorhees Rubber Mfg. Co., Jersey City, N. J.

Gas Composimeters

Uehling-Decker Co., Passaic, N. J.

Gas Engine Igniters

(See Igniters, Gas & Gasoline Engine.)

Gas Fixtures

(See Gas & Electric Fixtures)

Gas Fixtures (Wrought Iron)

BRADLEY & HUBBARD MFG. CO., Meriden, Conn. (See adv. index, end of book)

Hecla Iron Works, 118 N 11th, Brooklyn, N. Y.

JACKSON, WM. H. COMPANY, 29 E 17th (Union sq), New York. (See adv. index, end of book)

Koehn, Alfred, 159 W 29th, New York

Perelson, L., 204 Centre, New York

Rose & Hastie, 754 Lexington av., Brooklyn, Williams Jno., 556 W 27th, N. Y.

WISCONSIN IRON & WIRE WORKS, 190 E Water, Milwaukee, Wis. (See adv. index, end of book)

*Gas Generators

GAS POWER CO., New York. (See adv. index, end of book)

Gas Heating & Cooking Stoves

(See Stoves, Heaters & Ranges, Gas)

Gas Holders

Bartlett, Hayward & Co., Baltimore, Md.

Continental Iron Works, West & Calyer, Brooklyn, N. Y.

Cruse-Kemper Co., Ambler, Pa.

Davis & Farnum Mfg. Co., Waltham, Mass.

Deliy & Fowler, 39 Laurel, Phila., Pa.

Dillon, D. M., Fitchburg, Mass.

Hamler Boiler & Tank Co., 3906 S. Halsted, Chicago, Ill.

Heiman Boiler Works, Allentown, Pa.

Kerr-Murray Mfg. Co., Ft. Wayne, Ind.

Koven, L. O. & Bro., 50 Cliff, New York.

PETROLEUM IRON WORKS CO., Washington, Pa., & Farmers Bank bldg, Pittsburg, Pa. (See adv. index, end of book)

Riter-Conley Mfg. Co., Pittsburg, Pa., & 111 B'way, New York

Stacey Mfg. Co., Elmwood pl, Cincinnati, O.

Western Gas Construction Co., Ft. Wayne, Ind.

Wood, R. D. & Co., 400 Chestnut, Phila., Pa.

Gas Lighters

(See Burners, Various Kinds.)

Gas Lighters (Pneumatic)

Pneumatic Gas Lighting Co., 150 Nassau st, N. Y.

Gas Logs

Crane, Wm. N. Co., 1133 B'way, New York

FRENCH, SAMUEL H. & CO., 4th & Callowhill, Philadelphia, Pa. (See adv. index, end of book)

Galloway, Wm., 32d & Walnut, Phila., Pa.

Superior Mfg. Co., Said & Magnolia, Allegheny, Pa.

Gas Machines

(For page number, see Index of Contents)

WILFONG BROS.,

Philadelphia, Pa.,

Galvanizing Kettles. Galvanizing Plants.

MOST EXTENSIVE MANUFACTURERS.

30 YEARS' EXPERIENCE.

KETTLES CARRIED IN STOCK.

GAS PRODUCERS

GAS ENGINES



NEW YORK

FACTORY POWER PLANTS

ELECTRIC LIGHTING PLANTS

Gas Machines (Acetylene)

(For page number, see Index of Contents)

Gas Machines (Gasoline)

(For page number, see Index of Contents)

Gas Machines (Naphtha Gas)

(For page number, see Index of Contents)

Gas Plants Installed

Acetylene Apparatus Mfg. Co. (Acetylene), 2331
Illion av, Minneapolis, Minn.
Acetylene Generator & Mfg. Co. (Acetylene),
Wapakoneta, O.
GAS POWER CO., New York. (See
adv. above)
National Gas & Construction Co., Fidelity bldg.,
Phila., Pa.
Rush Acetylene Generator Co. (Radiant Acety-
lene), Canandaigua, N. Y.
United Gas Improvement Co., Broad c Arch,
Phila., Pa.
Wayne Engineering & Construction Co., Ft.
Wayne, Ind.
Western Gas Construction Co., Ft. Wayne, Ind.

Gas Producers

American Furnace & Machine Co., Publication
bldg, Pittsburgh, Pa.
American Producers' Gas Furnace Co., Salem,
N. J.
AMSLER ENGINEERING CO. (Com-
plete for Power Plants), Diamond Bank
bldg, Pittsburgh, Pa. (See adv. below;
branch offices, end of book)
Automatic Gas Producer Co., 25 Broad, New
York
Backus Water Motor Co., Newark, N. J.
Broomell, Schmidt & Steacy Co. (Inc.), York,
Pa.
De La Vergne Machine Co. ("Koerting"), ft E
138th, New York

Duff Patents Co., Frick bldg, Pittsburgh, Pa.

FAIRBANKS, MORSE & CO., Frank-
lin & Monroe, Chicago, Ill. (See adv. index
& branch offices, end of book)Fort Wayne Foundry & Machine Co., Fort
Wayne, Ind.Forter-Miller Engineering Co. ("Forter" Water
Seal), Westinghouse bldg, Pittsburgh, Pa.**GAS POWER CO., New York.** (See
adv. above)Industrial Gas Co. ("Herrick"), 949 B'way, New
York**MINNEAPOLIS STEEL & MACHIN-**
ery Co., Minneapolis, Minn. (See adv. in-
dex & branch offices, end of book)Olds Gas Power Co. ("Pintsch" Suction), Lans-
ing, Mich.**OIL WELL SUPPLY CO., 215 Water,**
Pittsburg, Pa. (See adv. index, end of book)**PETROLEUM IRON WORKS CO.,**
Washington, Pa., & Farmers' Bank bldg,
Pittsburg, Pa. (See adv. index, end of
book)Phila Roll & Machine Co., S 23d & Wash'n av,
Phila., Pa.Power & Mining Machinery Co. (Loomis-Pettl-
bone Gas Apparatus for Power Plants and
Metallurgical), 52 William, New York;Reuleaux, Josef & Co. (Artificial), Second Natl-
ional Bank bldg, Pittsburgh, Pa.Rose Mfg. Co. ("Neverout" Invertible), 911
Arch, Philadelphia, Pa.

Smythe, S. R. Co. ("Standard"), Pittsburgh, Pa.

Swindell, Wm. & Bros. (for Steel & Iron Works),
German Nat'l Bank bldg, Pittsburgh, Pa.Weber Gas Engine Co. (for Gas Engines), Kan-
sas City, Mo.**WELLMAN-SEEVER-MORGAN CO.**
("Frazer-Talbot" Mechanical & "Hughes"
Mechanical or Hand Operated), Cleveland,
O., & Akron, O. (See adv. index, end of
book)**WESTINGHOUSE MACHINE CO. (for**
Power Plants), Westinghouse bldg, Pitts-
burg, Pa.

White-Blackslee Mfg. Co., Birmingham, Ala.

WILE POWER GAS CO. ("Wile" Au-
tomatic Suction & Water Bottom for Power
& Fuel), Cutler bldg, Rochester, N. Y. (See
adv. on following page)Wood, R. D. & Co. ("Taylor" & "Mond," also
Plants for Operating Gas Engines), 400
Chestnut, Phila., Pa.

Gas Producers (Water Seal)

American Furnace & Machine Co. ("Swindall"),
Pittsburg, Pa.**AMSLER ENGINEERING CO., Dia-**
mond Bank bldg., Pittsburgh, Pa. (See adv.
below; branch offices, end of book)Automatic Gas Producer Co., 25 Broad, New
York

Broomell, Schmidt & Steacy Co., York, Pa.

Duff Patents Co., Pittsburgh, Pa.

Forter-Miller Engineering Co. ("Forter"), Pitts-
burg, Pa.**GAS POWER CO., New York.** (See
adv. above)Industrial Gas Co. ("Herrick"), 949 B'way, New
York

Laughlin, Alex & Co., Pittsburgh, Pa.

Smythe, S. R. Co. (With Grates, also Grateless),
Pittsburg, Pa.

Swindell, Wm. & Bros., Pittsburgh, Pa.

Gas Ranges

(See Stoves, Heaters, Gas)

Gas Retorts

(See Retorts, Gas)

Gas Retorts (Cast Iron)

(See Retorts, Gas, Cast Iron)

Gas Shut-Off (Automatic)

Lord, L. L. Co., Meadville, Pa.

Gas Tips (Lava)

American Meter Co., 561 W. 47th, New York,
22d & Arch, Phila., & 99 S. Jefferson, Chi-
cago, Ill.

FURNACES

BLAST
HEATING
CRUCIBLE
OPEN HEARTH

GAS PRODUCERS

FOR
HEAT AND POWER

CONCRETE

(REINFORCED)

BUILDINGS

THE

AMSLER ENGINEERING CO.

PITTSBURG, PA.

Crescent Novelty Mfg. Co. ("E. H." Coal Gas), Chattanooga, Tenn.
 North Carolina Talc & Mining Co., Hewitt, N. C.
 Steward, D. M., Mfg. Co. ("E. H."), Chattanooga, Tenn.

Gas Works Apparatus & Construction

American Coke & Gas Construction Co., Camden, N. J.
 Bartlett, Hayward & Co. (Coal & Water Gas), Baltimore, Md.
 Beacon Contracting & Construction Co., 280 Broadway, N. Y.
 Connolly Iron Sponge & Governor Co., 395 Broadway, N. Y.
 Continental Iron Works, West & Calyer, Brooklyn, N. Y.
 Deily & Fowler, 39 Laurel, Philadelphia, Pa.
 Gas Machinery Co., Citizens bldg, Cleveland, O.
 Isbell-Porter Co., 7 Nassau, N. Y.
 Kerr-Murray Mfg. Co., Fort Wayne, Ind.
 Lloyd Construction Co., Detroit, Mich.
 National Gas & Construction Co., Fidelity bldg, Philadelphia, Pa.
 Phoenix Gas & Improvement Co. ("Janeway & Logan" Oil & Water Gas Plants), Harrison bldg, Phila., Pa.
 Riter-Conley Mfg. Co., Pittsburg, Pa., & 111 B'way, New York
 Stacey Mfg. Co., Elmwood pl, Cincinnati, O.
 State Construction Co. (Construction only), Land Title bldg, Phila., Pa.
 United Gas Improvement Co., Broad & Arch, Philadelphia, Pa.
 Wayne Engineering & Construction Co., Fort Wayne, Ind.
 Western Construction Co., Sioux City, Ia.
 Western Gas Construction Co., Ft. Wayne, Ind.
 Wood, R. D. & Co., 400 Chestnut, Philadelphia, Pa.

Gas & Electric Fixtures (Mfrs. & Wholesalers)

(Firms marked with a * indicate Wholesalers only.)

CALIFORNIA.

LOS ANGELES—Los Angeles Gas & Electric Fixture Mfg. Co.

SAN FRANCISCO—Burtschaell, Jno. W., 316 Post
 California Gas Fixture Co., 519 Mission
 Day, Thomas Co., 725 Mission
 *Ickelheimer Bros., 20 Geary
 Montroy Mfg. Co.
 Roberts Mfg. Co.

COLORADO.

DENVER—Sechrist, Albert Mfg. Co., 1033 16th

CONNECTICUT.

MERIDEN—BRADLEY & HUBBARD Mfg. Co. (See adv. index, end of book)
 Miller, Edw. & Co. (Mfrs., etc.)
 WATERBURY—Brenner, R. Mfg. Co.
 Waterbury Mfg. Co.

ILLINOIS.

CHICAGO—Acme Metal Mfg. Co., 47 S Canal
 Baggott, E. Co.
 Beardslee Chandelier Mfg. Co., 176 S Clinton
 Braun, David J. Mfg. Co., 135 W Wash'n
 Chicago Gas & Electric Fixture Mfg. Co., 19 S Jefferson
 *Chicago General Fixture Co., 169 Adams
 Edwards, W. S. Mfg. Co., 21 E Lake
 Garden City Chandelier Co., 162 S Clinton
 Hine-Watt Mfg. Co., 60 Wabash av
 *Lake View Gas Fixture Co., 233 Lincoln av
 Lau, W. H., Pullman bldg
 Moran & Hastings Mfg. Co., 61 Washington
 Overbagh & Ayres Mfg. Co., 152 5th av
 Pattison, J. L. & Co., 297 Wabash av
 Reading Hardware Co. (Chandeliers), 105
 Reinach & Binder, 916 Belmont av Lake
 Tietgen & Falk Co., 81 W Van Buren
 Williamson, R. & Co., 54 E Lake
 *Wilmarth, T. W. Co., 261 Wabash av
 Wingrave & McNaughton Co., 180 Wabash av
 DECATUR—Faries Mfg. Co. (Adjustable)
 SPRINGFIELD—Haas, Elec. & Mfg. Co.

INDIANA.

INDIANAPOLIS—*Aneshaensel, C. & Co.
 *Farrell, J. S. & Co.
 *Meikel, C. W. Co.

MUNCIE—Retherford Bros.
 RICHMOND—Chandelier & Art Brass Works
 TERRE HAUTE—Terre Haute Gas Fixture Co.

IOWA.

SIoux CITY—Electric Supply Co.

MARYLAND.

BALTIMORE—*Davidson, C. Y. Co., 328 N Charles
 Kries, Michael A., 305 W Lombard
 Mitchell-Vance Co., 801 N Calvert
 *Mylander, A. O. & Bro., Law bldg
 Southern Electric Co., 423 N Calvert
 Walther, Geo. W. & Co., 208 W Fayette

MASSACHUSETTS.

BOSTON—*Berne, H. N. & Co., 55 Sudbury
 Bigelow, Kennard & Co., 511 Washington
 Boston Electric Co., 29 Harrison av (etx.)
 *Craig, D. R., 44 Summer
 Finch, J. H., 96 High
 Hollings, R. & Co., 39 Bedford
 *Ireland, R. D. & Co., 246 Boylston
 McKenney, C. H. & Co., 634 Washington
 McKenney & Waterbury, 181 Franklin
 Shreve, Crump & Low Mfg. Co., 16 Randolph
 *Tarbell, E. H. Co., 15 Washington
 NEW BEDFORD—Pairpoint Corporation
 WORCESTER—White, O. C. Co.

MICHIGAN.

DETROIT—Detroit Heating & Lighting Co., Wight nr. Leib

MISSOURI.

ST. LOUIS—Adam, Frank Electric Co., 904 Pine
 Backus Gas Heater & Fixture Co., 1011 Olive
 Belle-Hickey Mfg. Co., 9th c Lucas av
 Bredsvold Mfg. Co., 305 Lucas av
 Kraushaar Brass Mfg. Co., 2507 N B'way
 *St. Louis Brass Mfg. Co.
 Sellner Gas & Electric Fixture Mfg. Co., 703
 *Siegel, A. & Sons, 331 N 11th Locust

NEW JERSEY.

BOUND BROOK—Standard Gas Fixture Co.
 BRIDGETON—Acme Gas Fixture Co.
 Crescent Gas Fixture & Art Metal Co.
 HOBOKEN—Lutz, Alois M., 14th & Clinton
 NEWARK—Phillips, Edw'd & Co., 342 Broad
 Storsberg, Fritz, 20 Atlantic
 PATERSON—Strutt, Wm., 349 Main
 TRENTON—American Lamp & Brass Co., Mulberry & Canal

NEW YORK

BUFFALO—*Buffalo Gas Fixture Co., 19 Palace
 *Sterns, J. C. & Co., 255 Pearl Arcade
 CANANDAIGUA—Rush Acetylene Generator Co. (Radiant Acetylene)
 COHOES—*Clute Bros.

CHEAP POWER

1 LB. OF COAL PER
HORSE POWER

GAS PRODUCERS

CHEAP FUEL

25 CENTS PER 1000
CUBIC FEET

GAS ENGINES AND GAS FURNACES

PRODUCER GAS INSTALLATIONS

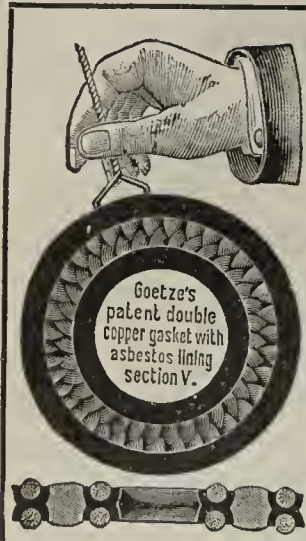
CATALOGUES SENT

WILE POWER GAS CO., Rochester, N. Y.

TO OUR ADVERTISERS AND SUBSCRIBERS.

At any time during the year, that you do not find classified in our book the names and addresses of the Manufacturers of any ARTICLE you are in the market to PURCHASE, please write us, giving as complete particulars as possible, and we will always endeavor to render you PROMPT SERVICE in furnishing you the names and addresses of such Manufacturers and without any cost or obligation. This does not include Mailing Lists.

S. E. HENDRICKS CO.



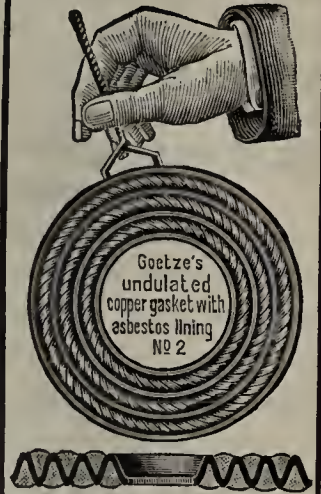
LEAKY FLANGES ARE NO MORE IF YOU USE GOETZE'S ELASTIC CORRUGATED COPPER GASKETS

You want to avoid loss of time through interruptions caused by leaky flanges. You want to prevent waste of material and have clean tube linings. You want to do repairing quickly and surely. There is only one way to accomplish this, viz.: use GOETZE'S ELASTIC COPPER GASKETS. Suppose you write for prices and ask for a testing sample.

AMERICAN GOETZE GASKET & PACKING CO.

725 EAST 141ST STREET

NEW YORK



NEW YORK CITY. Borough of Brooklyn.

BROOKLYN—Baldinger & Kupferman, 435 B'way

Findlay, Robert Mfg. Co., 349 Adams
Gaites, Peace & Co., 661 Manhattan
Luckett, James, 351 Adams
Nichols Gas Fixture Mfg. Co., 1100 Myrtle
Rose & Hastie, 754 Lexington av
Staines, Bunn & Taber Co., 147 Lawrence
*Vosburg, W. O. Mfg. Co., 269 State
*Walbroehl & Co., 352 Knickerbocker av
White, J. H. Mfg. Co., 111 N 3d

Boroughs of Manhattan & Bronx

NEW YORK—American Brass & Copper Co., 243 Canal

Barker, Jos. S., 168 Centre
Black & Boyd Mfg. Co., 23 E 23d
*Blanchard & Kelly, 157 E 128th
BRADLEY & HUBBARD MFG. CO.,
21 Barclay. (See adv. index, end of book)
Bushmiller, Siegfried, 92 Lincoln av
Caldwell, Edw. F. & Co., 38 W 15th
Campbell, John Co., 9 Bond
Cassidy & Son Mfg. Co., 135 W 23d
Century Gas & Electric Fixture Co., 176 Centre
Consolidated Chandelier Co., 231 Bowery
Consolidated Gas Fixture Works, 22 E 22d
Dale Co., 352 W 13th
Enos Co., 7th av & 16th
Ideal Gas & Electric Fixture Co., 144 Worth
Iden & Co., 46 University pl
Koehn, Alfred, 157 W 29th
Luetkes Iron & Brass Works, 227 W 29th
McCoy, J. B. & Son, 118 W 30th
Miller, Edw. & Co. (Mfrs. etc.), 28 W B'way
Mitchell-Vance Co., 503 W 24th
Pellegrini, A. & Co., 155 W 29th
Plaut, L. & Co. (for the trade only), 432 E 23d

Reading Hardware Co. (Chandeliers), 96
Roeser & Sommer, 386 2d av
SALO ART METAL CO., 462 E 136th. (See adv. index, end of book)
Stayright Electric Fixture Mfg. Co., 96 Warren

Sterling Bronze Co., 107 W 25th
Union Gas & Electric Fixture Co., 109 Leonard

U. S. Gas Fixture Co., 205 Centre
Walsh, Owen Mfg. Co., 21 Roosevelt
Williams, Jno., 556 W 27th

(END OF NEW YORK CITY)

ROCHESTER—*Smith, F. A. Mfg. Co. (Gas), 46
UTICA—Blasier, M. E. & Co. Stone
Utica Brass Works
Utica Fixture Co.

OHIO.

CINCINNATI—*Peoples' Gas & Fixture Co., 523
*Young, C. J. & Son, 426 Plum Main
CLEVELAND—Cleveland Gas & Electric Fix-
ture Co., Rose hldg
Gas Fixture & Brass Co., 318 High av

Morreau Gas Fixture Mfg. Co., 347 Erie
*Selzer, C. A., 813 Euclid av
*Wakefield, F. W. Brass Co.
COLUMBUS—Federal Mfg. Co. (Combination
TOLEDO—Toledo Chandelier Mfg. Co. also)
Western Gas Fixture Co., 611 St. Clair

PENNSYLVANIA.

PHILADELPHIA—American Gas Fixture W'ks,
208 N Broad

*Bauer Gas Fixture Works (Inc.), 450 N 12th
Brown, Frank P., 45 N 6th
Call, John W., 41 N 6th
Frankford Gas Fixture Co., 4270 Frankford
Gaumer, J. L. Co., 19th & Hamilton av
Gibson Gas Fixture Work, 1426 Callowhill
*Giese & Goodyear Co., 260 S 5th
Grell, Jacob, Jr., 328 Noble
Heller, C. B., 107 N 5th
Horn & Brannen Mfg. Co. (Inc.), 427 N Broad
Kettmann & Roemer, N Front & Laurel
Lawrence Gas Fixture Mfg. Co., 12th c
Lloyd-Garrett Co., 141 S 15th Cherry
Penna. Bronze Co., 13th & Cumberland
Penna. Gas Fixture Co., 1824 Cadwallader
Reading Hardware Co. (Chandeliers), 817
Reliance Mfg. Co., 104 N 6th Market
Sterling Bronze Co., 1513 Walnut
Sulzer & Co., 821 Cherry
ITTSBURG—*Brown, Jas. & Son Co., 207 Wood
Lumley, Wilfrid, Hamilton av c Murtlandt
Phoenix Steel Co. (Inc.) (Electroliters), Put-
nam & P R R
Reineke-Wilson Co., 13 Wood
*Weldon-Kelly Co., 305 Wood
READING—Price, W. F.
Reading Hardware Co. (Chandeliers)

RHODE ISLAND.

PROVIDENCE—Carpenter, H. T. & Co., 34
General Fire Extinguisher Co. Garnet
Shirley, Jno. R. & Sons, 262 Weybosset

WISCONSIN.

MILWAUKEE—Polachek, Chas. & Bros. Co.

Gas & Electric Light Portables

BRADLEY & HUBBARD MFG. CO.,
Meriden, Conn. (See adv. index, end of book)

Excelsior Brass Works, Reading, Pa.
Faries Mfg. Co. (Adjustable), Decatur, Ill.
Gale-Webb Mfg. Co. (Adjustable), Buffalo, N. Y.
General Mfg. & Supply Co., Trenton, N. J.
Goodwin & Kintz Co. (Gas), Winsted, Conn.
Miller, Edw. & Co., Meriden, Conn. & 28 W B'way, N. Y.
Moore, M. E. Bronze & Plate Co., Kingston, N. Y.
Plume & Atwood Mfg. Co., Waterbury, Conn.
Rose & Hastie, 754 Lexington av, Brooklyn, N. Y.

Gas & Gasoline Engines

(See Engines, Gas & Gasoline.)

*Gas & Electric Light Reading Lamps

BRADLEY & HUBBARD MFG. CO.,
Meriden, Conn. (See adv. index, end of hook)

Gas & Water Works Supplies

(See also Cast Iron Pipe Mfrs, Gas & Water; also Valves, Gate, for Water Mains)

Bailey-Farrell Mfg. Co., 3d av & Ross, Pitts-
Barnes Mfg. Co., Mansfield, O. burg, Pa.
Clow, Jas. B. & Sons, 344 Franklin, Chicago.
Crane Co. (Est. 1855), 519 S Canal, Chicago, Ill.
(See adv. index & branch offices, end of book)
Drummond, M. J. & Co., 182 B'way, New York
Fitts, Frank E. Mfg. Co. & Supply Co., 88 Pur-
chase, Boston, Mass.
Fox, Jno. & Co. (Mfrs. Agts.), 253 B'way, New
Gilchrist, Geo. E. Co., 106 High, Boston, Mass.
Hawkins, F. B. Co., Long Island City, N. Y.
Illinois Malleable Iron Co., 30 W. Monroe, Chi-
cago, Ill.
Kelly & Jones Co., 135 Water, Pittsburg, Pa.
Millar, Chas. & Son Co., 127 Genessee, Utica,
Moser Mfg. Co., Dallas, Tex. N. Y.
OIL WELL SUPPLY CO., 215 Water,
Pittsburg, Pa. (See adv. index, end of hook)
SIMMONS, JOHN CO., 110 Centre,
New York. (See adv. index, end of book)
Roots, P. H. & F. M. Co., Connersville, Ind.
Smith, A. P. Mfg. Co., Newark, N. J.
Walworth Mfg. Co., 132 Federal, Boston, Mass.,
Western Iron Works, San Francisco, Cal.

Gaskets

Alliance Asbestos Mfg. Co. (Asbestos), Alliance, O.
AMERICAN-GOETZE GASKET & Packing Co. (Plain & Corrugated Copper, Brass, Steel, Lead, Aluminum, Pure Nickel & Asbestos), 725 E. 141st, New York. (See adv. index, end of book)
American Steam Packing Co. (Asbestos), 60 Federal, Boston, Mass.
American Vulcanized Fibre Co., Wilmington, Del.
Bay State Belting Co. (Rubber), 119 Franklin, New York
BOSTON BELTING CO. (Rubber), Boston, Mass., & 100 Reade, New York. (See adv. index and branch offices, end of hook)
(See adv. index, end of book)
Boston Woven Hose & Rubber Co. (Rubber), Executive Office and Factory, Cambridgeport, Mass.
Brandt, Randolph (Triple Expansion for Boiler Works), 70 Cortlandt, New York
Canfield, H. O. Co. (Rubber, Boiler), Bridgeport, Conn.
Continental Rubber Works (Rubber), Erie, Pa.
Crane Co. (Est. 1855), 519 S Canal, Chicago, Ill. (See adv. index & branch offices, end of hook)
Crescent Belting & Packing Co., Trenton, N. J.
Delaney, H. J. & Co., 45 3d, Milwaukee, Wis.
Delaware Hard Fibre Co. (Oil Proof), Wilmington, Del.

Diamond Rubber Co. (Rubber), Akron, O.
 Empire Rubber Mfg. Co., Trenton, N. J.
 Garlock Packing Co., Palmyra, N. Y.
 Goodrich, B. F. Co. (Rubber), Akron, O.
 Goodwin & Kintz Co. (Automobile Copper and Asbestos), Winsted, Conn.
 Graton & Knight Mfg. Co. (Leather), Worcester, Mass.
 Greenwood Mfg. & Supply Co. ("G. B. S." Fireproof), 147 Milk, Boston, Mass.
 Guillot Metal Gasket Co. (Metallic), 97 S Clinton, Chicago, Ill.
 Gutta Percha & Rubber Mfg. Co., 126 Duane, New York
 Hamilton Rubber Mfg. Co., Trenton, N. J.
 Hartford Rubber Works Co. (Rubber), Hartford, Conn., & 83 Michigan av, Chicago, Ill.
 Hodgman Rubber Co., 806 B'way, New York
 Home Rubber Co. (Rubber), Trenton, N. J.
 Illinois Car & Equipment Co. (Car), Old Colony bldg, Chicago, Ill.
 International Automobile & Vehicle Tire Co. (Rubber), Milltown, N. J.
JOHNS-PRATT CO., THE ("Vulcan-boston"), Hartford, Conn.
 Keasbey & Mattison Co. (Asbestos), Ambler, Pa.
 Knowlton, Geo. W. Rubber Co. (Hub Moulded & Moulded Wire), 88 Broad, Boston, Mass.
 Libby Valve & Packing Co., 147 Varick, New York
 McCord & Co. (The "McKim" Rubber Encased in Copper), Old Colony bldgs, Chicago, Ill.
 Manhattan Rubber Co., 18 Vesey, New York, & 103 Lake, Chicago
 Mechanical Rubber Co. (Rubber), 91 Chambers, New York
 Merwarth Metallic Gasket Co. (Metallic), 32 B'way, N. Y., & S. Bethlehem, Pa.
 Mineralized Rubber Co., 18 Cliff, New York.
 Morgan & Wright (Inc.) ("White Seal" Tubular, Asbestos Covered Tubular, Rubber, etc.), 226 Jefferson av, Detroit, Mich.
 National India Rubber Co. (Rubber), Bristol, R. I.
 New Jersey Asbestos Co. (Asbestos & Copper Combined), Camden, N. J., & 52 Dey, New York
 New Jersey Car Spring & Rubber Co., Jersey City, N. J.
 New York Belting & Packing Co. (Ltd), 91 Chambers, New York
 Oil City Asbestos Co. (Asbestos), Oil City, Pa.
 New York Rubber Co., 84 Reade, New York.
 Peerless Rubber Mfg. Co. (Rubber), 16 Warren, New York
 Pulver, Peter & Sons (Eclipse), 214 Franklin, New York
 Quaker City Rubber Co. (Chas. A. Daniel, Propt. (Rubber), 409 Market, Phila., Pa.
 Republic Rubber Co. (Rubber), Youngstown, O.
 Revere Rubber Co. (Rubber), 63 Franklin, Boston, Mass.
SAYEN, OSGOOD ("Torpedo"), Office, Arcade bldg., Phila., Pa. Warerooms: 131 Market, Phila., Pa. (See adv. index and branch offices, end of book)
 Sherman, H. B. Mfg. Co. (Rubber), Battle Creek, Mich.
SIMMONS, JNO. CO., 106 Centre, New York. (See adv. index, end of book)
SMOOTH-ON MFG. CO. (Corrugated Iron), 572 Communipaw av, Jersey City, N. J. (See adv. index & branch offices, end of book)
 Stokes, Jos. Rubber Co., Trenton, N. J.
STRONG MACHINERY & SUPPLY CO. ("Strong's" Tisafine), 48 Franklin, New York. (See adv. index, end of book)
 Trenton Rubber Mfg. Co., Trenton, N. J.
U. S. INDESTRUCTIBLE GASKET Co. (Plain & Corrugated Copper, Brass, Steel & Lead), 16 S. William, New York. (See adv. below)
U. S. MINERAL WOOL CO. (Corrugated Copper), 140 Cedar, New York, & Netcong, N. J. (See adv. index, end of book)
 United & Globe Rubber Mfg. Co., Trenton, N. J., & 26 B'way, New York

Vellumold Paper Co. ("Vellumold"), Worcester, Mass.
 Voorhes Rubber Mfg. Co. ("Nubian," Tubular), Jersey City, N. J.
 Walsh Packing Co. (Combination), 1118 S 7th, Philadelphia
 Waterbury Rubber Mfg. Co. (Rubber), 75 Warren, New York
WATSON, H. F. CO. (Asbestos & Rubber Cloth, Metallic), Erie, Pa. (See adv. index and branch offices, end of book)

*Gaskets (Ammonia Fitting)

AMERICAN-GOETZE GASKET & Packing Co., 725 E 141st, New York. (See adv. on preceding page)
U. S. INDESTRUCTIBLE GASKET Co., 16 S William, New York. (See adv. below)

*Gaskets (Asbestos)

AMERICAN-GOETZE GASKET & Packing Co., 725 E 141st st., New York. (See adv. on preceding page)

Gaskets (Asbestos-Metallic)

Johns, H. W.-Manville Co. ("Besto-Monia," "Kearsage"), 100 William, New York

*Gaskets (Automobile)

AMERICAN-GOETZE GASKET & Packing Co., 725 E 141st, New York. (See adv. on preceding page)
SMOOTH-ON MFG. CO., 572 Communipaw av, Jersey City, N. J. (See adv. index & branch offices, end of book)

Gaskets (Copper)

Alberger Condenser Co. (Corrugated), 95 Liberty, New York
AMERICAN-GOETZE GASKET & Packing Co. ("Goetze's" Seamless, with Graphite for Unions, & Flanged Joints, etc., All Sizes), 725 E 141st st., New York. (See adv. on preceding page)
 Goodwin & Kintz Co. (Automobile), Winsted, Conn.
 Kinsman Electric & Railway Supply Co., 91 Liberty, N. Y.
 McCord & Co. ("McKinn"), Old Colony bldg, Chicago, Ill., & 24 Broad, New York
U. S. INDESTRUCTIBLE GASKET Co. (Large Seamless, Up to 132 diam.), 8 S William, New York. (See adv. below)
U. S. MINERAL WOOL CO. (Corrugated), 140 Cedar, N. Y. (See adv. index, end of book)

Gaskets (Corrugated Copper)

Alberger Condenser Co., 95 Liberty, New York
 Akron Metallic Gasket Co. (Also Infallible Manhole Gaskets), Akron, O.
AMERICAN-GOETZE GASKET & Packing Co. ("Goetze's" for all Purposes), 725 E 141st, New York. (See adv. on preceding page)
 Bourne & Knowles Mfg. Co., Cleveland, O.
HUNGERFORD, U. T. BRASS & COPPER Co., 497 Pearl, New York
 McCord & Co., Old Colony bldg, Chicago, Ill., & 24 Broad, New York
U. S. INDESTRUCTIBLE GASKET Co. (All Kinds, Special, Seamless, Scientific & Intricate, Up to 132 in. in diam. for Cylinder Heads, Steam Chests, Valve Bonnets, etc.), 16 S William, New York. (See adv. below)
U. S. MINERAL WOOL CO., 140 Cedar, New York. (See adv. index, end of book)

Gaskets (Lead)

Akron Metallic Gasket Co. (and Soft Metal), Akron, O.
AMERICAN-GOETZE GASKET & Packing Co. (And Alloys), 725 E 141st, New York. (See adv. on preceding page)
U. S. INDESTRUCTIBLE GASKET Co. (And Alloys), 16 S William, New York. (See adv. below)
 Windsor Mfg. Co., 570 Clinton, Milwaukee, Wis.

*Gaskets (Nickel & Bronze)

AMERICAN-GOETZE GASKET & Packing Co. (Silver, etc., also), 725 E 141st, New York. (See adv. on preceding page)
U. S. INDESTRUCTIBLE GASKET Co. (Silver, etc., also), 16 S William, New York. (See adv. below)

*Gaskets ("Smooth-On" Corrugated Iron)

SMOOTH-ON MFG. CO., 572 Communipaw av, Jersey City, N. J. (See adv. index & branch offices, end of book)

*Gaskets (Steel Corrugated)

AMERICAN-GOETZE GASKET & Packing Co., 725 E 141st, New York. (See adv. on preceding page)
SMOOTH-ON MFG. CO., 572 Communipaw av, Jersey City, N. J. (See adv. index & branch offices, end of book)
U. S. INDESTRUCTIBLE GASKET Co., 16 S William, New York. (See adv. below)

Gasoline Refiners

Indian Refining Co., Georgetown.
 American Oil Works (Ltd.), Titusville, Pa.
 Independent Refining Co., Oil City, Pa.
 Merchants' Refining Co., Buffalo, N. Y.
 Miller, A. D. Sons Co., Allegheny, Pa.
 Paragon Refining Co., Toledo, O.
 Penna. Refining Co., Oil City, Pa.
 Red "C" Oil Mfg. Co., Baltimore, Md.
 Sunlight Oil & Gasoline Co., 217 Arch, Philadelphia, Pa.
 Waverly Oil Works, 54th & A. V. R'y, Pittsburgh, Pa.

*Gate Mfrs. (Folding)

PITT, WM. R. COMPOSITE IRON Works ("Pitt," "Bostwick," "Novelty" & "Composite" Patents), 136 W. 24th, New York. (See adv. index, end of book)

UNION EQUIPMENT AND BRONZE CO.
 520 W 36th, N. Y. (See adv. outside stencil)

*Gates (Automatic Drive)

INTERNATIONAL FENCE & FIRE-Proofing Co. ("Byerly"), Buttles av, Columbus, O. (See adv. index, end of book)
 Western Steel Gate Co. (Steel), Two Rivers, Wis.

Gates (Blast)

American Blower Co., Detroit, Mich.
 Buffalo Forge Co. (Lever & Slide Type), Buffalo, N. Y., & 39 Cortlandt, New York
 Sturtevant, B. F. Co., Hyde Park, Mass.

CORRUGATED COPPER, LEAD BASE, BRONZE, BRASS, GASKETS, for all kinds of FLANGES,

ENGINES, BOILERS, VALVES, PUMPS, ETC.

Special INDESTRUCTIBLE Coated, Silver Finish, Rustless Steel Gaskets, FOR SUPERHEAT.

INTRICATE GASKETS TO BLUE PRINTS A SPECIALTY.

EXTRA HEAVY GASKETS and WASHERS to 1 inch thick.

SEAMLESS CORRUGATED COPPER GASKETS up to 150 inches in diameter.

IMMEDIATE SHIPMENTS

U. S. INDESTRUCTIBLE GASKET CO.

16 South William Street, New York City

***Gates (Bridge)**

Buda Foundry & Mfg. Co., Railway Exchange bldg. Chicago, Ill.
PITT, WM. R. COMPOSITE IRON
 Works ("Pitt," Patent Folding), 136 W. 24th, New York. (See adv. index, end of book)

Gates (Bronze)

AMOS, CHAS. & CO., 94 W Larned,
 Detroit, Mich. (See adv. index, end of book)
BIGELOW-CHENEY WIRE WORKS,
 Springfield, Mass. (See adv. index, end of book)
BRADLEY & HUBBARD MFG. CO.,
 Meriden, Conn. (See adv. index, end of book)
BUFFALO WIRE WORKS CO., Buf-
 falo, N. Y. (See adv. index, end of book)
 Burkhardt, John, 614 W 55th, New York
CABARET, PAUL E. & CO., 342 W
 14th, New York. (See adv. index, end of book)
CITY FORGE & IRON WORKS (An-
 drew Plocher, Prop.), Dayton, O. (See adv. index, end of book)
 Gaumer, John L. & Co., 22d & Wood, Philadelphia, Pa.
 Gorham Co., Providence, R. I.

HALSTED, JOS. CO., 388 W. Ran-
 dolph, Chicago, Ill. (See adv. index, end of book)

Hecla Iron Works, 118 N 11th, Brooklyn, N. Y.
HENRY-BONNARD BRONZE CO.,
 Sales Office, 5 & 7 E. 42d, New York; Works, Mt. Vernon, N. Y. (See adv. index, end of book)

JACKSON, WM. H. COMPANY, 29 E
 17th (Union sq), New York. (See adv. index, end of book)

Manhattan Brass Co., 334 E 28th, New York
 Mott, J. L. Iron Works, 118 5th av., New York
PITT, WM. R. COMPOSITE IRON
 Works, 136 W. 24th, New York. (See adv. index, end of book)

Richey, Browne & Donald, Maspeth, Borough of Queens, New York City
 Schreiher, L. & Sons Co., 8th & Eggleston av., Cincinnati, O., & 1133 B'way, New York

SMITH, F. P. WIRE & IRON WORKS,
 100 Lake, Chicago, Ill. (See adv. index, end of book)

SNEAD & CO. IRON WORKS, Jersey
 City, N. J. (See adv. index, end of book)

TYLER, W. S. CO., Cleveland, O., 11
 B'way, New York. (See adv. index, end of book)

UNION EQUIPMENT AND BRONZE CO.
 520 W 36th, N. Y. (See adv. outside stencil)

VULCAN CO., Detroit, Mich. (See
 adv. index, end of book)

Williams, John, 556 W. 27th, New York
WINSLOW BROS. COMPANY, Main
 Office & Works, 2515 W. Harrison, Chicago, Ill. (See adv. index, end of book)

WISCONSIN IRON & WIRE WORKS,
 190 E. Water, Milwaukee, Wis. (See adv. index, end of book)

***Gates (Bronze & Iron)**

JACKSON, WM. H. CO., 29 E. 17th
 Union Square, New York. (See adv. index, end of book)

Gates (Coal Pocket)

Stuebner, G. L. Iron Works, 12th & Vernon av, Long Island City, N. Y.
 Union Iron Works Hohoken, N. J.

Gates (Driveway & Entrance)

American Cable Fence Co., Pekin, Ill.
AMOS, CHAS. & CO., Detroit, Mich.
 (See adv. index, end of book)

ANCHOR POST IRON WORKS, 41
 Park row, New York. (See adv. index, end of book)

Belmont Iron Works, 22d & Wash'n av, Phila., Pa.
BOLLES, J. E. IRON & WIRE
 Works 4th av. & Porter, Detroit, Mich. (See adv. index, end of book)

CHAMPION IRON CO., KENTON, O.
 (See adv. index, end of book)

Dow Wire & Iron Works, Louisville, Ky.

CITY FORGE & IRON WORKS (An-
 drew Plocher, Prop.), Dayton, O. (See adv. index, end of book)

HALSTED, JOS. CO., 388 W. Ran-
 dolph, Chicago, Ill. (See adv. index, end of book)

JACKSON, WM. H. CO., 29 E. 17th
 (Union sq), N. Y. (See adv. index, end of book)

KAMMAN, WALTER, Front & Law-
 rence, Cincinnati, O. (See adv. index, end of book)

Midland Metal Co. (Inc.), 1427 Catherine, Phila., Pa.
 Peters, David & Son, Gate & Fence Co. (Auto-

matic), Homer, Ill.
 Phoenix Steel Co., Inc., Putnam & P. R. R., Pittsburgh, Pa.
PITT, WM. R. COMPOSITE IRON
 Works, 136-138 W. 24th, New York. (See adv. index, end of book)

REMPPIIS, WM. F. CO., Reading, Pa.,
 & 1506 Sansom, Phila., Pa. (See adv. index, end of book)

TAYLOR & DEAN, 205 Market, Pitts-
 burg, Pa. (See adv. index, end of book)

TYLER, W. S. CO., Cleveland, O., &
 11 B'way, New York. (See adv. index, end of book)

VULCAN CO., Detroit, Mich. (See
 adv. index, end of book)

White Bros. Mfg. Co., successors to the Denver Iron & Wire Works Co. Office, 209 Continental Bldg. Works, W. 12th av. & S. 4th, Denver, Col.

WRIGHT WIRE CO., Worcester,
 Mass. (See adv. index & branch offices, end of book)

Gates (Farm & Railroad)

Adams Steel & Wire Works, Joliet, Ill.
 American Cable Fence Co., Pekin, Ill.
 Carnegie Plow & Mfg. Co. ("Hunter" Double Truss), Carnegie, Pa.

Cleveland Fence Machine & Wire Co., Lake & Marquette, Cleveland, O.

INTERNATIONAL FENCE & FIRE-
 Proofing Co., Buttes av, Columbus, O. (See adv. index, end of book)

Kokomo Fence Machine Co. (Steel), Kokomo, Ind.
 Myers, Chas. H. & Co., Le Roy, Ill.

Sheer, Eugene ("Uncle Sam," Automatic), Lincoln, Ill.
 Western Steel Gate Co. (Steel), Two Rivers, Wis.

***Gates (Ferry Boat)**

PITT, WM. R. COMPOSITE IRON
 Works ("Pitt," Patent Folding), 136-138 W. 24th, New York. (See adv. index, end of book)

Gates (Folding)

Anderson, Henry C. (Steel), 414 Bleecker, N. Y.
 Bataille, Achille & Co., 587 Hudson, New York
 Belmont Iron Works (Steel), 22d & Wash'n av, Philadelphia, Pa.

BOLLES, J. E. IRON & WIRE
 Works, 4th av. & Porter, Detroit, Mich. (See adv. index, end of book)

BUFFALO WIRE WORKS CO., Buf-
 falo, N. Y. (See adv. index, end of book)

California Artistic Metal & Wire Co., 539 Mission, San Francisco, Cal.
CITY FORGE & IRON WORKS (An-
 drew Plocher, Prop.), Dayton, O. (See adv. index, end of book)

KAMMAN, WALTER, Front & Law-
 rence, Cincinnati, O. (See adv. index, end of book)

MERRITT & CO., 1024 Ridge av,
 Philadelphia, Pa. (See adv. index, end of book)

PITT, WM. R. COMPOSITE IRON
 Works ("Pitt-Bostwick"), 136 W. 24th, New York. (See adv. index, end of book)

REMPPIIS, WM. F. CO., Reading, Pa.,
 & 1506 Sansom, Phila., Pa. (See adv. index, end of book)

Schreiher, L. & Sons Co., 8th & Eggleston av., Cincinnati, O., & 1153 B'way, New York

SMITH, F. P. WIRE & IRON WORKS,
 100 Lake, Chicago, Ill. (See adv. index, end of book)

Temple Ornamental & Structural Iron Works Co., Temple, Pa.
 Union Iron Works Co. ("Bostwick"), Colerain & Sassafras, Cincinnati, O.

Wehh, James R. (Steel), 545 W. 22d, New York
TYLER, W. S. CO. (Collapsible),
 Cleveland, O., & 11 B'way, New York. (See adv. index, end of book)

WRIGHT WIRE CO., Worcester,
 Mass. (See adv. index & branch offices, end of book)

Gates (Molasses)

Cheney, S. & Son, Manlius, N. Y.
 Enterprise Mfg. Co., 3d & Dauphin, Phila., Pa.
 Sommer's, John Sons ("Perfection"), Newark, N. J.

Weller Hdw. & Foundry Co., Horseheads, N. Y.
WILSON, F. CORTEZ & CO., 239
 Lake, Chicago, Ill. (See adv. index, end of book)

Gates (Ore Bin)

ALLIS-CHALMERS CO., Milwaukee,
 Wis. (See adv. index & branch offices, end of book)

MINNEAPOLIS STEEL & MACHINERY
 Co., Minneapolis, Minn. (See adv. index & branch offices, end of book)

Power & Mining Machinery Co., 52 William, New York. Works, Cudahy, Wis.
 Union Iron Works, San Francisco, Cal.

WELLMAN-SEEVER-MORGAN CO.
 ("Seaver"), Cleveland, O., & Akron, O. (See adv. index, end of book)

Gates (Ornamental Iron)

AJAX IRON & WIRE CO., 75 York,
 Brooklyn, N. Y. (See adv. index, end of book)

ANCHOR POST IRON WORKS, 41
 Park row, New York. (See adv. index, end of book)

Barnum, E. T. Wire & Iron Works, Detroit, Mich.
 Bayley, Wm. Co., Springfield, O.
 Belmont Iron Works, 2215 Wash'n av, Phila., Pa.

BETHLEHEM FOUNDRY & MACHINE
 Co., Front, South Bethlehem Pa., & 149 B'way, New York. (See adv. index, end of book)

BIGELOW, CHENEY WIRE WORKS,
 Springfield, Mass. (See adv. index, end of book)

BOLLES, J. E., IRON & WIRE
 Works, 4th av & Porter, Detroit, Mich. (See adv. index, end of book)

Booth, John, Wire & Iron Works, 37 Indiana, Chicago, Ill.

BRADLEY & HUBBARD MFG. CO.,
 Meriden, Conn. (See adv. index, end of book)

BUFFALO WIRE WORKS CO., Buf-
 falo, N. Y. (See adv. index, end of book)

Burkhardt, John, 614 W 55th, New York
CHAMPION IRON CO., KENTON, O. (See
 adv. index, end of book)

Chesapeake Iron Works, Severn & Bayard, Baltimore, Md.
CHICAGO ORNAMENTAL IRON CO.,
 37th & Stewart av, Chicago. (See adv. index, end of book)

CINCINNATI MFG. CO., 1243 W. 6th,
 Cincinnati, O. (See adv. index, end of book)

CITY FORGE & IRON WORKS (An-
 drew Plocher, Prop.), Dayton, O. (See adv. index, end of book)

COLUMBIA IRON & WIRE WORKS
 Co., Canton, O. (See adv. index, end of book)

Cornell, J. B. & J. M. Co., 26th & 11th av, N. Y.

Creswell, Samuel J. Iron Works, 23d & Cherry, Philadelphia, Pa.
 Gaumer John L. Co., 22d & Wood, Phila., Pa.

Glen Mfg. Co., Ellwood City, Pa.
 Grote Mfg. Co. (Park, Cemetery, etc.), Evansville, Ind.

Hecla Iron Works, 118 N 11th, Brooklyn, N. Y.
HALSTED, JOSEPH CO., 388 W Ran-
 dolph, Chicago, Ill. (See adv. index, end of book)

HICKEY, M. H. WIRE & IRON
 Works, 54 Dearborn, Chicago, Ill.

JACKSON, WM. H. COMPANY, 29 E
 17th (Union sq), New York. (See adv. index, end of book)

Jonson's, Julius Sons, 63 Hudson, Jersey City, N. J.

KAMMAN, WALTER, Front & Law-
 rence, Cincinnati, O. (See adv. index, end of book)

Kleeman, Trotter & Co., 1327 Main, Kansas City, Mo.
 Koehn, Alfred, 159 W 29th, New York

McKinney, Jas. & Son, 925 B'way, Albany, N. Y.
MERRITT & CO., 1024 Ridge
 Philadelphia, Pa. (See adv. index, end of book)

Midland Metal Co. (Inc.), 1427 Catherine, Phila., Pa.
 Morss & Whyte, 75 Cornhill, Boston, Mass.

Mott, J. L. Iron Works, 118 5th av, New York
Mugler's Iron Works, 1133 E 136th, New York
OHIO STRUCTURAL IRON CO., Sandusky, O. (See adv. index, end of book)
PITT, WM. R. COMPOSITE IRON Works, 136 W 24th, New York. (See adv. index, end of book)

Prince Iron Works, 553 W 33d, New York
REMPIS, WM. F. CO., Reading, Pa., & 1506 Sansom, Phila., Pa. (See adv. index, end of book)

Richey, Browne & Donald, Maspeth (Boro of Queens), New York City
Schreiber, L. & Sons Co., 8th & Eggleston av, Cincinnati, O., & 1133 B'way, N. Y.

SMITH, F. P. WIRE & IRON WORKS, 100 Lake, Chicago, Ill. (See adv. index, end of book)

Snead, Arch'l Iron Works, 10th & Hill, Louisville, Ky.

SNEAD & CO. IRON WORKS, Jersey City, N. J. (See adv. index, end of book)

Standard Co., W 15th & Laffin, Chicago, Ill.

TAYLOR & DEAN, 205 Market, Pittsburg, Pa. (See adv. index, end of book)

Temple Ornamental & Structural Iron Works Co., Temple, Pa.

TYLER, W. S. CO., Cleveland, O. 11 B'way, New York. (See adv. index, end of book)

Union Iron Works Co., Colerain av & Sassafras, Cincinnati, O.

Union Iron & Foundry Co., 1458 S 2d, St. Louis, Mo.

Van Dorn Iron Works Co., 2685 E 79th, Cleveland, O.

Vilsack Martin Co., Pittsburgh, Pa.

VULCAN CO., Detroit, Mich. (See adv. index, end of book)

White Bros. Mfg. Co. (successors to the Denver Iron & Wire Works Co.), Office, 209 Continental Bldg. Works, W 12th av & S 4th, Denver, Col.

Williams, John, 556 W 27th New York

WINSLOW BROS. COMPANY, Main Office & Works, 2515 W Harrison, Chicago, Ill. (See adv. index & branch offices, end of book)

WISCONSIN IRON & WIRE WORKS, 190 E Water, Milwaukee, Wisc. (See adv. index, end of book)

WRIGHT WIRE CO., Worcester, Mass. (See adv. index & branch offices, end of book)

Gates (Railway Crossing)

(See also Signals, Railway Crossing)

Buda Foundry & Machine Co. ("Bouge" & "Mills" System Interlocked, Pneumatic, etc.), Railway Exchange bldg, Chicago, Ill.

Climax Stock Guard Co. ("Climax," Cable Truss & Adjustable), Canton, O.

Craig-Reynolds Foundry Co ("Dayton"), Dayton, O.

General Railway Signal Co., 1738 Elmwood av, Buffalo, N. Y.

Johnson's, Julius Sons, 63 Hudson, Jersey City, N. J.

Pneumatic Gate Co. ("Elliot" Pneumatic), 950 S Fairfield av, Chicago, Ill.

Standard Railway Gate Co. ("Standard Lever"), Saginaw, Mich.

Wilson Railway Gate Co., Birmingham, Mich.

Gates (Sluice)

Bourbon Copper & Brass Works, 618 E. Front, Cincinnati, O.

Chapman Valve Mfg. Co., Indian Orchard, Mass.

Coffin Valve Co., Neponset, Boston, Mass.

Coldwell-Wilcox Co. (Also Pivot), Newburgh, Dimmick Pipe Co., Birmingham, Ala. N. Y.

Eddy Valve Co., Waterford, N. Y.

Fox, Jno. & Co., 253 B'way, New York

Glamorgan Pipe & Foundry Co., Lynchburg, Va.

Kennedy Valve Mfg. Co., 57 Beekman, N. Y.

Ludlow Valve Mfg. Co., Troy, N. Y.

MERRITT & CO. (Pneumatic), 1024 Ridge av, Phila., Pa. (See adv. index, end of book)

Pelton Water Wheel Co., San Francisco, Cal., & 90 West, New York

Rensselaer Mfg. Co., Van Schaick Island, Troy, N. Y.

Vulcan Iron Works, Fulton & Irving av, Chicago, Ill.

Wood, R. D. & Co. (Intake & Screens), 400 Chestnut, Phila., Pa.

Gates (Steel Picket)

(See Fences, Iron & Steel Picket.)

*Gates (Storage Bin)

RANSOME CONCRETE MACHINERY Co. (For Sand, Stone & Concrete), Dunellen, N. J. (See adv. index, end of book)

Gauge Cocks

(See Cocks, Gauge.)

Gauge Glass Preserver

MORSE, R. F. (Gilbert's Self-Pack- ing), 74 Weybosset, Providence, R. I. (See adv. below)

Gauge Glass Rubber

Diamond Rubber Co. (Washers, etc.), Akron, O.

Gauge Glass Washers

BOSTON BELTING CO., 260 Devon- shire, Boston, Mass., & 100 Reade, N. Y. (See adv. index & branch offices, end of book)

Canfield, H. O. Co., Bridgeport, Conn.

CARPENTER, GEO. B. & CO., 202 S Water, Chicago, Ill. (See adv. index, end of book)

Cleveland Rubber Co., Cleveland, O.

Continental Rubber Works (Rubber), Erie, Pa.

Diamond Rubber Co., Akron, O.

Electric Hose & Rubber Co., Wilmington, Del.

Empire Rubber Mfg. Co., Trenton, N. J.

Goodrich, B. F. Co., Akron, O.

Gutta Percha & Rubber Mfg. Co., 126 Duane, New York

Home Rubber Co., Trenton, N. J.

Lake Shore Rubber Co., Erie, Pa.

Manhattan Rubber Mfg. Co., 18 Vesey, New York

Mechanical Rubber Co., 91 Chambers, New York

Morgan & Wright (Inc.), 226 Jefferson av, Detroit, Mich.

N. J. Car Spring & Rubber Co., Jersey City, N. J.

NEW YORK BELTING & PACKING Co. (Ltd), 91 Chambers, New York. (See adv. index & branch offices, end of book)

New York Rubber Co., New York

Revere Rubber Co., Boston, Mass.

Stokes, Jos. Rubber Co., Trenton, N. J.

Rogers, H. A. Co. ("Perfected"), 19 John, New York

Voorhees Rubber Mfg. Co., 18 Bostwick av, Jersey City, N. J.

Gauge Glasses

Americau Steam Gauge & Valve Mfg. Co., Boston, Mass.

ASHCROFT MFG. CO., 85 Liberty, New York. Works, Bridgeport, Conn. (See adv. index, end of book)

Crane Co. (Est. 1885), 519 Canal, Chicago, Ill. (See adv. index & branch offices, end of book)

Jerguson Mfg. Co., 221 Columbus av, Boston, Mass.

Lovell, F. H. Co. ("Bishop's"), Arlington, N. J.

McRae & Roberts Co., 227 Campbell av, Detroit, Mich.

Powell, Wm. Co., Cincinnati, O.

Rogers, H. A. Co. ("Moncrief," Scotch), 19 John, New York

SCHAEFFER & BUDENBERG MFG. Co. (Compound & Durax of Composite Glass), Foxboro, Mass. (See adv. index & branch offices, end of book)

WILSON, F. CORTEZ & CO., 239 Lake, Chicago, Ill. (See adv. index, end of book)

Gauge Glasses (Scotch)

Belfield, H. & Co., 435 N Broad, Phila., Pa.

LUNKENHEIMER CO., General Of- fices & Works, Beekman & Waverly, Cin- cinnati, O. (See adv. index & branch of- fices, end of book)

Powell, Wm. Co., Cincinnati, O.

Rogers, H. A. Co. ("Moncrief"), 19 John, New York

*Gauge Testing Apparatus

CROSBY STEAM GAGE & VALVE Co., 97 Oliver, Boston, Mass. (See adv. index & branch offices, end of book)

SCHAEFFER & BUDENBERG MFG. Co., Foxboro, Mass. (See adv. index & branch offices, end of book)

Gauges (Air Brake)

(See Gauges, Steam)

*Gauges (Alarm)

ASHCROFT MFG. CO., THE ("Ed- son"), 85, 87 & 89 Liberty, New York. Works, Bridgeport, Conn. (See adv. index, end of book)

BRISTOL CO., Waterbury, Conn., & Liberty, New York. (See adv. index, end of book)

National Fire Appliance Co., 161 Franklin, Boston, Mass.

Gauges (Altitude)

(See Gauges, Steam)

Gilbert's Glass Gauge Preserver

will pack your glasses tight without the use of a wrench. ✿ No tools required. ✿ Your fingers all you need. ✿ Cheap in price and universally used. Send for sample



R. F. MORSE, Sole Owner, Manufacturer and Patentee,

PROVIDENCE, R. I.

Gauges (Ammonia)

(Sec Gauges, Steam)

Gauges (Ammonia Recording)*BRISTOL CO. ("Bristol's"), Waterbury, Conn.** (See adv. index & branch offices, end of book)***Gauges (Automobile)****CROSBY STEAM GAGE & VALVE Co., 97 Oliver, Boston, Mass.** (See adv. below; branch offices, end of book)**SCHAEFFER & BUDENBERG MFG. Co., Foxboro, Mass.** (See adv. index & branch offices, end of book)**STANDARD GAUGE MFG. CO., Syracuse, N. Y.** (See adv. index, end of book)**Gauges (Axle)****Badgar State Machine Co. ("Wills" Automatic), Janesville Wls.****Gauges (Bar Iron Limit)**

(See Gauges, Limit)

Gauges (Barrel)**Hydraulic Press Mfg. Co., Mt. Gilead, O.****Gauges (Battery)**

(See Ammeters & Voltmeters)

Gauges (Bit)**Bonney Vise & Tool Works (Inc.), 3015 Chestnut, Philadelphia, Pa.**
Cincinnati Tool Co., Norwood, Cincinnati, O.**Gauges (Blast)**

(See Gauges, Steam)

Gauges (Boiler Plate)

(See Gauges, Rolling Mill)

Gauges (Bolt & Pipe)*WELLS BROS. CO. ("Little Giant"), Greenfield, Mass.****Gauges (Bourdon Pressure)**

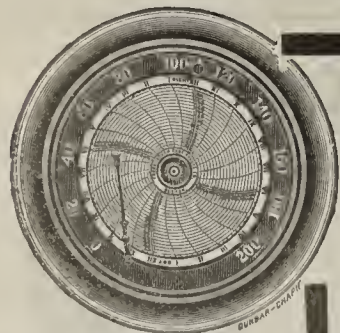
(See Gauges, Steam)

Gauges (Caliper)**Billings & Spencer Co. (Pocket, etc.), Hartford, Conn.****Brown & Sharpe Mfg. Co., Providence, R. I.**
HAMMACHER, SCHLEMMER & CO., 133 4th av, N. Y. (See adv. index, end of book)**MORSE TWIST DRILL & MACHINE Co. (Adjustable), New Bedford, Mass.** (See adv. index, end of book)**Pratt & Whitney Co., Hartford, Conn.****Rogers, Jno. M., Gloucester City, N. J.****Sawyer Tool Mfg. Co., Fitchburg, Mass.**
Slocumb, J. T. Co., Providence, R. I.
Smith, E. G. Co. ("Columbia"), Columbia, Pa.
Starrett, L. S. Co., Athol, Mass.**Gauges (Carpenters')****Caldwell Mfg. Co. ("Handy" Rule Gauge), 8 Jones, Rochester, N. Y.****Chaplin-Stephens Co., Pine Meadows, Conn.****Gage Tool Co., Vineland, N. J.****Dalston, Henry & Sons (Inc.), Tacony, Philadelphia, Pa.****Goodell-Pratt Co. (Roller, Single, Double & Triple Beam), Greenfield, Mass.****Mack & Co., Rochester, N. Y.****Reissmann, F., West Point, N. Y.****Sandusky Tool Co., Sandusky, O.****Stanley Rule & Level Co., New Britain, Conn.****Winsted Edge Tool Works, Winsted, Conn.****Gauges (Car Wheel, Circumference)****Pratt & Whitney Co., Hartford, Conn.****Gauges (Centre)****Athol Machine Co., Athol, Mass.****Starrett, L. S. Co., Athol, Mass.****Gauges (Chamferer)****Swan, Jas. Co., ("Swan's" Drawing Knife), Seymour, Conn.****Gauges (Compression)****Ashton Valve Co., 271 Franklin, Boston, Mass.****BRISTOL CO., Waterbury, Conn., & 114 Liberty, New York.** (See adv. index & branch offices, end of book)**SCHAEFFER & BUDENBERG MFG. Co., Foxboro, Mass.** (See adv. index & branch offices, end of book)**Co., Foxboro, Mass.** (See adv. index & branch offices, end of book)**Co., Foxboro, Mass.** (See adv. index & branch offices, end of book)**Co., Foxboro, Mass.** (See adv. index & branch offices, end of book)**Co., Foxboro, Mass.** (See adv. index & branch offices, end of book)**Co., Foxboro, Mass.** (See adv. index & branch offices, end of book)**Co., Foxboro, Mass.** (See adv. index & branch offices, end of book)**Co., Foxboro, Mass.** (See adv. index & branch offices, end of book)**Co., Foxboro, Mass.** (See adv. index & branch offices, end of book)**Co., Foxboro, Mass.** (See adv. index & branch offices, end of book)**Co., Foxboro, Mass.** (See adv. index & branch offices, end of book)**Co., Foxboro, Mass.** (See adv. index & branch offices, end of book)**Co., Foxboro, Mass.** (See adv. index & branch offices, end of book)**Co., Foxboro, Mass.** (See adv. index & branch offices, end of book)**Co., Foxboro, Mass.** (See adv. index & branch offices, end of book)**Co., Foxboro, Mass.** (See adv. index & branch offices, end of book)**Co., Foxboro, Mass.** (See adv. index & branch offices, end of book)**Co., Foxboro, Mass.** (See adv. index & branch offices, end of book)**Co., Foxboro, Mass.** (See adv. index & branch offices, end of book)**Co., Foxboro, Mass.** (See adv. index & branch offices, end of book)**Co., Foxboro, Mass.** (See adv. index & branch offices, end of book)**Co., Foxboro, Mass.** (See adv. index & branch offices, end of book)**Co., Foxboro, Mass.** (See adv. index & branch offices, end of book)**Co., Foxboro, Mass.** (See adv. index & branch offices, end of book)**Co., Foxboro, Mass.** (See adv. index & branch offices, end of book)**Co., Foxboro, Mass.** (See adv. index & branch offices, end of book)**Co., Foxboro, Mass.** (See adv. index & branch offices, end of book)**Co., Foxboro, Mass.** (See adv. index & branch offices, end of book)**Co., Foxboro, Mass.** (See adv. index & branch offices, end of book)**Co., Foxboro, Mass.** (See adv. index & branch offices, end of book)**Co., Foxboro, Mass.** (See adv. index & branch offices, end of book)**Co., Foxboro, Mass.** (See adv. index & branch offices, end of book)**Co., Foxboro, Mass.** (See adv. index & branch offices, end of book)**Co., Foxboro, Mass.** (See adv. index & branch offices, end of book)**Co., Foxboro, Mass.** (See adv. index & branch offices, end of book)**Co., Foxboro, Mass.** (See adv. index & branch offices, end of book)**Co., Foxboro, Mass.** (See adv. index & branch offices, end of book)**Co., Foxboro, Mass.** (See adv. index & branch offices, end of book)**Co., Foxboro, Mass.** (See adv. index & branch offices, end of book)**Co., Foxboro, Mass.** (See adv. index & branch offices, end of book)**Co., Foxboro, Mass.** (See adv. index & branch offices, end of book)**Co., Foxboro, Mass.** (See adv. index & branch offices, end of book)**Co., Foxboro, Mass.** (See adv. index & branch offices, end of book)**Co., Foxboro, Mass.** (See adv. index & branch offices, end of book)**Co., Foxboro, Mass.** (See adv. index & branch offices, end of book)**Co., Foxboro, Mass.** (See adv. index & branch offices, end of book)**Co., Foxboro, Mass.** (See adv. index & branch offices, end of book)**Co., Foxboro, Mass.** (See adv. index & branch offices, end of book)**Co., Foxboro, Mass.** (See adv. index & branch offices, end of book)**Co., Foxboro, Mass.** (See adv. index & branch offices, end of book)**Co., Foxboro, Mass.** (See adv. index & branch offices, end of book)**Co., Foxboro, Mass.** (See adv. index & branch offices, end of book)**Co., Foxboro, Mass.** (See adv. index & branch offices, end of book)**Co., Foxboro, Mass.** (See adv. index & branch offices, end of book)**Co., Foxboro, Mass.** (See adv. index & branch offices, end of book)***Gauges (Draft Recording)****BRISTOL CO. ("Bristol's"), Waterbury, Conn.** (See adv. index & branch offices, end of book)**Gauges (Dynamo & Motor Oil)****American Lubricator Co. ("American"), Detroit, Mich.****LUNKENHEIMER CO. ("Triplex"), Cincinnati, O.** (See adv. index, end of book)**Michigan Lubricator Co. ("Michigan"), Detroit, Mich.****Gauges (Gasoline)**

(See Indicators, Fuel Level)

Gauges (Gas -Recording Pressure)**ASHCROFT MFG. CO., THE ("Edson"), 85, 87 & 89 Liberty, New York.****Works, Bridgeport, Conn.** (See adv. index, end of book)**BRISTOL CO. ("Bristol's"), Waterbury, Conn., & 114 Liberty, New York.** (See adv. index & branch offices, end of book)**CROSBY STEAM GAGE & VALVE Co., 95 Oliver, Boston, Mass.** (See adv. below; branch offices, end of book)**Hobmann & Maurer Mfg. Co., Rochester, N. Y., & 85 Chambers, New York****SCHAEFFER & BUDENBERG MFG. Co., Foxboro, Mass.** (See adv. index & branch offices, end of book)**STANDARD GAUGE MFG. CO., Syracuse, N. Y.** (See adv. index, end of book)**Gauges (Hydraulic)**

(See Gauges, Water)

Gauges (Hydraulic Recording)*BRISTOL CO. ("Bristol's"), Waterbury, Conn.** (See adv. index & branch offices, end of book)**Gauges (Inspectors')****ASHCROFT MFG. CO., 85 Liberty, New York.** Works, Bridgeport, Conn. (See adv. index, end of book)**SCHAEFFER & BUDENBERG MFG. Co., Foxboro, Mass.** (See adv. index & branch offices, end of book)**Starrett, L. S. Co. (for Steel Plates, etc.), Athol, Mass.****Gauges (Keyseat or Splining)****Wyke, Jno. & Co., 898 Saratoga, E. B., Boston, Mass.****Gauges (Limit)****Brown & Sharpe Mfg. Co., Providence, R. I.****Pratt & Whitney Co., Hartford, Conn.****Rogers, Jno. M., Boat, Gauge & Drill Works, Gloucester City, N. J.**

If you have a

Crosby Pressure Recorder

You have the best. It has found many imitators,

BUT NOT ITS EQUAL.

A faithful and untiring servant working for you day and night.

Crosby Steam Gage and Valve Co.,**BOSTON.
NEW YORK.****CHICAGO.
LONDON.**It tells you what's
going on in the
Boiler Room.

Catalog Free.

BRISTOL'S

Recording Gauges

are the Recognized Standard throughout the World for every Commercial Purpose and all Ranges. Made without Gears, Levers, or any fragile multiplying mechanism.

Sensitive Accurate Durable



BRISTOL'S Recording Voltmeters, Ammeters and Wattmeters

ALL RANGES

A.C. and D.C.

Complete Record Always Visible. Simplest Principle. Most Reliable.

PAY FOR THEMSELVES

By Compelling

MORE ECONOMICAL AND EFFICIENT OPERATION

Have Been Used By

THE LEADING ELECTRIC LIGHT AND POWER PLANTS

For the Last Twelve Years. They Are

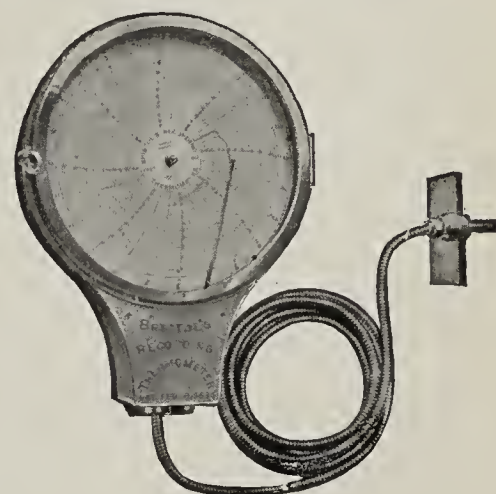
SENSITIVE. ACCURATE. DURABLE.

BRISTOL'S Recording Thermometers FOR ALL CONDITIONS

Where Accurate Records convey useful information and compel Careful and Efficient Operation. Recording portion may be located at a distance from sensitive bulb. **ALL RANGES** up to 1200° F.

INVALUABLE IN

| | | | |
|--------------|-------------|--------------|-------------------------|
| DRY KILNS | CORE OVENS | FLUE GASES | MASH TUBS |
| JAPAN OVENS | VULCANIZERS | GAS IN MAINS | MALT KILNS |
| DRYING OVENS | FEED WATER | HOT WATER | Room Temperatures, etc. |



ALSO

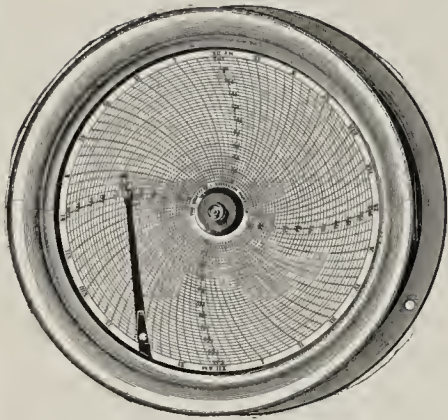
BRISTOL'S

**RECORDING WATER LEVEL GAUGES
MECHANICAL TIME RECORDERS
ELECTRICAL TIME RECORDERS**

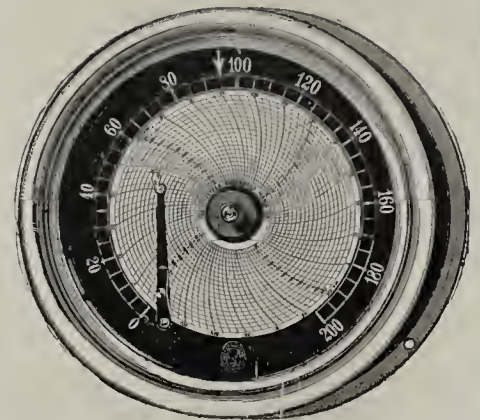
DEPT. 2 FOR CATALOG

MADE ONLY BY **The Bristol Company, Waterbury, Conn., U. S. A.**

SALES OFFICES: **NEW YORK, 114 Liberty Street
CHICAGO, 753 Monadnock Bldg.**



COLUMBIA RECORDING GAUGE.



PERFECT RECORDING GAUGE.

Steam, Air, Water,
Ammonia, Hydraulic
and Draught

PERFECT RECORDING AND INDICATING GAUGE.

GAUGES

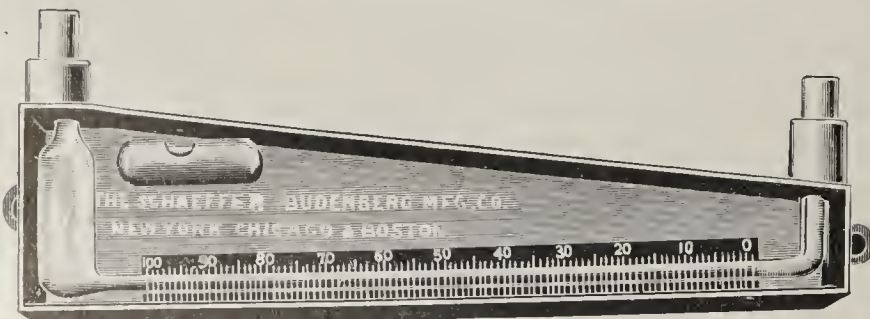
OF EVERY DESCRIPTION



The Schaeffer & Budenberg Mfg. Co.

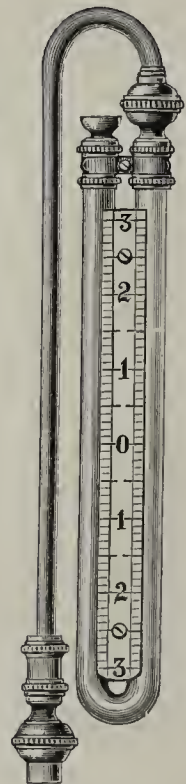
23 DEY STREET, NEW YORK.

15 W. LAKE STREET, CHICAGO.



DIFFERENTIAL DRAUGHT GAUGE.

GENERAL WORKS
Foxboro, Mass.



PORTABLE GAS PRESSURE GAUGE.

Gauges (Locomotive)

(See Gauges, Steam)

Gauges (Lumber)

Filler & Stowell Co., Home Office, Milwaukee, Wis.
Lufkin Rule Co., Saginaw, Mich.

Gauges (Marking)

Chaplin-Stephens Co., Pine Meadow, Conn.
Disston, Henry & Sons (Inc.), Tacony, Phila., Pa.

HAMMACHER, SCHLEMMER & CO.,
133 4th av, New York. (See adv. index, end of book)

Leavitt Machine Co. ("Barrett"), Orange, Mass.
Mack & Co., Rochester, N. Y.
Sandusky Tool Co., Sandusky, O.
Stanley Rule & Level Co., New Britain, Conn.

Gauges (Mercury)

SCHAEFFER & BUDENBERG MFG. Co., Foxboro, Mass. (See adv. index & branch offices, end of book)

Spencer & Fisher ("S. & F."), 258 Stevenson, San Francisco, Cal.

STANDARD GAUGE MFG. CO., Syracuse, N. Y. (See adv. index, end of book)

Gauges (Metric)

Brown & Sharpe Mfg. Co., Providence, R. I.

Gauges (Micrometer)

Brown & Sharpe Mfg. Co., Providence, R. I.
Haines Gauge Co. (Automatic), Provident bldg, Philadelphia, Pa.

Sawyer Tool Mfg. Co., Fitchburg, Mass.
Slocumb, J. T. Co., 29 Oxford, Providence, R. I.
Smith, E. G. Co. ("Columbia" Screw, etc.), Columbia, Pa.

Starrett, L. S. Co., Athol, Mass.

Gauges (Mine Water)

Everhart Brass Works (For Showing Pressure of Air in Mines) Scranton, Pa.

***Gauges (Petrol Depth)**

SCHAEFFER & BUDENBERG MFG. Co. ("Murphy," for Motor Cars), Foxboro, Mass. (See adv. index & branch offices, end of book)

Gauges (Plug & Ring)

Brown & Sharpe Mfg. Co., Providence, R. I.
Clough, R. M., Tolland, Conn.

MORSE TWIST DRILL & MACHINE Co., New Bedford, Mass. (See adv. index, end of book)

Pratt & Whitney Co., Hartford, Conn.

***Gauges (Plumbers')**

BERNZ, OTTO (Testing), 8 13th & S Orange av, Newark, N. J. (See adv. index, end of book)

Gauges (Rafter & Polygon)

Reissmann, F., West Point, N. Y.

Gauges (Rain)

International Instrument Co. ("Ferguson"), 23 Church, Cambridge, Mass.
Taylor Bros. Co., Rochester, N. Y.

Gauges (Recording Pressure)

American Steam Gauge & Valve Mfg. Co., 208 Camden, Boston, Mass.

ASHCROFT MFG. CO., THE ("Edson"), 85, 87 & 89 Liberty, New York; Works, Bridgeport, Conn. (See adv. index, end of book)

Ashton Valve Co., 271 Franklin, Boston, Mass.

BRISTOL CO. ("Bristol's"), Waterbury, Conn., & 114 Liberty, New York. (See adv. index, end of book)

Cleveland Steam Gauge Co., 1619 Mervin, N. W., Cleveland, O.

CROSBY STEAM GAGE & VALVE Co., 97 Oliver, Boston, Mass. (See adv. below; branch offices, end of book)

Jones Gauge Co., 5 Broad, Boston, Mass.

LUNKENHEIMER CO. General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

Quimby Engineering Co. ("U. S. Standard" Mercury), 911 Ridge av, Phila., Pa.

SCHAEFFER & BUDENBERG MFG. Co. ("Metropolitan," "Columbia," "Perfect" "Continuous"), Foxboro, Mass. (See adv. index & branch offices, end of book)

STANDARD GAUGE MFG. CO., Syracuse, N. Y. (See adv. index, end of book)

***Gauges (Recording Tide)**

BRISTOL CO., Waterbury, Conn., & 114 Liberty, N. Y. (See adv. index, & branch offices, end of book)

***Gauges (Recording Vacuum)**

BRISTOL CO. ("Bristol's"), Waterbury, Conn. (See adv. index, & branch offices, end of book)

***Gauges (Rolling Mill)**

Brown & Sharpe Mfg. Co., Providence, R. I.

Gauges (Rule)

Reissmann, F. ("Perfection"), West Point, N. Y.

Gauges (Saw)

Atkins, E. C. & Co. (Inc.), home offices & factories, Indianapolis, Ind.

Disston, Henry & Sons (Inc.), Tacony, Phila., Pa.

Hoe, R. & Co., 504 Grand, N. Y.

Kilborn & Bishop Co. ("The Champion Forged"), 81 Lloyd, New Haven, Conn.

Prouty, C. & Co., Eldred, Pa.

Seymour & Whitlock, 43 Lawrence, Newark, N. J.

Smith, H. B. Machine Co., Smithville, N. J.

Gauges (Scratch)

Billings & Spencer Co. ("Billings" With & Without Screw Attachment), Hartford, Conn.
Goodell-Pratt Co., Greenfield, Mass.
HAMMACHER, SCHLEMMER & CO., 133 4th av, New York. (See adv. index, end of book)

Sawyer Tool Mfg. Co., Fitchburg, Mass.

Starrett, L. S. Co., Athol, Mass.

Welch, T. F. & Co., 65 Sudbury, Boston

Gauges (Screw Pitch)

Athol Machine Co. ("Boss," etc.), Athol, Mass.

Brown & Sharpe Mfg. Co., Providence, R. I.

HAMMACHER, SCHLEMMER & CO., 133 4th av, New York. (See adv. index, end of book)

Massachusetts Tool Co., Greenfield, Mass.

Pratt & Whitney Co., Hartford, Conn.

Sawyer Tool Mfg. Co., Fitchburg, Mass.

Smith, E. G. Co., Columbia, Pa.

Starrett, L. S. Co., Athol, Mass.

Gauges (Sheet Metal)

Brown & Sharpe Mfg. Co., Providence, R. I.

Pratt & Whitney Co. (Decimal), Hartford, Conn.

Gauges (Snap)

Billings & Speucer Co., Hartford, Conn.

Brown & Sharpe Mfg. Co., Providence, R. I.

Cleveland Twist Drill Co., Cleveland, O.

Pratt & Whitney Co., Hartford, Conn.

Gauges (Stair)

Starrett, L. S. Co. (for Carpenters, etc.), Athol, Mass.

Gauges (Steam)

American Steam Gauge & Valve Mfg. Co., 208 Camden, Boston, Mass.

ASHCROFT MFG. CO., THE, 85, 87 & 89 Liberty, New York. Works: Bridgeport, Conn. (See adv. index, end of book)

Ashton Valve Co., 271 Franklin, Boston, Mass.

Belfield, H. & Co., 435 N Broad, Phila., Pa.

BRISTOL CO. ("Bristol's"), Recording, Waterbury, Conn., & 114 Liberty, New York. (See adv. index, end of book)

Cleveland Steam Gauge Co., 1619 Merwin, N. W., Cleveland, O.

CROSBY STEAM GAGE & VALVE Co., 97 Oliver, Boston, Mass. (See adv. below; branch offices, end of book)

Hohmann & Mauer Mfg. Co. (High Grade Vacuum Pressure), Rochester, N. Y.

LUNKENHEIMER CO., General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

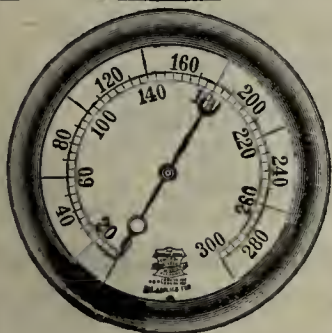
Marsh, Jas. P. & Co., 224 Washington, Chicago

Quimby Engineering Co. ("U. S. Standard"), 915 Ridge av, Phila., Pa.

SCHAEFFER & BUDENBERG MFG. Co., Foxboro, Mass. (See adv. index & branch offices, end of book)

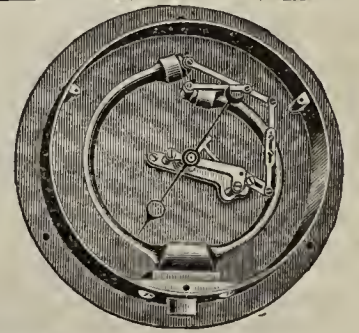
STANDARD GAUGE MFG. CO., Syracuse, N. Y. (See adv. index, end of book)

Star Brass Mfg. Co., 103 E. Dedham, Boston, Mass.



"THE CROSBY GAGE."

As designed and manufactured under the Crosby Patents,
IS UNIVERSALLY ACKNOWLEDGED
SUPERIOR TO ALL AND EQUALLED BY NONE
IN CONSTRUCTION AND ACCURACY.



It is not like other makes, tested at one point only, but is tested and guaranteed under pressure, pound by pound.

**CROSBY STEAM
GAGE AND VALVE CO.,**

BOSTON. NEW YORK. CHICAGO. LONDON.

BEST DESIGN. BEST MATERIALS. BEST METHODS. BEST WORKMANSHIP. ONLY IN THE CROSBY GAGE.

U. S. Gauge Co., 67 Wall, New York, N. Y.
Utica Steam Gauge Co., 123 Liberty, New York
Wright Mfg. Co., 55-59 Woodbridge, W., De-
troit, Mich.

WHITING FOUNDRY EQUIPMENT
Co., Harvey, Ill. (See adv. index, & branch
offices, end of book)

WILLIAMS, D. T. VALVE CO., 904
B'way, Cincinnati, O. (See adv. index, end
of book)

Gauges (Surface)

Billings & Spencer Co., Hartford, Conn.
Brown & Sharpe Mfg. Co., Providence, R. I.
HAMMACHER, SCHLEMMER & CO.,
133 4th av., New York. (See adv. index,
end of book)
Hoggson & Pettis Mfg. Co., New Haven, Conn.
Massachusetts Tool Co., Greenfield, Mass.
Sawyer Tool Mfg. Co., Fitchburg Mass.
Starrett, L. S. Co., Athol, Mass.
Wyke, John & Co. (Combination), 898 Saratoga,
E. B., Boston, Mass.

Gauges (Syphon)

(See Gauges, Steam)

Gauges (Tank Acid Metal)

Eastwood Wire Mfg. Co., Belleville, N. J.

Gauges (Test)

(See Gauges, Steam)

Gauges (Test Pocket)

Ashton Valve Co., 271 Franklin, Boston, Mass.

Gauges (Thickness)

Brown & Sharpe Mfg. Co., Providence, R. I.
SCHAEFFER & BUDENBERG MFG.
Co., Foxboro, Mass. (See adv. index, &
branch offices, end of book)
Starrett, L. S. Co., Athol, Mass.

Gauges (Thread)

Brown & Sharpe Mfg. Co. ("Acme" Standard
Screw Thread), Providence, R. I.
Pratt & Whitney Co., Hartford, Conn.
Sawyer Tool Mfg. Co., Fitchburg, Mass.
Starrett, L. S. Co., Athol, Mass.

Gauges (Tie Plate)

Buda Foundry & Mfg. Co. ("Ware"), Railway
Exchange bldg, Chicago, Ill.

Gauges (Track)

Buda Foundry & Mfg. Co. ("Huntington," "Caf-
rey-Huntington" & "McManus" Combined
Track Gauge & Lever), Railway Exchange
bldg, Chicago, Ill.

FAIRBANKS, MORSE & CO., "Hun-
tington" (Circular Radial, etc.), Franklin &
Monroe, Chicago, Ill., & 133 Liberty, N. Y.
(See adv. index & branch offices, end of book)

Fox Bros. & Co., 126 Lafayette, New York
Handlan-Buck Mfg. Co., 212 N 3d, St. Louis,
Mo.

Irving Mfg. & Tool Co. (J. F. McCoy Co.,
Prop.), 159 Chambers, New York
Kalamazoo Railway Supply Co., Kalamazoo,
Mich.

KOPPEL, ARTHUR CO., 68 BROAD,
New York. (See adv. index & branch of-
fices, end of book)
Lovejoy Tool Works, 90 Ohio, Chicago, Ill.

Pittsburg Tool & Drop Forge Co., Cheswick,
Pa.

Sheffield Car Co. (The McHenry), Three Rivers,
Mich.
Verona Tool Works, Murtland bldg, Pittsburg,
Pa., & Verona, Pa.

Vicksburg Mfg. Co., Vicksburg, Ind.
WIENER, ERNST CO., 68 Broad, New
York. (See adv. index, end of book)

Gauges (Twist Drill)

Brown & Sharpe Mfg. Co., Providence, R. I.
Standard Tool Co., Central av & P. Ry., Cleve-
land O.

Gauges (Universal Screw Cut- ting)

Billings & Spencer Co., Hartford, Conn.
Cincinnati Tool Co., Cincinnati, O.
Coffin & Leighton, Syracuse, N. Y.
Disston, Henry & Sons (Inc.), Tacony, Phila.,
Pa.

HAMMACHER, SCHLEMMER & CO.,
133 4th av., New York. (See adv. index,
end of book)

Pratt & Whitney Co., Hartford, Conn.
Smith, E. G., Columbia, Pa.
Smith, Otis A. (Countersunk and Depth), Rock-
Standard Tool Co., Cleveland, O. fall, Conn.
Wyke, John & Co., 898 Saratoga, E. B., Boston,
Mass.

Gauges (Urn)

Haydenville Co., Haydenville, Mass.

Gauges (Vacuum)

(See Gauges, Steam)

Gauges (Water)

(See Water Gauges)



"STANDARD"

GAUGES

GAUGES

pressure and vacuum for
every purpose.

RECORDING

pressure and vacuum
gauges.

COUNTERS

for speed and stroke.

CLOCKS

Marine type for every
service.

THERMOMETERS

mechanical and indus-
trial purposes.

TACHOMETERS

Dr. Horn System for in-
dicating and recording
speed.

Eclipse Oil Filters,

Exhaust Heads, Etc.

Standard Gauge Mfg. Co.

Dept. G.

Syracuse, N. Y., U. S. A.

141 Broadway, New York City

47 S. Clinton Street, Chicago

*Gauges (Water Depth)

BRISTOL CO., Waterbury, Conn., &
114 Liberty, New York. (See adv. index, end
of book)

SCHAEFFER & BUDENBERG MFG.
Co. ("Murphy's"), Foxboro, Mass. (See adv.
index & branch offices, end of book)

Gauges (Water Pressure)

(See Gauges, Water)

Gauges (Wheel)

Curran, F., Susquehanna, Pa.
Gage Tool Co., Vineland, N. J.

Gauges (Wire)

Brown & Sharpe Mfg. Co., Providence, R. I.
Disston, Henry & Sons (Inc.), Tacony, Phila.,
Pa.

HAMMACHER, SCHLEMMER & CO.,
133 4th av., N. Y. (See adv. index, end of
book)

Peck, Stow & Wilcox Co., Southington, Conn.

Starrett, L. S. Co., Athol, Mass.

Vulcan Hardware Co., Carlstadt, N. J.

WRIGHT WIRE CO., Worcester,
Mass. (See adv. index & branch offices, end
of book)

Gauges (Wireman's Calculating)

Manhattan Electrical Supply Co., 17 Park pl.
N. Y., & 188 5th av., Chicago, Ill.

Gauges (Worm Thread Tool)

Brown & Sharpe Mfg. Co., Providence, R. I.
MORSE TWIST DRILL & MACHINE
Co., New Bedford, Mass. (See adv. index,
end of book)

Gear Cases

BLISS, E. W. CO., 19 Adams, Brook-
lyn, N. Y. (See adv. index, end of book)

GENERAL ELECTRIC CO., Scheneec-
tady, N. Y. & 44 Broad, New York. (See
adv. index & branch offices, end of
book)

JEFFREY MFG. CO., Columbus, O.
(See adv. index & branch offices, end of
book)

LYON METALLIC MFG. CO. ("Lyon"
Sheet Steel), Aurora, Ill. (See adv. index,
end of book)

Morris, Elmer P. ("Corbett"), 51 Dey, New
York

Woolley Electric Co., Clayton, Mo.
WORCESTER PRESSED STEEL CO.,
Worcester, Mass. (See adv. index, end of
book)

Gear Cutting Machines

(See Machines, Gear Cutting)

Gearing (Cane Mill)

Coldwell-Wilcox Co., Newburgh, N. Y.

FAWCUS MACHINE CO., 2820 Small-
man, Pittsburg, Pa. (See adv. index, end of
book)

NUTTALL, R. D. CO., Fayette, Pitts-
burg, Pa. (See adv. index, end of book)

Gearing (Wharf Drop)

American Ship Windlass Co., Providence, R. I.

*Gears (Angle)

CHICAGO PNEUMATIC TOOL CO.
("Little Giant," "Boyer" for Pneumatic
Tools), Fisher bldg, Chicago, Ill. (See adv.
index & branch offices, end of book)

Gears (Automobile Equalizing)

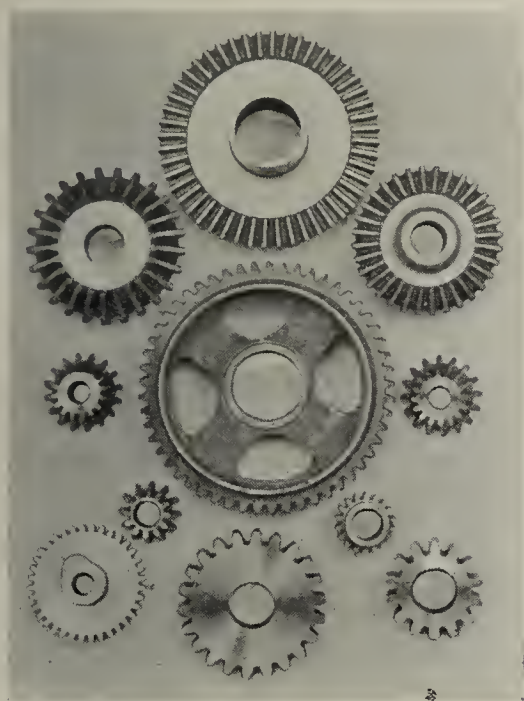
Borbein Auto Co., 2109 N 9th, St. Louis, Mo.
Boston Gear Works (To Order), Norfolk Downs,
Mass.

Bultman, F. H. & Co., 2108 Superior Viaduct,
Cleveland, Ohio

Brown-Lipe Gear Co., 208 S Geddes, Syracuse,
N. Y.

Brown & Sharpe Mfg. Co., Providence, R. I.
Cullmau Wheel Co., 1030 Dunning, Chicago, Ill.

Dayton Electrical Mfg. Co. ("Gray"), 32 S St.
Clair, Dayton, O.



You May Think

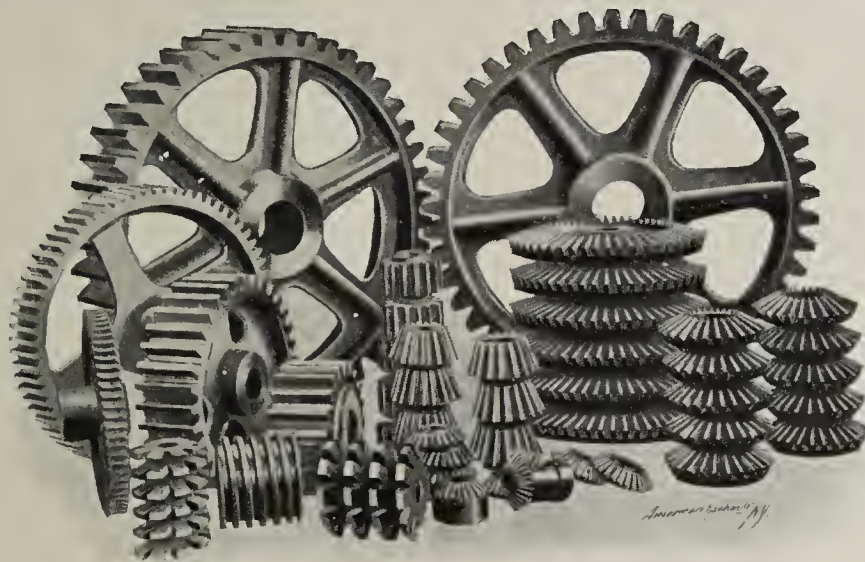
that it's all nonsense when we assert that Nuttall Cut and Planed Gears will save from 20 to 40% in power, but don't you think it worth inquiring about?

Let our experts talk with you

R. D. NUTTALL CO.

Pittsburg, Pa.

GEARS
OF EVERY
KIND



CUT
GEARS

Complete Installations of Machinery for Operating LIFT and DRAW BRIDGES

Special Machinery for Steel Mills, Glass Works, Axle Works, Etc.

AXLE CUTTING OFF AND CENTERING MACHINES.

FAWCUS MACHINE CO., Pittsburg, Pa.

"QURIDE"



GEARS

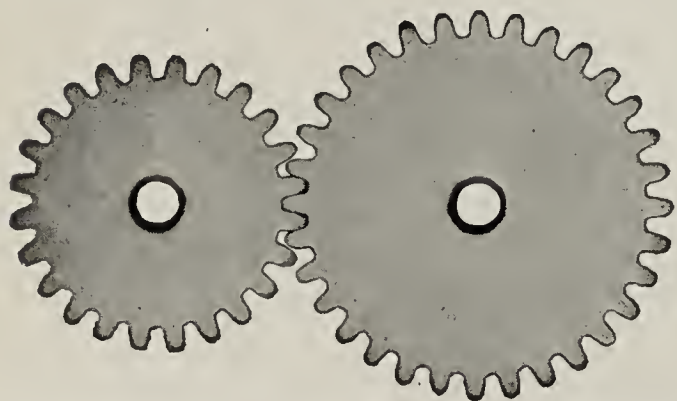
ARE SILENT RUNNING

LET US TELL YOU MORE ABOUT "QURIDE"

PICROME HIDE CO.

SYRACUSE, N. Y.

RODNEY DAVIS,



Gears of All Kinds

MADE AND CUT.

624 RACE STREET,

PHILADELPHIA, PA.

GEARS

ALL KINDS.

HEAVY MACHINE MOULDED GEARS A SPECIALTY

SHAFTING, PULLEYS, HANGERS, FRICTION CLUTCHES, ETC.

THE A. & F. BROWN COMPANY

ENGINEERS, FOUNDERS, MACHINISTS AND MILLWRIGHTS

**WORKS:
ELIZABETHPORT, N. J.**

**ENGINEERING OFFICE and SALESROOMS:
25 Dey Street, NEW YORK CITY**

GEARS

SPUR, SPIRAL, INTERNAL, BEVEL, INTERMITTENT,
or any kind of STEEL, BRONZE, CAST IRON,
BRASS, FIBER, RAWHIDE or any MATERIAL.

GRANT'S "TREATISE ON GEARS," ONE DOLLAR.

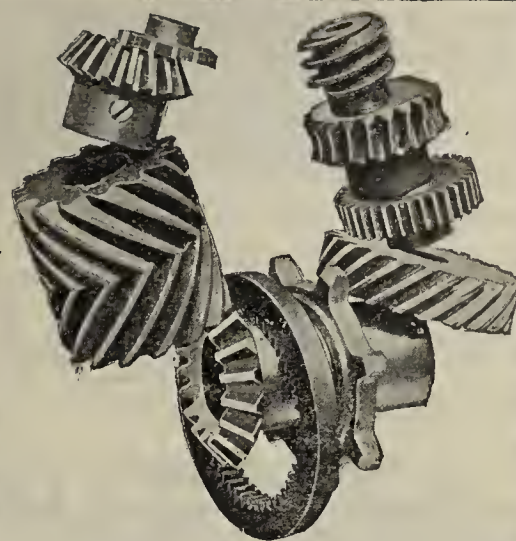
ASK FOR A CATALOG.

"HURRY-ORDERS AND BREAK-DOWN JOBS" Immediate Attention.

PHILADELPHIA GEAR WORKS, Inc.

GEO. B. GRANT, Pres. & M. E.

PHILADELPHIA



FAWCUS MACHINE CO., 2820 Small-
man, Pittsburg, Pa. (See adv. index, end of book)

Forg, Peter, 50 Park, Somerville, Mass.

Garford Co., Elyria, O.

Gleason Works, Rochester, N. Y.

Globe Machine & Stamping Co., 970 Hamilton,
Cleveland, O.

Loug Arm System Co., Cleveland, Ohio.

Lowe Bros. Machine Works, Rear Axle &
Equalizing Gear Combined, 38 W. Town,
Cleveland, O.

Muncie Auto Parts Co., Muncie, Ind.

NUTTALL, R. D. CO., Fayette, Pitts-
burg, Pa. (See adv. index, end of book)

Providence Engineering Works, Providence, R. I.

Relay Motor Car Co. ("Wyoma"), Reading, Pa.

Ross Gear & Tool Co., Lafayette, Ind.

Smith, A. O. Co., Clinton bet Park & Virginia,
Milwaukee, Wis.

Spacke, F. W. Mch. Co., Indianapolis, Ind.

Steel Ball Co., 832 Austin av, Chicago, Ill.

Virtue & Pound Mfg. Co., Owatonna, Minn.

Warner Gear Co. ("Warner"), Muncie, Ind.

Webster Mfg. Co., 1075 W 15th, Chicago, Ill.

Smith, A. O. Co., Clinton bet Park & Virginia,
Milwaukee, Wis.
Steam Carriage Boiler Co., Oswego, N. Y.
Weber, O. F. Mfg. Works, Albany, N. Y.

Gears (Automobile Steering, Reversible)

Borbein, H. F. & Co., 2108 N 9th, St. Louis,
Mo.

Butlaman, F. H. & Co., 2108 Superior Via-
duct, Cleveland, Ohio

Dyke, A. L. Automobile Supply Co., Walton &
Olive, St. Louis, Mo.

Neustadt, J. H. Co., 826 S 18th, St. Louis, Mo.

Smith, A. O. Co., Clinton bet Park & Virginia,
Milwaukee, Wis.

*Gears (Brick Machinery)

NUTTALL, R. D. CO., Fayette & Gar-
rison pl, Pittsburg, Pa. (See adv. index,
end of book)

*Gears (Cable Reel Winding)

AITON MACHINE CO., 126 Liberty,
New York. Works: Harrison, N. J. (See
adv. index, end of book)

*Gears (Cement Machinery)

FAWCUS MACHINE CO., 2820 Small-
man, Pittsburg, Pa. (See adv. index, end
of book)

NUTTALL, R. D. CO., Fayette & Gar-
rison pl, Pittsburg, Pa. (See adv. index,
end of book)

Gears (Cut)

Allentown Foundry & Machine Works (Bevel,
Mitre, Mortise, Spur, etc.), Allentown, Pa.

ALLIS-CHALMERS CO., Milwaukee,
Wis. (See adv. index and branch offices,
end of book)

AMERICAN WELL WORKS, Aurora,
Ill. (See adv. index & branch offices, end of
book)

Arthur Co., 188 Front, N. Y. (See adv. index,
end of book)

Balr & Gazzam Mfg. Co., 29th & Smallman,
Pittsburg, Pa.

Bilgram, Hugo (Bevel, Mitre, Mortise, Spur,
etc.), 1235 Sp'g Garden
BLISS, E. W. CO., 19 Adams, Brook-
lyn, N. Y. (See adv. index, end of book)

Blount & Lovell (Gear Cutting), 100 High, Bos-
ton, Mass.

Boston Gear Works (Bevel Mitre, Mortise Spur,
etc., also Brass), Norfolk Downs, Mass.
BROWN, A. & F. CO., 25 Dey, New
York. Works: Elizabethport, N. J. (See adv.
index, end of book)

Brown & Sharpe Mfg. Co., Providence, R. I.

Buffalo Gear & Pattern Works, 18 Elk, Buffalo,
N. Y.

Butlman, F. H. & Co., 2108 Superior Viaduct,
Cleveland, O.

Chickasaw Iron Works, Memphis, Tenn.

COHOES IRON FOUNDRY & MA-
chine Co., Cohoes, N. Y. (See adv. index,
end of book)

Cresson, Geo. V. Co., Allegheny av, W of 17th,
Phila., Pa., & West St Bldg, N. Y.

DAVIS, RODNEY (All Kinds), 626
Race, Phila., Pa. (See adv. index, end of
book)

DODGE MFG. CO., Mishawaka, Ind.
(See adv. index & branch offices, end of book)

Eagle Tool & Machine Co. (Also Rack), 519
Anu, Allegheny, Pa.

Earle Gear & Machine Co. (of all Descriptions),
Oxford & Mascher, Phila., Pa.

Eberhardt Bros. Machine Co. (All Kiuds), New-
ark, N. J.

Falls Rivet & Machine Co., Cuyahoga Falls, O.

Farrel Foundry & Machine Co. (Machine Cut),
Ansonia, Conn.

FAWCUS MACHINE CO. (Steel, Iron,
Bronze & Rawhide), 2820 Smallman, Pitts-
burg, Pa. (See adv. index, end of book)

Fellows Gear Shaper Co., Springfield, Vt.

Fogarty, James H. (Electric Railway Sectional),
126 Liberty, New York

Foot Bros. Gear & Machine Co., 30 S Clinton,
Chicago, Ill.

Gauschow, Wm., Co. (Bevel, Mitre, Mortise,
Spur, etc.), 12 S Clinton, Chicago, Ill.

Gleason Tool Co., Rochester, N. Y.

Gould & Eberhardt (Spiral, Spur, Mitre, Bevel,
Worm, etc.), Newark, N. J.

Grant Gear Works, 6 Portland, Boston, Mass.

Greenwald, I. & E. Co., 720 E Pearl, Cincin-
nati, O.

Hardinge Bros., 1036 Lincoln av, Chicago.

Harrington, Edwin Son & Co., 17th & Callow-
hill, Philadelphia, Pa.

Holyoke Machine Co., Holyoke, Mass.

Horsburgh & Scott, 5114 Hamilton, Cleveland, O.

James, D. O., 35 Canal, Chicago, Ill.

Jones, E. D. & Sons Co. (Bevel, Mitre, Mortise,
Spur, etc.), Pittsfield, Mass.

Kentucky Gear & Machine Co., Louisville, Ky.

LANE MFG. CO., Montpelier, Vt.
(See adv. index, end of book)

Leffel, Jas. & Co., Springfield, O.

Link Belt Co. (Bevel, Mitre, Spur, etc.), West
39th & Stewart ave, Chicago, Ill., & 299
B'way, New York

Medart Patent Pulley Co. (Plain or Mortise),
3500 De Kalb av, St. Louis, Mo.

MINNEAPOLIS STEEL & MACHIN-
ery Co., Minneapolis, Minn. (See adv. in-
dex and branch offices, end of book)

New York Gear Works, 56 Greenpoint av,
Brooklyn, N. Y.

Nordyke & Marmon Co. (Mitre, Iron, Spur,
Bevel, Mortise, etc.), Indianapolis, Ind.

NUTTALL, R. D. CO. (Spur, Bevel,
Mitre, Spiral, Worm & Herringbone),
Fayette, Pittsburg, Pa. (See adv. index,
end of book)

Pacific Gear & Tool Works (Bevel, Mitre, Mor-
tise, Spur, etc.), 523 Mission, San Fran-
cisco, Cal.

PHILADELPHIA GEAR WORKS
(Inc.) (Bevel Planed Teeth), 7th & Cherry,
Phila., Pa. (See adv. above)

PICROME HIDE CO. ("Inside"), Syr-
acuse, N. Y. (See adv. index, end of book)

Pioneer Machine Works (Jas. Hartley, Prop.),
75 Delavan, Brooklyn, N. Y.

Platt Iron Works Co., Dayton, O., & 100 B'way,
New York

Pcole Engineering & Machine Co., Baltimore,

Gears (Automobile Running)

Auto Supply Co., 1662 B'way, New York.

Borbein Auto Co., 2108 N 9th, St. Louis, Mo.

Bultman, F. H. & Co., 2108 Superior Viaduct,
Cleveland, Ohio

Covert Motor Vehicle Co., Lockport, N. Y.

Dyke, A. L. Automobile Supply Co., Walton &
Olive, St. Louis, Mo.

Elwell-Parker Electric Co., Hamilton, Cleveland,
Ohio

Light Mfg. & Foundry Co., Union & Queen,
Pottstown, Pa.

Locke Regulator Co., Salem, Mass.

Loomis Autocar Co., Westfield, Mass.

Muncie Wheel & Jobbing Co., Muncie, Ind.

Neustadt Automobile & Supply Co., 826 S 18th,
St. Louis, Mo.

Relay Motor Car Co. ("Wyoma"), Reading, Pa.

Smith, A. O. Co., Clinton bet Park & Virginia,
Milwaukee, Wis.

Standard Roller Bearing Co., 49th & Girard av,
Philadelphia, Pa.

Torbensen Motor Car Co., Bloomfield, N. J.

Walker, E. C. Co., Louisville, Ky.

Wall, R. C. Mfg. Co., 1334 Race, Phila., Pa.

GEARS (Automobile Steering, Ir-
reversible)

Borbein Auto Co., 2108 N 9th, St. Louis, Mo.

Boston Gear Works, Norfolk Downs, Mass.

Brown-Lipe Gear Co., 208 S Geddes, Syracuse,
N. Y.

Bultman, F. H. & Co., 2108 Superior Viaduct,
Cleveland, Ohio

Columbus Screw & Machine Co. ("Columbus"),
Columbus, Ohio

Elyria Machine Parts Co., Elyria, Ohio.

Garford Co., Elyria, O.

GENERAL ELECTRIC CO. ("Lamp"),
Schenectady, N. Y., & 44 Broad, New York.
(See adv. index & branch offices, end of book)

Locke Regulator Co., Salem, Mass.

Morse, Williams & Co. (Hindley), West End
Trust bldg, Philadelphia, Pa.

Redington, F. B. Co., 35 W Monroe, Chicago
Sawyer Gear Works, 102 St. Clair, Cleveland, O.
Simmonds Mfg. Co., Pittsburg, Pa.
Skillin & Richards Mfg. Co. (All Kinds), 147
Fulton, Chicago, Ill.
Sommerfeld Machine & Mfg. Co. (Bevel, Mor-
tise, Spur, etc., Cast Iron or Brass), 220 2d
av., Pittsburg, Pa.
Spacke, F. W. Co., Madison & Merritt, India-
napolis, Ind.
Syracuse Rawhide Mfg. Co. (Cut Rawhide),
Syracuse, N. Y.
Taylor-Wilson Mfg. Co., McKees Rocks, Pa.
Townsend Furnace & Machine Shop Co. (Spur,
Trump Mfg. Co., Springfield, O.
Turley, H. G., 214 Locust, St. Louis, Mo.
Union Foundry & Machine Co., Pittsburg, Pa.
Van Dorn & Dutton Co., 1798 E Madison av,
Cleveland, O.
Vulcan Iron Works, Wilkes-Barre, Pa.
Walcott, Geo. & Son, Jackson, Mich.

*Gears (Fibre)

DODGE MFG. CO., Mishawaka, Ind.
(See adv. index & branch offices, end of book)
FAWCUS MACHINE CO., 2820 Small-
man, Pittsburg, Pa. (See adv. index, end
of book)
NUTTALL, R. D. CO., Fayette, Pitts-
burg, Pa. (See adv. index, end of book)
PHILADELPHIA GEAR WORKS
(Inc.), 7th & Cherry, Philadelphia, Pa. (See
adv. on preceding page)

*Gears for Dredges

FAWCUS MACHINE CO., 2820 Small-
man, Pittsburg, Pa. (See adv. index, end
of book)

*Gears for Steam Shovels

FAWCUS MACHINE CO., 2820 Small-
man, Pittsburg, Pa. (See adv. index, end
of book)

Gears (Friction Clutch)

AMERICAN WELL WORKS, Aurora,
Ill. (See adv. index & branch offices, end of
book)
Chickasaw Iron Works, Memphis, Tenn.
DODGE MFG. CO., Mishawaka, Ind.
(See adv. index & branch offices, end of book)
Ehram, J. B. & Sons Mfg. Co., Enterprise,
Kan.
FAWCUS MACHINE CO., 2820 Small-
man, Pittsburg, Pa. (See adv. index, end of
book)
Hunt, Rodney Machine Co., Orange, Mass.
Medart Patent Pulley Co., 3500 DeKalb av, St.
Louis, Mo.
OIL WELL SUPPLY CO., 215 Water,
Pittsburg, Pa. (See adv. index, end of book)
National Gear Wheel & Fdy. Co., Allegheny, Pa.
Platt Iron Works Co., Dayton, O., & 100 B'way,
New York
Poole Engineering & Machine Co., Baltimore,
Md.
Syracuse Rawhide Mfg. Co., Syracuse, N. Y.

Gears (Internal)

Bilgram, Hugo, 1235 Sp'g Garden, Phila., Pa.
Brown & Sharpe Mfg. Co., Providence, R. I.
Bultman, F. H. & Co., 2108 Superior Viaduct
Cleveland, O.
DAVIS, RODNEY, 626 Race, Phila.,
Pa. (See adv. index, end of book)
DODGE MFG. CO., Mishawaka, Ind.
(See adv. index & branch offices, end of book)
Earle Gear & Machine Co., Oxford & Mascher,
Phila., Pa.
Eberhardt Bros. Machine Co., Newark, N. J.
Ganschow, Wm. Co., 12 S Clinton, Chicago, Ill.
Gould & Eberhardt, Newark, N. J.
New Process Raw Hide Co. (Raw Hide), Syra-
cuse, N. Y.
NUTTALL, R. D. CO., Fayette, Pitts-
burg, Pa. (See adv. index, end of book)
PHILADELPHIA GEAR WORKS
(Inc.) (Brass, etc.), Philadelphia, Pa.
(See adv. on preceding page)
PICROME HIDE CO. ("Inside"), Syr-
acuse, N. Y. (See adv. index, end of book)
Poole Engineering & Machine Co., Baltimore,
Md.
Sommerfeld Machine & Mfg. Co. (Steel, Cast
Iron & Brass), Pittsburg, Pa.
Syracuse Rawhide Mfg. Co., Syracuse, N. Y.
Taylor-Wilson Mfg. Co., McKees Rocks, Pa.
Union Foundry & Machine Co., Pittsburg, Pa.
Welch, T. F. Co. (Brass), 55 Sudbury, Boston,
Mass.

Gears (Machine Moulded)

AMERICAN BRAKE SHOE & FOUN-
dry Co., 170 B'way, New York, Works &
Sales Office, Chicago Heights, Ill. (See adv.
index & branch offices, end of book)
AMERICAN WELL WORKS, Aurora,
Ill. (See adv. index & branch offices, end of
book)
Birdsboro Steel Foundry & Machine Co. (Iron
& Steel), Birdsboro, Pa.
BROWN, A. & F. CO., 25 Dey, New
York, Works: Elizabethport, N. J. (See adv.
index, end of book)
Buda Foundry & Machine Co., Railway Ex-
change bldg, Chicago, Ill.
Caldwell, H. W. & Son Co. (The "Walker"),
18th & Western av, Chicago, Ill.
Cresson, Geo. V. Co., Allegheny av., W of 17th,
Phila., Pa.
DODGE MFG. CO., Mishawaka, Ind.
(See adv. index & branch offices, end of book)
Farrel Foundry & Machine Co., Ansonia, Conn.
FAWCUS MACHINE CO., 2820 Small-
man, Pittsburg, Pa. (See adv. index, end of
book)

Gleason Tool Co., Rochester, N. Y.
Greenwald, I. & E. Co., 720 E Pearl, Cincin-
nati, O.
Mesta Machine Co., Lewis blk, Pittsburg, Pa.
MINNEAPOLIS STEEL & MACHIN-
ery Co., Minneapolis, Minn. (See adv. in-
dex & branch offices, end of book)
National Gear Wheel & Foundry Co., South av
& Walker, Allegheny, Pa.
Plamondon, A. Mfg. Co., 57 S Clinton, Chicago,
Poole Engineering & Machine Co., Baltimore.
Shriver, T. & Co., 333 E 56th, N. Y. Md.
Taylor-Wilson Mfg. Co., McKees Rocks, Pa.
Union Foundry & Machine Co., Pittsburg, Pa.
United Engineering & Foundry Co. (Iron or
Steel), Farmers' Bank Bldg., Pittsburg, Pa.

Gears (Marine, Reversing)

Alexander & Crouch, 68 Monroe, Chicago, Ill.
Auto Engine Works, St. Paul, Minn.
Automatic Clutch Co., Akron, O.
Ball Mfg. Co., Stamford, Conn.
Brodie, Wm. H. Co. ("Perfection"), 46 Vesey,
New York
Brownell, Trebert Co., Rochester, N. Y.
Brown & Sharpe Mfg. Co. (Repair Parts), Provi-
dence, R. I.
Continental Motor Mfg. Co., Muskegon, Mich.
Cross, M. O. Engine Co., 12 Atwater, W, De-
troit, Mich.
Crouch, Chas. P. & Co., 472 Carroll av, Chi-
cago, Ill.
Eastern House Engine Co., Taunton, Mass.
FAWCUS MACHINE CO. (Repair
Parts), 2820 Smallman, Pittsburg, Pa. (See
adv. index, end of book)
Gies Gear Co. ("Gies") for Gasoline Motor
Boats), 345 Bellevue av, Detroit, Mich.
Grand Rapids Gas Engine & Yacht Co., Grand
Rapids, Mich.
Holliday Mfg. & Engineering Co., 160 Bunker,
Chicago, Ill.
Harvard Marine & Auto. Co. ("Hub"), Cam-
bridge, Mass.
Inventor Mfg. Co. ("Adams"), 134 Elliot, Bos-
ton, Mass.
Jager, Chas. J. Co., 281 Franklin, Boston, Mass.
Johnson, Carlyle Machine Co., 356 Asylum,
Hartford, Conn.
Kaestner, Chas. Mfg. Co., South Bend, Ind.
Kalb & Berger Mfg. Co., 60 Centre, New York
Michigan Motor Co., Grand Rapids, Mich.
Milwaukee Auto. Engine & Supply Co., Milwan-
kee, Wis.
New York Gear Works ("Ball") Improved Re-
verse Gear for Motor Boats), 56 Greenpoint
NUTTALL, R. D. CO. (Repair Parts),
Fayette, Pittsburg, Pa. (See adv. index,
end of book)
Perfection Reversing Gear & Supply Co. ("Per-
fection"), 45 Vesey, N. Y. City
Snow & Petrelli Mfg. Co. ("Joe's"), New Haven,
Conn.
Tuttle, H. A. Mfg. Co., Kaiser pl, E. N., Nor-
walk, Conn.

Gears (Marine Steering, Hand & Steam)

Dake Engine Co. (Steam), Grand Rapids, Mich.
Durkee, C. D. & Co. (Hand), 2 South, New
York
Edson Mfg. Co. (Hand), 272 Atlantic av, Bos-
ton, Mass.
Hyde Windlass Co. ("Brown" Steam), Bath,
Me.
Johnston, Wm. T. Co. ("Cincinnati" Steam),
520 Main, Cincinnati, O.

Laughlin, Thomas Co. (Hand), 143 Fore, Port-
land, Me.
Lockwood Mfg. Co. ("Reeds" Hand), 61 Sum-
mer, Boston, Mass.
Marine Hardware Co. (Hand), Peabody, Mass.
Marine Mfg. & Supply Co. ("Columbia,"
"Lavarck," "Planet," Hand), 158 South,
New York
Pawling & Harnischfeger (Steam), 38th & Na-
tional avs, Milwaukee, Wis.
Richardson's, N. Sons ("Challenge," "Little
Giant" Hand), Gloucester, Mass.
Sheriffs Mfg. Co., Milwaukee, Wis.
Stoddart, A. P. & Co. (Hand), Gloucester, Mass.
Textile Finishing Machine Co. (Steam), 17 Ex-
change pl, Providence, R. I.
Turner Brass Works (Hand), 68 N Franklin,
Chicago, Ill.
Verdon, Fred'k A. Co. (Steam), W. New Brigh-
ton, S. I., N. Y.
Williamson Bros. Co. (Steam), 423 N 13th,
Philadelphia, Pa.

*Gears (Mill)

BROWN, A. & F. CO., 25 Dey, New
York, Works: Elizabethport, N. J. (See
adv. index, end of book)
FAWCUS MACHINE CO., 2820 Small-
man, Pittsburg, Pa. (See adv. index, end
of book)

*Gears (Mining Machine)

NUTTALL, R. D. CO., Fayette, Pitts-
burg, Pa. (See adv. index, end of book)

Gears (Raw Hide)

(See Gears & Pinions, Rawhide)

Gears (Reversing)

(See Gears, Marine Reversing)

Gears (Running)

(See Gears, Automobile Running)

Gears (Spiral)

(See Gears, Cut)

Gears (Spur)

(See Gears Cut)

*Gears (Steering)

(See also Gears, Automobile, Steering; also
Gears, Marine, Steering)

DAVIS, RODNEY, 626 Race, Phila.,
Pa. (See adv. index, end of book)
FAWCUS MACHINE CO., 2820 Small-
man, Pittsburg, Pa. (See adv. index, end
of book)

Gears (Swinging)

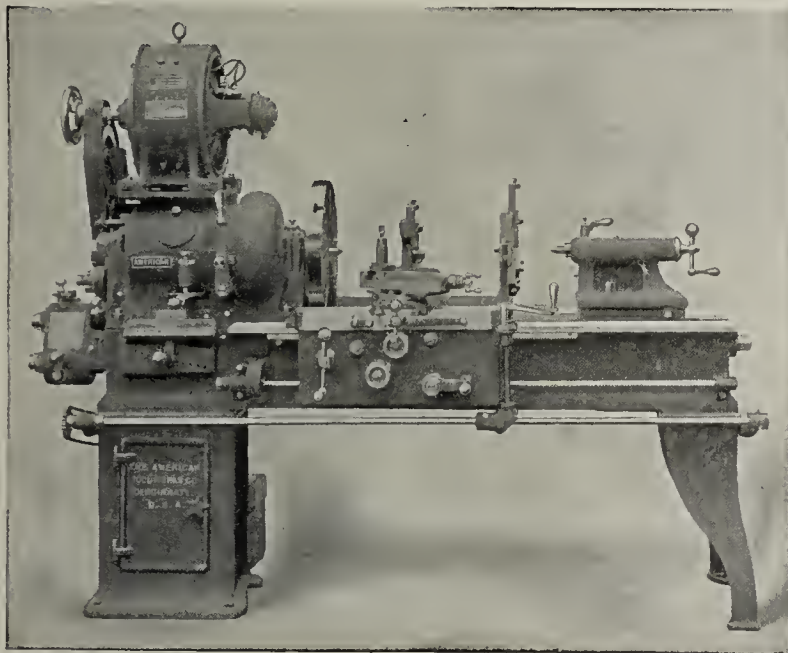
Dake Engine Co., Grand Haven, Mich.
FAWCUS MACHINE CO., 2820 Small-
man, Pittsburg, Pa. (See adv. index, end
of book)

Gears (Transmission or Speed Changing)

Auto Supply Co., 1662 B'way, N. Y.
Autocar Equipment Co. ("Continental"), 240 W
Lake, Chicago, Ill.
Blomstrom, C. H. Motor Co., 1284 River, De-
troit, Mich.
Blood Bros. Automobile & Machine Co., Kala-
mazoo, Mich.
Brennan Motor Mfg. Co., 101 Grape, Syracuse,
N. Y.
Brown & Sharpe Mfg. Co. (Repair Parts), Provi-
dence, R. I.
Buffalo Engine Co. ("Salisbury"), 272 Michi-
gan, Buffalo, N. Y.
Cady, C. N. Co., Canastota, N. Y.
Case Mfg. Co., St. Clair & Curtis avs, Colum-
bus, O.

Westinghouse

Electric Motors For Industrial Purposes



Westinghouse Types Motor Driving "American" Lathe.

The Advantages

of electric drive for all industrial purposes are no longer disputed; it is cheaper, cleaner, safer, more efficient than other forms of power. To get the best results however it is of great importance

to use only motors that are absolutely reliable, that can be operated by unskilled labor, and that will run day in and out with but an occasional oiling. Westinghouse Motors possess all these qualities; they are successfully driving every kind of apparatus, in every class of work, under every condition of service.

Westinghouse Electric & Mfg. Co.

Atlanta
Baltimore
Boston

Buffalo
Chicago
Cincinnati

Cleveland
Dallas
Denver

Detroit
Kansas City
Los Angeles

Minneapolis
New Orleans
New York

Philadelphia
Pittsburg
St. Louis

Salt Lake City
San Francisco
Seattle
Syracuse

Canada: Canadian Westinghouse Co., Ltd., Hamilton, Ontario.

Mexico: G. & O. Braniff & Co., City of Mexico

DIRECT CURRENT

GENERATORS AND MOTORS

Our apparatus is designed to meet the requirements of the best modern practice and has won an enviable reputation for high efficiency and great endurance under the most severe conditions of service. Scientifically constructed of the best materials, they give the best commercial value.

SPRAGUE ELECTRIC COMPANY,

GENERAL OFFICES:

527 WEST 34TH STREET, NEW YORK CITY.

PHOENIX

DYNAMOS—MOTORS—CONTROLLERS.

Alternating and Direct Current

LIGHT AND POWER SYSTEMS.

TRANSFORMERS.
SWITCHBOARDS.

ARC LAMPS.
INCANDESCENT LAMPS

SWITCHES
STARTERS

PHOENIX ELECTRIC COMPANY, MANSFIELD, OHIO.

GENERAL ELECTRIC COMPANY

ELECTRIC APPARATUS AND EQUIPMENT

For Urban, Suburban and Interurban Railways.

The Sprague-General Electric System of train control is used by all the leading electric railways in the world which run electric cars in trains.

GENERAL ELECTRIC COMPANY OF NEW YORK, U. S. A.

PRINCIPAL OFFICE: SCHENECTADY, N. Y.

NEW YORK OFFICE: 44 BROAD STREET.

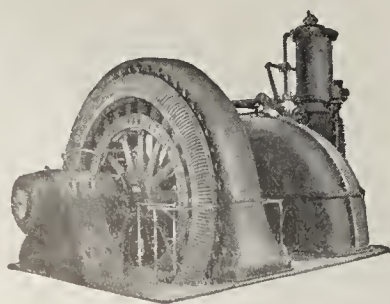
Sales Offices in all large cities in the United States.

For Great Britain and Ireland:

THE BRITISH THOMSON-HOUSTON CO., Ltd.,

Rugby and 83 Cannon St., London, E. C.

673



ALLIS-CHALMERS
GENERATOR D. C. TO
HYDRAULIC TURBINE

ALLIS-CHALMERS CO.

COMPLETE POWER and ELECTRICAL EQUIPMENTS of every DESCRIPTION

Choose the type of prime mover best suited to your requirements.

STEAM TURBINE CORLISS ENGINE
HYDRAULIC TURBINE GAS ENGINE

We will build the complete generating unit and furnish all auxiliary apparatus, such as Condensers, Motor-generator Sets, Transformers, Converters, Motors, Controllers, Etc.

Fast Machine & Tool Co., 24th & Greenfield av., Milwaukee, Wis.
FAWCUS MACHINE CO. (Repair Parts), 2820-2828 Smallman, Pittsburg, Pa. (See adv. index, end of book)

Fenn Machine Co., 734 Main, Hartford, Conn.
 Gies Gear Co., Detroit, Mich.
 Hatcher Auto Parts Co., Cleveland, O.
 Kaestner, Chas. Mfg. Co., South Bend, Ind.
 Lear, Oscar Automobile Co., Gay & 4th, Columbus, O.
 Locke Regulator Co., Salem, Mass.
 Loomis Auto Car Co., Westfield, Mass.
 Maxwell & Fitch Co., Rome, N. Y.
 Milwaukee Auto Engine & Supply Co., 706 Winnebago, Milwaukee, Wis.
 Milwaukee Motor Co., 615 Clybourn, Milwaukee, Wis.
 Motor Car Power Equipment Co., 577 Grove, Milwaukee, Wis.
 Murray, W. B., 1253 Milwaukee av., Chicago, Ill.

New York Gear Works ("Ball" Improved), 56 Greenpoint av., Brooklyn, N. Y.
NUTTALL, R. D. CO. (Repair Parts), Fayette, Pittsburg, Pa. (See adv. index, end of book)

O. K. Machine Co., 75 Ellicott, Buffalo, N. Y.
 Relay Motor Car Co. ("Wyoma"), Reading, Pa.
 Smith, A. O. Co., Clinton bet Park & Virginia, Milwaukee, Wis.
 Syracuse Gear Co., Syracuse, N. Y.
 Toepfer's, Frank Sons, 46 National av., Milwaukee, Wis.

Trebert Gas Engine Co., 103 Main, W., Rochester, N. Y.
 Upton Machine Co., Beverly, Mass.
 Virtue & Pound Mfg. Co., Owatonna, Minn.

Western Automobile Supply Co., 285 Virginia, Milwaukee, Wis.
 Western Motor Co. ("Rutenber"), Logansport, Ind.

Gears (Worm)

AMERICAN BRAKE SHOE & FOUNDRY CO., 170 B'way, New York. Works & Sales Office, Chicago Heights, Ill. (See adv. index & branch offices, end of book)

AMERICAN WELL WORKS (Cut & Molded), Aurora, Ill. (See adv. index & branch offices, end of book)

Arthur Co., 188 Front, New York
 Bilgram, Hugo, 1235 Spring Garden, Phila., Pa.
 Boston Gear Works, Norfolk Downs, Mass.

BROWN, A. & F. CO., 25 Dey, New York. Works: Elizabethport, N. J. (See adv. index, end of book)

Brown & Suarpe Mfg. Co., Providence, R. I.
 Bultman, F. H. & Co., 2108 Superior Viaduct, Cleveland, O.

Caldwell, H. W. & Son Co. (The "Walker"), 17th & Western av., Chicago, Ill.
 Chain Belt Co., Milwaukee, Wis.

Damascus Bronze Co. ("Damascus" Bronze for Rolling Mills, etc.), Allegheny, Pa.

DAVIS, RODNEY, 624 Race, Phila., Pa. (See adv. opp. preceding page)

DODGE MFG. CO., Mishawaka, Ind. (See adv. index & branch offices, end of book)

Earle Gear & Machine Co., Oxford & Mascher, Phila., Pa.

Eberhardt Bros. Machine Co. (Worm Wheels Generated Without Hobs), Newark, N. J.

FAWCUS MACHINE CO. (Steel, Iron, Bronze & Rawhide), 2820 Smallman, Pittsburg, Pa. (See adv. index, end of book)

Ganshow, Wm. Co., 12 S. Clinton, Chicago, Ill.
 Gould & Eberhardt, Newark, N. J.

Link Belt Co., W. 39th & Stewart av., Chicago, Ill. & 299 B'way, New York

Medart Patent Pulley Co., 3500 De Kalb, St. Louis, Mo.

MINNEAPOLIS STEEL & MACHINERY CO., Minneapolis, Minn. (See adv. index & branch offices, end of book)

MORSE, WILLIAMS & CO. (Dept. of Otis Elevator Co.), 32 S. Broad, Philadelphia, Pa. (See adv. index & branch offices, end of book)

NUTTALL, R. D. CO., Fayette, Pittsburg, Pa. (See adv. index, end of book)

Pacific Gear & Tool Works, 523 Mission, San Francisco, Cal.

PHILADELPHIA GEAR WORKS (Inc.) (Brass, etc.), 7th & Cherry, Philadelphia, Pa. (See adv. index, end of book)

Philadelphia Roll & Machine Co., S 23d & Washington av., Phila., Pa.
 Poole Engineering & Machine Co., Baltimore, Md.
 Sawyer Gear Works, 102 St. Clair, N. W., Cleveland, O.
 Simonds Mfg. Co. (For Electric Railways, etc.), Pittsburg, Pa.
 Syracuse Rawhide Mfg. Co., Syracuse, N. Y.

Taylor-Wilson Mfg. Co., McKee's Rocks, Pa.
 Union Foundry & Machine Co., Pittsburg, Pa.
 Van Dorn & Dutton Co., Cleveland, O.
 Vulcan Iron Works, Wilkes-Barre, Pa.
 Welch, T. F. & Co. (Brass), 55 Sudbury, Boston, Mass.

Gears & Pinions

Arthur Co., 188 Front, New York
 Atha Steel Casting Co. ("Titan," Steel for Motor Gears, etc.), Newark, N. J.
 Baldwin Chain & Mfg. Co., 31 Hermon, Worcester, Mass.

BLISS, E. W. CO. (Electric Railway), 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)

Brown & Sharpe Mfg. Co., Providence, R. I.
 Bultman, F. H. & Co., 131 (Old) Viaduct, Cleveland, O.

Catskill Foundry & Mach. Works, Catskill, N. Y.
 Cullman Wheel Co. (Sprockets only), 1030 Dunming, Chicago, Ill.

DAVIS, RODNEY, 624 Race, Phila., Pa. (See adv. index, end of book)

DODGE MFG. CO., Mishawaka, Ind. (See adv. index & branch offices, end of book)

Duquesne Forge Co., Rankin Station, Pa.
 Falk Co., ft 30th, Milwaukee, Wis.

FAWCUS MACHINE CO., 2820 Smallman, Pittsburg, Pa. (See adv. index, end of book)

Fellows Gear Shaper Co., Springfield, Vt.
 Horsburgh & Scott, 5114 Hamilton, Cleveland, O.

Grant Gear Works, 6 Portland, Boston, Mass.
 New Process Raw Hide Co. (Raw Hide), Syracuse, N. Y.

NUTTALL, R. D. CO. (Rawhide Fibre, etc.), Fayette & Garrison pl., Pittsburg, Pa. (See adv. index, end of book)

Ohio Brass Co., Mansfield, O.
PHILADELPHIA GEAR WORKS, 125 N 7th, Phila., Pa. (See adv. index, end of book)

PICROME HIDE CO. ("Quride"), Syracuse, N. Y. (See adv. index, end of book)

Poole Engineering & Machine Co., Baltimore, Md.

Sawyer Gear Works, 102 St. Clair, N. W., Cleveland, O.

Simonds Mfg. Co. (Electric Railway), Pittsburg, Pa.

Syracuse Rawhide Mfg. Co. (Rawhide), Syracuse, N. Y.

Van Dorn & Dutton Co. (Electric Railway), Cleveland, O.

Western Rawhide & Belting Co. (Rawhide), Milwaukee, Wis.

***Gears & Pinions (Automobile)**

NUTTALL, R. D. CO., Fayette & Garrison pl., Pittsburg, Pa. (See adv. index, end of book)

Gears & Pinions (Rawhide)

Chicago Rawhide Mfg. Co., 75 E. Ohio, Chicago, Ill.

DAVIS, RODNEY, 626 Race, Phila., Pa. (See adv. index, end of book)

Earle Gear & Machine Co., Oxford & Mascher, Philadelphia, Pa.

FAWCUS MACHINE CO., 2820 Smallman, Pittsburg, Pa. (See adv. index, end of book)

Horsburgh & Scott, Cleveland, O.

New Process Rawhide Co., Syracuse, N. Y.

NUTTALL, R. D. CO., Fayette, Pittsburg, Pa. (See adv. index, end of book)

PHILADELPHIA GEAR WORKS (Inc.), 7th & Cherry, Phila., Pa. (See adv. index, end of book)

PICROME HIDE CO. ("Quride"), Syracuse, N. Y. (See adv. index, end of book)

Syracuse Rawhide Mfg. Co., Syracuse, N. Y.
 Western Rawhide & Belting Co., Milwaukee, Wis.

***Gems or Precious Stones—Opals a Specialty**

HAMILTON CO., 16 S William, New York

Generating Sets

Northern Electrical Mfg. Co., Madison, Wis.

PHOENIX ELECTRIC COMPANY, Mansfield, O. (See adv. opp. this page)

Portland Co., Portland, Me.
 Sturtevant, B. F. Co., Hyde Park, Mass.

Generators (Electric Lighting)

Akron Electrical Mfg. Co. (Direct Current, Belted or Direct Connected, 1 to 500 R. W.), Akron, O.

ALLIS-CHALMERS CO. (Direct & Alternating), Milwaukee, Wis. (See adv. index & branch offices, end of book)

American Engine Co. (Direct), Bound Brook, N. J.

Bartz, Evans & Wygant, Hornellsville, N. Y.

C. & C. Electric Co. (Direct), 149 B'way, New York

California Electrical Works (Direct), San Francisco, Cal.

Crocker-Wheeler Electric Co. (Direct), Ampere, N. J., & 39 Cortlandt, N. Y.

Eager Electric Co. (Direct Current), Watertown, N. Y.

Elwell-Parker Electric Co., Cleveland, O.

Federal Electric Co. (Direct Current, Belted & Direct Connected, North Girard, Pa.

Fort Wayne Electric Works, Inc. (Direct & Alternating), Fort Wayne, Ind.

GENERAL ELECTRIC CO. (Direct & Alternating), Schenectady, N. Y., & 44 Broad, New York. (See adv. index & branch offices, end of book)

Ideal Electric & Mfg. Co. (Ideal), Mansfield, O.

Jenney Electric Mfg. Co. (Direct & Alternating), Indianapolis, Ind.

Kentucky Electrical Co. (Direct), Owensboro, Ky.

Keystone Electric Co. (Direct), Erie, Pa.

La Roche & Co., F. A. (Direct), 656 Hudson, N. Y.

Maine Electric Co., Portland, Me.

Northern Electrical Mfg. Co. (Direct & Alternating), Madison, Wis.

OTIS ELEVATOR CO., 17 Battery pl., New York. (See adv. index & branch offices, end of book)

PHOENIX ELECTRIC COMPANY (Direct & Alternating), Mansfield, O. (See adv. index, end of book)

Ridgway Dyamo & Engine Co., Ridgway, Pa.

Robbins & Myers Co. (Up to 10-K. W.), Springfield, O.

Roth Bros. & Co., 27 S Clinton, Chicago, Ill.

SPRAGUE ELECTRIC CO. (Direct Current up to 1000 K. W.), 527 W 34th, New York. (See adv. index, end of book)

Sterling Electric Motor Co. (Up to 12 K. W.), Dayton, O.

Triumph Electric Co. (Direct Current), 610 Baymiller, Cincinnati, O.

Wagner Electric Mfg. Co. (Direct & Alternating), St. Louis, Mo.

Warren Electric Mfg. Co. (Alternating), Sandusky, O.

Western Electric Co. (Direct & Alternating), 259 S Clinton, Chicago, Ill. & 57 Bethune, N. Y.

WESTINGHOUSE ELECTRIC & MFG. CO. (Direct & Alternating), Pittsburg, Pa. (See adv. index, end of book)

Generators (Electric Power)

Akron Electrical Mfg. Co. (Direct Current, Belted or Direct Connected, 1 to 500 K. W.), Akron, O.

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index and branch offices, end of book)

American Engine Co., 95 Liberty, N. Y., & Bound Brook, N. J.

Bessemer Gas Engine Co., Grove City, Pa.

Burke Electric Co. (Direct & Alternating), Erie, Pa.

Crocker-Wheeler Electric Co. (Direct), Ampere, N. J., & 39 Cortlandt, N. Y.

Diehl Mfg. Co. (Direct), 561 B'way, New York, & Elizabethport, N. J.

Eager Electric Co. (Direct Current), Watertown, N. Y.

Eddy Electric Mfg. Co. (Direct), Windsor, Conn.

Electric Machinery Co. (Induction Type, Alternating), Minneapolis, Minn.

Electro-Dynamic Co., 5 Nassau, New York

Elwell-Parker Electric Co. (Direct), Cleveland, O.

Federal Electric Co. (Direct Current both Belted & Direct Connected), North Girard, Pa.

Ft. Wayne Electric Works, Ft. Wayne, Ind.

GENERAL ELECTRIC CO. (Direct & Alternating), Schenectady, N. Y., & 44 Broad, New York. (See adv. index & branch offices, end of book)

Ideal Electric & Mfg. Co. (Ideal), Mansfield, O.

Keystone Electric Co. (Direct), Erie, Pa.

La Roche & Co., F. A. (Direct), 656 Hudson, N. Y.

Mechanical Appliance Co. ("Watson" Multi-polar), Milwaukee, Wis.

National Brske & Electric Co. (The "Ceco" Alternating & Direct), Milwaukee, Wis.
Northern Electrical Mfg. Co. (Direct & Alternating), Madison, Wis.

OTIS ELEVATOR CO., 17 Battery pl.
New York. (See adv. index and branch offices, end of book)

PHOENIX ELECTRIC COMPANY (Direct & Alternating), Mansfield, O. (See adv. index, end of book)

Richmond Electric Co., Richmond, Va.
Ridgway Dynamo & Engine Co., Ridgway, Pa.
Robbins & Myers Co. (Up to 10 K. W.), Springfield, O.

Sterling Electric Motor Co. (Small Direct Current, up to 12 K. W.), Dayton, O.

Sturtevant, B. F. Co. (Direct), Hyde Park, Mass.

Triumph Electric Co. (Direct Current), 610 Baymiller, Cincinnati, O.

Warren Electric Mfg. Co. (Alternating), Sandusky, O.

WESTINGHOUSE ELECTRIC & MFG. Co. (Direct & Alternating Current), Pittsburgh, Pa. (See adv. index, end of book)

Generators (Street Railway)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index and branch offices, end of book)

American Engine Co., Bound Brook, N. J.
C. & C. Electric Co., 149 B'way, New York

Crocker-Wheeler Co., Ampere, N. J., & 39 Cortlandt, N. Y.

Elwell-Parker Electric Co., Cleveland, O.

GENERAL ELECTRIC CO., Schenectady, N. Y., & 44 Broad, N. Y. (See adv. index & branch offices, end of book)

Ideal Electric & Mfg. Co. (Ideal), Mansfield, O.

Kester Electric Co., Terre Haute, Ind.

Keystone Electric Co., Erie, Pa.

PHOENIX ELECTRIC COMPANY, Mansfield, O. (See adv. index, end of book)

Ridgway Dynamo & Engine Co., Ridgway, Pa.

Triumph Electric Co., Cincinnati, O.

WESTINGHOUSE ELECTRIC & MFG. Co., Pittsburgh, Pa. (See adv. index, end of book)

*Giants (Hydraulic)

ABENDROTH & ROOT MFG. CO., Newburgh, N. Y. (See adv. index & branch offices, end of book)

*Gibs & Keys

STANDARD GAUGE STEEL CO., Beaver Falls, Pa. (See adv. index, end of book)

Glass (Art)

(See Glass, Leaded; also Glass Stainers)

Glass Benders

California Art Glass Bending & Cutting Works, 120 2d, San Francisco, Cal.

Cincinnati Beveling & Silvering Co., 430 Oliver, Cincinnati, O.

Copeland Glass Co., Denver, Colo.

Donnelly, J. R. Co., 54 Classon av, Brooklyn, N. Y.

Hadley-Dean Glass Co., 11th & Lucas, St. Louis, Mo.

Heckermann, F. W. & Co., 210 Lawrence, Cincinnati, O.

Louisville Ornamental Glass Co., Louisville, Ky.

New Kensington Glass Bending Co. (Plate & Window), Parnassus, Pa.

Ortel Glass Co., 617 Chestnut, St. Louis, Mo.

Pittsburg Plate Glass Co., Main & Executive Offices, Frick bldg, Pittsburgh, Pa.

Penn-American Plate Glass Co., Pittsburgh, Pa.

Popper, Leo. & Sons, 7 Sullivan, New York

Potts Bros., 231 Bowery, New York

SCHULER & MUELLER, c Madison & Canal, Chicago, Ill. (See adv. index, end of book)

Smith, M. A., 65 Chambers, Newark, N. J.

Standard Plate Glass Co., Butler, Pa.

Valley City Glass & Paint Co., Grand Rapids, Mich.

Western Mirror Plate Co., 824 Wade, Cincinnati, O.

*Glass (Bent Wire)

MISSISSIPPI WIRE GLASS CO., 277 B'way, New York. (See adv. below; branch offices, end of book)

Glass Bevelers

Bloom, Alfred Co., 1502 California, Omaha, Neb.

California Art Glass Bending & Cutting Works, 120 2d, San Francisco, Cal.

Chaudron & Peyton, 602 Water, Baltimore, Md.

Cincinnati Beveling & Silvering Co., 430 Oliver, Cincinnati, O.

Cooper, Chas. D., 188 W Houston, N. Y.

Copeland Glass Co., Denver, Colo.

Crane Glass & Mfg. Co., 286 St. Clair, Cleveland, O.

Dayton Art Glass Works, Dayton, O.

Donnelly, J. R. Co., 54 Classon av, Brooklyn, N. Y.

Empire Ornamental Glass Co., 42 Renwick, New York

Evansville Mirror & Beveling Co., Evansville, Ind.

Ford Bros., 234 5th av, Chicago, Ill.

French Mirror & Glass Beveling Co., Allegan, Mich.

Gibbons, Edw., 23 Lawrence, Newark, N. J.

Hadley-Dean Glass Co., 11th c Lucas av, St. Louis, Mo.

Heckerman, F. W. & Co., 210 Lawrence, Cincinnati, O.

Holland & New Co., Des Moines, Ia.

Hooker, H. M. Co., 59 W Randolph, Chicago.

Ingerson & Glaser Co., San Francisco, Cal.

Jones Decorative Glass Co., Concord c Hudson av, Brooklyn, N. Y.

Ortel Glass Works, San Francisco, Cal.

Pioneer Glass Works, 121 New Montgomery, San Francisco, Cal.

Pittsburg Plate Glass Co., Main & Executive Offices, Frick bldg, Pittsburgh, Pa.

Popper, Leo. & Sons, 7 Sullivan, N. Y.

Potts Bros., 116 Walker, N. Y.

Queen City Glass Works, 122 Opera pl, Cincinnati, O.

Raphal, H. & Co., 509 S Main, Los Angeles, Cal.

Riordan, G. C. & Co., 133 E 5th, Cincinnati, O.

SCHULER & MUELLER, c Madison & Canal, Chicago, Ill. (See adv. index, end of book)

Smith, M. A., 65 Chambers, Newark, N. J.

Standard Glass & Paint Co., Des Moines, Ia.

Suess Ornamental Glass Co., 750 Throop, Chicago, Ill.

United Glass Works, 62 8th, San Francisco, Cal.

Von Gerichten Art Glass Co., Columbus, O.

Western Mirror Plate Co., 824 Wade, Cincinnati, O.

Western Sand Blast Mfg. Co., 21st & Marshall boul, Chicago, Ill.

Whither-Coburn Co., San Francisco, Cal.

Glass (Carrara)

Pittsburg Plate Glass Co., Frick bldg, Pittsburgh, Pa.

Glass (Cathedral, Rough Plate & Tile)

Gray & Son, Falls Creek, Pa.

Heldt, Louis & Son, 278 Boerum pl., Brooklyn, N. Y.

Highland Glass Co., Washington, Pa.

Marietta Glass Co., Red Key, Ind.

MISSISSIPPI GLASS CO., 277 B'way, New York. (See adv. below; branch offices, end of book)

Novelty Glass Works, Ottawa, Ill.

Opalescent Glass Works, Kokomo, Ind.

Opalite Tile Co., 331 4th ave., Pittsburgh, Pa.

Streator Cathedral Glass Co., Streator, Ill.

Glass (Chipped)

Chaudron & Peyton, 602 Water, Baltimore, Md.

Empire Ornamental Glass Co., 42 Renwick, New York

French Mirror & Glass Beveling Co., The, Allegan, Mich.

Jamestown Mirror Wks., Jamestown, N. Y.

Jones Decorative Glass Co., Concord c Hudson av, Brooklyn, N. Y.

Niagara Glass Wks., Buffalo, N. Y.

Rawson & Evans, 151 Washington boul, Chicago, Ill., & 458 W B'way, New York

Suess Ornamental Glass Co., 750 Throop, Chicago, Ill.

Western Sand Blast Mfg. Co., 21st & Marshall boul, Chicago, Ill.

YOU DON'T KNOW



POLISHED WIRE GLASS.

When your property will be swept away by fire and the loss you may have to suffer in consequence.

That you are or are not amply covered by insurance is of little account when you stop to consider that a vast portion of your loss may include that which money can never replace. It is gone forever to the ash heap. You don't want to burn out. Be wise. Install Wire Glass set in metal frames and you will then have adopted the best means of protection and in the long run the most economical.

Mississippi Wire Glass Co.

277 BROADWAY, NEW YORK

CHICAGO

ST. LOUIS

Glass (Crystal, Lead & Colored)*RODEFER, T. A., Bellaire, O.** (See adv. index end of book)**Glass Cutters**

(See Glass Stainers)

Glass Cutting Boards

Lufkin Rule Co., Saginaw, Mich.

Glass CylindersAppert Glass Co., 277 B'way, New York
MISSISSIPPI GLASS CO., 277 B'way,
New York. (See adv. on Page 478; branch
offices, end of book)
Fairpont Corporation, New Bedford, Mass.**Glass (Druggists')**

(See Glassware, Chemical & Druggists')

Glass EmbossersCalifornia Art Glass Bending & Cutting Works,
120 2d, San Francisco, Cal.
Dougherty, James, 435 W Broadway, N. Y.
Empire Ornamental Glass Co., 42 Renwick,
New York**FRENCH, SAM'L H. & CO., 4th &**
Callowhill, Phila. (See adv. index, end of
book)Gillinder & Sons (Inc.), 135 Oxford, Phila., Pa.
Ingerson & Glasier Co., San Francisco, Cal.
Jones Decorative Glass Co., Concord & Hudson
av, Brooklyn, N. Y.Louisville Ornamental Glass Co., Louisville,
Ky.Pittsburg Plate Glass Co., Main & Executive
Offices, Frick bldg, Pittsburg, Pa.Potts Bros., 231 Bowery, New York
Rae, G. & Co., 436 W B'way, New York
Rawson & Evans, 151 Washington boul, Chi-
cago, Ill., & 458 W B'way, New YorkRedding, Baird & Co., 83 Franklin, Boston,
Mass.Reith, Wm., 134 N 7th, Phila., Pa.
Smith, H. J. & Sons, 234 S 8th, Phila., Pa.
Schmitz & Hopps, 1323 Market, San Francisco,
Cal.Stevens Art Glass Co., 28 S. St. Clair, Day-
ton, O.Suess Ornamental Glass Co., 750 Throop, Chi-
cago, Ill.Van Horn, Dan'l, Art Glass Works, 537 17th,
Milwaukee, Wis.Van Horne, D. A. & Co., 467 G'wich, N. Y.
& 400 W B'way, N. Y.Western Sand Blast Mfg. Co., 21st & Marshall
boul, Chicago, Ill.**Glass Enamellers**Dougherty, James, 435 W Broadway, N. Y.
FRENCH, SAMUEL H. & CO., 4th &
Callowhill, Philadelphia, Pa. (See adv. in-
dex, end of book)Gernhardt, H. T. & Co., 409 E Fayette, Balti-
more, Md.Jones Decorative Glass Co., Hudson, av & Con-
cord, Brooklyn, N. Y.Louisville Ornamental Glass Co., Louisville,
Ky.Passarge, A. M., 12 De Kalb av, Brooklyn,
N. Y.Rawson & Evans, 151 Washington boul, Chi-
cago, Ill., & 458 W B'way, New YorkStevens Art Glass Co., 28 S. St. Clair, Day-
ton, O.Suess Ornamental Glass Co., 750 Throop, Chi-
cago, Ill.Von Gerichten Art Glass Co., Columbus, O.
Western Sand Blast Mfg. Co., 21st & Marshall
boul, Chicago, Ill.***Glass (Figured)****MISSISSIPPI GLASS CO., 277 B'way,**
New York. (See adv. on Page 478; branch
offices, end of book)***Glass (Fire Retardant)****MISSISSIPPI WIRE GLASS CO., 277**
B'way, New York. (See adv. below, branch
offices, end of book)***Glass Floor Plate Mfrs.****MISSISSIPPI GLASS CO., 277 B'way,**
New York. (See adv. on Page 478; branch
offices, end of book)**Glass for Electrical Use**

Whitall Tatum Co., 410 Race, Philadelphia, Pa.

Glass for Engineering Specialties

(See also Gauge Glass Importers)

Carr-Lowrey Glass Co., Westport, Baltimore,
Md., & 290 B'way, N. Y.Gillinder & Sons (Inc.), 135 Oxford, Phila., Pa.
Whitall, Tatum Co., 410 Race, Philadelphia, Pa.**Glass Globes and Shades**(See Globes, Various Kinds; also Shades, Glass
& Porcelain, etc.)**Glass (Ground)**Cooper, Chas. & Co. (For Polishing), 194 Worth,
New YorkFrench Mirror & Glass Beveling Co., The, Al-
legan, Mich.Rawson & Evans, 151 Washington boul, Chi-
cago, Ill., & 458 W B'way, New York**Glass House Furnace Builders**American Furnace & Machine Co. (Complete
Plants), Publication bldg, Pittsburg, Pa.
American Producers' Gas Furnace Co. (Also
Glass Factories), Salem, N. J.
Cox & Sons, 215 Race, Philadelphia, Pa.
Smythe, S. R. Co., House bldg., Pittsburg, Pa.**Glass (Leaded)**

Alberts, J. B., 307 1st Louisville, Ky.

Almy & Thomas, Corning, N. Y.

Baker, Jas. W., 1836 Champa, Denver, Col.

Bryant Bros., Columbus, Ohio.

Bunce Art Glass Co., Richmond, Va.

California Art Glass Bending & Cutting Works
Sau Francisco, Cal.**CHICAGO MILL WORK SUPPLY CO.,**
22d c Sangamon, Chicago, Ill. (See adv.
index, end of book)Dayton Art Glass Works, Dayton, Ohio
Decorative Art Glass Co., 214 S Highland,
Pittsburg, Pa.**DECORATIVE ARTS CO., 527 5th av,**
New York. (See adv. index, end of book)
Denniger, B. & S. Co., Jackson bldg, Denver,
Col.Dolde Art Glass Co., 18 N Diamond, Pitts-
burg, Pa.Cleveland Window Glass Co., 211 Champlain
av, Cleveland, OhioClinton Glass Co., 259 W 21st, Chicago, Ill.
Copeland Glass Co., Denver, Colo.Denver Ornamental Glass Works, 305 16th, Den-
ver, Col.**FLANAGAN & BIEDENWEG CO., 57**
to 63 Illinois, Chicago, Ill. (See adv. in-
dex, end of book)Ford Bros., Minneapolis, Minn.
FRENCH, SAMUEL H. & CO., 4th &
Callowhill, Phila., Pa. (See adv. index, &
branch offices, end of book)Geissler, R., 56 W 8th, New York
Giannini & Hilgart, 211 E Madison, Chicago, Ill.Gray & Son Glass Co., Falls Creek, Pa.
Hamilton, H. E. & Co., Indianapolis Ind.Henderson Bros., 342 E 38th, New York
Highland Glass Co., Washington, Pa.Holland & New Co., Des Moines, Ia.
Hooker, H. M. Co., 59 W Randolph, Chicago,
Ill.Hooper-Dombrink Art Glass Co., Oakland, Cal.
Hosey, Patrick, 1649 17th, Deuver, Col.Jackson Glass Works, Jackson, Mich.
Jones, Thos. Decorative Co., Concord c.
Hudson av., Brooklyn, N. Y.Morgan Co. (Art), Factory & General Offices,
Oshkosh, Wis.O'Hearn, P. H., 1413 18th, Denver, Col.
Payne, Geo. H., 40 Park av, Paterson, N. J.Pittsburg Art Glass & Mosaic Decorative Co.,
112 Isabella, Allegheny, Pa.Rae, G. & Co., 436 W. Broadway, New York
Rawson & Evans, 151 Washington boul, Chi-
cago, Ill., & 458 W B'way, New YorkRedding, Baird & Co., 83 Franklin, Boston,
Mass.Righter & Kolb, 156 5th av, New York
Riordan, G. C. & Co., 133 E 5th, Cin., O.

BETWEEN THE TWO



An architect, a builder or a property owner has his glass problem solved, not for the present only, but for all time to come.

IN WIRE GLASS he finds a product of unequalled Fire Retarding Efficiency that prevents the entrance or egress of draft and flame and the perils attending glass breakage, while in Mississippi Figured Glass he has clearly defined, forceful and decorative patterns of great brilliance and diffusive power, especially suitable for interior glazing of all classes of buildings.

Samples and printed matter on request.

**MISSISSIPPI WIRE GLASS CO.,****277 Broadway, New York.****CHICAGO.****ST. LOUIS.**

Rockford Art Glass Works, Rockford Ill.
Schnitz & Hopps, 1323 Market, San Francisco, Cal.

SCHULER & MUELLER, c Madison
& Canal, Chicago, Ill. (See adv. index, end of book)

Sharpe Bros., 3 Court, Newark, N. J.
Splers, Richard N., 859 6th av., New York
Stevens Art Glass Co., 28 S. St. Clair, Dayton, O.
Stoltzenberg Co., 51 Barclay, N. Y.
Suess Ornamental Glass Co., 750 Throop, Chicago, Ill.

Summers, Charles, 239 Nassau, Brooklyn, N. Y.
Von Gerichten Art Glass Co., Columbus, O.
Wallis, A. H., 2000 & 2002 Locust, St. Louis, Mo.

Western Sand Blast Mfg. Co., 21st & Marshall
boul, Chicago, Ill.
Wood Glass Co., 226 No. Sallna, Syracuse, N. Y.
Young, C. H. Co., Indianapolis, Ind.

*Glass (Maze, for Diffusion of Light)

MISSISSIPPI GLASS CO., 277 B'way,
New York. (See adv. on Page 478; branch offices, end of book)

Glass (Mosaic Work)

Armstrong, Maitland & Co., 61 Wash'n sq. S. N. Y.

Brown, Hubbell & Puddicombe Co., New Haven, Conn.
Bryant Bros., Columbus, Ohio.
Church Glass & Decorating Co., 28 W 30th, N. Y.

Colgate Art Glass Co., 8 Gansevoort, New York
Crowninshield, Frederic, 42 W. 18th, New York
Dayton Art Glass Wks., Dayton, Ohio.
Decorative Stained Glass Co., 46 Wash'n sq. S. New York

Dougherty, Jas., 435 W B'way, New York
Flagg L. G. & Co., Sudbury bldg., Boston, Mass.

FLANAGAN & BIEDENWEG CO., 57
to 63 Illinois, Chicago, Ill. (See adv. index, end of book)

Ford Bros., Minneapolis, Minn.
Ford & Brooks, 70 Washington, Boston, Mass.

Freeman, Alfred H., 41 University pl, New York
Geissler, R., 56 W 8th, New York
Glannine & Hilgart, 211 E Madison, Chicago, Ill.
Heinigke & Bowen, 24 E 13th, New York
Henderson Bros., 343 W. 37th, New York
Herter Bros., 489 5th av, New York
Kelley & Co., 38 Chardon, Boston, Mass.
Kinsella Glass Co., 22d & Johnson, Chicago, Ill.

Lamb, J. & R. (Inc.), 25 6th av, New York
Louisville Ornamental Glass Co., Louisville, Ky.
McCully & Miles Co., 76 Wabash av, Chicago, Ill.

Macy, R. H. & Co., B'way & 34th, New York
Morgan, Jno. & Sons, 17 Union av, Brooklyn, N. Y., & 32 E 9th, N. Y.

O'Halloran's, Thos. Sons, 127 Van Buren, New York, N. J.
Passarge, A. M., 12 De Kalb av, Brooklyn, N. Y.

Payne, Geo. H., 40 Park av, Paterson, N. J.
Petgen Glass Co., 5th & Hamilton avs, Pittsburgh, Pa.

Rae, G. & Co., 436 W B'way, New York
Redding, Balrd & Co., 83 Franklin, Boston, Mass.

Righter & Kolb, 156 5th av, New York
Riordan, G. C. & Co., 133 E. 35th, Cincinnati, O.

Splers, Richard N., 859 6th av, New York
Stevens Art Glass Co., 28 S St Clair, Dayton, O.
Stoltzenberg Co., 51 Barclay, New York.
Summers & Lamb, c Jay & Johnson, Brooklyn, N. Y.

Tiffany Studios, Madison av & 45th, New York
Tyroese Art Glass Co., 25 W B'way, New York
Valley City Glass & Paint Co., Grand Rapids, Mich.

Von Gerichten Art Glass Co., Columbus, O.
Wallis, A. H., 2000 & 2002 Locust, St. Louis, Mo.
Woodman, Geo. F., 1296 Euclid av, Cleveland, O.

Glass (Novus Sanitary Structural)

Penn-American Plate Glass Co. (For Floors, Walls, etc.), Westinghouse bldg., Pittsburgh, Pa.

Glass Opal Blanks

Popper, Leo & Sons, 15 Sullivan, New York
RODEFER, T. A. (For Decorators),
Bellaire, O. (See adv. index, end of book)

Glass (Opalescent)

Gillinder & Sons (Inc.), 135 Oxford, Phila., Pa.
Heidt, Louis & Sons, Boerum & White, Brooklyn, N. Y.

Opalescent Glass Works, Kokomo, Ind.
Peltier Bros. Glass Co., Ottawa, Ill.
Popper, Leo & Sons, 15 Sullivan, N. Y.
Rawson & Evans, 151 Washington boul, Chicago, Ill.

RODEFER, T. A., Bellaire, O. (See
adv. index, end of book)

*Glass (Ornamental)

FLANAGAN & BIEDENWEG CO.,
57 to 63 Illinois, Chicago, Ill. (See adv. index, end of book)

SCHULER & MUELLER, c Madison
& Canal, Chicago, Ill. (See adv. index, end of book)

*Glass Pipe Mfrs.

MISSISSIPPI GLASS CO., 277 B'way,
New York. (See adv. on Page 478; branch offices, end of book)

Glass (Plate Prism Mfrs.)

Pressed Prism Plate Glass Co. ("Imperial"),
17 Battery pl, New York, & Morgantown, W. Va.

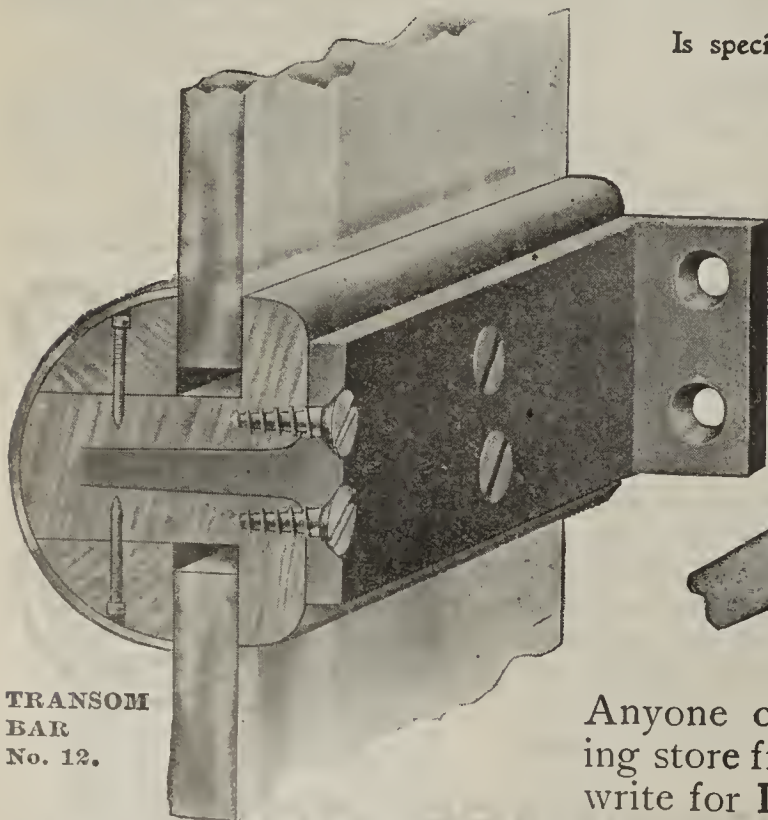
Glass (Plate & Window, Wholesale & Retail)

ALABAMA.

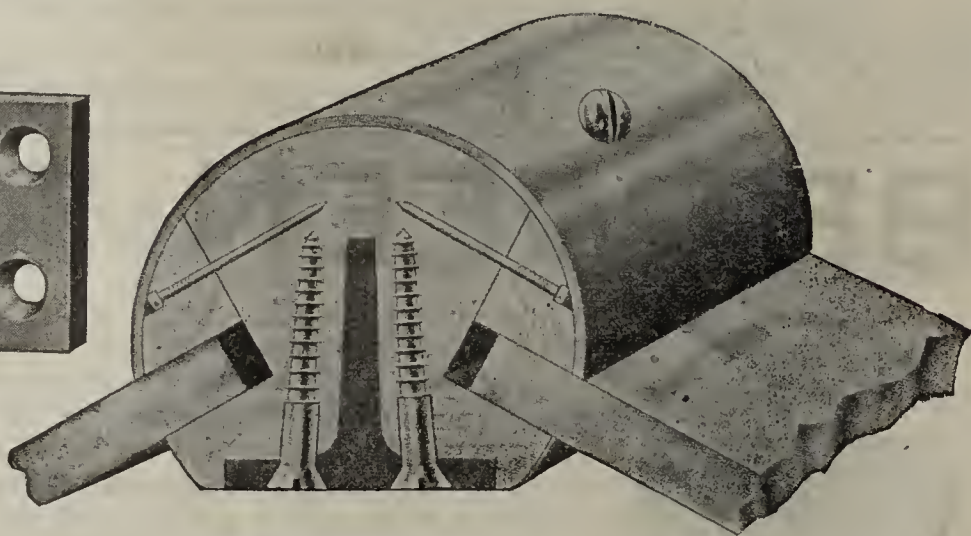
BIRMINGHAM—Birmingham Paint & Glass Co.
MOBILE—McDermott, M. A. & J. P.

Coulson Patent Store Front Construction

Is specified by the leading architects and used in many of the best buildings in the country.



**TRANSOM
BAR
No. 12.**



CORNER POST No. 13.

Anyone contemplating the erection of a building containing store fronts, or the remodeling of old store fronts, should write for Descriptive Catalogue D600.

J. W. COULSON & CO., SOLE OWNERS and **COLUMBUS, OHIO.**
MANUFACTURERS,

U. S. Patent, February 13, 1900. Canada Patent, March 19, 1900.
U. S. Patent, November 19, 1901. U. S. Patent, April 15, 1902.
OTHER PATENTS PENDING.

MAIN OFFICE—98 N. Third Street, Columbus, Ohio.
BRANCH OFFICE—1123 Broadway, New York City.

ARKANSAS.

LITTLE ROCK—Abeles, Chas. T. & Co.

CALIFORNIA.

LOS ANGELES—Fuller, W. P. & Co., 142 N Los Angeles

Raphael, H. C., 509 S Main
 OAKLAND—Fuller, W. P. & Co. (Inc.)
 SACRAMENTO—Fuller, W. P. & Co. (Inc.)
 SAN DIEGO—Fuller, W. P. & Co. (Inc.)
 SAN FRANCISCO—Butcher, L. H. Co., 61 Te-

hama
 Fuller, W. P. & Co. (Inc.), Beal & Mission
 Hessler, Chas. & Son
 Lewis, J. & Co., 123 Fell
 Pacific Window Glass Co., 1818½ Post
 Pioneer Glass Works, 245 Oak
 Whittier, Coburn Co., Market & Sanson

COLORADO.

DENVER—Bingham, H. W. & Co., Larimer
 Copeland Glass Co., 1237 8th nr 3d
 Denver Plate Glass Co., 1522 19th
 Hallack Paint, Oil & Glass Co., 1741 Arapa-

hoe
 Halleck & Howard Lumber Co., Larimer & hoe
 James, B. L. Mercantile & Mfg Co., 1517 Arapahoe
 McPhee & McGinnity Co., 18th e Wazee
 Sayre-Newton Lumber Co., 23d & Blake
 Western Glass Mfg. Co., S 8th e W Bayaud

CONNECTICUT.

HARTFORD—Andrews & Peck Co., 88 Market
 Nims, Whitney Co., 1170 Main
 Talcott, C. H. & Co., 273 Asylum
 NEW BRITAIN—Rackliffe Bros. Co., 302 Park
 Rogers, D. M. & Co., 9 Court
 NEW HAVEN—Brodnar, K., 103 Congress av
 Morgan & Humiston Co., 30 Prout
 TORRINGTON—Hotchkiss Bros. Co.

DELAWARE.

WILMINGTON—Bradford, James Co., 6 E 3d
 Christiana Window Glass Co.

DISTRICT OF COLUMBIA

WASHINGTON—Barber & Ross, 11th e G, N. W.

Becker, Chas. & Co., 1239 Wisconsin av
 Brown, R. M., 1252 7th
 Muth, Geo. F. & Co., 418 7th, N. W.
 Plitt, Geo., 1727 7th, N. W.
 Reilly, Hugh, 1334 New York av, N. W.
 Smith, Thos. W., 1st e Ind. av, N. W.
 Warren & Dyer, 627 F, N. W.

GEORGIA.

ATLANTA—Georgia Paint & Glass Co., 40 Peachtree
 Pittsburg Plate Glass Co. (Mfrs.), 31 S Pryor
 SAVANNAH—Butler, J. G., 20 Congress
 Hanley, Andw. Co., 127 Whitaker

ILLINOIS.

CHICAGO—Cole, Hy. A., 324 Dearborn
 Hooker, H. M. Co., 59 W Randolph
 Innes-Weld Glass Co., 48 E Van Buren
 Kinsella Glass Co., 22d & Johnson
 Morgan Sash & Door Co. (Plate), West 22d & Union
 Pittsburg Plate Glass Co. (Mfrs.), 442 Wabash av.
 Rawson & Evans, 151 Washington boul
 Rice, James H. Co., Michigan, St. Clair & Illinois sts.
 Sheldon-Foster Glass Co., 212 Randolph
 Siegel, Abraham & Co., 28 Blue Island av
 Sprague, Smith Co., 167 E Randolph
 Tyler & Hippach (Inc.), N Clinton & Kinzie
 PEORIA—Wahlfred Mfg. Co., 1101 S Wash'n
 QUINCY—Oenning Glass & Book Co. Young Bros.
 ROCK ISLAND—Volk, John & Co.
 SPRINGFIELD—Power, Chas. A.

INDIANA.

EVANSVILLE—Evansville Mirror & Beveling Co.
 Evansville Paint & Varnish Co.
 FORT WAYNE—Dreier & Bro., 10 Calhoun
 Schlatter, C. C. & Co., 40 E Columbia
 INDIANAPOLIS—Aldag Paint & Varnish Co., 426 E Wash'n

Builders' Supply Co., 342 E Wash'n
 Indianapolis Paint & Color Co., 240 Mass av
 Young, C. H., 708 E Mich.
 LAFAYETTE—Lafayette Lbr. & Mfg. Co.
 Taylor, Henry Lbr. Co.
 TERRE HAUTE—Adamson, Wm. W.
 Krietenstein, Carl

IOWA.

CEDAR RAPIDS—Williams & Hunting Co.
 DAVENPORT—McClelland, T. W. Co.
 Pittsburg Plate Glass Co.
 Roberts, U. N. Co.
 DES MOINES—Buck Bros. Co., 613 E Grand av
 Carr & Adams Co., 305 S 9th
 Holland & New Co., 610 Locust
 DUBUQUE—Carr-Ryder & Adams Co.
 LYONS—Disbrow, M. A. & Co.
 MUSCATINE—Roach & Musser Sash & Door Co.

KANSAS.

EMPORIA—Emporia Lbr. & Coal Co.
 HUTCHINSON—Hutchinson, L. & P. Mm Co.
 TOPEKA—Whiting, A. B. Paint & Glass Co.
 WICHITA—Young Bros. 521 Quincey

KENTUCKY.

LOUISVILLE—Hughes, E. L. Co., 215 E Main
 Hughes, W. J. & Sons Co., 14th e Maple
 Louisville Silvering & Beveling Co., 1420 Washington
 Peaslee-Gaulbert Co., Window Gl. Dept., 417 W Main

LOUISIANA.

NEW ORLEANS—Augustin, M. & H., 310 Bar-rome
 Louisiana Glass & Mirror Works, 309 Lafayette
 McWilliams, R. (Ltd.), 342 Camp

MAINE.

PORTLAND—King & Dexter Co.

National Store Front

**The Most Brilliant, Beautiful
and Graceful Front
in the World.**

Minimum Light Space taken up. *Maximum of Strength.* No Unsightly Screws on Face of Metal. The same Contour and Finish inside and out. *All Glass sets from Outside.* *Low rate of Insurance.*

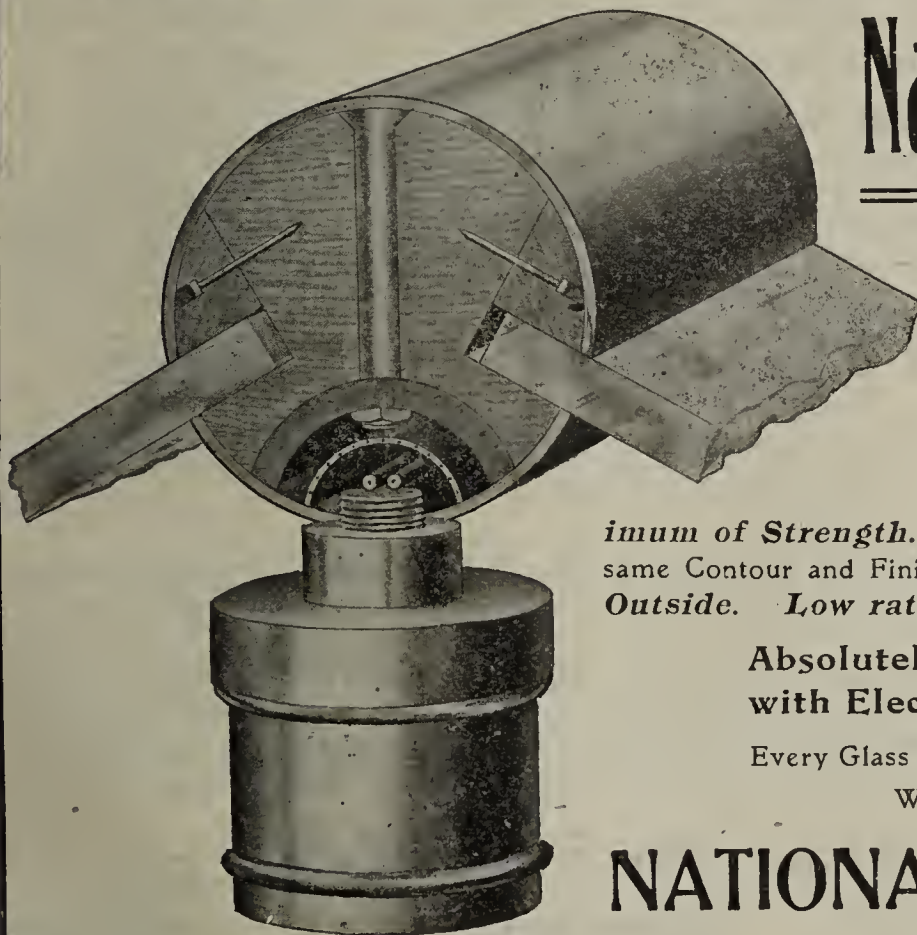
**Absolutely Dust Proof Construction
with Electric Light Fixture Combined**

Every Glass Jobber in the United States handles it.

Write for Catalog and Prices.

NATIONAL STORE FRONT CO.

PITTSBURGH, PA.



Patented 1907

MARYLAND.

BALTIMORE—Baker Bros. & Co., 102 Hopkins
Baker Glass Co., 118 S Eutaw Pl.
Baltimore Paint & Glass Co., 2 N Liberty
Kaufman, E. L. & Co., Liberty & Fayette
Pittsburg Plate Glass Co. (Mfrs.), 221 W Pratt
Seim, Henry & Co., Howard & Fayette
Swindell Bros., cor Bayard & Russell
United States Glass Co., 110 Hopkins pl

MASSACHUSETTS.

BOSTON—Boston Plate & Window Glass Co., 287 A
Brockway-Smith Corp., 18 Washington N
Pittsburg Plate Glass Co. (Mfrs.), 41 Sudbury
WORCESTER—Marble J. Russel & Co., 440 Main

MICHIGAN.

ALLEGAN—French Mirror & Glass Beveling Co., The, Allegan, Mich.
DETROIT—American Paint & Glass Co., 38 Cadillac sq
Boydell Bros., White Lead & Color Co., 40 Champlain
Brede & Schroeter, 152 Gratiot av
Central Paint & Glass Co., 36 Cadillac sq
Detroit Mirror Works, Waterman av & L. S. & M. S. Ry.
Fletcher Hardware Co. (Window), 65 W Woodbridge
Frohlich, E. W. Glass Co., 15th & Warren
Michigan Ornamental Glass Co., 21st & Standish
Pittsburg Plate Glass Co. (Mfrs.), 53 E Larned
Schroeder Print & Glass Co., 44 Cadillac sq
GRAND RAPIDS—French, Walter Glass Co., 20 N Ottawa
Heystek & Canfield Co., 75 Monroe
Valley City Glass & Paint Co.
JACKSON—McLean, Frank & Co.
SAGINAW—Saginaw Plate Glass Co.

MINNESOTA.

DULUTH—Paine & Nixon Co.
St. Germain Bros., 110 1st av W
Thomson & Dunlop, 226 W Michigan
MINNEAPOLIS—Forman, Ford & Co., 116 Washington av, S
Janney, Semple, Hill & Co., 30 S 2d
Pittsburg Plate Glass Co. (Mfrs.), 500 S 3d
ST. PAUL—Noyes Bros. & Cutler, 6th & Sibley
Pittsburg Plate Glass Co., 349 Minnesota
Taylor, G. D., 3d & Sibley
Whitehead, Wm. G., 27 E 8th

MISSOURI.

KANSAS CITY—Campbell Glass & Paint Co., 1228 Main
Faxon & Gallagher, B'way & 8th
Pittsburg Plate Glass Co. (Mfrs.), 5th & Wyandotte

ST. JOSEPH—Pimbley Paint & Glass Co., 215 S 6th
ST. LOUIS—Condle-Neale Glass Co., Pine & 19th
Drey & Kahn Glass Co., 11th c St. Charles
Glenny Bros. Glass Co., 114 S 3d
Hadley-Dean Glass Co., 11th c Lucas av
Hafner Mfg. Co., Main & Dock
Kahn, M. Glass Co., 12th c Walnut
Mississippi Glass Co., Main c Angelica
Pittsburg Plate Glass Co. (Mfrs.), 7th & Market
Pockels Drug, Glass & Paint Co., Gravois av c Jefferson av
Weigelt Glass & Mirror Mfg. Co., 615 S 6th

MONTANA.

BUTTE—Butte Art Stained Glass Works
HELENA—Parchen Drug Co., 1 S Main

NEBRASKA.

LINCOLN—Western Glass & Paint Co., 303 S
OMAHA—Midland Glass & Paint Co., 12th
National Oil & Paint Co., 1015 Jones
Richardson Drug Co., 902 Jackson

NEW JERSEY.

NEWARK—Cort Hardware Co., 159 S Orange
Hassinger, E. P., 13 Springfield
Hockenjos, J. J. Co., 829 Broad
Van Horne, D. A. & Co., 317 Mt. Pleasant

NEW YORK.

ALBANY—Bradstreet, Wm. H., 165 S Pearl
Cameron, G. V. & F. W., 284 Central av
Ponda, D. H. Drug Co., 14 Green
Kurtz, Jacob, 334 Central av
Proctor, W. E., 9 State
Wing, Robt. B. & Son, 62 Quay
BINGHAMTON—Binghamton Glass Co.
Lawrence Paint Co.
Sanders, H. H., 7 Court
BROOKLYN—(See N. Y. City, Borough of Brooklyn)
BUFFALO—Becker Glass & Paint Co., 372 Pearl
Buffalo Glass Co., 96 Seneca
Frizche & Kleason, 42 Eagle
National Glass Co., 523 Main
Post's, John C. Sons, 52 S Division
Wright, A. B. & Co., 230 Washington
ELMIRA—Booth, Irving D.
THACA—Treman, King & Co.
JAMESTOWN—Bush & Freeman, 36 Main

NEW YORK CITY.
Borough of Brooklyn

BROOKLYN—Brooklyn Glass Works, 112 Front
Donnelly, J. R. Co., 54 Clason av
Friedlander, Jos. B., 182 Fulton
Lazansky, Emil, 334 Myrtle av
Moll, M. N., 317 Atlantic av
Pittsburg Plate Glass Co., 635 Fulton
Sutherland, Isaac P., 363 Fulton

Boroughs of Manhattan & Bronx

NEW YORK—Bache, Semon & Co., West & Bartelstone Bros., 4179 3d av Hubert
Bartelstone, Harris & Son, 56 Cooper sq. W
Bendit, Drey & Co., 188 Franklin
Coble, Robt., Webster av & 179th
COULSON, J. W. & CO., 1123 B'way
(See adv. on Page 476)
Crane Glass & Mfg. Co., 341 Hudson
Debeck Plate Glass Co. (Wholesale), 401
Dunham, Thos. C., 68 Murray East 23d
Elias, Joseph & Co., 220 W 14th
Edmonds, Thos. C. & Co., 1826 Park av
Gilbert & Sturrock, 321 W 42d
Goldman, Philip, 98 Division
Goldstein, Louis, 8 Chrystie
Griffin, Benjamin, 40 Vestry
Harris, L. & Son, 106 Liberty
Heroy & Marrenner, 62 Vandam
Holbrook Bros., 85 Beekman
Hutkoff, Nathan & Co., 38 Hubert
Kahn, Jacques, 533 W 37th
Jouvaud, Lucien, 415 B'way
Lewis, Isaac & Sons, 1915 Park av
May, Herman G., 19 Whitehall
Metropolitan Mirror Works, 206 Canal
Morris, Theo. W. & Co., 440 Canal
Penn-American Plate Glass Co., 1133 B'way
Pittsburg Plate Glass Co. (Mfrs.), Hudson & Vandam

Popper, Leo & Sons, 7 Sullivan
Rawson & Evans, 458 W B'way
Rubin, Jacob, 11 James
Rubin, Morris S., 206 Canal
Schaefer Bros., 461 W B'way
Schottland, Benjamin, 49 Crosby
Shuldiner, David Glass Co., 325 E 64th
Sutphen & Myer, 11 Desbrosses
Thorpe, Jno., 260 W B'way
Vanhorne, D. A. & Co., 467 G'wich
Von Bühren, George, 11 Baxter
Weber, C. S. & Co., 10 Desbrosses
Wissmach, Paul, 9 Jones

(END OF NEW YORK CITY)

ROCHESTER—Barnard, Porter & Viall, 15 N Water
Becker Glass & Paint Co., Wilder bldg
Clark Paint, Oil & Hardware Co., 131 State
Haskius & Co., 365 Main E
Ocorr & Rugg Co., N Union c N. Y. C. R. R.
Versprella, Harry, 52 Division
SYRACUSE—Brown, Clinton C., 205 E Jeff'n.
Burhans & Black Co., 136 N Salina
Wood, Clarence W., 238 N Salina
Wood Glass Co., 113 James
TROY—Dauchy, Chas. H. Co., 279 River
Thompson, John L. & Sons Co., 163 River

OHIO.

CINCINNATI—Barron, Boyle Co., 230 E 5th
Glenny, Wm. Glass Co., 49 Race
Kolbe, John Co., 229 W 5th
Peale, W. C. & Bro., 904 Central av
Pittsburg Plate Glass Co., B'way & Court
Washburn, Ira D. Co., 1008 Central av
CLEVELAND—Cleveland Window Glass Co., 211 Champlain
Crane Glass & Mfg. Co., 212 St. Clair, N. E.
Diamond Glass Co., 233 Vladuet

MISSISSIPPI FIGURED GLASS.

MAZE.

**ORNAMENTAL AND HARMONIOUSLY
EFFECTIVE.**

Produced in various patterns possessing much brilliance and expression and free from the objections inherent to chipped, ground or enameled glass.

Especially suitable for interior and exterior glazing of all classes of buildings, steam and electric passenger cars, ferry boats, yachts, and a variety of special uses where a maximum diffusion of light, together with an exclusion of vision, to insure privacy, are demanded.

MISSISSIPPI GLASS CO.,

277 Broadway, New York.

CHICAGO.

ST. LOUIS.

LUXFER PRISMS

NO BUILDING CAN BE COMPLETE WITHOUT THEM.

FOR STORE FRONTS, OFFICE BUILDINGS, FACTORY AND WAREHOUSES.
THEY THROW DAYLIGHT INTO DARK ROOMS.



AMERICAN LUXFER PRISM COMPANY,

NEW YORK

CHICAGO

BOSTON

CLEVELAND

KANSAS CITY

CINCINNATI

ST. PAUL

PHILADELPHIA

SAN FRANCISCO

INDIANAPOLIS

MILWAUKEE

Manufacturers' Glass Co., Williamson bldg
Pittsburg Plate Glass Co. (Mfrs.), 1285 W
Third
Saunders, J. A. Co., 2106 Detroit, Lakew'd
Standard Sash & Door Co., 5108 Euclid av
Teachout, A. Co., 31 Prospect av
COLUMBUS—Columbus Plate & Window Glass
Co., 69 E Long
COULSON, J. W. & Co., 98 N 3d.
(See adv. on Page 476)
Federal Glass Co., Innis & Parsons avs
Jones, W. R. Glass Co., United Nat. Bank
bldg
Shoedinger, Fearn & Co., 106 N High
Von Gerichten Art Glass Co., Columbus, O.
DAYTON—Irvine Paint & Glass Co.
Jewell & Vinson, 433 E 5th
HILLSBORO—Enterprise Planing Mill Co.
(Wholesale, etc.)
TOLEDO—Toledo Plate & Window Glass Co.,
Elm, Utica & George
YOUNGSTOWN—Youngstown Glass & Paint
Co.

OREGON.

PORTLAND—Beach, F. E. & Co., 135 1st
Fisher, Thorsen & Co., 162 Front
Fuller, W. P. & Co. (Inc.)
Illinois-Pacific Glass Co., 109 2d
Rasmussen & Co., 229 Taylor

PENNSYLVANIA.

ALLEGHENY—Conroy, Prugh & Co., 1430
Western av
Daum & Helm, 623 Ohio, E.
ERIE—Erie Window Glass Co.
KANE—Kane Window Glass Co.
Penna. Window Glass Co.
PHILADELPHIA—Bennett, G. S. & Co., 114
N 9th
Evans, Wm. & Sons, 56 N Front
FRENCH, SAML. H. & CO., 4th &
Callowhill. (See adv. index, end of book)
Hires Turner Glass Co., 626 Arch
Kane Plate Glass Co., Penna. bldg
Lucas, John & Co., 322 Race
Nice, Eugene E., 272 S 2d
Oser, S. & Son, 420 S 2d
Pittsburg Plate Glass Co. (Mfrs.), 11th
Shoemaker, Benj. H., 205 N 4th & Arch
Thomas Glass & Mirror Works, 406 N 12th
PITTSBURG—Bindley Hardware Co., Amberson
av
Cunningham, D. O. Glass Co., 22d c Jane
De Noon Bros., Paint & Glass Co., 930
Penn av
Kim, Geo. A. & Co., c Wood & 1st av
McCully, Wm. & Co., Conestoga bldg
Pennsylvania Door & Sash Co., 900 2d av
Wightman, Thos. Glass Co., 232 2d av
RIDGWAY—Hyde-Murphy Co.
SCRANTON—Washburn, Williams & Co., 119
Meran
WILKES-BARRE—Phelps, Lewis & Bennett Co.

RHODE ISLAND.

PROVIDENCE—Johnson, Oliver & Co., 5 Ex-
change
Rosenblatt, Henry, 91 Washington
Starkweather & Williams Co., 47 Exchange
pl

SOUTH CAROLINA.

CHARLESTON—Bird, W. M. & Co.

TENNESSEE.

MEMPHIS—Cole Mfg. Co., 27 Hernando
True-Tagg Paint Co., 442 3d
NASHVILLE—Beasley & Sons, 303 Church
Riddle Co., 324 Broad
Warren Bros. Co., 200 N College

TEXAS.

DALLAS—Hamilton Paint & Glass Co., 317 Elm
Shields, K. & Co., 245 Elm
EL PASO—Tuttle Paint and Glass Co.
GALVESTON—Baulard, V. L. & Co.
Smith, J. F. & Bro., 2315 Strand

UTAH.

OGDEN—Ogden Paint, Oil & Glass Co.
SALT LAKE CITY—Culmer Paint & Glass Co.
Ebert, Geo. W. & Co.

VIRGINIA.

NORFOLK—Clark, Frank T. Co. (Ltd.)
RICHMOND—Binswanger & Co. (Inc.), 525 E.
Byrd

WASHINGTON.

SEATTLE—Baker & Richards Co., 108 1st av S
Fuller, W. P. & Co. (Inc.), 2d av, S. c Jack-
son
Nelle & Engelbrecht, 82 W. Columbia
SPOKANE—Fuller, W. P. & Co. (Inc.)
TACOMA—Fuller, W. P. & Co. (Inc.)

WEST VIRGINIA.

WHEELING—Chapman, W. H. & Sons

WISCONSIN.

APPLETON—Miller Lumber Co.
MILWAUKEE—Curtis & Yale Co., 296 Reed
Dorestan, Enno & Son Co., 297 3d
Hecht & Zummach, 281 W Water
Patek Bros., 319 E Water
Patton, Jas. E. Co., 494 Market
Yahr & Lange Drug Co., 486 Market
OSHKOSH—Morgan Co. (For complete list of
offices see colored pages, end of book)
RACINE—Driver, Thos. & Sons Mfg. Co.
Weber-Bahnmann Co.

Glass (Polished Plate, Mfrs.)

Allegheny Plate Glass Co., Hites, Pa., & Park
bldg, Pittsburg, Pa.
Columbia Plate Glass Co., Blairsville, Pa.
Ford, Edw., Plate Glass Co., Rossford, O.
Gray & Son, Falls Creek, Pa.
Standard Plate Glass Co., Butler, Pa.
Heidenkamp Mirror Co., Springdale, Pa.
Kittanning Plate Glass Co., Kittanning, Pa.

Penn-American Plate Glass Co., Westinghouse
bldg, Pittsburg, Pa., & Alexandria, Ind.
Pittsburg Plate Glass Co., main and executive
Offices, Frick bldg, Pittsburg, Pa.
Saginaw Plate Glass Co., Saginaw, Mich.
St. Louis Plate Glass Co., Diamond Bank bldg,
Pittsburg, Pa.; works, Valley Park, Mo.
Standard Plate Glass Co., Bntler, Pa.

Glass (Polished Wire)

MISSISSIPPI WIRE GLASS CO., 277
B'way, New York. (See adv. preceding page;
branch offices, end of book)

Glass (Pressed Light, Mfrs.)

Cambridge Glass Co., Cambridge, O.
Canton Glass Co., Marion, Ind.
National Glass Co., 806 Penn av, Pittsburg, Pa.
RODEFER, T. A., Bellaire, O. (See
adv. index, end of book)

Glass (Prismatic Mfrs.)

AMERICAN BAR LOCK CO. ("Bar
Lock" 3 Point Prism Lights), 26th & Penna
av, Phila., Pa. (See adv. index, end of book)
AMERICAN LUXFER PRISM CO.,
General Office & Factory, Heyworth bldg,
Chicago, Ill. (See adv. above; branch of-
fices, end of book)
AMERICAN THREE-WAY PRISM CO.
(Three-Way Prisms), 134 N 10th, Phila., Pa.
(See adv. index, end of book)
California Art Glass Bending & Cutting Works,
San Francisco, Cal.
CHICAGO SIDEWALK LIGHT CO.,
101 Washington, Chicago, Ill. (See adv. In-
dex, end of book)
Cleveland Window Glass Co., 211 Champlain,
Cleveland, O.
Continuous Glass Press Co., Penna. bldg, Phila.,
Pa.
COULSON, J. W. & CO. (Wholesale
& Retail Dealers), 98 N 3d, Columbus, O.
(See adv. on Page 476; branch offices, end of
book)
Daylight Glass Mfg. Co., 608 Chestnut, Phila-
delphia, Pa.
NATIONAL STORE FRONT CO., 208
1st av, Pittsburg, Pa. (See adv. on Page
477)
Maltby, Geo. K. & Co., Flatiron bldg, New
York
NEW YORK PRISM CO., 473 W
B'way, New York. (See adv. below)
RODEFER, T. A. (For Architectu-
ral Iron Work), Bellaire, O. (See adv. In-
dex, end of book)
Solar Prism Co., 7003 Quincy, S. E., Cleveland,
O.

Glass (Rough, Ribbed & Figured Rolled Plate Mfrs.)

Beatty, Brady & Co., Washington, Pa.
Dannenhoffer, John Glass Works, 389 Harman,
Brooklyn, N. Y.
Marietta Glass Co., Gas City, Ind.

PRISMS.

SASH, CANOPY, SKYLIGHT, SIDEWALK.
NEW YORK PRISM CO., 473 WEST BROADWAY,
NEW YORK.

MISSISSIPPI GLASS CO., 277 B'way.
New York. (See adv. on Page 478; branch offices, end of book)
Opalescent Glass Works, Kokomo, Ind.
Peltier Bros Glass Co., Ottawa, Ill.

***Glass (Rough & Ribbed, for Skylights)**

MISSISSIPPI GLASS CO., 277 B'way,
New York. (See adv. on Page 478; branch offices, end of book)

Glass (Sand Blast)

Jones Decorative Glass Co., Hudson av & Concord, Brooklyn, N. Y.
Rawson & Evans, 151 Washington boul, Chicago, Ill., & 458 W B'way, New York
Suess Ornamental Glass Co., 750 Throop, Chicago, Ill.
Western Sand Blast Mfg. Co., 21st & Marshall boul, Chicago, Ill.

Glass Setting in Lead or Metal

(See Also Glass Stainers.)

AMOS, CHARLES & CO., 94 W
Larned, Detroit, Mich. (See adv. index, end of book)

FLANAGAN & BIEDENWEG CO., 57
Illinois, Chicago, Ill. (See adv. in next column)

Henderson Bros., 342 E 38th, New York
Louisville Ornamental Glass Co., Louisville, Ky.
Rawson & Evans, 151 Washington boul, Chicago, Ill., & 458 W B'way, New York
Robertson, Jas. W. Mfg. Co. (Lead), 14 S Hanover, Baltimore, Md.

SCHULER & MUELLER, c Madison
& Canal, Chicago, Ill. (See adv. below)
Stevens Art Glass Co., 28 S. St. Clair, Dayton, O.

Western Sand Blast Mfg. Co., 21st & Marshall boul, Chicago, Ill.

Glass (Skylight, Mfrs.)

Canton Glass Co., Marlon, Ind.
Continuous Glass Press Co., Penna. bldg, Phila., Pa.

National Glass Co., Bessemer bldg, Pittsburg, Pa.
MISSISSIPPI GLASS CO., 277 B'way,
New York. (See adv. on Page 478; branch offices, end of book)

RODEFER, T. A. (For Architectural Iron Work), Bellaire, O. (See adv. index, end of book)

***Glass Specialties (Blown & Pressed)**

RODEFER, T. A., Bellaire, O. (See adv. index, end of book)

Glass Stainers

(See also Memorial Windows.)

CALIFORNIA.

LOS ANGELES—Bruns, Edw., 823 Santee
Fuller, W. P. & Co., 140 N. Los Angeles
Los Angeles Art Glass Co., 643 Maple av

OAKLAND—Hooper-Dombrick Art Glass Co.
SAN FRANCISCO—Cal. Art Glass Bending & Cutting Works, 938 Howard
Ingerson & Glaser Co., 245 Oak

COLORADO.

DENVER—Baker, Jas. W., 1823 Champs
Brandt Art Studio, 1429 Tremont
Copeland Art Glass Mfg. Co., 1237 8th
Denver Plate Glass Co., 1522 19th

CONNECTICUT.

BRIDGEPORT—Bridgeport Art Glass Co., 153 John
NEW HAVEN—Brown, Hubbell & Puddicombe Co., 87 Orange

DELAWARE.

WILMINGTON—Mammelle, F. C., 15 E. 4th

DISTRICT OF COLUMBIA.

WASHINGTON—Heffernau, Wm. A., 1721 6th
Vaughan, W. W., 1718 13th

GEORGIA.

ATLANTA—Pittsburg Plate Glass Co., 32 S. Pryor

ILLINOIS.

CHICAGO—CHICAGO MILL WORK
Supply Co., cor. 22d & Saugamon, Chicago, Ill. (See adv. index, end of book)
Chicago Ornamental Glass Co., 151 W. Washington

Clinton Glass Co., W. 21st & S. Morgan
Colonial Art Glass Co., 42 N. Wells
Continental Glass Decorating Co., 528 Orleans
Eberhardt, Hugo & Co., 1148 W. 12th
Ebert, Wm. O., 546 W. North av.

FLANAGAN & BIEDENWEG CO.,
The, 57 to 63 Illinois. (See adv. below)

Gianuini & Hilgart, 211 Madison
Harder, Wm. C., 2838 Union av.
Heidemeier, John, 3208 N. Clark
Hooker, H. M. Co., 59 W. Randolph
Kinsella, John J. Co., 22d & Johnson
Langer, Albert, 1007 W. Chicago av.
Linden Glass Co., 1216 Michigan av.
Lutwyche Glass Co., 84 Van Buren
McCarthy, A. J. & Co., 254 W. Madison
Millet, Louis J., 169 E. Adams
Neuhauser, David L., 10 5th av.
Rawson & Evans, 151 Washington boul

SCHULER & MUELLER, c Madison
& Canal. (See adv. bottom of page)
Suess Ornamental Glass Co., 750 Throop
Temple Art Glass Co., 117 Michigan
Western Sand Blast Mfg. Co., 21st & Marshall boul., Chicago, Ill.

DANVILLE—Wiseman, J. & Son
OTTAWA—Peltier Bros. Glass Co.

INDIANA.

INDIANAPOLIS—Hamilton, H. E. & Co., Pembroke Arcade
Schurmanu, E., 15½ N. Penna.

IOWA.

DES MOINES—Allward, J. R. Glass Co., 211 W. 9th

KENTUCKY.

LOUISVILLE—Alberts, J. B., 307 1st
Hughes, W. J. & Sons Co., c 14th & Maple
Louisville Ornamental Glass Co.

LOUISIANA.

NEW ORLEANS—Louisiana Glass & Mirror Works, 309 Lafayette

MAINE.

PORTLAND—Spence, Bell & Co.

MARYLAND.

BALTIMORE—Baumstark Art Glass Works, 69 Belair av.
Gernhardt, H. T. & Co., 411 E. Fayette
Gettier, G. W. & Co., 719 N. Eutaw
Southern Stained Glass Co., 620 N. Eutaw



**SPECIAL
DESIGNS
in ART
GLASS**

The art knowledge of the best designers in America is here at your command.

The most exquisite examples of art glass are seen in the productions from our establishment.

There is a color harmony and grace of design in all our work, whether it be simple or elaborate, which people of taste cannot fail to appreciate.

Write today for our Question Blank. It helps you decide what is most appropriate. Samples, photographs and designs furnished on request.

The FLANAGAN & BIEDENWEG CO.
61 Illinois Street, Chicago

ORNAMENTAL GLASS

SCHULER & MUELLER

Cor. Madison & Canal Sts., CHICAGO

ART GLASS

MASSACHUSETTS.

BOSTON—Bartsch, Valentine, La Grange st (W. R.)
Boston Stained & Cut Glass Works, 83 Franklin

Canning, John & Co., 634 Harrison av
Central Glass Works, 41 Washington
Colonial Stained Glass Works, 31 Hartford
Cushing & Anderson, 24 Warren, Rox.
Cutter, A. B. Co., 36 Columbus av.
Flagg, L. G. & Co., Sudbury Bldg.
Kelley, W. E. & Co., 38 Chardon
Larrabee, R. B. Co., 27 Sudbury
MacDonald, Donald, 400 Northampton
Murphy, Thomas J., 475 Tremont
Pbimps, Horace J. & Co., 144 Essex
Redding, Baird & Co., 83 Franklin
Spence, Bell & Co., 90 Canal
Union Stained Glass Co., 708 Columbia rd.
Walker, Alexander, 5 Seaver pl.
Wise, G. W. Co., 65 Franklin

WORCESTER—Worcester Stained Glass Works, 88 Winter

MICHIGAN.

DETROIT—Detroit Stained Glass Works, Orchard & 1st

Frohlich, Edward Glass Co., 52 Larned
Lee, E. F., 59 Fort E.
Michigan Ornamental Glass Co., 21st & Standish
U. S. Ornamental Glass Works, 911 Beaufort
GRAND RAPIDS—Doring Art Glass Studio
Valley City Glass & Paint Co.

MENOMONEE—Menomonee Stained Glass Works, 601 Williams

MINNESOTA.

DULUTH—St. Germain Bros., 21 1st av.

MINNEAPOLIS—Ford Bros. Glass Co., 209 N. Washington av

ST. PAUL—Whitehead, W. G., 21 E. 8th

MISSOURI.

KANSAS CITY—Kansas City Stained Glass Works & Sign Co., 514 Wyandotte
ST. JOSEPH—St. Joseph Art Glass Co., 1008 Jule

ST. LOUIS—Davis, W. W., 1329 Wash'n av
Hadley-Dean Glass Co., 11th & Lucas av
Hannan, Albert A., 2723 Lafayette av
Jacoby Art Glass Co., 1107 Pine
Kerwin, E. F., Ornamental Glass Co., 925 N Meyer, Albert, 2121 S 12th 6th
St. Louis Art Glass Co., 1107 Pine
Wallis, A. H., 3308 Easton av
Weigelt Glass & Mirror Mfg. Co., 615 S 6th
Wendling Jos. Glass Co., 15th & Chestnut

NEBRASKA.

OMAHA—Adams & Kelly Co., 1202 Nicholas
Bloom, Alfred Co., 2203 Miami
Disbrow, M. A. & Co., 12th & Nicholas

NEW JERSEY.

CAMDEN—Lamar, A. C., 9 Market

IRVINGTON—Denman, Julius R.

NEWARK—Belcher, Chas., 21 Belleville av
Haudler, J., 228 Broome
Hankinson, Henry B., 9 Avon av
Metzger, Richd., 54 Duryea
O'Halloran's, Thos. Sons, 127 Van Buren
Sharpe Bros., 3 Court

ORANGE—Jordan, Chas., 289 Main
Stevens, Jos., 241 Scotland

PATERSON—Payne, George H., 40 Park av

NEW YORK.

ALBANY—Albany Mantel & Tile Co., 462 B'way
Blockside, Jas., 2 High
Buckley, Thos., 452 B'way
Chapman, Wm. B., 222 Hudson av
Jones & Buchanan, 57 Malden lane
Skinner, Geo. J., 45 High

BROOKLYN—(See N. Y. City, Borough of Brooklyn)

BUFFALO—Becker Glass & Paint Co., 372 Pearl
Booth's Art Stained Glass Works, 67 Frank-
Briscall-Miller Co., 58 Genesee lin
Buffalo Glass Co., 96 Seneca
Frohe Art & Stained Glass Establishment, 220 B'way
Terhaar & Mundle, 359 Jefferson

NEW YORK CITY.**Borough of Brooklyn.**

BROOKLYN—Arnold & Locke, 250 Fulton
Hausleiter, Julius & Co., 182 Fulton
Keller, John, 1050 B'way
Lamb, Maskell T., 44 Bergen
Molic, Frank, 109 Court
Morgan Bros., 707 Gates av
Morgan, Jno. & Sons, 17 Union av
Muelbe, L. F., 1447 Flatbush av
Passarge, A. H., 338 A. Gates av
Shaw, H. S., 107 B'way
Summers, Chas., 239 Nassau
Tuckhorn, Francis, 366 Atlantic av

Boroughs of Manhattan & Bronx

NEW YORK—Armstrong, Maltland & Co., 61 Washington sq S
Art Glass Mfg. Co. of New York, 159 Sulli-
van
Castle, Montague, 133 W 24th
Colgate Art Glass Co., 8 Gansevoort
Cornell, J. C. Co., 122 Morningside av, E
Crowninshield, Frederic, 42 W 18th
Decorative Stained Glass Co., 46 Wash. sq S
De Luze, Grace S., 3 E 28th
Dodge, Robert L., 8 E 23d
Dougherty, James, 435 B'way
Etruscan Art Glass Co., 28 E 20th
Geissler, Rudolph, 56 W. 8th
Grimm, A. C., 155 E 23d
Hamilton, Geo., 424 W B'way
Heinigke & Bowen, 26 E 13th
Henderson Bros., 342 E 38th
Henderson, Robert, 117 W 30th
Herrlein & Heinrich, 99 Hudson
Howard Glass Works, 178 Greenwich
Janes, Walter & Co., 138 W 42d
Kimberly, Oliver S., 11 W 32d
Klaus & Durham, 105 E 59th
Koechig, Julius C., 717 6th av
Lamb, J. & R. (Inc.), 25 6th av
Maginn, Charles, 17 E 14th
Malz, Herman, 19 E 14th
Mayer & Co., 47 Barclay
McCaw, Stevenson & Orr (Ltd.), 11 S Will-
liam
Morgan, John & Sons, 61 E 9th
Parkhurst Bros., 156 5th av
Quinn, Jno. F., 2192 B'way
Rae, G. & Co., 173 Prince
Rambusch Glass & Decorating Co., 160 5th
Rawson & Evans, 460 W B'way av
Righter & Kolb, 156 5th av
Sellers, Benj., 80 Bible House
Spiers, Richard N., 859 6th av
Taft & Belknap Galleries, 1 E 40th
Tiffany Glass & Decorating Co., Madison av & 45th

Tyrolese Art Glass Co., 25 W B'way
Venetian Art Glass Co., 121 W 24th

(END OF NEW YORK CITY)

ROCHESTER—Chaplin, Louis S., 38 Exchange
Gustafson, J. H., 80 Main, W
Haskins & Co., 231 James
Pike & Stacy Stained Glass Co., 25 Clinton av, N

SYRACUSE—Wood, Clarence W., 238 N Salina
Wood Glass Co., 113 James

UTICA—Davis, Chas. P. Sons, 6 Noyes
Wagner, Theo. H., 217 Park av

YONKERS—De Angelis, Fredk., 38 Nepperhan

NORTH CAROLINA.

WILMINGTON—Richards, Ernest V.

OHIO.

CINCINNATI—Erkins Art Glass Co., Gilbert av
& Eden Park
Glenny, Wm. Glass Co., 49 Race
Riordan, G. C. & Co., 133 E 5th
Ruckel Art Glass Co., 535 S. Camore
Tomoor, L. Sons, Perin bldg

CLEVELAND—Cleveland Window Glass Co.,
209 Champlain, N. W.
Korfhage, John H., 2187 E 2d
Krause, Edward F., 1660 Columbus rd, N. W.
Lewis, H. W., 230 St. Clair
Teachout, A. Co., 321 Prospect av, N. W.
Whipple Art Glass Co., 329 Prospect av, N. W.

Woodman, Geo. F., 5710 Euclid av
COLUMBUS—Bryant Bros., 123 S 3d
Von Gerichten Art Glass Co.

DAYTON—Dayton Art Glass Works
Stevens Art Glass Co., 28 S St Clair

TOLEDO—Toledo Art Glass Co., 500 S St Clair
Toledo Plate & Window Glass Co., Elm &

YOUNGSTOWN—Allen, T. D. & Sons, Utica
Dolde Art Glass Works

OREGON.

PORTLAND—Portland Art Glass Works, 265 1/2 Taylor
Povey Bros. Glass Co., 100 N 5th
Wagner, F. H., 412 Davis

PENNSYLVANIA.

ALLEGHENY—Connolly, Thos. A. & Co., 18 Park way
Marshall, S. S., Art Glass Co., 822 Cedar av
Ornamental Art Glass Co., Erie & W Dia-
mond
Twin City Art Glass Works, Sandusky cor
Robinson

ERIE—Messenger, Benj., 149 E 10th

PHILADELPHIA—Artistic Stained Glass Wks.,
222 N 4th

Callanau, Martin, 421 N 19th
Century Stained Glass Works, Ltd., 219 S
11th

Columbia Stained Glass Works, 25 S 2d
Decorative Glass Co., 3248 Chestnut

Dukes, Henry Glass Works, 2129 Market
FRENCH, S. H. & Co., 4th & Cal-
lowhill. (See adv. index, end of book)

Godwin, Alfred, 1343 Arch
Groves, R. S., 617 S Broad

Hawkins, A. W., 1823 S 19th
Hensel, C. F., 28 N 5th

Linus, Jas. E., 3751 N 5th
Marcus Bros., 866 N 10th

Oesterle Stained Glass Works, 134 N 10th
Quaker City Stained Glass Works, 1407 Vine

Reith, Wm., 134 N 7th
Roeschen, Wm. A., 1224 N 10th

Sealey, Henry E. & Co., 250 N 12th
Shilling, Albert, 928 N 11th

Smith, H. J. & Sons, 236 S 8th
PITTSBURG—Castor, Thos H., 214 Shetland

Mitchell, Wm., 7718 Snowden
Oriental Glass Co., Sarah & S 8th

Petgen & Stenholm, 6709 Hamilton av
Pittsburg Stained Glass Works, 5929 Baum

Rodgers, Linus, 1714 Sidney
Rudy Bros. & Co., S Highland & Center avs

Schmidt, F. R., 210 Smithfield
Schmidt Stained Glass Co., 14 Excelsior

Semmer, Philip Co., 240 3d av
Wightman, Thomas Co., 232 2d av

Willett Stained Glass & Decorating Co.,
6614 Fifth av

READING—Kase, J. M. & Co., 511 Wash'n

RHODE ISLAND.

PROVIDENCE—Goodman, E. J. R. Stained
Glass Works, 43 N Main
Rhode Island Glass Co., 131 Washington

VIRGINIA.

NORFOLK—Norfolk Art Glass Co.
RICHMOND—Bunce Art Glass Co., 301 N 9th

WASHINGTON.

SEATTLE—Puget Sound Art Glass Co., 9th &
Westlake av
Suess & Smith, 2421 Western av

WEST VIRGINIA.

WHEELING—Wheeling Glass Letter & Novelty
Co.

WISCONSIN.

LA CROSSE—Art Glass Co.
Oyen, Odin J., 116 S 4th

MANITOWOC—Manitowoc Art Glass Co.
MILWAUKEE—Gavin Mirror & Art Glass
Works, 627 Park

Hachman Art Glass Co., 168 Reed
Milwaukee Mirror Art Glass Works, 203
B'way

OSHKOSH—Wisconsin Art Glass Co., c Pearl &
Division

Glass Stainers' Supplies

Deissler, P. & Bro., 249 S 6th, Phila., Pa.

Glass (Structural Sanitary)

Penn American Plate Glass Co. ("Novus"),
Pittsburg, Pa.

***Glass (Transparent Wire)**

MISSISSIPPI WIRE GLASS CO., 277
B'way, New York. (See adv. index & branch
offices, end of book)

Glass (Vault & Sidewalk, Mfrs.)

Cambridge Glass Co., Cambridge, O.
 Canton Glass Co., Marion, O.
 Chicago Flint & Glass Lime Co., 62 Lake, Chicago, Ill.
 Co-Operative Flint Glass Co., Beaver Falls, Pa.
 Imperial Glass Co., Bellaire, O.
 National Glass Co., Bessemer bldg, Pittsburg, Pa.
 Orange County Flint Glass Works (Brox & Ryall, Props.), Port Jervis, N. Y.
RODEFER, T. A. (Tiling & Arch'l
 Iron Works), Bellaire, O. (See adv. below)
 Sneath Glass Co., Hartford City, Ind.

***Glass (Washboards)**

MISSISSIPPI GLASS CO., 277 B'way,
 New York. (See adv. index & branch offices, end of book)

Glass (Window, Mfrs.)

(Companies marked with a Star (*) are controlled by the American Window Glass Co.)
 *American Window Glass Co., Farmers Bank bldg, Pittsburg, Pa., & Gas City, Ind.
 *Anderson Glass Co., Anderson, Ind.
 Atlantic Window Glass Co., Magnolia, N. J.
 Baker Bros. Glass Co., Arcadia, Ind.
 Banner Window Glass Co., Sheridan, Ind.
 Baur Window Glass Co., Eaton, Ind.
 Bellefonte Window Glass Co., Bellefonte, Pa.
 Boyd Glass Co., Mt. Jewett, Pa.
 Brownsville Co-Operative Window Glass Co., Brownsville, Pa.
 Christiana Window Glass Co., Wilmington, Del.
 Clelland Window Glass Co., Hartford City, Ind.
 Cole, C. P. & Co., Lancaster, O.
 Columbus Plate & Window Glass Co., Columbus, O., & Lancaster, O.
 Covington Glass Works, Covington, Pa.
 Crown Glass Co., Matthews, Ind.
 Cumberland Glass Mfg. Co., Bridgeton, N. J.
 Cunningham, D. O. Glass Co., S 22d & Jane, Pittsburg, Pa.
 Diamond Glass Co., Wilcox, Pa.
 Diamond Window Glass Co., Gas City, Ind.
 Durhamville Glass Works, Durbanville, N. Y.
 Dunkirk Window Glass Co., Dunkirk, Ind.
 Eastern Ohio Glass Co., Barnesville, O.
 *Elmira Glass Cutting Co., Elmira, N. Y.
 Fitzpatrick Glass Mfg. Co., Falls Creek, Pa.
 George Window Glass Co., Wilcox, Pa.
 *Hartford City Flint Glass Co., Hartford City, Ind.
 *Hazelhurst Window Glass Co., Hazelhurst, Pa.
 Ithaca Glass Mfg. Co., Ithaca, N. Y.
 King, Wm. & Bro., 113 W Fayette, Baltimore, Md.
 La Rucbe Window Glass Co., Matthews, Ind.
 Mahler, J. Glass Co., Dubois, Pa.
 Marilla Co-operative Glass Co., Montgomery, W. Va.
 Matthews & Sun Glass Co., Matthews, Ind.
 Millville Crystal Glass Co., Millville, N. J.
 Monongahela Window Glass Co., New Eagle, Pa.
 More-Jones Glass Co. (Inc.), Brldgeton, N. J.
 Mutual Glass Co., Ithaca, N. Y.
 National Window Glass Co., Montpelier, Ind.
 New Bethlehem Window Glass Co., New Bethlehem, Pa.
 Ohio Falls Co-Operative Window Glass Co., New Albany, Ind.

Pendleton Window Glass Works, Pendleton, Ind.
 Pittsburg Window Glass Co., Washington, Pa.
 Progress Window Glass Co., Matthews, Ind.
 Saginaw Plate Glass Co., Saginaw, Mich.
 Smethport Glass Co., Smethport, Pa.
 *Swindell Bros., cor Bayard & Russell, Baltimore, Md.
 Tuna Glass Co., Bradford, Pa.
 Van Cleve Glass Co., Wilcox, Pa.
 Vineland Window Glass Co., Vineland, N. J.
 Wellsboro Glass Works, Wellsboro, Pa.
 Western Glass Co., Streator, Ill.
 Winslow Glass Co., Matthews, Ind.

Glass (Wire)

Continuous Glass Press Co., Penna. bldg, Phila., Pa.
MISSISSIPPI WIRE GLASS CO., 277 B'way,
 New York. (See adv. index & branch offices, end of book)

Glass (Wire, Approved Fire Stop)

MISSISSIPPI WIRE GLASS CO., 277 B'way,
 New York. (See adv. index & branch offices, end of book)

Glass (Wire, for Fire-Proof Windows)

MISSISSIPPI WIRE GLASS CO., 277 B'way,
 New York. (See adv. index & branch offices, end of book)

***Glass (Wire, for Show Cases)**

MISSISSIPPI WIRE GLASS CO., 277 B'way,
 New York. (See adv. index & branch offices, end of book)

Glass (Wire, Skylight)

MISSISSIPPI WIRE GLASS CO., 277 B'way,
 New York. (See adv. index & branch offices, end of book)

Glass (Zahlfest, Non-Breakable)

Bonner, Wm. T. Co., 246 Summer, Boston, Mass.

Glasses (Cylindrical)

Rogers, H. A. Co., 10 John, N. Y.

Glassware (Chemical & Druggists')

Canton Glass Co., Marion, Ind.
 Co-Operative Flint Glass Co. (Druggists'), Beaver Falls, Pa.
 Gillinder & Sons (Inc.), 135 Oxford, Phila., Pa.
 Penn Glass Tube Co., Bradford, Pa.
 Wagner Glass Works (Chemical Glassware & Apparatus), 965 E 132d, New York

Glaziers' Points

(See Points, Glaziers')

Globes (Arc Lamp)

Fostoria Glass Specialty Co. ("Nubiac" Inner), Fostoria, O.
 Gillinder & Sons (Inc.), 135 Oxford, Phila., Pa.
 Libbey Glass Co., Toledo, O.
 Murray, Jas. J. & Co., Trenton av & Westmoreland, Phila., Pa.
 Williamsburg Flint Glass Co., 260 Boerum, Brooklyn, N. Y.

Globes for Incandescent Light

Clark Bros. Glass Mfg. Co., Ellwood City, Pa.
 Faries Mfg. Co., Decatur, Ill.
 Fostoria Glass Specialty Co. (also for Arc Lamps), Fostoria, O.
 Gill & Co. (Inc.), c York & Thompson, Phila., Pa.
 Gillinder & Sons (Inc.), 135 Oxford, Phila., Pa.
 Gleason-Tiebout Glass Co., 99 Commercial, Brooklyn, N. Y.
 Holophane Glass Co., 227 Fulton, New York.
 Murray, Jas. J. & Co., Trenton av & Westmoreland, Phila., Pa.
 Phoenix Glass Co. (Electric & Gas), 13 Murray, New York, & 2d National Bank bldg, Pittsburg, Pa.
 Williamsburg Flint Co., 260 Boerum, Brooklyn, N. Y.

Globes (Fresnal, for Steamships)

Sneath Glass Co. (All Colors), Hartford City, Ind.

Globes (Inner Arc)

Corning Glass Works, Corning, N. Y.
 Fostoria Glass Specialty Co., Fostoria, O.
 Gillinder & Son (Inc.), 135 Oxford, Phila., Pa.
 Libbey Glass Co., Toledo, O.
 Lippincott Glass Co., Alexandria, Ind.
 Macbeth-Evans Glass Co., Pittsburg, Pa.
 Murray, Jas. J. & Co., Trenton av & Westmoreland, Phila., Pa.
 Phoenix Glass Co., 15 Murray, New York
 Sargent Glass Co., Evansville, Ind.

Globes (Lantern)

Corning Glass Works, Corning, N. Y.
 Gill Bros. Co., Steubenville, Ohio
 Gillinder & Sons (Inc.), 135 Oxford, Phila., Pa.
 Libbey Glass Co., Toledo, O.
 Lippincott Glass Co., Alexandria, Ind.
 Macbeth-Evans Glass Co., Empire bldg, Pittsburg, Pa.
 Murray, Jas. J. & Co., Trenton av & Westmoreland, Phila., Pa.
RODEFER, T. A. (For Lantern Mfrs.
 Bellaire, O. (See adv. below)
 Sneath Glass Co. (All Colors), Hartford City, Ind
 Williamsburg Flint Glass Co., 260 Boerum, Brooklyn, N. Y.

Globes & Shades (Prismatic)

Holophane Glass Co., 227 Fulton, New York

T. A. RODEFER, NATIONAL GLASS WORKS

MANUFACTURER OF

Battery Jars, Vault, Sky and Prismatic Window Lights.

Specialties in Opal, Crystal, Lead and Colored Glass.

PRIVATE MOULD WORK SOLICITED.

Lime and Lead Lamp Chimneys, Lantern Globes. Opal Ware for Decorations.

BLOWN AND PRESSED SPECIALTIES IN PRIVATE MOULDS.

BELLAIRE, OHIO.

Gloves (Rubber)

Davol Rubber Co., Providence, R. I.
 Faultless Rubber Co., Ashland, O.
 Goodrich, B. F. Co., Akron, O.
 Miller Rubber Mfg. Co. (Also Finger Cots), Akron, O.
 National India Rubber Co., Bristol, R. I.
 Pure Gum Specialty Co., Barborton, O.

Glue (Fish)

American Glue Co., 150 Kinzie, Chicago, Ill.
 Dodd, A. W. & Co., Gloucester, Mass.
 Russia Cement Co., 103 Reade, New York
 Tower & Lyon Co., 95 Chambers, New York
 Whittemore Bros. & Co., Cambridge, Mass.

Glue Mfrs.**CALIFORNIA.**

SACRAMENTO—Jurgens, C. & Son
 SAN FRANCISCO—Burd, Wm., 23 Davis
 Butcher, L. H. Co., 741 Mission
 California Glue Works, 106 Pine
 California Paint Co., 22 Jessie
 Challenge Glue Co., 16th av So, nr G. st
 Pacific Glue Works, 612 7th
 Watcher Mfg. Co., 12 Drumm

DELAWARE.

WILMINGTON—Delaware Glue Co.

DISTRICT OF COLUMBIA.

WASHINGTON—Royal Glue Co., 210 N. S. W.

ILLINOIS.

CHICAGO—American Glue Co., 150 Kinzie
 Armour Glue Works, 205 La Salle
 Baeder, Adamson & Co., 172 Lake
 Bailey, C. T. & Co., 138 Wash'n
 California Glue Works, 138 Wesh'n
 Delany & Co., 247 S Canal
 Dennis, Wm. J. & Co., 916 W Lake
 Diamond Glue Co., 218 La Salle
 Haines, E. H., Ashland blk
 Layton Elastic Glue Co., 425 69th
 Lister, Jos., 1158 Elston av
 Midland Glue Co., Monadnock blk
 Spiegel, J. & Co., 218 La Salle
 Standard Glue Co., Monadnock blk
 Stein, Hirsh & Co., 2597 Archer av
 Thurston, F. W. & Co., 29 River
 U. S. Glue Co., 193 Lake
 Wisdom & Co., 205 E. Lake

INDIANA.

INDIANAPOLIS—National Glue Co., 525 W.
 LOGANSPORT—Powell, Schuyler, 14th
 NEW ALBANY—Conrad & Krammerer

KENTUCKY.

LOUISVILLE—National Glue Co.

MARYLAND.

BALTIMORE—Baugh & Sons Co., 36 South
 Bullock, Jno. & Son, 205 Smith's Wharf
 Coulson, Edw. L., Jenkins lane
 Wachter Mfg. Co., 509 W. Pratt

MASSACHUSETTS.

BILLERICA—Jaquith, F. & J.
 BOSTON—American Glue Co., 121 Beverly
 Armour Glue Works, 49 Purchase
 Baeder, Adamson & Co., 68 High
 Diamond Glue Co., 70 Kilby
 Ferdinand, L. W. & Co. (Cement "20" Century, & Marine "Jeffery's, Sole Importers"), 201 South, Boston, Mass.
 Hammond Glue Co., 121 Beverly
 Holdfast Glue Co. ("Holdfast Animal Liquid")
 International Glue Co., 121 Beverly
 Martin, D. B. Co. (Inc.), 451 Atlantic av
 Nash, E. W. Co., 90 Pearl
 Standard Glue Works, 91 Oliver
 Ward, N. Co., E 1st, ft of I
 Whitten, J. O. Co., 68 Western av
 GLOUCESTER—Dodd, A. W. & Co., 5 Wharf
 Gloucester Isinglass & Glue Co., Eastern av
 Russia Cement Co., off Essex av

LOWELL—Holt, Jno. & Co., 270 Tanner
 MARBLEHEAD—Marblehead Mfg. Co.
 PEABODY—American Glue Co.
 SALEM—Atlantic Glue Co.
 WOBURN—Baeder, Adamson & Co.
 WORCESTER—Darling, L. B. F. Co.

MICHIGAN.

DETROIT—Berry Bros., Wight & Lieb
 Michigan Carbon Works, 5 Front
 GRAND RAPIDS—G. R. Glue Co.
 Wetmore Glue Co.
 MUSKEGON—Schneidt. Aug.

MISSOURI.

ST. JOSEPH—Swift & Co., Stock Yards
 ST. LOUIS—American Glue Co., 410 Elm
 Clarkson Glue Co., 216 N Main
 Mathiason, P. B. Mfg. Co., 5342 N. 2d
 Reardon Mfg. Co., 1004 N. B'way
 St. Louis Glue Mfg. Co., 323 N Main
 Tamm Bros. Glue Co., Sarpy av nr Manchester av
 U. S. Glue Co., 911 Locust

NEW HAMPSHIRE.

KEENE—Keene Glue Co.

NEW JERSEY.

NEWARK—Baeder, Adamson & Co., Lockwood
 c Albert av
 Lister Agricultural Chemical Works, Lister av
 N. J. Glue Works, 606 Blanchard

NEW YORK.

BROOKLYN—(See New York City, Borough of Brooklyn)
 BUFFALO—Blehdon, Victor R., Mooney bldg.
 Couch, B. T. & Co., 953 S Park av
 GLOVERSVILLE—Fulton County Glue Co. (JOHNSTOWN—Fulton County Glue Co.)
 Knox, C. B., 217 Chestnut

NEW YORK CITY.**Borough of Brooklyn**

BROOKLYN—Arabol Mfg. Co., 58 Nostrand av

Boroughs of Manhattan & Bronx

NEW YORK—Armour Glue Works, 211 Pearl
 Baeder, Adamson & Co., 67 Beekman
 Behr, Herman & Co., 75 Beekman
 Bird, J. A. & W. Co., 62 William
 Cooper's Peter, Glue Factory, 13 Burling
 Delany & Co., 241 Water
 Delaware Glue Co., 358 Pearl
 Eagle Glue & Curled Hair Co., 2 Dover
 Hoyt, Arthur S., 90 W. B'way
 Lister's Agr'l Chem'l Works, 26 B'way
 Milligan & Higgins Glue Co., 222 Front
 National Glue & Gelatine Works, 502 W 45th

National Gum & Mica Co., 502 W. 45th
 Putnam, Thos. L. & Son, 239 Water
 Russia Cement Co., 103 Reade
 Townsend, Chas. & Bro., 276 Pearl

OHIO.

CINCINNATI—Bird Glue Co., 3d & Main
 Marienthal, M. & Son, 529 Poplar
 Standard Glue Co., 840 W 6th
 Stephens & Bro., Miami Canal & Marshall
 CLEVELAND—Masel, Chas., 43 Brooklyn av
 MARIETTA—Strecker, John
 URBANA—Sanders, Robert

PENNSYLVANIA.

ALLEGHENY—Globe Glue Co., 164 Spg. Garden av
 HIGH SPIRE—Robrer & Morrow
 LANCASTER—Lamparter, E. J.
 Lamparter, Geo.
 PHILADELPHIA—American Glue Co., 142 N. Front
 Baeder, Adamson & Co., 730 Market
 Berg, A. Glue Co., Ontario below Richmond
 Delaney & Co., 209 N 3d
 Diamond Glue Co., 420 Commerce
 Foerderer, Robt. H. (Est of), Garden nr
 Haws, Dan'l B., 30 N 5th Brill bldg

Martin, D. B. Co. (Inc.), Land Title bldg.
 Stein, Hirsh & Co., 16 N Front
 Swoboda, Harry, 323 N 3d
 Tunnell, F. W. & Co., 15 N. 5th
 Ward, Frank, 9 N 41st
 PITTSBURG—Wilhelm, Hy., 4 Fountain
 READING—Safety Chemical Co.
 SPRINGDALE—American Glue Co.
 WARREN—Keystone Glue Mfg. Co.

VIRGINIA.

RICHMOND—Christian, Thos., Tobacco Ex bldg

WISCONSIN.

MANITOWOC—Manitowoc Glue Co.
 MILWAUKEE—United States Glue Co.

Gluers (Paper Box)

Beck, Chas. Paper Co. (Sta.), 607 Chestnut, Phila., Pa.

Glycerine

Goodwin Mfg. Co. (Chemically Pure), St. Louis, Mo.
 Schneider, E. & Co., Fisher bldg, Chicago, Ill.
 Tennant & Sons Co. (Importers), 76 William, New York
 Will & Baumer Co. (Distillers), Syracuse, N. Y.

Goggles & Eye Protectors

Demmerle & Co., 248 W 23d, N. Y. City.
 Detroit Motor Car Co., Detroit, Mich.
 Globe Optical Co., Boston, Mass.
 Lamb Eye Shield Co., Boston, Mass.
 Meyrowitz, E. B., 104 E 23d, N. Y. City
 Motor Car Supply Co., 1420 Michigan av, Chicago, Ill.
 Munsell, Eugene Co., 218 Water, N. Y. City.
 Ophthalmoscope Co., Toledo O.
 Rhode Island Eye Shield Co. ("Weldron"), Providence, R. I.
 Scheidig, Jno. B. & Co., 43 Maiden lane, N. Y. City
 Spencer Optical Co., 12 Maiden lane, N. Y. City
 Sussfield Lorsch Co., 37 Maiden lane N. Y. City
 Scheffer & Rossum Co., St. Paul, Minn.
 Texas Co., Chicago, Ill.

***Gold Leaf**

GRAMMES, L. F. & SONS, Allentown, Pa. (See adv. index, end of book)

***Gold Leaf Composition**

GRAMMES, L. F. & SONS, Allentown, Pa. (See adv. index, end of book)

Gold Leaf for Outside Decorations

Hickson, Stephen, 559 Broome, New York
 Kemp, W. H. Co., 165 Spring, New York

***Gold and Silver Sheet & Plate**

UNITED WIRE & SUPPLY CO., 109 Summer, Providence, R. I. (See adv. index, end of book)

Gongs (Car, Etc.)

(See Bells and Gongs, Car.)

Gongs (Electro-Mechanical)

Boston Electric Co., 29 Harrison av, Boston Mass.
 Bunnell, J. H. & Co., 20 Park pl., & Milford, Conn.
 Electric Goods Mfg. Co., 115 Purchase, Boston, Mass.
 Gamewell Fire Alarm Telegraph Co., 19 Barclay, New York
 Holtzer-Cabot Electric Co., Brookline, Mass.
 Ostrander, W. R. & Co., 22 Dey, New York
 Partrick, Carter & Wilkins, 1231 Callowhill, Philadelphia, Pa.
 Pearce, Frederick Co., 18 Rose, New York
 Star Electric Co., Binghamton, N. Y.

Gouges

Bernz, Otto S., 13th c S Orange av
Buck Bros., Millbury, Mass.
Buck, Chas., Millbury, Mass.
Bradley's G. W. Sons (Inc.) (Ship), Westport,
Conn.
Mack & Co. ("D. R. Barton"), Rochester, N. Y.
New England Specialty Co., North Easton, Mass.
Swan, Jas. Co., Seymour, Conn.
Winsted Edge Tool Works, Winsted, Conn.

Governors (Compressor)

ANDERSON FORGE & MACHINE CO.,
271 Guoin, Detroit, Mich. (See adv. index,
end of book)
INGERSOLL - RAND CO., 11 B'way,
New York. (See adv. index & branch offices,
end of book)
Jarecki Mfg. Co. ("Erie"), Erie, Pa., & Pitts-
burg, Pa.

Governors (Feed Water)

(See Regulators, Feed Water)

Governors (Gas)

Bayl's Company, 140 Washington, New York
Cadman, A. W. Mfg. Co. ("Cadman's"), 2814
Smallman, Pittsburg, Pa.
Connelly Iron Sponge & Governor Co. (Auto-
matic, Balance & Service), 395 B'way,
Ford, A., Oakland, Cal. N. Y.
Lee Gas Governor Co., Providence, R. I.
Leffler, Chas. & Co. ("Automatic"), 63 Cly-
mer, Brooklyn, N. Y.
New Amsterdam Mfg. Co. (The Colonial), 104
Washington, N. Y.
WILSON, F. CORTEZ & CO., 239
Lake, Chicago, Ill. (See adv. index, end of
book)

*Governors (Gasoline)

AMERICAN WELL WORKS, Aurora,
Ill. (See adv. index & branch offices, end of
book)

*Governors (Motor Compressor)

AMERICAN WELL WORKS, Aurora,
Ill. (See adv. index & branch offices, end of
book)
INGERSOLL - RAND CO., 11 B'way,
New York. (See adv. index & branch offices,
end of book)
WESTINGHOUSE TRACTION BRAKE
Co., Pittsburg, Pa.

Governors (Pressure)

H. & M. Automatic Regulator Co., Newark,
N. J.
Johnson Service Co. (For Steam Boilers, Air
Compressors, etc.), Milwaukee, Wis.

Governors (Pump)

(See also Regulators, Pump)

Acton, John (& Receivers), 116 John, Brooklyn,
Albany Steam Trap Co., Albany, N. Y. N. Y.
All Metal Valve Co. (Vacuum), 136 Liberty,
New York
AMERICAN WELL WORKS, Aurora,
Ill. (See adv. index & branch offices, end of
book)
Atwood & Morrill ("XX Century"), Salem,
Mass.
Berry Engineering Co. ("Monograph"), Chester,
Pa.
Belfield, H. & Co., 435 N Broad, Phila., Pa.
Burrows Mfg. Co. (Automatic), York, Pa.
Burton & Kennedy, 107 W Centre, Cleveland, O.
Chaplin-Fulton Mfg. Co., 28 Penn av, Pittsburg,
Pa.
Chicago Engineer Supply Co. ("Boylston"),
112 Lake, Chicago
Consolidated Engineering Co. ("Van Auker,"
for Feed & Vacuum Pumps), cor Jackson &
Canal, Chicago, Ill.
Collins Mfg. Co. ("Griffith's" Automatic),
Phila., Pa.
Davis, G. M. Regulator Co. (Auto. Condenser &
Receiver), 144 Milwaukee av, Chicago, Ill.
Davis, Jno. Co. ("Eclipse"), 22d & Halsted,
Chicago, Ill.
Dean Bros. Steam Pump Works, Indianapolis,
Ind.

D'Este, Julian Co., 24 Canal, Boston, Mass.
Dow, Geo. B. Pumping Engine Co., 179 1st, San
Francisco, Cal.
Eynon-Evans Mfg. Co., 1519 Clearfield, Phila.,
Pa.

Fisher Governor Co. (Steam Pumping Engine),
Marshalltown, Ia.
Ford, Thos. P. Co. (Automatic), 407 Broome,
New York
Foster Engineering Co. (General Service, Boiler
Feed, Fire Pump, etc.), Newark, N. J.

GARDNER GOVERNOR CO., Quincy,
Ill. (See adv. index, end of book)
Harlem Mfg. Co., 42 W 67th, New York
Kelly & Jones Co., 135 Water, Pittsburg, Pa.
Kieley & Mueller ("Rockaway" Automatic), 7
W 13th, New York

Kitts Mfg. Co. (Pressure), Oswego, N. Y.
Klipfel Mfg. Co. ("K. & T."), 74 W Lake,
Chicago, Ill.
Locke Regulator Co. ("Beats-All"), Salem,
Mass.
Mason Regulator Co., Boston, Mass.
Middlesex Machine Co. ("Legg"), Lowell,
Mass.

Monash-Younger Co. ("Monarch"), 88 Centre,
N. Y., & 201 S. Canal, Chicago
Murray Automatic Boiler Feed Co., Detroit,
Mich.

OTIS ELEVATOR CO. ("Electric"),
17 Battery pl, New York. (See adv. index &
branch offices, end of book)

QUIMBY, WM. E. (Inc.), 44-60 E 23d,
New York. (See adv. index, end of book)
Roberts, Geo. I. & Bros., 471 4th av, New
York

Ross Valve Co., Troy, N. Y.
San Francisco Tool Works, 23 Stevenson, San
Francisco, Cal.

Scott Valve Co., 32 W Randolph, Chicago, Ill.
Standard Steam Specialty Co. ("Utility"), 542
W B'way, New York
Stelgert, Leopold (The "U. S." Automatic),
Elder & Logan, Cincinnati, O.

STRONG, CARLISLE & HAMMOND
Co. (The "Squires"), 333-334 Frankfort av,
N. W., Cleveland, O. (See adv. index, end
of book)

Union Water Meter Co., Worcester, Mass.
Valley Iron Works, Williamsport, Pa.
Van Auker-Cleavac Co. ("Cleavac"), Yonkers,
N. Y.

Waters Governor Co., 34 Oliver, Boston, Mass.,
& Everett, Mass.
Watts Regulator Co. (Watts), Lawrence, Mass.

WILLIAMS, D. T. VALVE CO., 904
B'way, Cincinnati, O. (See adv. index,
end of book)

Williams Gauge Co., 543 4th av, Pittsburg, Pa.
Wilson-Snyder Mfg. Co., Ross & Water, Pitts-
burg, Pa.

Wood, R. D. & Co., 400 Chestnut, Phila., Pa.

Governors (Steam Engine)

Bayard, M. L. & Co., Woodbine, N. Y.
Davidson, Thos. P. ("Goodwin" Cut Off), 1437
N Watts, Phila., Pa.
Eclipse Governor Co. (Eclipse), Vicksburg, Mich.
Fisher Governor Co. (Steam Pumping Engine),
Marshalltown, Ia.

GARDNER GOVERNOR CO., Quincy,
Ill. (See adv. index, end of book)

Gunther Mfg. Co., Owensboro, Ky.
Jarecki Mfg. Co., Erie, Pa.

Jones & Kuhlke ("Standard"), Akron, O.
Judson Governor Co., Rochester, N. Y.
Lombard Governor Co., Ashland, Mass.
Monarch Governor & Machine Co., 1263 Barth av,
Indianapolis, Ind.

Nordberg Mfg. Co. (Automatic Cut-off), 476 Vir-
ginia, Milwaukee, Wis.

Pickering Governor Co., Portland, Conn.
Sensitive Governor Co., 1263 Barth av, Indian-
apolis, Ind.

Sinker-Davis Co. ("King"), 230 S. Missouri,
Indianapolis, Ind.

Skinner Engine Co., Erie, Pa.
Stearns Mfg. Co. ("Shepherd"), Erie, Pa.
Thorpe, Platt & Co. (Marine, Importers), 99 Ce-
dar, New York

Vulcan Works ("Jenkins" for Marine En-
gines), Chester, Pa.

Walsh Governor Co., La Porte, Ind.
Waters Governor Co., Everett, Mass., & 34
Oliver, Boston, Mass.

Watts Regulator Co., Lawrence, Mass.

Governors (Water Level)

Johnson Service Co. (For Closed or Open
Tanks), Milwaukee, Wis.

Governors (Water Wheel)

COHOES IRON FOUNDRY & MA-
chine Co. ("Snow"), Cohoes, N. Y. (See
adv. index, end of book)

Holyoke Machine Co., Holyoke, Mass.
Humphreys Machine Co., Keene, N. H.
Hunt, Rodney Machine Co., Orange, Mass.
Leffel, Jas. & Co., Springfield, O.
Lombard Governor Co., Ashland, Mass.
Lombard-Replogle Engineering Co., Akron, O.
Ludlow Valve Mfg. Co. (Sturgess Engineering
Dept.) ("Sturgess"), Troy, N. Y.
Schenck Governor Co., Meriden, Conn.
Sturgess Governor Engineering Co., Troy, N. Y.
Trump Mfg. Co., Springfield, Ohio.
Woodward Governor Co., Rockford, Ill.

Grabs (Clam Shell & Orange Peel)

(See Buckets, Clam Shell; also Buckets, Orange
Peel)

Gradometers

(See Meters, Distance Recording)

Grain Elevator Builders

Barnard Machinery Co., Enterprise, Kan.
Barnett & Record Co., Corn Exch, Minneapolis,
Minn.
Bryan, E. A. Co. (Steel), 1st Nat'l Bank bldg,
Chicago, Ill. Works: Harvey, Ill.
Buege, L., Boston Bldg., Minneapolis, Minn.
Campbell, J. A. & Son, Lincoln, Neb.
Chapman, A. F. & Co., Prudential bldg, Buffalo,
N. Y.
Cleveland, W. S., Corn Ex. bldg., Minneapolis,
Minn.
Fritsch, Francis Mfg. Co., 223 W McKick av,
Cincinnati, O.
Gresser, Wilhelm Engineering Co., 11 B'way,
New York
Grotenroth, Fred, 111 W. Water, Milwaukee,
Wis.

Heidenreich, E. Lee, 9 Jackson boul, Chicago,
Ill.
Lind, John Co., Minneapolis, Minn.

Macdonald Engineering Co., Monadnock blk,
Chicago, Ill.
Metcalf, John S. Co., Woman's Temple, Chi-
cago, Ill.

MINNEAPOLIS STEEL & MACHINERY
Co., Minneapolis, Minn. (See adv. index,
& branch offices, end of book)

Modern Warehouse Elevator Co., Colfax, Wash.
Seely, Son & Co., Fremont, Neb.

Steel Storage & Elevator Construction Co.
(Steel), Prudential bldg, Buffalo, N. Y.
STEWART, JAS. & CO., Lincoln
Trust bldg, St. Louis, Mo. (For complete list
of branch offices, see end of book)

Younglove & Boggess Co., Mason City, Iowa.

Grain Elevators (Portable)

Camp Bros. & Co. ("Camp"), Metamora, Ill.
Engel, J. A. & Co. ("Dueringer"), Peoria, Ill.
King & Hamilton Co. ("American"), Ohawa, Ill.
Marseilles Mfg. Co. ("Marseilles"), Marseilles,
Ill.

Meadows Mfg. Co. ("Rocke"), Meadows, Ill.
Portable Elevator Mfg. Co. ("Little Giant"),
Bloomington, Ill.

Schroeder Bros. ("Schroeder's"), Minier, Ill.
Smith, T. & H. & Co. ("The Only"), Pekin, Ill.

Steele, Ben. Weigher Co., Peoria, Ill.
Warner Elevator Mfg. Co. ("Dakota," "Gopher,"
"North Star," "Warner"), Warner, Ill.

Wenzelmann Mfg. Co. ("Wenzelmann"), Gales-
burg, Ill.

Granite (Black)

Peirce, John Co., 90 West, New York

**When writing to firms listed
in this book please mention
HENDRICKS'
COMMERCIAL REGISTER**



**IF YOU FAIL TO FIND
IN THIS**

**COMMERCIAL
REGISTER.**

**THAT WHICH YOU ARE
LOOKING FOR**

WRITE US—

**Enclosing a two cent stamp for reply and we will at
once use our best endeavor to supply the informa-
tion desired, free of charge.**

S. E. HENDRICKS CO.,

74 Lafayette Street, [Corner Franklin,] NEW YORK.



PICTON ISLAND RED GRANITE CO.

320 FIFTH AVENUE, NEW YORK

Quarries on - - - - - Picton Island, St. Lawrence River, near Clayton, N. Y.



PICTON ISLAND QUARRY LOADING DOCK

Recent deliveries include Granite for the American Museum of Natural History in New York.—Twenty-five polished columns for the Maryland Institute Building of Baltimore.—A National Bank Building.—Large Private Residence, Etc.

RED AND PINK GRANITES

DIMENSION SIZES IN THE ROUGH.

Beautiful Granites for
MONUMENTAL
DECORATIVE and
BUILDING PURPOSES

Modern Equipment.
Splendid Shipping Facilities.
Send Specifications for Prices.

Hendricks'



Commercial Register..

Is consulted by more than 100,000 Buyers annually.

If you want to reach a Buyer advertise in this Book.

No Book more frequently consulted regarding the purchasing
of materials, machinery or supplies.

Used by the Purchasing Department of every large concern
in the United States.

Granite Building Work (Cutters & Contractors)

(These names are duplicated under the head of Granite Producers, Workers & Dealers)

Amberg Granite Co., Amberg, Wis., & 1041 Marquette hldg, Chicago, Ill.

Anderson, Ola, Concord, N. H.

Benvenue Granite Co., 41 Park Row, New York

Birney, R. C. & Co., 1215 Filbert, Phila., Pa.

Bishop, J. W. Co., Worcester, Mass., Boston, Mass., Providence, R. I.

Bodwell Granite Co., Rockland, Me.

BOOTH BROS. & HURRICANE ISLE Granite Co., 207 B'way, New York

Cross Bros., Northfield, Vt., & 27 E 21st, New York

ELLIS, E. B. GRANITE CO., North-field, Vt. (See adv. index, end of book)

Excelsior Granite Co., Heath Springs, S. C.

FLETCHER, H. E. & CO. (Mauso-leums, Vaults, etc.), West Chelmsford, Mass. (See adv. index & branch offices, end of book)

Fletcher & Lahey (Mausoleums, Vaults, etc.), West Chelmsford, Mass.

Flint Granite Co., 1133 B'way, N. Y.

Flynt, W. N. Granite Co., Monson, Mass.

Georgia Quincy Granite Co., Macon, Ga.

Goss, Jno.-L., Stonington, Me.

Granite Railway Co., Quincy, Mass.

Gray, Wm. & Sons, 30th & Walnut, Phila., Pa.

GUILFORD & WATERSVILLE GRAN-ite Co., 3 E. Lexington, Baltimore, Md. (See adv. on following page)

Hallowell Granite Works, Hallowell, Me., & 53 State, Boston

JONES BROS. CO. (Monumental Work a Specialty), Boston, Mass. (See adv. index, end of book)

Ladd, F. M. & Co., New London, Conn.

Lahey & O'Donnell, Lawrence, Mass.

LEOPOLD, J. & CO., 18 B'way, New York. (See adv. index & branch offices, end of book)

McClenahan Granite Co., Port Deposit, Md.

McDonnell & Sons, 858 Main, Buffalo, N. Y.

Maine Red Granite Co., Red Beach, Me.

Maine & New Hampshire Granite Co., Portland, Me.

Maryland Granite Co., Baltimore, Md.

Mitchell, Geo. H., First National Bank bldg, Chicago, Ill.

Mount Waldo Granite Works, Frankfort, Me., & 277 B'way, N. Y.

NEW ENGLAND GRANITE WORKS. Westerly, R. I. (See adv. index & branch offices, end of book)

Norcross Bros. Co., Worcester, Mass.

North Carolina Granite Corp., Mt. Airy, N. C.

Peirce, Jno. Co., 90 West, New York.

PICTON ISLAND RED GRANITE CO. (Pink & Red), 320 5th av, New York. (See adv. index, end of book)

Pigeon Hill Granite Co., Rockport, Mass.

Pochuck Granite Co., 26 Court, Brooklyn, N. Y. Quarries at Pine Island, N. Y.

Redstone Granite Co., Redstone, N. H.

ROCKPORT GRANITE CO., Rockport, Mass. (See adv. index & branch offices, end of book)

Rodgers, John C., Stonington, Me. of hook)

Rogers, L. N. Granite Co., West Quincy, Mass.

Ryan & Parker, Stonington, Me.

St. Cloud Granite Works, St. Cloud, Minn.

Schilling Co., 43 Eagle, Albany, N. Y.

Schneider Granite Co., Fullerton bldg., St. Swenson, Jno, Concord, N. H. Louis, Mo.

Troy White Granite Co., Troy, N. H. Worcester, Mass.

Venable Bros., 804 Temple Ct, Atlanta, Ga.

Webb Granite & Construction Co., Worcester, Mass. Quarries, Marlborough, N. H. & Fitzwilliam, N. H.

Webb Pink Granite Co., Quarries "Milford Pink," Worcester, Mass.

WEGE, CHAS. MARBLE & TILE Co. (Inc.), 375 W Rich, Columbus, O. (See adv. index, end of book)

Wells, Lamson & Co., Barre, Vt.

Wetmore & Morse Granite So. (Rough Barre Granite), Montpelier, Vt.

White Granite Co., Long Island City, N. Y. Quarries, Blue Hill, Me.

Windsor Green Granite Co., Worcester, Mass. & Windsor, Vt.

Winnboro Granite Co., Rion, S. C.

Woodbury Granite Works, Hardwick, Vt.

Granite Columns (Polished)

Blake, Chas. G. & Co., 184 La Salle, Chicago.

Bodwell Granite Co., Rockland, Me. Ill.

BOOTH BROS. & HURRICANE ISLE Granite Co., 207 B'way, New York. (See adv. index, end of book)

Bruce, George F., 2221 Rutger

Maine Red Granite Co., Red Beach, Me.

FLETCHER, H. E. & CO., West Chelmsford, Mass. (See adv. index & branch offices, end of hook)

Fletcher & Lahey, West Chelmsford, Mass.

Foster & Hosler, 415 Wabash av., Chicago, Ill.

Granite Railway Co., Quincy, Mass.

Hallowell Granite Works, Hallowell, Me.

JONES BROS. CO., 161 Summer, Bos-ton, Mass. (See adv. index, end of hook)

NEW ENGLAND GRANITE WORKS, Westerly, R. I. (See adv. index & branch offices, end of hook)

Norcross Bros. Co., Worcester, Mass.

PICTON ISLAND RED GRANITE CO. (Pink & Red), 320 5th av, New York. (See adv. index, end of hook)

Richards John R., Quincy, Mass.

ROCKPORT GRANITE CO., Rockport, Mass. (See adv. index & branch offices, end of hook)

St. Cloud Granite Works, St. Cloud, Minn.

Simmers & Campbell (Turned & Polished), St. Cloud, Minn.

Wells, Lamson & Co., Barre, Vt.

White Granite Co., West av, Long Island City, N. Y. Quarries, Blue Hill, Me.

Woodbury Granite Co., Hardwick, Vt.

Granite (Crushed)

(See Stone Crushed; also Trap Rock.)

Granite (Ligonier)

Booth & Flinn, Pittsburg, Pa.

Granite Mausoleum & Vault Builders

(See Granite Building Work, Cutters and Contractors.)

Granite Meal

Donovan, Jno. J., 203 B'way, New York

McClenahan Bros. Granite Co., Port Deposit, Md.

Granite (Monumental)

PICTON ISLAND RED GRANITE CO. (Pink & Red), 320 5th av, New York. (See adv. index, end of hook)

Granite (Monumental Work)

(See Granite Building Work, Cutters & Contractors; also Barre, Vt.; Quincy, Mass., & Westerly, R. I., in Granite Producers, Workers & Dealers)

Granite Polishing Machines

(See Machines, Stone Polishing.)

*Granite (Porphyry Syenite & Labradorite)

BOCKMAN, G. E., 1265-9 B'way, New York. (See adv. index, end of hook)

Granite Producers (Pink)

Balfour Quarry Co., Asheville, N. C.

BOOTH BROS. & HURRICANE ISLE Granite Co., 207 B'way, New York

FLETCHER, H. E. & CO., West Chelmsford, Mass. (See adv. index & branch offices, end of hook)

Fletcher & Lahey, West Chelmsford, Mass.

Geddis & Serrie Stone Co., Continental hldg, Denver, Col.

NEW ENGLAND GRANITE WORKS. Westerly, R. I. (See adv. index, end of hook)

Norcross Bros. Co. (Milford Pink), Worcester, Mass.

PICTON ISLAND RED GRANITE CO. (also Red), 320 5th av, New York. (See adv. index, end of hook)

Pochuck Granite Co., 26 Court, Brooklyn, N. Y. Quarries at Pine Island, N. Y.

Stevens Granite Co. (Milford), Milford, N. H.

Sweeney Granite Works, Westerly, R. I.

Webb Pink Granite Co., Worcester, Mass.

Wyatt, Marie Louisa, Salisbury, N. C.

Granite Producers (Red)

Bodwell Granite Co., Rockland, Me.

BOOTH BROS. & HURRICANE ISLE Granite Co., 207 B'way, New York, & Rockland, Me. (See adv. index, end of hook)

Bruce, George F., 2221 Rutger

Maine Red Granite Co., Red Beach, Me.

NEW ENGLAND GRANITE WORKS, (Westerly Red, etc.), Westerly, R. I. (See adv. index & branch offices, end of hook)

Norcross Bros. Co. (Stony Creek, etc.), Worcester, Mass.

Pierce John Co., 90 West, New York

PICTON ISLAND RED GRANITE CO. (also Pink), 320 5th av, New York. (See adv. index, end of hook)

ROCKPORT GRANITE CO., Rockport, Mass. (See adv. index & branch offices, end of hook)

Smith Granite Co., Westerly, R. I. of hook)

Sweeney Granite Works, Westerly, R. I.

Granite Producers, Workers & Dealers

(Those marked with the * or † have quarries.)

All other Granite classifications are duplicates of this list.

(See also Granite Building Work, Cutters & Contractors; also Granite Columbus, Polished; also Marble Producers; also Stone Producers, Workers & Dealers)

ARKANSAS.

LITTLE ROCK—*Twen. Cen. Granite Co. (Gray, Blue & Green)

CALIFORNIA.

EXETER—*Rocky Point Granite Works

LINCOLN—*Bryne Bros.

LOOMIS—*Carlaw Bros.

NEVADA CITY—*Bridges, E. D.

OAKLAND—American Granite & Marble Works

PENRYN—Flippins, A. B. (Polishing)

*Griffith, David

*Schwallenberg, G.

RIVERSIDE—Riverside Granite & Marble Wks.

ROCKLIN—*Copp, R. H.

*Hipplkha, H.

*Jacobson & Co.

*Johnson, Mat

*Johnson, Peter

*Kestl, O.

*Mantylla, John

*Waters, A.

*Wickman, A. O.

SACRAMENTO—*Carlaw Bros., 10th & R

Carroll & Douglas

Luce & Glover

SAN DIEGO—*Simpson, Pirnie Granite Co.

SAN FRANCISCO—Beck, Frank J., 791 San Jos

Carroll, M. T. & Sons Co., 2021 Turk av.

Conuth Edmund, 127 Golden Gate av.

Hawthorne, Chas. R., 13 Henderson av.

Lloyd, H. J., Harrison bet 13th & 14th

McGilvray Stone Co., Townsend nr 7th

Maino, Thos., 1219 Market

Mathews, Geo. S., Funk opp Masonic Ceme-

Mullaney, Patrick D., 948 Guerrero tery

Raymond Granite Co., 10th & Division

*Rocklin Granite Co., 40 New Montgomery

Rodd, Chas. H., 1712 Central av

Seregni & Bernieri, Flood Bldg.

Sheerin, Daniel & Sons, c Broderick & Ellie

SAN JOSE—*Western Granite and Marble Co.

COLORADO.

DENVER—Bayha & Bohm, 1150 Champa

Bills Bros., Symes blk

*Denver Marble & Granite Co., 1224 Lawrence

Geddis & Seerie Stone Co., Continental hldg

Rauh, M., 3601 Blake

CONNECTICUT.

ANSONIA—*Wooster, C. B.

EAST NEW LONDON—Sherwood Co.

GREENWICH—*Ritch Contracting & Stone Co.

GROTON—*Reinhard Granite Co.

*Salter J. & Son

GUILFORD—Hanna, Wm.

HADDAM—*Haddam Granite Co.

LEETE ISLAND—Beattie, John.

Dolan, Richard

MERIDEN—Luby, Wm. J.

Meriden Monumental Works

MIDDLETOWN—Fox-Becker Granite Co.

*Haddam Granite Co.

MILLSTONE—Gardner, Henry

Packey & Manwaring

Rosi, Frank M.

NEW BRITAIN—Smith, T. C.

NEW HAVEN—Bowdep, Thos., 139 Sylvan av

Kaehle, Wm., 6 Hamilton

NEW LONDON—BOOTH BROS. &

Hurricane Isle Granite Co. (Red, Gray, White, etc.). (See adv. index, end of hook)

Buckley, Michael D.
 *D'Avignon, Francis P.
 *Kopp, Jacob K.
 Ladd, F. M. Co.
 *Ryan, John J.
 Sayle, Thos., Jr.
NIANTIC—(See Waterford)
NORWALK—Bates, Jno. S.
 Stevens, M. W.
NORWICH—Kuebler, Chas. A.
ONECO—*Norcross Bros. Co. (Gray, Red & Green)
ROXBURY STATION—*Mine Hill Quarry Co.
STERLING—*Boswell, J. W.
 *Gibson, O. F.
STONY CREEK—Beattie, J. (Est. of).
 Bradford Granite Co.
 *Norcross Bros. Co. (Gray, Red & Green)
 Stony Creek Red Granite Co.
WATERFORD—***BOOTH BROS.** &
 Hurricane Isle Granite Co. (See adv. index, end of book)
 *Millstone Granite Co.
 *Rose, F. M. & Son
 Waterford Steam Granite Works

DELAWARE.

WILMINGTON—*Battlefield Granite Co.

DISTRICT OF COLUMBIA.

WASHINGTON—*Acker & Co., N. Capitol & E, N. W.
 Falvey, Michael J., Pa. av c 21st, N. W.
 Rook Granite Co., Eckington place

GEORGIA.

ATLANTA—Atlantic Granite Works
 Cherokee Marble & Granite Works
 Crouch, G. G.
 Georgia Granite Co.
 McWhirter Stone Co.
 Ramsey-Brisben Stone Co., Austell bldg
 *Venable Bros., Temple Court
 Walsh & McAlpin
ELBERTON—*Davis, T. J.
 Elberton Granite Co.
 *Long Blue Granite Co.
 *Swift Granite Co.
LITHONIA—*Bishop, W. J. & Sons
 *Southern Granite Co.
MACON—*Georgia Quincy Granite Co.
SAVANNAH—Dixie Stone Co.
STONE MOUNTAIN—Hill, Carl T.
 McCurdy & Thompson
 Venable Bros.
TATE—Sickles, Geo. B. & Co.

ILLINOIS.

BLOOMINGTON—Higgins-Jung-Kleiman Co.
 Moore, J. K.
CHICAGO—*Amberg Granite Co., 438 Fulton
 Anderson, J. H. Granite Co. (dealers), 94 La Salle
 Arnold Granite Co., 138 Washington
 Bannerman Granite Co., 100 Wash'n
 Barclay Bros., 79 Dearborn
 Blake, Chas. G. & Co., 184 La Salle
 *Bodwell, John F., Western Union bldg
 Burke, Robt. E. & Co., 163 Randolph
 Davidson Bros. Marble Co., ft. of Orleans
 Dolese & Shepard Co., 184 La Salle
 Elsmere Granite Co., 947 N Spaulding av
 Edwards & Ward, Fullerton av Bridge
 Fenn, C. E. & Co. (Wholesalers), 164 Dearborn
 Gall, Chas. H., 79 Dearborn

Gall & Co., N Clark, c Graceland av
 Laechle & Grotefeld, 84 La Salle
 MacLane, Edw., 36 La Salle
 Marr & Gordon, 138 Wash'n
 Mitchell, Geo. H., First National Bank bldg
 Montello Granite Co., 59 Clark
 Newall, Jos. & Co., 184 La Salle
 O'Neill, C. J., 120 Randolph
 *Pierce, John Co., Western Union bldg
 *Pleasant River Granite Co., 184 La Salle
 Portland Granite Co., 172 Wash
 Prout Bros., 36 LaSalle
 Waushara Granite Co., 172 Wash'n
 Western Consolidated Granite Co., 138 Wash'n
 Western Granite Supply Co., Chamber of Commerce bldg

KANKAKEE—*Brayton & Kerr

INDIANA

BEDFORD—Bedford Steam Stone Works
INDIANAPOLIS—Diener, August, 449 E Wash'n
LOGANSPOUT—Powell, Schuyler

MAINE.

ADDISON—Pleasant River Granite Co.
BANGOR—*Bangor Granite Co.
 *Queen City Granite Co.
BIDDEFORD—*Howe, L. B. & Co.
BLACK ISLAND—Dutton, J. E. & Co.
BLUE HILL—*Chase Granite Co.
 *White Granite Co.
CALAIS—Butler, J. H.
 Douglas Bros.
 N. B. Red Granite Co.
FRANKFORT—*Mt. Waldo Granite Works
 *Pierce, Hayward
FRANKLIN—Blaisdell, W. B. & Co.
FREEPORT—*Freeport Granite Co.
FRYSBURG—Osgood, J. L.
HALLOWELL—*Hallowell Granite Works
 *Tayntor, C. E. & Co.
 Tregambon, Wm.
HIGH ISLAND—*William Grey & Sons
HURRICANE ISLE—***BOOTH BROS.** &
 Hurricane Isle Granite Co. (See adv. index, end of book)
JONESBORO—*Bodwell Granite Co.
 *Booth Bros. & Hurricane Isle Granite Co.
MOUNT DESERT—Allen Granite Co.
 Campbell & MacComber
MOUNT WALDO—*Mt. Waldo Granite Works
NORTHEAST HARBOR—Graves Bros.
NORTH JAY—Emery, Frank A.
 *Maine & New Hampshire Granite Corp.
PORTLAND—Hawkes Bros., ft of Wilmot
 Leighton, Geo. W. & Co., 327 Stevens av
 *Maine & New Hampshire Granite Corp.
 Mannix Bros., 84 Hanover
 Union Granite Co., ft. of Wilmot
RED BEACH—*Maine Red Granite Co.
 Mingo & Bailey
ROCKLAND—Bodwell Granite Co. (Red & Gray)
 *Booth Bros. & Hurricane Isle Granite Co.
 Red, Grey, White, etc.)
ST. GEORGE—*Booth Bros. & Hurricane Isle Granite Co.
SOUTH THOMASTON—Bassick, N. C. & Sons
 Ingram, John
SPRUCE HEAD—*Bodwell Granite Co.
STONINGTON—Benvenue Granite Co.
 *Goss, John L.
 *Rodgers, John C. & Son
 *Ryan & Parker
SULLIVAN—*Dunbar Bros.
VINOL HAVEN—***BOOTH BROS.** &
 Hurricane Isle Granite Co. (See adv. index, end of book)

WATERVILLE—*Waterville Granite Co.
WEST FRANKLIN—*Bradbury, Frank & Son

MARYLAND.

BALTIMORE—Berry & Tracey, Hamburg & Ohio
 Bevan & Sons, Frisby & Belt Line R R
 Gault, Wm. A. & Son, 9 E Lex
 Graham, Frank F., Calhoun & B & O R R
 ***GUILFORD & WALTERSVILLE**
 Granite Co. (Dimension and Building). 3
 E Lexington. (See adv. below)
 Hilgartner Marble Co., Sharpe & Ostend
 Kelly & Beardsley, 920 E Lex
 *Leonard, Dan't A., Builders' Exch. bldg
 McFrederick, A. J., 813 Harlem av
 *Maryland Granite Co.
 May, August C., 884 W Balto.
 Merkel, Henry, 985 Fdk av
 Mezger, G. & Son, 1032 W Balto
 Maltz, Henry L, 758 W Baltimore
 Peat, Wm. & Co., 718 Forrest
PETERSBURG GRANITE CO., 3
 Lexington
 Rullman & Wilson, Lex & Mt. Royal avs
 Russell, Geo. E., North av & Alsquith
 Schaeffer, Frank J., 973 Frederick av
 Schwartz, Jno. C., 704 N. Caroline
ELLICOTT CITY—*Weber, Albert
GUILFORD—*Guilford & Waltersville Granite Co.
 *Maryland Granite Co.
WOODSTOCK—*Peach, Frank & Co.

MASSACHUSETTS.

BOSTON—Anderson Bros. (Importers of Scotch Granite), J. P.
 Barker, Wm. P., 166 Devonshire
 Clements, Chas. (Importer, Scotch), 372
 Boylston
 *Cook & Watkins (Monumental Wholesale),
 221 Columbus av
 Derry, Chas. T. & Co. (also Contractors), 68
 Devonshire
 Elwell, L. M. (Dealer), 47 Winter
 ***FLETCHER, H. E. & CO. (Gray,**
 Pink & White), 166 Devonshire. (See adv. index, end of book)
 Gundal, Peter & Co., 380 Ashland, Rox
 *Hallowell Granite Works, 53 State
 Harrington, John, 95 Milk
JONES BROS. CO., 161 Summer,
 (See adv. index, end of book)
 Magner, David, 3720 Wash, J. P.
 *Maine Coast Granite Co., 4 P. O. sq
 Milne & Chalmers, 108 Summer
 *New England Granite Co., 50 Congress
 *Norcross Bros. Co. (Grey, Red & Green
 Quarries at Milford, Mass.; Stony Creek,
 Conn.; Windsor, Vt., & Oneco, Conn.), 106
 Tremont bldg
 *Pigeon Hill Granite Co., 166 Devonshire
 Richards, Jno. R. Granite Co., 131 Tremont
 Ricker, E., Son & Co., 166 Devonshire
 ***ROCKPORT GRANITE CO., 31**
 State. (See adv. index, end of book)
 Ross, Peter Co., 19 Congress
 Sweatt & Gould, 166 Devonshire
 Torrey & Co., 61 Beverly
 Van Amringe Granite Co., 172 Tremont
 Walker, A. L. & Co., 3636 Wash'n
 *Westerly Granite Co., 335 Boylston
 Willson, E. C., 221 Columbus av
CAMBRIDGE—McDonald, Alex & Son
CHELMSFORD—Carken, Perley
 Marinell & Brown

GUILFORD AND WALTERSVILLE GRANITE CO.

(Woodstock, Md., and Guilford, Md., Granite)

PETERSBURG GRANITE CO.

(Dinwiddie, Va., Granite)

FLINT AND FELDSPAR, ROUGH OR GROUND

ROUGH AND CUT GRANITE FOR ALL PURPOSES

BELGIAN BLOCKS, CRUSHED STONE, &c.

Our Granite has been used in Library for Congress and National Museum at Washington, D. C., Guardian Trust Building, Baltimore, Md., and many Bank and Public Buildings throughout the Country, also in Monumental Work of every description

MAIN OFFICE: No. 3 EAST LEXINGTON STREET

BALTIMORE, MD.



WACHUSETT DAM, CLINTON, MASS.

FROM QUARRIES OF

H. E. Fletcher & Co.

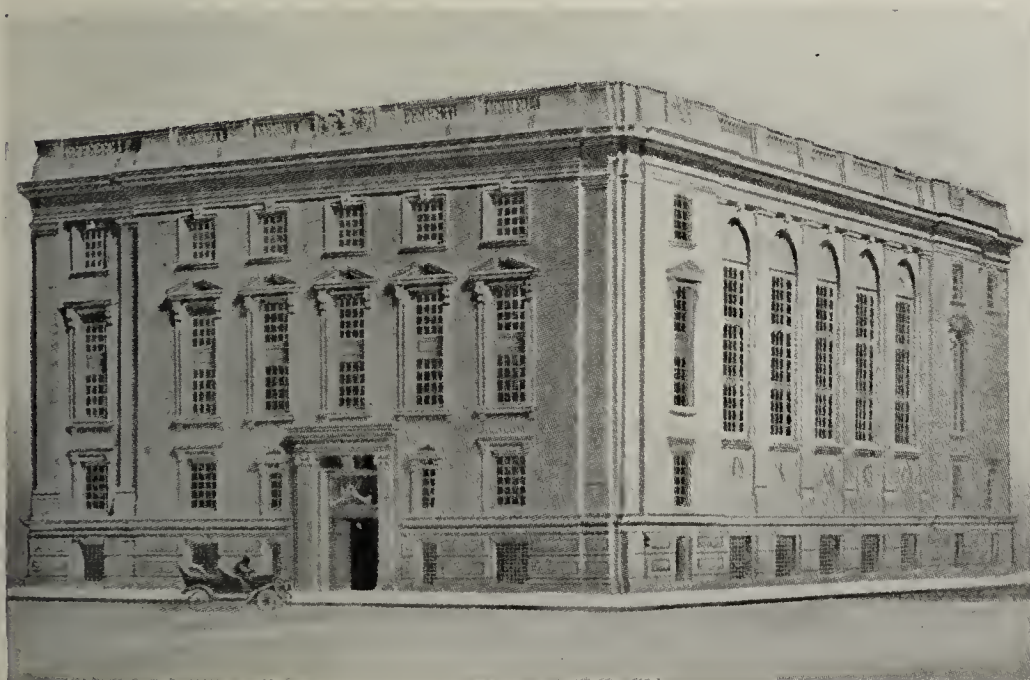
West Chelmsford, Mass.

.. Granite ..

Buildings

Street Work

Mausoleums



FIRST NATIONAL BANK BUILDING, BOSTON, MASS.

QUARRIES AT

CONWAY, N. H.

PINK GRANITE

MADISON, N. H.

PINK GRANITE

MILFORD, N. H.

GREY GRANITE

WEST CHELMSFORD,
MASS.,

WHITE GRANITE



Jones Bros. Co.

Quarry Owners
— and —
Manufacturers

BARRE, VT. BOSTON, MASS.



Mausoleum and Monumental

... W O R K ...

CORRESPONDENCE SOLICITED

TELEPHONE CONNECTIONS

CHAS. S. ROGERS, Treasurer and General Manager

ROCKPORT GRANITE COMPANY.

DEALERS IN

ROUGH, HAMMERED
AND POLISHED

GRANITE,

RED, GREEN AND
GRAY

PAVING BLOCKS OF ALL KINDS.

BROKEN STONE A SPECIALTY.

MAIN OFFICE, - - - ROCKPORT, MASS.

Branch Offices—BOSTON, 31 State Street ; BAY VIEW, MASS.; Represented in New York by F. E. Foster, 21 Park Row.
Quarries—Rockport, Mass.; Pigeon Cove, Mass.; Bay View, Mass. Red Granite Quarries, Jonesport, Me.
Member Master Builders' Association, Boston. Estimates freely given.

BETHEL WHITE GRANITE.

THE MOST BEAUTIFUL STONE IN THE WORLD.

We are just completing the granite work for the new Union Terminal Station at Washington, and the National Museum, two of the finest and largest building contracts ever let, for which buildings BETHEL WHITE GRANITE was selected in preference to all granites and marbles.

For monumental and mausoleum work it has no equal, and we will be in the market for this class of work in the Fall of 1907.

E. B. ELLIS GRANITE COMPANY,

Will sell stock F.O.B. Quarry or cut to any design.

NORTHFIELD AND BETHEL, VERMONT.

CAPE ANN—*Cape Ann Granite Co.
 †Pigeon Hill Granite Co.
 †Rockport Granite Co.
 CHESTER—*Hudson & Chester Granite Co.
 CLINTON—Gibson's Monumental Works
 COLD SPRING—*Ward, John E.
 EAST MILTON—*Maguire & O'Heron
 FALL RIVER—*Beattie, Wm. (Dealer & Contractor)
 *Picard, Israel (also Contractor)
 *Wilmot, J. B.
 FITCHBURG—Fitchburg Marble & Granite Co.
 Godbeer, Henry
 *Litchfield, Orin E.
 *McCaulliff, F. A.
 McCaulliff, Jno.
 McNally, Jno.
 O'Connor, D. Granite Works
 *Shea, Richard T., Rollstone Hill
 GARDNER—Gerry, Chas. H.
 GRANITEVILLE—*Hildrith, Herbert V.
 *Palmer, L. P.
 *Wright, Hammett D.
 HAVERHILL—*Fletcher, H. E. & Co. (Grey, Pink & White)
 *Fletcher & Lahey (Grey, Pink & White)
 LANESVILLE—Barker, Wm. P.
 *Cheves, Wm. R.
 LAWRENCE—Lahey & O'Donnell
 Lawrence Granite Co.
 LINWOOD—*Blanchard Bros. Granite Co.
 LYNN—Blethen, Andrew R.
 LYNNFIELD—*Robin Rock Granite Co.
 MILFORD—Carroll Bros.
 Fan, C. L.
 Milford Quarry Co.
 *Norcross Bros. Co. (Gray, Red & Green)
 Ross-Hogan Granite Co.
 †Ross, Peter Co.
 *Webb Pink Granite Co.
 MONSON—*Flynt, W. N. & Sons
 NATICK—Whalen, Jno. B.
 NORTH CHELMSFORD—*De Carterett, John
 PALMER—*Monson Granite Co.
 PIGEON COVE—*Cleaves, Chas. H.
 QUINCY—Aberdeen Granite Works, West Quincy
 Aberogven Monumental Works, West Quincy
 Adrian, H. W., South Quincy
 Badger Bros., West Quincy
 Ballou, J. C.
 Barnicoat, Fred, South Quincy
 Birnie & Diack, South Quincy
 Bishop, Alfred, South Quincy
 Bishop, Charles, South Quincy
 Bishop, Joseph, South Quincy
 Bishop, Thos. & Co., South Quincy
 Bizozero, E. & Co., West Quincy
 Blue Hill Granite Co.
 Burke, Thos. F. & Bros., West Quincy
 Burns & Co., South Quincy
 Calahan, Wm.
 Carey Bros., West Quincy
 Cashman, John, West Quincy
 Casna & Cicconi, South Quincy
 Clark & Pearce, South Quincy
 Cole, John, South Quincy
 Collins, Thos. & Sons, South Quincy
 Columbia Granite Works, South Quincy
 Cook, M. E. & Co., South Quincy
 Cormack, P. H., West Quincy
 Craig, F. & Co., South Quincy
 Craig, Jas. & Co., South Quincy
 Deacon Bros., South Quincy
 Deacon, Walter, South Quincy
 Deane, A. M. & Co., South Quincy
 Desmond J. F., West Quincy
 DiBona Bros., West Quincy
 Djerf & Winquist, West Quincy
 Eagle Polishing Co., South Quincy
 Elcock & Sons, West Quincy
 Empire Polishing Co., South Quincy
 Fanning, P., West Quincy
 Ferdinand, Frank & Co.
 Field & Wild
 Fitzgerald P. T., South Quincy
 Fuller, Foley & Co., West Quincy
 Galvin Granite Co.
 Glencoe Granite Co., West Quincy
 Globe Granite Co., West Quincy
 Granite Railway Co., West Quincy
 Hardwick, C. H. & Co.
 Howle & Son, South Quincy
 Hughes, P. F. & Son, West Quincy
 Hughes & Johnson
 Igo, Jno. & Co., South Quincy
 Joss Bros. Co.
 Kavanagh Bros. & Co., South Quincy
 Kemp A. L. R., South Quincy
 Kemp & Mundie, South Quincy
 Lavers Granite Co., West Quincy
 Lawry & Cameron, South Quincy
 LeClair Bros., West Quincy
 Long & Saunders, South Quincy

Lyons Granite Co.
 Maguire & O'Heron, East Milton
 Malcolm, James, South Quincy
 Malnati, A., South Quincy
 Mannex, T. F., West Quincy
 Marnock, A. & Co., South Quincy
 McDonald, M. A. & Co.
 McDonnell Bros., South Quincy
 McDonnell & Kelly, South Quincy
 McDonnell & Sons
 McGillvary & Jones, South Quincy
 McGrath Bros., South Quincy
 McIntosh & Son, South Quincy
 McLeod, W. J.
 Merry Mount Granite Co. South Quincy
 Miller, J. L., South Quincy
 Milne & Chalmers, South Quincy
 Milne & Hector, South Quincy
 Mitchell Granite Co., South Quincy
 Mitchell, Thos., South Quincy
 Monohan, M., West Quincy
 Mount Pleasant Quarry Co., Milton
 Murray Bros.
 Nicoll's Granite Works, South Quincy
 Prout Bros. Granite Co., South Quincy
 Qualey, J. R. Granite Co., South Quincy
 Quincy Granite Quarries Co.
 Reed & Verdret, South Quincy
 Richards, J. R., South Quincy
 Richards & Richards, South Quincy
 Shea, William & Son, West Quincy
 Smith, Wm. A., South Quincy
 Smith & Marshall, South Quincy
 Souden & Morrison, South Quincy
 Spargo, William T., South Quincy
 Swingle, J. S.
 Swithin Bros. Granite Co.
 Thompson, John & Sons
 Tocci, T. & Sons, West Quincy
 Townsend & Clements, Boston
 Vogel, Adam & Son, West Quincy
 Vogel, Joseph H., South Quincy
 White, James N. & Sons, West Quincy
 Wyllie & Mutch, South Quincy
 ROCKPORT—*Lahey, Thos. (Dark Gray)
 †ROCKPORT GRANITE CO. (See adv. index, & branch offices, end of book)
 SPRINGFIELD—Cook, Wm. F., 182 State
 *McGregory & Casman, 531 Main
 *Stone, A. D. & Co., 233 Liberty
 STONEHAM—Perry, Bennett & Son
 UXBRIDGE—*Blanchard Bros. Granite Co.
 WAKEFIELD—Ames & Snow
 WEST CHELMSFORD—*FLETCHER, H. E. & Co. (Grey, Pink & White) (See adv. index, end of book)
 *Fletcher & Lahey (Grey, Pink & White)
 WESTFORD—*Lahey, Thos.
 WEST QUINCY—Mannex, T. F.
 WHITINSVILLE—*Blanchard, Geo. M.
 WORCESTER—*Ballard Granite Quarries
 Bishop, J. W. Co., 107 Foster
 Brosman, Thos.
 Davis Bros.
 Kirby & Co.
 Kittredge, J. J.
 Loughlin & Crowley
 *Norcross Bros. Co. (Grey, Red & Green Quarries at Milford, Mass; Stony Creek, Conn.; Windsor, Vt., & Oneco, Conn.), 12 O'Toole, Austin & Sons E. Worcester
 Phillips, J. & F.
 St. Germain, Chas.
 †Troy White Granite Co., Quarries: Troy, N. H.
 *Webb Granite & Construction Co., Quarries: Marlborough, N. H., & Fitzwilliam, N. H.
 *Webb Pink Granite Co., Quarries: Milford, Wilson, Martin, 174 Prescott Mass.
 †Windsor Green Granite Co., 10 E Worcester

MINNESOTA.

JASPER—*Rowe Bros.
 LITTLE FALLS—Davidson Granite Co.
 MINNEAPOLIS—Drake Mantel Tile Co., 510 2d av, S
 Jones, A. P., B'k of Com bldg
 Juve, H. O., 714 Cedar av
 Lakewood Granite & Marble Works, 3529 Hennepin av
 Minneapolis Granite & Marble Works, 411 ST. CLOUD—*Brooks Granite Co. W 28th
 *Holes Bros.
 Noren, L. E. & Son
 *St. Cloud Granite Works
 *Simmers & Campbell

MISSOURI.

GRANITEVILLE—Schneider Granite Co.
 *Syenite Granite Co.
 KANSAS CITY—Rice, Marshall H., 909 Balti-more av
 Woodlawn Granite Co., 4509 E 15th

KNOBLICK—*Milne & Gordon Granite Quarry
 ST. JOSEPH—Abercrombie Stone Co., 4th & Angelique

Pfeiffer Stone Co., 618 S 4th
 ST. LOUIS—Breen, Jno., 7301 Flarissant av
 Bruce, Geo. F. (Red), 2221 Rutger
 Eyermann, G. Jr., & Bro., 1216 S Grand av
 Filsinger & Fruth, 1617 Wash av
 Follenius, R. H., 508 Chouteau av
 Hodges, Wm. R., Laclede bldg
 McCarthy, Jno. H., 6457 Flarissant av
 McCormick, Patrick, 2712 Walnut
 Marquardt, H. Marble & Granite Co., 1212 Clark av
 *Milne & Gordon, Jeff av & Mo P R R
 Missouri Granite & Construction Co., 3410 Gratiot
 *Schneider Granite Co., Fullerton bldg
 *Syenite Granite Co., 125 S 4th
 *Twen Cen Granite Co. (Gray, Blue & Green), 421 Olive
 Western Granite Co., 105 N 7th

NEW HAMPSHIRE.

ALBANY—*Lahey, Thos. (Dark, White or Gray)
 ALLENTOWN—(See Suncook)
 BROOKLINE—*O'Rourke Bros.
 CONCORD—*Anderson, Oia
 Clancy & Co.
 Clark, F. R.
 Collins, B. J. Co.
 Concord Granite Co.
 Crote, M. M.
 Crowley & Quinn
 Cummings Bros.
 Cushing, Henry E.
 Dee, Thomas
 Dunstam, Thos.
 Flood, J. H.
 Foley Bros.
 *Fox, Thomas
 Gannon, M. G. & Son
 Grant, A. & Co.
 Harrison & Duffy
 *Henneberry, Jno.
 Hosking, J. R.
 Howard, Wm.
 Hyland Granite Co.
 Lougee, W. S. & Co.
 McAlpine, A. G. & Co
 McGuire, Wm.
 Nawn, Thomas
 *NEW ENGLAND GRANITE WKS. (See adv. index, end of book)
 New Hampshire Granite Co.
 *Perry, W. H.
 Phillips & Sanders
 *Racine, Oliver
 Smith, S. & Son
 Swain, O. F. Co.
 *Swenson, John
 Trenoweth & Togg
 Trenoweth & Co.
 Wall, C. W.
 Weathers, Dan'l
 CONWAY—*FLETCHER, H. E. & CO., (Grey, Pink & White) (See adv. index, end of book)

DOVER—Smalley, Fred C.
 DURHAM—*Chesley, D. & Co.
 EXETER—Greeley, Lyman B.
 FARMINGTON—Pride, H. W.
 *Pride, J. T.
 *Swenson, John
 FITZWILLIAM—*Emerson Troy Granite Co.
 *Troy Granite Co.
 *Webb Granite & Construction Co.
 FITZWILLIAM DEPOT—*Angier, B. L.
 Blodgett, Wm. E. & Co.
 Rosazza, Norza
 Thompson & McKinley
 Thompson, S. B.
 Wilson, A. F.
 FRANKLIN—Dana, Peter
 KEENE—*Perry White Granite Co.
 LACONIA—Holahan, Philip F.
 *Lamprey, Keniston & Co.
 MADISON—*FLETCHER, H. E. & CO. (Grey, Pink & White) (See adv. index, end of book)
 *Fletcher & Lahey (Pink)
 MARLBORO—*Webb Granite & Construction Co.
 MASON—Grant, James & Co.
 MILFORD—Bishop, J. B.
 Burnett Bros.
 Carlton, J. K.
 Carron Bros.
 Columbia Granite Co.
 Comolli Bros.
 *Danteis, D. L. & Co.
 *Drew, F. D. Granite Works
 Felli, P. C. & Co.
 *Finerty, E.

Flnerty, J. W.
***FLETCHER, H. E. & CO. (Grey,**
 Pink & White) (See adv. index, end of
 *Fletcher & Lahey (Grey) book)
 Hayden, Henry W.
 Ingram Bros.
 *Kittredge, E. G.
 McFarlane, George
 *Milford Granite Co.
 *New Westerly Granite Co.
 *Perbam, Newton
 *Stevens Granite Co.
 Thompson, Jos. R.
 Tonelli & Sons
 Union Granite Co.
 Whitehead, Wm. E. (Polishing)
 Work, Jas.
 Yule, Jno. Granite Works
NASHUA—Fuller, Tilson D.
 Lemay Granite Co.
 Mulvanity, T. E.
 *Nashua Granite Co.
PENACOOK—Anderson & Fox (Polishers)
 *Hanson, S. L. & Co.
RAYMOND—Lahey, Thos. (White)
REDSTONE—Redstone Granite Co.
ROCHESTER—Hawkes, E. M.
SUNAPEE—Lake Sunapee Granite Co.
SUNCOOK—Bailey, Charley A.
TROY—Troy White Granite Co.
WEST CONCORD—Concord Granite Co.
 Swenson, Jno.

NEW JERSEY.

EDGEWATER—BATTERSON & EISELE.
 (See adv. index, end of book)
NEWARK—Panther Hill Granite Co., 812
 Board

NEW YORK.

ALBANY—Newport Granite Co.
BROOKLYN—(See New York City, Borough of
 Brooklyn)
BUFFALO—Grattan & Jennings, ft of Main
 *McDonnell & Sons, 858 Main
GENEVA—Potter, W. G. & Son
HORNELLVILLE—Babcock, W. W. Co.
KINGSTON—Donovan, Daniel E. (Building,
 Crushed Meal, etc. (See adv. index, end
 of book)
NEWARK—Gaslin, Geo. B.

NEW YORK CITY.

Borough of Brooklyn.

BROOKLYN—Arnold, W. R., 56 Milton
 Augusta Granite Co., 215 Montague
 Benvenue Granite Co., 215 Montague
 Columbia Granite Co., 215 Montague
 Connell & Mason, 367 Fulton
 Dolan, Richard, 291 Greenpoint av
 Engeman, Wm. A., 215 Montague
 Feitner, John, 24th n 5th av
 Hall's J. Son, Crescent c Jamaica av
 Hynes, John, Bond & Union
 Lannigan, Roger, De Kalb av n Wyckoff av
 Noll, Geo. H., Crescent n Jardine pl
 *Pochuck Granite Co., 26 Court
 Stillger, John, 268 24th
 Union Granite Co., 189 Montague

Boroughs of Manhattan & Bronx

NEW YORK—Albertson, Kerr F., 1133 B'way
 Baird, Matthew, Contracting Co., 433 E 92d
***BATTERSON, J. G., 489 5th av.**
BATTERSON & EISELE, Times
 bldg, 42d. (See adv. index, end of book)
 Benvenue Granite Co., 41 Park row
***BOOTH BROS. & HURRICANE**
 Isle Granite Co. (Red, Grey & White) (See
 adv. index, end of book)
 Brown & Pirie, 135th & Mott Haven Canal
 *Chase Granite Co., 11 B'way
 Clinton Point Stone Co., 170 B'way
 *Cross Bros., 27 E 21st

Dolan, James, ft E 104th
 Donovan, John J. (Granite, Crushed, Meal,
 etc.), 203 B'way
 *Dutton, James E., 42 E 23d
 Dyer, J. N. & Son, 1181 B'way
 *Flint Granite Co., 1133 B'way
 French, H. Q., 170 B'way
 Herow Granite Co., 139th c 5th av
LEOPOLD, J. & CO. (Granite Con-
 tractors), 18 B'way, New York. (See adv.
 below)

McGrath, M., ft E 81st
 Malne & New Hampshire Granite Co., 1181
 B'way
 Manhattan Monument Co., 215 W 125th
 Metropolitan Granite & Supply Co., 1170
 B'way

***NEW ENGLAND GRANITE WKS.**
 489 5th av. (See adv. index, end of book)
 New York Granite Co., 1133 B'way
 *Norcross Bros. Co. (Grey, Red & Green)
 O'Connell, M., 537 W 40th
 *Pierce, John Co., 90 West
 *Peirce, John Co., 90 West
 Penney & Bunt, S Boul n Brook av
 Perry-Tyrie-Aiger Co., 1 Madison av
PICTON ISLAND RED GRANITE
 Co. (Red & Pink), 320 5th av. (See adv.
 index, end of book)

***ROCKPORT GRANITE CO., 21**
 Park row. (See adv. index, end of book)
 Sherwood, G. P. & Co., 1123 B'way
 Sherwood, S. Clinton Co., 1 Madison av
 *Tayntor, C. E. & Co., 239 B'way
 Texas & New York Granite Co., E 233d
 n Vireo av
 Townsend, Townsend & Co. (Mfrs. & Im-
 porter), 453 W 21st
 Westerly Granite Co., 1133 B'way
 Williams, B. A. & G. N. (Inc.), 1272 Av A
 Woodbury Granite Co., 1 Madison av
 Woody, Howard L., 287 4th av

Borough of Queens.

ASTORIA—Ballie, H. C. Marble Works "Mar-
 ble only"
BLISSVILLE—Dutton, J. E. & Co.
LONG ISLAND CITY—White Granite Co.,
 West av & Newton Creek
(END OF NEW YORK CITY.)
PINE ISLAND—Empire State Granite Co.
PORT JERVIS—Nearpass, Wm. J.
ROCHESTER—Hart Bros., 788 Mt. Hope av
 *Worden Bros. Monument Mfg. Co., 508
SYRACUSE—Hinman, C. A. & Co. State
 Walser Bros., 804 N State

NORTH CAROLINA.

ASHEVILLE—Balfour Quarry Co. (Pink)
MOUNT AIRY—North Carolina Granite Corp.
SALISBURY—Wyatt, Marie Louisa (White,
 Pink & Gray)
WINSTON SALEM—McGalliard, C. A. & Son

OHIO.

CINCINNATI—Douglass, Geo. A., Cham of Com
 Hewitt, Jason D., 28 E 3d bldg
 High, E. Nelson, Perin bldg
 McClure, T. F. & Sons Co.
 Pioneer Granite Co., 837 W 5th
 Sarvis, W. H., 941 W 5th
 *Southern Granite Co., 20 Wiggin's blk
CLEVELAND—Broggin, J. & Bros., 1254
 Woodland av
 Carabelli, Jos., 2833 Euclid av
DAYTON—Kronauge Monument Co., Patterson
 Merkle, F. C. Co.
MANSFIELD—Wolff, E. M. & Co.
ZANESVILLE—Cary, F. S. & Co.
 Townsend, W. C. & Co.

OREGON.

MEDFORD—Hicks & Walker
PORTLAND—Blaesing, H. J., 267 3d
 Imhoff & Minar, 335 E Morrison

PENNSYLVANIA.

AVONDALE—Williamson, Frank & Co.
BETHAYRES—Jarrett, Frank
 *Jarrett, Franklin H.
CHAMBERSBURG—Chambersburg Granite Co.
CHESTER—Leiper & Lewis
GETTYSBURG—Faherty, J. W.
 *Lightner, B. F.
HARRISBURG—Spong, L. R.
NORRISTOWN—McGrath, Patrick & Sons
PHILADELPHIA—Barker, H. & Bro., With-
 spoon bldg
 1215 Filbert
 Birney, R. C. & Co. (Rough Stock, etc.),
 Brogan, Dan'l, N 48th & Lancaster av
 Buck & Gallagher, S 9th c Wolf
 Clearfield Quarrying Co., Rothschild bldg
 Craig Granite Co., Crozer bldg
 Dolan Bros., 2505 Lombard
 Dolan, T. & J., S 24th, c De Lancey
 Dunn, Wm. J. & Son, 331 S 23d
 Ebert, Morris (dealer), 302 Walnut
 Gallagher, Wm. C., 819 Union
 Gessler's, Jno. M. Sons, 3912 Baltimore av
 Gies, Shields & Co., 1923 Wash'n av
 *Gray, W. & Sons, 30th bel Walnut
 Hastings & Morrison, 1510 Wash'n av
 Holmesburg Granite Co., Fidelity Mutual
 Life bldg

Kirkpatrick Bros., 23rd c. Wash av
 Law & Burwell, 24th & Locust
 McClenahan Granite Co., Penna. bldg
 Penna Marble & Granite Co., Penna bldg
 *Reinhalter, Jos. B. & Co., Real Estate
 Trust bldg
 Richardson & Ross Quarry Co., Betz bldg
 Ridgway, B. & Son (Building Monumental
 Work), 9th & Columbia av
 Spargo, H. & Sons, 4724 Merion av
 Twining, S. B. & Co., Ltd., Rothschild bldg
 Westmoreland Stone Co., Harrison bldg
 Williamson, Frank & Co. (wholesale), 2202
 Chestnut
 *Winsboro Granite Co., Penna. bldg. Quar-
 ries, Lion, S. C.
PITTSBURG—Booth & Flinn (lignier), 1942
 Forbes

Colwell Granite Co., Ferguson blk
 Pittsburg Granite Co., KKeystone bld
READING—Dauth, Jno. P.
 Eisenbrown, P. F. Sons & Co., 300 N 6th
 Epp, Ernest, 428 N 8th
THORNBURY—Brlnton, Jos. H.
WEST GROVE—Penna. Marble & Granite
 Works

RHODE ISLAND.

ARLINGTON—Fenner, F. D.
EAST PROVIDENCE—Chace, Andrew R.
 *McCormick, Jos.
GREENVILLE—Mathewson, Jno. & Son

When writing to firms whose
 names appear in this book
 please mention

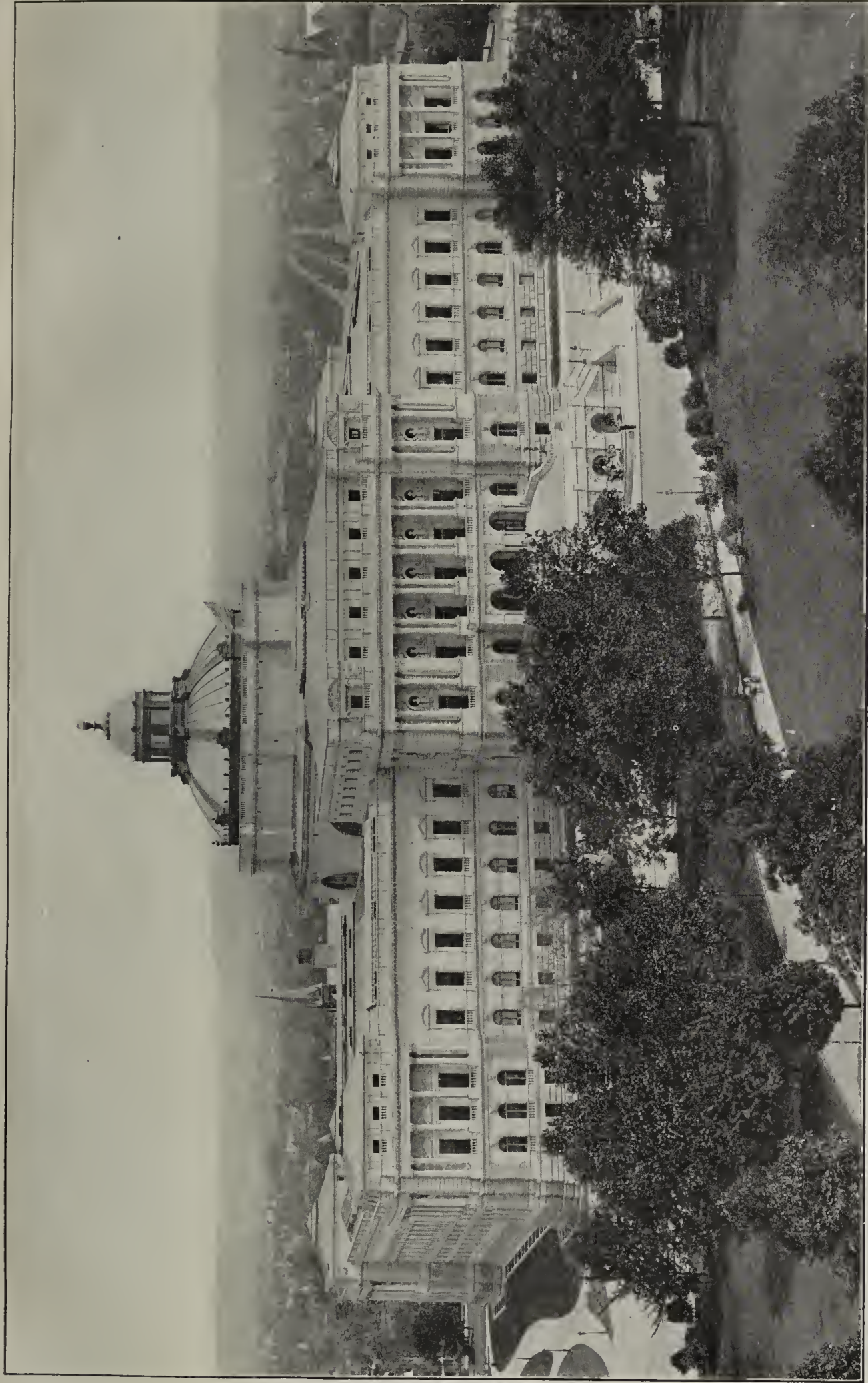
HENDRICKS'
COMMERCIAL REGISTER.

J. LEOPOLD & CO. Dealers in Granite
 Rough Dimension Stone

PAVING BLOCKS A SPECIALTY. Furnished in any quantity. We make delivered price either export or domestic.
 Cable Address, "Granite," Use Western Union Code.

No. 18 BROADWAY

NEW YORK, N. Y.



CONGRESSIONAL LIBRARY, WASHINGTON, D. C. (The Granite in this Building is from our Concord Quarries.)

NEW ENGLAND GRANITE WORKS

INCORPORATED 1871.

J. G. BATTERSON, President. JAS. GOURLAY, Vice-President. D. L. McLAREN, Manager. WM. B. AUSTIN, Treasurer and Secretary. J. M. KILLEEN, Ass't Secretary.

CONTRACTORS for BUILDING WORK, PUBLIC or PRIVATE of any DESCRIPTION.

QUARRIES at Westerly, R. I., and Concord, N. H.

MAIN OFFICE, Westerly, R. I.

BRANCH OFFICES, Concord, N. H.; 489 Fifth Ave., New York.

OVER—See following page.

OVER.

See following page—OVER.



NEW ENGLAND GRANITE WORKS

THE GRANITE WORK OF THE FOLLOWING
BUILDINGS WAS FURNISHED BY THIS COMPANY:

| | | | | |
|--|---|---|---|--------------------------------|
| CONGRESSIONAL LIBRARY, | - | - | - | Washington, D. C. |
| EQUITABLE LIFE INS. BLDG., | - | - | - | New York City |
| BLACKSTONE LIBRARY, | - | - | - | Chicago, Ill. |
| STANDARD OIL BUILDING, | - | - | - | New York City |
| FRICK BUILDING, | - | - | - | Pittsburg, Pa. |
| WASHINGTON LIFE INS. CO. BLDG., | - | - | - | New York City |
| AMERICAN EXCHANGE NATIONAL BANK BLDG., | | | | New York City |
| WILLIAMSBURGH SAVINGS BANK, | - | | | Williamsburgh, N. Y. |
| WESTERN NATIONAL BANK, | | | | New York City, and many others |

MAUSOLEUM and HIGH-CLASS MONUMENTAL WORK our SPECIALTY.

SEE PRECEDING PAGE.

NIANTIC—†Crumb, A. G. & Sons
Faverio & Curry. (Contractors)
*Gourlay Granite Works
*Hutchins, Geo. T.
Newall, Jos. & Co.
Thompson & Palmer
PROVIDENCE—Barden, Peter, 348 Cranston
Bishop, J. W. Co., Butler Ex
Bouchard, Z. V., 700 Cranston
Burns, Jno. Granite Co., 840 N Main
Johnston Granite Co., 49 Westmister
Kimball & Combe Co., 3 Weybosset
Norcross Bros. Co. (Gray, Red & Green)
O'Brien, Jno., 440 Cranston
Ray & Foster, 1148 Westminster
R. I. Brown Stone Works, Leland nr Brown
Tingley, F. F., 75 Westminster
Tingley & Co., 215 W Exchange
WESTERLY—†Calder & Carnie
Duca, Jos. & Co.
†Farrell, A.
Flynn, Maurice W.
*Gourlay Granite Works
†Murray, Alex. & Co.
†NEW ENGLAND GRANITE WKS.
(See adv. index, end of book)
O'Neill, Daniel H.
*Smith Granite Co.
†Sweeney Granite Works (Gray, Pink, Blue,
Red & White)
†Westerley Granite Works

SOUTH CAROLINA.

BEVERLY—†Beverly Granite Co.
HEATH SPRINGS—*Excelsior Granite Co.
RION—*Winsboro Granite Co.

SOUTH DAKOTA.

ABERDEEN—Aberdeen Granite Co.

TEXAS.

LLANO—†Enterprise Granite Works

VERMONT.

BARRE—Abbiati, E.
Adle & Milne
• Allen & Newcomb
Anderson, A. & Sons
Appiani, Ferrari & Fraquelli
Barclay, A. & Co.
†Barclay Bros.
†Barre Granite Co.
Barre Granite & Construction Co.
Bates, I. W. & Co.
Beck & Beck (polishing)
Bessey Granite Co.
Bird, Alex. S. & Son
Blair, Bert E.
Bond & Kidder
Boutwell, Milne & Varnum Co.
Brown, John & Co.
Bugbee & Alexander
Burke Bros.
Burr Bros.
Canton Bros.
Carl, E. W.
Carroll & McNulty
Carusi, E. A.
Clark Bros.
†Coburn & Trail
Cole, Wm. & Sons
Comolli & Co.
Cordiner Bros.
Corskile, J. P. & Son
Craven, E. E. & Co.
Cruikshank & Soon
Cumming, W. B.
Dewey Column Cutting Co.
Dinneen & Co.
Eclat Granite Co.
Excelsior Granite Co.
Freeman & Wasgatt
Gallagher, L. B.
Gasparella Bros.
Gludiel Bros. & Co.
Glysson, Eugene C.
Hall, W. A. & Co.
Harper, Gallagher Co.
Harrison Granite Co. (Monumental & Manso-
leum), & 42 E 23d, New York
Hoyt & Lebourvean
*Innes & Cruickshank
Jones, A. S.
*JONES BROS. CO. (See adv. in-
Le Clair & McNulty dex, end of book)
Leland & Hall Co.
Littlejohn, Odgers & Milne
McColl, Jno.

McDonald & Buchan (Also Polishing)
McDonald, Cutler & Co.
McDonnell & Sons
McIver & Mathieson
McMillan, O. W. & Son
McMinn & Sons
Macchi, Z.
*Manufacturers' Quarrying Co.
Marchesse, Chas. & Co.
Mariana, F.
Marciasl, O. N.
†Marr & Gordon
Marrion & O'Leary
Martell Bros.
Martinson, John A. & Co.
Melcher & Hadley
Milne, Alex.
More, C. H. & Co.
Moore Bros. & Brault
Mortimer & Campbell
Murray, J. F.
Mutch & Calder
National Polishing Co.
North Barre Granite Co.
Novelli & Calcagni
Olliver & Co.
Parnogoni, Frank
Philips, Findlater & Co.
Presbrey-Coykendall Co.
Rae, Jas. & Sons
Restelli, Agnostines & Co.
Rizzi Bros.
Rizzi, L. G.
Robbins Bros.
Rogers, P. J. & Co.
Ross & Ralph
Scott Bros.
Scott & Townsend
Sector, Jas. & Co.
Sievewright Co.
Smith Bros. Granite Co.
†Smith, E. L. & Co.
†Standard Granite Co.
Stephen & Gerrard
Stralton, George
Sullivan, Eugene
Swasey, C. D. & Co.
†Tayntor, C. E. & Co.
Thom, Clark & Co.
Townsend, W. C. & Co.
Vanetti & Brusa Co.
Vermont Granite Co.
Walker, Geo. & Son
†Wells, Lamson & Co.
Wetmore & Morse Granite Co.
Williams, D. R. & Co.
Wilson Bros. Granite Co.
Woodcock, F. & Bros.
Young Bros.
BEEBEPLAIN—Beebe Plain Granite Co.
BELLOWS FALLS—King, Hiram, Jr.
*Thayer & Smith.
BENNINGTON—*Woodbury Granite Co.
BRATTLEBORO—†Grant, Chas. H. Granite Co.
Holbrook, Clifford M.
EAST BARRE—Bianchi, Chas. & Sons
Bilodeau, J. O. & Co.
D. B. L. Granite Co.
†Greason Bros.
Sullivan, Tucker & Co.
EAST DORSET—*Dorset Mountain Marble Co.
ESSEX JUNCTION—Bailey, Guy W.
GOULDSVILLE—Provost & Bussierre
GRANITEVILLE—Prospect Granite Co.
Wetmore & Morse Granite Co.
GROTON—Benzie, H. T. & Co.
HARDWICK—American Granite Co.
Anair, J. J.
Bailey & Rollins
Crystal Brook Granite Co.
Donald, W. B.
†Emerson, Frank A.
Fletcher, E. R.
Jackson & Davis
James Granite Co.
Murch, E. R.
Northern Granite Co.
Ross-Imlah Granite Co.
Stewart Granite Works
Sullivan, J. E.
Tillotson, H. H.
Union Granite Co.
Vavala & Grenci
Webber Granite Co.
*Woodbury Granite Co.
MONTPELIER—American Granite Co.
Bertoli Harry J.
Bianchi, G. R. Granite Co.
Bonazzi, Bonazzi & Co.
*Boutwell, Jos. M.
*Boutwell, Milne & Varnum Co.
*Bowers, R. C. Granite Co.
Cary, F. S. & Co. (Granite & Statuary)
Choldi Bros.
Columbian Granite Co.
Coml, Roveri & Co.
Craven, E. E. & Co.

Dillon & Haley
Doucette Bros.
Frazer, Robt. M.
Gill, C. P. & Co.
Globe Granite Co.
Grappone Bros.
Green Mountain Granite Co.
Hill, Felix A.
Jurras, J. & Co.
Lille, Dean K.
Mills & Co.
Murley & Carroll
Parry & Jones
*Patch & Co.
Pioneer Granite Co.
Robar, F. J. & Co.
Ryle & McCormick Co.
Smith, Chas. A.
Sweeney Bros. Granite Co.
*Wetmore & Morse Granite Co.
MORRISVILLE—Mould & Davis
NEWPORT—*FLETCHER, H. E. & CO.
(Gray, Pink & White). (See adv. index,
end of book)
NORTHFIELD—Brusa, P. & Co.
Burns, J. L.
*Cross Bros.
*ELLIS, E. B. GRANITE CO. (See
Phillips & Slack adv. index, end of book)
Woodbury Granite Co.
RUTLAND—Clark, Jas. S.
Kinsman, W. R.
Temple Bros. (Wholesale)
ST. JOHNSBURY—Laird, H. M.
Walker, J. E.
SODOM—Guy, W. J.
SOUTH RYEGATE—Blue Mountain Granite Co.
Gibson, Martin H.
WATERBURY—Daniels, Drew
WEST BERLIN—Davis Bros.
WEST DUMMERSTON—*Bailey, David J.
*Lyons, G. E. Granite Co.
WILLIAMSTOWN—Greason-Becket Co.
WINDSOR—*Norcross Bros. Co. (Gray, Red &
Kendall, Frank H. Green)
*Windsor Green Granite Co.
WOODBURY—Ainsworth & Mack

VIRGINIA.

FREDERICKSBURG—Battlefield Granite Co.
GRANITE—*McGranighan, Patrick
PETERSBURG—Burns & Campbell
*Cook, A. B.
*PETERSBURG GRANITE CO.
Walsh, C. M.
RICHMOND—Brown, J. Henry, 219 W Main
*Wray, Andrew J., 328 S Cherry
ROANOKE—Marsteller, Jno. H., 21 Campbell
av, S E

WISCONSIN.

ABLEMAN—*Western Consolidated Granite Co.
AMBERG—*Amberg Granite Co.
*Archie Bros. Granite Co.
*Pike River Granite Co.
BERLIN—Bannerman Granite Co.
*Western Consolidated Granite Co.
BLOOMINGTON—Patch, A. H.
HORTONVILLE—Hodgins, David
LA CROSSE—*Black River Granite Co.
Hynne & Crosby Granite Co.
MANITOWOC—Kettenhofen, Nichols
Nesper, Jno.
MILWAUKEE—*Milwaukee Monument Co.
Northside Granite & Marble Works, 1026
Walnut
Shaver, Jas. Granite & Marble Co., 506 7th
Sutter, H. Granite & Marble Co., 441
Mitchell
Union Granite & Marble Co., 1326 Teutonia
PLYMOUTH—Kegler, G. F. av
SEYMOUR—Schroeder, Paul
UTLEY—Western Consolidated Granite Co.
WAUPACA—*Waupaca Granite & Quarry Co.
*Western Consolidated Granite Co.
WAUSAU—Marathon County Granite Co.

Granite Sawing Machines

(See Machines, Stone Sawing)

Granite (Seam Face)

Hingham Seam Face Granite Co., 161 Summer,
Boston, Mass.
Holmesburg Granite Co., Fidelity bldg, Phila-
delphia, Pa.

Granite & Marble Monument Workers & Dealers

(For names other than those under head of Granite Producers, etc., write S. E. Hendricks Co.)

*Granolithic Stone Sidewalks

(See also Cement & Concrete Pavements.)

SCHILLINGER BROS. CO., Toledo, O. (See adv. index, end of book)

Graphophone Mfrs.

(See Talking Machines)

*Graphite (Bicycle)

DIXON, JOS. CRUCIBLE CO., Jersey City, N. J. (See adv. index & branch offices, end of book)

*Graphite Boxes & Covers

DIXON, JOS. CRUCIBLE CO. ("Dixon's"), for Baking Carbons, etc.), Jersey City, N. J. (See adv. index & branch offices, end of book)

*Graphite (Commutator)

DIXON, JOS. CRUCIBLE CO., Jersey City, N. J. (See adv. index & branch offices, end of book)

Graphite Miners & Refiners

Allen Graphite Co., Quenelda, Ala.
Asbury Graphite Mills (H. M. Riddle, Prop.), Asbury, N. J.
Chicago Graphite Mfg. Co., 79 Dearborn, Chicago, Ill.
Columbia Graphite Co. (Miners), Ticonderoga, N. Y., & Farmers' Bk bldg, Pittsburg, Pa.
DIXON, JOS. CRUCIBLE CO., Jersey City, N. J. (See adv. index & branch offices, end of book)
New Phila. Graphite Co., Stephen Girard bldg, Phila., Pa. Works, Chester Springs, Pa.
Federal Graphite Co., Chester Springs, Pa.
Girard Graphite Co., Witherspoon bldg, Phila., Pa. Mines & Mills, Kimberton, Pa.
Hathaway Graphite Co., L'Anse, Mich.
International Acheson Graphite Co. (Mfrs. in the Electric Furnace), Niagara Falls, N. Y.
Michigau Paint Co., Flint, Mich.
National Mining Co., Darby, Pa.
North American Graphite Co., Ottawa, Canada, & 52 B'way, N. Y.
Pettinos Bros., Bethlehem, Pa.
Standard Graphite Co., 11 B'way, N. Y.
Ticonderoga Graphite Co., Ticonderoga, N. Y.
United States Graphite Co. (Crucible & Lubricating Flake & Powdered Graphite), 1208 Arch, Phila., Pa.
United States Graphite Co., Saginaw, Mich.
Mines in Conora, Mexico
Western Graphite Co., Call bldg, San Francisco, Cal.
Wisconsin Graphite Co., Stevens Point, Wis.

*Graphite (Oiled)

DIXON, JOS. CRUCIBLE CO. ("Dixon's"), Jersey City, N. J. (See adv. index & branch offices, end of book)

*Grapples (Beam)

BETHLEHEM FOUNDRY & MACHINE Co., Front, South Bethlehem, Pa., & 149 B'way, New York. (See adv. index, end of book)

*Grapples (Stone Hoisting)

FARRINGTON, H., 45 B'way, New York. (See adv. index, end of book)

Grapples (Timber)

Evart Tool Co. (Ltd.), Evart, Mich.

Grate Bar Mfrs.

Aetna Grate Bar Co., 126 Liberty, N. Y.
Ajax Grate Bar Co. ("Ajax"), Williamsport, Pa.
Altoona Foundry & Machine Co., Altoona, Pa.

AMERICAN BRAKE SHOE & FOUNDRY Co., 170 B'way, New York. Works & Sales Office, Chicago Heights, Ill. (See adv. index & branch offices, end of book)

Arnold-Creager Co., New London, O.
Ashcroft, Jno., Grate Bar Co., 61 Beekman, New York
Barker, Jas. ("Barker"), 6th & Tioga, Phila.
Beggs, Jas. & Co., 109 Liberty, N. Y. Pa.

BETHLEHEM FOUNDRY & MACHINE Co., Front, South Bethlehem, Pa., & 149 B'way, New York. (See adv. index, end of book)

Birmingham Boiler Works, Birmingham, Ala.
Borger Bros. Co., Columbus, O.
Bowler Foundry Co., Cleveland, O.
Bushnell, John S. Co., 123 Liberty, New York
Butman Engineering Co., Monadnock blk, Chicago, Ill.

CANTON FOUNDRY & MACHINE CO. (Dumping & Shaking), Canton, O. (See adv. index, end of book)

Catawissa Car & Foundry Works (Sectional), Catawissa, Pa.
Christman Co., Massillon, O.
Continental Grate Co. (Shaking), 85 Devonshire, Boston, Mass.

Co-operative Foundry Co., Detroit, Mich.
Crowder Bros., 219 N 4th, St. Louis, Mo.
Crowe, Paul L. (Structural Steel), 47 Montgomery, Jersey City, N. J.

Daugherty Foundry Co. ("Tupper," "Adams" & Circle Grate for Vertical Boilers), Allentown, Pa.
Davis, Jno. Co., 22d & Halsted, Chicago, Ill.

DOBBIE FOUNDRY & MACHINE CO. Main Office & Works, Niagara Falls, N. Y. (See adv. index & branch offices, end of book)

Donegan & Swift (of All Kinds), 6 Murray, N. Y.
Downey & Kruse Co., 112 N 2d, Milwaukee, Wis.

Eastwood Wire Mfg. Co., Belleville, N. J.
Erie City Iron Works, Erie, Pa.
Erie Engine Works (Shaking, Dumping & Stationary), Erie, Pa.

Estabrook's, R. Sons, 204 W 1st, Boston, Mass.
Evans, Thos. (Patent), Providence, R. I.
Ferguson, F. & Son, 1122 Clinton, Hoboken, N. J.

Foster, F. W. Mfg. Co. (Shaking), 99 Haverhill, Boston, Mass.
Fox's, Benj. Sons, 513 W 34th, N. Y.

Frick Grate Bar Co., 421 Chestnut, Phila., Pa.
Frick, Horace E. Co. ("Frick's") Wire Sectional Tupper or Herringbone, Real Estate Trust bldg., Phila., Pa.

Frost Mfg. Co. (Rocking, etc.), Galesburg, Ill.
Gehl Bros. Mfg. Co., West Bend, Wis.
Gibson Iron Works Co. (Common Sense, Dumping, etc.), 170 1st, Jersey City, N. J.

Gordon Hollow Blast Grate Co., Greenville, Mich.
Grainger & Co., Louisville, Ky.
Green Engineering Co., Western Union bldg, Chicago, Ill.

Griffing, A. A., Iron Co., Jersey City, N. J.
Harrell & Eastwood, Ft. Worth, Texas
Hathorn Fdy. & Machine Co., Mason City, Ia.

Hayes, Jno. A. Foundry Co., Lynn, Mass.
Helmick Foundry & Machine Co. (Furnace), Fairmont, W. Va.

Huntsville Foundry & Machine Works (Nolan & Jones, Props.), Huntsville, Ala.
Janney, A. A. & Co., Montgomery, Ala.

Jarvis Engineering Co. (Sheffield), 61 Oliver, Boston, Mass.
Kahl, Frederick, 12 St. Aubin av, Detroit, Mich.

KEWANEE BOILER CO., Kewanee, Ill., & 169 E Lake, Chicago, Ill. (See adv. index, end of book)

Kutztown Foundry & Mach. Co., Kutztown, Pa.
Lahman, W. H. (The "Lahman-Kirkwood" Shaking & Dumping), 92 Ohio, Chicago, Ill.

Lippincott Steam Specialty & Supply Co. ("Lippincott" Shaking), Newark, N. J.
Litchfield Foundry & Machine Co., Litchfield, Ill.

Love Bros. (Inc.), Aurora, Ill.
McClave-Brooks Co. (Shaking), Scranton, Pa.
Macbeth Iron Co. ("Aetna"), Cleveland, O.

MacKinnon Mfg. Co. ("Peerless"), Bay City, Mich.
Madison Avenue Foundry Co., 155 E Madison av, Cleveland, O.

Martin Grate Co. ("Martin"), Anti-Friction Rocking, Fisher bldg., Chicago, Ill.
Mather, E., Harrisburg, Pa.

Mechanics' Iron Foundry Co., 38 Kemble, Boston, Mass.
Mershon Patent Shaking Grate Works, 1203 Filbert, Phila., Pa.

Miller Oil & Supply Co. ("Perfection" Hollow Blast), Indianapolis, Ind.
Moore, Edw. J. Machine & Foundry Co. (Shaking & Rocking, etc., Patent & Plain), 1734 Diamond, Phila., Pa.

Munroe, R. & Sons Corporation, 23d & Smallman, Pittsburg, Pa.
Murray Iron Works Co. (Plain & Rocking), Burlington, Ia.

National Water Tube Boiler Co., New Brunswick, N. J.
Neemes Bros. (Self-Cleaning), Troy, N. Y.

New England Roller Grate Co., Springfield, Mass.
New York Grate Bar Co., 123 Liberty, New York
Niver Iron Works Co., Manscaine, Ia.

OIL WELL SUPPLY CO., 215 Water, Pittsburg, Pa. (See adv. index, end of book)

Peacock's Iron Works, Selma, Ala.
Peacock's, Iron Works, Selma, Ala.
Perfection Grate Co., Springfield, Mass.

Piedmont Iron Works, Greensboro, N. C.
Pinkerton & Mull (Gosselin Shaking), Green Island, N. Y.
Portland Co., Portland, Me.

Reagan Grate Bar Co., 209 N Front, Phila., Pa.
Robertson, Jas. L. & Son (Inc.), 48 Warren, N. Y.

Robson, Chas., 8th & Washington av, Phila., Pa.
Rose Patent Grate Co., Council Bluffs, Ia.

Salamander Grate Bar Co. ("Salamander," "Aetna," "Steele," "Ryder" & "Rogers"), 126 Liberty, New York

Scott's Brick Car Co., Knoxville, Tenn.
Scranton Steam Pump Co. ("Scranton" Shaking, etc.), Scranton, Pa.

Scranton Steam Pump Co. ("Lippincott" & "Scranton" Shaking, etc.), Scranton, Pa.
Sennett, Geo. B. Co. (Rocking), Youngstown, Ohio

Smith Iron Foundry, Lynn, Mass.
Smith, W. Clifford, 140 N 6th, Phila., Pa.
Southern Engine & Boiler Works (Inc.), Jackson, Tenn.

Southern Supply Co. (Sawdust), Mobile, Ala.
Strothman Iron Co., Superior, Wis.
Stowell Mfg. & Foundry Co. ("Hall's" Patent), S. Milwaukee, Wis.

Tallerday Steel Pipe & Tank Co., Waterloo, Ia.
Thompson, Richard & Co. ("Aetna" Shaking, "Thompson's" Dumping, "Thompson's" Sectional & Steel's Revolving, Shaking & Dumping Grates), 126 Liberty, N. Y.

Toledo Foundry & Machine Co., Toledo, O.
Townsend Furnace & Machine Shop Co., Albany, N. Y.

Treadwell, M. H. & Co. (Treadkill" Shaking, etc.), 90 West, New York; Works, Lebanon, Pa.

Tupper, W. W. & Co. (Shaking Grates & Grate Bars), 21 State

U. S. Rocking Grate Bar Co., Elizabeth, N. J.
Valley Iron Works ("Ajax," "Rocking," "Tupper," Circular), Williamsport, Pa.

Variety Iron & Steel Works Co., Cleveland, O.
Vulcan Iron Works Co., Toledo, O.
Walton, C. J. & Co., Louisville, Ky.

Ward & Upright Engineering Co., 41 York, Brooklyn, N. Y.

Western Foundry & Sash Weight Co., 159 Miller, St. Louis, Mo.

White, J. L. Furnace Co. (Hollow Blast Rocking), Milwaukee, Wis.

Wickes Bros., Saginaw, Mich.
Willoughby, Alfred B. ("Willoughby-St. John" Shaking), Bonrse bldg, Phila., Pa.

Worthington National Grate Co., Calvert bldg, Baltimore, Md.

Zelnicker, Walter A. Supply Co., 408 N 4th, St. Louis, Mo.

*Grate Settings

MAURER, HENRY & SON ("Liverpool"), 420 E 23d, New York. (See adv. Front Inside Cover)

Graters (Apple)

Boomer & Boschert Press Co. (Power), Syracuse, N. Y.

Emeny, G. J. Co. (Power), Fulton, N. Y.
Hydraulic Press Co. (Power), Mt. Gilead, O.

Graters (Green Corn)

Bonney Vise & Tool Works (Inc.), 3015 Chestnut, Phila., Pa.

Graters (Horse Radish)

Kelso & Co., 209 S Clinton, Chicago, Ill.
Smith's Jno. E. Sons Co., Buffalo, N. Y.

Graters (Nutmeg)

Frauklin Specialty Co., Reading, Pa.

Grates (Cellar)

Comstock, Geo. S., Mechanicsburg, Pa.
Hickok, W. O. Mfg. Co., Harrisburg, Pa.
OHIO STRUCTURAL IRON CO., Sandusky, O. (See adv. index, end of book)

Grates (Dumping)

(See Grates, Shaking & Dumping)

***Grates, Fenders & Mantels**

(See also Fireplace Furnishings; also Mantel, Grate & Tile Dealers)

JACKSON, WM. H. COMPANY, 29 E
17th (Union sq), New York. (See adv. index, end of book)

Grates (Gas, Parlor)

American Stove Co. ("Reliable"), St. Louis, Mo.
Perfect Gas Stove Mfg. Co., Huntingdon, W. Va.
Rathbone & Panigot Co., Grand Rapids, Mich.

Grates (Hollow Blast)

(See Grate Bar Mfrs.)

Grates (Rocking)

(See Grate Bar Mfrs.)

Grates (Shaking & Dumping)

(See also Grate Bar Mfrs.)

Continental Grate Co., 85 Devonshire, Boston, Mass.
Crow, Paul L., 47 Montgomery, Jersey City, N. J.
Donegan & Swift (Swift's Imperial Clinker Crushing), 6 Murray, New York
Economic Engineering & Construction Co. ("Sharp"), Monadnock blk, Chicago, Ill.
Erie Engine Works (and Stationary), Erie, Pa.
Foster, F. W. Mfg. Co., 99 Haverhill, Boston, Mass.
Frick, Horace E. Co. ("Frick" Shaking Crushing & Dumping Grate Surface, etc.), Real Estate Trust bldg, Phila., Pa.

KEWANEE BOILER CO., Kewanee, Ill., & 169 E. Lake, Chicago, Ill. (See adv. index, end of book)

Kutztown Foundry & Machine Co., Kutztown, Pa., & Fidelity bldg, Phila., Pa.
Lahman, W. H. ("Lahman-Kirkwood" Shaking & Dumping), 92 Ohio, Chicago, Ill.
Lippincott Steam Specialty & Supply Co. ("Lippincott" Shaking), Newark, N. J.
McClave-Brooks Co. (& Cut-Off), Scranton, Pa.
Macbeth Iron Co. ("Aetna"), Winslow & Center, Cleveland, O.

Martin Grate Co. ("Martin" Anti-Friction Rocking), Fisher bldg, Chicago, Ill.

Merston Patent Shaking Grate Works, 1203 E Filbert, Phila., Pa.

Moore, Edw. J. Machine & Foundry Co. (Shaking & Rocking), 1734 Diamond, Phila., Pa.

Myrick Machine Co., Olean, N. Y.
Neemes Bros., Troy, N. Y.

New England Roller Grate Co., Springfield, Mass.

New York Grate Bar Co. ("Coe's"), 123 Liberty, New York

Perfection Grate Co., Springfield, Mass.
Portland Co. ("Hamlin" Rocking & Dumping), Reagan Grate Bar Co., 209 N Front, Phila., Pa.

St. John Patent Shaking Bar Co. ("St. John"), Bourse bldg, Phila., Pa.

Salamander Grate Bar Co. ("Aetna"), 126 Liberty, New York

Scranton Steam Pump Co. ("Scranton"), Scranton, Pa.

Strothman Iron Co., Superior, Wis.
Thompson, Richard & Co. ("Aetna"), 126 Liberty, New York

Treadwell, M. H. & Co. ("Treadkill"), 90 West, New York; Works, Lebanon, Pa.

Willoughby, Alfred B. ("Willoughby-St. John" Shaking), Bourse bldg, Phila., Pa.

Grates (Traveling Link)

Babcock & Wilcox Co., 85 Liberty, New York, N. Y.

Crowe, Paul L., 47 Montgomery, Jersey City, N. J.

Green Engineering Co., Western Union bldg, Chicago, Ill.

***Grates (Ventilating)**

JACKSON, EDWIN A. & BRO., 50
Beekman, New York

***Gravel Elevators (Hydraulic)**

ABENDROTH & ROOT MFG. CO.,
Newburgh, N. Y. (See adv. index & branch offices, end of book)

***Grease ("Airoilene," for Pneumatic Tools)**

CHICAGO PNEUMATIC TOOL CO.,
Fisher bldg, Chicago, Ill. (See adv. index & branch offices, end of book)

Grease (Axle)

Brooks Oil Co., Cleveland, O.
Canton Lubricator Mfg. Co. ("Century"), Canton, O.
Delaney Oil & Lubricating Co., Milwaukee, Wis.
DIXON, JOS. CRUCIBLE CO. ("Dixon's" Graphite), Jersey City, N. J. (See adv. index & branch offices, end of book)
Fiske Bros. Refining Co., 13 Old Slip, New York
Frazer Lubricator Co., 142 Michigan, Chicago
Freedom Oil Works Co., Freedom, Pa. Ill.
Galena Axle Grease Co., Galena, Ill.
Globe Oil Co., Rose bldg, Cleveland, O.
Hisgen Bros. (Inc.) ("Four Bros."), Albany, N. Y.

Houghton, E. F. & Co., 240 W Somerset, Phila., Pa.

Ilslay, Doubleday & Co., 229 Front, N. Y.
Johnson, F. C., Kishwaukee, Ill.

Monitor Oil Co., Cleveland, O.
Smith & Nichols, 48 South, New York

Snow Flake Axle Grease Co. (also Coach Oil), Fitchburg, Mass.

Standard Oil Co. of New York, 666 Hudson, N. Y.

Stuart, D. A. & Co. (Inc.), 447 Illinois, Chicago, Ill.

Swan & Finch Co., 151 Maiden la, N. Y.
Warren Specialty Co., Warren, Pa.

Winn, Wm. R. ("Winn" also Axle Oil), 143 Maiden lane, New York & Springfield, Mass.

World Refining Co., Easton, Pa.
Zurn, O. F. Co. ("Zurn's"), 23 S 5th, Phila., Pa.

Grease (Cable & Elevator Shaft)

Cauton Lubricator Mfg. Co., Canton, O.
Climax Refining Co. ("Cable Compound"), Williamson bldg, Cleveland, O.

Grease Cups

(See Lubricators, Oil & Grease Cup)

Grease Extractors

(See Oil & Grease Extractors.)

***Grease (Graphite)**

DIXON, JOS. CRUCIBLE CO. ("Dixon's," for Open Bearings on Spindles, Shafting, etc.), Jersey City, N. J. (See adv. index & branch offices, end of book)
Harris, A. W. Oil Co. ("Harris"), Providence, R. I.

Grease (Wire Drawing)

Houghton, E. F. & Co., 240 W Somerset, Phila., Pa.

Green House Builders

BICKELHAUPT, GEO. SKYLIGHT
Works, 243 W 47th, New York. (See adv. index, end of book)

Hitchings & Co., 1170 B'way, New York
Johnson, Geo. H., Arlington, Mass.

Lord & Burnham Co., 1133 B'way, New York
National Skylight & Construction Co., Culver av, Jersey City, N. J.

National Ventilating Co., 1 Madison av, New York
Pierson U Bar Co., 1 Madison av, New York

Rendle, Arthur E., 18 W 34th, New York
Scollay, John A. (Est. of), 74 Myrtle av, Brooklyn, N. Y.

STEARNS, A. T. LUMBER CO., Neponset, Boston, Mass. (See adv. index, end of book)

Thomson, Kennedy & Co., 6212 Prescott, St. Louis, Mo.
Weathered Co., Orient & West End avs, Jersey City, N. J.

Green House Materials

(See also Sash, Greenhouse & Hot Bed)

Hitchings & Co., 1170 B'way, New York
Lord & Burnham Co., 1133 B'way, New York
Metropolitan Material Co., 1398 Metropolitan av, Brooklyn, N. Y.
Pierson U Bar Co., 1 Madison av, New York
Selden Cypress Door Co., Palatka, Fla.
Stearns, A. T., Lumber Co., Neponset, & 166 Devonshire, Boston, Mass.
Struck, J. N. & Bro. (Inc.), Louisville, Ky.

Green House Tables & Shelving (Slate)

Allen's, S. Sons, Fair Haven, Vt.
Monson Maine Slate Co., 113 Devonshire, Boston, Mass.
Penrhyn Slate Co., 493 E 138th, New York
Williams Slate Co., Arvonla, Va.

Green House Ventilating Appliance

(See Ventilating Apparatus for Greenhouse & Buildings)

Green House & Hot Bed Sash

(See Sash, Green House & Hot Bed)

Griddles

Adams Co. (Cake), Dubuque, Ia.
Avery Stamping Co. (Steel), 5207 Lakeside av, N. E., Cleveland, O.

GENERAL ELECTRIC CO. (Electric Cake), Schenectady, N. Y. (See adv. index & branch offices, end of book)

Lalauce & Grosjean Mfg. Co. (Cake), 19 Cliff, New York

National Enameling & Stamping Co. (Cake), 374 B'way, New York

New York Stamping Co. (Stamped), 11th & Berry, Brooklyn, N. Y.

Pike Mfg. Co. (Soapstone), Pike Sta., N. H.
Smith & Hemenway Co. (Cake), 108 Duane, New York, N. Y.

Stewart & Peterson Co. (Cake), Burlington, N. J.
Sturges & Burn Mfg. Co. (Steel), 249 S Green, Chicago, Ill.

Grille, Fret & Lattice Work

American Parquetry Floor Co., 1124 Walnut, Phila., Pa.

ARCHITECTURAL DECORATING CO., Chicago, Ill. (See adv. index, end of book)
Bertelsen Adjustable Grille Co., 306 S Clinton, Chicago, Ill.

Bossert, Louis & Son, Grand st. & Newtown Creek, B'klyn. N. Y.

Boynton & Co., 421 W 15th, Chicago, Ill.
Buffalo Grille Co., 270 Court, Buffalo, N. Y.

Bush & Mallett Co., 618 Mission, San Francisco, Cal.

CHICAGO MILL WORK SUPPLY CO., 22d & Sangamon, Chicago, Ill. (See adv. index, end of book)

Cutting, Henry, 233 Mortimer, Buffalo, N. Y.
Davis, E. J. Mfg. Co., 251 W 21st, Chicago, Ill.

DECORATORS' SUPPLY CO., Archer
av, c Leo, Chicago, Ill. (See adv. index, end of book)

Dnpree, Jno. & Co., 329 Taylor, Grand Rapids, Mich.

Frey, J. W., 539 S B'way, Los Angeles, Cal.
Frier, Geo. L., Tacoma, Wash.

Grand Rapids Carved Moulding Co., Grand Rapids, Mich.

Gnnther, Louis, 752 W Lake, Chicago, Ill.

Harris & Cole Bros. (Wholesale Mfrs.), Cedar Falls, Ia., & Columbia, Tenn.

Heaton & Wood, 1706 Chestnut, Phila., Pa.
Herr, Jno. Floor Co., 1822 Olive, St. Louis, Mo.

Hyde-Murphy Co., Ridgway, Pa.
Kalamazoo Grille Co., Kalamazoo, Mich.

Keddy Grille Co., Detroit, Mich.
Kelly Bros. Co., 5336 Armour av, Chicago, Ill.
Lidell, Wm. C., 597 Austin av, Chicago, Ill.

Lorenzen, Chas. F. & Co., 278 N Ashland av, Chicago, Ill.

McIntosh, Alex., 21 E 20th, N. Y.
 McMillen, R. Co. (Wholesale Mfrs.), Oshkosh, Wis.
 Morgan Co. (Grille), Factory & General Offices, Oshkosh, Wis. (For complete list of offices, see colored pages at end of book)
 Nelson, Chas., 701 W Lake, Chicago, Ill.
 New York Carved Moulding Co., Rider av & 139th, New York
 Northwestern Grille Works, 1458 Milwaukee av, Chicago, Ill.
 Ocker & Ford Mfg. Co., Grand Rapids, Mich.
 Pasadena Mfg. Co., Pasadena, Cal.
 Reynolds, H. W., c Race & Terrace, Meadville, Pa.
 Roach & Musser Sash & Door Co. (Wholesale & Retail), Muscatine, Ia.
 Simmons, J. Lee, 606 5th, N. W., Washington, D. C.
 Smith, John A. (Co-Operative Floor Co.), Los Angeles, Cal.
 Smith & Young, 723 Market, San Francisco, Cal.
STEARNS, A. T. LUMBER CO., Neponset, Boston, Mass. (See adv. index, end of book)
 Terwilliger Mfg. Co., 23d & 5th av, N. Y., & 302 Fulton, Brooklyn, N. Y.
 Waddell Mfg. Co., Taylor & Coldbrook, Grand Rapids, Mich.
 Weybrecht's, J. T. Sons, Alliance, O.

Grille or Fret Work (for the Trade Only)

Bigg, B. F. Pump Co., Lafayette, Ind.
 Cream City Sash & Door Co. (for the Trade Only), Milwaukee, Wis.
 Curtis Bros. & Co., Clinton, Ia.
 Curtis & Bartlett Co., Lincoln, Neb.
 Curtis & Yale Co., Wausau, Wis.
 Foster-Munger Co., W 20th & S Sangamon, Chicago, Ill.
 Gauger, John A. & Co., W 22d & Laflin, Chicago, Ill.
 Disbrow, M. A. & Co., Lyons, Ia.
 Gould Mfg. Co., Oshkosh, Wis.
 Harris & Cole Bros., Cedar Falls, Ia.
 McMillen, R. Co., Oshkosh, Wis.
 Morgan Co., Oshkosh, Wis., & W 22d & S Union, Chicago, Ill.
 Paine Lumber Co., Oshkosh, Wis., & 1 Madison av, New York
 Palmer, Fuller & Co., Oshkosh, Wis., & 2244 Lumber, Chicago, Ill.
 Peirce, W. E. & Co., Milford, N. H.
 Roberts, E. L. & Co., W 22d & Union, Chicago, Ill.
 Rock Island Sash & Door Works, Rock Island, Ill.

Grilles (Brass & Bronze)

AJAX IRON & WIRE CO., 75 York, Brooklyn, N. Y. (See adv. index, end of book)
AMOS, CHAS. & CO., 94 W Larned, Detroit, Mich. (See adv. index, end of book)
 Anderson, Henry C., 414 Bleecker, N. Y. book
 Atlanta Wire & Iron Works, 64 N Broad, Atlanta, Ga.
 Balderston, H. & Son, 319 Pearl, Baltimore, Md.
 Barnum, E. T. Wire & Iron Works, 99-105 Shelby, Detroit, Mich.
 Bataille, Achille & Co., 587 Hudson, New York
BIGELOW CHENEY WIRE WORKS, Springfield, Mass. (See adv. index, end of book)
BOLLES, J. E. IRON & WIRE Works, 4th av & Porter, Detroit, Mich. (See adv. index, end of book)
 Booth, John Wire & Iron Works (Brass), 37 Indiana, Chicago, Ill.
BRADLEY & HUBBARD MFG. CO., Meriden, Conn. (See adv. index, end of book)
 Buckley-Hart Mfg. Co., 527 Franklin, Detroit, Mich.
BUFFALO WIRE WORKS CO., Buffalo, N. Y. (See adv. index, end of book)
CABARET, PAUL E. & CO., 342 W 14th, New York. (See adv. index, end of book)
CHICAGO ORNAMENTAL IRON CO., 37th & Stewart av, Chicago, Ill. (See adv. index, end of book)
CINCINNATI MFG. CO., 1243 W 6th, Cincinnati, O. (See adv. index, end of book)
COLUMBUS WIRE & IRON WORKS Co., Columbus, O. (See adv. index, end of book)
DARBY, EDWARD & SONS CO. (Brass), 239 Arch, Phila., Pa. (See adv. index, end of book)

DONOVAN WIRE & IRON CO., Chi- cago st & W. & L. E. R'y, Toledo, O. (See adv. index, end of book)
 Dow Wire & Iron Works, Louisville, Ky.
ESTEY WIRE WORKS CO., 59 Ful- ton, New York. (See adv. index, end of book)
 Flour City Ornamental Iron Works, 27th av & 27th, S, Minneapolis, Minn.
 Gaumer, J. L. Co., 22d & Wood, Phila., Pa.
 Gorham Co., Providence, R. I.
 Gould's, M., Son & Co., 83 Reade, New York, & 61 Hamilton, Newark, N. J.
 Hecla Iron Works, 118 N 11th, Brooklyn, N. Y.
HENRY-BONNARD BRONZE CO., Vernon, N. Y. Sales Offices, 5 & 7 E 42d, New York. (See adv. index, end of book)
 Howard & Morse, 45 Fulton, New York
JACKSON, WM. H. COMPANY, 29 E 17th (Union sq), New York. (See adv. index, end of book)
 Janusch, F. G. (Est. of), 750 E 134th, N. Y.
KAMMAN, WALTER, Front & Law- rence, Cincinnati, O. (See adv. index, end of book)
 Kleeman, Trotter & Co., 1327 Main, Kansas City, Mo.
 Lasar-Letzig Mfg. Co., 1313 N 16th, St. Louis, Mo.
 Lobel-Andrews Co., 531 W 55th, New York
 Manhattan Brass Co., 338 E 28th, N. Y.
 Midland Metal Co. (Inc.), 1427 Catharine, Phila., Pa.
 Mott, J. L. Iron Works, 118 5th av, New York
NATIONAL MFG. CO., Worcester, Mass. (See adv. index & branch offices, end of book)
 Ornamental Iron & Wire Co., Portsmouth, Va.
PITT, WM. R., COMPOSITE IRON Works, 136-138 W 24th, New York. (See adv. index, end of book)
 Richey, Browne & Donald, Maspeth, Borough of Queens, N. Y. City
 Schreiber, L. & Sons Co., 8th & Eggleston av, Cincinnati, O., & 1133 B'way, N. Y.
SMITH, F. P. WIRE & IRON WORKS, 100 Lake, Chicago, Ill. (See adv. index, end of book)
 Snead Arch'l Iron Works, 10th & Hill, Louisville, Ky.
SNEAD & CO., IRON WORKS, Jersey City, N. J. (See adv. index, end of book)
 Standard Co., W 15th & Laflin, Chicago, Ill.
 Stidman & Co., 16 N Frederick, Baltimore, Md.
TAYLOR & DEAN, 205 Market, Pitts- burg, Pa. (See adv. index, end of book)
 Thompson, Hervey, 176 E 119th, New York
TYLER, W. S. CO., Cleveland, O., & 11 B'way, New York. (See adv. index, end of book)



Every Article Bearing this Trade Mark has Distinctive Merit in Craftsmanship and Artistic Finish.

UNION EQUIPMENT AND BRONZE CO.

514-520 WEST 36TH ST. NEW YORK.

WRITE FOR PRICES

VAN KANNEL REVOLVING DOOR Co., Home Office, 524 E 134th, New York. (See adv. index & branch offices, end of book)
VULCAN CO., Detroit, Mich. (See adv. index, end of book)
 Whyte, Oliver & Co., 17 Cornhill, Boston, Mass.
 Williams, John, 556 27th, New York
WINSLOW BROS. COMPANY, Main Office & Works, 2515 W Harrison, Chicago, Ill. (See adv. index & branch offices, end of book)
WISCONSIN IRON & WIRE WORKS, 190 E Water, Milwaukee, Wis. (See adv. index, end of book)
WRIGHT WIRE CO., Worcester, Mass. (See adv. index & branch offices, end of book)

*Grilles (Spring Hinges for)

BOMMER SPRING HINGES

257 to 271 Classon av, Brooklyn, N. Y. (See adv. index, end of book)
 Columbian Hardware Co., Coe & Hamilton Cleveland, O.

Grilles (Wrought Iron)

AJAX IRON & WIRE CO., 75 York, Brooklyn, N. Y. (See adv. index, end of book)
AMOS, CHAS. & CO., 94 W Larned, Detroit, Mich. (See adv. index, end of book)
 Anderson, Henry C., 414 Bleecker, N. Y.
 Atlanta Wire & Iron Works Co., 64 N Broad, Atlanta, Ga.
BAKER MFG. CO., Allegheny & South avs, Allegheny, Pa. (See adv. index, end of book)
 Baldwin Brass Works, 232 S Canal, Chicago, Ill.
 Barbee Wire & Iron Works, 44 Dearborn, Chicago, Ill., & Lafayette, Ind.
 Barnum, E. T. Wire & Iron Works, 99-105 Shelby, Detroit, Mich.
 Bataille, Achille & Co., 587 Hudson, New York
BETHLEHEM FOUNDRY & MACHINE Co., Front, South Bethlehem, Pa. & 149 B'way, New York (See adv. index, end of book)
BIGELOW, CHENEY WIRE WORKS, Springfield, Mass. (See adv. index, end of book)
BOLLES, J. E. IRON & WIRE Works, 4th av & Porter, Detroit, Mich. (See adv. index, end of book)
 Booth, John, Wire & Iron Works, Chicago, Ill.
BRADLEY & HUBBARD MFG. CO., Meriden, Conn. (See adv. index, end of book)
BROWN BROS. MFG. CO., 22d & Campbell av, Chicago, Ill. (See adv. index, end of book)
BUFFALO WIRE WORKS CO., Buf- falo, N. Y. (See adv. index, end of book)
CHAMPION IRON CO., Kenton, O. (See adv. index, end of book)
CHICAGO ORNAMENTAL IRON CO., 37th & Stewart av, Chicago, Ill. (See adv. index, end of book)
CINCINNATI MFG. CO., 1243 W 6th, Cincinnati, O. (See adv. index, end of book)
CITY FORGE & IRON WORKS, An- drew Plocher, Prop., Dayton, O. (See adv. index, end of book)
COLUMBUS WIRE & IRON WORKS Co., Columbus, O. (See adv. index, end of book)
 Cornell, J. B. & J. M. Co., 26th & 11th av, New York
DARBY, EDWARD & SONS CO., 239 Arch, Phila., Pa. (See adv. index, end of book)
DONOVAN WIRE & IRON CO., Chi- cago st & W. & L. E. R'y, Toledo, O. (See adv. index, end of book)
 Dow Wire & Iron Works, Louisville, Ky.
 Edelmann, L., 1805 1st av, New York
ESTEY WIRE WORKS CO., 59 Ful- ton, New York. (See adv. index, end of book)
 Federal Brass & Bronze Co., 1133 B'way, N. Y.
 Flour City Ornamental Iron Works, 27th av & 27th, S, Minneapolis, Minn.
FOREST CITY STEEL & IRON CO., 110th nr Detroit av, Cleveland, O. (See adv. index, end of book)
 Gaumer, J. L. Co., 22d & Wood, Phila., Pa.
 Glen Mfg. Co., Ellwood City, Pa.
HALSTED, JOSEPH CO., 388 W. Ran- dolph, Chicago, Ill. (See adv. index, end of book)
 Hecla Iron Works, 118 N 11th, Brooklyn, N. Y.
 Howard & Morse, 45 Fulton, New York
JACKSON, WM. H. COMPANY, 29 E 17th (Union sq), New York. (See adv. index, end of book)
KAMMAN, WALTER, Front & Law- rence, Cincinnati, O. (See adv. index, end of book)
 Koehn, Alfred, 157 W 29th, N. Y.
LANDON E. R. IRON & WIRE Works, 1243 Fillmore, Chicago, Ill. (See adv. index, end of book)
 Lasar-Letzig Mfg. Co., 1313 N 16th, St. Louis, Mo.
 McKinney, Jas. & Son, 927 B'way, Albany, N. Y.
MERRITT & CO., 1024 Ridge av, Phila., Pa. (See adv. index, end of book)
 Morss & Whyte Co., 76 Cornhill, Boston, Mass.
 Mott, J. L. Iron Works, 118 5th av, New York
 Mugler's Iron Works, 1133 E 136th, New York
 Murdock-Shaw Co., Boston, Mass.
OHIO STRUCTURAL IRON CO., San- dusky, O. (See adv. index, end of book)
 Ornamental Iron & Wire Co. (Inc.), Portsmouth, Va.
 Phoenix Steel Co., Inc., Putnam & P. R. R., Pittsburgh, Pa.

PITT, WM. R. COMPOSITE IRON
Works, 136-138 W 24th, New York. (See adv. index, end of book)
Prinze Iron Works, 553 W 33d, New York
REMPPIS, WM. F. CO., Reading, Pa.
& 1506 Sansom, Phila., Pa. (See adv. index, end of book)
Richey, Browne & Donald, Maspeth, Borough of Queens, N. Y. City
RIESECK, P., Allegheny av & Rebecca, Allegheny, Pa. (See adv. index, end of book)
Schreiber, L. & Sons Co., 8th & Eggleston av, Cincinnati, O., & 1133 B'way, N. Y.
SMITH, F. P., WIRE & IRON WORKS, 100 Lake, Chicago, Ill. (See adv. index, end of book)
Snead Arch'l Iron Works, Louisville, Ky.
SNEAD & CO. IRON WORKS, Jersey City, N. J. (See adv. index, end of book)
Standard Co., W 15th & Laffin, Chicago, Ill.
TAYLOR & DEAN, 205 Market, Pittsburgh, Pa. (See adv. index, end of book)
Thompson, Hervey, 176 E 119th, N Y
Titchener, E. H. & Co., Binghamton, N. Y.
TYLER, W. S. CO., Cleveland, O. & 11 B'way, New York (See adv. index, end of book)

UNION EQUIPMENT AND BRONZE CO.

520 W 36th, N. Y. (See adv. outside stencil)
UNION FOUNDRY WORKS, First National Bank bldg, Chicago, Ill. (See adv. index, end of book)
Union Iron Works Co., Colerain av c Sassafras, Cincinnati, O.
Van Dorn Iron Works Co., 2685 E 79th, Cleveland, O.
Vilsack, Martin Co. (Ltd.), 3222 Penn av, Pittsburgh, Pa.
VULCAN CO., Detroit, Mich. (See adv. index, end of book)
Wayne Iron Works (Inc.), Arcade bldg, Phila., Pa.
West Coast Wire & Iron Works, San Francisco, Cal.
Westervelt, A. B. & W. T., 102 Chambers, New York
West Side Structural Co., Troy, N. Y.
White Bros. Mfg. Co. (successors to the Denver Iron & Wire Works Co.): Office, 209 Continental Bldg.; Works, W 12th av & S 4th, Denver, Col.
Williams, John, 556 W 27th, New York
WINSLOW BROS. COMPANY, Main Office & Works, 2515 W Harrison, Chicago, Ill. (See adv. index & branch offices, end of book)
WISCONSIN IRON & WIRE WORKS, 109 E Water, Milwaukee, Wis. (See adv. index, end of book)
WRIGHT WIRE CO., Worcester, Mass. (See adv. index, end of book)

Grinders (Band Saw)

Baldwin, Tuthill & Bolton, Grand Rapids, Mich.
Lake Sborc Engine Works, Marquette, Mich.
Wickes Bros., Saginaw, Mich.

Grinders (Bench)

Bridgeport Safety Emery Wheel Co., Bridgeport, Conn.

Buffalo Emery Wheel Co., 14 Lock, Buffalo, New York
Carroll-Jamieson Machine Tool Co. (Bench Grinder & polisher), Batavia, O.
Challenge Machine Co., 5036 Hazel av, Phila., Pa.
Clizbe Bros. Mfg. Co. ("Crown"), Plymouth, Ind.
Cutter, Wood & Stevens Co., 68 Pearl, Boston, Mass.
Diamond Machine Co., Providence, R. I.
Faneuil Watch Tool Co. (Fast Speed Internal), 1 Brooks Br., Boston, Mass.
MANNING, MAXWELL & MOORE (Tool), 85 Liberty, New York. (See adv. index, end of book)
NORTON CO., Worcester, Mass. (See adv. index & branch offices, end of book)
Rivett Lathe Mfg. Co. (Fast Speed Internal), Brighton, Boston, Mass.
Springfield Mfg. Co., Bridgeport, Conn.
Sterling Emery Wheel Mfg. Co., Tiffin, O.
Tanite Co., Stroudsburg, Pa.
VITRIFIED WHEEL CO., Westfield, Mass. (See adv. index, end of book)
Webster & Perks Tool Co. (Self-Oiling), Springfield, O.

Grinders (Brick Bat)

Wellington Machine Co., Wellington, O.

*Grinders (Calender Roll)

HAMPDEN CORUNDUM WHEEL CO., Brightwood, Springfield, Mass. (See adv. index, end of book)

Grinders (Car Wheel)

Bridgeport Safety Emery Wheel Co., Bridgeport, Conn.
HAMPDEN CORUNDUM WHEEL CO., Brightwood, Springfield, Mass. (See adv. index, end of book)
Springfield Mfg. Co., Bridgeport, Conn.

Grinders (Center)

Clark, Jas. Jr., & Co. (Electrically Driven), 313 W Main, Louisville, Ky.
Diamond Machine Co. ("Simplex"), Providence, R. I.
Gem Mfg. Co. ("Gem" Flexible Shaft), Pittsburgh, Pa.

Grinders (Cinder & Ore)

Hill, Albert M., New Haven, Conn.

Grinders (Clay)

(See Clay Grinding Machines.)

Grinders (Cock)

Automatic Valve Grinding Machine Co. (Automatic), Knoxville, Tenn.
Milwaukee Cock Grinder Co. (The "Milwaukee"), Layton Park, Milwaukee, Wis.
Pratt & Whitney Co., Hartford, Conn.
Turner Machine Co. (Automatic), 2049 N 2d, Phila., Pa.
Warner & Swasey Co., Cleveland, O.

Grinders (Cup, Cone & Hub)

Bridgeport Safety Emery Wheel Co. (Cup Only), Bridgeport, Conn.
Norton Emery Wheel Co., Worcester, Mass.
Pratt & Whitney Co., Hartford, Conn.
Springfield Mfg. Co., Bridgeport, Conn.

Grinders (Cutter)

(See Grinders, Reamer & Cutter.)

Grinders (Disc)

Baydon Machine & Tool Co., 18 Morris, Jersey City, N. J.
Besly, Chas. H. & Co. ("Besly" Double Disc), 15 S Clinton, Chicago, Ill.
BROWN, A. & F. CO., 25 Dey, New York. Works: Elizabeth, N. J. (See adv. index, end of book)
Baydon Machine & Tool Co., 20 Morris, Jersey City, N. J.
Challenge Machine Co., 5036 Hazel av, Phila., Pa.
Clizbe Bros. Mfg. Co., Plymouth, Ind.
Diamond Machine Co. ("Gorton" Universal), Providence, R. I.
DODGE MFG. CO., Mishawaka, Ind. (See adv. index & branch offices, end of book)
FREVERT MACHINERY CO., 18 Dey, New York. (See adv. index, end of book)
Gardner Machine Co. ("F. N. Gardner's Improved"), Beloit, Wis.
Heald Machine Co., Worcester, Mass.
Iroquois Machine Co., Providence, R. I., & 150 Nassau, N. Y.
O. K. Tool Holder Co., Shelton, Conn.
Phoenix Iron Works Corp. ("Phoenix"), Hartford, Conn.
TUOHY BROS. CO., 95 Liberty, New York. (See adv. index, end of book)
Walker Mfg. Co. ("Novelty"), Council Bluffs, Ia.
Western Implement Co., Port Washington, Wis.

Grinders (Drill)

Challenge Machine Co., 5036 Hazel av, Phila., Pa.
Diamond Machine Co. ("American"), Providence, R. I.
Dwight Slate Machine Co., Hartford, Conn.
FREVERT MACHINERY CO., 18 Dey, New York. (See adv. index, end of book)
Garvin Machine Co., 137 Varick, N. Y.
Gorton, Geo. Machine Co., Racine, Wis.
Heald Machine Co. ("American," Twist Drill), Worcester, Mass.
Ideal Machine Works ("Ideal"), 255 39th, Brooklyn, N. Y.
Ideal Machine Works (Ideal Twist Drill), 257 39th, Brooklyn, N. Y.
Johnson, Israel H. Jr. Co., 1422 Callowhill, Phila., Pa.
Landis Tool Co., Waynesboro, Pa.
MANNING, MAXWELL & MOORE, ("Dahl"), 85 Liberty, New York. (See adv. index & branch offices, end of book)
MORSE TWIST DRILL & MACHINE Co. (Twist Drill), New Bedford, Mass. (See adv. index, end of book)
Niles-Bement-Pond Co., 111 B'way, New York
NORTON CO., Worcester, Mass. (See adv. index, end of book)

TO OUR ADVERTISERS AND SUBSCRIBERS.

At any time during the year, that you do not find classified in our book the names and addresses of the Manufacturers of any ARTICLE you are in the market to PURCHASE, please write us, giving as complete particulars as possible, and we will always endeavor to render you PROMPT SERVICE in furnishing you the names and addresses of such Manufacturers and without any cost or obligation. This does not include Mailing Lists.

S. E. HENDRICKS CO.

Pratt & Whitney Co., Hartford, Conn.
Sellers, Wm. & Co. (Inc.), 1600 Hamilton,
Phila., Pa.
Sterling Emery Wheel Mfg. Co., Tiffin, O.
TUOHY BROS. CO., 95 Liberty, New
York. (See adv. index, end of book)
VITRIFIED WHEEL CO., Westfield,
Mass. (See adv. index, end of book)
Wilmarth & Morman Co. (New Yankee), Grand
Rapids, Mich.

Grinders (Edging)

(See also Mills, Bark.)

ALLIS-CHALMERS CO., Milwaukee,
Wis. (See adv. index & branch offices, end
of book)
Bartlett, A. F. & Co., Saginaw, Mich.
Bridgeport Safety Emery Wheel Co., Bridge-
Mitts & Merrill, Saginaw, Mich. port, Conn.
Shaw, Noah & Co., Eau Claire, Wis.
Union Iron Works, Bangor, Me.
Wickes Bros. (also Slab & Lap), Saginaw, Mich.

*Grinders (Electric)

CHICAGO PNEUMATIC TOOL CO.
"Duntley", Fisher Bldg., Chicago, Ill. (See
adv. below)

Grinders (Electric Portable)

Cincinnati Electrical Tool Co., Cincinnati, O.
United States Electric Tool Co. (Hand), 451 E
2d, Cincinnati, O.

Grinders (Emery)

Barnes, B. F. Co. (Tool), Rockford, Ill.
Bath Grinder Co. ("Universal"), Fitchburg,
Boss Mfg. Co., Cohoes, N. Y. Mass.
Challenge Machine Co., 5036 Hazel av., Phila.,
Pa.
Cordesman Machine Co., 25 Butler, Cincin-
nati, O.
Cordesman, Meyer & Co., 55 Central av, Cin-
cinnati, O.
Cowdrey, C. H. Machine Works, Fitchburg,
Mass.
Diamond Machine Co., Providence, R. I.

Emerson, Smith & Co. (Ltd.), Beaver Falls, Pa.
Frank Machinery Co., 50 Mechanic, Buffalo,
N. Y.
FREVERT MACHINERY CO., 18 Dec,
New York. (See adv. index, end of book)
Gem Mfg. Co. ("Gem," Portable, Flexible
Shaft), Pittsburg, Pa.
Gillie Engine & Machine Co. ("Tonawanda"
Double), Tonawanda, N. Y.
Glascock, G. T. & Sons, Greensboro, N. C.
Globe Foundry & Machine Co. (Wheel), She-
boygan, Mich.
Goodnow, L. H. Foundry Co., Fitchburg, Mass.
Grant Mfg. & Machine Co., Bridgeport, Conn.
HAMPDEN CORUNDUM WHEEL CO.,
Brightwood, Springfield, Mass. (See adv.
index, end of book)

Herrick & Cowell, New Haven, Conn.
Hoil Mfg. Co., 333 Main, Buffalo, N. Y.
Huntsville Foundry & Machine Works (Nolan &
Jones, Props.), Huntsville, Ala.
Lancaster Peerless Emery Wheel Co. ("Peer-
less," Wet or Dry), Lancaster, Pa.
Maslin, Jno. & Son, 169 1st, Jersey City, N. J.
Northampton Emery Wheel Co., Leeds, Mass.
NORTON CO., Worcester, Mass. (See
adv. index & branch offices, end of book
Patterson Tool & Supply Co. ("Patterson"), Day-
ton, O.

Queen City Punch & Shear Co. ("Heinss" ILX)
208 Lawrence, Cincinnati, O.
Rogers, Saml. C. & Co., 10 Lock, Buffalo, N. Y.
Safety Emery Wheel Co., Springfield, O.
Slotkin & Mayer, 210 Canal, New York
Smith, H. B. Machine Co., Smithville, N. J.,
& 121 Liberty, New York

Spicer Mfg. Co., New Philadelphia, O.
Springfield Mfg. Co., Bridgeport, Conn.
Standish Machine & Supply Co., Columbus, O.
Star Corundum Wheel Co., Detroit, Mich.
Sterling Emery Wheel Mfg. Co., Tiffin, O.
Tanite Co., Stroudsburg, Pa.

TUOHY BROS. CO., 95 Liberty, New
York. (See adv. index, end of book)
Union Mfg. & Specialty Co. ("Union" Foot
Power), Buffalo, N. Y.

VITRIFIED WHEEL CO., Westfield,
Mass. (See adv. index, end of book)

Western Electric Co (Electric), 259 S. Clinton,
Chicago, Ill. & 57 Bethune, New York
WILCOX MFG. CO. ("Velox"), Aurora,
Ill. (See adv. index, end of book)

Grinders (Face)

Brown & Sharpe Mfg. Co., Promenade nr Park,
Providence, R. I.
Diamond Machine Co., Providence, R. I.
Heald Machine Co., Worcester, Mass.
Iroquois Machine Co., Providence, R. I., &
150 Nassau, N. Y.
Landis Tool Co., Waynesboro, Pa.
MORSE TWIST DRILL & MACHINE
Co., New Bedford, Mass. (See adv. index,
end of book)
NORTON CO., Worcester, Mass. (See
adv. index & branch offices, end of book)

Grinders (Feed)

(See Mills, Feed Grinding)

*Grinders (Floor)

NORTON CO., Worcester, Mass. (See
adv. index & branch offices, end of book)

Grinders (Foot & Hand Power)

Chicago Wheel & Mfg. Co., 45 W Randolph,
Chicago, Ill.
Clizbe Bros. Mfg. Co., Plymouth, Ind.
Robertson Mfg. Co., Buffalo, N. Y.

Grinders (Huller Knife)

Carver Cotton Gin Co. (for Cotton Seed Hull-
ers), East Bridgewater, Mass.

Grinders (Knife & Scissors)

Arcade Mfg. Co. ("Schofield," "Scientific,"
"Acme" Hand & Foot Power), Freeport, Ill.
Olmstead, L. H. ("Olmstead's" Grinders &
Sharpeners), Hasbrouck Heights, N. J.
Safety Emery Wheel Co., Springfield, O.



MADE IN TWO SIZES FOR 5 IN. AND 8 IN. WHEELS.
SPEED 4000 AND 2500 RESPECTIVELY,

DUNTLEY ELECTRIC GRINDERS

FOR ALL CLASSES OF WORK WHERE A PORTABLE
GRINDER IS REQUIRED. THEY ARE STRONG,
DURABLE AND EFFICIENT.

WOUND FOR 110, 220 AND 550 VOLTS D. C. AND A. C.;
SENT ON TRIAL ANYWHERE TO RESPONSIBLE PARTIES.
WRITE FOR CATALOG AND PRICES.

CHICAGO PNEUMATIC TOOL CO.

CHICAGO—NEW YORK

MANUFACTURERS

Air Compressors, Pneumatic Tools, Electric Drills, Etc.

NORTON GRINDING WHEELS

ARE MADE OF
ALUNDUM



ALUNDUM

A THREE CORNERED ARGUMENT for NORTON GRINDING WHEELS

The purity and uniformity of ALUNDUM are under absolute control. Grinding Wheels made of this material must naturally be more uniform and even throughout than when made of natural or artificial abrasives which vary in purity and uniformity.

ADAPTED FOR ALL GRINDING PURPOSES.

GRINDING MACHINERY

INDIA OIL STONES

NORTON COMPANY

Main Works: WORCESTER, MASS., U. S. A.

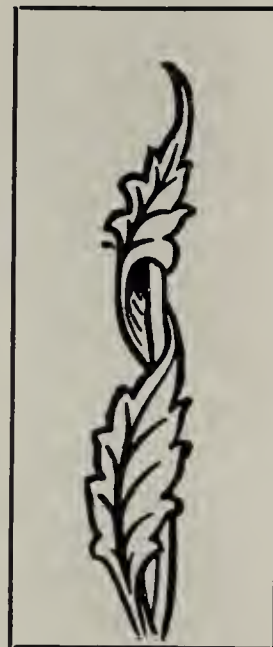
NIAGARA FALLS

NEW YORK

CHICAGO

FOREIGN AGENTS:

CHARLES CHURCHILL & CO., London, Birmingham, Manchester, Glasgow, Newcastle-on-Tyne; BUCK & HICKMAN, London, Birmingham, Manchester, Glasgow; SCHUCHARDT & SCHÜTTE, Berlin, Vienna, Stockholm, St. Petersburg, Shanghai; A. H. SCHÜTTE, Cologne, Brussels, Paris, Bilbao, Barcelona, Liege, Milan; F. W. HORNE, Yokohama.



PURE CORUNDUM

is nature's own production and still stands unequalled although there are numerous imitations. The leading Machine Tool Builders are fast becoming acquainted with this fact, with the result that Pure Corundum Wheels are fast being adapted by this class of people.

Our Pure Corundum Wheels are also being recommended to their customers by importers and manufacturers of high grade steel for no other reason than that the wheels are so free and cool cutting.

Have you given them a trial ?

THE VITRIFIED WHEEL CO., Westfield, Mass.

Grinders (Lathe Center)

Diamond Machine Co., Providence, R. I.
 Dock Herman, 905 N. Carlisle, Phila., Pa.
 Pratt & Whitney Co., Hartford, Conn.
 Trump Bros. Machine Co., Wilmington, Del.

Grinders (Machine Tool)

(See Grinders, Various Kinds.)

Grinders (Mill Pick)

Bullock, Chas. K., 1361 Ridge av., Phila., Pa.

*Grinders of Minerals, Clays, Etc.

WILBUR, JOB CO. (Job Grinding in Car Load Lots). Office, Providence, R. I.; Factory, Phila., Pa. (See adv. index, end of book)

Grinders (Plain Tool)

Baker-Reseck Machine Tool Co., 261 Quincy, Cleveland, O.

Barnes, B. F. Co., Rockford, Ill.
 Barnes, W. F. & John Co., Rockford, Ill.
 Blount, J. G. Co., Everett, Mass.

Bridgeport Safety Emery Wheel Co. (Emery Wheel), Bridgeport, Conn.

Brown & Sharpe Mfg. Co., Providence, R. I.

Bullock, C. K., 1357 Ridge av., Phila., Pa.

Cady, Chas. N., Canastota, N. Y.

Carroll-Jamieson Machine Tool Co., Batavia, O.

Challenge Machine Co., 5036 Hazel av., Phila., Pa.

Cincinnati Milling Machine Co., Spg. Grove av & Alfred, Cincinnati, Ohio

Clizbe Bros. Mfg. Co. ("Crown"), Plymouth, Ind.

Diamond Machine Co. (Bench Tools, etc.), Providence, R. I.

Dwight Slate Machine Co., Hartford, Conn.

Field, Chas. H., Providence, R. I.

Foot, Burt & Co., 4101 St. Clair, Cleveland, O.

Frasco Co., 134 Liberty, New York

FREVERT MACHINERY CO., 18 Dey, New York. (See adv. index, end of book)

Garvin Machine Co., 137 Varick, N. Y.

GISHOLT MACHINE CO. ("Universal Lathe & Planer"), Madison, Wis. (See adv. index & branch offices, end of book)

Gould & Eberhard, Newark, N. J.

Iroquois Machine Co., Providence, R. I., & 150 Nassau, N. Y.

Johnson, Ishael H., Jr., Co., 1422 Callowhill, Landis Tool Co., Waynesboro, Pa. Phila., Pa.

Luther Bros. Co. (Hand & Foot Power), No. Modern Tool Co., Erie, Pa. Milwaukee, Wis.

MORSE TWIST DRILL & MACHINE Co., New Bedford, Mass. (See adv. index, end of book)

Niles-Bement-Pond Co., 111 B'way, New York

Northampton Emery Wheel Co., Leeds, Mass.

NORTON CO., Worcester, Mass. (See adv. index & branch offices, end of book)

Osterlein Machine Co., Cincinnati, O.

Pratt & Whitney Co., Hartford, Conn.

Ransom Mfg. Co. (Vulcan), Oshkosh, Wis.

Resek Machine Tool Co., 261 Quincy, Cleveland, O.

St. Louis Machine Tool Co., 1114 S 8th, St. Louis, Mo.

Safety Emery Wheel Co., Springfield, O.

Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Phila., Pa.

Springfield Mfg. Co., Bridgeport, Conn.

Star Corundum Wheel Co., Detroit, Mich.

Sterling Emery Wheel Mfg. Co., Tiffin, O.

Tabor Mfg. Co. ("Taylor"), 1740 Hamilton, Phila., Pa.

Tucker Machine Co., 222 E 9th, Cincinnati, O.

TUOHY BROS. CO., 95 Liberty, New York. (See adv. index, end of book)

Union Mfg. Co. (Automatic), Buffalo, N. Y.

VITRIFIED WHEEL CO., Westfield, Mass. (See adv. index, end of book)

Walker Grinder Co., Worcester, Mass.

Webster & Perks Tool Co. (W. & P.), Springfield, O.

Western Implement Co., Port Washington, Wis.

Whitney Mfg. Co., Hartford, Conn.

Zucker & Levett & Loeb Co., 530 W 25th, N. Y.

Grinders (Planer Knife)

American Twist Trill Co. (Automatic), Laconia, N. H.

American Woodworking Machinery Co., Rochester, N. Y., West st. bldg. New York

Atlantic Works (Inc.), 2821 Oakford rd, Phila., Pa.

Baldwin, Tuthill & Bolton, Grand Rapids, Mich.

Bentel & Margedant Co. (Wet & Dry), Hamilton, O.

Bridgeport Safety Emery Wheel Co., Bridgeport, Conn.

Capitol Machine Wks. (Automatic), Indianapolis, Ind.

Carver Cotton Gin Co. (Wet & Dry), E Bridge-water, Mass.

Cutter, Wood & Stevens Co., 68 Pearl, Boston, Mass.

DEFIANCE MACHINE WORKS, Defiance, O.

Hickok, W. O. Mfg. Co., Harrisburg, Pa.

Holmes, E. & B. Machinery Co., Buffalo, N. Y.

Niles-Bement-Pond Co., 111 B'way, New York

Powers, Wm. T. & Son, Grand Rapids, Mich.

Rogers, Samuel C. & Co. ("Buffalo"), 10 Lock, Buffalo, N. Y.

Saxon Machine Co., Holyoke, Mass.

Seybold Machine Co., Dayton, O.; 312 Dear-born, Chicago, Ill., & 70 Duane, N. Y.

Smith, H. B. Machine Co., Smithville, N. J., & 121 Liberty, N. Y.

Trevor Mfg. Co., Lockport, N. Y.

Walker Grinder Co., Worcester, Mass.

Woods, S. A. Machine Co., 445 Dorchester, Boston, Mass.

Grinders (Portable)

Brown, Harold P. (Hand Power), 120 Liberty, New York

Chicago Flexible Shaft Co., Lassalle av & Ontario, Chicago, Ill.

CHICAGO PNEUMATIC TOOL CO. (Operated Either by Compressed Air or Electricity), Fisher bldg. Chicago, Ill. (See adv. on preceding page; branch offices, end of book)

Diamond Machine Co., Providence, R. I.

Hisey-Wolf Machine Co. (Electrical Driven), Cincinnati, O.

Royal Mfg. Co. (Hand Power, Carborundum), Lancaster, Pa.

Stow Flexible Shaft Co., N 26th & Buttonwood, Phila., Pa.

Stow Mfg. Co., Binghamton, N. Y.

Grinders (Reamer & Cutter)

Adams Co. ("The Farwell Cutter"), Dubuque, Iowa

Anderson Tool Co., Anderson, Ind.

Becker, Brainard Milling Machine Co., Hyde Park, Mass.

Brown & Sharpe Mfg. Co., Providence, R. I.

Cincinnati Milling Machine Co., Spring Grove av & Alfred, Cincinnati, Ohio

Clough, R. M., Tolland, Conn.

COATES CLIPPER MFG. CO. ("Coates" Flexible Shaft), Worcester, Mass. (See adv. index, end of book)

Disston, Henry & Sons (Inc.), Tacony, Phila., Pa.

Dwight Slate Machine Co., Hartford, Conn.

Faneuil Watch Tool Co. (Cutter), 1 Brooks Br., Boston, Mass.

FREVERT MACHINERY CO., 18 Dey, New York. (See adv. index, end of book)

Garvin Machine Co., 137 Varick, N. Y.

Greenfield Machine Co., Greenfield, Mass.

Heald Machine Co., Worcester, Mass.

Hisey-Wolf Machine Co. (Portable Electric), Cincinnati, O.

Landis Tool Co., Waynesboro, Pa.

Mixer, J. W. Saw Tool Co. ("Mixer" Gummer Cutter Grinder), Plymouth, Mass.

National Machine Co. (Cutter), Hartford, Conn.

Niles-Bement-Pond Co., 111 B'way, New York

Northampton Emery Wheel Co., Leeds, Mass.

NORTON CO., Worcester, Mass. (See adv. index & branch offices, end of book)

Osterlein Machine Co., 2850 Spring Grove av, Pratt & Whitney Co., Hartford, Conn.

Putnam Machine Co., Fitchburg, Mass.

Rivett Dock Co., Boston, Mass.

Rivett Lathe Mfg. Co. (Cutter), Brighton, Boston, Mass.

Russell Mfg. Co. (Side, Angular & Face Milling Cutters), Binghamton, N. Y.

TUOHY BROS. CO., 95 Liberty, New York. (See adv. index, end of book)

Walker Grinder Co., Worcester, Mass.

Wells, F. E. & Son Co., Greenfield, Mass.

Grinders (Roll)

Diamond Machine Co. (Spindle & Roll), Providence, R. I.

HAMPDEN CORUNDUM WHEEL CO., Brightwood, Mass. (See adv. index, end of book)

Harrington, E. Son & Co., 17th & Callowhill, Philadelphia, Pa.

Lobdell Car Wheel Co., Wilmington, Del.

Springfield Mfg. Co., Bridgeport, Conn.

Grinders (Rotary Shear)

Bridgeport Safety Emery Wheel Co., Bridgeport, Conn.

Springfield Mfg. Co., Bridgeport, Conn.

Grinders (Sample Ore)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

Davis, F. M. Iron Works Co., 8th & Larimer, Denver, Col.

Denver Engineering Works Co., Blake & 30th, Denver, Col.

Engelbach Machine Mfg. Co., Leadville, Col.

Mine & Smelter Supply Co., Denver, Colo.

Power & Mining Machinery Co., 52 William, New York. Works, Cudahy, Wis.

Union Iron Works, San Francisco, Cal.

Grinders (Sand)

Wetherill, R. & Co., Chester, Pa.

Grinders (Saw)

Covel Mfg. Co. (Band Saw), Benton Harbor, Mich.

Hinds, Thos., Malone, N. Y.

Quincey-Manchester-Sargent Co. (Automatic), Old Colony bldg, Chicago, Ill., & 114 Liberty,

Grinders (Sickle)

(See Sickle & Mower Knife Grinders)

Grinders (Silica or Chillian Mill)

Power & Mining Machinery Co., 52 William, New York. Works, Cudahy, Wis.

Grinders (Spur)

Kline, Lewis T., Alpena, Mich.

Grinders (Surface)

Besly, Chas. H. & Co. ("Besly" Flat Surface), 15 S Clinton, Chicago, Ill.

Bignall & Keeler Mfg. Co., Edwardsville, Ill.

Bridgeport Safety Emery Wheel Co., Bridgeport, Conn.

Brown & Sharpe Mfg. Co., Providence, R. I.

Challenge Machine Co., 5036 Hazel av, Phila., Pa.

Clizbe Bros. Mfg. Co. ("Crown"), Plymouth, Ind.

Clough, R. M., Tolland, Conn.

Diamond Machine Co. (Automatic, Hand, etc.), Providence, R. I.

FREVERT MACHINERY CO., 18 Dey, New York. (See adv. index, end of book)

Garvin Machine Co., 137 Varick, N. Y.

Heald Machine Co., Worcester, Mass.

Hisey-Wolf Machine Co. (Portable Electric), Cincinnati, O.

Iroquois Machine Co., Providence, R. I., & 150 Nassau, N. Y.

Landis Tool Co., Waynesboro, Pa.

Long & Alistatter Co. (Side Grinding for Flat Surfaces), Hamilton, O.

National Machine Co., Hartford, Conn.

Niles-Bement-Pond Co., 111 B'way, New York

Rudolphie & Krummel, 98 N Clinton, Chicago, Ill.

Saxon Machine Co., Holyoke, Mass.

Springfield Mfg. Co., Bridgeport, Conn.

Tanite Co., Stroudsburg, Pa.

TUOHY BROS. CO., 95 Liberty, New York. (See adv. index, end of book)

Walker Grinder Co. (Walker Ideal Automatic Motor Drivers), Worcester, Mass.

Grinders (Swing Frame)

Bridgeport Safety Emery Wheel Co., Bridgeport, Conn.

Cutter, Wood & Stevens Co., 68 Pearl, Boston, Mass.

Springfield Mfg. Co., Bridgeport, Conn.

Sterling Emery Wheel Mfg. Co., Tiffin, Ohio

When writing to firms listed in this book please mention HENDRICKS' COMMERCIAL RECISTER

Grinders (Tool)

(See Grinders, Plain Tool; also Grinders, Wet Tool)

Grinders (Tool Post)

Grant Mfg. & Machine Co. (& Internal), Bridgeport, Conn.

Grinders (Twist Drill)

(See Grinders, Drill.)

Grinders (Universal)Brown & Sharpe Mfg. Co., Providence, R. I.
Diamond Machine Co., Providence, R. I.**GISHOLT MACHINE CO. (For Lathe & Planer Tools)**, Madison, Wis. (See adv. index & branch offices, end of book)

Greenfield Machine Co., Greenfield, Mass.

Iroquois Machine Co., Providence, R. I., & 150 Nassau, N. Y.

Landis Tool Co., Waynesboro, Pa.

NORTON CO. (Tool & Cutter), Worcester, Mass. (See adv. index & branch offices, end of book)

Springfield Mfg. Co., Bridgeport, Conn.

Walker Grinder Co., Worcester, Mass.

Waterbury Farrell Foundry & Machine Co., Waterbury, Conn.

Grinders (Universal Tool & Cutter)*NORTON CO., Worcester, Mass.** (See adv. index & branch offices, end of book)***Grinders (Valve)****CLEVELAND PNEUMATIC TOOL CO.** ("Cleveland" Portable), 6410 Hawthorne av. Cleveland, O. (See adv. index & branch offices, end of book)**Grinders (Vertical)**

Diamond Machine Co. (also with Polishing Drum), Providence, R. I.

Grinders (Wet Tool)

Barnes, B. F. Co., Rockford, Ill.

Blount, J. G. & Co., Everett, Mass.

Bridgeport Safety Emery Wheel Co., Bridgeport, Conn.

Challenge Machine Co., 5036 Hazel av, Phila., Pa.

Clark, Jas. Jr., & Co. (Electrically Driven), 313 W Main, Louisville, Ky.

Diamond Machine Co., Providence, R. I.

Gould & Eberhardt, Newark, N. J.

Heald Machine Co., Worcester, Mass.

Northampton Emery Wheel Co., Leeds, Mass.

Queen City Punch & Shear Co. ("Heinss," Emery), 208 Lawrence, Cincinnati, O.

Ransom Mfg. Co. (Belt or Motor Driven), Oshkosh, Wis.

Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Phila., Pa.

Tucker Machine Co., 222 E 9th, Cincinnati, O.

Walker, O. S. & Co. ("Globe," Water Tool), Worcester, Mass.

Washburn Shops (Drill), Worcester, Mass.

Whitney Mfg. Co., Hartford, Conn.

Wilmarth & Morman Co. (Electrically Driven), Grand Rapids, Mich.

Grinders (Wood Pulp)

Dayton Globe Iron Works Co., Dayton, Ohio

Dilts Machine Works, Fuiton, N. Y.

Friction Pulley & Machine Works, Sandy Hill, N. Y.

Holyoke Machine Co., Holyoke, Mass.

Pusey & Jones Co., Wilmington, Del.

Scott, Olin, Bennington, Vt.

Valley Iron Works Co., Appleton, Wis.

Grinding Attachment for Engine Lathes*NORTON CO., Worcester, Mass.** (See adv. index & branch offices, end of book)***Grinding Wheel Dressers****NORTON CO., Worcester, Mass.** (See adv. index & branch offices, end of book)***Grinding Wheels (Alundum)****NORTON CO., Worcester, Mass.** (See adv. index & branch offices, end of book)**Grindstone Boxes & Frames**

American Tool & Machine Co., 109 Beach, Boston, Mass.

Athol Machine Co. (Iron), Athol, Mass.

DEFIANCE MACHINE WORKS (Iron), Defiance, Ohio. (See adv. index, end of book)

Cleveland Stone Co. (Grindstone Frames), Hickox bldg, Cleveland, O.

Grabo, E. O., 180 Centre, New York

Hoppen, J. E. & Sons (Iron), Belleville, N. J.

Howard Iron Works (Iron), Buffalo, N. Y.

Putnam Machine Co., Fitchburg, Mass.

San Francisco Tool Works, 27 Stevenson, San Francisco, Cal.

Sellers, Wm. & Co. (Inc.), (Iron), 1600 Hamilton, Philadelphia, Pa.

Smith, H. B. Machine Co. (Iron), Smithville, N. J., & 121 Liberty, New York

Grindstone Fixtures

Cronk & Carrier Mfg. Co., Elmira, N. Y.

NATIONAL SUPPLY CO., 7 W Lombard, Baltimore, Md. (See adv. index, end of book)

Dean Hardware Co., Reading, Pa.

Pieuger & Henger Mfg. Co., 11th & Hebert, St. Louis, Mo.

Stowell Mfg. & Foundry Co., South Milwaukee, Wis.

Susquehanna Casting Co., Wrightsville, Pa.

Weller Hdw. & Fdry. Co., Horseheads, N. Y.

WHITMAN & BARNES MFG. CO., Chicago, Ill. (See adv. index & branch offices, end of book)**WILCOX MFG. CO., Aurora, Ill.** (See adv. below)

Wrightsville Hardware Co., Wrightsville, Pa.

Wileox Manufacturing Co.,



MOUNTED GRINDSTONES LOOSE

WIRE STRETCHERS
 ROLLING STEP LADDERS
 AUTOMATIC FIRE DOOR FIXTURES
 OVERHEAD CARRIERS

House, Barn, Factory and Elevator

DOOR HANGERS

OF EVERY DESCRIPTION

OVER 300 SPECIALTIES—ALL BUSINESS GETTERS

OUR CATALOGUE WILL INTEREST YOU

It is sent for the asking

AURORA, ILL.

Grindstones

Atlantic Grindstone, Coal & Railway Co. (Ltd.)
(Nova Scotia), Providence, R. I.
Bronson & Townsend Co., 406 State, New Haven
Conn.
Buffalo Foundry Supply Co., 339 Babcock, Buf-
falo, N. Y.
Cleveland Stone Co., Hickox bldg, Cleveland, O.
Dayton Roll & Winger Co., Dayton, O.
Everhard Co., Massillon, O.
Francis & Co., 859 Main, Hartford, Conn.
Garrett, James & Co., 1432 S Penn sq, Phila.,
Gordon Metal Co., Richmond, Va.
Grafton Stone Co. (Also Scythe Stones), Ely-
ria, O.
Independent Stone Co., Cuyahoga bldg, Cleve-
land, O.
Kirk Grindstone Co., 1652 Dor, a, Cincin-
natl, O.
Lombard & Co. (Nova Scotia), 23- A, Boston.
Mass.
McCroden, Jno. & Co., 33 West, New York
Maricette Stone Co. (Inc.), (for Saw & Edge
Tools), Mariette, O.
Mitchell, Wilson, 605 N Front, Phila., Pa.
Morris, E. K. & Co., 317 W 2d, Cincinnati, O.
OHIO QUARRIES CO., 818 Euclid av,
Cleveland, O., & 1 Madison, N. Y. Quar-
ries & Mills, Amherst, O.
Penn Hardware Co. (Kitchen), Reading, Pa.
Pike Mfg. Co., 151 Chambers, N. Y., & Pike
Station, N. H.
**RICHARDS MFG. CO. (Mounted, Ball
Bearing), Aurora, Ill.** (See adv. index, end
of book)
Smith's Jno. E. Sons Co., Buffalo, N. Y.
Wallace Co., Port Austin, Mich.
WHITMAN & BARNES MFG. CO.
(Tubular Frame, etc.), Chicago, Ill. (See
adv. index & branch offices, end of book)
**WILCOX MFG. CO. (Mounted &
Loose), Aurora, Ill.** (See adv. on preceding
page)

*Grindstones (Kitchen)

WILCOX MFG. CO., Aurora, Ill. (See
adv. on preceding page)

Grips (Cable)

Hazard Mfg. Co. (for Coal Cars or Mine
Wagons), Wilkes-Barre, Pa.
Litchfield Foundry & Machine Co. ("Morgan's"),
Litchfield, Ill.
Universal Cable Grip Co. ("Universal" for un-
derground or aerial Cables), Syracuse, New
York

Grips (Chain Tire)

Weed Chain Tire Grip Co., 28 N Moore, New
York

Grips (Nail)

Vaughn & Busbnell (V" & B." Eight Steel
Fingers), 875 W Carroll av, Chicago, Ill.

Grips (Steering Lever)

American Enamel Co., Neville, Providence, R. I.
Goodrich, B. F. Co., Akron, O.
Mesinger Mfg. Co., 1801 1st av, New York
Woodworth Bros., Newton Highlands, Mass.

Grommet Inserting Dies & Cutters

Wilcox, Crittenden & Co., Middletown, Conn.

Grommets (Metal)

Berbecker & Rowland Mfg. Co., Waterbury,
Dayton Mfg. Co., Dayton, O. Conn.
Jenkinson, R. C. & Co., Newark, N. J.
Judd, H. L. Co. (Carpet Pins & Sockets), 87
Chambers, New York
Metal Stamping Co. (Grommet Knobs), 243
West, New York
Morss, A. S. So., 210 Commercial, Boston,
Rimmon Mfg. Co., Seymour, Conn. Mass.
Stimpson, Edwin B. & Son (Brass), 31 Spruce,
New York
Waterbury Brass Co., Waterbury, Conn.
Wilcox, Crittenden & Co. (Brass), Middletown,
Conn.

Groovers (Sheet Metal)

Barber Mfg. Co. ("Noyes"), Ashtabula, O.

*Groovers ("Tuerk")

HUNTER FAN & MOTOR CO., Fulton,
N. Y. (See adv. index, end of book)

Grubbing Machines

(See Machinery.)

Guano Distributors

Gantt, J. T. ("Gantt's"), Macon, Ga.

Guards (Cattle, for Railways)

Buda Foundry & Mfg. Co. ("Buda"), Railway
Exchange bldg, Chicago, Ill.
Climax Stock Guard Co. ("Climax," Vitrified
Clay), Canton, O.
Columbian Mail Crane Co. ("Columbian" Steel),
898 Factory, Columbus, O.
Cook's Railway Appliance Co. (The Cook Steel),
Kalamazoo, Mich.
Cook's Standard Tool Co. ("Cook's," Steel &
"Cook's Steel-Wood"), Kalamazoo, Mich.
**FAIRBANKS, MORSE & CO. (Track-
man's & "Sheffield"),** Franklin & Monroe,
Chicago, Ill. (See adv. index & branch of-
fices, end of book)
Handlan-Buck Mfg. Co. (Chain Surface), 212 N
3d, St. Louis, Mo.
Kalamazoo Railway Supply Co., Kalamazoo,
Mich.
Overstreet, H. E., 204 Dearborn, Chicago, Ill.
Railroad Supply Co., Bedford bldg, Chicago,
Ill., & 143 Liberty, New York
Seymour Mfg. Co., East Chicago, Ind.
Sheffield Car Co., Three Rivers, Mich.
Wallace Surface Cattle Guard Mfg. Co., Monroe,
Ark.

Guards (Electric Lamp)

AMOS, CHAS. & CO., 94 W Larned,
Detroit, Mich. (See adv. index, end of book)
Attleboro Electric Mfg. Co. ("Greenwood" Steel
Only) Attleboro, Mass.

Baldwin Brass Works, 232 S Canal, Chicago,
Ill.
Benjamin Electric Mfg. Co. ("Can't Break"),
42 W Jackson boul, Chicago, Ill.
Browne, Wm. L. ("Sbadegard"), Worcester,
Mass.

**BUFFALO WIRE WORKS CO., Buf-
falo, N. Y.** (See adv. index, end of book)

**CITY FORGE & IRON WORKS (An-
drew Plocber, Prop.),** Dayton, O. (See adv.
index, end of book)

Couch, S. L. Co. ("Spiral"), Boston, Mass.
Crescent Co., Valparaiso, Ind.

DARBY, EDW. & SONS CO., 239 Arch,
Phila., Pa. (See adv. index, end of book)

Electric Service Supplies Co. ("Keystone"),
Phila., Pa.

Estey Wire Works, 59 Fulton, New York
Gleason, E. P. Mfg. Co., 37 Murray, New York
Greenwood Mfg. & Supply Co. ("Greenwood"),
147 Milk, Boston, Mass.

Hamblin & Russell Mfg. Co. ("Never Break"),
Worcester, Mass.

Harvard Electric Co., 60 W Van Buren, Chica-
go, Ill.
Hipwell Mfg. Co., Allegheny, Pa.

Inglis, Wm. Wire & Iron Works ("Perfection"),
59 Woodbridge, Detroit, Mich.

Joseph, Sigmund, 245 W B'way, N. Y.
Klemm & Co., 132 N 5th, Philadelphia, Pa.

Matthews, W. U & Bro. ("Hold Fast"), 205 N
2d, St. Louis, Mo.

**MORSE, FRANK W. ("Never-
Break"),** 116 Bedford, Boston, Mass. (See
adv. below)

Mullin, Coleman J., 430 Kent av., Brooklyn,
N. Y.

NATIONAL MFG. CO., Worcester,
Mass. (See adv. index & branch offices, end
of book)

Philadelphia Ornamental Wire Co., 525 Com-
merce, Phila., Pa.

Porter & Berg, 303 Dearborn, Chicago, Ill.
Russell & Stoll Co., 48 Cliff, New York

Scott Bros. Electric Co., 3 Farrar, Detroit,
Mich.

Spencer Wire Co., Worcester, Mass.
Standard Appliance Co., 226 S Clinton, Chicago,
Ill.

Wagor Mfg. Co. ("Protector"), Springfield,
Mass.

Western Electric Co., 259 S Clinton, Chicago,
Ill., & 57 Bethune, N. Y.

Wire Goods Co., Worcester, Mass.

WRIGHT WIRE CO., Worcester,
Mass. (See adv. index & branch offices, end
of book)

*Guards (Lawn)

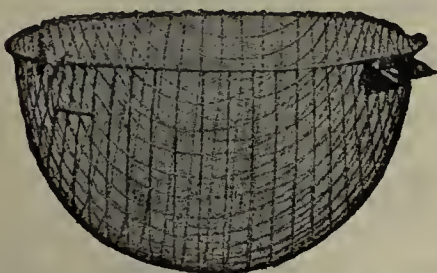
**BETHLEHEM FOUNDRY & MACHINE
Co.** (Ornamental Cast & Wrought Iron),
Front, South Bethlehem, & 149 B'way, New
York. (See adv. index, end of book)

**BUFFALO WIRE WORKS CO., 316
Terrace, Buffalo, N. Y.** (See adv. index, end
of book)

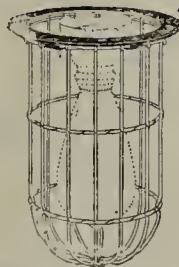
WRIGHT WIRE CO., Worcester,
Mass. (See adv. index & branch offices, end
of book)

*Guards (Mower & Reaper)

Henry & Allen, Auburn, New York
**WHITMAN & BARNES MFG. CO., Chi-
cago, Ill.** (See adv. index & branch offices,
end of book)



No. 82. Cluster



Heavy Ceiling, No. 50



Open Bottom, No. 1



No. 65



Combination No. 205



Portable, No. 70

GUARDS FOR 2 TO 100 C. P. LAMPS. 30 STYLES.

"NEVER BREAK" LAMP GUARDS

are the only approved Guards made. They lead all other Guards in Make, Service, Durability and Variety.

SEND FOR ILLUSTRATED PRICE LIST

FRANK W. MORSE, 116 BEDFORD STREET, BOSTON, MASS.

***Guards (Railroad Bridge)**

CARPENTER, GEO. B. & CO., 202 S
Water, Chicago, Ill. (See adv. index, end
of book)

***Guards (Tree)**

(See Iron Railings & Fences; also Wire Workers)
OHIO STRUCTURAL IRON CO., San-
dusky, O. (See adv. index, end of book)

***Guards (Wheel)**

BETHLEHEM FOUNDRY & MACHINE
Co. (Cast Iron), Front, South Bethlehem,
Pa., & 149 B'way, New York. (See adv.
index, end of book)

***Guides (Elevator)**

STANDARD GAUGE STEEL CO.
(Compressed Steel & Finished Tees), Beaver
Falls, Pa. (See adv. index, end of book)

Guides (Saw)

(See Saw Guides)

Gummers (Saw)

Adams, W. T. Machine Co., Corinth, Mass.
Ajax Mfg. Co. ("Standard," "I. X. L." &
"Great American"), Allegheny, Pa.
American Woodworking Machinery Co., Roches-
ter, N. Y., West st bldg
Andrews, E. & Sons (Emery Saw), Williams-
port, Pa.
Atkins, E. C. & Co. (Inc.), Main Office & Fac-
tories, Indianapolis, Ind.
Atlantic Works (Inc.), 23d & Arch, Phila., Pa.
Austin & Son ("Champion"), Grand Rapids,
Mich.
California Saw Works, 208 Mission, San Fran-
cisco, Cal.
Covel Mfg. Co. (Automatic), Benton Harbor,
Mich.
Diamond Machine Co., Providence, R. I.
Disston, Henry & Sons (Inc.), Tacony, Phila.,
Pa., & 75 W Wash'u, Chicago, Ill.
Emerson, Smith & Co., Beaver Falls, Pa.
Gerlach, Peter Co. ("Gerlach," for Cylinder,
Resaw, Heading, Siding, Shingle, Veneer,
etc.), 1708 Columbus rd, Cleveland, O.
Hamilton, Wm. Mfg. Co., Petersboro, Ontario,
Canada
Henderson, W. K. Iron Works & Supply Co.,
Shreveport, La.
Hinds, Thos. (Band Saws), Malone, N. Y.
Hoe, R. & Co., 504 Grand, New York
Mixer, J. W. Saw Tool Co. (for Circular Saws,
also Automatic Self-Feed "Champion"),
Plymouth, Mass.
Reed, Jos. B. (The Hoo-Hoo), Cairo, Ill.
Riverside Iron Works (Crescent), Kokomo, Ind.
Rogers, S. C. & Co., 10 Lock, Buffalo, N. Y.
Rowe & Trunnell, 123 W 2d, Cincinnati, O.
Simonds Mfg. Co., Fitchburg, Mass.
Southern Saw Works, Atlanta, Ga.
Tanite Co., Stroudsburg, Pa.
Wood Gummer & Filler Co., Atlanta, Ga.

Gun Cotton

(See Dynamite Mfrs.)

Gun Implements

(See Tools, Gun Cleaning & Re-Loading)

Gun Mfrs.

(See Rifles, Guns, etc.)

Gymnastic Apparatus

MERRITT & CO., 1024 Ridge av.,
Phila., Pa. (See adv. index, end of book)
NARRAGANSETT MACHINE CO.,
Providence, R. I. (See adv. index, end of
book)
Spalding, A. G. & Bros., 126 Nassau, New York,
& 149 Wabash av, Chicago, Ill.

Hack Saws

(See Saw, Hack; also Hack Saw Machines;
also Blades & Frames)

Hair Cloth Mfrs.

Cataract Hair Cloth Co., Niagara Falls, N. Y.
French Hair Cloth Co., Pawtucket, R. I.
Mawson, Jno. Hair Cloth Co., Kensington &
Glenwood avs, Phila., Pa.
Rock, J. E., Niagara Falls, N. Y.
Stack, Jno., Pittsfield, Mass.

Hair (Curled)

American Glue Co., Boston, Mass.
Armour Curled Hair, 205 La Salle, Chicago, Ill.
Baeder, Adams & Co., 67 Beekman, New York
210 Chestnut, Phila., Pa., & 68 High, Bos-
ton, N. Y.
Blehdon, V. R., Buffalo, N. Y.
Burkhart, F. Mfg. Co., 720 N Main, St. Louis,
Mo.
Coghlan, Jos. T. & Co., E Lehigh av & Edge-
mont, Phila., Pa.
Delany & Co., 209 N 3d, Philadelphia, Pa., & 97
Beekman, New York
Gordon Bros., Pierce & Orthodox, Philadelphia,
Pa.
Grover, Jno. O. & Son, 2800 Tulip, Phila., Pa.
Mason, Henry J., 521 Arch, Phila., Pa.
Mitchell, P. R. Co., Harrison & Sprig Grove
av, Cincinnati, O., & 185 Canal, New York
City
Reardon Mfg. Co., 1553 N B'way, St. Louis, Mo.
Ritchie, Geo. B. & Co., 57 Ferry, New York
Rogers, C. L. & Co., 145 5th av, New York City
Smith, Oscar & Son Co. (Inc.), 310 Spruce,
Chicago, Ill.
Swift & Co., Phila., Pa.
Tunnell & Co., F. W., 15 N 5th, Phila., Pa.
Walpert, Fred. & Co., 156 5th av, New York
Wilkins Bros., 440 Pearl, New York City
Wilkins, Wm. Co., Baltimore, Md.
Williams, Geo., New York City.
Woll, Peter & Sons, 27 Howard, N. Y., & 171
Berks, Philadelphia, Pa.
Zeidman, Morris, 359 Market sq, Chicago, Ill.

Hames (Mine & Lumbering)

Beagle Hame Works, Freeland, Pa.

Hames (Steel & Wood)

Star Hame Co. (Wood), Blanchester, O.
Todd Mfg. Co., New Albany, Ind.
U. S. Hame Co., Buffalo, N. Y.
Western Hame Works (Wood), Blanchester, O.

Hammers (Beading)

(See Pneumatic Beading Hammers)

Hammers (Blacksmiths')

ANDERSON FORGE & MACHINE CO.,
271 Guoin, Detroit, Mich. (See adv. index,
end of book)
Atha Tool Co., Newark, N. J.
Beall Bros. (Inc.) (Flatters, Set, etc.), Alton,
Ill.
Billings & Spencer Co. (Drop Forged), Hartford,
Conn.
Cheney, Henry Hammer Co., Little Falls,
Collins Co., Collinsville, Conn. N. Y.
Evansville Tool Works, Evansville, Ind.
Hammond, C. & Son, Ogontz, Pa.
Harvey, H. H., 608 Atlantic av, Boston, Mass.
Hubbard & Co., Pittsburg, Pa.
Humason & Beckley Mfg. Co., "H. & B. Cast
Steel," New Britain, Conn.
Iron City Tool Works, 32d & Smallman, Pitts-
burg, Pa.
Isle, A. W. & Son, 51 Pitt, Boston, Mass.
Jones & Laughlins Steel Co., Pittsburg, Pa.
Klein-Logan Co., S 13th & Breed, Pittsburg,
Mack & Co., Rochester, N. Y.
Maydole, David Hammer Co., Norwich, N. Y.
Peck, Stow & Wilcox Co., Southington, Conn.
Pittsburg Tool & Drop Forge Co. ("Cheswick"),
Cheswick, Pa.
Solid Steel Tool & Forge Co. ("S. T. S."),
Brackenridge, Pa.
Vaughn & Bushnell Mfg. Co. ("V. & B."),
Chicago, Ill.
Verona Tool Works, Verona, Pa., & Murland
bldg, Pittsburg, Pa.
Warner, M. R. & Son, Cromwell, Conn.

**Hammers (Blacksmiths', Foot
Power)**

Standish Machine & Supply Co., Columbus, O.
Sutton, C. E. Co., Toledo, O.

Hammers (Boiler Makers')

ANDERSON FORGE & MACHINE CO.,
271 Guoin, Detroit, Mich. (See adv. index,
end of book)
Atha Tool Co., Newark, N. J.
Billings & Spencer Co. (Drop Forged), Hart-
ford, Conn.
Evansville Tool Works, Evansville, Ind.
Harvey, H. H., 608 Atlantic av, Boston, Mass.
INGERSOLL-RAND CO., 11 B'way,
New York. (See adv. & branch offices, end
of book)
Isle, A. W. & Son, 51 Pitt, Boston, Mass.
Maydole, David Hammer Co., Norwich, N. Y.

Hammers (Brass)

Goodelt-Pratt Co., Greenveld, Mass.

Hammers (Brick)

(See Hammers, Masons')

Hammers (Bush)

ANDERSON, W. H. TOOL & SUPPLY
Co., 14 Macomb, Detroit, Mich. (See adv.
index, end of book)
Atha Tool Co., Newark, N. J.
Brunner & Lay, 133 W Polk, Chicago, Ill.
Evansville Tool Works, Evansville, Ind.
Hauck, Wm. J., 306 Southwest boul, Kansas
Mack & Co., Rochester, N. Y. City, Mo.
Stubbs Steel Co., 17 N 5th, Phila., Pa.
Trow & Holden, Barre, Vt.

**Hammers (Carpenters' & Join-
ers')**

(See Hammers, Claw; also Hammers, Tack &
Nail)

Hammers (Casting Scaling)

(See Pneumatic Scaling Hammers)

Hammers (Chipping)

BERNZ, OTTO, S 13th & S Orange av.,
Newark, N. J. (See adv. index, end of book)
Maydole, David Hammer Co. (Crucible Steel),
Norwich, N. Y.

Hammers (Claw)

Arcade Mfg. Co. (Cast), Freeport, Ill.
Atha Tool Co., Newark, N. J.
Cheney, Henry Hammer Co., Little Falls, N. Y.
Franklin Specialty Co. ("Cracker Jack" Nickel
Plated), Reading, Pa.
Humason & Beckley Mfg. Co. (Carpenters),
New Britain, Conn.
Maydole, David Hammer Co., Norwich, N. Y.
Stover Mfg. Co., Freeport, Ill.

***Hammers (Concrete Tooling)**

RANSOME CONCRETE MACHINERY
Co., Dunellen, N. J. (See adv. index, end of
book)

Hammers (Confectioners')

Erie Specialty Co., Erie, Pa.

Hammers (Coopers')

Atha Tool Co., Newark, N. J.
Maydole, David Hammer Co., Norwich, N. Y.
White, L. & I. J. Co., 143 Perry, Buffalo, N. Y.

Hammers (Copper)

Eureka Tempered Copper Works, North East,
Pa.
Hungerford, U. T. Brass & Copper Co., 497
Pearl, New York
McNab & Harlin Mfg. Co., 56 John, New York
West Haven Mfg. Co. (Pure Copper), New
Haven, Conn.

Hammers (Drilling & Striking)

ANDERSON, W. H. TOOL & SUPPLY
Co., 14 Macomb, Detroit, Mich. (See adv.
index, end of book)
Atha Tool Co., Newark, N. J.
Beall Bros. (Inc.), Alton, Ill.

Evansville Tool Works (up to 5 lbs.), Evansville, Ind.
 Hardsocg. Martin Co., Allegheny, Pa.
 Hubbard & Co. (Striking), Pittsburg, Pa.
 Humason & Beckley Mfg. Co., "H. & B. Cast Steel," New Britain, Conn.
 Iron City Tool Works (Ltd.), Pittsburg, Pa.
 Klelu-Logan Co., 13th & Breed, Pittsburg, Pa.
 Pittsburg Tool & Drop Forge Co. ("Cheswick" Double Faced), Works, Cheswick, Pa.
 Solid Steel Tool & Forge Co. ("S. T. S."), Brackenridge, Pa.
 Verona Tool Works, Verona, Pa., & Murland bldg, Pittsburg, Pa.
 Warner, M. R. & Son, Cromwell, Conn.
 Warwood Tool Co., Wheeling, W. Va.

Hammers (Drop)

(See also Presses, Drop.)

Alliance Machine Co., Alliance, O.
 Atlas Mfg. Co., Fostoria, O.
 Billings & Spencer Co., Hartford, Conn.
BLISS, E. W. Co., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)
 Bremer Machine & Tool Co. (also Spring Hammers), Kalamazoo, Mich.
 Cady Machine Co., Williamson bldg., Cleveland, O.
 Chambersburg Engineering Co. (Steam), Chambersburg, Pa.
 Coulter & McKenzie Machine Co., Bridgeport, Conn.
 Crane, W. W. Foundry & Machine Works, Auburn, N. Y.
 Foos Mfg. Co. ("Ambler"), Springfield, O.
 Iroquois Machine Co. (Automatic & Plain), Providence, R. I.
 Lane Toole Co. (Steam), 4922 Hamilton, Cleveland, O.
 Long & Allstatter Co. (Heavy, for Binding, Drop Forging, Forming, Stamping, etc., Belt, Motor & Steam Driven), Hamilton, O.
MERRILL BROS., 465 Kent, Brooklyn, N. Y. (See adv. index, end of book)
 Merriman, A. H., Meriden, Conn.
 Michigan Machinery Mfg. Co. ("Michigan"), Ypsilanti, Mich.
 Miner & Peck Mfg. Co., New Haven, Conn.
MORGAN ENGINEERING CO., Alliance, O. (See adv. index, end of book)
NIAGARA MACHINE & TOOL WORKS, c Superior & Randall, Buffalo, N. Y. (See adv. index, end of book)
 Niles-Bement-Pond Co., 111 B'way, New York
PERKINS MACHINE CO. (Hand Power & Compressed Air), Warren, Mass. (See adv. index, end of book)
 Scaife Foundry & Machine Co. (Ltd.), 28th & Smallman, Pittsburg, Pa.
 Toledo Machine & Tool Co., Toledo, O.
TUOHY BROS. CO., 95 Liberty, New York. (See adv. index, end of book)
 Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.
 Williams, White & Co. (Crank Lift & Twin Drop), Moline, Ill.
 Wood, Wm. H., Media, Pa.

Hammers (Engineers')

(See Hammers, Machinists')

Hammers (Farriers')

Cheney, Henry Hammer Co., Little Falls, N. Y.
 Evansville Tool Works, Evansville, Ind.
 Maydole, David Hammer Co., Norwich, N. Y.

Hammers (Foot Power)

Arcade Mfg. Co. ("Freeport"), Freeport, Ill.

Hammers (Granite & Marble)

(See Hammers, Stone Cutters')

Hammers (Helve)

Bradley Co. (Cushioned), Syracuse, N. Y.
ELMES, CHAS. F. ENGINEERING WORKS (Steam), c Fulton & N Sangamon, Chicago, Ill. (See adv. index, end of book)
 Lingle, J. H., Bellefonte, Pa.
 Long & Allstatter Co. (Adjustable Cushioned, Belt, Motor or Steam Driven), Hamilton, O.
 Niles-Bement-Pond Co. (Rubber Cushioned), 111 B'way, New York
 Novelty Iron Works (G. E. Davis, Prop.) ("Helva"), Dubuque, Ia.

Hammers (Interchangeable)

Greene, Tweed & Co. (The Colvin, with Rawhide, Wood or Copper Head), 17 Murray, N. Y.

Hammers (Macadamizing)

Atha Tool Co., Newark, N. J.
 Beall Bros. (Inc.), Alton, Ill.
 Evansville Tool Works, Evansville, Ind.

Hammers (Machinists')

Atha Tool Co., Newark, N. J.
 Beall Bros. (Inc.), Alton, Ill.
BERNZ, OTTO, S 13th c S Orange av, Newark, N. J. (See adv. index, end of book)
 Billings & Spencer Co. (Drop Forged), Hartford, Conn.
 Cheney, Henry Hammer Co., Little Falls, N. Y.
 Evansville Tool Works, Evansville, Ind.
 Humason & Beckley Mfg. Co., "H. & B. Cast Steel," New Britain, Conn.
 Maydole, David Hammer Co. (Crucible Steel), Norwich, N. Y.
 Peck, Stow & Wilcox Co., Southington, Conn.
 Plumb, Fayette R. (Inc.), Frankford, Philadelphia, Pa.
 Sawyer Tool Mfg. Co., Fitchburg, Mass.
 Solid Steel Tool & Forge Co. ("S. T. S."), Brackenridge, Pa.
STRONG, CARLISLE & HAMMOND CO., 333-344 Frankford av, N. W., Cleveland, O. (See adv. index, end of book)
 Vaughan & Bushnell Mfg. Co. ("V. & B."), 875 Carroll av, Chicago, Ill.
 Warner, M. R. & Son, Cromwell, Conn.

Hammers (Magnet)

Arcade Mfg. Co., Freeport, Ill.
 Robertson, Arthur R. (Horseshoers, Tack, Bill Posters, etc.), 144 Oliver, Boston, Mass.

Hammers (Masons')

ANDERSON, W. H. TOOL & SUPPLY CO., 14 Macomb, Detroit, Mich. (See adv. index, end of book)
 Atha Tool Co., Newark, N. J.
 Beall Bros. (Inc.), Alton, Ill.
 Crescent Novelty Mfg. Co. (Brick), 703 S B'way, St. Louis, Mo.
 Drew, C. & Co., Kingston, Mass.
 Evansville Tool Works, Evansville, Ind.
 Hammond, C. & Son, Ogontz, Pa.
 Harvey, H. H., 608 Atlantic av, Boston, Mass.
 Humason & Beckley Mfg. Co. ("H. & B." Cast Steel), New Britain, Conn.
 Iron City Tool Works, 32d & Smallman, Pittsburg, Pa.
 Isle, A. W. & Son, 51 Pitt, Boston, Mass.
 Klein-Logan Co., S 13th & Breed, Pittsburg, Pa.
 Marshalltown Trowel Co. (Brick), Marshalltown, Iowa
 Maydole, David Hammer Co., Norwich, N. Y.
 Pittsburg Tool & Drop Forge Co. ("Cheswick"), Works, Cheswick, Pa.
 Plumb, Fayette R. (Inc.), Frankford, Philadelphia, Pa.
 Schueddig, F. Son., 525 S Jefferson av, St. Louis, Mo.
 Solid Steel Tool & Forge Co. ("S. T. S."), Brackenridge, Pa.
 Stortz, Jno. & Son, 210 Vine, Phila., Pa.
 Warner, M. R. & Son, Cromwell, Conn.
 White, L. & I. J. Co., 143 Perry, Buffalo, N. Y.

Hammers (Napping)

ANDERSON, W. H. TOOL & SUPPLY CO., 14 Macomb, Detroit, Mich. (See adv. index, end of book)
 Atha Tool Co., Newark, N. J.
 Beall Bros. (Inc.), Alton, Ill.
 Evansville Tool Works, Evansville, Ind.
 Hubbard & Co., Pittsburg, Pa.
 Iron City Tool Works, 32d & Smallman, Pittsburg, Pa.
 Klein-Logan Co., S. 13th & Breed, Pittsburg, Pa.
 Pittsburg Tool & Drop Forge Co. ("Cheswick"), Arrott bldg, Pittsburg, Pa. Works, Cheswick, Pa.
 Plumb, Fayette R. (Inc.), Frankford, Philadelphia, Pa.
 Solid Steel Tool & Forge Co. ("S. T. S."), Brackenridge, Pa.
 Verona Tool Works, Verona, Pa., & Murland bldg, Pittsburg, Pa.

Hammers (Pavers')

Ames Plow Co., Quincy Hall, Boston
ANDERSON, W. H. TOOL & SUPPLY CO., 14 Macomb, Detroit, Mich. (See adv. index, end of book)
 Atha Tool Co., Newark, N. J.
 Atkins, E. C. & Co. (Inc.), Home Offices & Factories, Indianapolis, Ind.
 Crescent Novelty Mfg. Co., 703 S B'way, St. Louis, Mo.
 Evansville Tool Works, Evansville, Ind.
 Harvey, H. H., 608 Atlantic av, Boston, Mass.
 Isele, A. W. & Son, 51 Pitts, Boston
 Plumb, Fayette R. (Inc.), Frankford, Phila., Pa.
 Schueddig, F. Son., 525 S Jefferson av, St. Louis, Mo.
 Stortz, Jno. & Son, 210 Vine, Phila., Pa.
 White, L. & I. J. Co., 143 Perry, Buffalo, N. Y.

Hammers (Pile Drivers')

AMERICAN HOIST & DERRICK CO., St. Paul, Minn. (See adv. index & branch offices, end of book)
 Bartlett, A. F. & Co., Saginaw, Mich.
BETHLEHEM FOUNDRY & MACHINE CO., Front, South Bethlehem, Pa. (See adv. index, end of book)
CARLIN'S, THOS. SONS CO., 1300 River, Allegheny, Pa. (See adv. index, end of book)
 Contractors' Plant Mfg. Co., 125 Erie, Buffalo, N. Y.
DOBBIE FOUNDRY & MACHINE CO., Niagara Falls, N. Y. (See adv. index & branch offices, end of book)
LIDGERWOOD MFG. CO., 96 Liberty, N. Y., & Old Colony bldg, Chicago. (See adv. index & branch offices, end of book)
MUNDY, J. S., 22 Prospect, Newark, N. J. (See adv. index & branch offices, end of book)
NATIONAL HOISTING ENGINE CO., Harrison, N. J. (See adv. index & branch offices, end of book)
 Toledo Foundry & Machine Co., 202 Cherry, Toledo, O.
 South St. Louis Foundry, 7516 S B'way St. Louis, Mo.
 Vulcan Iron Works ("Warrington-Nasmith"), Fulton & Irving av, Chicago, Ill.

*Hammers (Plumbers')

BERNZ, OTTO, S 13th c S Orange av, Newark, N. J. (See adv. index, end of book)

Hammers (Pneumatic)

(See Pneumatic Hammers.)

Hammers (Power)

American Machine & Mfg. Co. ("Americau"), Cleveland, O.
 Beaudry & Co. (Inc.), 141 Milk, Boston, Mass.
BLISS, E. W. Co., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)
 Bradley, C. C. & Son, Syracuse, N. Y.
 Dienelt & Eisenhardt (Spring), 1302 N. Howard, Philadelphia, Pa.
 Fairbanks, E. T. & Co., St. Johnsbury, Vt.
FAIRBANKS, MORSE & CO., Franklin & Mouroe, Chicago, Ill. (See adv. index & branch offices, end of book)
 Grinnell Mfg. Co. ("Modern"), Grinnell, Ia.
 Howe Scale Co., Rutland, Vt.
 Justice, Philip S. & Co. ("Justice" Spring), 421 Chestnut, Philadelphia, Pa.
 Kauffman, J. A. ("Kauffman's"), Miamisburg, Ohio
 Kane & Roach, Syracuse, N. Y.
 Long & Allstatter Co. (Belt, Motor or Steam Driven), Hamilton, Ohio
MANNING, MAXWELL & MOORE, 85 Liberty, New York. (See adv. index & branch offices, end of book)
MERRILL BROS. (Air Cushion), 465 Kent av., Brooklyn, N. Y. (See adv. index, end of book)
MORGAN Engineering Co., Alliance, O. (See adv. index, end of book)
 Niles-Bement-Pond Co., 111 B'way, New York
 Novelty Iron Works (G. E. Davis, Prop.) ("Helva" & "Boss"), Dubuque, Ia.
 Scranton & Co., New Haven, Conn.
 Toledo Machine & Tool Co., Toledo, O.
TUOHY BROS. CO., 95 Liberty, New York. (See adv. index, end of book)
 Turner, Vaughn & Taylor Co. (For Making Chain Only), Cuyahoga Falls, O.
 Waterbury Farrel Fdry. & Mach. Co., Waterbury, Conn.
 Williams, White & Co., Moline, Ill.
 Woolly Foundry & Machine Co., Anderson, Ind.

Hammers (Rawhide)

(See Mallets, Rawhide)

Hammers (Riveting)

Cheney, Henry Hammer Co., Little Falls, N. Y.
Granger's Drop Forge Works, 25 S. Canal, Chicago, Ill.
Hammond, C. & Son, Ogontz, Pa.
Humason & Beckley Mfg. Co., "H. & B. Cast Steel," New Britain, Conn.

Mack & Co., Rochester, N. Y.
Maydole, David Hammer Co. (Crucible Steel), Norwich, N. Y.

Peck, Stow & Wilcox Co., Southington, Conn.
Plumb, Fayette R. (Inc.), Frankford, Phila., Pa.
Solid Steel Tool & Forge Co. ("S. T. S."), Brackenridge, Pa.

Stover Mfg. Co., Freeport, Ill.
Warner, M. R. & Son, Cromwell, Conn.

Hammers (Rotary Riveting)

Williams, White & Co., Moline, Ill.

Hammers (Saddlers')

Johnson, Wm. (Hedenberg Works), Newark, N. J.

Hammers (Saw)

Covel Mfg. Co., Benton Harbor, Mich.
Hanchett Sewage Works, Big Rapids, Mich.

Hammers (Shoemakers')

Franklin Specialty Co. ("Our Hub"), Reading, Pa.

Hammers (Slaters')

(See Also Tools, Slaters')

ANDERSON, W. H., TOOL & SUPPLY
Co. 14 Macomb, Detroit, Mich. (See adv. index, end of book)

Evansville Tool Works, Evansville, Ind.

FLORY, S. MFG. CO., Bangor, Pa.
(See adv. index, end of book)

Harvey, H. H., 608 Atlantic av, Boston, Mass.
Isele A. W. & Son, 51 Pitts, Boston, Mass.
Salem Nail Co. (Best Steel), 279 Pearl, N. Y.
Stortz, Jno. & Son, 210 Vine, Phila., Pa.

Hammers (Steam)

Alliance Machine Co., Alliance, O.
Bell, David Engineering Works, Buffalo, N. Y.
Chambersburg Engineering Co. (Single & Double Frame), Chambersburg, Pa.

Dudgeon, Richard, 24 Columbia, New York
ELMES, CHAS. F., ENGINEERING
Works (Helve), cor Fulton & N Sangamon, Chicago, Ill. (See adv. index, end of book)

Erie Foundry Co. ("Erie"), Pa.
Kline, Lewis T., Alpena, Mich.

Lane Tool Co. (Drop & Forge), 4922 Hamilton Cleveland, O.

McDougal & Potter Co., 606 W 55th, N. Y.

MANNING, MAXWELL & MOORE, 85
Liberty, New York. (See adv. index, end of book)

MONIGHAN'S MACHINE WORKS
("American" Single & Double Frame), 813 Carroll av, Chicago, Ill. (See adv. index, end of book)

MORGAN ENGINEERING CO. (Single & Double Stand), Alliance, O. (See adv. index, end of book)

Niles-Bement-Pond Co. (single, double & open frame), 111 B'way, New York

Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Phila., Pa.

Trethewey, Samuel & Co. (Especially for Tool Steel), (Ltd.), 47th nr Butler, Pittsburgh, Pa.

TUOHY BROS. CO., 95 Liberty, New
York. (See adv. index, end of book)

Hammers (Stone Cutters')

ANDERSON, W. H., TOOL & SUPPLY
Co. 14 Macomb, Detroit, Mich. (See adv. index, end of book)

Atha Tool Co. (all kinds), Newark, N. J.
Beall Bros. (Inc.), Alton, Ill.

Clark, Alex. & Co., Quincy, Mass.
Crescent Novelty Mfg. Co., 703 S B'way, St. Louis, Mo.

Evansville Tool Works, Evansville, Ind.

Harvey, H. H., 608 Atlantic av, Boston, Mass.

Hubbard & Co., Pittsburgh, Pa.

Humason & Beckley Mfg. Co., "H. & B. Cast Steel, New Britain, Conn.
Isele, A. W. & Son, 51 Pitt, Boston, Mass.
Klein, Logan Co., S 13th & Breed, Pittsburgh, Pa.
Mack & Co., Rochester, N. Y.
Maydole, David Hammer Co., Norwich, N. Y.
Plumb, Fayette R. (Inc.), Frankford, Phila., Pa.
Schueddig, F. Son, 525 S Jefferson av, St. Louis, Mo.
Trow & Holden, Barre, Vt.
Warner, M. R. & Son, Cromwell, Conn.
White, L. & I. J. Co., Buffalo, N. Y.

Hammers (Tack & Nail)

Arcade Mfg. Co. (Cast Claw, etc.), Freeport, Ill.
Atha Tool Co., Newark, N. J.

Billings & Spencer (Tack Hammer & Puller Combined), Hartford, Conn.
Braunsdorf-Mueller Co., Elizabeth, N. J.

Chantrell Tool Co. (Cast Iron & Steel), Reading, Pa.

Cheney, Henry, Hammer Co., Little Falls, N. Y.
Denison Mfg. Co. (Tack), Warren, O.

Disston, Henry & Sons (Inc.), Tacony, Phila.
Evansville Tool Works, Evansville, Ind.

Franklin Specialty Co. ("Cracker Jack," "Korker," "Winner"), Reading, Pa.

Hammond, C. & Son, Ogontz, Pa.
Heller Bros. Co., Newark, N. J.

Henry, John T. Mfg. Co., Hamden, Conn.
Humason & Beckley Mfg. Co., "H. & B. Cast Steel, New Britain, Conn.

Kennedy Mfg. Co. (Magazine Tack, etc.), Easton, Mass.

Landers, Frary & Clark, New Britain, Conn.
Maydole, David Hammer Co. (Nail only), Norwich, N. Y.

National Novelty Corporation ("Brighton" & "L. & S. I. Co."), 826 B'way, New York

New England Specialty Co., North Easton, Mass.
Osborne, C. S. & Co., 96 Mechanic, Newark, N. J.

Peck, Stow & Wilcox Co., Southington, Conn.
& 27 Murray, N. Y.

Philadelphia Steel & Iron Co., Fkd., Phila., Pa.
Phoenix Hardware Mfg. Co., Homer, N. Y.

Piper Mfg. Co., Winchendon, Mass.
Robertson, Arthur R. (Magnetic), 144 Oliver, Boston, Mass.

Sayre, L. A. Co., Newark, N. J.

Springfield Machine Screw Co. ("Diamond" Nail), Chicopee, Mass.

Stanley Rule & Level Co., New Britain, Conn.
Stover Mfg. Co. (Cast), Freeport, Ill.

Troy Nickel Works (Jno. E. Gaitley, prop.), (Alaska, Solid Steel, Full Nickel Plated), Albany, N. Y.

Vaughn & Bushnell Mfg. Co. ("Adze Eye Drop Forged"), Chicago, Ill.

Williams, A. C. Co., Ravena, O.
Williams, C. A. & Co., Skowhegan, Me.

Wrightsville Hardware Co., Wrightsville, Pa.

Hammers (Tinner's')

Atha Tool Co., Newark, N. J.
Cheney, Henry Hammer Co., Little Falls, N. Y.

Evansville Tool Works, Evansville, Ind.
Maydole, David, Hammer Co., Norwich, N. Y.

Hammers (Trip)

(See also Hammers, Power.)

Crane, W W Foundry & Machine Works (Air Cushion), Auburn, N. Y.

Diamond Iron Works ("Iron Store Giant"), Minneapolis, Minn.

Kansas City Trip Hammer Co. ("Hercules," Three Sizes), Kansas City, Kan.

Kauffman, J. A., Miamisburg, O.

Macgowan & Finnigan Foundry & Machine Co. ("Perfect"), St. Louis, Mo.

Mayer Bros. ("New Little Giant" & "The Easy"), Mankato, Minn.

MERRILL BROS., 465 Kent av.,
Brooklyn, N. Y. (See adv. index, end of book)

Hammers (Upholsterers')

Arcade Mfg. Co., Freeport, Ill.
Atha Tool Co., Newark, N. J.

Dicke Tool Co., Downer's Grove, Ill.
Bonney Vise & Tool Works (Inc.), "Steel," 3015 Chestnut, Phila., Pa.

Franklin Specialty Co. ("Franklin"), Reading, Pa.

Johnson, William (Hedenberg Works), Newark, N. J.

Kraeuter & Co., Newark, N. J.
National Novelty Corporation ("Brighton"), 826 B'way, New York

Osborne, C. S. & Co., Newark, N. J.
Wrightsville Hardware Co., Wrightsville, Pa.

Hammers (Vacuum)

Williams, White & Co. ("Yeakley"), Moline, Ill.

Hammock Mfrs.

Brayshaw, Jas., North Weymouth, Mass.
Fowler Net & Twine Co., 107 S 2d, Phila., Pa.

Gem Hammock & Fly Net Co., Milwaukee, Wis.

Hoffman-Corr Mfg. Co. (Globe-Lion Brand), 55 White, New York

Hohlfeld Mfg. Co., 8th & Dauphin, Phila., Pa.
La Crosse Hammock Works, La Crosse, Wis.

Masland, Joseph H. Co., 4819 Gtn av, Phila., Pa.
Palmer, I. E., Middletown, Conn.

Patterson-Holifield Mfg. Co., 2300 N 8th, Phila., Pa.

Shoyer, D. W. & Co., 621 Cherry, Phila., Pa.
Standard-Hicks Hammock Co., Mt. Holly, N. J.

Sun Mfg. Co. ("Sunshine" for Porches, etc.), Columbus, O.

Thomas, T. B. & Co., Quincy, Mass.
Travers Bros. Co., 41 Worth, N. Y.

Western Hammock Co., La Crosse, Wis.
Weston & Wells Mfg. Co., 1110 Noble, Phila., Pa.

Hammocks (Woven Wire)

Lloyd Mfg. Co., Minneapolis, Minn.

Hampers

(See Baskets, Hampers, etc.)

Hand Grenades

(See Fire Extinguishers.)

*Hand Rails (Steel)

DAHLSTROM METALLIC DOOR CO.,
Jamestown, N. Y., & 299 B'way, New York.

(See adv. index, end of book)

Hand Screws

(See Screws, Hand.)

Handles (Adjustable Auger)

Bonney Vise & Tool Works (Inc.), "Hayes," 3015 Chestnut, Phila., Pa.

Handles (Agricultural Tool)

Hanover Plow Handle Co. (Oak), Hanover, Pa.
Harris Mfg. Co., Johnson City, Tenn.

Piqua Handle & Mfg. Co., Piqua, O.

Handles (Boiler)

Arcade Mfg. Co., Freeport, Ill.
Berger Bros. Co., 237 Arch, Phila., Pa.

Indiana Mfg. Co., Jeffersonville, Ind.
Menard Mfg. Co., Menard, Ill.

National Novelty Corp., 826 B'way, New York
OSBORN MFG. CO. (Rice Plant), New
Durham, N. H. (See adv. index, end of book)

Stover Mfg. Co., Freeport, Ill.
Troy Nickel Works (Jno. E. Gaitley, prop.), (Also Drop Handles, etc.), Albany, N. Y.

Weller Hdw. & Foundry Co. (or Milk Can), Horseheads, N. Y.

Wrightsville Hdw. Co., Wrightsville, Pa.

Handles (Bone)

Randolph, Wm. C. (Wisk Broom, etc.), 213 Arch, Phila., Pa.

Rogers & Hubbard Co., Middletown, Conn.
Wohl, Emil Mfg. Co. (Broom, Brush, etc.), Nicetown, Phila., Pa.

Handles (Brake)

American Iron & Steel Mfg. Co., Lebanon, Pa.
Billings & Spencer Co. (Drop Forged), Hartford, Conn.

Brill, J. G. Co. (Brass & Malleable Iron), 621 & Woodland av, Phila., Pa.

Central Union Brass Co., St. Louis, Mo.
Columbia Machine Works & Malleable Iron Co. (Adjustable), Brooklyn, N. Y.

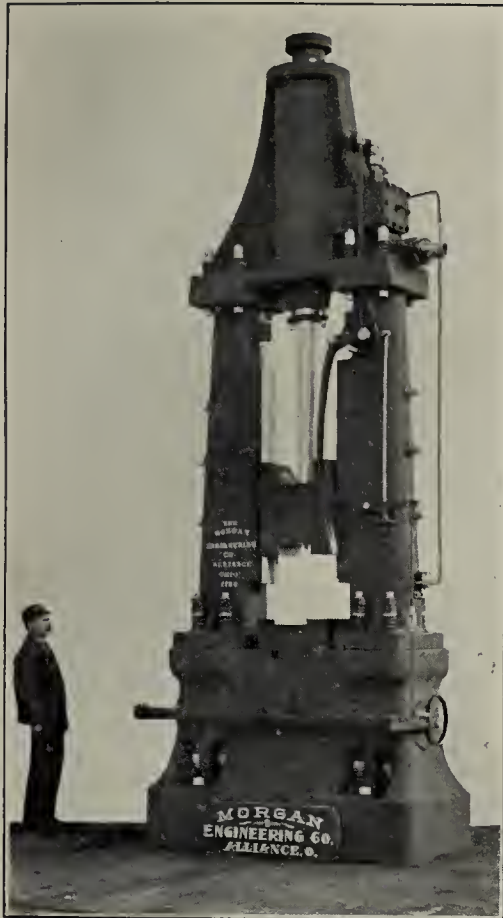
Dayton Mfg. Co. (Kling-Lean & Gravity), Dayton, O.

McGuire-Cummings Mfg. Co., 122 N Sangamon, Chicago

Ohio Brass Co., Mansfield, O.
Silver, Wm. S., Park Row bldg, New York

Sterling-Meeker Co. (Electric Car), 420 Ogden, Newark, N. J.

Western Electric Supply Co., St. Louis, Mo.



“MORGAN”

HAMMERS

SINGLE STAND
DOUBLE STAND
DROP FORGING
AXLE
STEEL TILTING
PLANISHING
BLOOMING

SHEARS - PUNCHES
RIVETTERS
BENDING AND FLANGING
MACHINES.

CRANES

OVERHEAD TRAVELING
HIGH AND LOW TYPE
CHARGERS
GANTRY, INGOT STRIPPING
AND
SOAKING PIT CHARGING

LARGEST BUILDERS OF CRANES, ALSO
BUILDERS OF LARGEST CRANES
IN THE WORLD

SPECIAL MACHINERY FOR
STEEL WORKS AND ROLLING MILLS.

INQUIRIES SOLICITED.
Estimates Cheerfully Furnished.

WE DESIGN AND BUILD TO SUIT ANY AND ALL REQUIREMENTS.

THE MORGAN ENGINEERING CO.
ALLIANCE, OHIO

NEW YORK
CHICAGO

111 BROADWAY
755 RAILWAY EX.

PITTSBURG
BRUSSELS

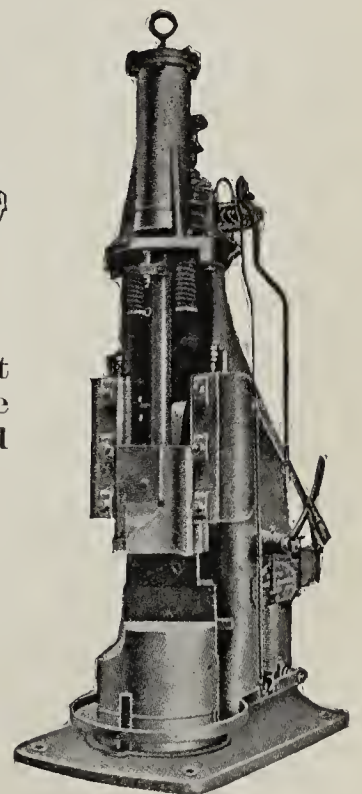
FRICK BUILDING
52 RUE DE CONGRES.

“AMERICAN” STEAM HAMMERS,

DOUBLE AND SINGLE FRAME.

Our Steam Hammers are of the latest design, and embrace every new feature of known value. They are simple and convenient to handle.

SEND FOR CATALOGUE.



MONIGHAN MACHINE WORKS,

813-23 Carroll Avenue,

Chicago, Ill.

HENDRICKS' Commercial Register

Leads the Procession
of Publications in the
≡March of Trade≡

Among Architects, Builders, Contractors,
Engineers, Purchasing Agents of
Railroads, Mills, Mines, Factories and
Supply Houses

Because it is the most complete Buyers'
Reference and the most profitable
Advertising Medium.

Use Hendricks' COMMERCIAL
REGISTER



Write for particulars of free classifications.

Handles (Canthook & Peavey)

Evart Tool Co. (Ltd.), Evart, Mich.
Harris Mfg. Co., Johnson City, Tenn.
Piqua Handle & Mfg. Co., Piqua, O.

Handles (Chest)

National Novelty Corp., 826 B'way, New York
NATIONAL SUPPLY CO., 7 W Lombard, Baltimore, Md. (See adv. index, end Penn Hardware Co., Reading, Pa. of book)
STANLEY WORKS (Wrought Steel), New Britain, Conn., & 79 Chambers, New York. (See adv. index, end of book)
Stover Mfg. Co., Freeport, Ill.
Wrightsville Hardware Co. (Surface), Wrightsville, Pa.

Handles (Circuit Breaker)

American Enamel Co., Providence, R. I.
Dnranoid Mfg. Co., 28 Prospect, Newark, N. J.
NOVELTY TURNING CO., Norway, Me. (See adv. below)
Rauscher, John, 98 W 3d, St Paul, Minn.

Handles (Document)

Voelkner Reinke Mfg. Co. (Polished Brass), 123 W. Woodbridge, Detroit, Mich.

Handles (Drop Forged, Machine)

(See also Handles, Machine)

WHITMAN & BARNES MFG. CO., Chicago, Ill. (See adv. index & branch offices, end of book)
WILLIAMS, J. H. & CO., 150 Hamilton ave., Brooklyn, N. Y. (See adv. index, end of book)

Handles (Electric Switch)

American Enamel Co., Providence, R. I.
Bogart & Hopper, 162 William, N. Y.
Ehnborn Wood Turning & Mfg. Co., 19 N Jefferson, Chicago, Ill.
Electrose Mfg. Co., 127 N 10th, Brooklyn, N. Y.
Estes, E. B. & Sons, 74 Warren, New York
NOVELTY TURNING CO., Norway, Me. (See adv. below)
OSBORN MFG. CO. (Rice Plant), New Durham, N. H.
Ranscher, Jno., 30 W 3d, St. Paul, Minn.
Scranton Button Co., Scranton, Pa.
Union Hardware Co., Torrington, Conn.

***Handles (Enameled)**

NOVELTY TURNING CO., Norway, Me. (See adv. index, end of book)

Handles (File)

Cassady-Fairbank Mfg. Co., 6106 La Salle, Chicago, Ill.
Niagara Handle & Ferrule Co. ("Neversplit"), Buffalo, N. Y.
Nicholson File Co., Providence, R. I.
OSBORN MFG. CO. (Rice Plant), New Durham, N. H.
Piqua Handle & Mfg. Co., Piqua, O.
Schriver, O. P. & Co., (Malleable Iron, "I. X. L."), 208 Elm, Cincinnati, O.

Handles (Hickory)

(See also Handles, Wood)

Acme Handle Co., Merchants, Laclede bldg., St. Louis, Mo.
Blackstone Hand-shaved Handle Co., Blackstone, Va.
Central Mfg. Co., Kansas City, Mo.
Consolidated Handle Co., Tullahoma, Tenn.
Eldon Handle Co., Meta, Mo.
Frankfort Handle Mfg. Co., Frankfort, Ind.

Galax Handle Works (Ltd.), Galax, Va.
Hardwood Specialty Co., Memphis, Tenn.
Hartwell Bros., Chicago Heights, Ill.
Ivory Handle Co., Hope, Ark.
Payne, J. N. & Son, Morganton, N. C.
Pontiac Turning Co., Pontiac, Mich..
Rock River Mfg. Co., Dixon, Ill.
Rogers-Meiser Handle Co., Paragould, Ark.
Standard Handle Co., Knoxville, Tenn.
Strock, L. W. & Co., Bethlehem, Pa.
Turner, Day & Woodworth Co., Louisville, Ky.
Unaka Handle Co., Johnson City, Tenn.

Handles (Leather)

Buffalo Specialty Mfg. Co. (Tool), 375 Elliott, Buffalo, N. Y.
Kelton-Bruce Mfg. Co., 77 Franklin, New York City

Handles (Machine)

Billings & Spencer Co., Hartford, Conn.
Cincinnati Ball Crank Co. (Steel), Cincinnati, O.
Keystone Drop Forge Works, Chester, Pa.
New Britain Hardware Mfg. Co., New Britain, Conn.
Transue & Williams Co., Alliance, O.
WHITMAN & BARNES MFG. CO., Chicago, Ill., & 111 Chambers, New York. (See adv. index & branch offices, end of book)
WILLIAMS, J. H. & CO., 9 Richards, Brooklyn, N. Y. (See adv. index, end of book)
Willcox, D. Mfg. Co., Mechanicsburg, Pa.

Handles (Ratchet)

Lord, L. L. Co. ("Lord"), Meadville, Pa.

Handles (Ratchet Brake)

Adams & Westlake Co., Ontario & N Franklin, Chicago, Ill.
Beverly Engine & Machine Co., Beverly, Mass.
Billings & Spencer Co. ("The Kelsey Noiseless"), Hartford, Conn.
Brill, J. G. Co., 62d & Woodland av, Phila., Pa.
Burns, Silver & Co., Bridgeport, Conn.
Columbia Machine Works & Malleable Iron Co., 269 Chestnut, Brooklyn, N. Y.
Ohio Brass Co., Mansfield, O.
Silver, Wm. S. & Co., Park row bldg, New York

Handles (Screw Driver)

Tuck Mfg. Co., Brockton, Mass.

Handles (Soldering Iron)

Troy Nickel Works (Jno. E. Gaitley, prop.), (Alaska Wire), Albany, N. Y.

Handles (Surfacing File)

Western Tool & Mfg. Co. ("Champion"), Springfield, O.

***Handles (Tub)**

STANLEY WORKS (Wrought Curved Plate), New Britain, Conn., & 79 Chambers, New York. (See adv. index, end of book)

Handles (Valve)

Eby Mfg. Co. (Wooden), Detroit, Mich.
Gaitley, Jno. E. (Troy Nickel Works) (Alaska Wire), Albany, N. Y.
Piqua Handle & Mfg. Co. (Wooden), Piqua, O.

***Handles (Window & Shutter)**

STANLEY WORKS (Wrought Steel), New Britain, Conn., & 79 Chambers, New York. (See adv. index, end of book)

Handles (Wood)

(This is not a complete list of Handle Mfrs.; it is published for purchasing purposes. See also subdivisions of this trade.)

ALABAMA.

ASHRIDGE—Lakeman, E. P. (Sledge)
HUNTSVILLE—Consolidated Handle Co. (Hickory)
Henderson, Murphree & Heuderson (ory)
MOBILE—Zelnicker, Walter A. Supply Co. (Hickory, Axe, Maul, etc.)
UNION SPRINGS—Caldwell & Ramsey

ARKANSAS.

BIERNE—Acme Handle Co. (Hickory & Oak, Axe, Pick, Sledge, Hammer & Hatchet, etc.)
HARRISBURG—Consolidated Handle Co. (Hickory)
HOPE—Ivory Handle Co. (Hickory)
PARAGOULD—Rogers-Meiser Handle Co. (Axe, Cant Hook, Pick, Sledge, Hickory, etc.)

CONNECTICUT.

CLINTON—Kelsey, Horatio (Axe, Pick, Small Tools, etc.)
COLLINSVILLE—Hartigan, Wm. R. (Brush, Duster, Pick, Sledge, etc.)
DEEP RIVER—Williams & Marvlu Mfg. Co.
EASTPORT—Tatem, J. M. (Pick & Sledge)
LITCHFIELD—Bigelow Bros.
MILFORD—Clark, E. D. & Bro. (Pick & Sledge)
PINE MEADOW—Chapin-Stephens Co. (Plane, Saw, Chisel & File)
PUTNAM—Tatem, J. B. & Son (Chisel, Lawn Mower, Leather Capped)
SALISBURY—Salisbury Cutlery Handle Co. (Cutlery)
SAUGATUCK—Doscher Plane & Tool Co. (Chisel, Awl, File, Screw Driver, Plane, Carvers, etc., Plain, Shellac, Polished, etc.)
SEYMOUR—Swan Jas. Co. (Auger, Bit, Chisel)
TORRINGTON—Union Hardware Co.

GEORGIA.

ATLANTA—Atlanta Woodenware Co. (Axe, Broom, etc.)
BEECH HILL—Ivey, H. J. (Pick & Sledge)
ROME—Towers & Sullivan Mfg. Co. (Plane)

ILLINOIS.

CHICAGO HEIGHTS—Hartwell Bros. (Axe, Adze, Maul, Pick, Sledge, Hickory, etc.)
DIXON—Rock River Mfg. Co. (Hickory, Hatchet, Hammer, etc.)
FLORA—Meyer, A. H. & Sons (Axe, etc.)
STERLING—Peck, Jno. (Knife)

INDIANA.

BLUFFTON—Buck, J. M.
COLUMBUS—Columbus Handle & Tool Co.
EVANSVILLE—White Oak Handle Co. (Plow Handles)
FRANKFORT—Cleveland & Palmer Handle Co.
Frankfort Handle Mfg. Co.
HUNTINGBURG—Hartwell Mfg. Co.
INDIANAPOLIS—Atkins, E. C. & Co. (Cross Hub Mfg. Co. Cut Saw)
Indianapolis Handle & Mfg. Co.
Udell Works (Brush, Duster, etc.)
LOGANSPOUT—Hillock & Pitman (all kinds), Howe, Sam'l E. (Plow)
MARION—Marion Handle & Mfg. Co.
MONTPELIER—Jackson Shovel & Tool Co. (Shovel, Spade, etc.)
NEW ALBANY—Force, I. F., Handle Co.
NEW CASTLE—Jennings, S. P.
NEW HAVEN—Schnitker, A. R. & Son
Sperry Mfg. Co.
RICHMOND—Richmond Handle Co. (Fork, Shovel, Spade, etc.)
UNION CITY—Clark, A. L.
VINCENNES—Indiana Handle Co.

NOVELTY TURNING COMPANY**HANDLES, NORWAY, MAINE**

IF IT IS TO BE "TURNED OF WOOD," SEND IT TO US

FORMERLY AT FITCHBURG, MASS.

ESTABLISHED 1870

IOWA

FORT MADISON—Iowa Farming Tool Co. (Fork, Shovel, Spade, etc.)
WEST POINT—Cantril Handle Mfg. Co. (Pick & Sledge)

KENTUCKY

HICKMAN—Tyler, R. T.
LOUISVILLE—Turner, Day & Woolworth Handle Co. (Axe, Pick, Sledge, Hammer, Hatchet & Mining Tool)

LOUISIANA.

NEW ORLEANS—Zelnicker, Walter A. Supply Co., Hickory av. (Maul, etc.)

MAINE.

AUGUSTA—Harvey, H. H. Handle Co. (Hammer, Pick, Sledge, etc.)
DIXFIELD—Stowell, N. S. & Co. (Small Tools, etc.)
EAST ITHAM—Flint, Nathan R. (Axe)
GARDINER—Oakland Mfg. Co. (Broom)
LEWISTON—Lewiston Handle Co. (Shovel, Spade, etc.)
NORWAY—NOVELTY TURNING CO. (Knife, File, Small Tool, Lather & Stencil, etc.). (See adv. on preceding page)
STRATTON—Stratton Mfg. Co. (Turned Wood)

MASSACHUSETTS.

ASHFIELD—Thayer & Harmon (Bit Brace Heads & Handles, Wrench)
BOSTON—Harvey, H. H., 16 Oliver Stiles, H. A. & Co. (Tool, Valve, etc.), 176 Federal
CAMBRIDGE—Standard Turning Works
FITCHBURG—Cushing, S. G., 29 Newton pl. Simonds File Co. (Files)
GREENFIELD—Rugg Mfg. Co. (Rake)
NORTHAMPTON—Smith, Chas. O. (Broom)
SPRUCE CORNER—Thayer, Geo. A. (All Kinds of Tool Handles, Gauge Cocks & Radiator Valve Handles)

MICHIGAN.

CADILLAC—Cadillac Handle Co. (Broom, Torch, etc.)
COLDWATER—Hellenberg & Son (Mallet, Rammer, etc.)
DETROIT—Michigan Handle Mfg. Co. (Valve)
Pruce Handle Mfg. Co. (Hand Shaved & Machine Made Tools, etc.)
ESCANABA—Escanaba Woodware Co. (Broom)
EVANS—Mills, T. M. & Co. (Mop)
EVART—Champion Tool & Handle Works
FREEPORT—Cheesebrough, Job (Rake)
GALLEN—Montross, R. W. (Hay, Fork, Broom, Hoe, Rake, Shovel, Spade, Scoop, etc.)
JACKSON—Withington & Cooley Mfg. Co.
LUDINGTON—Handy Things Co. (Brush, Duster, Small Tool, etc.)
MANCERLONA—Mancelona Handle Co. (Broom)
NEWAYGO—Rowe, Henry Mfg. Co. (Turned)
ONAWAY—Lobdell & Bailey Mfg. Co. (Broom Handles)
PONTIAC—Pontiac Turning Co. (Hickory)
SOUTH BOARDMAN—Wellman, S. A. & Co. (Peavy)
TOWER—Stratton, De Forest A. (Broom Handles & Turned Wood)
VANDERBILT—Olds & Hixon (Broom)
YPSILANTI—Dickerson, C. W. (Pick & Sledge)

MISSISSIPPI.

JACKSON—Burleigh's, R. G. Sons

MISSOURI.

CARUTHERSVILLE—Peattie Handle Co. (Fork)
DEXTER—I. X. L. Handle Mfg. Co. (Pick & Sledge)
KANSAS CITY—Central Mfg. Co. (Hickory)
KIRKSVILLE—Storm Bros.
MEMPHIS—Rees Bros. Mfg. Co.
META—Eldon Handle Co. (Hickory)
PUXICO—Fulkerson Bros. Handle Co.
ST. LOUIS—Acme Handle Co. (Hickory, Axe, Hammer, Hatchet, Sledge, etc.), Merchants-Laclede Bldg.
Zelnicker, Walter A. Supply Co. (Hickory, Axe, Maul, etc.), 408 N. 4th
WYACONDA—Morgau Mfg. Co. (Axe, Pick & Sledge, etc.)

NEW HAMPSHIRE.

KEENE—Ellis, Austin A. (Brush)
Pierce F. B. Corp. (Brush)
MANCHESTER—Piper, B. H. Co. (Axe, etc.)

MILFORD—Peirce, W. E. & Co.
NEW DURHAM—Rice Mfg. Co. (Brush, Enamelled & Plain, etc.)
SUNAPEE—Alexander & Perkins (Hoe, Fork, etc.)
WOLFBORO FALLS—Berry, O. P. Co. (etc.)

NEW JERSEY.

NEWARK—Sommer's, John Son

NEW YORK.

ADDISON—Harrison, James S. (Plow)
AMSTERDAM—American Broom & Brush Co. (Broom)
Amsterdam Broom Co. (Broom & Mop)
BLUCKER—Peters', John M. Sons
BRASHER FALLS—Hulburd, S. W.
BUFFALO—Tindle & Jackson (Broom)
Niagara Handle & Ferrule Co. ("Neversplit" Tool)
Union Mfg. & Specialty Co.
COLD BROOK—Rhodes, Thos. P. (Haud Saw)
FREDONIA—Fredonia Handle Co. & Plane)
NEW YORK—American Fork & Hoe Co. (Fork, Rake, Hoe, Shovel, Spade, etc.), 11 B'way
Carpetner & Bayles (Wholesale), 91 Chambers
Estes, E. B. & Sons (All Kinds of Small), 74 Warren
Ives, W. A. Mfg. Co. (Auger), 299 B'way

NORTH CAROLINA.

BARNARD—French Broad Mfg. Co. (Pick)
CONOVER—Hunsucker, J. (Pick)
MORGANTOWN—Payne, J. N. & Son (Hickory, Sledge, etc.)

OHIO.

AKRON—Baker-McMillan Co. (Duster, Small Tool, etc.)
Kile Mfg. Co. (Hickory Hammer, Hatchet & ATTICA—Winchester, D. Handle Co. Toy)
CLEVELAND—American Fork & Hoe Co. (Fork, Rake, Hoe, Shovel, Spade, etc.)
National Handle Co. (Broom, Fork, Hoe, Rake, Spade, etc.)
COLUMBIANA—Columbiana Handle Works
COLUMBUS—Ohio Tool Co. (Chisel, File, Plane, Auger, etc.)
COLUMBUS GROVE—Jones, J. F. Sons (Sledge)
EATON—Hiestand & Co.
EDON—Sheline, E. R. & Son
FARMERSVILLE—Koepple & Bevington
HICKSVILLE—Hicks Mfg. Co.
KENTON—Young, J. W.
LIMA—Selfridge, O. B. Co.
MONROEVILLE—Yingling Bros. & Co.
NORWALK—McCrillis Handle Co. (Pick)
PIQUA—Piqua Handle & Mfg. Co. (Garden Rake, Fork, Hoe, Chisel, File, Auger, Screw Driver, etc.)
SANDUSKY—Sandusky Axe Handle Co. (Axe, Pick, Sledge, etc.)
Sandusky Tool Co. (Saw, Plane, File, Chisel, Awl, Auger, Cross-Cut Saw, etc.)
SHENANDOAH—McClain, J. K.
SIDNEY—Benjamin, C. R. & Son
SPENCERVILLE—Reynolds, W. A.
WAPAKONETA—Standard Churn Co. (Hay, Rake, Hoe & Broom)
WASHINGTON C. H.—Washington Mfg. Co.
WAUSEON—Wauseon Mfg. Co. (Fork)
XENIA—Xenia Handle Co. (Shovel, etc.)

PENNSYLVANIA

BEDFORD—McLaughlin, J. L. & Son (Axe)
BETHLEHEM—Strock, L. W. & Co.
CORY—Mahle, C. A. & Son (Ltd.) (For Small Tools)
ELDRED—Prouty, C. & Co. (Cross-Cut, Cant Hook, etc.)
GIRARD—Ely, Theo. J. Mfg. Co. (Cross Cut Saw, etc.)
HANOVER—Hanover Plow Handle Co.
HAZELHURST—Wescott, J. D.
KANE—Holgate Bros. Co. (Brush & Artist, etc.)
KINZUA—Sheldon, Mason
LAKE COMO—Williams, H. A.
LEECHBURG—Pittsburg Shovel Co. (See Pittsburg)
MANOR—Consolidated Handle Co. (Hickory)
NORRISTOWN—Brusher, J. B. (Axe)
PITTSBURG—Pittsburg Shovel Co. (Pick, Axe, Cant Hook, etc.)
QUAKERTOWN—Landis, S. H.
UNION CITY—Cafisch, Fred. (Pick & Sledge)
Clark, Haniel & Son (Shovel)
Novelty Wood Works Co. (Small Tool)
Union City Handle Co.
Westcott, J. D.
WARREN—Peterson, Samuel (Pick, Mining)

RHODE ISLAND.

PROVIDENCE—NARRAGANSETT MACHINE Co. (See adv. index, end of book)

TENNESSEE.

COOKEVILLE—Gregory, T. J.
JOHNSON CITY—Unaka Handle Co. (Hickory)
KNOXVILLE—Standard Handle Co. (Axe, Hammer, Hickory, etc.)
MEMPHIS—Hardwood Specialty Co. (Hickory)
NASHVILLE—Nashville Spoke & Handle Co. (Axe, Chisel, Pick, Sledge, Farming Tool, Parkes, Geo. S. & Co. etc.)
SEQUATCHIE—Sequatchie Handle Works
TULLAHOMA—Campbell & Dann Mfg. Co. (Inc.), (File & Chisel Handles in the White)

VERMONT.

BELLOWS FALLS—Derby & Ball (Fork, Scythe Snaths, etc.)
BURLINGTON—Vermont Shade Roller Co. (Mop)
EAST ARLINGTON—Judson Mfg. Co., (Kitchen Knife, Brush, etc.)

VIRGINIA.

BLACKSTONE—Blackstone Handshaved Handle Co. (Hickory)
FARMVILLE—Farmville Mfg. Co. (Plow)
GALAX—Galax Handle Works (Ltd.) (Hickory, Axe, Pick & Sledge, etc.)
MARION—Look & Lincoln (Plow)

WASHINGTON.

SULTAN—Johnson, G. W. & Son (Broom, etc.)

WISCONSIN

OSHKOSH—Oshkosh Tool Mfg. Co. (Axe, Sledge, Saw, etc.)

***Handles (Wood, Hand Tool, Switch, Etc.)**

NOVELTY TURNING CO., Norway, Me. (See adv. preceding page)

Handles (Wood, Fork, Shovel & Spade)

(See also Handles Wood.)

Alexander & Perkins (Fork), Sunapee, N. H.
American Fork & Hoe Co., American Trust bldg., Cleveland, Ohio.
Derby & Ball (Fork), Bellows Falls, Vt.
Iowa Farming Tool Co., Ft. Madison, Iowa.
Jackson Shovel & Tool Co., Montpelier, Ind.
Lewiston Handle Co. (Shovel & Spade), Lewiston, Me.
Marion Handle & Mfg. Co., Marion, Ind.
Montross, R. W., Galien, Mich.
National Handle Co., Cleveland, Ohio.
Peattie Handle Co. (Fork), Caruthersville, Mo.
Piqua Handle & Mfg. Co., Piqua, Ohio.
Richmond Handle Co. (Shovel & Spade), Richmond, Ind.
Standard Churn Co. (Fork), Wapakoneta, Ohio.
Wauseon Mfg. Co. (Fork), Wauseon, Ohio.
Withington & Cooley Mfg. Co., Jackson, Mich.

Handles (Wood, Pick & Sledge)

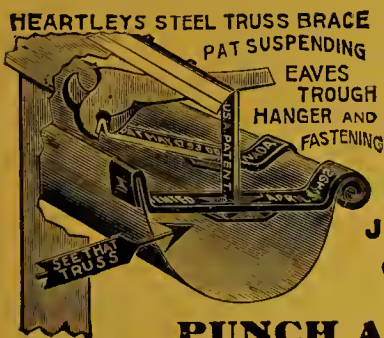
(See also Handles, Wood.)

Acme Handle Co., Merchants-Laclede hldg., St. Louis, Mo.
Berry, O. P. Co., Wolfboro Falls, N. H.
Cafisch, Fred., Union City, Pa.
Cantril Handle Mfg. Co., West Point, Iowa.
Clark, E. D. & Bro., Milford, Conn.
Dickinson, C. W., Ypsilanti, Mich.
Frankfort Handle Mfg. Co., Frankfort, Ind.
French Broad Mfg. Co. (Pick), Barnard, N. C.
Fulkerson Bros. Handle Co. (Sledge), Puxico, Mo.
Galax Handle Works, Galax, Va.
Hartigan, Wm. R., Collinsville, Conn.
Hartwell Bros., Chicago Heights, Ill.
Hartwell Mfg. Co., Huntingburg, Ind.
Harvey, H. H. Handle Co., Augusta, Me.
Hunsucker, J. (Pick), Conover, N. C.
Ivey, H. J., Beech Hill, Ga.
I. X. L. Handle Co., Dexter, Mo.
Jones, J. F. Sons (Sledge), Columbus Grove, O.
Kelsey, Horatio (Pick), Clinton, Conn.
Lakeman, E. P. (Sledge), Ashridge, Ala.
Lewiston Handle Co. (Sledge), Lewiston, Me.
McCrillis Handle Co., Norwalk, Ohio.
Nashville Spoke & Handle Co., Nashville, Tenn.

ESTABLISHED 1876.

HEARTLEY MACHINE, VARIETY IRON AND TOOL WORKS.

GEO. W. HEARTLEY, Proprietor.
MANUFACTURER OF



PATENT ROPE CLAMPING DEVICES

For Compressing Corn Shocks, Stretching Clothes Lines, Hammocks, Tents, Etc.

EAVES TROUGH HANGERS—SEVERAL STYLES.
Jobbers of Eaves Trough and Conductor Pipe and Elbows, Etc.

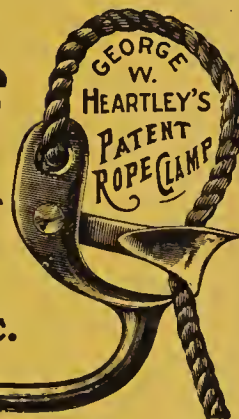
Combination Presses, Dies, Punches, Shears and Metal Working Machinery
and Tools for Patent Specialties,

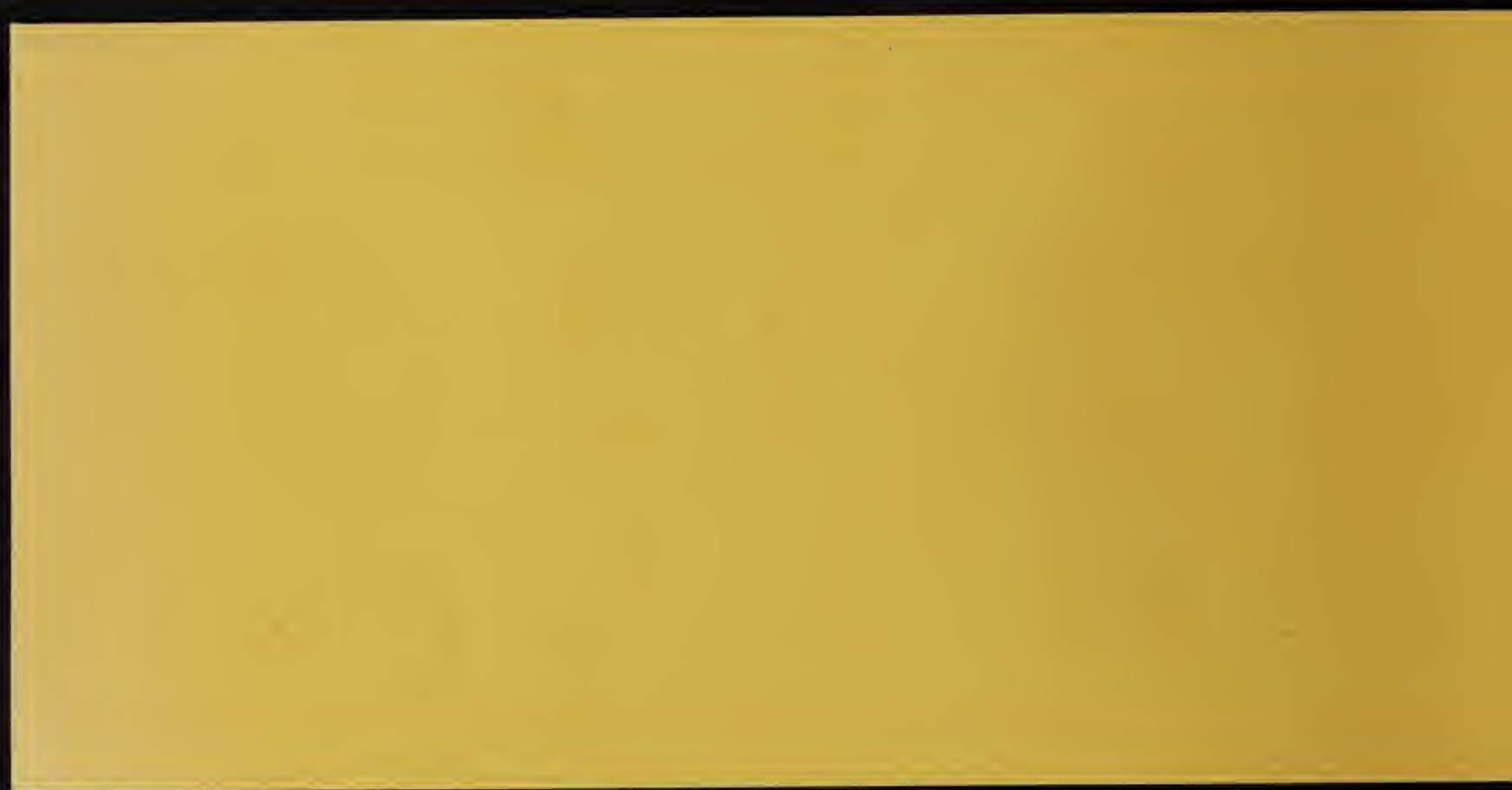
PUNCH AND DIE FORGING, MACHINE JOBBING, ETC.

Sheet Metal Stampings Made and Formed and Tools for Same.

900-902-904-906-908 Summit St.,

TOLEDO, OHIO.





Payne, J. N. & Son (Sledge), Morganton, N. C.
 Peterson, Samuel (Pick), Warren, Pa.
 Prouty, C. & Co. (Sledge), Eldred, Pa.
 Rogers-Meiser Handle Co., Paragould, Ark.
 Sandusky Axe Handle Co., Sandusky, Ohio.
 Standard Handle Co., Knoxville, Tenn.
 Tatem, John M., Eastport, Conn.
 Turner, Day & Woolworth Handle Co., Louisville, Ky.
 Union City Handle Co., Union City, Pa.

Hangers (Arc Lamp)

Adams-Bagnall Electric Co., Stanton st. & C. P. crossing, Cleveland, O.
 Anderson, Albert & J. M. Mfg. Co., 289 A st., S. B., Boston, Mass.
 Bissell, F. & Co. (M. & P. Insulated), Toledo, O.
 Cutter, Geo. Mfg. Co., 127 Fulton, Chicago, Ill.
 Fletcher Mfg. Co., Dayton, O.
GENERAL ELECTRIC CO., Schenectady, N. Y. & 44 Broad, New York. (See adv. index, end of book)
 Johns, H. W.-Manville Co., 100 William, New York
 Macallen Co., cor. Foundry & Division, Boston, Mass.
 Ohio Brass Co., Mansfield, O.
 Pass & Seymour, Solvay, N. Y.
 Western Electric Co., 259 S. Clinton & 57 Bethune, N. Y.

Hangers (Cable)

ANDERSON FORGE & MACHINE CO. (Manhole Cable), 271 Guoin, Detroit, Mich. (See adv. index, end of book)
 Barron, Jas. S. & Co., 127 Franklin, New York
 Bissell, F. Co., Toledo, O.
CHASE-SHAWMUT CO. ("Marlin"), Newburyport, Mass. (See adv. index, end of book)
 Chicago Nut Co., 207 S Canal, Chicago
 Hubbard & Co., Pittsburg, Pa.
 Hurd & Haggin, 316 Hudson, New York
 Johns, H. W.-Manville Co., 100 William, New York
 Lanz, M. & Sons, 101 S 29th, Pittsburg, Pa.
 Norton Tool Co. ("Little Giant"), West Park, Ohio
 Rhode Island Telephone & Electric Co., Providence, R. I.
 Standard Underground Cable Co., Westinghouse bldg., Pittsburg, Pa.
 Vought-Berger Co., La Crosse, Wis.
 Western Electric Co., 259 S. Clinton, Chicago, Ill. & 57 Bethune, N. Y.
 Yonkers Specialty Co., Yonkers, N. Y.

Hangers (Concrete)

DUPLEX HANGER CO. ("Duplex"), Cleveland, O. (See adv. in last column)
 Mulvey, Chas. Mfg. Co., 15 S. Jefferson, Chicago, Ill.
 Perkins & Howland, 217 Worthington st., Springfield, Mass.

Hangers (Conductor Pipe)

(See also Hangers, Eave Trough)
 Iwan Bros. (Wire), Streator, Ill.
MILWAUKEE CORRUGATING CO., Milwaukee, Wis. (See adv. index, end of book)

Hangers (Conduit)

CHASE-SHAWMUT CO. ("Shawmut"), Newburyport, Mass. (See adv. index, end of book)
 United Marine Mfg. & Supply Co., 100 William, New York

Hangers (Cycle)

Lane Bros. Co., Poughkeepsie, N. Y.
 Miller & Van Winkle, 18 Bridge, Brooklyn, N. Y.

Hangers (Door)

(See Door Hangers, Various Kinds.)

Hangers (Eave-Trough)

Abbott Mfg. Co., Painesville, O.
 Ambro, E. A. ("The Chautauqua"), Mayville, N. Y.
AMERICAN ROLLING MILL CO., Middletown, O. (See adv. index, end of book)
 Baker, J. R. & Sons Co., Kendallville, Ind.
 Berger Bros. Co., 237 Arch, Phila., Pa.
 Berger, L. D., 59 N 2d, Phila., Pa.
BERGER MFG. CO., Main Office & Works, Canton, O. (See adv. index, end of book)
BOSTWICK STEEL LATH CO., Niles, O. (See adv. index, end of book)
 Cambridge Roofing Co., Cambridge, O.
CANTON ART METAL CO., Canton, O. (See adv. index, end of book)
 Canton Cornice & Skylight Co. ("Badtloff"), Clark, Quien & Morse, Peoria, Ill. Canton, O.
 Conklin Tin Plate & Metal Co., Atlanta & Savannah, Ga.
EDWARDS MFG. CO., Eggleston av., bet. 4th & 5th, Cincinnati, O. (See adv. index & branch offices, end of book)
ELLER MFG. CO., Canton, O. (See adv. index, end of book)
 Excelsior Steel Furnace Co., 40 W Monroe, Chicago, Ill.
FRIEDLEY-VOSHARDT CO. (Inc.) ("Bell's" Adjustable), 194 Mather, Chicago, Ill. (See adv. index, end of book)
 Gray, R. H. ("Champion"), Columbia, Mo.
HEARTLEY MACHINE, VARIETY Iron & Tool Works, Toledo, O. (See adv. below)
 Horan Stay Hanger Co., Louisville, Ky.
 Indianapolis Steel Roofing & Corrugating Co., Indianapolis, Ind.
 Joliet Mfg. Co., Joliet, Ill.

MILWAUKEE CORRUGATING CO., Milwaukee, Wis. (See adv. index, end of book)
 Wheeling Corrugating Co., (Eave Trough & Conductor Pipe Fittings), Wheeling, W. Va.
 Wusterbarth Bros., Meriden, Conn.

*Hangers (Hinge & Rail)

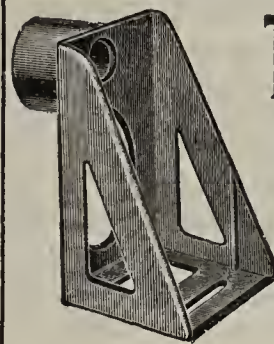
RICHARDS MFG. CO., Aurora, Ill. (See adv. index & branch offices, end of book)

*Hangers (I-Beam & Wall)

DUPLEX HANGER CO., Cleveland, O. (See adv. in last column)

Hangers (Joist)

CHICAGO BUILDERS' SPECIALTIES Co., 138 Washington, Chicago, Ill. (See adv. index, end of book)
 Clark, W. J. Co. ("Lane"), Salem, O.
 Columbian Hardware Co. ("Cleveland" Steel), Coe & Hamilton, Cleveland, O., & 168 Church, New York
DUPLEX HANGER CO., 168 Church st., New York, N. Y. (See adv. below)



**The Duplex
Hanger Co.
Cleveland, O.**

Goetz Box Anchor Co., New Albany, Ind.
 Lane Bros. Co., Poughkeepsie, N. Y.
 Lanz, M. & Sons, 101 S 29th, Pittsburg, Pa.
 Lincoln Iron Works, Boonton, N. J.
 Love Bros. (Inc.), Aurora, Ill.
MERRITT & CO., 1024 Ridge av., Phila., Pa. (See adv. index, end of book)
 Mulvey, Chas. Mfg. Co., 15 S. Jefferson, Chicago, Ill.
 National Iron & Wire Co. (Steel), Cleveland, O.
 Phillips, A. A., Jr. (Bridle Irons), 2219 Pitkin av., Brooklyn, N. Y.
REMPIS, WM. F. CO., Reading, Pa., & 1506 Sansom, Phila., Pa. (See adv. index, end of book)
RIESECK, P. (wrought steel), Allegheny av & Rebecca, Allegheny, Pa. (See adv. on following page)
 Schrelber, L. & Sons Co., 8th & Eggleston av., Cincinnati, O.
SMITH, F. P., WIRE & IRON WORKS, 100 Lake, Chicago. (See adv. index, end of book)
TAYLOR & DEAN, 205 Market, Pittsburg, Pa. (See adv. index, end of book)
 Trus-Con Mfg. Co. ("Trus-Con"), Detroit, Mich.
 Van Dorn Iron Works Co. (Steel), 2685 E 79th, Cleveland, O.
 Variety Mfg. Co. ("Mulvey"), Sacramento & Carroll av., Chicago, Ill.

Hangers (Messenger)

Norton Tool Co. (Combination), West Park, Ohio

*Hangers (Metal)

CHASE-SHAWMUT CO. ("Boston" Cable Clips), Newburyport, Mass. (See adv. index, end of book)

HEARTLEY MACHINE, VARIETY IRON AND TOOL WORKS

Manufacturer of
PATENT SPECIALTIES AND NOVELTIES.

Designer and Builder of
MACHINES AND TOOLS FOR SPECIAL WORK.

PRESSES, PUNCHES, DIES, TOOLS AND SPECIAL MACHINERY
FOR SHEET METAL STAMPING AND FORMING, ETC.

Bicycle and Metal Wheel Tools.

Power and Hand Punching and Shearing Machinery, PUNCH & DIE FORGING and SPECIALTIES, &c.

EAVES TROUGH HANGERS, Seven Styles,
and Jobber of

EAVES TROUGH AND CONDUCTOR PIPE AND ELBOWS, &c.

GEORGE W. HEARTLEY, Prop.,

900, 902, 904, 906, 908 Summit, corner Locust, TOLEDO, OHIO.



Hangers (Pipe)

Ahrens & Ott Mfg. Co., Louisville, Ky.
 American Hardware & Mfg. Co., Ottawa, Ill.
 Avery Stamping Co. ("Neverbreak"), Cleveland, Ohio.
 Badger Brass Mfg. Co., Kenosha, Wis.
 Bailey-Farrell Mfg. Co., Pittsburgh, Pa.
 Barrett, Jas. Mfg. Co. (Brass), 211 Franklin, Boston, Mass.
 Beaton & Corbin Mfg. Co., Southington, Conn.
 Belfield, H. & Co. (Multiple & Expansion), 435 N Broad, Phila., Pa.
 Berger Bros. Co., 237 Arch, Phila., Pa.
 Billings, D. L. Co. ("Perfect"), 780 Dudley, Boston, Mass.
 Blaiser, M. E. & Co., Utica, N. Y.
 Blake & Williams, 211 W 20th, N. Y.
 Buckley-Hart Mfg. Co. (Brass), 527 Franklin, Detroit, Mich.
 Cann & Saul, 516 Commerce, Philadelphia, Pa.
 Climax Specialty Co., Seneca Falls, N. Y.
 Cornell & Underhill, "Eureka," 45 Beach, N. Y.
 Crane Co. (Est. 1855), 519 S Canal, Chicago, Ill.
 (See adv. index & branch offices, end of book)
 Crawford Specialty Co. ("Crawford"), 100 North, Boston, Mass.
 Cryer, T. B. & Co., 249 High, Newark, N. J.
 Davis, John Co. ("Eclipse"), 69 Michigan, Chicago, Ill.
 Devlin, Thos. & Co. ("Kane," "National"), 3d & Lchigh av, Phila., Pa.
 Eureka Heating & Ventilating Co. ("Eureka"), Saginaw, Mich.
 Evory Mfg. Co. ("Mack"), 102 John, N. Y.
 Fee & Mason (Iron & Brass), 81 Beekman, N. Y.
 Flagg, Stanley G. & Co. (Malleable Iron), 19th and Pa. av, Phila., Pa.
 General Fire Extinguisher Co., Providence, R. I.
 Glenn Mfg. Co. ("Expansion Ring"), St. Charles, Ill.
 Griffing, A. A. Iron Co. ("Bundy," "Giant"), 449 Communipaw av, Jersey City, N. J.
 Hart-Ayres Plumbing Co. ("Ideal"), 4th av & Degraw, B'klyn, N. Y.
 Haydenville Mfg. Co., Haydenville, Mass., 150 Nassau, N. Y.
 Hayes Pnmp & Planter Co. ("Dack"), Galva, Ill.
 Hodgdon Brass Works (Brass), 421 Atlantic av, Boston, Mass.
 Hoffman-Billings Mfg. Co., Milwaukee, Wis.
 Hoopes & Townsend Co., 1330 Buttonwood, Phila., Pa.
 Illinois Malleable Iron Co. ("Chicago"), 30 W Monroe, Chicago, Ill.
 Jarecki Mfg. Co., Erie, Pa., & Pittsburgh, Pa.
 Kelly & Jones Co. ("Jones" Patent), 135 Water, Pittsburgh, Pa.
 Kriebel & Co., 826 Spring Garden, Phila., Pa.
 Knpperle, Jno. C. (Expansion), 2d & Mound, St. Louis, Mo.
 Libbey, Parker & Co. ("Victor"), 416 Atiantic av, Boston, Mass.
 Modern Iron Works (Expansion or Ring Hooks), Quincy, Ill.
 Moore, Joshua, Marseilles, Ill.
 Munford Heater Co., Galva, Ill.
 Mullaney's, Jas. Son (Brass), 25th & Lex. av National Supply Co., Toledo, O.
 Newbury, Jay H., Goshen, N. Y.
 Newbury Mfg. Co. (Adjustable Expansion, etc.), Monroe, N. Y.
 Park & McKay Co., 55 Bagley, Detroit, Mich.
 Peck Bros. & Co., New Haven, Conn.
 Penn Engineering Co. (Hanna Ball Joint), 312 Cherry, Phila., Pa.
PITTSBURG VALVE, FOUNDRY & CONSTRUCTION CO., 26th & A. V. Ry., Pittsburgh, Pa. (See adv. index, end of book)
 Plenger & Henger Mfg. Co., 11th & Herbert, St. Louis, Mo.
 Powhatan Brass & Iron Works, Charleston, W. Va.
 Reed Mfg. Co. ("Clark's" Adjustable), Erie, Pa.
 Register's, J. Sons Co., 49 W Holliday, Baltimore, Md.
 Rntzler, E. ("Universal"), 178 Centre, N. Y.
SIMMONS, JNO. CO. ("American," "Notherland"), 110 Centre, New York. (See adv. index, end of book)
 Sproul & McGurrian ("I. X. L."), Grand Rapids, Mich.
 Street & Kent Mfg. Co., 109 S Jefferson, Chicago
 United Metal Mfg. Co., 186 Wooster, N. Y.
 Victor Supply Co. ("Abbott"), Springfield, O.
 Walworth Mfg. Co., 132 Federal, Boston, Mass.
 Webb, F. W. Mfg. Co., 50 Elm, Boston, Mass.

Western Tube Co. (Expansion), Kewanee, Ill.
 Wolverine Brass Works, Grand Rapids, Mich.
 Young, Jos. H. ("Boston" Brass), 80 High, Boston, Mass.

Hangers (Post, Pressed Steel)

Standard Pressed Steel Co. ("American Pioneer"), 20th & Clearfield, Phila., Pa.

Hangers (Ring Oiling)

BROWN, A. & F. CO., 25 Dey, New York. Works: Elizabethport, N. J. (See adv. index, end of book)

DODGE MFG. CO., Mishawaka, Ind. (See adv. index & branch offices, end of book)

Hangers (Roller & Ball Bearing)

Auburn Ball Bearing Co. (Ball), Auburn, N. Y.
 Hyatt Roller Bearing Co., Harrison, N. J.
 Pressed Steel Mfg. Co. (Ball), Bourse bldg, Philadelphia, Pa.
 Standard Roller Bearing Co. (Roller & Ball), N 48th & Girard av, Phila., Pa.
 Valley Iron Works, Williamsport, Pa.

Hangers (Self-Oiling)

American Tool & Machine Co., 109 Beach, Boston, Mass.

BROWN, A. & F. CO., 25 Dey, New York. Works: Elizabethport, N. J. (See adv. index, end of book)

Brown & Sharpe Mfg. Co., Providence, R. I.
 Cresson, Geo. V. Co., Allegheny av, W of 17th, Phila., Pa.

DODGE MFG. CO., Mishawaka, Ind. (See adv. index & branch offices, end of book)

Fay, J. A. & Egan Co., S. Front & John, W., Cincinnati, O.

Falls Rivet & Machine Co., Cuyahoga Falls, O.
 Great Western Mfg. Co., Leavenworth, Kan.

Jones & McLaughlin Steel Co., Pittsburgh, Pa.
 McMurray, C. F. Co. ("Edison," Ball & Socket Adjustable Chain Oiler), Troy, N. Y.

Medart Patent Pulley Co., St. Louis, Mo.
 Platt Iron Works Co., Dayton, O., & 100 B'way, New York

Sprout, Waldron & Co., Muncy, Pa.

Taper Sleeve Pulley Works, Erie, Pa.
 Valley Iron Works, Williamsport, Pa.

Woonsocket, Machine & Press Co., Woonsocket, R. I.

Hangers (Shaft, Post, Bracket, Etc.)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

American Tool & Machine Co., 109 Beach, Boston, Mass.

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)

Barnard & Leas Mfg. Co., Moline, Ill.

BARTLETT, C. O. & SNOW CO., 26 French, nr Columbus, Cleveland, O. (See adv. index, end of book)

Bates Machine Co., Joliet, Ill.

BROWN, A. & F. CO., 25 Dey, New York. Works: Elizabethport, N. J. (See adv. index, end of book)

Burlingame, A. & Co., Worcester, Mass.

Chain Bell Co., Milwaukee, Wis.

Chase Turbine Mfg. Co., Orange, Mass.

Chickasaw Iron Works, Memphis, Tenn.

Cresson, Geo. V. Co., Allegheny av, W of 17th, Phila., Pa., & West st. bldg, N. Y.

Davis, F. M. Iron Works Co., 8th & Larimer, Denver, Col.

Dayton Globe Iron Works Co., Dayton, O.

DODGE MFG. CO., Mishawaka, Ind. (See adv. index & branch offices, end of book)

Ellicott Machine Co., Bush cor Severn, Baltimore, Md.

Exeter Machine Works, Pittston, Pa.

Falls Rivet & Machine Co., Cuyahoga Falls, O.; & 206 Fulton, New York

Forster Pulley Works, Cuba, N. Y.

Frick Co., Waynesboro, Pa.

Golden Foundry & Machine Co., Columbus, Ga.

Greenwaid, I. & E. Co., 720 E. Pearl, Cincinnati, O.

Hill Clutch Co., ft 58th, N W, Cleveland, O.

Hoppen, J. E. & Sons, Belleville, N. J.

Howard Iron Works, Buffalo, N. Y.

Hunt, Rodney Machine Co., Orange, Mass.

Huntsville Foundry & Machine Works (Nolan & Jones, Proprs.), Huntsville, Ala.

Jones, W. A. Foundry & Machine Co., 143 W North av, Chicago

Jones & Laughlin Steel Co., Pittsburgh, Pa.

Kaestner & Co. (Inc.), 241 S Jefferson, Chicago

Klein, Chas. C., 2850 N Marshall, Phila., Pa.

Keagy & Lear Machine Co., Coshocton, O.

Link Belt Co., 39th & Stewart av., Chicago, Ill., & 299 B'way, New York

Medart Patent Pulley Co. (Capillary or Ring Oiling), 3500 De Kalb, St. Louis, Mo.

Nordyke & Marmon Co., Indianapolis, Ind.

Platt Iron Works Co., Dayton, O., & 100 B'way, New York

Poole Engineering & Machine Co., Baltimore, Md.

Prybil, P. (Est. of) 512 W 41st, N. Y.

TUOHY BROS. (Mfrs'. Agents), 136 Liberty, New York. (See adv. index, end of book)

Union Iron Works, 222 Market, San Francisco, Cal.

Valley Iron Works, Williamsport, Pa.

Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.

Webster Mfg. Co., 1075 W 15th, Chicago, & 38 Dey, N. Y.

Witte Iron Works Co., Kansas City, Mo.

Woods, T. B. Sons, Chambersburg, Pa.

Woonsocket Machine & Press Co., Woonsocket, R. I.

Xocom, Jas. & Son (Adjustable), 145 N 2d, Phila., Pa.

Hangers (Shaft, Pressed Steel)

Standard Pressed Steel Co. ("American Pioneer"), 20th & Clearfield, Phila., Pa.

Hangers (Shaft, Structural Steel)

Nassau Machine Works ("Nassau"), 55 Furman, Brooklyn, N. Y.

Hangers (Sliding Blind)

Kidder, Danl. & Son, North Groton, N. H.

Hangers (Step)

Keystone Drop Forge Works (For Car Steps, etc.), Chester, Pa.

Hangers (Trolley Wire)

Creaghead Engineering Co., 313 Walnut, Cincinnati, O.

Eureka Tempered Copper Works, North East, Pa.

Ohio Brass Co., Mansfield, O.

Post-Glover Electric Co., 314 W 4th, Cincinnati, O.

***Hangers (Tubular Track)**

RICHARDS MFG. CO., Aurora, Ill. (See adv. index & branch offices, end of book)

***Hangers (Window Screen)**

STANLEY WKS. ("Schroeder-Peerless" Hanger & Fastener), New Britain, Conn. (See adv. index & branch offices, end of book)

Hardening & Tempering Processes, Etc.

(See Compounds, Case Hardening & Tempering)

Hardies

Evansville Tool Works (Straight & Circular Cut), Evansville, Ind.

WHEN YOU BUILD use the

RIESECK Patent Wrought Steel

Joist Hanger

P. RIESECK

Allegheny Ave. and Rebecca St.,
 Cheapest and Best. ALLEGHENY, PA.

Hard Oil Finish

Acme White Lead & Color Works, Detroit, Mich.
 Auglo-American Varnish Co., 55 Johnson, Newark, N. J.
 Allentown Mfg. Co., Allentown, Pa.
BERRY BROS. (Limited), Main Office & Factory, Detroit, Mich. (See adv. index and branch offices, end of book)
 Bridgeport Wood Finishing Co., New Milford, Conn.
 Brooks, Clarence & Co., 249 Chestnut, Newark, N. J.
 Buckeye Paint & Varnish Co., Toledo, O.
 Butcher Polish Co., 356 Atlantic av. Boston
 Chicago Varnish Co., Dearborn av & Kenzie, Chicago, Ill.
 Chicago Wood Finishing Co., 261 Elston av, Chicago, Ill.
 Continental Varnish & Color Co., 1315 W. 8th, Kansas City, Mo.
 Devoe, F. W. & C. T. Reynolds Co., 101 Fulton, New York
 Felton, Sibley & Co., 136 N. 4th, Phila., Pa.
 Flood & Conklin Co., 132 Chestnut, Newark, N. J.
FRENCH, SAMUEL H. & CO., 4th & Callowhill, Phila., Pa. (See adv. index, end of book)
 Gillespie, Chas. H. & Sons, 125 Dey, Jersey City, N. J.
 Glidden Varnish Co., Rockefeller bldg., Cleveland, O.
 Grippin Mfg. Co., Newark, N. J.
 Harrison Bros. & Co. (Inc.), 35th & Gray's Ferry rd., Philadelphia, Pa.
 M'Lennan Paint Co. (Ltd.), 175-195 Rano, Buffalo, N. Y.
 Macneal, Jas. B. & Co., Warner & Wooster, Baltimore, Md.
 Mitchell-Mallon Co., 1648 B'way, New York
 Mitchell & Wheeler, 319 N. J. R. R. av, Newark, N. J.
 Moller & Sebumann, Marey & Flushing avs, Brooklyn, N. Y.
 Murphy Varnish Co., Newark, N. J.
 Palmer-Price Co., 270 Chestnut, Newark, N. J.
 Smith, Edw. & Co., 45 B'way, New York
 Somerville, Wm. Sons (Wax Finish), 25 Ferry, New York
STANDARD VARNISH WORKS (Gutta Percha), 29 B'way, New York. (See adv. index and branch offices, end of book)
 Wilhelm, A. Co., Reading, Pa.

Hardware Bins (Movable)

Clark, W. J. Co., Salem, O.

Hardware (Builders' Rustless)

BOMMER SPRING HINGES

257 to 271 Classon av, Brooklyn, N. Y. (See adv. index, end of book)

Chicago Hardware Co., 40 Dearborn, Chicago, Ill.
 Columbian Hardware Co., Coe & Hamilton, Cleveland, O., 168 Church st., New York, N.Y.
 Corbin, P. & F., New Britain, Conn.
 Reading Hardware Co., Reading, Pa.
 Russell & Erwin Mfg. Co., New Britain, Conn.
 Sargent & Co., New Haven, Conn., & 94 Centre, New York
 Yale & Towne Mfg. Co., 9 Murray, New York
 Works: Stamford, Conn.

Hardware from Architects' Designs

Chicago Hardware Co., 40 Dearborn, Chicago, Ill.
 Corbin, P. & F., New Britain, Conn.
JACKSON, WM. H. COMPANY, 29 E 17th (Union sq.), New York. (See adv. index, end of book)
 Reading Hardware Co., Reading, Pa.
 Russell & Erwin Mfg. Co., New Britain, Conn.
 Sargent & Co., New Haven, Conn., & 94 Centre, New York

UNION EQUIPMENT AND BRONZE CO.

520 W 36th, N. Y. (See adv. outside stencil)
 Yale & Towne Mfg. Co., 9 Murray, New York

Hardware Mfrs.

(See also Hardware, Wholesale; also Hinge Mfrs.; also Lock Mfrs.; also Door Hangers; also Door Knob Mfrs.; also Sash Balance Mfrs.; also Nail Mfrs.; also Sash Weights; also Chains, Sash; also Cutlery Mfrs., etc.)

CALIFORNIA.

RIVERSIDE—Miller, Albert W. Mfg. Co. (Specialties)
 SAN FRANCISCO—Falls Mfg. Co. (Hardware & Specialties), 12 Drumm

CONNECTICUT.

BRIDGEPORT—Bridgeport Brass Co.
BRIDGEPORT CHAIN CO. (Sash chains, etc.). (See adv. index, end of book)
 Bridgeport Hardware Mfg. Corp.
 Burns, Silver & Co.
 Cornwall & Patterson Mfg. Co.
 Hotchkiss, Edw'd S. (Light)
 Hurwood Mfg. Co. (Inc.) (Screw Drivers, Chucks & Specialties)
 Knapp, Geo. S. (Specialties)
 Krouse, A. & A. L. (Metallic Cane & Umbrella Handles, etc.)
 Osborne, Geo. R. Co. (Novelties)
 Perfect Sliding Door (Sliding Door Hangers)
 Pliers, Punches, etc.)
 Smith & Egge Mfg. Co. (Pulleys, Chains, Pliers, Punches, etc.)
 BRISTOL—Root, Chas. J. (Butts)
 Sessions, J. H. & Son
 FORESTVILLE—Andrews, C. E. (Light)
 GUILFORD—Spencer's, I. S. Sons
 MERIDEN—Cortis Mfg. Co. (Specialties)
 Dayton, C. L. (Organ)
 Foster, Merriam & Co. (Casters, Drop Handles, Furniture Trimmings, Cabinet Hardware, etc.)
 Parker, Chas. Co. (Window Trimmings, etc.)
 MIDDLETOWN—Babcock, Fred. (Window Springs, etc.)
 Wilcox, Crittenden & Co. (Marine, etc.)
 NEW BRITAIN—Corbin Cabinet Lock Co.
 Corbin, P. & F. (Builders') (Trunk)
 Humason & Beckley Mfg. Co. (Hardware & Pocket Cutlery)
 Judd, Rollin D. (Builders & Saddlery)
 Landers, Frary & Clark (Inc.), (Cutlery & Hdw. Specialties)
 North & Judd Mfg. Co. (Harness Hardware, "Anchor Brand")
 Russell & Erwin Mfg. Co. (Builders)
 Stanley Rule & Level Co. (Carpenters' Tools)
STANLEY WORKS (Wrought Steel Butts, Brackets, etc.) (See adv. index, end of book)
 Taplin Mfg. Co. (Specialties)
 Union Mfg. Co. (Spring Hinges, etc.)
 NEW HAVEN—Atlas Mfg. Co. (Brackets, Wire & Sheet Metal Specialties), 125 Water
 Brown, R. H. & Co. (Specialties), 169 Ashman
 Cowles, C. & Co. (Inc.), Malleable & Brass Hinges & Locks), New Haven, Conn.
 English & Mersick Co. (Carriage & Automobile Hardware & Specialties), 72 Crown
 Fitch, W. & E. T. Co. (Sash Locks & Saddlery)
 Henn, A. S. & Co. (Specialties), 155 Union
 Ives, H. B. Co. (Sash, Locks Lifts, Fasteners, etc.)
 Kilborn & Bishop Co. (Forged), 81 Lloyd, New Haven, Conn.
 Mallory-Wheeler Co. (Padlocks)
 New Haven Paragon Mfg. Co. (Specialties), 58 Brewster
 Sargent & Co. (Locks, Builders', Cabinet, & General Hardware)
 Schollborn, Wm. Co. (Pliers, etc., & Hardware Specialties)
 Seward, M. & Son Co. (Wagon), New Haven, Conn.
 Scranton & Co. (Specialties), 42 Church
 Snow & Petrelli, New Haven, Conn.

OAKVILLE—Smith, S. & Son
 PLAINVILLE—Clark, A. N. & Son (Novelties)
 SOUTHTON—Peck, Stow & Wilcox Co.
 SOUTH NORWALK—Lockwood Mfg. Co. (Builders)
 Norwalk Lock Co. (Builders)
 TERRYVILLE—Eagle Lock Co. (Locks, etc.)
 THOMASTON—Thomaston Knife Co. (Pocket)
 TORRINGTON—Union Hardware Co. (Tools)
 WATERBURY—Americau Ring Co. (Upholstery & Cabinet), 531 Bank
 Berbecker & Rowland Mfg. Co. (Upholstery & Cabinet)
 Blake & Johnson (Piano & Organ & Butt Hinges, etc.)
 Fry, B. H. & Co. (Sash Weights & Builders')
 Modern Mfg. Corporation (Modern Rings & Loose Leaf Devices for Ledgers, Pamphlets, etc.)
 Noera Mfg. Co. (Specialties), 57 N Main
 Novelty Mfg. Co. (Specialties)
 Phoenix, Fred (Book Rings), 31 Canal
 Plume & Atwood Mfg. Co. (Brass Butts, etc.)

Scovill Mfg. Co. (Brass Butts, etc.), 99 Mill
 Shoe Hardware Co. (Buckles, etc.), 72
 Smith, Seymour & Son, Oakville
 Brown
 Waterbury Brass Goods Corporation (Brass Butt Hinges), 721 Bank
 Waterbury Mfg. Co. (Saddlery, Brass & Nickel Trimmings)
 WINSTED—Empire Knife Co. (Pocket)
 Morgau Silver Plate Co. (Casket & Coffin)
 Richards, T. O. Hdw. Co. (Brass & Iron Specialties)
 Strong Mfg. Co. (Casket & Coffins)

DELAWARE.

WILMINGTON—Diamond Shear Co. (Shears, etc.)

GEORGIA.

ATLANTA—Wood, A. A. & Sons Co.

ILLINOIS.

ARLINGTON HEIGHTS—Berbecker, Julius & Sons Co.
 AURORA—**RICHARDS MFG. CO. (Builders')** (See adv. index, end of book)
WILCOX MFG. CO. (Door Hangers & Kindred Specialties) (See adv. index, end of book)
 CHICAGO—Acme Flexible Clasp Co. (Metal Specialties), 2836 Archer av
 Adjustable Clamp Co., 941 Elston av
 Cassady-Fairbank Mfg. Co. (Specialties), 6106 La Salle
 Chicago Hardware Co. (Builders, etc.), 40 Dearborn
 Chicago Spring Butt Co. (Spring Butts, etc.), 54 Union Park PL
 Coleman Hardware Co. (Builders'), 168 Michigan av
 Duffy Mfg. Co. (Steel Tools & Hatchets), 125 Indiana
GARDNER SASH BALANCE CO., First National Bank bldg
 Harly Burglar Proof Ventilating Sash Lock Mfg. Co., 92 LaSalle
 Haynes-Bates Mfg. Co. (Combination Tools, Specialties), 79 Dearborn
 Hiles, C. A. & Co. (Ice Tools, Specialties), 14th & Western av
 Johnson, R. R. ("Johnson" Window Shade Adjuster), 257 66th
 King & Andrews Co. (Sash Weights), Chicago Heights
 Lawson Mfg. Co. (Ball Bearing, Pivot Floor Hinges, etc.), 40 Dearborn
 Nicol & Co. (Specialties), 57 W Washington
 Orr & Lockett Hardware Co. (Builders, etc.), 71 Randolph
 Payson Mfg. Co., 1319 W. Jackson boul
 Pratt, Wm. B. Mfg. Co., 91 Lake
 Prescott Hardware Mfg. Co. (Door Hangers), 78 Randolph
 Read, A. P. Co. (Specialties), 14 N Canal
 Reading Hardware Co. (Builders, etc.), 105 Lake
RICHARDS MFG. CO. (Builders'), 179 Lake. (See adv. index, end of book)
 Russell & Erwin Mfg. Co. (Builders, etc.), 22 Lake
 Schacht Mfg. Co., 2450 W Kinzie
STANLEY WORKS (Wrought Steel Butts, Brackets, etc.), 22 Lake. (See adv. index, end of book)
 Turner Brass Works (Specialties), 66 Michigan
 Vaughan & Bushnell Mfg. Co., 877 Carroll av
 Western Brass Mfg. Works (Inc.) (Builders', Cabinet, etc.), 21st pl c S Rockwell

FREEPORT—Arcade Mfg. Co.
 Stover Mfg. Co. (Builders, etc.), 165 River
 GALESBURG—Wenzelmann Mfg. Co. (Specialties)
 HARVARD—Hunt, Helm, Ferris & Co. (Bar Door Hangers, Latches, etc.)
 LOCKPORT—Barrows Lock Co.
 MORRIS—Nickel Mfg. Co. (Specialties)
 OTTAWA—American Hardware Mfg. Co. (Specialties, Door Catches, etc.)
 ROCKFORD—America Co. (Specialties)
 Andrews Wire & Iron Co. (Specialties)
 Sovereign, C. E. Co. (Specialties)
 STERLING—Lawrence Bros. (Door Hangers, Hinges, etc.)
 Sterling Foundry Co. (Specialties)

INDIANA.

INDIANAPOLIS—Poindexter Mfg. Co. (Specialties)
 Tucker & Dorsey Mfg. Co. (Specialties), State av c Bates

IOWA.

COUNCIL BLUFFS—Ney Mfg. Co. (Specialties)
KEOKUK—Decker Mfg. Co. (Specialties)
 Weber-Kirch Mfg. Co. (Specialties)
LYONS—United States Steel Lock Co.
OTTUMWA—Johnston & Sharp Mfg. Co. (Steel Sash Pulleys, etc.)

MAINE.

PORTLAND—Laughlin, Thos. Co.
 Marine Hardware & Equipment Co. (Marine)
 S. P.
SKOWHEGAN—Williams, C. A. & Co.
 (Hatchets, etc.)
SOUTH UNION—Jones, S. W. (Door Hinges)

MARYLAND.

BALTIMORE—Dix Mfg. Co., Hillen c Holliday
 Duer, Jno. & Sons (Cabinet, etc.), 36 S
 Charles
 Kemp, C. M. Mfg. Co. (Sash Locks, Hold-
 ers, etc.), 401 E Oliver
NATIONAL SUPPLY CO., 7 W Lombard. (See adv. below)
 Sinclair-Scott Co. (Specialties), Wells c
 Patapsco
 Sloan, F. B. & Co. (Sash & Blind), Phoenix
 bldg
 Stewart-Crook Hardware Co. (Builders), 7 N
 Liberty
 Whiting, Wm. H. & Co. (Marine Special-
 ties), 222 E Pratt

MASSACHUSETTS.

ATTLEBORO—Wilmarth, W. D. & Co., Corp'n
 (Casket)
BOSTON—Austin & Eddy (Builders), 117 Broad
 Barwood Mfg. Co. (Specialties), 387 Albany
 Crane Buckle Co. (Shoe Buckles), 112
 Water
 Ferdinand, L. W. & Co. (Marine), 201 South
 Hall, Wm. & Co. (Asylum & Prison Locks),
 etc., 4 Dock sq
 Hunter, J. B. & Co. (mfrs.' agts.), 60 Sumner
 Norton Door Check Co., 102 Pearl
 Weld Mfg. Co. (Shoe Buckles), 41 Lincoln
FISKDALE—Snel Mfg. Co. (Bits, Augers, etc.)
FITCHBURG—Babbitt Bros. Co. (Specialties)
GREENFIELD—Nichols Bros. (Cutlery)
NEEDHAM—Orr, Galen & Co. (Blind Trim-
 mings, etc.)
SOMERVILLE—Forg, P., 50 Park
SPRINGFIELD—Allen-Randall Co. (Black-
 smiths' Specialties), 336 Birnie av, Bright-
 wood
 Couch, L. J. Co. (Theatrical Specialties), 94
 Dwight
WALTHAM—Thomson, Judson L. Mfg. Co.
 (Buckles, Rivets, etc.)
WIOHENDON—New England Lock & Hinge Co.
 (Tin Hinges, Chest Locks, etc.)
WORCESTER—Allen, Chas. (Fire Department
 Supplies), 84 Foster
 Eagan, Thos. F. (Specialties), Blithewood
 av
 Hamblin & Russell Mfg. Co. (Specialties,
 Worcester, Mass.)
WORCESTER PRESSED STEEL
 Stamped Steel). (See adv. index, end of
 book)
 Hardware Supply Co. (Casters, Door Catches,
 Cabinet, etc.)

MICHIGAN.

BATTLE CREEK—Sigrist-Martin Co. (Spe-
 cialties)
DETROIT—Buhl Sons Co. (Nails, Roofing, etc.),
 103 Woodbridge av
 Detroit Register Co. (Specialties)
 Voelkner & Reinke Mfg. Co. (Cabinet &
 Furniture), 123 W Woodbridge
GRAND RAPIDS—Grand Rapids Hdw. Co., 3
 Pearl
 Hardware Supply Co. (Door Catches & Cabi-
 nets, etc.)

MINNESOTA.

FERGUS FALLS—Fergus Iron Works Co.
 (Sash Weights, Sinks, etc.)

MISSOURI.

ST. LOUIS—Baitinger & Berkley, 122 N 7th
 Hager, C. & Sons Hinge Mfg. Co., 2427 De
 Kalb
 Kupferle, John C. (Cobblers' Specialties), 2d
 c Mound
 Miller Lock Co. (Sash Locks), 219 N 4th
 Nixdorf-Krein Mfg. Co., 900 Howard
 Pleuger & Henger Mfg. Co., Herbert & 11th
 St. Louis Trunk Hdw. Mfg. Co. (Trunk
 Hdw.), 208 S 17th
 Seidel Mfg. Co. (Sash Pulleys, etc.), Chemie-
 al bldg

NEW HAMPSHIRE.

HINSDALE—Jennings & Griffin Mfg. Co.

NEW JERSEY.

FLEMINGTON—Mallory Mfg. Co. (Shutter
 Worker, etc.)
JERSEY CITY—Bell Specialty Co. (Specialties),
 20 Morris
NEWARK—Ahrend, Herman & Son (Trunk,
 etc.), 179 Van Buren
 Brabson Bros. (Specialties), Liberty c Ham-
 Drake, Mahlon S. ilton
 Felder, R. & Co. (Specialties), 2 Commer-
 cial
 Gilchrist Co. (Specialties), 131 Lafayette
 Gould's, M. Son & Co. (Trunk), 61 Hamilton
 Huebel Mfg. Co. (Specialties), 103 Monroe
 Jenkinson, R. C. & Co. (Sheet Metal & Wire
 Goods), 289 Washington
 Lukes, Wm. (Stationers' & Novelties), 857
 S 19th
 Romer & Co. (Inc.) (Lock, etc.), 275 Passaic
 White, Ira F. & Son (Specialties), 144 Wal-
 nut
 Wiss, J. & Sons (Cutlery), 683 Broad
TRENTON—Skillman Hardware Mfg. Co.

NEW YORK.

BINGHAMTON—Binghamton Hardware Spe-
 cialty Co. (Specialties)
 Crandell, Stone & Co. (Carriage & Wagon)
BROOKLYN—(See New York City, Borough of
 Brooklyn)
BUFFALO—American Hardware Mfg. Co. (Spe-
 cialties), 371 7th
 Brown, S. A. (Specialties), 358 Washington
 Buffalo Specialty Mfg. Co., 375 Ellicott
 Clark Mfg. Co. (Builders), 260 Chandler
 Forsyth Mfg. Co. (Specialties)

Josef, E. E. Mfg. Co. (Specialties), 80
 Washington
 Keim, Jno. B. (Specialties), Kensington av
 Parr Tool Co. & Erie R. R.
 Union Mfg. & Specialty Co. (Specialties),
 Mutual Life bldg
CHAPPAQUA—Schatz Hardware Mfg. Co. (Nail
 Pullers & Specialties)
ELMIRA—Cronk & Carrier Mfg. Co. (Special-
 ties)
GENEVA—Geneva Cutlery Co.
HOMER—Phoenix Hardware Mfg. Co.
MANLIUS—Cheney, S. & Son (Gray Iron Spe-
 cialties)

NEW YORK CITY.**Borough of Brooklyn.****BOMMER SPRING HINGES**

257 to 271 Classon av. (See adv. index,
 end of book)
 Brass Goods Mfg. Co. (Builders, Refrigerator &
 Specialties), Nevin cor Union

Boroughs of Manhattan & Bronx

NEW YORK—Bayer - Gardner - Himes Co.
 (Builders), 157 W 29th
 Chicago Spring Butt Co., 126 Chambers
 Corbin, P. & F., 11 Murray
 Eagle Lock Co., 98 Chambers
 Gould's, M. Son & Co. (Trunk), 83 Reade,
HAMMACHER, SCHLEMMER &
 Co., 133 4th av. (See adv. index, end of
 book)
 Hanson & Rhodes (Builders), 157 W 29th
 Jennings, C. E. & Co. (Mechanics' Tools &
 Specialties), 42 Murray
 Judd, H. L. Co. (Upholstery, Stationary &
 Fancy), 87 Chambers
 Kell, Francis & Son, 163d & Brook av
 Knickerbocker Hardware Co. (Shears,
 Knives, etc.), 299 B'way
McCABE HANGER MFG. CO. (Door
 Hangers, etc.), 425 W 25th. (See adv.
 index, end of book)
 Mallory-Wheeler Co., 23 Warren
 Morton, Thos. (firm of) (Sash Chains, etc.),
 169 Elm
 National Novelty Corporation (Builders' Spe-
 cialties & Toys, etc.), 826 B'way
 Norwalk Lock Co., 23 Warren
 Parker, Chas. Co. (Blind Trimmings, etc.),
 32 Warren
 Payson Mfg. Co. (Door Hangers, Spring
 Butts, Transom Lifts, etc.), 88 Chambers
 Peck, Stow & Wilcox Co. (Hinges, etc.), 31
 Warren
 Phoenix Hardware Mfg. Co., 84 Chambers
 Plume & Atwood Mfg. Co. (Butt Hinges,
 etc.), 29 Murray
 Reading Hardware Co., 96 & 98 Reade
RICHARDS MFG. CO. (Builders'),
 101 Reade. (See adv. index, end of book)
 Russell & Erwin Mfg. Co., 43 Chambers
 Sargent & Co., 94 Center
 Smith & Egge Mfg. Co., 62 Reade
STANLEY WORKS, 79 Chambers.
 (See adv. index, end of book)
 Tiebout, W. & J. (Brass & Galvanized), 118
 Union Mfg. Co., 95 Chambers Chambers
 Yale & Towne Mfg. Co., 9 Murray
 (END OF NEW YORK CITY)

The National Supply Company

5 and 7 West Lombard St., - - BALTIMORE, MD.,

WORKS: CURTIS BAY, MD.

Manufacturers of

BOLTS, NUTS, WASHERS and RIVETS of Every Description.

PLUMBERS BRASS GOODS, HOSE PIPES and COUPLINGS.

BLIND HINGES, GRINDSTONE FIXTURES and SMALL HARDWARE.

FURNITURE CASTERS OF ALL KINDS.

Wrought Iron Forgings and Brass Castings a Specialty.

POUGHKEEPSIE—Lane Bros. Co. (Door Hangers, etc.)
ROCHESTER—Caldwell Mfg. Co. (Sash Balances, etc.), 8 Jones
 Pullman Mfg. Co. (Sash Balances, Door Checks & Springs)
 Sargent & Greenleaf Co. (Locks)
 Streeter, N. R. & Co. (Specialties)
SARANAC LAKE—Adirondack Hardware Co.
SYRACUSE—Central City Bolt Co. (Door Hangers), 1618 N Salina
 Stearns, E. O. & Co. (Door Hangers, etc.), 100 Oneida
TROY—Kilbourne Mfg. Co. (Specialties), Ida Hill
WATERTOWN—Wise, Jas. B. (Specialties of Pressed Work)

OHIO.

CADIZ—Scott, Rogers & Co. (Specialties)
CANTON—Buckeye Mfg. Co. (Specialties)
 Elbel Co. (Saddlery, etc.)
 Gibbs Mfg. Co. (Specialties)
 Hurst, H. L. Mfg. Co. (Specialties)
CINCINNATI—Enterprise Brass & Plating Co. (Bar Fixtures), Clark & Harriet
 Schroder, J. B. & Co. (Builders, etc.), 132 E 5th
 Schriver, O. P. & Co. (Specialties), 214 Elm
 Tatum, S. O. Co. (Stationers), 414 W Water
CLEVELAND—Bronson-Walton, Station B.
 Cleveland Hardware Co., 1300 Lake
 Cleveland Lock Co., c Wash'n & Hamilton
 Columbian Hardware Co., Coe & Hamilton
 Eberhard Mfg. Co. (Carriage & Wagon), Tennyson & C P R R
 Giant Lock Co., 49 Wood
 Langenau Mfg. Co., Franklin av opp Lowell
 Russ, A. E. Mfg. Co., 87 Wade Park av
 Taylor & Boggis Foundry Co., 521 Seneca
 Walworth Run Foundry Co. (Specialties), 883 Empress
COLUMBUS—Hayden, P. Sadlery Hardware Co., 112 W Broad
 Safety Meter Lock Co. (Specialties)
 West Mfg. Co. (Specialties)
FREMONT—Herbrand Co. (Carriage & Wagon)
GENEVA—Champion Safety Lock Co. (Locks, etc.)
KENT—Miller, J. B.
LIMA—Van Wagoner Co. (Builders)
SHELBY—Shelby Spring Hinge Co. (Builders' Cabinet, etc.)

PENNSYLVANIA.

ALLEGHENY—McKinney Mfg. Co. (Hinges, Butts, Door Hangers), Market & Locust
ALLENTOWN—Kline Hardware Co. (Specialties)
COLUMBIA—Columbia Grey Iron Co. (Builders)
ELDRED—Platt's, C. Sons Cutlery Co. (Cutlery)
ERIE—Erie Specialty Co. (Ice Picks, Cork Screws, Coork, Pullers, etc.)
 Griffin Mfg. Co. (Strap & T Hinges, Brackets, Door Bolts, etc.)
FREEMANSBURG—Shlmer, Wm. Son & Co.
FULLERTON—Dent Hardware Co. (Refrigerator Trimmings)
GIRARD—Ely, Theo. J. Mfg. Co. (Specialties)
GLEN ROCK—Glen Rock Stamping Co. (Specialties)
LANCASTER—Safe Padlock & Mfg. Co. (Shelf Hardware)
 Slaymaker S. R. (Builders, Car & Ship)
LEONA—Ely, E. C. Co. (Specialties)
MEYERSDALE—Meyersdale Mfg. Co. (Locks, etc.)
PHILADELPHIA—Andrews Mfg. Co. (Door Knobs), 388 Harmony
 Brewer Bros. (Builders'), 614 Filbert
 Brohard Co. (Doorholders, etc.), 1624 N 9th
 Corblin Cabinet Lock Co., 925 Market
 Devlin, Thos. Mfg. Co. (Carriage, Saddlery, Trunk Tinnors, Builders, etc.), 3d & Lehigh av
 Enterprise Mfg. Co. (of Pa.) (Specialties), 3d & Dauphin
 Haddington Household Hardware Co. (Specialties), 5212 Girard av
 Hoag, R. C. & Co. (Builders, etc.), 11th & Catharine
 Hutton, R. W. & Co. (Specialties), 524 Walnut
 Miller Lock Co. (Locks), 4523 Tacony, Fkd.
 Nock, Geo. W. (Locks), 126 N 4th
 North Bros. Mfg. Co. (Screw Drivers & Specialties), Lehigh av & N American
 Reading Hardware Co., 617 Market
 Royal Mfg. Co. (Household Specialties), 408 Commerce

Russel & Erwin Mfg. Co., 19 N 5th
 Simpson, Jos. D. (Specialties), 724 Beach
 Smith, J. Barton Co. (Screw Drivers, Ice Picks, etc.), Norris & Hope
PITTSBURG—Steiner & Voegtly
 Woodwell, Jos. Co., 201 Wood
READING—Chantrell Tool Co. (Builders' Shelf)
 Franklin Specialty Co. (Hardware & Household Specialties)
 Keystone Hardware Co.
 Penn Hardware Co. (Builders, etc.)
 Rapp, N. N., 142 Orange
 Rapp, P., 919 Cotton
 Reading Hardware Co. (Builders, etc.)
WRIGHTSVILLE—Wrightsville Hardware Co. (Builders & Specialties)

TENNESSEE.

CHATTANOOGA—American Mfg. Co. (Light)
 McGregor, J. F. & Co. (Specialties)

VERMONT.

WINDSOR—Hubbard & McClary (Specialties, Hangers), 775 18th

WEST VIRGINIA.

WHEELING—Hazel Atlas Glass Co.

WISCONSIN.

MENASHA—Little, O. C. Pulley Coating Co. (Door Catchers, Window Fasteners, etc.)
 Menasha, Wis.
MILWAUKEE—Luitink & Sons Mfg. Co. (Door Hangers), 775 18th
RACINE—Racine Malleable & Wrought Iron Co. (Saddlery)
SOUTH MILWAUKEE—Stowell Mfg. & Foundry Co. (Wagon Malleables, Clevises, etc.)

Hardware Mfrs. (Automobile)

(See Mountings, Automobile; also Hardware Mfrs., Carriages.)

Hardware Mfrs. (Awning)

Baker, Jas. H., Park bldg, Pittsburg, Pa. Works, Tarentum, Pa.
 Snow, L. T., 698 Chapel, New Haven, Conn.
 Wilcox, Crittenden & Co., Middletown, Conn.

Hardware Mfrs. (Belt)

North & Judd Mfg. Co. (Buckles, Belts, etc.), New Britain, Conn.

Hardware Mfrs. (Cabinet)

American Ring Co., Waterbury, Conn.
 Berbecker, Julius & Sons Co., Arlington Heights, Ill.
 Berbecker & Rowland Mfg. Co., Waterbury, Conn.

BOMMER SPRING HINGES

257 to 271 Classon av, Brooklyn, N. Y. (See adv. index, end of book)
 Brass Goods Mfg. Co., Union & Nevins, Brooklyn, N. Y.

Burns, Silver & Co., Bridgeport, Conn.
 Coleman Hardware Co., 168 Michigan av, Chicago, Ill.
 Corbin Cabinet Lock Co., New Britain, Conn.
 Christeusch, Rudolph & Co., 54 Warren, New York
 Duer, Jno. & Sons, Baltimore, Md.
 Foster, Merriam & Co. (Casters, Pulls, Knobs, Escutcheons, etc.), Meriden, Conn.
HAMMACHER, SCHLEMMER & CO., 133 4th av, N. Y. (See adv. index, end of book)

Hardware Supply Co., Grand Rapids, Mich.
 Loeffelholz Co., Milwaukee, Wis.
 National Brass Mfg. Co., Cincinnati, O.
NATIONAL SUPPLY CO., 7 W Lombard, Baltimore, Md. (See adv. on preceding page)
 Orr & Lockett Hardware Co., 71 Randolph, Chicago, Ill.
 Reading Hardware Co., Reading, Pa.
 Sloan, Frank B. & Co., 10 S Charles, Baltimore, Md.
 Turner & Seymour Mfg. Co., Torrington, Conn.
 Voeltner & Reinke Mfg. Co., 123 W Woodbridge, Detroit, Mich.

Hardware Mfrs. (Car)

BOMMER SPRING HINGES

257 to 271 Classon av, Brooklyn, N. Y. (See adv. index, end of book)

Creamer, W. G. & Co., 96 John, N. Y.
 Mousley, Chas. & Sons (Brass & Bronze), 457 N 12th, Philadelphia, Pa.
 Slaymaker, S. R., Lancaster, Pa.

Hardware Mfrs. (Carriage)

Atwater Mfg. Co., Southington, Conn.
 Beckley-Balston Co. (Carriage & Automobile), 178 Lake, Chicago
 Blakeslee Forging Co., Plantsville, Conn.
 Cortland Specialty Co., Cortland, N. Y.
 Clapp, E. D. Mfg. Co., Auburn, N. Y.
 Cleveland Hardware Co., Cleveland, O.
 Cowles, C. & Co., New Haven, Conn.
 Crandell, Stone & Co., Binghamton, N. Y.
 Crane, W. T. Carriage Hardware Co. (Iron, Steel, Wheels, etc.), Newark, N. J.
 Dayton Malleable Iron Co., Dayton, O.
 Devlin, Thos. Mfg. Co., 3d & Lehigh av, Phila., Pa.
 Eberhard Mfg. Co., Cleveland, O.
 Eccles, Richard Co. (also Drop Forgings), Auburn, N. Y.
 English & Mersick Co., New Haven, Conn.
 Fernald Mfg. Co. (Quick Shifts, Anti-Rattlers, Whip Sockets, etc.), North East, Pa.
 Fletcher, Thos., Bridgeport, Conn.
 Harper, Walter J., Newark, N. J.
 Hawry, J. F. Co., 629 Lorain, Cleveland, O.
 Herbrand Co., Fremont, O.
 Hesse, W. G. & Son Mfg. Co. (Wagon), Leavenworth, Kans.
 Higgin Mfg. Co., Newport, Ky.
 Hutton, G. H. & Co., 1515 Harford, Baltimore, Md.
 Keystone Drop Forge Works (Drop Forge), Chester, Pa.
 Lanman, E. B. Co. (Corner Irons, Clip Ties, Felloe Plates, etc.), Columbus, O.
 Metal Stamping Co. (Carriage Trimmings & Hardware), 243 West, New York
 Monarch Carriage Goods Co., Cincinnati, O.
 Moore, Franklin Co., Winsted, Conn.
 Nelson & Call Co., Cortland, N. Y.
 Ochsner, A. & Son (Coach & Carriage Lamps), New Haven, Conn.
 Perpete Mfg. Co., 3 Wall, New Haven, Conn.
 Pratt & Letchworth Co., Buffalo, N. Y.
 Queen City Forging Co., cor Tennyson & DuMont, Cincinnati, O.
 Racine Malleable & Wrought Iron Co. (Wagon), Racine, Wis.
 Schroder, J. B. & Co., 133 E 5th, Cincinnati, O.
 Searls Mfg. Co. (and Carriage Mountings), 27 Mulberry, Newark, N. J.
 Seward, Moses & Son Co. (Wagon), New Haven, Conn.
 Smith, H. D. & Co., Plantsville, Conn.
 Specialty Mfg. Co. (Chafe Irons), 88 Tremont, Snyder's, Jacob Sons Co., Wheeling, W. Va.
 Stowell Mfg. & Foundry Co. (Wagon, Malleable, etc.), South Milwaukee, Wis.
 Strieby & Foote Co. (Drop Forgings, etc.), Newark, N. J.
 Topliff, I. N. Mfg. Co., 6602 Euclid av, Cleveland, O.
 White Mfg. Co., Bridgeport, Conn.
 Wilcox, D. Mfg. Co., Mechanicsburg, Pa.
 Woodruff, Walter W. & Sons Co. (Carriage & Automobile Mountings, etc.), Mt. Carmel, Conn.

WORCESTER PRESSED STEEL CO., Worcester, Mass. (See adv. index, end of book)

Hardware Mfrs. (Casket)

Eldridge & Co. (Coffin Plates, etc.), Taunton, Mass.
 International Silver Co. (Silver Plated), Meriden, Conn.
 Morgan Silver Plate Co. (and Funeral Supplies), Winsted, Conn.
 Rogers & Whitney Co., Westfield, Mass.

Hardware Mfrs. (Marine)

Blasier, M. E. & Co., 9 Charlotte, Utica, N. Y.
 Bilss Bros., 170 Commercial, Boston, Mass.
CARPENTER, GEO. B. & CO., 202 S Water, Chicago, Ill. (See adv. index, end of book)
 Detroit Shipbuilding Co. (Brass Department), Detroit, Mich.
 Durkee, Chas. D. & Co., 2 Water, New York

Laughlin, Thos. Co., Portland, Me.
McMILLAN'S, W. H. SONS, 153 South,
 New York. (See adv. index, end of book)
 Marine Hdw. Co. (Yacht), Peabody, Mass.
 Marine Hdw. & Equip. Co., South Portland,
 Me.
 Mousley, Chas. & Sons (Brass, Bronze, etc.),
 457 N. 12th, Phila., Pa.
 Pullman Mfg. Co., Rochester, N. Y.
 Slaymaker, S. R. (Also Ship), Lancaster, Pa.
 Torrey, J. G. & Son, Rockland, Me.
 Torrey Roller Bushing Works, Bath, Me.
 Turner Brass Works, 66 Michigan, Chicago, Ill.
 Union Hardware Co., Torrington, Conn.
 Watson, Frye & Co., Bath, Me.
 Whiting, Wm. H. & Co., 222 E Pratt, Balti-
 more, Md.
 Wilcox, Crittenden & Co., Middletown, Conn.
 Wilkinson, A. J. & Co., 188 Washington, Bos-
 ton, Mass.

Hardware Mfrs. (Piano & Organ)

Blake & Johnson, Waterbury, Conn.
 Cornwall & Patterson, Bridgeport, Conn.
 Davenport & Tracey Piano Co., Stamford, Conn.
 Haas, Henry & Son, 1909 Park av., New York.
 McGreece, James P. & Co., 34 Beach, Boston,
 Mass.
 Progressive Mfg. Co. ("Eagle"), Torrington,
 Conn.

Hardware Mfrs. (Saddlery)

American Rivet Co., 87 Orange, New Haven,
 Baldwin, Jos. & Co., Newark, N. J. Conn.
 Brabson Bros., Newark, N. J.
 Buerman, August (Bits, Spurs, Stirrups, etc.),
 37 N. J. R. R. av, Newark, N. J.
 Canton Malleable Iron Co., Canton, O.
 Chapman, W. H. Co., Middletown, Conn.
 Cooper, H. W., Moline, Ill.
 Covert Mfg. Co., West Troy, N. Y.
 Devlin, Thos. Mfg. Co., 3d & Lehigh av,
 Phila., Pa.
 Duranoid Mfg. Co. (Duranoid Specialties), New-
 ark, N. J.
 Eberhard Mfg. Co., Cleveland, O.
 Elbel Co. ("Owl Brand"), Canton, O.
 Fitch, W. & E. T. Co., New Haven, Conn.
 Frazer & Jones Co., Syracuse, N. Y.
 Freeman, A. W., 67 N. J. R. R. av, Newark,
 N. J.
 Gomph, Henry G. & Co. (Tools), 55 Madison
 av, Albany, N. Y.
 Greacen, Walter & Co., Newark, N. J.
 Grille Co., New Haven, Conn.
 Grossner, Fred W., 392 Bank, Newark, N. J.
 Hayden, P. Saddlery Hardware Co., Columbus,
 Ohio
 Hills, Edwin (Harness, etc.), Plainville, Conn.
 Judd, Rollin D., New Britain, Conn.
 Klenzle, W. F., 90 Ohio, Chicago, Ill.
 Klufkee's, Jno Sons (Harness Mountings, etc.),
 628 Race, Phila., Pa.
 Nashua Saddlery Hdw. Co., Nashua, N. H.
 North, O. B. & Co., New Haven, Conn.
 North & Judd Mfg. Co. ("Anchor" Brand, Sad-
 dlery, Blanket, etc.), New Britain, Conn.
 Ohio Brass Co., Mansfield, O.
 Racine Malleable & Wrought Iron Co., Racine,
 Wis.
 Read, O. B. Mfg. Co., Hall bldg, Troy, N. Y.
 Smith, G. L. & Co., Newark, N. J.
 U. S. Bridle Bit Co. (Bits, etc.), Oskaloosa,
 Kan.
 Wallace, F. J., 82 Britannia, Meriden, Conn.
 Whitehouse, Edw. A. (Specialty Silver Trim-
 mings), Newark, N. J.
 Williamsport Staple Co. (Harness Specialties),
 Williamsport, Pa.

WORCESTER PRESSED STEEL CO.
 (Stamped), Worcester, Mass. (See adv. in-
 dex, end of book)

Hardware (Mfrs.) for Sewing Machine Woodwork

Wise, J. B., Watertown, N. Y.

Hardware Mfrs. (Trunk & Bag)

Greystone Mfg. Co., Greystone, Conn.
 Jenkinson, R. C. & Co. (Sheet Metal & Wire
 Goods, etc.), Newark, N. J.
 Sessions, J. H. & Son (Malleable Iron & Steel
 Trimmings, etc.), Bristol, Conn.

Hardware Mfrs. (Upholstery)

Berbecker & Rowland Mfg. Co., Waterbury,
 Conn.
 Linton, W. H. Co., Ogdensburg, N. Y.

Hardware Specialties

(See specific article wanted.)

Hardware Trimmings (Porcelain)

(See Porcelain Specialties, Electrical, Me-
 chanical, etc.)

Hardware (Wholesale)

The firms under this classification are Whole-
 salers and firms who do a local Jobbing & Re-
 tail Trade.

ALABAMA.

ANDALUSIA—Benson Hardware Co. (General,
 Builders', Tools, Cabinet, Paints & Oils,
 etc.)
 ANNISTON—Anniston Hardware Co. (General
 & Saddlery)
 BIRMINGHAM—Crane Co. (General, Plumbers'
 & Machinery)
 Moore & Handley Hardware Co. (Shelf,
 Heavy & Carriage)
 Prowell Hardware Co. (General & Mining)
 Wimberly & Thomas Hardware Co. (General,
 Heavy & Tools)
 EUFAULA—Ross, J. L. (General)
 EUTAW—Cook-Rogers Hardware Co. (General,
 Builders', Tools, etc.)
 EVERGREEN—Wild Bros. Hardware Co.
 GADSDEN—Ewing Hardware Co. (General,
 Saddlery, Mine, Mill & Furnace)
 Smith-Echols-Burnett Hardware Co.
 GREENVILLE—Johnson, J. F. Hardware Co.
 HUNTSVILLE—Collins, M. A.
 McAnelly, J. H. & Bro.
 MOBILE—Barney-Cavanagh Hardware Co. (Gen-
 eral, Heavy, Ship Chandlery, etc.) (export-
 ers)
 Cunningham Hardware Co. (General &
 Heavy) (Exporters), 6 S Commerce
 Price, H. M. (General), 20 S Water
 Stikes Hardware Co.
 Young Hardware Co. (General)
 MONTGOMERY—Barnett, G. W. & Son (Gen-
 eral)
 Snow-Tullis Hardware Co. (General, Build-
 ers' & Tools)
 Teague & Sons (General & Heavy)
 OXFORD—Burton & Co.
 ROANOKE—Griffen & Satterwhite
 SELMA—Carothers, Rogers & Fowlkes (General
 & Machinery)
 Johnson, Coleman & Graham Hardware Co.
 (General)
 Schuster, Benj. J. (General, Builders' &
 Tisser Hardware Co. (General) Heavy)
 TROY—Simpson, C. A. & Co.
 TUSCALOOSA—Allen & Jemison Co. (General)

ALASKA.

JUNEAU—Jorgensen, J. P.
 Young, C. W.
 NOME—Darling & Dean

ARIZONA.

NOGALES—Proto Bros.
 Roy & Titcomb (Heavy, etc.)
 PHOENIX—Talbot & Hubbard
 PRESCOTT—Hill, Samuel
 SAFFORD—Olney, Geo. A.
 TUSCON—Steinfeld, Albert & Co.

ARKANSAS.

CAMDEN—Camden Hardware & Mill Supply Co.
 EL DORADO—Green, W. M. & Son
 FORT SMITH—Atkinson-Williams Hardware
 Co. (General & Heavy)
 Speer Hardware Co. (General, Machinery
 etc.)
 Webber-Ayers Hardware Co. (General &
 HARRISON—Lopp, A. J. & Co. Heavy)
 HELENA—Arkansas & Mississippi Hardware
 Co. (General, etc.)
 Tappan Hardware Co. (General, Builders',
 Tools, etc.)
 HOT SPRINGS—Whittington, Stearns & Co.
 (General, Heavy & Carriage)
 LITTLE ROCK—Fones Bros. Hardware Co.
 Rose-Lyon Hardware Co. (General & Heavy)
 MAGNOLIA—Davis & Warnock
 PINE BLUFF—Fox Bros. Hardware Co. (Gen-
 eral)
 McGaughy Hardware Co. (General & Stoves)
 TEXARKANA—Chatfield & Burnham
 Hoffman Hardware Co.
 Texarkana Hardware Co.

CALIFORNIA.

LOS ANGELES—Baker & Hamilton (General,
 Heavy & Machinery)
 California Hardware Co. (General, Builders'
 & Tools)
 Cass-Smurr-Damerel Co. (Jobbing Agents)
 (Stoves, Farming Tools, Hardware Special-
 ties, etc.)
 Davenport, L. M. Co. (Blacksmiths')
 Ducommun, O. (General, Tools, etc.)
 Harper & Reynolds Co. (General, Heavy,
 etc.)
 Hoffman Hardware Co. (General & Heavy)
 Holbrook, Merrill & Stetson (Stoves, Tin-
 ware, etc.)
 Montague, W. W. & Co. (Stoves, Tinware,
 etc.)
 Pacific Hardware & Steel Co. (All Lines in
 Iron & Steel)
 Percival Iron Co. (Heavy, Hardwood &
 Blacksmiths' Supplies)
 Union Hardware & Metal Co. (Heavy, Shelf,
 Oil Well, Brass, etc.)
 Wigmore, John & Sons Co. (Machine Tools,
 MARYSVILLE—White, Cooley & Cutts etc.)
 MODESTO—Turner Hardware Co.
 Wood, W. E. & Son
 OAKLAND—Mott, F. K. Co.
 PASADENA—Crown Hardware Co.
 PETALUMA—Schluckebier Hardware Co.
 SACRAMENTO—Baker & Hamilton (General &
 Heavy)
 Miller-Chapin-Enright Co. (Stoves, Tinware,
 Plumbers')
 Schaw, Batcher & Co. (General & Heavy)
 Thomson-Diggs Co. (General)
 SAN DIEGO—Ingle, Samuel G.
 SAN FRANCISCO—Arnold Hardware Co. (Mfrs.
 Agents) (Plumbers')
 Baker & Hamilton (General & Heavy)
 Dunham, Carrigan & Hayden Co. (Exporters)
 (General, Heavy, Railway, Steamship,
 Brass Goods, etc.)
 Holbrook, Merrill & Stetson (Plumbers' &
 Tinnings', Tools, Machinery, etc.)
 Maydwell, Chas. A., (Mfrs. Agents)
 Montague, W. W. & Co. (Stoves, Tinware,
 etc.)
 Pacific Hardware & Steel Co. (All Lines in
 Iron & Steel) (Exporters)
 Palace Hardware Co. (Machinists' Supplies)
 Pike, A. W. & Co. (Mfrs. Agents) (Hard-
 ware, Tools, etc.)
 Sellers Bros. & Co. (Stoves, Tinware, etc.)
 Tay, Geo. H. Co. (Plumbers' Supplies,
 Stoves, etc.)
 Tayler & Spotswood Co. (Carriage, etc.)
 Unna, Harry Co. (Tin & Enameledware, etc.)
 Van Winkle, I. S. & Co. (Com. Merchants)
 Waterhouse & Lester Co. (Carriage, Black-
 smiths' & Horseshoers', etc.)
 SAN JOSE—Montague, W. W. & Co. (Stoves,
 Stock, Jno. Sons Tinware, etc.)
 STOCKTON—Austin Bros.

COLORADO.

ASPEN—Tomkins, L. H. Hardware Co.
 COLORADO SPRINGS—Lowell-Meservey Hard-
 ware Co.
 DENVER—Dillon Hardware Co. (Heavy &
 Blacksmiths' & Wagonmakers' Supplies)
 Moore Hardware & Iron Co. (General, Heavy,
 Carriage & Blacksmiths')
 Rowntree, Jno. T. (Mfrs. Agent)
 Tritch, Geo. Hardware Co. (Gen'l & Heavy)
 LEADVILLE—Leadville Hardware Co.
 Tomkins, H. H. Hardware Co.
 OURAY—Arps Bros. Hardware Co.
 PUEBLO—Holmes Hardware Co.
 Killin, Jno. M. & Co.
 TELLURIDE—Tomkins, Hunt Hardware Co.
 (Inc.)
 TRINIDAD—Branson & Griswold Hardware Co.
 Brown, H. B. Hardware Co.
 VICTOR—Tomkins Hardware Supply Co.

CONNECTICUT.

BRIDGEPORT—Chapman & Bangs Co. (Heavy
 & Carriage)
 Hawley Hardware Co. (Builders' & Mfrs.)
 Hawley, T. & Co. (General, Builders' &
 Tools)
 Hunter & Havens (General, Heavy, Carriage
 & Blacksmiths')
 Lyon & Grumman (General, Shafting &
 DANBURY—Danbury Hardware Co. Tools)
 Hull Bros. & Co.
 DERBY—Hallock, F. Co.

HARTFORD—Blodgett & Clapp Co. (Importers)
(Heavy & Carriage)
Clapp & Treat (General & Sporting)
Cone, J. H. & W. E. (Builders')
Ensworth, L. L. & Son (Heavy, Mill & Carriage)
Francis & Co. (Builders', Shafting, etc.)
Tracy, Robinson & Williams Co. (General, Tools, etc.)
MERIDEN—Church & Morse (General & Heavy)
NEW BRITAIN—Abbe, A. H. & W. E.
NEW HAVEN—Bronson & Townsend Co. (General)
Bushnell, N. T. Co. (General, Tools, etc.)
Mersick, C. S. & Co. (General, Heavy, Carriage, Tinnings', Plumbers', Mill, etc.)
NEW LONDON—Dudley, Samuel (Carriage, Blacksmiths', Heavy, etc.)
Williams, G. M. Co. (Inc.) (General & Heavy)
NORWICH—Eaton, Chase & Co. (General, Mill, Electrical, etc.)
Preston Bros. (General, Electrical, etc.)
SHELTON—Clark, D. N.
WATERBURY—Hotchkiss & Templeton (General & Heavy)
WILLIMANTIC—Jordan Bros. (General & Sporting)

DELAWARE.

WILMINGTON—Capelle Hardware Co. (General & Heavy)
Delaware Hardware Co. (Builders', Coach & Heavy)

DISTRICT OF COLUMBIA.

WASHINGTON—Bowen, Wm. F. (General)
Kendall, J. Blake (Coach, Metals, etc.)
May, F. P. & Co. (General, Heavy & Cordage)

FLORIDA.

APALACHICOLA—Ruge, Herman & Sons
BRAIDENTOWN—Simmons, L. D. (General)
GAINESVILLE—Baird Hardware Co. (General & Heavy)
JACKSONVILLE—Balf-Conroy Co. (General, Builders', Tools, etc.)
Florida Hardware Co. (Inc.) (General & Heavy, Pumps, etc.)
Hubbard, S. B. Co. (Inc.) (General & Heavy, Boilers, Plumbers', etc.)
OCALA—Marion Hardware Co. (General, Mill & Mining)
PALATKA—Griffin, Martin & Co. (General & Kennerly, Hardware Co. Heavy)
PENSACOLA—Avery Hardware & Supply Co.
ST. AUGUSTINE—Hamblen, C. F. (General, Heavy, Saddlery, etc.)
SANFORD—Fernald, Geo. H. & Co. (General & Heavy)
TAMPA—Knight & Wall Co. (Inc.) (Exporters, General & Heavy)
Tampa Hardware Co. (General)

GEORGIA.

ALBANY—Bell, Wm. & Son
AMERICUS—Sheffield-Huntington Co. (Inc.) (General, Heavy, Saddlery, Agrl. Impls. etc.)
ATHENS—Athens Hardware Co. (Inc.) (General, Heavy, Carriage, etc.)
Fleming, Thos. & Sons (Inc.) (General)
Talmage Hardware Co.
ATLANTA—Alexander, J. M. & Co., 26 S Pryor
Anderson Hardware Co. (General)
Beck & Gregg Hardware Co. (General, Heavy & Carriage)
Dinkins & Davidson (General, Heavy & Carriage)
Hightower & Kirkpatrick (General & Carriage)
King Hardware Co. (General, Tinware, etc.)
Stonc, F. I. & Co. (Mfrs'. Agents)
AUGUSTA—Deveney, Hood & Co. (General)
Ramsey-Trowbridge-Smith Co.
Tarver, J. E.
COLUMBUS—Bush-Philips Hardware Co. (General)
DALTON—Bishop Hardware Co. (General)
FITZGERALD—Watt-Holmes Co. (General)
GAINESVILLE—Davidson & Pruitt Hardware
Palmour Hardware Co. Co. (General)
HAWKINSVILLE—Whitfield Hardware Co.
McRAE—Folsom & Tillman
MACON—Dunlap Hardware Co. (General, Heavy, etc.)
Merritt Hardware Co. (General, Heavy, etc.)
ROME—Griffin Hardware Co. (Inc.) (General, Tinware, etc.)

Rome Hardware Co. (Inc.) (General, Tinware, etc.)
Terhune, Nixon & Co. (General)
SAVANNAH—Balfour, Calvitt
Lovell's, Edw. Sons (General, Heavy & Carriage)
Palmer Hardware Co. (General, Heavy, Railway & Mill Supplies, etc.)
Peoples, H. H. & Sons (General)
Semmes Hardware Co. (General, Cutlery, etc.)
Weed, J. D. & Co. (General, Heavy, Rail-riage, Terne Plate, etc.)
VALDOSTA—Briggs, W. H. Hardware Co.
Thomas-Dekle Hardware Co.
WAYCROSS—Watt Hardware Co.

IDAHO.

BOISE—Carlson-Lusk Hardware Co. (General, Mining, etc.)
Northrop Hardware Co. (General, Heavy, etc.)
IDAHO FALLS—Idaho Hardware Co. (General, Builders', Tools, Household, etc.)
WALLACE—Coeur d'Alene Hardware Co. (General, Mining, etc.)

ILLINOIS.

BLOOMINGTON—Holder-Athey Hardware Co.
CAIRO—Woodward Hardware Co. (General & Heavy)
CHICAGO—Bettman, P. H. (Mfrs'. Agent), 12 State
Brittan, Arthur & Co. (Mfrs'. Agents), 19 Wabash
Bullard & Gormley Co. (General, Cutlery, Tools, Tin Plate, Sheet Iron, Metals), 78 Randolph
Hibbard, Spencer, Bartlett & Co. (General, Household, Cutlery, Tin Plate, Woodenware, Paints, Oils, etc.), 1 State
Hodge & Homer Co., 47 W Randolph
Hunt's, Edwin Sons (General), 180 Lake
Jones & Laughlin Steel Co. (Heavy, Railroad Supplies, Swedish Iron, etc.), Lake & Canal
Kelley, Maus & Co. (Wagon, Carriage, Blacksmiths', Iron, Steel, Woodstock, etc.), Lake Street Bridge
McVoy, Wessling Hardware Co., 75 Lake
Martin, A. Vere (Mfrs'. Agent), 40 Dearborn
Orr & Lockett Hardware Co. (General, Butchers' Tools & Refrigerators, Kitchen Furnishings), 71 Randolph
Picket, Wm. Son & Co. (Mfrs'. Agents), 52 Lake
Rehm Hardware Co. (General), 352 Blue Island av
Ryerson, Joseph T. & Son (Heavy, Iron & Steel Sheets, Plates, Bands, Bars, Angles, Boiler Mfrs'. Supplies, etc.), 18 Milwaukee av
Silverman, Emanuel (Cabinet), 90 Franklin
Trout Hardware Co. (General, Cutlery, Tools, Kitchen, etc.), 174 Lake
Weisbaum, Harry L. (Cutlery, Combs, etc.), 240 Madison

DANVILLE—Yeomans & Shedd Hardware Co. (General & Heavy)
DECATUR—Moorehouse & Wells (General, Heavy, Stoves, etc.)
ELGIN—Barclay, D. F.
Hawthorne Hardware Co.
FREEPORT—Weiss & Co.
JOLIET—Barrett Hardware Co. (General & Heavy)
MENDOTA—Holland & Co.
PEKIN—Velde, Roelfs & Co. (Shelf, Heavy, Carriage & Tools)
PEORIA—Clark, Quien & Morse (General, Tinnings' Stock, etc.)
Cummings & Emerson (Heavy, Carriage, etc.)
Walker, Isaac Hardware Co. (General, Tinnings', Guns, etc.)
QUINCY—Cottrell Hardware Co. (General, Cutlery, etc.)
Gunther Hardware Co.
Tenk Hardware Co. (General, Heavy, Cutlery, etc.)
ROCK ISLAND—Rock Island Hardware Co. (General & Heavy)
SPRINGFIELD—Miller, W. B. & Son
STREATOR—Powers & Williams

INDIAN TERRITORY.

CHICKASHA—Gilkey-Jarboe Hardware Co.
HUGO—Brooks, F. M. (General, Builders', Tools, etc.)
MUSKOGEE—Turner Hardware Co. (General & Heavy)

INDIANA.

BLUFFTON—Williamson Hardware Co.
COLUMBUS—Schwartzkopf, J. G. & Son
EVANSVILLE—Boetticher-Kellogg Co. (General, Guns, Tinware, etc.)
Clifford Hardware Co. (General)
Meyer Hardware Co.
Orr Iron Co. (Heavy, Blacksmiths', etc.)
Thiele, I. A. (Stoves & Tin)
FORT WAYNE—Mossman, Yarnelle & Co. (Heavy & Carriage)
Pfeiffer, Henry & Son (General)
Schlatter, C. C. & Co. (General, Builders', Seavey Hardware Co. Mill, etc.)
FRANKFORT—Dinwiddie & Gaddis
GOSHEN—Hawks Hardware Co. (General)
HUNTINGTON—Reichenbach & Wilkenhiser
INDIANAPOLIS—Builders' Supply Corporation (General, Builders', Paints, Oils, etc.)
Francke Hardware Co. (Cabinet, Builders', Tools, Upholstery Goods, etc.)
Holliday, W. J. & Co. (Heavy, Carriage, Shafting, Machine Shop Supplies, Wood-Layman-Carey Co. (General) stock, etc.)
Lilly & Stalnaker (General)
Van Camp Hardware & Iron Co. (General, Heavy, Carriage & Wagon Stock, Tinnings', Window Glass, Paints, etc.)
Vonnegut Hardware Co. (Builders', Cabinet, Heavy, Mill Supplies, etc.)
KOKOMO—Armstrong, Landon Co.
LAFAYETTE—Howe & Shipley (General, Stoves, Tinware, etc.)
LOGANSPOUT—Rice, E. S. & Son
Ulery, S. W. & Son
MARION—Marion Hardware Co.
MICHIGAN CITY—Staiger Hardware Co.
MUNCIE—Kimbrough Hardware Co.
NEW ALBANY—Stoy, Peter R. & Sons
NORTH VERNON—Tripp Bros. (General & Farm Machinery)
PETERSBURG—Read & Snyder
RICHMOND—Jones Hardware Co. (General, Agricultural Implements, etc.)
Pogue, Miller & Co. (General, Cutlery, etc.), 194 Ft Wayne
SOUTH BEND—Sibley, I. A. (General)
TERRE HAUTE—Austin, A. G. & Co., 608 Wabash av
Smith, C. C. Sons Co., 303 Wabash av
Townley Stove Co. (General, Tinnings' Supplies, etc.)
WASHINGTON—Carnahan, M. J. Co. (General)

IOWA.

BURLINGTON—Burlington Mfg. & Jobbing Co. (Heavy, Carriage, Plow, etc.)
Donahue, Robert Iron & Hardware Co. (Heavy, Blacksmiths', Carriage, etc.)
Drake Hardware Co. (General)
Schmidt, Chas. F. (General, Tinnings', etc.)
CEDAR RAPIDS—Adams, A. L. (Specialties)
Larimer, E. K. (Heavy & Wagon Stock)
CLINTON—Armstrong, C. E. & Co. (General)
Baldwin Bros. (Heavy, Carriage, etc.)
COUNCIL BLUFFS—Empkie-Shugart-Hill Co. (General)
DAVENPORT—Lamp, Peter Iron Co. (Heavy, Wagon, Blacksmiths', etc.)
Rascher, Schrick & Rascher Hardware Co. (General)
Reynolds Hardware Co.
Sickles, Preston & Nutting Co. (General)
Sieg Iron Co. (Heavy)
DES MOINES—Brown-Hurley Hardware Co. (General, Cutlery, etc.)
Des Moines Iron Co. (Heavy, Carriage, etc.)
Luther Hardware Co. (General, Cutlery, Tinware, etc.)
DUBUQUE—Ernsdorff, John Iron Co. (Heavy, Carriage, etc.)
Tredway, A. & Sons Hardware Co. (General, Heavy, Cutlery, etc.)
FORT DODGE—Prusia Hardware Co. (General, Vincent, H. S. Heavy, Tinware, etc.)
KEOKUK—Weber, A. Co. (General, Heavy, etc.)
LAKE MILLS—Styve & Son
MARSHALLTOWN—Abbott & Son
OSKALOOSA—Huber & Kallach Co. (General, Heavy, etc.)
OTTUMWA—Harper & McIntire Co. (General, Stoves, Cutlery, etc.)
Haw, Geo. & Co. (General, Heavy, Miners', etc.)
SIOUX CITY—Knapp & Spencer Co. (General, Stoves, Ranges, Heaters, etc.)
Sioux City Iron Co. (Heavy)
WATERLOO—Cutler Hardware Co. (General, Cutlery, Tools, etc.)

KANSAS.

ATCHISON—Blish, Milze & Silliman Hardware Co. (General)
 Harwi, A. J. Hardware Co. (General & Heavy)
 EMPORIA—Haynes Bros. (General) Heavy
 FORT SCOTT—Penneman, A. C. & Son
 HUTCHINSON—Colladay, Frank Hardware Co. (General, Tinware, etc.)
 LEAVENWORTH—Crancer, J. W. Hardware Co. (General, Tinnners', etc.)
 PARSONS—Steele Hardware Co.
 SALINA—Lee Hardware Co. (General & Heavy)
 TOPEKA—Culver & Bailey
 Forbes, D. H.
 Thompson, W. A. L. Hardware Co. (General, Heavy, Carriage, etc.)
 WICHITA—Shattuck-George Iron Co. (Heavy & Blacksmiths')

KENTUCKY.

ASHLAND—Henderson Hardware Co. (General, Mill, Mine, etc.)
 CATTLETTSBURG—Mims, A. Co. (General & Williamson, Ben. Hardware Co. Heavy)
 HENDERSON—Blackwell, P. A. & Co. (General)
 HOPKINSVILLE—Forbes Mfg. Co. (General, Tinware, etc.)
 LEXINGTON—Smith, Watkins & Co.
 Van Deren Hardware Co. (General & Heavy)
 LOUISVILLE—Belknap Hardware & Mfg. Co. (Inc.) (General, Heavy, Carriage, Saddlery, Fire Arms, Agricultural Implements, Roofing, Rope, Belting, Household, etc.)
 Floyd & Bohr Co. (General, Saddlery, Tinware, etc.)
 Fulton, Conway & Co. (Wagon & Carriage Makers' Tools, Supplies & Hardware, Wire Nails, etc.)
 Hidden, Otis Co. (Cabinet)
 Robinson Bros. & Co. (General, Cutlery, Saddlery, Guns, Agr'l Impl'ts, Paints, etc.)
 Stoue, I. F. & Sons Co. (Heavy, Carriage, Saddlery, etc.)
 Stratton & Terstegge (General, Stoves, Tinware, Tinnners' Supplies, Woodenware, Roofing, etc.)
 Todd-Donigan Iron Co. (Heavy, Wagon Makers' & Blacksmiths' Tools, Mine, Quarry & Railroad Supplies)
 MAYSVILLE—Owens, Frank Hardware Co.
 OWENSBORO—Guenther, W. A. & Sons (General, Heavy & Carriage, Railroad, Blacksmiths' & Miners' Supplies, etc.)
 PADUCAH—Hank Bros. (General)
 Hart, G. O. & Sons Co. (General, Heavy, Carriage, etc.)
 Scott Hardware Co. (General & Heavy)
 PAINTSVILLE—Foster Hardware Co. (General)

LOUISIANA.

ALEXANDRIA—Alexandria Hardware Co. Roberts Bros. (General) (Ltd.) (General)
 BATON ROUGE—Doherty Hardware Co. (General, Cordage, etc.)
 Fuqua Hardware Co. (General)
 Garig Hardware Co. (General, Agr'l Impl'ts, Guns, etc.)
 MONROE—Monroe Hardware Co. (General)
 NEW ORLEANS—Baldwin, A. & Co. (General, Heavy, Stoves, Machinery, Mill Supplies, Agr'l Impl'ts, Crockery, etc.)
 Pltard's, G. Sons (General, Paints, Wallpaper, etc.)
 Stauffer, Eshleman & Co. (Ltd.) (General, Heavy, Stoves, Cutlery, Fire Arms, etc.)
 Woodward, Wight & Co. (Ltd.) (General, Heavy, Cutlery, Mill Supplies, Ship Chandlery, etc.)
 United Hardware Co. (General & Heavy)
 RUSTON—Ruston Hardware & Supply Co. (General & Mill Supplies)
 SHREVEPORT—Lee Hardware Co. (General, Cutlery, Stoves, Glassware, etc.)
 Vordenbaumen-Eastham Co. (Ltd.) (General, Heavy, Agr'l Impl'ts, Crockery, etc.)
 THIBODAUX—Planters' Hardware & Mill Supply Co. (General, Heavy, Cutlery, Mill Supplies, etc.)

MAINE.

AUGUSTA—Brooks Hardware Co.
 Ward, A. D.
 BANGOR—Bragg, N. H. & Sons (Heavy, Carriage, etc.)
 Dickey, Wm. P. & Co. (General)
 Haynes & Chalmers Co. (General, Heavy, Saddlery, etc.)
 Rice & Miller (General, Explosives, etc.)

BATH—Johnson Bros. (General, Heavy, Ship Chandlery)
 BRUNSWICK—Eaton Hardware Co. (General)
 EASTPORT—Wadsworth, S. L. & Son
 HOULTON—Watson, John Co. (General, Cutlery, Agr'l Impl'ts, etc.)
 LEWISTON—Hall & Knight Hardware Co. (General, Plumbers', Pipe, etc.)
 PORTLAND—Bailey, Jas. Co. (Saddlery)
 Bradstreet, L. W. (Cutlery)
 Corey, E. & Co. (Heavy, Wagonmakers', Blacksmiths' & Lumbermen's Supplies)
 Edwards & Walker Co. (General & Heavy)
 Emery-Waterhouse Co. (General & Heavy)
 King & Dexter Co. (General, Cutlery, etc.)
 Talbot, Brooks & Ayer (General)
 ROCKLAND—Crle, H. H. & Co. (General)

MARYLAND.

BALTIMORE—Anderson & Ireland Co. (General), 123 Light
 Carliu & Fulton (General, Cutlery, Paints, etc.), 309 W German
 Cole, W. H. & Sons (General, Heavy, Cutlery, Explosives, Contractors' & Electrical Supplies), 40 S Charles
 Duer, Jno. & Sons (Cabinet), 36 S Charles
 Duke-Peterson Hardware Co. (General, Heavy, Cutlery & Fire Arms) (Importers), 5 N Hopkins pl
 Edmunds & Galloway (Builders', Cutlery, Fire Arm, etc.), 121 W Pratt
 Fuller, William & Co. (Tin Plate, Metals & Tinnners' Supplies), 111 S Charles
 Hardware Supply Co. (General, Cutlery, Guns, etc.), 34 Light
 Hubbard & Eagleston (Builders', Stable Fixtures, Cutlery, Tools, etc.), 120 W Baltimore
 Keidel, Henry & Co. (Mfrs. Agents) (Shelf, Heavy, etc.), 405 W German
 Lyon, Conklin & Co. (Tin Plate, Metals, etc.), 15 Balderston
 Neily, Joseph W. (Marine), 1731 Thames
 Norris, R. W. & Sons (Carriage), 346 N Gay
 Parker, E. L. & Co. (Tin Plate, Metals, etc.) (Importers), 201 S Charles
 Payne, E. Scott & Co. (Carriage, Builders', Horseshoers' Supplies, etc.), 362 N Gay
 Sloan, Frank B. & Co. (Cabinet & Builders'), Phoenix bldg
 Stewart-Crook Hardware Co. (Builders'), 7 N Liberty
 Wehr, H. & Co. (Heavy, Scrap Iron, Metals, etc.), Pratt c President
 Whiting, W. H. & Co. (Marine), 222 E Pratt
 Wier & Wilson (Mfrs. Agents) (Shelf & Heavy), 319 N Charles
 Wilcox Hardware & Iron Co. (General), 406 N Gay
 CUMBERLAND—Potomac Hardware Co.
 Wilson & Pugh (General, Mining & Mill Supplies)
 FREDERICK—Hargett, P. L. & Co. (plies)
 SALISBURY—Dorman & Smyth Hardware Co.
 Gunby, L. W. & Co. (General, Machinery, etc.)

MASSACHUSETTS.

BOSTON—Allen & Lotts (Cabinet), 169 Summer
 Austin & Doten (Angles, "Ts", Sheet & Plate Steel, Boiler Rivets, Tin Plate, etc.), 102 North
 Baldwin, Robbins & Co. (General, Farming Tools, Cutlery, Paints) (Exporters), 99 Pearl
 Bigelow & Dowse Co. (General, Heavy, Builders', Machinists', Mine, Skates, Cutlery, Household, etc.), 229 Franklin
 Breck, Joseph Cons Corporation (Agr'l, Ice Tools, Woodenware, etc.), 51 N Market
 Brown-Wales Co. (Heavy, Structural, Power Transmission Machinery, Plumbers' & Steam Fitters' Supplies, Iron Workers' Tools & Machines, Shafting, etc.), 69 Purchase
 Burditt & Williams Co. (General & Builders', "Marty" Mouse & Rat Traps), 4 High
 Butts & Ordway Co. (Heavy & Carriage), 190 High
 Chandler & Barber (Tools, Cutlery & Builders'), 124 Summer
 Chandler & Farquhar (General, Machine Tools & Machinists' Supplies), 36 Federal
 Chase, Parker & Co. (Heavy, Carriage, etc.), 83 Pearl
 Cutter, W. Bowman (General & Paints), 19 Warren, Roxbury
 Dame, Stoddard & Co. (Cutlery, Fishing Tackle, Skates & Fancy) (Importers), 374 Washington

Dana Hardware Co. (General, Cutlery, Fire-arms, Saddlers', Cordage, etc.) (Exporters), 28 Pearl
 Dodge-Haley Co. (Heavy, Carriage, Contractors' Tools, Railway Supplies, Cast, Spring & Tire Steel) (Importers Norway Iron), 218 High
 Eldridge & Winnek (General, Tools & Woodenware), 128 Pearl
 Evans, McVoy & Co. (General, Machinists' & Carpenters' Tools, Cutlery, Cabinet & Furniture), 41 Washington
 Fitz, Dana & Co. (Pig Copper, Tin, Lead, etc., Heavy, Sheet Metals, Steel, etc.) (Importers Russian & Swedish Iron), 10 North
 Frye, Phipps & Co. (General, Woodenware, etc.), 23 Pearl
 Graves, Brown & Co. (General), 141 Federal
 Hardware Agency Co. (Mfrs'. Ag'ts) (Builders'), 224 Franklin
 Harvey, A. C. Co. (Heavy, Carriage, Blacksmiths', Tin Plate, Sheet Iron) (Importers Norway, Swedish & Russian Iron), 374 Congress
 Herrick Co. (Tin Plates, Sheet Metals, Pig Lead & Tin, Timmen's Machinery & Supplies, etc.) (Importers), 47 Broad
 Richards & Co. (Inc.) (Tin Plate, Sheet Iron, Metals, etc.), 200 Causeway
 Sanderson, E. P. Co. (Iron, Steel, Heavy & Carriage Materials), 37 Washington, N.
 Waite, Ranlet & Co. (Tin Plate, Tinnners' Supplies, Sheet Iron, Metals), 80 Broad
 Warren, M. C. & Co. (General & Builders'), 9 Dock sq
 Wilkinson, A. J. & Co. (General, Tool Steel, Tools, Sheet Brass, Rods & Wire), 180 Washington
 FALL RIVER—Callahan & Daley Co.
 Congdon, Carpenter & Co.
 Neill, Joseph O.
 Pearce, W. G. & Co.
 FITCHBURG—Damon & Gould Co.
 Fitchburg Hardware Co. (General & Heavy, Agr'l Tools, etc.)
 Lawrence, Sous & Co. (General & Carriage)
 HAVERHILL—Hanscom Hardware Co. (General, Blacksmiths', etc.)
 HOLYOKE—Rackliffe, C. W. (General, Cutlery, etc.)
 Russell, J. & Co. (General & Carriage)
 LAWRENCE—Treat Hardware & Supply Co.
 LOWELL—Adams Hardware & Paint Co. (General)
 Bartlett & Dow (General & Agr'l Tools)
 Boutwell Bros. (Heavy, Carriage & Blacksmiths')
 Thompson Hardware Co. (Builders', Cutlery, Tools)
 LYNN—Collins Hardware Co. (General)
 Hutchinson, W. Henry (Est. of) (General)
 MIDDLEBORO—Pierce, Thos. W.
 NEW BEDFORD—Butler, Wm. P. (General, Tinware, Cutlery, Tools)
 Dion, J. B. (Builders' & Household)
 NORTH ADAMS—Burlingame & Darbys (General & Heavy)
 PALMER—Buck & Co. (General, Saddlery, etc.)
 PITTSFIELD—Peirson Hardware Co. (General & Heavy)
 SPRINGFIELD—Chapman & Brooks Co. (General)
 Foot, Homer & Co. (General, Heavy, Carriage, etc.)

When writing to firms
 whose names appear
 in this book please
 mention

**HENDRICKS'
 COMMERCIAL
 REGISTER.**

Graves, Geo. A. & Sons (General, Heavy, Builders', Tools, etc.)
 Law, J. Douglas (Builders', Cutlery, Tools, etc.)
 Lewis, Charles C. Co. (Carriage & Heavy)
TAUNTON—Pierce Hardware Co.
 Washburn, Frank R.
WORCESTER—Blake, Geo. F., Jr., & Co. (Heavy, Carriage, etc.)
 Duncan & Goodell Co. (General, Cutlery, Tools, etc.)
 Ross Bros. (General, Agr'l Impl'ts, etc.)
 Waite, H. M. (General, Builders' Tools, etc.)
 Worcester Hardware Co. (Builders', Cutlery, Tools, etc.)

MICHIGAN.

ALPENA—Potter Bros.
BAY CITY—Bay City Hardware Co.
 Bialy Hardware & Supply Co.
 Jennison Hardware Co. (General & Heavy)
CALUMET—Carlton Hardware Co.
CHEYBOYGAN—De Gowin, Isaiah E.
DETROIT—Buhl Sons Co. (Heavy, Shelf, Builders', Cutlery, Tin Plate, Metals, Iron & Steel, etc.), 103 Woodbridge, W
 Fletcher Hardware Co. (General, Household, Cutlery, etc.), 61 Woodbridge, W
 Freeman, Delamater & Co. (General, Heavy, Cutlery, Iron & Steel), 8 Woodward av
 Rayl, T. B. & Co. (General, House Furnishings, etc.), 112 Woodward av
 Roehm & Davison (Heavy & Carriage), 93 Woodbridge av
 Scherer, H. & Co. (Carriage), 280 Jefferson av
 Standart Bros. (Ltd.) (General), 155 Woodbridge
 Strelinger, Chas. A. Co. (Heavy, Tools, etc.), 96 Bates
 Weber, Henry C. & Co. (General, Household, etc.), 10 Gratiot
ESCANABA—Delta Hardware Co. (General & Heavy)
GRAND RAPIDS—Clark-Rutka-Weaver Co. (Shelf, Heavy, Cutlery, Tools, etc.)
 Foster, Stevens & Co. (General, Heavy, Kutsche, Wm. P. Sporting Goods)
 Van Bree, Arie
HOUGHTON—Swift, I. E. & Co. (General & Ironwood—Lesselyong, Frank H. Heavy)
JACKSON—Smith-Winchester Co. (General, Heavy, Carriage, etc.)
KALAMAZOO—Edwards & Chamberlain Hardware Co. (General, Heavy & Carriage)
MANISTEE—Wolters-Baley Co. (General)
MARQUETTE—Manhard, M. R. & Son (General & Heavy)
MENOMINEE—Northern Hardware & Supply Co. (General, Heavy, Tools, etc.)
MONROE—Steiner, Wm. (General, Heavy, etc.)
PETOSKEY—Raynolds, Chas. A. (General)
PORT HURON—Beard, Campbell & Co. (General, Heavy, Carriage, etc.)
 Boyce Hardware Co. (General, Heavy, Tinware, etc.)
SAGINAW—Buckout, B. B. (General)
 Morley Bros. (General, Heavy, Saddlery, Carriage, etc.)
 Saginaw Hardware Co. (General, Heavy, etc.)
SAULT STE MARIE—Soo Hardware Co. (General & Heavy)

MINNESOTA.

DULUTH—Kelley-How-Thompson Co. (General, Heavy, etc.)
 Marshall-Wells Hardware Co. (All Lines in Steel & Iron)
MINNEAPOLIS—Derickson, G. P. & Co. (Cabinet)
 Hurty-Simmons Hardware Co. (General, Farming Tools, etc.)
 Janney, Semple, Hill & Co. (General, Cutlery, Shelf & Heavy, Plumbers', Tinware, Sheet Metal, Firearms, Cordage, Rope, etc.)
 Minneapolis Iron Store Co. (Heavy, Blacksmiths', Wagonmakers' & Machinists' Tools & Supplies)
 Morrison, W. K. & Co. (also Retail) (Household, Fancy, Builders', etc.)
 Williams Hardware Co. (Heavy, Wagonmakers' & Blacksmiths' Supplies)
OWATONNA—Thompson & Roell Hardware Co. (General)
ST. PAUL—Crane & Ordway Co. (Heavy, Plumbers', Steam & Gas Fitters' Supplies, etc.)
 Decker, Adam & Co. (General, Tinnners' Supplies, Cutlery, etc.)

Farwell, Ozmun, Kirk & Co. (General, Tinnners' Tools & Supplies, Butchers' Tools & Supplies, Builders', Household, Saddlery, etc.)
 Hackett-Walther-Gates Hardware Co. (General, Builders', Tools, Tinnners' Stock, Cutlery, Shelf, Wagon & Saddlery, etc.)
 Marshall, Wells Hardware Co. (See Duluth)
 Nichols, Dean & Gregg (Heavy, Iron Steel, Lumbermen's Supplies, etc.)
STILLWATER—Stillwater Hardware Co.
WINONA—Cone, R. D. & Co. (General)

MISSISSIPPI.

ABERDEEN—Lanu & Carter Hardware Co. (General)
COLUMBUS—Columbus Hardware Co.
GREENWOOD—Henderson & Baird (General & Heavy)
 Mann Hardware Co. (General & Heavy)
JACKSON—McClelland, Thos. Hardware Co.
MERIDIAN—Melton Hardware Co. (General, Cutlery, etc.)
 Meyer-Neville Hardware Co. (General, Ship Chandlery, etc.)
NATCHEZ—Baker & McDowell Hardware Co. (General, Agr'l Impl'ts, Crockery, etc.)
 Schwartz & Stewart (General, Agr'l Impl'ts, etc.)
VICKSBURG—Hoffman, Louis Hardware Co.
 Richardson-Lee Co. (General, Tinware, etc.)
 Wright Bros. (General)
YAZOO CITY—Crane-Hinman Hardware Co. (General)
 Yazoo Hardware Co. (General & Heavy)

MISSOURI.

CLINTON—Haysler Hardware Co.
DEXTER—Miller, Ulen & Carter
HANNIBAL—Kanstner, Wm. (General)
JEFFERSON CITY—Lohman, L. C.
JOPLIN—Halyan Hardware Co.
 Joplin Hardware Co.
KANSAS CITY—Bonniwell, Calvin Iron Co. (Carriage & Wagon)
 Brunner, H. J. Hardware Co.
 Bunting-Stone Hardware Co. (General)
 Faeth Iron Co. (General, Plow, Carriage, Blacksmiths', etc.)
 Richards & Conover Hardware Co. (Heavy, Shelf, Tin, etc.)
 Townley Metal & Hardware Co. (General, Tinware, Plumbers', etc.)
NEOSHA—Briggs-Centers Hardware Co. (General & Heavy)
SEDALIA—Knight-Marshall-Howe Hardware Co. (General, Heavy, Carriage, etc.)
 Smith, D. H. Hardware Co. (General & Heavy)
ST. JOSEPH—Burgess-Frazier Iron & Hardware Co. (Heavy, Carriage, etc.)
 Curtin & Clark Hardware Co. (Cutlery & Specialties)
 Robison Heavy Hardware Co. (Heavy & Carriage)
 Wyeth Hardware & Mfg. Co. (General, Heavy & Saddlers')
ST. LOUIS—Beck & Corbitt Iron Co. (Heavy, Iron, Steel & Carriage & Wagonmakers' Supplies)
 Campbell Iron Co. (Heavy, Iron, Steel, etc.)
 Geller, Ward & Hasner Hardware Co. (General, Tinware, etc.)
 Handlan-Buck Mfg. Co. (Supplies for Railways, Foundries, Machine Shops, Mill & Mines & Heavy Hardware, Machine Tools, etc.)
 Norvell-Shapleigh Hardware Co. (General, Cutlery, Household, Cordage, etc.)
 Rubelman-Lucas Hardware Co. (Heavy, Mfrs.' Supplies)
 Schroeter Bros. (General)
 Simmons Hardware Co. (General, Builders', Farming Tools, Cutlery, Household, Tinnners' Tools & Supplies, Metal Roofing, Paints, Oils, etc.)
 Sligo Iron Store Co. (Heavy, Wagon makers', Blacksmiths' & Machinists' Supplies, Paints, Varnishes, etc.)
 Witte Hardware Co. (General, Cutlery, Household, etc.)
SPRINGFIELD—McGregor-Noe Hardware Co. (General, Builders', Cutlery, etc.)
 Rogers & Baldwin Hardware Co. (Heavy, Carriage, etc.)
WEBB CITY—Franz-McCain Hardware Co. (General)

MONTANA.

ANACONDA—Anaconda Copper Mining Co. Stagg, J. P. (General, Heavy & Mining)
BILLINGS—Babeock, A. L. Hardware Co.
 Billings Hardware Co. (General & Heavy)
BUTTE—Anaconda Copper Mining Co.
 Davis, John E. (General)
 Montana Hardware Co. (General, Heavy & Mining)
GREAT FALLS—Murphy-MacClay Hardware Co. (General, Heavy, Carriage, etc.)
HELENA—Helena Hardware Co. (General)
 Holter, A. M. Hardware Co. (General, Heavy, Mining, etc.)

NEBRASKA.

FREMONT—Lee-Miller Hardware Co. (General)
HASTINGS—Lawson, C. R. Hardware Co.
 Mortiz & Burnham
HUMPHREY—Murphy Hardware & Implement Co.
LINCOLN—Lincoln Hardware Co. (General, Heavy, etc.)
OMAHA—Baum Iron Co. (Heavy, Carriage, Tools, etc.)
 Broatch, W. J. Iron Co. (Heavy, Carriage, etc.)
 Lee-Glass-Andreesen Hardware Co. (General)
 Morton, Jas. & Son Co. (General)
 Wright & Wilhelmy Co. (General)
SEWARD—Goehner, J. F. & Bro. (General)

NEW HAMPSHIRE.

CONCORD—Thompson & Hoague Co. (General, Heavy, Carriage, etc.)
MANCHESTER—Manchester Hardware Co. (General & Heavy)
 Varick, John B. Co. (General, Heavy, Carriage, etc.)
NASHUA—Barr Hardware Co.

NEW JERSEY.

ELIAZBETH—Elizabeth Hardware Co. (General)
MORRISTOWN—Phillips & Day
NEWARK—Banister & Pollard
 Coe, James A. & Co. (Heavy, Shelf, Blacksmiths' & Wagonmakers' Supplies, Steel, Sheet Metals, Machinists' Supplies, etc.)
 Conover, J. B. Co. (Heavy, Factory & Mill Supplies)
 Crane & Milligan (General, Plumbers' Supplies, etc.)
 Gray, Robert, Jr. (General & Heavy)
 Macknet & Doremus (General, Heavy, Plumbers', etc.)
 Rising & Thorne
 Roe & Conover (General, Heavy, Plumbers', Steamfitters', Tools)
PATERSON—Cleveland, J. W. (General, Butchers' & Grocers' Supplies)
 Doremus & Snyder (General & Blacksmith's & Wheelwrights' Supplies)
 Mills, H. W. & Co. (General & Heavy)
 Myers, Geo. A. & Co. (Builders', Mill, Factory & Plumber's Supplies)
 Van Winkle, J. A. Co. (General & Heavy)
TRENTON—Katzenbach, F. S. Co., 35 E State

NEW MEXICO.

ALBUQUERQUE—Whitney Co.
SILVER CITY—Cosgrove, E.

NEW YORK.

ALBANY—Albany Hardware & Iron Co. (General, Heavy, etc.)
 Waterman Hardware Co. (General, Tools, etc.)
 Woodward Co. (Carriage, Wagon, Saddlery, etc.)
ALBION—Waterman, G. M.
AMSTERDAM—Larrabee, John E. (General & Heavy)
BATH—Peck, Geo. W. Co.
BINGHAMTON—Babcock, Huds & Underwood (General & Heavy)
 Crocker & Ogden (General, Heavy, Carriage, etc.)
 Harris, Geo. M.
BUFFALO—Beals & Co. (General, Heavy, Carriagemakers', Mill & Factory Supplies), 44 Terrace
 Bergman Bros. (General & Household), 102 Seneca
 Buffalo Wholesale Hardware Co. (General & Heavy), 317 Washington
 Hauck, Adam & Sons, 505 Main
 Republic Metalware Co. (Tinnners' Supplies & Metals), 60 Tecumseh

Walbridge & Co. (General & Household), 392 Main
 Weed & Co. (General, Heavy, Cutlery, Tools, Railway & Shop Supplies, Silverware, etc.)
 COHOCTON—Peck, Geo. W. Co.
 ELLENVILLE—Du Bois, L. & Co.
 ELMIRA—Barker, Rose & Clinton (General & Booth, Irving D. (Heavy) Heavy)
 Gridley, G. A. & Sons (General & Heavy)
 FORT PLAIN—Williams & Tanner Co. (General)
 GLENS FALLS—De Long's Sons
 GLOVERSVILLE—Batcheller, E. S. & Co.
 Durkee, E. L. & Co.
 HORNELLVILLE—Peck, Geo. W. Co. (General)
 ITHACA—Rumsey, C. J. & Co.
 Treman, King & Co. (General)
 KINGSTON—Johnson, J. T. (General & Heavy)
 Winne, L. S. & Co. (General, Blacksmiths', etc.)
 LITTLE FALLS—Shepherd, Skinner & Co.
 LOCKPORT—Chadwick & Morris
 MALONE—Short & Wilding (General & Heavy)
 Thompson, H. D. & Co. (Heavy, Saddlery, MEDINA—Acer & Whedon etc.)
 Hanlon Bros.
 NEWBURGH—Lawson Hdw. Co.
 Van Duzer, J. H. & Co. (General)

NEW YORK CITY.

Borough of Brooklyn.

BROOKLYN—Kiley, Thos. W. & Co., 57 Grand
 Riug, Chas. E. & Co., 40 S 8th

Boroughs of Manhattan & Bronx

NEW YORK—Alder, Benj. S. (Mfrs'. Agents & Exporters), 37 Warren
 Allerton-Clarke Co. (Inc.), Mfrs'. Agents (Builders', Shelf, Tools, etc.), 79 Reade
 Baker & Hamilton (General, Agr'l Impl'ts, etc.), 257 B'way
 Barrou, Jas. S. & Co. (Woodenware, Skates, etc.) (Exporters), Franklin & W B'way
 Baynon, C. A. Co. (Jobbers & Commission) (General & Heavy), 99 Reade
 Biddle Purchasing Co. (Purchasing Agents & Commission Buyers), 78 Reade
 Blumberg, W. L. & Co., 97 Chambers
 Boker, Hermann & Co. (Importers of Hardware, Cutlery, etc.), 101 Duane
 Bruce & Cook (Tin Plate, Metals, etc.), 188 Water
 Burger & Baumgard (Cutlery, etc.) (Jobbers & Exporters), 105 Chambers
 Carpenter & Bayles (Hardware, Handles, etc.) (Domestic & Export), 91 Chambers
 Carter, R. K. & Co. (Purchasing Agents & Commission Buyers), 66 Reade
 Cavanagh Bros. & Co. (Woodenware & House Furnishings), 104 Reade
 Cbovey, Chas. L. & Co. (Woodenware & House Furnishing), 179 West
 Corak & Bernstein (Cutlery), 217 Grand
 Curley, J. & Bro. (Cutlery, etc., Domestic & Export), 318 B'way
 Curtiss, Geo. B. (Mfrs'. Agent) (Tools & Hardware Specialties), 84 Chambers
 Droscher, S. R. (Mfrs'. Agent & Importer of Cutlery, etc.), 79 Warren
 Duryee, Peter & Co. (Jobbers & Retailers of General Hardware), 227 Greenwich
 Early's, Jno. Sons (Woodenware, Tinware, Haruess, etc.), 127 Reade
 Eggers, Aug. (Exporter) (Hardware, Implements, Gas & Steam Fitters' Specialties), 103 Chambers
 Emmons, F. R. & Bro. (Commission), 32 Warren
 Field, Alfred & Co. (Importers & Exporters) (Cutlery, Guns, Anvils, Chains, etc.), 93 Chambers
 Folsom, H. & D. Arms Co. (Importers & Exporters) (Guns, Sporting Goods, etc.), 314 B'way
 Fox, Wm. B. & Bro. (Importers & Exporters, Purchasing Agents & Commission Buyers), 21 Warren
 Frasse, Peter A. & Co. (Importers, Jobbers, etc.) (Mechanics' Tools, etc.), 94 Fulton
 Frasse & Co. (Importers, Jobbers, etc.) (Mechanics' Tools, etc.), 134 Liberty
 Fuller Bros. (Exporters Hardware Carriage Materials, Wheels, etc., & Importers of Hardware & Cutlery, etc.), 309 B'way
 Gifford, Jno. A. (Exporter & Importer of Carriage Hardware & Supplies), 22 Murray
 Goldberg, Chas H. & E. S. (Importers & Exporters) (Woodenware, Cordage, etc.), 114 Reade
 Graef & Schmidt (Cutlery), 107 Chambers

Graham, Jno. H. & Co. (Mfrs. & Mfrs'. Agents & Exporters of Hardware, Tools & Specialties), 113 Chambers
 Halpin, Matthew D., 62 Reade
HAMMACHER, SCHLEMMER & Co., 131 4th av. (See adv. Index, end of book)
 Hanton, Matthias C. (Builders' Hardware & Locksmiths' Supplies), 103 Chambers
 Hardware Jobbers' Purchasing Co. (Purchasing Agents & Commission Merchants), 71 W B'way
 Harmon & Dixon (Mfrs'. Agents, Hardware & Specialties), 117 Chambers
 Harris, Delancey P. (Mfrs'. Agent & Commission Merchant, Domestic & Export), 48 Warren
 Hartley, M. Co. (Importers & Exporters, Guns, Sporting Goods), 313 B'way
 Hendricks & Class (Mfrs'. Agents) (Heavy, & Marine, Tools, Ship Chandlery, Railway & Dock Builders Supplies, etc.), 25 W B'way
 Hett & Elias (Carriage & Wagonmakers' Supplies), 238 E 113th
 Ingersoll, Robert H. & Bro. (Jobbers & Exporters, Specialties, Novelties & Sporting Goods), 67 Cortlandt
 Jacobus, Wm. H. (Mfrs'. Agent) (Builders & General, Specialties), 155 Chambers
 Jennings, C. E. Co. (Mfrs'. Agents & Exporters) (Mechanics' Tools & Specialties), 42 Murray
 Judd, H. L. & Co. (Brass Goods & Fancy Hardware), 87 Chambers
 Kleiue, Wm. E. & Co. (Wagon & Carriage Materials), 120 W B'way
 Lau, J. H. & Co. (Importers & Wholesalers, Firearms, etc.), 75 Chambers
 McCarty, J. C. & Co. (Mfrs'. Agents) (General & Blacksmiths', Machinists, & Garden Tools, etc.), 10 Warren
 McCoy, Jos. F. Co. (Mfrs'. Agents, Importers & Exporters of Heavy Hardware, Cutlery, Tools, etc.), 157 Chambers
 Manning, Maxwell & Moore (Railway & Machine Tools & Supplies), 85 Liberty
 Markt & Co. (Importers & Jobbers) (House Furnishing Goods & Hardware Specialties), 193 West
 Masbach Hardware Co. (Mfrs'. Ag'ts) (Shelf, Cutlery & Specialties), 84 Warren
 Montgomery & Co. (Tools & Supplies for Machinists, Railroads, Mills, Contractors, etc.), 105 Fulton
 Murray, Robert (Screws, Shovels, Hoes, etc.), 24 Duane
 Neal & Brinker Co. (Mfrs'. Agents) (Washing Machines, Refrigerators, Water Coolers & Hollow Ware), 18 Warren
 Newhall, Henry B. (Mfrs'. Agent) (Heavy Hardware, Builders' & Contractors' Supplies), 9 Murray
 Oakman Bros. Co. (Mfrs'. Agents) (Cutlery & Tools), 45 Murray
 Ogden, J. E. Co. (Factory Supplies), 147 Cedar
 Oliver Bros. (Syndicate Purchasing Agents) (General & Heavy, Plumbers' Supplies, etc.), 127 Duane
 Pacific Hardware & Steel Co. (See San Francisco), 90 W B'way
 Patterson Bros. (General, Tools & Supplies; Cater to Consumer), 27 Park row
 Patterson, Gottfried & Hunter (Machinists', Railroad, Mill & Contractors' Tools & Supplies), 146 Centre
 Patterson, Herral & Gray (Cutlery, House Furnishing, etc.), 85 Chambers
 Pearsall, Robert (Mfrs'. Agent) (Cutlery, Tools, etc.), 93 Chambers
 Peck & Mack Co. (Importers & Exporters & Mfrs'. Agents) (General), 356 B'way
 Peck, Wm. E. & Co. (General Exporters), 116 Broad
 Pryor, W. W. & Co. (Mfrs., Mfrs'. Agents & Importers) (Tools, House Furnishing Goods & Painters' Specialties), 49 Warren
 Quinn, W. H. & Co. (Commission & Mfrs'. Agents), 103 Chambers
 Robinson, M. W. Co. (Mfrs'. Agents) (Firearms, etc.), 79 Chambers
 Ross & Fuller Association (Direct Representatives of American Mfrs. of Hardware), 309 B'way
 Russell, J. & Co. (Cutlery), 37 Reade
 Russell & Erwin Mfg. Co. (Mfrs. & Exporters & General Jobbers in Hardware & Tools), 45 Chambers
 Sargent & Co. (Mfrs., Jobbers & Exporters of General Hardware, Tools, etc.), 151 Leonard

Shoverling, Daly & Gales (Importers, Exporters & Jobbers, Guns, Sporting Goods, Fishing Tackle, etc.), 302 B'way
 Schuchardt & Schutte (Exporters) (Machine Tools), 136 Liberty
 Sellers, John & Sons (Importers) (Cutlery & Engravers' Materials), 14 Dey
 Shepard, Edw. G. (Mfrs'. Agent) (Builders & General), 107 Chambers
 Sickles & Nutting Co. (Mfrs'. Agents & Jobbers) (General & Heavy), 35 Barclay
 Simmons Hardware Co. (Buying Office for St. Louis, Mo.), 173 Duane
 Spalding, A. G. & Bro. (Mfrs. & Jobbers) (Sporting Goods, Fishing Tackle, etc.), 128 Nassau
 Stevens, Walter B. & Son (Mfrs'. Agents) (Skates & Tools), 114 Chambers
 Striffler, C. & Co. (Carriage & Wagonmakers' Supplies), 674 9th av
 Surpless, Duun & Co. (Mfrs'. Agents & Exporters) (Heavy, Tools, Handles & Specialties), 76 Murray
 Thurnauer, G. M. & Bro. (Jobbers, House Furnishing Goods), 35 Park pl
 Tiebout, W. & J. (Mfrs. & Dealers) (Brass & Galvanized, Ship Chandlery), 118 Chambers
 Topping Bros. (Importers, Exporters, Mfrs'. Agents & Commission) (Heavy & Marine), 122 Chambers
 Tower & Lyon Co. (Tools, Vises, Wrenches, Skates, etc.), 95 Chambers
 Underhill, Clinch & Co. (Jobbers) (Builders', Tools, Shovels, Lawn Mowers, etc.), 94 Chambers
 Voigt, Starr & Co. (Cutlery, Plated Ware, Revolvers, Tools, Vises, Clamps, etc.), 84 Chambers
 Vom Cleff & Co. (Importers German Hardware, Cutlery & Tools), 105 Duane
 Warner & Haviland (Mfrs'. Agents) (Tools, Screws, Files, Wagon & Carriage), 49 Warren
 Welland, Charles (Cultery, Mechanics' Tools, etc.), 149 Chambers
 White, Van Glahu & Co. (General, Builders, Tools, etc.), 15 Chatham sq
 Wiebusch & Hilger (Ltd.) (Importers & Mfrs'. Agents, Hardware Specialties, Anvils, Chains, Cutlery, etc.), 9 Murray
 Witte, Alexls (Mfr. & Exporter) (Razors, Scissors, etc.), 81 Warren
 Witte, Francis T. Hardware Co. (Importers, Exporters & Mfrs'. Agents) (Hardware, Cutlery, Tools, Refrigerators, etc.), 106 Wood, H. P. (Trunk), 20 Reade Chambers
(END OF NEW YORK CITY)

NIAGARA FALLS—Elderfield-Hartshorn Hardware Co.
 Oliver, F. W. Co.
 Watson, Jas. & Son
 OSWEGO—Oswego Hardware Co. (General, Carriage & Heavy)
 PATCHOGUE—Bailey, E. & Sons
 PENN YAN—Hollowell & Wise
 Peck, Geo. W. & Co
 PLATTSBURGH—Henry, Wood & Marshall
 (General & Builders)
 Myers, M. P. & Co. (General)
 ROCHESTER—Bennett & Mason Co. (Stoves, Furnaces & Household Specialties)
 Burke, Wm. B. (Heavy)
 Ernst, Louis & Sons (General, Builders, Tools, etc.)
 Mathews & Boucher (General, Tools, Tinner's, etc.)
 Roby, Sidney B. Co. (Heavy, Iron & Steel, Coach & Bicycle Supplies)
 Weaver, Palmer & Richmond (General, Shelf, Agr'l Impl'ts, etc.)
 ROME—Wardwell Hardware Co. (General, Heavy, Carriage)
 SAUGERTIES—Lamb, Daniel
 SCHNECTADY—Witbeck, Clark (General & Heavy)
 SYRACUSE—Burbans & Black Co. (General, Heavy, Fishing Tackle, etc.)
 Clancy Hardware Co. (Heavy, Carriage, Blacksmiths' Paints, etc.)
 Grant, Alex. Sons (General & Builders)
 Hessler, H. E. Co. (General & Household)
 Kieffer Bros. (General & Household)
 Syracuse Hardware & Iron Co. (General, Heavy, Household, Paints, etc.)
 Wood Glass Co. (Glass, etc.)
 TROY—Bonestell, A. E. (General)
 Green's, Hannibal Son & Co. (Heavy, etc.) (Importers Norway & Swedish Iron)
 McCormick & Dunn (Heavy, Shelf, Builders', Blacksmiths' & Horseshoers' Supplies)
 Manning, Jno. G. & Co. (Saddlery & Supplies)
 Warren, J. M. & Co. (Heavy, Shelf, Tinner's, Metals, Cordage, etc.)

UTICA—Foster, David S. (General, Heavy & Carriage)
 Millar, Charles & Son Co. (Plumbers', Tinn-
 ners' & Steamfitters' Supplies)
 Parry, Wm. B. (General, Household &
 Specialties)
 Roberts Hardware Co. (General, Heavy, Tin-
 ware, etc.)
 Wright-Dana Hardware Co. (General, Heavy,
 etc.)
 WATERTOWN—Conde, W. W. Hardware Co.
 (General, Heavy, Carriage)
 Hunting Co. (Plumbers', Tinn-
 ners', etc.)
 Spratt & Corcoran
 Weeks, John & Son Co. (Plumbers', Tinn-
 ners', etc.)
 WEEDSPORT—Burrett, O. W. & Bro. etc.)

NORTH CAROLINA.

ASHEVILLE—Asheville Hardware Co.
 CHARLOTTE—Allen Hardware Co. (General &
 Heavy)
 Charlotte Hardware Co. (General & Heavy)
 Southern Hardware Co. (General)
 Weddington, J. H. & Co. (General & Heavy)
 ELIZABETH CITY—Jones, D. W. & Co. (Gen-
 eral & Heavy)
 Sharber & White (General, Heavy & Car-
 riage)
 GREENSBORO—Odell Hardware Co. (General,
 Carriage, etc.)
 HICKORY—Martin, J. A. (General)
 MONROE—Heath-Lee Hardware Co. (General,
 etc.)
 RALEIGH—Briggs, Thos. H. & Sons (General,
 Heavy, etc.)
 Hart-Ward Hardware Co. (General & Heavy)
 WASHINGTON—Fulford, N. S. Hardware Co.
 (General, Heavy, Carriage, etc.)
 WILMINGTON—Jacobi, N. Hardware Co. (Gen-
 eral, Heavy, etc.)
 Murchlson, J. W. & Co. (General, Tin, etc.)
 Springer, W. E. & Co. (General, Heavy,
 Carriage, etc.)
 WINSTON SALEM—Brown, Rogers & Co. (Gen-
 eral, Agr'l Impl'ts, etc.)

NORTH DAKOTA.

FARGO—Hall-Robertson Hardware Co. (General,
 Cutlery, etc.)

OHIO.

AKRON—Hardware & Supply Co. (General,
 Cutlery, Steamfitters', Factory, etc.)
 Kempel, G. A. & Co. (Heavy & Carriage)
 Rohrbacher & Allen (General, Plumbers' &
 Steamfitters', Factory, etc.)
 CANTON—Canton Hardware Co. (General, Fac-
 tory Supplies, Glass, Paints, etc.)
 CHILLICOTHE—Spetnagel Hardware Co. (Gen-
 eral & Heavy)
 CINCINNATI—Boebinger Hardware Co. (Gen-
 eral, Cutlery, Tools, Patternmakers' Sup-
 plies, etc.), 315 E Pearl
 Carpenter, D. L. & Co. (Carriage & Wagon-
 makers' Hardware & Supplies), 652 Main
 Cincinnati Tin & Japan Co. (Tin Plate,
 Metals, Tinn-ers' Supplies, etc.), Sycamore
 & Canal
 De Vou, V. N. & Co. (General, Factory,
 etc.), 506 Central av
 Huenefeld, E. H. (Tin Plate, Metals, etc.),
 226 E 9th
 Johnson Bros. Hardware Co. (General, Tools,
 Cutlery, Tinware, etc.), 16 W 2d
 Kruse Hardware Co. (General, Cutlery, etc.),
 25 E Pearl
 Kruse & Bahlmann Hardware Co. (General,
 Builders', etc.), 410 Pioneer
 Kuhlmann Hardware Co. (General, Builders',
 Cabinet, Tools, etc.), 1320 Main
 Lawson, F. H. Co. (Tin Plate & Tinn-ers'
 Supplies), 437 Main
 Morris, E. K. & Co. (Heavy), 317 W 2d
 Pickering Hardware Co. (General), 5th c
 Main
 Schulte, G. B. & Sons Co. (Wagonmakers' &
 Blacksmiths' Hardware & Supplies), 716
 Main
 CLEVELAND—Bingham, W. Co. (Heavy, Shelf,
 Cutlery, Firearms, Mfrs'. Mining, Railway
 Supplies, etc.), 1433 W 9th
 Brassington, Frank & Co. (Carriage), 656
 Bolivar rd
 Gray Bros. (Carriage), 1244 W 9th
 Glessen, D. E. & Co. (Cabinet), 215 Prospect
 av
 Lake Erle Nall & Supply Co., 412 Frankfort
 av
 Lockwood-Taylor Hardware Co. (General,
 Heavy, Cutlery, Tin Plate, Tools, Saddlery,
 etc.), 1385 W 9th

Luethermyer, H. W. & Sons (General, Build-
 ers', Carriage, Furniture, etc.), 425
 Superior av
 McIntosh Hardware Corp. (General, Heavy,
 Tinn-ers', Mfrs'. & Mill Supplies, etc.),
 725 Superior av
 Morton-Petitt Co., 3951 St. Clair av
 Worthington, Geo. Co. (Heavy, Metals, Tin-
 ners', Carriage & Saddlery, etc.), 814 St.
 Clair av
 COLUMBUS—Columbus Hardware Co. (General)
 Griswold, Sohl Co. (Carriage & Heavy)
 Mithoff, H. & Co. (Heavy, Tin Plate, Tin-
 ners' Stock, Tools, etc.), 284 High
 Smith Bros. Hardware Co. (General, Cutlery,
 Paints, etc.)

COSHOCTON—Gray Hardware Co.
 Ricketts, B. W.
 DAYTON—Gebhart, S. T. & J. A. (General,
 Carriage-makers' & Blacksmiths' Supplies)
 Kramer, Viot & Co. (General, Shelf & Build-
 ers')
 Tischer & Reisinger (General, Cutlery, Nails,
 etc.)
 FINDLAY—Thomas & Thomas
 Wyssbrod, E. V. & Co. (Oil Well Supplies)
 GALLIPOLIS—Kerr, J. M. & Co.
 Hutchinson, W. H.
 IRONTON—Goldcamp Bros. & Co.
 Hutsiniller-Sheridan (General)
 LANCASTER—Winter, Frank Hardware Co.
 (General, Heavy & Carriage)
 MANSFIELD—Bare Bros.-Martin Hardware Co.
 Colwell Hardware Co.
 Wagner Hardware Co. (General & Heavy)
 MARIETTA—Seyler, J. & Bro.
 NEWARK—Crane-Bills Hardware Co.
 Jones, Daniel L. & Co.
 Jones, Jno. C.
 PLYMOUTH—Root Bros. Co.
 PORTSMOUTH—Hibbs, J. C. Hardware Co.
 (General)
 SANDUSKY—Donahue Hardware Co.
 SPRINGFIELD—Hancke, J. Geo. Co.
 Lion Hardware Co.
 Springfield Hardware Co. (General)
 TIFFIN—Creager, L. D.
 Crobaugh & Dahn Hardware Co. (General &
 Carriage)

TOLEDO—Bostwick-Braun Co. (General &
 Heavy)
 Co-Operating Merchants' Co. (General, Agr'l
 Impl'ts, etc.)
 Heavy Hardware Co. (Carriage, etc.)
 Schunk-Marquardt Co. (General & Paints)
 Star Hardware Co. (Builders', Cabinet, Tools'
 Cutlery, Glass, etc.)
 Stollberg Hardware Co. (General, Tools,
 Cutlery, Glass, Paints, etc.)
 TROY—Coles, Schaible & Smith
 URBANA—Cooper, Otway (General, Saddlery,
 etc.)
 WARREN—Park Hardware Co.
 Warren Hardware Co.
 WASHINGTON C. H.—Ballard, C. F. (General
 Ford Hardware Co. & Heavy)
 YOUNGSTOWN—Morris Hardware Co. (General,
 Railway, etc.)
 Stambaugh, Thompson Co. (General, Heavy,
 Plumbers', etc.)
 Wilkins-Leonard Hardware Co. (General,
 Household, Mill Supplies, etc.)
 ZANESVILLE—Clossman Hardware Co.
 Young Hardware Co. (General)
 McCormick, Geo. W.

OKLAHOMA TERRITORY.

EL RENO—Bonebrake Hardware & Implement
 Co.
 ENID—Gensman Bros.
 GUTHRIE—Hirschel & Knebel Co. (General &
 Heavy)
 MORRIS, F. L.
 KINGFISHER—Hockaday, E. & Co.
 OKLAHOMA—Oklahoma City Hardware Co.
 (General, Heavy, etc.)
 Pettee, W. J. & Co. (General, Agr'l Impl'ts,
 etc.)
 SHAWNEE—Wade-Branch Hardware Co.

OREGON.

PORTLAND—Atkins, E. C. & Co. (Saws, Tools,
 etc.)
 Avery & Co. (General, Tools, Cutlery, etc.)
 Corbett, Failing & Robertson (General,
 Heavy, etc.)
 Dayton Hardware Co. (General, Electrical,
 Upholsterers', etc.)
 Haseltine, J. E. & Co. (Carriage, Heavy,
 etc.)
 Hexter, May & Co. (General, Tinware, etc.)
 Hicks, S. B. & Sons Co. (Loggers' Supplies)
 Honeyman Hardware Co. (General, Heavy,
 etc.)

Marshall-Wells Hardware Co. (General,
 Heavy, etc.)
 Robertson - Manning Co. (Blacksmiths',
 Wagonmakers', etc.)
 Simonds Mfg. Co. (Cutlery, Saws, etc.)

PENNSYLVANIA.

ALLEGHENY—Lautner Hardware Co. (General,
 Blacksmiths' & Wagonmakers')
 Taylor Hardware Co. (General)
 ALLENTOWN—Berger, Giose & Co.
 Ebbecke Hardware Co.
 Grammes, L. F. & Sons (Cabinet, Desk, Ma-
 chinery, etc.)
 Hersch, F. Hardware Co. (General, Heavy,
 Builders', Carriage, etc.)
 Schelly, C. Y. & Bro. (General, Builders',
 etc.)
 Young, M. S. & Co. (General, Builders',
 Blacksmiths', etc.)
 ALTOONA—Goodfellow, W. H. & Son (General,
 Agr'l Impl'ts, etc.)
 Standard Supply & Equipment Co. (Tools,
 etc.)
 ASHLAND—Buck, P. E. & Sons (General,
 Heavy, Carriage, etc.)
 BELLEFONTE—Potter-Hoy Hardware Co.
 (General, Heavy, Carriage, etc.)
 BRADFORD—Emery, L., Jr., & Co. (General,
 Heavy, etc.)
 BUTLER—Campbell, J. G. & W.
 CHICORA—Hays, E. F. & Sons
 Hoch Bros.
 CLARION—Magee, Jno. A. & Son
 CONNELLSVILLE—Frisbee Hardware Co.
 CORRY—Barlow Hardware Co. (General, Heavy,
 Blacksmiths', etc.)
 DANVILLE—Welliver Hardware Co. (General,
 Heavy, etc.)
 DUBOIS—Hibner & Hoover (General, Builders',
 Piothero, Frank W. etc.)
 EASTON—Miller, T. T. Hardware Co. (General,
 Heavy, etc.)
 EMLENTON—Mitchell, H. B. & Co.
 ERIE—Mehl & Sapper
 Schneider, Leonard
 GREENVILLE—Packard Hardware Co. (Gen-
 eral, Heavy, etc.)
 HANOVER—Shirk, Samuel & Sons (General,
 Heavy, Carriage, etc.)
 Tanger, J. C. & Co.
 HARRISBURG—Gilbert, H. & Son (General &
 Heavy)
 Strayer, O. F. (General & Heavy)
 HAZLETON—Barber, J. F. & Co. (Tin, Wood-
 enware, Stoves, etc.)
 Bright, J. C. & Co. (General, etc.)
 Hazleton Machinery & Supply Co. (Heavy,
 etc.)
 HUNTINGDON—Miller, C. H. Hardware Co.
 (General, Pipe, etc.)
 INDIANA—Stewart, Jas. M. & Co.
 JOHNSTOWN—Swank Hardware Co. (General,
 Builders', Carriage, etc.)
 KINGSTON—Roat, A. J. (General, Heavy, Car-
 riage, etc.)
 LANCASTER—Herr & Snaveley
 Reilly Bros. & Raub (General)
 Steinman Hardware Co. (General, Heavy,
 Carriage, etc.)
 LEBANON—Krause, Geo. Hardware Co. (Gen-
 eral, Heavy, etc.)
 LEHIGHTON—Sendel & Ronse
 LEWISBURG—Driesbach's, O. Sons (General,
 Saddlery, etc.)
 McKEESPORT—Hartman Hardware Co.
 MAHAFFEY—Wrigley Hardware Co.
 MAHANOEY CITY—Heiser, H. J. & Co.
 MECHANSBURG—Hauck Bros.
 MEYERSDALE—Cover, Peter J. & Son
 Shipley Hardware Co.
 MIFFLIN—Guss & Sieber
 MIFFLINBURG—Snodgrass, S. W. (General,
 Carriage, etc.)
 MIFFLINTOWN—McClintic, Kirk H.
 MOUNT CARMEL—Beddall & Wardrop
 MOUNT PLEASANT—Stevenson, J. A. & Co.
 NEW CASTLE—Smith-Hutton-Kirk Co.
 PHILADELPHIA—Allen, W. H. & G W. (Gen-
 eral, Builders', Cutlery, etc.), 113 Market
 Biddle Hardware Co. (General, Tools, Spe-
 cialties, etc.) 513 Commerce
 Fernley, T. Jas. (General), 505 Commerce
 Field's, Chas. J. Sons, General, Cutlery,
 etc.) 633 Market
 Ghiskey's, Chas. M. Sons (General, Me-
 chanics' Tools & Specialties), 508 Com-
 merce
 Gilbert, T. W. & Co. (Carriage), 108 N 3d
 Gummey, McFarland & Co. (Metals, Tin &
 Terne Plate, etc.), 147 N 10th
 Hall & Carpenter (Metals, Tin Plate, etc.),
 518 Race

SOUTH CAROLINA.

Hessenbruch, T. & Co. (Importers & Jobbers German Hardware), 8 N 5th
Matlack, E. C. & Co. (Carriage), 122 N 3d
Matlack, Kern & Co. (General), 203 Market
Merchant & Evans Co. (Importers, Exporters, Mfrs. & Jobbers in Tin & Terne Plate, Brass & Copper Goods, Galvanized Sheet Iron, Zinc, Wire, etc.), 517 Arch
Newlin-Knight Hardware Co. (General, Cutlery, Railway Supplies, etc.), 337 Market
Noblit Bros. & Co. (Cabinet), 222 S 2d
Petty, N. A. (Mfrs'. Agent), 422 Commerce
Potts, W. F. Son & Co. (Tin Plate, Metals, etc.), 1224 Cherry
Riter Bros. & Co. (Tin Plate, etc.), 1022 Race
Rogers & Miller (General), 135 Market
Sanson & Rowland (Mfrs'. Agents), 511 Commerce
Seltzer-Klahr Hardware Co. (General, Cutlery, Farm & Garden Tools, etc.), 535 Market

Shannon, J. B. & Sons, 816 Chestnut
Shannon, J. J. & Co., 1744 Market
Shields & Bro. (General, Heavy, etc.), 521 Market

Supplee Hardware Co. (Shelf, Heavy, Cutlery, Lawn Mowers, etc.), 503 Market
Vance, Jas. M. & Co. (General, Builders', Cutlery, etc.), 211 Market
Watson, E. H. & Co. (Mfrs'. Agents & Importers), 12 N 5th

PITTSBURG—Bindley Hardware Co. (General, Heavy, Cutlery, Household, Tools, Paints, Glass, etc.), 429 7th av

Demmler Bros. (Tin Plate, Enameledware, Household, etc.), 526 Smithfield
Glockler, Bernard (Butchers' Tools & Supplies), 1127 Penn av

Lindsay, Jas. C. Hardware Co. (General, Cutlery, Firearms, etc.), 719 Liberty av
Logan-Gregg Hardware Co. (General, Heavy, Oil & Gas Stoves, etc.), 125 7th
Wolf-Lane Hardware Co. (General), 304 Wood
Woodwell, Jos. & Co. (General, Builders' & Mill Supplies), 211 Wood

POTTSTOWN—Fegely, J. & Son (General, Heavy, etc.)

POTTSVILLE—Bright & Co. (General, Mining, etc.)

Thompson, L. C. (General, Heavy, Carriage, etc.)

READING—Bard Hardware Co. (General, Heavy, Carriage, etc.)

Bright & Co. (General, etc.)
Hoff Bros. (General, Firearms, etc.)
Obold, J. H. & Co. (General)

Stitcher Hardware Co. (Ltd.) (General, Heavy, Carriage, etc.)

SCOTTDAL—Loucks Hardware Co.

SCRANTON—Bittenbender & Co. (Heavy & Carriage)
Doyle, Jas. B. & Co.
Foote & Shear Co. (General)
Gunster Bros.
Leonard, Thos. F.

SHAMOKIN—Hack Sanner Hardware Co.
SHARON—Fruit, Ohl Co. (General, Heavy, etc.)
SOMERSET—Holderbaum, James B. & Son
Schell Hardware Co.

TAMAQUA—Seligman & Co. (General)
TITUSVILLE—Kernochan & Co.
United Hardware & Supply Co.

UNIONTOWN—Huston, Jno. L.
WARREN—Pickett Hardware Co.

WILKES-BARRE—Baab, Frank
Morgan's, C. Sons (General, Tools, etc.)
Penna Supply Co. (General, Heavy, etc.)
Phelps-Lewis-Bennett Co. (General, Heavy, White Hardware Co. etc.)

WILKES-BARRE Hardware Co. (General, Tinware, etc.)
WILLIAMSPORT—Kline & Co. (General, Williamsport Hardware & Stove Co.)

YORK—Frey & Thomas (General)
McClellan & Gotwalt Co. (General)
Small, P. A. & S. (General, Blacksmiths', etc.)

RHODE ISLAND.

PROVIDENCE—Ballou, Johnson & Nichols (House Furnishings & Woodenware)
Barker, Chadsey & Co. (General)
Belcher & Loomis Hardware Co. (General, Manufacturing Jewelers' & Electrical Supplies, etc.)

Church, E. C. Co. (Carriage, etc.)
Congdon & Carpenter Co. (Carriage, Saddlery, etc.)

Congdon, Welcome & Sons (General, Builders', Cordage, etc.)
Union Hardware & Electrical Supply Co. (General, Electrical, Jewelers' Supplies, Paints, etc.)

WOONSOCKET—Darling, Chas. H.

ANDERSON—Anderson Hardware Co.
Sullivan Hardware Co. (General & Heavy)
CHARLESTON—Coleman-Wagener Hardware Co. (General)
Franke, C. D. & Co. (Carriage & Wagon)
Marshall, Westcoat & Co. (General)
Miler Hardware Co. (General)
Shepherd Supply Co. (Mfrs'. Agents) (Tin, Stoves, etc.)

COLUMBIA—Lorick & Lowrence (General, Heavy, etc.)

DARLINGTON—Welling & Bennoit
GREENVILLE—Markley Hardware & Mfg. Co. (General, Carriage, etc.)

Wilkins, Poe & Co. (General & Heavy)
Williams, Jas. T.

SPARTANBURG—Ezell, S. B.
Montgomery & Crawford (General)

SOUTH DAKOTA.

ABERDEEN—Jackson Hardware Co. (General & Heavy)
HURLEY—Almond Hardware Co. (General & Heavy)

RAPID CITY—Sweeney Hardware Co. (General)
SIOUX FALLS—Sioux Falls Hardware Co. (General)

TENNESSEE.

BRISTOL—Mitchell-Powers Hardware Co. (General & Heavy)
Virginia-Tennessee Hardware Co. (General & Heavy)

CHATTANOOGA—Fritts, Tom Hardware Co. (General, Plumbers', etc.)

Green, W. T. (General, Cutlery, etc.)
Hall-Melton Hardware Co. (General)
James Supply Co. (Heavy)
Magill Hardware Co. (General & Heavy)
Vance, John C. (General)

Woodworth, F. H. & Co. (General)
CLARKSVILLE—Elder-Conroy Hardware Co.
CLINTON—Clinton Hardware Co.

JACKSON—Anderson, G. C. (General)
JOHNSON CITY—Summers-Parrott Hardware Co. (General)

KNOXVILLE—Luttrell, S. B. & Co. (General, Heavy, etc.)

McClung, C. M. & Co. (General, Heavy, Tools, etc.)
McClung, Buffat & Buckwell (Tools, etc.)
Woodruff Hardware Co. (Heavy, Shelf, etc.)

MEMPHIS—Benedict, Warren & Davidson Co. (General, Tinware, etc.)

Craig, R. G. & Co. (General)
Harris Iron & Supply Co. (Carriage, etc.)
Livermore Foundry & Machine Co. (Heavy)

Manogue-Pidgeon Iron Co. (Heavy)
Orgill Bros. & Co. (General, Agr'l Impl'ts, etc.)
Stewart-Reder Hardware Co. (General)

Thomas, Barnes & Miller (General)
MORRISTOWN—Baylor, C. E. & Co. (General & Heavy)
Grant Hardware Co. (General)

NASHVILLE—Buford Bros. (Heavy, Carriage, etc.)

Fall, J. H. & Co. (General, Heavy, Builders', etc.)

Gray & Dudley Hardware Co. (General, Heavy, etc.)

Hitchcock, L. H. & Son (General, Agr'l Impl'ts, etc.)

Keith, Simmons & Co. (General, Heavy, etc.)
Lipscomb, H. G. & Co. (Shelf, Wagon, Builders', etc.)

TEXAS.

ABILENE—Hughes, Edw. S. & Co. (General & Heavy)

AMARILLO—Morrow-Thomas Hardware Co. (General)
AUSTIN—Richardson, W. H. (General)
Tipps, Walter A. (General, Heavy, Carriage, Saddlery, etc.)

Webb, Taylor & Perry (General, Carriage, etc.)

BEAUMONT—Wilson, E. L. Hardware Co. (General, Heavy, etc.)
BROWNWOOD—Jackson-Hughes Co. (General, Saddlery, etc.)

Weakley Hardware Co. (General)
DALLAS—Huey & Phillip Hardware Co. (General, Thinners', etc.)
Moroney Hardware Co. (General)

Thornhill, H. W. & Co. (General)
DENISON—Hall-Leeper Hardware Co.

EL PASO—Krakauer, Zork & Moye (General, Firearms, etc.)

FORT WORTH—Henry, Wm. & Co. (General & Heavy)
Nash Hardware Co. (General, Heavy, etc.)

GAINESVILLE—Stevens-Kennerly & Spragins Co.

GALVESTON—Blum Hardware Co. (General)
Brown, J. S. Hardware Co. (General, Saddlery, etc.)

HENDERSON—Burnett-Lacy Hardware Co.
HOUSTON—Berling-Cortes Hardware Co. (General)
Berling, C. L. & Theo., Jr. (General)

Heitmann, F. W. & Co. (Heavy)
Meyer, Jos. F. Co. (Heavy & Carriage)
Peden Iron & Steel Co. (Heavy & Tinware, etc.)

JEFFERSON—Meyer, Eugene (General)
Torrens Mfg. Co.

LAREDO—Deutz Bros. (General & Heavy)
PARIS—Bettes, H. S. Hardware Co. (General)
Blakeney-Brooks Hardware Co. (General)

ROCKDALE—Henne & Meyer Co.
SAN ANTONIO—Basse, Wm. Hardware Co. (Carriage, Wagon & Heavy)

Bond Hardware Co. (General, Heavy, etc.)
Heusinger Hardware Co. (Heavy, Builders', Cabinet, Tools, etc.)

Newton, Welier & Wagner Co. (Household, Cutlery, etc.)

Schultz Stove & Hardware Co.
Tips Hardware Co. (General)

SHERMAN—Roberts, Sanford & Taylor Co. (General)
Walsh Hardware Co.

TEXARKANA—Chatfield & Buhrman
Hoffman Hardware Co.
Texarkana Hardware Co.

TYLER—Adams, Jno. R. Hardware Co. (General, Heavy, etc.)

WACO—McLendon, Duncan & Co. (General, Heavy, etc.)
Padgett, Tom Co. (Saddlery, etc.)
Straus, Ed. (General, Cutlery, etc.)

WEATHERFORD—Bell, R. E. Hardware Co. (General)
Lowe Carter Hardware Co. (General, etc.)

UTAH.

OGDEN—Consolidated Wagon & Machine Co. *
Lowe, Geo. A. Co. (Heavy)

SALT LAKE CITY—Salt Lake Hardware Co. (General, Heavy, etc.)
Strevell-Patterson Hardware Co. (General, Heavy, etc.)

Zion's Co-operative Mercantile Institution (General, Heavy, etc.)

VERMONT.

BURLINGTON—Hager Bros.
Holton Hardware Co. (General & Saddlery)
Manson, Jno. A. & Co.
Strong Hardware Co. (Heavy, Builders', Carriage, etc.)

MONTPELIER—Barrows & Peck
Peck Bros.

NEWPORT—Root, Hy. S. & Son
True & Blanchard

RUTLAND—Landon, W. O. & Co.
ST. ALBANS—Clark & Hatch
Folsom, H. G. & Co.

VIRGINIA.

ALEXANDRIA—Carlin's, Jas. F. Son & Co.
BRISTOL—(See Tennessee)

CHARLOTTESVILLE—Walker-Carroll-Adams
Hardware Co. (General, Cutlery, Heavy, etc.)
Wood, J. Edwin Co.

CLIFTON FORGE—Smith, W. K. Hardware Co. (General, Builders', Tools, etc.)

DANVILLE—Hodnett, Vass, Watson Co.
Piedmont Hardware Co. (General, etc.)

HAMPTON—Booker, H. R. & Co.
Sclater, Jas., Jr.

HARRISONBURG—Wilton, Joshua & Sons
LYNCHBURG—Ainslie & Martin (General)
Bailey, Spencer Hardware Co. (Heavy, Shelf, Firearms, etc.)

Barker-Jennings Hardware Co. (Heavy, Shelf, Firearms, etc.)
Gannaway, Jno. E. & Co. (General)
Perrow, Evans & Co. (General)

MANCHESTER—Vaden, Bernard P.
NORFOLK—Clark, Frank T. Co. (General)
Howard, Paul R. Hardware Co. (General, Tin, Cordage, etc.)

Levy, M. & Co. (General, etc.)
Lumley-Dodson Co. (General, Heavy, etc.)
Mayer & Co. (Railway, Steamboat & Mill)

Walke, Henry Co. (Railway, Ship Chandlery, etc.)
Watters & Martin (General, Heavy, etc.)
Westbrook, Jno. D. (Heavy, Bolders, etc.)

White Hardware Co. (General)
Womble's, J. G. Sons (General)

NORTON—Norton Hardware Co. (General)
PETERSBURG—Leonard, Chas. (General)
Stockell-Myers Hardware Co. (Heavy)

Stratton-Bragg Co. (General)

PORTSMOUTH—Neville & Grubb (General, Salomon, Moses Heavy, Ship Chandlery)
 RICHMOND—Baldwin & Brown
 Clarke, A. B. & Son Hardware Co. (General, Heavy, Carriage, etc.)
 Donnan, W. S. Hardware Co. (Heavy)
 McGraw, James (General, Machinists' Supplies)
 Richmond Hardware Co. (General, Tinware, etc.)
 Virginia-Carolina Hardware Co. (General, Tinware, etc.)
 Watkins-Cottrell Hardware Co. (General, Heavy, Saddlery, etc.)
 ROANOKE—Nelson Hardware Co. (General, Miners' Supplies, etc.)
 Roanoke Hardware Co. (General, etc.)
 SOUTH BOSTON—Penick, R. A. & Son (General)
 STAUNTON—Bowman, C. P. & Bro. (General, Saddlery, etc.)
 Worthington Hardware Co. (General, Heavy, Carriage, Saddlery, etc.)
 SUFFOLK—Folk, E. L. & Co.
 Norfleet & Bro.
 TAZEWEEL—Greever, J. A. & Co.
 Peery & St. Clair

WASHINGTON.

BELLINGHAM—Morse Hardware Co. (General)
 Northwest Hardware Co. (General & Heavy)
 EVERETT—Agnew Hardware Co.
 SEATTLE—Gray Bros. (Carriage, Wagon, etc.)
 Hambach, A. Co. (Sheet Metals, Plumbers' Supplies, etc.)
 Hicks, S. B. & Sons Co. (Heavy, etc.)
 Pacific Hardware & S. Co. (Branch San Francisco)
 Schwabacher Hardware Co. (Heavy, Shelf, Ship Chandlery, etc.)
 Seattle Hardware Co. (Heavy, Shelf, Tools, etc.)
 Whiton Hardware Co. (General, Cutlery, Tools, etc.)
 SPOKANE—Holley-Mason Hardware Co. (Shelf, Heavy, Plumbers', etc.)
 Jensen-King-Byrd Co. (General)
 Spokane Hardware Co. (General)
 TACOMA—Horst Bros.
 Hunt & Mottet Co. (General & Heavy)
 Washington Hardware Co.
 WALLA WALLA—Drumheller Co.
 Mohr, Henry (General)

WEST VIRGINIA.

BLUEFIELD—Bluefield Hardware Co. (General, Tinware, etc.)
 CHARLESTON—Burlew, N. S. (General)
 Charleston Hardware Co. (General)
 Goshorn & Co. (General)
 Loewenstein & Sons (General)
 CLARKSBURG—Williams & Davidson Hardware Co. (General, Heavy, Carriage)
 FAIRMONT—Amos, Geo. E. & Co.
 Jacob & Hutchinson Hardware Co. (General, Tinware, etc.)
 HINTON—Hinton Hardware Co.
 HUNTINGTON—Emmons, Hawkins Hardware Co. (General, Natural Gas Fixtures, etc.)
 Foster Hardware Co. (General, etc.)
 Miller Supply Co. (Heavy, Mine & Mill Supplies)
 KEYSER—Stever Hardware Co. (General)
 PARKERSBURG—Chancellor Hardware Co.
 Neal, R. L. & Co. (General) (General)
 Niswander, G. W. Co.
 Smith, W. H. Hardware Co. (General)
 RAVENSWOOD—McIntosh, John A. & Son (General & Heavy)
 Moore, C. P. (General)
 SUTTON—Lee, W. H.
 WHEELING—Greer & Laing (General & Heavy)
 Hiener Hardware Co.
 Miller & Stein (Heavy, Carriage, etc.)
 Ott-Heiskell Hardware Co. (General, Cutlery, etc.)
 Snyder's, Jacob Sons (Carriage, Wagon, Blacksmith's, etc.)

WISCONSIN.

APPLETON—Galpin's, Alfred Sons
 Schlafer Hardware Co.
 Tesch, Wm.
 ASHLAND—Garnich, Emil & Sons
 BURLINGTON—Reineman, Wm. F. (General, Builders', etc.)
 EAU CLAIRE—Brooks, S. C. (Est. of)
 Foss-Armstrong Co. (General, Heavy, Tools, Builders', etc.)

FOND DU LAC—Hughes, Jno.
 Wegner, J. F. & Co.
 GREEN BAY—Findelsen Bros.
 Gottfredson Bros. Hardware Co.
 Kimball, Alonzo
 Morley-Murphy Hardware Co. (General, Cutlery, etc.)
 HUDSON—Foss-Armstrong Hardware Co. (General)
 JANESVILLE—Bickenn Hardware Co. (Heavy)
 Sheldon Hardware Co.
 KENOSHA—Dewey, C. A.
 LA CROSSE—Kroner, Adam
 Kroner, Fred Hardware Co. (General, Wagon, Tools, etc.)
 Tausche, Vincent Hardware Co. (General, Blacksmiths', etc.)
 MADISON—Kronkcke Bros.
 Smmer & Morris
 Wiedenbeck, Dobelin & Co. (Blacksmiths', etc.)
 MANITOWOC—Teitgen, Emil
 Worel, Zeman & Stangel Co. (General, Heavy, Carriage, etc.)
 MARSHFIELD—Kliner, Lang & Scharmann Co.
 MILWAUKEE—Frankfurth, Wm. Hardware Co. (General, Heavy, Cutlery, Firearms, etc.)
 119 W Water
 Gross, Philip Hardware Co., 126 Grand av
 Hilgendorf, Kollog & Co., 303 3d
 Pritzlaff, John Hardware Co. (General, Heavy, Tin Plate, Cutlery, etc.), 41 W Water
 Shadbolt & Boyd Iron Co. (Heavy, Iron & Steel), 129 W Water
 Suelldohn & Seefeld (Heavy, Carriage, etc.), 45 2d
 NEENAH—Krueger, Wm. & Co.
 OSHKOSH—Leach, Frank Hardware Co.
 RACINE—Adams, E. B. & Son (Specialties)
 Hoernel Hardware Co.
 Murphy, James
 SHEBOYGAN—Geele, Frank Hardware Co.
 SUPERIOR—Superior Hardware Co.
 WATERTOWN—Kusel, D. & F. Co.
 WAUSAU—Baumann, Richard H.
 Montgomery Hardware Co.

WYOMING.

CHEYENNE—Arp & Hammond Hardware Co.
 Rodel, Frank A.
 EVANSTON—Beeman & Cashin Mercantile Co.
 LANDER—Rhein, W. H. & Co.
 LARAMIE—Holliday, W. H. Co.
 SHERIDAN—Diefenderfer & Dinwiddie

Harness (Contractors')

Columbus Carriage & Harness Co., Columbus, O.
 Hayden, P. Saddlery Hardware Co. (Scraper & Railroad & Supplies), Columbus, O.
 Meyer, Bannerman & Co. (Harness & Supplies), 618 N 6th, St. Louis, Mo.
 Sickles, J. B. Saddlery Co. (Harness & Supplies), 21st & Washington av, St. Louis, Mo.

Harpoons

Falls Mfg. Co. (Improved "C. V."), San Francisco, Cal.
 Wilcox, Crittenden & Co., Middletown, Conn.

Harps (Trolley)

(See Trolley Line Materials)

Harrow Teeth Mfrs.

Babcock Mfg. Co., Leonardsville, N. Y.
 Cambria Steel Co., Gautier Dept., Johnstown, Pa., & Arcade bldg, Phila., Pa.
 Fuller & Johnson Mfg. Co., Madison, Wis.
 Harrow Spring Co. (Spring), Kalamazoo, Mich.
 Hench & Dromgold Co., Inc., York, Pa.
 Herschel, R. Mfg. Co., Peoria, Ill.
 Inland Steel Co. (Steel), First National Bank bldg, Chicago, Ill.
 Lanz, M. & Sons, 101 S 29th, Pittsburg, Pa.
 Mason, F. C. & Co. (Spring, Spike), St. Johns, Mich.
 Munsville Plow Co., Munsville, N. Y.
 Old Dominion Iron & Nail Works Co., Richmond, Va.
 Parlin & Orendorff Co., Canton, Ill.
 Sweet's Steel Co. (Solid Steel), Williamsport, Pa.
 White, S. R. & Bro., Norfolk, Va.

Harrows (Disc)

Adriance, Platt & Co. ("New York"), Poughkeepsie, N. Y.
 American Harrow Co., Detroit, Mich.

American Seeding Machine Co. (Gang & on Wheels, also Truck), Main Office, Springfield, Ohio.
 Arnes Plow Co., Quincy Hall, Boston.
 Avery, B. F. & Sons, Louisville, Ky.
 Bement's, E. Sons, Lansing, Mich.
 Benica Agricultural Works, Benica, Cal.
 Bradley, David Mfg. Co., Bradley, Ill.
 Bristol & Gale Co., 110 Washington Boul., Chicago, Ill.
 Brown, Geo. W. & Co., Galesburg, Ill.
 Bucher & Gibbs Plow Co. (also Cut Out Disc), Buffalo Pitts. Co., Buffalo, N. Y.
 Case, J. I., Plow Works (Racine), Racine, Wis.
 Chapinville Wheel Co. (New York), Poughkeepsie, N. Y.
 Cutaway Harrow Co. ("Clark's Cutaway"), Higganum, Conn.
 Daley, M. H., Charles City, Ia.
 Deere & Mansur Co., Moline, Ill.
 Deucher, H. P. Co., Hamilton, O.
 Emerson Mfg. Co. (Emerson, Sandow), Rockford, Ill.
 Fountain City Drill Co., La Crosse, Wis.
 Fuller & Johnson Mfg. Co., Madison, Wis.
 Gale Mfg. Co. (One or Two Lever, also Cutaway), Albion, Mich.
 Galesburg Cculter-Disc. Co. ("Brown"), Galesburg, Ill.
 Grand Detour Plow Co., Dixon, Ill.
 Haish Mfg. Co., De Kalb, Ill.
 International Harvester Co. of America (Cutaway, Reversible, Vineyard), 7 Monroe, Chicago, Ill.
 Osborne Plant, Auburn, N. Y.
 Janesville Machine Co. (Budlong), Janesville, Wis.
 Johnston Harvester Co., Batavia, N. Y.
 Keystone Mfg. Co., Sterling, Ill.
 Kingman & Co., Peoria, Ill.
 La Crosse Plow Co. (Bulldog), La Crosse, Wis.
 Lean, Roderick Mfg. Co., Mansfield, O.
 Lehr Agricultural Co., Fremont, O.
 Long & Allstater Co. ("Hamilton"), Hamilton, O.
 Luthy & Co., Peoria, Ill.
 McSherry Mfg. Co., Middletown, O.
 Mast, P. P. & Co., Springfield, Ohio.
 Moline Plow Co. (Cutaway & Reversible), Moline, Ill.
 Monmouth Plow Co., Monmouth, Ill.
 Morrison Mfg. Co., Fort Madison, Ia.
 Ohio Cultivator Co., Bellevue, O.
 Ohio Rake Co., Dayton, O.
 Parlin & Orendorff Co. (Canton), Canton, Ill.
 Patten, Frank C. Co., Sycamore, Ill.
 Patten & Stafford Co. ("New York Champion"), Canastota, N. Y.
 Pekin Plow Co., Pekin, Ill.
 Peru Plow & Wheel Co., Peru, Ill.
 Racine-Sattley Co., Springfield, Ill.
 Rock Island Plow Co. (with Drilling Seeder Attachment), Rock Island, Ill.
 Rockford Mfg. Co. ("Rockford"), Rockford, Ill.
 St. Joseph Plow Co., St. Joseph, Mo.
 Haw, H. C. Co. ("Stockton," Reversible), Stockton, Cal.
 Sears, Albert H. & Co., Plan, Ill.
 Standard Harrow Co. (Model), Utica, N. Y.
 Sterling Mfg. Co., Sterling, Ill.
 Sucker State Drill Co., Belleville, Ill.
 Sulky Disc Harrow Mfg. Co., Madison, Wis.
 Syracuse Chilled Plow Co. (Steel Frame), Syracuse, N. Y.
 Thomas Mfg. Co., Springfield, O.
 Thompson, J. & Sons Mfg. Co., Beloit, Wis.
 Toledo Plow Co., Toledo, O.
 Wlard Plow Co., Batavia, N. Y.

Harrows (Spading)

Bement's, E. Sons (Morgan), Lansing, Mich.
 Bucher & Gibbs Plow Co. (Imperial), Canton, O.
 Chapinville Wheel Co. (New Yorker), Poughkeepsie, N. Y.
 Deere & Mansur Co., Moline, Ill.
 Janesville Machine Co. (Budlong), Janesville, Wis.
 Parlin & Orendorff Co. (Canton), Canton, Ill.
 Wiard Plow Co. (Morgan), Batavia, N. Y.

Harrows (Spring Tooth)

Adriance, Platt & Co. (Wheel & Wheel Riding), Poughkeepsie, N. Y.
 Albridght, James H. & Sons, Mifflinburg, Pa.
 Allen, S. L. & Co., Philadelphia, Pa.
 American Harrow Co., Detroit, Mich.
 American Seeding Machine Co., Main office, Springfield, O. Works: Louisville, Ky.
 Babcock Mfg. Co., Leonardsville, N. Y.
 Belcher & Taylor Agricultural Tool Co., Chicopee Falls, Mass.
 Bement's, E. Sons, Lansing, Mich.
 Bucher & Gibbs Plow Co., Canton, O.
 Buffalo Pitts. Co., Buffalo, N. Y.
 Davison Harrow Co., Utica, N. Y.

Donaldson Bros., Mt. Clemens, Mich.
 Empire Plow Co., Ensley, Ala., & Cleveland, O.
 Farquhar, A. B. Co., York, Pa.
 Gale Mfg. Co. (Steel or Wood Frame), Alhion, Mich.
 Greenville Implement Co., Greenville, Mich.
 Hancock Disc Plow Co., Alton, Ill.
 Hartford Plow Works, Hartford, Wis.
 Heebner & Sons, Lansdale, Pa.
 Hensch & Dromgold Co., York, Pa.
 Hoke Mfg. Co., South Bend, Ind.
 Howland Mfg. Co., Pontiac, Mich.
 International Harvester Co. of America (Steel Frame, Steel, Steel Frame Lever, Wheel Riding, One Horse Garden, Vineyard Peg Tooth, etc.), 7 Monroe, Chicago, Ill.; Osborne Plant: Auburn, N. Y.
 Johnson Harvester Co. (Perry), Batavia, N. Y.
 Keystone Farm Machine Co., York, Pa.
 Kingman & Co., Peoria, Ill.
 Lean, Roderick Mfg. Co. (Also Spike Tooth), Mansfield, O.
 Lovejoy, H. H. & Son, Cambridge, N. Y.
 Merrill, Freeman C., South Paris, Me.
 Molitor, North & Moyers, Lansing, Mich.
 Ohio Rake Co. (Quail Steel & Advance Wood), Dayton, O.
 Patten & Stafford Co. ("New York Champion"), Canastota, N. Y.
 Spangler Mfg. Co., York, Pa.
 Standard Harrow Co., Utica, N. Y.
 Syracuse Chilled Plow Co., Syracuse, N. Y.
 Thomas Mfg. Co., Springfield, O.
 Williams Mfg. Co., Kalamazoo, Mich.

Harrows & Pulverizers

Adriance, Platt & Co. (Peg & Spring Tooth with or without Seat), Poughkeepsie, N. Y.
 Allen, S. L. & Co., 1017 Market, Phila., Pa.
 American Harrow Co., Detroit, Mich.
 American Seeding Machine Co. (Spike & Spring Tooth Lever, etc.), Main office, Springfield, Ohio
 Ames Plow Co., Quincy Hall, Boston, Mass.
 Anderson Co., Little Falls, Minn.
 Atlanta Agricultural Works ("Little Joe," "Arkansas Traveler," "Atlanta"), Atlanta, Ga.
 Austin-Bryan Mfg. Co., Birmingham, Ala.
 Avery, B. F. & Sons (Lever, Spike Tooth), Louisville, Ky.
 Bailey, Nichols & Co. (Nichols Roller Harrow), Barley, Thos. K., Sedalia, Mo.
 Bateman Mfg. Co. (Iron Age), Grenloch, N. J.
 Bechtolt, Geo. E., Urbana, O.
 Belcher & Taylor Agl. Tool Co. (Eclipse Weed Harrow, Yankee Pulverizer, Share's Coulter Harrow, etc.), Chicopee Falls, Mass.
 Benicia Agricultural Works (Benicia, Peerless & Eureka), Benicia, Cal.
 Billups, O. Son & Co., Norfolk, Va.
 Bradley, David Mfg. Co. (U Bar Lever, Gas Pipe Frame), Bradley, Ill.
 Brown, Geo. W. & Co. (Lever Pipe, U Bar & Wood), Galesburg, Ill.
 Brown Mfg. Co., Zanesville, O.
 Bucher & Gibbs Plow Co. (Imperial Lever Spike Tooth, Spring Tooth, Wood-Bar, etc.), Canton, O.
 Buffalo Pitts. Co. (Spike Tooth), Buffalo, N. Y.
 Case, J. I. Plow Works (Critic & Case, Lever, Scotch), Racine, Wis.
 Castille Chilled Plow Co., Castille, N. Y.
 Champlon Thresher Co., Orrville, O.
 Clayton, John Plow Works Co. (Steel Lever, Wood, etc.), Minneapolis, Minn.
 Clipper Chilled Plow Co., Elmira, N. Y.
 Collins Plow Co. (Quincy Lever, Steel U Bar), Clinton, N. Y.
 Crisler, J. L., Perth, Kan.
 Cutaway Harrow Co. ("Clark"), Higgenum, Conn.
 Daley, M. H., Charles City, Ia.
 Deere & Co., Moline, Ill.
 Deere & Mansur Co. (Zig-Zag, Deer Lever, Ajax, Scotch), Moline, Ill.
 Deutscher, H. P. Co. (McColm Pulverizer), Hamilton, O.
 Donaldson Bros. (Spike Tooth), Mt. Clemens, Mich.
 Dowden Mfg. Co. (Weed Harrow), Prairie City, Ia.
 Dunham, J. W. & Son, Berea, O.
 Eagle Mfg. Co., Kansas City, Mo.
 Eaton Plow Works (V. A. Stookey & Son, Props.), Pinckneyville, Ill.
 Emerson Mfg. Co., Rockford, Ill.
 Empire Plow Co. ("Empire"), Ensley, Ala. & Cleveland, O.
 Evans, A. O. Mfg. Co. (U Bar), Springfield, O.
 Farquhar, A. B. Co., Ltd. (Spring Tooth, etc.), York, Pa.
 Fond-du-Lac Implement Co., Fond-du-Lac, Wis.
 Fountain City Drill Co. (Steel Lever), La Crosse, Wis.
 Fuller & Johnson Mfg. Co. (Boss, Bonanza Lever, U & Pipe Bar), Madison, Wis.

Fulton Machine Co. (Cyclone Soil Pulverizer), Canal Fulton, O.
 Gale Mfg. Co. (Spring Tooth Steel & Lever Harrows, Spike Tooth, Steel U Bar), Alhion, Mich.
 Galesburg Coulter-Disc Co., Galesburg, Ill.
 Genesee Valley Mfg. Co. (Fargo V Tooth), Mt. Morris, N. Y.
 Grand Detour Plow Co. (Pine, Beam, U Bar, Angle Bar, Wood & Steel), Dixon, Ill.
 Greencastle Mfg. Co. (Perry Pattern), Greencastle, Pa.
 Halsh Mfg. Co., De Kalb, Ill.
 Hancock Disc Plow Co. ("Hancock-La Dow"), Combined Spring & Spike Tooth; U Bar), Alton, Ill.
 Hartford Plow Works (Boss Lever, Angle Bar, Scotch), Hartford, Wis.
 Hayes Pump & Planter Co. (Steel U Bar, Angle Bar or Pipe with Spike Tooth), Galva, Ill.
 Hazen, W. S. & Marshall (Hazen, Scotch), Ripon, Wis.
 Hensch & Dromgold Co. (Spike Tooth, Steel & Wood Frame, Pulverizers, etc.), York, Pa.
 Hickox, Mull & Hill Co. (Champion Pulverizer), Toledo, O.
 Hoke Mfg. Co. (Lever Spike Tooth), South Bend, Ind.
 Houser & Haines Mfg. Co. (Spike Tooth), Stockton, Cal.
 Howell, R. R. & Co., Minneapolis, Minn.
 Howland Mfg. Co., Pontiac, Mich.
 Hudson, S. T. (Hudson, Four-in-One), Riverhead, N. Y.
 Hunt, Helm, Ferris & Co., Harvard, Ill.
 International Harvester Co. of America, 7 Monroe, Chicago, Ill.; Osborne Plant, Auburn, N. Y.
 Janesville Machine Co. (Tubular Lever), Janesville, Wis.
 Jelliff C. O. Mfg. Corporation (Meeker's Smoothing), Southport, Conn.
 Johnson & Smith Co. (Steel), Austin, Minn.
 Johnson Harvester Co. (Steel), Batavia, N. Y.
 Keller Mfg. Co., Sauk Center, Minn.
 Keystone Farm Machine Co. (Spring & Spike Tooth), York, Pa.
 Keystone Mfg. Co., Sterling, Ill.
 King & Hamilton Co. (Pulverizers), Ottawa, Ill.
 Kingman & Co., Peoria, Ill.
 Kingman Plow Co. (U Bar), Peoria, Ill.
 La Crosse Plow Co. (Tubular, Zig-Zag, Steel & Wood Flexible & Wood Lever), La Crosse, Wis.
 Lean, Roderick Mfg. Co. (All Steel Lever, Zig-Zag, Spike Tooth), Mansfield, O.
 Lee Bros., Watertown, S. D.
 Lehr Agricultural Co. (Peg Tooth, etc.), Fremont, O.
 Lovejoy, H. H. & Son (Spike Tooth), Cambridge, N. Y.
 McSherry Mfg. Co., Middletown, O.
 MacGowan & Finigan Fdy. & Machine Co. ("M. & F." U. Bar Steel), Gay bldg, St. Louis, Mo.
 Marcellus Harrow Mfg. Co. (Triangular-Steel Frame), Marcellus, Ill.
 Mead Hay Press Co., Pueblo, Col.
 Merrill, Freeman, C., South Paris, Me.
 Minneapolis Plow Works (Boss, Monitor, Scotch Steel Frame Lever), Minneapolis, Minn.
 Moline Plow Co. (Steel Pipe Lever, U Bar Pulverizer, Moline, Ill.
 Molitor, North & Moyers, Lansing, Mich.
 Monmouth Plow Co. (Lever), Monmouth, Ill.
 Morrison Mfg. Co. (Steel Lever), Ft. Madison, Ia.
 Nash, Duane, H. (Acme Pulverizer Harrow, Clod Crusher & Leveler), Millington, N. J.
 Ohio Cultivator Co. (Steel Lever, Cyclone Pulverizer), Bellevue, O.
 Ohio Rake Co. (U Bar, Quail L Bar, Spike Tooth), Dayton, O.
 Parlin & Orendorff Co. (Canton Pipe Frame Lever & U Bar Lever Scotch & Smoothing, Rough Rider, Clod Crusher), Canton, Ill.
 Partridge, B. F., Fergus Falls, Minn.
 Patten, Frank C. Co., Sycamore, Ill.
 Patten & Stafford Co., Canastota, N. Y.
 Pekin Plow Co. (Lever & Disc), Pekin, Ill.
 Peoria Implement Mfg. Co. (Rex Harrow & Pulverizer), Peoria, Ill.
 Peru Plow & Wheel Co., Peru, Ill.
 Peterson Mfg. Co. (Imperial Pulverizer), Kent, O.
 Phoenix Foundry & Mfg. Co. (Parker's Pulverizers), Ripley, O.
 Plattner Implement Co. (Spike Tooth, Steel Frame), Denver, Col.
 Pounder, G. H. (Pounder Flexible, Ft. Atkinson, Wis.
 Racine-Sattley Co. (Spike Tooth, Steel Frame), Springfield, Ill.
 Reed & Rogers (Scotch), Vernon, Ind.
 Richmond Plow Co., Richmond, Ind.
 Ripson, Wm. & Son, Youngstown, N. Y.

Rock Island Plow Co. (Steel & Wood Lever, Flexible, Boss), Rock Island, Ill.
 Rockford Implement Co. ("Skandia", Spike Tooth, Wood Frame), Rockford, Ill.
 Rockford Mfg. Co. ("Rockford", Steel & Wood Lever), Rockford, Ill.
 Rowell, I. B. & Co., Menomonee Falls, Wis.
 St. Joseph Plow Co. (Scotch, Channel & Pipe or Tap Bar Steel Spike Tooth), St. Joseph, Mo.
 Sargent, S. R. & Co. (New England Smoothing), Castleton, Vt.
 Savannah Implement Co. (Harrows), Savannah, Ga.
 Sears, Albert H. Co., Plano, Ill.
 Sechler, D. M. Carriage Co. (Black Hawk Pulverizer), Moline, Ill.
 Selby, Starr & Co., Peoria, Ill.
 South Bend Chilled Plow Co. (Smoothing, New Market 14 Teeth), South Bend, Ind.
 Southern Plow Co., Columbus, Ga.
 Sparta Plow Works (Imperial U Bar), Sparta, Ill.
 Standard Harrow Co. ("Crescent" & "Superior" Spike Tooth Lever), Utica, N. Y.
 Star Mfg. Co. (Spike Tooth, U Bar), Carpentersville, Ill.
 Sterling Mfg. Co. (Lever), Sterling, Ill.
 Sucker State Drill Co., Belleville, Ill.
 Sulky Disc Harrow Co., Madison, Wis.
 Syracuse Chilled Plow Co. (Spring & Spike Tooth), Syracuse, N. Y.
 Tait, F. B. Mfg. Co., Decatur, Ill.
 Thomas Mfg. Co. (Spike Tooth), Springfield, O.
 Thompson, J. & Sons Mfg. Co. (U. Bar, Steel Lever, Champion Pipe Bar), Beloit, Wis.
 Toledo Plow Co. (Spike or Spring Tooth), Toledo, O.
 Tomasek & Nekola, La Crosse, Wis.
 Tower, J. D. & Sons Co. (Pulverizer, Clod Crusher & Weed Exterminator), Mendota, Ill.
 Towers & Sullivan Mfg. Co. ("Pennington", Roman & Ark Side Harrow), Rome, Ga.
 Umbach, F. G., Athens, Ga.
 Vaughn, O. O. Mfg. Co. (Flexible), Jefferson, Wis.
 Ware, J. L. (Boss Steel Lever), Minneapolis, Minn.
 Whitman Agricultural Co., St. Louis, Mo.
 Wiard Plow Co. (Cotton & Corn), Batavia, N. Y.
 Wilder-Strong Implement Co., Monroe, Mich.
 Zelisch, A. Theo. (Smoothing), Mayville, Wis.

Harvesters (Bean & Pea)

Acme Harvester Co., Peoria, Ill.
AKRON CULTIVATOR CO., Akron, O.
 (See adv. index, end of book)
 Allen, S. L. & Co., 1017 Market, Phila., Pa.
 American Harrow Co., Detroit, Mich.
 Arnold's, G. W. Son, Ionia, Mich.
 Beach Mfg. Co., Lyons, Mich.
 Bidwell, C. H. Thresher Co. (Inc.), Batavia, N. Y.
 Caledonia Bean Harvester Works, Caledonia, N. Y.
 Cardwell Machine Co., Richmond, Va.
 Clore's, Wm. Sons (Pea), Rising Sun, Ind.
 Farmers' Handy Wagon Co., Saginaw, Mich.
 Gale Mfg. Co., Alhion, Mich.
 Howland Mfg. Co., Pontiac, Mich.
 Lehr Agricultural Co., Tremont, O.
 Le Roy Plow Co., Le Roy, N. Y.
 Munnsville Plow Co., Munnsville, N. Y.
 Ohio Cultivator Co., Bellevue, O.
 Port Huron Engine & Thresher Co., Port Huron, Mich.
 Rowell, J. S. Mfg. Co., Beaver Dam, Wis.
 Wettlaufer, Ratz Mfg. Co., Cass City, Wis.
 Wiard Plow Co. (The Universal), Batavia, N. Y.

Harvesters (Beet)

American Beet Harvester Co., Port Huron, Mich.

Harvesters (Combined)

Best Mfg. Co., San Leandro, Cal.
 Holt Mfg. Co., Stockton, Cal.
 Houser & Haines Mfg. Co., Stockton, Cal.

Harvesters (Corn)

Adriance, Platt & Co. (Also Rear Discharge & Elevator Binders), Poughkeepsie, N. Y.
 Bennett, H. L. & Co., Westerville, O.
 Blue Valley Mfg. Co., Manhattan, Kan.
 Deering Harvester Co., Chicago, Ill.
 Empire Foundry & Harvester Works, Marysville, Cal.
 Fleming & Sons Mfg. Co., Huntsville, Mo.
 Fooms Mfg. Co., Springfield, O.
 Hickox, Mull & Hill Co., Toledo, O.
 Independent Harvester Co., Plano, Ill.
 International Harvester Co. of America, 7 Monroe, Chicago, Ill.; Osborne Plant, Auburn, N. Y.

Johnston Harvester Co., Batavia, N. Y.
 Kansas City Hay Press Co., Kansas City, Mo.
 Lehr Agricultural Co., Fremont, O.
 Standard Harrow Co., Utica, N. Y.
 Stevens Mfg. Co., Joliet, Ill.
 Wood, Walter A., Mowing & Reaping Machine Co., Heosick Falls, N. Y.

Harvesters (Rice)

International Harvester Co. of America, 7 Monroe, Chicago, Ill.; Osborne Plant, Auburn, N. Y.
 Johnston Harvester Co., Batavia, N. Y.

Harvesters & Binders (Grain)

Acme Harvesting Machine Co., Peoria, Ill.
 Adriance Platt & Co., Poughkeepsie, N. Y.
 Aultman Taylor Mfg. Co., Mansfield, O.
 Independent Harvester Co., Plano, Ill.
 International Harvester Co. of America, 7 Monroe, Chicago, Ill.; Osborne Plant, Auburn, N. Y.
 Johnston Harvester Co., Batavia, N. Y.
 Keystone Co., Sterling, Ill.
 Minnie Harvester Co., St. Paul, Minn.
 Seiberling & Miller Co., Doylestown, O.
 Wood, Walter A., Mowing & Reaping Machine Co., Heosick Falls, N. Y.

Hasps & Staples

(See also Staples.)

Brewer Bros., 614 Filbert, Phila., Pa.
 Corbitt Cabinet Lock Co., New Britain, Conn.
 Cronk & Carrier Mfg. Co., Elmira, N. Y.
 Griffin Mfg. Co. (Also Wrought Steel Hinge Hasps), Erie, Pa.
 Hazel Atlas Glass Co., Wheeling, W. Va.
 Humason & Beckley Mfg. Co., New Britain, Conn.
 Lawrence Bros. (Wrought Iron), Sterling, Ill.
 Ney Mfg. Co., Canton, O.
 Racine General Mfg. Co., Racine, Wis.
 Reading Hardware Co. (Wrought Iron), Reading, Pa.

RICHARDS MFG. CO., Aurora, Ill.
 (See adv. index & branch offices, end of book)
STANLEY WORKS (Wrought Crate)
 for Berry Boxes, etc.), New Britain, Conn., & 79 Chambers, New York. (See adv. index, end of book)

Vaughan & Bushnell Mfg. Co., 877 Carroll av., Chicago, Ill.
 Western Brass Mfg. Works (Cast Brass or Bronze), 21st & Rockwell, Chicago, Ill.

Hatch Doors (Automatic)

Bardsley Bros., 151 Baxter, N. Y.
 Beckwith Elevator Co., 123 Pearl, Boston, Mass.
COHOES IRON FOUNDRY & MACHINE CO., Cohoes, N. Y. (See adv. index, end of book)
 Curran, Jas. H. Elevator Co., 114 W. 2d, Cincinnati, Ohio.
MORSE, WILLIAMS & CO., 32 South Broad, Phila., Pa. (See adv. index & branch offices, end of book)
SALEM, ELEVATOR WORKS, Salem, Mass. (See adv. index, end of book)
SEDGWICK MACHINE WORKS, 128 Liberty, New York & Poughkeepsie, N. Y. (See adv. index, end of book)
SPEIDEL, J. G., & Buttonwood & Gordon, Reading, Pa. (See adv. index, end of book)
 Underwriters Hatch Door Co., 58 N Jefferson, Chicago, Ill.
WARNER ELEVATOR MFG. CO., Spring Grove av, Alfred & Valley, Cincinnati, O., & 15 Park row, New York. (See adv. index & branch offices, end of book)
WARSAW ELEVATOR CO., Warsaw, N. Y., & Erie Co. B'k bldg, Buffalo, N. Y. (See adv. index & branch offices, end of book)
 Webb, J. R. (Excelsior), 414 Bleeker, N. Y.
 Weichans, A. C., 202 W James, Lancaster, Pa.

Hatch Doors (Automatic in Case of Fire Only)

REEDY, H. J. CO. (Fusible Link in Case of Fire), Cincinnati, O. (See adv. index, end of book)
 Richmond Safety Gate Co., Richmond, Ind. & (Kyrle S. Evans, Agent), 235 B'way, N. Y.
 Underwriters Hatch Door Co. (Electric), 58 N Jefferson, Chicago, Ill.
 Victor Mfg. Co. (Fusible Link), Newburyport, Mass.

Hatch Gates (Automatic)

(See Elevator Gates, Automatic.)

Hatchet Mfrs.

American Axe & Tool Co. (All Kinds), Glassport, Pa., 253 B'way, N. Y.
 Arcade Mfg. Co. (Cast Shingling, etc.), Freeport, Pa.
 Black, H. B. & Co., Chester, Pa.
 Bangor Edge Tool Co. ("Hunting"), Bangor, Me.
 Bradley's, G. W. Sons (Inc.), Westport, Conn.
 Burgess-Norton Mfg. Co. ("Black Eagle"), Geneva, Ill.
 Chantrell Tool Co. (Cast Iron & Steel), Reading, Pa.
 Collins Co., Collinsville, Conn.
 Evansville Tool Works (All Kinds), Evansville, Ind.
 Findlay Axe & Tool Co., Findlay, O.
 Franklin Specialty Co. ("Clark" Nickel Plated), Reading, Pa.
 Gleason & Allen, Plymouth, Conn.
 Hammond, C. & Son (All Kinds), Ogontz, Pa.
 Harding Edge Tool Co., c McWhorter & Oliver, Newark, N. J.
 Mack & Co. ("D. R. Barton"), Rochester, N. Y.
 Mason & Parker, Winchendon, Mass.
 National Novelty Corporation (Cast Iron, etc.), 826 B'way, New York
NATIONAL SUPPLY CO. (Cast Iron), 7 W Lombard, Baltimore, Md. (See adv. index, end of book)
 North Wayne Tool Co. (the "Karadam," Tobacco, etc.), Hallowell, Me.
 Peck Edge Tool Co. (All Kinds), Cohoes, N. Y.
 Peck, Stow & Wilcox Co., Southington, Conn., & 27 Murray, New York
 Philadelphia Steel & Iron Co. (Carpenters), Fkd, Phila., Pa.
 Phoenix Hardware Mfg. Co., Homer, N. Y.
 Plumb, Fayette R., c Tucker & Trenton avs., Phila., Pa.
 Sayre, L. A. Co., Newark, N. J.
 United States Edge Tool Co., Cattaraugus, N. Y.
 White, L. & I. J. Co., 143 Perry, Buffalo, N. Y.
 Wiebusch & Hilger (Ltd.), 13 Murray, N. Y.
 Williams, A. C. Co., Ravenna, O.
 Williams, C. A. & Co., Skowhegan, Me.
 Wrightsville Hdw. Co. (Claw, Shingles & Half), Wrightsville, Pa.

Hay Racks (Folding)

Folding Hay Rack Co., Sodus, N. Y.

*Hay Racks (Wire & Iron)

BUFFALO WIRE WORKS CO., 316 Terracc, Buffalo, N. Y. (See adv. index, end of book)
OHIO STRUCTURAL IRON CO., Sandusky, O. (See adv. index, end of book)

Headers (Barrel)

Swett, A. I. Iron Works (Or Barrel Presses), Medina, N. Y.

*Headers (Fruit Can)

NIAGARA MACHINE & TOOL Works, Buffalo, N. Y. (See adv. index, end of book)

Headers (Rivet)

(See Rivet Heading Machines)

Headers (Rod)

Manville, E. J. Machinery Co., Waterbury, Conn.
 National Machinery Co., Tiffin, Ohio

Headers (Screw Blank)

Cook, Asa S. Co., Hartford, Conn.
 Manville E. J. Machine Co., Waterbury, Conn.

*Headers (Stone)

NEW ALBANY MFG. CO., New Albany, Ind.

Headers (Wire)

Blake & Johnson, Waterbury, Conn.

Headlights (Acetylene Gas)

Adams & Westlake, Ontario c N Franklin, Chicago, Ill.
 Rushmore Dynamo Works, Plainfield, N. J.
WILSON, F. CORTEZ & CO., 239 Lake, Chicago, Ill. (See adv. index, end of book)

Headlights (Arc)

Crouse-Hinds Co., Syracuse, N. Y.
 Dayton Mfg. Co. ("Wagenhals," "Moser," "Wellman," "Eureka" & "Rex"), Dayton, O.
 Kraushaar Brass Mfg. Co., St. Louis, Mo.
 St. Louis Car Co. ("The Anderson Smith"), 8000 N B'way, St. Louis, Mo.
 Smith, Chas G. (Straight & Combination), 352 Pearl New York

Headlights (Electric)

(See also Headlights, Locomotive.)

Adams & Westlake Co. (Arc), Ontario c N Franklin, Chicago, Ill.
 Boesch Lamp Co., 585 Mission, San Francisco, Cal.
 Brill, J. G. Co. (Electric Car), 62d & Woodland av, Phila., Pa.
 Crouse-Hinds Electric Co., Syracuse, N. Y.
 Dayton Mfg. Co. (Arc & Incandescent), Dayton, O.
 Dewey, F. O. Co., 28 Canal, Boston, Mass.
 General Electric Co., Schenectady, N. Y.
 Liberty Headlight & Lantern Co., Rochester, N. Y.
 Morris Electric Co., 15 Cortlandt, N. Y.
 Ohio Brass Co., Mansfield, O.
 Pyle National Electric Headlight Co., Monadnock blk, Chicago
 St. Louis Car Co. (Arc), 8000 N B'way, St. Louis, Mo.
 Star Head Light Co., Rochester, N. Y.
 Smith, Chas. G., 352 Pearl, New York
 Wheeler, Reflector Co., 156 Pearl, Boston, Mass.

Headlights (Incandescent)

Crouse-Hinds Co., Syracuse, N. Y.
 Dayton Mfg. Co. ("Kirby-Neal"), Dayton, O.
 Kraushaar Brass Mfg. Co., St. Louis, Mo.
 Ridlon, Frank Co., 200 Summer, Boston, Mass.
 Smith, Chas. G., 352 Pearl, New York

Headlights (Locomotive)

(See also Head Lights, Electric)

Adams & Westlake Co. (also Street & Inter-urban), Ontario & N Franklin, Chicago, Ill.
 Boesch Lamp Co., 585 Mission, San Francisco, Cal.
 Dayton Mfg. Co., Dayton, O.
 Dewey, F. O. Co., 28 Canal, Boston, Mass.
 Dressel Railway Lamp Works, 3878 Park av, N. Y.
 Glazier Head Light Co., 7 Griffith, Rochester, N. Y.
 Ham, C. T. Mfg. Co., 731 Oak, Rochester, N. Y.
 Handlan-Buck Mfg. Co. (Handlan), 210 N 3d, St. Louis, Mo.
 Kraushaar Brass Mfg. Co., 510 Elm, St. Louis, Mo.
 N. Y. Electric Headlight & Train Lighting Co. ("The De Laval"), 52 B'way, N. Y.
 Ohio Brass Co., Mansfield, Ohio
 Pyle-National, Elec. Headlight Co., Monadnock blk, Chicago, Ill.
 Rochester Head Light Works, Rochester, N. Y.
 Rushmore Dynamo Works (Acetylene Gas & Electric), Plainfield, N. J.
 Russell & Watson, 145 Main, Buffalo, N. Y.
 Schroder Headlight Co., Evansville, Ind.
 Sherburne & Co., 53 Oliver, Boston, Mass.
 Star Head Light Co., Rochester, N. Y.
 U. S. Headlight Co., Buffalo, N. Y.
 Wheeler Reflector Co., 156 Pearl, Boston, Mass.
WILSON, F. CORTEZ & CO., 239 Lake, Chicago, Ill. (See adv. index, end of book)

Headlights (Oil)

Adams & Westlake Co., Ontario c N Franklin, Chicago, Ill.
 Liberty Headlight & Lantern Co., Rochester, N. Y.
 Smith, Chas. C., 352 Pearl, New York

When writing to firms whose names appear in this book please mention

HENDRICKS' COMMERCIAL REGISTER.

Heads (Boiler)

(See Boiler Heads, Flanged.)

Heads (Coke Scraper)

Philips Mine & Mill Supply Co., Pittsburg, Pa.

Heads (Cutter)

American Woodworking Machinery Co., Rochester, N. Y., & West Street bldg, New York
 Bentei & Margedant Co., Hamilton, O.
 Ettinger Machine Co., Chester, Pa.
 Fay, J. A. & Egan Co., Front & John, W., Cincinnati, O.
 Moshannon Mfg. Co. (Varibie), Philipsburg, Pa.
 Philbrick, W. W., Seattle, Wash.
 Power, L. & Co., 20 S 23d, Phila., Pa.
 Shimer, Samuel J. & Sons (Expansion), Milton, Pa.
 Smith, H. B. Machine Co., Smithville, N. J., & 121 Liberty, N. Y.
 Thomson, W. S., 418 W 27th, N. Y.

Heads (Dado)

Atkins, E. C. & Co. (Inc.), Home Offices & Factories, Indianapolis, Ind.
 Bentei & Margedant Co., Hamilton, O.
 Fox Machine Co., Grand Rapids, Mich.
 Huther Bros., Rochester, N. Y.

Heads (Golf)

Page-Storms Drop Forge Co. (Drop Forged Steel), Springfield, Mass.

Heads (Hollow Augur)

Bentei & Margedant Co., Hamilton, O.

Heads (Index & Dividing)

Brown & Sharpe Mfg. Co., Providence, R. I.
 Cincinnati Milling Machine Co., Spring Grove av & Alfred, Cincinnati, Ohio
 Garvin Machine Co., 137 Varick, N. Y.
OWEN MACHINE TOOL CO., Springfield, O. (See adv. index, end of book)
 Pratt & Whitney Co., Hartford, Conn.

Heads (Piston)

Chester Steel Castings Co., Chester, Pa., & 407 Sansom, Phila., Pa.
 Pratt & Letchworth Co., Buffalo, N. Y.

Heads (Planer)

Crucible Steel Co. of America (La Belle Steel), Frick bldg, Pittsburg, Pa.

Heads (Polishing)

Builders' Iron Foundry, Providence, R. I.
 Goodell-Pratt Co. (Also Grinding), Greenfield, Mass.
 Hanson & Van Winkle Co., Newark, N. J.
 Zucker & Levett & Loeb Co., 526 W 25th, N. Y.

***Heads (Rotary)**

GLAZIER NOZZLE & MFG. CO. ("Glazier"), 501 & 502 Commercial Club bldg, Indianapolis, Ind. (See adv. index, end of book)

Heads (Screw Cutting Die)

Modern Tool Co. (Self Opening), Erie, Pa.
WELLS BROS CO. ("Little Giant"), Greenfield, Mass. (See adv. index, end of book)

Heads (Turret)

Baker Machine Co., New Bedford, Mass.

Heaters (Airtight Wood)*WILSON F. CORTEZ & CO., 239 Lake,** Chicago, Ill. (See adv. index, end of book)**Heaters (Asphalt)**

(See also Machinery, Asphalt)

Evans, F. H. Co., 596 Kent av, Brooklyn, N. Y.
 Hooke, Robt., Chattanooga, Tenn.
 Iroquois Iron Works, Buffalo, N. Y.
KOVEN, L. O. & BRO., 50 Cliff, N. Y. (See adv. index, end of book)
 Littleford Bros., 435 E Pearl, Cincinnati, O.
 Lyman, W. C., 49 Michigan st., Chicago.
 MacLeod, Walter & Co., 213 E Pearl, Cincinnati, O.
PRESSED STEEL TANK CO., Milwaukee, Wis. (See adv. index, end of book)
SCAIFE, WM. B. & SONS CO., 221 1st av, Pittsburg, Pa. (See adv. index, end of book)
SCHALL, JULIAN & CO. (Melting Tanks), 126 Liberty, New York. (See adv. index, end of book)
 Stuebner, G. L. Iron Works, Long Island City, N. Y.
 Turi's, Jno. Sons, 26 Cortlandt, New York. Works: Newburgh, N. Y.

Heaters (Automobile & Carriage)

Chicago Auto Heater Co. ("H. & H."), 285 N State, Chicago, Ill.
 Chicago Flexible Shaft Co. ("Clark"), La Salle av & Ontario, Chicago, Ill.
 Lehman Bros., 10 Bond, New York
 Manhattan Automobile School ("Manhattan")
 Novelty Mfg. Co. (X-Radium), Jackson, Mich.
 Progressive Mfg. Co. ("Petty"), Pana, Ill.
 Seaman, Willis F. ("Peerless"), Mineola, N. Y.
 Standard Stamping Co. ("Standard"), Marysville, O.

Heaters (Barrel)

Chambers Patent Barrel Heater Co. (For Coopers), St. Louis, Mo.
 Hynson Tool & Supply Co. ("Champion"), St. Louis, Mo.
 Jacobs, Kenneth W., Milwaukee, Wis.
 Manistee Iron Works Co., Manistee, Mich.
 Warsaw Elevator Co., Warsaw, N. Y.

Heaters (Bath)

(See Heaters, Water)

Heaters (Boiler Feed)*KEWANEE BOILER CO., Kewanee, Ill.,** & 169 E Lake, Chicago, Ill. (See adv. index, end of book)**Heaters (Car)**

Baker, Smith & Co., 83 W Houston, N. Y.
 Baker, Wm. O. Heating & Supply Co., 143 Liberty, N. Y.
 Brill, J. G. Co., 62d & Woodland av, Phila., Pa.
CHICAGO CAR HEATING CO. (Vapor System), Railway Exchange bldg, Chicago, Ill., & 170 B'way, New York. (See adv. below)
 Consolidated Car Heating Co. (Direct Steam & Hot Water), 42 B'way, New York, & 413 N Pearl, Albany, N. Y.
 Creamer, W. G. & Co., 96 John, N. Y.
 Economy Car Heating Co., 170 B'way, New York, N. Y.
 Franklin Car Heating Co., Syracuse, N. Y.

Fuller-Warren Co., Milwaukee, Wis.
 Fuller & Warren Co., Troy, N. Y.
 Germer Stove Co. ("Radiant" Hot Water), Erie, Pa.
 Gold Car Heating & Lighting Co., 17 Battery pl, New York
 Griffing, A. A., Iron Co., Jersey City, N. J.
 McGuire-Cummings Mfg. Co. ("Columbia"), 122 N Sangamon, Chicago, Ill.
 Safety Car Heating & Lighting Co., 160 B'way, N. Y.
 Smith, Peter Heater Co. (Hot Water), Detroit, Mich.
 Smith, W. A. & Co., 120 Champlain, Cleveland, Ohio
 Spear, Jas. Stove & Heating Co. (Heating & Ventilating Combined), 1014 Market, Phila., Pa.
 Wilks, S. Mfg. Co., 35th & Shields av, Chicago, Ill.

Heaters (Combination)

Barber Mfg. Co. (Hot Water & Hot Air), Ash-tabula, O.
 Barstow Stove Co. (Bay State), 210 Water, New York & Providence, R. I.
 Boynton Furnace Co., 207 Water, N. Y.
 Chicago Heater & Supply Co., 54 Dearborn, Chicago, Ill.
 Cox, Abram, Stove Co., cor American & Dauphin, Phila., Pa.
 Earley, Wm. (Hot Air, Hot Water & Steam), 1216 Ridge av, Phila., Pa.
 Excelsior Steel Furnace Co., 38 W Monroe, Chicago, Ill.

Fuller-Warren Co., Milwaukee, Wis.
 Fuller & Warren Co., Troy, N. Y.
 Giblin & Co., Utica, N. Y.
 Hart & Crouse Co., Utica, N. Y.
 Henderson, Frank, Troy, N. Y.
 International Heater Co., Utica, N. Y.
 Keith Furnace Co., Des Moines, Ia.
 Kohler Furnace & Steam Heating Co., Elmwood c Dunlow, Boston, Mass.
 McCrum-Howell Co. (Hot Air & Hot Water), 46 E 20th, New York, N. Y.
 Magee Furnace Co., 38 Union, Boston, Mass.
 Makin-Kelsey Heating & Mfg. Co., 24 S 7th, Phila., Pa.
 March-Brownback Stove Co., Pottstown, Pa.
 Mershon Patent Shaking Grate Works, 1203 Filbert, Philadelphia, Pa.
 Monroe Foundry & Furnace Co., Monroe, Mich.
 Mott, J. L., Iron Works (Hot Air & Hot Water), 118 5th av, New York
 Mueller, L. J. Furnace Co., Milwaukee, Wis.
 Orr, Painter & Co. (Hot Air & Hot Water), Reading, Pa.
 Peninsular Stove Co., 10th & W Fort, Detroit, Mich.
 Portland Stove Foundry Co., Portland, Me.
 Quaker Mfg. Co. (Hot Air & Hot Water), Chicago Heights, Ill.
 Richardson & Boynton Co., 234 Water, N. Y.
 Sheppard, Isaac A. & Co., 1801 N 4th, Phila., Pa.
 Shriver, Fred'k, Sr., 260 Lyon, Grand Rapids, Mich.
 Smith Chas. Co. (Hot Air & Hot Water), 122 Lake, Chicago
 Southard-Robertson Co., 257 Water, New York
 Stamford Foundry Co. (Hot Air & Hot Water), Stamford, Conn.
 Utica Heater Co., Utica, N. Y.
 Walker & Pratt Mfg. Co., 33 Union, Boston, Mass.
 White, Chas. H. & Co., 22 Bowker, Boston, Mass.

Heaters (Electric)

American Electrical Heater Co (For Cooking, Heating, etc.), Detroit, Mich.
 Detroit Electric Co., 56 Shelby, Detroit, Mich.
 228 W B'way, New York
 McCay Engineering Co. (Radiator Heat), 9 E Lexington, Baltimore, Md.
 Simplex Electrical Co., 110 State, Boston, Mass.

CHICAGO CAR HEATING CO.

RAILWAY EXCHANGE
 CHICAGO
 170 BROADWAY
 NEW YORK

VAPOR SYSTEM

Steam Hose Couplers. Train Pipe Valves. Safety Valves. Car Heater and Drain Valves. Steam Traps.
 Car Heater Fittings. Catalogue describing all devices, cheerfully furnished upon application.

Heaters (Electric Car)

Bay State Electric Heat & Light Co., 89 State, Boston, Mass.
Consolidated Car Heater Co., 42 B'way, New York, & Albany, N. Y.
Gold Car Heating & Lighting Co., 17 Battery pl., N. Y.
Johns, H. W.-Manville Co. ("J-M"), 100 William, New York
New Century Car Heater Co., Jersey City, N. J.
Prometheus Electric Co., 236 E 43d, New York
St. Louis Electrical Supply Co., 1118 Pine, St. Louis, Mo.
Simplex Electric Heating Co., 110 State, Boston Mass.
Southern Electric Co., 203 E Fayette, Baltimore, Md.
Whittingham Mfg. Co., Baltimore, Md.

Heaters (Feed Water)

Alberger Condeuser Co. ("Wainwright"), 95 Liberty, New York
All Metal Valve Co., 136 Liberty, New York
ALLIS-CHALMERS CO. ("Reynolds"), Milwaukee, Wis. (See adv. index & branch offices, end of book)
Anderson-McCutchen Co. ("Anderson"), Peekskill, N. Y.
Atwood & Morrill, Salem, Mass.
Baragwanath, Wm. & Son, 52 W Division, Chicago, Ill.
Bass Foundry & Mach. Co., Ft. Wayne, Ind.
Bates Machine Co. (Cookson), Joliet, Ill.
Berryman Heater Co., 125 N 4th, Phila., Pa.
Bonar, Jas. & Co. ("The Pittsburgh"), Frick bldg, Pittsburgh, Pa.
Brancher Bros. ("Little Giant"), Danville, Ill.
Bridgeport Boiler Works ("Lowe"), Bridgeport, Conn.
Brownell Co. (Standard & Improved), Dayton, O.
Casey & Hedges Mfg. Co., Chattanooga, Tenn.
Colles, E. G. T. & Co., 47 S Clinton, Chicago, Ill.
Cox & Sons Co., 215 Race, Phila., Pa.
Davis, I. B. & Son ("Berryman," "Gleaner" & "Hartford"), Hartford, Conn.
De Vries Bros., Passaic, N. J.
Duquesne Mfg. Co. ("Gunning," Mechanical Heater & Purifier), Park bldg, Pittsburgh, Pa.
Erie City Iron Works (Counter Current, etc.), Erie, Pa.
Erie Machine Shops ("Jackson"), Erie, Pa.
Erie Mfg. & Supply Co. ("Hardwick & Riblet"), Erie, Pa.
Excelsior Heater Co., 59 Townsend, Chicago, Ill.
FAIRBANKS, MORSE & CO., Franklin & Monroe, Chicago, Ill. (See adv. index & branch offices, end of book)
Flour Mill Machinery Co. ("Challenge" Heater & Purifier), Battle Creek, Mich.
Flynn Bros., Hoboken, N. J.
Foskett & Bishop Co., New Haven, Conn.
Frost Mfg. Co. ("Frost" Standard), Galesburg, Ill.
Gem City Boiler Co., Dayton, O.
Goubert Mfg. Co. ("Goubert"), 90 West, New York
Great Lake Engineering Works (Heaters & Purifiers), Detroit, Mich.
Griffing, A. A., Iron Co., Jersey City, N. J.
Harris, Arthur & Co. ("Harris" Coil Heater), 44 Curtis, Chicago, Ill.
Harrisburg Pipe & Pipe Bending Co. ("Harrisburg"), Harrisburg, Pa.
Harrison Safety Boiler Works ("Cochrane"), 17th & Allegheny av, Philadelphia, Pa.
Hawley Down Draft Furnace Co. ("Excelsior"), Chicago, Ill.
Hoppes Mfg. Co., Springfield, O.
Hussey, McCann & Co. (Compound Flue), 87 Warren, New York
International Steam Pump Co. ("Blake"), 114 Liberty, New York
Jacobs, Charles & Co. ("Jacobs" Water Tube), 51 Oliver, Boston
Jarvis Engine & Machine Works (Lime & Oil Separating Heaters & Purifiers), Lansing, Mich.
Kelley, B. F. & Son (Berryman's Feed Water Heater), 120 Liberty, New York
Kensington Engine Works (Ltd.), Beach & Vienna, Philadelphia, Pa.
KEWANEE BOILER CO., Kewanee, Ill. & 169 E Lake, Chicago, Ill. (See adv. index, end of book)
Knight & Jillson Co. (Stickle), 121 S Penn, Indianapolis, Ind.
KOVEN, L. O. & Bro., 50 Cliff, N. Y. (See adv. index, end of book)

Kroeschell Bros. Co., (Heaters & Purifiers), Chicago, Ill.
Kruger & Blind Co., 511 Master, Phila., Pa.
Learnmonth, Robert ("The Buffalo"), 200 La Fayette av, Buffalo, N. Y.
Loew Supply & Mfg. Co., Cleveland, O.
McGowan, John H. Co., Cincinnati, O.
Michelmann Steel Construction Co., Quincy, Ill.
Milwaukee Boiler Co. ("Crawley"), Milwaukee, Wis.

MINNEAPOLIS STEEL & MACHINERY CO., Minneapolis, Minn. (See adv. index, & branch offices, end of book)
National Boiler Works, 60 Fulton, Chicago, Ill.
National Pipe Bending Co., New Haven, Conn.
Nordberg Mfg. Co. (The Milwaukee), 476 Virginia, Milwaukee, Wis.
Oakes, Wm. L., Decatur, Ill.
Patterson, Frank L. & Co. ("Patterson-Berryman"), 26 Cortlandt, New York
PETROLEUM IRON WORKS CO. ("Lowe"), Washington, Pa., & Farmers' Bank bldg, Pittsburgh, Pa. (See adv. index, end of book)

Phoenix Iron Works Co., Meadville, Pa.
Pittsburg Feed Water Heater Co., Pittsburgh, Pa.
Platt Iron Works Co. ("Stillwell"), Dayton, O., & 100 B'way, New York
Quincy Engine Works (Open), Quincy, Ill.
Reilly, Jas., Repair & Supply Co., 229 West, New York
Robertson, James L. & Son, Inc., 48 Warren, N. Y.
SCAIFE, WM. B. & SONS CO., 221 1st av, Pittsburgh, Pa. (See adv. index, end of book)
Sims Co., Erie, Pa.
Sotter Bros., Pottstown, Pa.
Sprague Foundry & Mfg. Co., Council Bluffs, Iowa
Standard Steam Specialty Co. (Utility), 542 W B'way, New York
Steam Appliance Co. (Centrifugal, Wrought or Cast), Milwaukee, Wis.
Stewart Heater Co. (Open & Tubular; also "The Otis"), Buffalo, N. Y.
Thayer & Co. (Inc.), 42 B'way, New York
Unique Engineering Co. ("Unique"), 100 Hinsdale, Brooklyn, N. Y.
Ward Heater Co., Detroit, Mich.
Webster, Warren & Co., Camden, N. J.
Wetherill, Robt. & Co., Chester, Pa.
Wheeler, C. H. Mfg. Co., Lehigh & N 18th, Phila., Pa., & 26 Cortlandt, New York
Wheeler Condenser & Engineering Co. (& Multiple Effect), 42 B'way, New York
Whitlock Coil Pipe Co. ("American Standard," Copper Coil), Elmwood, Conn.
Wickes Bros., Saginaw, Mich.

Heaters (Fire Engine & Engine House)

American Fire Engine Co., Seneca Falls, N. Y.

Heaters (Fire Place)

Abendroth Bros., 109 Beekman, N. Y.
Bibb, B. C. Stove Co., 107 Light, Baltimore, Md.
Ideal Mfg. Co., 546 Franklin, Detroit, Mich.
Orr, Painter & Co., Reading, Pa.

Heaters (Gas)

(See Stoves & Heaters & Ranges, Gas)

Heaters (Gas, for Tool Tempering)

Brown & Sharpe Mfg. Co. (Drills, Punches, Chisels, etc.), Providence, R. I.

Heaters (Glue)

Advance Machinery Co. ("Wetmore" Portable Oil), Toledo, O.
Beck, Chas. Paper Co. (Ltd.), (For Book Binders, etc.), 607 Chestnut, Phila., Pa.
Dame & Townsend Co., 76 John, N. Y.
DART, E. M. MFG. CO., Providence, R. I. (See adv. index, end of book)
Dopp, H. Wm. & Son (Steam Jacketed), 522 Ellicott, Buffalo, N. Y.
Frances, Chas. E. & Bro. (Contact), 425 E. 8th, Cincinnati, O.
GRAMMES, L. F. & SONS, Allentown, Pa. (See adv. index, end of book)
HAMMACHER, SCHLEMMER & CO., 133 4th av, N. Y. (See adv. index, end of book)

Nason Mfg. Co., 71 Beekman, New York
Pancoast, Henry B. & Co. (Steam), 243 S. 3d, Phila., Pa.
Towsley, John T. Mfg. Co. (Steam), Cincinnati, O.
Stuart & Peterson Co. (Steam), Burlington, N. J.
Weatherly & Pulte (Steam), Grand Rapids, Mich.
WILSON, F. CORTEZ & CO., 239 Lake, Chicago, Ill. (See adv. index, end of book)

Heaters (Hot Water)

(See Heaters, Steam & Hot Water.)

Heaters (Lamp Chimney)

Cassady-Fairbank Mfg. Co., 6106 La Salle, Chicago, Ill.

Heaters (Oil)

(See Stoves & Heaters, Oil)

Heaters (Steam & Hot Water)

Firms that manufacture Hot Water Heaters only are designated thus (Hot Water) between name and address.

(See also Heaters, Steam & Hot Water Trade Names; also Heating Contractors, Steam & Hot Water; also Steam Fitters' Supplies)

CALIFORNIA

SAN FRANCISCO—Grannis, J. G. & Co. (Hot Water), 565 Mission
Royal Heating Co., 738 Mission
Tay, Geo. H. Co., 49 1st
Wilson, Wm. F. Co. (Hot Water), 328 Stockton

CONNECTICUT.

HARTFORD—Hartford Heating Co. (Hot Water), 278 Asylum
Whitlock Coil Pipe Co. (Hot Water)
NEW HAVEN—Foskett & Bishop Co.
National Pipe Bending Co. ("National," Hot Water)
NEW LONDON—Hopson & Chapin Mfg. Co. (Hot Water, also Sectional)
NEW MILFORD—New Milford Foundry & Mach. Works
NORWICH—McCrum-Howell Co., Main Office, Page, W. H. Boiler Co., New York
PUTNAM—Putnam Foundry & Machine Co.
WILLIMANTIC—Vanderman Plumbing & Heating Co.

ILLINOIS

AURORA—Aurora Boiler Works (Inc.)
BELVIDERE—Columbia Heating Co.
CHICAGO—**AMERICAN RADIATOR CO.** ("Ideal"), 282 Michigan av. (See adv. index, end of book)
Clow, Jas. B. & Sons, 342 Franklin
Columbia Heating Co., 40 Dearborn
Fuller-Warren Co., 86 Lake

When writing to firms whose names appear in this book please mention

HENDRICKS' COMMERCIAL REGISTER.

THE GORTON SYSTEM OF HEATING

is the ideal system. It embodies all the advantages of the Vapor, the Vacuum and Hot Water Systems with none of their disadvantages or defects.

The Gorton System costs less to install complete than the ordinary Hot Water System, and it can be put in by any Steam Fitter.

We will be pleased to send catalog and give further information on application.

GORTON & LIDGERWOOD CO.
96 LIBERTY STREET, NEW YORK, N. Y.

THE GORTON SIDE FEED BOILER

is specially constructed so that it will maintain a steady heat for ten hours without attention.

This is a very important advantage to be considered, as it insures a warm building day and night in coldest weather.

Catalog and prices on application.

GORTON & LIDGERWOOD CO.
96 LIBERTY STREET, NEW YORK, N. Y.

GORTON & LIDGERWOOD CO., S4

Van Buren. (See adv. above)

Herbert Boiler Co., 240 Root
Holland Radiator Co., 38 Dearborn
Illinois Malleable Iron Co., 30 W Monroe
International Heater Co. (of Utica, N. Y.),
48 Dearborn

KELLOGG - MACKAY - CAMERON

Co., Michigan av & 12th. (See adv. below)

KEWANEE BOILER CO., 169 E.

Lake. (See adv. index, end of book)

Kroeschell Bros. Co. (Steel Plate Greenhouse
Boilers), 55 Erie

Mott, J. L. Iron Works, Merchants Loan &
Rubel & Co., 82 Lake Trust bldg

Wilks, S. Mfg. Co., 35th & Shields av

GALVA—Hayes Pump & Planter Co. (Hot
Water)

Mulford Heater Co.

GIBSON CITY—Gibson Iron Works

KEWANEE-KEWANEE BOILER CO.

(See adv. index, end of book)

Peters Pump Co.

MOLINE—Barnard & Leas Mfg. Co.

PEORIA—McAleenan Boiler Co.

ROCKFORD—America Heating Co.

INDIANA.

ANDERSON—Anderson Foundry & Machine
Works

EVANSVILLE—Carmody, J. D.
Grote Mfg. Co. (Sectional)

INDIANAPOLIS—Hawkins, Rollyn Co. (Hot
Water)

Knight & Jilison Co., 121 S Penn

TERRE HAUTE—Prox, Frank Co.

WARSAW—Maish Mfg. Co.

IOWA

BURLINGTON—Murray Iron Works Co.

DES MOINES—Des Moines Mfg. & Supply Co.,
Turner & Brownlie 121 Court av

OSKALOOSA—Ideal Heating Co.
Iowa Mfg. Co.

Seevers Mfg. Co.

WEBSTER CITY—Webster City Steel Radiator
Co.

MAINE.

PORTLAND—Portland Stove Foundry Co. (Hot
Water)

MARYLAND

BALTIMORE—Flynn & Emrich, 222 N Holliday

Greenmount Iron & Mfg. Co., 883 Green-
mount av

Sheppard, Isaac A. & Co., Eastern av &
Chester

Stevenson & Co. (Hot Water), 601 S Caroline

Wood, W. E. Co., 18 N Howard

HAGERSTOWN—Hagerstown Heating Co.

MASSACHUSETTS

BOSTON—Blake, Willard E. ("Crescent"), 141
Franklin, Boston, Mass.

Fish, Hindle, 46 Washington, N.

Gurney Heater Mfg. Co., 188 Franklin

Highland Foundry Co., 1341 Columbus av

Lord & Burnham Co. (Hot Water), 819 Tre-
magee Furnace Co., 32 Union mont bldg

Mott, J. L. Iron Works, 378 Boylston

Pierce, Butler & Pierce Mfg. Co., 50 Oliver

Smith & Thayer Co., "Winchester," "Ajax"
& "Dragon" Steam & Hot Water), 236

Thayer, Jas. M., 89 Pearl Congress

Walworth Construction & Supply Co., 100

Walker & Pratt Mfg. Co., 33 Union Pearl

White, Chas. H. & Co. (Hot Water), 22
Bowker

CHELSEA—International Heater Co. (of Utica,
N. Y.)

GARDNER—Royal Steam Heater Co. (N. Y.)

HAVERHILL—Mills & McClintock

QUINCY—Bates, G. B. Heating & Plumbing
Co.

TAUNTON—Dighton Furnace Co.
Weir Stove Co.

White-Warner Co.

WATERTOWN—Walker & Pratt Mfg. Co.

WESTFIELD—Smith, H. B. Co.

WORCESTER—Stewart Boiler Works, Albany
c Muskego

MICHIGAN.

DETROIT—AMERICAN RADIATOR CO.
("Ideal") (See adv. index, end of book)

Dearing Water Tube Boiler Co., 551 Grand
River av

Detroit Heating & Lighting Co. (Hot Water,
Bolton Hot Water Heater), Wight nr
Peninsular Stove Co. Leib

Smith, Peter Heater Co., 328 Rivard

U. S. Heater Co., 251 Campbell av

GRAND RAPIDS—Rapid Heater Co., 83 Campau

KALAMAZOO—Humphrey Co. (Hot Water)

(Hot Water)

MONROE—Monroe Foundry & Furnace Co.
(Steam & Hot Water)

SAGINAW—Eureka Heating & Ventilating Co.

MINNESOTA.

MINNEAPOLIS—Andrews Heating Co. ("An-
drews" Steel)

KELLOGG - MACKAY - CAMERON

Co., 100 2d, S. (See adv. below)

Porter, W. F. & Co., 521 2d av, S

ST. PAUL—South Park Foundry & Machine Co.
(Hot Water), Gilfillan blk

MISSOURI

KANSAS CITY—KELLOGG-MACKAY-
Cameron Co., 2d & Main. (See adv. below)

ST. LOUIS—AMERICAN RADIATOR CO.
("Ideal"). (See adv. index, end of book)

Taylor, Wm. (Hot Water), 1325 Pine

NEW HAMPSHIRE.

EXETER—Exeter Machine Works

NEW JERSEY

BARTLEY—Bartley, Wm. & Son
GARWOOD—Garwood Foundry & Machine Co.

SECTIONAL BOILERS FOR STEAM and HOT WATER HEATING

*We manufacture a line of heaters; Economical, Durable, easy to manage
and many exclusive features. Send for our interesting Catalogs.*

MINNEAPOLIS SEATTLE
KANSAS CITY

Kellogg-Mackay-Cameron Co.

CHICAGO

BOILERS, RADIATORS, HEATING AND PLUMBING SUPPLIES

JERSEY CITY—Griffing, A. A. Iron Co.
Weathered Co. ("Weathered" Sectional), Or-
lent & West End avs
NEWARK—Drake, W. H., 36 Clinton
Soleau, E. R. Co. (Hot Water), 21 Camfield
Thatcher Furnace Co., 36 St. Francis
PATERSON—Columbia Heater Co.

NEW YORK.

ALBANY—Bates, Edw. P. (of Syracuse, N.
Y.), 310 B'way
Hunter, Jas. Heating & Contracting Co.,
3 Church
Walsh's, Jas. D. Sons, 40 Sheridan av
BINGHAMTON—Gaylord & Eitapenc Co.
BUFFALO—American Radiator Co. ("Ideal")
Stewart Heater Co. (Exhaust or Live Steam
or Both), 396 Norfolk av
ELMIRA—Elmira Heater & Foundry Co.
GENEVA—Catchpole Boiler Foundry & Machine
Co.
Geneva Boiler Works
Herdenden Mfg. Co. ("Furman")
NEW YORK CENTRAL IRON
Works Co. (See adv. index, end of book)
IRVINGTON—Lord & Burnham Co. (Hot Water)

NEW YORK CITY.

Borough of Brooklyn.

BROOKLYN—Roys System Co., 1010 Gates av
Scollay, Jno. A., 74 Myrtle av

Boroughs of Manhattan & Bronx

NEW YORK—Abendroth Bros., 109 Beekman
AMERICAN RADIATOR CO.
("Ideal"), 949 B'way. (See adv. on fol-
lowing page)

Baker, Smith & Co., 483 W B'way
Baker, W. C. (firm of), 143 Liberty
Barstow Stove Co. (Hot Water) (of Provi-
dence, R. I.), 210 Water

Boynton Furnace Co., 207 Water
Donegan & Swift ("Swift"), 6 Murray
Fuller & Warren Co. (of Troy, N. Y.), 1133
B'way, & 256 Water

Gold Car Heating & Lighting Co. (of Utica,
N. Y.), 17 Battery pl

GORTON & LIDGERWOOD CO., 96
Liberty. (See adv. top of preceding page)

Graff Furnace Co., 208 Water
Herdenden Mfg. Co. (of Geneva, N. Y.),
39 Cortlandt

Hitchings & Co. (Hot Water), 1170 B'way
International Heater Co. (of Utica, N. Y.),
Johnson & Co., 104 John 1 Madison av
Kay, W. H. Co., 244 Fulton
Lord & Burnham Co. (Hot Water), 1133
B'way

McCrum-Howell Co., 46 E 20th
Model Heating Co., 76 Centre

Mott, J. L. Iron Works, 118 5th av
Nason Mfg. Co., 71 Beekman
Newell Mfg. Co., 149 B'way

New York Central Iron Works Co. (of
Geneva, N. Y.), 150 Nassau

Pierce, Butler & Pierce Mfg. Co. (of Syra-
cuse, N. Y.), 254 4th av

Richardson & Boynton Co., 234 Water
Richardson Morgan Co., 239 Water

Rutzler, E. Co., 127 White
Sheppard, Isaac A. & Co. (of Phila., Pa.),
312 Pearl

Smith, H. B. Co. (of Westfield, Mass.),
133 Centre

Thatcher Furnace Co., 110 Beekman
United States Heater Co. (of Detroit,
Mich.), 129 Worth

(END OF NEW YORK CITY)

NORTH TONAWANDA—Armitage-Herschell
OLEAN—Luther Mfg. Co.

ONEIDA—Warner's Safety Boiler Co.
ROCHESTER—Co-Operative Foundry Co.
Falls, F. H., 272 State

SYRACUSE—Bates, Edw. P., 228 W. Water
Pierce, Butler & Pierce Mfg. Co.
Syracuse Heater Co., 517 S. Clinton

TROY—Fuller & Warren Co., River c Monroe
Henderson, Frank, 41 Maple av
Mahony Mfg. Co., 5th av & Liberty
West Side Foundry Co., Watervliet

UTICA—Giblin & Co., 105 Broad
Hart & Crouse Co.
International Heater Co.
Utica Heater Co.

OHIO.

AKRON—Prudential Heating Co. ("Prudential")
Twentieth Century Heating & Ventilating
Co. ("Twentieth Century")

CANTON—McLain, J. H. Co.
Novelty Iron Co.

CINCINNATI—Peck-Hammond Co., 124 E Pearl
CLEVELAND—Bartlett Bros. Co., 178 Huron
Cleveland Steam Boiler Works, 9 West
Mount-Squires Co. (Hot Water), 41 Acad-

DAYTON—Concord Mfg. Co.
Craig-Reynolds Foundry Co.
Dayton Supply Co., 439 1st

LORAIN—Lorain Heating & Mfg. Co.
MARTINS FERRY—Stanton Heater Co.
NORWALK—Ernsberger, H. K.

PENNSYLVANIA.

ALLENTOWN—Calorific Heater Co. ("Calor-
ific," also Sectional)

BATH—Bath Foundry & Machine Co.
CARBONDALE—Sperl Heater Co.

COATESVILLE—Coatesville Boiler Works
DOYLESTOWN—Rufe Bros.

HARRISBURG—Harrisburg Mfg. & Boiler Co.
HUNTINGDON—Keystone Boiler & Radiator
Co. (Hot Water)

LANDISVILLE—Monitor Steam Generator Mfg.
Co. ("Monitor" Wrought Iron Coil Boilers,
Low Pressure, Steam or Vapor & Hot
Water)

LANSDALE—Heebner & Sons
MIDDLETOWN—Raymond Mfg. Co.

PHILADELPHIA—**AMERICAN RADI-
ATOR CO.** ("Ideal"), 1342 Arch. (See adv. on
following page)

Cox & Sons Co., 215 Race
Earley, Wm. (Portable Hot Water & Air
& Hot Air & Steam), 1216 Ridge av

Kane, Wm. Mfg. Co., 1740 Market
Kensington Engine Works (Ltd.), (Hot
Water Only), Beach c E Berks

Model Heating Co., 142 N 10th
Mershon Patent Shaking Grate Co., 1203
Filbert

Mott, J. L. Iron Works, 1128 Walnut
Pierce, Butler & Pierce Mfg. Co., 831 Arch

Sheppard, Isaac A. & Co., 1801 N 4th
Vapor Heating Co. ("Broomell's" Vapor
System), 917 Arch

Wood, Jas. P. Heating Co., 39 S 4th
PITTSBURG—American Radiator Co. ("Ideal")
Pittsburg Water Heater Co.

SCAIFE, WM. B. & SONS CO., 221
1st av. (See adv. index, end of book)

READING—Orr, Painter & Co. ("Sunshine")
Steam & Hot Water

Prizer-Painter Stove & Heater Co.
Reading Radiator Co.

SCRANTON—Spencer Heater Co. ("Spencer")
TYRONE—Burley Heater Co.

UNIONTOWN—McCrum-Howell Co., Main Of-
fice, New York

WILLIAMSPORT—Williamsport Radiator Co.,
ft Walnut

YORK—Broomell, Schmidt, Steacy & Co. (Inc.)

RHODE ISLAND.

PROVIDENCE—Allen Fire Dept. Supply Co.,
Eddy c Friendship

Barstow Stove Co. (Hot Water)

WASHINGTON.

SEATTLE—**KELLOGG - MACKAY - CAM-
eron Co.** (See adv. on preceding page)

SPOKANE—Arnold, Evans Co. (Steam & Hot
Water), 107 E Howard

WISCONSIN.

DE PERE—De Pere Boiler & Mfg. Co. (Steel
Boilers)

MILWAUKEE—Fuller-Warren Co., 32d c Wright
Downey & Kruse Co., 112 2d

Mueller, L. J. Furnace Co.
Schwab, R. J. & Sons Co., 271 Clinton

RACINE—Davis Heater Co. (Steam & Hot
Water)

Heaters (Steam & Hot Water, Trade Names)

(For address of firms consult Heaters, Steam
& Hot Water)

(Heaters used for hot water solely are so
designated)

"A. & V."—Allen & Van Nest Co., Fleming-
ton, N. J.

"ACME"—Wm. Bartley & Son, Bartley, N. J.

"ADVANCE"—Hot Water—Pierce, Butler &
Pierce Mfg. Co., Syracuse, N. Y.

"ALLEN"—Wm. Allen & Sons, Worcester,
Mass.

"ALL RIGHT"—Wm. H. Page Boiler Co.,
Norwich, Conn.

"AMERICA"—America Heating Co., Rockford,
Ill.

"AMERICAN"—Kellogg-Mackey-Cameron Co.,
Chicago, Ill.

"AMERICAN"—Hot Water—Whitlock Coil Pipe
Co., Elmwood, Conn.

"AMERICAN"—Steam—Pierce, Butler & Pierce
Mfg. Co., Syracuse, N. Y.

"AMHERST"—Hot Water—McLain, J. H. Co.,
Canton, O.

"ANDRUS"—Hot Water—Abendroth Bros.,
New York

"AUBURN"—Steam & Hot Water—Utica
Heater Co., Utica, N. Y.

"BAKER, SMITH & CO.'S"—Baker, Smith &
Co., New York

"BATES"—Edw. P. Bates, Syracuse, N. Y.

"BAY STATE"—Hot Water—Barstow Stove
Providence, R. I.

"BERMUDA"—Hot Water—Co-Operative Foundry
Co., Rochester, N. Y.

"BERNHARD"—Steam & Hot Water—Gar-
wood Foundry & Machine Co., Garwood, N. J.

"BLAST"—J. H. McLain Co., Canton, O.

"BOLTON"—Hot Water—Detroit Heating &
Lighting Co., Detroit, Mich.

"BOLTON, G. & J. B. IMPROVED"—Foskett &
Bishop Co., New Haven, Conn.

"BOYNTON"—(Steam & Hot Water)—Boynton
Furnace Co., New York

"BRIGHT IDEA"—Gurney Heater Mfg. Co.,
Boston, Mass.

"BRUNELLE"—F. X. Brunelle, Worcester,
Mass.

"BURLEY"—Burley Heater Co., Tyrone, Pa.

"BURNHAM"—Lord & Burnham Co., 1133
B'way, New York

"CALORIC"—Hopson & Chapin Mfg. Co., New
London, Conn.

"CALORIFIC"—Steam & Hot Water, also Sec-
tional—Calorific Heater Co., Allentown, Pa.

"CAMBRIDGE"—Steam—J. H. McLain Co.,
Canton, O.

"CAPITAL"—Broomell's Patented Vapor Sys-
tem—Vapor Heating Co., Phila., Pa.

"CAPITOL"—Hot Water—U. S. Heater Co.,
Detroit, Mich.

"CARTON"—International Heater Co., Utica,
N. Y.

"CATCHPOLE"—A. Catchpole & Co., Geneva,
N. Y.

"CENTURY"—Steam & Hot Water—Kewanee
Boiler Co., Kewanee, Ill.

"CHAMPION"—The Thatcher Furnace Co.,
New York

"COLUMBIA"—"Hennings"—Hot Water—Col-
umbia Heater Co., Paterson, N. J.

"COLUMBIA"—Hot Water—McLain, J. H. Co.,
Canton, O.

"COLUMBIA IMPROVED"—Hot Water—South
Park Foundry & Machine Co., St. Paul,
Minn.

"COLUMBIAN"—Supplee Steam Engine Co.,
Columbia, Pa.

"COMFORT"—Steam & Hot Water—Thatcher
Furnace Co., Newark, N. J.

"COMMONWEALTH"—Hot Water—Walker &
Pratt Mfg. Co., Boston, Mass.

"CORNELL"—Steam—J. H. McLain Co., Can-
ton, O.

"COTTAGE"—H. B. Smith Co., Westfield,
Mass.

"CRAWFORD"—Steam & Hot Water—Walker
& Pratt Mfg. Co., Boston, Mass.

"CRESCENT"—Blake & Andros, Boston, Mass.

"CROWN GEM"—Johnson & Co., New York

"DACK"—Hot Water—Hayes Pump & Planter
Co., Galva, Ill.

"DARTMOUTH"—Steam—McLain, J. & H. Co.,
Canton, O.

"DAVIS"—Steam & Hot Water—Davis Heater
Co., Racine, Wls.

"DEFENDER"—Steam & Hot Water—Kewanee
Boiler Co., Kewanee, Ill.

"DEFIANCE"—Gurney Heater Mfg. Co., Bos-
ton, Mass.

"D. H. L."—Detroit Heating & Lighting Co.,
Detroit, Mich.

"DORIC"—Gurney Heater Mfg. Co., Boston,
Mass.

"DOUBLE CROWN"—Hot Water—Gurney
Heater Mfg. Co., Boston, Mass.

"DRAGON"—Smith & Thayer Co., Boston,
Mass.

"DUNNING CLUB"—N. Y. Central Iron Works
Co., Geneva, N. Y.

"ECONOMY"—International Heater Co., Utica,
N. Y.

| | | |
|--|--|--|
| "EMPIRE"—Empire Heating Co., Tatamy, Pa. | "ILLINOIS"—Tank—Illinois Malleable Iron Co., Chicago, Ill. | "NORTON"—Sectional—Steam & Hot Water—H. M. Norton, Easton, Pa. |
| "EMPIRE"—Steam & Hot Water—Malsh Mfg. Co., Warsaw, Ind. | "IMICO"—Steam & Hot Water—Illinois Malleable Iron Co., Chicago, Ill. | "NOVELTY"—Hot Water—Model Heating Co., Phila., Pa. |
| "EMPIRE"—Steam & Hot Water—Thatcher Furnace Co., Newark, N. J. | "IMPERIAL"—Gaylord & Eltapence, Binghamton, N. Y. | "O. K."—H. B. Smith Co., Westfield, Mass. |
| "EQUATOR"—Walworth Construction & Supply Co., Boston, Mass. | "IMPERIAL"—Utica Heater Co., Utica, N. Y. | "OHIO"—Hot Water—McLain, J. H. Co., Canton, O. |
| "EQUATOR"—Nason Mfg. Co., New York | "IMPERIAL SUNSHINE"—Orr, Painter & Co., Reading, Pa. | "ONTARIO"—Kellogg-Mackay-Cameron Co., Chicago, Ill. |
| "EUREKA"—Eureka Heating & Ventilating Co., Saginaw, Mich. | "INTERNATIONAL"—Luther Mfg. Co., Olean, N. Y. | "OUR OWN"—Hot Water—Broomell, Schmidt Steacy & Co., York, Pa. |
| "EXETER"—Exeter Machine Works, Boston, Mass. | "INVINCIBLE"—John A. Scollay, (Est. of), Brooklyn, N. Y. | "OUR OWN"—Steam & Hot Water—Novelty Iron Co., Canton, O. |
| "FLORAL"—Monroe Foundry & Furnace Co., Monroe, Mich. | "JACKET"—Gurney Heater Mfg. Co., Boston, Mass. | "OUR OWN"—Novelty Iron Co., Canton, O. |
| "FLORENCE"—Columbia Heating Co., Chicago | "KERNAN"—International Heater Co., Utica, N. Y. | "OXFORD"—Steam—J. H. McLain Co., Canton, O. |
| "FLORIDA"—Kellogg-Mackay-Cameron Co., Chicago, Ill. | "KEWANEE"—Steam & Hot Water—Kewanee Boiler Co., Chicago, Ill., & Kewanee, Ill. | "PAGE SECTIONAL"—W. H. Page Boiler Co., Norwich, Conn. |
| "FLORIDA"—Hot Water—Pierce, Butler & Pierce Mfg. Co., Syracuse, N. Y. | "KEWANEE FIRE BOX"—Steam & Hot Water—Kewanee Boiler Co., Kewanee, Ill. | "PALACE KING"—International Heater Co., Utica, N. Y. |
| "FLORIDA IMPROVED"—Steam—Pierce, Butler & Pierce Mfg. Co., Syracuse, N. Y. | "KEYSTONE"—Broomell, Schmidt & Co., Ltd., York, Pa. | "PALACE QUEEN"—International Heater Co., Utica, N. Y. |
| "400 SERIES"—Gurney Heater Mfg. Co., Boston, Mass. | "KEYSTONE"—Hot Water—Keystone Boiler & Radiator Co., Huntington, Pa. | "PARAGON"—Isaac A. Sheppard & Co., 1801 N 4th, Phila., Pa. |
| "F. & W. CO.'S"—Fuller & Warren Co., Chicago, Ill. | "KEYSTONE"—Utica Heater Co., Utica, N. Y. | "PEASE ECONOMY"—International Heater Co., Utica, N. Y. |
| "FURMAN, JR."—Herendeen Mfg. Co., Geneva, N. Y. | "LANSDALE"—Heehner & Sons, Lansdale, Pa. | "PENINSULAR"—Hot Water—Peninsular Stove Co., Detroit, Mich. |
| "GALVA"—Hot Water—Mulford Heater Co., Galva, Ill. | "LA VILLE"—A. A. Griffing Iron Co., Jersey City, N. J. | "PENTECOST"—Allen Fire Dept. Supply Co., Providence, R. I. |
| "GEM"—Hot Water—Ahendroth Bros., N. Y. | "LEADER"—Hot Water—Putnam Foundry & Mach. Co., Putnam, Conn. | "PEQUOT"—Hopson & Chapin Mfg. Co., New London, Conn. |
| "GEM"—Johnson & Co., New York | "LEHIGH"—Steam—McLain, J. H. Co., Canton, O. | "PERFECT"—Kellogg-Mackay-Cameron Co., Chicago, Ill. |
| "GEM TORRID"—W. H. Drake, Newark, N. J. | "LILY"—Rubel & Co., Chicago, Ill. | "PERFECT"—Hot Water—Pierce, Butler & Pierce Mfg. Co., Syracuse, N. Y. |
| "GIANT TORRID"—W. H. Drake, Newark, N. J. | "LITTLE GEM"—Hartford Heating Co., Hartford, Conn. | "PERFECT GEM"—Ahendroth Bros., New York |
| "GOLD SECTIONAL XL"—H. B. Smith Co., Westfield, Mass. | "LITTLE GIANT"—Gihlin & Co., Utica, N. Y. | "PLENTY"—Hot Water—Josephus Plenty, Jersey City, N. J. |
| "GOLD'S SECTIONAL"—H. Mooers Co., Milwaukee, Wis. | "LITTLE GIANT"—Kellogg-Mackay-Cameron Co., Chicago, Ill. | "PLUMMER"—Putnam Foundry & Machine Co., Putnam, Conn. |
| "GORTON"—Gorton & Lidgerwood Co., New York | "LITTLE GIANT"—Hot Water—Pierce, Butler & Pierce Mfg. Co., Syracuse, N. Y. | "POSITIVE"—Hot Water—Monitor Steam Generator Mfg. Co., Phila., Pa. |
| "GOTHIC"—Gurney Heater Mfg. Co., Boston, Mass. | "LORD & BURNHAM"—Hot Water—Lord & Burnham Co., Irvington, N. Y. | "PRINCETON"—Hot Water—J. H. McLain Co., Canton, O. |
| "GROTE"—Sectional—Grote Mfg. Co., Evansville, Ind. | "MAGEE"—Magee Furnace Co., Boston, Mass. | "PRUDENTIAL"—Steam & Hot Water—Prudential Heating Co., Akron, O. |
| "GULF STREAM"—Hot Water—Nason Mfg. Co., New York | "MAHONY"—Mahony Mfg. Co., Troy, N. Y. | "RAPID"—Rapid Heater Co., Grand Rapids, Mich. |
| "GURNEY"—Gurney Heater Mfg. Co., Boston, Mass. | "MASCOT"—U. S. Heater Co., Detroit, Mich. | "REMINGTON"—Remington Machine Co., Wilmington, Del. |
| "HARTFORD"—Hartford Heating Co., Hartford, Conn. | "MERCER"—H. B. Smith Co., Westfield, Mass. | "RICHARDS & SHIPLEY"—Elmira Boiler Wks., Elmira, N. Y. |
| "HARVARD"—Hot Water—J. H. McLain Co., Canton, O. | "MERSHON"—Steam & Hot Water—Mershon Patent Shaking Grate Works, Phila., Pa. | "ROBERTS"—Roberts Machine Co., Collegeville, Pa. |
| "HAXTUN"—Steam & Hot Water—Kewanee Boiler Co., Kewanee, Ill. | "MILLS"—H. B. Smith Co., Westfield, Mass. | "ROSSMORE"—Steam & Hot Water—Thatcher Furnace Co., Newark, N. J. |
| "HECLA"—U. S. Heater Co., Detroit, Mich. | "MODEL"—Kellogg-Mackay-Cameron Co., Chicago, Ill. | "ROYAL"—Hart & Crouse Co., Utica, N. Y. |
| "HENDERSON"—J. C. Henderson & Co., Troy, N. Y. | "MODEL"—Steam—Model Heating Co., Phila., Pa. | "ROYAL"—Royal Steam Heater Co., Gardner, Mass. |
| "HENDERSON - THERMO"—Prizer-Painter Stove & Heater Co., Reading, Pa. | "MONARCH"—Hot Water—McAleenan Boiler Co., Peoria, Ill. | "ROYAL TORRID"—W. H. Drake, Newark, N. J. |
| "HOLLAND"—Hot Water—Holland Radiator Co., Chicago, Ill. | "MONARCH"—Steam & Hot Water—W. H. Page Boiler Co., Norwich, Conn. | "ROYS"—W. E. Roys, Brooklyn, N. Y. |
| "HOPSON"—Hopson & Chapin Mfg. Co., New London, Conn. | "MONITOR"—Monitor Steam Generator Mfg. Co., Laudisville, Pa. | "SANDOW"—Hot Water—J. H. McLain Co., Canton, O. |
| "HORNET"—Steam & Hot Water—W. H. Page Boiler Co., Norwich, Conn. | "MONOGRAM"—Hot Water Heaters—Hopson & Chapin Mfg. Co., New London, Conn. | "SCOLLAY"—John A. Scollay (Est. of), Brooklyn, N. Y. |
| "HOWARD"—International Heater Co., Utica, N. Y. | "MULFORD"—Mulford Heater Co., Galva, Ill. | "SEEVERS"—Seevers Mfg. Co., Oskaloosa, Ia. |
| "HOWATT"—Josephus Plenty, Jersey City, N. J. | "NEW COLUMBIA"—Steam & Hot Water—South Park Fdy. & Machine Co., Giffillan blk. St. Paul, Minn. | "SOLEAU"—E. R. Soleau Co., Newark, N. J. |
| "HUB"—Smith & Anthony Co., Boston, Mass. | "NEW DEPARTURE"—Elmira Heater & Foundry Co., Elmira, N. Y. | "SOLEIL"—Steam & Water—Pierce, Butler & Pierce Mfg. Co., Syracuse, N. Y. |
| "HUMBER"—Hot Water—J. H. McLain Co., Canton, O. | "NEW LILY"—Hot Water—Rubel & Co., Chicago, Ill. | "SOTTER'S"—Sotter Bros., Pottstown, Pa. |
| "HUNTER'S"—Jas. Hunter, Troy, N. Y. | "NEW PROCESS"—Mouat-Squires Co., Cleveland, O. | "SPENCE"—Hot Water—Pierce, Butler & Pierce Mfg. Co., Syracuse, N. Y. |
| "IDEAL"—Steam & Hot Water—American Radiator Co., Chicago, Ill. | "900 SERIES"—Gurney Heater Mfg. Co., Boston, Mass. | "SPENCE"—Kellogg-Mackay-Cameron Co., Chicago, Ill. |
| | "NONPAREIL"—E. Rutzler, New York | |
| | "NORTON"—Bath Foundry & Machine Co., Bath, Pa. | |

AMERICAN RADIATOR COMPANY

MAKERS OF

AMERICAN & IDEAL RADIATORS & BOILERS

TANK WATER HEATERS and a finely selected line of HEATING SPECIALTIES

GENERAL OFFICES, 282, 284, 286 MICHIGAN AVENUE, CHICAGO

| | | | | | | | |
|-------------|--------------|---------|---------------|-----------|-----------|-----------|-------------|
| Chicago | New York | Boston | Philadelphia | Baltimore | Buffalo | Pittsburg | Cincinnati |
| Milwaukee | Indianapolis | Detroit | Cleveland | Atlanta | St. Louis | Omaha | Minneapolis |
| Kansas City | Denver | Seattle | San Francisco | Brantford | London | Paris | Berlin |

"SPENCER"—Hot Water—Spencer Heater Co., Thompson, Pa.
 "SPERL"—Sperl Heater Co., Carbondale, Pa.
 "SPOKANE"—Hot Water—Arnold-Evans Co., Spokane, Wash.
 "STANDARD"—Giblin & Co., Utica, N. Y.
 "STAR"—Harrisburg Mfg. & Boiler Co., Harrisburg, Pa.
 "STAR" (Gas Burner)—Harrisburg Mfg. & Boiler Co., Harrisburg, Pa.
 "STERLING"—Hot Water—Thatcher Furnace Co., Newark, N. J.
 "SUCKER"—Hot Water—Rollyn Hawkins Co., Indianapolis, Ind.
 "SUFFOLK"—Steam—Blake & Andros, Boston, Mass.
 "SUN"—Raymond Mfg. Co., Middletown, Pa.
 "SUNRAY"—J. L. Mott Iron Works, New York
 "SUNSHINE"—Prizer-Painter Stove & Heater Co., Reading, Pa.
 "SUNSHINE"—Iowa Mfg. Co., Oskaloosa, Ia.
 "SUPERIOR"—Utica Heater Co., Utica, N. Y.
 "SWIFT"—Steam & Hot Water—Donegan & Swift, New York
 "TABASCO"—Water—Kewanee Boiler Co., Kewanee, Ill.
 "TAYLOR'S"—Hot Water—William Taylor, St. Louis, Mo.
 "THATCHER"—Sectional Steam & Hot Water—Thatcher Furnace Co., Newark, N. J.
 "THAYER"—Blake & Andros, Boston, Mass.
 "THE LIFE"—Des Moines Mfg. & Supply Co., Des Moines, Ia.
 "TORRENT"—F. H. Falls, Rochester, N. Y.
 "TORRID"—W. H. Drake, Newark, N. J.
 "TOURNAINE"—Kellogg-Mackay-Cameron Co., Chicago, Ill.
 "TRINITY"—Hot Water—McLain, J. H. Co., Canton, O.
 "TROPIC"—Kellogg-Mackay-Cameron Co., Chicago, Ill.
 "TRIUMPH"—Hot Water—Orr, Painter & Co., Reading, Pa.
 "TRIUMPH"—Hot Water & Steam—Craig Reynolds Foundry Co., Dayton, O.
 "TROPIC"—Hot Water—Pierce, Butler & Pierce Mfg. Co., Syracuse, N. Y.
 "TUBULAR"—J. H. McLain Co., Canton, O.
 "TWENTIETH CENTURY"—Steam & Hot Water—Morgan & Co., Chicago, Ill.
 "TWENTIETH CENTURY"—Steam & Hot Water—Twentieth Century Heating & Ventilating Co., Akron, O.
 "UNIQUE"—Gas—Crane, W. M. Co., New York
 "UNIQUE"—Steam & Hot Water—New Milford Foundry & Machine Works, New Milford, Conn.
 "VANCE"—Geneva Boiler Works, Geneva, N. Y.
 "VANDERMAN"—Vanderman Plumbing & Heating Co., Willimantic, Conn.
 "VICTOR"—Richmond Co., Norwich, Conn.
 "VOLCANO"—Water Tube—Harrisburg Mfg. & Boiler Co., Harrisburg, Pa.
 "VOLUNTEER"—Wm. H. Page Boiler Co., Norwich, Conn.
 "VULCAN"—Gas—W. M. Crane Co., New York
 "WALKER"—Steam & Hot Water—Walker & Pratt Mfg. Co., Boston, Mass.
 "WEATHERED"—Hot Water—Thos. W. Weathered's Sons, New York
 "WILKS"—S. Wilks Mfg. Co., Chicago, Ill.
 "WINCHESTER"—Steam & Hot Water—Smith & Thayer Co., Boston, Mass.
 "WINCHESTER"—Smith & Thayer Co., Boston, Mass.
 "WINTHROP"—Hot Water—Dighton Furnace Co., Taunton, Mass.
 "YALE"—Hot Water—J. H. McLain Co., Canton, O.
 "ZENITH"—Coatesville Boiler Works, Coatesville, Pa.
 "ZENITH"—Singer, F. O. & Co., Baltimore, Md.

Heaters (Tank)

Butler Co., Butler, Ind.
 Cone, R. D. & Co., Winona, Minn.
FAIRBANKS, MORSE & CO. (Galvanized Steel), Franklin & Monroe, Chicago, Ill. (See adv. index & branch offices, end of book)
 Forward, W. M. Co. ("Sycamore"), Sycamore, Ill.
 Gale Mfg. Co., Albion, Mich.
 Hunt, Helm, Ferris & Co. ("Star," "Red Hot," "Standard," "Harvard," "Cracker Jack," "Perfection," "Black Jack" & "Iron King"), Harvard, Ill.
 Kelly Foundry & Machine Co., Goshen, Ind.

KEWANEE BOILER CO., Kewanee, Ill., & 169 E Lake, Chicago, Ill. (See adv. index, end of book)
 Ohio Implement Co. (Cast Iron), Bowling Green, O.

Heaters (Tar)

Contractors' Tool Co., 704 Arch, Phila., Pa.
 Evans, F. H. Co., 596 Kent av., Brooklyn, N. Y.
KOVEN, L. O. & BRO., 50 CHIN, New York. (See adv. index, end of book)
 Littleford Bros., 453 E Pearl, Cinn., O.
 Lyman, W. C., 49 Michigan, Chicago, Ill.
 Turl's, Jno. Sons (Inc.), 26 Cortlandt, New York. Works: Newburgh, N. Y.

Heaters (Tire)

(See Furnaces, Tire Heating)

Heaters (Water, Automatic)

American District Steam Co. (Automatic, for Heating Water Direct from Steam Lines), Lockport, N. Y.
 Beilman, W. E. ("Seamaus"), Buffalo, N. Y.
 Gilbert & Barker Mfg. Co. ("Springfield" Coil Gas), Springfield, Mass.
 Gordon, A. D. ("Duplex," for Domestic Use), Buffalo, N. Y.
 Hammond-Hamberger Co. ("Niagara" Automatic), Silver Creek, N. Y.
HAYDEN & DERBY MFG. CO. ("H. D.") Noiseless for Heating Liquids by Direct Steam), 85, 87 & 89 Liberty, New York, & 22, 24 & 26 S Canal, Chicago, Ill. Works, 1 Watson, Boston, Mass. (See adv. index & branch offices, end of book)
 Pittsburgh Water Heater Co., Pittsburgh, Pa.
 Rund Mfg. Co. (Gas), 340 2d av., Pittsburgh, Pa.
 Standard Heater Co., Power bldg., Pittsburgh, Pa.

Heaters (Water, Bath or Tank)

Abendroth Bros. ("York," "Little Gem"), 109 Beekman, New York
 Adams Steel & Wire Works, Joliet, Ill.
AMERICAN RADIATOR CO. ("Ideal" Tank Heater), General Office, 282 Michigan av., Chicago, Ill. (See adv. on preceding page; branch offices, end of book)
 American Stove Co. ("Jewell," "Reliable" and "Monarch"), St. Louis, Mo., & 72 Lake, Chicago, Ill.
 Beilman, W. E. ("Seamans" Automatic), Buffalo, N. Y.
 Challenge Mfg. Co., S Norwalk, Conn.
 Clark, Geo. M. & Co., 72 Lake, Chicago, Ill.
 Crane, Wm. M. Co. ("Unique" and "Vulcan"), 1133 Broadway, N. Y.
 Dayton Supply Co., Dayton, O.
 Detroit Stove Works ("Paragon" Tank), Detroit, Mich.
 Eagle Water Heater Co. ("Eagle"), 128 6th av., New York
 Eclipse Gas Stove Co. (Gas), Rockford, Ill.
 Eynon-Evans Mfg. Co. ("Noiseless"), 1519 Clearfield, Phila., Pa.
 Flour Mill Machinery Co., Battle Creek, Mich.
 Fuller & Warren Co., Troy, N. Y.
 Gilbert & Barker Mfg. Co. (Springfield, Coil Gas), Springfield, Mass.
 Gurney Heater Mfg. Co., 188 Franklin, Boston, Mass.
 Haberling, Chas. ("Columbian"), Columbus, O.
HAYDEN & DERBY MFG. CO., The ("H. D.") Noiseless for Heating Liquids by Direct Steam), 85, 87 & 89 Liberty, New York, N. Y., & 22, 24 & 26 S Canal, Chicago, Ill. Works, 1 Watson, Boston, Mass. (See adv. index & branch offices, end of book)
 Hitchings & Co. (Bath Heaters), 1170 B'way, Hollands Mfg. Co., Erie, Pa. New York
 Homestead Heater & Mfg. Co. ("Homestead"), Homestead, Pa.
 Huber, Henry Co. ("Gegenstrom"), 244 5th av., New York
 Humphrey Mfg. & Plating Co. (Gas, Instantaneous), Kalamazoo, Mich.
 Ideal Mfg. Co., Detroit, Mich.
 Illinois Malleable Iron Co. ("Illinois" Tank), 30 W Monroe, Chicago, Ill.
 Instantaneous Water Heating Co. (Instantaneous, "Douglas," "Acme" & "Flush"), 155 S Jefferson, Chicago, Ill.
 Iron Clad Mfg. Co. (Gas & Gasoline), 204 Varet, Brooklyn, N. Y.
 Jackson Flour Mill Machinery Mfg. Co., Jackson, Mich.
 Kahn, F. & L., & Bros. (Gas), Hamilton, O.
 Kenwood Automatic Water Heater Co., Milwaukee, Wis.

KEWANEE BOILER CO., Kewanee, Ill., & 169 E Lake, Chicago, Ill. (See adv. index, end of book)
 Knight & Jillson Co. ("Holden," Coal and Gas), Indianapolis, Ind.
 Large, W. H. & Co. ("Success," "Jaxon," "Mascott," Gas & Gasoline), Detroit, Mich.
 Lawler Water Feed & Damper Regulator Co. (Gas), 158 Wooster, New York
 Lawson Mfg. Co. (Gas), Homestead, Pa.
 Lord & Burnham Co. (Bath Heaters), 1133 B'way, New York
 McDowell Mfg. Co. ("Gable"), 541 Wood, Pittsburgh, Pa.
 Milwaukee Gas Stove Co. ("Perfection," Gas), Milwaukee, Wis.
 Monarch Water Heater Co. ("Instantaneous"), 1342 River av., Allegheny, Pa.
 Mott, J. L. Iron Works, 118 5th av., New York
 Mustee Bros. ("Marvel"), 204 Cedar av., Cleveland, O.
 Noupereil Mfg. Co., 322 Post, San Francisco, Cal.
 Novelty Iron Co. ("Our Own," Tank & Laundry, etc.), Canton, O.
 Odin Stove Mfg. Co. (Gas), Erie, Pa.
 O'Neill Water Heater Mfg. Co. (Instantaneous), Peoria, Ill.
 Patterson, T., San Luis Obispo, Cal.
 Peer Water Heater Co. (Inc.) ("Peer"), 39 State, Chicago, Ill.
 Peerless Stove & Range Co. (Gas), Columbus, Ohio
 Phillips Gas Stove Works (Gas), 420 E. 8th, Cincinnati, O.
 Pittsburgh Water Heater Co., Pittsburgh, Pa.
 Rapid Heater Co. ("Rapid"), Grand Rapids, Mich.
 Ribbon Water Heating Co. (Hearst bldg.), San Francisco, Cal.
 Sadtler, J. P. B. ("Heller"), Baltimore, Md.
 Schlferle, Fredolin ("Gem"), 1224 S. Broadway, St. Louis, Mo.
 Schneider Closet & Heater Co. (Bath), Ann Arbor, Mich.
 Schneider & Trenkamp Co., Cleveland, O.
 Solar Heater Co. ("Improved Climax"), Los Angeles, Cal.
 Stamford Gas Stove Co. (Gas), Stamford, Conn.
 Standard Heater Co. ("Standard" & "Leader" Instantaneous Automatic), Imperial Power bldg., Pittsburgh, Pa.
 Stephenson Mfg. Co. ("Zenith," Automatic Instantaneous), 209 Sandusky, Allegheny, Pa.
 Sterling Instantaneous Water Heater Co., Allegheny, Pa.
 Stevenson & Bro. ("Dewey"), New Castle, Pa.
 Stevenson & Co., 601 S Caroline, Baltimore, Md.
 Taylor Burner & Electroplating Co. (Kinyc'est"), 804 Duquesneway, Pittsburgh, Pa.
 Varwig Mfg. Co. ("Crown" Automatic), Cincinnati, O.
 Vogelgesang Furnace Co. ("Prize Cylinder"), Columbus, O.
 Walker & Pratt Mfg. Co., 31 Union, Boston, Mass.
 Weiskittle, A. & Son ("Fire King" Gas), Aliceanna & Washington, Baltimore, Md.
 Western Malleable & Grey Iron Mfg. Co. (Tank), Milwaukee, Wis.
 White Mfg. Co. (Gas), 192 Michigan, Chicago, Ill.
 Wlikes, S. Mfg. Co., 35th c. Shields av., Chicago, Ill.
 Wood, Jno. Mfg. Co. ("Daisy"), Conshohocken, Pa.
 Woodworth-Evans Co. ("Economy"), 112 Wood, Pittsburgh, Pa.
 Youngstown Range & Stove Co., Youngstown, Ohio.

Heaters (Water Coil)

Pittsburg Water Heater Co. (Copper Coil), Pittsburgh, Pa.
 Rund Mfg. Co., 340 2d av., Pittsburgh, Pa.
 Standard Heater Co., Imperial Power bldg., Pittsburgh, Pa.

Heaters (Water, Instantaneous)

Adams Steel & Wire Works, Joliet, Ill.
 American Stove Co. ("Jewell" Gas), 414 N 6th, St. Louis, Mo.
 Crane, W. M. Co., 1133 Broadway, N. Y.
 Dayton Supply Co. (Gas or Gasoline), Dayton, O.
 Detroit Stove Works ("Detroit," "Jewell"), Detroit, Mich.
 Eagle Water Heater Co. ("Eagle"), 128 6th av., New York
 Gilbert & Barker Mfg. Co. (Springfield), Springfield, Mass.
 Harris, J. Co. ("Harris"), 1232 E 3d, Cleveland, O.

Hoffman Heater Co. ("Hoffman" Automatic), Lorain, O.
 Humphrey Mfg. & Plating Co., Kalamazoo, Mich.
 Instantaneous Water Heating Co. ("Douglas," "Acme," "Flush"), 155 S Jefferson, Chicago, Ill.
 Kenwood Automatic Water Heater Co., Milwaukee, Wis.
 Knight & Jillson Co. (Holden" Coal or Gas), Indianapolis, Ind.
 Lawler Water Feed & Damper Regulator Co. ("Lawler's"), 473 W B'way, New York
 Lawson, L. S. Mfg. Co., Homestead, Pa.
 McDowell Mfg. Co. ("Gable"), 541 Wood, Pittsburg, Pa.
 Miller Specialty Co. (Automatic), North Tonawanda, N. Y.
 Monarch Water Heater Co., 306 Wood, Pittsburg, Pa.
 Morrison-Kretschmer Co. ("Morrison"), Duquesne, Pa.
 Mustee Bros. ("Marvel"), 204 Cedar, Cleveland, Ohio
 O'Neill Water Heater Mfg. Co. (Gas), Peoria, Ill.
 Nonparell Instantaneous Heater Co., San Francisco, Cal.
 Peerless Kitchen Boiler & Supply Co., 35 Randolph, Chicago, Ill.
 Phillips Gas Stove Works ("Standard"), 420 E. 8th, Cincinnati, Ohio
 Pittsburg Water Heater Co., Pittsburg, Pa.
 Ruud Mfg. Co. ("Thermal" Automatic Gas), 340 2d av, Pittsburg, Pa.
 Sadtler, J. P. B. & Co. ("Heller"), 813 S. Howard, Baltimore, Md.
 Schneider Bath Heater Co., Ann Arbor, Mich.
 Schneider & Trenkamp Co., Cleveland, O.
 Seamans, Irving M. (Automatic Gas), 353 7th, Buffalo, N. Y.
 Standard Heater Co. (Automatic), Imperial Power bldg, Pittsburg, Pa.
 Stephenson Mfg. Co. ("Zenith Automatic"), 209 Sandusky, Allegheny, Pa.
 Sterling Instantaneous Water Heater Co., Allegheny, Pa.
 Varwig Mfg. Co. ("Crown" Automatic), Cincinnati, O.
 Wilkes, S. Mfg. Co., 53 Clinton, Chicago, Ill.
 Worcester Instantaneous Water Heater Co. (and Gas Stove Combined), Worcester, Mass.

*Heaters (Water, Noiseless)

AMERICAN INJECTOR CO., Congress
 cor Seventh, Detroit, Mich. (See adv. index, end of book)

Heating Apparatus (Hot Blast)

American Blower Co. (Hot Blast Apparatus), 1400 Russell, Detroit, Mich.
ANDREWS & JOHNSON CO., 256
 Washington boul., Chicago, Ill. (See adv. on following page)
 Baker, Smith & Co., 81 W Houston, N. Y.
 Buffalo Forge Co., Buffalo, N. Y.
 Exeter Machine Works, Exeter, N. H.
 FullerWarren Co., Milwaukee, Wis., & 86 Lake, Chicago, Ill.
 Fuller & Warren Co., Troy, N. Y.
 Garden City Fan Co., Fisher bldg, Chicago, Ill.
GREEN FUEL ECONOMIZER CO.,
 General Office & Works, Matteawan, N. Y., & 1218 West Street bldg, New York. (See adv. index & branch offices, end of book)
 Hartford Blower Co., Hartford, Conn.
 Link, E. M. Machinery Co., Erie, Pa.
 Massachusetts Fan Co., Waterstown, Mass.
NATIONAL BLOWER WORKS, 17th
 & St. Paul av, Milwaukee, Wis. (See adv. below)

New York Blower Co., Chicago, Ill. Factory: Bucyrus, O.
 Prentice, L. H. Co., 34 Sherman, Chicago
 St. Louis Blower & Heater Co., 1628 N 9th, St. Louis, Mo.
 Scott, Robert, 1716 Ludlow, Phila., Pa.
 Sturtevant, B. F. Co., Hyde Park, Mass.

*Heating Coils (For Steam or Hot Water Heating)

GREEN FUEL ECONOMIZER CO.,
 Matteawan, N. Y., & 1218 West Street bldg, New York. (See adv. index & branch offices, end of book)

Heating Contractors (Steam & Hot Water)

All Plumbers who do Steam and Hot Water Heating will be found in Plumbers, Gas & Steam Fitters. They are indicated with a dagger (†).

Firms under this heading do Steam & Hot Water Fitting only.

ALABAMA.

(See also Plumbers, Gas & Steam Fitters marked with a (†) dagger)

MONTGOMERY—Alabama Machinery & Supply Co.

ARKANSAS.

(See also Plumbers, Gas & Steam Fitters marked with a (†) dagger)

CALIFORNIA.

(See also Plumbers, Gas & Steam Fitters marked with a (†) dagger)

LOS ANGELES—Cass-Smurr-Damerel Co.
 Hough, E. D.

SAN FRANCISCO—Day, Thos. Co., 725 Mission
 Holbrook, Merrill & Stetson, 225 Market
 Morgan, W. & Co., Crossley bldg
 Mangrum & Otter (Inc.)
 Montague, W. W. & Co., 309 Market
 Wilson, Wm. F. Co., 328 Stockton

COLORADO.

(See also Plumbers, Gas & Steam Fitters marked with a (†) dagger)

DENVER—Backus Heating Co., 415 17th
 Bradbury, George L., 1759 Stout
 Chavey, Emile F., 1010 18th
 Fielding, Joseph C., Boston bldg
 Goff, F. C. & Co., Temple Court
 Michael Heating Co., 502 15th
 Pfeiffer, O. P., 433 15th
 Reilly, C. J., 1425 Curtis
 Sanfords Furnace Co., 1732 Welton

CONNECTICUT.

(See also Plumbers, Gas & Steam Fitters marked with a (†) dagger)

BRIDGEPORT—Engineering Supply Co.
 Wellington & Miller, 167 Stratford av
HARTFORD—Barrett & Wall
 Hartford Heating Co., 278 Asylum
 Murray, James T.

NEW BRITAIN—Aetna Heating Co.
NEW HAVEN—(See Plumbers, Gas & Steam Fitters marked with a (†) dagger.)

NEW LONDON—Hopson & Chapin Mfg. Co.
NORWICH—Barstow, J. P. & Co., 23 Water
PUTNAM—Putnam Foundry & Machine Co.
WATERBURY—(See Plumbers, Gas & Steam Fitters marked with a (†) dagger.)

DELAWARE.

(See also Plumbers, Gas & Steam Fitters marked with a (†) dagger)

DOVER—Forbes & Forbes

WILMINGTON—(See Plumbers, Gas & Steam Fitters marked with a (†) dagger.)

DISTRICT OF COLUMBIA.

(See also Plumbers, Gas & Steam Fitters marked with a (†) dagger)

WASHINGTON—Beaton, C. N., 920 N C, S. E.
 Biggs Heating Co., 1410 Penna. av, N. W.
 Butler, Chas. J., 913 G, N. W.
 Febrey, E. J. & Co., 617 E, N. W.
 Grahe, Henry, 1119 10th, N. W.
 Hendley, Jas. W., Corcoran bldg
 Higgins, Walter, 910 Mass. av, N. W.
 Hubbard Heating Co., 918 F, N W
 Johnson & Morris, 509 11th, N. W.
 McCuen, Wm. H. & Co., 1024 Conn. av, N. W.

McCurdy, James P., 930 F, N. W.
 Seltzer Heating Co., 1413 G, N. W.
 Zellers & Co., 1333 14th, N. W.

GEORGIA.

(See also Plumbers, Gas & Steam Fitters marked with a (†) dagger)

ATLANTA—Cotton States Belting & Supply Co.
 Warlick & Kennedy Mfg. Co., 59 E Alabama
MACON—Schofields, J. S. Sons Co.
SAVANNAH—Rourke, Jno. & Sons.

ILLINOIS.

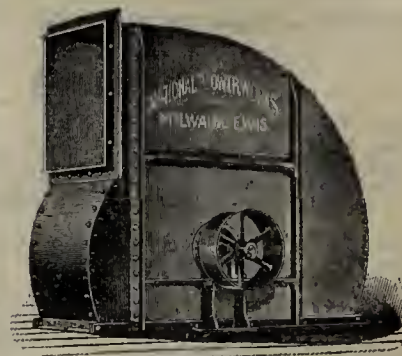
(See also Plumbers, Gas & Steam Fitters marked with a (†) dagger)

BLOOMINGTON—American Foundry & Furnace Co. (Hot Air & Steam)

Keiser-Van Leer Co.
CHICAGO—Acme Heating Co., 357 Dearborn
 Andrews Heating Co., 132 Lasalle
ANDREWS & JOHNSON CO., 256
 Washington boul. (See adv. on following page)

Baker & Smith Co., 171 Washington
 Brady & Co., 99 N Randolph
 Brockway, Jno. S., 119 Lasalle
 Brown, N. B. & Co., 1373 W Lake
 Cleave, Joseph, 5217 Lake av
 Consolidated Engineering Co., 38 W Jackson
 Cook & Chick Co., 255 Kinzie boul
 Cragin, M. J., 285 43d
 Davis Construction Co., 41 Dearborn
 Deppman, A. & Co., 212 Illinois
 Dilzer, Fred C., 48 Dearborn
 Dixon Steam System Co., 169 S Canal
 Dows Heating Co., 22 5th av
 Drexel Heating Co., 184 E 43d
 Evans, Almirall & Co., Monadnock blk
 Glennon, Charles & Co., 30 Lasalle
 Gordon, Robert Co., 35 W Monroe
 Gorton & Lidgerwood Co., Old Colony bldg
 Graves, W. B., 45 Lake
 Graves & Scholl, 202 Illinois
 Herlihy, J. J., 113 Van Buren
 Ideal Heating Co., 6312 Wentworth av
 Kehm Bros. Co., 19 N State
 Kellogg-Mackay-Cameron Co., Mich av c 12th
 Kenwood Heating Co., 4713 Cottage Grove
 Kirk, George H., 6612 Wentworth av
 Lamb, F. W. Co., 259 E Kinzie
 Lees, Wm., 47 W. Wash.

NATIONAL BLOWER WORKS,
Manufacturers of
Fans, Engines and Steam Coils
 FOR HEATING, VENTILATING and DRYING. Mechanical Draft Apparatus.
MORRIS PATENT GRAIN DRIER.
17th St. and St. Paul Ave., MILWAUKEE, WIS.
 WRITE FOR CATALOGUE.



Lewis & Kitchen, 435 Wabash av
Longtin & Co., 211 N St. Louis av
McDonald, Edw. S., 311 S Central Park av
McDonough, E. J. & Co., 230 Kinsey
McLeod Co., 73 Fulton
Maginn & Bradley Co., 108 Dearborn
Mulherin & Co., 65 W Van Buren
Norton, F. J., 8 N State
Olson, J. H., 649 E 47th
Pearce, W. H. & Co., 269 Dearborn
Peckham, Harry, Jr., 27 N Canal
Peterkin, Jno., 98 La Salle av
Phillips, Getschow Co., 184 Indiana
Pope, Wm. A., 79 Lake
Prentice, L. H. Co., 24 Sherman
Purves Heating Co., 215 5th av
Rigby & Clansky, 32 Milwaukee av
Simmons, C. H., 218 La Salle
Sloan, William E., 40 Dearborn
Spear & Hansen Co., 58 W Randolph
Stock, C. A., 42 River
Sullivan, William, 217 Kinzie
Thomas & Smith, 17 S Carpenter
Twentieth Century Heating Co., 162 W Van
Walters, W. D., 974 E 76th Buren
Webster, Warren & Co. (Webster's System),
Monadnock blk
Western, Paul Steam System Co., 281 Dearborn

Wilks, S. Mfg. Co., 35th & Shields av
ELGIN—Manard, A. P. (also Rockford, Ill.)
GALESBURG—Murphy Bros. & Anderson
GIBSON CITY—Gibson Iron Works
JOLIET—Meers, R., 205 Jefferson
MOLINE—Moline Heating & Construction Co.
ROCKFORD—America Heating Co.

INDIANA.

(See also Plumbers, Gas & Steam Fitters
marked with a (†) dagger)

ANDERSON—Anderson Foundry & Machine
Works
BRAZIL—Crawford & McCrimmon Co.
EVANSVILLE—Carmody, J. D., 213 Locust
O'Donnell, Jno., 513 Sycamore
FORT WAYNE—National Mill Supply Co.
GREENCASTLE—†Greencastle Foundry & Machine Co.

INDIANAPOLIS—Automatic Heating Co. (Paul
Johnson, W. H. & Son Co. System)
Kruse & Dewenter
Mast, George J. Heating Co.
Simon, Louis P.
Woolen & Callon

IOWA.

(See also Plumbers, Gas & Steam Fitters
marked with a (†) dagger)

DES MOINES—Des Moines Mfg. & Supply Co.
OSKALOOSA—(See Plumbers, Gas & Steam
Fitters marked with a (†) dagger.)

KENTUCKY.

(See also Plumbers, Gas & Steam Fitters
marked with a (†) dagger)

LOUISVILLE—Clegg, F. A. & Co., 237 3d
McWilliams, Joseph & Co., 719 W Market
NEWPORT—Fennel, George H. & Co.
OWENSBORO—Guenther, Harry & Bro.
Southern Iron Works

LOUISIANA.

(See also Plumbers, Gas & Steam Fitters
marked with a (†) dagger)

MONROE—Sanders, John G.
NEW ORLEANS—Gibbens & Stream, 213 Canal
Hauptman & Loeb Co. (Ltd.), 222 S Peters
Louisiana Boiler & Sheet Iron Works, 2344
Euphrosine
Murphy, Jno. H., 635 Magazine
Payne & Joubert, 423 Carondelet
SHREVEPORT—Vondenbaumen-Eastham Co.
(Ltd.)

MAINE.

(See also Plumbers, Gas & Steam Fitters
marked with a (†) dagger)

PORTLAND—Carman, W. W., 78 Union
Fels, Arthur B., 60 Union
Griffen, R. J., 106a Exchange
Moulton, A. H., 75 Union

MARYLAND.

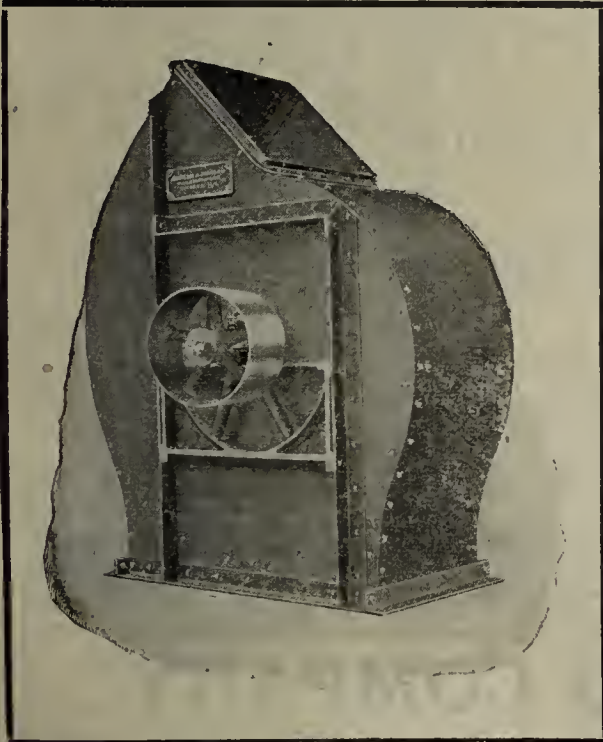
(See also Plumbers, Gas & Steam Fitters
marked with a (†) dagger)

BALTIMORE—Basshor, T. O. Co., 28 Light
Crook-Horner Co., 303 N Howard
Enterprise Steam & Hot Water Heating Co.,
107 E Lombard
Fadum, Fred'k, 408 W German
Hill, Walter E. Co., 203 N Liberty
Monitor Steam Generator Mfg. Co., Fayette
c Park av
Myer & Moran, 327 N Holliday
New York Steam Fitting Co., 7 Clay
Stebbins, Wallace & Sons, Charles c Lom-
bards, Charles, 316 Fremont av
HAGERSTOWN—†Hagerstown Heating Co.

MASSACHUSETTS.

(See also Plumbers, Gas & Steam Fitters
marked with a (†) dagger)

BOSTON—Bay State Heating Co., 112 Portland
Boston Furnace Co., 6 Portland
Boston Heating & Lighting Co., 24 India sq
Bradlee & Chatham Co., 121 Beverly
Braman, Dow & Co., 239 Causeway
Brown, Rufus G., 6 Portland
Cleghorn Co., 54 Batterymarch
Coffin, Isaac Co., 52 Sudbury
Dodge, Edwin L., 6 Friend
Duncan, Alex. & Co., 37 Union
Dwyer, James P., 27 Cambria
English & Flett (Inc.), 226 Congress
Falls Mfg. Co., 29 Central
Felton-Turner Heating Co., 34 Warren
Franklin, A. B., 62 High
Gallison, W. H. Co. (High Pressure), 36
Oliver
Ingalls & Kendrickson, 80 Sudbury
Kohler Furnace & Steam Heating Co., 1342
Columbus av, Rox.
Lovering, Robert H., 24 Warren, Rox.
Lumsden & Van Stone Co., 69 High
Lynch & Woodward, 28 Beach
Merrill Co. (High Pressure Piping), 19 Pearl
Oliver & Howland Co. (of Springfield, Mass.)
Paul System Co., Tremont bldg
Pierce, Butler & Pierce Mfg. Co. (of Syra-
cuse, N. Y.), 50 Oliver



STEEL PLATE BLOWERS

FOR

HEATING
VENTILATION
INDUCED DRAFT
DRYING, ETC.

ANDREWS & JOHNSON Co.,
CHICAGO, ILL.

Rice, F. I. & Bennett, 72 Portland
Richardson & Clement, 20 Union
Sanborn, A. A., 18 Post Office sq
Smith & Anthony Co., 48 Union
Thurston, F. W., 197 High
Trask, H. D. Co., 76 Sudbury
Walworth Cons. & Supply Co., 100 Pearl
Webster, Warren & Co., 24 Milk
FAIRHAVEN—Fairhaven Iron Foundry Co.
FALL RIVER—Fall River Steam & Gas Pipe Co., 197 Pleasant

Kelly, Edward, 125 Central
GARDNER—Royal Steam Heater Co.
GLOUCESTER—Richardson, Nathan Sons
Stodart, A. P. & Co.
HAVERHILL—(See Plumbers, Gas & Steam Fitters marked with a (†) dagger.)
HOLYOKE—(See Plumbers, Gas & Steam Fitters marked with a (†) dagger.)
LOWELL—Middlesex Machine Co.
MILFORD—Damon, J. F.
NEW BEDFORD—Babbitt, Wood & Co.
New Bedford Boiler & Machine Co.
NORTH ADAMS—(See Plumbers, Gas & Steam Fitters marked with a (†) dagger.)
PITTSFIELD—(See Plumbers, Gas & Steam Fitters marked with a (†) dagger.)
PLYMOUTH—Holmes, Charles T., 2d
SALEM—Patten, Paul B., 78 Lafayette
SPRINGFIELD—Clapp, Z. C.
Estabrook, George R.
Flint, H. E. & Co.
McClean, George H.
Morris & Maloney

WYCKOFF & LLOYD CO., 35 Lyman. (See adv. below)
TAUNTON—Dighton Furnace Co.
WESTFIELD—Smith, H. B. Co.
WOBURN—Buell, Jas. F., 10 Buell pl
WORCESTER—Braman, Dow & Co., 7 Wash'n
Brunelle, F. X., 10 Coburn av sq
Burke, Thos. M., 7 State
Burlingame, A. Co.
Callahan, J. W. & Son
Central Supply Co., 35 Waldo
Hawes, Edwin Co., 17 Vine
Houghton, F. O. & Co., 93 Foster
Lamotte, J. G. & Co., 138 Main
Morse, A. H., 152 Institute rd
Sinclair Co., 28 Pearl
Skaen, Jno. J., 41 Pearl
Washburn & Garfield Mfg. Co.
Whitworth Heating Co., 22 Pleasant

MICHIGAN.

(See also Plumbers, Gas & Steam Fitters marked with a (†) dagger)
BAY CITY—Bialy Hardware & Supply Co.
Jennison Hardware Co.
Wilson, Wanless & Co.
DETROIT—Acme Heating & Ventilating Co., 146 Beaubien
American Blower Co., 1400 Russell
Bolton Heater Co., 85 Chene
Detroit Heating & Lighting Co., Wight nr
Detroit Shipbuilding Co., 72 Orleans Leib
Lewis, Henry B., 45 Jos. Campau av
Pratt, Stephen, Becher av c M. C. R. R.
Smith, Peter Heater Co., 332 Rivard
Turner, W. C., 441 Hubbard av
GRAND RAPIDS—(See Plumbers, Gas & Steam Fitters marked with a (†) dagger.)
MONROE—Monroe Foundry & Furnace Co.
SAGINAW—Eureka Heating & Ventilating Co.

MINNESOTA.

(See also Plumbers, Gas & Steam Fitters marked with a (†) dagger)
DULUTH—(See Plumbers, Gas & Steam Fitters marked with a (†) dagger.)
FERGUS FALLS—Fergus Iron Works
MANKATO—Mankato Mfg. Co.

MINNEAPOLIS—Andrews Heating Co., 203
Broadbent, R. H., 916 S 6th Hennepin av
Gray, W. I. & Co., 704 S 5th
Pond & Hasey Co., 231 5th av, S.
Porter, W. F. & Co., 521 2d av, S.
Saxton Heating Co., 405 6th av S
ST. PAUL—McGeary, G. M., 156 E 3d
Roberts-Goss Co., 4th c Jackson
Sparr, E. Edw., 329 Jackson
WINONA—(See Plumbers, Gas & Steam Fitters marked with a (†) dagger.)

MISSOURI.

(See also Plumbers, Gas & Steam Fitters marked with a (†) dagger)
KANSAS CITY—Kansas City Furnace Co., 618 Prospect
Kausas City Steam & Hot Water Heating
Lewis & Kitchen, 901 B'way Co.
Western Paul Steam System Co., Postal
Tel. bldg
ST. LOUIS—Abadie, E. H. & Co., 420 Olive
Bosley, E. M., Merchants-Laclede bldg
Bradley Heating Co., 3834 Olive
Branch, Christopher, 4830 Greer av
Cahill, Swift Mfg. Co., 20 S 12th
Cozeus Heating & Construction Co., 3831
Crowder Bros., 408 Olive Finney av
Hughes, Jno. B. Heating Co., 1234 Clark av
Kupferle Bros. Mfg. Co., 504 N 2d
Missouri Heating & Construction Co., 16 S
Modern Heating Co., 313 Chestnut 12th
Ryan, J. D. Heating & Ventilating Co., 410 S 7th
Urbauer, Atwood Heating Co., 106 S 12th
WEBB CITY—Webb City Iron Works

NEW HAMPSHIRE.

(See also Plumbers, Gas & Steam Fitters marked with a (†) dagger)
FRANKLIN FALLS—Kidder Machine Co.
KEENE—Hubbard, H. W.
MANCHESTER—Pike & Heald Co.

NEW JERSEY.

(See also Plumbers, Gas & Steam Fitters marked with a (†) dagger)
BARTLEY—Bartley, Wm. & Son
CAMDEN—American Steam Heating Specialty
Camden Heating Co., Point c Elm
Lonsberry, H. C., 539 Arch
Webster, Warren & Co., Point c Elm
JERSEY CITY—Schroder, F. P., 307 Grand
NEWARK—Barry & Co., 4 Court
Cryer, T. B. & Co., 249 High
Denny Bros., 45 Mechanic
Drake, W. H., 36 Clinton
Felsberg Heating Co., 398 S Orange av
Kellogg, N. S., 763 Broad
Reed, Jno. L., 356 Mulberry
Robinson, Ivan S., 225 6th av
Seymour, David C., 49 Lawrence
PATERSON—(See Plumbers, Gas & Steam Fitters marked with a (†) dagger.)
TRENTON—Baker, Wm. H. (Factory Work, etc.)

NEW YORK.

(See also Plumbers, Gas & Steam Fitters marked with a (†) dagger)
ALBANY—Albany Brass & Iron (High Pressure)
Bates, E. P.
Warren, James D.
BINGHAMTON—Innes & Demarest Heating
Co., 34 Commercial av
Shapley & Wells, 118 Washington
BROOKLYN—(See New York City, Borough of Brooklyn)
BUFFALO—(See Plumbers, Gas & Steam Fitters marked with a (†) dagger.)
GENEVA—New York Central Iron Works Co.

GREENPORT—Hedges, Samuel
LOCKPORT—American District Steam Co.
(Holly System of Direct & Exhaust Steam)
NEWARK—New Light, Heat & Power Co.
NEWBURGH—Smith, A. C. & Co.

Borough of Brooklyn.

BROOKLYN—Bedford Heating Co., 1288 Fulton
Curtin, Wm. H. Mfg. Co., 333 Adams
Jacobs, Geo. P. & Co., 276 S 9th
O'Brien, Edw. J., 340 B'way
Philips, Doup & Co., 56 Pearl
Roys System Co., 1010 Gates av
Scollay, John A., 76 Myrtle av
Tuttle & Bailey, 83 N. 10th

Boroughs of Manhattan & Bronx

NEW YORK—Abbott's, M. Sons, 137 8th av
Automatic Heating Co. (Exhaust Steam, etc.), 17 Battery pl
Backus, P. & Son, 133 W 25th
Bailey, Wm. R., 127 Reade
Baker, Smith & Co., 483 W B'way
Baker, Wm. C. Heating & Supply Co.
(House, Car Heating, etc.), 143 Liberty
Baldwin Engineering Co., 107 W 17th
Blake & Williams, 211 W 20th
Bouner, R. J., 425 W 42d
Boyd Equipment Co. (Heating & Ventilating), 90 West
Builders' Heating Co., 163 W 29th
Clarke, John D. Sons, 276 Water
Crooke Heating & Ventilating Co., 10 Bar-
Cryer, Albert A., Fuller bldg clay
Currau, James Mfg. Co., 512 W 36th
Dewey Engineering Co., 89 Centre
Dobson, Frank, 319 E 53d
Duff, P. J. & Co., 201 E 33d
Eccles, John L. Co., 117 Mercer
Evans, Almirall & Co., 281 Water
Francis Bros. & Jellett (Inc.), 47 E. 18th
Gibbons, Jno. V., 133 Greenwich
Gillis & Geoghegan, 537 W B'way
Graff Furnace Co., 208 Water
Greason Mfg. Co., 108 W 99th
Haguey, Frank Co., 1133 B'way
Hankin, Johr & Bro., 550 W 25th
Hassett & Peyton, 100 Maiden lane
Hitchings & Co., 1170 B'way
Hodkinson & Co., 537 Manhattan av
Johnson & Co., 104 John
Johnson & Morris, 30 W 13th
Kay, W. H. Co., 244 Fulton
Kelsey Heating Co., 156 5th av
Kirk, L. G., 419 Lex. av
Leslie Bros., 2768 B'way
Lord & Purnham Co., 1133 B'way
McGonagle, Arthur, 136 Liberty
McKnight, Chauncey P., 241 W 125th
Mead, Josiah H., 41 E 21st
Merritt, Jas. H., 48 Cliff
Miller, Henry, 630 E 144th
Model Heating Co., 78 Centre
Mulhern Steam Heating Co., 401 W 59th
Muller & Vultee, 9 N Moore
Nason Mfg. Co., 71 Beekman
Neal's, John Sons, 161 E 84th
New York Steam Fitting Co., 147 Lafayette
Olaney, William J., 177 Christopher
Paul System Co. of New York, Fuller bldg
Pollock, Alex. Co., 203 West
Peterson Heating Co., 634 E 147th
Prentice, L. H. Co., 114 Liberty
Raisler Heating Co., 17 E 22d
Ransom, Stephen, 402 West
Roberts, Geo. I. & Bros. (Inc.), 471 4th av
Rossman & Bracken Co., 11 E 22d
Rutherford Heating Co., 42 W. 67th
Rutzler, E., 127 White
Saraya Engineering Co., 320 B'way
Sayward, Jno. F. & Co., 525 W 23d
Schneider, Chas., 752 E 163d
Seward Engineering Co., 141 Worth

WYCKOFF & LLOYD COMPANY,
HEATING, VENTILATING AND PLUMBING CONTRACTORS,
POWER PIPING. MILL WORK.
SPRINGFIELD, MASSACHUSETTS.

Skannel, Elbert, 3281 B'way
Smith, H. B. & Co., 133 Centre
Suter, G. A. & Co., 112 Wooster
Thompson-Starrett Co., 92 Pearl
Tivy, Lawrence, 13 Platt
Tullis & Co., 534 W 22d
United Engineering & Contracting Co., 32 E 33d
Victor Heating Co., 2295 B'way
Walker & Chambers, 50 E 20th
Wallace, Geo. J., 206 E 57th
Webster, Warren Co., 17 State
Weymouth, G. H. & Co., 259 Front
Wells & Newton Co., 292 Av. B.
Williams, Francis A., 211 W 20th
Williams Heating Co., 81 Fulton
Yockel, J. Henry, 51 E 99th

Borough of Richmond.

NEW BRIGHTON—Koehler, F. D.
(END OF NEW YORK CITY)

ROCHESTER—(See Plumbers, Gas & Steam Fitters marked with a (†) dagger.)
SCHENECTADY—(See Plumbers, Gas & Steam Fitters marked with a (†) dagger.)
SYRACUSE—Bates, Edw. P., 228 W Water
Municipal Heating Co., 205 James
TROY—(See Plumbers, Gas & Steam Fitters marked with a (†) dagger.)
UTICA—Bates, E. P.
Hart & Crouse Co.
WAVERLY—Denslow, W. H. Co.
YONKERS—Morris, Thos., Nepperhan av.

NORTH DAKOTA.

(See also Plumbers, Gas & Steam Fitters marked with a (†) dagger)

FARGO—Craig, A. J.

OHIO.

(See also Plumbers, Gas & Steam Fitters marked with a (†) dagger)

AKRON—Prudential Heating Co.
CINCINNATI—Crane, M. H. (Est. of), 326 W Geerin Bros. Co., 422 E 8th Pearl
German-Russell Co., 222 E 9th
Johnston, W. T. Co., 522 Main
Kearney, John & Co., 328 New
Love, F. L., 15 E Canal
McGowan, Jno. H. Co., 56 Central av
Myers & White, 208 W 3d
Nichol, Thos. J. & Co., Pearl c Ludlow
Peck-Williamson Heating & Ventilating Co., Vance & Love, 15 E Canal 339 W 5th
CLEVELAND—Bartlett Bros. Co., 178 Huron
Bowman, E. R., 3211 Lorain
Buckeye Heating & Supply Co., 1370 W 2d
Chafer & Becker, 154 Champlain
Cleveland Steam Fitting & Supply Co., 1084 Hamilton
Crawford, P. R. & Son, Williamson bldg
Daykin Bros., 1606 W 25th
Heat Appliance Co., 518 Prospect av
Hollbrook, M. G., The Arcade
McLain, J. H. Co., 1334 Prospect av, S. E.
Morgan, Richard H., 6916 Wade Park av, N. E.
Mouat-Squires Co., 1312 W 4th, N. W.
Paul Steam System, Hickox bldg
Price, Dheer & Welker, 1532 Columbus rd
Thomson, John, 123 River
Van Sickle & Warren Co., 717 Frankfort av, N. W.
COLUMBUS—Columbus Heating & Ventilating Co., 586 S High
LORAIN—Lorain Heating & Mfg. Co.
NORWALK—Dunmore, Thomas
TOLEDO—American Foundry & Furnace Co.
Shaw-Kendall Engineering Co., Superior & Swan creek
WASHINGTON—Swope, George

OREGON.

(See also Plumbers, Gas & Steam Fitters marked with a (†) dagger)

PORTLAND—(See Plumbers, Gas & Steam Fitters marked with a (†) dagger)

PENNSYLVANIA.

(See also Plumbers, Gas & Steam Fitters marked with a (†) dagger)

ALLEGHENY—Allegheny Heating Co., 603 W Diamond
Bealor, John T. Mfg. Co., Westinghouse bldg
ALLENTOWN—(See Plumbers, Gas & Steam Fitters marked with a (†) dagger)
BLAIRSVILLE—Tittle, O. L.

BLUE BALL—Shirk, P. E.
CARBONDALE—Sperl Heater Co.
COATESVILLE—(See Plumbers, Gas & Steam Fitters marked with a (†) dagger)
CONSHOHOCKEN—Bate, W. T. & Son
EAST STROUDSBURG—Stauffer, George E.
EASTON—Norton, H. M.
HANOVER—Davidson Heating & Construction Co.
HARRISBURG—Campbell, Benj. W., 19 S River av
Harrisburg Mfg. & Boiler Co., 19th & Derry
Harrisburg Steam Heat & Power Co., 128 Horn, Alex. D., 1000 Market Short
HAZLETON—Hazleton Steam Heating Co.
JOHNSTOWN—Johnstown Supply House (Ltd.)
Swank Hardware Co.
LANCASTER—Arnold, John L.
Central Machine Works
Flinn & Breneman
Standard Heating & Engineering Co.
LANSDALE—Heebner & Sons
LATROBE—West Latrobe Foundry & Machine Works
PHILADELPHIA—Anderson Heating Co., 112 Walnut
Bowers Bros. & Co. (Heating & Ventilating), Real Estate Trust bldg
Cox & Sons Co., 215 Race
Francis Bros. & Jellet (Inc.), N Broad & Geiger, August, 118 N 6th
Germantown Steam Heating Co., 515 Pelham rd, Gtn.
Hill, Malcolm W. Co., Land Title bldg
Lampe & Bartels, 115 N Front
Makin, Jno. S. Heating Co., Builders' Exchange Model Heating Co., 142 N 10th change
Monitor Steam Generator Mfg. Co., 53 N 7th
Murphy, Harry F. & Co., 25 N 7th
Pancoast, Hy. B. & Co., 243 S 3d
Phila. Steam Heating Co., 1513 Filbert
Rickards, J. P. & Co., 2707 N Broad
Scott, Robert Engineering & Construction Co., 1716 Ludlow

Smith, H. B. Co., 704 Arch
Smith, John P., 148 N 7th
Thompson Bros., 112 Broad
Traehsel, John C. F., 230 Arch
Watson & McDaniel Co.
Webster, Warren & Co., Stephen Girard bldg
West, Charles F.
Wood, James P. Heating Co., 39 S 4th
PITTSBURG—American Warming & Ventilating Co., 541 Wood
Anderson-Darragh Co. (Ltd.), 3206 Penn av
Baker, Smith & Co., Frick bldg
Iron City Heating Co., Heeren bldg
Lewis, W. J. & Co., 416 1st av
McGinness-Smith Co., 219 1st av
Maginn, P. F. & Co., 1025 Forbes
Patten, W. W. & Co., 312 1st av
Pittsburg Heating Co., S Wood
Schaffer, John P., 209 Wood
POTTSTOWN—Sotter Bros.
POTTSVILLE—Pottsville Steam Heat & Power Co., 117 W Mahantonga
Sparks & Parker, 659 W Centre
READING—Keystone Heating Co.
Reading Steam Heat & Power Co., 615 Elm
ST. CLAIR—Quirlin, Jno. & Bro.
SCRANTON—Economy Light, Heat & Power Co., 20 Rep. bldg
Scott, Charles B., 119 Franklin
TOWANDA—Humphrey Mfg. Co.
WILKES-BARRE—Backus, Peter B., 30 Abbott
WILLIAMSPORT—Keeler, E. Co.
Williamsport Steam Co.
YORK—Mottet, George F. & Son
York Engineering Co.

RHODE ISLAND.

(See also Plumbers, Gas & Steam Fitters marked with a (†) dagger)

PROVIDENCE—Allen Fire Dept. Supply Co., Friendship c Eddy
Allen & Reed (Inc.), 172 Dorrance
General Fire Extinguisher Co., Union Trust bldg
Heath, Wm. G. & Co., 60 Friendship
Parker & Taft, 143 Eddy
Putnam Foundry & Machine Co., 73 S Main
Sampson, J. A., 10 Summer
Smith, H. B. Co., 11 S Main

SOUTH CAROLINA.

(See also Plumbers, Gas & Steam Fitters marked with a (†) dagger)

CHARLESTON—Valk & Murdoch Iron Works, 16 Hasell
SPARTANBURG—Morgan Wood & Iron Works

SOUTH DAKOTA.

(See also Plumbers, Gas & Steam Fitters marked with a (†) dagger)
WATERTOWN—Rowe, A. L.

TENNESSEE.

(See also Plumbers, Gas & Steam Fitters marked with a (†) dagger)
MEMPHIS—Southern Heating Co., Cotton Exchange bldg
NASHVILLE—Nashville Machine Co.

VERMONT.

(See also Plumbers, Gas & Steam Fitters marked with a (†) dagger)
MONTPELIER—Lane Mfg. Co.
RUTLAND—Holmes, J. H. & Co.

VIRGINIA.

(See also Plumbers, Gas & Steam Fitters marked with a (†) dagger)
RICHMOND—Harman, Charles H.
Morrison Machinery & Supply Co.
Smith-Courtney Co., 1418 E Cary

WASHINGTON.

(See also Plumbers, Gas & Steam Fitters marked with a (†) dagger)
SEATTLE—Adams & Moffat Heating Co.
Frewen & Co.
Washington Steam Heating Co., 712 Post
TACOMA—Caldwell Bros. Co.
Gardner, W. & Co.

WISCONSIN.

(See also Plumbers, Gas & Steam Fitters marked with a (†) dagger)
HARTFORD—Landt, John
LA CROSSE—Trane, James A. Plumbing Co.
MADISON—Mueller Co., 112 King
MILWAUKEE—American Foundry & Furnace Co. (Hot Air & Steam), 204 Grand av
Bayley Heating Co., 131 Sycamore
Beech, J. M. Heating Co., 249 Lake
Bowers, W. A. Heating Co., 482 Market
Cordes & Son, 69 2d
Downey & Kruse Co., 112 2d
Koehler & Meissner, 783½ 3d
Lindeman, A. J. & Hoverson Co., 348 Florida
Milwaukee Heater Mfg. Co., 458 11th av
Mueller, L. J. Furnace Co., 197 Read
NATIONAL BLOWER WORKS (Hot Blast), 17th & St. Paul av. (See adv. Index, end of book)
Riemer, Louis A., 411 State
Schier, Joseph, 2816 Galena
SHEBOYGAN—Optenberg & Sonneman

Heating (Fan System)

(See Heating Apparatus, Hot Blast)

Heating (Green House)

Bates, Edw. P., 228 W Water, Syracuse, N. Y.
Burmeister, Ang. & Co., Station D, Milwaukee
Coldwell-Wilcox Co., Newburgh, N. Y. Wis.
Carmody, J. D., Evansville, Ind.
Fish, Hindle, 23 Wash'n, N, Boston, Mass.
Foskett & Bishop Co., New Haven, Conn.
Hitchings & Co., 1170 B'way, New York
Jacobs, S. & Sons, 1365 Flushing av, Brooklyn, N. Y.
Kay, W. H. Co., 244 Fulton, N. Y.
Kroeschell Bros. Co., 55 Erie, Chicago
Lamb, F. W. Co., 259 Kinzie, Chicago, Ill.
Lord & Burnham Co., 1133 B'way, New York, & 819 Tremont bldg, Boston, Mass.
Phillips Mfg. Co., West Side av, Jersey City, N. J.
Prentice, L. H. Co., 34 Sherman, Chicago, Ill.
Reynolds, James Co., 33 Mill, Rochester, N. Y.
Seollay, John A. (Est. of), Brooklyn, N. Y.
Thomson, Kennedy & Co., 6212 Prescott, St. Louis, Mo.

Heating (Paul System of Steam)

Paul System Co., 199 Washington, Boston, Mass., & Park Row bldg, New York
Western Paul System Co., 279 Dearborn, Chicago, Ill.

Heating Thermometers

(See Thermometers, Various Kinds)

Heating (Vacuum)

Consolidated Engineering Co. ("Van Auken" System), Jackson c Canal, Chicago, Ill.
Donnelly, John A. (Steam), 132 Nassau, New York

KELLOGG-MACKAY-CAMERON CO.
("K.-M.-C." Morgan Patents), Michigan av & 12th, Chicago, Ill. (See adv. below; branch offices, end of book)

McGonagle Co., 136 Liberty, New York
Norwall Mfg. Co. ("Norwall"), 154 Lake, Chicago, Ill.
Ryan, E. J., Danville, Ill.
Schott, W. H. ("Schott" Steam & Hot Water Systems), 204 Dearborn, Chicago, Ill.

Simonds Heating & Specialty Co. ("Simond's Systems," Simple & Compound), 105 Washington av, Detroit, Mich.

Vacuum Heating Co. ("Trane"), Heed bldg, Phila., Pa.

WYCKOFF & LLOYD CO. (Contractors), 35 Lyman, Springfield, Mass. (See adv. index, end of book)

Heating (Vapor System)

KELLOGG-MACKAY-CAMERON CO.
("K.-M.-C." Morgan Patents), Michigan av & 12th, Chicago, Ill. (See adv. below)
Vapor Heating Co., York, Pa.

*Heating (Vapor-Vacuum System)

GORTON & LIDGERWOOD CO. ("Gorton"), 96 Liberty, New York, & 84 Van Buren, Chicago, Ill. (See adv. index, end of book)

KELLOGG-MACKAY-CAMERON CO.
("K.-M.-C." Morgan Patents), Michigan av & 12th, Chicago, Ill. (See adv. below)

Heating (Webster System of Steam)

Webster, Warren & Co., Camden, N. J.

Heating & Ventilating Engineers (Consulting)

Adams & Schwab, Calvert bldg, Baltimore, Md.
Bailey, Fred W. C., Wyandotte bldg, Columbus, O.

Baldwin Engineering Co., 107 W 17th, New York
Barrus, Geo. H., Pemberton bldg, Boston, Mass.
Barwick, Thos. Engineering Co., 15 Park Row, New York

Blood & Hale, 10 P O sq, Boston, Mass.
Bryan, Wm. H., Lincoln Trust bldg, St. Louis, Mo.

Campbell, Chas. A., Herald bldg, Watertown, N. Y.

Clarkson, Robt. C., Stephen Girard bldg, Philadelphia, Pa.

Clark & MacMullen, Inc., 20 Broad, New York
Darrach, Chas. G., Drexel bldg, Phila., Pa.

Edwards, L. T., 1530 Chestnut, Phila., Pa.

Furber, Wm. C., 423 Chestnut, Phila., Pa.

Harman, Jacob A., Dime Saving Bk., Peoria, Ill.

Hill, Quick & Allen, Equitable bldg, Baltimore, Md.

Kemm, J. Geo., Jr., City Trust bldg, Phila., Pa.

Mackay, W. M., 113 Beekman, New York

Monday, Chas. E. & Co., 1320 Olive, Phila., Pa.

Monroe, Jno. S., Monadnock blk, Chicago

Penna. Engineering Co., Perry bldg, Phila., Pa.

Pierce, Richardson & Neiler, Manhattan bldg, Chicago, Ill.
Roberts & Abbott Co. (Inc.), Schofield bldg, Cleveland, O.
Sanitary Engineering Co., 237 B'way, New York
Sayward, Jno. F. & Co., 21 W 24th, N. Y.
Serrell & Schenck, 17 State, N. Y.
Steenson, R. J. & Co., 912 Federal, Allegheny, Pa.
Sutton, Frank, 91 Wall, New York
Thompson-Starrett Co., 92 Pearl, New York
Van Winkle, Franklin, 39 Cortlandt, N. Y.
Wolcott Henry A., 49 Pearl, Hartford, Conn.
Woodbridge, S. Homer, (Inc.), 55 Boylston, Boston, Mass.

Heating & Ventilating Engineers (Contracting)

(See Heating Contractors, Steam & Hot Water)

Helmets (Ammonia)

National Helmet Co., 290 B'way, N. Y.

Hinge Mfrs.

(Under this heading see sub-classifications)

Aetna Nut Co., Southington, Conn.
American Ring Co., Waterbury, Conn.
American Tube & Stamping Co. (Folding Bed), Bridgeport, Conn.
Arcade Mfg. Co. (Ornamental Brass), Freeport, Ill.
Ashtabula Mfg. Co., Ashtabula, O.
Barrows Lock Co., Lockport, Ill.

BOMMER SPRING HINGES

257 to 271 Classon av, Brooklyn, N. Y. (See adv. index, end of book)

Buckley-Hart Mfg. Co., 541 Franklin, Detroit, Mich.

Chicago Hardware Co., 40 Dearborn, Chicago, Ill.

Chicago Spring Butt Co., 54 Union Park pl, Chicago, Ill.

Clark Mfg. Co., 260 Chandler, Buffalo, N. Y.

Cleveland Lock Co. ("Hercules" Spring), Hamilton & Wason, Cleveland, O.

Coleman Hardware Co. (Spring), 168 Michigan av, Chicago, Ill.

Columbian Hardware Co., Coe & Hamilton, Cleveland, O., & 168 Church, N. Y.

Corbin, P. & F., New Britain, Conn.

Cowles, C. & Co. (Inc.), (Malleable & Brass) New Haven, Conn.

Detroit Shipbuilding Co. (Brass Department), Detroit, Mich.

Devlin, Thos. & Co., 3d & Lehigh av, Phila., Pa.

Eagle Lock Co. (Brass), Terryville, Conn., & 98 Chambers, N. Y.

Edwardsville Brass Co. (Brass), Edwardsville, Ill.

Foss, Beuj. F. ("Foss" Adjustable Ball Bearing), Fairfield, Me.

Hager, C. & Sons Hinge Mfg. Co., 2427 De Kalb, St. Louis, Mo.

Hale & Benjamin, Greenfield, Mass.

Hassall, John (Fancy Box Hinges, Catches, etc.), 171 Lafayette, New York

Hazel Atlas Glass Co., Wheeling, W. Va.

Hildenbrandt Automatic Hinge Co., 125 Longworth, Cinn., O.

Kohler, F. E. & Co., Canton, O.

Kupferle, Jno. C., 2d & Mound, St. Louis, Mo.

Lanz, M. & Sons, Carson & 29th, Pittsburgh, Pa.

Lawson Mfg. Co. ("Matchless" Double Acting Floor Spring & Pivot Hinge without Spring), 40 Dearborn, Chicago, & Racine, Wis.

Lockwood Mfg. Co., South Norwalk, Conn.

McKinney Mfg. Co. (Steel Butts, Strap & T.), Locust & Market, Allegheny, Pa.

Niles Mfg. Co. ("Double Acting" Spring), 16 N Canal, Chicago, Ill.

New England Lock & Hinge Co. (Brass Finish & Tin), Winchendon, Mass.

Norwalk Lock Co., S Norwalk, Conn.

PARKER, CHAS. CO., Meriden, Conn.
(See adv. index, end of book)

Payson Mfg. Co., 1319 W Jackson boul, Chicago, Ill.

Peck, Stow & Wilcox Co., Southington, Conn.

Penn Hardware Co., Reading, Pa.

Pleuger & Henger Mfg. Co., 11th & Hebert, St. Louis, Mo.

Plume & Atwood Mfg. Co., 29 Murray, New York

Pullman Mfg. Co., Rochester, N. Y.

Reading Hardware Co., Reading, Pa.

RICHARDS MFG. CO. (Heavy), Aurora, Ill. (See adv. index & branch offices, end of book)

Root, C. J. (Wrought Brass), Bristol, Conn.

Russell & Erwin Mfg. Co., 45 Chambers, N. Y.

Safford & Co., Arlington, Mass.

Sargent & Co., New Haven, Conn., & 94 Centre, N. Y.

Schroder, J. B. & Co., 133 E 5th, Cincinnati, O.

Seovill Mfg. Co. (Brass), Waterbury, Conn.

Sessions, J. H. & Sons, 816 Chestnut, Philadelphia, Pa.

Shannon, J. B. & Sons, 816 Chestnut, Phila., Pa.

Shelby Spring Hinge Co. (Double Acting Floor), Shelby, O.

STANLEY WORKS, New Britain, Conn., & 79 Chambers, N. Y. (See adv. index, end of book)

Stover Mfg. Co., Freeport, Ill.

Taylor & Boggis Foundry Co., Cleveland, O.

Tiebout, W. & J. (Cast Brass), 118 Chambers, N. Y.

Union Mfg. Co., New Britain, Conn., & 103 Chambers N. Y.

Van Wagoner Co. (Ball Bearing), Lima, O.

WHIPPLE, R. P. & CO., 275 Main, Springfield, Mass. (See adv. on following page)

Wilcox, Crittenden & Co. (Galvanized), Middletown, Conn.

Wise, J. B. (Sewing Machine, Closet and Organ), Watertown, N. Y.

Woodruff, W. W. & Sons Co. (Carriage Door etc.), Mt. Carmel, Conn.

Wrightsville Hardware Co. (Shutter, Blind & Gate), Wrightsville, Pa.

Yale & Towne Mfg. Co., 9 Murray, New York.

Hinge Plates

Peters, Jas. & Son (Wrought Iron), 1934 N Front, Phila., Pa.

UNION EQUIPMENT AND BRONZE CO.

520 W 36th, N. Y. (See adv. outside stencil)

Hinges (Awning)

CARPENTER, GEO. B. & CO., 202 S Water, Chicago, Ill. (See adv. index, end of book)

Wilcox, Crittenden & Co., Middletown, Conn.

*Hinges (Ball-Bearing, Steel Butt)

STANLEY WORKS, New Britain, Conn., & 79 Chambers, N. Y. (See adv. index, end of book)

*Hinges (Basket)


STANLEY WORKS (Bronze Wrought Steel, etc.), New Britain, Conn., & 79 Chambers, New York. (See adv. index, end of book)

Hinges (Blind & Shutter)

Austin & Eddy, 117 Broad, Boston, Mass.

Baltinger & Berkley Patent Hinge Mfg. Co., 122 N. 7th, St. Louis, Mo.

Clark Mfg. Co. ("Dixie"), 260 Chandler, Buffalo, N. Y.



Vacuum Heating

POST YOUR SELF MARVELOUS FUEL SAVING
Write for New Catalogues, full particulars and prices


Kellogg-Mackay-Cameron Co.

CHICAGO MINNEAPOLIS KANSAS CITY SEATTLE

SOLE OWNERS

the system of the future

MORGAN PATENTS



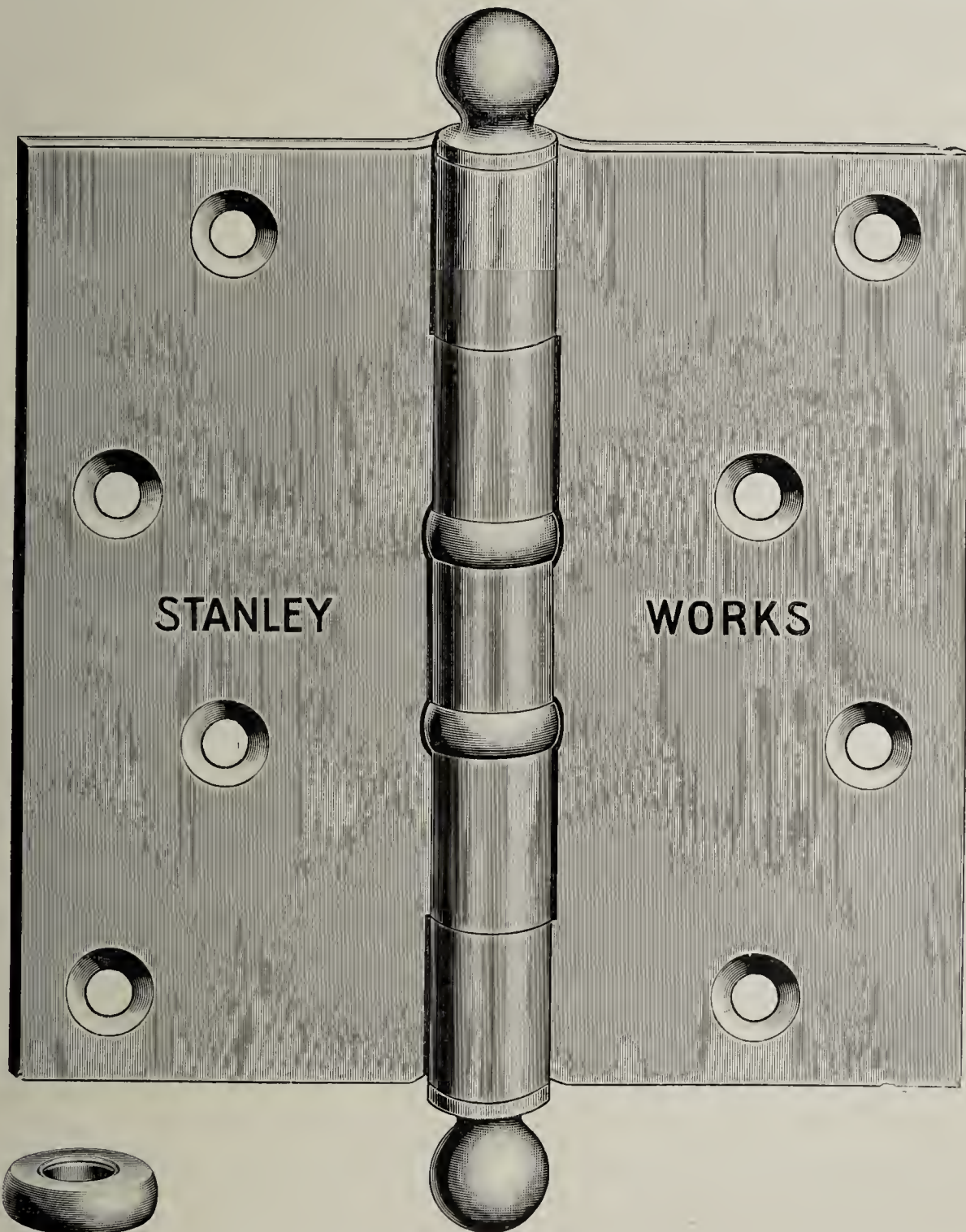
THE : STANLEY : WORKS,

New Britain, Conn.

75 Chambers St., New York and 22 Lake St., Chicago, Ill.

MAKERS OF

WROUGHT STEEL BUTTS, DOOR BOLTS, HINGES, ETC.,
ALSO COLD ROLLED STRIP STEEL FOR ALL PURPOSES.



BALL BEARING Butts in Wrought Bronze and Steel. The Ideal Butt for Heavy Doors.

No friction in the joint, consequently no wear. No oil or grease to disfigure finishes and gather dust. The washer is so constructed that it will not come apart. No creaking of door. Low cost. Correspondence from Architects solicited

BOMMER

SPRING HINGES

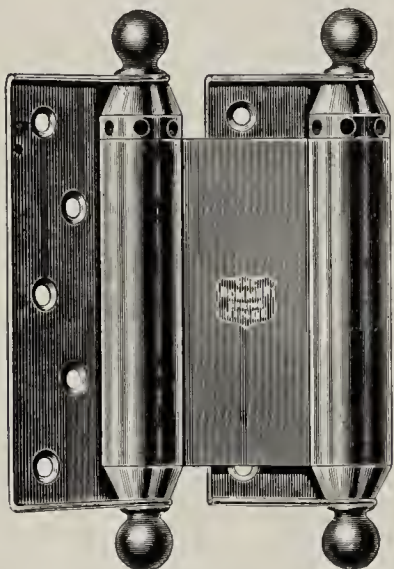
**Are Quality Goods
But Cost No More than Inferior Kinds**

Gold Medals

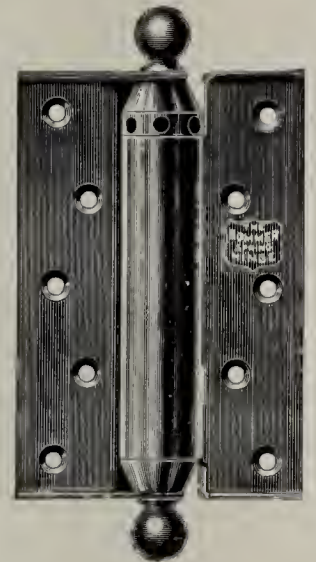
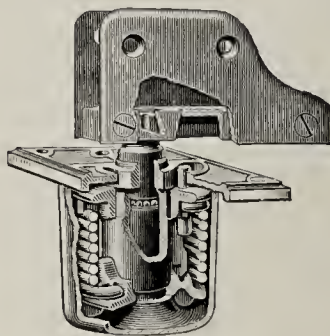
St. Louis, 1904.
Buffalo, 1901. Omaha, 1898.
Paris, 1900. Liège, 1905.

Our Trade Mark

on a Spring Hinge
means the best that can be
made.

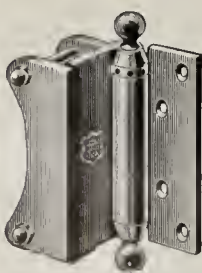


REG. U. S. PAT. OFF.

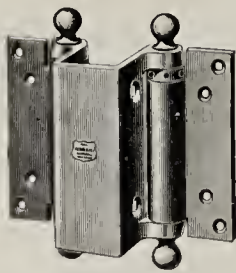


Bommer Spring Hinges last as long as the door. They are made of heavier metal than others. The springs never go lame, being made of tempered steel wire in our own factory. The bearings are solid steel. Every pair of Bommer Spring Hinges is guaranteed to give satisfaction.

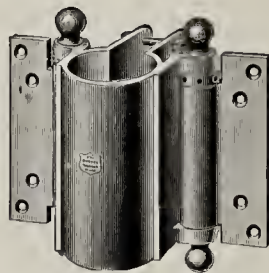
BOMMER LAVATORY SPRING HINGES



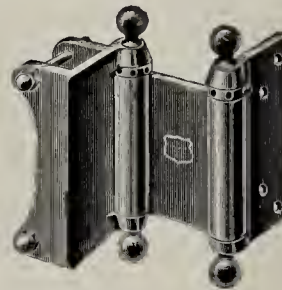
No. 1000
Single Action



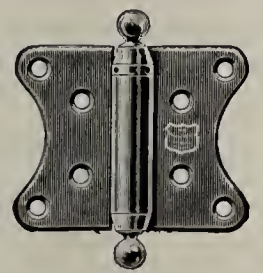
No. 1015
Yoke Hinge



No. 1017
Standard Pipe Hinge



No. 1005
Double Action



No. 1011
Surface Hinge

Your Hardware Merchant Can Supply Them.

Manufactured by

BOMMER BROTHERS, - Brooklyn, N. Y.

Established 1876

CATALOG MAILED ON REQUEST.

Enterprise Foundry Co., 48 Olean, Rochester, N. Y.
Hale & Benjamin, Greenfield, Mass.
Hawkins Car Oiler & Specialty Mfg. Co. ("Hawkins"), Lowell, Mass.

NATIONAL SUPPLY CO. ("Lull," "Porter" & "Clark" Pattern), 7 W Lombard, Baltimore, Md. (See adv. index, end of book)
Orr, Galen & Co., Needham, Mass.
Parker, Chas. Co., Meriden, Conn.
Parker Wire Goods Co. ("Hale" & "Benjamin" Automatic Blind), Worcester, Mass.

Penn Hardware Co., Reading, Pa.
Peters, Jas. & Son (Wrought Iron Shutter), 1934 N Front, Phila., Pa.
Pleuger & Henger Mfg. Co., 11th & Hebert, St. Louis, Mo.

Reading Hardware Co., Reading, Pa.
Russell & Erwin Mfg. Co., New Britain, Conn., & 43 Chambers, New York
Sargent & Co., New Haven, Conn., & 94 Centre, N. Y.

STANLEY WORKS (Wrought Steel & Cast), New Britain, Conn., & 79 Chambers, N. Y. (See adv. index, end of book)
Stover Mfg. Co., Freeport, Ill.

Snsqnehan Casting Co., Wrightsville, Pa.
WHIPPLE, R. P. & CO. (Automatic), 275 Main, Springfield, Mass. (See adv. below; branch offices, end of book)

Wrightsville Hardware Co. ("Stengers," "Shepard's," "Niagara," "Clark's," "Buffalo," "Champion," "Steamboat," "Pioneer," "Empire" & Mortise Gravity-Locking Blind Hinges & "O. S.," "Acme" & "Queen City" Shutter Hinges), Wrightsville, Pa.

*Hinges (Box)

STANLEY WORKS ("Atwood," Wrought Steel Hinges & Fast), New Britain, Conn., & 79 Chambers, New York. (See adv. index, end of book)

Hinges (Butt)

Barrows Lock Co., Lockport, Ill.

BOMMER SPRING HINGES

257 to 271 Classon av, Brooklyn, N. Y. (See adv. index, end of book)

Bronson, Homer Co. (Wrought Brass), Beacon Falls, Conn.

Chicago Hardware Co., 40 Dearborn, Chicago, Ill.

Chicago Spring Butt Co., 54 Union Park pl, Chicago, Ill.

Clark Mfg. Co. (Cast Door), 260 Chandler, Buffalo, N. Y.

Corbin, P. & F., New Britain, Conn.

Detroit Shipbuilding Co. (Brass Department), Detroit, Mich.

Griffin Mfg. Co. (Steel), Erie, Pa.

Lockwood Mfg. Co., South Norwalk, Conn.

McKinney Mfg. Co. (Wrought Steel), Allegheny, Pa.

Norwalk Lock Co., S Norwalk, Conn.

Peck, Stow & Wilcox Co., 27 Murray, New York

Penn Hardware Co. (Bronze Cast), Reading, Pa.

Plume & Atwood Mfg. Co., Waterbury, Conn.

Reading Hardware Co., Reading, Pa.

Root, C. J. (Wrought Brass), Bristol, Conn.

Russell & Erwin Mfg. Co., New Britain, Conn.

Sargent & Co., New Haven, Conn., & 94 Centre, N. Y.
Schroder, J. B. & Co. (Brass, etc.), 133 E. 5th, Cincinnati, O.

Scovill Mfg. Co. (Brass), Waterbury, Conn.

Stover Mfg. Co., Freeport, Ill.

Waterbury Brass Goods Corporation (Brass), Waterbury, Conn.

Western Brass Mfg. Works (Cast Brass or Bronze), 21st & Rockwell, Chicago, Ill.

Yale & Towne Mfg. Co. (Brass, etc.), 9 Mnr-ray, New York

Hinges (Cellar Door)

Peters, Jas. & Son (Wrought Iron), 1934 N Front, Phila., Pa.

Hinges (Cigar Box)

GRAMMES, L. F. & SONS, Allentown, Pa. (See adv. index, end of book)

Schoenhut, A. Co., 2215 Adams, Phila., Pa.

Hinges (Circular Door & Window)

Hoeg, R. O. & Co., 11th & Catharine, Philadelphia, Pa.

Hinges (Closet Door)

BOMMER SPRING HINGES

257 to 271 Classon av, Brooklyn, N. Y. (See adv. index, end of book)

Chicago Spring Butt Co., 54 Union Park pl, Chicago, Ill.

Edwardsville Brass Co. (Double Acting Spring), Edwardsville, Ill.

Niles Mfg. Co., 16 N Canal, Chicago, Ill.

Hinges (Closet Seat)

Brass Goods Mfg. Co., Nevin & Union, Brooklyn, N. Y.

Chicago Spring Butt Co. (Spring), 54 Union Park pl, Chicago, Ill.

Crescent Mfg. Co., Connellsville, Pa.

Edwardsville Brass Co., Edwardsville, Ill.

Ireland & Matthews Mfg. Co., Detroit, Mich.

Ohio Pump & Brass Co., Columbus, O.

Plume & Atwood Mfg. Co., Waterbury, Conn.

Pickering, R. S., Sharon Hill, Pa.

Reading Hardware Co., Reading, Pa.

Springfield Brass Co. (Brass & Nickel), Springfield, O.

STANLEY WORKS, New Britain, Conn., & 79 Chambers, New York. (See adv. index, end of book)

Waterbury Mfg. Co. (Brass), Waterbury, Conn.

Western Brass Mfg. Works (Brass & Bronze), 21st & Rockwell, Chicago, Ill.

Wise, J. B., Watertown, N. Y.

Hinges (Continuous)

Chicago Spring Butt Co., 54 Union Park pl, Chicago, Ill.

Waterbury Brass Goods Corporation, Waterbury, Conn.

Hinges (Double-Acting Spring)

BOMMER SPRING HINGES

257 to 271 Classon av, Brooklyn, N. Y. (See adv. index, end of book)

Chicago Spring Butt Co., 54 Union Park pl, Chicago, Ill.

Niles Mfg. Co., 16 N. Canal, Chicago.

Stover Mfg. Co. ("New Idea"), Freeport, Ill.

Van Wagoner Co. (Ball Bearings), Lima, O.

Western Brass Mfg. Works (Cast Brass, Nickel Plated, etc.), 21st & Rockwell, Chicago, Ill.

*Hinges (Engine House)

BOMMER SPRING HINGES

257 to 271 Classon av, Brooklyn, N. Y. (See adv. page following)

Chicago Spring Butt Co., 54 Union Park pl, Chicago, Ill.

Hinges (Factory Door)

Dayton Malleable Iron Co. (Malleable Iron), Dayton, O.

WISCONSIN IRON & WIRE WORKS, 190 E. Water, Milwaukee, Wis. (See adv. index, end of book)

Hinges (Fancy Box)

Hassall, John (Also Catches & Trimmings), 171 Lafayette, New York

Hinges (Fire Shutter)

Lanz, M. & Sons, 101 S 29th, Pittsburg, Pa.

*Hinges (Flask)

STANLEY WORKS (Wrought Steel), New Britain, Conn., & 79 Chambers, New York. (See adv. index, end of book)

Hinges (Flexible Steel)

Pullman Mfg. Co., Rochester, N. Y.

Hinges (Floor)

BOMMER SPRING HINGES

257 to 271 Classon av, Brooklyn, N. Y. (See adv. page following)

Chicago Spring Butt Co. (Double Acting), 54 Union Park pl, Chicago, Ill.

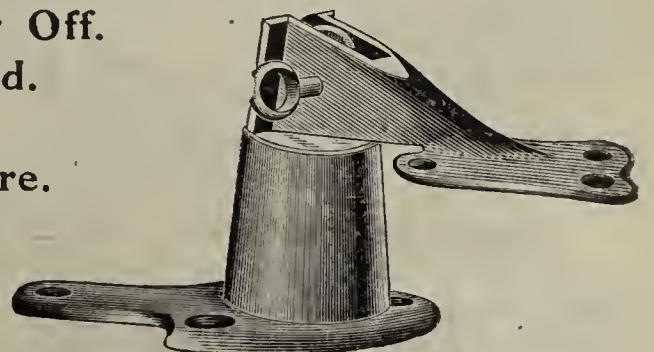
Columbian Hardware Co. ("Columbian"), Coe & Hamilton, Cleveland, O.

Lawson Mfg. Co. ("Matchless" Double Acting Ball Bearing Spring, etc.), 40 Dearborn, Chicago, Ill., & Racine, Wis.

Shelby Spring Hinge Co. ("Shelby," "Chief" Double Acting Spring, Ball Bearing, etc.), Shelby, O.

REASONS WHY WHIPPLE'S IMPROVED BLIND HINGES ARE THE BEST.

Cannot Slam or Blow Off.
No Fastening Required.
No Blinds to Trim.
No Catches to Interfere.
Will Hold the Blind Open, Half Open or Closed.



ASK YOUR DEALER FOR WHIPPLE'S AND INSIST ON GETTING IT.

R. P. WHIPPLE & CO., 275 Main St., Springfield, Mass.

Hinges (Gate)

Clark Mfg. Co., 260 Chandler, Buffalo, N. Y.
 Griffin Mfg. Co. (End Gate), Erie, Pa.
 Hazel Atlas Glass Co., Wheeling, W. Va.
 Kupferle, Jno. C. (Self Closing, etc.), St. Louis, Mo.
 Lanz, M. & Sons, 101 S 29th, Pittsburg, Pa.
 National Novelty Corporation (Self Closing), 826 B'way, New York
PARKER, CHAS. CO., Meriden, Conn.
 (See adv. index, end of book)
 Peck, Stow & Wilcox Co., Southington, Conn.
 Penn Hardware Co., Reading, Pa.
 Peters, Jas. & Son (Wrought Iron), 1934 N Front
 Pleuger & Henger Mfg. Co., 11th & Hebert, St. Louis, Mo.
 Reading Hardware Co., Reading, Pa.
 Sargent & Co., New Haven, Conn., & 94 Centre, N. Y.
 Susquehanna Casting Co., Wrightsville, Pa.

UNION EQUIPMENT AND BRONZE CO.
 520 W 36th, N. Y. (See adv. outside stencil)
WILCOX MFG. CO. (Double Acting,
 Steel, etc.), Aurora, Ill. (See adv. index,
 end of book)
 Wrightsville Hdw. Co. ("Shepherd's" or
 "Clark's" Reversible & Self-Closing Hinges
 & Latches), Wrightsville, Pa.

Hinges (Green House Sash)

Carmody, J. D. (Indestructible), Evansville, Ind.

Hinges (Invisible)

Columbian Hardware Co. ("Columbian"), Coe &
 Hamilton, Cleveland, O.
 Soss Invisible Hinge Co. ("Soss"), 797 Green-
 wich, New York

Hinges (Office Gate)

BOMMER SPRING HINGES

257 to 271 Classon av, Brooklyn, N. Y. (See
 adv. page following)
 Chicago Spring Butt Co., 54 Union Park pl.,
 Chicago, Ill.
 Columbian Hardware Co. ("Gem" & "Oxford"),
 Coe & Hamilton, Cleveland, O., & 168
 Church st, New York
 Griffin Mfg. Co., Erie, Pa.

Hinges (Piano & Organ)

Bronson, Homer D. Co. (Brass), Beacon Falls,
 Wise, J. B., Watertown, N. Y. Conn.

Hinges (Plate)

Hager, C. & Sons Hinge Mfg. Co., 242 De
 Kalb, St. Louis, Mo.
 Peters, Jas. & Son (Wrought Iron), 1934 N
 Front, Phila., Pa.

UNION EQUIPMENT AND BRONZE CO.
 520 W 36th, N. Y. (See adv. outside stencil)

Hinges (Refrigerator)

Brass Goods Mfg. Co., Nevin cor. Union, Brook-
 Griffin Mfg. Co., Erie, Pa. lyn, N. Y.
 Penn Hardware Co., Reading, Pa.
 Reading Hardware Co., Reading, Pa.
STANLEY WORKS (Wrought Brass,
 Plain & Corrugated, & Wrought Steel Bar
 Bearing), New Britain, Conn., 79 Chambers,
 New York. (See adv. index, end of book)
 Western Brass Mfg. Works, 21st & Rockwell,
 Chicago, Ill.
 Wilcox, Crittenden & Co., Middletown, Conn.

Hinges (Screen Door)

Arcade Mfg. Co. ("A-C" & "Arcade"), Free-
 port, Ill.

BOMMER SPRING HINGES

257 to 271 Classon av, Brooklyn, N. Y. (See
 adv. page following)
 Chicago Spring Butt Co., 54 Union Park pl.,
 Chicago, Ill.

Columbian Hardware Co. ("Columbian," "Clo-
 verleaf," "Columbia" & "Cleveland"), Coe
 & Hamilton, Cleveland, O., & 168 Church st.,
 New York

Hoffman Hinge & Foundry Co., Hubbard, Por-
 ter & Burlington Sts, Cleveland, O.
 Prouty, T. C. Co., Ltd., Albion, Mich.
 Schatt & Morgan Cutlery Co., Titusville, Pa
 Shelby Spring Hinge Co. ("Buckeye" &
 "O-Hi-O," Detachable), Shelby, O.
 Stover Mfg. Co., Freeport, Ill.
 Van Wagoner Co., Lima, Ohio.

Hinges (Screw Hook & Eye)

Lanz, M. & Sons, 101 S 29th, Pittsburg, Pa.
 Oliver Iron & Steel Co., Pittsburg, Pa.

Hinges (Sewing Machine)

Wise, J. B., Watertown, N. Y.

Hinges (Showcase)

Volkner & Reinke Mfg. Co. (With or Without
 Spring), 123 W. Woodbridge, Detroit, Mich.)

Hinges (Shutter)

(See Hinges, Blind & Shutter)

*Hinges (Special)

UNION EQUIPMENT AND BRONZE CO.
 520 W 36th, N. Y. (See adv. outside stencil)
WISCONSIN IRON & WIRE WORKS
 (From Architects' Designs), 190 E. Water,
 Milwaukee, Wis. See adv. index, end of book)

Hinges (Spring, Bank & Office Railing)

BOMMER SPRING HINGES

257 to 271 Classon av, Brooklyn, N. Y. (See
 adv. page following)
 Chicago Spring Butt Co., 54 Union Park pl.,
 Chicago, Ill.
 Orr & Lockett Hardware Co., 50 State, Chicago,
 Ill.

Hinges (Spring Butt)

BOMMER SPRING HINGES

257 to 271 Classon av, Brooklyn, N. Y. (See
 adv. page following)
 Chicago Spring Butt Co., 54 Union Park pl.,
 Chicago, Ill.
 Columbian Hardware Co. ("American," "Gem,"
 "Oxford" & "Columbian"), Coe & Hamil-
 ton, Cleveland, O., & 168 Church st., New
 York
 Van Wagoner Co. (Ball Bearing, Wrought
 Steel), Lima, O.

Hinges (Spring Door)

Arcade Mfg. Co. ("Arcade"), Freeport, Ill.
 Bardsley, Joseph, 149 Baxter, N. Y.

BOMMER SPRING HINGES

257 to 271 Classon av, Brooklyn, N. Y. (See
 adv. page following)
 Chicago Spring Butt Co., 54 Union Park pl.,
 Chicago, Ill.
 Columbian Hardware Co. ("American," "Gem,"
 "Oxford" & "Columbian"), Coe & Hamil-
 ton, Cleveland, O., & 168 Church st., New
 York
 Hurst, H. L. Mfg. Co., Canton, O.
 Joliet Spring Hinge Co., Joliet, Ill.
 Payson Mfg. Co., 1319 W Jackson boul., Chicago,
 Ill.
 Peck, Stow & Wilcox Co., Southington, Conn.
 Reading Hardware Co., Reading, Pa.
 Russell & Erwin Mfg. Co., New Britain, Conn.,
 & 43 Chambers, N. Y.
 Scovill Mfg. Co. (Brass), Waterbury, Conn.
 Stover Mfg. Co. ("Ideal"), Freeport, Ill.
 Van Wagoner Co. (Ball Bearing), Lima, O.

*Hinges (Spring, Double Acting)

RICHARDS MFG. CO., Aurora, Ill.
 (See adv. index & branch offices, end of book)

*Hinges (Spring Floor)

RICHARDS MFG. CO., Aurora, Ill.
 (See adv. index & branch offices, end of book)

Hinges (Spring, for Hardwood Doors)

(See Hinges, Spring Butt)

Hinges (Spring, Iron Railing Makers')

BOMMER SPRING HINGES

257 to 271 Classon av, Brooklyn, N. Y. (See
 adv. page following)
 Chicago Spring Butt Co., 54 Union Park pl.,
 Chicago, Ill.
 Columbian Hardware Co., Coe & Hamilton,
 Cleveland, O., & 168 Church, New York

Hinges (Spring Lavatory)

BOMMER SPRING HINGES

257 to 271 Classon av, Brooklyn, N. Y. (See
 adv. page following)
 Chicago Spring Butt Co., 54 Union Park pl.,
 Chicago, Ill.

Hinges (Spring, Marble Work)

BOMMER SPRING HINGES

257 to 271 Classon av, Brooklyn, N. Y. (See
 adv. page following)
 Chicago Spring Butt Co., 54 Union Park pl.,
 Chicago, Ill.
 Columbian Hardware Co. ("Columbia," "Gem,"
 "Oxford" & "Columbian"), Coe & Hamil-
 ton, Cleveland, O., & 168 Church, New York

*Hinges (Spring, Palace Rail- way Car)

BOMMER SPRING HINGES

257 to 271 Classon av, Brooklyn, N. Y. (See
 adv. opp. this page)

Hinges (Spring, Safe Makers')

BOMMER SPRING HINGES

257 to 271 Classon av, Brooklyn, N. Y. (See
 adv. opp. this page)
 Chicago Spring Butt Co., 54 Union Park pl.,
 Chicago, Ill.
 Columbian Hardware Co., Coe & Hamilton,
 Cleveland, O., & 168 Church, New York

Hinges (Spring Wrought Brass & Bronze Door)

BOMMER SPRING HINGES

257 to 271 Classon av, Brooklyn, N. Y. (See
 adv. opp. this page)
 Chicago Spring Butt Co., 54 Union Park pl.,
 Chicago, Ill.
 Columbian Hardware Co., Coe & Hamilton,
 Cleveland, O., & 168 Church, New York

Hinges (Spring, Wrought Steel)

BOMMER SPRING HINGES

257 to 271 Classon av, Brooklyn, N. Y. (See
 adv. opp. this page)

Chicago Spring Butt Co., 54 Union Park pl., Chicago, Ill.
 Columbian Hardware Co., Coe & Hamilton, Cleveland, O., & 168 Church, New York
 Griffin Mfg. Co., Erie, Pa.
 Hager, C. & Sons Hinge Mfg. Co., 2427 De Kalb, St. Louis, Mo.
 Hazel Atlas Glass Co., Wheeling, W. Va.
 Lawrence Bros., Sterling, Ill.
 McKinney Mfg. Co., Allegheny, Pa.
 Reading Hardware Co., Reading, Pa.
 Stanley Works New Britain, Conn., & 79 Chambers, N. Y. (See adv. index, end of book)
 Van Wagouer Co. (Ball Bearing), Lima, O.

Hinges (Strap & T)

Acme Flexible Clasp Co. (Acme Strap), 2834 Archer av., Chicago, Ill.
 Griffin Mfg. Co. (Pressed Steel), Erie, Pa.
 Hager, C. & Sons Hinge Mfg. Co., 2427 De Kalb, St. Louis, Mo.
 Hazel Atlas Glass Co., Wheeling, W. Va.
 Kohler, F. E. & Co., Canton, O.
 Lanz, M. & Sons, 101 S 29th, Pittsburgh, Pa.
 Lawrence Bros. (Steel), Sterling, Ill.
 McKinney Mfg. Co. (Wrought Steel), Allegheny, Pa.
 Maryland Hinge Co., Baltimore, Md.
STANLEY WORKS (Wrought Steel), Plain & Corrugated, New Britain, Conn., & 79 Chambers, N. Y. (See adv. index, end of book)
 Wilcox, Crittenden & Co., Middletown, Conn.
WISCONSIN IRON & WIRE WORKS, 190 E Water, Milwaukee, Wis. (See adv. index, end of book)

*Hinges (Trunk)

STANLEY WORKS (Wrought), New Britain, Conn., & 79 Chambers, New York. (See adv. index, end of book)

Hinges (Wash Tray)

STANLEY WORKS (Wrought Steel), New Britain, Conn., & 79 Chambers, New York. (See adv. index, end of book)

Hinges (Wire)

Acme Flexible Clasp Co., 2834 Archer av., Chicago, Ill.
 Pickering, R. S. (Box), Sharon Hill, Pa.
 Reading Hardware Co., Reading, Pa.
 Smith, F. P. & Co. (Wire Box), Sharon Hill, Pa.
 Springfield Brass Co. (Brass & Nickel Plate), Springfield, Mass.

*Hinges (Wrought Brass Corrugated)

STANLEY WORKS, NEW BRITAIN, Conn., & 79 Chambers, N. Y. (See adv. index, end of book)

Hinges (Wrought Steel Butt)

(See Hinges, Spring, Wrought Steel)

Hitchings (Mine Car)

Harris, Wm. & Son, Allegheny, Pa.
 Hockensmith Wheel & Mine Car Co., Irwin, Pa.
MACOMBER & WHYTE ROPE CO. ("Monarch"), 21 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
 Niles Mine & Mill Supply Co. (Clevis & Hook), Cleveland, O., & Niles, O.
 Phillips Mine & Mill Supply Co., Pittsburgh, Pa.
 Pittsburgh Gage & Supply Co., Pittsburgh, Pa.
 Standard Chain Co., 301 Ross, Pittsburgh, Pa.
 Stine, S. B. & Son, Osceola Mills, Pa.
 Treadwell, M. H. & Co., 90 West, New York. Works: Lebanon, Pa.

Hobs (Bolt Cutter)

Card, S. W. Mfg. Co., Mansfield, Mass.
 Ellison Bros., 2213 Bridge, Fld., Phila., Pa.
HELWIG MFG. CO., National German-American Bank bldg, St. Paul, Minn. (See adv. index, end of book)
 Putnam Machine Co., Fitchburg, Mass.
WELLS BROS. CO. ("Little Giant"), Greenfield, Mass. (See adv. index, end of book)

Hobs (Die)

Brubaker, W. L. & Bros. (Solid), Millersburg, Pa.
 Carpenter, J. M., Tap & Die Co. (Solid, Open Sellers), Pawtucket, R. I.

Hobs (Worm)

Becker, Brainard Milling Machine Co., Hyde Park, Mass.
 Brown & Sharpe Mfg. Co., Providence, R. I.
 Gould & Eberhardt, Newark, N. J.
 Niles-Bement-Pond Co., 111 B'way, New York
 Union Twist Drill Co., Athol, Mass.

Hod Hoisting Machines

(See Elevators, Hod)

Hods (Coal)

Buffalo Mfg. Co., Buffalo, N. Y.
 Central Stamping Co. ("Columbia"), 24 Cliff, New York, N. Y.
 Geuber & Paeschke Mfg. Co., Milwaukee, Wis.
 Iron Clad Mfg. Co., 204 Varet, Brooklyn, N. Y.
 Pfeifer, Jno. & Co., 224 Race, Philadelphia, Pa.
 Victor Stamping Co. ("Victor" Galvanized & Japanned), Twightwee, Ohio
 Wheeling Corrugating Co., Wheeling, W. Va.

Hods (Mortar & Brick)

ANDERSON, W. H. TOOL & SUPPLY Co., 14 Macomb, Detroit, Mich. (See adv. index, end of book)
 Cleveland Wire Spring Co. (Hercules Steel), Cleveland, O.
 Johnson & Halvey, 641 Water, New York
 Lansing Wheelbarrow Co., Lansing, Mich.
 Parker Hoist & Machine Co., 971 N Francisco av., Chicago, Ill.
 Stortz, Jno. & Son, 210 Vine, Phila., Pa.

Hoe Mfrs.

American Axe & Tool Co. (Grub), Glassport, Pa., & 253 B'way, N. Y.
 American Fork & Hoe Co. (Boys, Field, Garden, Mortar Mixer, Ladies' Cultivator, Planters, Onion Weeder, Turnip Weeding, etc.), Main Office, Cleveland, O.
 Belcher & Taylor Agricultural Tool Co., Chesapeake Falls, Mass.
 Bradley's, C. W. Sons (Inc.) (Cranberry, Shuffle, Garden Seed & Grub), Westport, Conn.
 Brown, Hinman & Huntington Co. (Garden, Mortar, Planters, etc.), Memphis, Tenn.
 Chantrell Tool Co. (Garden Hoes), Reading, Pa., & 103 Reade, New York
 Collins Co., Collinsville, Conn., & 212 Water, N. Y.
 Continental Tool Co. (Field, Garden, Mortar, Mixing, Planter, Cotton, Chopper, Sugar Cane & Shuffle), Frankfort, N. Y.
 Cronk & Carrier Mfg. Co. ("Weeding"), Elmira, N. Y.
 Derby & Ball, Bellows Falls, Vt.
 Findlay Axe & Tool Co. (Grub, etc.), Findlay, Pa.
 Harriman Hoe & Tool Co. ("Razor Edge," Mortar, Planters, Cotton, Field or Garden "Champion," Weeding, etc.), Harriman, Hoist Co., 200 S William, New York
 Howard Iron & Tool Co. (Solid Steel Weldless), Bellefont, Pa.
 Hussey Plow Co., No. Berwick, Me.
 Iowa Farming Tool Co., Fort Madison, Iowa
 Iron City Tool Works (Grub, Palmetto, etc.), 32d & Smallman, Pittsburgh, Pa.
 Jelliff, C. O. Mfg. Corp. (Onion), Southport, Conn.
 Klein-Logan Co. (Grub, Palmetto, etc.), S 13th, Breed, Pittsburgh, Pa.
 Kohler, F. E. & Co. (Garden), Cauton, O.
 Mack & Co. (Grub, Grape, etc.), Rochester, N. Y.
 Maynard, C. A. (Planters), Northampton, Mass.
 North Wayne Tool Co. (The C. C. Brooks), Lowell, Me.
 Pittsburgh Tool & Drop Forge Co. (Grub), Cheswick, Pa.
 Plumb, Fayette R., Frankford, Phila.
 Rock River Mfg. Co. "Self-Cleaning," Dixon, Ill.
 Sandusky Tool Co. (Planters, Grub, Grape, Tobacco, Rice, Cane, Cotton, Street Cleaning, etc.), Sandusky, O.
 Scovil, D. & H. ("Scovil" Hoes), Higganum, Conn.
 Smith, Jno. C., 510 Parrett, Evansville, Ind.
 Union Furnace Mfg. Co. (Malleable Iron), Union Furnace, Pa.

Warwood Tool Co. (Grub & Hazel), Wheeling, W. Va.
 Withington & Cooley Mfg. Co. (Field Cotton Planter, Weeding, etc.), Jackson, Mich.

Hoes (Grub)

American Axe & Tool Co., Glassport, Pa.
 Bateman Mfg. Co., Grenloch, N. J.
 Bradley's, G. W. Sons (Inc.), Westport, Conn.
 Findlay Axe & Tool Co., Findlay, O.
 Iron City Tool Works, Pittsburgh, Pa.
 Klein, Logan Co., Pittsburgh, Pa.
 Mack & Co., Rochester, N. Y.
 Pittsburgh Tool & Drop Forge Co. ("Cheswick"), Cheswick, Pa.
 Plumb, Fayette R. (Inc.), Frankford, Philadelphia, Pa.
 Sandusky Tool Co., Sandusky, O.
 Warwood Tool Co., Wheeling, W. Va.

Hoes (Horse)

Adams, G. & Son, Rome, N. Y.
 Allen, S. L. & Co., 1107 Market, Phila., Pa.
 Ames Plow Co., Quincy Hall, Boston, Mass.
 Bateman Mfg. Co., Grenloch, N. J.
 Belcher & Taylor Agricultural Tool Co., Chesapeake Falls, Mass.
 Bement's, E. Sons, Lansing, Mich.
 Benecia Agricultural Works, Benecia, Cal.
 Bradley, David Mfg. Co., Bradley, Ill.
 Farquhar, A. B. Co., York, Pa.
 Hussey Plow Co. (Potato), No. Berwick, Me.
 International Harvester Co. of America (& Cultivators), 7 Monroe, Chicago, Ill.

Hoes (Scuffle)

Hussey-Binns Shovel Co. (Crucible Cast Steel), Pittsburgh, Pa.

Hoes (Wheel)

Allen, S. L. & Co., 1107 Market, Philadelphia, Pa.
 Ames Plow Co., Quincy Hall, Boston, Mass.
 Bacon Mfg. Co., Pontiac, Mich.
 Bateman Mfg. Co., Grenloch, N. J.
 Fuller Mfg. Co., Danvers, Mass.
 Fuller & Johnson Mfg. Co., Racine, Wis.
 Hussey Plow Co., North Berwick, Me.
 Jelliff, C. O. Mfg. Corporation, Southport, Conn.
 Moline Plow Co., Moline, Ill.

*Hoist & Conveyor (Combined)

BALANCED CABLE CRANE CO. THE, 135 William, N. Y. City. (See adv. opp. last page of index of contents)
BETHLEHEM FOUNDRY & MACHINE Co., Front, South Bethlehem, Pa., & 149 B'way, New York. (See adv. index, end of book)

Hoisting Engines

(See Engines, Hoisting)

Hoists (Air Motor)

(See Pneumatic Hoists.)

Hoists (Ash)

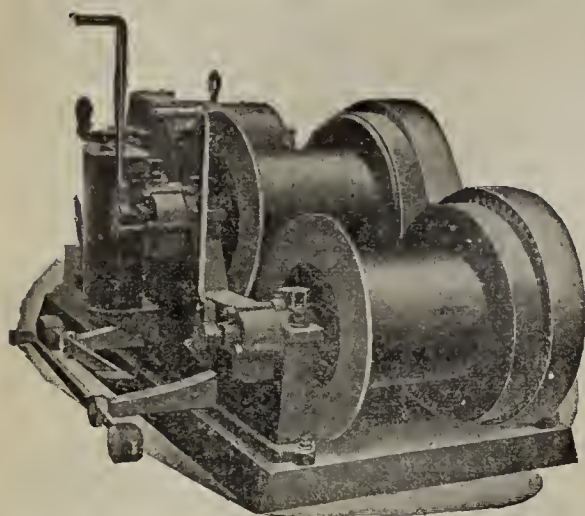
NORTHERN ENGINEERING WORKS (For Power Plants), 9 Cheue, Detroit, Mich. (See adv. on following page)
 Quincy-Manchester-Sargent Co., Old Colony bldg, Chicago, Ill., & 114 Liberty, New York
SPEIDEL, J. G. ("Cellar"), cor But-tonwood & Gordon, Reading, Pa. (See adv. index, end of book)
STORM MFG. CO., Newark, N. J. (See adv. index, end of book)

Hoists (Automobile)

Ginter, J. M., Wooster, O.
NICHOLS, WM. S. (Portable), 253 B'way, New York. (See adv. index, end of book)
 Yale & Towne Mfg. Co., 9 Murray, New York.

*Hoists (Belt)

AMERICAN HOIST & DERRICK CO., St. Paul, Minn. (See adv. index & branch offices, end of book)
DOBBIE FOUNDRY & MACHINE CO., Niagara Falls, N. Y. (See adv. index & branch offices, end of book)
NATIONAL HOISTING ENGINE CO. (Single & Double Friction Drum), Harrison, N. J. (See adv. index & branch offices, end of book)



Electric Hoists

OVERHEAD AND FLOOR

For Warehouses, Docks,
Quarries, Yards, etc.

Overhead track and Hoist systems for all
purposes. Catalogue free.

AIR HOISTS

Northern Engineering Works

9 CHENE ST., DETROIT, MICH.



ELECTRIC HOIST



AIR HOIST

*Hoists (Blast Furnace)

OTIS ELEVATOR CO., 17 Battery pl,
New York. (See adv. index & branch offices,
end of book)

*Hoists (Builders' Electric)

(See also Elevators, Hod)

MEAD-MORRISON MFG. CO. (for
Platform Elevators), Cambridge (Boston),
Mass., & 11 B'way, New York. (See adv.
index & branch offices, end of book)

Hoists (Chain)

(See also Pneumatic Hoists)

Boston & Lockport Block Co., 160 Commercial,
Boston, Mass.
Box, Alfred & Co., 813 N Front, Philadelphia,
Pa.

CHISHOLM & MOORE MFG. CO.
("Moore's" Anti-Friction, with Automatic
Brake "Cyclone," High Speed "Direct" Dif-
ferential), Lake & Kirkland, Cleveland, O.
Cleveland Crane & Car Co. (Traveling), Wick-
liffe, O.

COBURN TROLLEY TRACK MFG.
Co., Holyoke, Mass. (See adv. index, end
of book)

Contractors' Plant Mfg. Co., 129 Erie, Buffalo,
N. Y.

Curtis & Co. Mfg. Co., St. Louis, Mo.
Dake Engine Co. (Pneumatic), Grand Haven,
Mich.

DOBBIE FOUNDRY & MACHINE CO.,
Niagara Falls, N. Y., and 82 Warren, N. Y.
(See adv. index & branch offices, end of book)

Dunn, Jas. P., 3043 Superior, N. E., Cleveland,
O.
Ecksteln, Chas. G., 249 Centre, N. Y.
Empire Engine & Motor Co. ("Empire" Pne-
umatic), Orangeburg, N. Y.

FREVERT MACHINERY CO., 18 Dey,
New York. (See adv. index, end of book)

Harrington, Edwin, Son & Co. (Keystone Spur
Geared), 17th & Callowhill, Phila., Pa.
Irving Mfg. & Tool Co. (J. F. McCoy Co., Prop.),
159 Chambers, New York

Lane Bros. Co., Poughkeepsie, N. Y.
MOORE, FRANKLIN CO. ("Aeme"),
Winsted, Conn. (See adv. index, end of
book)

Ney Mfg. Co. (Rope), Canton, O.
NORTHERN ENGINEERING WORKS
("Electric"), Chene & Atwater, Detroit,
Mich. (See adv. above)

Olsen, Tinlus & Co., 500 N 12th, Phila., Pa.
Pawling & Harnischfeger, 38th & National avs,
Milwaukee, Wis.

Reading Chain Block Works, Reading, Pa.
READING CRANE & HOIST WORKS,
Reading, Pa. (See adv. index, end of book)

Round, D. & Son, 2287 B'way, Cleveland, O.
SPEIDEL, J. G. ("Economy," "Safe-
ty"), c Buttonwood & Gordon, Reading, Pa.
(See adv. index, end of book)

Stuebner, Geo. L. Iron Works, Long Island City,
N. Y.

TUOHY BROS. CO., 95 Liberty, New
York. (See adv. index, end of book)

Wagner-Palmros Mfg. Co., Fairmont, W. Va.
Yale & Towne Mfg. Co. (Triplex, Spur Geared
& "Duplex"), 9 Murray, New York

*Hoists (Coal Handling)

NORTHERN ENGINEERING WORKS
(For Unloading Cars, Vessels, etc.), 9 Chene,
Detroit, Mich. (See adv. above)

*Hoists (Coal, Incline Traveling)

HAYWARD CO., THE, 99 Cedar, New
York. (See adv. index, end of book)

*Hoists (Concrete Bucket)

RANSOME CONCRETE MACHINERY
Co., Dunellen, N. J. (See adv. index, end of
book)

Hoists (Contractors' & Builders' Wheelbarrow)

Truxal-Painter Mfg. Co. ("Painter"), Chatta-
nooga, Tenn.

*Hoists (Distillate)

FAIRBANKS, MORSE & CO., Frank-
lin & Monroe, Chicago, Ill. (See adv. in-
dex & branch offices, end of book)

Hoists (Dock & Deck)

Automatic Machine Co., Bridgeport, Conn.
BALANCED CABLE CRANE CO., THE,
135 William, N. Y. City. (See adv. opposite
last page of Index of Contents)

Bartlett, A. F. & Co., Saginaw, Mich.
Contractors' Plant Mfg. Co., 129 Erie, Buffalo,
Dake Machine Co. (Pneumatic or Steam), Grand
Haven, Mich.

DOBBIE FOUNDRY & MACHINE CO.,
Niagara Falls, N. Y., & 82 Warren, N. Y.
(See adv. index & branch offices, end of book)

Jackson & Church Co., Saginaw, Mich.
LIDGERWOOD MFG. CO., 96 Lib-
erty, N. Y., & Old Colony bldg., Chicago.
(See adv. index & branch offices, end of book)

Maris Bros., 56th c Gray's av, Phila., Pa.

MEAD-MORRISON MFG. CO., Cam-
bridge (Boston), Mass., & 11 B'way, New
York. (See adv. index & branch offices, end
of book)

MUNDY, J. S. (Electric & Steam),
22 Prospect, Newark, N. J. (See adv. index
& branch offices, end of book)

NICHOLLS, WM. S. (Dock, Portable),
253 B'way, New York. (See adv. on follow-
ing page)

NORTHERN ENGINEERING WORKS
("Electric"), 9 Chene, Detroit. (See adv.
above)

OTIS ELEVATOR CO., 17 Battery pl,
New York. (See adv. index & branch offices,
end of book)

Union Iron Works, 222 Market, San Francisco.
Williamson Bros., Aramingo av & Cumberland,
Phila., Pa.

*Hoists (Drum)

AMERICAN HOIST & DERRICK CO.,
St. Paul, Minn. (See adv. index and branch
offices, end of book)

BALANCED CABLE CRANE CO., THE
(Double Drum), 135 William, New York. (See
adv. opp. last page of Index of Contents)

DODGE MFG. CO., Mishawaka, Ind.
(See adv. index & branch offices, end of book)

FAIRBANKS, MORSE & CO. (Double
Drum), Franklin & Monroe, Chicago, Ill.
(See adv. index & branch offices, end of book)

FLORY, S. MFG. CO. (Belt & Elec-
tric Single & Double Friction, for Quarries,
Mines, etc.), Bangor, Pa. (See adv. index,
end of book)

SHAW, WILLIS, 171 La Salle, Chi-
cago, Ill. (See adv. index, end of book)

Smith, T. L. Co. ("Friction"), Milwaukee, Wis.

Hoists (Electric)

(See also Pneumatic Hoists; also Cranes, Hand
Power; also Cranes, Electric)

ALLIS-CHALMERS CO., Milwaukee,
Wis. (See adv. & branch offices, end of book)

Shepard Electric Hoists



CAGE CONTROL

FLOOR CONTROL

PULPIT CONTROL

Accessible Enclosure of All Vital Parts

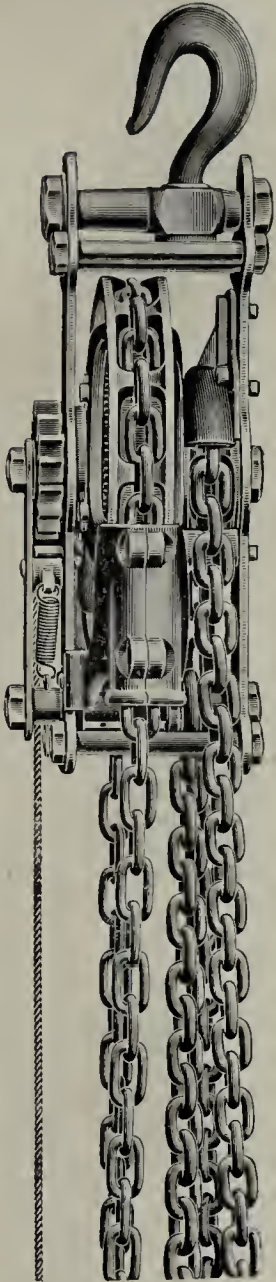
POSITIVE LUBRICATION BY
SPLASH AND RING OILING



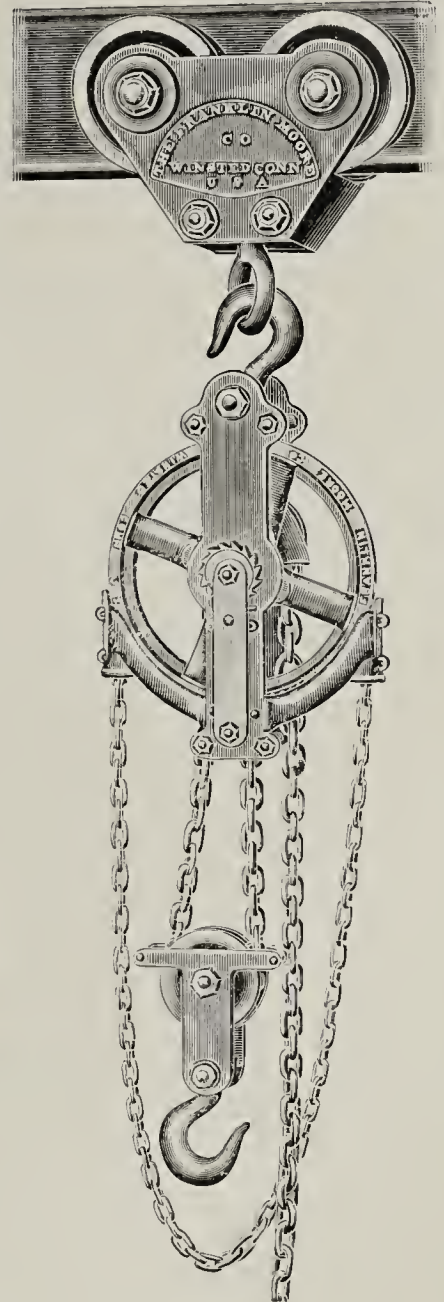
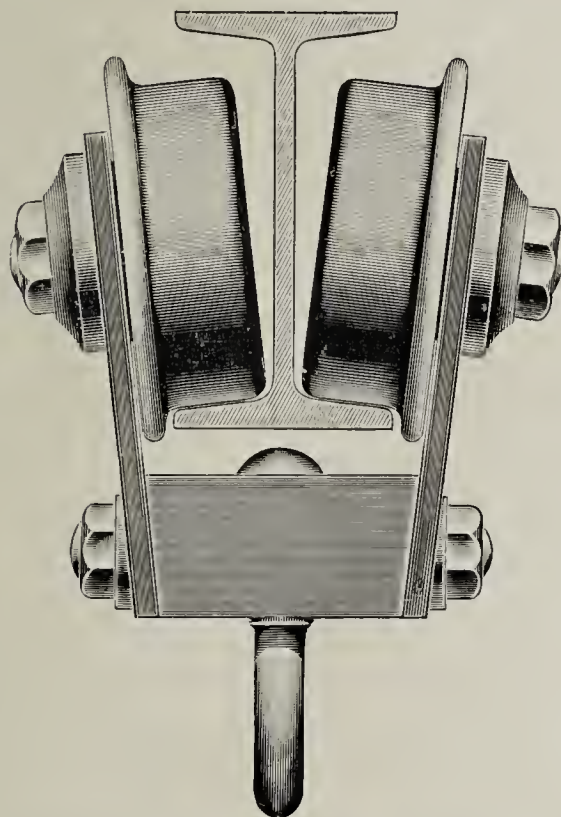
The General Pneumatic Tool Company

NEW YORK General Office and Works: PHILADELPHIA
Singer Building MONTOUR FALLS, N.Y. Stephen Girard Bldg.
PITTSBURG, Machesney Building.

Acme Chain Hoists and Overhead Trolleys



AN Acme Chain Block and Trolley Combined is the greatest known labor-saving device. Better than others because of requiring less power to raise the full load, which is always safely sustained. The large diameter of trolley wheels permits the load to be moved with the least friction. The unloaded hook of the chain block may be raised or lowered instantly, thus saving time as against others.



We send them on 30 days' trial to responsible firms.

A Two-Ton Acme Chain Block and Trolley Combined

The Franklin Moore Co., Winsted, Conn., U.S.A.

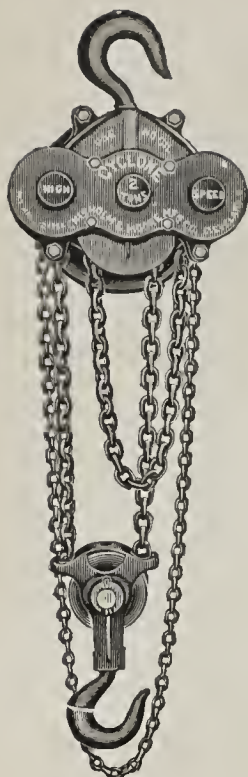


Fig. 300.

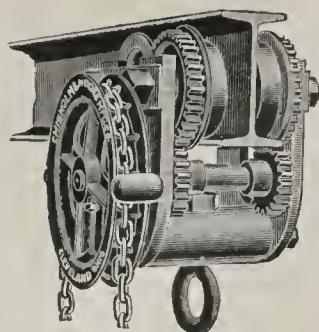


Fig. 112,
GEARED TROLLEY.

Fig. 300.
"CYCLONE" HIGH SPEED
CHAIN HOIST.

Fig. 101.
"DIRECT" DIFFEREN-
TIAL PULLEY BLOCK.

Send for Catalogue.



Fig. 101.

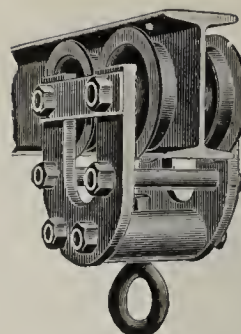


Fig. 113.
PLAIN TROLLEY.

Fig. 100.
"MOORE" ANTI-FRIC-
TION CHAIN HOIST.

The CHISHOLM & MOORE
MFG. CO.,

Cleveland, Ohio.



Fig. 100.

Hendricks' Commercial Register

IS USED FOR



PURCHASING PURPOSES



BY A GREATER VARIETY OF INDUSTRIES
THAN ANY OTHER PUBLICATION ISSUED

IT MAY BE OF
INTEREST
TO YOU



To know that this book circulates in nearly
every town and hamlet throughout the U.S.

AMERICAN HOIST & DERRICK CO., St. Paul, Minn. (See adv. index & branch offices, end of book)
BALANCED CABLE CRANE CO., The, 135 William N. Y. City. (See adv. opp. last page of Index of Contents)
Box, Alfred & Co., 813 N. Front, Phila., Pa.
BROWN HOISTING MACHINERY CO., St. Clair, N. E., Cleveland, O., & 26 Cortlandt, N. Y. (See adv. index, end of book)
Browning Engineering Co., Cleveland, O.
CASE MFG. CO., St. Clair & Curtis avs., Columbus, O. (See adv. index, end of book)
CHICAGO PNEUMATIC TOOL CO., Fisher bldg., Chicago, Ill. (See adv. index, end of book)
Cleveland Crane & Car Co. (Traveling, Plain & Trolley Type), Wickliffe, O.
CLEVELAND PUNCH & SHEAR Works, Cleveland, O. (See adv. index, end of book)
Curtis & Co. Mfg. Co., St. Louis, Mo.
Denver Engineering Works Co., Blake & 30th, Denver, Col.
Detroit Engineering Works, Chene & Guoin, Detroit, Mich.
DOBBIE FOUNDRY & MACHINE CO., Niagara Falls, N. Y., & 82 Warren, N. Y. (See adv. index & branch offices, end of book)
FAIRBANKS, MORSE & CO., Frank-lin & Monroe, Chicago, Ill. (See adv. index & branch offices, end of book)
FREVERT MACHINERY CO., 18 Dey, New York. (See adv. index, end of book)
FLORY, S. MFG. CO., Bangor, Pa. (See adv. index, end of book)
GENERAL ELECTRIC CO., Schenec-tady, N. Y., & 44 Broad, New York. (See adv. index & branch offices, end of book)
GENERAL PNEUMATIC TOOL CO., Montour Falls, N. Y., & 149 B'way, New York. (See adv. bottom of preceding page; branch offices, end of book)
Hunt, C. W. Co., 45 B'way, N. Y. Works, W. New Brighton, N. Y.
International Hoisting Mach. Mfg. Co., Minneapolis, Minn.
LAMBERT HOISTING ENGINE CO., Main Office & Works, 115-121 Poinier, Newark, N. J. (See adv. index & branch offices, end of book)
LIDGERWOOD MFG. CO., 96 Lib-erty, New York, & Old Colony bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
McMyler Mfg. Co., 182 Columbus, O., Cleve-land, O.
Maine Electric Co., Portland, Me.
MEAD-MORRISON MFG. CO. (Gear-less), Cambridge (Boston), Mass., & 11 B'way, New York. (See adv. index & branch offices, end of book)
Mechanical Appliance Co. ("Watson," Motor Driven), Milwaukee, Wis.
Mine & Smelter Supply Co., Denver, Colo.
MUNDY, J. S., 22 Prospect, Newark, N. J. (See adv. index & branch offices, end of book)
NATIONAL HOISTING ENGINE CO. (Double Friction Drum, etc.), Harrison, N. J. (See adv. index & branch offices, end of book)
N. Y. CABLEWAY & ENGINEERING Co., 1 Rector, New York. (See adv. index, end of book)
NORTHERN ENGINEERING WORKS (Chain), Detroit, Mich. (See adv. top of preceding page)
OTIS ELEVATOR CO., 17 Battery pl., New York. (See adv. index & branch offices, end of book)

Parker Hoist & Machine Co., 971 N. Francisco av., Chicago, Ill.
Pawling & Harnischfeger, 38th & National avs., Milwaukee, Wis.
PHOENIX ELECTRIC COMPANY, Mansfield, O. (See adv. index, end of book)
Portland Co., Portland, Me.
ROBINS CONVEYING BELT CO., 19 Park row, New York. (See adv. index, end of book)
SPRAGUE ELECTRIC CO., 527 W 34th, New York. (See adv. below; branch offices, end of book)
Sturtevant, B. F. Co., Hyde Park, Mass.
TUOHY BROS. CO., 95 Liberty, New York. (See adv. index, end of book)
WELLMAN-SEEVER-MORGAN CO., Cleveland, O., & Akron, O. (See adv. index, end of book)

*Hoists (Electric Chain)

NORTHERN ENGINEERING WORKS, 9 Chene, Detroit, Mich. (See adv. top of preceding page)
SPRAGUE ELECTRIC CO., 527 W 34th, New York. (See adv. below; branch offices, end of book)

Hoists (Electric Mine)

BALANCED CABLED CRANE CO., The, 135 William, N. Y. City. (See adv. opp. last page of Index of Contents)
Denver Engineering Works Co., Denver, Col.
GENERAL ELECTRIC CO., Schenec-tady, N. Y., & 44 Broad, New York. (See adv. index & branch offices, end of book)
Goodman Mfg. Co., 39th & Stewart av., Chicago, Ill.
LAMBERT HOISTING ENGINE CO., 119 Poinier, Newark, N. J., & 149 B'way, New York. (See adv. index, end of book)
MEAD-MORRISON MFG. CO., Cam-bridge (Boston), Mass., & 11 B'way, New York. (See adv. index & branch offices, end of book)
Mine & Smelter Supply Co., Denver, Colo.
PHOENIX ELECTRIC COMPANY, Mansfield, O. (See adv. index, end of book)
WELLMAN-SEEVER-MORGAN CO., Cleveland, O., & Akron, O. (See adv. index, end of book)

*Hoists (Electric, Reversible Friction)

MONIGHAN'S MACHINE WORKS, 813 Carroll av., Chicago, Ill. (See adv. index, end of book)

Hoists (Electric Traveling)

(See also Cranes, Electric Traveling)

BALANCED CABLE CRANE CO., The, 135 William, N. Y. City. (See adv. opp. last page of Index of Contents)
FREVERT MACHINERY CO., 18 Dey, New York. (See adv. index, end of book)
CASE MFG. CO., St. Clair & Curtis avs., Columbus, O. (See adv. index, end of book)
GENERAL PNEUMATIC TOOL CO. (also Electric Trolleys), Montour Falls, N. Y., & 149 B'way, New York. (See adv. bottom of preceding page; branch offices, end of book)

Niles, Bement Pond Co., 111 B'way, New York.
NORTHERN ENGINEERING WORKS, 9 Chene, Detroit, Mich. (See adv. top of preceding page)
SPRAGUE ELECTRIC CO., 527 W 34th, New York. (See adv. below; branch offices, end of book)
TUOHY BROS. CO., 95 Liberty, New York. (See adv. index, end of book)
WHITING FOUNDRY EQUIPMENT Co., Harvey, Ill. (See adv. index and branch offices, end of book)

Hoists (Electric Trolley)

BALANCED CABLE CRANE CO., The 135 William, N. Y. City. (See adv. opp. last page of Index of Contents)
CASE MFG. CO., St. Clair & Curtis avs., Columbus, O. (See adv. index, end of book)
GENERAL PNEUMATIC TOOL CO. (also Electric Trolleys), Montour Falls, N. Y., & 149 B'way, New York. (See adv. bottom of preceding page; branch offices, end of book)
MARINE ENGINE & MACHINE CO., 126 Liberty, New York. (See adv. index, end of book)
NORTHERN ENGINEERING WORKS, 9 Chene, Detroit, Mich. (See adv. top of preceding page)
SPRAGUE ELECTRIC CO., 527 W 34th, New York. (See adv. below; branch offices, end of book)
WHITING FOUNDRY EQUIPMENT Co., Harvey, Ill. (See adv. index, & branch offices, end of book)

*Hoists (Foundry, Portable)

NICHOLLS, WM. S., 253 B'way, New York. (See adv. index, end of book)

*Hoists (Friction & Flat Friction)

FAIRBANKS, MORSE & CO., Frank-lin & Monroe, Chicago, Ill. (See adv. index & branch offices, end of book)
Marquette, Jno. N. (Friction Only), 507 S Eden, Baltimore, Md.

Hoists (Gasoline)

Corliss Gas Engine Co. (Corliss Mining), 227 Folsom, San Francisco, Cal.
FAIRBANKS, MORSE & CO., Frank-lin & Monroe, Chicago, Ill. (See adv. index & branch offices, end of book)
Foos Gas Engine Co. (Mine), Springfield, O.
International Hoisting Mach. Mfg. Co., Minneapolis, Minn.
NORTHERN ENGINEERING WORKS, 9 Chene, Detroit, Mich. (See adv. top of preceding page)
Parker Hoist & Machine Co. (Reversible), 971 N Francisco av., Chicago, Ill.
Union Gas Engine Co. (Gas), San Francisco, Cal.
Weber Gas Engine Co., Kansas City, Mo.
Witte Iron Works Co., Kansas City, Mo.

Hoists (Grip, for Hand Elevators)

Arthur Co., 188 Front, New York
WARSAW ELEVATOR CO., Warsaw, N. Y., & Erie Co. B'k bldg, Buffalo, N. Y. (See adv. index and branch offices, end of book)

SPRAGUE ELECTRIC HOISTS

FOR MODERN SHOP PRACTICE.

Sprague Electric Hoists are made in a large variety of types and sizes from 1-2 to 10 tons capacity, and are rapidly being installed throughout the country for all purposes of hoisting, because of their economy in handling materials.

SPRAGUE ELECTRIC COMPANY,

General Offices: 527 West 34th Street, New York City.

Hoists (Hand)

(See also Elevators, Hand)

Adrian Mfg. Co., Adrian, Mich.
AMERICAN HOIST & DERRICK CO.
 (Also Belt), St. Paul, Minn. (See adv. index & branch offices, end of book)
BETHLEHEM FOUNDRY & MACHINE CO., Front, South Bethlehem, Pa. (See adv. index, end of book)
CASE MFG. CO. (Hand Power), St. Clair & Curtis ays., Columbus, O. (See adv. index, end of book)
CHISHOLM & MOORE MFG. CO., ("Moore's" Hand Hoist with Lock Brake), Cleveland, O. (See adv. index, end of book)
COBURN TROLLEY TRACK MFG. CO. (Rope Block), Holyoke, Mass. (See adv. index, end of book)
 Contractors' Plant Mfg. Co., 129 Erie, Buffalo, N. Y.
 Dedrick's, D. K. Sons, Albany, N. Y.
DOBBIE FOUNDRY & MACHINE CO. (Hand Power), Niagara Falls, N. Y., & 82 Warren, New York. (See adv. index & branch offices, end of book)
FREVERT MACHINERY CO., 18 Dey, New York. (See adv. index, end of book)
 Hassell Iron Works Co. (also Horse Power), Colorado Springs, Colo.
 Hunt, Helm, Ferris & Co. ("Star" Rope & Block), Harvey, Ill.
LAMBERT HOISTING ENGINE CO., Main Office & Works, 115-121 Poinier, Newark, N. J. (See adv. index & branch offices, end of book)
 Larrabee, Jno. E. (Portable), Amsterdam, N. Y.
 Lord, Bowler Co., 1004 Centre av., Cleveland, O.
 Mason, Volney W. & Co. (Hand), Providence, R. I.
 Mine & Smelter Supply Co. (Hand for mines, etc.), Denver, Colo.
MOORE, FRANKLIN CO., Winsted, Conn. (See adv. index, end of book)
 Ney Mfg. Co., Canton, O.
NICHOLLS, WM. S. (Portable), 253 B'way, New York. (See adv. index in last column)
OTIS ELEVATOR CO., 17 Battery pl, New York. (See adv. index & branch offices, end of book)
 Quincy-Manchester-Sargent Co., Old Colony bldg., Chicago, Ill., & 114 Liberty, New York
READING CRANE & HOIST WORKS, Reading, Pa. (See adv. index, end of book)
SHAW, WILLIS, 171 LaSalle, Chicago, Ill. (See adv. preceding page)
SPEIDEL, J. G. (Hand Power), Buttonwood & Gordon, Reading, Pa. (See adv. index, end of book)
SPRAGUE CANNING MACHINERY Co. (Also Power for Cannery, etc.), 42 River, Chicago, Ill. (See adv. below)
TUOHY BROS. CO., 95 Liberty, New York. (See adv. index, end of book)
WARSAW ELEVATOR CO., Warsaw, N. Y., & Erie Co. B'k bldg., Buffalo, N. Y. (See adv. index & branch offices, end of book)

***Hoists (Hatchway & Out-Rigger)**

SEDGWICK MACHINE WORKS, Poughkeepsie, N. Y., & 128 Liberty, New York. (See adv. index, end of book)

***Hoists (High Speed)**

CHISHOLM & MOORE MFG. CO. ("Cy-clone" Chain), Lake & Kirtland, Cleveland, O. (See adv. index, end of book)

***Hoists (Horse)**

AMERICAN HOIST & DERRICK CO., St. Paul, Minn. (See adv. index & branch offices, end of book)

Hoists (Hydraulic)

ROBINS CONVEYING BELT CO., 19 Park row, New York. (See adv. index, end of book)
 Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Phila., Pa.
 Wood, R. D. & Co., 400 Chestnut, Phila., Pa.

***Hoists (Machine Shop, Portable)**

NICHOLLS, WM. S., 253 B'way, New York. (See adv. below)

Hoists (Mine)

Davis, F. M. Iron Works Co., Denver, Colo.
 Denver Engineering Works Co., Blake & 30th, Denver, Colo.
 Hassell Iron Works Co. (Also Horse Power), Colorado Springs, Colo.
 Mine & Smelter Supply Co. (for Mines, etc.), Denver, Colo.
OTIS ELEVATOR CO., 17 Battery pl, New York. (See adv. index & branch offices, end of book)
 Ottumwa Iron Works (Steam & Electric), Ottumwa, Iowa.
 Reliance Engine Co., San Francisco, Cal.

Hoists (Pneumatic)

(See Pneumatic Hoists)

Hoists (Portable)

NICHOLLS, WM. S. (Up to 6,000 lbs. Capacity), 253 B'way, New York. (See adv. index, end of book)
 Quincy-Manchester-Sargent Co., Old Colony bldg., Chicago, Ill., & 114 Liberty, New York

***Hoists (Quarry)**

BALANCED CABLE CRANE CO., THE, 135 William, N. Y. City (See adv. opp. last page of index of contents)
SHAW, WILLIS ("Quincy"), 171 LaSalle, Chicago, Ill. (See adv. index, end of book)

Hoists (Sidewalk)

(See Elevators—Sidewalk.)

Hoists (Steam)

Adrian Mfg. Co., Adrian, Mich.
ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. & branch offices, end of book)
AMERICAN HOIST & DERRICK CO., St. Paul, Minn. (See adv. index & branch offices, end of book)
 Box, Alfred & Co., 813 N Front, Phila., Pa.
 Browning Engineering Co., Cleveland, O.
BYERS, JOHN F., MACHINE CO., Ravenna, O. (See adv. index, end of book)
 Carlin Machy. & Supply Co., Allegheny, Pa.
CARLIN'S, THOS. SONS CO., 1300 River, Allegheny, Pa. (See adv. index, end of book)
 Contractors' Plant Mfg. Co., 129 Erie, Buffalo, N. Y.
DOBBIE FOUNDRY & MACHINE CO., Niagara Falls, N. Y., & 82 Warren, N. Y. (See adv. index & branch offices, end of book)
FAIRBANKS, MORSE & CO. (Steam Geared), Franklin & Monroe, Chicago, Ill. (See adv. index & branch offices, end of book)
FLORY, S. MFG. CO., Bangor, Pa. (See adv. index, end of book)
 Freeman, J. W., Joplin, Mo.
 Hunt, C. W. Co., 45 B'way, N. Y.; Works, W. New Brighton, N. Y.
 Jackson & Church Co., Saginaw, Mich.
LAMBERT HOISTING ENGINE CO., Main Office & Works, 115-121 Poinier, Newark, N. J. (See adv. index & branch offices, end of book)
LIDGERWOOD MFG. CO., 96 Liberty, N. Y., & Old Colony bldg., Chicago. (See adv. index & branch offices, end of book)
 Lord, Bowler & Co., 1004 Center ave., Cleveland, Ohio
 Marine Iron Co., Bay City, Mich.
MEAD-MORRISON MFG. CO., Cambridge (Boston), Mass., & 11 B'way, New York. (See adv. index & branch offices, end of book)
 Mineral Ridge Mfg. Co., Mineral Ridge, O.
MUNDY, J. S., 22 Prospect, Newark, N. J. (See adv. index & branch offices, end of book)
NATIONAL HOISTING ENGINE CO., Harrison, N. J. (See adv. index & branch offices, end of book)
NEW ALBANY MFG. CO. (Also Belt), New Albany, Ind.
N. Y. CABLEWAY & ENGINEERING Co., 1 Rector, New York. (See adv. index, end of book)
 Portage Lake Foundry & Machinery Co., Hancock, Mich.
 Risdon Iron Works, Stenart & Folsom, San Francisco, Cal.
ROBINS CONVEYING BELT CO., 19 Park row, New York. (See adv. index, end of book)
 Roteng Engineering Corporation, 299 B'way, N. Y.

SHAW, WILLIS, 171 LaSalle, Chicago, Ill. (See adv. index, end of book)
 Union Iron Works, 222 Market, San Francisco, Cal.
WELLMAN-SEEVER-MORGAN CO., Cleveland, O., & Akron, O. (See adv. index, end of book)
 Whitcomb Bros. (For Granite Quarries, etc.), Barre, Vt.
 Williamson Bros., Aramingo av & Cumberland, Phila., Pa.

Hoists (Telpher)

(See Telpherage, Electric Conveying)

***Hoists (Traveling)**

CASE MFG. CO. (Electric), St. Clair & Curtis ays., Columbus, O. (See adv. index, end of book)
 Cleveland Crane & Car Co. (Hand or Electric Power, etc.), Wickliffe, Ohio
DOBBIE FOUNDRY & MACHINE CO., Niagara Falls, N. Y., & 82 Warren, New York. (See adv. index & branch offices, end of book)
FREVERT MACHINERY CO., 18 Dey, New York. (See adv. index, end of book)
SPEIDEL, JNO. G., Buttonwood & Gordon, Reading, Pa. (See adv. index, end of book)

***Hoists (Warehouse, Portable)**

NICHOLLS, WM. S., 253 B'way, New York. (See adv. index, end of book)

Holders (Bag)

American Buncher Mfg. Co., Indianapolis, Ind.
 Blanchard, F. B. Mfg. Co. ("Perfection"), Lewiston, Minn.
 Booth Bros. (Cracker Jack), Batavia, Ill.
 Bowsher, N. P. Co., South Bend, Ind.
 Comstock, Geo. S., Mechanicsburg, Pa.
 Great Western Mfg. Co. ("Mosher"), Leavenworth, Kan.
 Nordyke & Marmon Co., Indianapolis, Ind.
 Pearson Mfg. Co. (Sack Holder), Edwardsville, Kan.
 South Bend Spark Arrester Co., South Bend, Ind.
 Sprout, Waldron & Co., Muncy, Pa.
STANDARD SCALE & SUPPLY CO., 243 Water, Pittsburg, Pa. (See adv. index, end of book)
 Webster Mfg. Co. ("Mosher"), 1075 W 15th, Chicago, Ill.

Holders (Brush)

Baylis Co. (For Electrical Machinery), 140 Wash'n, N. Y.
 Eureka Commutator Brush Co., 440 National av., Milwaukee, Wis.
 Eureka Tempered Copper Works, North East, Pa.
GENERAL ELECTRIC CO., Schenectady, N. Y., & 44 Broad, New York. (See adv. index & branch offices, end of book)
 Ohio Brass Co. (Adjustable Track), Mansfield, O.
 Perfection Supply Co. (Dynamo), 621 B'way, N. Y.
 Railway Steel Spring Co., 71 B'way, N. Y.

Holders (Candle)

Bernz, Otto (Plumbers), S 13th & S Orange av., Newark, N. J.

Holders (Carbon)

Central City Brass Mfg. Co., 120 B'nnet av., Syracuse, N. Y.
GENERAL ELECTRIC CO., Schenectady, N. Y., & 44 Broad, New York. (See adv. index & branch offices, end of book)
 Ohio Brass Co., Mansfield, O.
 Pass & Seymour, Solvay, N. Y.
 Peterson, John L. & Co. (1 piece, upper & lower), Galesburg, Ill.
 Phila. Electrical & Mfg. Co., 2011 Market, Phila., Pa.
 Turner Brass Works, 66 Michigan, Chicago, Ill.

Holders (Card & Label)

Corbin Cabinet Lock Co. (Bronze & Brass), New Britain, Conn.
 Eagle Lock Co., Terryville, Conn.
GRAMMES, L. F. & SONS, Allentown, Pa. (See adv. index, end of book)
 Novelty Mfg. Co., Waterbury, Conn.
 Phillips, A. J. Co., Fenton, Mich.
WILSON, F. CORTEZ & CO., 239 Lake, Chicago, Ill. (See adv. index, end of book)

Holders (Christmas Tree)

Donnelly, John ("Hub"), Branford, Conn.
National Novelty Corp., 826 B'way, New York
North Bros. Mfg. Co. ("Crown"), Lehigh av
& American, Phila., Pa.
Peck, C. A. Hdw. & Mfg. Co. ("Gem"), Berlin,
Wis.
Penn Hardware Co., Reading, Pa.
Phoenix Hdw. Co., Homer, N. Y.
Rhinelander Mfg. Co., Rhinelander, Wis.

Holders (Chucking Reamer)

Billings & Spencer Co. (Drop Forged), Hartford,
Conn.

***Holders (Die-Plate)**

PERKINS MACHINE CO., Warren,
Mass. (See adv. index, back of book)

Holders (Die & Tap)

AMERICAN TAP & DIE CO., Green-
field, Mass. (See adv. index, end of book)
BAY STATE TAP & DIE CO., Mans-
field, Mass. (See adv. index, end of book)
Beaman & Smith Co. (Tap), Providence, R. I.
Braunsdorf-Mueller Co., Elizabeth, N. J.
Butterfield & Co., Derby Line, Vt.
Card, S. W. Mfg. Co. (Die Holders only), Maus-
field, Mass.
Carpenter, J. M., Tap & Die Co. (Bit Brace
Lathe, Pawtucket, R. I.
Geometric Tool Co. (Reversion of Tap Holder),
New Haven, Conn.
Hartford Machine Screw Co., Hartford, Conn.
Modern Tool Co., Erie, Pa.
MORSE TWIST DRILL & MACHINE
Co., New Bedford, Mass. (See adv. index,
end of book)
Polk, A. J. & Son (Bit Brace), Millersburg, Pa.
Power Specialty Co. ("Diamond"), Detroit,
Mich.
Pratt & Whitney Co., Hartford, Conn.
Quint, A. D. (Tap), Hartford, Conn.
Reece, E. F. Co., Greenfield, Mass.
WELLS BROS. CO. ("Little Giant"
Drill, etc.), Greenfield, Mass. (See adv. in-
dex, end of book)
Wiley & Russell Mfg. Co. ("Lightning"), Green-
field, Mass.

Holders (Door)

(See Door Stops)

Holders (Electric Drop Lamp)

Gail-Webb Mfg. Co. ("Universal"), Buffalo,
N. Y.

Holders (Electric Lamp)

Brady, T. H., New Britain, Conn.
Bunnell, J. H. & Co., 20 Park pl, N. Y.
Farles Mfg. Co. (Adjustable), Decatur, Ill.
Ohio Electric Specialty Mfg. Co., Troy, Ohio
Roome Mfg. Co. (Radial), Columbus, Ohio.
Zephyr Ventilator Mfg. Co. (Radial), Phila., Pa.

Holders (Extension Bit)

(See Bits, Expansive)

Holders (File)

Western Tool & Mfg. Co. ("Lutz" Universal),
Springfield, O.

Holders (Fishing Rod)

Franklin Specialty Co. ("Rambler"), Reading,
Pa.

Holders (Flag Pole)

Enterprise Mfg. Co., 3d & Dauphin, Phila., Pa.
NATIONAL SUPPLY CO., 7 W. Lom-
bard, Baltimore, Md. (See adv. index, end
of book)
Safety Meter Lock Co., Columbus, O.

Holders for Bit Brace

Wiley & Russell Mfg. Co., Greenfield, Mass.

Holders (Gas)

(See Gas Holders)

Holders (Label)

(See Holders, Card & Label)

Holders (Mop)

(See Mop Sticks & Holders)

Holders (Pipe Nipple)

American Pin Co. (Brass), Waterbury, Conn.
ARMSTRONG MFG. CO., Bridgeport,
Conn., & 139 Centre, New York. (See adv.
index, end of book)
Curtis & Curtis Co., Bridgeport, Conn.
Fee & Mason (& for Flush Pipes), 81 Beekman,
N. Y.
Merrell Mfg. Co., Toledo, O.
Walworth Mfg. Co., 132 Federal, Boston, Mass.

Holders (Radial Light)

Roome Mfg. Co. (Gas & Electric), Union Nat'l
B'k bldg, Columbus, O.

***Holders (Revolving Twist Drill)**

NEW PROCESS TWIST DRILL CO.,
Taunton, Mass. (See adv. index, end of book)

Holders (Sack or Bag)

(See Holders, Bag.)

Holders (Sandpaper)

Reissmann, F., West Point, N. Y.

Holders (Scraper)

Western Tool Mfg. Co. ("Lutz" & "Lutz Uni-
versal"), Springfield, O.

Holders (Shade or Globe)

American Belgian Lamp Co., 47 Barclay, N. Y.
American Electric Co., Detroit, Mich.
Bryant Electric Co. (Electric), Bridgeport, Conn.
Gem Shade Holder Co. ("Gem"), 11 E 30th,
N. Y.
Gleason, E. P. Mfg. Co., 37 Murray, New York
Hubbell, Harvey (Inc.) ("Hubbell" Shade),
Bridgeport, Conn.
J-E-M Shade Holder Co. ("J-E-M" for Incandes-
cent Lights), 13 E 30th, N. Y.
McFadden, H. G. & Co., 38 Warren, N. Y.
Mauhattan Brass Co., 338 E 28th, N. Y.
Mitchell-Vance Co., 836 B'way, N. Y.
Pass & Seymour, Solvay, N. Y.
Plume & Atwood Mfg. Co. (Gas & Electric
Globe), Waterbury, Conn.
Remhof, Chas., 381 Kent av, Brooklyn, N. Y.
Steele & Johnson Mfg. Co., Waterbury, Conn.
Waterbury Brass Goods Corp., Waterbury, Conn.
Waterbury Mfg. Co., Waterbury, Conn.

***Holders (Stake)**

STANLEY WORKS (Wrought Steel),
New Britain, Conn., & 79 Chambers, New
York. (See adv. index, end of book)

Holders (Tap)

(See Holders, Die & Tap)

***Holders (Tillery Copper
Canning)**

SPRAGUE CANNING MACHINERY
Co., 42 River, Chicago, Ill. (See adv. in-
dex, end of book)

Holders (Tire Bolt)

Wiley & Russell Mfg. Co. ("Green River"),
Greenfield, Mass.

Holders (Toilet Paper)

A. P. W. Paper Co., Albany, N. Y.
Cassady-Fairbanks Mfg. Co., 6106 La Salle,
Chicago, Ill.
Franklin Specialty Co., Reading, Pa.
Ohio Pump & Brass Co. (Nickel Plated Cast
Brass), Columbus, O.
Shelby Spring Hinge Co. ("Satin," "Silk,"
Steel & Brass), Shelby, O.

Holders (Tool, Etc.)

Allman Gas Engine & Machine Co. ("Miller"
Lathe), 29 Sullivan, New York
Armstrong Bros. Tool Co., 104 N San Francis-
co av, Chicago, Ill.
BAY STATE TAP & DIE CO. (Die,
Bit, Brace & Lathe), Mansfield, Mass. (See
adv. index, end of book)
Beaman & Smith Co. (Safety Drill & Tap),
Providence, R. I.
Billings & Spencer Co., Hartford, Conn.
Bown Machine Co. ("Bown," for Lathe, Shaft
& Plauer), Battle Creek, Mich.
Brown & Sharpe Mfg. Co. (For Screw Machines,
etc.), Providence, R. I.
Cleveland Twist Drill Co., Cleveland, O.
Detroit Twist Drill Co. (Lathe Drill), De-
troit, Mich.
Dwight Slate Machine Co., Hartford, Conn.
Errington, Franklin A., 39 Cortlandt, N. Y.
Fairbanks Co. ("United States"), Springfield, O.
Goodell-Pratt Co., Greenfield, Mass.
Hartford Machine Screw Co., Hartford, Conn.
Hill Standard Mfg. Co. ("Hill" & "Eber-
hardt"), Anderson, Ind.
Hoggson & Pettis Mfg. Co. (Carr's Combina-
tion), New Haven, Conn.
Jeansville Iron Works Co., Jeansville, Pa.
Keystone Mfg. Co. ("Morse" Boring Tool), 41
Chandler, Buffalo, N. Y.
Le Count, Wm. G. (Chuck Drill), South Nor-
walk, Conn.
Mingst, C. P. (Lathe & Planer), Evansville,
Ind.
Modern Tool Co. (Die, Tap, etc.), Erie, Pa.
O. K. Tool Holder Co., Shelton, Conn.
Polk, A. J. & Son (Drill, Die, etc.), Millersburg,
Pa.
Pratt & Whitney Co., Hartford, Conn.
Reece, Edward F. Co., Greenfield, Mass.
Storey, B. W. (For Lathe & Planer), Mt. Holly,
Springfield Foundry Co. ("United States"),
Springfield, O.
Western Tool & Mfg. Co. ("The Champion"),
Springfield, O.

Holders (Tumbler, Etc.)

Wire Goods Co., Worcester, Mass.

Holders (Twine)

Introstyle Novelty Mfg. Co. ("Ideal"), Mari-
etta, O.
New York Roll Wrapping Paper Co. ("Simplex"
Popular), 536 Pearl, New York
Streeter, N. R. & Co., Rochester, N. Y.
West Mfg. Co., Columbus, O.

Holders (Wire)

Fletcher Mfg. Co. (For Electrical Construction),
Dayton, O.

Hollow Ware Mfrs.

(See Enameled Hollow Ware)

Hones (Razor)

Pike Mfg. Co., Pike Station, N. H., & 151
Chambers, N. Y.

Hoods (Conning Tower)

Morton, Robert E., 26 South, New York

Hoods (Motor)

BADGER, E. B. & SONS CO., 75 Pitts,
Boston, Mass. (See adv. index, end of book)
Briscoe Mfg. Co., 1427 Woodward av, Detroit,
Mich.
Detroit Carriage Co., Clay av nr St. Aubin av,
Detroit, Mich.
Kells, W. J. Mfg. Co., Newark & West Side
avs, Jersey City, N. J.
Kinsey Mfg. Co., 1126 E 3, Dayton, O.
Long Turvey Mfg. Co., Rome, N. Y.
Quinby, J. M. & Co., 27 Division, Newark, N. J.
Neustadt, J. H. Co., 826 S 18th, St. Louis, Mo.
Reading Metal Body Co., 8th & Chestnut, Read-
ing, Pa.
Springfield Metal Body Co., Birnie av, Spring-
field, Mass.
Trageser, John, Steam Copper Works, 447 W
26th, New York
U. S. Aluminum Co., Park bldg, Pittsburgh, Pa.
Walker, James & Son, 43 Jefferson av, Detroit,
Mich.

Hoods (Spray)

Durkee, C. D. & Co., 2 South, New York
Jones & Robinson, 83 Front, New York
McClellan, Chas. P. ("Simplicity"), Fall River, Mass.

Hoods & Protectors (Arc Lamp)

Adams & Westlake Co., Ontario & N Franklin, Chicago, Ill.
American Reflector & Lighting Co., 201 Van Buren, Chicago, Ill.
Brady, T. H., New Britain, Conn.
Cornwall, R. M. Co., Syracuse, N. Y.
Cutter, Geo. Co., 129 Fulton, Chicago
Fletcher Mfg. Co., Dayton, O.
Fort Wayne Electric Works (Inc.), Ft. Wayne, Ind.

GENERAL ELECTRIC CO., Schenectady, N. Y., & 44 Broad, New York. (See adv. index & branch offices, end of book)
Klemm & Co., 132 N 5th, Phila., Pa.
Mcserve, F. W., South Framingham, Mass.
Phila. Electrical & Mfg. Co. (Copper Incandescent, Street), 2011 Market, Phila., Pa.
Tea Tray Co., 408 Mulberry, Newark, N. J.
Western Electric Co., 259 S Clinton, Chicago, Ill. & 57 Bethune, N. Y.
Wheeler Reflector Co., 156 Pearl, Boston, Mass.

Hook & Eye Mfrs.

Star Pin Co. (Dress, Pants, Cloak & Military), Derby, Conn.
Turner & Seymour Mfg. Co. (And Specialties), Torrington, Conn.

***Hooks (Anchor Trip)**

McMILLAN'S, W. H. SONS, 153 South, York. (See adv. index, end of book)

Hooks (Awning)

AMERICAN STEEL & WIRE CO., The Rookery, Chicago, Ill. (See adv. index & branch offices, end of book)
Brewer Bros. (Wrought Iron), 614 Filbert, Phila., Pa.
Hazel Atlas Glass Co., Wheeling, W. Va.
Humason & Beckley Mfg. Co., "Wrought," New Britain, Conn.
Wilcox, Crittenden & Co., Middletown, Conn.

Hooks (Bale & Box)

Duffy Mfg. Co., 125 Indiana, Chicago, Ill.
Wilcox, Crittenden & Co., Middletown, Conn.

Hooks (Barrel)

Wilcox, Crittenden & Co., Middletown, Conn.

Hooks (Belt)

(See Belt Fasteners)

Hooks (Bench)

Dicke Tool Co., Downers Grove, Ill.
Hoague, J. H., Chicopee, Mass.
Phoenix Hardware Mfg. Co., Homer, N. Y.
Smith, Seymour & Son (Reversible & Screw Adjusting), Oakville, Conn.
Stearns, E. O. & Co., Syracuse, N. Y.
Stover Mfg. Co., Freeport, Ill.
Vaughan & Bushnell Mfg. Co., 877 Carroll av, Chicago
WHIPPLE, R. P. & CO. (Carpenters), 275 Main, Springfield, Mass. (See adv. index, end of book)

Hooks (Bill)

American Axe & Tool Co., Glassport, Pa., & 253 B'way, New York

Hooks (Bird Cage)

Arcade Mfg. Co. (Swinging, etc.), Freeport, Ill.
Pratt, Wm. E. Mfg. Co., 91 Lake, Chicago, Ill.
Reading Hardware Co., Reading, Pa.
Wire Goods Co., Worcester, Mass.

Hooks (Boat & Mooring)

Durkee, C. D. & Co. ("Jacoby"), 2 South, New York
Laughlin, Thos. Co., Portland, Me.
Marine Hardware Co., Peabody, Mass.
Shelton Co., Derby, Conn.
Wilcox, Crittenden & Co., Middletown, Conn.

Hooks (Box)

(See Hooks, Cotton & Box.)

Hooks (Brass Cup & Shoulder)

Brooks, M. S. & Sons, Chester, Conn.

Hooks (Bush)

American Axe & Tool Co. (Strapped Eye, etc.), Glassport, Pa., & 253 B'way, N. Y.
Bradley's, G. W. Sons (Inc.), Westport, Conn.
Collins Co., Collinsville, Conn.
Evansville Tool Works, Evansville, Ind.
Iwans Bros., Streator, Ill.
Mack & Co., Rochester, N. Y.
Peck, Stow & Wilcox Co., Southington, Conn., & 27 Murray, N. Y.
Plumb, Fayette R., James & P. R. R., Phila., Pa.
Wadsworth, David & Son, Auburn, N. Y.

Hooks (Cabin Door)

Corbin Cabinet Lock Co., New Britain, Conn.
Reading Hardware Co., Reading, Pa.

Hooks (Cant)

(See Canthooks.)

Hooks (Carrying)

Klein, Mathias & Son, 87 Van Buren, Chicago, Ill.

Hooks (Ceiling)

Arcade Mfg. Co. ("Arcadian" Bronze), Freeport, Ill.
Jenckes, E. Mfg. Co. ("Crescent" & "Jenckes" Wire), Pawtucket, R. I.
National Novelty Corp., 826 B'way, New York
Penn Hardware Co., Reading, Pa.
Reading Hardware Co., Reading, Pa.
Susquehanna Casting Co., Wrightsville, Pa.
Western Brass Mfg. Works (Brass & Bronze), 21st & Rockwell, Chicago, Ill.
Wire Goods Co., Worcester, Mass.

Hooks (Clam)

Continental Tool Co., Frankfort, N. Y.

Hooks (Clothes Line)

Franklin Specialty Co. ("Perfection"), Reading, Pa.
National Novelty Corp., 826 B'way, New York
NATIONAL SUPPLY CO., 7 W Lombard, Baltimore, Md. (See adv. index, end of book)
Penn Hardware Co., Reading, Pa.
Reading Hardware Co., Reading, Pa.
Vaughn & Bushnell ("V. & B." Steel Screw or Drive), 875 W Carroll av, Chicago, Ill.
Wilcox, Crittenden & Co., Middletown, Conn.
Wire Goods Co., Worcester, Mass.

Hooks (Coat & Hat)

Atlas Mfg. Co. ("Bradley"), New Haven, Conn.
Bromwell Co. (Wire), Cincinnati, O.
Columbian Hardware Co., Coe & Hamilton, Cleveland, Ohio, 168 Church st., New York
Jenckes, E. Mfg. Co. ("Crescent" & "Invisible" Wire), Pawtucket, R. I.
Landers, Frary & Clark, New Britain, Conn.
Lloyd Mfg. Co., Minneapolis, Minn.
Ossawan Mills Co., Norwich, Conn.
Parker Wire Goods Co. (Wire), Worcester, Mass.
Penn Hardware Co., Reading, Pa.
Reading Hardware Co., Reading, Pa.
Western Brass Mfg. Works (Brass & Bronze), 21st & Rockwell, Chicago, Ill.
Wilcox, Crittenden & Co. (Galvanized Iron or Brass), Middletown, Conn.
Wire Goods Co. (Brass & Steel), Worcester, Mass.
Wrightsville Hdw. Co., Wrightsville, Pa.

Hooks (Conductor Pipe)

EDWARDS MFG. CO., Eggleston av, & 4th & 5th, Cincinnati, O. (See adv. index & branch offices, end of book)
Iwan Bros., Streator, Ill.
MILWAUKEE CORRUGATING CO., Milwaukee, Wis. (See adv. index, end of book)
Vaughn & Bushnell Mfg. Co. ("V. & B." Drop Forged), 875 W Carroll av Chicago, Ill.

Hooks (Corn)

Clyde Cutlery Co., Clyde, O.
North Wayne Tool Co., Hallowell, Me.
Wilkinson Shear & Cutlery Co., Reading, Pa.

Hooks (Cornice)

Jenckes, E. Mfg. Co. (Wire), Pawtucket, R. I.

Hooks (Cotton & Box)

Bernz, Otto, S 13th & S Orange av, Newark, N. J.
Braunsdorf-Mueller Co., Elizabeth, N. J.
Carver Tool Works, Spring Valley, N. Y.
Falls Mfg. Co. (Hay, Bale, Box & Cargo Hooks), San Francisco, Cal.
Humason & Beckley Mfg. Co., New Britain, Conn.
Johnson, Wm. (Hedenberg Works), Newark, N. J.
New London Vise Works (Bale, Box, Can, Barrel, etc.), New London, Conn.
Vaughn & Bushnell Mfg. Co. ("V. & B." Wood or Steel Handle), Chicago, Ill.
Watson, Thomas ("Butler's"), 557 W. 35th, New York
Wilcox, Crittenden & Co., Middletown, Conn.
Zering, H. Mfg. Co., Cincinnati, O.

Hooks (Crate & Basket)

Cobb & Drew, Plymouth, Mass., & Rock Falls, Ill.

Hooks (Gaff)

Meisselbach, A. F. & Bro., Newark, N. J.

Hooks (Gate)

(See Hooks & Eyes, Gate)

Hooks (Grab)

ANDERSON, W. H. TOOL & SUPPLY Co., 14 Macomb, Detroit, Mich. (See adv. index, end of book)
BYERS, JNO. F. MACHINE CO. (or Chain), Ravenna, O. (See adv. index, end of book)
Champion Tool & Handle Works, Ewart, Mich.
Contractors' Plant Mfg. Co., 129 Erie, Buffalo, N. Y.
DOBBIE FOUNDRY & MACHINE CO., Niagara Falls, N. Y., & 82 Warren, N. Y. (See adv. index & branch offices, end of book)
Hayden-Corbett Chain Co. (For Log Chains, etc.), Columbus, O.
Seneca Chain Co., Kent, O.
Solid Steel Tool & Forge Co., Brackenridge, Pa.
Wallingford Mfg. Co. ("Borden's"), Wallingford, Vt.

Hooks (Grass)

American Axe & Tool Co., Glassport, Pa., & 253 B'way, New York
Dunn Edge Tool Co., Oakland, Me.
Indiana Edge Tool Co. ("Premier," "Easy," "Superior," "Hercules," "Acme," "Electric,") Gas City, Ind.
Mack Co., Rochester, N. Y.
Nolin Mfg. Co. ("Nolin," "Crescent" & "Concave"), Skowhegan, Me.

Hooks (Guy Wire)

Lang, M. & Sons, 29th & Carton, Pittsburg, Pa.

Hooks (Hammock)

Arcade Mfg. Co., Freeport, Ill.
Brewer Bros. (Wrought Iron), 614 Filbert, Phila., Pa.
Brooks, M. S. & Sons (Wrought), Chester, Conn.
Corbin, P. & F., New Britain, Conn.
Hazel Atlas Glass Co., Wheeling, W. Va.
Keystone, Drop Forge Co. (Drop Forged), Chester, Pa.
Landers, Frary & Clark, New Britain, Conn.
Palmer, I. E. (Adjustable), Middletown, Conn.
Penn Hardware Co., Reading, Pa.
Wilcox, Crittenden & Co., Middletown, Conn.
Wire Goods Co. (Wrought), Worcester, Mass.

Hooks (Harness)

Arcade Mfg. Co. (Japanned), Freeport, Ill.
Brooks, M. S. & Sons, Chester, Conn.
Falls Mfg. Co. (For Hames, Fire Dept. Harness, etc.)
National Novelty Corp., 826 B'way, New York

NATIONAL SUPPLY CO., 7 W Lombard, Baltimore, Md. (See adv. index, end of book)
 North & Judd Mfg. Co., New Britain, Conn.
 Penn Hardware Co., Reading, Pa.
 Pratt, Wm. E. Mfg. Co., 91 Lake, Chicago, Ill.
 Reading Hardware Co., Reading, Pa.
 Sovereign, C. E. Co., Rockford, Ill.
 Wire Goods Co. (Wire), Worcester, Mass.

Hooks (Hay)

Vaughn & Bushnell Mfg. Co. ("V. & B." Steel"), 875 W Carroll av, Chicago, Ill.
 Wilcox, Crittenden & Co., Middletown, Conn.

Hooks (Hitching)

Brewer Bros. (Wrought Iron), 614 Filbert, Phila., Pa.

Hooks (Hoist)

ANDERSON, W. H. TOOL & SUPPLY Co., 14 Macomb, Detroit, Mich. (See adv. index, end of book)
DOBBIE FOUNDRY & MACHINE CO., Niagara Falls, N. Y., & 82 Warren, N. Y. (See adv. index & branch offices, end of book)
 Keystone Drop Forge Works (Drop Forged), Chester, Pa.
 Morris, Herbert, Betz bldg, Philadelphia, Pa.
 Solid Steel Tool & Forge Co. (with Eye & Shank), Brackenridge, Pa.

Hooks (Ice)

American Fork & Hoe Co. (Steel), Main office, Cleveland, O.
 Hiles, C. A. & Co. (Hile's Patent Socket), 14th & Western av, Chicago, Ill.
 Stortz, John & Son, 210 Vine, Philadelphia, Pa.

Hooks (Insulated)

Cutter, Geo. Co., 129 Fulton, Chicago, Ill.

Hooks (Ladder)

Brewer Bros. (Wrought Iron), 614 Filbert, Philadelphia, Pa.
 Moulton, C. W. & Co., Somerville, Mass.

Hooks (Lamp)

Reading Hardware Co., Reading, Pa.

Hooks (Lumbermen's)

CARPENTER, GEO. B. & CO., 202 S Water, Chicago, Ill. (See adv. index, end of book)
 Champion Tool & Handle Works (Lug, Grappling, Swamp, etc.), Ewart, Mich.
 Oshkosh Logging Tool Co. (Lug, Grappling, Swamp, etc.), Oshkosh, Wis.

Hooks (Meat)

Humason & Beckley Mfg. Co., "Wrought," New Britain, Conn.
 Vaughn & Bushnell Mfg. Co. ("V. & B." Steel"), 875 W Carroll av, Chicago, Ill.
 Wire Goods Co. (Wrought), Worcester, Mass.

Hooks (Moulding)

Novelty Mfg. Co., Waterbury, Conn.
 Wire Goods Co., Worcester, Mass.

Hooks (Packing)

STRONG MACHINERY & SUPPLY CO. ("Strong's" Lightning & Improved Old Style), 48 Franklin, New York. (See adv. index, end of book)

Hooks (Picture)

Brewer Bros. (Wrought Iron), 614 Filbert, Phila., Pa.
 Brooks, M. S. & Sons (Also Brass Tassel Hooks, etc.), Chester, Conn.
 Peckham, John A., 958 Grand av, New Haven, Conn.
 Wire Goods Co. (Brass, etc.), Worcester, Mass.

Hooks (Pipe)

Avery Stamping Co. ("Never-Break" Steel Plates), Cleveland, O.
 Boston Bolt Co., 284 Franklin, Boston

Brewer Bros. (Wrought Iron), 614 Filbert, Phila., Pa.
 Climax Specialty Co., Seneca Falls, N. Y.
 Crane Co. (Est. 1855), 519 S. Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
 Devlin, Thos. Mfg. Co., 3d & Lehigh av, Phila., Pa.
 Exeter Machine Works, Exeter, N. H., & 32 Oliver, Boston, Mass.
 Falls Mfg. Co., San Francisco, Cal.
 Jarecki Mfg. Co., Erie, Pa., & Pittsburg, Pa.
 Lalance & Grosjean Mfg. Co., 19 Cliff, New York

Lange, August K., 606 E 15th, New York
 Newbury Mfg. Co., Monroe, N. Y.
 New England Bolt & Nut Co. (Pipe Hooks), 267 Atlantic av, Boston, Mass.
 Sargent & Co., New Haven, Conn., & 94 Centre, Western Tube Co., Kewanee, Ill. New York

Hooks (Potato, Manure, Etc.)

American Fork & Hoe Co., Main office, Cleveland, O.
 Brown, Hinman & Huntington Co., Memphis, Tenn.
 Continental Tool Co., Frankfort, N. Y.
 Harriman Hoe & Tool Co., Harriman, Tenn.
 Withington & Cooley Mfg. Co., Jackson, Mich.

*Hooks (Releasing, for Davits Raymonds)

McMILLAN'S, W. H. SONS, 153 South, York. (See adv. index, end of book)

Hooks ("S" or "Eight")

Brewer Bros. (Wrought Iron), 614 Filbert, Phila., Pa.
 Brooks, M. S. & Sons (Iron or Brass Wire), Chester, Conn.
 Plume & Atwood Mfg. Co., Waterbury, Conn.
 Smith & Egge Mfg. Co., Bridgeport, Conn.
 Wilcox, Crittenden & Co., Middletown, Conn.
 Wire Goods Co., Worcester, Mass.

*Hooks (Safety, for Mine Cages)

WELLMAN-SEEVER-MORGAN CO., Cleveland, O., & Akron, O. (See adv. index, end of book)

Hooks (Sash Pull)

Reading Hardware Co., Reading, Pa.

Hooks (School House)

Wrightsville Hardware Co., Wrightsville, Pa.

Hooks (Screw)

Brewer Bros. (Wrought Iron), 614 Filbert, Phila., Pa.
 Brooks, M. S. & Sons (Iron & Brass Wire), Chester, Conn.
 Humason & Beckley Mfg. Co., New Britain, Conn.
 Jenckes, E. Mfg. Co. (Brass Wire), Pawtucket, R. I.
 Solid Steel Tool & Forge Co., Brackenridge, Pa.
 Wilcox, Crittenden & Co., Middletown, Conn.
 Wire Goods Co. (Bright Wire & Brass Wire), Worcester, Mass.

Hooks (Shackle)

Keystone Drop Forge Works ("Keystone," Safety), Chester, Pa.
 Morris, Herbert, Betz bldg, Philadelphia, Pa.

Hooks (Shave)

BERNZ, OTTO, S 13th & S Orange av, Newark, N. J. (See adv. index, end of book)
 Johnson, Wm. (Hedenberg Works) Newark, N. J.

Hooks (Shoe & Glove)

Klein, M. & Bro., ("M. K. & B."), Bridgeport, Conn.

Hooks (Sign)

Brewer Bros. (Wrought Iron), 614 Filbert, Phila., Pa.

Hooks (Snap)

Wilcox, Crittenden & Co., Middletown, Conn.
 Billings & Spencer Co. ("Billings" Drop Forged, Rein Pole & Chain), Hartford, Conn.

Hooks (Stable Door)

Peters, Jas. & Son (Wrought Iron), 1934 N Front, Phila., Pa.

Hooks (Tag)

Wire Specialty Co. ("Ideal"), 26 W Randolph, Chicago, Ill.

Hooks (Telephone Hanger)

Wire Specialty Co., 26 W Randolph, Chicago, Ill.

Hooks (Towing)

Chase Machine Co. ("Releasing"), 111 Elm, Cleveland, O.

Hooks (Truck)

Dixie Mfg. Co. ("Dixie"), Bourse bldg, Phila., Pa.

Hooks (Window Pole)

Western Brass Mfg. Works (Brass & Bronze), 21st & Rockwell, Chicago, Ill.

Hooks (Wire)

Brooks, M. S. & Sons (all kinds Brass & Iron), Chester, Conn.
MILWAUKEE CORRUGATING CO., Milwaukee, Wis. (See adv. index, end of book)
 Wire Goods Co. ("Drive"), Worcester, Mass.

*Hooks & Eyes (Brace)

BREWER BROS. (Wrought Iron), 614 Filbert, Phila., Pa.

Hooks & Eyes (Brass & Steel)

Wire Goods Co., Worcester, Mass.

Hooks & Eyes (Gate)

Brooks, M. S. & Son, Chester, Conn.
 Humason & Beckley Mfg. Co., New Britain, Conn.
 Jenckes, E. Mfg. Co. (Iron & Brass), Pawtucket, R. I.
 Wire Goods Co., Worcester, Mass.

Hooks & Eyes (Tent)

Wilcox, Crittenden & Co. (Brass), Middletown, Conn.

Hooks & Rings (Plate)

Wilcox, Crittenden & Co., Middletown, Conn.

Hooks & Tees (Chain)

Dayton Malleable Iron Co., Dayton, O.
 New Castle Forge & Bolt Co., New Castle, Pa.

Hoop Drives

Brewer Bros. (Wrought Iron), 614 Filbert, Phila., Pa.

*Hoop Rounders

SHUSTER, F. B. CO., New Haven, Conn. (See adv. index, end of book)

Hoops (Mast)

Laughlin, Thos. Co. (Galvanized Wrought Iron), Portland, Me.
McMILLAN'S, W. H. SONS, 153 South, York. (See adv. index, end of book)
 Moffitt, J. D., Scotland, Conn.

Hoops (Soft Steel)

De Haven Mfg. Co., 50 Columbia Heights, Brooklyn, N. Y.

Hoops (Truss)

Cincinnati Truss Hoop Co. (Iron & Steel Barrel), Front & Freeman av, Cincinnati, O.

***Hoops (Wire)**

AMERICAN STEEL & WIRE CO.
The Rockery, Chicago, Ill. (See adv. index
& branch office, end of book)

Hoppers (Grain)

Barnard & Leas Mfg. Co. (On Trucks, etc.),
Moline, Ill.

Hoppers for Power Plants

Pollock, Wm. B. Co. (Large Capacity), Youngs-
town, O.

Hoppers (Loading)

Briggs, J. E. Labor Saving Specialty Co.
("Lightning," for Stone, Sand, Coal &
Coke), Waterloo, Ia.

DODGE MFG. CO., Mishawaka, Ind.
(See adv. index & branch offices, end of book)
Pearsou Mfg. Co. (Portable, for Agricultural
Purposes), Edwardsville, Kans.

Horn Blowers (Foot)

King Dodo Horn Co., Piqua, Ia.
Pneumatic Tire Protector Co., 14 St. Clair,
Dayton, O.

Horns (Automobile)

Automobile Supply Mfg. Co. ("Consonance,"
"Sonora"), 320 Driggs av., Brooklyn, N. Y.
Funke, A. H., 83 Chambers, New York
Gabriel Horn Mfg. Co., 970 Hamilton, Clevel-
land, O.

Hutchison Electric Horn Co., 1 Madison av.,
King Dodo Horn Co., Piqua, O. New York
Miller, Cbas. E. (Imported), 97 Reade, New
York

Motor Car Equipment Co., 55 Warren, New
York

Post & Lester Co. ("Volier"), Hartford, Conn.
Riley-Klitz Mfg. Co., 19 Mulberry, Newark,
N. J.

Stevens & Co. ("Esco"), 99 Chambers, New
York

Twentieth Century Mfg. Co. ("Twentieth Cen-
tury"), 19 Warren, New York
Willis, E. J. Co., 10 Park pl, New York

Horns (Fog)

(See also Whistles, Automobile & Motor Boat)
Funke, A. H., 83 Chambers, New York
Hutchison Electric Horn Co., 1 Madison av.,
Lothrop, L. D., Gloucester, Mass. New York
Motor Car Equipment Co., 55 Warren, New
York

Willis, E. J. Co., 10 Park pl, New York

Horse Collars

Given, R. & Son Co. (Pneumatic), Sidney, O.
Thomson, Alex (Steel Hameless), Pithsburg,
Mass.

Horse Measurers

Smith, S. O., 24 Prospect, Newark, N. J.

Horse Powers

Alamo Iron Works San Antonio, Tex.
Advance Thresher Co., Battle Creek, Mich.
Andes, W. D. & Son, Leacock, Pa.
Antman & Taylor Machinery Co., Mansfield, O.
Barnard & Leas Mfg. Co., Moline, Ill.
Bell, C. S. Co., Hillsboro, O.
Belle City Mfg. Co. (Sweep), Racine, Wis.
Bodley Wagon Co., Memphis, Tenn.
Buffalo Pitts Co. ("Dingle-Woodbury"), Buffalo,
N. Y.

Case, J. I. Threshing Machine Co., Racine, Wis.
Cardwell Machine Co., Richmond, Va.
Collins Plow Co. (4 to 6 Horse Triple Geared),
Quincy, Ill.

Contractors' Plant Mfg. Co., 127 Erie, Buffalo,
N. Y.

DOBBIE FOUNDRY & MACHINE CO.
Niagara Falls, N. Y., & 82 Warren, N. Y.
(See adv. index & branch offices, end of book)
Ellis Keystone Agricultural Works (Lever, Iron
Frame), Pottstown, Pa.

Eureka Bark Mills Co., Lancaster, Pa.
Farquhar, A. B. Co., York, Pa.
Fouts, Oliver H., Richmond, Ind.
Freeman S. & Sons Mfg. Co. (Sweep & Over-
head), Racine, Wis.

Gehl Bros. Mfg. Co., West Bend, Wis.
Gelser Mfg. Co., Waynesboro, Pa.

Globe Foundry & Machine Co., Sheboygan, Wis.
Gowanda Agricultural Works, Gowanda, N. Y.
Gray's, A. W. Sons, Middletown, Vt.
Greenville Implement Co., Greenville, Mich.
Harrison Machine Works, Belleville, Ill.
Heebner & Sons, Lansdale, Pa.
Hildreth Bros., Harvard, Mass.
Howell, R. R. & Co., Minneapolis, Minn.
Huber Mfg. Co., Marion, O.

International Harvester Co. of America, 7 Mon-
roe, Chicago, Ill.

Keystone Farm Machine Co., York, Pa.
Kliue, Lewis T., Alpena, Mich.
Lehr Agricultural Co., Fremont, O.
McLean, J. H. Co., Canton, O.

Marion Mfg. Co., Marion, O.
Marsilles Mfg. Co. (And Jacks), Marseilles, Ill.
Messinger Mfg. Co., Tatamy, Pa.
Myers, F. E. & Bro., Ashland, O.

New Winona Mfg. Co. ("Diamond Winona"),
Winona, Minn.
Nichols & Shepard Co. (Steel Frame), Battle
Creek, Mich.

Portable Elevator Mfg. Co., Bloomington, Ill.
Rowell, I. B. Co., Menominee Falls, Wis.
St. Albans Foundry & Implement Co. (Sweep &
Tread), St. Albans, Vt.

Salem Iron Works, Salem, N. C.
Sandwich Mfg. Co. ("Samson," Sweep), Sand-
wich, Ill.

Smith & Pomeroy Wind Mill Co., Kalamazoo,
Mich.

Squier, Geo. L. Mfg. Co., Buffalo, N. Y.
Stover Mfg. Co., Freeport, Ill.
Warner Elevator Mfg. Co., Warner, Ill.

Weizelman Mfg. Co., Galesburg, Ill.
Wilder-Strong Implement Co., Monroe, Mich.

Horse Powers (Tread)

Appleton Mfg. Co., Batavia, Ill.
Belle City Mfg. Co., Racine, Wis.
Ellis Keystone Agricultural Works, Pottstown,
Pa.

Farquhar, A. B. Co. (Ltd.), York, Pa.
Gowanda Agricultural Works Co. (Dog or Sheep
Power), Gowanda, N. Y.

Messinger Mfg. Co. (The Reynolds Horse or
Baby), Tatamy, Pa.
Orangeville Agricultural Works, Orangeville, Pa.

St. Albans Foundry & Implement Co., St. Al-
Sandwich Mfg. Co., Sandwich, Ill. bans, Vt.
Smalley Mfg. Co. (Sweep), Manitowoc, Wis.

Squier, Geo. L. Mfg. Co., Buffalo, N. Y.
Star Mfg. Co., Carpentersville, Ill.
U. S. Wind Engine & Pump Co., Batavia, Ill.
Whitman Agricultural Co., St. Louis, Mo.

Horse Shoe Calks

(See Toe Calks, Steel).

Hose (Acid)

Goodrich B. F. Co., Akron, O.
Voorhees Rubber Mfg. Co., Jersey City, N. J.

Hose (Air Brake)

Acme Rubber Mfg. Co., Trenton, N. J.
BOSTON BELTING CO., 260 Devon-
shire, Boston, Mass., & 100 Reade, New
York. (See adv. index & branch offices, end
of book)

Boston Woven Hose & Rubber Co., Executive
office & Factory, Cambridgeport, Mass.
Chicago Rubber & Belting Co., 312 Dearborn,
Chicago

Cincinnati Rubber Mfg. Co., Cincinnati, O.
Continental Rubber Works, Erie, Pa.
Crescent Belting & Packing Co., Trenton, N. J.

Diamond Rubber Co., Akron, O.
Electric Hose & Rubber Co., Wilmington, Del.
Empire Rubber Mfg. Co., 60 Reade, N. Y., &
Trenton, N. J.

Goodrich, B. F. Co., Akron, O.
Gutta Percha & Rubber Mfg. Co., 126 Duane,
New York

Hamilton Rubber Co., Trenton, N. J.
Home Rubber Co., Trenton, N. J.
Mechanical Rubber Co., 91 Chambers, New York
New Jersey Car Spring & Rubber Co., Jersey
City, N. J.

New York Belting & Packing Co. (Ltd.), 91
Chambers, New York

New York Rubber Co., 84 Reade, New York
Peerless Rubber Co., 16 Warren, New York
Penna. Rubber Co., Jeannette, Pa.

Republic Rubber Co., Youngstown, O.
Revere Rubber Co., 77 Bedford, Boston, Mass.
Seward Rubber Co., Berlin, Conn.

SPRAGUE ELECTRIC CO., 527 W
34th, New York. (See adv. index & branch
offices, end of book)

Trenton Rubber Mfg. Co., Trenton, N. J.
United & Globe Rubber Mfg. Co., Trenton, N. J.
Voorhees Rubber Mfg. Co., Jersey City, N. J.

Waterbury Rubber Mfg. Co., 75 Warren, New
York, & Waterbury, Conn.
Whitehead Bros. Rubber Co., Trenton, N. J.

Hose (Air, Pneumatic Hammer, Etc.)

BOSTON BELTING CO., 260 Devon-
shire, Boston, Mass., & 100 Reade, New
York. (See adv. index & branch offices, end
of book)

Boston Woven Hose & Rubber Co., Executive
office & Factory, Cambridgeport, Mass.
Cincinnati Rubber Mfg. Co., Cincinnati, O.

CLEVELAND PNEUMATIC TOOL CO.
("Superior," "Veri-Best"), 6410 Hawthorne
av., Cleveland, O. (See adv. index & branch
offices, end of book)

Continental Rubber Works, Erie, Pa.
DAYTON PNEUMATIC TOOL CO.
("Airtight"), Dayton, O. (See adv. index,
end of book)

Diamond Rubber Co., Akron, O.
Goodrich, B. F. Co., Akron, O.

INGERSOLL-RAND CO., 11 B'way,
New York. (See adv. index & branch offices,
end of book)

Home Rubber Co., Trenton, N. J.
New York Belting & Packing Co. (Ltd.), 91
Chambers, New York

Revere Rubber Co., 77 Bedford, Boston, Mass.
SAYEN, OSGOOD (Sayen's "Stay
Their Armor," Rubber & Asbestos Combl-
ed), Arcade bldg, Phila., Pa. (See adv. in-
dex & branch offices, end of book)

Seward Rubber Co., Berlin, Conn.
Voorhees Rubber Mfg. Co. ("Boreas"), Jersey
City, N. J.

***Hose (Braided)**

BOSTON BELTING CO., 260 Devon-
shire, Boston, Mass. (See adv. index &
branch offices, end of book)

Hose Carriages & Carts

Abbot-Downing Co., Concord, N. H.
AMERICAN FIRE APPARATUS CO.,
1 Madison av., New York. (See adv. index,
end of book)

American-LaFrance Fire Engine Co., Elmira,
N. Y.

Cooney, P. J. Mfg. Co., 900 Cass av., St. Louis,
Mo.

Goulds Mfg. Co., Seneca Falls, N. Y.
Hayward, S. F. & Co., 20 Warren, N. Y.
Reading Fire Apparatus Works, Reading, Pa.

Stewart, A. F. & S. C., Rochester, N. Y.
Wirt & Knox Mfg. Co., 22 N 4th, Phila., Pa.
Woodhouse Mfg. Co., 50 W B'way, New York

Hose (Corrugated Tender)

BOSTON BELTING CO., 260 Devon-
shire, Boston, Mass., & 100 Reade, New
York. (See adv. index & branch offices, end
of book)

Boston Woven Hose & Rubber Co., Executive
office & Factory, Cambridgeport, Mass.

Diamond Rubber Co., Akron, O.
Goodrich, B. F. Co., Akron, O.

Home Rubber Co., Trenton, N. J.
Morgan & Wright (Inc.), ("Morganite" Steam),
226 Jefferson av., Detroit, Mich.

Revere Rubber Co., 77 Bedford, Boston, Mass.
Waterbury Rubber Mfg. Co. (also "Sphincter,"
Grip Steel Armored), 75 Warren, New York

Hose (Cotton)

AMERICAN FIRE APPARATUS CO.,
1 Madison av., New York. (See adv. index,
end of book)

BOSTON BELTING CO., 260 Devon-
shire, Boston, Mass., & 100 Reade, New
York. (See adv. index & branch offices, end
of book)

Boston Woven Hose & Rubber Co., Executive
office & Factory, Cambridgeport, Mass.

Clark Hose Co. (Fire), Malden, Mass.
Consolidated Rubber Co., Trenton, N. J.

Crescent Belting & Packing Co., Trenton, N. J.
Diamond Rubber Co., Akron, O.

Empire Rubber Mfg. Co. (Rubber Lined),
Trenton, N. J., & 60 Reade, N. Y.

Eureka Fire Hose Co., 13 Barclay, N. Y.
Works, Jersey City, N. J.

Goodrich, B. F. Co., Akron, O.
Gutta Percha & Rubber Mfg. Co., 126 Duane,
New York

Hamilton Rubber Mfg. Co., Trenton, N. J.
Home Rubber Co., Trenton, N. J.

Manhattan Rubber Mfg. Co., 18 Vesey, N. Y.
Mechanical Rubber Co. (Rubber), 91 Chambers,
New York

Mineralized Rubber Co., 18 Cliff, N. Y.
N. J. Car Spring & Rubber Co., Jersey City,
N. J.

New York Belting & Packing Co. (Ltd.), 91 Chambers, New York
 Revere Rubber Co. (Rubber Lined, etc.), 77 Bedford, Boston, Mass.
 Stokes, Joseph Rubber Co., Trenton, N. J.
 United & Globe Rubber Mfg. Co., Trenton, N. J.
 Voorhees Rubber Mfg. Co. (Marline & Cotton Woven Cover), Jersey City, N. J.
 Waterbury Rubber Mfg. Co. (Rubber Lined), 75 Warren, N. Y.
 Whitehead Bros. Rubber Co., Trenton, N. J.

Hose (Fire)

AMERICAN FIRE APPARATUS CO., 1 Madison av., New York. (See adv. index, end of book)

BOSTON BELTING CO., 260 Devonshire, Boston, Mass., & 100 Reade, New York. (See adv. below; branch offices, end of book)

Boston Coupling Co. ("Reliance" Cotton Light and Heavy, etc.), Boston, Mass.

Boston Woven Hose & Rubber Co., Executive office & Factory, Cambridge, Mass.

Callahan, Cornelius Co. (Cotton), Boston, Mass.

Chicago Fire Hose Co. (Cotton Rubber Lined), 54 La Salle, Chicago, Ill.

Cincinnati Rubber Mfg. Co. (Rubber), Cincinnati, O.

Clark Hose Co. (Cotton & Linen), Malden, Mass.

Consolidated Rubber Co., Trenton, N. J.

Continental Rubber Works, Erie, Pa.

Diamond Rubber Co., Akron, O.

Empire Mfg. Co. (Cotton Rubber Lined), Lockport, N. Y.

Empire Rubber Mfg. Co. (Cotton, Rubber Lined, etc.), Trenton, N. J., & 60 Reade, N. Y.

Eureka Fire Hose Co. (Cotton, Rubber Lined, also Linen, Plain & Rubber Lined), 13 Barclay, N. Y. Works, Jersey City, N. J.

Fabric Fire Hose Co., Duane & Church, New York

Goodrich, B. F. Co. (Woven Cotton, Rubber Lined, etc.), Akron, O.

Gutta Percha & Rubber Mfg. Co., 126 Duane, New York

Hamilton Rubber Mfg. Co., Trenton, N. J.

Home Rubber Co., Trenton, N. J.
 Jewell Belting Co., Hartford, Conn.
 Manhattan Rubber Mfg. Co., 18 Vesey, New York, & Passaic, N. J.
 Mechanical Rubber Co., 91 Chambers, New York
 Meerer Rubber Co., Trenton, N. J.
 Mineralized Rubber Co., 18 Cliff, N. Y.
 Multiple Woven Hose & Rubber Co. ("Bi-Moore," "Tri-Moore," "Blue Ribbon" & "Trump"), Worcester, Mass.
 New Jersey Car Spring & Rubber Co. ("Tubor," Rubber Lined, Cotton), Jersey City, N. J.

New York Belting & Packing Co. (Ltd.), (Rubber & Cotton), 91 Chambers, New York

Niedner, Chas. (Linen), Malden, Mass.

Nubring, Chas., 907 Walnut, Cincinnati, O.

Penna. Rubber Co., Jeannette, Pa.

Republic Rubber Co., Youngstown, O.

Revere Rubber Co., 77 Bedford, Boston, Mass.

ROSSENDALE-REDDAWAY BELTING & Hose Co. (Linen), Newark, N. J. (See adv. index, end of book)

Seward Rubber Co., Berlin, Conn.

Stokes, Jos. Rubber Co., Trenton, N. J.

United & Globe Rubber Mfg. Co., Trenton, N. J.

Voorhees Rubber Mfg. Co., ("Rex," "Marshall," Cotton Rubber), Jersey City, N. J.

Waterbury Rubber Mfg. Co., 75 Warren, New York, & Waterbury, Conn.

Whitehead Bros. Rubber Co., Trenton, N. J.

Hose (Flexible Metallic)

New York Flexible Metallic Hose & Tubing Co., 161 Lafayette, New York

Pennsylvania Flexible Tubing Co. (Copper or Steel, High Pressure, with Asbestos Interlining), 1305 Arch, Phila., Pa.

Voorhees Rubber Mfg. Co. (Armor), Jersey City, N. J.

Hose (Flexible Steel Armored)

SPRAGUE ELECTRIC CO. (Steam or Air), 527 W 34th, New York. (See adv. on following page; branch offices, end of book)

Hose (Garden, Steam, Mill, Etc.)

(See also Hose, Fire)

BOSTON BELTING CO., 260 Devonshire, Boston, Mass., & 100 Reade, New York. (See adv. below; branch offices, end of book)

Boston Woven Hose & Rubber Co., Executive office & Factory, Cambridgeport, Mass.

Buckley, J. W. Rubber Co. (Invincible Rubber Wound with Steel Wire), 69 Warren, N. Y.

Cincinnati Rubber Mfg. Co., Cincinnati, O.

Consolidated Rubber Co., Trenton, N. J.

Continental Rubber Works, Erie, Pa.

Crescent Belting & Packing Co., Trenton, N. J.

Diamond Rubber Co., Akron, O.

Dunbar, J. A. Mfg. Co., Northville, Mich.

Electric Hose & Rubber Co., Wilmington, Del.

Empire Mfg. Co. (Cotton Rubber Lined), Lockport, N. Y.

Empire Rubber Mfg. Co., Trenton, N. J., & 60 Reade, N. Y.

Eureka Fire Hose Co. (Cotton & Linen), 13 Barclay, New York

Goodrich, B. F. Co., Akron, O.

GRAMMES, L. F. & SONS (Jobbers), Allentown, Pa. (See adv. index, end of book)

Gutta Percha & Rubber Mfg. Co., 126 Duane, New York

Home Rubber Co. (Rubber), Trenton, N. J.

Knowlton, Geo. W. Rubber Co., 88 Broad, Boston, Mass.

Lake Shore Rubber Co., Erie, Pa.

Manhattan Rubber Mfg. Co., 18 Vesey st., N. Y.

Mechanical Rubber Co. (Rubber), 91 Chambers, New York

National India Rubber Co., Bristol, R. I.

N. J. Car Spring & Rubber Co., Jersey City, N. J.

New York Belting & Packing Co. (Ltd.), 91 Chambers, New York

New York Rubber Co., 84 Reade, N. Y.

Niedner, Chas. (Linen), Malden, Mass.

Penna. Rubber Co., Jeannette, Pa.

Revere Rubber Co., 77 Bedford, Boston, Mass.

Republic Rubber Co., Youngstown, O.

SAYEN, OSGOOD (Air Hose), Arcade bldg., Phila., Pa. (See adv. index & branch offices, end of book)

HOSE



for
 Acid
 Air
 Air Brakes
 Air Drills
 Brewers
 Car Heating
 Chemicals
 Fire Protection
 Gas
 Oil
 Steam
 Steam Drills
 Suction
 Water
 Etc., Etc.



We make a specialty of seamless, circular woven cotton fabric hose of various weights, rubber lined, adapted for all classes of service.

OUR RUBBER HOSE combines in the highest degree Strength, Flexibility and Satisfactory Wearing Qualities.
 LINEN HOSE, without rubber lining for inside fire protection.

MECHANICAL RUBBER GOODS OF ALL KINDS Manufactured by

BOSTON BELTING CO.

ESTABLISHED
 1828

JAMES BENNETT FORSYTH, MFG. AGT. AND GEN. MGR.

BOSTON NEW YORK BUFFALO CHICAGO CINCINNATI PHILADELPHIA
 256-260 Devonshire St. 100-102 Reade St. 90 Pearl St. 175-177 Lake St. 201-5 W. Pearl St. 722 Arch St.

Seward Rubber Co., Berlin, Conn.
 Stokes, Jos. Rubber Co., Trenton, N. J.
 Trenton Rubber Mfg. Co., Trenton, N. J.
 United & Globe Rubber Mfg. Co., Trenton, N. J.
 Voorhees Rubber Mfg. Co., 18 Bostwick av.
 Jersey City, N. J., & 18 Dey, New York
 Waterbury Rubber Mfg. Co., 75 Warren, New
 York
 Whitehead Bros. Rubber Co., Trenton, N. J.

Hose (Linen)

Bay State Belting Co., 119 Franklin, Boston,
 Mass.
BOSTON BELTING CO., 260 Devon-
 sbire, Boston, Mass., & 100 Reade, New
 York. (See adv. on preceding page; branch
 offices, end of book)
 Boston Woven Hose & Rubber Co., Executive
 office & Factory, Cambridgeport, Mass.
 Callahan, C., Canton Junction, Mass.
 Clark Hose Co. (Fire), Malden, Mass.
 Empire Mfg. Co., Lockport, N. Y.
 Empire Rubber Mfg. Co. (Unlined), Trenton, N.
 J., & 60 Reade, N. Y.
 Eureka Fire Hose Co. (Plain or Rubber Lined),
 13 Barclay, New York. Works, Jersey City,
 N. J.
 Fabric Fire Hose Co., Duane & Church, New
 York
 Manhattan Rubber Mfg. Co., 18 Vesey, N. Y.
 Niedner, Chas. (Fire), Malden, Mass.
 New Jersey Car Spring & Rubber Co., Jersey
 City, N. J.
 New York Belting & Packing Co. (Ltd.), 91
 Chambers, New York
 Revere Rubber Co., 63 Franklin, Boston, Mass.
ROSSENDALE-REDDAWAY BELT-
 ing & Hose Co., Newark, N. J. (See adv.
 index, end of book)
 Russell Mfg. Co., Middletown, Conn.
 Voorhees Rubber Mfg. Co., Jersey City, N. J.

Hose (Marlin Woven)

Goodrich, B. F. Co., Akron, O.

Hose Menders

Buffalo Specialty Mfg. Co. ("Double Quick"),
 Buffalo, N. Y.
 Cassidy-Fairbank Mfg. Co. ("Samson"), 6106
 La Salle, Chicago, Ill.
 Cooper Hose Jacket Co., Minneapolis, Minn.
 Elkhart Brass Mfg. Co. (Iron), Elkhart, Ind.
 Kohler, F. E. & Co., Canton, O.
NATIONAL SUPPLY CO., 7 W Lom-
 bard, Baltimore, Md. (See adv. index, end
 of book)
 Pleuger & Henger Mfg. Co., St. Louis, Mo.
 Sommer's, John, Sons, Newark, N. J.
 Stortz, Jno. & Son ("Little Giant"), 210 Vine,
 Phila., Pa.

Hose (Pneumatic Tool)

(See Hose, Air, Pneumatic Hammer, Etc.)

Hose (Protected)

Acme Rubber Mfg. Co., Trenton, N. J.
BOSTON BELTING CO., 260 Devon-
 sbire, Boston, Mass., & 100 Reade, New
 York. (See adv. on preceding page; branch
 offices, end of book)
 Electric Hose & Rubber Co., Wilmington, Del.
 Gutta Percha & Rubber Mfg. Co., 126 Duane,
 New York

Revere Rubber Co., Boston, Mass.
SPRAGUE ELECTRIC CO. (Steel
 Armored), 527 W 34th, New York. (See
 adv. index & branch offices, end of book)
 Voorhees Rubber Mfg. Co., Jersey City, N. J.

Hose Reels & Racks

(See Reels & Racks, Fire Hose)

Hose (Rubber)

Akron Rubber Co., Akron, O.
 Alden Rubber Co., Akron, O.
AMERICAN FIRE APPARATUS CO.,
 1 Madison av, New York. (See adv. index,
 end of book)
BOSTON BELTING CO. ("Niagara"),
 "Trimount," "Boston," "Universal," "Im-
 perial," "Excelsior," "Phoenix," 260 Devon-
 sbire, Boston, Mass., & 100 Reade, New
 York. (See adv. on preceding page; branch
 offices, end of book)
 Boston Woven Hose & Rubber Co. ("Damas-
 cus," "Bull Dog," "Boston Terrier,"
 "Dandy," "Bay State," "Tiger," "Olym-
 pia," "Invincible," "Wizard," "Leader,"
 "Dauntless," "Vim," "Helmet," "Cowen,"
 "Iron Brand," "Falcon," "Granger"), Cam-
 bridge, Mass.
 Cleveland Rubber Works, C. & P. R. R. nr
 junction Nickel Plate R. R., Cleveland, O.
 Combination Rubber & Belting Co. ("Indestruc-
 tene," "Franklin"), Bloomfield, N. J.
 Consolidated Rubber Co. ("Arion," "Duke,"
 "Mohawk," "Sharon," "Tuckahoe," "Sul-
 tan," "Advance," "Falcon"), Trenton, N. J.
 Continental Rubber Works, Erie, Pa.
 Crescent Belting & Packing Co. ("Hercules,"
 "Capital," "Royal Flush"), Trenton, N. J.
 Diamond Rubber Co., Akron, O.
 Empire Rubber Mfg. Co. ("Model," "Eagle,"
 "Monitor," "Arrow," "Merrimac"), Tren-
 ton, N. J.
 Fabric, Fire Hose Co., 68 Murray, New York
 Goodrich, B. F. Co., Akron, O.
 Goodyear Rubber Co. ("Gold Seal," "Pioneer"),
 787 B'way, New York
 Gutta Percha & Rubber Mfg. Co. ("Ridge-
 wood," "Wallabout"), 126 Duane, New York
 Hamilton Rubber Mfg. Co., Trenton, N. J.
 Home Rubber Co. ("Black Seal," "Tiger,"
 "White Cross," "World," "N. B. O."), Tren-
 ton, N. J.
 Lake Shore Rubber Co., Erie, Pa.
 Manhattan Rubber Mfg. Co., 18 Vesey, New
 York
 Mechanical Rubber Co. ("Monarch," "Bengal,"
 "Beaver," "Competition," "Superior,"
 "White," "Chicago"), 230 Randolph, Chi-
 cago, Ill.
 Mercer Rubber Co., Trenton, N. J.
 Mineralized Rubber Co., 18 Cliff, New York
 National India Rubber Co. ("White Cross,"
 "Neponset," "Onoko," "Ponotiac," "Wau-
 regan," "Sagamore," "Agawan," "Noko-
 mis," "Anchor," "Seekonk," "Namquit,"
 "Pequot," "Saranac," "Squantum," "Pom-
 ham"), Bristol, R. I.
 New Jersey Car Spring & Rubber Co., Jersey
 City, N. J.
 New York Belting & Packing Co. ("1846 Para,"
 "Carbon," "Double Diamond"), 91 Cham-
 bers, New York
 New York Rubber Co. ("Wiccopee"), 84 Reade,
 New York

Peerless Rubber Mfg. Co. ("Anaconda," "Lake
 Side," "Blue Ribbon," "Rainbow," "Sterl-
 ing," "Reliance," "American"), 16 Warren,
 New York

Pennsylvania Rubber Co., Jeannette, Pa.
 Quaker City Rubber Co., 629 Market, Phila., Pa.
 Republic Rubber Co. ("Sioux," "Mohoning,"
 "Tower," "Chariot," "Hector," "Pedro,"
 "Sanco," "Tonka"), Youngstown, O.
 Revere Rubber Co. ("Giant," "Granite,"
 "Sbawmut"), 77 Bedford, Boston, Mass.
 Seward Rubber Co., Berlin, Conn.
 Stokes, Joseph Rubber Co. ("Majestic," "Cel-
 stic," "Rex," "Bristol," "Hustler"), Tren-
 ton, N. J.
 Trenton Rubber Mfg. Co. ("Hercules," "Para,"
 "White Crown"), Trenton, N. J.
 United & Globe Rubber Mfg. Co., Trenton, N. J.
 Voorhees Rubber Mfg. Co. ("Bostwick," "Fed-
 eral," "Pacific," "Sentinel," "Union," "In-
 dian," "Celtic," "Saxon," "American,"
 "Conqueror," "Contest"), Jersey City, N. J.
 Waterbury Rubber Mfg. Co. ("Sphincter Grip"),
 75 Warren, New York
 Watt's, John M. Sons, 123 S 2d, Phila., Pa.
 Whitehead Bros. Rubber Co. ("Competition,"
 "Thistle," "Juno," "Clover," "Golden
 Rod," "Ivory," "Long Life"), Trenton, N. J.
 Woven Steel Hose & Cable Co. ("Protected"),
 Trenton, N. J.

Hose Signals (Electric)

National Electric Hose Signal Co., 38 Chardon,
 Boston, Mass.

*Hose (Steam)

SPRAGUE ELECTRIC CO., 527 W
 34th, New York. (See adv. below; branch
 offices, end of book)

*Hose (Steel Armor Protected)

SPRAGUE ELECTRIC CO., 527 W
 34th, New York. (See adv. below; branch
 offices, end of book)

*Hose (Suction)

BOSTON BELTING CO., 260 Devon-
 sbire, Boston, Mass., & 100 Reade, New
 York. (See adv. on preceding page; branch
 offices, end of book)
 Goodrich, B. F. Co. (Extra Heavy), Akron, O.
 Home Rubber Co., Trenton, N. J.
 Seward Rubber Co., Berlin, Conn.

Hose (Wire Wound)

Diamond Rubber Co., Akron, O.
 Home Rubber Co., Trenton, N. J.
 Voorhees Rubber Mfg. Co., Jersey City, N. J.

Hot Air Furnaces

(See Furnace Mfrs., Hot Air)

Hotel Calls

(See Annunciators)

Hotel Cooking Apparatus

(See Cooking Apparatus)

Flexible Steel Armored Steam and Air Hose.

THE LATEST ADVANCE IN THE ART.

It consists of a high grade rubber hose, covered with a substantial yet flexible steel armor. The steel armor protects the hose from mechanical injury and encases it so tightly that it prevents expansion, thus prolonging the life of the hose, and if a break in the rubber hose occurs the rupture is bound by the armor so that only a small part of the steam or air pressure is lost. A rupture in the ordinary protected steam or air hose results in a complete loss of pressure. Write for further information to

SPRAGUE ELECTRIC COMPANY,

General Offices, 527 West 34th Street, NEW YORK CITY.

PITTSBURG, PENN.

HOTEL · SHENLEY

Surrouded by three acres of lawn and gardens,
away from the noise and smoke

ABSOLUTELY FIREPROOF



THE LEADING HOTEL IN PITTSBURG

Opposite the Six Million Dollar Carnegie Institute and Library
also the Carnegie Technical Schools. Wire or write and Auto-
mobile will meet you at Union Station and take you to Hotel in
ten minutes. The most attractive Hotel in Pennsylvania.

SEND FOR BOOKLET

JAMES RILEY,

Proprietor and Manager

Remodelled, Handsomely Furnished New Throughout

THE ALBANY 41st St. and Broadway NEW YORK



Absolutely Fireproof

In the heart of the city

500 ROOMS. 300 BATH ROOMS

European Plan. Cuisine Unexcelled.
Gentlemen's Cafe. Ladies' Restaurant and Moorish Rooms.
Popular Prices
Plenty of life—but home-like.
Single Room and Suites with or without Bath.

\$1.00 Per Day and Up

Send for Booklet

ROBERT P. MURPHY

BUFFALO, N. Y.

The Niagara Hotel

American Plan, \$3.00 a day and upwards.

AWAY FROM THE CITY'S NOISE AND SMOKE.



The most comfortable hotel in Buffalo. Beautiful Palm Garden.
Large, airy rooms, with Bath. Two blocks from Lake Erie and
Niagara River. Niagara Falls electric cars one minute from the
door. Wire at our expense, or write for reservations and carriage
will meet you and take you to hotel free of charge. Six minutes
from down town.

Reduced rates to Tourists, Professional
and Traveling Men.

SPAULDING HOTEL CO.

MRS. C. J. SPAULDING } Props.
C. A. SPAULDING }

Porter Avenue and 7th Street.

WHEN IN

BALTIMORE

STOP AT THE

130 Rooms

Elegantly

Furnished

Unexcelled

Cuisine



Rooms
With Bath
and
En Suite

CENTRALLY LOCATED

Opposite Camden Station Main Depot B. & O. R. R.

**RATES \$1.00 PER DAY
— AND UPWARDS —**

SEND FOR BOOKLET

HOTEL JOYCE

BALTIMORE, MD.

HOTEL TOURAINE BUFFALO, N. Y.



DELAWARE AVE. AT. CHIPPEWA STREET
ABSOLUTELY FIREPROOF

250 Rooms with Bath and Long Distance Telephone

EUROPEAN
PLAN

\$1.50 per Day up with Bath connections

Excellent Music and Grill Room

C. N. OWEN, Prop.

SEND FOR BOOKLET

HOTEL NORMANDIE

CONGRESS STREET

Near Woodward Avenue

DETROIT, MICH.



American Plan \$2.50 per Day and upwards.

European Plan \$1.00 per Day and upwards.

Rooms with Bath extra.

A High Grade Cafe.

Restaurant and Buffet in connection.

GEORGE FULWELL,

Proprietor

THE NEW KENMORE

ALBANY, N. Y.



STRICTLY FIRE SAFE

ONE OF THE

BEST HOTELS

IN THE CITY

EUROPEAN PLAN

**\$30,000 Spent
in Improvements**

\$1.50 and upwards. 100 Rooms and Baths. 175 Rooms with Hot and Cold Running Water. Special attention paid to Tourists. Long Distance Telephone in every room. Cuisine and Service Unexcelled. Prof. Strauss' Famous Orchestra a feature.

Busses meet all Trains and Boats

SEND FOR BOOKLET

OAKS HOTEL CO.

J. A. OAKS, Prop.

Also Lakeside Hotel, Thompson's Lake, Heiderberg Mountains. Great Health Resort. Seventeen miles from Albany. Send for Booklet.

J. M. OAKS, Manager.

Commonwealth Hotel

Opp. State House, BOSTON, MASS.



Offers rooms with hot and cold water for \$1.00 per day and up; rooms with private bath for \$1.50 per day and up; suites of two rooms and bath for \$3.00 per day and up. Weekly rates on rooms with hot and cold water and shower baths, \$6.00 to \$9.00; rooms with private baths, \$9.00 to \$12.00; suites of two rooms and bath, \$15.00 to \$22.00.

ABSOLUTELY FIREPROOF

Stone floors, nothing wood but the doors.

**Equipped with its own Sanitary Vacuum
Cleaning Plant.**

Long Distance Telephone in Every Room.

STRICTLY A TEMPERANCE HOTEL.

SEND FOR BOOKLET.

STORER F. CRAFTS,

Manager

***Hotels**

• (No hotels listed except advertisers.)

ALBANY, THE, B'way & 41st, New York City. (See adv. index, end of book)
COMMONWEALTH HOTEL, Boston, Mass. (See adv. index, end of book)
HOTEL JOYCE, Baltimore, Md. (See adv. index, end of book)
HOTEL NORMANDIE, Congress, Detroit, Mich. (See adv. index, end of book)
HOTEL SCHEULEY, Pittsburg, Pa. (See adv. index, end of book)
HOTEL TOURAINE, Buffalo, N. Y. (See adv. index, end of book)
NEW KENMORE, The, Albany, N. Y. (See adv. index, end of book)

House Numbers

(See Numbers & Letters, Metal)

***House Organ Builders**

AUSTIN ORGAN CO., Hartford Conn. (See adv. index, end of book)

House Wreckers

(See Building Materials, Second Hand)

House & Porch Trimmings, Etc.

See Columns, Porch, etc.
 Also Corner, Base & Head Blocks.
 Also Doors, Hardwood & Veneered.
 Also Grille, Fret & Lattice Work.
 Also Interior Finish, Wholesale Mfrs.
 Also Lumber Mfrs.
 Also Mouldings, Various Kinds.
 Also Ornaments, Wood.
 Also Sash Door & Blinds.
 Also Stair Builders' Supplies.
 Also Wood Turnings, Various Kinds.

Hubs, Automobile (Ball & Roller Bearing)

American Ball Bearing Co., Edgewater Park, Cleveland, O.
American Ball Co., Eagle c Kinsley av, Providence, R. I.
American Die & Tool Co., Reading, Pa.
American Roller Bearing Co., South Framingham, Mass.
Ball Bearing Co., N 48th c Merion, Phila., Pa.
Bantam Mfg. Co., Bantam, Conn.
Garford Mfg. Co., Elyria, O.
Harris, E. T., 531 W. 15th, Chicago, Ill.
Jamesville Mfg. Co., Jamesville, N. Y.
Light Mfg. & Foundry Co., Union & Queen, Pottstown, Pa.
Smith, A. O. Co., Clinton nr Park, Milwaukee, Wis.
Standard Roller Bearing Co., N 48th c Girard av, Philadelphia, Pa.
Timken Roller Bearing Axle Co., Canton, O.
Weston-Mott., Flint, Mich.
WORCESTER PRESSED STEEL CO., Worcester, Mass. (See adv. index, end of book)

Hullers (Clover)

Advance Thresher Co., Battle Creek, Mich.
Aultman & Taylor Machinery Co., Mansfield, O.
Birdsall Mfg. Co., South Bend, Ind.
Geiser Mfg. Co., Waynesboro, Pa.
Newark Machine Co., Newark, O.
Nichols & Shepard Co., Battle Creek, Mich.
Reeves & Co. (Feeder & Blower), Columbus, Ind.

Hullers (Coffee & Rice)

(See Rice & Coffee Hulling Machinery)

Hullers (Cotton Seed)

Cardwell Machine Co., Richmond, Va.
Carver Cotton Gin Co., East Bridgewater, Ala.
New Winona Mfg. Co., "Diamond," Huller & Separator, Winona, Mich.
Van Winkle, E. Gin & Machine Works, Atlanta, Ga.

Hullers or Blanchers (Peanut)

Lambert Food & Machine Co., Marshall, Mich.

Hullers (Pea & Bean)

Chattanooga Implement & Mfg. Co. (Pea), East Chattanooga, Tenn.
Chesholm, Scott, Niagara Falls, N. Y.
Farrar Lumber Co., Dalton, Ga.
Huber Mfg. Co., Marion, O.
Sanders Mfg. Co. ("Dixie"), Dalton, Ga.
SPRAGUE CANNING MACHINERY Co. (Canners), 42 River, Chicago, Ill. (See adv. index, end of book)

Humiditor.

Brown Specialty Machinery Co. (For Radiators), Jackson boul & Clinton, Chicago, Ill.

Humidors (Cigar)

Wilke Mfg. Co., Anderson, Ind.

Huskers & Shredders (Corn)

Advance Thresher Co., Battle Creek, Mich.
Appleton Mfg. Co., Batavia, Ill.
Clark, R. F., 100 Lake, Chicago, Ill.
Cleveland Lock Co., Cleveland, O.
Deere & Mansur Co., Moline, Ill.
Hunt, Helm, Ferris & Co. ("Star"), Harvard, Ill.
International Harvester Co. of America, 7 Monroe, Chicago, Ill.
Osborne Plant, Auburn, N. Y.
Kolling Husker & Shredder Works ("Kolling"), Arlington Heights, Ill.
Milwaukee Hay Tool Co., Milwaukee, Wis.
Port Huron Mfg. Co., Port Huron, Mich.
Rosenthal Corn Husker Co., Milwaukee, Wis.
Safety Shredder Co., New Castle, Ind.
Stevens, A. W. Co., Marinette, Wis.
Taylor Husker & Shredder Co., Joliet, Ill.
Wallingford Mfg. Co. (Excelsior), Wallingford, Vt.

Husking Pins

Arcade Mfg. Co. ("Pearse" Corn Husker), Freeport, Ill.
Clark, R. F. (Corn Huskers, Moterman's Palms & Wrist Bands), 100 Lake, Chicago, Ill.
Cleveland Lock Co. (Knife Handle), Cleveland, O.
Pratt, Wm. E. Mfg. Co. ("The Pratt"), 91 Lake, Chicago, Ill.
Standard Corn Husker Co. (Jno. C. Kanney Prop.) (Hand Huskers), Greenspring, Ohio.

Hydrants

Clark, L. P. & Sons, 419 N Front, Baltimore, Md.
Colwell Lead Co., 63 Centre, New York
Darling Pump & Mfg. Co. (Ltd.), Williamsport, Pa.
Dean Bros. Steam Pump Works, Indianapolis, Ind.
Douglas, W. & B., Middletown, Conn., & 83 John, N. Y. City
Edwardsville Brass Co. (Yard), Edwardsville, Ill.
Fales & Jenks Machine Co., Pawtucket, R. I.
Farnam Brass Works, 25 Centre, Cleveland, O.
GOULDS MFG. CO., Seneca Falls, N. Y. (See adv. index & branch offices, end of book)
Haydenville Co. ("Lewis"), Haydenville, Mass.
Hays Mfg. Co. ("Original McNamara" & "Mer-tens"), Erie, Pa.
Humphreys Machine Co., Keene, N. H.
Illinois Malleable Iron Co., 30 W. Monroe, Chicago, Ill.
Kennedy Valve Mfg. Co., 57 Beekman, New York, & Cocksackie, N. Y.
Knight & Jillson Co., 121 S. Penn, Indianapolis, Ind.
Lacy Mfg. Co., Los Angeles, Cal.
Michigan Brass & Iron Works, Detroit, Mich.
Nelson, N. O. Mfg. Co., 424 N. 8th, St. Louis, Mo.
Owensboro Hydrant Co., Owensboro, Ky.
Pleuger & Henger Mfg. Co. ("Empire" & "National"), 11th c Hebert, St. Louis, Mo.
Quirin, Jno. & Bro. (Non-freezing, Street), St. Clair, Pa.
RUMSEY & CO. (Ltd.), ("Kaiser," "Favorite" & "Eagle"), Seneca Falls, N. Y. (See adv. index & branch offices, end of book)
Walworth Mfg. Co., 132 Federal, Boston, Mass.

Hydrants (Crane)

Wood, R. D. & Co., 400 Chestnut, Phila., Pa.

Hydrants (Fire)

Beaumont, Richard, Kankakee, Ill.
Bourbon Copper & Brass Works, 620 E Front, Cincinnati, O.
Camden Iron Works, 400 Chestnut, Phila., Pa.
Camden & Camden, N. J.
Cayuta Wheel & Foundry Co. ("K-U-T-A"), Sayre, Pa.
Chapman Valve Mfg. Co., Indian Orchard, Mass.
Coffin Valve Co., Neponset, Boston, Mass.
Consolidated Rubber Co., Trenton, N. J., & Broad St B'k bldg, N. Y.
Darling Pump & Mfg. Co. (Ltd.), Williamsport, Pa.
Drummond, M. J. & Co., 182 B'way, N. Y.
Eddy Valve Co., Waterford, N. Y.
Eley Mfg. Co. ("Eley"), Bayonne, N. J.
Fox, Jno. & Co. (Mfrs.' Agts.) 253 B'way, N. Y.
Garratt, W. T. & Co. (Inc.), Fremont & Natomas, San Francisco, Cal.
Glamorgan Pipe & Foundry Co., Lynchburg, Va.
Greger Mfg. Co., 22d c Wash'n av, Phila., Pa.
Herron Pump & Foundry Co., Chattanooga, Tenn.
Kennedy Valve Mfg. Co., 57 Beekman, New York, & Cocksackie, N. Y.
Kupperle, Jno. C. ("Total Eclipse"), St. Louis, Mo.
Loetzer Valve & Mfg. Co., Towanda, Pa.
Ludlow Valve Mfg. Co., Troy, N. Y.
McLean, Jno ("Ayers"), 440 Water, New York
Macgungie Brass & Mfg. Co. ("Niagara," "Peerless" & "Anti-Freezing"), Macungie, Pa.
MONARCH VALVE & MFG. CO., Warren, Mass. (See adv. index, end of book)
National Car Wheel Co. ("K-U-Ta"), Sayre, Pa.
Norwood Engineering Co. ("Holyoke"), Florence, Mass.
Owensboro Hydrant Co., Owensboro, Ky.
Pittsburg Mfg. Co. ("Ludlow"), 28th & Railroad, Pittsburg, Pa.
Pleuger & Henger Mfg. Co. ("Empire" & "National"), 11th c Hebert, St. Louis
Pratt & Cady Co., Hartford, Conn.
Rensselaer Mfg. Co., Van Schaick Island, Troy, N. Y.
Rumsey & Co., Ltd. (Inc.), ("Kaiser," "Favorite" & "Eagle"), Seneca Falls, N. Y.
Scott Valve Co., 231 Randolph, Chicago, Ill.
Smith, A. P. Mfg. Co., Newark, N. J.
South Park Foundry & Machine Co., St. Paul, Minn.
Stephens, Roe Mfg. Co., Detroit, Mich.
Thompson, J. & Co., c Van Horn & Sophia, Phila., Pa.
Walworth Mfg. Co., 132 Federal, Boston, Mass.
Watrous Engine Works Co., St. Paul, Minn.
Wood, R. D. & Co. ("Mathews"), 400 Chestnut, Phila., Pa.

Hydrants (Fire Boat)

Wood, R. D. & Co., 400 Chestnut, Phila., Pa.

Hydrants (Fire, Crane Attachment)

Wood, R. D. & Co., 400 Chestnut, Phila., Pa.

Hydraulic Machinery

(See Hydraulic Pumps; also Hydraulic Presses; also Hydraulic Rams; also Hydraulic Jacks; also Hydraulic Cranes; also Hydraulic Riveters)

Hydraulic Rams

Barnes Mfg. Co., Mansfield, O.
Columbiana Pump Co., Columbiana, O.
Deming Co., Salem, O.
Douglas, W. & B., 83 John, N. Y.; Middletown, Conn.
FAIRBANKS, MORSE & CO., Franklin & Monroe, Chicago, Ill. (See adv. index & branch offices, end of book)
Garratt, W. T. & Co. (Inc.), 142 Fremont, San Francisco, Cal.
Gawthrop, Allen, Jr., 100 W 4th, Wilmington, Del.
GOULDS MFG. CO., Seneca Falls, N. Y. (See adv. index & branch offices, end of book)
Hodgkins, C. & A. Co. (Double Acting), Marlboro, N. H.
Humphreys Mfg. Co., Mansfield, O.
Hanson & Rhodes, 157 W 29th, New York
Kilnc, Jas. M., Beavertown, Pa.
Niagara Hydraulic Engine Co., 140 Nassau, New York
Pelton Water Wheel Co., 19th & Harrison, San Francisco, Cal. & 90 West, N. Y.

Power Specialty Co. (Rife's), 111 B'way, New York
 Rife's Hydraulic Engine Mfg. Co., 111 B'way, New York
RUMSEY & CO. (Ltd.), Seneca Falls,
 N. Y. (See adv. index & branch offices, end of book)
 Trahern Pump Co., Rockford, Ill.
 Union Mfg. Co., New Britain, Conn.
 Ward Pump Co., Rockford, Ill.

Hydro Carbon Lamps

(See Lamps, Incandescent Gas)

Hydro Carbons (Miners & Refiners)

Raven Mining Co. ("Kapak," Miners of both Elaterite & Gilsonite), 204 Dearborn, Chicago, Ill.

Hydrometers

Haas, Philip Co. ("Haas," etc.), 429 E. 3d, Dayton, O.
 Hoehn, R. Co., 83 Chambers, New York
 Hohman & Maurer Mfg. Co., 29 Elizabeth, Rochester, N. Y.
 Pennelli, Peter, 194 William, New York
SCHAEFFER & BUDENBURG MFG.
 Co., Foxboro, Mass. (See adv. index & branch offices, end of book)
 Storage Battery Supply Co., 239 E 27th, New York
 Tagliabue, Chas. J. Mfg. Co., 53 Fulton, New York
 Tagliabue, Giuseppe, 302 Pearl, New York
 Taylor Bros. Co., 29 Elizabeth, Rochester, N. Y.
 Vuille, Chas. A., Huntingdon, Pa.
 Wagner, Carl, 1061 N Albany, Chicago, Ill.
 Wagner Glass Works (Also Barometers), 965 E 132d, New York
 Watertown Thermometer Co., Watertown, N. Y.
 Weinhausen, Henry, 22 N. William, N. Y.

*Ice Bars

OHIO STRUCTURAL IRON CO., Sandusky, O. (See adv. index, end of book)

Ice Breakers

Allman Gas Engine & Machine Co. ("Champion"), 29 Sullivan, New York
AMERICAN TAP & DIE CO. (Hand),
 Greenfield, Mass. (See adv. index, end of book)
 Blakeslee, G. S. & Co. ("Reinhold" Choppers), 325 Dearborn, Chicago, Ill., & 260 W. B'way, N. Y.
 Boggs & Clarke, Syracuse, N. Y.
 Dilg Mfg. & Trading Co. ("Champion"), 663 E 163d, New York
 Harrison Safety Boiler Works ("Creasey"), 17th below Allegheny av, Phila., Pa.
 Hartig Standard Gas Engine Co., 14 Commercial, Newark, N. J.

Ice Can Fillers

Great Lakes Engineering Works (For Mfrs. of Artificial Ice, Automatic), Detroit, Mich.
 Wolf, Fred W. Co. (For Mfrs. of Artificial Ice), 141 Rees, Chicago, Ill.

Ice Cans for Artificial Ice

EDWARDS MFG. CO., Eggleston av
 & 4th & 5th, Cincinnati, O. (See adv. index & branch offices, end of book)
 Great Lakes Engineering Works, Detroit, Mich.
 Keichler Mfg. Co., Linn, Clinton & Everett, Cincinnati, O.
KOVEN, L. O. & BRO., 50 Cliff, New York (See adv. index, end of book)
 Ohio Galvanizing & Mfg. Co., Niles O.
 Ruemmel-Dawley Mfg. Co., 3900 Chouteau av, St. Louis, Mo.
SCAIFE, WM. B. & SONS CO., 221
 1st av, Pittsburg, Pa. (See adv. index, end of book)
 Triumph Ice Machine Co., 610 Baymiller, Cincinnati, O.
 Vogt, Henry Machine Co., Louisville, Ky.
 Wall, P. Mfg. & Supply Co., Allegheny, Pa.
 Wolf, Fred W. Co., 141 Rees, Chicago, Ill.
 Wulff, W. C. & Co., Louisville, Ky.

Ice Cream Freezers

(See Freezers, Ice Cream, etc.)

Ice Dumps

Triumph Ice Machine Co., 610 Baymiller, Cincinnati, O.
 Wolf, Fred W. Co. (For Artificial Ice), 141 Rees, Chicago, Ill.

Ice Machines (Portable)

(See Ice Machines, Portable, under the heading of Machinery)

*Ice Runs

OHIO STRUCTURAL IRON CO., Sandusky, O. (See adv. index, end of book)

*Ice Tanks & Pans.

GRAVER, WM. TANK WORKS, East
 Chicago, Ind. (See adv. index, end of book)
KOVEN, L. O. & BRO., 50 Cliff, New York (See adv. index, end of book)

Ice & Refrigerating Machines

(See Ice & Refrigerating Machines, under the heading of Machinery)

Igniters (Gas & Gasoline Engine)

Benton Thos. P. & Son, LaCrosse, Wis.
 Bosch, Robert ("Bosch" Magnetos), 1947 B'way, N. Y.
 Carlisle & Finch Co., 229 E Clifton av, Cincinnati, O.
 Crouse-Hinds Co. (Commutators & Distributors), Syracuse, N. Y.
 Dayton Electrical Mfg. Co. ("Apple"), Dayton, O.
 Elbridge Electrical Mfg. Co., Elbridge, N. Y.
 Henricks Novelty Co., Indianapolis, Ind.
 Hercules Electric & Mfg. Co. (Wizard Spark Generator), Indianapolis, Ind.
 Hobart Electric Mfg. Co., Troy, O.
 Holley Bros. Co. (Holley), 668 Beaubien, Detroit, Mich.
 Holtzer-Cabot Electric Co. ("The H-C Magnet"), Brookline, Mass.
 Kendrick & Davis, Lebanon, N. H.
 Knoblock-Heideman Mfg. Co., South Bend, Ind.
 Motsinger Device Mfg. Co., Pendleton, Ind.
 New Era Gas Engine Co., Dayton, O.
 Ohio Electric Works, 6304 Ellen av, N. W., Cleveland, O.
OIL WELL SUPPLY CO., 215 Water,
 Pittsburg, Pa. (See adv. index, end of book)
 Orswell Ignition Co., 102 Pearl, Boston, Mass.
 Remy Electric Co., Anderson, Ill.
 Roche, Wm. Dry Battery Co., 40 W B'way, New York
 Splittdorf, C. F., 17 Vandewater, New York
 Utica Fire Alarm Telegraph Co., Utica, N. Y.
 Witherbee Igniter Co. ("Witherbee" Storage Battery Igniter), 541 W 43d, New York

Ignition Apparatus

(See Batteries; also Coils, Spark; also Plugs, Spark; also Igniters, Gas & Gasoline Engines)

Illuminating Signs

(See Signs, Illuminating)

Illuminating Tile

(See Vault & Sidewalk Lights.)

Incinerators (Garbage)

National Equipment Co. (Inc.) ("Branch"), 211 N 7th, St. Louis, Mo.

Incline Planes

ALLIS-CHALMERS CO., Milwaukee,
 Wis. (See adv. index & branch offices, end of book)
FLORY, S. MFG. CO., Bangor, Pa.
 (See adv. index, end of book)
GENERAL ELECTRIC CO. (Elec-
 tric), Schenectady, N. Y., & 44 Broad, New York City. (See adv. index, end of book)
 Millholland, J. & J. B. Co., 718 5th av, Pittsburg, Pa.
 Scaife Foundry & Machine Co., Pittsburg, Pa.

Inclinometers

Starrett, L. S. Co., Athol, Mass.

Indian Clubs

Estes, E. B. & Sons, 74 Warren, New York
 Helleburg & Son, Coldwater, Mich.
NARRAGANSETT MACHINE CO.,
 Providence, R. I. (See adv. index, end of book)
 Sandusky Tool Co., Sandusky, O.

*Indicator Attachment

LUNKENHEIMER CO., General Of-
 fices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

Indicators (Center)

Slocumb, J. T. Co., Providence, R. I.

Indicators (Combination)

(For testing the truth of a hole or shaft)
 Slocumb, J. T. Co. (For testing the truth of a hole or shaft), Providence, R. I.

*Indicators (Combined Gas & Steam)

CROSBY STEAM GAGE & VALVE
 Co., 97 Oliver, Boston, Mass., & 16 Dey, New York. (See adv. index & branch offices, end of book)
SCHAEFFER & BUDENBURG MFG.
 Co., Foxboro, Mass. (See adv. index & branch offices, end of book)

*Indicators (Continuous Diagram)

SCHAEFFER & BUDENBURG MFG.
 Co., Foxboro, Mass. (See adv. index & branch offices, end of book)

*Indicators (Draught)

SCHAEFFER & BUDENBURG MFG.
 Co. ("Orsat"), Foxboro, Mass. (See adv. index & branch offices, end of book)

Indicators (Electric Speed)

SCHAEFFER & BUDENBURG MFG.
 Co., Foxboro, Mass. (See adv. index & branch offices, end of book)
 Weston Electrical Instrument Co., Waverly Park, Newark, N. J.

Indicators (Elevator)

ELEVATOR SUPPLY & REPAIR CO.
 ("Armstrong"), 76 W. Monroe, Chicago, Ill.
 Herzog Teleseme Co., 51 W 24th, N. Y.
 Slawson-Graham Co. ("Bowne"), 246 Greenwich, New York
 Somerville, John (Fluid), 146 W 28th, New York
TYLER, W. S. CO., Cleveland, O., &
 11 B'way, New York. (See adv. index, end of book)

Indicators (Friction)

Weidlog, C. Mfg. Co. (Inc.) (For Drill Press or Lathe), 7 Fulton, Brooklyn, N. Y.

Indicators (Fuel Level)

Auto Improvement Co. ("Ever Ready"), 304 Hudson, New York
 Auto Pump Co., Springfield, N. Y.
 Blood Bros. Machine Co., 144 N Edwards, Kalamazoo, Mich.
 Boston Auto Gage Co. ("Triumph"), Old South bldg, Boston, Mass.
 Janney, Steinmetz & Co., 4th & Market, Phila., Pa.
 Jones, Joseph W., 127 W 32d, New York City
 Kinsey Mfg. Co., 1126 E 3d, Dayton, O.
 Ohio Brass Co., Mansfield, O.
 R. & C. Indicator Co., Bridgeport, Conn.
SCHAEFFER & BUDENBURG MFG.
 Co. ("S. & B."), Foxboro, Mass. See adv. index & branch offices, end of book)
 Turner Brass Works, 65 Mich. av, Chicago, Ill.
 Webster Mfg. Co., 248 Jefferson av, Detroit, Mich.

Indicators (Gas Engine)

CROSBY STEAM GAGE & VALVE
Co., 97 Oliver, Boston, Mass., & 16 Dey,
New York. (See adv. below; branch offices,
end of book)
SCHAEFFER & BUDENBERG MFG.
Co. ("Thompson" & "S. & B."), Foxboro,
Mass. (See adv. index & branch offices, end
of book)

Indicators (Helm)

Cory, Chas. & Son, 278 Division, New York
Hyde Windlass Co., Bath, Me.
Western Electric Co., 259 S Clinton, Chicago,
Ill., & 57 Bethune, New York

***Indicators (Hydraulic)**

CROSBY STEAM GAGE & VALVE
Co., 97 Oliver, Boston, Mass., & 16 Dey,
New York. (See adv. below; branch offices,
end of book)
SCHAEFFER & BUDENBERG MFG.
Co., Foxboro, Mass. (See adv. index &
branch offices, end of book)

Indicators (Lathe)

Brown & Sharpe Mfg. Co. Providence, R. I.
Starrett, L. S. Co., Athol, Mass.

Indicators (Lighting)

Bajohr, Carl, 4055 Keokuk, St. Louis, Mo.

Indicators (Log Setting)

Filer & Stowell Co., Home Office, Milwaukee,
Wis.
LANE MFG. CO., Montpelier, Vt. (See
adv. index, end of book)

Indicators (Low Water)

(See Alarms, Low Water.)

Indicators (Machine)

NORTON CO. (For Testing Truth &
Alignments of Machine Parts), Worcester,
Mass. (See adv. index & branch offices, end
of book)

***Indicators (Mean Pressure)**

SCHAEFFER & BUDENBERG MFG.
Co. ("Ripper's"), Foxboro, Mass. (See adv.
index & branch offices, end of book)

***Indicators (Mine Water)**

SCHAEFFER & BUDENBERG MFG.
Co., Foxboro, Mass. (See adv. index &
branch offices, end of book)

Indicators (Oil Can)

Dawson, J. A., O'Karche, Okla.

***Indicators (Outside Spring)**

SCHAEFFER & BUDENBERG MFG.
Co., Foxboro, Mass. (See adv. index &
branch offices, end of book)

Indicators (Polarity)

Herzog Teleseme Co., 51 W 24th, N. Y.
Keystone Electrical Instrument Co. (Potential
& Current), 901 Montgomery av, Phila., Pa.
Weston Electrical Instrument Co., Waverly
Park, Newark, N. J.

Indicators (Potential)

Weston Electrical Instrument Co., Waverly
Park, Newark, N. J.

Indicators (Speed)

American Steam Gauge & Valve Mfg. Co.
("Amer. Thompson"), 208 Camden, Boston,
Mass.
American Steam Gauge & Valve Mfg. Co., 208
Camden, Boston, Mass.
ASHCROFT MFG. CO., 85 Liberty,
New York. Works, Bridgeport, Conn. (See
adv. index, end of book)
Beifield, H. & Co., 435 N Broad, Phila., Pa.
Bowsher, N. P. Co. (or Motion for Water Pow-
er, etc.), South Bend, Ind.
Braunsdorf-Muefler Co., Elizabeth, N. J.
Brown, Edward & Son (Recording Revolution
with Chart), 313 Walnut, Phila., Pa.
CROSBY STEAM GAGE & VALVE CO.,
97 Oliver, Boston, Mass. (See adv. below;
branch offices, end of book)
Disston, Henry & Sons (Inc.), Tacony, Phila.,
Durant, Walter N. Co., Milwaukee, Wis.
Electro-Dynamic Co. (Electric, etc.), 5 Nassau,
New York

Emerson, Smith & Co., Beaver Falls, Pa.
Grant Mfg. & Machine Co., Bridgeport, Conn.
Hart, R. A. & Co. ("Hart" Revolution Count-
ers for Job Presses, etc.), Battle Creek, Mich.
Lintner, Wm. T., Gloversville, N. Y.
McDonnell Odometer Co., Kedzie av & W
35th, Chicago
Marsh, Jas. P. & Co., 224 Wash'n, Chicago
Mixer, J. W. Saw Tool Co. ("Mixer"), Ply-
mouth, Mass.
Roy, B. S. & Son, Worcester, Mass.
SCHAEFFER & BUDENBERG MFG.
Co., Foxboro, Mass. (See adv. index &
branch offices, end of book)
Simonds Mfg. Co., Fitchburg, Mass.
STANDARD GAUGE MFG. CO. (for
Speed & Stroke), Syracuse, N. Y. (See adv.
index & branch offices, end of book)

Star Brass Mfg. Co., 103 E Dedham, Boston,
Starrett, L. S. Co., Athol, Mass.
Tabor Mfg. Co. (Revolution Counters), 18th &
Hamilton, Phila., Pa.
Trill Indicator Co. ("The Faultless"), Corry, Pa.
Utica Steam Gauge Co., Utica, N. Y.
Veeder Mfg. Co., Hartford, Conn.
Wing, J. T. & Co., 19 Woodward av, Detroit,
Mich.
Woodman, R. Mfg. & Supply Co., 63 Oliver,
Boston

Indicators (Station)

Singer Sewing Machine Co. ("Boynton," for
Railroads), 149 B'way, New York

Indicators (Steam Engine)

American Steam Gauge & Valve Mfg. Co.
("Amer. Thompson Improved"), 208 Cam-
den, Boston, Mass.
ASHCROFT MFG. CO., THE (The
"Tabor"), 85, 87 & 89 Liberty, New York,
Works, Bridgeport, Conn. (See adv. index,
end of book)
Ashton Valve Co., 271 Franklin, Boston, Mass.
Bushnell, Jno. S. Co. ("Batchelder"), 123 Lib-
erty, New York
CROSBY STEAM GAGE & VALVE
Co., 95 Oliver, Boston, Mass., & 16 Dey,
New York. (See adv. below; branch offices,
end of book)
Lippincott Steam Specialty & Supply Co. ("Lip-
pincott"), Newark, N. J.
Robertson, Jas. L. & Son (Inc.), 48 Warren,
N. Y.
SCHAEFFER & BUDENBERG MFG.
Co. ("Lyne" & "Thompson"), Foxboro, Mass.
(See adv. index & branch offices, end of
book)
Star Brass Mfg. Co., 103 E Dedham, Boston,
Mass.
Thompson, Richard & Co. ("Thompson's"), 126
Liberty, New York
Trill Indicator Co., Corry, Pa.

Indicators (Tank)

Quimby Engineering Co. ("U. S. Standard"
Mercury), 913 Ridge av, Phila., Pa.
SCHAEFFER & BUDENBERG MFG.
Co., Foxboro, Mass. (See adv. index &
branch offices, end of book)
SIMMONS, JOHN CO., 110 Centre,
New York. (See adv. index, end of book)
Tankometer Co., 89 State, Boston, Mass.

Indicators (Test)

Brown & Sharpe Mfg. Co. (Dial Lathe, etc.),
Providence, R. I.
Reisner, W. H. Mfg. Co. (Dial, Lathe, etc.),
Hagerstown, Md.
Starrett, L. S. Co. (Universal), Athol, Mass.

Indicators (Valve)

Walworth Mfg. Co. (The Half), 132 Federal,
Boston, Mass.
Wood, R. D. & Co., 400 Chestnut, Phila., Pa.

Indicators (Water)

Steigert, Leopold ("U. S." for Boilers), Eider
& Logan, Cincinnati, O.

Indicators (Wire Rope)

Chain Belt Co., Milwaukee, Wis.

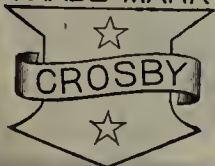
Indurated Fibre Ware

United Indurated Fibre Co. of N. J. ("Fi-
brotta"), Lockport, N. Y.

Ingot Extractors

Lewis Foundry & Machine Co., 1001 Bingham,
Pittsburg, Pa.
Mesta Machine Co., Pittsburg, Pa.
MORGAN ENGINEERING CO., Al-
liance, O. (See adv. index, end of book)

TRADE-MARK



THE CROSBY INDICATOR

ABOVE ALL OTHERS IS THE INSTRUMENT
RELIED UPON IN MAKING ELABORATE
TESTS OF POWER PLANTS.

THE HIGH DEGREE OF EXCELLENCE

In its manufacture and the trustworthy results obtained in its operation have led to its
recognition by leading technical schools and eminent engineers as being superior in all re-
spects to all other indicators.

The CROSBY STEAM GAGE & VALVE CO.

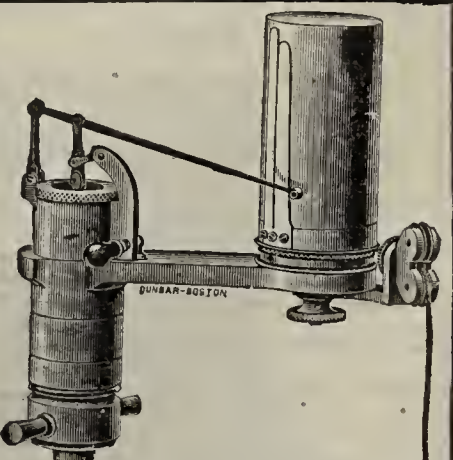
BOSTON.

NEW YORK.

CHICAGO.

LONDON.

With CROSBY REDUCING WHEEL the Outfit Is Complete.



Highest Awards at World's Fairs.

Ingot Strippers (Electric & Hydraulic)

MORGAN ENGINEERING CO., Alliance, O. (See adv. index, end of book)
WHITING FOUNDRY EQUIPMENT Co., Harvey, Ill. (See adv. index & branch offices, end of book)

Ingots (Aluminum)

Aluminum Co. of America, Pittsburgh, Pa.
 American Metal Co. (Ltd.), 52 B'way, N. Y.
 Janney, Steinmetz & Co., 4th & Market, Philadelphia, Pa.
LEAVITT, C. W. & CO., 222 B'way, N. Y. City. (See adv. index, end of book)

Ingots (Brass & Copper)

Ajax Metal Co., 46 Richmond, Philadelphia, Pa., & Birmingham, Ala.
 American Metal Co., 52 B'way, N. Y.
 American Smelting & Refining Co., 9th & Freeman, Cincinnati, Ohio
 Ansonia Brass & Copper Co., Ansonia, Conn., & 99 John, New York
 Blatchford, El. W. Co., 78 W Clinton, Chicago, Ill.
 Davol, Jno. & Sons., 135 William, New York
 Duquesne Reduction Co., Farmers' Bank bldg., Pittsburgh, Pa.
 Great Western Smelting & Refining Co., 173 W Kinzie, Chicago, Ill.
 Hendricks Bros., 49 Cliff, New York
 Hayman, Mich'l & Co. (Copper), Buffalo, N. Y.
 Hiertz, Thos. Metal Co., Tenn av & Poepping, St. Louis, Mo.
HUNGERFORD, U. T. BRASS & COPPER Co., 497 Pearl, N. Y.
 Hurley & Wainwright, 51 Fulton, New York
 Hussey, C. G. & Co., 2850 2d av, Pittsburgh, Pa.
 Illinois Smelting & Refining Co. ("Brass"), Kinzie & Peoria, Chicago, Ill.
 Illinois Zinc Co., Peru, Ill.
 Kramer, H. & Co., 353 S Canal, Chicago, Ill.
LEAVITT, C. W. & CO. (Copper only), 222 B'way, New York City. (See adv. index, end of book)
MERCHANT & EVANS CO., INC., 517 Arch, Philadelphia, Pa. (See adv. index & branch offices, end of book)
 Riverside Mfg. & Supply Co., Connellsville, Pa.
 Roessing Bronze Co., Etna, Pa.
 Shlmer, H. M. & Co. (Red & Yellow), 19th & Wash'n av, Phila., Pa.
 Syracuse Smelting Works, Syracuse, N. Y.
 Tottenville Copper Co. (O. C. T.), Tottenville, N. Y.
 Trench, C. S. & Co., 81 Fulton, New York
 Woodfall Bros., 1105 Fairmount av, Phila., Pa.

Ingots (Bronze)

National-Fulton Brass Mfg. Co. ("Monarch"), Detroit, Mich.
 Roessing Bronze Co., Etna, Pa.
 U. S. Bronze Co., 149 Columbus, Cleveland, O.

Ingots (Copper)

(See Ingots Brass & Copper.)

Ingots ("Parson's" Manganese Bronze)

Cramp, Wm. & Sons Ship & Engine Building Co., Philadelphia, Pa.

Ingots (Phosphor Bronze)

Ajax Metal Co., 46 Richmond, Philadelphia, Pa., & Birmingham, Ala.
 Damascus Bronze Co., Allegheny, Pa.
 Edna Smelting & Refining Co., 525 Reading rd, Cincinnati, O., & Monadnock blk, Chicago
 Garrett, J. W. Brass & Fdy. Co., 2028 Walnut, St. Louis, Mo.
 Great Western Smelting & Refining Co. 173 W Kinzie, Chicago, Ill.
 Phosphor Bronze Smelting Co., 2200 Washington av, Philadelphia, Pa.
 Reeves, Paul S. & Son, 1413 Catharine, Philadelphia, Pa.
 Syracuse Smelting Works, Syracuse, N. Y.
 Toledo Bronze Co., Toledo, O.
 U. S. Bronze Co., 140 Columbus, Cleveland, O.

Ingots (Steel)

Harrisburg Pipe & Pipe Bending Co. (Open Hearth), Harrisburg, Pa.
 Pittsburg Steel Foundry (Up to 70,000 lbs.), Pittsburg, Pa.; Works, Glassport, Pa.
 Tremont Nail Co. (also Slabs & Plates), West Wareham, Mass., & 76 Pearl, Boston

Ingots (Zinc)

American Smelting & Refining Co., 71 B'way, New York
 Lanyon Zinc Co., St. Louis, Mo.; 220 B'way, New York. Works, Iola, Kan.
 New Jersey Zinc Co., 11 B'way, New York

Injectors (Boiler)

AMERICAN INJECTOR CO., Congress & Seventh, Detroit, Mich. (See adv. index, end of book)

Automatic Injector Co., 12 E. 3d, Cincinnati, O.
 Belfield, H. & Co., 435 N. Broad, Phila., Pa.
 Champion Safety Lock Co. ("National" Automatic), Geneva, O.
 Chicago Injector Co. ("Garfield" Locomotive, Marine & Stationary), Wadsworth, O.
 Crescent Mfg. Co., 28 Columbus, Cleveland, O.
 Crane Co. (Est. 1855), 519 S. Canal, Chicago, Ill.
 Desmond-Stephen Mfg. Co. ("Desmond"), Urbana, O.
 Detroit Lubricator Co. (Boiler oil, "Detroit"), Hodges Bldg., Detroit, Mich.
 Dodge, N. B. Mfg. Co. ("Dodge"), Fitchburg, Mass.

Douds, F. C. & Co., New Castle, Pa.
 Edna Smelting & Refining Co. ("Monitor," "Porteous"), 525 Reading rd, Cincinnati, O.
 Eynon-Evans Mfg. Co. ("Niagara" & "Eynon-Korting"), 1519 Clearfield, Philadelphia, Pa.
 Fairbanks, Morse & Co. ("Chief"), Chicago, Ill.
 Forest City Brass Works ("Kennedy"), Cleveland, O.
 Griffiths, Jas. A. ("Keystone," "Champion," "Eclipse"), 500 N. 12th, Philadelphia, Pa.

HANCOCK INSPIRATOR CO., THE ("Hancock Inspirators"), 85, 87 & 89 Liberty, New York. (See adv. index & branch offices, end of book)

Handlan-Buck Mfg. Co. ("Perfection"), 212 N. 3d, St. Louis, Mo.

HAYDEN & DERBY MFG. CO., THE (Metropolitan, Automatic & Double Tube), 85, 87 & 89 Liberty, New York, & 22, 24 & 26 S. Canal, Chicago, Ill. Works, 1 Watson, Boston, Mass. (See adv. index, end of book)

Howe Mfg. Co., Louisville, Ky.
 Imperial Brass Mfg. Co., Chicago, Ill.
 Jenkins Bros. ("Seller's Restarting"), New York
 Keyes, F. E. & Son, 20 Broad, New York City
 Lee Mfg. Co. ("Lee," Ball Valve Automatic), So. Park, Port Huron, Mich.

Little, Geo. H., Peabody, Mass.
 Lonergan, J. E. & Co. ("Clipper," "Ajax," "Unique" & "Little Giant"), 211 Race, Philadelphia, Pa.

LUNKENHEIMER CO. (General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

McNab & Harlin Mfg. Co., New York City
 Nathan Mfg. Co. ("Monarch Nathan," "Gresham," "Monitor" & "Friedmann"), 92 Liberty, New York

National Injector Co., Geneva, O.

Ohio Injector Co. ("Garfield"), Wadsworth, O.

OIL WELL SUPPLY CO., 215 Water, Pittsburg, Pa. (See adv. index, end of book)

PENBERTHY INJECTOR CO. ("Penberthy," Automatic, Positive), 346 Holden av., Detroit, Mich. (See adv. index, end of book)

Powell, Wm. C. (Stationary & Marine), 2525 Spring Grove av., Cincinnati, O.

Randle Machinery Co. ("Leader"), Powers & C. H. & D. R'y, Cincinnati, O.

Register's, J. Sons Co. ("Ebermann" Positive & Automatic), Halliday & Saratoga, Baltimore, Md.

Rue Mfg. Co. ("Little Giant," "Unique" & "Fixed Nozzle"), 228 Cherry, Philadelphia, Pa.

SCHAEFFER & BUDENBERG MFG. Co., Foxboro, Mass. (See adv. index & branch offices, end of book)

Schutte & Koerting ("Koerting" & "Universal"), 1253 N. 12th, Philadelphia, Pa.

Sellers Wm. & Co. (Locomotive & Boiler), 1600 Hamilton, Philadelphia, Pa.

Sherwood Mfg. Co. ("Buffalo"), Buffalo, N. Y.

Steam Appliance Co. ("Triumph"), Milwaukee, Wis.

Stephens, Roe Mfg. Co. ("Michigan"), Detroit, Mich.

Trauter Mfg. Co. ("Peerless"), Pittsburg, Pa.

Watson, N. A. ("Excelsior"), Erie, Pa.

*Injectors (Exhaust)

SCHAEFFER & BUDENBERG MFG. Co., Foxboro, Mass. (See adv. index & branch offices, end of book)

Injectors (Locomotive)

AMERICAN INJECTOR CO. ("World" Injector), Detroit, Mich. (See adv. index, end of book)

Belfield, H. & Co., 435 N. Broad, Phila., Pa.

Chicago Injector Co. ("Garfield"), Wadsworth, Ohio

Crane Co. (Est. 1855), 519 S. Canal, Chicago, Ill.

Edna Smelting & Refining Co. ("Monitor"), 525 Reading rd, Cincinnati, O.

Griffiths, Jas. A. ("Eclipse"), 500 N. 12th, Philadelphia, Pa.

HANCOCK INSPIRATOR CO., THE ("Hancock Inspirators" for Locomotive, Marine & Stationary Purposes), 85, 87 & 89 Liberty, N. Y. (See adv. index & branch offices, end of book)

Handlan-Buck Mfg. Co. ("Perfection"), 212 N. 3d, St. Louis, Mo.

HAYDEN & DERBY MFG. CO., THE (The "Metropolitan," etc.), 85, 87 & 89 Liberty, New York, & 22, 24 & 26 S. Canal, Chicago, Ill. Works, 1 Watson, Boston, Mass. (See adv. index & branch offices, end of book)

Lonergan, Jas. E. & Co., 211 Race, Philadelphia, Pa.

LUNKENHEIMER CO., General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

Nathan Mfg. Co. ("Monarch Nathan"), 92 Liberty, New York, & 84 Vanburen, Chicago, Ill.

PENBERTHY INJECTOR CO. ("Penberthy," Automatic Positive), 346 Holden av., Detroit, Mich. (See adv. index, end of book)

Powell, Wm. Co., 2525 Spring Grove av., Cincinnati, O.

Schutte & Koerting ("Koerting"), 1251 N 12th, Phila., Pa.

Sellers, William & Co., 1600 Hamilton, Philadelphia, Pa.

Sherwood Mfg. Co. ("Buffalo"), Buffalo, N. Y.

*Injectors (Oil)

LUNKENHEIMER CO. ("Standard"), General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

Inlets (Fresh Air)

Desper, Henry A. Mfg. Co., Worcester, Mass.
 Du Bois, Fred'k N. & Co., 247 9th av, New York
 Fee & Mason, 66 Beekman, New York.
 Hart-Ayres Plumbing Co., 4th av & Degraw, Brooklyn, N. Y.
 Mott, J. L. Iron Works, 88 Beekman, New York
 Perfect Fresh Air Inlet Co., 125 E 42d, New York
 Zero Valve & Brass Mfg. Co., 296 Seneca, Buffalo, N. Y.

Inspector of Iron, Steel & Concrete

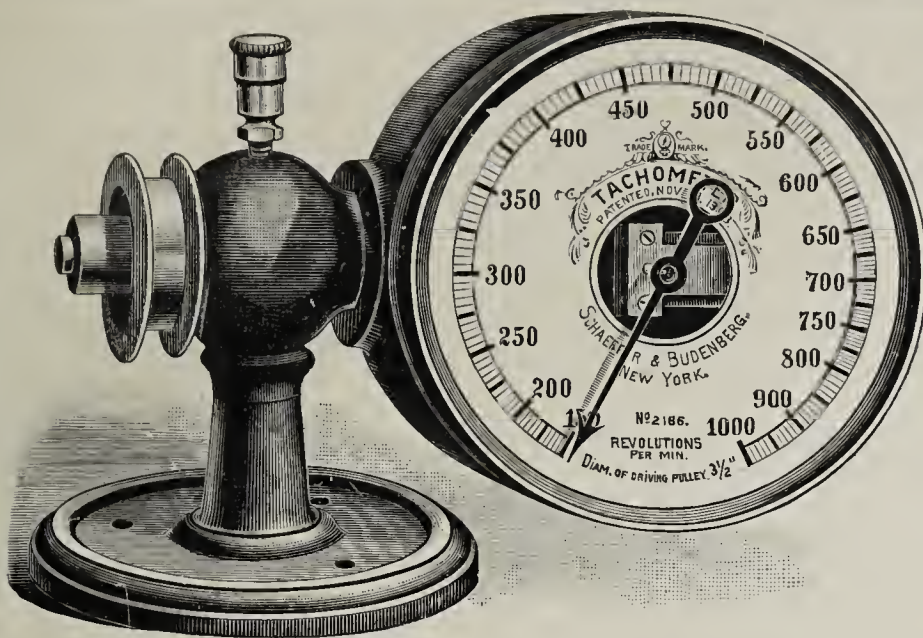
Bartholomew, H. (Testing a Specialty), Phoenixville, Pa.

Inspirators

(See Injectors.)

When writing to firms whose names appear in this book please mention

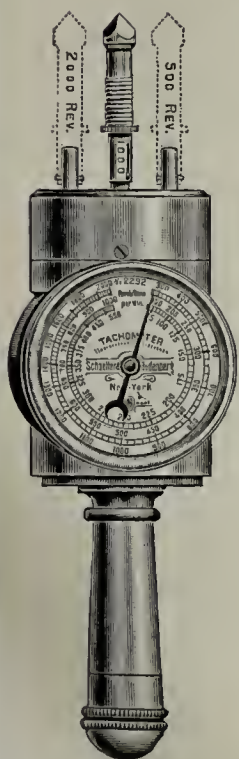
HENDRICKS' COMMERCIAL REGISTER.



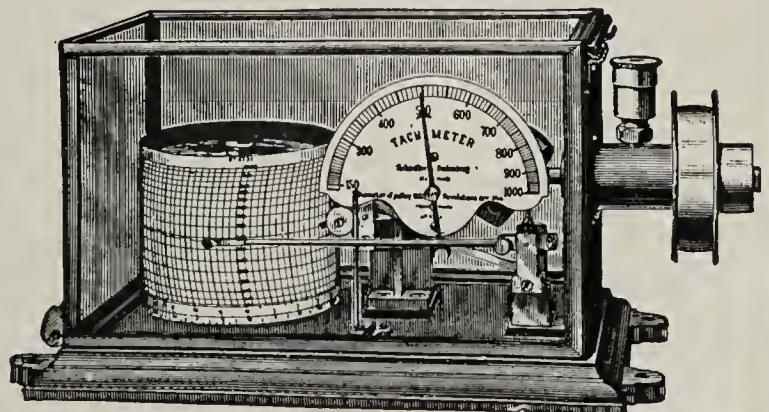
Recording, Stationary, Portable and Special TACHOMETERS

OF EVERY DESCRIPTION

The Schaeffer & Budenberg Mfg. Co.
23 DEY STREET, NEW YORK.
15 W. LAKE STREET, CHICAGO.



GENERAL WORKS
FOXBORO, MASS.



There Must be a Reason Why

475,000 ENGINEERS ARE USING
PENBERTHY AUTOMATIC INJECTORS

Merit : : :



Satisfaction



If one of the 475,000 ever had trouble with a "Penberthy" Injector and appealed to us and was not satisfied ---
"LET HIM SPEAK OR FOREVER HOLD HIS PEACE"

DO NOT OVERLOOK THE FACT that we manufacture a full line of Engine and

Boiler Room Specialties—Oilers, Grease Cups, Lubricators, Water Gages, Gage Cocks, Ejectors, Etc.

Send for catalog and our thirty-two page journal, the **ENGINEER & FIREMAN**, devoted exclusively to selected articles taken from the leading mechanical papers.

Penberthy Injector Co.,

Detroit, - Mich.

MADE IN CANADA BY PENBERTHY INJECTOR CO., LIMITED, WINDSOR, ONTARIO



**LUBRICATORS FOR GAS AND
GASOLINE ENGINES**

GLASS OIL CUPS

NOISELESS WATER HEATERS

EXHAUST INJECTORS

BRASS STRAINERS

**MOON AUTOMATIC
GREASE CUPS**

FUSIBLE PLUGS

BRASS PLUGS, EJECTORS

JET PUMPS, SYPHONS



MANUFACTURED BY

AMERICAN INJECTOR COMPANY

DETROIT, MICH.

WE PAY CASH

WE HAVE DEVISED A PLAN TO PAY YOU CASH FOR GIVING CREDIT TO HENDRICKS' COMMERCIAL REGISTER, WHEN ASKING QUOTATIONS FROM FIRMS WHOSE NAMES ARE CLASSIFIED THEREIN.

WE BELIEVE THAT HENDRICKS' COMMERCIAL REGISTER IS USED BY MORE BUYERS FOR PURCHASING PURPOSES THAN ANY OTHER PUBLICATION EVER ISSUED.

BUT OUR PROBLEM IS: HOW CAN WE PROVE IT?

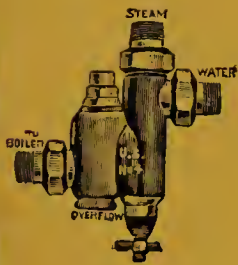
WE HAVE DECIDED TO PAY FOR THE EVIDENCE.

WHEN WRITING A FIRM WHO IS LISTED IN HENDRICKS' COMMERCIAL REGISTER, ATTACH THE RED COUPON TO YOUR LETTER, FILL OUT THE WHITE ONE AND MAIL IT TO US, AND WE WILL REMIT FIVE CENTS IN CASH FOR EACH COUPON SO USED.

WHEN YOU ARE OUT OF COUPONS WE WILL FURNISH MORE.

S. E. HENDRICKS COMPANY,

74 LAFAYETTE STREET, NEW YORK.



U. S. Automatic Injector

300,000 IN ACTUAL USE

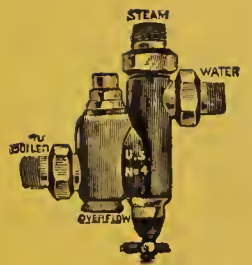
SIMPLE, RELIABLE and DURABLE

SOLD ON THEIR MERITS

THE WORLD DOUBLE TUBE INJECTOR is the best Hot-Water Machine made

MANUFACTURED BY

AMERICAN INJECTOR COMPANY, - - Detroit, Mich.





Instruments (Astronomical)

BUFF & BUFF MFG. CO., Jamaica
Plain, Boston, Mass. (See adv. index, end of book)

Warner & Swasey Co., Cleveland, O.

Weston Electrical Instrument Co., Waverly Park, Newark, N. J.

Instruments (Electrical Testing & Measuring)

American Instrument Co. ("American"), 16 Lawrence, Newark, N. J.

Eiddle, Jas. G. (Testing), Stephen Girard bldg. Phila., Pa.

Burke Electric Co., 9th & Montgomery av., Philadelphia, Pa.

Cutter Co. (Keystone Measuring), 19th & Hamilton, Phila., Pa.

Etna Electric Works, 145 E. 23d, New York.

GENERAL ELECTRIC CO., SCHENECTADY, N. Y., & 44 Broad, New York. (See adv. index & branch offices, end of book)

Keystoue Electrical Instrument Co., 9th & Montgomery av., Phila., Pa.

Leeds & Northrup Co., 259 N Broad, Phila., Pa.

Machade & Roller, 203 B'way, New York

Myers Break Finding Co. (Testing), Syracuse, N. Y.

Nafis, Louis F. & Co., 120 Randolph, Chicago, Ill.

Norton Electrical Instrument Co., Manchester, Conn.

QUEEN & CO. (Inc.), n. w. cor 8th & Arch, Phila., Pa. (See adv. index, end of book)

Ritchie, E. S. & Sons, Brookline, Boston, Mass.

Rogers Electrical Works, 53 Dey, N. Y.

Sangamo Electric Co., Springfield, Ill.

Simplex Co., Newark, N. J.

Troy Electrical Instrument Co. (Dead-Beat Direct Current Measuring), Troy, N. Y.

Wagner Electric Mfg. Co., 2017 Locust, St. Louis, Mo.

WESTINGHOUSE ELECTRIC & MFG. CO., Pittsburg, Pa. (See adv. index & branch offices, end of book)

Weston Electrical Instrument Co., Waverly Park, Newark, N. J.

Whitney Electrical Instrument Co. (Rail Bond Testing, etc.), Penacook, N. H.

Willyoung & Gibson Co., 40 W 13th, New York

Instruments (Leveling)

Athol Machine Co., Athol, Mass.
Richardson-Oliver Co., Athol, Mass.
Starrett, L. S. Co., Athol, Mass.

Instruments of Precision

Altender, Theo. & Son, 945 Ridge av, Phila., Pa.
Flego, Alex. J. R., Lynn, Mass.

Instruments (Nautical)

Albrecht, Chas. R., 62 Fulton, New York
Bliss, Jno. & Co., 128 Front, New York
Keuffel & Esser Co., 127 Fulton, New York
Riggs & Bros., 310 Market, Philadelphia, Pa.
Ritchie, E. S. & Son, Brookline, Mass.
Rupp, Michael & Co., 39 South, New York

Instruments (Scientific)

Beckman, L. Co. (Surveying), Toledo, O.
Hanna Mfg. Co. (Mathematical), 380 River, Troy, N. Y.
Keuffel & Esser Co., 127 Fulton, New York.

SOLTMANN, E. G.

(Also everything for the Architect, Engineer & Draughting Room), 125 E 42d, New York. (See adv. index, end of book)

QUEEN & CO. (Inc.), n. w. cor 8th & Arch, Phila., Pa. (See adv. index, end of book)

WISSLER, A. INSTRUMENT WORKS.
501-9 W. Washington av., St. Louis, Mo. (See adv. index, end of book)

***Instruments (Scientific, Second Hand)**

SOLTMANN, E. G.

(Also everything for the Architect, Engineer & Draughting Room), 125 E 42d, New York. (See adv. index, end of book)

Instruments (Telegraph)

Bunell, J. H. & Co., 20 Park pl, New York.

Foot, Pierson & Co. (Measuring & Testing Instruments of Precision), 84 Fulton, New York

International Brass & Electric Co., 76 Beekman, Manufacturers' & Investors' Electric Co., 84 Nassau, New York

Western Electric Co., 259 S. Clinton, Chicago, & 57 Bethune, New York

Instruments (Testing & Measuring)

(See Instruments, Electrical Testing & Measuring)

Insulated Joints (for Electrical Track Circuits)

Continuous Rail Joint Co., Newark, N. J.
Weber Railway Joint Mfg. Co., 71 B'way, New York

Insulated Wire

(See Wire, Insulated)

Insulating Asphalt

Indian Refining Co., Georgetown, Ky.
Stowell Mfg. Co., 114 to 134 Culver av, Jersey City, N. J.

Warren Chemical & Mfg. Co., 17 Battery pl, New York

Insulating Brick

Union Fibre Co. (Fire-Proof & Non-Conductor of Heat & Cold), Winona, Minn.

Insulating Cloth

Massachusetts Chemical Co., Walpole, Mass.
Pittsburg Insulating Co. (Linen), Fulton bldg., Pittsburg, Pa.

Standard Paint Co., 100 William, New York

Insulating Compounds

(See also Paints, Insulating.)

American Asphaltum & Rubber Co., Women's Temple, Chicago, Ill.

Anderson, Albert & J. M. Mfg. Co. ("Aetna," for Electric Railways), Boston, Mass.

owdlear, W. H. & Co., 149 Pearl, Boston, Mass.

Durnaid Mfg. Co. (Composition), 22 Prospect, Newark, N. J.

Electric Cable Co. ("Voltax," non-rubber) Bridgeport, Conn.

ELECTROSE MFG. CO., 127 N 10th, Brooklyn, N. Y.

GENERAL ELECTRIC CO., Schenectady, N. Y., & 44 Broad, New York. (See adv. index & branch offices, end of book)

Johus, H. W.-Manville Co., 100 William, New York

JOHNS-PRATT CO., THE, Hartford, Conn.

Kornit Mfg. Co. ("Kornit"), Newark, N. J.

Loando Hard Rubber Co., Boonton, N. J.

Macallen Co., cor. Foundry & Division, Boston, Mass.

Macon-Evans Varnish Co. ("Electrolac"), Pittsburg, Pa.

Mica Insulator Co. ("M. I. C."), 219 Water, New York

Massachusetts Chemical Co. ("Armalc"), Walpole, Mass.

Minerallac Co., 1061 Monadnock blk, Chicago.

Mitchell, Wm. E. G., 88 Maiden la, New York

Morgan & Wright (Inc.) (Stick Insulating, for Splicing Cables, etc.), 226 Jefferson av, Detroit, Mich.

National India Rubber Co., Bristol, R. I.

OKONITE CO. (Ltd.), 253 B'way, New York (See adv. index, end of book)

Standard Underground Cable Co. ("Ozite"), Westinghouse bldg, Pittsburg, Pa.

Smith, Edw. & Co. (Baked Coating), 45 B'way, New York

STANDARD VARNISH WORKS, 29

B'way, New York. (See adv. index & branch offices, end of book)

Sterling Varnish Co., 307 4th av, Pittsburg, Pa.

Trotter, E. T. & Co., 1105 Metropolitan av, Brooklyn, N. Y.

Warren Chemical & Mfg. Co., Whitehall bldg, New York

Weser Supply Co. ("Wesco"), St. Louis, Mo.

Western Electric Co., 259 S Clinton, Chicago, Ill., & 57 Bethune, N. Y.

Insulating Fibre

American Vulcanized Fibre Co., Wilmington, Del.

Delaware Hard Fibre Co., Wilmington, Del.

Leatheroid Mfg. Co., Kennebunk, Me.

Loando Hard Rubber Co., Boonton, N. J.

SPAULDING, J. & SONS CO., North Rochester, N. H. (See adv. index, end of book)

United Insulated Fibre Co. N. J. ("Fibrotte" for Covering Third Rails & Wires), Lockport, N. Y.

Insulating Joints

Chicago Gas & Electric Fixture Mfg. Co., 19 S Jefferson, Chicago, Ill.

Continuous Rail Joint Co., Newark, N. J.

Flagg, Stanley G. & Co., 424 N 19th, Phila., Pa.

Gleason, E. P. Mfg. Co., 37 Murray, New York

Macallen Co., cor. Foundry & Division, Boston, Mass.

Pass & Seymour, Solvay, N. Y.

Rail Joint Co., 29 W 34th, New York.

Reconstructed Granite Co., 14 Dey, New York.

Works, Norristown, Pa.

Insulating Material

American Insulating Material Mfg. Co. (Sawyers Rock Cotton Insulating Blocks), Alexandria, Ind.

Beaver Mfg. Co., 228 Perry st., Buffalo, N. Y.

Dickinson Mfg. Co., Springfield, Mass.

Electro Mfg. Co. (Hard Rubber Substitute), 127 N 10th, Brooklyn, N. Y.

Fay Manila Roofing Co., Camden, N. J.

Johns, H. W.-Manville Co. ("Niagrite," for High-Tension Electric Cables), 100 William, New York

JOHNS-PRATT CO., THE (Electric, "Vulcabeston," Moulded Mica), Hartford, Conn.

Keasbey & Mattison Co., Main office & Works, Ambler, Pa.

Massachusetts Chemical Co., Walpole, Mass.

OKONITE CO. (Ltd.), 253 B'way, New York. (See adv. index, end of book)

Reconstructed Granite Co., 14 Dey, N. Y.

Works, Norristown, Pa.

Steward, D. M. Mfg. Co. ("Lavite"), Chattanooga, Tenn.

Union Fibre Co., Winona, Minn.

Vulcanized Rubber Co. (Hard Rubber), 110 Grand, New York

Insulating Paints

(See Paints, Insulating.)

Insulating Papers

American Insulating Material Mfg. Co. (Sawyer's "Polar Brand"), Alexandria, Ind.

American Vulcanized Fibre Co., Wilmington, Del.

Barrett Mfg. Co. (Also Insulating Rope), Land Title bldg, Philadelphia, Pa.

Bird, F. W. & Son, East Walpole, Mass.

CABOT, SAMUEL (Cabot's Quilt), 141 Milk, Boston, Mass., & 28 Dearborn av, Chicago. (See adv. index & branch offices, end of book)

Case Bros. (Boards, any size or Thickness), Highland Park, Conn.

Chatfield & Wood Co., 347 W 4th, Cincinnati, O.

De Ronde, Frank S. Co., 46 Cliff, New York

Dexter, C. H. & Sons (Tissue, etc.), Windsor Locks, Conn.

Ford Mfg. Co., 109 W Washington, Chicago, Ill.

Franklin Mfg. Co., Franklin, Pa.

Graham Paper Co. ("Mohegan," Jobbers), St. Louis, Mo.

Holden & Collins Co., 509 Ludlow, Phila., Pa.

Hollingsworth & Vose Co. (Tissue, etc.), 170 Summer, Boston, Mass.

Johns, H. W.-Manville Co. (Asbestos), 100 William, New York

Kingsley Paper Co., 172 St. Clair, Cleveland, O.

LEHON CO., W., 43d & Lincoln, Chicago, Ill. (See adv. index, end of book)

Lincoln Waterproof Cloth Co., Bound Brook, N. J.

MUNN-PRICE CO. ("Diamond P" Rope Insulating"), 413 N B'way (See adv. index, end of book)
Munsell, E. & Co., 218 Water, New York
Pittsburg Insulating Co., Fulton bldg, Pittsburg, Pa.
Schmidt & Ault Paper Co., York, Pa.
Standard Paint Co., 100 William, N. Y.
Tarentum Paper Mills, 1019 Liberty av, Pittsburg, Pa.
Trinidad Asphalt Mfg. Co. ("The T. A."), 320 S 21st, St. Louis, Mo.
Union Mills Paper Mfg. Co. (For Electric Light & Telephone), New Hope, Pa.
WATSON, H. F. CO. (Asbestos), Erie, Pa. (See adv. index & branch offices, end of book)
Whittelsey Paper Co. (Tissue, etc.), Windsor, Locks, Conn.

Insulating Plaster

California Anti-Caloric Co., 217 Mission, San Francisco, Cal.

Insulating Press Boards

Case Bros. (Inc.), Highland Park, Conn.
Rogers Paper Mfg. Co., South Manchester, Conn.

Insulating Saddle Staples

Insulating Saddle Staples Co. (for Electrical Work), Brockton, Mass.

Insulating Solder, Paste, Salts, Etc.

(See Soldering Paste, Salts & Stick)

Insulating Tape

(See Tape, Insulating)

Insulating Varnish

Eagle Paint & Varnish Co., Allegheny, Pa.
LEHON CO. (For Coating & Preserving Iron & Steel), W 43d & Lincoln, Chicago, Ill. (See adv. index, end of book)
Macon-Evans Varnish Co. ("Electrolac"), Pittsburg, Pa.
Massachusetts Chemical Co., Walpole, Mass.
Sherwin-Williams Co., 104 Canal, Cleveland, O.
Smith, Edw. & Co., 45 B'way New York.
STANDARD VARNISH WORKS, 29 B'way, New York. (See adv. index & branch offices, end of book)
Sterling Varnish Co., Pittsburg, Pa.
Trinidad Asphalt Mfg. Co., 320 S 12th st., St. Louis, Mo.

*Insulating ("Vulcabeston")

JOHNS-PRATT CO., THE, Hartford, Conn.

Insulation (Cold Storage & Refrigerator)

Armstrong Cork Co., 23d & River, Pittsburg, Pa.
Barrett Mfg. Co. (Insulating Rope), Land Title bldg, Philadelphia, Pa.
Bruening Cork Co. (Cork), Oakdale, Pa.
Fay Manilla Roofing Co., Camden, N. J.
Hydrex Felt & Engineering Co., 120 Liberty, New York
Johns, H. W.-Manville Co. ("J. M." Sheet Cork), 100 William, New York
Nonpareil Cork Works, 105 Hudson, New York
Redway, A. J. & Co. (Linofelt), Cincinnati, O.
Union Fibre Co. (Lith & Linofelt), Winona, Minn.

Insulator Pins, Brackets, Etc.

(See Cross Arms, Brackets & Pins, Wood)

Insulator Stud & Straight Hanger

Billings & Spencer Co. (Single & Double Curve), Hartford, Conn.
JOHNS-PRATT CO., THE, Hartford, Conn.

Insulator Supports

Steel City Electric Co. ("Universal" for Steel Work), Pittsburg, Pa.

Insulators

Akron Hi-Potential Porcelain Co. (High Voltage), Barberton, O.
Akron Smoking Pipe Co. (Clay & Porcelain Tubes), Mogadore, O.
American Ceramic Corporation ("Stegmayer," Clay), 1 Madison av, New York
Anderson, Albert & J. M. Mfg. Co., 289 A, So. Boston, Boston, Mass.
Billings & Spencer Co., Hartford, Conn.
Bossert Electric Construction Co. (Conduit Outlet), Utica, N. Y., & 26 Cortlandt, N. Y.
Bowers Mfg. Co. (Clay), Mogadore, O.
Brady, T. H. ("Brady's" High Voltage), New Britain, Conn.
Brian Pottery Co. (Porcelain), Trenton, N. J.
Brodie Electric Co. (Tree), Manchester, N. H.
Brookfield Glass Co. (Glass), 220 B'way, New York
Colonial Sign & Insulator Co. ("Poke" Telephone), Akron, O.
Creaghead Engineering Co. (Trolley & Section, "Creaghead," "West End" & Cap & Cone), 313 Walnut, Cincinnati, O.
Crescent Novelty Mfg. Co. ("Alva," Electrical), Chattanooga, Tenn.
Cutter, Geo. Co. (Arc & Tree), 129 Fulton, Chicago, Ill.
Diamond Porcelain Co. (Porcelain), Trenton, N. J.
Electric Porcelain & Mfg. Co. (of all kinds), Trenton, N. J.
Federal Clay Mfg. Co. (Vitrified Clay), B'way & 23d, New York
GENERAL ELECTRIC CO. (Porcelain), Wall, Floor, Pole, etc.), Schenectady, N. Y., & 44 Broad, New York. (See adv. index & branch offices, end of book)
Greenwood Pottery Co. (Porcelain), Trenton, N. J.
Hartford Faience Co. (Porcelain), Hartford, Conn.
Hemingray Glass Co. (Glass), Covington, Ky.
Homer Commutator Co. (Mica), 108 Mason, Cleveland, O.
Imperial Porcelain Works (Porcelain, Transmision), Trenton, N. J.
Independent Arm & Pin Co., Cham. of Commerce bldg, St. Louis, Mo.
Johns, H. W.-Manville Co. (Mica), 100 William, New York
JOHNS-PRATT CO., THE (Moulded Mica), Hartford, Conn.
Knowles, O. S. (Glass & Porcelain), 9 Arch, Boston, Mass.
Krantz, H. Mfg. Co. (or Nipples), Boerum pl. & State, Brooklyn, N. Y.
Leatheroid Mfg. Co. (Rail, etc.), Kennebunk, Me., & 108 Lincoln, Boston, Mass.
Lima Insulator Co. (Porcelain), Lima, N. Y.
Locke Insulator Mfg. Co. (High Voltage, Porcelain & China), Victor, N. Y.
Macallen Co. (Overhead), cor Foundry & Division, Boston, Mass.
Mica Insulator Co. (Mica), 218 Water, New York
National Porcelain Co. (Porcelain), Trenton, N. J.
North Carolina Tale & Mining Co. (Tale), Hewitt, N. C.
Ohio Brass Co. (Tree), Mansfield, O.
OKONITE CO. (Ltd.), 253 B'way, N. Y. (See adv. index, end of book)
Pass & Seymour, Solvay, N. Y.
Peru Electric Mfg. Co., Peru, Ind.
Reconstructed Granite Co. (Granite—Thrd Rail), 14 Dey, New York
Renlm Specialty Co. (Porcelain Wiring Tubes), Faneuil Station, Boston, Mass.
Sills-Eddy Mica Co. ("Micageston" Mica), Newark, N. J.
Standard Vitrified Conduit Co. (Clay Vitrified Salt Glazed), 39 Cortlandt, N. Y.
Star Porcelain Co. (Porcelain), Trenton, N. J.
Steward, D. M. Mfg. Co. ("Lavite"), East End, Chattanooga, Tenn.
Thomas, R & Sons Co. (Porcelain), East Liverpool, O.
Union Fibre Co. (Lith Board & Flax Fibre), Winona, Minn.
Union Porcelain Works (Porcelain), 300 Eckford, Brooklyn, N. Y.
Western Electric Co., 259 S Clinton, Chicago, & 57 Bethune, New York
Westinghouse Glass Factory (Glass), Westinghouse bldg, Pittsburg, Pa.

Insulators (Strain)

(See also Insulators.)

Billings & Spencer Co. (Drop Forged), Hartford, Conn.
Creaghead Engineering Co. ("Bourbon"), 313 Walnut, Cincinnati, O.
Johns, H. W.-Manville Co. ("J.-M."), 100 William, New York
JOHNS-PRATT CO., THE, Hartford, Conn.
Locke Insulator Mfg. Co. ("Victor"), Victor, Pass & Seymour, Solvay, N. Y.

Insulators (Third Rail)

(See also Insulators)

Erie City Iron Works ("The Slade"), Erie, Pa.
Federal Clay Mfg. Co. (Vitrified Clay), 170 B'way, N. Y.
GENERAL ELECTRIC CO., Schenectady, N. Y., & 44 Broad, New York. (See adv. index, end of book)
Johns, H. W.-Manville Co., 100 William, New York
N. Y. Rail Insulation Equipment Co., Newark, Ohio
Ohio Brass Co., Mansfield, Ohio
Reconstructed Granite Co., 14 Dey, New York
Works, Norristown, Pa.
Standard Vitrified Conduit Co. ("Manhattan"), 39 Cortlandt, N. Y.
Western Electric Co., 259 S Clinton, Chicago, Ill.

Insulators (Tree)

(See also Insulators.)

Anderson, Albert & J. M. Mfg. Co., 289 A, S Boston, Boston, Mass.
Brodie Electric Co., Manchester, N. H.
Cutter, Geo. Co., 129 Fulton, Chicago
Johns, H. W.-Manville Co., 100 William, New York
Ohio Brass Co., Mansfield, Ohio

Insulators (Trolley)

(See Insulators)

Insurance (Accident)

Aetna Life Insurance Co., Hartford, Conn.
American Fidelity Co., Montpelier, Vt.
Casualty Co. of America, 52 William, N. Y.
Employers' Liability Assurance Corporation (Ltd.), of London, England, Samuel Appleton, Manager & Attorney for U. S., 71 Kilby, Boston, Mass.
Fidelity & Casualty Co., 97 Cedar, New York, & N. Y. Life bldg, Chicago
Frankfort Insurance Co., 100 William, N. Y.
Gen. Accident Ins. Co., Philadelphia, Pa.
Great Eastern Casualty & Indemnity Co., 290 B'way, N. Y.
London Guarantee & Accident Co., Chicago, Ill.
Maryland Casualty Co., Maryland Casualty bldg, Baltimore, Md., & 76 William, New York
New Amsterdam Casualty Co., 74 William, New York
North American Accident Insurance Co., Rookery, Chicago, Ill.
Ocean Accident & Guarantee Corp., 350 B'way, New York
Pacific Mutual Life Ins. Co., 508 Montgomery, San Francisco, Cal.
Pennsylvania Casualty Co., Scranton, Pa.
Philadelphia Casualty Co., Philadelphia, Pa.
Preferred Accident Ins. Co., 290 B'way, N. Y.
Standard Life & Accident Ins. Co., Detroit, Mich.
TRAVELERS INSURANCE CO., Hartford, Conn., & 31 Nassau, N. Y.
U. S. Casualty Co., 141 B'way, N. Y.
U. S. Health & Accident Insurance Co., Saginaw, Mich.

Insurance (Employers' Liability)

Aetna Life Insurance Co., Hartford, Conn.
American Fidelity Co., Montpelier, Vt.
Casualty Co. of America, 52 William, N. Y.
Employers' Liability Assurance Corporation (Ltd.), of London, England, Samuel Appleton, Manager & Attorney for U. S., 71 Kilby, Boston, Mass.
Fidelity & Casualty Co., 101 Cedar, New York, & N. Y. Life bldg, Chicago, Ill.
Frankfort American Insurance Co., 43 Cedar, New York
Frankfort Marine, Accident & Plate Glass Insurance Co., 153 LaSalle, Chicago, Ill.
Gen. Accident Ins. Co., Philadelphia, Pa.

The Travelers Indemnity Company

of Hartford

Steam Boiler and Fly-Wheel Insurance,
also Property Damage Insurance for
Automobile Owners, in connection with
the Liability Policies of The Travelers
Insurance Company.

| | | | | | |
|-------------------------------|---|---|---|---|-----------|
| CAPITAL, | / | / | / | / | \$500,000 |
| RESERVES AND ALL OBLIGATIONS, | | | | | 375,000 |
| SURPLUS, | / | / | / | / | 125,000 |

THE TRAVELERS INDEMNITY COMPANY

IS OWNED AND CONTROLLED BY

THE TRAVELERS INSURANCE COMPANY

OF HARTFORD



**IF YOU FAIL TO FIND
IN THIS**

**COMMERCIAL
REGISTER.**

**THAT WHICH YOU ARE
LOOKING FOR**

WRITE US—

Enclosing a two cent stamp for reply and we will at once use our best endeavor to supply the information desired, free of charge.

S. E. HENDRICKS CO.,

74 Lafayette Street, [Corner Franklin,] NEW YORK.



London Guarantee & Accident Co., of London, England; 315 Dearborn, Chicago, Ill., & 45 Cedar, New York
 Maryland Casualty Co., Maryland Casualty bldg., Baltimore, Md., & 76 William, New York
 New Amsterdam Casualty Co., 76 William, N. Y.
 New York Casualty Co., 150 Nassau, New York
 Ocean Accident & Guarantee Corp., 350 B'way, New York
 Standard Life & Accident Ins. Co., Moffat bldg., Detroit, Mich., & 92 William, New York
TRAVELERS INSURANCE CO., Hartford, Conn., & 31 Nassau, New York
 United States Casualty Co., 141 B'way, New York

Insurance (Health)

(See Insurance, Accident.)

Insurance (Indemnity Bond)

Aetna Indemnity Co., 650 Main, Hartford, Conn., & 68 William, New York
 American Bonding Co. of Baltimore, Tacoma bldg., Baltimore, Md., & 32 Nassau, New York
 American Fidelity Co., Montpelier, Vt.
 American Surety Co., 100 B'way, New York
 City Trust, Safe Deposit & Surety Co., 927 Chestnut, Phila., Pa.
 Employers' Liability Assurance Corp. (Ltd.), of London, Eng. Samuel Appleton, Manager & Attorney for U. S., 71 Kilby, Boston, Mass.
 Fidelity & Casualty Co., 97 Cedar, N. Y., & N. Y. Life bldg., Chicago
 Fidelity & Deposit Co., Baltimore, Md.
 Guarantee Co. of North America, Montreal, Canada
 Lawyers' Surety Co., 66 Liberty, New York
 Maryland Casualty Co., Maryland Casualty bldg., Baltimore, Md., & 76 William, New York
 National Surety Co., 253 B'way, New York, & "The Rookery," Chicago
 Ocean Accident & Guarantee Corp., 350 B'way, New York
 Pacific Surety Company, San Francisco, Cal.

U. S. Fidelity & Guaranty Co., Calvert & German, Baltimore, Md.
 U. S. Guarantee Co., 115 B'way, New York & 400 "The Temple," Chicago, Ill.

Insurance & Inspection (Elevator)

(See Insurance, Indemnity Bond)

Insurance & Inspection (Steam Boiler)

Casualty Co. of America, 52 William, New York
 Employees' Indemnity Co. of Philadelphia, Stephen Girard bldg Philadelphia, Pa.
 Fidelity & Casualty Co., 97 Cedar, N. Y., & N. Y. Life bldg., Chicago
HARTFORD STEAM BOILER INSPECTION & Insurance Co., Hartford, Conn. (See adv. below)



Maryland Casualty Co., Maryland Casualty bldg., Baltimore, Md., & 76 William, New York
 Ocean Accident & Guarantee Corp., 350 B'way, New York
 Pacific Surety Co., San Francisco, Cal.
 Pennsylvania Casualty Co., Scranton, Pa.
 Philadelphia Casualty Co., Phila., Pa.
TRAVELERS INDEMNITY CO., Hartford, Conn.; 1 Madison av., & 31 Nassau, New York
 U. S. Casualty Co., 141 B'way, N. Y.

Intensifiers

Bethlehem Steel Co., South Bethlehem, Pa., & 100 B'way, New York
 Philadelphia Roll & Machine Co. (Hydraulic), 23d & Wash'n, Phila., Pa.
 United Engineering & Foundry Co. (Air, Hydraulic & Steam, Compound or Double), Pittsburgh, Pa.
 Wood, R. D. & Co. (Hydraulic, Single & Multiple), 400 Chestnut, Phila., Pa.

*Intercoolers (Air)

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)
INGERSOLL-RAND CO., 11 B'way, New York. (See adv. index & branch offices, end of book)

Interior Finish (Metal Covered)

(See Bank & Office Fixtures, Metallic)

Interior Finish (Wholesale Mfrs.)

(See also Interior Hardwood Work Mfrs. & Erectors)

CHICAGO MILL WORK SUPPLY CO., cor 22d & Sangamon, Chicago, Ill. (See adv. Compound Door Co., St. Joseph, Mo., below)
 Cream City Sash & Door Co., Milwaukee, Wis.
 Curtis & Yale Co., Wausau, Wis.
CYPRESS LUMBER CO. (Wholesale Mfrs.), 88 Broad, Boston, Mass., & Apalachicola, Fla. (See adv. index, end of book)
 Disbrow, M. A. & Co., Lyons, Ia.
 Fitzgerald, Speer Co., Pen Argyle, Pa.
 Foster-Munger Co., 20th & S Sangamon, Chicago, Ill.
 Fuller & Rice Lumber & Mfg. Co., Grand Rapids, Mich.
 Gauger, Jno. A. & Co., W 22d & Laflin, Chicago, Ill.
 Gilmour, David, Mfg. Co., 579 Tonawanda, Buffalo, N. Y.

CHICAGO MILLWORK SUPPLY CO.

Wholesale Manufacturers of Millwork.

SEND FOR OUR CATALOG No. 15 E

GIVING EXACT NET PRICES ON

Windows, Doors, Blinds, Molding, Porch
 Work, Stair Work, Flooring, Grilles, Mantels,
 Columns, Etc., Etc. WE SELL DIRECT.

SEND IN YOUR LISTS FOR ESTIMATE.

22d and Sangamon Sts. CHICAGO, U. S. A.

Gould Mfg. Co., Oshkosh, Wis.
Hafner Mfg. Co., Main & Dock, St. Louis, Mo.
Hilgen Mfg. Co., Cedarburg, Wis.
Huttig Mfg. Co., Muscatine, Ia.
Hyde-Murphy Co., Ridgway, Pa.
Ironton Door Co., Ironton, O.
Kertscher & Co., Elmira, N. Y., & 13 Lawrence, New York

Laird-Norton Co., Winona, Minn.
McClelland, T. W. Co., Davenport, Ia.
McMillen, R. Co., Oshkosh, Wis.
Menasha Mfg. Co., Menasha, Wis.
Morgan Co., Oshkosh, Wis.
Nesbit, D. M. Co. (Wholesale Mfrs.), Lewisburg, Pa.

North Vernon Pump & Lumber Co., North Vernon, Ind.
Orcutt & Porter Co., Mechanicsburg, N. Y.
Paine Lumber Co., Oshkosh, Wis., & 1 Madison av, New York

Radford Sash & Door Co., Oshkosh, Wis., & 102 W 22d, Chicago
Rhinesmith & Simonson, Fort Wayne, Ind.
Roach & Musser Mfg. Co., Kansas City, Mo.
Roach & Musser Sash & Door Co., Muscatine, Iowa

Roberts, E. L. & Co., W. 22d & Union pl, Chicago
Roberts, U. N. Co., Davenport, Ia.
Rock Island Sash & Door Works, Rock Island, Ill.
Rockwell Mfg. Co., Milwaukee, Wis.
St. Louis Sash & Door Works, Dock & Main, St. Louis, Mo.

Seattle Cedar Lumber Mfg. Co., Seattle, Wash.
STEARNS, A. T. LUMBER CO. (Cypress), Neponset, Boston, Mass. (See adv. index, end of book)

Wabash Cabinet Co., Wabash, Ind.
Washburn, Williams & Co., Scranton, Pa.
Whatecom Falls Mill Co. (Red Cedar), New Whatecom, Wash.

Werheim Mfg. Co., Wausaw, Wis.
Wheeler, Osgood Co. (Cedar & Fir), Tacoma, Wash.
Willer Mfg. Co., 313 Cedar, Milwaukee, Wis.
Winona Lumber Co., Winona, Minn.

Interior Hardwood Work (Mfrs. & Erectors)

Batavia & New York Wood-Working Co., Batavia, N. Y., & 949 B'way, New York
Baulia, Garrell Co., Lakeport, N. H.
Baumgarten, Wm. & Co., 323 5th av, New York
Bishop, J. W. Co., 109 Foster, Worcester, Mass.
Bohn Mfg. Co., Arcade & Wells, St. Paul, Minn.

Bossert, Louis & Son, Grand & Newtown Creek, Brooklyn, N. Y.

Bush Bros., Rogersford, Pa.
Bush, Jas. S., 239 B'way, New York
Carr-Ryder & Adams Co., Dubuque, Ia.

CHICAGO MILL WORK SUPPLY CO., 239 W 22d, Chicago, Ill. (See adv. on preceding page)

Curtis & Yale Co., Wausaw, Wis.
Edmunds Mfg. Co., c S Robey & Washburne av, Chicago

Flint, George C. Co., 45 W 23d, New York
Frebing Mfg. Co., 45 Centre, Cleveland, O.
Goodlander, G. W., Postal Tel. bldg, Kansas City, Mo.

Hale & Kilburn Mfg. Co., 48 N 6th, Philadelphia, Pa.

Hand's, W. H. Sons, 2638 Park av, New York
Harlan & Hollingsworth Co., Wilmington, Del.
Hayden Co., 520 5th av, New York
Hedden, V. J. & Sons Co., 491 Ogden, Newark, N. J.

Heitland, J. H., 100 N Front, Quincy, Ill.
Herter Bros., 489 5th av, New York
Herts Bros., 507 5th av, New York
Hess, D. S. & Co., 421 5th av, New York
Hoffstatter, Theo. & Co., 589 5th av, New York
Huttig Mfg. Co. (Wholesale Mfrs.), Muscatine, Ia.
Hyde-Murphy Co., Ridgway, Pa.

INTERIOR HARDWOOD CO., Indianapolis, Ind. (See adv. index, end of book)

Jobst, B. J., Paxton blk, Omaha, Neb.
Kalamazoo Tank & Silo Co., Kalamazoo, Mich.
Kertscher & Co., Elmira, N. Y., & 13 Lawrence, New York

Kilian Bros. & Somma, 12th av & 30th, New York

Kimbel, A. & Sons, 389 5th av, New York
Kleeman, Wm. & Co., 619 W 54th, New York
Knight & Sons, Battle Creek, Mich.
McConnell Mfg. Co., Hornellsville, N. Y., & 160 5th av, New York

McGonigle, James A., Leavenworth, Kan.
McLeod, Angus Co., 409 6th av S, Minneapolis, Minn.
Maclean, J. S., Columbus, Ohio.
Matthews Bros. Mfg. Co., Milwaukee, Wis.

Miller, William & Sons Co., Rochester, Pa., & Frick bldg, Pittsburgh, Pa.
Mitchell, Robert, Furniture Co., 624 Race, Cincinnati, O.

Moore, S. C. & Son, Kokomo, Ind.
Orcutt & Porter Co., Mechanicsville, N. Y.
Osgood, Blodgett Mfg. Co., St. Paul, Minn.
Palen's, H. W. Sons, Kingstou, N. Y.
Passman & Dauere, 501 E 70th, New York
Piuches, J. Co., New Britain, Conn.
Poppert, Geo., Mfg. Co., 419 Poplar, Milwaukee, Wis.

Pottier & Styms Co., 375 Lex. av, New York
Raabe, H. & Sons, 319 W 64th, New York
Richardson & Burgess, 613 14th, N W Washington, D. C.
Roehr Co., Bucyrus, O.
Rummier, H. B., 367 W 11th, New York
St. Paul Furniture Co., 7 Corners, St. Paul, Minn.

Schaettler, F., 533 W 34th, New York
Schmid, Geo. A., 702 E Main, Streator, Ill.
Seaman, W. S. & Co., 216 E Water, Milwaukee, Wis.

Sbenk, Henry Co., Erie, Pa., & Lewis blk, Pittsburgh, Pa.
Simonson Bros. Mfg. Co., Minneapolis, Minn.
Sloane & Moller, 316 E 64th, New York

Stannard, Ambrose B., 1133 B'way, New York
Strobel, Philip & Sons, 53 Elizabeth, New York
Taylor, Henry Lumber Co., Lafayette, Ind.
Taylor, Wm. M. Mantel & Grate Co., Inc., Columbus, Ohio

Tiedt & Markthaler, 276 9th av, New York
VAN KANNEL REVOLVING DOOR Co. (Mfrs.), Home Office, 524 E 132th, New York. (See adv. index & branch offices, end of book)

Weybrecht's, J. T. Sons, Alliance, O.
Willer Mfg. Co., 313 Cedar, Milwaukee, Wis.
Williamsport Planing Mill Co., Williamsport, Pa.

WILSON, JAS. G. MFG. CO., 3 W 29th, New York. Factory, Norfolk, Va. (See adv. index, end of book)

Wolfinger, Clarence I., 164 LaSalle, Chicago, Ill.

Wollaeger Mfg. Co., 636 N Water, Milwaukee, Wis.

*Interior Trim (Kalamein)

RAPP, JNO. W. (Genuine Kalamein-) ed Doors, Windows & Interior Trim, gen'l office & works, College Point, N. Y. City, & sales office, 4 Madison av, New York. (See adv. index, end of book)

Iron (Architectural & Ornamental)

Star (*) in front of firm names under this classification designates founders who also make Builders' Castings, and the words "Cast, Wrought, Ornamental," etc., indicate the kinds.

The following are sub-classifications and duplications of this trade:

Bank & Office Railings.
Elevator Cars.
Elevator Enclosures.
Fire Escapes.
Gates (Ornamental Iron).
Grilles (Brass & Bronze).
Grilles (Wrought Iron).
Iron Railings & Fences.
Iron Jail & Cell Work.
Iron Stair Builders.

ALABAMA.

BIRMINGHAM—Williamson Iron Co.
CULLMAN—Ehrensperger, H.
HUNTSVILLE—Huntsville Foundry & Machine Works (Nolan & Jones, Props.)

MOBILE—Alabama Iron Works
Buergen, August (Railings)
MONTGOMERY—*Janney, A. A. Co.
SELMA—Peacock's Iron Works

ARKANSAS.

LITTLE ROCK—Thomas-Fordyce Mfg. Co.
Wing & Stephens Co.
PINE BLUFF—Dilley Foundry Co.

CALIFORNIA.

FRESNO—Fresno Agricultural Works
Halford, J.
Valley Foundry & Machine Works.
HAYWARDS—Linekim & Allen
LOS ANGELES—Bailey Ornamental Iron Co.
*Baker Iron Works, 950 Buena Vista
Fruhling, W. A., 218 E. 4th

Fulton Engine Works, N Main c Alhambra
Llewellyn Iron Works, N Main c Redondo
Los Angeles Art Metal Works
Union Iron Works, Molino c Palmetto

***WINSLOW BROS. COMPANY,** Union Trust bldg. (See adv. index, end of book)

OAKLAND—Aetna Iron Works
Matthews, Francis I.
*White-Fraunder Iron Works
SACRAMENTO—Root, Nelson & Co.
SAN DIEGO—Standard Iron Works
Sterne Bros. Co.

SAN FRANCISCO—Bay City Iron Works, 136 Main

Brode & Clark Iron Works, 621 Howard
California Artistic Metal & Wire Co., 539 Mission

*Hendy, Joshua, Machine Works, 38 Fremont

*Jackson, P. H. & Co., 228 1st

Lutge, Richard, 18th & Treat av

MINNEAPOLIS STEEL & MACHIN- ery Co., 633 Monadnock bldg. (See adv. index, end of book)

Ralston Iron Works, 222 Howard
Schrader's Iron Works, 117 Beale
Standard Iron & Wire Works, 539 Mission
Vulcan Iron Works, 505 Mission
Western Iron Works, 123 Beale

***WINSLOW BROS. COMPANY,** 121 New Montgomery. (See adv. index, end of book)

SAN JOSE—Kuehenbeiser, F. & Son

STOCKTON—Globe Iron Works (Inc.)
Stockton Iron Works

COLORADO.

COLORADO SPRINGS—Hassell Iron Works Co.
DENVER—Colorado Iron Works, 33d & Wynkoop

*Davis, F. M. Iron Works Co., 723 Larimer

MINNEAPOLIS STEEL & MACHIN- ery Co., 313 Exchange bldg. (See adv. index, end of book)

Pioneer Iron & Wire Works Co., 1437 Market

Vulcan Iron Works Co., 1709 Blake ket

White Bros. Mfg. Co., successors to the
Denver Iron & Wire Works Co., office, 209
Continental bldg. Works: W 12th av & S 4th

PUEBLO—Pueblo Bridge Co., Riverside bldg

CONNECTICUT.

BRIDGEPORT—Bridgeport Boiler Works
Pacific Iron Works (Inc.)

*Parsons, R. E. Co. (Castings Only)

BRISTOL—Sessions Foundry Co.

HARTFORD—Aldhurst Iron Co.
Buellesbach, Wm., 103 Potter
Hartford Foundry Corp.

Laragy, Patk
*Phoenix Iron Works Co.

MERIDEN—BRADLEY & HUBBARD
Mfg. Co. (See adv. index, end of book)

NEW HAVEN—Burgess, Ed. A. (Est. of), 67 Court

*McLagon Foundry Co., 96 Andubon n Whitney av

Waas, Jules, 41 Judson av

Wilson, Robert, 115 Commerce

Yale Safe & Iron Co., 52 Richards

NORWICH—*Vaughn Foundry Co. (Inc.)

SOUTH NORWALK—Duncan Iron Railing Works, 49 Water

STAMFORD—Stamford Iron Works

WATERBURY—Brenner Bros. Mfg. Co., 36 Ward

Fry, B. H. & Co., Porter c S Leonard

*Manufacturers' Foundry Co., 27 Benedict

DELAWARE.

WILMINGTON—Davis, Leonard D.

DISTRICT OF COLUMBIA.

WASHINGTON—Barber & Ross, 614 11th, N W

Blatzheim, Jacob, 27 O, N E

Corning, J. H., 520 13th, N W

Gichner, F. S., 310 12th N W

Jorss, A. F., 315 13th, N W

McGill, James H., McGill bldg

*Schneider's, C. A. Sons, Ohio av & 12th, N W

White, F. J., 462 Me av, S W

FLORIDA.

ORLANDO—South Florida Found. Machine Wks

PENSACOLA—Pensacola Found. & Boiler Wks

ST. AUGUSTINE—Hamblen, C. F.

When writing to firms listed in this book please mention HENDRICKS' COMMERCIAL REGISTER

J. G. BRAUN,

322 to 328 So. Paulina St., CHICAGO

537 to 541 W. 35th St., NEW YORK

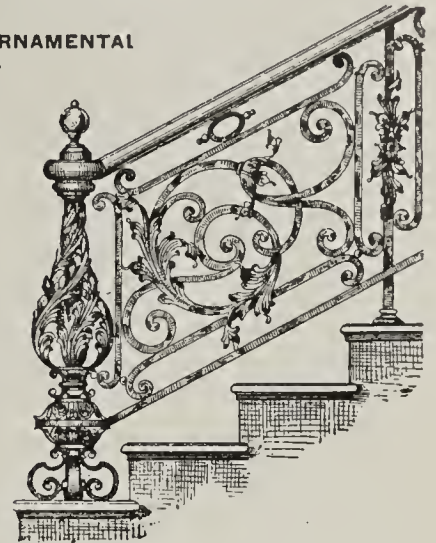
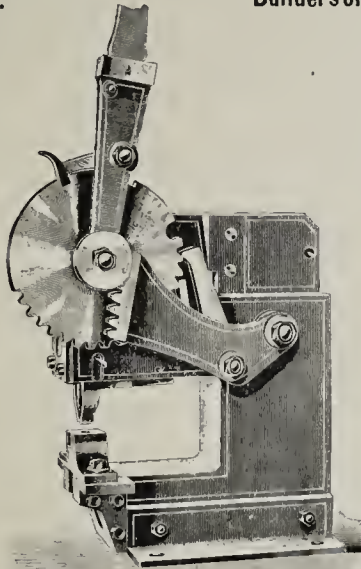
CARRIES A COMPLETE STOCK OF

Steel Mouldings for Store Fronts, Elevator Enclosures, Etc.

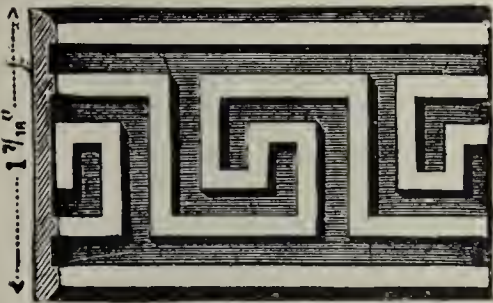
PLAIN AND ORNAMENTAL SASH BARS, ROSETTES, LEAVES, PICKETS AND ORNAMENTAL RIVETS, SQUARE ROOT ANGLE IRON FROM $\frac{3}{8}$ "x $\frac{3}{8}$ "x1-10" UPWARDS.

Square Tubing for
Elevators, Elevator Enclosures
and Office Railings.

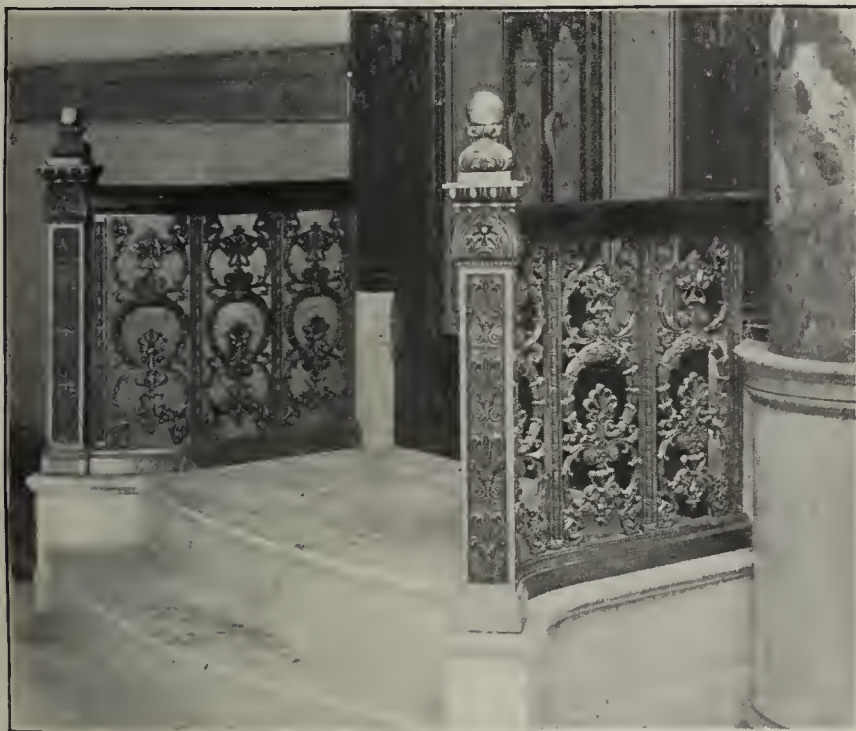
Catalogue to Architects,
Architectural Iron Works and
Builders only on Application.



BEST PUNCHES
SHEARS
ALL FORGED STEEL.



BRADLEY & HUBBARD MFG. CO., MERIDEN, CONN.



STAIRS, RAILINGS, WINDOW GUARDS,
SCREENS, FENCES, GATES.

BANK and OFFICE RAILINGS,
GRILLES and SCREENS,
ELEVATOR ENCLOSURES and CARS,
VESTIBULE DOORS.

ANDIRONS, FENDERS, FIRE SETS, Etc.

Gas and Electric Light Fixtures.

Designs and Estimates Furnished Promptly
Correspondence Solicited.

BRONZE, BRASS AND IRON WORK.

F. P. SMITH WIRE & IRON WORKS



Ornamental Iron Gates

OFFICE AND WAREHOUSE

100 - 102 LAKE STREET, CHICAGO, ILL.

Foundry and Shops, Chester St., Clybourn and Fullerton Aves.

STRUCTURAL AND ORNAMENTAL
IRON AND BRONZE WORK
IRON, BRONZE AND BRASS FOUNDERS

DESIGNERS AND MANUFACTURERS OF

Art Metal Work, Iron Fences, Elevator Enclosures and Cabs,
Balcony Railings, Iron Columns and Stairs, Jails, Guards,
Bank Interiors, Fire Escapes, Shutters and Doors, Stable
Fittings, Crestings and Vanes, Wire Cloth, Brass and
Electro-Plated Work, Metal Lockers, Etc.

Catalogue on Application

SAND BLASTING



BROWN BROS. MFG. CO.

ESTABLISHED IN 1860

THE HIGHEST GRADE OF

== ORNAMENTAL ==
IRON AND BRONZE

MAIN OFFICE AND WORKS

22nd STREET and CAMPBELL AVE.

CHICAGO

GEORGIA.

ATLANTA—Atlanta Machine Works
Atlanta Wire & Iron Works Co.
*Fulton Foundry & Machine Works
*Withers Foundry & Machine Works
AUGUSTA—Lombard Iron Works & Supply Co.
DALTON—Dalton Foundry & Machine Works
*Sanders Mfg. Co.
GAINESVILLE—Gainesville Iron Works
SAVANNAH—Kchoe's Iron Works
John Rourke & Sons
WEST POINT—West Point Iron Works

IDAHO.

BOISE—Baxter, Jas. & Co.

ILLINOIS.

AURORA—Love Bros. (Inc.)
BLOOMINGTON—American Foundry & Furnace
MaGill, P. H. Co.
CHICAGO—American Iron & Wire Works, 577
Carroll av
Barbee Wire & Iron Works (Ornamental
only), 44 Dearborn
Benner Mfg. Co., 110 W Monroe
Bolter's, A. Sons, 84 LaSalle
Booth, John, Wire & Iron Works, 37 In-
Brandes, Carl, 1033 Otto diana
BROWN BROS. MFG. CO., 22d &
Campbell av. (See adv. index, end of book)
*Brown-Ketcham Iron Works, 1642 Monad-
nock blk
Butler Street Foundry & Iron Co., 3422 But-
ler
*Central Architectural Iron Works (Inc.)
4103 La Salle
Central Iron Works (of Chicago), 263 W
Lake
Chicago Bridge & Iron Works, 105th &
Throop
CHICAGO ORNAMENTAL IRON CO.
37th & Stewart av. (See adv. below)
CHICAGO SIDEWALK LIGHT CO.,
101 Washington. (See adv. at bottom)
*Dauchy Iron Works (Cast, Wrought &
Ornamental), 88 Illinois

*Dearborn Foundry Co. (Cast & Wrought),
1525 Dearborn
Eastern Metal Works, Unity bldg.
Hallett Iron Works, 96 W Polk
***HALSTED, JOSEPH CO., 388 W.**
Randolph. (See adv. index, end of book)
Hansell-Elcock Co., 251 23d pl
HARRIS SAFETY CO., Masonic
Temple. (See adv. index, end of book)
Heath-Johnson Co., 141 Ontario
Heinemann, Louis, 819 Melrose
HICKEY, M. H. WIRE & IRON
Works, 54 Dearborn
*Holmes, Pyott Co., 13 N Jefferson
Johnson Iron Works, 112 Ohio
Kenwood Bridge Co., 1st Nat'l Bank bldg
LONDON, E. R. IRON & WIRE
Works, 1243 Fillmore. (See adv. index,
end of book)
***MINNEAPOLIS STEEL & MA-**
chinery Co. (Cavanaugh-Darley Co., Rep.),
21-25 Plymouth ct. (See adv. index, end
of book)
Muth, Christian, 428 Blue Island av
Ruedel, Juo. M., 514 Ogden av
Scaar, Frank, 98 11th
Seidel, Paul, Ornamental Iron Works, 780
W Chicago av
***SMITH, F. P. WIRE & IRON**
Works (Wrought, Cast & Ornamental),
100 Lake. (See adv. index, end of book)
South Halsted Street Iron Works, 2611 S
Halsted
South-Western Architectural Iron Works,
734 Blue Island av
Standard Arch'l. Iron Works, 181 Newberry
Staudard Co. (Ornamental Iron & Brass
Works), W 15th & Laflin
***UNION FOUNDRY WORKS, First**
National Bank bldg. (See adv. index, end
of book)
Vanderpoel & Co., 497 W 22d
*Vierling, McDowell & Co., 23d, c Stew-
art av
*Voss, Fred'k, 617 to 621 Austin av
Wehrum, Wm. H., 985 Kimbell av
***WINSLOW BROS. COMPANY, 2515**
W Harrison. (See adv. index, end of book)
WORDEN-ALLEN CO., 184 La
Salle. (See adv. index, end of book)
WRIGHT WIRE CO., 219 E Kinzie.
(See adv. on following page)
DECATUR—Union Iron Works
ELGIN—Woodruff & Edwards Co.

GALESBURG—*Colton, G. D. & Co.
*Frost Mfg. Co.
JOLIET—Adams, Steel & Wire Works.
*Bates Machine Co.
MACOMB—Fisher Arch Foundry & Machine
Shop
OTTAWA—Knowles, W. H.
PEORIA—Excelsior Foundry Co.
*Lucas, A. & Sons, 1328 S Wash'n
*Peoria Foundry Co.
PERU—*Brunner, Chas. (Columns & Castings
Only)
QUINCY—Central Iron Works
Heine, Ferdinand
Reliable Foundry Co.
ROCKFORD—Love Mfg. Co.
*Union Foundry & Machine Co.
ROCK ISLAND—*Mager, S. A. Mfg. Co.
SPRINGFIELD—*Aetna Foundry & Machine Co.
(Castings, etc.)

INDIANA.

COLUMBUS—*Caldwell & Drake Iron Works
EVANSVILLE—Grote Mfg. Co.
Liudenschmidt, H. & G.
*Mesker, Geo. L. & Co.
FORT WAYNE—Borchering, F. H.
*Fort Wayne Foundry & Machine Co.
Kerr-Murray Mfg. Co.
FRANKFORT—Frankfort Iron Fence Works
GOSHEN—Kelly Foundry & Machine Co.
Thomas-Allbright Co.
INDIANAPOLIS—*Brown-Ketcham Iron Wks,
2549 W Michigan
Enterprise Foundry & Fence Co., 372 S Sen-
ate av
Hetherington & Berner, 27 W South
Inland Novelty Iron Works, 208 S Penn
Insley Iron Works
Melaun, Ernst, 612 E Wash'n
*Noelke-Richards Iron Works, 180 E Palmer
Roch, Tobias, 225 E Pearl
LAFAYETTE—*Barbee Wire & Iron Works
*Wallace Machine & Foundry Co.
MUNCIE—*Hanika, Chas. E.
*Muncie Foundry & Machine Co. (Castings)
RICHMOND—Marlatt, S., 182 Ft. Wayne av
SOUTH BEND—Sibley & Ware
*South Bend Foundry Co.
TERRE HAUTE—Hazeldine, E. T., 231 S 1st
Parker, Thatcher A., 1st & Walnut
*Prox, Frank, Co.
Up-to-date Mfg. Co.
WARSAW—Werntz, O. W. (Cast)

CHICAGO ORNAMENTAL IRON COMPANY

37th STREET AND STEWART AVENUE - - - - CHICAGO

LARGE BOWER-BARFF FURNACE AND ELECTRO-PLATING PLANT

Contractors for Ornamental Iron and Bronze on the following Buildings:

The New Chicago Public Library, Chicago.
The New First National Bank Building, Chicago.
The New York Life Building, Chicago.
The Railway Exchange Building, Chicago.
The Otto Young Building, Chicago.
The New Marshall Field Building, Chicago.
Columbus Memorial Building, Chicago.
Commercial National Bank Building, Chicago.
Cook County Court House, Chicago.
Blackstone Memorial Library, Chicago.
Blackstone Memorial Library, Branford, Conn.
Continental Trust Building, Baltimore, Md.

Land, Title & Trust Building, Philadelphia, Pa.
Brown's Palace Hotel, Denver, Col.
Merchants' Exchange Building, San Francisco, Cal.
Douglas Building, Los Angeles, Cal.
Planters' Hotel, St. Louis, Mo.
Hibernia Bank & Trust Co. Building, New Orleans, La.
Woodward Building, Birmingham, Ala.
First National Bank Building, Birmingham, Ala.
Brown Marx Building, Birmingham, Ala.
Keystone Bank Building, Pittsburg, Pa.
H. C. Frick Building, Pittsburg, Pa.
Baltimore & Ohio R. R. Building, Baltimore, Md.

Union Depot, Washington, D. C.

AND MANY OTHER IMPORTANT BUILDINGS THROUGHOUT THE COUNTRY

**Sidewalk,
Floor and
Skylights.
Area Doors,
Coal-Hole Covers.**

OFFICE:

103, 101 Washington St.

Send for Catalogue No. 4.



**Our Patent
Refracting
Prisms
Light Deep
Basements.**

WORKS:

**3142-44-46 Butler Street,
CHICAGO.**

IOWA.

BURLINGTON—*Murray Iron Works Co.
 CEDAR RAPIDS—Carmody, J. T.
 *Cedar Rapids Foundry & Machine Co.
 Stry, F.
 CLINTON—Clinton Bridge & Iron Works
 Clinton Novelty Iron Works
 COUNCIL BLUFFS—*Sprague Foundry & Mfg. Co.
 DAVENPORT—*Davenport Foundry & Machine Co.
 Davenport Iron Works
 Schneider, Chris.
 DES MOINES—American Iron Works
 Central Iron Works
 Des Moines Bridge & Iron Works
 Des Moines Mfg. & Supply Co.
 *Eagle Iron Works
 DUBUQUE—Dubuque Boat & Boiler Works
 *Voggenthaler, E. J. Co.
 IOWA CITY—Schmidt, G. W., 325 Gilbert
 Tulloss, I. E.
 LAKE MILLS—Opdahl, Jno.
 LE MARS—Peech, Gustave.
 MARSHALLTOWN—*Shorthill, A. E. Co.
 MASON CITY—*Hathorn Foundry & Machine Co.
 MUSCATINE—*Niver Iron Works Co.
 OSKALOOSA—Seevers Mfg. Co.
 SIOUX CITY—Herman & Savage
 Strauss Bros.
 WATERLOO—Goodman, W. A. & Son
 *Headford Bros. & Hitchins Foundry Co.

KANSAS.

ATCHISON—Seaton, John
 EMPORIA—Jones, Jos. C. & Sons
 FORT SCOTT—*Fort Scott Foundry & Machine Works
 Gunsauls, F.
 Kite Bros.
 JUNCTION CITY—*Pearce & Ziegler (Foundry)
 KANSAS CITY—*Riverside Iron Works Co.,
 Central av & 4th
 LEAVENWORTH—Missouri Valley Bridge &
 PARSONS—Steele Hardware Co. Iron Works
 TOPEKA—Capital Iron Works, 7th & R. R.
 Cofran, R. L., 2d & Jefferson
 Lindenschmidt, O. & Son, 506 Jackson
 WICHITA—Faries, R. P. Machine Works
 Moore Bros.

KENTUCKY.

BOWLING GREEN—*Bowling Green Machine Co.
 COVINGTON—Covington Arch'l Iron Works
 Germania Supply Co.
 Hollingsworth, W. I.
 *Stewart Iron Works Co.
 HENDERSON—Delvan, Geo. H.
 Holloway, R. H.

LOUISVILLE—Dow Wire & Iron Works
 *Gralinger & Co. (Inc.), Louisville, Ky.
 *Snead Architectural Iron Works, 10th & Hill
 NEWPORT—Buecker, Henry F., 27 W 6th
 OWENSBORO—*Southern Foundry Co.
 Southern Iron Works
 PADUCAH—*Jackson Foundry & Machine Co.
 Johnson Foundry Co.
 Shelton Bros. & Hassman

LOUISIANA.

MONROE—Sanders, Jno. G.
 NEW ORLEANS—Bedell Structural Steel &
 Foundry Co., Magnolia, Erato & Clare
 Bierce, Wm. W. (Ltd.), Heunen bldg
 Mangin, C. A., 621 Bourbon
 MINNEAPOLIS STEEL & MACHIN-
 ery Co., 417 Heunen bldg. (See adv. index,
 end of book)
 Sutton, Jos. & Son, 1153 S Peters
 Swoop, Julian M., 913 Girod
 WINSLOW BROS. COMPANY, Hen-
 nen bldg. (See adv. index, end of book)
 SHREVEPORT—Henderson, W. K. Iron Wks.
 White, Benjamin S.

MAINE.

BANGOR—*Union Iron Works
 HALLOWELL—Fuller's, George, Sons
 PORTLAND—*Fletcher & Crowell
 *Megquier & Jones Co.

MARYLAND.

BALTIMORE—Armstrong & Parker
 *Bartlett, Hayward & Co.
 Carr, Stuart R. & Co., Essex & Montford av
 *Chesapeake Iron Works (Cast, Wrought &
 Ornamental), Severn & Bayard
 *Dietrich Bros., 344 North
 *Deved & Sons (Builders' Castings), 813 S
 Dufur & Co., 311 N Howard
 Krug, G. & Son, 415 W Saratoga
 Lauer & Harper Co. (Inc.), Westport
 Meiser, Herman & Sons, 210 Clay
 *Smyser's, E. G. Sons
 *WINSLOW BROS. COMPANY,
 Equitable bldg. (See adv. index, end of
 book)

MASSACHUSETTS.

BOSTON—Bishop, J. W. Co., 683 Atlantic av
 Boston Bridge Works, 47 Winter
 *Chelmsford Foundry Co., 159 Devonshire

Croft, Jas. T. & Co., 166 Devonshire
 Dinn, P. J. & Co., 278 Dover
 Eastman, Pease & Co., 12 Pearl
 *Estabrook's, R. Sons (Builders' Castings
 Only), 204 W 1st, S. B., Boston Mass.
 Gallagher, D. F. & Co., 277 Commercial
 Gustin, H. E., 136 Dover
 *Ham, L. M. & Co., 152 Portland
HARRIS SAFETY CO., 101 Tre-
mont. (See adv. index, end of book)
 Houdlette, F. A. & Son, 93 Broad
 Krasser, F. & Co., 100 Utica
 *McLauthin, Geo. T. Co., 120 Fulton
 Horss & Whyte Co., 75 Cornhill
 Nelson Bros., 62½ Thayer
 Puritan Iron Works (Ornamental Only), 110
 Portland, Boston, Mass.
 Robbins, A. B., 161 Albany
 *Smith, G. W. & F. Iron Co., 166 Devonshire
 *Smith & Lovett Co., 125 Albany
 CAMBRIDGE—Flynn, Jas., 700 Main
 Hnb Architectural Iron Works Co.
 CLINTON—Clinton Foundry Co.
 EAST EVERETT—New England Structural Co.
 FAIRHAVEN—Fairhaven Iron Foundry Co.
 FITCHBURG—Goodnow, L. H. Foundry Co.
 LOWELL—Knapp, Arthur P.
 Nichols, Albert F.
 LYNN—*Hayes Foundry Co.
 MIDDLEBORO—Le Baron Foundry Co.
 NORTH ADAMS—*Hunter, Jas. Machine Co.
 PALMER—**WRIGHT WIRE CO.** (See
 adv. below)

PITTSFIELD—*Hubbell, F. W.
 Jones, E. D. & Son Co.
 SOMERVILLE—*Somerville Iron Foundry
 SPRINGFIELD—Hawes & Gray, 137 State
 *Springfield Foundry Co., 95 Liberty
 Springfield Iron Works, 106 Taylor
 WORCESTER—Allen, Dwight P., 518 Main
 Bishop, J. W. Co., 109 Foster
 Dahlberg, O., W. Boylston, Barber's
 French, Richard, 84 Union
NATIONAL MFG. CO., 19 Union.
 (See adv. index, end of book)
 Walls, C. W., 44 La Grange
WRIGHT WIRE CO. (See adv. be-
 low)

MICHIGAN.

BAY CITY—Smalley Bros. & Co., 211 Saginaw
 DETROIT—*AMOS, CHARLES & CO., 94
 W Larned. (See adv. at bottom of page)
 Art Brass & Wire Works, Forest & Ellery,
 Detroit, Mich.
 Barnum, E. T. Wire & Iron Works

WRIGHT WIRE COMPANY

ORNAMENTAL IRON WORK

**ELEVATOR CARS and ENCLOSURES, BANK and OFFICE RAILINGS,
 GRILLES, GATES, WIRE GUARDS, WIRE and METAL LOCKERS, Etc.**

POULTRY NETTING All Meshes and Sizes Wire. Galvanized "Before" and "After" Weaving.
WIRE CLOTH Galvanized and Black, Brass and Copper, Rust Proof.
WIRE Annealed, Bright, Coppered, Tinned, Galvanized, Straightened and Cut and Cold Rolled Flat, Picture Cord.
WIRE ROPE Galvanized Clothes Lines, Conductor Straighteners, Riddles, Coal and Sand Screens. Staples of All Kinds.
WORCESTER, MASS. Palmer, Mass. 184 Michigan St., **Chicago.** 716 Minnesota St., **San Francisco.**



Iron Fence



Elevator Enclosure

**BRASS, IRON and WIRE
 WORK
 STRUCTURAL STEEL
 CHARLES AMOS & CO.
 WIRE AND IRON WORKS
 DETROIT, MICH.**



Fire Doors



Wire Signs for Roofs

WRITE FOR PRICES

SEND FOR CATALOG



ARCHITECTURAL IRON WORK

ORNAMENTAL IRON WORK

IRON STAIRS

ELEVATOR DOORS AND ENCLOSURES

IRON STORE FRONTS

IRON FENCES AND GRILLES

STEEL BEAMS AND COLUMNS

FIRE ESCAPES

JOSEPH HALSTED CO.

TELEPHONE, MONROE 510

Randolph and Elizabeth Streets, CHICAGO

E. R. LANDON IRON ^{AND} WIRE WORKS

MANUFACTURERS OF

IRON FENCES

STAIRS, RAILINGS, DOORS AND SHUTTERS, WINDOW GUARDS,
WIRE WORK, WIRE LOCKERS, ELEVATOR CABS, ELEVA-
TOR ENCLOSURES, LIGHT STRUCTURAL WORK.

FIRE ESCAPES.

Works, Corner Fillmore and Rockwell Streets.

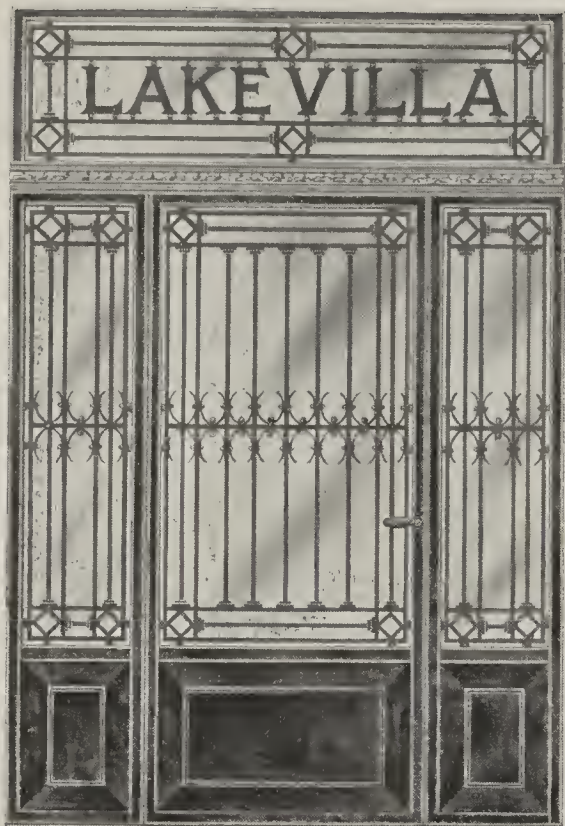
Telephone West 515

Contracting Office, 627 First National Bank Building.

Telephone Central 5154.

Aut. 6133

CHICAGO, ILLINOIS.



UNION FOUNDRY WORKS



Structural and Ornamental Ironwork



LARGE STOCK OF STRUCTURAL STEEL
SHAPES ON HAND

1427 First National Bank Building
CHICAGO, ILLINOIS

BUFFALO WIRE WORKS CO.

Formerly SCHEELER'S SONS.

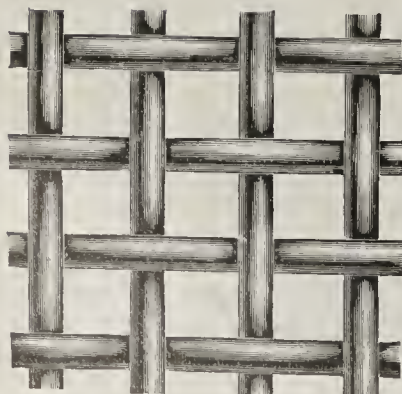
BUFFALO, N. Y.

WIRE CLOTH

— AND —

WIRE GOODS

Elevator Cabs and Enclosures
Railings, Wickets, Grilles, Guards
Panels, Etc.



DESIGNS AND
ESTIMATES FURNISHED.

SEND FOR CATALOG No. 7 G.

BOLLES, J. E. IRON & WIRE

Works, 4th av e Porter. (See adv. below)

*De Croupet Iron Works, 127 Brush

Horn, J. L., 383 Mich. av

Ingalls, Wm. Wire & Iron Works, 59 E Woodbridge

Lewis, Henry B., 45 Jos. Campau av

Phoenix Wire Works

*Robins, Albert & Co., 193 Cass av

***RUSSELL WHEEL & FOUNDRY**
Co. (Cast Iron Columns only. (See adv. index, end of book))

Seiferlein, Jno. C., 316 St. Paul

VULCAN CO. (See adv. index, end of book)

GRAND LEDGE—Streeter, H. R.

GRAND RAPIDS—Butterworth & Lowe, ft of Huron

*Grand Rapids Foundry & Machine Co., 2d av & 10th

Leltelt, Adolph Iron Works, 5 Erie

Michigan Iron & Metal Co.

KALAMAZOO—Clarage, Thos. & Son

*Kalamazoo Foundry & Machine Co.

MUSKEGON—Clover, Chas. S.

*Enterprise Foundry Co.

Rodgers Iron Mfg. Co.

PETOSKEY—*Burnett Foundry & Machine Works (Ltd.)

SAGINAW—Bartlett, A. F. & CO., 930 S Tilden, E S

*Jackson & Church Co.

Koehler Bros.

Mitts & Merrill, 1009 S Tilden, E S

*Wickes Bros., 512 N Tilden, E S

TRAVERSE CITY—Round & Son

WEST BAY CITY—Excelsior Foundry Co.

MINNESOTA.

ALBERT LEA—Veness, J. W.

DULUTH—National Iron Co., 116 S 17th

Thompson & Dunlop, 226 W Michigan

LITTLE FALLS—Denis, John

MANKATO—Mankato Mfg. Co.

MINNEAPOLIS—Americau Bridge Co., 2d & 6th av, S E

*Crowu Iron Works Co., 115 2d, S E

De Shaw, Wm. D., 3007 Minnehaha av

Diamond Iron Works, 1800 N 1st

*Flour City Ornamental Iron Works, 27th av

Menzel & Jeffery, 900 S 4th & 27th, S

***MINNEAPOLIS STEEL & MACHINERY** Co. (Cast, Structural & Ornamental). (See adv. index, end of book)

*Northwestern Foundry, 312 10th av, S

*Standard Foundry & Machine Shop, 1032 3d av, N E

Twin City Ornamental Iron, Wire & Brass Works, 407 6th av, S

Union Iron Works, Main e 2d av, S E

***WINSLOW BROS. COMPANY,** Andrus bldg. (See adv. index, end of book)

NEW PRAGUE—New Prague Foundry Co.

ST. CLOUD—St. Cloud Iron Works

ST. PAUL—Buckeye Foundry Co., Water nr

Herzog Iron Works, E 7th e Earl State

Lee & Hoff Mfg. Co., Fillmore av e Living-

Perkins Mfg. Co., 1121 E 7th stone av

Roberts-Goss Co., 4th e Pine

***ST. PAUL FOUNDRY CO.** (Cast Structural & Ornamental), Como av & Top-

ping. (See adv. index, end of book)

*South Park Foundry & Machine Co., 11 Gillan blk

Twin City Fence & Wire Works, 223 E 6th

Valley Iron Works, 81 W St. Paul Levee E

WINONA—Tarras, L. C. & Co.

MISSISSIPPI.

GREENVILLE—Wall, Jas. Foundry & Machine Shop

JACKSON—*Mississippi Foundry & Machine Co.

MERIDIAN—Martin Machine Works

NATCHEZ—Shaw, C. P.

VICKSBURG—Foley, P. J. & Son

MISSOURI.

BROOKFIELD—Mettler, L. M.

CAMERON—Dildine Bridge & Construction Co.

CARTHAGE—*Carthage Fdry & Machine Works

CHILLICOTHE—Way, Frank Foundry & Machine Co.

JOPLIN—Joplin Machine Works

KANSAS CITY—Kansas City Wire & Iron Works, 1428 Oak

***MINNEAPOLIS STEEL & MACHINERY** Co., 1302 W 11th. (See adv. index, end of book)

Standard Shutter & Iron Works, 1935 Central

NEOSHO—Rogers, J. A.

POPLAR BLUFF—Poplar Bluff Foundry & Machine Works

ST. JOSEPH—*Ambrose Foundry & Machine Co., 8th & Monterey

*Berry Foundry & Mfg. Co., 5th e Walnut

Crowthers & Rogers Mfg. Co., 8th & Mes-

Garvey & Co., 600 S 7th sanie

Jamieson & Combe Iron Works, 113 Francis

ST. LOUIS—*American Car & Foundry Co. (Castings Only)

Banner Iron Works, Koken bldg

*Christopher & Simpson Arch'l Iron & Foundry Co., 811 Park av

*Koken Iron Works, Old Manchester rd

Lasar-Letzig Mfg. Co., 1313 N 16th

Ludlow-Saylor Wire Co., 120 S 4th

Mesker & Bro., 423 S 6th

Schurk Iron Works, 323 S 4th

St. Louis Architectural Iron Co., DeKalh & Lesperance

St. Louis Wire & Iron Co., 518 to 522 Chouteau av

*South St. Louis Foundry, 7514 S B'way

Spuck Iron & Foundry Co., Branch & 14th

Stupp Bros., Bridge & Iron Co., Weber rd

*Union Iron & Foundry Co., 1458 S 2d

Victor Iron Works, 2417 S 7th

*Western Foundry & Sash Weight Co. (Castings), 159 Miller

***WINSLOW BROS. COMPANY,** Century bldg. (See adv. index, end of book)**MONTANA.**

ANACONDA—Anaconda Copper Mining Co.

BUTTE—Montana Iron Works.

*Western Iron Works.

GREAT FALLS—Great Falls Iron Works

HELENA—Caird & Hawksworth

NEBRASKA.

BEATRICE—Beatrice Iron Works

FREMONT—*Fremont Foundry & Machine Co.

LINCOLN—Hedges, C. E.

Smith, R. L., Machine Works.

OMAHA—Champion Iron & Wire Works, 617 S 16th

***MINNEAPOLIS STEEL & MACHINERY** Co., 1212 Harney (See adv. index, end of book)

*Paxton & Vierling Iron Works, S 17th & U

Wearne Bros., 1409 Jackson

YORK—*York Foundry & Machine Works

NEW HAMPSHIRE.

CONCORD—*Concord Foundry & Machine

MANCHESTER—*Hutchinson, C. H. Foundry

NEW JERSEY.

BAYONNE—Clark Iron Foundry

CAMDEN—Camden Ornamental Metal Works

Frاند, M. J. & Co.

Lancaster Machue & Structural Works.

Merritt & Co. Works, Lancaster, Pa.

EAST ORANGE—Collinson, Joshua, 4 N Wafuut

ELIZABETH—Moore, S. L. & Sons Co.

HOBOKEN—*Fagan Iron Works, 309 Jefferson

Hamill, Alex. (Est. of)

JERSEY CITY—*Fagan Iron Works, 14th st.

Feudtner, Jacob & Co., 383 7th

*Jonson's, Julius, Sons, 63 Hudson.

***SNEAD & CO. IRON WORKS,** ft. of Pine, (See adv index, end of book)

MADISON—Force, Chas. & Son

NEWARK—Burns, Thomas & Son, 201 Commerce

Frank, John, 21 Prospect

Goeller Iron Works

*Hay Foundry & Iron Works, Plumb Point la

Hedden Iron Cons. Co., 22 Clinton

*Metcalf, Jas. & Co. (Castings Only), 126 Polk

Smith's Albert Sons, 72 N. J. R. R. av.

Solbrig, Fred, 118 Bergen

NEW BRUNSWICK—*Empire Foundry Co.

ORANGE—Bulkley, H. W., 166 Alden

Orange Iron Works, Alden e High

PATERSON—Bogert-Carlough Co.

*Eastwood, Benj. Co. (Builders' Castings Only)

Lendrim, H. C., 82 Clay

PLAINFIELD—Kirk, William T.

TRENTON—Baker, W. H., Mulberry st

*MacKenzie's, Duncan Sons Co.

N. J. Steel & Iron Co., ft. S Warren

WEST HOBOKEN—Courtman, Walter F.

NEW MEXICO.

ALBUQUERQUE—*Albuquerque Foundry & Machine Co.

LAS VEGAS—Adlon, J. C.

NEW YORK.

ALBANY—Campbell, Harry E. Co.

Frey, Hy., 502 2d

*McKinney, J. & Son

AUBURN—Crane, W. W.

BINGHAMTON—Shapley & Wells, 118 Washington

BROOKLYN—(See New York City, Borough of Brooklyn)

BUFFALO—Buffalo Structural Steel Co., 166 Dart

***BUFFALO WIRE WORKS CO., 316** Terrace. (See adv. index, end of book)

*Erust's, Charles F. Sons, 65 Lathrop

Feine, August, 152 Terrace

*Ginther's, J. Sons, 419 B'way

Harrower, H. C. Co., 35 Court

Jones Iron Works, 308 Terrace

*Kellogg Iron Works, Mutual Life bldg

*Standard Foundry Co., 29 Mississippi

Wurtz & Son, Structural Iron Contr.

COHOES—Cohoes Iron Foundry & Machine Co.

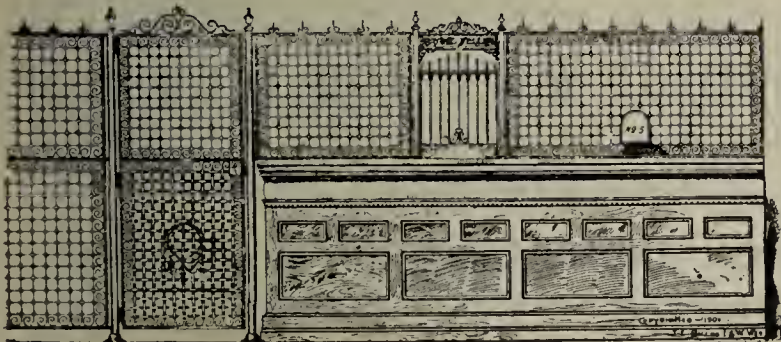
GOWANDA—*Gowanda Agricultural Works (Castings Only)

GROTON—*American Road Roller Co.

JAMESTOWN—*Eagle Foundry & Machine Co.

LONG ISLAND CITY—(See New York City, Borough of Queens)

J. E. BOLLES IRON AND WIRE WORKS



BANK AND OFFICE RAILINGS,
GRILLES, PARTITIONS, IRON BALCONIES
FIRE ESCAPES, ENTRANCE GATES
ELEVATOR ENCLOSURES AND CABS
PLAIN AND ORNAMENTAL IRON WORK
FOR BUILDINGS

DETROIT, MICH., U. S. A.

NEW YORK CITY. Borough of Brooklyn.

BROOKLYN—AJAX IRON & WIRE CO., 75 York. (See adv. below)

Auer, John, Jr., 199 Middleton
Berger Iron Works, 267 45th
Brooklyn Architectural Iron Works, 97 22d
Brown, Chas. O., 200 B'wick av
Child, W. C. W., 355 Kingsland av
Clarke & Stowe, 229 Kent
Dannemann, A. M., 126 Central av
Dugro, Philip & Son, 134 Ten Eyck
Duvinage, Pierre & Co., 500 Leonard
*Eagle Iron Works (Inc.), 850 DeKalb av
Evans, F. H., 600 Kent av
Felgenhauer, E. & Sons, 753 Lex av
Flick, Wm. J., 397 3d av
Fleugel, Anton, 219 Cook
Gordon, A. & Bro., 1046 Myrtle av
Gratz, George, Jr., 1141 DeKalb av
Green, B. G., 207 Pacific
Grosback, Wm. & Co., 37 Maspeth av
Hassler, Fred'k, 2 Sullivan
*Hecla Iron Works, 118 N 11th
Hoff, Herman J., 556 Hamilton av
McManus, James W., 98 Flaherty av
McMurray, Robert T. & Bro., 365 Harman
Milliken Bros. ft Clinton

Mullon Bros., 315 S 3d
Pirkl, John, Iron Works, 240 N 10th
Poppke & Son, 805 Lexington av
*Reliance Arch'l Iron Works, 253 Monitor
Schwenn, Wm., 850 Lexington av
Schubert's Ornamental Iron Works, 62 N 1st
Silk, Thomas, 68 Summit
*Simpson Foundry Co. (of all kinds), 26
Rodney
Whale, Creek Iron Works, Calyer & Moultrie
Zetler, Eugene, 568 Kent av

Boroughs of Manhattan & Bronx

NEW YORK—Adelstine & Avrutine, 82 Rutgers
Ahr, Anton, 701 Elton av
Ahr, Henry, 702 E. 148th
Alexander, W. J. & C. Co., 11 Thompson
*American Car & Foundry Co., 25 Broad
(Castings Only)
ANCHOR POST IRON WORKS, 41
Park Row. (See adv. index, end of book)
Bagge, Ernest, 155 E. 128th
Bartsch, Chas., 792 Amsterdam av
Bataille, Achille & Co., 587 Hudson
Becker, Hans, 318 E. 48th
***BETHLEHEM FOUNDRY & MA-**
chine Co. (Cast & Wrought), 149 B'way.
(See adv. index, end of book)
Borkstrom, Oscar G., 453 E. 148th.
Bowes, Jno. J., 227 W. 29th

Boyle & Lawton, 518 W. 22d
Brady & Hauptmann, 406 E 104th
Bronx Iron Works, 331 Brook av.
*Brown-Ketcham Iron Works (of Indianapo-
lis, Ind.), 1170 B'way
Burkhardt, John, 519 W. 45th.
Busse, Armand (Manhattan Iron Works), 302
Central Iron Works, 420 E 48th E 98th
Child, W. C. W., 1 Madison av
Clark, Jos., 349 W. 48th
Clausen & Hoffmeyer, 508 E. 74th
Cook, Francis, 407 W. 36th
Cooper Iron Works (Jno. Cooper, Prop.), 1
Madison av
*Cornell, J. B. & J. M. Co., 26th & 11th av.
Crosman, Geo. J., Co., 607 E. 18th
Dahm, Henry, 517 W. 45th
Dimond, J. R., 128 W. 33d
Dudley, Jas. H., 874 Westchester av.
Eagle Iron Works, 403 E 117th
Empire Wrought Iron Works, 131 E 18th
ESTEY WIRE WORKS CO., 59
Fulton. (See adv. at bottom of page)
Fotheringham, Geo. & Son, 350 W 18th
Gehrich, Herman, 69 Rutgers Slip
Gersmann, Rud., 21 E. 137th
Glen Mfg. Co., 181 B'way
Gordon, A. & Bro., 188 Monroe
Graf Bros., 279 Avenue B
Grossman Bros. & Rosenbaum, 540 W. 58th

AJAX IRON & WIRE CO. (INCORPORATED)

Manufacturers of

Iron Railing,
Wire Railing,
Bank and Office Railing,
Elevator Enclosures,
Window Guards, Grilles, Gates,
Fire Escapes, Shutters,
Stall Guards and Stable Fixtures,
Brass Grille Work, etc.

Iron and Wire Work,

OFFICE AND WORKS,

75 & 77 YORK STREET,

TELEPHONE 2023 MAIN.

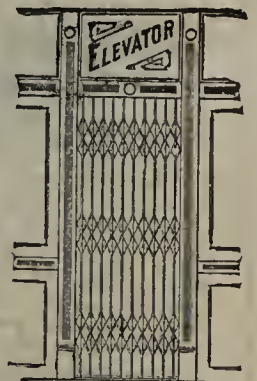
BROOKLYN, N. Y.



THE WM. R. PITT Composite Iron Works, 136-138 W. 24th St., NEW YORK.

Manufacturers of the "Pitt," "Bostwick," "Composite"
and Novelty Patent Folding Gates and Guards in Brass,

Bronze, Steel and Iron, for Store Fronts, Vestibules, Elevator Enclosures and
Cars, Bank Vaults, Windows, Bridges, etc. Also Railings, Driveway and Entrance
Gates, Window Grilles, Iron and Glass and Vestibule and Storm Doors, Marquees, Stairs, Special
Hardware, Lanterns and all Artistic Wrought Work. ESTIMATES FURNISHED.



Estey Wire Works Co.,

59 FULTON ST., N. Y.

MANUFACTURERS OF

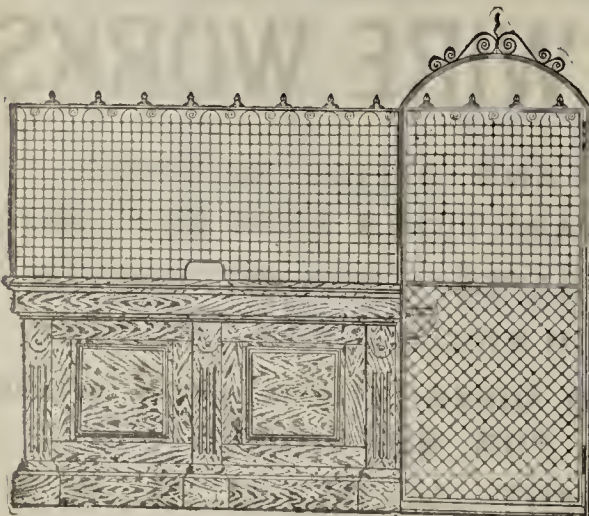
Ornamental Wire and Iron Work

BANK AND OFFICE RAILINGS,
WIRE PARTITIONS, ETC.

WIRE, IRON AND BRASS WORK OF ALL KINDS.

WIRE CLOTH FOR ALL
PURPOSES

SEND FOR CATALOGUES





Wrought Iron Entrance Gates and Lamps

Residence of Edwin Hawley, Esq., Babylon L. I.

EXECUTED BY

WM. H. JACKSON COMPANY

29 EAST 17th STREET (Union Square) NEW YORK

NEW YORK CITY

ALSO

163 MICHIGAN AVENUE

CHICAGO



ARTISANS IN ALL METALS



ORNAMENTAL IRON and BRONZE

STAIRS

ELEVATOR ENCLOSURES

RAILINGS, GATES

COUNTER SCREENS

MEMORIAL TABLETS

MAUSOLEUM WORK

LAMP STANDARDS, ETC.

THE WINSLOW BROS. COMPANY

CHICAGO

NEW YORK

Main Office and Works, West Harrison St., 46th and 47th Aves., Chicago

160 Fifth Avenue, NEW YORK

812 Equitable Bldg., BALTIMORE

Hennen Bldg., NEW ORLEANS

1102 People's Savings Bank Bldg., PITTSBURG

514 Union Trust Building, LOS ANGELES, CAL.

THE SNEAD & COMPANY

IRON WORKS (INCORPORATED) . . .

MAKERS OF THE
GREEN-SNEAD SYSTEM
OF METAL BOOKSTACKS
—AND—
SHELVING FOR LIBRARIES

**STRUCTURAL AND ORNAMENTAL IRON
AND BRONZE WORK FOR BUILDINGS**

| | | |
|------------------|--------------------------|----------|
| STAIRWAYS | RAILWAYS | MARQUEES |
| ELEVATOR GRILLES | WINDOW GUARDS | |
| STORE FRONTS | LAMPS | GIRDERS |
| BEAMS | COLUMNS | TRUSSES |
| LINTELS | STRUCTURAL STEEL DESIGNS | |

OFFICE AND WORKS

FOOT OF PINE STREET, JERSEY CITY, N. J.

Near Pacific Ave. Station, Jersey Central Railroad, 16 minutes from Liberty St., N. Y.

Greenberg & Bartlett, 136 Liberty
Hafers, Chris Iron Works, 407 W. 37th
Hall, Charles W., 1123 B'way
Hanauer, John, 1675 3d av
Happel, Adam, 1801 1st av
Harlander & Edelmann, 464 10th av
HARRIS SAFETY CO., 39 E. 20th.
(See adv. index, end of book)
Hay Foundry & Iron Works, 141 B'way
Hinkle Iron Co., 534 W 56th
Hoehn, Wm., 312 W 16th
Holl, John, 1971 1st av
Holland, D. Iron Co., 422 E 62d
Howard & Morse, 45 Fulton
Howell, Henry M. & Co., 369 W 11th
Hudson River Iron & Bronze Works, 577 9th av

JACKSON, WM. H. COMPANY, 29
E 17th (Union sq.). (See adv. index, end of book)
Johnson Bros., 89 Elizabeth
Jordis, John J., 430 E 110th
Koehn, Alfred, 157 W 29th
Lange & Co., 423 E 22d
Lamore, Jno. E., 407 E 91st
Lawyer & Spence, 1959 Park av
Levine & Posner, 144 Goerck
Liberty Iron Works, 462 10th av
Lieberman & Sanford, 603 W 36th
Lipper, Nathan, 152 Chrystie
Lobel-Andrews Co., 531 W 55th
*McDougall & Potter Co., 606 W 55th
McIntosh, Alex., 21 E 20th
McKay, Thos., 460 E 10th
Manhattan Iron Works, 302 E 98th
Milliken Bros., 11 B'way
Mott, J. L. Iron Works, 118 5th av
Mugler's Iron Works Co., 1133 E 136th
*Murray Hill Iron Works Co., 212 E 37th
New York Bridle Iron Co., ft E 132d
New York Ornamental Iron Works, 315 E 22d
Nuhn, C., 8 2d
Palmer, B., 231 W 50th
Pearson, S. P. & Co., 74 Monroe
Perelson, Lazarus, 202 Centre
Pfeifer Bros., 473 G'wich
Pierson & Co., 29 B'way
PITT, WM. R. COMPOSITE IRON
Works, 136-138 W 24th. (See adv. on preceding page)

Pollock, Edmond L., 2342 Old B'way
Post & McCord (Inc.), Fuller bldg
Prince Iron Works, 555 W 33d
*Radley, John J. & Co., 624 E 19th
Rahtz, Henry, 20 E 138th
Rapp Iron Works, 301 11th av
Ravitch Bros., 51 Mangin
Reilly, Daniel E., 360 E 76th
Reissler & Kline, S19 E 9th
Reynolds, E. P., 652 E 12th
Richey, Browne & Donald, 1 Madison av
Rocker Bros., 330 W 26th
Rueth, Jos., 462 10th av

Rubling, Fredk', 319 E 22d
Sexauer & Temke, 401 E 91st
*Shriver, T. & Co., 333 E 56th (Castings Only)
Simons & Moersfelder, 145 Ave D
Soennecker, Gustav, 1317 3d av
Starr Iron Works, 4077 Park av
Staudinger, Wm., 631 E 9th
Steinel, Bruno, 142 W 24th
Stikeman, Geo. Metal Works, 38 Park row
*Storm, Walter H. & Co., 39 Cortlandt
Tandy, Jno. J., 131 E 18th
Taylor, Jas., 223 Mercer
Thompson, Hervey, 176 E 119th
TYLER, W. S. CO. (of Cleveland,
O.), 11 B'way. (See adv. index, end of book)
Uris, Harris, 525 W 24th
Vreeland, G. A., 229 W 36th
Vulcan Iron Works, 45 B'way
Wagners, Wm., 88 Cypress av
Westervelt, A. B. & W. T., 102 Chambers
Westing Theo., 449 W 41st
Williams, John, 556 W 27th
Wills & Marvin, 1170 B'way, New York
***WINSLOW BROS. COMPANY, 160**
5th av. (See adv. index, end of book)
Zimmerman, L. J., 513 E 148th, State

Borough of Queens.

LONG ISLAND CITY—Hawkins Iron Construc-
tion Co., 66 Fulton av
MASPETH—(New York City)—*Richey, Browne
& Donald

(END OF NEW YORK CITY)

POUGHKEEPSIE — *Poughkeepsie Foundry &
Machine Co.
ROCHESTER—*Heughes, F. L., 190 South av
Kohlmetz, Chas. E. & H. L., 178 N Water
*Union Foundry & Machine Co., University
White Wire Works Co., av c Barnum
SYRACUSE—Dunning, W. D., 329 W Water
*Smith & Caffrey, Props. (Phoenix-Porter
Foundry), 1421 N Salina
Shoeneck Co., 12 W Willow
TROY—*Mahony Mfg. Co., 5th av, cor Liberty
*West Side Structural Co. (Castings &
Steel Structural & Ornamental Iron
Works), Watervliet
UTICA—Jones, Willis H., 70 Hotel
Palmer, C. F.
Steinbrecher, Geo., 183 Columbia
WATERTOWN—Wilson, J. C., 29 Arsenal
YONKERS—Morris, Thos.

NORTH CAROLINA.

ASHEVILLE—*Asheville Supply & Foundry Co.
CHARLOTTE—*Mecklenberg Iron Works
GREENSBORO—Glascock, G. T. & Sons
Sergeant Mfg. Co.

NORTH DAKOTA.

FARGO—Fargo Iron & Metal Co.

OHIO.

AKRON—*Adamson, Alex.
Ornamental Iron Works Co.
*Taplin, Rice & Co.
ASHTABULA—Barber Mfg. Co.
BELLEFONTAINE—Bellefontaine Bridge &
Iron Co.
CANTON—CANTON FOUNDRY & MA-
chine Co. (Castings, Columns, Sills, Base
Plates, etc.) (See adv. index, end of book)
COLUMBIA IRON & WIRE WKS.
Co. (See adv. on following page)
CINCINNATI—Brackett Bridge Co., 84 Atlas
Bank bldg
Cincinnati Iron Fence Co., 3300 Spring
Grove av
CINCINNATI MFG. CO. (Ornamen-
tal), 1243 W 6th. (See adv. index, end of
book)
Grimm, Ig. & Co., 153 E McMicken
KAMMAN, WALTER, Front &
Lawrence. (See adv. index, end of book)
Lang, Wm. & Sons, 108 E 12th
Nimmo Fence Co., 324 E 4th
Potthoff, W. F. Co., Front & Harriet
Schoenberg, Fred., W 8th nr Evans
*Schreiber, L. & Sons Co., 8th & Eggleston
Schumacher, Jno. H., 1446 Main av
*Union Iron Works Co., Colerain av c Sassa-
fras
Ward, Wm. E. & Co., 1347 Central av
CLEVELAND—Anchor Fence & Mfg. Co.
*Bowler Foundry Co., 14 Winter
***BROOKS, T. H. & CO. (See adv.**
on following page)
*City Foundry Co. (Castings)
East End Iron Wire & Fence Works
FOREST CITY STEEL & IRON
Co., 110th nr Detroit av (See adv. index,
end of book)
*Madison Ave. Foundry Co. (All kinds of
Builders' Castings), 155 E Madison av,
Cleveland
National Iron & Wire Co., 971 Hamilton
Sheer, Geo. D. Iron Works, 1821 Pearl
Standard Wire & Iron Co., Leonard &
Hume
TYLER, W. S. CO. (See adv. in-
dex, end of book)
*Van Dorn Iron Works Co., 2685 E 79th
*Variety Iron Works Co., Case av. c Ham-
ilton
COLUMBUS—Columbus Elevator & Iron Co.
(W. V. Moller, Prop.)
Columbus Elevator & Machine Co., Curtis &
Jefferson avs
Columbus Structural Steel Co.

The Ohio Structural Iron Co.

12 WARREN ST.

SANDUSKY, OHIO

Manufacturers of

Ornamental and Light Structural Iron Work

*Including Jail Cells, Fire Escapes, Fencing, Lawn Seats, Iron Stairs, Cemetery Arches, Entrance Gates, Bal-
conies, Window Guards, Wire Work, Grilles, Stable Fixtures, Vault Doors and Gates, Mausoleum Doors and
Gates, Iron and Steel Shutters, Grates, Iron and Steel Doors, Brackets, Railings, Hitching Posts, Hay Racks,
Tree Guards, Ice Bars, Ice Runs.*



COLUMBUS WIRE AND IRON WORKS,

COLUMBUS, OHIO.

WINDOW GUARDS, GRILLES,

Elevator Enclosures, Bank and Office Railings, Etc.

COLUMBUS WIRE & IRON WKS.

Co. (See adv. on preceding page)

*Hayden, P. Saddlery Hardware Co.

Krumm, M. & D.

*McDonald Bros. (Cast Iron), 108 Liberty

Morris, C. E. Co., Curtis & Jefferson avs

Morse, C. E. Co.

Nickel, J. A., 310 Dublin av

DAYTON—American Fence & Forge Co.

CITY FORGE & IRON WORKS

(Andrew Plocher, Prop.) (See adv. below)

*Ohio Foundry Co.

FINDLAY—McArthur Geo.

FREMONT—June, D. & Co.

*Lehr Agricultural Co.

HAMILTON—Meyers, Fred'k J. Mfg. Co.

KENTON—***CHAMPION IRON CO.** (See

adv. index, end of book)

LIMA—East Iron & Machine Co.

MANSFIELD—Schnitzer, F. F. & Son

MARIETTA—*Pattin Bros. Co. (Castings, etc.)

MIDDLETOWN—Shartle & Bevis

SANDUSKY—*Klotz Machine Co.

OHIO STRUCTURAL IRON CO.

(See adv. on preceding page)

SPRINGFIELD—*Bayley, Wm. Co.

*Hennesey Foundry Co.

Peet & Shuster Co., 28 S Fountain av

TOLEDO—DONOVAN WIRE & IRON CO.

(See adv. index, end of book)

HEARTLEY MACHINE VARIETY

Iron & Tool Works. (See adv. index, end of book)

*Toledo Foundry & Machine Co.

Toledo Wire & Iron Works

WILMINGTON—Champion Bridge Co.

YOUNGSTOWN—Mahoning Wire & Iron Works

Youngstown Wire & Iron Co.

ZANESVILLE—Union Machine Works

OKLAHOMA TERRITORY.

GUTHRIE—Oklahoma Iron Works Co.

OKLAHOMA—Oklahoma City Foundry & Iron

Works

OREGON.

ALBANY—*Albany Iron Works

EUGENE—Frazer, G. N.

PORTLAND—*Heintz, A. R. & Co. (Building

Fronts), Burnside Bridge

*Honeyman, J. & Co., c Front & Columbia

Pacific Bridge Co., end Burnside Bridge

Phoenix Iron Works, E Water c E Madison

*Portland Iron Works, 495 Northrup

Smith & Watson Iron Works, ft Hall

PENNSYLVANIA.

ALLEGHENY—Albree, Chester B., 1115 Market

Baker Mfg. Co., c Allegheny & South avs.

Hanny, Chas. G. & Co., 856 North av

RIESECK, P., Allegheny av &

Rebecca. (See adv. on following page)

*Rosedale Foundry & Machine Co., s Wash-

ington & Preble avs

Yant, N. D., 26 Beaver av

ALLENTOWN—*Hanlon, John J.

BLOOMSBURG—*Harman & Hassert

BRADFORD—*Caldwell, E. R. & Co.

BRIDGEPORT—Bridgeport Wire & Iron Works

CATASAUQUA—*Davis & Thomas Co. (Build-

ers' Castings Only)

DANVILLE—*Danville Foundry & Machine Co.

DU BOIS—*Du Bois Iron Works

EASTON—*Easton Foundry & Machine Co.

(Builders' Castings, etc.)

ELLWOOD CITY—Glen Mfg. Co.

ERIE—*Ball Engine Co.

GREENSBURG—*Greensburg Foundry & Ma-

chine Co.

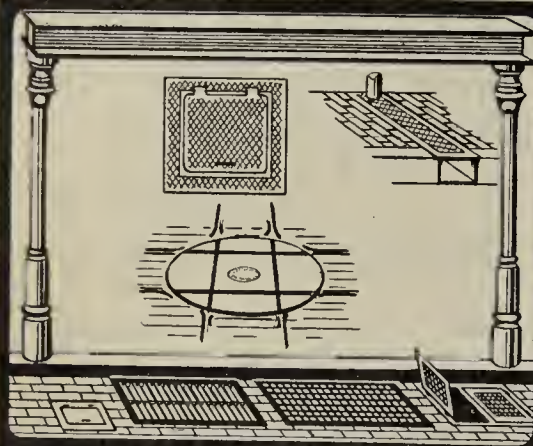
HOLLIDAYSBURG—Curran Bros. (Iron Fences,

etc.)

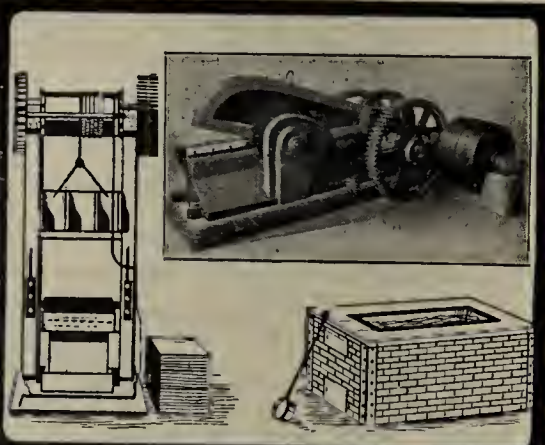
LANCASTER—Lancaster Machine & Structural

Works (of Camden, N. J.)

Rote, A. B. & Co.



**BEAMS, IRON COLUMNS, SIDE
WALK-LIGHTS, CAST CON-
DUCTOR CONNECTIONS,
BOOTS & GUTTER BOXES.
COMPLETE PLANT FOR METAL
CEILINGS, CONDUCTOR PIPE, EAVE
TROUGHS, ETC. ALLIGATOR
SHEARS AND TURN TABLES.**



THE CANTON-FOUNDRY-&MACHINE-CO. CANTON, O. U.S.A.

ARCHITECTURAL IRON AND WIRE WORK FOR BUILDINGS

ELEVATOR CABS AND CARS
ELEVATOR ENCLOSURES
METALLIC LOCKERS
WINDOW GUARDS

FIRE ESCAPES
IRON STAIRS
WIRE WORK
BANK AND OFFICE RAILINGS

TRUCKS (Box and Warehouse)

CITY FORGE AND IRON WORKS

ANDREW PLOCHER, PROP.

DAYTON, O.

STRUCTURAL AND ORNAMENTAL IRON WORK.



T.H. BROOKS & CO. CLEVELAND, O.

FLOOR & SIDEWALK LIGHTS.
OF EVERY DESCRIPTION.
SEND FOR CATALOGUE.

LARGE TONNAGE STRUCTURAL MATERIAL IN STOCK.

THE CINCINNATI MFG. CO.

1243 TO 1249 W. SIXTH STREET

TELEPHONES: { WEST 570
WEST 1821

CINCINNATI, O.

60,000 SQ. FEET FLOOR SPAN
WELL EQUIPPED

BANK and OFFICE
RAILINGS.

ELEVATOR
ENCLOSURES.

ELEVATOR CARS.

BRONZE DOORS.

GRILLES.

WICKETS.

BRASS and BRONZE
CASTINGS.

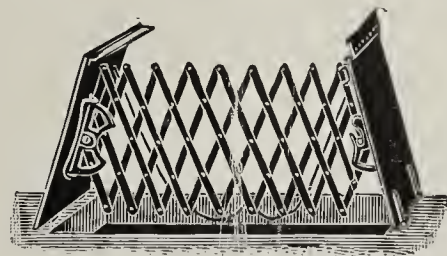


POLISHED BRASS SAFETY DEPOSIT RAILING, 5TH NATIONAL BANK, CINCINNATI

ORNAMENTAL IRON, BRASS AND BRONZE

SOLE MANUFACTURERS OF THE

AUTOGATE CELLAR DOOR GUARDS



AUTOGATE, COLLAPSED

The only improved device for the purpose of protecting cellar, elevator or coal chute openings on sidewalks.

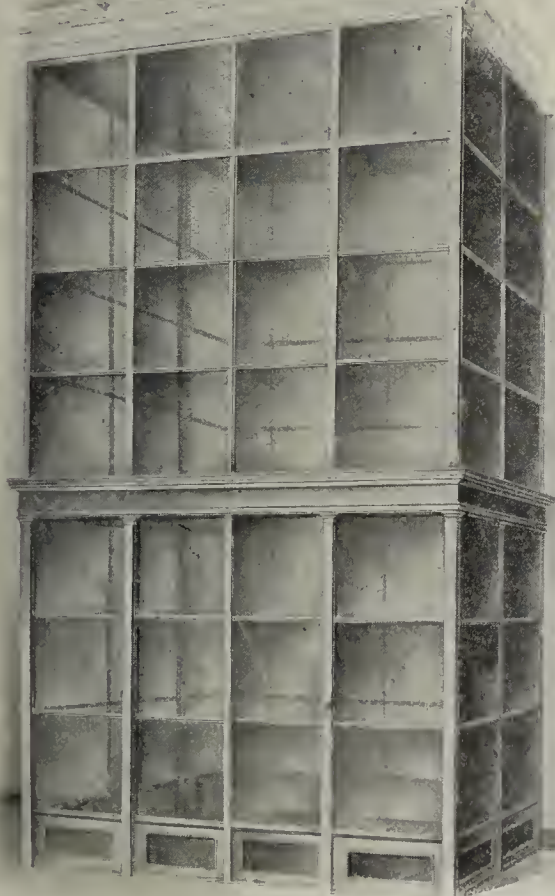
When out of use it folds to leaf of cellar door and is out of the way.

PATENTED.

AGENTS WANTED.

WRITE

THE CINCINNATI MFG. CO.



POLISHED WIRE GLASS ENCLOSURE No. 775

WALTER KAMMAN,

Front and Lawrence Sts., CINCINNATI, OHIO.

Designer and Manufacturer of

ARCHITECTURAL AND ORNAMENTAL
Iron, Brass & Wire Work

Elevator Cabs and Enclosures

Bank and Office Railings

Window Guards, Fire Escapes

Stairs, Railings, Fencing

Stable Fittings, Sidewalk Lights

Cellar Doors, Gates, Grilles, Etc.

**Brass Work for Theatres and Railroad Stations, as Ticket Window
Guards and Grilles, Balcony, Box and Gallery Railings.**

PITTSBURGH IRON AND WIRE WORKS

ESTABLISHED 1842

TAYLOR & DEAN

Manufacturers of

Ornamental Iron and Wire Work

ARTISTIC GRILL WORK IN IRON AND BRASS

Fencing, Cresting, Iron Stairs, Iron Beds, Stable Fittings, Iron Shutters, and Cellar Doors.
Elevator Enclosures. All kinds of Wire Cloth. Metallic Lockers. Automatic Fire Extinguishers.

FIRE ESCAPES

FIRE PROOF PORCHES

FACTORIES: { 201 TO 205 MARKET ST.
2418 TO 2426 PENN AVE.

GENERAL OFFICES: MARKET ST.

PITTSBURGH, PA.

WM. F. REMPPIS, Pres.

FRANK B. ROYER, V.-Pres.

DANIEL F. YOST, Sec. & Treas.

THE WM. F. REMPPIS COMPANY,

Manufacturers of

ARCHITECTURAL AND ORNAMENTAL
WROUGHT AND CAST IRON WORK.

Main Office and Works, **READING, PA.**

PHILADELPHIA OFFICE, 1506 Sansom Street.



LEBANON—*Wiemer Machine Works Co.
McKEESPORT—*Monongahela & Yough Foundry Co.
MAUCH CHUNK—Stroh, Wm. H. & Son.
NEWSIDE—Peter, F. N. & Bro.
PHILADELPHIA—*Adams Foundry Co., 960 N 9th

*Baizley, Jno., Iron Works, 514 S Del av
Bancroft, Chas. P., 1109 Locust
Barnes, Winfield S. & Co., Witherspoon bldg.
*Belmont Iron Works, 22d & Wash'n av
*Biggin, C. P. Co., 1829 Harlan
Clopp, Geo. B., 3717 Filbert
*Coyle, H. B., Iron Works, 622 Filbert
*Creswell, Sam'l J., Iron W'ks, 23d & Cherry
DARBY, EDW. & SONS CO., 239
Arch. (See adv. index, end of book)
*Hoag, R. C. & Co., 1136 Catharine
Horrocks Iron Works, 234 N Broad
Jones, J. C., 1215 Filbert
Keystone Structural Co., Harrison bldg
MERRITT & CO., 1024 Ridge av.
(See adv. index, end of book)
Peters, Jas. & Son, 1934 N Front
Pettit, David, 925 Chestnut
REMPPI, WM. F. CO., 1506 Sansom.
(See adv. index, end of book)
Richmond & Co., 1908 Market
*Stewart & Stevens Iron Works, 9th & Montgomery av
Sutton, W. A. & Co., 2313 N 8th
*Thompson, J. & Co., Van Horn & Sophia
Wark, W. B. & Co., 16th & Chestnut
Wayne Iron Works (Inc.), Arcade bldg
PITTSBURG—Kratzer, W. N. & Co., 3218 Smallman

*Marshall Foundry (Builders' Castings), 28th & R R
MINNEAPOLIS STEEL & MACHINERY CO., 1007 Bessemer bldg.
(See adv. index, end of book)
*Phoenix Steel Co. (Inc.), Putnam & P. R. R.

*Riter-Conley Mfg. Co., 55 Water
***SCAIFE, WM. B. & SONS CO., 221**
1st av. (See adv. index, end of book)
TAYLOR & DEAN, 205 Market.
(See adv. index, end of book)
TYLER, W. S. CO., Bessemer bldg.
(See adv. index, end of book)
Vilsack, Martin Co. (Ltd.), 3222 Penn av
Watt Mfg. Co., 105 Water
***WINSLOW BROS. COMPANY.**
People's National Bank bldg. (See adv. index, end of book)

Womersley Bros., 6307 Broad
POTTSTOWN—Weller, M. D.
READING—Kiefer, W. L., 233 S 8th
*Johnson Foundry & Machine Co., 8th cor Chestnut

*Reading Foundry Co., 536 Penn
Reading Scale & Machine Co. (Ltd.)
REMPPI, WM. F. CO. (Plain & Ornamental). (See adv. index, end of book)
Spader, Paul R. & Co.
ROYERSFORD—Keystone Structural Co.
SCRANTON—*Finch Mfg. Co.
Scranton Iron Fence & Mfg. Co.
SOUTH BETHLEHEM—***BETHLEHEM**
Foundry & Machine Co. (Cast & Wrought), Front. (See adv. index, end of book)
TEMPLE—Temple Ornamental & Structural Iron Works Co.
WAYNESBORO—Smith, G. W. Fence & Iron
WILKES-BARRE—Eagle Iron Works Co.
*Vulcan Iron Works
Wilkes-Barre Iron Mfg. Co.
YORK—*Smyser's, E. G. Sons

RHODE ISLAND.

NEWPORT—*Newport Foundry & Machine Co.
PAWTUCKET—White, J. S. Co.
PROVIDENCE—*Builders' Iron Foundry (Cast & Wrought), 22 Coddington
*Carpenter, A. & Sons Foundry Co., 272 W
*Colvin Foundry Co., 191 Globe
Commercial Iron Works (Inc.)
Providence Steel & Iron Co.
Tower, Jas. H., 48 Borden

SOUTH CAROLINA.

CHARLESTON—*Charleston Iron Works, 25 Pritchard
*Riley, J. F. Foundry & Machine Works, 8
*Riverside Iron Works, Concord South
*Valk & Murdoch Iron Works
COLUMBIA—Shields, George A.
SPARTANBURG—Morgau Wood & Iron Works

SOUTH DAKOTA.

SIoux FALLS—Pankow Bros.

TENNESSEE.

CHATTANOOGA—*Call Iron Works, 102 Boyce
*Chattanooga Car & Foundry Co., 401 Boyce
*Chattanooga Roofing & Foundry Co., 720 Eureka Supply Co. E Montgy av
*Southern Malleable Iron Works
JACKSON—*Southern Engine & Boiler Works
KNOXVILLE—*Fair Foundry Co. (Inc.)
*Knoxville Foundry & Machine Co.
MEMPHIS—*Chickasaw Iron Works, 98 2d
Livermore, F. & M. Co., 160 Adams
Pidgeon, Thomas Iron Co., 226 2d
NASHVILLE—Stewart & Bruckner

TEXAS.

AUSTIN—Clark, L. P.
*Tips, Walter Foundry
DALLAS—Harry, O. K. Steel Works
*Mosher Mfg. Co., 313 S Lamar
EL PASO—**MINNEAPOLIS STEEL & MACHINERY CO., 505 Guaranty Trust bldg.**
(See adv. index, end of book)
FORT WORTH—Enterprise Iron Works
*Fort Worth Machine & Foundry Co.
*Van Zandt-Moore Iron Works
GALVESTON—Astell Iron Works
Clarke, Jno. Iron Works
Walsh & Cleary, 213 25th
HOUSTON—Berger, A. A.
*Dickson Car Wheel Co.
Riesner, B. A.

UTAH.

OGDEN—Kiefer L.
SALT LAKE CITY—**MINNEAPOLIS STEEL & MACHINERY CO., 324 Dooley blk.**
(See adv. index, end of book)
*Silver Bros. Iron Works Co.
*Utah Foundry & Machine Co., 137 W South Temple

VIRGINIA.

ALEXANDRIA—Alexandria Iron Works
DANVILLE—*Westbrooks, J. B. Foundry & Machine Co.
NORFOLK—Etna Iron Works, 285 Water
PORTSMOUTH—*Ornamental Iron & Wire Co., Inc. (Cast, Wrought & Ornamental)
RICHMOND—*Cameron-Tennant Machine Works
Carr, Jas. W., 2003 E Main
Old Dominion Iron & Nail Works Co.
Richmond Iron Works, Broad c 15th
Richmond Pattern Works
Tredegar Iron Works, S end 5th
ROANOKE—*Virginia Bridge & Iron Co.

WASHINGTON.

SEATTLE—Camp-Te Roller (Mfrs.' Agents)
MINNEAPOLIS STEEL & MACHINERY CO., 338 Globe bldg. (See adv. index, & branch offices, end of book)
Seattle Iron Works, 2000 Western av
Variety Iron & Wire Works, 1241 Utah
SPOKANE—*National Iron Works, Inc.
Simmons & Sons
Spokane Ornamental Iron & Wire Works
*Union Iron Works (Inc.)
TACOMA—*Puget Sound Iron & Steel Works

WEST VIRGINIA.

WHEELING—Architectural Iron & Wire Works, 18th & Chapline
*Wheeling Mold & Foundry Co.

WISCONSIN.

APPLETON—*Valley Iron Works Co. (Castings & Columns, etc.)
EAU CLAIRE—*Phoenix Mfg. Co.
LA CROSSE—Smith Mfg. Co.
Torrance, John & Son
MADISON—*King & Walker Co.
Kupfer, Theodore
MILWAUKEE—American Bridge Co., 17th & St. Paul av
Badger Wire & Iron Works
Colnik, C. Mfg. Co., 221 8th
Globe Wire & Iron Works, Atkinson av
*Greensdale Foundry Co., Jackson & Corcoran av

Hackendahl & Schmidt, 1515 St. Paul av
Stehling, C. H. & Sons, 508 Commerce
Wagner, A. F., 514 Market
Wisconsin Bridge & Iron Co., Pabst bldg
WISCONSIN IRON & WIRE
Works, 190 E Water. (See adv. index, end of book)
WORDEI-ALLEN CO., P. O. Box 528. (See adv. index, end of book)
RACINE—Dickey, A. P. Mfg. Co.
RHINELANDER—Rhinelander Iron Works
SUPERIOR—Strothman Iron Co.
WEST BEND—*Gehl Bros. Mfg. Co. (Castings Only)

Iron Axles

(See Axles, Various Kinds.)

Iron Bolts

(See Bolts, Various Kinds)

Iron Bridge Builders

(See Bridge Builders, Steel)

Iron Bridge Plate

(See Plate, Steel Bridge)

Iron Castings

(See Castings, Various Kinds; also Founders, Malleable Iron; also Machinists & Founders; also Stove Mfrs., etc.)

*Iron (Charcoal Sheet)

AMERICAN SHEET & TIN PLATE
Co. (Hammered Bloom Galvanized), Frick bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)
Garry Iron & Steel Co., Cleveland, O.

Iron Construction

(See Iron & Steel Structural Work)

*Iron Doors

JACKSON, WM. H. CO., 29 E 11th
(Union sq). New York. (See adv. index, end of book)

Iron (Electrical)

(See Iron & Steel Sheet, Electrical)

Iron Fencing

(See Iron Railings & Fences; also Wire Fences & Gates)

Iron (Fire Box Plate)

(See Plate, Steel Fire Box)

Iron Forgings

(See Forgings, Iron & Steel)

Iron Muck Bar

Clearfield Steel & Iron Co., Pittsburg, Pa., & Clearfield, Pa.

Glasgow Iron Co., Pottstown, Pa.
Godcharles, F. Co. (3, 4, 5 & 6), Milton, Pa.
Howe & Samuel, Drexel bldg, Phila., Pa., & Danville, Pa.

Janson Steel & Iron Co., Columbia, Pa.
Lessig, Geo. B. Co., Pottstown, Pa.
Potts Bros. Iron Co., Pottstown, Pa.
Shenango Iron & Steel Co., Pittsburg, Pa. Works, Wheatland, Pa.

Stewart Iron Co. (Ltd.) (Low Phosphorus), Perry Payne bldg, Cleveland, O., & Sharon, Pa.
Van Alen & Co., Northumberland, Pa.
Wheeling Steel & Iron Co., Wheeling, W. Va.
Wilkes Rolling Mills Co., Sharon, Pa.
Williamsport Iron & Nail Co., Williamsport, Pa.
Youngstown Sheet & Tube Co., Youngstown, O.
Zug Iron & Steel Co. (Puddled Stock)

Iron (Norway)

(See Iron & Steel, Swedish)

P. RIESECK, FOR ESTIMATES ON ALL KINDS OF IRON WORK
Allegheny Ave. and Rebecca St., ALLEGHENY, PA.

Iron Paints

(See Paints for Coating & Preserving Iron & Steel)

Iron (Planished)

(See Locomotive Jacket Iron)

Iron Pier Builders

(See Iron & Steel Structural Work)

Iron (Pig)

Addy, Matthew & Co., Carlisle bldg, Cincinnati, O.
Alabama Consolidated Coal & Iron Co. ("Clifton" & "Etowah" Foundry), Birmingham, Ala.
Allegheny Ore & Iron Co., Clifton Forge, Va.
Andrews & Hitchcock Iron Co. (Hubbard Scotch Foundry & Bessemer), Youngstown, O.
Ashland Iron & Steel Co., Ashland, Wis.
Ashland Steel Co. (Bessemer), Ashland, Ky.
Atlantic Iron & Steel Co. (Bessemer), New Castle, Pa.
Bacon, S. P. & Co. (Mrs.' Agents), 142 E 4th, Cincinnati, O.
Backman, W. W. (Mrs.' Agent), 163 Randolph, Chicago, Ill.
Barnum-Richardson Co. (Sallsbury Charcoal), Lime Rock, Conn.
Bartlett, N. S. & Co., 126 State, Boston, Mass., & Whitehall bldg, New York City
Bellefonte Furnace Co., Bellefonte, Pa.
Bessie Ferro-Silicon Co. (Bessemer Ferro-Silicon), Columbus, O.
Bethlehem Steel Co., South Bethlehem, Pa.
Blair, Reed, F. & Co. (Dealers), Frick bldg, Pittsburgh, Pa.
Bole, Ross & Co. (Dealers), Lewis blk, Pittsburgh, Pa.
Bourne-Fuller Co. (Dealers) (Bessemer & Foundry), Hickok bldg, Cleveland, O.
Brier Hill Iron & Coal Co. (Bessemer, etc.), Youngstown, O.
Brooke, E. & G. Iron Co., Birdsboro, Pa.
Brown, Harvey H. & Co., Perry-Payne bldg, Cleveland, O.
Buffalo Union Furnace Co., 51 Hamburg, Buffalo, N. Y., & Perry-Payne bldg, Cleveland, O.
Buffalo & Susquehanna Iron Co., Buffalo, N. Y.
Cabeen & Co. (Dealers), Real Estate Trust bldg, Phila., Pa.
Carbon Iron & Steel Co., Mauch Chunk, Pa.
Carnegie Steel Co., Pittsburgh, Pa.
Central Iron & Steel Co., Harrisburg, Pa.
Cherry Valley Iron Co., 307 4th av, Pittsburgh, Pa., & West Middlesex, Pa.
Citico Furnace Co., Chattanooga, Tenn.
Claire Furnace Co., Sharpsville, Pa.
Claire Iron Co., Portsmouth, O.
Cleveland-Cliffs Iron Co., Rockefeller bldg, Cleveland, O.
Cleveland Furnace Co., Rockefeller bldg, Cleveland, O.
Clinton Iron & Steel Co. (Foundry, Bessemer Forge & Basic), 252 W Carson, Pittsburgh, Pa.
Coffin, Chas. E. (Charcoal), Muirkirk, Md.
Colorado Fuel & Iron Co., Denver, Col.
Colorado Iron Works Co., Denver, Colo.
Columbus Iron & Steel Co. (Foundry, Bessemer & Malleable), Columbus, O.
Corrigan, McKinney & Co. (Brokers & Dealers), Perry-Payne bldg, Cleveland, O., & Scottsdale, Pa.
Cotton, Barclay W. & Co. (Dealers), 418 Walnut, Phila., Pa.
Cox, Justus, Jr., & Co. (Dealers in Bessemer Forge Foundry & Low Phos.), Land Title bldg, Phila., Pa.
Crerar-Clinch & Co., Rookery bldg, Chicago
Crocker Bros. (Dealers), 99 John, N. Y., & Penna. bldg, Phila., Pa.
Dayton Coal & Iron Co. (Ltd.), Dayton, Tenn.
De Camp Bros. & Yule Iron, Coal & Coke Co., Missouri Trust bldg, St. Louis
Detroit Iron & Steel Co., 149 Jefferson, Detroit, Mich.
Dimmick, J. K. & Co. (Charcoal, etc.), Land Title bldg, Phila., Pa., & Murland bldg, Pittsburgh, Pa.
Donk Bros. Coal & Coke Co., 314 N 4th, St. Louis, Mo.
Dunbar Furnace Co., Bullitt bldg, Phila., Pa.
Elk Rapids Iron Co., Elk Rapids, Mich.
Empire Steel & Iron Co. (Bessemer & Foundry), Catasauqua, Pa.
Emporium Iron Co. (Foundry Pig Iron), Emporium, Pa.
Fieser & Bentley, Columbus, O.
Genesee Furnace Co., Perry-Payne bldg, Cleveland, O.
Georgia Iron & Coal Co. ("Rising Fawn" Foundry & Forge), Atlanta, Ga.
Girard Iron Co. (Bessemer, Foundry & Grey Forge), Girard, O.
Goff, Horner & Co. (Dealers), Frick bldg, Pittsburgh, Pa.
Hanna, M. A. & Co. (Bessemer, Foundry & Charcoal), Perry-Payne bldg, Cleveland, O.
Hesser, Jno. T. & Co., Rialto bldg, St. Louis
Hickman, Williams & Co. (Dealers), The Rookery, Chicago, Ill.
Houston, C. B. & Co. (Dealers), Girard bldg, Phila., Pa.
Illinois Steel Co., The Rookery, Chicago, Ill.
Iroquois Iron Co., Chicago, Ill.
Jones & Laughlin Steel Co., Pittsburgh, Pa.
Johnson, Geo. T. & Co. (Dealers), Penna. bldg, Phila., Pa.
Keeley, Jerome & Co. (Dealers in Foundry & Forge), 421 Chestnut, Phila., Pa.
Kittanning Iron & Steel Mfg. Co., Kittanning, Pa.
LaBelle Iron Works, Steubenville, O.
Lacey-Buck Iron Co., Birmingham, Ala.
La Follette Coal, Iron & Railway Co., La Follette, Tenn.
Law, Ernest & Co. (Dealers), 1502 Market, Phila., Pa.
Lea, J. Tatnall & Co. (Dealers, Bessemer Mill & Foundry), 19 S 12th, Phila., Pa.
LEAVITT, C. W. & CO. (Merchants), 220 B'way, N. Y. (See adv. index, end of book)
Lehigh Steel & Iron Co., Allentown, Pa.
Logan Iron & Steel Co. (Charcoal), Harrison bldg, Phila., Pa., & Burnham, Pa.
Low Moor Iron Co. of Va., Low Moor, Va.
McClure, G. W. Son & Co., Bessemer bldg, Pittsburgh, Pa.
McKeefrey & Co., Leetonia, Ohio
Manistique Iron Co., Leib cor Wight, Detroit, Mich.
Maryland Steel Co., Sparrows Point, Baltimore, Md.
Midland Steel Co., German Nat'l Bk. bldg, Pittsburgh, Pa.
Michigan Iron Co., Ltd., Leib cor Wight, Detroit, Mich.
Midvale Mining & Mfg. Co., 705 Olive, St. Louis, Mo.
Moffat, F. D. & Co. (Brokers & Dealers), 81 Fulton, N. Y.
Mohr, J. J. (Foundry, Forge, Charcoal & Bessemer), Bullitt bldg, Phila., Pa.
Nicol, B. & Co. (Basic, Bessemer, Forge & Norton Iron Works, Ashland, Ky.
Ohio Iron & Steel Co. (Foundry & Bessemer), Lowellville, O.
Peninsular Iron Mfg. Co., Wight cor Leib, Detroit, Mich.
Penn Iron & Coal Co., Perry-Payne bldg, Cleveland, O.
Perkins & Co., Sharpsville, Pa.
Pickands, Brown & Co., Rookery bldg, Chicago, Ill.
Pickands, Mather & Co., Cleveland, O., & Middlesex, Pa.
Pilling & Crane (Wholesale Jobbers), Girard bldg, Philadelphia, Pa.
Pollock, Wm. B., Youngstown, O.
Pulaski Iron Co. (Foundry), Real Estate Trust bldg, Phila., Pa.
Punxsutawney Iron Co., Punxsutawney, Pa., & Erie Co. Bank bldg, Buffalo, N. Y.
Reading Iron Co., Reading, Pa.
Red River Furnace Co. (High Silicon & Soft), Clarksville, Tenn.
Republic Iron & Steel Co. (Bessemer, Foundry & Mill), Frick bldg Annex, Pittsburgh, Pa.
River Furnace & Dock Co., Perry-Payne bldg, Cleveland, O.
Roane Iron Co., Chattanooga, Tenn.
Rockdale Iron Co., Rockdale, Tenn.
Rogers-Brown & Co. (Dealers), Cincinnati, O.
Rome Furnace Co. (Charcoal Car Wheel), Chattanooga, Tenn., & Rome, Ga.
Runyon, Fairbank & Co., Citizens' bldg, Cleveland, O.
St. Louis Blast Furnace Co., Union Trust bldg, St. Louis, Mo.

Salem Iron Co., Leetonia, O.
Samuel, Frank (Firm of) (Importers, Exporters, etc.), 1502 Market, Phila., Pa.
Scottsdale Furnace Co., Perry-Payne bldg, Cleveland, O.
Sharpsville Furnace Co., Sharpsville, Pa.
Shenandoah Iron & Coal Co., Liberty Furnace, Va.
Shenango Furnace Co. (Sand, Chill & Machine Cast), Frick bldg, Pittsburgh, Pa.
Shepard, Chas. G. (Domestic & Foreign), 401 Ellicott Sq., Buffalo, N. Y.
Shimer, Sam'l M. Co. (Also Iron Ore Dealers & Brokers), Meech av cor E 99th, Cleveland, O.
Shook & Fletcher (Jobbers), Birmingham, Ala.
Sloss, Sheffield Steel & Iron Co. (Foundry), Birmingham, Ala.
Snyder, W. P. & Co. (Dealers, Bessemer, Basic & Malleable), Frick bldg, Pittsburgh, Pa.
South Chicago Furnace Co. (Malleable Bessemer), 158 Wabash, Chicago, Ill.
Furnaces: Irondale, Chicago, Ill.
Spring Valley Iron & Ore Co., Monadnock bldg, Chicago, Ill.
Standard Iron Co., Goodrich, Tenn.
Southern Steel Co., Birmingham, Ala.
Stevenson, C. A. Pig Iron & Coke Co., 421 Olive, St. Louis, Mo.
Stewart Iron Co. (Ltd.) (Bessemer, Low Phosphorus, Foundry), Perry-Payne bldg, Cleveland, O., & Sharon, Pa.
Struthers Furnace Co., Citizens' bldg, Cleveland, O.
Superior Charcoal Iron Co. (Charcoal), Grand Rapids, Mich.
Susquehanna Iron & Steel Co., Columbia, Pa.
Tennant & Sons Co. ("Scotch" & "English" Importers), 76 William, New York
Tennessee Coal, Iron & Railroad Co. (Basic, Forge & Foundry), Birmingham, Ala.
Thomas Furnace Co. (Foundry, Malleable & Bessemer), Milwaukee, Wis.
Thomas Iron Co. (Foundry, Forge, Bessemer & Open-Hearth Basic Pig), Easton, Pa., & Hokendauqua, Pa.
Thomas, Wm. R. (Dealer), 95 Liberty, N. Y.
Toledo Furnace Co. ("Toledo," Scotch, Foundry & Malleable), Toledo, O.
Tonawanda Iron & Steel Co., North Tonawanda, N. Y., & Erie Co. Bank bldg, Buffalo, N. Y.
Virginia Iron, Coal & Coke Co. (Foundry, Forge, Malleable, Charcoal, etc.), Bristol, Tenn., & Ivanhoe, Va.
Warwick Iron & Steel Co. (Foundry & Mill), Girard Trust bldg, Phila., Pa., & Pottstown, Pa.
Wharton, Jos., Wharton, N. J.
Wheeler, Mifflin & Co. (Also Muck Bars), The Arcade, Phila., Pa.
Wheeling Steel & Iron Co., Wheeling, W. Va.
Williamson Iron Co., Birmingham, Ala.
Wilson, E. H. & Co., Arcade bldg, Phila., Pa.
Wister, L. & R. & Co. (Basic Forge & Foundry), Bullitt bldg, Phila., Pa.
Youngstown Sheet & Tube Co., Youngstown, O.
Youngstown Steel Co. (Bessemer, Basic & Forge), Youngstown, O.

Iron Pipe

(See Pipe & Tube Mills)

*Iron Plaques for Fireplace Backs

JACKSON, WM. H. COMPANY, 29 E 17th (Union sq.), New York. (See adv. index, end of book)

Iron Railings & Fences

(For other Iron Railing Mfrs. see Iron Architectural & Ornamental; also Bank & Office Railings; also Wire Fences)
Adams Steel & Wire Co., Joliet, Ill.
AJAX IRON & WIRE CO., 75 York, Brooklyn, N. Y. (See adv. index, end of book)
AMOS, CHARLES & CO., 94 W Larned, Detroit, Mich. (See adv. index, end of book)
ANCHOR POST IRON WORKS, 41 Park row, New York. (See adv. below)
Atlanta Wire & Iron Works Co., 64 N Broad, Atlanta, Ga.

IRON RAILINGS, WIRE FENCES, ENTRANCE GATES.

We manufacture all kinds of Gates, Railings and Fences, and set them in place in any part of the country. Write for Catalogue.

ANCHOR POST IRON WORKS, 41 PARK ROW, NEW YORK.



ARTISANS IN ORNAMENTAL IRON WORK

SPECIALTIES

ELEVATOR ENCLOSURES.

ORNAMENTAL IRON GATES.

MARQUEES and CANOPIES.

BANK and OFFICE RAILINGS.

LAMP STANDARDS.

IRON STAIRWAYS.

IRON RAILINGS.

STORE FRONTS.

WINDOW GUARDS.

GRILLES and SCREENS.

BUILDERS' CASTINGS A SPECIALTY.

BETHLEHEM FOUNDRY & MACHINE CO.,

SOUTH BETHLEHEM, PA.

New York City Office, 149 BROADWAY.



ORNAMENTAL IRON AND BRONZE.

BRONZE DOORS, ENTRANCES,
PORTECOCHERES, ELEVATOR
CARS, ELEVATOR ENCLOSURES,
STAIRWAYS, STORE FRONTS,
MARQUISE, BANK AND OFFICE
RAILINGS GATES, GRILLES AND
TABLETS.

Contracts executed for the complete
equipment of Ornamental Iron and
Bronze Work in Office Buildings, Banks,
Residences, etc.

SEND FOR "FOLDER N."

THE W. S. TYLER COMPANY

General Office, CLEVELAND, O.

Branch Offices: NEW YORK AND PITTSBURGH.

THE DONOVAN WIRE & IRON COMPANY



ELECTROPLATING.
WINDOW GUARDS AND GRILLS.
ELEVATOR CABS AND ENCLOSURES.
BANK AND OFFICE FIXTURES.
STEEL COLUMNS AND BEAMS.
CAST COLUMNS AND LINTELS.

CHICAGO ST. & W. & L. E. RY.

BRASS WORK.
SIDEWALK LIGHTS AND GRATINGS.
VAULT DOORS AND GUARDS.
IRON SHUTTERS AND DOORS.
FENCING AND CRESTING.
IRON STAIRS.

TOLEDO, OHIO.

BAKER MFG. CO., Allegheny &
South avs, Allegheny, Pa. (See adv. index,
end of book)

Balderston, H. & Son, 119 Light, Baltimore, Md.
Barbee Wire & Iron Works, 44 Dearborn, Chi-
cago, & Lafayette, Ind.
Barnum, E. T. Wire & Iron Works, Detroit,
Mich.
Bayley, Wm. Co., Springfield, O.
Belmont Iron Works, 22d & Wash'n av, Phila.,
Pa.

BETHLEHEM FOUNDRY & MACHINE
Co., Front, South Bethlehem, Pa., & 149
B'way, New York. (See adv. index, end of
book)

BOLLES, J. E. IRON & WIRE
Works, 4th av & Porter, Detroit, Mich.
(See adv. index, end of book)

Booth, John Wire & Iron Works, 37 Indiana,
Chicago, Ill.

BRADLEY & HUBBARD MFG. CO.,
Meriden, Conn. (See adv. index, end of
book)

BROWN BROS. MFG. CO., 22d &
Campbell av, Chicago, Ill. (See adv. index,
end of book)

Brown-Ketcham Iron Works, 2549 W Michigan,
Indianapolis, Ind.; also New York City &
Chicago, Ill.

BUFFALO WIRE WORKS CO., 316
Terrace, Buffalo, N. Y. (See adv. index,
end of book)

CANTON FOUNDRY & MACHINE CO.,
Canton, O. (See adv. index, end of book)

CHAMPION IRON CO., Kenton, O.
(See adv. index, end of book)

Chesapeake Iron Works, Baltimore, Md.
CHICAGO ORNAMENTAL IRON CO.,
37th & Stewart av, Chicago. (See adv. in-
dex, end of book)

Child, W. C. W., 1 Madison av, New York
Christopher & Simpson Arch'l Iron & Foundry
Co., 811 Park av, St. Louis, Mo.
COLUMBIA IRON & WIRE WORKS
Co., Canton, O. (See adv. index, end of
book)

Cornell, J. B. & J. M. Co., 11th av & 26th,
New York

Creswell, S. J. Iron Works, 23d & Cherry,
Phila., Pa.

DARBY, EDWARD & SONS CO., 239
Arch, Phila., Pa. (See adv. index, end of
book)

Dauchy Iron Works, 88 Illinois, Chicago, Ill.
Davenport Foundry & Machine Co., 1693 W 4th,
Davenport, Ia.

Dimond, Thomas, 128 W 33d, New York
DONOVAN WIRE & IRON CO. (Rail-
ings Only), Chicago st & W. & L. E. R'y,
Toledo, O. (See adv. index, end of book)

Dow Wire & Iron Works, Louisville, Ky.
Dufur & Co., 311 N Howard, Baltimore, Md.
Eagle Iron Works (Inc.), 850 De Kalb av,
Brooklyn, N. Y.

Ernest's Chas. F. Sons, 65 Lathrop, Buffalo,
N. Y.

Fletcher & Crowell Co., Portland, Me.
Flour City Ornamental Iron Works, 27th av &
27th, S, Minneapolis, Minn.

Glen Mfg. Co., Ellwood City, Pa.
Goess, Fred (Railings), New Brighton, N. Y.
Grote Mfg. Co., Evansville, Ind.

HALSTED, JOSEPH CO., 388 W Ran-
dolph, Chicago, Ill. (See adv. index, end
of book)

Hassell Iron Works Co., Colorado Springs, Col.
Hecla Iron Works, 118 N 11th, Brooklyn, N. Y.
Herzog Iron Works, St. Paul, Minn.

HICKEY, M. H. WIRE & IRON
Works, 54 Dearborn, Chicago, Ill.

Howard & Morse, 45 Fulton, New York
JACKSON, WM. H. COMPANY, 29 E
17th (Union sq.), New York. (See adv. in-
dex, end of book)

Jones, Willis H., 70 Hotel, Utica, N. Y.
Jonson's, Julius Sons, 63 Hudson, Jersey City,
N. J.

KAMMAN, WALTER, Front & Law-
rence, Cincinnati, O. (See adv. index, end
of book)

Koehn, Alfred, 157 W 29th, New York
Kratzer, W. N. & Co., 3218 Smallman, Pitts-
burg, Pa.

LANDON, E. R. IRON & WIRE
Works, 1243 Fillmore, Chicago, Ill. (See
adv. index, end of book)

Lasar-Letzlg Mfg. Co., 1313 N 16th, St. Louis,
Mo.

Lauer & Harper Co. (Inc.), Westport, Balti-
more, Md.

Lindenschmidt, H. & G., 417 Ingle, Evans-
ville, Ind.

Lobel, Andrews Co., 531 W 55th, New York
McKinnney, Jas. & Son, 927 B'way, Albany,
N. Y.

MERRITT & CO., 1024 Ridge av,
Phila., Pa. (See adv. index, end of book)

Mast, Foos & Co. (Public Grounds, Cemeteries,
etc.), Springfield, O.

Mesker, Geo. L. & Co., Evansville, Ind.
Midland Metal Co., Inc., 1427 Catherine,
Phila., Pa.

Northwestern Foundry, 312 10th av, s, Minne-
apolis, Minn.

OHIO STRUCTURAL IRON CO., San-
dusky, O. (See adv. index, end of book)

Ornamental Iron & Wire Co. (Inc.), Ports-
Palmer, C. F., Utica, N. Y. mouth, Va.

Phoenix Steel Co., Inc., Putnam & P. R. R.,
Pittsburg, Pa.

PITT, WM. R. COMPOSITE IRON
Works, 136-138 W 24th, New York. (See
adv. index, end of book)

Ralston Iron Works, 222 Howard, San Francis-
co, Cal.

REMPPIS, WM. F. CO., Reading, Pa.,
& 156 Sansom, Phila., Pa. (See adv. in-
dex, end of book)

Richey, Browne & Donald (& Bronze), Maspeth,
Borough of Queens, N. Y.

RIESECK, P., Allegheny av & Re-
becca, Allegheny, Pa. (See adv. index,
end of book)

SCHREIBER, L. & SONS CO., 8th &
Eggleston av, Cincinnati, O., & 1133 B'way,
New York

SMITH, F. P., WIRE & IRON WORKS,
100 Lake, Chicago, Ill. (See adv. index,
end of book)

SNEAD & CO. IRON WORKS, ft. of
Pine st, Jersey City, N. J. (See adv. index,
end of book)

Stewart Iron Works Co., 716 E 3d, Cincinnati,
O.

TAYLOR & DEAN, 205 Market,
Pittsburg, Pa. (See adv. index, end of
book)

Temple Ornamental & Structural Iron Works
Co., Temple, Pa.

Thompson, Hervey, 176 E 119th, N. Y.
TYLER, W. S. CO., Cleveland, O., &
11 B'way, New York. (See adv. index, end
of book)

UNION FOUNDRY WORKS, First Na-
tional Bank bldg, Chicago, Ill. (See adv.
index, end of book)

Union Iron & Foundry Co., 1458 S 2d, St.
Louis, Mo.

Vilsack, Martin Co. (Ltd.), 3222 Penna av,
Phila., Pa.

Voss, Frederick, 617 to 621 Austin av, Chi-
cago, Ill.

VULCAN CO., Detroit, Mich. (See
adv. index, end of book)

Wayne Iron Works (Inc.), Arcade hldg.,
Phila., Pa.

Westervelt, A. B. & W. T., 102 Chambers,
N. Y.

West Side Structural Co., Watervliet, Troy,
N. Y.

WINSLOW BROS. COMPANY, Main
Office & Works, 2515 W Harrison, Chicago,
Ill. (See adv. index & branch offices, end of
book)

WISCONSIN IRON & WIRE WORKS,
190 E. Water, Milwaukee, Wis. (See adv.
index, end of book)

WRIGHT WIRE CO., Worcester,
Mass. (See adv. index, end of book)

Iron Rails

(See Rails, Steel)

Iron Rods

(See Rods, Various Kinds)

Iron Roofing & Siding

(See Roofing & Siding, Iron & Steel)

Iron (Rustless Oxidized)

Hecla Iron Works, 118 N 11th, Brooklyn, N. Y.
Herzog Iron Works (Schuldt Process), St. Paul,
Minn.

Schreiber, L. & Sons Co., 8th & Eggleston av,
Cincinnati, O., & 1133 B'way, N. Y.

TYLER, W. S. CO., Cleveland, O., &
11 B'way, New York. (See adv. index, end
of book)

Iron Shutters

(See Shutters, Steel; also Shutters, Steel Roll-
ing)

Iron Spikes

(See Splkes, Varlous Kinds)

Iron Stair Builders.

AJAX IRON & WIRE CO., 75 York,
Brooklyn, N. Y. (See adv. index, end of
book)

Albree, Chester B., Iron Works, 1115 Market,
Allegheny, Pa.

AMOS, CHARLES & CO., 94 W
Larned, Detroit, Mich. (See adv. index,
end of book)

BAKER MFG. CO., Allegheny &
South avs, Allegheny, Pa. (See adv. index,
end of book)

Barbee Wire & Iron Works, 44 Dearborn, Chi-
cago, & Lafayette, Ind.

Barnum, E. T. Wire & Iron Works, Detroit,
Mich.

Belmont Iron Works, 22d & Washington av,
Phila., Pa.

BETHLEHEM FOUNDRY & MACHINE
Co., Front, South Bethlehem, Pa., & 149
B'way, New York. (See adv. index, end
of book)

Bois Sheet Steel Stair Co., 50 Vestry, New York
BOLLES, J. E. IRON & WIRE
Works, 4th av & Porter, Detroit, Mich. (See
adv. index, end of book)

BRADLEY & HUBBARD MFG. CO.,
Meriden, Conn. (See adv. index, end of
book)

BROWN BROS. MFG. CO., 22d &
Campbell av, Chicago, Ill. (See adv. in-
dex, end of book)

Brown-Ketcham Iron Works, Indianapolis, Ind.
Caldwell & Drake Iron Works, Columbus, Ind.

CANTON FOUNDRY & MACHINE CO.,
Canton, O. (See adv. index, end of book)

CHAMPION IRON CO., Kenton, O. (See
adv. index, end of book)

Chesapeake Iron Works, Severn & Bayard, Bal-
timore, Md.

CHICAGO ONAMENTAL IRON CO.,
37th & Stewart av, Chicago, Ill. (See adv.
index, end of book)

Chickasaw Iron Works, Memphis, Tenn.
Child, W. C. W., 1 Madison av, New York

CITY FORGE & IRON WORKS (An-
drew Plocher, Prop.), Dayton, O. (See adv.
index, end of book)

Christopher & Simpson Arch'l Iron & Foundry
Co., 811 Park av, St. Louis, Mo.

COLUMBIA IRON & WIRE WORKS
Co., Canton, O. (See adv. index, end of
book)

Cornell, J. B. & J. M. Co., 26th & 11th av,
New York

Creswell, S. J. Iron Works, 23d & Cherry,
Philadelphia, Pa.

Crown Iron Works Co., 113 2d av, s e, Minne-
apolis, Minn.

Dauchy Iron Works, 88 Illinois, Chicago, Ill.

DONOVAN WIRE & IRON CO., Chic-
ago st & W. & L. E. R'y, Toledo, O. (See
adv. index, end of book)

Eagle Iron Works, 850 De Kalb av, B'klyn,
N. Y.

Ernst's Chas. F. Sons, 65 Lathrop, Buffalo, N.
Y.

Fletcher & Crowell Co., Portland, Me.
Flour City Ornamental Iron Works, 27th av &
27th, S, Minneapolis, Minn.

FOREST CITY STEEL & IRON CO.,
10th ur Detroit av, Cleveland, O. (See adv.
index, end of book)

Grossman Bros. & Rosenbaum, 540 W 58th,
N. Y.

HALSTED, JOSEPH CO., 388 W Ran-
dolph, Chicago, Ill. (See adv. index, end of
book)

Hecla Iron Works, 118 N 11th, Brooklyn, N. Y.
Hedden Iron Construction Co., New York, N. J.

HICKEY, M. H. WIRE & IRON
Works, 54 Dearborn, Chicago, Ill.

Holmes, Pyott & Co., Jefferson, n Lake, Chi-
cago, Ill.

JACKSON, WM. H. COMPANY, 29 E
17th (Union sq.), New York. (See adv. in-
dex, end of book)

Jonson's, Julius Sons, 63 Hudson, Jersey City,
N. J.

KAMMAN, WALTER, Front & Law-
rence, Cincinnati, O. (See adv. index, end
of book)

Kellogg Iron Works, Buffalo, N. Y.

LANDON, E. R. IRON & WIRE
Works, 1243 Fillmore, Chicago, Ill. (See
adv. index, end of book)

Kratzer, W. N. & Co., 3218 Smallman, Pitts-
burg, Pa.

Lewis, Henry B., 45 Jos. Campau av, Detroit,
Mich.

Lobel-Andrews Co., 531 W 55th, New York
McKinney, Jas. & Son, 927 B'way, Albany,
N. Y.

MERRITT & CO., 1024 Ridge av.
Phila., Pa. (See adv. index, end of book)
Mesker Bros., 421 S 6th, St. Louis, Mo.
Mesker, Geo. L. & Co., Evansville, Ind.
Midland Metal Co. (Inc.), 1427 Catherine,
Phila., Pa.

Mugler's Iron Works, 1133 E 136th, New York
Northwestern Foundry, 312 10th av, S Minne-
apolis, Minn.

OHIO STRUCTURAL IRON CO., San-
dusky, O. (See adv. index, end of book)
Ornamental Iron & Wire Co., Portsmouth, Va.
Paxton & Vierling Iron Works, Omaha, Neb.
Phoenix Steel Co. (Inc.), Putnam & R R, Pitts-
burg, Pa.

Prince Iron Works, 555 W 33d, New York
REMPIS, WM. F. CO., Reading, Pa.,
& 1506 Sansom, Phila., Pa. (See adv. index,
end of book)

Richey, Browne & Donald, Maspeth, Borough
of Queens, N. Y.
RIESECK, P., Allegheny av & Re-
becca, Allegheny, Pa. (See adv. index,
end of book)

RUSSEL WHEEL & FOUNDRY CO.,
Detroit, Mich. (See adv. index, end of
book)

ST. PAUL FOUNDRY CO., Como
av, & Toppling, St. Paul, Minn. (See adv.
index, end of book)

Schrelber, L. Sons & Co., 8th & Eggleston av,
Cincinnati, O., & 1133 B'way, N. Y.
SMITH, F. P., WIRE & IRON WORKS,
100 Lake, Chicago, Ill. (See adv. index,
end of book)

Smith & Caffrey, Prop's. (Phoenix-Porter Foundry),
1421 N Salina, Syracuse, N. Y.
Smyser's, E. G. Sons, York, Pa., & Baltimore,
Md.

Suead Architectural Iron Works, 10th & Hill,
Louisville, Ky.
SNEAD & CO. IRON WORKS, foot of
Pine st., Jersey City, N. J. (See adv. in-
dex, end of book)

Standard Arch'l Iron Works, 181 Newberry,
Chicago, Ill.
Standard Co., W 15th & Laffin, Chicago, Ill.

Steward & Stevens Iron Works, 9th & Montg'y
av, Phila., Pa.

Syracuse Architectural Iron Works, Syracuse,
N. Y.

TAYLOR & DEAN, 205 Market,
Pittsburg, Pa. (See adv. index, end of book)
Temple Ornamental & Structural Iron Works
Co., Temple, Pa.

Thompson, Hervey, 176 E 119th, N. Y.
TYLER, W. S. CO., Cleveland, O., &
11 B'way, New York. (See adv. index, end
of book)

UNION FOUNDRY WORKS, First Na-
tional Bank bldg, Chicago, Ill. (See adv.
index, end of book)

Union Iron Works Co., Colerain av & Sassafras,
Cincinnati, O.

Union Iron & Foundry Co., 145 S 2d, St.
Louis, Mo.

Van Dorn Iron Works Co., 2685 E 79th, Cleve-
land, O.

Vierling, McDowell & Co., 23d & Stewart, Chi-
cago, Ill.

Vilsack, Martin Co. (Ltd.), 3222 Penn av, Pitts-
burg, Pa.

VULCAN CO., Detroit, Mich. (See
adv. index, end of book)

Wayne Iron Works (Inc.), Arcade bldg., Phila.,
Pa.

West Side Structural Co., Watervliet, Troy,
N. Y.

Whale Creek Iron Works, Calver & Moultrie,
Brooklyn, N. Y.

White Bros. Mfg. Co., successors to the Denver
Iron & Wire Works Co., Office—209 Conti-
nental bldg. Works—12th av & S 4th, Den-
ver, Col.

WISCONSIN IRON & WIRE WORKS,
190 E Water, Milwaukee, Wis. (See adv.
index, end of book)

WINSLOW BROS. COMPANY, Main Of-
fice & Works, 2515 W Harrison, Chicago,
Ill. (See adv. index & branch offices, end of
book)

Iron (Staybolt)

American Iron & Steel Mfg. Co., Lebanon, Pa.
Bassett-Presley Co. (Crown), Cleveland, O.
Carnegie Steel Co., Carnegie bldg, Pittsburg,
Pa.
Ewald Iron Co. (Term O. C. Bloom), 939 N 2d,
St. Louis, Mo., & Louisville, Ky.
Falls Hollow Staybolt Co., Cuyahoga Falls, Ohio
Jones, B. M. & Co. ("The Taylor" Best York-
shire), 141 Milk, Boston, Mass.

Fuller Bros. & Co. (Ulster Special), 139 Green-
wich, N. Y.

Hughes & Patterson, 800 Richmond, Phila., Pa.
Jones, B. M. & Co. ("The Taylor," Best York-
shire), 141 Milk, Boston, Mass.

Lockhart Iron & Steel Co. (and Boiler Brace),
McKee's Rocks, Pa.

Logan Iron & Steel Co., Burnham, Pa., &
Harrison bldg, Phila., Pa.

Monongahela Iron & Steel Co. ("Carter," Spe-
cial Locomotive), Pittsburg, Pa., & Hope
Church, Pa.

MURPHY, CHRISTOPHER & CO.
("Carter Special," Mfrs' Representative),
First Nat'l Bank bldg, Chicago, Ill. (See
adv. index, end of book)

New Haven Iron & Steel Co., New Haven,
Conn.

Ohio Falls Iron Co., New Albany, Ind.
Old Dominion Iron & Nail Works Co., Rich-
mond, Va.

Pittsburg Forge & Iron Co. ("Atlas"), Pitts-
burg, Pa.

Republic Iron & Steel Co., Frick bldg Annex,
Pittsburg, Pa.

Rome Merchant Iron Mill, Rome, N. Y.
Ryerson, Jos. T. & Son (Ulster Special), Chicago
Sligo Iron & Steel Co., Counellsville, Pa.

Ulster Iron Works, Dover, N. J.
Union Rolling Mill Co. (Newburgh), Cleveland,
O., & Unionville, Conn.

West End Rolling Mill Co., Lebanon, Pa.
Zug Iron & Steel Co. ("Sable" Special Rail
Road), Pittsburg, Pa.

Iron, Steel & Heavy Hardware (Dealers)

(This list will be furnished on application)

Iron Structural Dealers

(See Steel Structural Dealers)

Iron Structural Shapes (Mfrs.)

(See Steel Structural Shapes, Mfrs.)

Iron Structural Work

(See Steel Structural Work)

Iron Summer Houses

AMOS, CHAS. & CO. (Iron), 94 W
Larned, Detroit, Mich. (See adv. index, end
of book)

Barnum, E. T., 99-105 Shelby, Detroit, Mich.
CHAMPION IRON CO., Kenton, O.
(See adv. index, end of book)

CITY FORGE & IRON WORKS (An-
drew Plocher, Prop.) (Iron & Wire), Day-
ton, O. (See adv. index, end of book)

Lewis, Henry B., 45 Jos. Campau av, Detroit,
Mich.

Schreiber, L. & Sons Co., 8th & Eggleston av,
Cincinnati, O.

SMITH, F. P. WIRE & IRON
Works, 100 Lake, Chicago, Ill. (See adv.
index, end of book)

TAYLOR & DEAN, 205 Market, Pitts-
burg, Pa. (See adv. index, end of book)
Westervelt, A. B. & W. T., 102 Chambers, N. Y.

WISCONSIN IRON & WIRE WORKS,
190 E Water, Milwaukee, Wis. (See adv.
index, end of book)

Iron (Swedish)

(See Iron & Steel, Swedish)

Iron Tanks

(See Tanks, Iron & Steel)

Iron Towers & Tanks

(See Towers, Steel)

Iron Trolley Poles

(See Poles, Iron & Steel Trolley)

Iron Working Machinery

(See Machinery, Various Kinds)

Iron & Steel

(Under this heading see sub-classifications.)

Iron & Steel Angles, Channels, Tees, Etc.

American Tube & Stamping Co. (Small, Steel
only), Bridgeport, Conn.

Buffalo Steel Co. (Bessemer Steel), Toua-
wanda, N. Y.

Cambria Steel Co., Arcade bldg, Phila., Pa.
Carnegie Steel Co. (Steel Only), Pittsburg, Pa.

Colorado Fuel & Iron Co., Denver, Colo.
Danville Structural Tubing Co. (Small Channels
only), Danville, Pa.

Davis Bros. (Angle Iron up to 2 inches), 29th
& Bristol, Phila., Pa.

Eastern Steel Co. (Steel Only, also Tees),
Pottsville, Pa.

Harrow Spring Co. (Steel Angles & Channels),
Kalamazoo, Mich.

Hirsch Rolling Mill Co. (Angles Only), St.
Louis, Mo.

Holidaysburg Iron & Nail Co., Holidays-
burg, Pa.

Illinois Steel Co. (Steel), The Rookery,
Chicago, Ill.

Inland Steel Co. (Steel only), First National
Bank bldg, Chicago, Ill.

Interstate Iron & Steel Co. (Small Steel Angles
Only), 164 Dearborn, Chicago, Ill.

Jones & Laughlin Steel Co. (Steel Only), Also
Tees, Pittsburg, Pa.

Licking Rolling Mill Co., Covington, Ky.
Lockhart Iron & Steel Co. (Angles & Channels
Only), McKee's Rocks, Pa.

Logan Iron & Steel Co. (Iron Angles, etc.),
Harrison bldg, Phila., Pa., & Burn-
ham, Pa.

Milliken Bros. (Inc.), (18-inch Channels, etc.),
11 B'way, New York

New Haven Iron & Steel Co. (Small Channels
only, 3/4 to 1 inch in width in Iron & Steel)
New Haven, Conn.

O'DONNELL, JAMES (Broker), 32 La
Salle, Chicago, Ill.

Oliver Iron & Steel Co., Pittsburg, Pa.
Passaic Steel Co., Paterson, N. J.; 5 Nassau
New York

Penna. Steel Co. (Steel), Girard Trust bldg,
Phila., Pa.

Phoenix Iron Co. (also Tee Bars, Bulb Angles,
etc.), 410 Walnut, Phila., Pa.

Portsmouth Steel Co. (Steel), Wheeling, W. Va.
Works: Portsmouth, O.

Republic Iron & Steel Co., Frick bldg Annex,
Pittsburg, Pa.

Sweet's Steel Co. (Steel Angles & Channels
Only), Williamsport, Pa.

Tennessee Coal, Iron & Railroad Co., Birming-
ham, Ala.

Iron & Steel (Band & Hoop)

AMERICAN STEEL & WIRE CO.
(Barrel & Keg), Rookery, Chicago, Ill. (See
adv. index & branch offices, end of book)

Altoona Iron Co., Altoona, Pa.

Atlanta Steel Hoop Co. (Steel), Atlanta, Ga.
Carnegie Steel Co. (Iron & Steel), Carnegie
bldg, Pittsburg, Pa.

CARY MFG. CO. (Cary's Steel Hoops,
Box Straps, Bale Bands, etc.), 19 Roosevelt,
New York. (See adv. index, end of book)

Colorado Fuel & Iron Co., Denver, Col.
Holidaysburg Iron & Nail Co., Holidaysburg,
Pa.

Illinois Steel Co. (Steel Bands), The Rookery,
Chicago, Ill.

Jones & Laughlins Steel Co., Pittsburg, Pa.
Lockhart Iron & Steel Co. (Bands Only), Mc-
Kee's Rocks, Pa.

Monongahela Iron & Steel Co. (Carter Bands),
Pittsburg, Pa.

Old Dominion Iron & Nail Works Co. (Iron
Bands Only), Richmond, Va.

Pittsburg Steel Co. (Steel only), Frick bldg,
Pittsburg, Pa.

Republic Iron & Steel Co., Frick bldg Annex,
Pittsburg, Pa.

Sharon Steel Hoop Co. (Steel Only), Sharon, Pa.
Sheffield Rolling Mill Co. (Soft Steel Only),
Sheffield, Ala.

Iron & Steel Bar

(See also Steel Tool)

Aetna Nut Co. (Iron), Southington, Conn.
Albany Iron & Steel Work (Special Angle
Shapes, Rounds, Flats, etc.), Troy, N. Y.
American Bridge Co., Pittsburg, Pa.
American Car & Foundry Co. (Iron), 706 Chest-
nut, St. Louis, Mo., & 25 Broad, New York
American Iron & Steel Mfg. Co. (Refined Iron
& Open Hearth & Bessemer Steel Bars &
Rods, etc.), Lebanon, Pa.

AMERICAN ROLLING MILL CO., Middletown, O. (See adv. index, end of book)
 American Rolling Mill Corp. (Iron Only), Blue Island av & 14th, Chicago, Ill. Works, Muncie, Ind.
 Bethlehem Steel Co. (Steel Only), South Bethlehem, Pa.
 Braeburn Steel Co. (Steel), Braeburn, Pa.
 Brown & Co., Inc. (Refined Bar Iron & Hammered Irons for Special Purposes), 10th & Duquesne way, Pittsburg, Pa.
 Buffalo Steel Co. (Bessemer Steel), Tonawanda, N. Y.
 Burden Iron Co., Troy, N. Y.
 Burgess, Chas., Cyclops Steel Works ("Cyclops Refined Hammered Iron"), Titusville, Pa.
 Cambria Steel Co., Arcade bldg, Phila., Pa.
 Carnegie Steel Co. (Iron & Steel), General offices, Pittsburg, Pa.
 Cohoes Rolling Mill Co. (Refined & Puddled Bar Iron), Cohoes, N. Y.
 Colonial Steel Co. (Merchant Steel), Keystone bldg, Pittsburg, Pa.
 Colorado Fuel & Iron Co., Denver, Col.
 Crucible Steel Co. of America (Merchants' Steel Bar), Frick bldg, Pittsburg, Pa.
 Crum Lynne Iron & Steel Co., Crum Lynne, Pa.
 Davis Bros. (Bar Iron), 29th & Bristol, Phila., Pa.
 Duncannon Iron Co. (Iron), Duncannon, Pa., & 122 Race, Phila., Pa.
 Eagle Horse Shoe Co. (Merchants Bar Iron), S. Milwaukee, Wis.
 Eckels-Nye Steel Co., Chemung & Emerson av, Syracuse, N. Y.
 Eleanor Iron Co. (Iron), Hollidaysburg, Pa., & Tyrone, Pa.
 Eleanor Iron & Steel Co. (Bar Iron), Irwin, Pa.
 Ewald Iron Co. (Hexagon & Round Edge Iron, etc.), St. Louis, Mo., & Louisville, Ky.
 Falls Hollow Staybolt Co. (Staybolt), Cuyahoga Falls, O.
 Farist Steel Co. (All Kinds of Merchants' Steel Excepting Sheets), 137 E Main, Bridgeport, Conn.
 Gaulbert & Caskey, York & N American, Phila., Pa.
 Harrisburg Pipe & Pipe Bending Co. (Open Hearth Steel), Harrisburg, Pa.
 Harrow Spring Co. (Merchants' Bars, Mach'y, Steel, etc.), Kalamazoo, Mich.
 Helmbacher Forge & Rolling Mill Co. (Merchant's Bar Iron), Barton & De Kalb, St. Louis, Mo.
 Higbland Iron & Steel Co. (Merchants' Bar Iron & Steel), Terre Haute, Ind.
 Hirsch Rolling Mill Co., St. Louis, Mo.
 Hollidaysburg Iron & Nail Co. (Iron), Hollidaysburg, Pa.
 Illingworth, Jno. Steel Co. (Crucible & Open Hearth Steel), Frankford, Pa., & 25 Cliff, New York
 Illinois Steel Co. (Steel), Rookery bldg, Chicago, Ill., & 71 B'way, New York
 Inland Steel Co. (Steel only), First National Bank bldg, Chicago, Ill.
 Interstate Iron & Steel Co. (Iron & Steel Bars & Shapes), 164 Dearborn, Chicago, Ill.
 Janson Steel & Iron Co. (Iron & Steel), Columbia, Pa.
 Jones & Laughlin Steel Co., Pittsburg, Pa.
 Judson Mfg. Co. (Iron & Steel), San Francisco, Cal.
 Kansas City Bolt & Nut Co. (Iron Only), Kansas City, Mo.
 Kinsley Iron & Machine Co. (Iron), Canton, Mass.
 Knoxville Iron Co. (Iron), Knoxville, Tenn.
 Lackawanna Steel Co. (Merchants' Bar Steel), 2 Rector, New York
 Lebanon Valley Iron Co. (Bar Iron), Lebanon, Pa.
 Licking Rolling Mill Co. (Iron), Covington, Ky.
 Lockhart Iron & Steel Co. (Bands & Hexagons), McKee's Rocks, Pa.
 Logan Iron & Steel Co., Burnham, Pa.
 McInnes Steel Co. (Steel), Corry, Pa.
 Midvale Steel Co. (Steel), Nicetown, Phila., Pa.
 Milton Mfg. Co. (Refined Bar Iron), Milton, Pa.
 Monongahela Iron & Steel Co. ("Carter," "Monon," "Misco"), Pittsburg, Pa. Works: Hope Church, Pa.
 New Haven Iron & Steel Co. (Merchant Bar & Brand Iron & Steel for Bolt, Nut, Rivet Drop Forging, Horse Shoe Rods, Carriage Works, etc.), New Haven, Conn.
 Newport Rolling Mill Co. (Iron), Newport, Ky.
 Norwalk Steel & Iron Co. (Laminated Steel Bars), Norwalk, O.
 Ohio Falls Iron Co. (Iron Only), New Albany, Ind.
 Ohio Valley Steel & Foundry Co. (Steel), Padon City, W. Va.

Old Dominion Iron & Nail Works Co. (Bar Iron Only), Richmond, Va.
 Oliver Iron & Steel Co., Pittsburg, Pa.
 Parkersburg Iron & Steel Co., Parkersburg, W. Va., & Pittsburg, Pa.
 Passaic Steel Co. (Open Hearth Steel), Paterson, N. J.
 Penu Iron Co. (Merchant Bar Iron Only), Lancaster, Pa.
 Penna. Steel Co. (Round, Flat & Square Steel), Steelton, Pa.
 Phoenix Iron Co. (Steel Only), Phoenixville, Pa.
 Pittsburg Forge & Iron Co. (Bar Iron Only), 1003 Penna. av, Pittsburg, Pa.
 Portsmouth Steel Co. (Steel), Wheeling, W. Va.; Works, Portsmouth, O.
 Railway Steel Spring Co., 71 B'way, New York.
 Reading Iron Co., Reading, Pa.
 Republic Iron & Steel Co. (Iron & Steel), Frick bldg Annex, Pittsburg, Pa.
 Rome Merchant Iron Mill (Iron Only), Rome, N. Y.
 St. Louis Steam Forge & Iron Works (Iron Only), East St. Louis, Ill.
SCAIFE, WM. B. & SONS CO. (Iron Only), 221 1st av, Pittsburg, Pa. (See adv. index, end of book)
 Schuylkill Haven Rolling Mills (F. H. Clement & Co.), (Iron Only), Schuylkill Haven, Pa.
 Scranton Bolt & Nut Co. (Iron Only), Scranton, Pa.
 Seyfert, Sam'l R. & Bro., Reading, Pa.
 Sheffield Rolling Mill Co. (Iron Only), Sheffield, Ala.
 Shenaugo Iron & Steel Co. (Refined Iron Bars), Pittsburg, Pa., & Wheatland, Pa.
 Slatington Rolling Mill Co. (Iron), Slatington, Pa.
 Sligo Iron & Steel Co. (Refined Bar Iron), Couellsville, Pa.
 Spang, Chalfaut & Co., Inc., 307 4th av, Pittsburg, Pa.
 Standard Chain Co. (Bar Iron), 301 Ross, Pittsburg, Pa.
 Susquebanna Iron & Steel Co. (Refined Bar Only), Columbia, Pa.
 Sweet's Steel Co. (Merchants' Bar Steel, Special Open Hearth, Flat, Round, Square, Ovals, etc.), Williamsport, Pa.
 Sylvester Co. (Bar Iron), 70 Kilby, Boston, Mass.
 Tennessee Coal, Iron & Railroad Co. (Iron & Steel), Birmingham, Ala.
 Tredegar Co., Richmond, Va.
 Tuttle, C. W. & Co. (Iron Only), Auburn, N. Y.
 Ulster Iron Works, Dover, N. J.
 Union Rolling Mill Co. (Merchant Bar Iron), Cleveland, O., & Unionville, Conn.
 Virginia Iron, Coal & Coke Co. (Merchants' Bar Iron), Radford, Va., & Bristol, Tenn.
 Weller Rolling Mill & Forge Co. (Merchant Bar Iron & Steel), Gadsden, Ala.
 West End Rolling Mill Co. (Iron Only), Lebanon, Pa.
 Westerman & Co. (Set Screw, Iron, etc.; all shapes & sizes), Lockport, N. Y.
 Wheeling Steel & Iron Co. (Sheet), Wheeling, W. Va.
 Wilkes Rolling Mills Co. (Iron Only), Sharon, Pa.
 Wilmington Iron Co. (Refined Merchant's Bar Iron), Wilmington, Del.
 Zug Iron & Steel Co. (Blacksmiths' & Machinery Bars), 13th & Etna, Pittsburg, Pa.

Iron & Steel Boiler & Tank Plate

AMERICAN STEEL & WIRE CO.
 The Rookery, Chicago, Ill. (See adv. index & branch offices, end of book)
 Cambria Steel Co., Arcade bldg, Phila., Pa.
 Carbon Steel Co. (Steel Only), Pittsburg, Pa., & 26 Cortlandt, N. Y.
 Carnegie Steel Company (Steel Only), Pittsburg.
 Central Iron & Steel Co., Harrisburg, Pa.
 Crucible Steel Co. of America (Steel Only), Frick bldg, Pittsburg, Pa.
 Glasgow Iron Co., Pottstown, Pa., & 1502 Market, Phila., Pa.
 Illinois Steel Co. (Steel), The Rookery, Chicago, Ill.
 Jones & Laughlin Steel Co., Pittsburg, Pa.
 Judson Mfg. Co. (Iron), San Francisco, Cal.
 Works, Oakland, Cal.
 Licking Rolling Mill Co., Covington, Ky.
 Lukens Iron & Steel Co., Coatesville, Pa.
 Oliver Iron & Steel Co., Pittsburg, Pa.
 Otis Steel Co. (Steel Only), cor Lake & Lawrence, Cleveland, O.
 Portsmouth Steel Co. (Open Hearth Steel, ½ in. thick by 72 ins. wide, any length up to 16 ft. long), Wheeling, W. Va. Works: Portsmouth, O.

Reading Iron Co., Reading, Pa.
 Republic Iron & Steel Co., Frick bldg Annex, Pittsburg, Pa.
 Rockaway Rolling Mill Co., Rockaway, N. J.
SCAIFE, WM. B. & SONS CO., 221
 1st av, Pittsburg, Pa. (See adv. index, end of book)
 Seidel & Hastings Co. (Charcoal Iron Boiler Plates), Wilmington, Del.
 Seyfert, Simon, Reading, Pa.; works, Gibraltar, Pa.
 Sligo Iron & Steel Co. (Flange & Tank Steel, Bessemer & O. H. Blue Annealed & Wrought Iron Plates & Sheets, 3-16 to 1 inch thick, No. 7 to 20 gauge), Connellsville, Pa.
 Taylor, N. & G. Co., Mariners' & Merchants' bldg, Phila., Pa., & 1123 B'way, N. Y.
 Tennessee Coal, Iron & Railroad Co., Birmingham, Ala.
 Wood, Alan Iron & Steel Co. (Universal Mill Plates), 519 Arch, Phila., Pa.
 Worth Bros. Co. (Steel), Coatesville, Pa.

Iron & Steel (Corrugated, Mfrs.)

(See also Roofing & Siding Iron & Steel)
AMERICAN ROLLING MILL CO., Middletown, O. (See adv. index, end of book)
AMERICAN SHEET & TIN PLATE
 Co. (Black, Painted & Galvanized), Frick bldg, Pittsburg, Pa. (See adv. on following page; branch offices, end of book)
BERGER MFG. CO., Main Office & Works, Canton, O. (See adv. index & branch offices, end of book)
CANTON ART METAL CO., Canton, O. (See adv. index, end of book)
 East Birmingham Roofing & Corrugating Co., Birmingham, Ala.
EDWARDS MFG. CO., Eggleston av, bet. 4th & 5th, Cincinnati, O. (See adv. index & branch offices, end of book)
ELLER MFG. CO., Canton, O. (See adv. index, end of book)
 Empire Iron & Steel Co. (Bessemer & Open Hearth Steel & Wrought Iron), Niles, O.
 Follansbee Bros. Co. (Steel), 3d & Liberty avs, Pittsburgh, Pa.
 Garry Iron & Steel Co., Cleveland, O.
 Globe Iron Roofing & Corrugating Co., Newport, Ky.
 Goff, Horner & Co., Ltd. (Steel Only), Frick bldg, Pittsburg, Pa.
 Hyndman Steel Roofing Co., 318 E 2d, Cincinnati, O.
 Inland Steel Co., 1st Nat'l Bank bldg, Chicago, Ill. Works at Indiana Harbor, Ind. & Chicago Heights, Ill.
 Jersey City Galvanizing Co., 80 Morgan, Jersey City, N. J.
 Kanneberg Roofing & Ceiling Co., Canton, O.
 Kansas City Roofing & Corrugating Co., Kansas City, Mo.
 La Crosse Steel Roofing & Corrugating Co., La Crosse, Wis.
 Licking Rolling Mill Co., Covington, Ky.
MILWAUKEE CORRUGATING CO., Milwaukee, Wis. (See adv. index, end of book)
 McCullough Iron Co., Wilmington, Del.
 Muskingum Valley Steel Co., Zanesville, O.
 N. Y. Iron Roofing & Corrugating Co., Jersey City, N. J.
 Niles Iron & Steel Roofing Co., Niles, O.
 Penn Metal Ceiling & Roofing Co., 23d & Hamilton, Phila., Pa.
 Porter Iron Roofing & Corrugating Co., 27 W Front, Cincinnati, O.
 Reeves Mfg. Co., Canal Dover, O.
 St. Louis Corrugating Co., 113 Souldard, St. Louis, Mo.
SCAIFE, WM. B. & SONS CO., 221
 1st av, Pittsburg, Pa. (See adv. index, end of book)
 Sheet Metal Mfg. Co., Niles, O.
 Southers, E. E. Iron Co., St. Louis, Mo.
 Steel Roofing & Stamping Works, Des Moines, Ia.
 Sykes Steel Roofing Co., 112 W 19th pl, Chicago, Ill.
 West Virginia Steel Co., Wheeling, W. Va.
 Wheeling Corrugating Co., Wheeling, W. Va.
 Whitaker-Glessner Co. (Steel Only), Wheeling, W. Va.
 Wood, Alan Iron & Steel Co. (Steel), 519 Arch, Phila., Pa.
 Wood, J. & Bros. Co. (Inc.), Conshohocken, Pa.
 Youngstown Iron & Steel Roofing Co., Youngstown, O.
 Youngstown Sheet & Tube Co., Youngstown, O.
 Zug Iron & Steel Co., 13th & Etna, Pittsburg, Pa.

Iron & Steel Fillers

Acme White Lead & Color W'ks, Detroit, Mich.
Atlas Paint Co. (Ltd.), 2638 Liberty av, Pitts-
burg, Pa.

BINSWANGER, B. & CO., 115 N 4th,
Phila., Pa.

Barrett-Lindeman Co., 1402 Frankford av.,
Phila., Pa.

Bowen's, S. Son, 4th & Venango, Phila., Pa.

Felton, Sibley & Co., 136 N 4th, Phila., Pa.

Forest City Paint & Varnish Co., Cleveland, O.

FRENCH, SAMUEL H. & CO., 4th &
Callowhill, Phila., Pa. (See adv. index,
end of book)

Grogan, H. F. & Co., 2113 E Sergeant, Phila.,
Pa.

Keystone Paint & Filler Co., Muncy, Pa.

King Paint Mfg. Co. (Iron), 27 Dunham pl,
Brooklyn, N. Y.

Lucas, John & Co., 322 Race, Phila., Pa.

National Fire-Proof Paint Corporation, Joliet,
Ill.

Sherwin & Williams Co., 104 Canal, Cleveland,
Ohio

Smith, Edw. & Co., 45 B'way, New York

Suydam, M. B. Co., 61st & Butler, Pittsburgh,
Pa.

Smith Paint & Varnish Co., 329 Chestnut, Mil-
waukee, Wis.

UNITED STATES GUTTA PERCHA
Co. (Rice's Corliss Vulcan), 12-30 Dudley,
Providence, R. I. (See adv. index, end of
book)

United States Paint Co., Williamsport, Pa.

Wadsworth-Howland Co., Ind. av. & 13th, Chi-
cago, Ill.

Wadsworth-Howland & Co., 82 Wash'n, Boston,
Mass.

WILBUR, JOB, CO. (Iron). Office,
Providence, R. I. Factory, Phila., Pa. (See
adv. index, end of book)

Willhelm, A. Co. (Liquid & Paste), Reading, Pa.

Wisconsin Graphite Co. (Graphite), Stevens
Point, Wis.

Iron & Steel Sheet

Allegheny Steel Co. (Steel Only), Farmers Bank
bldg, Pittsburgh, Pa.

AMERICAN ROLLING MILL CO., Mid-

dletown, O. (See adv. index, end of book)

AMERICAN SHEET & TIN PLATE

Co. (Bessemer & Open Hearth), Frick bldg,
Pittsburgh, Pa. (See adv. below)

Ashland Sheet Mill Co. (Iron & Steel), Ash-

land Steel Co., Ashland, Ky.

Carnahan Tin Plate & Sheet Co. (Steel), Canton,
O. Works: Greencastle, Ind.

Colorado Fuel & Iron Co., Denver, Colo.

Empire Iron & Steel Co. (Bessemer & Open
Hearth & Wrought Iron & 10 to 34 gauge),
Niles, O.

Follansbee Bros. Co. (Steel Only), Pitts-
burg, Pa.

Globe Iron Roofing & Corrugating Co., New-
port, Ky.

Goff, Horner & Co., Ltd. ("Muskingum" Bes-
semer & Open Hearth Steel), Frick bldg,
Pittsburgh, Pa.

Inland Steel Co. (Steel only), First National
Bank bldg, Chicago, Ill.

Licking Rolling Mill Co. (Iron), Covington, Ky.

McCullough Iron Co. (Black Steel & Iron), Wil-
mington, Del.

MERCHANT & EVANS CO. (Inc.)

(Black & Galvanized), 517 Arch, Phila., Pa.

(See adv. index & branch offices, end of book)

Muskingum Valley Steel Co., Zanesville, O.

Newport Rolling Mill Co., Newport, Ky.

Niles Iron & Steel Co. (Iron & Steel), Niles, O.

Parkersburg Iron & Steel Co., Parkersburg,
W. V., & Pittsburgh, Pa.

Phillips Sheet & Tin Plate Co., Clarksburg,
W. Va.

Portsmouth Steel Co. (Open Hearth Steel,
Black Sheets Unannealed & Blue Annealed,
13 up to 17 gauge, 54 ins. wide; 18 gauge,
48 ins. wide), Wheeling, W. Va. Works:
Portsmouth, O.

Sligo Iron & Steel Co. (Heavy & Medium
Grades), Connellsville, Pa.

Stark Rolling Mill Co. (Iron), Canton, O.

Taylor, N. & G. Co. (Gauges 6 to 16 U. S.
Standard), Mariners & Merchants bldg,
Philadelphia, Pa., & 1123 B'way, New York

Tennessee Coal, Iron & Railroad Co., Birming-
ham, Ala.

Ward-Dickey Steel Co. ("Dickey" Planished),
Indian Harbor, Ind.

Waynesburg Forge, Sheet & Tin Mills ("Ham-
mered," Iron & Soft Steel Sheets), Waynes-
burg, Pa.

Wheeling Steel & Iron Co., Wheeling, W. Va.

Whitaker-Glessner Co., Wheeling, W. Va.

Wilkes Rolling Mills Co. (Steel Gauges 16 to
28, Width 24" to 31", Lengths 60" to
120", Iron Gauges 16 to 24, 24" to 30"
Lengths, 60" to 101"), Sharon, Pa.

Wood, Alan Iron & Steel Co. (Basic Open
Hearth Steel), 519 Arch, Phila., Pa.

Wood, J. & Bros. Co. (Inc.), Conshohocken, Pa.

Wyoming Shovel Works (Steel Sheets & Light
Plates), Wyoming, Pa.

Youngstown Sheet & Tube Co. (Iron & Steel,
Specialty Double Refined Puddled Iron
Sheets), Youngstown, O.

Youngstown Iron & Steel Roofing Co. (Pud-
dled Iron & Specialty), Youngstown, O.

Zug Iron & Steel Co. ("Sable" Brand Iron &
Steel), Pittsburgh, Pa.

Iron & Steel Sheet (Electrical)

AMERICAN SHEET & TIN PLATE

Co., Frick bldg, Pittsburgh, Pa. (See adv.
below)

Empire Iron & Steel Co. (Open Hearth), Niles,
O.

Goff, Horner & Co., Ltd. ("Muskingum" Basic
& Acid O. H. Steel Sheets, Special Elec-
trical Analysis), Frick bldg, Pittsburgh, Pa.

Wood, Alan Iron & Steel Co., 519 Arch, Phila.,
Pa.

Wood, J. & Bros. Co. (Inc.), Conshohocken, Pa.

Youngstown Sheet & Tube Co., Youngstown, O.

Zug Iron & Steel Co., 13th & Etna, Pittsburgh,
Pa.

Iron & Steel Sheet (Galvanized)

AMERICAN ROLLING MILL CO., Mid-

dletown, O. (See adv. index, end of book)

AMERICAN SHEET & TIN PLATE

Co., Frick bldg, Pittsburgh, Pa. (See adv.
below)

A ROOFING MATERIAL

to give long service and complete satisfaction, must be capable of rapid expansion and contraction. Without these two qualities it will soon be rendered practically worthless because of breaks and buckling. In the making of



ROOFING TIN

we carefully figure both these factors, and the result is a Terne Plate that offers the greatest protection. These qualities, in conjunction with its well known pliability and perfect coating, have made MF Ternes the plates they are and the ones you need if you want the best to be had. Send for our booklet "From Underfoot to Overhead" if you would like to know how real Roofing Tin is made. It is free.

AMERICAN SHEET & TIN PLATE COMPANY,

FRICK BUILDING,

PITTSBURGH, PA.

Ashland Sheet Mill Co. (Iron & Steel), Ashland, Ky.
 Bannantine Galvanized Iron Co., 113 Souldard, St. Louis, Mo.
BERGER MFG. CO., Main Office & Works, Canton, O. (See adv. index & branch offices, end of book)
 Empire Iron & Steel Co. (Bessemer & Open Hearth Steel & Wrought Iron), Niles, O.
 Globe Iron Roofing & Corrugating Co., New-
 port, Ky.
 Goff, Horner & Co., Ltd. ("Muskingum" Iron & Steel), Frick bldg, Pittsburg, Pa.
 McCullough Iron Co. (Iron & Steel), Wilmington, Del.
 McVoy, John & Co., 25 Michigan, Chicago, Ill.
 Marshall Bros. & Co., Girard av & Front, Phila., Pa.
MERCHANT & EVANS CO. (Inc.) (Black & Galvanized), 517 Arch, Phila., Pa. (See adv. index & branch offices, end of book)
 Niles Iron & Steel Co. (Iron & Steel), Niles, O.
O'DONNELL, JAMES (Broker), 32 La Salle, Chicago, Ill.
 Ohio Galvanizing & Mfg. Co. (Steel Only), Niles, O.
SCAIFE, WM. B. & SONS CO., 221 1st av, Pittsburg, Pa. (See adv. index, end of book)
 Waynesburg Forge Sheet & Tin Mills, Waynes-
 adv. index & branch offices, end of book)
 Wheeling Corrugating Co., Wheeling, W. Va.
 Whitaker-Glessner Co. (Steel Only), Wheeling, W. Va.
 Wood, Alen Iron & Steel Co. (Basic Open Hearth Steel), 519 Arch, Phila., Pa.
 Youngstown Sheet & Tube Co. (Steel), Youngs-
 town, O.
 Youngstown Iron & Steel Roofing Co., Youngs-
 town, O.
 Zug Iron & Steel Co., 13th & Etna, Pitts-
 burg, Pa.

Iron & Steel Skelp

Atlantic Iron & Steel Co., New Castle, Pa.
 Brooke, E. & G. Iron Co. (Iron Skelp), Birds-
 boro, Pa.
 Clearfield Steel & Iron Co., Empire bldg, Pitts-
 burg, Pa., & Clearfield, Pa.
 Cohoes Rolling Mill Co. (Iron Only), Cohoes,
 N. Y.
 Eleanor Iron Co. (Iron), Hollidaysburg, Pa.
 Glasgow Iron Co., Pottstown, Pa.
 Harrisburg Pipe & Pipe Bending Co. (Boiler
 Tube Skelp), Harrisburg, Pa.
 LaBelle Iron Works (Steel Only), Steuben-
 ville, O.
 Longmead Iron Co. (Iron), Conshohocken, Pa.
 Moorhead Bros. & Co., Inc., Sparpsburg, Pa.
 Parkersburg Iron Co. (Charcoal Boiler-Tube
 Iron Skelp), Parkersburg, Pa.
 Potts Bros. Iron Co. (Iron), Pottstown, Pa.
 Shenango Iron & Steel Co. (Iron Skelp), Pitts-
 burg, Pa.
 Susquehanna Iron & Steel Co. (Iron Only),
 Columbia, Pa.
 Syracuse Chilled Plow Co. (Steel), Syracuse,
 N. Y.
 United Steel Co. (Steel), Canton, O.
 West End Rolling Mill Co. (Iron Only),
 Lebanon, Pa.
 Wheeling Steel & Iron Co., Wheeling, W. Va.
 Youngstown Sheet & Tube Co., Youngstown, O.

Iron & Steel (Swedish)

AMERICAN STEEL & WIRE CO.,
 The Rookery, Chicago, Ill. (See adv. index
 & branch offices, end of book)
 Brown-Wales Co. (Norway Iron), 83 Purchase,
 Boston, Mass.
 Dana & Co., 32 B'way, New York
 Dodge, Haley & Co., Boston, Mass.
 Harvey, Arthur C. Co. (Iron), 374 Congress,
 Boston, Mass.
 Milne, A. & Co. (Norway Iron & Steel), 1
 B'way, New York, & 8 Oliver, Boston, Mass.
 Nash, Geo. & Co. (Non-Magnetic Hot and Cold
 Rolled Norway Iron & Acme Resistance &
 Bending Wire for Electrical Purposes, Steel
 Importers, "Seebohm & Deekstahl's" Self-
 Hardening & Tool Steel), 217 Pearl, N. Y.
 Pierson & Co., 29 B'way, New York
 Potts, Horace T. & Co., 316 N 3d, Phila., Pa.
 Wheelock, Lovejoy & Co., 23 Cliff, New York, &
 35 Oliver, Boston, Mass.
 White-Good Steel Co., Monadnock blk, Chicago,

*Irons (Bar)

RICHARDS MFG. CO., Aurora, Ill.
 (See adv. index & branch offices, end of book)

Irons (Cable)

Nagel, W. G. Electric Co., Toledo, O.

Irons (Calking)

ANDERSON FORGE & MACHINE CO.,
 271 Guoin, Detroit, Mich. (See adv. index,
 end of book)

Braunsdorf-Mueller Co., Elizabeth, N. J.
 Drew, C. & Co., Kingston, Mass.
 Kraeuter & Co., Newark, N. J.
 Mack & Co., Rochester, N. Y.
 Mueller, H. Mfg. Co., Decatur, Ill.
 Stortz, Jno. & Son, 210 Vine, Phila., Pa.
 White, L. & I. J. Co., Buffalo, N. Y.
 Wilcox, Crittenden & Co., Middletown, Conn.

Irons (Corner & Brace)

American Hardware Mfg. Co., Ottawa, Ill.
 Brewer Bros. (Wrought), 614 Filbert, Phila.,
 Pa.
 Hazel Atlas Glass Co., Wheeling, W. Va.
 McKinney Mfg. Co., Allegheny, Pa.
 Old Dominion Iron & Nail Works Co., Rich-
 mond, Va.
 Pratt & Letchworth Co., Buffalo, N. Y.
RICHARDS MFG. CO., Aurora, Ill.
 (See adv. index & branch offices, end of book)
 Sargent & Co., New Haven, Conn., & 94 Center,
 New York
STANLEY WORKS (Wrought Steel),
 New Britain, Conn., & 79 Chambers, New
 York. (See adv. index, end of book)
WILCOX MFG. CO., Aurora, Ill. (See
 adv. index, end of book)

Irons (Curling)

Arcade Mfg. Co. ("Eulalia" & "Ideal"), Free-
 port, Ill.
 Cassady-Fairbank Mfg. Co., 6106 La Salle, Chi-
 cago, Ill.

Irons (Dog)

American Iron & Steel Mfg. Co., Lebanon, Pa.
 Plenger & Henger Mfg. Co., 11th & Hebert,
 St. Louis, Mo.
 Smith, Thos. & Co., Worcester, Mass.
 Southern Plow Co., Columbus, Ga.

Irons (Extension Brace)

Brewer Bros. (Wrought), 614 Filbert, Phila.,
 Pa.

Irons (Hanger)

(See Hangers, Joist)

*Irons (Hatch Door)

**SEDGWICK MACHINE WORKS (Au-
 tomatic),** Poughkeepsie, N. Y., & 128 Liberty,
 New York. (See adv. index, end of book)

Irons (Pinking)

Johnson, Wm. (Hedenberg Works), Newark,
 N. J.
 Kraeuter & Co., Newark, N. J.

Irons (Plane)

Buck, Chas. Edge Tool Co., Millbury, Mass.
 Chapin-Stephens Co., Pine Meadow, Conn.
 Doscher Plane & Tool Co., Saugatuck, Conn.
 New England Specialty Co., North Easton,
 Mass.
 Ohio Tool Co., Columbus, O.
 Sandusky Tool Co., Sandusky, O.
 Stanley Rule & Level Co., New Britain, Conn.
 White, L. & I. J. Co., Buffalo, N. Y.

Irons (Polishing)

(See Sad Irons)

Irons (Porch Post)

National Novelty Corp., 826 B'way, New York
**NATIONAL SUPPLY CO., 7 W Lom-
 bard,** Baltimore, Md. (See adv. index, end
 of book)
 Penn Hardware Co., Reading, Pa. (See adv. index,
 end of book)
 Wrightsville Hdw. Co., Wrightsville, Pa.

Irons (Sash Cord)

Peck, Stow & Wilcox Co., Southington, Conn.
 Penn Hardware Co., Reading, Pa.
 Reading Hardware Co., Reading, Pa.
 Russell & Erwin Mfg. Co., New Britain, Conn.,
 & 45 Chambers, N. Y.
 Sargent & Co., New Haven, Conn., & 94 Center,
 N. Y.
 Stanley Rule & Level Co., New Britain, Conn.,
 & 107 Chambers, N. Y.
 Union Mfg. Co., New Britain, Conn.

Irons (Step)

(See Pole Steps)

Irons (Tuyere)

Arcade Mfg. Co. ("Fitzsimmons"), Freeport, Ill.
 Barber Mfg. Co., Ashtabula, O.
 Boynton & Plummer, Worcester, Mass.
 Comstock, Geo. S. (Fish's Patent Ball Tuyeres),
 Mechanicsburg, Pa.
 Huntsville Foundry & Machine Works, Hunts-
 ville, Ala.
 Illinois Iron & Bolt Co., Carpentersville, Ill.
 Kinsley Iron & Machine Co., Canton, Mass.
 National Novelty Corp., 826 B'way, New York
 Pleuger & Henger Mfg. Co., 11th & Hebert,
 St. Louis, Mo.
 Roots, P. H. & F. M. Co., Connersville, Ind.
 Silver Mfg. Co. ("Dole & Duck Nest"), Salem,
 Mass.
 Swett, A. L. Iron Works, Medina, N. Y.
 Wagner Mfg. Co., Sidney, O.
 Weyburn Co. ("Rockford Ideal"), Rockford,
 Ill.

Irons (Waffle)

Griswold Mfg. Co., Erie, Pa.

Irons (Wall)

American Iron & Steel Mfg. Co., Lebanon, Pa.
AMOS, CHARLES & CO., 94 W
 Larned, Detroit, Mich. (See adv. index,
 end of book)
 Metropolitan Bolt Co., 367 Congress, Boston,
 Mass.
 Old Dominion Iron & Nail Works Co., Rich-
 mond, Va.

Isinglass

American Glue Co. ("Cape Ann"), Boston,
 Mass.
 Armour Ammonia Works ("Armour's"), 205 La
 Salle, Chicago, Ill.
 Gloucester Isinglass & Glue Co., Gloucester,
 Mass.
 Haskins, Leander M. (For Brewers, etc.), 10
 Long Wharf, Boston, Mass.
 Howe & French Isinglass Co. ("Ripley"), 89
 State, Boston, Mass.
 Tarr's Isinglass Co., Gloucester, Mass.

Jacks (Automobile)

(See also Jacks, Wagon; also Jacks, Various
 Kinds)

Batavia Clamp Co. ("Colt's-U-Bar"), Batavia,
 N. Y.
 Buckeye Jack Mfg. Co. ("Buckeye"), Louisville,
 Ohio
 Cook's Standard Tool Co. ("Standard"), Kala-
 mazoo, Mich.
 Covert Mfg. Co. ("Covert's Victor"), West Troy,
 N. Y.
DUFF MFG. CO. ("Barrett's"), 405
 Marion av, Allegheny, Pa. (See adv. on fol-
 lowing page)
 Eureka Mower Co. ("Eureka No. 3"), Utica,
 N. Y.
 Excelsior Supply Co. ("U. S.," "Peerless"), 235
 Randolph, Chicago, Ill.
 Globe Jack Co. ("Globe"), 827 N 4th, Phila-
 delphia, Pa.
 Jersey Brake Co. ("Searle's Folding"), 56
 Columbia, Newark, N. J.
 Joyce-Cridland Co., 329 Linden av, Dayton, O.
 Lane Bros. ("Lane's"), Poughkeepsie, N. Y.
 Leather & Brass Mfg. Co. (Pneumatic), Auburn,
 N. Y.
 Oliver Mfg. Co. ("E-Z," "Peerless," "New
 Sampson"), 203 S Desplaines, Chicago Ill.
 Pratt, Wm. E. Mfg. Co. ("Chicago"), 91 Lake,
 Chicago, Ill.
 Roth Jack & Tool Co. ("Roth" Screw Ball
 Bearing), 68 William, New York
 Shawver Co. ("Springfield"), Springfield, Ohio
 Ultra Pump & Power Co., Auburn, N. Y.
 Wray Pump & Register Co. (Pneumatic), 191
 Mill, Rochester, N. Y.

***Jacks (Bridge)**

FAIRBANKS, MORSE & CO., Frank-
lin & Monroe, Chicago, Ill. (See adv. in-
dex & branch offices, end of book)

Jacks (Car)

Boyer-Radford & Gordon Tank & Pump Co.
("Maxon"), Dayton, O.
Brill, J. G. Co. ("Hercules"), 63d & Woodland,
Philadelphia, Pa.
Buda Foundry & Mfg. Co., Harvey, Ill. &
Railway Exchange bldg, Chicago, Ill.
Cook's Standard Tool Co. ("Standard", Trip &
Automatic Lowering)
DUFF MFG. CO. ("Barrett's"), 405
Marion av, Allegheny, Pa. (See adv. below)
Joyce-Cridland Co., 329 S Linden av, Dayton, O.
Lovejoy Tool Works ("Car Inspection"), 90
Ohio, Chicago, Ill.
Maxon-Miller Jack Co. (Improved Maxon-Mil-
ler Lever), Huntington, W. Va.
Norton, A. O., 286 Congress, Boston, Mass.
Roth Jack & Tool Co. ("Roth" Screw Ball
Bearing), 68 William, New York
Templeton, Kenly & Co. (Ltd.), ("Simplex"),
611 S Morgan, Chicago, Ill.

Jacks (Car Replacing)

Boyer-Radford & Gordon Tank & Pump Co.
("Maxon"), Dayton, O.
Buda Foundry & Mfg. Co., Railway Exchange
bldg, Chicago, Ill. Works: Harvey, Ill.
Joyce-Cridland Co., 329 S Linden av, Dayton, O.
Kalamazoo Railway Supply Co., Kalamazoo,
Mich.
Norton, A. O. (Ball Bearing), 286 Congress,
Boston, Mass.
Pearson Jack Co. ("Pearson"), Boston, Mass.

Jacks (Carriage)

(See Jacks, Wagon.)

Jacks (Gas Pumping)

AMERICAN WELL WORKS, Aurora,
Ill. (See adv. index & branch offices, end of
book)
Massey & Black, Butler, Pa.

Jacks (Geared)

AMERICAN WELL WORKS, Aurora,
Ill. (See adv. index & branch offices, end of
book)
Joyce-Cridland Co., 329 S Linden av, Dayton, O.
Sparta Iron Works Co., Sparta, Wis.

Jacks (House Moving)

American Skein & Foundry Co. ("A. S. & F.
Co." Jack Screws), Racine, Wis.
Boyer-Radford & Gordon Tank & Pump Co.
("Maxon"), Dayton, O.
BROWN BROS MFG. CO., W 22d
& Campbell av, Chicago, Ill. (See adv. in-
dex, end of book)
DUFF MFG. CO. ("Barrett's"), 405
Marion av, Allegheny, Pa. (See adv. below)
Harvey, H. H., 608 Atlantic av, Boston, Mass.
Illinois Iron & Bolt Co., Carpentersville, Ill.
Joyce-Cridland Co., Dayton, O.
Kinsley Iron & Machine Co., Canton, Mass.
Maxon-Miller Jack Co. (Improved "Maxon-Mil-
ler" Lever), Huntington, W. Va.
Norton, A. O., 286 Congress, Boston, Mass.
Swett, A. L. Iron Works, Medina, N. Y.
Woolly Foundry & Machine Co., Anderson,
Ind.

Jacks (Hydraulic)

AMERICAN WELL WORKS, Aurora,
Ill. (See adv. index & branch offices, end of
book)

ANDERSON FORGE & MACHINE CO.,
271 Guoin, Detroit, Mich. (See adv. index,
end of book)

Burroughs, Chas., 141 Commerce, Newark, N. J.
City Machine Co., Cleveland, O.

Dieneit & Eisenhardt ("Reliance"), 1308 N
Howard, Philadelphia, Pa.
Dudgeon, Richard, 24 Columbia, New York

ELMER, CHAS. F. ENGINEERING
Works, c Fulton & N Sangamon, Chicago, Ill.
(See adv. index, end of book)

FAIRBANKS, MORSE & CO., Frank-
lin & Monroe, Chicago, Ill. (See adv. in-
dex & branch offices, end of book)

Henderer's, A. L. Sons, Wilmington, Del.
Irving Mfg. & Tool Co. (J. F. McCoy Co., Prop.),
159 Chambers, N. Y.

Joyce-Cridland Co., Dayton, O.
Justice, Philip S. & Co. ("Reliance"), 421
Chestnut, Philadelphia, Pa.

Kalamazoo Railway Supply Co., Kalamazoo,
Mich.
Wallace Supply Co., 56 5th av, Chicago, Ill.

WATSON-STILLMAN CO., 26 Cort-
land, New York. (See adv. index, end of
book)

***Jacks (Hydraulic, Concrete
Testing)**

RANSOME CONCRETE MACHINERY
Co., Dunellen, N. J. (See adv. index, end
of book)

***Jacks (Ladder & Scaffold Sup-
port)**

RICHARDS MFG. CO., Aurora, Ill.
(See adv. index & branch offices, end of book)

Jacks (Lifting)

Acme Ball Bearing Co. (Ball Bearing), 20 Nas-
sau, New York
Barth Mfg. Co. ("Barth-Weiler" Reversible
Lever, Malleable Iron & Cast Steel), Mil-
waukee, Wis.

Boyer-Radford & Gordon Tank & Pump Co.
("Maxon"), Dayton, O.
Buckeye Jack Mfg. Co. ("Buckeye"), Louis-
ville, O.

Buda Foundry & Mfg. Co., Railway Exchange
bldg, Chicago, Ill. Works: Harvey, Ill.
Contractors' Plant Mfg. Co., Buffalo, N. Y.

De Weese, F. M. ("Mosher"), Chillicothe, O.
Dorner Mfg. Co., Monadnock blk, Chicago, Ill.
DUFF MFG. CO. ("Barrett's"), 405
Marion av, Allegheny, Pa. (See adv. below)

Eureka Mower Co., Utica, N. Y.
FAIRBANKS, MORSE & CO., Frank-
lin & Monroe, Chicago, Ill. (See adv. in-
dex & branch offices, end of book)

Hagerstown Foundry Co., Hagerstown, Md.
Harvey, H. H., 608 Atlantic av, Boston, Mass.
Henderer's, A. L. Sons, Wilmington, Del.

Hess-Snyder Co., Massillon, O.
Hine-Watt Mfg. Co. ("Columbia"), 60 Wabash
av, Chicago, Ill.

Irving Mfg. & Tool Co. (J. F. McCoy Co.,
Prop.), 159 Chambers, New York

Joyce-Cridland Co. (Gear Levered), Dayton, O.
Kalamazoo Railway Supply Co., Kalamazoo,
Mich.

Kenosha Jack Mfg. Co., Kenosha, Wis.
Klemm, E. R., 103 W Monroe, Chicago, Ill.

Locke Regulator Co., Salem, Mass.
Maxon-Miller Jack Co. (Improved "Maxon-Mil-
ler" Lever), Huntington, W. Va.

Newell, J. F. & Co., Gardiner, Me.
New London Vise Works, New Yondon, Conn.
New Winona Mfg. Co. ("Hay King"), Winona,
Minn.

Norton, A. O. (Ball Bearing Screw), 288 Con-
gress, Boston, Mass.

Oliver Mfg. Co. ("Peerless" "Samson"
"Oliver," "Practical," "E. Z"), 203 S.
Desplaines, Chicago, Ill.

Pearson Jack Co. (Pearson), Boston, Mass.
Peerless Lifting Jack Co., Anderson, Ind.

Pratt, Wm. E. Mfg. Co. ("Acme"), 91 Lake,
Chicago, Ill.

Royal Machine Co., Newark, N. J.
Schwartz, M. & Son, Chillicothe, O.

Shaw Engineering & Mfg. Co. (Adjustible),
Newark, N. J.

Sheffer, B. F., Glen Rock, Pa.
Shawver Co. ("Springfield"), Springfield, Mass.

Sheffer, B. F., Glen Rock, Pa.
STANDARD SCALE & SUPPLY CO.,
243 Water, Pittsburg, Pa. (See adv. index,
end of book)

Trenton Malleable Iron Co. ("Krackerjack"),
Trenton, N. J.

U. S. Jack Co. ("U. S." Jack), 35 S. Claremont
av, Chicago, Ill.

Ultra Pump & Power Co. ("Ultra" Pneumatic),
Auburn, N. Y.

Weiler & Randolph, Sioux City, Ia.
Wray Pump & Register Co. (Inc.) ("Wray
Log" Pneumatic), 191 Mill, Rochester, N. Y.

Jacks (Locomotive)

American Skein & Foundry Co. ("A. S. & F.
Co." Jack Screws), Racine, Wis.

Boyer-Radford & Gordon Tank & Pump Co.
("Maxon"), Dayton, O.

DUFF MFG. CO. ("Barrett's"), 405
Marion av, Allegheny, Pa. (See adv. below)

Joyce-Cridland Co., 329 S. Linden av, Dayton, O.
Illinois Iron & Bolt Co. (Bell Base), Carpenters-
ville, Ill.

Maxon-Miller Jack Co. (Maxon-Miller Lever),
Huntington, W. Va.

Turner, Jno. T. Lowell, Mass.

Jacks (Log)

ALLIS-CHALMERS CO., Milwaukee,
Wis. (See adv. index & branch offices, end
of book)

Burnett Foundry & Machine Works, Ltd., Pe-
toskey, Ind.

Curtis & Co. Mfg. Co., St. Louis, Mo.
Diamond Iron Works ("Independent" Iron
Frame), Minneapolis, Minn.

DUFF MFG. CO. ("Barrett's"), 405
Marion av, Allegheny, Pa. (See adv. below)

Filler & Stowell Co., Home Office, Milwaukee,
Wis.

Garratt, W. T. & Co. (Inc.), Fremont &
Natoma, San Francisco, Cal.

Gilchrist Bros. (The Hercules), South Bend, Ind.
Hill, W. E. & Co., Kalamazoo, Mich.

Joyce-Cridland Co., Dayton, O.
LANE MFG. CO., Montpelier, Vt. (See
adv. index, end of book)

Maxon-Miller Jack Co. ("Maxon" Lever),
Huntington, W. Va.

Moltz, Jacob J., Williamsport, Pa.
Murray, D. J. Mfg. Co. (Iron Frame, etc.),
Wausau, Wis.

Phoenix Mfg. Co., Eau Claire, Wis.
Roth Jack & Tool Co. ("Roth" Screw Ball
Bearing), 68 William, New York

Southern Engine & Boiler Works, Jackson, Tenn.
STANDARD SCALE & SUPPLY CO.,
243 Water, Pittsburg, Pa. (See adv. index,
end of book)

Turner, Jno. T., Lowell, Mass.

BARRETT TRACK JACKS. DUFF ROLLER BEARING SCREW JACKS

Lifting Jacks for Every Possible Purpose. The World's Standard.

LARGEST MAKERS OF JACKS IN THE WORLD.

SEND FOR CATALOG.

THE DUFF MANUFACTURING COMPANY,
Works, ALLEGHENY, PA. Pittsburg, Pa.

Jacks (Pulling)

Pearson Jack Co. (Pearson Ratchet), Boston, Mass.

Jacks (Pumping)

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)

Baker Mfg. Co., Evansville, Wis.
Buckeye Engine & Foundry Co., Joliet, Ill.
Field-Brundage Co., Jackson, Mich.
International Harvester Co. of America, 7 Monroe, Chicago, Ill., & Auburn, N. Y.
Lazier Gas Engine Co. (Combination), Buffalo, N. Y.
Myers, F. E. & Bro. (Combination), Ashland, O.

Jacks (Ratchet)

Boyer-Radford & Gordon Tank & Pump Co. ("Maxon" Lever & Ratchet Screw), Dayton, O.
Buda Foundry & Mfg. Co., Railway Exchange bldg., Chicago, Ill. Works: Harvey, Ill.
DUFF MFG. CO. ("Barrett's"), 405 Marion av., Allegheny, Pa. (See adv. on preceding page)
Illinois Iron & Bolt Co., Carpentersville, Ill.
Joyce-Cridland Co., Dayton, O.
Justice, Philip S. & Co. (Ball Bearing Screw), 421 Chestnut, Phila., Pa.
Kalamazoo Railway Supply Co. (Also Friction), Kalamazoo, Mich.
Norton, A. O. (Ball Bearing Screw), 286 Congress, Boston, Mass.
Pearson Jack Co. (Pearson Ratchet Journal), Boston, Mass.
Turner, Jno. T. (Railroad), Lowell, Mass.
Vicksburg Mfg. Co., Vicksburg, Ind.

Jacks (Robie)

Riehle Bros. Testing Machine Co., 1424 N 9th, Philadelphia, Pa.

Jacks (Screw)

American Skein & Foundry Co. ("A. S. & F. Co." Jack Screws), Racine, Wis.
Barber Mfg. Co., Ashtabula, O.
Barth Mfg. Co. ("Barth-Weiler" Reversible Lever, Malleable Iron & Cast Steel), 338 Milwaukee, Milwaukee, Wis.
Boyer-Radford & Gordon Tank & Pump Co. (Ratchet Screw), Dayton, O.
BROWN BROS. MFG. CO., 22d & Campbell, Chicago, Ill. (See adv. index, end of hook)
Chapman Jack Co., Cleveland, O.
Contractors' Plant Mfg. Co., 129 Erie, Buffalo, N. Y.
Darragh, M. & Co., West Bridgewater, Pa.
Dudgeon, Richard, 24 Columbia, New York
DUFF MFG. CO. ("Barrett's" Differential, etc.), 405 Marion av., Allegheny, Pa. (See adv. on preceding page)
FAIRBANKS, MORSE & CO., Franklin & Monroe, Chicago, Ill. See adv. index & branch offices, end of book
Harvey, H. H., 608 Atlantic av., Boston, Mass.
Illinois Iron & Bolt Co. (all kinds), Carpentersville, Ill.
Irving Mfg. & Tool Co. (J. F. McCoy Co., Prop.), 159 Chambers, New York
Joyce-Cridland Co., Dayton, O.
Justice, Philip S. & Co. (Ball Bearing), 421 Chestnut, Phila., Pa.
Kalamazoo Railway Supply Co., Kalamazoo, Mich.
Kinsley Iron & Machine Co., Canton, Mass.
Knowles Loom Works, Worcester, Mass.
Lovejoy Tool Works ("Ball's Telescopic & Ratchet Screw"), 96 Ohio, Chicago, Ill.
McLagon Foundry Co., New Haven, Conn.
Millers Falls Co., Millers Falls, Mass., & 28 Warren, New York
Minneapolis Plow Co., Minneapolis, N. Y.
Newell, J. F. & Co., Gardiner, Me.
New London Vise Works ("Peerless" Bell Bottom), New London, Conn.
Niles-Bement-Pond Co., 111 B'way, New York
Norton, A. O. (Ball Bearing Ratchet), 286 Congress, Boston, Mass.
Ohl, Geo. A. & Co. (Frictionless), 157 Oraton, Newark, N. J.
Oliver Mfg. Co. ("E-Z"), Chicago, Ill.
Parker Hoist & Machine Co., 971 N Francisco av., Chicago, Ill.
Pearson Jack Co. ("Pearson"), Boston, Mass.
Peck, Stow & Wilcox Co., Southington, Conn.
Racine Steel & Iron Mfg. Co., Racine, Wis.
Riehle Bros. Testing Machine Co. ("Riehle-Robie" Ball Bearing), 1424 N 9th, Phila., Pa.

Roth Jack & Tool Co. ("Roth" Screw Ball Bearing), 68 William, New York
RUMSEY & CO. (Ltd.) (Cast & Wrought Iron Jack Screws), Seneca Falls, N. Y. (See adv. index & branch offices, end of book)
Starrett, L. S. Co., Athol, Mass.
Turner, Jno. T. ("Ball's" Telescopic), Lowell, Mass.
WATSON-STILLMAN CO., 26 Cortlandt, N. Y. (See adv. index, end of book)

Jacks (Stone)

Barth Mfg. Co. ("Barth-Weiler" Reversible Lever, Malleable Iron & Cast Steel), 338 Milwaukee, Milwaukee, Wis.
Boyer-Radford & Gordon Tank & Pump Co. ("Maxon"), Dayton, O.
Brunner & Lay, 133 W Polk, Chicago, Ill.
DUFF MFG. CO. ("Barrett's"), 405 Marion av., Allegheny, Pa. (See adv. on preceding page)
Harvey, H. H., 608 Atlantic av., Boston, Mass.
Irving Mfg. & Tool Co. (J. F. McCoy Co., Prop.), 159 Chambers, New York
Joyce-Cridland Co., Dayton, O.
Kelly, L. J., Albany, N. Y.
Klemm, E. R., 103 W Monroe, Chicago, Ill.
Lincoln Iron Works (Geared Lifting), Rutland, Vt.
Maynard, C. T. & Co., Fairhaven, Vt.
O'Leary, Arthur J. & Sons Co., 130 W Lake, Chicago, Ill.
Oliver Mfg. Co., 203 S Desplaines, Chicago, Ill.
Parker Hoist & Machine Co., 971 N Francisco av., Chicago, Ill.
Riehle Bros. Testing Machine, 1424 N 9th, Phila., Pa.
Roth Jack & Tool Co. ("Roth" Screw Ball Bearing), 68 William, New York

Jacks (Track)

Barth Mfg. Co. ("Barth-Weiler" Reversible Lever, Malleable Iron & Cast Steel), 338 Milwaukee, Milwaukee, Wis.
Boyer-Radford & Gordon Tank & Pump Co. (Lever & Ratchet Screw), Dayton, O.
Buda Foundry & Mfg. Co., Railway Exchange bldg., Chicago, Ill. Works: Harvey, Ill.
Cook's Standard Tool Co. ("Standard" Trip & Automatic Lowering), Kalamazoo, Mich.
DUFF MFG. CO. ("Barrett's"), 405 Marion av., Allegheny, Pa. (See adv. on preceding page)
FAIRBANKS, MORSE & CO., Franklin & Monroe, Chicago, Ill. (See adv. index & branch offices, end of hook)
Henderer's, A. L. Sons, Wilmington, Del.
Joyce-Cridland Co., Dayton, O.
Justice, Philip S. & Co. (Sure Drop), 421 Chestnut, Philadelphia, Pa.
Kalamazoo Railway Supply Co., Kalamazoo, Mich.
Maxon-Miller Jack Co. ("Maxon-Miller" Lever), Huntington, W. Va.
Morden Frog & Crossing Works, The Rookery, Chicago, Ill.
Norton, A. O. (Sure Drop), 286 Congress, Boston, Mass.
Pettibone, Mulliken & Co. ("Jenne"), 204 Dearborn, Chicago, Ill.
Pittsburg Tool & Drop Forge Co. ("Cheswick"), Works, Cheswick, Pa.
Roth Jack & Tool Co. ("Roth" Screw Ball Bearing), 68 William, New York
Verona Tool Works, Murland bldg., Pittsburg, Pa., & Verona, Pa.
Vicksburg Mfg. Co., Vicksburg, Mich.

Jacks (Traveling)

Joyce-Cridland Co., Dayton, O.
Norton, A. O. 286 Congress, Boston, Mass.
Turner, John T., Lowell, Mass.

Jacks (Wagon)

(See also Jacks, Automobile)

American Skein & Foundry Co. ("A. S. & F. Co." Jack Screws), Racine, Wis.
Arcade Mfg. Co. ("Schofield" & "Chicago"), Freeport, Ill.
Barber Mfg. Co., Ashtabula, O.
Barth Mfg. Co. ("Barth-Weiler" Reversible Lever, Malleable Iron & Cast Steel), 338 Milwaukee, Milwaukee, Wis.
Boston & Lockport Block Co. ("Lockport"), Boston, Mass.
Boyer-Radford & Gordon Tank & Pump Co. (Buggy), Dayton, O.
Buckeye Mfg. Co., Anderson, Ind.
Covert Mfg. Co. ("Covert's Victor"), West Troy, N. Y.

Eureka Mower Co. (Steel & Malleable Iron), Utica, N. Y.
Firnald Mfg. Co., North East, Pa.
Hunt, Helm, Ferris & Co. ("Star"), Harvard, Ill.
Irving Mfg. & Tool Co. (J. F. McCoy Co., Prop.), 159 Chambers, New York
Jersey Brake Co. ("Searles" Automatic & Carriage, Newark, N. J.
Joyce-Cridland Co., 329 S Linden av., Dayton, O.
Lane Bros. Co. (Steel), Pongheepsie, N. Y.
Oliver Mfg. Co. ("Peerless" "Samson" "Oliver" Practical), Chicago, Ill.
Pioneer Pole & Shaft Co. ("Winner"), Piqua, O.
Pratt, Wm. E. Mfg. Co., 91 Lake, Chicago, Ill.
RICHARDS MFG. CO. ("Tiger"), Aurora, Ill. (See adv. index & branch offices, end of book)
Robertson, O. H., Forestville, Conn.
Silver Mfg. Co. (Self Locking, Plain Screw), Salem, O.

***Jacks (Wrecking)**

FAIRBANKS, MORSE & CO., Franklin & Monroe, Chicago, Ill. (See adv. index & branch offices, end of book)

Jail & Cell Work (Steel)

Adams Steel & Wire Works, Joliet, Ill.
AMOS, CHARLES & CO., 94 W Larned, Detroit, Mich. (See adv. index, end of hook)
Barnum, E. T., Wire & Iron Works (Steel Cells), Detroit, Mich.
Belmont Iron Works, 22d & Washn av., Phila., Pa.
CHAMPION IRON CO., Kenton, O. (See adv. index, end of book)
CITY FORGE & IRON WORKS (Andrew Plocher, Prop.), Dayton, O. (See adv. index, end of book)
Columbia Iron & Wire Works Co., Canton, O.
Covington Architectural Iron Works, Covington, Ky.
Crown Iron Works Co., Minneapolis, Minn.
Diebold Safe & Lock Co. (Steel Cells Only), Canton, O.
HALL'S SAFE CO., Main Office & Works, Spring Grove av., Cincinnati, O. (See adv. index, end of book)
Herring-Hall-Marvin Safe Co., 400 B'way, N. Y. Works: Hamilton, O.
National Prison & Vault Engineering Co. (Engineers, Contractors and Mfrs.), 921 F, N W, Washington, D. C.
OHIO STRUCTURAL IRON CO. (Cells), Sandusky, O. (See adv. index, end of book)
Ornamental Iron & Wire Co. (Inc.), Portsmouth, Va.
Panly Jail Building Co., 2215 DeKalh, St. Louis, Mo.
Phoenix Iron Works, Portland, Oreg.
Pneumatic Safe Vault & Jail Co., Chattanooga, Tenn.
REMPPIE, WM. F. CO., Reading, Pa., & 1506 Sansom, Phila., Pa. (See adv. index, end of book)
SMITH, F. P., WIRE & IRON WORKS, 100 Lake, Chicago, Ill. (See adv. index, end of hook)
Snead Arch'l Iron Works, Louisville, Ky.
Stewart Jail Works Co., 710 E 3d, Cincinnati, O.
Turner & Brownlie (Steel Cages), Des Moines, Ia.
Van Doru Iron Works Co., 2685 E 79th, Cleveland, O.
Western Iron Works, 123 Beale, San Francisco, Cal.

Japans

(See Varnish Mfrs.)

Japans (Baking)

Ajax Paint Co. ("Woodpecker"), Indianapolis, Ind.
Akron Varnish Co., Akron, O.
Chicago Varnish Co., Chicago, Ill.
FRENCH, SAMUEL H. & CO., 4th & Callowhill, Phila., Pa. (See adv. index, end of hook)
Forest City Paint & Varnish Co., Cleveland, O.
Lucas, Jno. & Co., 322 Race, Phila., Pa.
Moller & Schumann, B'way & Marcy av., Brooklyn, N. Y.
STANDARD VARNISH WORKS, 29 B'way, New York. (See adv. index & branch offices, end of book)

THOMSON WOOD FINISHING CO.,
115 N 4th, Phila., Pa. (See adv. index,
end of book)

Wilhelm, A. Co., Reading, Pa.
Woodhouse, Samuel F., Unity & Franklin,
Philadelphia, Pa.

Jars (Battery)

(See Battery Jars)

Jars (Fruit)

Ball Bros. Glass Mfg. Co., Muncie, Ind.
Clyde Glass Works, Clyde, N. Y.
Consolidated Fruit Jar Co. ("Boyd's" Porcelain
Lined & "Mason"), New Brunswick, N. J.,
& 290 B'way, New York
Co-Operative Flint Glass Co., Beaver Falls, Pa.
Flaccus, C. L. Glass Co., Empire bldg, Pitts-
burg, Pa.

Hazel-Atlas Glass Co., Wheeling, W. Va.
Hemingray Glass Co., Covington, Ky.
Hermetic Closure Co. (Vacuum & Preserve Jars),
36 La Salle, Chicago, Ill.
Illinois Pacific Glass Co., San Francisco, Cal.
Marion Fruit Jar & Bottle Co., Marion, Ind.
Root Glass Co., Terre Haute, Ind.

Jigs (Coal)

Denver Engineering Works Co., Blake & 30th,
Denver, Colo.
Stroh, W. H. (estate of), Mauch Chunk, Pa.
Tamaqua Mfg. Co. ("Christ" Patent), Tama-
qua, Pa.
Wallace, Samuel, White Haven, Pa.

Jigs (For Concentrating Mills)

ALLIS-CHALMERS CO. ("Hancock"),
Milwaukee, Wis. (See adv. index & branch
offices, end of book)
American Concentrator Co. ("New Century,"
Differential Motion), Joplin, Mo.
Portage Lake Foundry & Machinery Co., Han-
cock, Mich.
Power & Mining Machinery Co. (Colton
Hart), 52 William, N. Y. Works, Cudahy,
Wis.

Jim-Crows.

(See also Rail Benders)

ANDERSON W. H. TOOL & SUPPLY
Co., 14 Macomb, Detroit, Mich. (See adv.
index, end of book)
Union Drop Forge Co., Chicago, Ill.

Joggers (Paper)

Hart, R. A. & Co., Battle Creek, Mich.

Jointers (Masons')

Braunsdorf-Mueller Co., Elizabeth, N. J.

Jointers (Pipe)

Lord, L. L. Co. ("Lord" Asbestos Lead Pipe
Joint Reamer), Meadville, Pa.
Mueller, H. Mfg. Co. (For Cast Iron Pipe), De-
catur, Ill.
Watkins, Thos. ("Watkins" Lead Pipe Jointer),
Johnstown, Pa.

Jointers (Saw Tooth)

Mixer, J. W. Saw Tool Co. (or Side File),
Plymouth, Mass.

Jointers (Shingle)

American Sawmill Machinery Co. (Rotary), 114
Liberty, New York. Works: Hackettstown,
N. J.

Jointers (Stave)

American Sawmill Machinery Co., 114 Liberty,
New York. Works: Hackettstown, N. J.
Strait, H. N. (Wheel, Barrel & Keg), Kansas
City, Mo.

Joints (Ball)

(See also Joints, Flexible)

American District Steam Co., Lockport, N. Y.
Gray & Prior Machine Co., 65 Suffolk, Hart-
ford, Conn.
Poole Engineering & Machine Co., Baltimore,
Walker Mfg. Co., Fenton, Mich.
Western Tube Co., Kewanee, Ill.

*Joints (Brass Spring)

LUNKENHEIMER CO., General Of-
fices & Works, Beekman & Waverly, Cin-
cinnati, O. (See adv. index & branch offices,
end of book)

Joints (Expansion)

Alberger Condenser Co. ("Wainwright"), 95
Liberty, New York
American District Steam Co. (Iron Body, for
Underground or Inside Work), Lockport,
N. Y.

Belfield, H. & Co. (Iron & Brass), 435 N Broad,
Phila., Pa.

Best Mfg. Co., 25th & A. V. Ry, Pittsburg, Pa.
Bordo, L. J. Co. (Inc.) ("Bordo" Swing Joints),
12th & Thompson, Phila., Pa.

Central Brass Works, 322 W Pearl, Cincinnati,
O.

Coffin Valve Co. (for Pipe Mains), Neponset,
Boston, Mass.

Coldwell-Wilcox Co., Newburgh, N. Y.
Crane Co. (Est. 1855), 519 S Canal, Chicago, Ill.

See adv. index & branch offices, end of book)
Draper Mfg. Co. ("Draper" Ball Union), Port
Huron, Mich.

Eastwood Wire Mfg. Co., Belleville, N. J.
Edwardsville Brass Co., Edwardsville, Ill.

Eaton, Cole & Burnham Co. (Iron Body, Brass
Mounted, also Brass), Bridgeport, Conn.

Haydenville Co., Haydenville, Mass.

Holmes, A. L., Grand Rapids, Mich.
Jarecki Mfg. Co., Erie, Pa., & Pittsburg, Pa.

King Machine Works, Reading, Pa.

KOVEN, L. O. & BRO., 50 Cliff, New
York. (See adv. index, end of book)

LUNKENHEIMER CO., General Of-
fices & Works, Beekman & Waverly, Cin-
cinnati, O. (See adv. index & branch offices,
end of book)

McNab & Harlin Mfg. Co., 56 John, New York,
& Paterson, N. J.

New York Flexible Metallic Hose & Tubing Co.
(Flexible), 161 Lafayette, New York

OIL WELL SUPPLY CO., 215 Water,
Pittsburg, Pa. (See adv. index, end of book)

Pearce, W. H. & Co. ("Crescent"), 269 Dear-
born, Chicago, Ill.

Powell, Wm. Co., 2525 Spg Grove av, Cin-
cinnati, O.

Queen City Brass & Iron Works (Brass, etc.),
Cincinnati, O.

Reliance Engineering Co., Duluth, Minn.
SCHAEFFER & BUDENBERG MFG.
Co., Foxboro, Mass. (See adv. index &
branch offices, end of book)

Swadkins, W. F. (Double, with Brass Sleeves),
143 Fulton, Chicago, Ill.

Thompson, J. & Co., Van Horn & Sophia, Phila.,
Pa.

Underwood, H. B. & Co., 1025 Hamilton, Phila.,
Pa.

Walworth Mfg. Co., 132 Federal, Boston, Mass.

Western Tube Co., Kewanee, Ill.

Joints (Filtering)

KOVEN, L. O. & BRO., 50 Cliff, New
York. (See adv. index, end of book)

Lee, Thomas (for Obtaining Pure Cistern
Water), Cincinnati, O.

Joints (Flexible)

(See also Joints, Ball)

Clow, Jas. B. & Sons (Ball Joints), 344 Frank-
lin, Chicago, Ill.

Coldwell-Wilcox Co., Newburgh, N. Y.
Draper Mfg. Co. ("Draper" Ball Union), Port
Huron, Mich.

Drummond, M. J. & Co. (Pipe), 182 B'way,
N. Y.

Holland Co. ("Holland"), Railway Exchange
bldg, Chicago, Ill.

Holmes, A. L. (For Water, Gas & Compressed
Air, Pipe, etc.), Grand Rapids, Mich.

Moran Flexible Steam Joint Co. (For Steam,
Air or Liquid all metal), Louisville, Ky.

Power Specialty Co. (Ball, for Piping), 111
B'way, New York

SULLIVAN MACHINERY CO. (For
Rock Drills & Channellers), Railway Ex-
change bldg, Chicago, Ill. (See adv. index
& branch offices, end of book)

United States Flexible Joint Co., Ry. Ex. bldg,
Chicago, Ill.

Walker Mfg. Co. (Pipe or Ball Joints), Fen-
ton, Mich.

Wood, R. D. & Co. (Pipe), 400 Chestnut,
Philadelphia, Pa.

Joints (Insulating)

(See Insulating Joints)

Joints (Ladder)

Brewer Bros. (Wrought), 614 Filbert, Phila.,
Pa.

STANLEY WORKS (Wrought Steel),
New Britain, Conn., & 79 Chambers, New
York. (See adv. index, end of book)

Joints (Splice)

(See Bars, Splice)

*Joints (Sucker Rod)

AMERICAN WELL WORKS, Aurora,
Ill. (See adv. index & branch offices, end of
book)

Columbus Forge & Iron Co., Columbus, O.

OIL WELL SUPPLY CO., 215 Water,
Pittsburg, Pa. (See adv. index, end of book)

Joints (Swing)

Bordo, L. J. Co. ("Bordo" Locomotive), 12th &
Thompson, Philadelphia, Pa.

Eastwood Wire Mfg. Co., Belleville, N. J.

Eaton, Cole & Burnham Co. (Brass, Steam,
etc.), Bridgeport, Conn.

OIL WELL SUPPLY CO., 215 Water,
Pittsburg, Pa. (See adv. index, end of book)

Schutte & Koerting ("Bordo"), 1251 N 12th,
Philadelphia, Pa.

Joints (Universal)

Baush Machine Tool Co. ("Bocorselski"), Spring-
field, Mass.

Boston Gear Works (Bronze), Norfolk Downs,
Mass.

Bowers, Geo. W. Mfg. Co., Boston, Mass.

BROWN, A. & F. CO., 25 Dey, New
York. Works: Elizabethport, N. J. (See
adv. index, end of book)

Gem Mfg. Co. ("Gem"), Pittsburg, Pa.

Gould & Eberhardt, Newark, N. J.

Gray & Prior Machine Co., Hartford, Conn.

Hartford Auto Parts Co., Hartford, Conn.

Hussey Drop Forge & Mfg. Co., Cleveland, O.

Laib Co. ("The Tubbs"), 149 3d, Louisville, Ky.

Lebman, I., 61 Middle, Cleveland, O.

Mutual Machine Co., Hartford, Ill.

Spicer Universal Joint Mfg. Co., Plainfield, N. J.

Walker Mfg. Co., Fenton, Mich.

Walworth Mfg. Co., Boston, Mass.

Joist Anchor & Timber Caps

(See also Hangers, Joist)

AMOS, CHARLES & CO., 94 W
Larned, Detroit, Mich. (See adv. index,
end of book)

CHAMPION IRON CO., Kenton, O. (See
adv. index, end of book)

Goetz Box Anchor Co., New Albany, Ind.

Lanz, M. & Sons (Steel), Carson, & 29th, Pitts-
burg, Pa.

Van Dorn Iron Works Co., 1793 E Madison av,
Cleveland, O.

Joist Hangers

(See Hangers, Joist)

Journal Boxes

(See Boxes, Journal)

Joveite Explosives

Explosives Co., Elmira, N. Y.

Junction or Outlet Boxes

(See Boxes, Junction)

Kalameined Iron Covered Work

(See Doors & Windows, Kalameined)

*Kalameined Windows (Airtight)

JACKSON, WM. H. COMPANY, 29 E
17th (Union sq.), New York. (See adv. in-
dex, end of book)

Kalsomine Mfrs.

Bird, J. A. & W. Co. (Petrol), 34 India, Boston, Mass.
 Connors, Wm. Paint Mfg. Co., Troy, N. Y.
 Fire Resisting Paint Co. (Fire Resisting, "Calimine"), West Bridgewater, Pa.
 Hainbach, Bernard, 19 Calender, Providence, R. I.
 Johnston, Henry M. Mfg. Co., 60 Wash'n av, Brooklyn, N. Y.
 Kalso Co. (Prepared), 775 Lexington av, New York
 Lucas, Jno. & Co., 4th & Race, Phila., Pa.
 Moore, Benj. & Co. ("Muresco"), 262 Water, Brooklyn, N. Y.
MURALO CO., New Brighton (Borough of Richmond), New York. (See adv. index, end of book)
 Phillips, Jno. B. Mfg. Co., 80 9th, Brooklyn, N. Y.
 Troy Cold Water Kalsomine Co. ("Klark's" Cold Water), Troy, N. Y.
 Whittaker, W. H., 245 Front, New York
 Woolsey, C. A. Paint & Color Co., Jersey City, N. J.

Kaolin Mfrs.

Bloomfield Clay Co., Metuchen, N. J.
 Edgar Plastic Kaolin Co., Metuchen, N. J.
 Golding Sons Co., Trenton, N. J.
 Graham Kaolin Co., Avondale, Pa.
 Immaculate Kaolin Co., Langley, S. C.
 Kaolin Mfg. Co., Waynesville, N. C.
KREISCHER BRICK MFG. CO., 119 E 23d, New York. Works, Kreischerville, S. I., N. Y. (See adv. index, end of book)
 Lamar, T. G. Kaolin Co., Langley, S. C.
 Langley, T. G., Langley, S. C.
 Palattakaha Kaolin Co., Leesburg, Fla.
 Peerless Clay Co., Langley, S. C.
 Remmey, Richard, Sons Co., 2637 E Cumberland, Phila., Pa.
 United Kaolin Properties Co., First Nat'l Bank bldg, Chicago, Ill.
 Welsh Mountain Mining & Kaolin Mfg. Co., Honeybrook, Pa.

Keg Mfrs.

American Wooden Ware Mfg. Co. (Quartered White Oak Liquor, Cider, Pickle, etc.), Toledo, O. Works: Leakey, Tex.
 Baltimore Cooperage Co. (Brewers', etc.; also Barrels), Baltimore, Md.
 Bell, Edwin Co. (Nail, Spike, Horseshoe, Nut, etc.), ft S 17th, Pittsburg, Pa.
 Bridge, A. D. (Powder), Hazardville, Conn.
 Brooklyn Cooperage Co. (Nail, etc.), N 6th, Brooklyn, N. Y.
 Budke Mfg. Co. (Steel Powder), 421 Wood, Pittsburg, Pa.
 Grelf Bros. Co. (Nail, Bolt, etc.), Cleveland, O.
 Impervious Package Co. (Nail, etc.), Keene, N. H.
 Ohio Cooperage Co. (Nail, Bolt, etc.), Cleveland, O.
 Peirce, W. E. & Co., Milford, N. H.
 Schwarzwalder, J. & Son (Nail, etc.), 629 W 51st, N. Y.
 Walsh Mfg. Co., Huntington, Pa.

***Kegs (Seamless Pressed Steel)**

PRESSED STEEL TANK CO., Milwaukee, Wis. (See adv. index, end of book)

***Kegs (Powder, Steel)**

LYON METALLIC MFG. CO., Aurora, Ill. (See adv. index, end of book)

Kegs (Steel Shop)

Clark, W. J. Co., Salem, O.
 Cleveland Wire Spring Co., Cleveland, O.
LYON METALLIC MFG. CO., Aurora, Ill. (See adv. index, end of book)
 Ohio Mfg. Co., Painesville, O.
WILSON, F. CORTEZ & CO., 239 Lake, Chicago, Ill. (See adv. index, end of book)

Kettles (Acid)

Cornell, J. B. & J. M. Co., 26th & 11th av, New York

Kettles (Aluminum Steam Jacketed)

Illinois Pure Aluminum Co., Lemont, Ill.

Kettles (Aniline)

(See Kettles, Size)

Kettles (Asphalt)

(See Furnaces, Asphalt, etc.)

Kettles (Caldron)

Busch's A. Son's Co., Elizabeth, N. J.
 Creamery Package Mfg. Co., Chicago, Ill.
 Donaldson Bros., Mt. Clemens, Mich.
 Gowanda Agricultural Works, Gowanda, N. Y.
 Greenville Implement Co., Greenville, Mich.
 Heller, Aller Co., Napoleon, O.
 Lehr Agricultural Co., Fremont, O.
 Lyon Iron Works, Greene, N. Y.
 Moore Plow & Implement Co., Greenville, Mich.
 Sellers, Edward, Oak Park, Pa.
 Stuart & Peterson Co., Burlington, N. J.

Kettles (Caustic Soda)

Eastwood Wire Mfg. Co., Belleville, N. J.

***Kettles (Dross)**

WILFONG BROS., 52d & Grays av., Phila., Pa. (See adv. index, end of book)

Kettles (Galvanizing)

Girard Boiler & Mfg. Co., Girard, O.
 Pollock, Wm. E. Co., Youngstown, O.
REEVES BROS. CO. (Riveted & Welded), Alliance, O. (See adv. on following page)
WILFONG BROS., 52d & Grays av., Phila., Pa. (See adv. index, end of book)

***Kettles (Glue Cooking)**

(See also Heaters, Glue)

WILSON, F. CORTEZ & CO., 239 Lake, Chicago, Ill. (See adv. index, end of book)

***Kettles (Melting)**

KOVEN, L. O. & BRO., 50 Cliff, New York. (See adv. index, end of book)
WILFONG BROS., 52d & Grays av., Phila., Pa. (See adv. index, end of book)

Kettles (Size)

COHOES IRON FOUNDRY & MACHINE CO., Cohoes, N. Y. (See adv. index, end of book)
 Franklin Machine Co., Providence, R. I.
 Tompkins, D. A. Co. (Mfrs.), Charlotte, N. C.
 Townsend Fdy. & Machine Shop Co. (Aniline), Albany, N. Y.

Kettles (Smelting)

KOVEN, L. O. & BRO., 50 Cliff, New York. (See adv. index, end of book)

Kettles (Soda, Tool Cleaning)

Brown & Sharpe Mfg. Co., Providence, R. I.
KOVEN, L. O. & BRO., 50 Cliff, New York. (See adv. index, end of book)

Kettles (Steam Jacket)

Ashcroft, Jno. Grate Bar Co. (Seamless), 61 Beekman
BADGER, E. B. & SONS CO., 75 Pitts, Boston, Mass. (See adv. index, end of book)
 Baker, G. W. & Co. (and Mixers for Tanners & Curriers), Wilmington, Del.
 Blymyer Iron Works Co., Cincinnati, O.
 Brewer, Wm. W., 2787 6th av, Troy, N. Y.
 Clark, Geo. Engine & Boiler Co., Kalamazoo, Mich.
 Day, J. H. Co., 1144 Harrison av, Cincinnati, O.
 Dopp, H. W. & Son, 522 Ellicott, Buffalo, N. Y.
 Freeman, S. & Sons Mfg. Co., Racine, Wls.
 French Oil Mill Machinery Co., Piqua, O.

GRAVER, WM. TANK WORKS (for Lard, Soap, Refining, etc.), East Chicago, Ind. (See adv. index, end of book)
 Harris, Arthur & Co., 44 N Curtis, Chicago, Ill.
 Houchin & Huher, 35 53d, Brooklyn, N. Y.
 Jochum, Andrew (Copper Jacketed), 148 E 50th, New York

Langsenkamp, Wm., Indianapolis, Ind.
 Littleford Bros., 453 E Pearl, Cinn., O.
 McElroy Iron Works Co., Keokuk, Iowa
 Maryland Mfg. & Construction Co., Baltimore, Md.

Mott, J. L. Iron Works, 118 5th av, N. Y.
 Motter, Geo. F. & Sons, York, Pa.
 Murray Iron Works Co., Burlington, Ia.
 Novelty Steam Boiler Works (Triplett & Jennings, Prop's), 917 Howard, Baltimore, Md.
PETROLEUM IRON WORKS CO., Washington, Pa., & Farmers' Bank bldg, Pittsburg, Pa. (See adv. index, end of book)

Petty, J. K. & Co. (Lebanon Boiler Works), Stephen Girard bldg, Phila., Pa. Works: Lebanon, Pa.

Pioneer Iron Works, 149 Pioneer, Brooklyn, N. Y.
 Ross, Chas. & Son Co., 148 Classon av, Brooklyn, N. Y.

SCAIFE, WM. B. & SONS CO., 221 av, Pittsburg, Pa. (See adv. index, end of book)

Savage Bros. Co. (Candy Makers), 42 Michigan, Chicago, Ill.

Smith's Jno. E. Sons Co. (For Tanners), Buffalo, N. Y.

Smith & Anthony Co., Boston, Mass.
 Sperry, D. R. & Co., Batavia, Ill.

SPRAGUE CANNING MACHINERY CO. (For Cannery), 42 River, Chicago, Ill. (See adv. index, end of book)

Stuart & Peterson Co., Burlington, N. J.
 Walker, Pratt Mfg. Co., 33 Union, Boston, Mass.

Walworth Mfg. Co., 132 Federal, Boston, Mass.
WILSON, F. CORTEZ & CO., 239 Lake, Chicago, Ill. (See adv. index, end of book)

Kettles (Sugar)

(See also Sugar Machinery, etc., in letter S)

Blymyer Iron Works Co., Cincinnati, O.
 Chattanooga Plow Co., Chattanooga, Tenn.
 Kilbourne & Jacobs Mfg. Co., Columbus, O.
 Over, Ewald, 426 S Penn, Indianapolis, Ind.
 Southern Plow Co., Columbus, Ga.
 Sperry, D. R. & Co., Batavia, Ill.

Kettles (Tar)

Evans, F. H. Co., 596 Kent av, Brooklyn, N. Y.
 Hibbs, E. A., 209 Quarry, Phila., Pa.
KOVEN, L. O. & BRO., 50 Cliff, New York. (See adv. index, end of book)
 Littleford Bros., 453 E Pearl, Cincinnati, O.
 Pioneer Iron Works, 149 Pioneer, Brooklyn, N. Y.

Pollock, Alex. Co., 203 West, N. Y.
REEVES BROS. CO., Alliance, O. (See adv. on following page)
 Riter-Conley Mfg. Co., Pittsburg, Pa., & 111 B'way, New York
 Wright, Stafford, Lawrence, Mass.

Key Blanks

(See Blanks, Key)

Key Seaters

(See Machines, Key-Seating)

Keys (Brake Shoe)

Quincy-Manchester-Sargent Co. ("Q. & C."), Old Colony hldg, Chicago, Ill., & 114 Liberty, New York
 Steel Car Forge Co. (Iron or Steel for Christie Heads), Pittsburg, Pa. Works, Elwood City, Pa.

Keys (Flat Spring & Riveted)

(See also Cotters, Spring, Etc.)

Brooks, M. S. & Sons (Flat Steel Spring or Riveted), Chester, Conn.
 Climax Tag Co. (Flat), Dayton, O.
 Cobb & Drew (Flat Steel Spring & Flat Riveted), Plymouth, Conn.
 Hallinger Fence Co. (Flat Steel Spring), Greenville, O.
 Haskell, W. H. Mfg. Co., Pawtucket, R. I.

Hindley Mfg. Co. ('Columbia' Flat & Flat Spring Steel), Valley Falls, R. I.
National Screw & Tack Co. (Flat Steel Spring or Riveted), Cleveland, O.
Pickering, R. S. (Steel Flat Spring & Riveted), Sharon Hill, Pa.
Smith, F. P. & Co. (Flat & Flat Spring, Steel), Sharon Hill, Pa.
WHITMAN & BARNES MFG. CO. (Brass, Steel & Copper), Chicago, Ill. (See adv. index & branch offices, end of book)
Wire Goods Co. (Iron & Brass Flat Spring), Worcester, Mass.

Keys (Machine)

Billings & Spencer Co., Hartford, Conn.
Henry & Allen, Auburn, N. Y.
Hoopes & Townsend Co., 1330 Bnttonwood, Phila., Pa.
Keystone Drop Forge Works (Shafting, etc.), Chester, Pa.
Meyer & Co. (Glb Head), Auburn, N. Y.
Morton Mfg. Co. (Finished Ready to Drive), Muskegon Heights, Mich.
Olney & Warrin (Finished Gib & Plain Head), Center & Leonard, New York
Sandwich Mfg. Co., Sandwich, Ill.
STANDARD GAUGE STEEL CO. (Finished Steel), Beaver Falls, Pa. (See adv. index, end of book)
Whitney Mfg. Co. (For the Woodruff System of Keying), Hartford, Conn.

Keys (Riveted)

(See Keys, Flat Spring & Riveted)

Keys (Street Washer)

Western Tube Co., Kewanee, Ill.

Killers (Fly)

Bigelow, J. F., Worcester, Mass.
Onondaga Mfg. & Promoting Co. ('Sure Death'), Syracuse, N. Y.
OSBORN MFG. CO., Cleveland, O. (See adv. index, end of book)

Kiln Drying Apparatus Mfrs.

American Blower Co., 1400 Russell, Detroit, Mich.
ANDREWS & JOHNSON CO., 256 Wash'n boul, Chicago, Ill. (See adv. index, end of book)
Buffalo Forge Co., Buffalo, N. Y.
Garden City Fan Co., Fisher bldg, Chicago, Ill.
Hartford Blower Co., Hartford, Conn.
Link, M. E. Machinery Co., Erie, Pa.
NATIONAL BLOWER WORKS, 17th & St. Paul av, Milwaukee, Wis. (See adv. index, end of book)
Sturtevant, B. F. Co., Hyde Park, Mass.

Kilns (China & Pottery)

Lewis, Henry B., 45 Jos. Campau av, Detroit, Mich.

Kilns (Dry)

(See also Dryers, Brick; also Kiln Drying Apparatus Mfrs.)

American Blower Co., 1400 Russell, Detroit, Mich.
ANDREWS, A. H. CO. (Lumber, Dry Kilns), 174 Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
ANDREWS & JOHNSON CO., 256 Wash'n boul, Chicago, Ill. (See adv. index, end of book)
Buffalo Forge Co., Buffalo, N. Y.
Carnell, George (Est. of), 1819 N 5th, Phila., Pa.
Chambers Bros. Co. (Brick or Dntch), 52d, below Lancaster av, Phila., Pa.
Dennis, F. W. (Down Droft Brick, etc.), Atlanta, Ga.
Emerson Co. (Automatic Compressed Driers), Gaither Estate, Baltimore, Md.
Garden City Fan Co., Fisher bldg, Chicago, Ill.
Grand Rapids Veneer Works, Grand Rapids, Mich.
GREEN FUEL ECONOMIZER CO., Matteawan, N. Y., & 1218 West Street bldg, New York. (See adv. index & branch offices, end of book)
Haight, H. (Continuous Brick, etc.), Catskill, N. Y.
KOVEN, L. O. & BRO., 50 Cliff, New York. (See adv. index, end of book)
Krom Machine Works, 170 B'way, New York. Works: Jersey City, N. J.
Martin Machine Co., Meridian, Miss.
Milner & Kettig Co., Birmingham, Ala.
NATIONAL BLOWER WORKS, 17th & St. Paul, Milwaukee, Wis. (See adv. index, end of book)
National Dry Kiln Co., Indianapolis, Ind.
Platt Triple Draft Kiln Co. (Brick, Tile, etc.), Van Meter, Ia.
Richardson-Lovejoy Engineering Co. (Brick, etc.), Columbus, O.
Ridgway Mfg. Co. ('Murphy' Moist Air Condensing, for Lumber), Ridgway, Pa.
Sharer Dryer & Kiln Co. (Brick, etc.), 914 Walnut, Phila., Pa.
Standard Dry Kiln Co., Indianapolis, Ind.
Sweatt, J. B., Sault Ste. Marie, Mich.

Kilns (Lime Burning)

Aurora Boiler Works (Inc.), Aurora, Ill.
Bates Engineering & Construction Co. (Complete Plants), Gt. Barrington, Mass.
Broomell, Schmidt & Steacy Co. ('Keystone' Continuous), York, Pa.
Shoop, S. W. & Co., Altoona, Pa.
SMITH, F. L. & CO., 39 Cortlandt, New York (See adv. index, end of book)
Wilke Mfg. Co., Anderson, Ind.

Kilns (Roasting)

(See Kilns, Rotary.)

Kilns (Rotary)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

BETHLEHEM FOUNDRY & MACHINE Co., Front, South Bethlehem, Pa. (See adv. index, end of book)

BONNOT COMPANY, Canton, O. (See adv. index, end of book)

McDermott Bros., Allentown, Pa.
Mosser, W. F. & Son, Allentown, Pa.
REEVES BROS. CO. (Any Size), Alliance, O. (See adv. below)
Variety Iron & Steel Works Co., Cleveland, O.
Vulcan Iron Works, Wilkes-Barre, Pa.

Kindergarten Supplies

Hamilton Mfg. Co., Two Rivers, Wis.
Tabbs Mfg. Co., Ludington, Mich.

Kitchen Utensils for Hotels & Institutions

(See Cooking Apparatus)

*Knives (Apple Grinder)

COES, LORING & CO. (Inc.), Worcester, Mass. (See adv. index, end of book)

Knives (Banana)

AMERICAN TAP & DIE CO., Greenfield, Mass. (See adv. index, end of book)
Harrington Cutlery Co. (Dexter), Southbridge, Mass.
Tuck Mfg. Co., Brockton, Mass.

Knives (Band Cutter & Self Feeder)

American Knife Co., Baldwinsville, N. Y.
COES, LORING & CO. (Inc.), Worcester, Mass. (See adv. index, end of book)
Meyer & Co., Auburn, N. Y.

Knives (Bark Grinder)

COES, LORING & CO. (Inc.), Worcester, Mass. (See adv. index, end of book)
Taylor Bros. & Co., Fulton, N. Y.

Knives (Barrel Machine)

COES, LORING & CO. (Inc.), Worcester, Mass. (See adv. index, end of book)
Worden Tool Co., 1854 Scranton rd, Cleveland,

Knives (Bean Harvester)

COES, LORING & CO. (Inc.), Worcester, Mass. (See adv. index, end of book)
Henry & Allen, Auburn, N. Y.
Mason, F. C. & Co., St. Johns, Mich.

Knives (Beet Topper)

American Fork & Hoe Co., Cleveland, O.
American Knife Co., Baldwinsville, N. Y.
AMERICAN TAP & DIE CO., Greenfield, Mass. (See adv. index, end of book)
Clyde Cutlery Co., Clyde Ohio.

Rotary Cement Kiln, 8 feet Diameter x 100 feet long.



ROTARY CEMENT KILN 8 FT. DIA X 100 FT LONG

WE MANUFACTURE

Oil and Acid Tanks, Oil Refinery Work, Annealing Boxes, Standpipes, Water, Copper Furnaces, Clinker Coolers, Penstocks and Riveted Pipe, Creosoting
Car Tanks, Heavy Dryer Cylinders, Towers, Converters, Ladles, Boilers, Self-Supporting Stacks, Galvanizing
Rotary Cement Cylinders, Heaters, Girders, Steel Buildings, and Tinning Pots, Lime Kilns, Cylinders, Cyanide Tanks, Heavy and
Blast Furnaces, Buildings, Grain Elevators, Brick Hardening Cylinders, Light Plate Construction of Every
Description Erected Anywhere.

THE REEVES BROTHERS COMPANY, Alliance, Ohio, U. S. A.

STANDARD GAUGE STEEL COMPANY, Beaver Falls, Pa., U. S. A.

Manufacturers of

FINISHED MACHINE KEYS,
STEEL MACHINE RACK,
LEAD, FEED, PRESS AND
ADJUSTING SCREWS.

COLD COMPRESSED STEEL ELEVATOR GUIDES,
FLATS, SQUARES, HEXAGONS, ANGLES
AND SPECIAL SHAPE STEEL.

Write for Catalogue.



Knives (Belt)

Clemson-Bailey Co., Woburn, Mass.
Lyon, Edw. S., Woburn, Mass.

Knives (Bone Cutter)

American Knife Co., Baldwinsville, N. Y.
AMERICAN TAP & DIE CO., Green-
field, Mass. (See adv. index, end of book)
COES, LORING & CO. (Inc.), Worces-
ter, Mass. (See adv. index, end of book)

***Knives (Bookbinder)**

COES, LORING & CO. (Inc.), Worces-
ter, Mass. (See adv. index, end of book)

***Knives (Box Corner Cutter)**

COES, LORING & CO. (Inc.), Worces-
ter, Mass. (See adv. index, end of book)

Knives (Bread)

American Cutlery Co., 193 Mather, Chicago, Ill.
AMERICAN TAP & DIE CO., Green-
field, Mass. (See adv. index, end of book)
Clanss Shear Co. ("Clanss"), Fremont, O.
Dunn Edge Tool Co., Oakland, Me.
Harrington Cutlery Co. (Dexter), Southbridge,
Kimball, C. J. Co., Bennington, Vt. Mass.
Landers, Frary & Clark, New Britain, Conn.
Tuck Mfg. Co., Brockton, Mass.

Knives (Brick)

Granger's Drop Forge Works, 25 S Canal, Chi-
cago, Ill.

Knives (Broom Corn)

Harrington Cutlery Co. ("Dexter"), South-
bridge, Mass.

Knives (Butchers')

American Cutlery Co., 193 Mather, Chicago, Ill.
American Knife Co., Baldwinsville, N. Y.
AMERICAN TAP & DIE CO., Green-
field, Mass. (See adv. index, end of book)
Clyde Cutlery Co., Clyde, O.
Foster Bros. & Chatillon Co., Fulton, N. Y.
Kimball, C. J. Co., Bennington, N. H.
Harrington Cutlery Co., ("Dexter"), South-
bridge, Mass.
Lamson & Goodnow Mfg. Co. ("L. & G."),
Shelburne Falls, Mass.
Landers, Frary & Clark, New Britain, Conn.
Mack & Co., Rochester, N. Y.
Meriden Cutlery Co., Meriden, Conn.
National Cutlery Co., Lawton & M. C. R. R.,
Detroit, Mich.
Richard, Stephen & Co. ("S. R."), Southbridge,
Tuck Mfg. Co., Brockton, Mass.
Wilkinson Shear & Cutlery Co., Reading, Pa.

Knives (Cane)

Atkins, E. C. & Co. (Inc.), Home Offices &
Factories, Indianapolis, Ind.
COES, LORING & CO. (Inc.), Worces-
ter, Mass. (See adv. index, end of book)
Indiana Edge Tool Co., Gas City, Ind.

Knives (Carpet)

Dame, Stoddard & Co. ("R. Murphy's"), Bos-
ton, Mass.

Knives (Carving)

AMERICAN CUTLERY CO., 193 Math-
er, Chicago, Ill.
AMERICAN TAP & DIE CO., Green-
field, Mass. (See adv. index, end of book)
Goodell Co. (Cut Glass Handle, etc.), Antrim,
N. H.
Lamson & Goodnow Mfg. Co., Shelburne Falls,
Meriden Cutlery Co., Meriden, Conn. Mass.
Silver Plate Cutlery Co., Derby, Conn.
Wilkinson Shear & Cutlery Co., Reading, Pa.

***Knives (Celluloid)**

COES, LORING & CO., Inc., Worces-
ter, Mass. (See adv. index, end of book)

Knives (Cheese)

AMERICAN CUTLERY CO., 193 Math-
er, Chicago, Ill.
AMERICAN TAP & DIE CO., Green-
field, Mass. (See adv. index, end of book)
COES, LORING & CO. (Inc.), Worces-
ter, Mass. (See adv. index, end of book)
Harrington Cutlery Co. (For Family Use),
Southbridge, Mass.
Landers, Frary & Clark, New Britain, Conn.

Knives (Chipper)

COES, LORING & CO. (Inc.), Worces-
ter, Mass. (See adv. index, end of book)
Stortz, Jno. & Son, 210 Vine, Phila., Pa.
Taylor Bros. & Co., Fulton, N. Y.

Knives (Chipping)

Johnson, Wm. (Hedenberg Works), Newark,
N. J.

Knives (Chopping)

Dover Stamping & Mfg. Co. (For Family
Use), Cambridge, Mass.
Parks & Parks ("Or Mincing"), Troy, N. Y.

Knives (Cigar)

American Cutlery Co., 193 Mather, Chicago,
Ill.
Harrington Cutlery Co. ("Dexter"), South-
bridge, Mass.
Landers, Frary & Clark, New Britain, Conn.
National Selling Co., Allentown, Pa.
Richard, Stephen Co. ("S. R."), Southbridge,
Tuck Mfg. Co., Brockton, Mass. Mass.

***Knives (Clothespin)**

COES, LORING & CO. (Inc.), Worces-
ter, Mass. (See adv. index, end of book)

***Knives (Clover Huller)**

COES, LORING & CO. (Inc.), Worces-
ter, Mass. (See adv. index, end of book)

Knives (Cooperage)

COES, LORING & CO. (Inc.), Worces-
ter, Mass. (See adv. index, end of book)
Mack & Co., Rochester, N. Y.

Knives (Cope Cutter)

COES, LORING & CO. (Inc.), Worces-
ter, Mass. (See adv. index, end of book)
Taylor Bros. & Co., Fulton, N. Y.

***Knives (Cord Wood Splitter)**

COES, LORING & CO. (Inc.), Worces-
ter, Mass. (See adv. index, end of book)

Knives (Cork)

Atkins, E. C. & Co. (Inc.), Home Offices &
Factories, Indianapolis, Ind.
COES, LORING & CO. (Inc.), Worces-
ter, Mass. (See adv. index, end of book)
Harrington Cutlery Co. ("Dexter"), South-
bridge, Mass.
Oldham, Joshua & Sons (Inc.), 112 26th, Brook-
lyn, N. Y.

Knives (Corn Harvester)

American Knife Co., Baldwinsville, N. Y.
Anderson Knife & Bar Co., Anderson, Ind.
Atkins, E. C. & Co. (Inc.), Home Offices &
Factories, Indianapolis, Ind.
COES, LORING & CO. (Inc.), Worces-
ter, Mass. (See adv. index, end of book)
Henry & Allen, Auburn, N. Y.
Herschel, R. Mfg. Co., Peoria, Ill.
Hunt, Helm, Ferris & Co., Harvard, Ill.
Indiana Edge Tool Co. ("Clipper," "Shawnee,"
"Xler," "Acme," "Dewey"), Gas City, Ind.

***Knives (Cotton Seed Huller)**

COES, LORING & CO. (Inc.), Worces-
ter, Mass. (See adv. index, end of book)

***Knives (Cotton Shear)**

COES, LORING & CO. (Inc.), Worces-
ter, Mass. (See adv. index, end of book)

***Knives (Curd)**

COES, LORING & CO. (Inc.), Worces-
ter, Mass. (See adv. index, end of book)

***Knives (Dehorner)**

COES, LORING & CO. (Inc.), Worces-
ter, Mass. (See adv. index, end of book)

Knives (Dirk)

Novelty Cutlery Co., Canton, O.

***Knives (Double Edge)**

COES, LORING & CO. (Inc.), Worces-
ter, Mass. (See adv. index, end of book)

***Knives (Dowel)**

COES, LORING & CO. (Inc.), Worces-
ter, Mass. (See adv. index, end of book)

Knives (Drawing)

Bradley's, G. W. Sons (Inc.), Westport, Conn.
Kimball, C. J. Co. (Cast Steel), Bennington,
N. H.
Mack & Co. ("D. R. Barton"), Rochester, N. Y.
Ohio Tool Co., Columbus, O.
Peck, Stow & Wilcox Co., Southington, Conn.
Simonds Mfg. Co., Fitchburg, Mass.
Swan, Jas. Co. ("Bradley" Pattern, etc.), Sey-
mour, Conn.
Wilkinson, A. J. & Co. (Folding & Adjustable
Handle), 180 Washington, Boston, Mass.
Winsted Edge Tool Co., Winsted, Conn.

Knives (Ensilage)

American Knife Co., Baldwinsville, N. Y.
COES, LORING & CO. (Inc.), Worces-
ter, Mass. (See adv. index, end of book)
Henry & Allen, Auburn, N. Y.
Taylor Bros. & Co., Fulton, N. Y.

Knives (Excelsior)

Atkins, E. C. & Co. (Inc.), Home Offices &
Factories, Indianapolis, Ind.
COES, LORING & CO. (Inc.), Worces-
ter, Mass. (See adv. index, end of book)
Taylor Bros. & Co., Fulton, N. Y.

Knives (Fur Cutter)

COES, LORING & CO. (Inc.), Worces-
ter, Mass. (See adv. index, end of book)
Richard, Stephen Co. ("S. R."), Southbridge,
Mass.

***Knives (Gaining Cutter)**

COES, LORING & CO. (Inc.), Worces-
ter, Mass. (See adv. index, end of book)

Knives (Gauge Lathe)

Atkins, E. C. & Co. (Inc.), Home Offices &
Factories, Indianapolis, Ind.
COES, LORING & CO. (Inc.), Worces-
ter, Mass. (See adv. index, end of book)

Knives (Grape Pruner)

Harrington Cutlery Co. ("Dexter"), South-
bridge, Mass.

***Knives (Handle)**

COES, LORING & CO. (Inc.), Worces-
ter, Mass. (See adv. index, end of book)

Knives (Hay)

COES, LORING & CO. (Inc.), Worces-
ter, Mass. (See adv. index, end of book)
Dunn Edge Tool Co., Oakdale, Maine.
Ely, Theo. Mfg. Co. ("Ely's Dandy"), Girard,
Pa.
Nolin Mfg. Co. ("Nolin"), Skowhegan, Me.
Swineford, G. A. Co., Canton, O.

Knives (Hay & Corn Cutter)

American Axe & Tool Co., Glassport, Pa., & 253 B'way, New York
 American Knife Co., Baldwinsville, N. Y.
 Bateman Mfg. Co. (The Eureka), Greenloch, N. J.
 Clark & Parsons Co., E Wilton, Me.
COES, LORING & CO. (Inc.), Worces-
 ter, Mass. (See adv. index, end of book)
 Hankey, A. & Co., Rochdale, Mass., & 1213 Race, Phila., Pa.
 Henry & Allen, Auburn, N. Y.
 Indiana Edge Tool Co., ("Weymouth," Spear Point), Gas City, Ind.
 Iwan Bros. (Both Handles Adjustable), Streator, Ill.
 National Saw Co. (Corn), Newark, N. J., & Middletown, N. Y.
 Ney Mfg. Co. ("American" Sickle Edge), Canton, O.
 North Wayne Tool Co. (the C. C. Brooks & H. S. Earle), Hallowell, Me.
 Wallingford Mfg. Co., Wallingford, Vt.
 Winsted Mfg. Co., Winsted, Conn.

*Knives (Header)

COES, LORING & CO. (Inc.), Worces-
 ter, Mass. (See adv. index, end of book)

Knives (Hedge & Root)

Evansville Tool Works (Axie Handle), Evansville, Ind.
 Indiana Edge Tool Co. ("Scottish Chief" "Hoo-sier"), Gas City, Ind.

*Knives (Heel Breaster)

COES, LORING & CO. (Inc.), Worces-
 ter, Mass. (See adv. index, end of book)

Knives (Hoop)

Bradley's, G. W. Sons (Inc.), Westport, Conn.
 Cleveland Machine Knife Co., 5 West, Cleveland, O.
 Worden Tool Co., 1854 Scranton road, Cleveland, Ohio

Knives (Hoop Machine)

COES, LORING & CO. (Inc.), Worces-
 ter, Mass. (See adv. index, end of book)

Knives (Hunting)

American Cutlery Co., 193 Mather, Chicago, Ill.
AMERICAN TAP & DIE CO., Green-
 field, Mass. (See adv. index, end of book)
 Clyde Cutlery Co., Clyde, Ohio.
 Hunnison & Beckley Mfg. Co., New Britain, Conn.
 Marble Safety Axe Co. ("Sportsman's" Camp, "Sportsman's Fish" and "Expert" and "Ideal" Hunting), Gladstone, Mich.
 Richard Stephen Co. ("S. R."), Southbridge, Mass.

Knives (Jointer)

COES, LORING & CO. (Inc.), Worces-
 ter, Mass. (See adv. index, end of book)
 Hankey, A. & Co., Rochdale, Mass., & 1213 Race, Phila., Pa.
 Taylor Bros. & Co., Fulton, N. Y.
 Worden Tool Co., Cleveland, O.

Knives (Kitchen)

American Cutlery Co., 193 Mather, Chicago, Ill.
AMERICAN TAP & DIE CO., Green-
 field, Mass. (See adv. index, end of book)
 Browne & Dowd Mfg. Co. ("B. & D. Co."), Meriden, Conn.
 Clyde Cutlery Co., Clyde, O.
 Dover Stamping & Mfg. Co., Cambridge, Mass.
 Harrington Cutlery Co. ("Dexter"), Southbridge, Mass.
 Kimball, C. J. Co., Bennington, N. H.
 New England Specialty Co., North Easton, Mass.
 Richard Stephen Co. ("S. R."), Southbridge, Mass.

Knives (Lawn Mower)

COES, LORING & CO. (Inc.), Worces-
 ter, Mass. (See adv. index, end of book)
 Harrow Spring Co., Kalamazoo, Mich.

Knives (Leather Cutting)

Cleveland Machine Knife Co., 5 West, Cleveland, O.

Knives (Leather Splitting)

COES, LORING & CO. (Inc.), Worces-
 ter, Mass. (See adv. index, end of book)
 Hankey, A. & Co., Rochdale, Mass., & 1213 Race, Phila., Pa.
 Mack & Co., Rochester, N. Y.

*Knives (Linotype)

COES, LORING & CO. (Inc.), Worces-
 ter, Mass. (See adv. index, end of book)

*Knives (Listing Jointer)

COES, LORING & CO. (Inc.), Worces-
 ter, Mass. (See adv. index, end of book)

*Knives (Lithograph Stone)

COES, LORING & CO. (Inc.), Worces-
 ter, Mass. (See adv. index, end of book)

*Knives (Logwood)

COES, LORING & CO. (Inc.), Worces-
 ter, Mass. (See adv. index, end of book)

*Knives (Loom, Carpet)

COES, LORING & CO. (Inc.), Worces-
 ter, Mass. (See adv. index, end of book)

Knives (Machine)

American Knife Co., Baldwinsville, N. Y.
 Anderson Knife & Bar Co., Anderson, Ind.
 Atkins, E. C. & Co. (Inc.), Home Offices & Factories, Indianapolis, Ind.
 Bailey & Blendinger Mfg. Co., Boburn, Mass.
 California Saw Works, San Francisco, Cal.
 Champion Saw Co., Beaver Falls, Pa.
 Chattanooga Saw Works, Chattanooga, Tenn.
 Chicago Knife Works, 179 S Clinton, Chicago, Ill.
 Cleveland Machine Knife Co., 5 West, Cleveland, O.
COES, LORING & CO. (Inc.), Worces-
 ter, Mass. (See adv. index, end of book)
 Curtis & Co. Mfg. Co., St. Louis, Mo.
 Detroit Edge Tool Works, Detroit, Mich.
 Disston, Henry & Sons (Inc.), Tacony, Phila., Pa.
 Dowd, R. J., Beloit, Wis.
 Emerson, Smith & Co. (Ltd.), Beaver Falls, Pa.
 Flag, Joshua G. & Son (Leather Splitting, etc.), Dover, N. H.

Foster Bros. & Chatillon Co., Fulton, N. Y.
 Foucart, J. E., Williamsport, Pa.
 Fowle Bros. & Co., Woburn, Mass.
 Fox Machine Co., Grand Rapids, Mich.
 Gregg, M. & Son, Rochester, N. Y.
 Grover, Jno. B. File Co., Nashua, N. H.
 Hankey, A. & Co., Rochdale, Mass., & 1213 Race, Phila., Pa.

Hardy, L. Co., Worcester, Mass.
 Holyoke Bar Co., Holyoke, Mass.
 Horne, J. H. & Sons Co. (Planing, etc.), Lawrence, Mass.

Kentucky Saw Works (J. B. Senior, Prop.), Louisville, Ky.

Lancaster Machine & Knife Works, Lancaster, Pa.

Lovejoy, D. & Son, 1 Cnshing, Lowell, Mass.
 Loyd, John Co., 558 Water, New York
 McNiece, Wm. & Son, 515 Cherry, Phila., Pa.

Mack & Co., Rochester, N. Y.
 Mitts & Merrell, Saginaw, Mich.
 Moss & Graham, 224 Centre, New York
 Munson Co., Grand Rapids, Mich.

National Saw Co., Newark, N. J.
 Ohio Knife Co., Cincinnati, O.
 Oldham, Joshua & Sons, 114 26th, Brooklyn, N.Y.

Otis Tool Co., Columbus, O.
 Penfield Saw Works, Bristol, Conn.
 Pittsburg Shear, Knife & Machine Co., 47th & av R R, Pittsburg, Pa.

Rowe & Trummel, 123 W 2d, Cincinnati, O.
 Russell, John B., Napanoch, N. Y.
 Sandusky Tool Co. (Planer, etc.), Sandusky, O.

Simonds, A. A. & Son Co., Dayton, O.
 Simonds Mfg. Co., Fitchburg, Mass.
 Simonds Saw Co., 33 Market, San Francisco, Cal.

Snell & Atherton, Brockton, Mass.
 Southern Saw Works, Atlanta, Ga.
 Stiles, Taylor & Co., Riegelsville, N. J.

Stortz, Jno. & Son, 210 Vine, Philadelphia, Pa.
 Stubbs, Simeon K., 32 Kemble, Boston, Mass.
 Taylor Bros. & Co., Fulton, N. Y.

Thomson, W. S., 418 W 27th, New York
 Toland & Son, Baltimore, Md.
 Toledo Saw Co., Toledo, O.

White, L. & I. J. Co., 143 Perry, Buffalo, N. Y.
 Willott, J. & Sons, Manitowoc, Wis.
 Worden Tool Co., 1854 Scranton rd, Cleveland, O.

*Knives (Machine, General)

COES, LORING & CO. (Inc.), Worces-
 ter, Mass. (See adv. index, end of book)

Knives (Machine, Wood Working)

Atkins, E. C. & Co. (Inc.), Home Offices & Factories, Indianapolis, Ind.
COES, LORING & CO. (Inc.), Worces-
 ter, Mass. (See adv. index, end of book)
 Foster Bros. & Chatillon Co., Fulton, New York
 Taylor Bros. & Co., Fulton, N. Y.

*Knives (Marble Cutter Bit)

COES, LORING & CO. (Inc.), Worces-
 ter, Mass. (See adv. index, end of book)

Knives (Matcher)

Atkins, E. C. & Co. (Inc.), Home Offices & Factories, Indianapolis, Ind.
COES, LORING & CO. (Inc.), Worces-
 ter, Mass. (See adv. index, end of book)
 Hankey, A. & Co., Rochdale, Mass., & 1213 Race, Phila., Pa.
 Taylor Bros. & Co., Fulton, N. Y.

*Knives (Meat Slicer)

COES, LORING & CO. (Inc.), Worces-
 ter, Mass. (See adv. index, end of book)

*Knives (Metal Shear)

COES, LORING & CO. (Inc.), Worces-
 ter, Mass. (See adv. index, end of book)

Knives (Mincing)

Arcade Mfg. Co., Freeport, Ill.
 Browne & Dowd Mfg. Co. ("B & D Co."), Meriden, Conn.

Kilbourne Mfg. Co., Troy, N. Y.
 Landers, Frary & Clark, New Britain, Conn.
 New England Specialty Co., North Easton, Mass.

Potter Mfg. Co., Geneva, O. "Potter"

*Knives (Mitre)

COES, LORING & CO. (Inc.), Worces-
 ter, Mass. (See adv. index, end of book)

Knives (Moulding Machine)

Atkins, E. C. & Co. (Inc.), Home Offices & Factories, Indianapolis, Ind.
 Chicago Knife Works, 179 S Clinton, Chicago, Ill.

COES, LORING & CO. (Inc.), Worces-
 ter, Mass. (See adv. index, end of book)

Foucart, J. B., Williamsport, Pa.
 Hankey, A. & Co., Rochdale, Mass., & 1213 Race, Phila., Pa.

Mack & Co., Rochester, N. Y.
 Simonds, A. A. & Son Co., Dayton, O.
 Taylor Bros. & Co., Fulton, N. Y.
 Worden Tool Co., Cleveland, O.

Knives (Mower & Reaper)

Akron Machine Co., Akron, O.
 Henry & Allen, Auburn, N. Y.
 Herschel, R. Mfg. Co., Peoria, Ill.
 F. C. Mason & Co., St. Johns, Mich.
 Whitaker Mfg. Co., 30 W. Monroe, Chicago, Ill.

WHITMAN & BARNES MFG. CO.,
 Chicago, Ill. (See adv. index & branch offices, end of book)

Knives (Oil Cloth)

Braunsdorf-Mueller Co., Elizabeth, N. J.
 Harrington Cutlery Co. ("Dexter"), Southbridge, Mass.
 Tuck Mfg. Co., Brockton, Mass.

*Knives (Overlay)

COES, LORING & CO. (Inc.), Worces-
 ter, Mass. (See adv. index, end of book)

Knives (Oyster & Clam)

Carver Tool Works (Carver's), Spring Valley, N. Y.
Clyde Cutlery Co., Clyde, Ohio
Dame, Stoddard & Co. ("R. Murphy's"), Boston, Mass.
Foster Bros. & Chatillon Co., Fulton, N. Y.
Harrington Cutlery Co. ("Dexter"), Southbridge, Mass.
Johnson, Wm. (Hedenberg Works), Newark, N. J.
Landers, Frary & Clark, New Britain, Conn.
Matthew, George, Mansfield, Mass.
Richard, Stephen Co. ("S. R."), Southbridge, Mass.
Tuck Mfg. Co., Brockton, Mass.
Vaughn & Bushnell ("V. & B."), Chicago, Ill.

Knives (Painters')

Lamson & Goodnow Mfg. Co., Shelburne Falls, Mass.

*Knives (Panel Raising)

COES, LORING & CO. (Inc.), Worcester, Mass. (See adv. index, end of book)

Knives (Paper)

American Knife Co., Baldwinsville, N. Y.
Atkins, E. C. & Co. (Inc.), Home Offices & Factories, Indianapolis, Ind.
Cleveland Machine Knife Co., 5 West, Cleveland, O.
COES, LORING & CO. (Inc.), Worcester, Mass. (See adv. index, end of book)
Foster Bros. & Chatillon Co., Fulton, N. Y.
Jacques, John & Son, Worcester, Mass.
Mack & Co., Rochester, N. Y.
Taylor Bros. & Co., Fulton, N. Y.

*Knives (Paper Box Machine)

COES, LORING & CO. (Inc.), Worcester, Mass. (See adv. index, end of book)

Knives (Paper Cutter)

COES, LORING & CO. (Inc.), Worcester, Mass. (See adv. index, end of book)
Hankey, A. & Co., Rochdale, Mass., & 1213 Race, Phila., Pa.
Lancaster Machine & Knife Works, Lancaster, N. Y.
Simonds, A. A. & Son Co., Dayton, O.
Taylor Bros. & Co., Fulton, N. Y.
Worden Tool Co., Cleveland, O.

Knives (Paper Hangers')

American Cutlery Co., 193 Mather, Chicago, Ill.
Clyde Cutlery Co., Clyde, O.
Dame, Stoddard & Co. ("R. Murphy's"), Boston, Mass.
Harrington Cutlery Co. ("Dexter"), Southbridge, Mass.
Kimball, C. J. Co., Bennington, N. H.
Landers, Frary & Clark, New Britain, Conn.
Northampton Cutlery Co., Northampton, Mass.
Richard Stephen Co. ("S. R."), Southbridge, Mass.
Stortz, John & Son, 210 Vine, Phila., Pa.
Tuck Mfg. Co., Brockton, Mass.

Knives (Paring)

American Cutlery Co., 193 Mather, Chicago, Ill.
AMERICAN TAP & DIE CO., Greenfield, Mass. (See adv. index, end of book)
Cassady-Fairbank Mfg. Co., 6106 La Salle, Chicago, Ill.
Clausen Shear Co. ("Clausen"), Fremont, O.
Edmonds-Metzel Mfg. Co. ("Perpetual"), 155 S. Jefferson, Chicago, Ill.
Phoenix Hardware Mfg. Co., Homer, N. Y.

Knives (Planer)

American Knife Co., Baldwinsville, N. Y.
Atkins, E. C. & Co. (Inc.), Home Offices & Factories, Indianapolis, Ind.
Chicago Knife Works, 179 S. Clinton, Chicago, Ill.
Cleveland Machine Knife Co., 5 West, Cleveland, O.
COES, LORING & CO. (Inc.), Worcester, Mass. (See adv. index, end of book)
Curtis & Co. Mfg. Co. ("Empire"), St. Louis, Mo.
Donaldson Saw Co., Rock Island, Ill.
Hankey, A. & Co., Rochdale, Mass., & 1213 Race, Phila., Pa.

Lancaster Machine & Knife Works, Lancaster, Mack & Co., Rochester, N. Y.
Sandusky Tool Co., Sandusky, O.
Simonds, A. A. & Son Co., Dayton, O.
Taylor Bros. & Co., Fulton, N. Y.
Simonds Mfg. Co., Fitchburg, Mass.
Worden Tool Co., 1854 Scranton road, Cleveland, O.

*Knives (Plush)

COES, LORING & CO. (Inc.), Worcester, Mass. (See adv. index, end of book)

Knives (Pocket)

(See Cutlery Mfrs.)

Knives (Putty)

American Cutlery Co., 193 Mather, Chicago, Ill.
Bonney Vise & Tool Works (Inc.), 3015 Chestnut, Phila., Pa.
Bridgeport Hardware Mfg. Co., Bridgeport, Conn.
Browne & Dowd Mfg. Co. ("B. & D. Co."), Goodell Co., Antrim, N. H.
Harrington Cutlery Co. ("Dexter"), Southbridge, Mass.
Kimball, C. J. Co., Bennington, N. H.
Landers, Frary & Clark, New Britain, Conn.
Meriden Cutlery Co., Meriden, Conn.
National Cutlery Co., Lawton & M. C. R. R., Detroit, Mich.
Northampton Cutlery Co., Northampton, Mass.
Richard, Stephen Co. ("S. R."), Southbridge, Mass.
Springfield Machine Screw Co. ("Diamond"), Chicopee, Mass.
Stortz, John & Son, 210 Vine, Phila., Pa.

Knives (Rag Cutter)

COES, LORING & CO. (Inc.), Worcester, Mass. (See adv. index, end of book)
Dunn Edge Tool Co., Oakland, Me.
Hankey, A. & Co., Rochdale, Mass., & 1213 Race, Phila., Pa.
Simonds, A. A. & Son Co., Dayton, O.
Simonds Mfg. Co., Fitchburg, Mass.
Taylor Bros. & Co., Fulton, N. Y.
Worden Tool Co., Cleveland, O.

*Knives (Rand)

COES, LORING & CO. (Inc.), Worcester, Mass. (See adv. index, end of book)

*Knives (Rattan)

COES, LORING & CO. (Inc.), Worcester, Mass. (See adv. index, end of book)

*Knives (Roll Scraper)

COES, LORING & CO. (Inc.), Worcester, Mass. (See adv. index, end of book)

*Knives (Scarfer)

Blake & Johnson, Waterbury, Conn.

Knives (Rubber)

Richard, Stephen Co. ("S. R."), Southbridge, Mass.
Tuck Mfg. Co. (for Heavy Electrical Rubber Goods), Brockton, Mass.

*Knives (Scarfer)

COES, LORING & CO. (Inc.), Worcester, Mass. (See adv. index, end of book)

Knives (Scraper)

American Cutlery Co., 193 Mather, Chicago, Ill.
Landers, Frary & Clark, New Britain, Conn.
Northampton Cutlery Co., Northampton, Mass.

Knives (Shear Cutter)

COES, LORING & CO. (Inc.), Worcester, Mass. (See adv. index, end of book)
Hankey, A. & Co., Rochdale, Mass., & 1213 Race, Phila., Pa.
Simonds, A. A. & Son Co., Dayton, O.

*Knives (Sheet Steel)

COES, LORING & CO. (Inc.), Worcester, Mass. (See adv. index, end of book)

Knives (Shingle)

Atkins, E. C. & Co. (Inc.), Home Offices & Factories, Indianapolis, Ind.
Bradley's, G. W. Sons (Inc.), Westport, Conn.
COES, LORING & CO. (Inc.), Worcester, Mass. (See adv. index, end of book)
Mack & Co., Rochester, N. Y.
Taylor Bros. & Co., Fulton, N. Y.
Worden Tool Co., 1854 Scranton road, Cleveland, O.

Knives (Shoe)

American Cutlery Co., 193 Mather, Chicago, Ill.
Dame, Stoddard & Co. ("R. Murphy's"), Boston, Mass.
Harrington Cutlery Co. ("Dexter"), Southbridge, Mass.
Harrington, T. J., Southbridge, Mass.
Hyde Mfg. Co., Southbridge, Mass.
Kimball, C. J. Co., Bennington, N. H.
Landers, Frary & Clark, New Britain, Conn.
Meriden Cutlery Co., Meriden, Conn.
New England Specialty Co., N. Easton, Mass.
Richard, Stephen Co. ("S. R."), Southbridge, Mass.
Tuck Mfg. Co. ("S. V. Tuck," "T. M. Co.," "Black Diamond"), Brockton, Mass.

Knives (Shredder)

Akron Machine Co., Akron, O.
American Knife Co., Baldwinsville, N. Y.
COES, LORING & CO. (Inc.), Worcester, Mass. (See adv. index, end of book)
Henry & Allen, Auburn, N. Y.

*Knives (Skiver)

COES, LORING & CO. (Inc.), Worcester, Mass. (See adv. index, end of book)

Knives (Slaw & Vegetable)

Atkins, E. C. & Co. (Inc.), Home Offices & Factories, Indianapolis, Ind.
COES, LORING & CO. (Inc.), Worcester, Mass. (See adv. index, end of book)

Knives (Solid Steel Shear)

Crucible Steel Co. of America (La Belle Steel), Frick bldg, Pittsburg, Pa.
Heppenstall Forge & Knife Co., Pittsburg, Pa.
Tretheway, Samuel & Co. (Ltd.), 47th nr Butler, Pittsburg, Pa.

*Knives (Spiral, of All Classes)

COES, LORING & CO. (Inc.), Worcester, Mass. (See adv. index, end of book)

*Knives (Spiral Tenon)

COES, LORING & CO. (Inc.), Worcester, Mass. (See adv. index, end of book)

*Knives (Splitter)

COES, LORING & CO. (Inc.), Worcester, Mass. (See adv. index, end of book)

Knives (Spoke Lathe)

Atkins, E. C. & Co. (Inc.), Home Offices & Factories, Indianapolis, Ind.
COES, LORING & CO. (Inc.), Worcester, Mass. (See adv. index, end of book)
Hankey, A. & Co., Rochdale, Mass., & 1213 Race, Phila., Pa.
Sandusky Tool Co., Sandusky, O.
Taylor Bros. & Co., Fulton, N. Y.

Knives (Sportsmen's)

Billings & Spencer Co. ("Billings"), Hartford, Conn.

Knives (Stave Cutter)

Atkins, E. C. & Co. (Inc.), Home Offices & Factories, Indianapolis, Ind.
Bradley's, G. W. Sons (Inc.), Westport, Conn.
Cleveland Machine Knife Co., 5 West, Cleveland, O.
COES, LORING & CO. (Inc.), Worcester, Mass. (See adv. index, end of book)
Taylor Bros. & Co., Fulton, N. Y.
Worden Tool Co., 1854 Scranton road, Cleveland, O.

***Knives (Stereotype)**

COES, LORING & CO. (Inc.), Worcester, Mass. (See adv. index, end of book)

***Knives (Stop Cutter)**

COES, LORING & CO. (Inc.), Worcester, Mass. (See adv. index, end of book)

Knives (Straw Cutter)

COES, LORING & CO. (Inc.), Worcester, Mass. (See adv. index, end of book)
Hankey, A. & Co., Rochdale, Mass., & 1213 Race, Phila., Pa.
Taylor Bros. & Co., Fulton, N. Y.
Worden Tool Co., Cleveland, O.

***Knives (Tack Machine)**

COES, LORING & CO. (Inc.), Worcester, Mass. (See adv. index, end of book)

Knives (Tanners' Skiving)

COES, LORING & CO. (Inc.), Worcester, Mass. (See adv. index, end of book)
Foster Bros. & Chatillon Co., Fulton, N. Y.

***Knives (Textile Shear)**

COES, LORING & CO. (Inc.), Worcester, Mass. (See adv. index, end of book)

Knives (Tobacco)

American Cutlery Co., 193 Mather, Chicago, Ill.
American Knife Co., Baldwinville, N. Y.
AMERICAN TAP & DIE CO., Greenfield, Mass. (See adv. index, end of book)
Atkins, E. C. & Co. (Inc.), Home Offices & Factories, Indianapolis, Ind.
Clyde Cutlery Co. (Beech Handle), Clyde, O.
COES, LORING & CO. (Inc.), Worcester, Mass. (See adv. index, end of book)
Hankey, A. & Co., Rochdale, Mass., & 1213 Race, Phila., Pa.
Lancaster Machine & Knife Works, Lancaster, Mack & Co., Rochester, N. Y.
Oldham, Joshua & Sons (Ltd.), 112 26th, Brooklyn, N. Y.
Russell, Jno. B. ("Diamond Eagle"), Napanoch, Simonds Mfg. Co., Fitchburg, Mass.
Worden Tool Co., Cleveland, O.

Knives (Veneer)

Atkins, E. C. & Co. (Inc.), Home Offices & Factories, Indianapolis, Ind.
Cleveland Machine Knife Co., 5 West, Cleveland, O.
COES, LORING & CO. (Inc.), Worcester, Mass. (See adv. index, end of book)
Hankey, A. & Co., Rochdale, Mass., & 1213 Race, Phila., Pa.
Lancaster Machine & Knife Works, Lancaster, Taylor Bros. & Co., Fulton, N. Y.
Worden Tool Co., Cleveland, O.

Knives (Wood Barking Machine)

Atkins, E. C. & Co. (Inc.), Home Offices & Factories, Indianapolis, Ind.
COES, LORING & CO. (Inc.), Worcester, Mass. (See adv. index, end of book)
Taylor Bros. & Co., Fulton, N. Y.

Knives (Wood Flooring Machine)

Atkins, E. C. & Co. (Inc.), Home Offices & Factories, Indianapolis, Ind.
Chicago Knife Works, 179 S Clinton, Chicago, Ill.
COES, LORING & CO. (Inc.), Worcester, Mass. (See adv. index, end of book)
Simonds, A. A. & Son Co., Dayton, O.
Taylor Bros. & Co., Fulton, N. Y.

Knives (Wood Pulp)

Atkins, E. C. & Co. (Inc.), Home Office & Factories, Indianapolis, Ind.
COES, LORING & CO. (Inc.), Worcester, Mass. (See adv. index, end of book)
Taylor Bros. & Co., Fulton, N. Y.

Knives (Wood Surfacing Machine)

Atkins, E. C. & Co. (Inc.), Home Offices & Factories, Indianapolis, Ind.
COES, LORING & CO. (Inc.), Worcester, Mass. (See adv. index, end of book)
Simonds, A. A. & Son Co., Dayton, O.
Taylor Bros. & Co., Fulton, N. Y.

Knives (Wood Tenoning Machine)

COES, LORING & CO. (Inc.), Worcester, Mass. (See adv. index, end of book)
Taylor Bros. & Co., Fulton, N. Y.

***Knives (Wood Trimming Machine)**

COES, LORING & CO. (Inc.), Worcester, Mass. (See adv. index, end of book)

Knives & Cutters (Serrated)

Rotary File & Machine Co., 589 Kent av, Brooklyn, N. Y.

Knobs (Base)

Champion Safety Lock Co. ("Champion" Metallic "Neverbreak"), Geneva, O.

Knobs (Carpet)

Wilcox, Crittenden & Co. (Brass Heads, Wrought Nails; also Grommets), Middletown, Conn.

Knockers (Door)

Reading Hardware Co., Reading, Pa.
Russell & Erwin Mfg. Co., New Britain, Conn.
Sargent & Co., New Haven, Conn.

Knuckles (Steel)

Buckeye Steel Castings Co., Columbus, O.
Chester Steel Castings Co., Chester, Pa., & 407 Sansom, Phila., Pa.
Gould Coupler Co., 1 W 34th, New York
Insert Knuckle Co. (Insert Knuckles), Indianapolis, Ind.
National Car Coupler Co. ("Hinsou Emergency"), Monadnock blk, Chicago, Ill.
Quincy - Manchester - Sargent Co. ("Gilman-Brown" Emergency Car Coupler), Old Colony bldg, Chicago, Ill., & 114 Liberty, New York

Knurls

Braunsdorf-Mueller Co., Elizabeth, N. J.
Springfield Machine Screw Co., Chicopee, Mass.

Krushite (For Sawing Stone)

Frenier, J. H. & Son, Rutland, Vt.

Label Manufacturers

American Label Mfg. Co., Baltimore, Md.
Kittredge, R. J. & Co., 103 W Superior & Green, Chicago, Ill.
Maryland Color Printing Co., Baltimore, Md.
U. S. Printing Co., 290 B'way, N. Y., & 6th & Lock, Cincinnati, O.

***Laboratories (Chemical & Physical)**

LUNKENHEIMER CO., General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

Laboratory Apparatus & Supplies

Eimer & Amend, 205 3d av, New York
International Instrument Co., 23 Church, Cambridge, Mass.
KOVEN, L. O. & BRO., 50 Cliff, New York. (See adv. index, end of book)
Scientific Materials Co., Pittsburg, Pa.

Lace Leather

(See Belt Lacing)

Lacquer Mfrs.

Acme White Lead & Color Works, Detroit, Mich.
American Lacquer Co., Bridgeport, Conn.
Chicago Wood Finishing Co., 259 Elston, Chicago, Ill.
Cooper, Chas. & Co., 194 Worth, New York
Cullen, F. C. & Co., 704 W Lake, Chicago, Ill.
Egyptian Lacquer Mfg. Co., 152 Front, New York
Feigel, M. & Bro. (Importers), 147 Wooster, New York
Forest City Paint & Varnish Co., Cleveland, O.
FRENCH, SAMUEL H. & CO., 4th & Callowhill, Phila., Pa. (See adv. index, end of book)
Hanson & Van Winkle Co., Newark, N. J.
Hommel, O. Co., 400 Duquesne Way, Pittsburg, Pa.
Lucas, Jno. & Co., 322 Race, Philadelphia, Pa.
Moller & Schumann, Marcy & Flushing av, Brooklyn, N. Y.
New Era Lustre Co., New Haven, Conn.
Nikolas, G. J. & Co. ("Nikolas"), 400 W Van Buren, Chicago, Ill.
Schlegel, Oscar Mfg. Co., 111 E 12th, New York
STANDARD VARNISH WORKS, 29 B'way, New York. (See adv. index & branch offices, end of book)
Stoeckel, R. E., 2449 3d av, New York
Zucker & Levett & Loeb Co., 526 W 25th, New York

***Lacqueret Household Lacquer**

STANDARD VARNISH WORKS, 29 B'way, New York. (See adv. index & branch offices, end of book)

Lacquering for the Trade

Buckeye Electro Plating Co., Mansfield, O.
Grosback, Wm. & Co., 37 Maspeth av, Brooklyn, N. Y.

Lacquers (Anti Rust)

Atlas Paint Co., 2638 Liberty av, Pittsburg, Pa.
Vacuum Varnish & Chemical Co. (Acid-Proof Steel), E. Norwalk, Conn.

Lacquers (Machine)

UNITED STATES GUTTA PERCHA Paint Co. (Rice's or Egg Shell, Gloss Enamel), 12-30 Dudley, Providence, R. I.

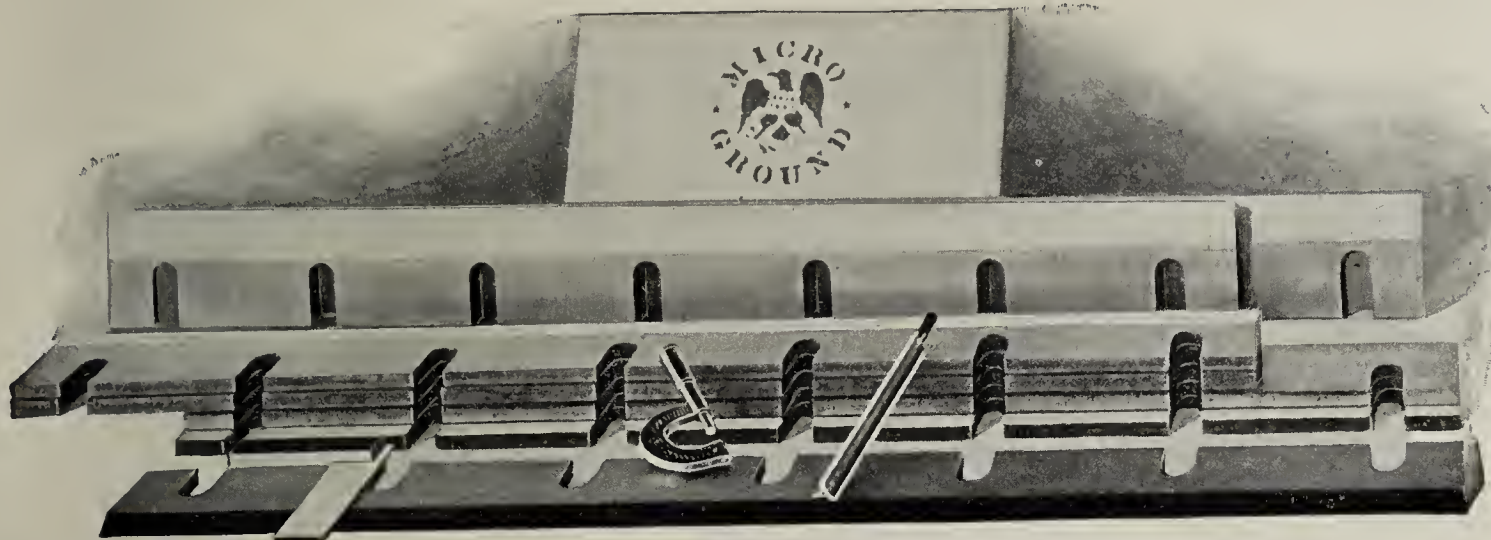
Ladder Rounds (Miners')

Sandusky Tool Co., Sandusky, O.

Ladders

American Mfg. & Novelty Co. (Of all kinds), Erie, Pa.
Bacon & Co. (Inc.) ("Neagora" extension, fruit, etc.), Appleton, N. Y.
Bangor Extension Ladder Co., 27 Bangor, Bangor, Me.
Berg, Jno. & Bro. (Extension), Wentworth, 50th & 5th av, Chicago, Ill.
Berger Bros. Co. (The "Perfection" Extension), 237 Arch, Phila., Pa.
Brand, Geo., Jr., 672 4th, Oakland, Cal.
Brown, Jno. K. & Co., 181 3d av, Brooklyn, N. Y.
Canton Ladder Co. (Extension), Canton, O.
Chandelier & Art Brass Works (Step, Galvanized Sheet Metal), Richmond, Ind.
Chesebro, Whitman & Co., 1167 1st av, N. Y.
CHICAGO MILL WORK SUPPLY CO., cor. 22d & Sangamon, Chicago, Ill. (See adv. index, end of book)
Combination Ladder Co., 366 Fountain, Providence, R. I.
Corbett & Co., 429 E 109th, New York
Dilman, I. M. Mfg. Co., 524 Tel av, Oakland, Cal.
Drake, M. J., 11 Jeff'n, Brooklyn, N. Y.
Eari, F. H. Mfg. Co. (Step & Extension), Plano, Ill.
Excelsior Ladder Co., Elmira, N. Y.
Frizell Ladder Co. (Step & Extension Ladders, etc.), 135 Granite av, Boston, Mass.
Goshen Mfg. Co., Goshen, Ind.

ESTABLISHED 1830



TRADE



MARK

MACHINE KNIVES.

THE ACME OF ACCURACY

COES WARRANT (WRITTEN)

AND THE BEST OF MATERIAL.

Write



LORING COES & CO., INCORPORATED,

Dept. Coes Wrench Co.,

WORCESTER, MASS., U. S. A.

NEW YORK OFFICE - G. V. ALLEN, 10 Warren Street.



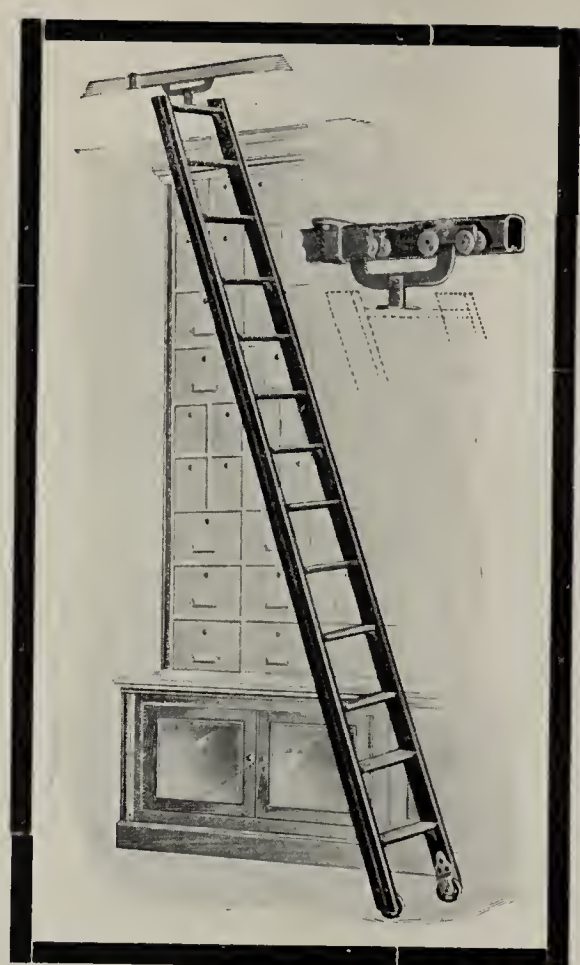
A Ladder Is A Necessity

If you would
boast of an up-to-date
reputation.

Now, as to the kind;
which is the most impor-
tant question.

Naturally, you want the
simplest, yet most service-
able. Our ladders are
built to take care of your
service most acceptably.

SEND FOR
No. 22 CATALOGUE



Coburn Trolley Track Mfg. Co., = = Holyoke, Mass.

NOTE WELL

Architects enjoy the special, constant and FREE USE of our
BUREAU OF INFORMATION, as well as all advertisers and
subscribers. : : : : : : : : :

Whenever an Architect or Subscriber is at a loss to know the
name and address of a Manufacturer of a given article he de-
sires to specify or purchase, this Bureau will, on application,
see that his means of access to such Manufacturer are rendered
easy, accurate and IMMEDIATE. : : : : :

S. E. HENDRICKS COMPANY

Hercules Specialty Co. (Sectional Extension, Step, etc.), Erie, Pa.
 Holmquist & Co., 99 N Lincoln, Chicago
 Indiana Bent Rung Ladder Co. (Step, Extension, Sectional, etc.), Indiana, Pa.
 Indiana Bent Rung Ladder Co. (Single, Extension, Step, etc.), Indiana, Pa.
 Indiana Ladder Co., Indiana, Pa.
 I. X. L. & Goshen Pump Co., Goshen, Ind.
 Lonsby, J. & Son (Extension, etc.), Mt. Clemens, Mich.

McCABE HANGER MFG. CO. (McCabe Tubular Store), 425 W 25th, New York. (See adv. index, end of book)

Macomber Bros., Eastbrook, Me.
 Michael, Chas. H. Mfg. Co., Laporte, Ind.
 Miller, Edward, ft of E 109th, New York
 Miller Ladder Co. (Step, Painters', Extension, Fruit Pickers', Paper Hangers', etc.), 72 Ogden pl, Chicago, Ill.

Moulton, C. W. & Co. (Extension, Folding, Self-Supporting, Section, Window Cleaning Step, Long Pole, etc.), Somerville, Mass.

N. Y. Ladder Co., 580 Hudson, New York
 Noyes, W. H., 154 1st, Newark, N. J.
 Phila. Ladder Mfg. Co., 9th & Thompson, Phila., Pa.

Pierce, W. E. & Co., Milton, N. H.
 Pierce & Jewett (Step), Forestville, N. Y.
 Portland Extension Ladder Co. ("Flying Yankee" Extension, for Railroads, Electric & Telegraph Companies), 130 Orange, Newark, N. J.

Reissler, Andrew, 248 W Houston, N. Y.
 Roberts, E. L. & Co. (Step, Extension, etc.), W 221 & Union pl, Chicago
 Specialty Mfg. Co., Titusville, Pa.

Thley, John S., 114 2d, Watervliet, N. Y.
 Tupper, Jno. (All kinds), 11 Ingalls, Lynn, Mass.

Udell Works (Step & Extension), Indianapolis, Ind.

Union Blind & Ladder Co. (Step, Orchard & Extension), 328 Howard, San Francisco, Cal.
 Weld, F. D. (Extension), Somerville, Mass.
 Whitehurst, R. W. Co., Norfolk, Va.

Ladders (Extension Scaffold)

Hercules Specialty Co., Erie, Pa.
 Portland Extension Ladder Co., 130 Orange, Newark, N. J.

Ladders (Folding Roof)

Danzer Metal Works, Hagerstown, Md.

Ladders (Rolling & Trolley)

Allith Mfg. Co. ("Reliable"), W Taylor & S 43d av, Chicago, Ill.

Bicycle Step Ladder Co., 65 Randolph, Chicago, Ill.

Calander, Jno., 148 8th, St. Paul, Minn.
COBURN TROLLEY TRACK MFG. CO., Holyoke, Mass. (See adv. index, end of book)

Ebbing Mfg. Co. (Successors to G. A. Milbrandt & Co.) ("Milbrandt" Rolling Step Ladders & Tracks), 1924 N B'way, St. Louis, Mo.
 Lane Bros. Co., Poughkeepsie, N. Y.

McCABE HANGER MFG. CO. (Tubular, etc.), 425 W 25th, New York. (See adv. index, end of book)

Morley Bros. (Inc.) (Rolling), Saginaw, Mich.
 Myers, F. E. & Bro., Ashland, O.
 Portland Extension Ladder Co. (Trolley), 130 Orange, Newark, N. J.

Putnam & Co. ("Putnam"), 244 Water, N. Y.
RICHARDS MFG. CO., Aurora, Ill. (See adv. index & branch offices, end of book)

Warren, J. D. Mfg. Co., Masonic Temple, Chicago, Ill.

WILCOX MFG. CO. (Ceiling & Shelf Rolling), Aurora, Ill. (See adv. index, end of book)

Ladders (Steel)

Barnum, E. T. Wire & Iron Works, Detroit, Mich.

Cornell, J. B. & J. M. Co., 26th & 11th av, N. Y.
 Myers, F. E. & Bro., Ashland, O.

Ladders (Store Sliding)

(See Ladders, Rolling & Trolley.)

Ladders & Trucks (Firemen's)

Portland Extension Ladder Co. (Safety Trussed), 130 Orange, Newark, N. J.

Ladle Sleeves & Nozzles

Swank's, H. Sons (Fire Brick), Johnstown, Pa.

*Ladles (Bessemer Plant)

WHITING FOUNDRY EQUIPMENT Co., Harvey, Ill. (See adv. index & branch offices, end of book)

Ladles (Cinder Car)

(See Ladles, Slag.)

Ladles (Crane or Truck)

Cleveland Car Co., West Park, O.
KOPPEL, ARTHUR CO., 68 Broad, New York. (See adv. index & branch offices, end of book)

RUSSEL WHEEL & FOUNDRY CO., Detroit, Mich. (See adv. index, end of book)

WHITING FOUNDRY EQUIPMENT Co., Harvey, Ill. (See adv. index & branch offices, end of book)

WIENER, ERNST CO., 68 Broad, New York. (See adv. index, end of book)

Ladles (Foundry)

Byram & Co. (Inc.), (15 to 35,000 Pounds), 435 Guoin, Detroit, Mich.

Carroll-Porter Boiler & Tank Co., Pittsburg, Pa.
 Columbiana Boiler Co., Columbiana, O.

Meehan Boiler & Construction Co., Lowell, Niles Boiler Co., Niles, O.

NORTHERN ENGINEERING WORKS, Detroit, Mich. (See adv. index, end of book)

Ogden, J. Edward Co., 147 Cedar, New York
OSBORN MFG. CO., 5401 Hamilton av, N. E., Cleveland, O. (See adv. index, end of book)

PETROLEUM IRON WORKS CO., Washington, Pa., & Farmers' Bank bldg, Pittsburg, Pa. (See adv. index, end of book)

Pollock, Wm. B. Co., Youngstown, O. (See adv. index, end of book)

REEVES BROS. CO., Alliance, O. (See adv. index, end of book)

Riter-Conley Mfg. Co., Pittsburg, Pa.
RUSSEL WHEEL & FOUNDRY CO., Detroit, Mich. (See adv. index, end of book)

Scannell Boiler Works, Lowell, Mass. (See adv. index, end of book)

SMITH, J. D. FOUNDRY SUPPLY CO., 1581 Columbus rd, N. W., Cleveland, O. (See adv. index, end of book)

Stewart Boiler Works, Worcester, Mass.
 Union Boiler & Mfg. Co., Lebanon, Pa.

Union Foundry & Machine Co. (South Side), Pittsburg, Pa.

Warren City Boiler Works, Warren, O.

WHITING FOUNDRY EQUIPMENT Co., Harvey, Ill. (See adv. index & branch offices, end of book)

Ladles (Melting & Plumbers')

BERNZ, OTTO, S 13th & S Orange av. Newark, N. J. (See adv. index, end of book)

Clark, W. J. Co., Salem, O.

Clayton & Lambert Mfg. Co., Detroit, Mich.
 Dicke Tool Co., Downers' Grove, Ill.

Holland Mfg. Co., Erie, Pa.
 Holland, Wm., 60 S Canal, Chicago, Ill.

Johnson, Wm. (Hedenberg Works), (Plumbers'), Newark, N. J.

Knapp Mfg. Co., 22 Frankfort, New York
 Lalance & Grosjean Mfg. Co. (Wrought Steel), 19 Cliff, New York

Loetzer Valve & Mfg. Co. (Seamless Plate Steel), Towanda, Pa.

National Novelty Corp., 826 B'way, New York
 Peck, Stow & Wilcox Co., Southington, Conn.

Racine Malleable Wrought Iron Co., Racine, Reading Hardware Co., Reading, Pa.

Union Heater Supply Co., Detroit, Mich.

Ladles (Mining)

Power & Mining Machinery Co. (Heavy Steel Plate), 52 William, N. Y. Works, Cudahy, Wis.

Ladles (Open Hearth & Bessemer Plant)

Carroll Porter Boiler & Tank Co., Empire bldg, Pittsburg, Pa. Works, Wellsville, O.
 Columbiana Boiler Co., Columbiana, Ohio

Girard Boiler & Mfg. Co., Girard, O.
 Munroe, R. & Sons Corporation, 23d & Smallman, Pittsburg, Pa.

Penna. Engineering Works, New Castle, Pa.

PETROLEUM IRON WORKS CO., Washington, Pa., & Farmers' Bank bldg, Pittsburg, Pa. (See adv. index, end of book)

Pollock, Wm. B. Co., Youngstown, O. (See adv. index, end of book)

WHITING FOUNDRY EQUIPMENT Co., Harvey, Ill. (See adv. index & branch offices, end of book)

*Ladles (Slag)

Union Boiler & Mfg. Co., Lebanon, Pa.
WELLMAN-SEEVER-MORGAN CO. ("Dewhurst"), Cleveland, O., & Akron, O. (See adv. index, end of book)

Lagging (Hardwood)

DODGE MFG. CO., Mishawaka, Ind. (See adv. index & branch offices, end of book)

Lamp Black Mfrs.

Beacon, J. W., Randolph, N. Y., & Hosgrove, Pa.

Bihn & Wolff Co., Almond & Ash, Phila., Pa.
 Binney & Smith Co., 81 Fulton, New York

CABOT, SAMUEL, 141 Milk, Boston, Mass. (See adv. index & branch offices, end of book)

Davidson, Jas. H. (Inc.) 239 Front, New York
 Eddy's, Titus Son, Troy, N. Y.

Lyons, Jas., Evergreen, Borough of Queens, New York

Martin, L. & Wilkes Co., 135 William, New York

Wegelin & Wilkes Black Mfg. Co., 135 William, New York. Works: Camden, N. J.

Lamp (Cords)

(See Cords, Flexible)

Lamp Posts

Belmont Iron Works, 2215 Wash'n av, Phila., Pa.

BETHLEHEM FOUNDRY & MACHINE Co., Front, South Bethlehem, Pa., & 149 B'way, New York. (See adv. index, end of book)

CHAMPION IRON CO., Kenton, O. (See adv. index, end of book)

Clow, Jas. B. & Sons, 344 Franklin, Chicago.
 Concord Foundry Co., Concord, N. H.

Cornell, J. B. & J. M. Co., 26th & 11th av, N. Y.

Creswell, S. J. Iron Works, 23d & Cherry, Phila., Pa.

Davis & Farnum Mfg. Co., Waltham, Mass.
 Davis & Thomas Co., Catasauqua, Pa.

Drummond, M. J. & Co., 182 B'way, New York
 Fliske, J. W., 39 Park pl, New York

Freeman, S. & Sons Mfg. Co., Racine, Wis.
 Globe Gas Light Co., Boston, Mass.

Hecla Iron Works, 118 N 11th, Brooklyn, N. Y.
JACKSON, WM. H. COMPANY, 29 E 17 (Union Square, New York. (See adv. index, end of book)

McMurray, Robt. & Bro., 365 Harman, Brooklyn, N.Y.

Miner, Thos. T. W., 821 Eagle av, New York
 Mott, J. L. Iron Works, 118 5th av, New York

Paxon & Vierling Iron Works, Omaha, Neb.
 Penna. Globe Gas Light Co., Broad & Arch, Phila., Pa.

Richey, Browne & Donald (& Bronze), Maspeth, Borough of Queens, N. Y.

Rittenhouse, C. & Sons, Norristown, Pa.

SMITH, F. P. WIRE & IRON WORKS, 100 Lake, Chicago. (See adv. index, end of book)

Smith, G. W. & F. Iron Co., Boston, Mass.
 Smyser's, E. G. Sons, York, Pa., & Baltimore, Md.

SNEAD & CO. IRON WORKS, ft. of Pine, Jersey City. (See adv. index, end of book)

Stacey Mfg. Co., Elmwood pl, Cincinnati, O.
 Sun Vapor Street Light Co., Canton, N. Y.

Transcendent Lamp Co. ("Transcendent"), 134 Mott, New York

Westervelt, A. B. & W. T., 102 Chambers, New York

Wood, R. D. & Co., 400 Chestnut, Phila., Pa.

Lamp Posts (Electric Arc)

Turner Brass Works, 66 Michigan, Chicago, Ill.

*Lamp Replacers & Cleaners (Incandescent)

MORSE, FRANK W., 116 Bedford,
Boston, Mass. (See adv. index, end of book)

Lamp Sockets (Incandescent)

Brunt, G. F. Porcelain Works (Regulating),
East Liverpool, O.
Burdett-Rowntree Mfg. Co. (Ball Socket), 85
W Jackson boul, Chicago
Crescent Electrical Mfg. Co. (Waterproof),
Rochester, N. Y.
Crouse-Hinds Electric Co. ("Norbert" Water-
proof), Syracuse, N. Y.
Electrical Supply Co. (Hawkeye), Sioux City,
Ia.
Gilmore Electric Co., South Boston, Mass.
Hubbell, Harvey (Pendant Chain Pull), Bridge-
port, Conn.
Johns, H. W.-Manville Co., 100 William, N. Y.
Marshall-Sanders Co., 301 Congress, Boston,
Mass.
New England Electric Mfg. Co., West Somer-
ville, Mass.
Paiste, H. T. Co., 3101 Ludlow, Phila., Pa.
Perkins Electric Switch Mfg. Co., Bridgeport,
Conn.
Peru Electric Mfg. Co., Peru, Ind.
Pringle, W. T. ("Ries" Regulating), 112 N
12th, Phila., Pa.
Yost Electric Mfg. Co., Toledo, O.

Lamp Trimmers

Ives, H. B. Co. (The Barnard), New Haven,
Conn.

Lamps (Acetylene House)

Britelite Lamp Co., 45 B'way, New York

Lamps (Arc)

Adams-Bagnall Electric Co. ("A-B," Enclosed),
Cleveland, O.
American Arc Lamp Co., Kalamazoo, Mich.
Anderson, Albert & J. M. Mfg. Co. (Alternating
& Direct Enclosed Incan.), 287 A, S Boston,
Boston, Mass.
Ball Electric Co. ("Ball" System Enclosed),
71 Clymer, Brooklyn, N. Y.
Beck Flaming Lamp Co. ("Beck," Flaming En-
closed, Direct or Alternating), 30 Greenwich,
N. Y.
Buckeye Electric Co. (The Manhattan Atl &
Direct Enclosed Incan.), Cleveland, O.
Doubleday-Hill Electric Co., 919 Liberty av,
Pittsburg, Pa.
Excello Arc Lamp Co. ("Excello," Luminous
Arc), 24 W 21st, New York
Fort Wayne Electric Works (Inc.), (Alt. & Di-
rect Incan.), Fort Wayne, Ind.
**GENERAL ELECTRIC CO. ("Multiple
A C & D C"),** Schenectady, N. Y., & 44
Broad, New York. (See adv. on next page;
branch offices, end of book)
Hamblin, Jno. A. ("Stellare" Direct), 12 Bev-
erly, Providence, R. I.
Hamburger, Felix ("Siemens" Flaming, En-
closed), 78 5th av, N. Y.
Helois Mfg. Co. (Alt. & Direct Current), Brides-
burg, Phila., Pa.
Ideal Electric & Mfg. Co. ("Ideal," enclosed
for Direct & Alternating Current), Mans-
field, O.
Imperial Electric Mfg. Co., 4 Murray, N. Y.
Jandus Electric Co. (Double Enclosed), 180
Huron, Cleveland, O.
Keystone Electric & Mfg. Co., Allegheny, Pa.
Lea Electric Mfg. Co. ("Northall" Swinging
Covered Enclosed Arc Standard or Minia-
ture"), Elwood, Ind.
Marquette Electric Mfg. Co. ("Marquette"), 215
S Clinton, Chicago, Ill.
Mutual Electric & Machine Co. (Direct), Wheel-
ing, W. Va.
Perkins Electrical Switch Mfg. Co. (Direct &
Alter. Enclosed), Bridgeport, Conn.
Philadelphia Electrical & Mfg. Co. (Open & En-
closed), 2011 Market, Philadelphia, Pa.
Pittsburg Electrical & Machine Works (Alt. &
Direct Current), Pittsburg, Pa.
Tenney, A. E. Mfg. Co. (Direct), Pawtucket,
R. I.
Toerring, C. J. Co. ("Toerring," Enclosed), 2121
Toronto, Philadelphia, Pa.
Transcendent Lamp Co. ("Transcendent"), 134
Mott, New York
Warner Arc Lamp Co. ("Warner," Enclosed, Di-
rect Current), Muncie, Ind.

United States Arc Lamp Co., 110 E 23d, N. Y.
Western Electric Co. ("Hawthorne" & "Petite,"
Enclosed), 259 S Clinton, Chicago & 57
Bethune, New York
Western Electric Co. (Direct & Alternating),
11th & York, Philadelphia, Pa.
Western Electrical Supply Co. ("A-B" En-
closed, etc.), St. Louis, Mo.
WESTINGHOUSE ELECTRIC & MFG.
Co. (Alt. & Direct Enclosed), Pittsburg,
Pa. (See adv. index, end of book)

Lamps (Arc, Gas)

Acorn Brass Works ("Lumo"), 51 N Peoria,
Chicago, Ill.
Atco Metal Mfg. Co., Atco, N. J.
Cluster Gas Light Co., 67 Bowery, New York
Crane, Wm. M. Co. ("Eagle"), 1133 B'way,
New York
General Gas Light Co. ("Humphrey"), Kala-
mazoo, Mich.
Gleason, E. P. Mfg. Co. ("Grey" & "Glea-
son's" Incandescent Reflecting), 37 Murray,
New York
Hamilton Lighting Co., Pittsburg, Pa.
Incandescent Burner Co., 665 Fulton, Brooklyn,
N. Y.
Irby & Gilliland Co. ("Edcent," "Senior"),
Memphis, Tenn.
Kern Burner Co., 88 Warren, New York
Klemm & Co., 132 N 5th, Philadelphia, Pa.
Knapp Mfg. Co. ("Mercer"), 24 Frankfort,
New York
Liberty Gas Light Co. ("Victor"), 1334 N High,
Columbus, O.
National Stamping Works, La Salle & Michi-
gan, Chicago, Ill.
Northern Light Co. (Incandescent), 451 Green-
wich, New York
Phelps Co., 33 State, Detroit, Mich.
Sanitary Specialty Mfg. Co. ("Doorenbos"), 55
N Clinton, Chicago, Ill.
Turner Brass Works, Franklin & Michigan,
Chicago, Ill.
White Mfg. Co., 192 Michigan, Chicago, Ill.

Lamps (Arc, Gasoline)

Acorn Brass Works ("Doran"), 51 N Peoria,
Chicago, Ill.
Best Light Co., Canton, O.
Martin & Morehead, 51 W Washington, Chi-
cago
Turner Brass Works, 66 Michigan, Chicago, Ill.
White Mfg. Co. ("American" & "White Star"
Pressure), 192 Michigan, Chicago, Ill.

*Lamps (Arc, Machine Shop)

GENERAL ELECTRIC CO., Schenec-
tady, N. Y., & 44 Broad, New York. (See
adv. on next page; branch offices, end of
book)

Lamps (Arc, Photo-Engraving)

Adams-Bagnall Electric Co., Cleveland, O.
Bogue, Chas. J., Electric Co., 213 Centre, New
York
GENERAL ELECTRIC CO., Schenec-
tady, N. Y., & 44 Broad, New York. (See
adv. on next page; branch offices, end of
book)
Helois Mfg. Co., Bridesburg, Philadelphia, Pa.
LaRoche, F. A. Co., 656 Hudson, New York
Menchen, Jos. Electrical Co., 354 W 50th, New
York
Mutual Electric & Machine Co., Wheeling, W.
Va.
Photo Engraving Co., 11 Murray, New York
Zeigler Apparatus Co., 200 Summer, Boston,
Mass.

Lamps (Automobile, Gas & Oil)

American Acetylene Stove Co. (Gas), Masonic
Temple, Minneapolis, Minn.
American Auto Brass Co., Columbus, O.
Angiulli, Luigi (Gas), 182 Centre, New York
Atwood Mfg. Co. ("Mile Ahead" Gas & "Stay
Lit" Oil), Amesbury, Mass.
Automobile Supply Mfg. Co. ("Jap," "Fans",
320 Driggs av, Brooklyn, N. Y.
Badger Brass Mfg. Co. ("Solar" Headlights),
Kenosha, Wis.
Colt, J. B. Co. (Gas), 21 Barclay, New York
Cowles, C. & Co. (Oil), Water c Chestnut, New
Haven, Conn.
Dayton Mfg. Co. ("Avery," Gas), 2240 E 3d,
Dayton, O.
Dietz, R. E. Co., 60 Laight, New York
Edmunds & Jones, 315 Riopelle, Detroit, Mich.

Funke, A. H. ("Autolyte," Gas, Imported), 83
Chambers, New York
Gray & Davis ("Bullet"), Amesbury, Mass.
Ham, C. T. Mfg. Co. (Oil), 731 Oak, Rochester,
N. Y.
Hine-Watt Co. ("Columbia," Gas), 60 Wabash
av, Chicago, Ill.
Manhattan Lamp Works ("Saxon," Gas), 46 W
67th, New York
Moore, M. E. & Son (Gas), Westfield, Mass.
New York Coach & Auto Lamp Co., 302 W 53d,
New York

Post & Lester (Royal de Luxe), Hartford, Conn.
Rose Mfg. Co. ("Neverout"), 910 Arch, Phila-
delphia, Pa.

RUSH ACETYLENE GENERATOR

Co. (Radiant Acetylene), Canandaigua, N. Y.
(See adv. index, end of book)
Rushmore Dynamo Works (Gas), Plainfield, N.J.
Scoville & Peck Co. ("Peck," Oil), 15 Wooster,
New Haven, Conn.
Sibley & Pitman ("Climax"), 26 Warren, New
York
Smith & Mabley ("Billy," "French"), 1765
B'way, New York
Stevens & Sackett Co. (Oil), 70 Crown, New
Haven, Conn.
Standard Carriage Lamp Co. (Gas), 43 S Canal,
Chicago, Ill.
Twentieth Century Mfg. Co. ("La Belle," Gas,
& "Grand," & Mammoth," Oil), 19 Warren,
New York
WILSON, F. CORTEZ & CO., 239
Lake, Chicago, Ill. (See adv. index, end of
book)

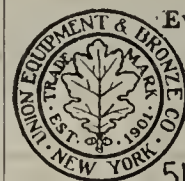
Lamps (Bicycle)

Admiral Bicycle Lamp Co. ("Admiral"), Marys-
ville, O.
Bridgeport Brass Co., Bridgeport, Conn.
Plume & Atwood Mfg. Co., Waterbury, Conn.
Rose Mfg. Co., 910 Arch, Phila., Pa.
Scovill Mfg. Co., Waterbury, Conn.
Twentieth Century Mfg. Co., 17 Warren, N. Y.

*Lamps (Bronze, Artistic Wrought)

(See also Gas Fixtures Wrought Iron)

JACKSON, WM. H. & CO., 29 E. 17th
(Union Sq.), New York. (See adv. index,
end of book)
HENRY-BONNARD BRONZE CO.,
Sales Office, 5 & 7 E 42d, New York. Works,
Mt. Vernon, N. Y. (See adv. index, end of
book)
SMITH, F. P. WIRE & IRON WORKS,
100 Lake, Chicago, Ill. (See adv. index, end
of book)
TYLER, W. S. CO., Cleveland, O., &
11 B'way, New York. (See adv. index &
& branch offices, end of book)



Every Article Bearing this
Trade Mark has Distinctive
Merit in Craftsmanship
and Artistic Finish.
UNION EQUIPMENT AND BRONZE CO.
514-520 WEST 36TH ST. NEW YORK.

ARCHITECTS WORK SOLICITED

Lamps (Car)

Adams & Westlake Co. (All Kinds), Ontario &
N Franklin, Chicago, Ill.
Bridgeport Brass Co., Bridgeport, Conn., & 19
Murray, N. Y.
Dayton Mfg. Co. (For Steam & Electric Cars),
Dayton, O.
Ham, C. T. Mfg. Co., Rochester, N. Y.
Howard, Jas. L. & Co., Hartford, Conn.
Klemm & Co. (Oil), 132 N. 5th, Phila., Pa.
Page Bros. & Co., 349 Cambridge, Boston, Mass.
Rochester Headlight Works, Rochester, N. Y.
Safety Car Heating & Lighting Co., 160 B'way,
New York
Smith, Chas. G. 352 Pearl, New York
Star Headlight Co. (Oil), Rochester, N. Y.

UNION EQUIPMENT AND BRONZE CO.
520 W 36th, N. Y. (See adv. outside stencil)

Lamps (Carriage)

American Auto Brass Co., Columbus, O.
 Atwood Mfg. Co., Amesbury, Mass.
 Brown, Jno. W. Mfg. Co., Columbus, O.
 Carey & Co., 243 Race, Phila., Pa.
 Cowles, C. & Co. (Inc.), New Haven, Conn.
 Dietz, R. E. Co., 60 Lighthouse, New York
 English & Mersick Lamp & Foundry, New Haven, Conn.
 Gray & Davis, Amesbury, Mass.
 Ham, C. T. Mfg. Co., Rochester, N. Y.
 Lockwood, The Mfg. Co., Newark, N. J.
 Richmond, Indiana Mfg. Co., Richmond, Ind.
 Rose Mfg. Co., 910 Arch, Phila., Pa.
 Smith, Chas. G., 352 Pearl, New York
 Standard Carriage Lamp Co., 43 S. Canal, Chicago
 White Mfg. Co., Bridgeport, Conn.

***Lamps (Derrick)**

OIL WELL SUPPLY CO., 215 Water,
 Pittsburg, Pa. (See adv. index, end of book)

Lamps (Desk, Electric)

Kinsman Electric & Railway Supply Co. ("Kinsman" "Daylight"), 91 Liberty, New York
 McCreary, A. A. Co. (Flexible Arm McCreary), 136 Liberty, New York
 McLeod, Ward & Co., 27 Thames, New York
 Western Electric Co., 259 S. Clinton, Chicago, Ill., & 57 Bethune, N. Y.

Lamps (Electric Portable)

BURROWES, E. T. CO. ("Burrowes")
 Material Hardwood Shade Cathedral Art Glass, Portland, Me. (See adv. index, end of book)

Lamps (Gasoline)

American Gas Machine Co., Albert Lea, Minn.
 Best Light Co., Canton, O.
 Boulevard Globe & Lamp Co., 88 Warren, N. Y.
 Brilliant Gas Lamp Co. ("Brilliant Halo"), 42 State, Chicago, Ill.
 Knight Light Co., 90 Illinois, Chicago, Ill.
 Merkel, Herman, 511 Elm, St. Louis, Mo.
 Smith, Chas. G., 352 Pearl, New York
 Sun Vapor Street Light Co. (Incandescence), Canton, O.
 Superior Mfg. Co. (Also Vapor), Ann Arbor, Mich.
 Turner Brass Works (Vapor), 66 Michigan, Chicago, Ill.
 White Mfg. Co. (Vapor), Chicago Ridge, Ill.

Lamps (Gauge)

(See Lamps, Locomotive Gauge)

Lamps (Gravity)

Ireland & Matthews Mfg. Co. (Gasoline), Detroit, Mich.
 White Mfg. Co. ("Reliable" & "White Star"), 192 Michigan, Chicago

Lamps (Hand, Engineers' & Machinists')

Gray, Peter & Sons, 88 Union, Boston, Mass.
 Knapp Mfg. Co., 25 Frankfort, New York
 Tower & Lyon Co. (Malleable Iron), 95 Chambers, New York
WILSON, F. CORTEZ & CO., 239
 Lake, Chicago, Ill. (See adv. index, end of book)

Lamps (Hanging)

BRADLEY & HUBBARD MFG. CO.,
 Meriden, Conn. (See adv. index, end of book)
 Bristol Brass Co., Bristol, Conn.
 Waterbury Brass Goods Corp'n, Waterbury, Conn.

Lamps (Incandescence Electric)

American Incandescence Lamp Co., Girard Trust bldg, Phila., Pa., & 26 Cortlandt, New York
 American Tubular Axle Co., Toledo, O.
 Anchor Lamp Co., 258 B'way, New York
 Banner Incandescence Electric Co., Youngstown, O.
 Bay State Lamp Co., Danvers, Mass.
 Brilliant Electric Co., Cleveland, O.
 Bryan-Marsh Co. ("Imperial"), 227 Fulton, New York
 Buckeye Electric Co., Cleveland, O.
 California Incandescence Lamp Co., San Francisco, Cal.
 Capitol Electric Co. ("Hall"), Denver, Colo.
 Climax Mfg. Co. (Climax System), Corry, Pa.
 Colorado Lamp Co. (The Colorado), Denver, Col.
 Columbia Incandescence Lamp Co., 2115 Locust, St. Louis, Mo.
 Consolidated Electric Lamp Co., Danvers, Mass.
 Consumers Incandescence Lamp Co. ("Premier"), Owensboro, Ky.
 Dayton Electrical Mfg. Co., Dayton, O.
 Doubleday-Hill Electric Co., 919 Liberty av., Pittsburg, Pa.
 Downward Light Electric Co., 32 Union sq., New York
 Economical Electric Lamp Co. (Turndown), 227 Fulton, New York
 Edison Lamp Dept., Harrison, N. J.
 Electrical Engineering Co. (The California), 509 Howard, San Francisco, Cal.
 Fort Wayne Electric Works, Fort Wayne, Ind.
 Fosterla Incandescence Lamp Co., Fosterla, O.
 Franklin Electric Mfg. Co. ("The Ferne"), Hartford, Conn.
GENERAL ELECTRIC CO. ("Edison"), Schenectady, N. Y., & 44 B'way New York. (See adv. below; branch offices, end of book)
 General Incandescence Lamp Co., Williamson bldg, Cleveland, O.
 Germania Electric Lamp Co., Harrison, N. J.
 Gilmore Electric Co. (Multiple), 625 E 1st, Boston, Mass.
 Green & Bauer, Hartford, Conn.
 Ideal Electric & Mfg. Co. (Ideal Special), Mansfield, O.
 Illinois Electric Co., 239 Madison, Chicago
 Jones, J. & Son (The Radiant), 62 Vesey, New York
 Kentucky Electrical Co., Inc. (The Kentucky), Owensboro, Ky.
 Kinsman Electric & Railway Supply Co. ("Trade Mark" & "Star"), 55 Dey, New York

Koh-I-Noor Incandescence Lamp Co., Monadnock blk, Chicago, Ill.
 Liberty Electric Mfg. Co., 543 4th av., Pittsburg, Pa.
 Marlboro Electric Machine & Lamp Co., Marlboro, Mass.
 Missouri American Electric Co. ("Miller"), 3327 Locust, St. Louis, Mo.
 Moline Incandescence Lamp Co. ("Moline"), Moline, Ill.
 Monarch Electric Mfg. Co., Warren, O.
 Munder Electric Co., Springfield, Mass.
 National Electric Lamp Co., Cleveland, O.
 New England Lamp Co., Malden, Mass.
 New York & Ohio Co., Warren, Ohio
 Peerless Electric Co., Warren, O.
 Phelps Co. (Hylo Turn Down), 41 State, Detroit, Mich.
 Ravenna Lamp Works, Ravenna, O.
 Rooney Electric Lamp Co., 155 E 23d, N. Y.
 Shelby Electric Co., Shelby, O.
 Standard Electrical Mfg. Co. ("Star"), Niles, O.
 Standard Lamp Co., Wabash, Ind.
 Sterling Electric Mfg. Co., Warren, O.
 Sunbeam Incandescence Lamp Co., 242 S. Jefferson, Chicago, Ill.
 Talmont Elec. Engineering Co. ("Diamond"), 90 Centre, New York
 Tipless Lamp Co., 256 W 23d, New York
 Warren Electric & Specialty Co. ("The Peerless"), Warren, Ohio
 Washington Incandescence Lamp Co., New Bedford, Mass.
 Western Electric Co. ("Sunbeam"), 259 S. Clinton, Chicago, & 57 Bethune, New York
 Western Electrical Supply Co. (Monarch), St. Louis, Mo.
WESTINGHOUSE ELECTRIC & MFG. CO., Pittsburg, Pa. (See adv. index & branch offices, end of book)
 Westinghouse Lamp Co., 510 W 23d, New York
 White, O. C. Co. (Portable), Worcester, Mass.

Lamps (Incandescence Electric, Car)

Banner Incandescence Electric Co., Youngstown, O.
 Bryan-Marsh Co., 227 Fulton, New York
 Franklin Electric Mfg. Co. (The Ferne), Hartford, Conn.
 Sterling Electric Mfg. Co., Warren, O.

Lamps (Incandescence Gas)

American Incandescence Lamp Co., 26 Cortlandt, N. Y., & Girard Trust bldg, Phila., Pa.
 Automatic Incandescence Light Co., Northboro, Mass., & Phila. Bourse, Phila., Pa.
 Columbia Incandescence Lamp Co., Real Estate Trust bldg, Phila., Pa.
 Cosmopolitan Co. ("Cosmo"), 41 State, Chicago, Ill.
 Economical Electric Lamp Co. ("Turndown"), 96 Warren, New York
 Hamilton Mfg. Co., 3 Union, Pittsburg, Pa.
 Kentucky Electrical Co., Inc., Owensboro, Ky.
 Keras Incandescence Co., 81 Wareham, Boston
 Keru Burner Co., 88 Warren, New York
 Kinsman Electric & Railway Supply Co., 55 Dey, New York
 Kitson Hydro Carbon Heating & Incandescence Lighting Co., 1224 Callowhill, Phila., Pa.

GENERAL ELECTRIC COMPANY

EDISON INCANDESCENT LAMPS

Are the best incandescence lamps made. The fact that over 25,000,000 are sold every year proves it.

MERIDIAN LAMPS

Afford a most attractive form of illumination and are suitable for all classes of interior lighting service. These lamps are simple and safe, low in cost and high in efficiency, flexible and adaptable, and their uniform light is both brilliant and soft.

MAIN LAMP SALES OFFICE: HARRISON, N. J.

Sales offices in all large cities.

573

For Great Britain and Ireland: THE BRITISH THOMPSON-HOUSTON CO., Ltd., Rugby and 83 Cannon St., London, E.C.

Leoben Mfg. Co., Philadelphia Bourse, Phila.,
Liberty Gas Light Co., 1334 N High, Columbus,
O.
Peerless Light Co. ("Peerless Inverted & Up-
right"), Chicago, Ill.
Ramsdell Inverted Gas Lamp Co. ("Ramsdell"
Inverted), 530 B'way, New York
Search Light Mfg. Co., 77 Dearborn av, Chi-
cago, Ill.
Turner Brass Works, Franklin c. Michigan,
Chicago, Ill.
Welsbach Co., 922 Chestnut, Phila., Pa.
Welsbach Gas Lamp Co., 78 Bowery, New York

Lamps (Incandescent Gasoline)

Akron Gas Lamp Co., Akron, O.
American Lighting Co., 210 Kinzie, Chicago, Ill.
Best Light Co., Canton, O.
Eureka Light Co., Canton, O.
Kitson Hydro Carbon Heating & Incandescent
Lighting Co., 1224 Callowhill, Phila., Pa.
Sun Vapor Street Light Co., Canton, O.
Turner Brass Works, 66 Michigan, Chicago, Ill.

Lamps (Incandescent, Hydro Carbon)

Kitson Hydro Carbon Heating & Incandescent
Lighting Co., 1224 Callowhill, Phila., Pa.
Williams Incandescent Light Co. (Williams
operated with Kerosene Oil), 3421 Haver-
ford av, Phila., Pa.
Transcendent Lamp Co. ("Transcendent"), 6 E
1st, New York

Lamps (Incandescent, Kerosene)

Kitson Hydro Carbon Heating & Incandescent
Lighting Co., 1224 Callowhill, Phila., Pa.
Ober, Thos. K. & Co. ("Keros"), Drexel bldg,
Phila., Pa.

Lamps (Incandescent Miniature)

American Endoscopic Co., 212 Union, Provid-
ence, R. I.
Boehm, H. & Co., Youngstown, O.
Brooklyn Electric Lamp & Novelty Co., 278
Fulton, Brooklyn, N. Y.
Bryan-Marsh Co., 227 Fulton, New York
GENERAL ELECTRIC CO., SCHE-
nectady, N. Y., & 44 Broad, New York.
(See adv. on preceding page; branch offices,
end of book)
Gilmore Electric Co., 625 E 1st, Boston, Mass.
Green & Baucr, Hartford, Conn.
Jaeger Miniature Lamp Mfg. Co. ("Jaeger"),
Bible House, New York
Lea Electric Mfg. Co. ("Northall"), Elwood,
Ind.
McCandless, H. W. & Co., 67 Park pl., New
York
Ohio Electric Works, 76 Ellen, Cleveland, O.
Rooney Electric Lamp Co., 155 E 23d, New
York
Warren Electric & Specialty Co., Warren, O.

Lamps (Incandescent Renewed)

Anchor Lamp Co., 258 B'way, New York
Consolidated Electric Lamp Co., Danvers, Mass.
Dwyer Machine Co., Lynn, Mass.
Eagle Lamp Co., Danvers, Mass.
Economy Electric Co. ("Economy" "Bright"),
Warren, O.
Electrical Engineering Co. (The Pacific), 509
Howard, San Francisco, Cal.
New England Electrical Works, Middleton,
Mass.
Philadelphia El. Equipment Co., Land Title
bldg, Philadelphia, Pa.
Re-New Lamp Co., 134 State, Boston, Mass.
Sterling Electrical Mfg. Co., Warren, O.

Lamps (Incandescent Street Series)

GENERAL ELECTRIC CO., Schenec-
tady, N. Y., & 44 Broad, New York. (See
adv. on preceding page; branch offices, end
of book)
Gilmore Electric Co., 625 E 1st, Boston, Mass.

Lamps (Incandescent Vapor Gas)

Best Light Co., Canton, O.
Canton Incandescent Light Co., Canton, O.
Chicago Solar Light Co. ("Nulite"), 41 State,
Chicago
Cleveland Vapor Light Co., Cleveland, O.

Diamond Light Co., Canton, O.
Econometrical Incandescent Lamp Co., 96 Warren,
New York City
Kitson Hydro Carbon Heating & Incandescent
Lighting Co., 1224 Callowhill, Phila., Pa.
Sun Vapor Street Light Co., Canton, O.

Lamps (Locomotive Gauge)

Gray, Peter & Sons (Locomotive, Water, Steam
Gauge, etc.), 88 Union, Boston, Mass.
Knapp Mfg. Co. (Steam or Water), 24 Frank-
fort, New York
WILSON, F. CORTEZ & CO., 239
Lake, Chicago, Ill. (See adv. index, end
of book)

Lamps (Marine, Oil)

(See also Lamps, Automobile; also Projectors
or Searchlights)

American Lamp Co., Detroit, Mich.
Badger Brass Mfg. Co. ("Solar"), Kenosha,
Mich.
Bradley & Hubbard Mfg. Co. (Cabin), Meriden,
Conn.
Dietz, R. E. Co. ("Paragon"), 60 Laight, New
York
Du Bois Searchlight Co., 220 B'way, N. Y.
Edmonds & Jones Mfg. Co. ("E. & T."), De-
troit, Mich.
Gray, Peter & Sons, Detroit, Mich.
Miller, Edw. & Co. (Cabin), Meriden, Conn.
Page Bros. & Co. (Cabin & Signal), 347 Cam-
bridge, Boston, Mass.
Porter's, Wm. Sons Co. (Cabin & Signal), 23
Vandewater, New York
Rose Mfg. Co. ("Neverout"), 910 Arch, Phila.,
Pa.
Rushmore Dynamo Works ("Rushmore"), Plain-
field, N. J.
Russell & Stoll Co. (Cabin & Signal), 48 Cliff,
New York
Russell & Watson (Signal), Buffalo, N. Y.
Scoville & Peck, 15 Wooster, New Haven, Conn.
Standard Lamp & Mfg. Co. ("Standard"), 43 S
Canal, Chicago, Ill.
Twentieth Century Mfg. Co. ("Twentieth Cen-
tury"), 19 Warren, New York City.

Lamps (Mercury Vapor)

Cooper-Hewitt Electric Co., 220 W 29th, New
York, N. Y.
GENERAL ELECTRIC CO., Schenec-
tady, N. Y., & 44 Broad, New York. (See
adv. on preceding page; branch offices, end
of book)

*Lamps (Mine, Acetylene)

INGERSOLL-RAND CO., 11 B'way,
New York. (See adv. index & branch offices,
end of book)

Lamps (Miners' Safety)

American Safety Lamp & Mine Supply Co.,
Scranton, Pa.
American Tube & Stamping Co., Bridgeport,
Conn.
Anton, Geo. & Bro. ("Star," "Globe," "Eagle"),
Monongahela, Pa.
Anton, John & Son, Monongahela, Pa.
Cummings, Jno. S. & Co., Tunnelton, W. Va.
Everhart Brass Works, Scranton, Pa.
Fidelity International Agency, 621 B'way, New
York, N. Y.
Hardsocg, Martin Co., Allegheny, Pa.
Hughes Bros., Scranton, Pa.
Hunt, Alex. B. ("Hunt's" for Kerosene or
Whale Oil), Scranton, Pa.
Irving Mfg. & Tool Co. (J. F. McCoy Co., Prop.),
159 Chambers, New York
MacLeod, Walter & Co., 213 E Pearl, Cincin-
nati, O.
Portable Electric Safety Light Co. ("Hubbell"
Electric Safety), Newark, N. J.
Republic Metalware Co., Buffalo, N. Y., & 21
Cliff, New York

Lamps (Motor)

(See Lamps, Automobile, Gas & Oil)

Lamps ("Nernst")

NERNST LAMP CO., Fayette & Gar-
rison, Pittsburg, Pa.

Lamps (Photo Engraving)

Cooper-Hewitt Electric Co., 220 W. 29th, New
York, N. Y.

Lamps (Pocket, Electric)

Eastern Carbon Works, West Side av & Cen-
tral R. R., Jersey City, N. J.
Electric Contract Co. ("Evening Star," "Light
of Asia"), 202 Centre, New York
American Electrical Novelty & Mfg. Co. ("Ever
Ready"), 308 Hudson, New York
Meyrowltz, E. B. ("Firefly"), 104 E 23d, New
York
Phenix Electrical Works, Brooklyn, N. Y.
Roche, Wm. Dry Battery Co. ("New Stand-
ard"), 42 W B'way, New York
Strobel & Wilkens Co. ("Yankee"), 591 B'way,
New York
Uehling-Decker Co. ("Rayflex"), Passaic, N. J.

Lamps (Portable Table)

(See Lamps, Table)

Lamps (Railway)

Adams & Westlake Co., Ontario c. N. Frank-
lin, Chicago, Ill.
Armspear Mfg. Co., 447 W 53d, New York
BERGER MFG. CO., Main Office &
Works, Canton, O. (See adv. index & branch
offices, end of book)
Dewey, F. O. Co., 28 Canal, Boston, Mass.
Dietz, R. E. Co. (Locomotive Danger, Car In-
spectors, Conductors, etc.), 60 Laight, N. Y.
Gray, Peter & Sons (Conductors' Signal, Switch
Tail, etc.), 88 Union, Boston, Mass.
Handlan-Buck Mfg. Co. ("Blizzard" "Engine"
& "Utility Tail"), 212 N 3d, St. Louis, Mo.
MacLeod, Walter & Co., Cincinnati, O.
Ohio Lantern Co. ("Baron"), Tiffin, O.
Page Bros & Co., 347 Cambridge, Boston, Mass.
Sherburne & Co., 53 Oliver, Boston, Mass.
Smith, Chas. G., 352 Pearl, New York

Lamps (Semaphore Signal)

Adams & Westlake, Ontario c. N. Franklin,
Chicago, Ill.
Armspear Mfg. Co., 447 W 53d, New York

Lamps (Signal)

Adams & Westlake Co., Ontario & N Franklin,
Chicago, Ill.
Armspear Mfg. Co., 447 W 53d, N. Y.
Dietz, R. E. Co. (Red, etc.), 60 Laight, N. Y.
Dressel Railway Lamp Works, 3876 Park av,
New York
Dodson Signal Lamp & Lantern Co., Scranton,
Pa.
FAIRBANKS, MORSE & CO., Frank-
lin & Monroe, Chicago, Ill. (See adv. in-
dex & branch offices, end of book)
Handlan-Buck Mfg. Co. ("Wells," also Engine
& Tail), 212 N. 3d, St. Louis, Mo.
Kitson Hydro-Carbon Heating & Incandescent
Lighting Co., 8th & Willow sts, Phila., Pa.
MacLeod, Walter & Co., 213 E Pearl, Cincin-
nati, O.
Manning Signal Lamp Co., Des Moines, Ia.
Rochester Head Light Works, Rochester, N. Y.
Smith, Chas. G., 352 Pearl, New York

Lamps (Station)

Armspear Mfg. Co., 447 W 53d, New York
Boesch Lamp Co., 585 Mission, San Francisco,
Cal.
Dietz, R. E. Co., 60 Laight, New York
Gray, Peter, 12 Marshall, Boston, Mass.
Ham, C. T. Mfg. Co., Rochester, N. Y.
MacLeod, Walter & Co., 213 E Pearl, Cincin-
nati, O.
Ohio Electric Works, 76 Ellen, Cleveland, O.
Rochester Lamp Co., 38 Park pl, New York
Smith, Chas. G., 352 Pearl, New York

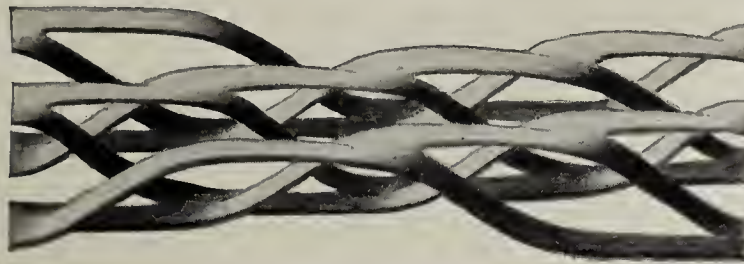
Lamps (Street)

Automatic Incandescent Light Co. ("Auto-
Arc"), Northboro, Mass.
Best Light Co., Canton, O.
Chicago Solar Light Co., 81 5th av, Chicago
Dietz, R. E. Co., 60 Laight, New York
Gauger, John L. Co., 22d & Wood, Phila., Pa.
Globe Gas Light Co., 79 Union, Boston, Mass.
Globe Light & Heat Co., 218 La Salle, Chicago,
Ill.
Ham, C. T. Mfg. Co., 731 Oak, Rochester, N. Y.
Kitson Hydro-Carbon Heating & Incandescent
Lighting Co., 1224 Callowhill, Phila., Pa.
Miner, Thos. T. W. ("The Miner"), 823 Eagle
av, New York
Penna Globe Gas Light Co., Broad & Arch,
Phila., Pa.

KUHNE'S TRUSS METAL LATH

(PATENTED)

AWARDED
SILVER MEDAL
AT THE
WORLD'S FAIR
SAINT LOUIS, 1904.



TESTED AND
APPROVED
BY THE
NEW YORK
BUILDING DEPT.

(HALF SIZE)

Shipped in Crates containing 350 Square Feet.

STOCK SIZE, 28 X 90 INCHES.

No. 26 gauge has a cross section of 0.216 square inch per foot in width, and weighs 0.80 pounds per square foot.
No. 28 gauge has a cross section of 0.18 square inch per foot in width, and weighs 0.67 pounds per square foot.

Plaster partitions erected with Truss Metal Lath will never crack, even in the severest fire test, because they have no iron uprights. Ask Professor Ira H. Woolson of the Columbia University, New York. No. 28 gauge is the material for partitions.

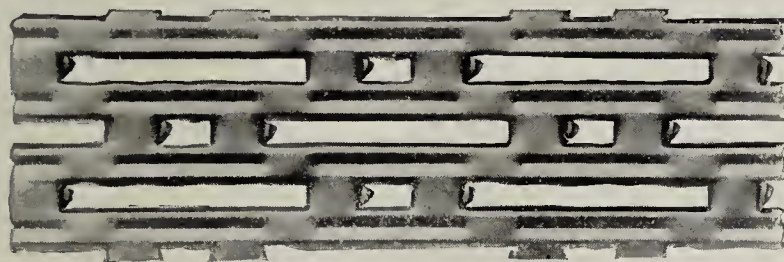
Compare the cross-section of our No. 28 gauge with No. 10, 3-inch mesh Expanded Metal, and you will find what our material can do in this form. It is useful for any kind of reinforcement and in many cases without the wooden centering.

KUHNE'S CLINCHER LATH

(PATENTED)

BIG SAVING OF MORTAR
ON ACCOUNT OF ITS
MANY CLINCHES.

A THIN COAT OF MORTAR
IS VERY IMPORTANT
FOR CEILINGS.



SHIPPED IN BUNDLES
CONTAINING
16 SQUARE YARDS.

STOCK SIZE, 24 x 96 IN.
BLACK, PAINTED
OR GALVANIZED.

(HALF SIZE)

Shipped Black unless Otherwise Specified.

Quotations and any other information requested by our patrons in the Western or Central States will be given by:

THE AMERICAN ROLLING MILL CO., Middletown, Ohio

and for the States of New Jersey, New York and all the New England States by the

TRUSS METAL LATH CO., 147 Fourth Ave., New York, N. Y.

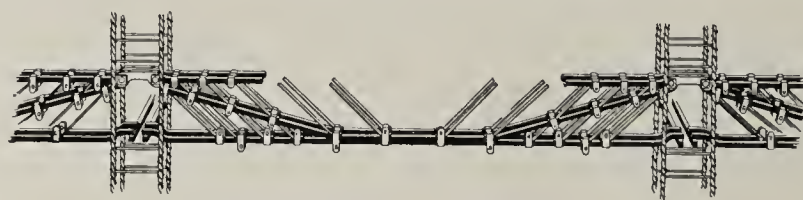
(GERMAN SAVINGS BANK BUILDING)

FOR CATALOGUE SEE PAGES 178 and 179 SWEET'S INDEXED CATALOGUE, 1907

THE GENERAL FIREPROOFING CO.

YOUNGSTOWN, OHIO

Steel for Every Requirement in Reinforced Concrete Work.

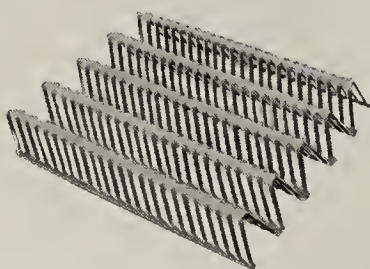


PIN-CONNECTED GIRDER FRAME.



EXPANDED METAL.

All grades and gages.



TRUSSIT METAL.

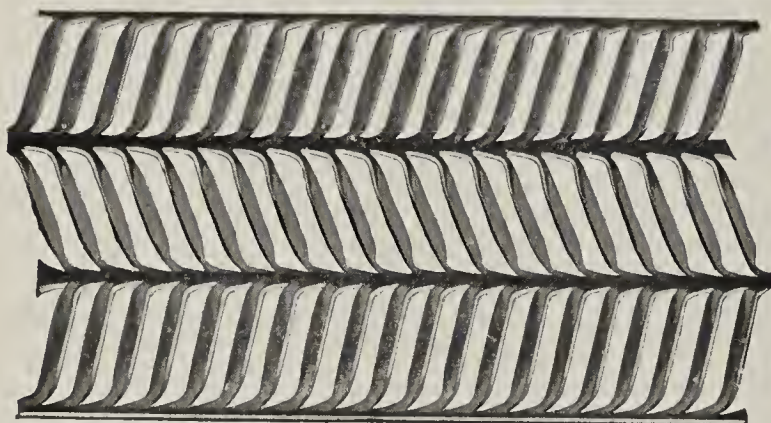
Reinforcement for light roof slabs.



COLD TWISTED LUG BAR.

High Elastic Limit. Great Ultimate Strength. Perfect Bond. Reliability

METAL LATH OF ALL GRADES.



HERRINGBONE

Expanded Steel Lath. The standard Metal Lath for Interior or Exterior Work.

BOSTON SHEET STEEL LATH.



DIAMOND MESH LATH.

All grades of Expanded Metal Lath. Our "Diamond E" grade possesses interesting points of merit.

ALLUNITED STEEL STUDDING.

Allsteel

Office Furniture and Filing Equipment

Special or Stock Designs for Offices, Libraries and Banks.

THE GENERAL FIREPROOFING CO.

Youngstown, Ohio

NEW YORK—156 Fifth Ave.

BOSTON—161 Devonshire St.

WASHINGTON—420 Colorado Bldg.

SAN FRANCISCO—82 Second St.

CHICAGO—115 Adams St.

ST. LOUIS—710 Missouri Trust Bldg.

NEW ORLEANS—409 Hennen Bldg.

ABERTHAW CONSTRUCTION CO., 8 Beacon Street, Boston, Agents.

Transcendent Lamp Co. ("Transcendent"), 134 Mott, New York
 Turner Brass Works, 66 Michigan, Chicago, Ill.
 Tyler, E. W. (Brass), 2700 B'way Cleveland, O.
 Wheeler Reflector Co., 156 Pearl, Boston, Mass.
 White Mfg. Co. ("White Star"), 192 Michigan, Chicago, Ill.

Lamps (Switch)

Adams & Westlake Co., Ontario c. N. Franklin, Chicago, Ill.
 Armspear Mfg. Co., 447 W 53d, New York
 Dewey, F. O. Co., 28 Canal, Boston, Mass.
 Dietz, R. E. Co., 60 Laight, New York
 Gray, Peter, 12 Marshall, Boston, Mass.
 Ham, C. T. Mfg. Co., Rochester, N. Y.
 Handlan-Buck Mfg. Co. ("Prahm," Target, etc.), 212 N. 3d, St. Louis, Mo.

Lamps (Table)

BRADLEY & HUBBARD MFG. CO., Meriden, Conn. (See adv. index, end of book)
 Miller, Edw. & Co., Meriden, Conn.
 National Brass & Iron Works, Reading, Pa.
 Pairpoint Corporation, New Bedford, Mass.
 Plume & Atwood Mfg. Co., Waterbury, Conn., New York & Chicago
SALO ART METAL CO. (Portable, Gas & Electric), 462 E 136th, New York. (See adv. index, end of book)
 Transcendent Lamp Co. ("Transcendent"), 134 Mott, New York
 Walton, Jas. & Co., Phoenixia, N. Y.
 Wheeler, M. B. Electric Co., Grand Rapids, Mich.
 White Mfg. Co., 192 Michigan, Chicago, Ill.
 Wilson, F., Cortez & Co., 239 Lake, Chicago, Ill.
 Wreissner Bros., Dassel, Minn.
 Yancey Generator Co., Chartres, New Orleans, La.

Lamps (Torch)

McClintock & Irvine Co. ("M. & I." Sheet Steel), Pittsburg, Pa.
 Wall, P. Mfg. Supply Co. ("Wall's") Pyramid Chain, Top Burner & Factory)
WILSON, F. CORTEZ & CO., 239 Lake, Chicago, Ill. (See adv. index, end of book)

*Lanterns (Artistic Wrought)

(See also Gas Fixtures, Wrought Iron)

AMOS, CHARLES & CO., 94 W Larned, Detroit, Mich. (See adv. index, end of book)
 Perelson, L., 204 Centre, New York
PITT, WM. R., Composite Iron Wks., 136 W 24th, N. Y. (See adv. index, end of book)
 Rose & Hastie, 754 Lexington, Brooklyn, N. Y.

UNION EQUIPMENT AND BRONZE CO.

520 W 36th, N. Y. (See adv. outside stencil)
WISCONSIN IRON & WIRE WORKS, 190 E Water, Milwaukee, Wis. (See adv. index, end of book)

*Lanterns (Artistic Wrought & Bronze)

JACKSON, WM. H. CO., 29 E 17th (Union Sq.), New York. (See adv. index, end of book)

Lanterns (Bicycle)

Bridgeport Brass Co. ("Search-Light" Oil & Gas), Bridgeport, Conn.
 Miller, Edw. & Co., Meriden, Conn.

Lanterns (Dash Board)

Ohio Lantern Co. ("Baron," Hood Reflector, etc.), Tiffin, O.

Lanterns (Police)

Knapp Mfg. Co. (Bull's Eye Police), 24 Frankfort, New York
 Tower & Lyon Co., 95 Chambers, New York

Lanterns (Railway)

Adams & Westlake Co., Ontario & N Franklin, Chicago, Ill.
 American Railway Supply Co., 24 Park pl, New York
 Armspear Mfg. Co. (Wire & Steel Guard), 447 W 53d, New York
BERGER MFG. CO., Main Office & Works, Canton, O. (See adv. index & branch offices, end of book)
 Boesch Lamp Co., 585 Mission, San Francisco, Cal.
 Delphos Mfg. Co. ("Standard," Self Lighting), Delphos, O.
 Dewey, F. O. Co., 28 Canal, Boston, Mass.
 Dietz, R. E. Co. (All Kinds), 62 Laight, New York
 Dressel Railway Lamp Works, 3876 Park av., N. Y.
 Glens Falls Lantern Co., Glens Falls, N. Y.
 Gray, Peter & Sons (Conductors, Signal, Switch Tail, etc.), 88 Union, Boston Mass.
 Ham, C. T. Mfg. Co., Rochester, N. Y.
 Handlan, Buck Mfg. Co., 212 N 3d, St. Louis, Mo.
 Keystone Lantern Co., Real Estate Trust bldg., Phila., Pa.
 Liberty Headlight & Lantern Co., Rochester, N. Y.
 Loeffelholz Co., 170 Clinton, Milwaukee, Wis.
 Macleod, Walter & Co., 463 E. Front, Cincinnati, O.
 National Brass Mfg. Co., Kansas City, Mo.
 Ohio Lantern Co. ("Baron"), Tiffin, O.
 Pritchard-Strong Co., Rochester, N. Y.
 Rochester Head Light Works, Rochester, N. Y.
 Smith, Chas. G., 352 Pearl, New York
 Stillman Safety Lamp & Heater Co. ("Stillman," Safety), 95 William, N. Y.
 Star Headlight Co., Rochester, N. Y.
 Tufts, Nath'l Meter Co., Boston, Mass.
 Union Supply Co. ("Tracy's Strong Light"), St. Louis, Mo.
 Wheeler Reflector Co., 156 Pearl, Boston, Mass.
 Zelnicker, Walter A. Supply Co., St. Louis, Mo.

Lanterns (Tubular)

BERGER MFG. CO., Main Office & Works, Canton, O. (See adv. index and branch offices, end of book)
 Buhl Stamping Co., Detroit, Mich.
 Dietz, R. E. Co., 60 Laight, N. Y.
 Hurwood Mfg. Co. ("Hurwood"), Bridgeport, Conn.
 Ohio Lantern Co. ("Baron"), Tiffin, O.
 Pritchard-Strong Co. ("Prisco" Tin, Cold Blast & Hot Blast Dash), 25 Circle, Rochester, N. Y.
 Wheeling Stamping Co., Wheeling, W. Va.
 Winfield Mfg. Co., Warren, O.

Larries

ANDERSON, W. H. TOOL & SUPPLY Co. (For Stone & Timber), 14 Macomb, Detroit, Mich. (See adv. index, end of book)
 Connelville Machine & Car Co., Connelville, Pa.
 Helmick Foundry & Machine Co. (Coke Oven Charging), Fairmont, W. Va.
 Niles Mine & Mill Supply Co., Cleveland, O., & Niles, O.
 Phillips, Hine & Hill Supply Co. (Coke Oven), Pittsburg, Pa.
 Scottdale Fdry. & Mach Co. (Coke & Coal), Scottdale, Pa.

Latches (Barn Door)

Albany Hardware Specialty Mfg. Co. ("Whitcomb"), Albany, Wis.
 Allith Mfg. Co. ("Allith"), W. Taylor & S 43d av, Chicago, Ill.
 Arcade Mfg. Co. ("Rex"), Freeport, Ill.
 Brewer Bros. (Wrought), 614 Filbert, Phila., Pa.
 Hunt, Helm, Ferris & Co. ("Harvard" & "Star" Automatic), Harvard, Ill.
 Lyons Specialty Co. (The "Petersen"), Lyons, Iowa
 National Mfg. Co., Sterling, Ill.
 Peck, C. A., Hardware Mfg. Co. ("Gem"), Berlin, Wis.
 Penn Hardware Co., Reading, Pa.
 Reading Hardware Co., Reading, Pa.
 Safety Door Hanger Co., Ashland, O.
 Stover Mfg. Co., Freeport, Ill.
 Wagner Mfg. Co. ("Daisy"), Cedar Falls, Ia.
WHITMAN & BARNES MFG. CO., Chicago, Ill. (See adv. index and branch offices, end of book)
 Wrightsville Hdw. Co. (Wrought), Wrightsville, Pa.

Latches (Cupboard)

Reading Hardware Co., Reading, Pa.
 Western Brass Mfg. Wks., 21st and Rockwell, Chicago, Ill.

*Latches (Elevator Door)

RELIANCE BALL BEARING DOOR Hanger Co. ("Reliance" Gravity Ball Bearing), 1 Madison ay, New York. (See adv. index, end of book)

Latches (Fire Door)

Peters, Jas. & Son (Wrought Iron), 1934 N Front, Phila., Pa.
RICHARDS MFG. CO., Aurora, Ill. (See adv. index, end of book)
 Slaymaker, S. R., Lancaster, Pa.
 Stover Mfg. Co., Freeport, Ill.
WILCOX MFG. CO. (Steel), Aurora, Ill. (See adv. index, end of book)
 Wrightsville Hardware Co., Wrightsville, Pa.

Latches (Gate)

Brewer Bros. (Wrought, with Catch & Staple), 614 Filbert, Phila., Pa.
 Clark Mfg. Co. (Animal Proof), Buffalo, N. Y.
 Kupferle, Jno. O., 2d & Mound, St. Louis, Mo.
 National Novelty Corp'n, 826 B'way, New York
 Penn Hardware Co., Reading, Pa.
 Reading Hardware Co., Reading, Pa.
 Susquehanna Casting Co., Wrightsville, Pa.
 Weller Hardware & Foundry Co., Horseheads, N. Y.
 Western Brass Mfg. Works (Reversible Office, etc.), 21st & Rockwell, Chicago, Ill.
WILCOX MFG. CO. (Wilcox-Ericson Steel), Aurora, Ill. (See adv. index, end of book)
 Wrightsville Hardware Co. ("Shepard's" "St. Louis" Pattern, etc.), Wrightsville, Pa.

Latches (Night)

Bohannon, Wilson, 760 Lexington, Brooklyn, N. Y.
 Climax, J. H. W., 275 Passaic, Newark, N. J.
 Eagle Lock Co., Terryville, Conn., & 98 Chambers, New York
Dayton Supply Co. (Non-Pickable), Dayton, O.
 Fraim, D. T. Lock Co., Lancaster, Pa.
 Miller, J. Walter, Lancaster, Pa.
 Penn Hardware Co., Reading, Pa.
 Romer & Co., 275 Passaic, Newark, N. J.
 Slaymaker, S. R., Lancaster, Pa.

Latches (Refrigerator)

Arcade Mfg. Co. (& "Star" Ice Box Latches), Freeport, Ill.
 Western Brass Mfg. Works (Brass, Bronze & Malleable Iron Japanned), 21st & Rockwell, Chicago, Ill.

Latches (Shutter)

Western Brass Mfg. Works (Brass & Bronze), 21st & Rockwell, Chicago, Ill.

Latches (Sliding Door)

(See Locks & Latches, Sliding Door)

Latches (Spring)

Hardware Supply Co. (Small), Grand Rapids, Mich.

Latches (Thumb)

Brewer Bros. (Wrought), 614 Filbert, Phila., Pa.
 National Novelty Corp'n, 826 B'way, New York
 Penn Hardware Co., Reading, Pa.
 Peters, Jas. & Son (Wrought Iron), 1934 N Front, Phila., Pa.
 Reading Hardware Co., Reading, Pa.
 Wrightsville Hardware Co., Wrightsville, Pa.

Lath Binders & Trimmers

American Sawmill Machinery Co. (Combined), 114 Liberty, New York. Works: Hacketts-town, N. J.
 Butterworth & Lowe (Inc.) (Combined), Grand Rapids, Mich.
 Curtis & Co. Mfg. Co., St. Louis, Mo.
 Diamond Iron Works, Minneapolis, Minn.

Garland, M. & Co., Bay City, Mich.
Hall & Brown Woodworking Machine Co., 1917 N. B'way, St. Louis, Mo.
Hill, Wm. E. & Co., Kalamazoo, Mich.
LANE MFG. CO., Montpelier, Vt. (See adv. index, end of book)
Mitts & Merrill, Saginaw, Mich.
Murray, D. J. Mfg. Co., Wausau, Wis.
Phoenix Mfg. Co., "Combined," Eau Claire, Wis.
Standard Saw Mill Machinery Co., Erie, Pa.
Wickes Bros., Saginaw, Mich.

Lath Bolters

(See Lath Mills & Bolters.)

Lath (Expanded Metal)

BERGER MFG. CO., Main Office & Works, Canton, O. (See adv. index & branch offices, end of book)
BOSTWICK STEEL LATH CO., Niles, O. (See adv. index, end of book)
Buffalo Expanded Metal Co., D. S. Morgan bldg., Buffalo, N. Y.
Central Expanded Metal Co., 541 Wood, Pittsburgh, Pa.
CHICAGO BUILDERS SPECIALTIES Co. (Mfrs'. Agents), 138 Washington, Chicago, Ill. (See adv. index, end of book)
Eastern Expanded Metal Co., 101 Tremont, Boston, Mass.
EDWARDS MFG. CO., Eggleston av & 4th & 5th, Cincinnati, O. (See adv. index and branch offices, end of book)
Expanded Metal Engineering Co., 225 5th av., New York
Expanded Metal Fireproofing Co. of Pittsburgh, 541 Wood, Pittsburgh, Pa.
Expanded Metal & Corrugated Bar Co., Frisco bldg., St. Louis, Mo.
Garry Iron & Steel Co. ("Cleveland"), Cleveland, O.
GENERAL FIRE-PROOFING CO., Youngstown, O., & 156 5th av., New York. (See adv. index & branch offices, end of book)
IMPERIAL EXPANDED METAL CO., Room 707 265 La Salle, Chicago, Ill. (See adv. index, end of book)
MERRITT & CO., 1024 Ridge av, Phila., Pa. (See adv. index, end of book)
MILWAUKEE CORRUGATING CO. (Jobbers), Milwaukee, Wis. (See adv. index, end of book)
Northwestern Expanded Metal Co., Old Colony bldg., Chicago, Ill.
ROEBLING CONSTRUCTION CO., Fuller bldg., New York. (See adv. index & branch offices, end of book)
St. Louis Expanded Metal & Fireproofing Co., Century bldg., St. Louis, Mo.
Southern Expanded Metal Co., Washington, D. C.
Waukesha Expanded Metal Co., Waukesha, Wis.
Western Expanded Metal & Fireproofing Co., San Francisco, Cal.
Youngstown Iron & Steel Roofing Co., Youngstown, O.

Lath Fasteners (Metallic)

Star Stud & Lath Tool Co. ("Star"), Indianapolis, Ind.

Lath (Metal)

(See also Lath, Expanded Metal)

AMERICAN ROLLING MILL CO., Middletown, O. (See adv. index, end of book)
AMERICAN SHEET & TIN PLATE Co., Frick bldg., Pittsburgh, Pa. (See adv. index & branch offices, end of book)

BERGER MFG. CO., Main Office & Works, Canton, O. (See adv. index & branch offices, end of book)
BOSTWICK STEEL LATH CO., Niles, O. (See adv. index, end of book)
Buffalo Fire-Proof Lath Co., Buffalo, N. Y.
Cannonsburg Iron & Steel Co. (Schrattwieser's Patents), 421 Wood, Pittsburgh, Pa.
CHICAGO BUILDERS SPECIALTIES Co. (Mfrs'. Agents), 138 Washington, Chicago, Ill. (See adv. index, end of book)
EDWARDS MFG. CO., Eggleston av & 4th & 5th, Cincinnati, O. (See adv. index & branch offices, end of book)
GENERAL FIRE-PROOFING CO. (Herringbone), Youngstown, O., & 156 5th av., New York. (See adv. index & branch offices, end of book)
HAYES, GEO. CO., 71 5th av, New York. (See adv. index, end of book)
IMPERIAL EXPANDED METAL CO., Room 707 265 La Salle, Chicago, Ill. (See adv. index, end of book)
MERRITT & CO., 1024 Ridge av, Philadelphia, Pa. (See adv. index, end of book)
MILWAUKEE CORRUGATING CO., Milwaukee, Wis. (See adv. index, end of book)
Penn Metal Ceiling & Roofing Co. ("American" & "Penn"), 23d & Hamilton, Phila., Pa.
SCHRATWIESER FIRE-PROOF Construction Co., 426 3d av., Brooklyn, N. Y. (See adv. below)
Steel Box Band Co., 143 Varick, New York
Sykes Metal Lath & Roofing Co., Niles, O.
TRUSS METAL LATH COMPANY ("Kuhne's"), 147 4th av., New York. (See adv. index, end of book)
Union Building Material Co., 1170 B'way, New York
Wheeling Corrugating Co., Wheeling, W. Va.
Youngstown Iron & Steel Roofing Co., Youngstown, O.

Lath Mills & Bolters

Abbott, D. S. Co. (Combined), Olean, N. Y.
Adams, S. & Son, Rome, N. Y.
ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)
American Sawmill Machinery Co. ("American"), 114 Liberty, New York. Works: Hacketts-town, N. J.
American Woodworking Machinery Co., Rochester, N. Y., West st bldg
Baldwin, Tuthill & Bolton, Grand Rapids, Mich.
Butterworth & Lowe, (Inc.), (Combination), Grand Rapids, Mich.
Chase Turbine Mfg. Co., Orange, Mass.
Curtis & Co. Mfg. Co., St. Louis, Mo.
Diamond Iron Works, Minneapolis, Minn.
Filer & Stowell Co., Home Office, Milwaukee, Frank Machinery Co., Buffalo, N. Y.
Garland, M. Co., Bay City, Mich.
Hall & Brown Woodworking & Machine Co., 1917 N B'way, St. Louis, Mo.
Hill, Wm. E. & Co., Kalamazoo, Mich.
Howell, R. R. & Co., Minneapolis, Minn.
Kline, Lewis T., Alpena, Mich.
LANE MFG. CO. (Combination), Montpelier, Vt. (See adv. index, end of book)
Mitts & Merrill, Saginaw, Mich.
Moltz, Jacob J. (Combined), Williamsport, Pa.
Murray, D. J. Mfg. Co., Wausau, Wis.
Novelty Iron Works (G. E. Davis, Prop.), Du-buque, Ia.
Phoenix Mfg. Co., Eau Claire, Wis.
Smith, H. B. Machine Co., Smithville, N. J., & 121 Liberty, New York

Smith, Myers & Schnler Co., 621 W Front, Cincinnati, O.
Standard Saw Mill Machinery Co., Erie, Pa.
Union Iron Works, Bangor, Me.
United States Machine Co. (Combined or Separate), Williamsport, Pa.
Wheland Machine Works (Combined), Chattanooga, Tenn.
Wickes Bros., Saginaw, Mich.

Lath (Sheet Iron)

(See Lath Metal.)

Lath (Steel)

(See Lath Metal.)

Lath (Wire)

BUFFALO WIRE WORKS CO., 316 Terrace, Buffalo, N. Y. (See adv. index, end of book)
CLINTON WIRE CLOTH CO., Clinton, Mass. (See adv. index, end of book)
Gilbert & Bennett Mfg. Co., Georgetown, Conn.
MICHIGAN WIRE CLOTH CO., 500 Howard, Detroit, Mich. (See adv. index, end of book)
NATIONAL MFG. CO., Worcester, Mass. (See adv. index & branch offices, end of book)
ROEBLING CONSTRUCTION CO., Fuller bldg, B'way & 23d, New York. (See adv. index & branch offices, end of book)
SMITH, F. P., WIRE & IRON WORKS, 100 Lake, Chicago, Ill. (See adv. index, end of book)
TYLER, W. S. CO., Cleveland, O. & 11 B'way, New York. (See adv. index, end of book)
WRIGHT WIRE CO., Worcester, Mass. (See adv. index & branch offices, end of book)

Lath (Wood, Byrkit-Hall)

Byrkit-Hall Sheathing Lath Co., 84 La Salle, Chicago, Ill.

Lath & Picket Mills

Abbott, D. S. Co., Olean, N. Y.
Adams, S. & Son, Rome, N. Y.
American Woodworking Machine Co., Rochester, N. Y., & 136 Liberty, N. Y.
Butterworth & Lowe, Grand Rapids, Mich.
Chase Turbine Mfg. Co., Orange, Mass.
Filer & Stowell Mfg. Co., Milwaukee, Wis.
Frank Machinery Co., 50 Mechanic, Buffalo, N. Y.
Garland, M. & Co., Bay City, Mich.
Hill, W. E. & Co., Kalamazoo, Mich.
Howell, R. R. & Co., Minneapolis, Minn.
Kline, Lewis T., Alpena, Mich.
Lane Mfg. Co., Montpelier, Vt.
Mitts & Merrill, Saginaw, Mich.
Murray, D. J. Mfg. Co., Wausau, Wis.
Phoenix Mfg. Co., Eau Claire, Wis.
Power, L. & Co., 20 S 23d, Phila., Pa.
Smith, H. B. Machine Co., Smithville, N. J., & 121 Liberty, N. Y.
Smith, Myers & Schnler Co., 621 W Front, Cincinnati, O.
Union Iron Works, Bangor, Me.
Wickes Bros., Saginaw, Mich.

Lathe Dogs

(See Dogs, Lathe)

Schrattwieser Fire-Proof Construction Co. Incorporated

MANUFACTURERS OF

Fire-Proof Floors, 2 and 3-inch Partitions, Iron Furring and Sheet Metal Lath

ALL SYSTEMS OFFICIALLY TESTED AND APPROVED BY BUREAU OF BUILDINGS IN ALL BOROUGHES

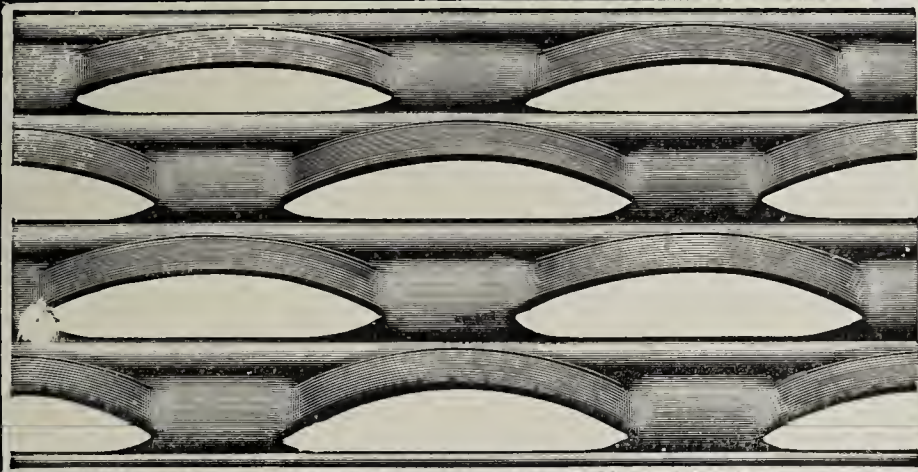
Telephone 451 South

426-432 THIRD AVE., cor. 7th St., BROOKLYN, N. Y.

THE TRADE SUPPLIED

BOSTWICK SHEET STEEL LATH
BOSTWICK CORNER BEAD
ROTHROCK METAL BRIDGING
 ALL LEADERS IN THEIR PARTICULAR LINE

**B
O
S
T
W
I
C
K
LATH**



**B
O
S
T
W
I
C
K
LATH**

IF YOU WANT ECONOMY USE THE
"MORTAR SAVER" **"BOSTWICK STEEL LATH"**

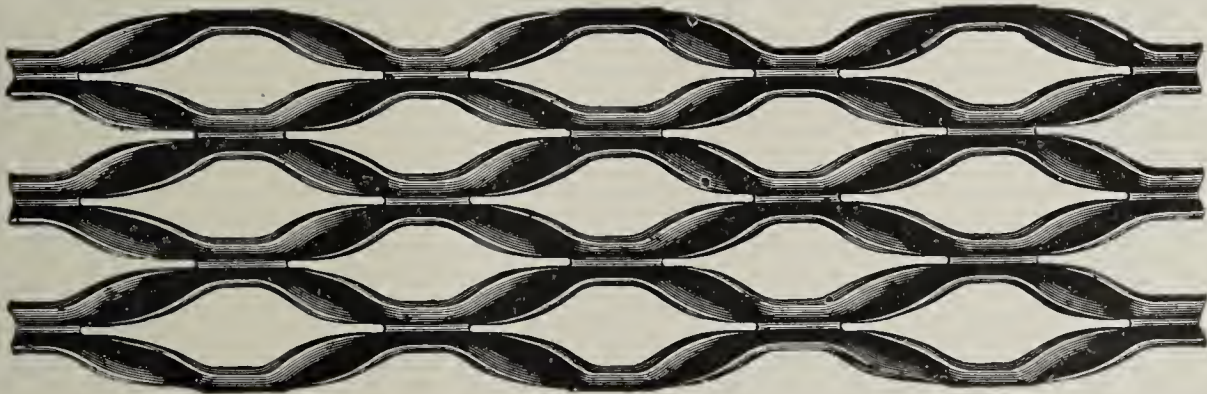
MADE ONLY BY

(ILLUSTRATED ABOVE)

THE BOSTWICK STEEL LATH CO., Niles, Ohio, U. S. A.

IMPERIAL EXPANDED METAL CO.

707-265 La Salle Street - CHICAGO, ILL.



Spiral Expanded Metal Lath.

Steel Studding for Hollow and Solid Partitions. Metal Lath can be erected on these studs in one-half the time than on any other. Metal Furring, Corner Bead and Large Mesh for Concrete Reinforcement.

THE SPIRAL TWIST MAKES THE BEST BOND AS THE CLINCH IS PERFECT.

You will find a large saving in plaster and labor, as there is no waste.

ESTIMATES FURNISHED for the erection, complete ready for plastering, of Metal Lath and necessary iron work.

SEND FOR PRICES AND SAMPLES.

IF YOU ARE INTERESTED IN FIREPROOF CONSTRUCTION, SEND FOR OUR HANDBOOK ENTITLED "CLINTON WIRE LATH"

This book was prepared under the direction of recognized authorities on lathing and plastering, and represents the results of the best and most up-to-date practice. The comprehensive and practical manner in which the different subjects are treated makes this a handbook which should find a place in the library of every one interested in fireproof construction.

"Clinton Wire Lath" is handsomely and substantially bound in boards and is illustrated with drawings and photographs of types of construction and applications.

It will be sent free upon application to any of our offices.

In writing for a copy of *"Clinton Wire Lath"* also ask for the new catalog of the *Clinton Fireproofing System—the System with the Continuous Bond*.

A building in which the plaster rests on a foundation of *Clinton Wire Lath* and whose floors, roof, ceilings and partitions are constructed according to the *Clinton Fireproofing System—the System with the Continuous Bond*—is fireproof in its most vital essentials.

CLINTON WIRE CLOTH COMPANY

NEW YORK

BOSTON

CHICAGO

SAN FRANCISCO

Lathes (Axle Turning)

Bridgeford Machine Tool Works (Single & Double Head), Rochester, N. Y.
 Bogert, John L., Flushing, B. Q., N. Y.
 Johnson, Israel H., Jr., Co., Inc., Phila., Pa.
 Lodge & Shipley Machine Tool Co., Cincinnati, O.
 Niles-Bement-Pond Co., 111 B'way, New York
 Putnam Machine Co., Fitchburg, Mass.
 Sellers, Wm. & Co. (Inc., Double Head), 1600 Hamilton, Philadelphia, Pa.
 Spears & Riddle Co., Wheeling, W. Va.
 Williams, White & Co. (For Wagon Companies), Moline, Ill.

Lathes (Ball Bat)

(See Ball Bat Machinery)

Lathes (Barrel)

Strait, H. N., Kansas City, Mo.

Lathes (Bench)

American Watch Tool Co. ("Webster-Whitcomb" Lathes), Waltham, Mass.
 Ames, B. C. & Co., Waltham, Mass.
 Carroll-Jamieson Machine Tool Co., Batavia, O.
 Cataract Tool & Optical Co., Buffalo, N. Y.
 Davis, W. P., Machine Co., Rochester, N. Y.
 Diamond Machine Co., Providence, R. I.
 Faneuil Watch Tool Co., 1 Brooks, Br., Boston
 Penn Machine Co., Hartford, Conn.
 Garvin Machine Co., 137 Varick, N. Y.
 Gump, A. W. & Co., Dayton, O.
 Massachusetts Tool Co., Greenfield, Mass.
 Niles-Bement-Pond Co., 111 B'way, New York
 Pratt & Whitney Co., Hartford, Conn.
 Reed, F. E. Co., Worcester, Mass.
 Rivett Lathe Mfg. Co., Brighton, Boston, Mass.
 Seneca Falls Mfg. Co. ("Star"), Seneca Falls, N. Y.
 Sloan & Chase Mfg. Co. (Ltd.) (& Attachments, Machinists'), Newark, N. J.
 Stark Tool Co., Waltham, Mass.
 Waltham Machine Works, Waltham, Mass.
 Waltham Watch Tool Co. (Watchmakers), Springfield, Mass.
 Welch, T. F. & Co., 55 Sudbury, Boston, Mass.

Lathes (Bobbin)

(See Spool & Bobbin Machinery)

Lathes (Bolt & Stud)

Davis, W. P. Machine Co., Rochester, N. Y.
 Johnson, Israel H., Jr., Co., Phila., Pa.
 Niles-Bement-Pond Co., 111 B'way, New York
 Reed, F. E. Co. (14 & 16 inch swing), Worcester, Mass.

Lathes (Brass Finishers')

American Tool & Machinery Co., 109 Beach, Boston, Mass.
 American Tool Works Co., Cincinnati, O.
 Bardons & Oliver, 1133 W. 9th, Cleveland, O.
 Cleveland Automatic Machine Co., 131 2d av., Cleveland, O.
 Dreses Machine Tool Co., Cincinnati, O.
 National Machine Co., Milwaukee, Wis.
 Niles-Bement-Pond Co., 111 B'way, New York
 Pratt & Whitney Co., Hartford, Conn.
 Prybil, P. (Estate of), 510 W 41st, New York
 Springfield Machine Tool Co., Springfield, O.
 Warner & Swasey Co., Cleveland, O.
 Windsor Machine Co. (and Plain Monitors), Windsor, Vt.

Lathes (Broom Handle Turning)

(See Broom Handle Turning Machinery)

*Lathes (Brush Handle)

DEFIANCE MACHINE WORKS, Defiance, O. (See adv. index, end of book)

Lathes (Buffing & Polishing)

Bridgeport Safety Emery Wheel Co., Bridgeport Conn
 Buchanan, Thos. & Co., 216 Elm, Cincinnati, O.

Buescher Band Instrument Co., Elkhart, Ind.
 Challenge Machine Co., 5036 Hazel av., Phila., Pa.

Diamond Machine Co., Providence, R. I.
 Evans, Jno. Sons, 506 N 13th, Phila., Pa.
FREVERT MACHINERY CO., 18 Dey,
 New York. (See adv. index, end of book)
 Goodell-Pratt Co., Greenfield, Mass.
 Hanson & Van Winkle, Newark, N. J.
 Hibbard, Wm. H. Mfg. Co., 79 Wash'n, Brooklyn, N. Y.

MANNING, MAXWELL & MOORE, 85,
 87 & 89 Liberty, New York. (See adv. index & branch offices, end of book)

Northampton Emery Wheel Co., Leeds, Mass.
 Oliver, W. W. Mfg. Co., Buffalo, N. Y.
 Parkhurst Bros. & Co., 218 Kentucky av., Indianapolis, Ind.

Prybil, P. (Est. of), 512 W 41st, N. Y.
REICHHEIM, E. P. & CO., 24 John,
 New York. (See adv. index, end of book)

Safety Emery Wheel Co., Springfield, Ohio
 Springfield Mfg. Co., Bridgeport, Conn.

TUOHY BROS. CO., 95 Liberty, New
 York. (See adv. index, end of book)

Waterbury-Farrel Foundry & Machine Co., Waterbury, Conn.

WATSON-STILLMAN CO., 26 Cort-
 landt, New York. (See adv. index, end of book)

Webster & Perks Tool Co. (Self-oiling), Springfield, O.

Zucker & Levett & Loeb Co., 528 W 25th, N. Y.

Lathes (Car & Driving Wheel)

Betts Machine Co. (For Driving Wheels), Wilmington, Del.
 Niles-Bement-Pond Co., 111 B'way, New York
 Putnam Machine Co., Fitchburg, Mass.
 Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Phila., Pa.

Lathes (Chasing)

(See Lathes, Brass Finishers')

Lathes (Chucking)

(See Chucking Machinery)

*Lathes (Crank Shaft Turning)

(See Lathes, Shaft Turning; also Crank Pin Turning Machines.)

Lathes (Cutting Off)

Hulburt-Rogers Co., South Sndbury, Mass.
 Niles-Bement-Pond Co., 111 B'way, New York
 Pratt & Whitney Co., Hartford, Conn.
 Putnam Machine Co., Fitchburg, Mass.

Lathes (Drill)

Diamond Machine Co. (Center), Providence, R. I.
 Whitcomb-Blaisdell Machine Tool Co., Worcester, Mass.

Lathes (Driving Wheel)

(See Lathes, Car & Driving Wheel.)

*Lathes (Dumb Bell Turning)

DEFIANCE MACHINE WORKS, Defiance, O. (See adv. index, end of book)

Lathes (Engine)

American Tool Works Co., Cincinnati, O.
 Bagshaw & Field, 317 Cherry, Phila., Pa.
 Barker, W. & Co., c Pioneer & Calvert, Cincinnati, O.
 Barnes, B. F. Co., Rockford, Ill.
 Bogert, Jno. L. (Turret), Flushing, L. I., N. Y.
 Bradford Machine Tool Co. (14 to 36-inch Swing), Cincinnati, O.

Bridgeford, Chas., Rochester, N. Y.
 Carroll-Jamieson Machine Tool Co. (14 inch), Batavia, O.

Champion Tool Works Co., Cincinnati, O.
 Davis, W. P. Machine Co., Rochester, N. Y.
 Detrick & Harvey Machine Co., 508 E Preston Baltimore, Md

Fairbanks Co. (12 & 14-inch), Springfield, O.
 Fay & Scott, Dexter, Me.

Fifield, Geo. W. (17 to 84-inch swing), Lowell Mass

Fitchburg Machine Works, Fitchburg, Mass.

Flather & Co. (screw cutting, etc.), Nashua, N. H.

FREVERT MACHINERY CO., 18 Dey,
 New York. (See adv. index, end of book)

Garvin Machine Co., 137 Varick, New York
 Gleason Tool Co., Rochester, N. Y.

Gray, G. A. Co., Gest & Depot, Cincinnati, O.
 Greaves, Klusman & Co., c Cook & Alfred, Cincinnati, O.

Hamilton Machine Tool Co. (14 to 42), Hamilton, O.

Harrington, Edwin & Son Co., 17th & Callowhill, Philadelphia, Pa.

Hendey Machine Co., Torrington, Conn.

Holmes, Chas. Machine Co., 299 Marginal, E. B., Boston, Mass.

Johnson, Israel H., Jr., Co., Phila., Pa.
KINSEY, E. A. CO., 331 W 4th, Cin-
 cinnati, O. (See adv. index, end of book)

Le Blond, R. K. Machine Tool Co., 4609 Eastern av., Cincinnati, O.

Lodge & Shipley Machine Tool Co., 3055 Cole-rain av., Cincinnati, O.

McCabe, J. J., 14 Dey, New York

Mann, Chas. A., 166 Doyle av., Providence, R. I.
MANNING, MAXWELL & MOORE, 85,
 87 & 89 Liberty, New York. (See adv. index, end of book)

Miami Valley Machine Tool Co. (13 1-2 inch by 6 foot), Dayton, O.

New Haven Mfg. Co., New Haven, Conn.

Niles-Bement-Pond Co., 111 B'way, New York
 Pitsburg Machine Tool Co. (Heavy, 27 to 76; 27 to 84), Allegheny, Pa.

Pratt & Whitney Co., Hartford, Conn.

Prentice Bros. Co. (12 to 32 inch Swing), Worcester, Mass.

Putnam Machine Co., Fitchburg, Mass.

Rahn, Carpenter Co., Spring Grove & Garrard avs, Cincinnati, O.

Reed, F. E. Co. (10 to 30 inch Swing), Worcester, Mass.

Reed, J. B. (Screw Cutting), Cairo, Ill.

Robbins, L., Worcester, Mass.

Schmacher & Boye, 2245 Spring Grove av, Cincinnati, O.

Sebastian Lathe Co., Covington, Ky.

Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Phila., Pa.

Seneca Falls Mfg. Co. ("Star" foot & power screw cutting), Seneca Falls, N. Y.

Shepard Lathe Co. (foot & power), 129 W 2d, Cincinnati, O.

Snyder & Metcalf, Waterford, N. Y.

Springfield Machine Tool Co. (14, 18 & 24-inch), Springfield, O.

TUOHY BROS., 95 Liberty, New
 York. (See adv. index, end of book)

Von Wyck Machine Tool Co., Cincinnati, O.

Walcott & Wood Machine Tool Co. (18, 22 & 32 inch Swing & 32 & 36 inch Triple Geared), Jackson, Mich.

Whitcomb-Blaisdell Machine Tool Co., Worcester, Mass.

Wickes Bros., Saginaw, Mich.

Lathes (Facing)

Reed, F. E. Co. (22 & 24 inch Swing), 120 Gold, Worcester, Mass.

Lathes (Foot Power)

Bagshaw & Field, 317 Cherry, Phila., Pa.
 Barnes, B. F. Co., Rockford, Ill.
 Barnes, W. F. & John Co., Rockford, Ill.

Carroll-Jamieson Machine Tool Co. (9 by 25), Batavia, O.

Davis, W. P. Machine Co., Rochester, N. Y.

Garvin Machine Co., 137 Varick, New York

Mann, Chas. A., 166 Doyle av., Providence, R. I.

Niles-Bement-Pond Co., 111 B'way, New York

Prentice Bros. Co., Worcester, Mass.

Purdy Machine Co. (9 & 10 swing), Ghent, O.

Quackenbush, H. M., Herkimer, N. Y.

Reed, F. E. Co. (Plain & Screw Cutting), 120 Gold, Worcester, Mass.

Sebastian Lathe Co., Covington, Ky.

Seneca Falls Mfg. Co. ("Star"), Seneca Falls, N. Y.

Shepard Lathe Co. (Turret), 129 W 2d, Cincinnati, O.

Lathes (Forging)

(See Lathes, Engine)

Lathes (Forming)

Dreses Machine Tool Co., 2259 Buck, Cincinnati, Ohio

Meriden Machine Tool Co., Meriden, Conn.

Niles-Bement-Pond Co., 111 B'way, New York
 Reed, F. E. Co. (16 inch Swing), 120 Gold, Worcester, Mass.

Lathes (Fox Monitor)

(See Lathes, Brass Finishers.)

Lathes (Gap)

(See Lathes, Engine.)

Lathes (Gauge)

American Woodworking Machinery Co., Rochester, N. Y., West St. bldg. New York
Bentel & Margedant Co., Hamilton, O.
Fay & Scott, Dexter, Me.
Goodspeed Machine Co., Winchenden, Mass.
Novelty Iron Works (G. E. Davis, Prop.), Dubuque, Ia.
Smith, H. B. Machine Co. (Brown & Howe's Automatic), Smithville, N. J., & 121 Liberty, New York
Trevor Mfg. Co., Lockport, N. Y.
Yerkes & Flann Wood Working Machine Co., St. Louis, Mo.

Lathes (Granite Column)

(See Machinery, Stone Polishing)

Lathes (Granite Polishing)

(See Machinery, Stone Polishing)

Lathes (Grinding)

Pratt & Whitney Co., Hartford, Conn.
Storey General Electric Co., Trenton, N. J.

Lathes (Gun Turning & Boring)

(See also Gun Barrel Turning Machines)

Johnson, Israel H., Jr., Co., Phila., Pa.
Niles-Bement-Pond Co., 111 B'way, New York
Phila. Roll & Machine Co., S 23d & Washington av, Phila., Pa.
Pratt & Whitney Co., Hartford, Conn.
Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Phila., Pa.

Lathes (Hand)

Brown & Sharpe Mfg. Co., Providence, R. I.
Diamond Machine Co. (Lever & Screw Feed), Providence, R. I.
Dreses Machine Tool Co., Cincinnati, O.
Fitchburg Machine Works, Fitchburg, Mass.
Garvin Machine Co., 137 Varick, New York
Johnson, Israel H., Co., Phila., Pa.
Mann, Chas. A., 186 Doyle av, Providence, R. I.
Meriden Machine Tool Co., Meriden, Conn.
Niles-Bement-Pond Co., 111 B'way, New York
Oliver, W. W., Mfg. Co. (Foot & Power), 1483 Niagara, Buffalo, N. Y.
Pratt & Whitney Co., Hartford, Conn.
Reed, F. E. Co. (9 to 26 inch Swing), 120 Gold, Worcester, Mass.
Richardson-Oliver Co. (For Light Work), Athol, Mass.
Seneca Falls Mfg. Co. ("Star," Foot & Power), Seneca Falls, N. Y.
Whitcomb-Blaisdell Machine Tool Co., Worcester, Mass.

Lathes (Handle Turning)

(See also Lathes, Wood Turning.)

American Wood Working Machinery Co., Rochester, N. Y., West St. bldg. New York
Bentel & Margedant Co., Hamilton, O.
Bradley, H. C., Bridgeport, Conn.
DEFIANCE MACHINE WORKS ("Chaplin Automatic"), Defiance, O. (See adv. index, end of book)
Empire Machine Works, Mt. Morris, N. Y.
Fay, J. A. & Egan Co., Cincinnati, O.
Gerlach, Peter Co. (Automatic for Turning & Boring for Pail, File & Other Short Handles), 1708 Columbus rd., Cleveland, O.
Kline, Lewis T. (Automatic Broom Handle, etc.), Alpent, Mich.
Klotz Machine Co., Sandusky, O.
Ober Mfg. Co., Chagrin Falls, O.
Pringle & Brodie Machinery Co., 277 S Canal, Chicago, Ill.
Seymour & Whitlock, Newark, N. J.
Smith, H. B. Machine Co., Smithville, N. J., & 121 Liberty, New York
Trevor Mfg. Co., Lockport, N. Y.
Waymoth, A. D. & Co., Fitchburg, Mass.
Wilder, Chas. W. (Auger, Paint Brush, File, etc.), Fitchburg, Mass.

Lathes (Hard Rubber)

Adamson, A., Akron, O.

Lathes (Indian Club Turning)*DEFIANCE MACHINE WORKS**, Defiance, O. (See adv. index, end of book)**Lathes (Ingot)**

(See Lathes, Engine)

Lathes (Insulator)

DEFIANCE MACHINE WORKS (Turning & Threading), Defiance, O. (See adv. index, end of book)
Trevor Mfg. Co. (Turning & Threading), Lockport, N. Y.

Lathes (Jar Ring)

Adamson, Alex., Akron, O.
AITON MACHINE CO., 126 Liberty, New York. (See adv. index, end of book)
Birmingham Iron Foundry, Derby, Conn.
Thropp, Wm. R., Trenton, N. J.

Lathes (Knurling)

Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.

Lathes (Last)

DEFIANCE MACHINE WORKS, Defiance, O. (See adv. index, end of book)
Gilman & Son, Springfield, Vt.
Kimball Bros. & Sprague (Block & Turning), Brockton, Mass.

Lathes (Long Handle)*DEFIANCE MACHINE WORKS**, Defiance, O. (See adv. index, end of book)**Lathes (Manual Training)**

Hobbs Mfg. Co., Worcester, Mass.
Reed, F. E. Co. (Wood Turning), Worcester, Mass.
Seneca Falls Mfg. Co., Seneca Falls, N. Y.

Lathes (Marble Turning)

(See Lathes, Stone.)

Lathes (Monitor)

(See Lathes, Turret.)

Lathes (Neck-Yoke & Single-trees)

Trevor Mfg. Co., Lockport, N. Y.

Lathes (Optical Grinding)

Carr, Jos. (Also Discs), 132 N 7th, Phila., Pa.
Cataract Tool & Optical Co., Buffalo, N. Y.

Lathes (Pattern Makers')

American Wood Working Machinery Co., Rochester, N. Y., West St. bldg. New York
Atlantic Works, Philadelphia, Pa.
Bentel & Margedant Co., Hamilton, O.
Blount, J. G. Co. (Set-over Swivel Tailstock, etc.), Everett, Mass.
Cordesman, Rehtin Co., 25 Butler, Cincinnati, O.
Dennis Machine Co., Jackson, Mich.
Fay, J. A. & Egan Co., Cincinnati, O.
Fay & Scott, Dexter, Me.
Fitchburg Machine Works, Fitchburg, Mass.
Fox Machine Co., Grand Rapids, Mich.
Frank Machinery Co., 214 Terrace, Buffalo, N. Y.
Greaves, Klusman & Co., Cook c. Alford, Cincinnati, O.
National Machine Works, Milwaukee, Wis.
New Haven Mfg. Co., New Haven, Conn.
Oliver Machinery Co., Grand Rapids, Mich.
Purdy Machine Co., Ghent, O.
Putnam Machine Co., Fitchburg, Mass.
Rogers, C. B. & Co., Norwich, Conn.
Whitcomb-Blaisdell Machine Tool Co., Worcester, Mass.

Lathes (Photo-Engravers')

Royle, Jno. & Sons (Inc.), Paterson, N. J.

Lathes (Pike Pole Turning)*DEFIANCE MACHINE WORKS**, Defiance, O. (See adv. index, end of book)**Lathes (Polishing)**

(See Lathes, Buffing & Polishing.)

Lathes (Precision)

American Watch Tool Co., Waltham, Mass.
Faneuil Watch Tool Co. (The Rivett), Brighton, Boston, Mass.
Massachusetts Tool Co., Greenfield, Mass.
Rivett Lathe Mfg. Co., Brighton, Boston, Mass.
Stark Tool Co., Waltham, Mass.

Lathes (Projectile Boring & Turning)

(See Lathes, Gun Turning & Boring)

Lathes (Pulley Turning)

American Tool Works Co., Cincinnati, O.
New Haven Mfg. Co., New Haven, Conn.
Niles-Bement-Pond Co., 111 B'way, New York
Prentice Bros. Co., Worcester, Mass.
Putnam Machine Co., Fitchburg, Mass.
Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Phila., Pa.
Streit, A. Machine Co., 309 W 2d, Cincinnati, O.

Lathes (Rake Handle)

(See Rake Handle Machinery)

Lathes (Roll Engraving)

Gould & Eberhardt, Newark, N. J.

Lathes (Roll Polishing)

Gould & Eberhardt, Newark, N. J.

Lathes (Roll Turning)

(See also Machinery, Rolling Mill.)

Gould & Eberhardt, Newark, N. J.
Hogg, Geo. A. Iron & Steel Foundry Co., 24th & A V R'y, Pittsburg, Pa.
Lewis Foundry & Machine Co., Pittsburg, Pa.
Mesta Machine Co., Lewis blk, Pittsburg, Pa.
Morgan Construction Co., Worcester, Mass.
Phila. Roll & Machine Co., S 23d & Washington av, Phila., Pa.
Phillips & McLaren, 24th & Smallman, Pittsburg, Pa.
Scafe Foundry & Machine Co., Pittsburg, Pa.
Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Phila., Pa.
Trethewey, Sam'l & Co., Pittsburg, Pa.
United Engineering & Foundry Co., Farmers' Bank bldg, Pittsburg, Pa.

Lathes (Roughing)

Schumacher & Boye, 2245 Spring Grove av, United Engineering & Foundry Co., 54th & A V Ry, Pittsburg, Pa., & Youngstown, O.

Lathes (Screw Cutting)

(See also Lathes, Engine; also Lathes, Turret; also Screw Machines)

American Tool Works Co. (Screw Cutting Engine), Cincinnati, O.
American Watch Tool Co. (Watchmaker's), Waltham, Mass.
Anderson Silk Co., Cincinnati, O.
Automatic Machine Co. ("Automatic" for Worms & Screws), Bridgeport, Conn.
Barker & Chord Machine Tool Co., Cincinnati, O.
Barnes, B. F. Co., Rockford, Ill.
Barnes, W. F. & John Co., Rockford, Ill.
Blaisdell & Co. (High Speed), Worcester, Mass.
Bradford Machine Tool Co., Cincinnati, O.
Bridgeford, Chas., Rochester, N. Y.
Carroll-Jamieson Machine Tool Co. (9 Inch Back Geared), Batavia, O.
Davis, W. P. Machine Co., Rochester, N. Y.
Detrick & Harvey Machine Co., Baltimore, Md.
Draper Machine Tool Co., Worcester, Mass.
Fay & Scott, Dexter, Me.

Flsh, H. C. Machine Works, Worcester, Mass.
 Fitchburg Machine Works, Fitchburg, Mass.
 Flatber & Co., Nassau, N. H.
 Greaves, Klusman & Co., Cincinnati, O.
 Hamilton Machine Tool Co., Hamilton, O.
 Harrington, E. Son & Co., Philadelphia, Pa.
 Hendey Machine Co., Torrington, Conn.
 Johnson, Eugene E., Worcester, Mass.
 Johnson, Israel H., Jr., Co., Philadelphia, Pa.
 Le Blond, R. K. Machine Tool Co., Cincinnati, O.
 Lodge & Sibley Machine Tool Co., 3055 Cole-
 rain av, Cincinnati, O.
 McCabe, J. J., 14 Dey, N. Y.
 Mann, Cbas. A., Providence, R. I.
 New Haven Mfg. Co., New Haven, Conn.
 Niles-Bement-Pond Co., 111 B'way, New York
 Perkins, F. S. Co., Lowell, Mass.
 Pittsburg Machine Tool Co., Allegheny, Pa.
 Reed, F. E. Co. (Foot Power), Worcester, Mass.
 Sebastian Lathe Co. (Foot), Covington, Ky.
 Seneca Falls Mfg. Co. ("Star," Foot), Seneca
 Falls, N. Y.
 Reed, F. E. Co. (Foot Power), Worcester, Mass.

Lathes (Shaft Turning)

American Tool Works Co., Cincinnati, O.
 Brightman Mfg. Co., Shelby, O.
 Fitchburg Machine Works, Fitchburg, Mass.
 Johnson, Israel, Jr., Co., Philadelphia, Pa.
 Niles-Bement-Pond Co., 111 B'way, New York
 Putnam Machine Co., Fitchburg, Mass.
 Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Phila.,
 Pa.
 Springfield Machine Tool Co., Springfield, O.
 Tindel-Morris Co. (Crank-Shaft, etc.), Eddy-
 stone, Pa., & Ellwood City, Pa.

Lathes (Shoe Last Turning)

(See Lathes, Last)

Lathes (Speed)

Blount, J. G. & Co., Everett, Mass.
 Carroll-Jamieson Machine Tool Co., Batavia, O.
 Chickering, W. F., Worcester, Mass.
 Diamond Machine Co., Providence, R. I.
 Fay & Scott, Dexter, Me.
 Fitchburg Machine Works, Fitchburg, Mass.

Garvin Machine Co., 137 Varick, New York
 Grant Mfg. & Machine Co. (Spencer"), Bridge-
 port, Conn.
 Grabo, E. O. (for Brass, etc.), 180 Centre, New
 Grimes & Harris, Leominster, Mass. York
 Kidder, R. E., 2 Hermon, Worcester, Mass.
MANNING, MAXWELL & MOORE
 (Lever & Screwfeed), 85, 87 & 89 Liberty,
 New York. (See adv. index, end of book)
 Moline Tool Co. ("R. & V."), Moline, Ill.
 National Machine Co., Milwaukee, Wis.
 Niles-Bement-Pond Co., 111 B'way, New York
 Oliver, W. W. Mfg. Co. (Jewelers), 1483
 Niagara, Buffalo, N. Y.
 Oliver Machinery Co. (for Wood), Grand Rapids,
 Sebastian Lathe Co., Covington, Ky. Mich.
 Seneca Falls Mfg. Co. ("Star," Foot), Seneca
 Falls, N. Y.
 Snyder & Metcalf, Waterford, N. Y.
 Spencer, J. E., Bridgeport, Conn.
 Washburn Shops of the Polytechnic Institute,
 Worcester, Mass.
 Wells, F. E. & Son Co., Greenfield, Mass.
 Whitcomb-Blaisdell Machine Tool Co. (High
 Speed), Worcester, Mass.

Lathes (Spinning)

Blake & Johnson, Waterbury, Conn.
BLISS, E. W. CO., 19 Adams, Brook-
 lyn, N. Y. (See adv. index, end of book)
 Diamond Machine Co., Providence, R. I.
 Ferracute Machine Co., Bridgeport, N. J.
 Garvin Machine Co., 137 Varick, New York
 Good Mfg. Co., N Jefferson & Fulton, Chicago,
 Grabo, E. O., 180 Centre, New York. Ill.
 Greaves, Kinsman & Co., Cook c Alfred, Cin-
 cinnati, O.
 Hibbard, Wm. H. Mfg. Co., 79 Wash'n, Brook-
 lyn, N. Y.
 Manville, E. J. Machine Co., Waterbury, Conn.
 Meriden Machine Tool Co., Meriden, Conn.
NIAGARA MACHINE & TOOL
 Works, Buffalo, N. Y. (See adv. index, end
 of book)
 Niles-Bement-Pond Co., 111 B'way, New York
 Prybil, P. (Estate of), 514 W 41st, New York
 Waterbury Farrel Foundry & Machine Co.,
 Waterbury, Conn.

Lathes (Spoke)

(See also Lathes, Handle Turning; also Lathes,
 Wood Turning)

Bentel & Margedant Co., Hamilton, O.
DEFIANCE MACHINE WORKS, De-
 fiance, O. (See adv. index, end of book)
 Fay, J. A. & Egan Co., Cincinnati, O.
 Humphrey Machine Co., Kerne, N. H.
 Ober Mfg. Co., Chagrin Falls, O.
 Trevor Mfg. Co., Lockport, N. Y.

Lathes (Spool)

(See Spool & Bobbin Machinery)

Lathes (Stone Polishing)

(See Machinery, Stone Polishing; also Lathes,
 Stone)

Lathes (Stone)

Ellison Bros., 2213 Bridge, Frankford, Phila-
 Hinds, Thomas, Malone, N. Y. delphia, Pa.
 Lincoln Iron Works, Rutland, Vt.
 Patch, F. R. Mfg. Co., Rutland, Vt.
 Putnam Machine Co., Fitchburg, Mass.
 Scoville, H. H. & Co., 1088 Wilcox av, Chicago,
 Ill.

Lathes (Strapping)

Bridgeport Safety Emery Wheel Co., Bridgeport,
 Conn.
 Springfield Mfg. Co., Bridgeport, Conn.

*Lathes (Table Leg Turning)

DEFIANCE MACHINE WORKS, De-
 fiance, O. (See adv. index, end of book)

*Lathes (Ten Pin Turning)

DEFIANCE MACHINE WORKS, De-
 fiance, O. (See adv. index, end of book)

Lathes (Treenail)

Trevor Mfg. Co., Lockport, N. Y.



Gisholt Turret Lathes

On work requiring Boring, Turning and Facing also Threading if desired, one Gisholt will do as much work as from two to four engine lathes and with an average for accuracy that is greater than the engine lathe. We have had some twenty years of experience in equipping lathes of this class and have made thousands of different tool outfits. If you are interested in reducing time on this class of work, write us, or better, send us blue prints and we will advise you regarding the adaptability of Gisholt Lathes to your work. Six Sizes. Complete Catalogs Issued.

GISHOLT MACHINE COMPANY

Works: MADISON, WIS. — WARREN, PA.

General Offices, 1301 Washington Avenue, Madison, Wis., U. S. A.

Lathes (Trimming)

Hibbard, Wm. H. Mfg. Co., 79 Wash'n, Brooklyn, N. Y.
 Leffler, Chas. & Co., 63 Clymer, Brooklyn, N. Y.
 Manville, E. J. Machine Co., Waterbury, Conn.
 Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.

Lathes (Turret)

(See also Screw Machines)

American Tool Works Co., Cincinnati, O.
 American Tool & Machine Co. (Brass Finishers), 109 Beach, Boston, Mass.
 Bardons & Oliver (All Kinds), 1133 W. 9th, Cleveland, O.
 Bullard Machine Tool Co. (Vertical & Combination Turret), Bridgeport, Conn.
 Carroll-Jamieson Machine Tool Co. (14 Inch Back Geared), Batavia, O.
 Carter & Hakes Machine Co. ("Blood" Automatic), Winsted, Conn.
 Dreses Machine Tool Co. (Universal), Cincinnati, O.
 Fay & Scott, Dexter, Me.
 Foster-Kimball Machine Co. (Or Screw Cutting Machines), Elkhart, Ind.
 Garvin Machine Co., 137 Varick, New York
GISHOLT MACHINE CO. (For Both Bar & Chucked Work), Madison, Wis. (See adv. on preceding page)
 Hendey Machine Co. (For Engine), Torrington, Conn.
KINSEY, E. A. CO., 331 W 4th, Cincinnati, O. (See adv. index, end of book)
 Jones & Lamson Machine Co., Springfield, Vt.
 Lodge & Shipley Machine Tool Co., 3055 Colerain av., Cincinnati, O.
MANNING, MAXWELL & MOORE, 85, 87 & 89 Liberty, New York. (See adv. index, end of book)
 Massey Machine Co. ("Ring," Turret), Watertown, N. Y.
 Meriden Machine Tool Co., Meriden, Conn.
 National Machine Co., Milwaukee, Wis.
 Niles-Bement-Pond Co., 111 B'way, New York
 Potter & Johnston Machine Co. (Double Turret Manufacturing), Pawtucket, R. I.
 Pratt & Whitney Co., Hartford, Conn.
 Rahn-Carpenter Co., Spring Grove & Girard av., Cincinnati, O.
 Reed, F. E. Co. (22 to 24-inch Swing), Worcester, Mass.
 Shepard Lathe Co., Cincinnati, O.
 Springfield Machine Tool Co., Springfield, O.
 Steinle Turret Machine Co. (Full Swing), Madison, Wis.
TUOHY BROS., 95 Liberty, New York (See adv. index, end of book)
 Walcott & Wood Machine Tool Co. (22-inch will set over Turret on Shears), Jackson, Mich.
 Warner & Swasey Co., Cleveland, O.
 Windsor Machine Co. ("Gridley" Automatic), Windsor, Vt.

Lathes (Variety Turning)

Bentel & Margedant Co., Hamilton, O.
 Bradley, H. O., Bridgeport, Conn.
 Cowdrey, C. H., Machine Works, Fitchburg, Mass.
 Kline, Lewis T. (Automatic), Alpena, Mich.
 Ober Mfg. Co., Chagrin Falls, O.
 Pringle & Brodie Machinery Co., 277 S. Canal, Chicago
 Waymouth, A. D. & Co. (Self-Centering & Self-Adjusting, etc.), Fitchburg, Mass.
 Wilder, Chas. W. (For Small Turnings of all Kinds), Fitchburg, Mass.

Lathes (Watchmakers')

American Watch Tool Co., Waltham, Mass.
 Fanuell Watch Tool Co., 1 Brooks, Boston, Mass.
 Hardinge Bros., 1036 Lincoln av., Chicago, Ill.
 Rivett Lathe Mfg. Co., Brighton, Boston, Mass.
 Waltham Watch Tool Co., Springfield, Mass.

Lathes (Winding)

Pittsburg Machine Tool Co., Allegheny, Pa.
 Sommerfeld Machine & Mfg. Co. (For Winding Magnets), 224 3d av., Pittsburg, Pa.

Lathes (Wood Polishing)

Bradley, H. C., Bridgeport, Conn.

Lathes (Wood Pulley)

(See Wood Pulley Machinery)
 (See Laundry Supplies, Electric)

Lathes (Wood Working)

American Sawmill Machinery Co., 114 Liberty, New York. Works: Hackettstown, N. J.
 American Wood Working Machinery Co., Rochester, N. Y., West St. Bldg.
 Atlantic Works (Inc.), 28th & Grays Ferry rd., Phila., Pa.
 Baldwin, Tuthill & Bolton, Grand Rapids, Mich.
 Barnes, W. F. & John Co., Rockford, Ill.
 Bentel & Margedant Co. (Spokes, Handles, etc.), Hamilton, O.
 Cadillac Motor Car Co., Detroit, Mich.
 Carey, W. W., Lowell, Mass.
 Carroll-Jamieson Machine Tool Co., Batavia, O.
 Cordesman, Rechin Co., 25 Butler, Cincinnati, O.
 Cordesman, Meyers & Co., 53 Central av., Cincinnati, O.
 Cowdry, C. H., Machine Works (Variety Turning), Fitchburg, Mass.
DEFIANCE MACHINE WORKS, Defiance, O. (See adv. index, end of book)
 Fay, J. A. & Egan Co., Front c. John, W. Cincinnati, O.
 Fay & Scott, Dexter, Me.
 Frank Machinery Co., 214 Terrace, Buffalo, N. Y.
GRAMMES, L. F. & SONS (All Kinds), Allentown, Pa. (See adv. index, end of book)
 Greaves, Klusman & Co., Cook & Alfred, Cincinnati, O.
 Hobbs Mfg. Co., Worcester, Mass.
 Holmes, B. B. Machinery Co., Buffalo, N. Y.
 National Machine Co., Milwaukee, Wis.
 New Haven Mfg. Co., New Haven, Conn.
 Ober Mfg. Co., Chagrin Falls, O.
 Oliver Machinery Co., Grand Rapids, Mich.
 Porter, O. O. & A. D., Grand Rapids, Mich.
 Power, L. & Co., 20 S 23d, Phila., Pa.
 Pringle & Brodie Machinery Co. (Back Knife Variety Turning), 277 S. Canal, Chicago, Ill.
 Prybil, Paul (estate of), 512 W 41st, N. Y.
 Purdy Machine Co., Ghent, O.
 Rutishauser, Eugene (Automatic), 67 N. Sangamon, Chicago
 Sebastian Lathe Co., Covington, Ky.
 Seneca Falls Mfg. Co. ("Star"), Seneca Falls, N. Y.
 Smith H. B. Machine Co., Smithville, N. J., & 121 Liberty, New York
 Steggall, A., Owosso, Mich.
 Trevor Mfg. Co. (Turnings up to 8 inches), Lockport, N. Y.
 Waymouth, A. D. & Co. (Variety, etc.), Fitchburg, Mass.
 Wilder, Chas. W., Fitchburg, Mass.

Lathes (Worm Threading)

Automatic Machine Co. (Automatic), Bridgeport, Conn.

Lathes (Yacht Spar)

Trevor Mfg. Co., Lockport, N. Y.

Lathes (Zinc)

Midland Foundry & Machine Works Co., 2156 15th, Denver, Col.
 Pacific Tank Co. (for Cutting Zinc Shavings), San Francisco & Los Angeles, Cal.

Laughing Galleries

Ingersoll Construction Co., 307 4th av., Pittsburgh, Pa.

Launches

(See Motor Boat, Launch & Yacht Builders)

Laundry Dryers

(See also Clothes Dryers)

CANTON CLOTHES DRYER & MFG. Co. Canton O. (See adv. index & branch offices, end of book)
 Chicago Dryer Co., 346 Wabash av., Chicago, Ill.
 Dryer Mfg. Co., 204 E. 26th, New York
 Mannen & Esterly Co. (Manest), 2247 St. Clair, Cleveland, O.
 Metal Fire Proof Clothes Dryer Co., 534 W 58th, New York
 Steel Roll Machine Co., S S. Canal, Chicago, Ill.

Laundry Ironing Stoves

(See Stoves, Laundry)

Laundry Irons (Electric)

(See Laundry Supplies)

Laundry Machinery

(See Machinery, Laundry)

Laundry Supplies (Electric)

American Electrical Heater Co., Detroit, Mich.
 Simplex Electrical Co., 110 State, Boston, Mass.

Laundry Tub Covers.

Greason Mfg. Co. (Galvanized Iron), 108 W 99th, New York

Laundry Tub Legs

Modern Iron Works, Quincy, Ill.

Laundry Tubs (Artificial Stone)

Adams, E. G., Kingston, N. Y.
 Anchor Stone Laundry Tray Co., The "Phoenix," Minneapolis, Minn.
 Hardin, Jno., 4543 Cottage Grove av., Chicago, Ill.
 Robinson Stoneware Co., 244 Greenpoint av., Brooklyn, N. Y.
 Union Granite Co., Weehawken, N. J.
 Weehawken Granite Co., Weehawken, N. J.

Laundry Tubs (Enameled Iron)

(See Bath Tubs, Enameled Iron.)

Laundry Tubs (Euclid Stone)

Norcross Co., 269 W. River, Cleveland, O.

Laundry Tubs (Glazed Fire Clay)

Gladding, McBean & Co., Rialto bldg., San Francisco, Cal.

Laundry Tubs (Porcelain)

(See Bath Tubs, Porcelain.)

Laundry Tubs (Slate)

Allen's, S. Sons, Fair Haven, Vt.
 American Slate Co., Bangor, Pa.
 Auld, Conger & Co., Cleveland, O.
 Bangor Crescent Slate Co., Bangor, Pa.
 Bangor Slate Co., Bangor, Pa.
 Caskie, Samuel, Walnutport, Pa.
 Chicago Slate & Mantel Co., 232 S. Clinton, Chicago, Ill.
 Cleveland Mantel & Tile Co., 100 Sterling av., Cleveland, O.
 Connolly Supply Co. (Slate Lined), 1073 Atlantic av., Brooklyn, N. Y.
 East Bangor Consolidated Slate Co., E. Bangor, Pa.
 Fair Haven Marble & Marbleized Slate Co., Fair Haven, Vt.
 Hahn, Granville, Walnutport, Pa.
 Hinchey Bros., Hydeville, Vt.
 Illinois Marble Co., Edwardsville, Ill.
 McKenna, David, Slatington, Pa.
MEADOWBROOK SLATE CO., Slatington, Pa. (See adv. index, end of book)
 Monson Consolidated Slate Co., Bath, Me.
 Monson Maine Slate Co., 113 Devonshire, Boston, Mass.
 New York Slate Works, 493 E. 138th, New York
 North Bangor Slate Co., Bangor, Pa.
 O'Day Bros., Hydeville, Vt.
 Ontalaunce Slate Mfg. Co., Lynnport, Pa.
 Peerless Slate Co., Delta, Pa.
 Pelican Slate Mfg. Co., Pottstown, Pa., and Wind Gap, Pa.
 Penna Structural Slate Co., Easton, Pa.
 Penryn Slate Co., 493 E 138th
 Provident Slate Co., Slatington, Pa.
 Scotch Hill Slate Co., Fair Haven, Vt.
SCRANTON SLATE CO., Slatington, Pa. (See adv. index, end of book)
 Slatington Slate Co., Slatington, Pa.
 Union Soapstone Co., 14 Marshall, Boston, Mass.
 Williams Slate Co., Arvon, Va.
 Wolff, L. Mfg. Co., 117 W. Lake, Chicago, Ill.

Laundry Tubs (Soapstone)

Alberene Stone Co., 223 E 23d, New York, and 60 N Clinton, Chicago, Ill.
 Butler, Philip H. & Co., 25 Haverhill, Boston, Mass.
 Clow, Jas. B. & Sons, 342 Franklin, Chicago, Ill.

Connolly Supply Co., 1073 Atlantic av, Brooklyn, N. Y.
 Franklin Slate Co., 122 Franklin, Phila., Pa.
 Illinois Marble Co., Edwardsville, Ill.
 National Soapstone Co., 385 1st av, New York
 Plumbers' Soapstone Co. of America, Oak Ridge, Pa.
 Robinson Stoneware Co., 244 Greenpoint av, Brooklyn, N. Y.
 Troy Bros. & Co., 91 Haverhill, Boston, Mass.
 Union Granite Co., Weehawken, N. J.
 Union Soapstone Co., 14 Marshall, Boston, Mass.
 Virginia Soapstone Co., Schupler, Va., & 86 Lincoln av, New York
 Wolff, L. Mfg. Co., 117 W Lake, Chicago, Ill.

Lavatories (Ship)

Bishop, Wm. Sons, 205 South, New York
 Curtiss Co., 67 Gold, New York
 Hodgdon Brass Works, 162 High, Boston, Mass.
 Sands, Alfred B. & Son Co., 242 Water, New York
 Webb, F. W. Mfg. Co., Boston, Mass.

Lavatories & Fittings

Adee, Fred. Co., 44 Cliff, New York
 Bailey-Farrell Mfg. Co., Pittsburg, Pa.
 Barrett, James Mfg. Co., 211 Franklin, Boston, Mass.
 Cahill Iron Works (Enameled Iron), Chattanooga, Tenn.
 Chambers & Alslee, 2 Commercial, Newark, N. J.
 Clow, James B. & Sons, 344 Franklin, Chicago, Ill.
 Cooper, Wm. S. Brass Works, 437 N. 12th, Phila., Pa.
 Dalton-Ingersoll Co., 175 High, Boston, Mass.
 Detroit Sanitary Supply Co., 27 Jefferson, Detroit, Mich.
 Edwardsville Brass Co., Edwardsville, Ill.
 Exeter Brass Works, Exeter, N. H.
 Fort Pitt Supply Co., 332 2d av, Pittsburg, Pa.
 Haines, Jones & Cadbury Co., 1136 Ridge av, Phila., Pa.
 Hess, Chas. Co. (for Export), 129 Front, New York
 Huber, Henry Co., 224 5th av, New York
 Humphries Mfg. Co. (Enameled Iron), Maudsfield, O.
 Kohler, J. M. Sons Co. (Enameled Iron Lavatories), Sheboygan, Wis.
 Kupferle, John C., 2d & Mound, St. Louis, Mo.
 McCambridge & Co. (Ltd.), 315 N 20th, Philadelphia, Pa.
 McCrum-Howell Co., 46 E 20th, New York
 McVay & Walker, Braddock, Pa.
 Maryland Foundry Co. (Enameled Iron), Baltimore, Md.
 Mott, J. L., Iron Works, 118 5th av, New York
 Mueller, H., Mfg. Co., Decatur, Ill.
 Nelson, N. O., Mfg. Co., St. Louis, Mo.
 Peck Bros. & Co., 125 Chestnut, New Haven, Conn.
 Pittsburg Brass Mfg. Co., Allegheny, Pa.
 Rundle Mfg. Co., Milwaukee, Wis.
 Rundle-Spence Mfg. Co., 67 2d, Milwaukee, Wis.
 Smith & Anthony Co., 48 Union, Boston, Mass.
STEIN, HENRY, 48 Cliff, N. Y. (See adv. index, end of book)
 Union Brass Works Co. (Soderlund Fixtures), 7 Sherman, Chas'n. Boston, Mass.
 Wolff, L. Mfg. Co., 117 W Lake, Chicago, Ill.

Lavatory Legs.

American Pin Co. (Brass), Waterbury, Conn.
 Climax Specialty Co., Seneca Falls, N. Y.
 Clow, Jas. B. & Sons, Chicago, Ill.
 Du Bois, F. N., 243 9th av, New York
 Edwardsville Brass Co., Edwardsville, Ill.
 Haines, Jones & Cadbury Co., 1136 Ridge av, Phila., Pa.
 Illinois Malleable Iron Co., 30 W Monroe, Chicago, Ill.
 McCambridge & Co., Ltd., 315 N 20th, Philadelphia, Pa.
 Mott, J. L., Iron Works, 118 5th av, N. Y.
 Mullaney's, Jas. Son. (Brass Basin), 25th & Lexington, New York
 Ohio Brass & Iron Mfg. Co., Cleveland, O.
 Pittsburg Brass Mfg. Co., Allegheny, Pa.
 Sanitary Co. ("Paragon" Brass), 7 Water, Cleveland, O.

UNION EQUIPMENT AND BRONZE CO.

520 W 36th, N. Y. (See adv. outside stencil)
 Victor Excelsior Brass Works, "Nickel Plated," 128 White, N. Y.
 Warren Brass Co., Warren, O.
 Wolverine Brass Works, Grand Rapids, Mich.

Lavatory Spring Hinges

BOMMER SPRING HINGES

257 to 271 Classon av, Brooklyn, N. Y. (See adv. index, end of book)
 Chicago Spring Butt Co., 491 Carroll av, Chicago, Ill.

Lavatory Trimmings

Climax Specialty Co., Seneca Falls, N. Y.
 Edwardsville Brass Co., Edwardsville, Ill.
 Hess, Chas. Co. (For Export), 129 Front, New York City
 Park & McKay Co., Detroit, Mich.

Lawn Furniture

(See Fountains, Vases, etc.; also Settees & Chairs, Iron; also Settees & Chairs, Lawn); also Rustic Wood Work; also Swings, Lawn)

Lawn Mower Mfrs.

American Die & Tool Co. ("Acme", Ball Bearing Reel & Roller Bearing Wheel), Reading, Pa.
 American Lawn Mower Co. ("Favorite", "Advance", "Yale", "Columbia", Ball Bearing), Muncie, Ind.
 Avery, B. F. & Sons (The Dewey & Princess), Louisville, Ky.
 Blair Mfg. Co. (Lawn Mowers' "Easy" Parallel Bearings, will cut borders, mounds, close to walls, fences, etc., "Cyclemower", "Heracles", "Bay State", "Victor", "Mohawk", "Grand Universal", "Giant Universal", "High Wheel Universal", "Universal" all ball or parallel bearings, "Yankee" Parallel bearings only), Springfield, Mass.
 Braun, Jno. & Sons, 1615 N 23d, Phila., Pa.
 Chadborn & Caldwell Co. ("New Model", "Rival", "O. K.", "Excelsior", "Roller Golf", "Royal Blue" & "Lenox" Ball Bearing, "Invincible"), Newburgh, N. Y.
 Clipper Lawn Mower Co. ("Clipper" Hand & Pony, Cuts Grass Any Height), Dixon, Ill.
 Coldwell Lawn Mower Co. ("Lakewood", "Imperial"), Newburgh, N. Y.
 Dille & McGuire Mfg. Co. (McGuire Ball Bearing), Richmond, Ind.
 Eclipse Lawn Mower Co. ("Eclipse" & Self Sharpening), Prophetstown, Ill.
 Elwood Lawn Mower Co., Elwood, Ind.
 Enterprise Mfg. Co. (Enterprise), 3d & Dauphin, Phila., Pa.
 F. & N. Lawn Mower Co. ("F. & N."), Richmond, Ind.
 Hunt, Helm, Ferris & Co. ("Standard", "New Harvard", "Illinois", "Lawn Queen" & "Little Giant"), Harvard, Ill.
 Jewett, H. M., Moravia, N. Y.
 McIntosh Hardware Corp. ("Euclid av." Ball Bearing), 725 Superior, Cleveland, O.
 Mast Foss & Co. ("Buckeye" Ball Bearing, "Mascot"), Springfield, O.
 Ney Mfg. Co., Canton, O.
 Ohio Winger Co., Springfield, O.
 Phila. Lawn Mower Co. ("The Philadelphia"), 3107 Chestnut, Phila., Pa.
 Reading Hardware Co., Reading, Pa.
 Reading Standard Cycle Mfg. Co. ("Standard" Ball Bearing), Reading, Pa.
 Root Bros. Co. ("Ideal"), Plymouth, O.
 Stearns, E. C. & Co., Syracuse, N. Y.
 Supplee Hardware Co. ("Pennsylvania" Ball Bearing, "Continental", "Great American" Ball Bearing, Self Sharpening, "Bellevue" Ball Bearing, "New Quaker", "New Departure", "Girard", "Electric", "Westfield"), 503 Market, Phila., Pa.
 Thomas Mfg. Co., Springfield, O.
 Townsend, S. P. & Co. (Lawn Mowers "Lyon", "Spider", "Victor", "Premier", "Essex", "Orange", "Matchless" All Ball Bearing "Townsend" Chain Roller Mower), Orange, N. J.
WHITMAN & BARNES MFG. CO.
 "W. & B.", "New Diamond", "New Electric" & "New Norka", Chicago, Ill. (See adv. index & branch offices, end of book)
 Worcester Lawn Mower Co. ("Worcester", "Highland", "Homestead" & "Green Mountain"), Worcester, Mass.

Lawn Mower Mfrs. (Horse)

Chadborn & Caldwell Co. ("New Excelsior"), Newburgh, N. Y.
 Clipper Lawn Mower Co. ("Clipper" Pony, Cuts Grass Any Height), Dixon, Ill.

Supplee Hardware Co. ("25-Inch Pony & "Pennsylvania" Horse, 30 to 38 inches cut), 503 Market, Phila., Pa.
 Townsend, S. P. & Co. ("Townsend's" Triple Ratchet), Orange, N. J.

Lawn Mower Sharpeners

(See Sharpeners, Lawn Mower)

Lawn Sprinklers

Allen, W. D. Mfg. Co. ("Mayflower"), 151 Lake, Chicago, Ill.
 Detroit Lead Pipe & Sheet Lead Works, Detroit, Mich.
 Enterprise Mfg. Co. (Enterprise), 3d & Dauphin, Philadelphia, Pa.
 Forest City Foundry & Mfg. Co. ("Klondyke"), Cleveland, O.
 Haydenville Co., Haydenville, Mass.
 Hays Mfg. Co., Erie, Pa.
 Humphries Mfg. Co., Mansfield, O.
 Kohler, F. E. & Co., Canton, O.
 Kupferle, John C., 2d & Mound, St. Louis, Mo.
 Landers, Frary & Clark ("Crown"), New Britain, Conn.
 Neumeyer, H. F., Macungie, Pa.
 Noera Mfg. Co. ("Noera", "Waterbury"), Waterbury, Conn.
 Phila. Lawn Mower Co., 3107 Chestnut, Phila., Pa.
 Pleuger & Henger Mfg. Co. ("Cactus", "Japanese", "Park", "National", "Pacific" & "Imperial"), 11th & Hebert, St. Louis, Mo.
 Pullman Mfg. Co., Rochester, N. Y.
 Roberts Mfg. Co., 3011 Chestnut, Phila., Pa.
 Standard Sanitary Mfg. Co. of Michigan, 942 Champlain, Detroit, Mich.
 Standard Stamping Co. (Fountain), Marysville, O.
 Takitezy Lawn Sprinkler Co., Jackson, Mich.
 Walworth Mfg. Co., 132 Federal, Boston
 Westervelt, A. B. & W. T. (The Hub), 102 Chambers, N. Y.
WILCOX MFG. CO. (Lawn Sprayer & Nozzle), Aurora, Ill. (See adv. index, end of book)
 Yost Electric Mfg. Co. ("New Century"), Toledo, Ohio

Lawn Sweepers

Greene Mfg. Co. ("Apollo"), Springfield, O.
 Philadelphia Lawn Mower Co., 3107 Chestnut, Phila., Pa.

*Lead (Antimonial)

LEAVITT, C. W. & CO., 222 B'way, New York. (See adv. index, end of book)

Lead Burning Outfits

Storage Battery Supply Co. (For Storage Batteries, etc.), 239 E 27th, New York

Lead Joint Remover

Smith, A. P. Mfg. Co. ("French"), Newark, N. J.

Lead (Lantern)

Chadwick-Boston Lead Co., Boston, Mass.

Lead (Pig)

(See Lead Pipe, Sheet & Pig Lead Mfrs.)

Lead Pipe Couplings & Fittings

Anderson Coupling Co., Portland, Conn.
 Crane Co. (Est. 1855), 519 S Canal, Chicago, Ill.
 Illinois Malleable Iron Co., 30 W Monroe, Chicago, Ill.

Lead Pipe

(See Lead Pipe, Sheet & Pig Lead Mfrs.)

When writing to firms listed in this book please mention HENDRICKS' COMMERCIAL RECISTER

Lead Pipe Former & Sizer

Vanderman Plumbing & Heating Co., Willman-tic, Conn.

Lead Pipe, Sheet & Pig Lead Mfrs.

American Metal Co., 52 B'way, New York
 American Smelting & Ref. Co., 71 B'way, New York
 Bailey-Farrell Mfg. Co., 3d & Ross, Pittsburgh, Pa.
 Baker Lead Mfg. Co., Worcester, Mass.
 Blatchford, E. W. Co., 70 N. Clinton, Chicago, Ill.
 Bogue Lead Co., 1810 Blake, Denver, Col.
 Brooklyn Metal Works (Inc.), 4th av. & Degraw, Brooklyn, N. Y.
 Bruce & Cook, 190 Water, N. Y.
 Chadwick-Boston Lead Co., 182 Franklin, Boston, Mass.
 Charleston Lead Works, Charleston, S. C.
 Collins, F. F. Mfg. Co., San Antonio, Tex.
 Columbia Smelting & Refining Works, 307 Water, New York
 Colwell Lead Co., 63 Centre, N. Y.
 Crane Co. (Est. 1855), 519 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
 Crane-Hawley Co., Court, Sycamore & Canal, Cincinnati, Ohio
 Davol, John & Sons, 135 William, N. Y. City
 Davis-Boston Metal Works (Inc.), Cambridge, Mass.
 Detroit Lead Pipe & Sheet Lead Works, Detroit, Mich.
 Du Bois, Fred'k N. & Co., 243 9th av, N. Y.
 Fleck Bros. Co., 44 N. 5th, Philadelphia, Pa.
 Frankel, J., 81 Fulton, N. Y. City
 Gerdes, F. W. & Bro., Grand & N South avs, Allegheny, Pa.
 Gibson & Price Co., 375 St. Clair, Cleveland, O.
 Granby Mining & Smelting Co., St. Louis, Mo.; Works, Granby, Mo.
 Great Western Smelting & Refining Co., 175 W. Kinzie, Chicago, Ill.
 Hendricks Bros., 49 Cliff, New York
 Hoyt Metal Co. (Sheet & Pig Lead Mfrs. only), St. Louis, Mo., & Perth Amboy, N. J.
 Lang, E. M. Co., Portland, Me.
 Le Roy Shot & Lead Works, 261 Water, N. Y.
 Lewis, John T. & Bros. Co., 231 S. Front, Phila., Pa.
 Lissberger, Marks & Son, 397 W. 12th, N. Y., & 375 Briggs av, Brooklyn, N. Y.
 Mayor, Lane & Co., 128 White, N. Y.
 Millar, Chas. & Son Co., Utica, N. Y.
 National Lead Co., 100 William, New York.
 Nelson, N. O. Mfg. Co., St. Louis, Mo.
 North American Smelting & Refining Co., 9th & Thompson, Philadelphia, Pa.
 Penn Smelting Co., 331 4th av, Pittsburgh, Pa.
 Phelps, Dodge & Co., 99 John, New York
 Phillips Lead & Supply Co., Providence, R. I.
 Pierce, Butler & Pierce Mfg. Co., Syracuse, N. Y.
 Raymond Lead Co., 57 W Lake, Chicago, Ill.
 Read, H. P. Lead Works, 645 Lexington av, N. Y., & 32 Sanford, Brooklyn, N. Y.
 Robertson, Jas. Mfg. Co., 14 S Hanover, Baltimore, Md.
 Rochester Lead Works, Rochester, N. Y.
 Ronalds & Johnson Co. (Lead Pipe only), 43 Boerum pl, Brooklyn, N. Y.
 Rumsey, L. M. Mfg. Co., 806 N Main, St. Louis, Mo.
 St. Joseph Lead Co., 5 Nassau, N. Y. City
 Sandoval Zinc Co., 122 N. Peoria, Chicago, Ill. Works, Sandoval, Ill.
 Selby Smelting & Lead Co., San Francisco, Cal.
 Standard Sanitary Mfg. Co., Pittsburg, Pa.
 Tatham & Bros., 224 S. 5th, Philadelphia, Pa.
 Tillinghast, L. H. Supply Co., Providence, R. I.
 Trench, C. S. & Co., 81 Fulton, N. Y.
 Trotter, Nathan & Co., 36 N Front, Philadelphia, Pa.
 United Lead Co., 71 B'way, New York
 Vogelstein, L. & Co., 90 Wall, N. Y. City
 Windsor Mfg. Co., Milwaukee, Wis.

***Lead Refining Plants**

ALLIS CHALMERS CO. (Complete Plants), Milwaukee, Wis. (See adv. index & branch offices, end of book)

Lead (Ribbon)

Chadwick-Boston Lead Co., Boston, Mass.

Lead Traps, Bends & Ferrules

Barry Mfg. Co., Muscatine, Ia.
 Blatchford, E. W. Co., 70 N Clinton, Chicago, Ill.

BROOKLYN METAL WORKS

(Dranro, also Combination Bends & Ferrules), Fourth av & Degraw, Brooklyn, N. Y.
 Colwell Lead Co., 63 Centre, New York
 Crane Co. (Est. 1855), 519 S Canal, Chicago, Ill.

Detroit Sanitary Supply Co., 27 Jefferson, Detroit, Mich.

Du Bois, F. N. & Co., 247 9th av, New York
 King Mfg. Co., Watervliet, N. Y.

Le Roy Shot & Lead Works, 261 Water, N. Y.
 Lewis, Jno. T. & Bros. Co., 231 S Front, Phila., Pa.

National Lead Co., 100 William, New York.
 Raymond Lead Co., 51 W Lake, Chicago, Ill.

Robertson, Jas. Mfg. Co., 14 S Hanover, Baltimore, Md.

Ronalds & Johnson Co. (Traps & Bends only), 43 Boerum pl, Brooklyn, N. Y.

Selby Smelting & Lead Co., 416 Montgomery, San Francisco, Cal.

Sportsman's Shot Works (drawn), Court, c Harriet, Cincinnati, O.

United Lead Co., 71 B'way, New York
 Windsor Mfg. Co., 570 Clinton, Milwaukee, Wis.

Lead (Wedge & Monumental)

Chadwick-Boston Lead Co., Boston, Mass.

Leaders (Cattle)

Covert Mfg. Co., West Troy, N. Y.
 Humason & Beckley Mfg. Co., New Britain, Conn.
 Smith, Seymour & Son, Oakville, Conn.

***Leaders (Fair)**

McMILLAN'S, W. H. SONS, 153 South, York. (See adv. index, end of book)

Leadite for Pipe Joints

Leadite Co. of America, 1215 Filbert, Philadelphia, Pa.

Leads (Sounding)

Chadwick-Boston Lead Co., Boston, Mass.
 Wilcox, Crittenden & Co., Middletown, Conn.

Leather (Artificial)

Boston Artificial Leather Co. (Moroccoline), Stamford, Conn., & 256 4th av, New York
 Fabrikoid Co., Newburgh, New York
 Leatherole Co. ("Leatherole"), 24 E 22d, New York
 Pantasote Co., 11 B'way, N. Y.

***Leather Boards**

SPAULDING, J. & SONS CO., North Rochester, N. H. (See adv. index, end of book)

***Leather (Friction)**

BICKFORD & FRANCIS BELTING Co. (For Automobile Clutches), 37 Pearl, Buffalo, N. Y. (See adv. index, end of book)

***Leather (Hydraulic)**

BICKFORD & FRANCIS BELTING Co., 37 Pearl, Buffalo, N. Y. See adv. index, end of book)

Leather (Hydraulic & Valve)

Cowan, Andrew & Co., 435 W Main, Louisville, Ky.
 Ladew, Edw. R. (Est. of), 200 William, New York
 Page Belting Co., Concord, N. H.

Leather Mechanical Goods

Houghton, E. F. & Co. ("Vici"), 240 W. Somerset, Phila., Pa.

Leather (Polishing)

Peckham Mfg. Co., Newark, N. J.

Leather Stuffing Apparatus

Sturtevant, B. F. Co., Hyde Park, Mass.

Leathers (Pump)

Climax Specialty Co., Seneca Falls, N. Y.
 Graton & Knight Mfg. Co., Worcester, Mass.
 Houghton, E. F. & Co. ("Vici"), 240 Somerset, Phila., Pa.
 Leather & Brass Mfg. Co., Auburn, N. Y.
 Mark Mfg. Co., Evanston, Ill.
 Norwich Belt Mfg. Co. (Pump Valve), Norwich, Conn.
 Raymond Mfg. Co. (Ltd.) (Flat & Crimped), Corry, Pa.
 Sherman, H. B. Mfg. Co., Battle Creek, Mich.

Ledgers (Loose Leaf)

(See Loose Leaf Specialties)

Legs (Counter)

National Novelty Corporation (Cast Iron), 826 B'way, New York

Legs (Sink & Wash Tray)

Cheney, S. & Son, Manlius, N. Y.

Legs (Urinal)

(See Urinal Fittings & Trimmings.)

***Lehrs (Glass)**

AMSLER ENGINEERING CO., Diamond Bank bldg., Pittsburg, Pa. (See adv. index & branch offices, end of book)

Lenses (Semaphore)

Sneath Glass Co. (All Colors), Hartford City, Ind.

Lenses (Signal Lamp)

Adams & Westlake Co., Ontario c N Franklin, Chicago, Ill.
 Corning Glass Works, Corning, N. Y.
 Libbey Glass Co., Toledo, O.
 Sneath Glass Co. (All Colors), Hartford City, Ind.

Letter Boxes

(See Boxes, Mail or Letter.)

Letters (Metallic)

(See Numbers & Letters, Metal.)

Letters (Porcelain Sign)

Colonial Sign & Insulator Co. (for Electric Signs), Akron, O.

Letters (Sign, Cast Iron)

Benfield & Milne Mfg. Co., Newark, N. J.
 Brown & Sharpe Mfg. Co. (Up to 5 feet high), Providence, R. I.
 Ziegler Bros. (Removable Metallic), Elgin, Ill.

Letters (Transfer)

Meyercoed Co. (Inc.), Chamber of Commerce bldg, Chicago, Ill.
 Palm Letter Co., 313 Hammond, Cincinnati, O.

Letters (Wood)

Spanjer Bros. (For Signs, etc.), Newark, N. J.

Letters & Figures (Pattern)

Brim, A. W., Seneca Falls, N. Y.
 Butler, A. G. (White Metal for Iron & Brass Castings, also for Machinery, Bridges, Tables, etc.), 284 Pearl, New York
 Everett, A. & Son, Auburn, N. Y.
 Knight, H. W. & Son, Seneca Falls, N. Y.
 Parker, T. M., Hartford, Conn.
 St. Louis Electrotype Foundry, 214 Pine, St. Louis, Mo.
 Shanafelt Mfg. Co., Canton, O.
 Timmis & Clissold, Bound Brook, N. J.

Levels

Athol Machine Co. (Iron Pocket, Plumbers', Machinists', Iron Bench, Carpenters', etc.), Athol, Mass.
 Baker, McMillen Co. ("Akron," "Standard" & "Eclipse," Carpenters' & Masons' Levels), Akron, O.
 Bender, Ph. J. & Sons (Machinists, etc.), 87 Frankfort, New York
 Bostrom-Brady Mfg. Co. ("Bostrom," Builders, & Farm), Atlanta, Ga.

Chapin-Stephens Co. (Adjustable & Non-Adjustable Machinists', Brass Cornered, etc.), Pine Meadow, Conn.
Davis & Cook (Spirit, "Cooks" Pat.), Watertown, N. Y.

DIETZGEN, EUGENE CO., 181 Monroe, Chicago, Ill. (See adv. index and branch offices, end of book)

Disston, Henry & Sons (Inc.) (Iron, Shafting, Pocket, Machinists', etc.), Tacony, Phila., Pa.

Gardam, Wm. & Sons (Architects', Builders', etc.), 47 Rose, N. Y.

Goodell-Pratt Co. (Rocket, Bench, Engineers', etc.), Greenfield, Mass.

Gurley, W. & L. E. (Architects', Engineers', etc.), Troy, N. Y.

Hanna Mfg. Co., 389 River, Troy, N. Y.

Jackson Grade Level Co. (Grade), Jackson, Mich.

Keuffel & Esser Co. (Architects', Engineers', etc.), 127 Fulton, N. Y.

Pfister, Herm. (Architects' & Bldg.), 428 Plum, Cincinnati, O.

Putnam Machine Co. (Iron, Machinists', etc.), Fitchburg, Mass.

QUEEN & CO. (Inc.), (Architects', Engineers', etc.), n. w. cor 8th & Arch, Phila., Pa. (See adv. index, end of book)

Sawyer Tool Mfg. Co. (Cross Adjustable Bench), Fitchburg, Mass.

Smith, E. G. Co. ("Which Way" Pocket), Columbia, Pa.

Smith, S. O. (Box Wood, etc.), Newark, N. J.

SOLTMANN, E. G.

(Architects' & Engineers'; also Everything for the Architect, Engineer & Draughting Room), 125 E 42d, New York. (See adv. index, end of book)

Springfield Level & Tool Co. (Spirit), 54 Taylor, Springfield, Mass.

Stanley Rule & Level Co. (Bit & Square, Iron Pocket, etc.), New Britain, Conn., & 107 Chambers, New York

Starrett, L. S. Co. (Iron, Adjustable Bench, etc.), Athol, Mass.

Stetson, R. O. ("Stratton Bros." Spirit Levels for Carpenters, Machinists & Masons), Greenfield, Mass.

Tower & Lyon Co. (Unique & P. & L.), 95 Chambers, N. Y.

Wright, Frank (Farm), Cave Spring, Ga.

Young & Sons (Engineers', etc.), 47 N 7th, Phila., Pa.

Levels (Hydrostatic)

Webster Mfg. Co. ("Macdonald"), 1075 W 15th, Chicago, Ill., & 38 Dey, New York

Levels (Track)

ANDERSON, W. H. TOOL & SUPPLY Co., 14 Nacomb, Detroit, Mich. (See adv. index, end of book)

Buda Foundry & Mfg. Co. ("McManus Combined Track Gauge, Level, etc.), Railway Exchange bldg, Chicago, Ill. Works: Harvey, Ill.

Chapin-Stephens Co., Pine Meadow, Conn.

FAIRBANKS, MORSE & CO. ("Duplex," "McHenry," etc.), Franklin & Monroe, Chicago, Ill. (See adv. index & branch offices, end of book)

Handlan-Buck Mfg. Co., 212 N 3d, St. Louis, Mo.

Irving Mfg. & Tool Co. (J. F. McCoy Co., Prop.), 159 Chambers, New York

Kalamazoo Railway Supply Co., Kalamazoo, Mich.

Pittsburg Tool & Drop Forge Co., Cheswick, Pa.

Sheffield Car Co. (The McHenry), Three Rivers, Mich.

Verona Tool Works, Verona, Pa., & Pittsburg, Vicksburg Mfg. Co., Vicksburg, Mich. Pa.

Library Shelving & Fittings (Metallic)

American Steel Cabinet Co., New York Life bldg, Chicago, Ill.

Armor Clad Mfg. Co., Canton, O.

Art Metal Construction Co., Jamestown, N. Y.

BERGER MFG. CO., Main Office & Works, Canton, O. (See adv. index and branch offices, end of book)

CANTON ART METAL CO., Canton, O. (See adv. index, end of book)

Federal Steel Fixture Co., 497 W Kinzie, Chicago, Ill.

GENERAL FIRE-PROOFING CO., ("Allsteel"), Youngstown, O., & 156 5th av, New York. (See adv. index & branch offices, end of book)

Hecia Iron Works, 118 N 11th, Brooklyn, N. Y.

Krag Imperial Cabinet Co. ("All Steel"), 816 Chicago, Ill.

Library Bureau, 530 Atlantic av, Boston, Mass.

Olmstrand Metal Furniture Co., Jamestown, N. Y., & 5 & 7 E 42d, New York

SNEAD & CO IRON WORKS ("Green's"), ft of Pine, Jersey City, N. J. (See adv. index, end of book)

Stikeman, Geo. Metal Works ("Stikeman"), 38 Park row, New York

Lids (Journal Box)

DAVIS PRESSED STEEL CO., Wilmington, Del. See adv. index & branch offices, end of book

Kinzer & Jones Mfg. Co., 101 Penn av., Pittsburgh, Pa.

McCord & Co., Old Colony bldg, Chicago, Ill.

Life Boats

(See Life Rafts.)

Life Nets

Woodhouse Mfg. Co., 50 W B'way, New York

Life Preservers

Armstrong Cork Co. ("Acme"), 660 Thomas, Pittsburg, Pa.

Bruening Cork Co. (Cork Block), Oakdale, Pa.

Carley Life Float Co., Produce Exchange Annex, New York

Dreln, Thos. & Sons, Wilmington, Del.

Goodyear Rubber Co., 787 B'way, New York

Hodgman Rubber Co., 806 Broadway, New York

Kahnweiler, David, 2 Dover, New York

Lane & De Groot, Long Island City, N. Y.

National India Rubber Co., Bristol, R. I.

Life Rafts

American Ship Building Co., Cleveland, O.

CARPENTER, GEO. B. & CO., 202 S Water, Chicago, Ill. (See adv. index, end of book)

Detroit Shipbuilding Co. (Brass Dept.), ("Clark's" Metallic), ft of Orleans, Detroit, Mich.

Munn, Thos. C. Co. (Also Life Boats), Wilmington, Del.

Lifters (Stove Lid)

Arcade Mfg. Co. ("Devore," "Zero," "Siberian," "Arcade" & "New Idea"), Freeport, Ill.

Fanner Mfg. Co. ("Arctic," "Chilkoot" Steel Wire Handle), Cleveland, O.

Hunt, Heim, Ferris & Co. ("Star" Wire), Harvard, Ill.

National Novelty Corp'n, 826 B'way, New York

Stover Mfg. Co., Freeport, Ill.

Troy Nickel Works (Jno. E. Gaitley, Prop.), ("Alaska" Nickel Plated), Albany, N. Y.

Wire Goods Co., Worcester, Mass.

Wrightsville Hardware Co., Wrightsville, Pa.

*Lifts (Acid)

BETHLEHEM FOUNDRY & MACHINE Co., Front, South Bethlehem, Pa., & 149 B'way, New York. (See adv. index, end of book)

Lifts (Air)

(See Lifts, Pneumatic; also Pneumatic Pumping Systems)

*Lifts (Ash)

BETHLEHEM FOUNDRY & MACHINE Co. ("Excelsior" for Apartment Houses, etc.), Front, South Bethlehem, Pa. & 149 B'way, New York (See adv. index, end of book)

*Lifts (Book)

BERGER MFG. CO., Main Office & Works, Canton, O. (See adv. index & branch offices, end of book)

Lifts (Hydraulic)

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)

Coffin Valve Co. (For Large Water Gates), Neponset, Boston, Mass.

Lewis Foundry & Machine Co., 1001 Bingham, Pittsburg, Pa.

Wood, R. D. & Co. (Portable), 400 Chestnut, Phila., Pa.

Lifts (Magnetic)

(See Magnets, Lifting)

*Lifts (Motor Armature)

DUFF MFG. CO. ("Barrett's"), 405 Marion av, Allegheny, Pa. (See adv. index, end of book)

Lifts (Motor, Car Pit)

(See also Cranes; also Hoists)

American General Engineering Co. ("A. G. E. Giant"), 253 B'way, New York

Brill, J. G. Co., 63d & Woodland, Phila., Pa.

Dorner Mfg. Co. (Pit Jacks), Monadnock blk, Chicago, Ill.

DUFF MFG. CO. ("Barrett's"), 405 Marion av, Allegheny, Pa. (See adv. index, end of book)

Ohio Brass Co., Mansfield, O.

Patten, Paul B., Salem, Mass.

Van Dorn & Dutton Co., Cleveland, O.

Lifts (Pneumatic)

(See also Pneumatic Pumping Systems)

American Air Compressor Works, 26 Cortlandt, N. Y., & Van Brunt & Summit, Brooklyn, N. Y.

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)

Hudson Engineering & Contracting Co., 92 William, New York

INGERSOLL-RAND CO. ("Pohle" & "Saunders," for Water, & "Moran" & "Moser," for Oil), 11 B'way, New York. (See adv. index & branch offices, end of book)

Leyner, J. Geo. Engineering Works Co., Littleton, Colo.

McKiernan Drill Co., 170 B'way, New York

Miles, Geo. Co., Winsted, Conn.

WHITING FOUNDRY EQUIPMENT Co., Harvey, Ill. (See adv. index & branch offices, end of book)

Lifts (Sewer)

(See Sewer Lifts.)

Lifts (Water)

(See also Motors, Water.)

AMERICAN WELL WORKS ("Chapman's Patent Air Water Lift System"), Aurora, Ill. (See adv. index & branch offices, end of book)

Bishop & Babcock Co. ("Eureka" Automatic), Hamilton & Kirtland, Cleveland, O.

Braender, Philip (Automatic), 63 W 125th, N. Y.

Cleveland Faucet Co. (Automatic), 21 Frankfort, Cleveland, O.

Clow, Jas. B. & Sons ("Clow"), 344 Franklin, Chicago, Ill.

Ideal Specialty Mfg. Co. ("Ideal" for Country & City Homes), 527 Liberty, Pittsburg, Pa.

INGERSOLL-RAND CO. (Air, "Pohle" & "Saunders"), 11 B'way, New York. (See adv. index & branch offices, end of book)

Monarch Mfg. Co. ("Monarch"), Columbus, O.

Noppel Pump Co., Hartford, Conn.

Ohio Pump & Brass Co. (Improved "Triumph" Hydraulic), 18th & Oak, Columbus, O.

ORGAN POWER CO. ("Century," for Tank or Direct Pressure), Hartford, Conn. (See adv. index, end of book)

Light House Builders

Bartlett, Hayward & Co., Baltimore, Md.

RUSSEL WHEEL & FOUNDRY CO., Detroit, Mich. (See adv. index, end of book)

Lighting Systems

Engineering of Light & Illumination Co. (All Forms of Light), 25 Broad, New York

Lightning Arresters

(See Arresters, Lightning)

***Lightning Conductors**

NATIONAL CABLE & MFG. CO. ("National"), Niles, Mich., & 116 Lake, Chicago, Ill. (See adv. index, end of book)

Lightning Indicator

Bajohr, Carl Lightning Rod Works, 4051 Keokuk, St. Louis, Mo.

Lighting (Prism System)

(See Glass, Prismatic)

Lightning Rod Testing Apparatus

St. Louis Electric Lightning Rod Constructors, Meramec av, St. Louis, Mo.

Lightning Rods

Ajax Conductor & Mfg. Co., 269-271 S. Desplaines, Chicago, Ill.

Bacon & Co., 1133 Prospect, Cleveland, O.

Bajohr, Carl, 4051 Keokuk, St. Louis, Mo.

Baltimore City Lightning Rod Works, Baltimore, Md.

Boston Lightning Rod Co., 28 Beach, Boston, Mass.

Buck, W., 1728 Ridge av, Philadelphia, Pa.

Cole Bros. & Johnson, Sherman, Tex.

Condon, W. H., 337 E st, Boston, Mass.

Dodd & Struthers, Des Moines, Ia.

Doughty, J. H., Greeneville, Tenn.

Foy, Edw. A. & Co., 409 E 8th, Cincinnati, O.

Goodwin, Fredk. O., 53d & Wyalusing, Phila., Pa.

Gorman, M. J., 640 Main, Cincinnati, O.

Heinis, Wm. G., 1347 Ridge av, Phila., Pa.

Hum & Leatherman, 103 Market, Pittsburgh, Pa.

HUNGERFORD, U. T. BRASS & COPPER CO. (Copper), 497 Pearl, New York

Jackson & Cook, 318 Market, Phila., Pa.

Johnson, Chas., 52 John, N. Y.

Jones, T. W., 22 Burling sl, New York

Keyes Bros., Lewiston, Me.

Kriechbaum, Geo., Burlington, Ia.

Kuehling, J. H. Co., 502 12th, N. W., Washington, D. C.

Lyon, C. R. & Son, 13 N 13th, Newark, N. J.

Manhattan Brass Co., 338 E 28th, N. Y.

NATIONAL CABLE & MFG. CO. (Pure Copper Cable), Niles, Mich. (See adv. index & branch offices, end of book)

Reyburn, Hunter & Co., 488 N American, Phila., Pa., & 99 W Adams, Chicago, Ill.

Sadler, D. M. & Co., 907 N Arlington av, Baltimore, Md.

St. Louis Lightning Rod Co., 1901 S 3d, St. Louis, Mo.

Schneider, Wm., 3118-A Nebraska av, St. Louis, Mo.

Shute, E. M., 1003 Myrtle av, Brooklyn, N. Y.

Smith, J. W., Galesburg, Ill.

Southern Lightning Rod Co., 819 Iberville, New Orleans, La.

Struthers, Reuben F., Peoria, Ill.

Washburne, Edw. G. & Co. (Copper), 46 Cortlandt, N. Y.

Westervelt, A. B. & W. T., 102 Chambers, New York

***Lightning Rods (Copper Cable)**

NATIONAL CABLE & MFG. CO. ("National"), Niles, Mich. (See adv. index & branch offices, end of book)

Ligni-Salvor (Wood Preserve)

Menzel, Wm. & Son, 68 Broad, N. Y.

Lignum Vitae Turnings

Sandusky Tool Co., Sandusky, O.

Seib Bros., Jersey City, N. J.

Lime (Caustic)

American Lime & Stone Co., Tyrone, Pa.

Lime (Ground & Crushed)

American Lime & Stone Co. (Also Ground Limestone), Tyrone, Pa.

Buckeye Lime Co., Genoa, O.; Fostoria, O., & Limestone, O.

California Portland Cement Co., Los Angeles, Cal. Works, Colton, Cal.

Frederick Lime & Stone Co., Frederick, Md.

Ohio & Western Lime Co., Toledo, O., & Huntington, Ind.

Scioto Lime & Stone Co., Delaware, O.

Standard Lime Co., Gibsonville, O., & Pittsburgh, Pa.

Toledo White Lime Co., Toledo, O.

Western Lime Co., Huntington, Ind.

Woodville White Lime Co., Toledo, O.

Lime (Hydrated)

A. & C. Stone & Lime Co. (Portland White Lime), Indianapolis, Ind.

Chickamauga Cement Co. (Hydrated Portland Lime), Chattanooga, Tenn.

Cleveland Builders' Supply Co., Cleveland, O.

Frederick Lime & Stone Co., Frederick, Md.

Kelley Island Lime & Transport Co., Cleveland, O.

Ohio & Western Lime Co., Toledo, O., & Huntington, Ind.

Scioto Lime & Stone Co., Delaware, O.

Western Lime Co., Huntington, Ind.

Woodville White Lime Co., Toledo, O.

Lime (Hydraulic)

Fowler & Pay ("Brown"), Mankato, Minn.

Ladd Lime Co., Cartersville, Ga.

Menominee Brick Co., Menominee, Mich.

NON-STAINING CEMENT CO., 156 5th av, New York. (See adv. index, end of book)

Lime (Magnesian White)

Lee Lime Co. (For Sulphite & Rag Paper Mills, Hard Plaster, Scratch & Brown Coat, etc.), Lee, Mass.

Lime Mfrs.

(For Lime Dealers see Masons' & Builders' Materials)

ALABAMA.

ANNISTON—Anniston Lime & Stone Co.

Lagarde Lime & Stone Co.

Woodstock Iron Works

CALCIS—Chewacla Lime Co.

CALERA—O'Neal, C. L.

FORT PAYNE—Standard Lime Co.

LONG VIEW—Adams, J. B.

ARKANSAS.

FAYETTEVILLE—Ozark White Lime Co.

ROGERS—Rogers White Lime Co.

CALIFORNIA.

LOS ANGELES—Los Angeles Lime Co.

Oro Grande Lime & Stone Co.

Union Lime Co.

SAN FRANCISCO—Cowell, Hy. Lime & Cement Co., 15 East

Holmes Lime Co., Mutual Sav. B'k bldg

Patent Brick Co., 331 Berry

COLORADO.

DENVER—Barrows, G. A. Lime Co., 1570 14th

Colorado Lime & Fluxing Co., McPhee bldg

CONNECTICUT.

CANAAN—New England Lime Co.

EAST CANAAN—Canfield Lime Co.

DELAWARE.

WILMINGTON—Keystone Lime Co.

McCoy Lime Co.

Warner, Chas. Co.

Whiteland Lime Co.

DISTRICT OF COLUMBIA.

WASHINGTON—Knott & Moler, 28th c K, N W

GEORGIA.

ATLANTA—Sciple Sons, 8 Central av

GAINESVILLE—Deal, C. L.

GRAYSVILLE—Church, M. M.

Hale, W. F.

SAVANNAH—Hanley, Andw. Co.

ILLINOIS.

ALTON—Armstrong, Jno. Lime & Quarry Co.

CHICAGO—Artesian Stone & Lime Works, Grand & Campbell avs

Brownell Improvement Co., Cham. of Com. bldg

Chicago Lime Co., 138 Wash

Chicago Union Lime Works Co., W 19th c S Lincoln

Druecker, N. J. & Co., 847 Clybourn av

Marble Head Lime Co., Masonic Temple

Schultz, Fred'k., 658 S Halsted

Stearns Lime & Stone Co., 165 E Randolph

Templeton Lime Co., Harvard c Rockwell

Wisconsin Lime & Cement Co., Chamber of Commerce bldg

FREEMONT—Grant, Mrs. Jennie

FULTON—Alden Lime Co.

LYONS—Schultz, Fred.

PORT BYRON—Port Byron Lime Association

QUINCY—Menke, F. W. Stone & Lime Co.

Meyer, W. D. (Marble White)

Quincy White Lime & Cement Co.

ROCKFORD—Hart & Page

INDIANA.

DELPHI—Coble Lime Co.

Delphi Lime Co.

Harley Bros.

EVANSVILLE—Eichel Lime & Stone Co.

FORT WAYNE—Moellering's, Wm. Sons, 53 Murray

GREENCASTLE—Oakalla Stone & Lime Co.

HUNTINGTON—Western Lime Co. (White)

INDIANAPOLIS—A. & C. Stone & Lime Co.

Keepport, A. B. & Co. (Kilns), Putnamville, Ind.

MITCHELL—Mitchell Lime Co. (White)

IOWA.

DES MOINES—Des Moines Fuel & Lime Co.

MASON CITY—Mason City Lime & Cement Co.

MONMOUTH—Stuart, L. B.

VIOLA—Iowa Lime Co.

KENTUCKY.

GLASGOW—Dickinson Bros.

HENDERSON—Blackwell, P. A. & Co.

LOUISVILLE—Union Cement & Lime Co., 421 W Main

Utica Lime Co., 421 W Main

MOUNT VERNON—Kruger & Sons

Sparks, W. J.

MAINE.

ROCKLAND—Bird, A. J. & Co.

Gay, A. C. & Co.

Rockland-Rockport Lime Co.

THOMASTON—Creighton, Jas. A. & Co.

MARYLAND.

BALTIMORE—Gegner, Geo. A., Eastern av c

Green, Robt. S., 853 Fkd av, Ext. Clinton

Maryland Lime & Cement Co., Carroll bldg

National Building Supply Co., 418 East Pratt

Platt & Co. (Shell), ft Clement

Standard Lime & Stone Co., Equitable bldg

Washington Building Lime Co., Equitable bldg

BUCKEYSTOWN—Standard Lime & Stone Co.

Washington Bldg Lime Co.

FREDERICK—Frederick Lime & Stone Co.

TEXAS—Ditman, W. C.

Lindsay, William P.

MASSACHUSETTS.

ADAMS—Hoosick Valley Lime & Marble Co.

New England Lime Co.

BOSTON—Carter, Thos. W., 30 Kilby

FISKE & COMPANY (Inc.) (Jobbers), 161 Devonshire. (See adv. index, end of book)

Rockland-Rockport Lime Co., 24 Milk

CHESHIRE—Cheshire Lime Mfg. Co.

Farnum Cheshire Lime Co. (Cheshire Finishing Lime)

LEE—Lee Lime Co. (Magnesia White Lime)

Over 40% of Fire Losses are Caused by Lightning.

ABSOLUTELY PREVENTED BY NATIONAL PURE COPPER CABLE LIGHTNING RODS.



There has been a revolution in the matter of lightning rods in the past ten years. The National Lightning Rod, which is scientifically constructed and applied, absolutely prevents all loss by lightning.

The following specifications have been approved and accepted by the U. S. Government for powder magazines and government monuments :

30-wire, soft copper cable, the copper 98% pure.

Pure copper points on all gables and projections, and at intervals of 20 feet along horizontal ridge-poles.

Pure copper couplings.

Cable attached to building by metal fasteners (no insulation permitted).

At least two connections with the ground.

Ground connections to run to permanent moisture, from eight to fourteen feet below the surface.

No loss by lightning has ever been known on a building carefully rodded by a static electric expert, according to these specifications. It has been proved by insurance records running over many years that much over 40% of the fire losses are due to lightning—a loss that would be absolutely saved by National Pure Copper Cable Rods.

National Pure Copper Cable Lightning Rods

Are constructed in exact accordance with government specifications, and are put in place by our own experts.

Where others use hard-drawn wires, or copper coated iron, we use soft copper 98% pure—the finest made—and stand ready to refer all inquiries to the nationally famous concern that supplies the copper we use.

Where others use brass couplings, we use only pure copper.

Where others run their rods only a few feet into the ground, our experts see that all rods run to permanent moisture, even if it is fourteen feet under the surface.

National Board of Underwriters Approves National Copper Cable Lightning Rods.

H. DAVIS IVES, Architect.

160 Fifth Avenue, New York City, April 1, 1907.

National Cable & Manufacturing Co., Niles, Michigan.

Gentlemen: Will you kindly send me the address of your New York representative, as I wish to see him in regard to lightning rods.

The National Board of Underwriters referred me to you.

Yours truly,

H. DAVIS IVES.

Booklet "The Laws of Lightning," and catalogue of National Cable and Fixtures, illustrated in colors, mailed free.

NATIONAL CABLE & MANUFACTURING CO.

801 to 815 8th Street, NILES, MICH.

Chicago Office

-

-

116 Lake Street



LABOR SAVING APPLIANCES, TOOLS^{and} SUPPLIES

We have the best facilities in this country for furnishing to our subscribers, free of charge, the names and addresses of the leading manufacturers of the latest improved machinery, tools and appliances etc., for working and handling all kinds of metal, wood, stone, slate, earth, minerals, etc., such as :

Air, Gas and Gasoline Compressors
Cranes for all purposes
Pneumatic Tools and Appliances
Derricks, Hand or Power
Hoists, Hand or Power
Elevators, Electric, Hydraulic, etc.
Excavators and Dredges
Conveyors for all kinds of materials
Castings of all kinds
Steam Shovels
Machine or Hand Tools
Machinery for all Purposes
Engines for all Purposes
Electric Generators and Motors
Drills for all Purposes
Power Transmission
Agricultural Implements
Locomotives, Cars, etc.
Tools of Every Description.

Complete equipment for Railroad, Machine Shop, Foundry, Mine, Quarry Mill, Factory, Electric and Gas Lighting, etc., in fact everything wanted for manufacturing plants or to carry out economically large contracts.

S. E. HENDRICKS CO.,
74 Lafayette St., NEW YORK



MICHIGAN.

ALPENA—Collins, Richard
 BAY PORT—Wallace Stone & Lime Co.
 DETROIT—Houghten, Henry, 806 Hammond bldg
 Little, C. H. Co., Peninsular Bank bldg
 MANISTIQUE—White Marble Lime Co.
 MENOMINEE—Lyon Bros.
 PETOSKEY—Petoskey Stone & Lime Co.
 SAGINAW—Remer Bros., 300 Madison

MINNESOTA.

MANKATO—Fowler & Pay ("Brown" Hydraulic)
 Mankato Lime, Stone & Fuel Co.
 ST. PAUL—Northwestern Lime Co., 71 Lower Levee
 Shakopee Cement & Lime Mfg. Co., 220 Chestnut
 SHAKOPEE—Shakopee Cement & Lime Mfg. Co.
 WINONA—Willis, H. J.

MISSOURI.

BOONVILLE—Lobse & Miller
 CAPE GIRARDEAU—Cape City Lime Co.
 CARTHAGE—Carthage Marble & White Lime Co.
 CENTAUR—Centaur Lime Co.
 HANNIBAL—Empire Lime Co.
 Hannibal Lime Co.
 Star Lime Co.
 KANSAS CITY—Ash Grove White Lime Ass'n., Postal Telegraph bldg
 Brockett, C. A. Cement Co., 121 W. 8th
 Missouri Lime & Cement Co., 201 Postal Telegraph Co.
 Phoenix Stone & Lime Co., 19th & Olive
 LOUISIANA—Crystal Carbonate Lime Co.
 Marblehead Lime Co.
 PEIRCE CITY—Peirce City Lime Co. (White)
 ST. LOUIS—Carthage Marble & White Lime Co., Chouteau & Vandeventer ays
 Glencoe Lime & Cement Co., 1400-A Old Manchester rd
 Goetz, C. W. Lime & Cement Co., 3527 Gratiot
 Hunkins-Willis Lime & Cement Co., 18th & Austin
 SPRINGFIELD—Marblehead Lime Co.

NEW JERSEY.

CAMDEN—Camden Lime Co.
 HAMBURG—New Jersey Lime Co.
 Windsor Lime Co.
 McAfee Valley—New Jersey Lime Co.
 NEWARK—Newark Lime & Cement Mfg. Co., ft Bridge
 Phillips White Rock Lime Co., 125 Front
 PEAPACK—Todd, Phillip
 TRENTON—Richardson, J. B. & Son

NEW YORK.

BIGFLOW—Williams, Chas. & Co. (Mostly In Bulk)
 BINGHAMTON—Ballard, J. W. Co. (Bulk)
 BROOKLYN—(See New York City, Borough of Brooklyn)
 BUFFALO—Carroll Bros., 388 Ellicott sq
 Reeb, M. A., 599 Mich
 Ross, Jas. H., 141 Erie
 CALEDONIA—Caledonia Marl & Lime Co.
 CHAUMONT—Adams & Duford Co. ("Chaumont" White Lime in Bulk & Barrel)
 CHAZY—Chazy Marble Lime Co.
 CAYETTEVILLE—Bangs-Gaynor Cement & Plaster Co. (Water, Lime or Cement)
 Sheedy, Thos. W. (Water Lime or Cement)
 CLENS FALLS—Finch, Prun & Co.
 KINGSTON—Gill, David, Jr., 220 E Strand
 Newark Lime & Cement Mfg. Co.
 Missouri Lime & Cement Co., 201 Postal Telegraph Co.
 NEWBURGH—Harrison, Jno. J. E., 490 B'way

NEW YORK CITY.**Borough of Brooklyn.**

ROOKLYN—Rockland-Rockport Lime Co., Newtown Creek & Morgan av

Boroughs of Manhattan & Bronx

NEW YORK—Bloomer & Co., 290 Front
 Finch, Prun & Co., 140 W 42d
FISKE & CO. (Inc.) (Jobbers)
 Flat Iron bldg. (See adv. index, end of book)
 Keenan Lime Co., 74 Cortlandt
 N. Y. Lime Co., 290 Front
 Palmer Lime & Cement Co. ("Cheshire" "Belleville" "Palmer" "Yorktown Heights" "Connecticut White" "Hardsell" "Hoosac Valley"), 149 B'way
 Reardon, Dennis, 74 Cortlandt
 Rockland-Rockport Lime Co., 949 B'way
(END OF NEW YORK CITY)
 ROCHESTER—Rochester Lime Co., 309 W Main
 SODUS CENTRE—Matber, E. B.
 SYRACUSE—Britton, Israel B., 201 W Onon
 UTICA—Conley, F. D. Stone Co.

OHIO.

BUCYRUS—Broken Sword Stone Co.
 CEDARVILLE—Ervin, D. S. Co. (Large)
 CLEVELAND—James, Ralph T., 1225 Euclid av
 Kelley Island Lime & Transport Co., Mercantile Bank bldg
 COLD SPRINGS—Strunk-Meyer Lime Co.
 COLUMBUS—Columbus Macadam Co., McKinley av
 DELAWARE—Scioto Lime & Stone Co.
 GIBSONBURG—Zorn, Hornung Co.
 GREENFIELD—Rucker Stone Co.
 LUCKEY—Doherty & Co.
 Luckey Hydrated Lime Co.
 MARION—Central Ohio Lime & Stone Co.
 Evans, John Lime & Stone Co.
 Norris & Christian Lime & Stone Co.
 PATTERSON—Herzog, Jno. & Son
 PIQUA—Ohio Marble Co.
 REX—Brubaker, J. E.
 SPRINGFIELD—Mills Bros., 107 S Limestone
 Moores Lime Co., Linden av & Wash'n
 TOLEDO—Doherty & Co., ft of Washington
 Ohio & Western Lime Co.
 Woodville White Lime Co.

OREGON.

LIME—Oregon Lime & Plaster Co.
 PORTLAND—McCracken, J. Co., 231 Pine
 Nottingham & Co., ft Wash'n
 Oregon Lime & Plaster Co., ft 14th

PENNSYLVANIA.

BELLEfonte—Bellefonte Lime Co.
 BRIDGEPORT—McCoy Lime Co.
 CARLISLE—Goodyear Bros.
 DEVAULT—Cedar Hollow Lime Co.
 EASTON—Easton Lime Co.
 FRANKSTOWN—American Lime & Stone Co.
 FRAZER—Knickerbocker Lime Co.
 HARRISBURG—Walton Quarries ("Building & Patent Process Fertilizer")
 LANCASTER—Belmont Lime Kilns
 Keller, John (Est. of)
 MORGANTOWN—Binder, Dallas
 NEW CASTLE—Croton Limestone & Brick Co.
 NORRISTOWN—Richardson & Ross
 PHILADELPHIA—Cox's, C. A. Sons, 2137 N American

FRENCH, SAM'L H. & CO., 4th & Callowbill. (See adv. index, end of book)
 Knickerbocker Lime Co. (Inc.), 366 N 24th
 Lukens & Yerkes, Commonwealth bldg
 Lyster Supply Co., 30th and Locust
 Warner, Chas. Co. (Cedar Hollow, Wrightville & Potomac Lime Stone), Land Title bldg
 PITTSBURG—Houston Bros. Co., 32d & P. R. R.
 PLYMOUTH MEETING—Corson, G. & W. H.
 Cox Lime & Crushed Stone Co.
 PORT KENNEDY—Todd & Son
 READING—Reading Lime Co.
 SCRANTON—Haslam Lime Co.
 Kellar, Luther
 Paragon Plaster & Supply Co.
 SHENANDOAH—Roberts, Sam'l G.
 TYRONE—American Lime & Stone Co.
 WAMPUM—Wampum Lime Co.
 WAYNESBORO—Decarbonated Lime & Stone
 WRIGHTSVILLE—Steacey & Wilton Co. Co.
 YORK—York Valley Lime Co.
 YORK SPRINGS—Trostell, Geo. H.

RHODE ISLAND.

LIMEROCK—Harris, Herbert

SOUTH CAROLINA.

GAFFNEY—Carroll & Co.

SOUTH DAKOTA.

PRINGLE—Black Hills Lime Co.

TENNESSEE.

BURNS—Allen, Jesse & Co.
 CHATTANOOGA—Gager Lime & Mfg. Co.
 KNOXVILLE—Kinzel Lime Co.
 Knoxville Lime Co.
 Tennessee Lime & Sand Co.
 MEMPHIS—Denie's, Jno. A. Sons (Ala. Ark., & Tenn. Lime)
 Wright Lime & Cement Co.
 NASHVILLE—Hardison, W. T. & Co., 115 S Front
 SPRING CITY—American Lime Works
 SHERWOOD—Gager Lime & Mfg. Co.

TEXAS.

AUSTIN—Austin White Lime Co.
 EL PASO—El Paso Ice & Refrigerator Co.
 FORT WORTH—Fort Worth Lime Works
 ROUND ROCK—Walsb, Wm. & Co.

UTAH.

SALT LAKE CITY—Langton Lime & Cement Co.

VERMONT.

IRA—Day, Dexter D.
 LEICESTER JUNCTION—Brandon Lime & Swinington, J. C. & J. A. Marble Co.
 NORTH POWNAL—New England Lime Co.
 SAINT ALBANS—Fonda, W. B.
 SWANTON JUNCTION—Rich, Jno. P.

VIRGINIA.

RICHMOND—Lea, A. S. & Sons Co.
 Moore Lime Co., 17th & Dock
 Richmond Phosphate Co.
 RIVERTON—Riverton Lime Co.
 STEPHENS CITY—Grove, M. J. Lime Co.

WASHINGTON.

DEER HARBOR—Imperial Lime Co.
 Orcas Lime Co.
 FRIDAY HARBOR—Cowell, Hy. Lime & Cement Co.
 Roche Harbor Lime Co.
 ROCHE HARBOR—Tacoma & Roche Harbor Lime Co.
 SPOKANE—Idaho Lime Co.
 Washington Brick, Lime & Mfg. Co.
 TACOMA—Tacoma & Roche Harbor Lime Co.

WEST VIRGINIA.

BAKERTON—Washington Building Lime Co.
 MARTINSBURG—Standard Lime & Stone Co.

WISCONSIN.

APPLETON—Marston Bros.
 FOND DU LAC—Standard Lime & Stone Co.
 GRAFTON—Anschuetz & Co.
 Milwaukee Falls Lime Co.
 HAMILTON—Sylvester, Seth
 MAYVILLE—Mayville White Lime Works
 MENASHA—Plummer, H. H.
 MARBLEHEAD—Nast Bros. Lime & Stone Co.
 MILWAUKEE—Empire Lime & Stone Co.
 Milwaukee Falls Lime Co., Humboldt av c Commerce
 Western Lime & Cement Co., Pabst bldg
 NEW LONDON—New London Stone & Lime Co.
 OSHKOSH—Cook & Brown Lime Co.
 Kuschbe, E.
 QUARRY—Empire Lime & Stone Co.
 RACINE—Horlick Lime & Stone Co.
 ROCKFIELD—Mace Lime Co.
 SHERBOYGAN—Sheboygan Lime Works
 STURGEON BAY—Falk John
 TEMPLETON—Templeton Lime & Stone Co.
 WATERTOWN—Racek & Maldaner
 WEST SUPERIOR—Superior Mfg. Co.

Lime Packers

(See Cement Packers)

***Limestone (French)**

BOCKMAN, A. E., 1265-9 B'way,
 New York. (See adv. index, end of book)

Limestone (Powdered)

Doggett, Stanley, 101 Beekman, New York
Moline Stone Co. (Ground Limestone), Moline, Ill.
Osborn, Clarence J. Co., "Broker", 284 Pearl, New York

Lincrusta Walton Mfrs.

Beck, Fr. & Co., 206 W 29th, New York

Linemens' Climbers

(See Climbers, Lineman's.)

Lining & Tamping Bar

(See Bars, Lining and Tamping.)

Linings (Blast Furnace)

Haws, A. J. & Sons (Ltd.), Johnstown, Pa.

Link Belting

(See Belting, Link & Chain.)

Links (Connecting)

Brewer Bros. (Wrought Open), 614 Filbert, Phila., Pa.
Keystone Drop Forge Works ("Keystone" Open Link), Chester, Pa.
Laughlin, Thos. Co., Portland, Me.
Marine Hardware & Equipment Co. ("Acme" Drop Forged), South Portland, Me.
Wilcox, Crittenden & Co. (Drop Forged), Middletown, Conn.

Links for Conveyor Chains

Scranton Forging Co., Scranton, Pa.

Links (Fusible)

Lanz, M. & Sons, Carson & 29th, Pittsburg, Pa.
RICHARDS MFG. CO., Aurora, Ill.
(See adv. index & branch offices, end of book)

Links (Split)

Plume & Atwood Mfg. Co., Waterbury, Conn.
Smith & Egge Mfg. Co., Bridgeport, Conn.

Links & Pins (Coupling)

Carnegie Steel Co., Pittsburg, Pa.
Cleveland City Forge & Iron Co., 67 Case av, Cleveland, O.
Harris, Wm. & Son, Allegheny, Pa.
Helmbacher Forge & Rolling Mills Co., c Barton & DeKalb, St. Louis, Mo.
Keystone Drop Forge Co., Chester, Pa.
Logan Iron & Steel Co., Burnham, Pa., & Harrison bldg, Phila., Pa.
New Castle Forge & Bolt Co., New Castle, Pa.
Pittsburg Forge & Iron Co., 1003 Penna. av, Pittsburg, Pa.
Tredegar Co., Richmond, Va.
Wilcox, D. Mfg. Co., Mechanicsburg, Pa.

Linoleum Mfrs.

American Linoleum Mfg. Co., 11 Thomas, New York, & Linoleumville, Borough of Richmond, N. Y. City
Beuttell, Henry & Son ("Greenwich," Inland, etc.), 133 5th av New York
Blahon, Geo. W. Co., 34 N 5th, Phila., Pa.
Chicago Linoleum Co., Chicago, Ill.
Farr & Bailey Mfg. Co., Camden, N. J.
Germania Importing Co. ("Anchor," Inland, Imported), 127 Duane, New York City
Judson, P. O. & Co. ("Rixdorfer" Parquet, Inland, etc.), 16 E 17th, New York
Keveney, T. J. & Co. ("Key" Brand, Inland, Imported), 907 B'way, New York
Nalrn Linoleum Co., Kearny, N. J.
National Linoleum Co., Trenton, N. J.
Potter, Thos. Sons & Co. (Inc.), 522 Arch, Phila., Pa., & 41 Union sq, New York
Powers, Deborah & Sons (Also Oil Cloth), Troy, N. Y.
Trenton Oil Cloth & Linoleum Co. ("Cook's"), Trenton, N. J.
Western Linoleum Co., Akron, O.
Wilcombe, McGeachlin & Co. ("Stainers," Inland), 874 B'way, New York, N. Y.

Linseed Oil & Cake Mills

(Marked with a (*) are Independent Mills)

CALIFORNIA.

BERKELEY—El Dorado Oil Works Co. (D. B.)
SAN FRANCISCO—*Pacific Oil & Lead Works, 155 Townsend

ILLINOIS.

CHICAGO—American Linseed Co., Old Colony Bldg.
*Chicago White Lead & Oil Co., N Green & Fulton
*Crescent Linseed Oil Works, 56 W Division
Euston & Co., Blackhawk & Hawthorne av.
Grace Varnish Co., 125 Larrabee
*National Lead Co., 1510 State

INDIANA.

INDIANAPOLIS—Evans Linseed Oil Works

KANSAS.

TOPEKA—Topeka Linseed Oil Works

MICHIGAN.

DETROIT—American Linseed Co., Leib c Wight
*National Lead Co., 81 Woodbridge

MINNESOTA.

MINNEAPOLIS—American Linseed Co. Main
Midland Linseed Co. Office, N. Y. City
Minnesota Linseed Oil Co.
*Northern Linseed Oil Co.
RED WING—Red Wing Linseed Mills
ST. PAUL—American Linseed Co. Main Of-
fice, N. Y. City

MISSOURI.

KANSAS CITY—American Linseed Co. Main
Office, N. Y. City
*National Lead Co., 10th & Clark av
ST. LOUIS—American Linseed Co. Main Of-
fice, N. Y. City
*Brown, R. B. Oil Co., Rialto bldg
*Mound City Paint & Color Co., 811 N 6th

NEBRASKA.

OMAHA—American Linseed Co. Main Office,
*National Lead Co. N. Y. City

NEW YORK.

AMSTERDAM—Kellogg & Miller
BUFFALO—American Linseed Co., W Ganson
*Hauenstein & Co., 37 Vincennes.
*Kellogg, Spencer Co., Ganson c Michigan
*Mann Bros. Co., 340 Ohio
*National Lead Co., c Clinton & Oak
NEW YORK—American Linseed Co., 100 William
*National Lead Co., 100 William

OHIO.

CINCINNATI—Burckhardt & Co., 323 Sycamore
Moore, Chas. H. Oil Co., York & McLean av.
*National Lead Co., 7th & Freeman av
CLEVELAND—Atlas Oil Co., Rose Bldg.
Harshaw, Fuller & Goodwin Co., Electric bldg
*National Lead Co., 637 Champlain av., N.W.
DAYTON—*Pope, H. L. & Co.
MANSFIELD—Mansfield Linseed Oil Co.
TOLEDO—Metzger Seed & Oil Co.
Toledo Linseed Oil Works

OREGON.

PORTLAND—Portland Linseed Oil Works

PENNSYLVANIA.

FRANKLIN—*Riesemann Mfg. Co., Ltd.
PENNRSBURG—*Hillegass & Krauss
PHILADELPHIA—Grove Linseed Oil Co., Delaware av. & Bigley
*Lewis, John T. & Bros. Co., 231 S. Front
PITTSBURG—*National Lead & Oil Co. of Penna. (Raw, Boiled & Refined), 202 9th

WISCONSIN.

MILWAUKEE—*Goodrich, Wm. & Co., 198 Barclay

Liquids (Fireproofing)

Blenio Fireproofing Co., 545 W 22d, New York

***Lixiviation Plants**

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

Loaders (Box Car)

Christy Box Car Loader Co. ("Christy"), Des Moines, Ia.
Duncan Foundry & Machine Works ("Smith" Gravity), Alton, Ill.
Ellison, Wm. & Sons Mfg. Co., 1020 N. 6th, St. Louis, Mo.
Fairmount Mining Machinery Co. ("Fairmount" Rotary), Fairmount, W. Va.
Litchfield Foundry & Machine Co., Litchfield, Ill.
Ottumwa Box Car Loader Co., Ottumwa, Ia.

Loaders (Grain Car)

Great Western Mfg. Co., Leavenworth, Kan.
Ideal Car Loader Co., Allenville, Ill.
Marseilles Mfg. Co. (Hay), Marseilles, Ill.
Morroa Mfg. Co. (The "Boss"), Morroa, Ill.
Pease, E. H. Mfg. Co., Racine, Wis.
Webster Mfg. Co., 1075 W 15th, Chicago, Ill.

Loaders (Hay)

Chambers-Bering-Quintan Co., Decatur, Ill.
Deere & Mansur Co., Moline, Ill.
Hocking Valley Mfg. Co., Lancaster, O.
International Harvester Co. of America, 7 Monroe, Chicago, Ill., & Auburn, N. Y.
Marseilles Mfg. Co. (Grain Car), Marseilles, Ill.
Ohio Rake Co., Dayton, O.
Parlin & Orendorff Co., Canton, Ill.
Porter, J. E. Co., Ottawa, Ill.
Rock Island Plow Co., Rock Island, Ill.
Sandwich Mfg. Co. (Clean Sweep), Sandwich, Ill.
Sterling Mfg. Co., Sterling, Ill.
Thomas Mfg. Co. (Harrows & Pulverizers, Spike Tooth), Springfield, O.

Loaders (Log)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)
AMERICAN HOIST & DERRICK CO. ("American"), St. Paul, Minn. (See adv. index & branch offices, end of book)
BYERS, JOHN F. MACHINE CO., Ravenna, O. (See adv. index, end of hook)
Chattanooga Machine Co., Chattanooga, Tenn.
Clyde Iron Works ("McGiffert"), Duluth, Minn.
Hill, Wm. E. & Co., Kalamazoo, Mich.
Kilgore Peteler Co. (Direct Acting Steam), Minneapolis, Minn.
LANE MFG. CO. (Steam, also Unloaders & Stops), Montpelier, Vt. (See adv. index, end of book)
LIDGERWOOD MFG. CO. (Steam), 96 Liberty, New York, & Old Colony Bldg., Chicago, Ill. (See adv. index & branch offices, end of hook)
MONIGHAN'S MACHINE WORKS (Steam), 813 Carroll av, Chicago, Ill. (See adv. index, end of book)
Phenix Mfg. Co. "Klines" Eau Claire, Wis.
Pond-Decker Mfg. Co., Newport, Ark.
Ramming, John Machine Co., 300 S. Main, St. Louis, Mo.
Roots, P. H. & F. M. Co. (Steam), Connersville, Ind.
RUSSEL WHEEL & FOUNDRY CO., Detroit, Mich. (See adv. index, end of book)
Soule Steam Feed Works, Meridian, Miss.
Wickes Bros. (Steam), Saginaw, Mich.

Loaders (Rail)

United Supply & Mfg. Co. ("American," for Handling Steel Rails), Railway Exchange, Chicago, Ill.

When writing to firms listed in this book please mention HENDRICKS' COMMERCIAL REGISTER

Loaders (Wagon)

Austin Mfg. Co. ("New Era"), Harvey, Ill.,
& 315 Dearborn, Chicago, Ill.
Indiana Road Machine Co., Ft. Wayne, Ind.
Western Wheeled Scraper Co., Aurora, Ill.

Lock Mfrs.

(See also Hardware Mfrs.)

Ahrend, Herman & Son, 179 Van Buren, New-
ark, N. J.
Automatic Tumbler Lock Co., 420 Sansom,
Phila., Pa.
Barrows Lock Co., Lockport, Ill.
Bates, L. L. & Co. (Safe), 150 Portland, Bos-
ton, Mass.
Blake, Ira G. (Time Lock), Worcester, Mass.
Bohannon, Wilson, 760 Lex. av, Brooklyn, N. Y.
Branford Lock Works, Branford, Conn.
Brass Goods Mfg. Co. (Refrigerator), Nevins e
Union, Brooklyn, N. Y.
Bridgeport Gun Implement Co. (Bicycle, etc.),
Bridgeport, Conn.
Champion Safety Lock Co., Geneva, O.
Chicago Hardware Co., 40 Dearborn, Chicago,
Ill.
Climax, J. H. W. Co., Newark, N. J.
Corbin Cabinet Lock Co., New Britain, Conn.
Cowles, C. & Co. (Inc.), (Malleable & Brass,
Automobile, etc), New Haven, Conn.
Dayton Mfg. Co., Dayton, O.
Dayton Supply Co. ("Dayton" Cantpleck for
Doors), Dayton, O.
Eagle Lock Co. (Cabinet, Trunk & Padlock),
Terryville, Conn.
Forsyth Mfg. Co. (Combination), 41 Chandler,
Buffalo, N. Y.
Fram, E. T., Lock Co. (Padlocks), Lancaster,
Pa.
Giant Lock Co., 49 Wood, Cleveland, O.
Gibbs Automatic Lock Co., Lexington, Ky.
Gonce Lock Mfg. Co. (Keyless), Chattanooga,
Tenn.
Hall, Wm. & Co. (Asylum & Prison), 4 Dock
sq., Boston, Mass.
Ideal Lock Co. ("Ideal" Door), 257 39th, Brook-
lyn, N. Y.
Indianapolis Lock Co. (Post Office), Indianap-
olis, Ind.
Ives, Hohart B. Co. (Sash), New Haven, Conn.
Kell, Francis & Son, 667 E 163d, N. Y.
Keyless Lock Co., 1041 Newman, Indianapolis,
Ind.
Keystone Lock Works, 234 Ionic, Phila., Pa.
Lockwood Mfg. Co., S. Norwalk, Conn.
Loeffelholz Co. (Car & Switch), 170 Clinton,
Milwaukee, Wis.
Meyersdale Mfg. Co., Meyersdale, Pa.
Michigan Mfg. Co., Ypsilanti, Mich.
MILLER, J. B., KEYLESS LOCK CO.,
("Miller's" Keyless), Kent, O. (See adv.
below)
Miller, J. Walter (Padlocks), Lancaster, Pa.
Miller Lock Co. (Keyless Padlock, Car, Switch,
etc.), 4523 Tacony, Phila., Pa.
National Lock Co., Rockford, Ill.
National Novelty Corp'n, 826 B'way, New York
New England Lock & Hinge Co., Winchendon,
Nock, G. W., 126 N 4th, Phila., Pa. Mass.
Norwalk Lock Co., South Norwalk, Conn.
Ochsner, A. & Son (Coach), New Haven, Conn.
Payson Mfg. Co., Chicago, Ill.

Peck, Stow & Wilcox Co., 27 Murray, N. Y.,
& Sonthington, Conn.
Penn Hardware Co. ("Heinzmann" Cylinder
Dead Knob), Reading, Pa.
Phoenix Lock Works, 22 Commercial, Newark,
Reading Hardware Co., Reading, Pa. N. J.
Reeves Mfg. Co. (Bicycle), New Haven, Conn.
Romer & Co. (Inc.), 275 Passaic, Newark, N. J.
Russell & Erwin Mfg. Co., New Britain, Conn.
Sargent & Co. (General Line of Key Locks),
Water & Wallace, New Haven, Conn., &
94 Centre, New York
Sargent & Greenleaf Co. (General Line of Key
Locks), 178 Court, Rochester, N. Y.
Schroder, J. B. & Co., 133 W 5th, Cincinnati, O.
Slaymaker, S. R. (Bicycle, Door, Dead, Dog
Collar, Store Door & Padlock), Lancaster,
Pa.
Smith & Egge Mfg. Co. (Pad, Mail Box, Sewing
Machine and Piano), Bridgeport, Conn.
Star Lock Works, 110 S 8th, Phila., Pa.
Stearns, E. C. & Co., 100 Onelda, Syracuse,
N. Y.
Stewart-Crook Hdw. Co., 7 N Liberty, Balti-
more, Md.
Taylor & Boggis Foundry Co., Cleveland, O.
Tiebout, W. & J. (Brass), 118 Chambers, N. Y.
Tower & Lyon Co., 95 Chambers, N. Y.
United States Steel Lock Co., Lyons, Ia.
Wise, J. B. (Sewing Machine & Organ), 41 Mill,
Watertown, N. Y.
Woodruff, W. W. & Sons Co. (Carriage Door),
Mt. Carmel, Conn.
Wrightsville Hardware Co., ("Christman
Shutter Lock & Bower), Wrightsville, Pa.
Yale & Towne Mfg. Co., 9 Murray, New York.
Works: Stamford, Conn.

Lock Mfrs. (Barn Door)

Western Brass Mfg. Works (Iron Japanned &
Brass), 21st & Rockwell, Chicago, Ill.

Lock Mfrs. (Bicycle)

Corbin Cabinet Lock Co., New Britain, Conn.

Lock Mfrs. (Car & Switch)

Adams & Westlake Co., Ontario & N Franklin,
Chicago, Ill.
Blanchard Railway Switch Lock Co., 161 W
Springfield, Boston, Mass.
Bohannon, Wilson, 760 Lexington av, Brooklyn,
N. Y.
Climax, J. H. W., 275 Passaic, Newark, N. J.
Creamer, W. G. & Co., 96 John, N. Y.
Dayton Mfg. Co., Dayton, Ohio
Detroit Ship Building Co. (Brass Dept.), De-
troit, Mich.
Edgar Car Lock & Seal Co. (Box Car Locks,
etc.), Iola, Kan.
Loeffelholz Co., Milwaukee, Wis.
MILLER, J. B., KEYLESS LOCK CO.,
("Miller's" Keyless), Kent, O. (See adv.
below)
Miller, J. B. Lock Co., 4519 Tacony, Phila., Pa.
Romer & Co. (Inc.), 275 Passaic, Newark, N. J.
Russell & Erwin Mfg. Co., New Britain, Conn.,
& 43 Chambers, N. Y.
Sargent & Co., New Haven, Conn., & 94 Center
Slaymaker, S. R., Lancaster, Pa. N. Y.

*Lock Mfrs. (Clothes Locker)

MILLER, J. B., KEYLESS LOCK CO.,
("Miller's" Keyless), Kent, O. (See adv.
below)

Lock Mfrs. (Dog Collar)

Corbin Cabinet Lock Co. (Padlock, etc.), New
Britain, Conn.
Tower & Lyon Co., 95 Chambers, New York
MILLER, J. B., KEYLESS LOCK CO.,
("Miller's" Keyless), Kent, O. (See adv.
below)

*Lock Mfrs. (Elevator Door)

(See also Elevator Safety Locks)

CHISHOLM & MOORE MFG. CO.,
Lake & Kirtland, Cleveland, O. (See adv.
index, end of book)

*Lock Mfrs. (Keyless)

Churchill & Spaulding, 464 Carroll av., Chicago,
Ill.
MILLER, J. B., KEYLESS LOCK CO.,
("Miller's"), Kent, O. (See adv. below)

Lock Mfrs. (Padlock)

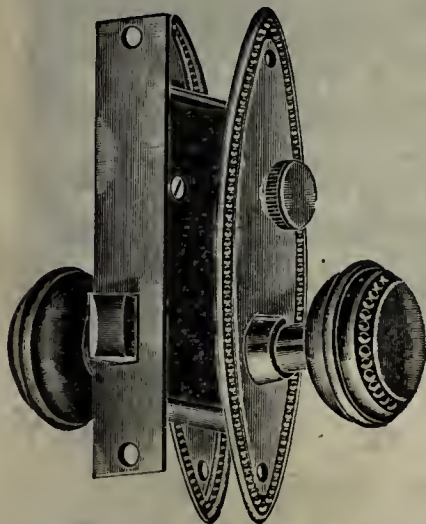
Ames Sword Co. ("Perfection"), Chicopee, Mass.
Bohannon, Wilson, 760 Lexington av, Brooklyn,
N. Y.
Chapman, W. H. Co., Middletown, Conn.
Climax, J. H. W. Co., 275 Passaic, Newark,
N. J.
Corbin Cabinet Lock Co. (Wrought & Cast),
New Britain, Conn.
Dayton Mfg. Co., Dayton, O.
Eagle Lock Co., Terryville, Conn.
Fram, E. T., Lock Co., Lancaster, Pa.
Mallory, Wheeler & Co., New Haven, Conn.
MILLER, J. B., KEYLESS LOCK CO.,
("Miller's" Keyless), Kent, O. (See adv.
below)
Miller, J. Walter, Lancaster, Pa.
Miller Lock Co. (a Large Assortment of Styles),
4523 Tacony, Phila., Pa.
Romer & Co. (Inc.), 275 Passaic, Newark, N. J.
Russell & Erwin Mfg. Co., New Britain, Conn.,
& 43 Chambers, N. Y.
Safe Padlock & Hardware Co., Lancaster, Pa.
Sargent & Co., New Haven, Conn., & 94 Center
Slaymaker, S. R., Lancaster, Pa. N. Y.
Smith & Egge Mfg. Co. ("Giant"), Bridge-
port, Conn.
Tower & Lyon Co., 95 Chambers, N. Y.
Yale & Towne Mfg. Co., 9 Murray, New York.
Works: Stamford, Conn.

Lock Mfrs. (Pole)

Cutter, Geo. Co., 129 Fulton, Chicago, Ill.

Lock Mfrs. (Prepay Meter)

Safety Meter Lock Co., Columbus, O.



Mortise Lock and Latch R. H. No. 51,
Set 752 1/4 or 761 1/4, steel or brass struck
knobs and escutcheos.

KEY LOCKS A DELUSION

Nine times out of ten it does not require anything which resembles a key to unlock the lock. It is a very convenient and popular idea with everybody to get along without keys for their Watch and Safe. It is very much more convenient to get along without keys for House, Office, Barn, Store, Tool Chest or Locker.

Why be longer annoyed, chasing after, or fumbling pockets for keys, or door for key-hole. When in need of locks for any purpose get a Miller Keyless, use it for a time and you will forever discard key locks.

Let us quote you prices. You can have a stem-wind house as well as watch, for less than the cost of key locks.



No. 415
Lock for Metal Lockers.

The J. B. Miller Keyless Lock Co. KENT OHIO

***Lock Mfrs. (Safe Deposit)**

HALL'S SAFE CO., Main Office & Works, Spring Grove av., Cincinnati, O. (See adv. index, end of book)

Lock Mfrs. (Sash)

(See Sash Locks.)

Lock Mfrs. (Sash, Ventilating)

BICKELHAUPT, GEO., SKYLIGHT Works, 243 W 47th, New York (See adv. index, end of book)

Cannon Mfg. Co., ("Cannon"), 388 La Salle, Chicago, Ill.

Champion Safety Lock Co., Geneva, O.

Dayton Supply Co., Dayton, O.

Lawson Mfg. Co. ("Matchless" Automatic Burglar Proof), 40 Dearborn, Chicago, Ill.

Platt-Baker Co., 12 E. 23d, New York.

***Lock Mfrs. (Slot Machine)**

MILLER, J. B., KEYLESS LOCK CO., ("Miller's" Keyless), Kent, O. (See adv. on preceding page)

Lock Mfrs. (Stall Door)

Western Brass Mfg. Works, 21st & Rockwell, Chicago, Ill.

***Lock Mfrs. (Store Door)**

MILLER, J. B., KEYLESS LOCK CO., ("Miller's" Keyless), Kent, O. (See adv. on preceding page)

***Lock Mfrs. (Telephone Pay-Station)**

MILLER, J. B., KEYLESS LOCK CO., ("Miller's" Keyless), Kent, O. (See adv. on preceding page)

Lock Mfrs. (Time)

Barnes Safe & Lock Co., Pittsburg, Pa.

Consolidated Time Lock Co., 315 W. 4th, Cincinnati, Ohio.

Diebold Safe & Lock Co., Canton, O., & 30 Reade, New York

HALL'S SAFE CO. Main Office & Works, Spring Grove av., Cincinnati, O. (See adv. index, end of book)

Macneale & Urban Co., Hamilton, O.

Mosler Safe Co., Hamilton, O.

Sargent & Greenleaf Co., Rochester, N. Y.

Yale & Towne Mfg. Co., 9 Murray, New York.

***Lock Mfrs. (Tool Chest)**

MILLER, J. B., KEYLESS LOCK CO., ("Miller's" Keyless), Kent, O. (See adv. on preceding page)

Lock Mfrs. (Trunk & Suit Case)

Corbin Cabinet Lock Co., New Britain, Conn.

Cream City Mfg. Co., Milwaukee, Wis.

MILLER, J. B., KEYLESS LOCK CO., ("Miller's" Keyless), Kent, O. (See adv. on preceding page)

Lock-Nuts

American Bolt & Machine Co. ("Post"), Ottawa, Ohio

American Iron & Steel Mfg. Co., Lebanon, Pa.

American Lock Nut Co. ("Burrows") Old South Bldg., Boston, Mass.

American Lock Nut Co., Oregon, Ill.

American Railway Steel Tie Co., 42 B'way, New York

American Pin Co. (Brass), Waterbury, Conn.

Blessing, Louis (Positive), Jackson, Mich.

Bourne & Knowles Mfg. Co., Cleveland, O.

Capital Lock-Nut & Washer Co., ("Gaines") Columbus O.

CHANDLER CO., Springfield, Mass., (See adv. index, end of book)

CHASE-SHAWMUT CO., ("Shawmut") Newburyport, Mass. (See adv. index, end of book)

Climax Nut Lock Mfg. Co., 1132 Collins, St. Louis, Mo.

Columbia Nut & Bolt Co. ("Columbia"), Bridgeport, Conn.

Doelp Forging & Casting Specialty Co. ("Perfection"), Lima, O.

Elastic Nut & Bolt Co. (Self-Locking), Milwaukee, Wis.

Eureka Nut Lock Co. ("Bartley"), 32d & Smallman, Pittsburg, Pa.

Grip Nut Co. (One-piece Steel), 152 Lake, Chicago, Ill.

Hamlin & Emery Brass Co. (Brass), 26 Island Boston, Mass.

Haskell, Wm. H. Mfg. Co., Pawtucket, R. I.

Jobson, Walter, Liverpool, Pa.

Jones Positive Nut Lock Co., 2812 Wabash av. Chicago, Ill.

LUNKENHEIMER CO. (Brass), General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

Milton Mfg. Co., Milton, Pa.

MURPHY, CHRISTOPHER & CO., ("Bartley," Mfrs., Representative), First National Bank Bldg., Chicago, Ill. (See adv. index, end of book)

National Lock Washer Co., 65 Johnson, New-ark, N. J.

Peerless Mfg. Co., 15th & Ormsby av., Louisville, Ky.

Pittsburg Tool & Drop Forge Co. ("Cheswick"), Cheswick, Pa.

Positive Lock Washer Co., 181 Miller, Newark, N. J.

Rail Joint Co., 29 W 34th, New York

Railway Lock Nut Co., 77 Jackson boul., Chicago, Ill. ("Bull Dog").

Ruffner & Son (Automatic, Single & Double), Falls of Schuylkill, Phila., Pa.

Scott Mfg. Co., Racine, Wis.

Smith Improved Lock Nut Co. ("Smith," Spring Steel, Oil Tempered), Rockford, Ill.

Steel City Electric Co. ("Fullman"), Pittsburg, Pa.

U. S. METAL & MFG. CO. ("Columbia"), 25 Broad, New York. (See adv. index, end of book)

Verona Tool Works, Murtland bldg, Pittsburg, Pa., & Verona, Pa.

Western Tube Co. (Steam Fitters), Kewanee, Ill.

Williams, Jno. R. Co. (Spiral), 114 Liberty, New York.

Lock-Nuts (Conduit)

Steel City Electric Co. ("Fullman," for Fastening Electric Wire Conduits), 3d & Penn av. Pittsburg, Pa.

***Lockers (Expanded Metal)**

CHICAGO BUILDERS SPECIALTIES Co., 138 Washington, Chicago, Ill. (See adv. below)

GENERAL FIRE-PROOFING CO., Youngstown, O., & 156 5th av., New York. (See adv. index & branch offices, end of book)

MERRITT & CO., 1024 Ridge av., Phila., Pa. (See adv. at bottom of page)

Lockers (Metallic)

Bataille, Achille & Co., (Steel), 587 Hudson, New York

BUFFALO WIRE WORKS CO., 316 Terrace, Buffalo, N. Y. (See adv. index, end of book)

CANTON ART METAL CO., Canton, O. (See adv. index, end of book)

CHICAGO BUILDERS SPECIALTIES Co., 138 Washington, Chicago, Ill. (See adv. below)

Churchill & Spaulding (Durand Steel), 464 Carroll av., Chicago, Ill.

CINCINNATI MFG. CO. (Wire), 1243 W 6th, Cincinnati, O. (See adv. index, end of book)

CITY FORGE & IRON WORKS, (Andrew Plocher, Prop.), Dayton, O. (See adv. index, end of book)

WE MAKE METAL CLOTHES LOCKERS

FOR FACTORIES, SHOPS, GYMNASIUMS, OFFICES, ETC.

Chicago Builders Specialties Co., Chicago

For Concrete Reinforcing — Concrete Mixers — Metal Lath — Metal Studs — Metal Corner Bead, Joist Hangers, Etc. COME TO US.

**METAL LOCKERS
AND SHELVING**

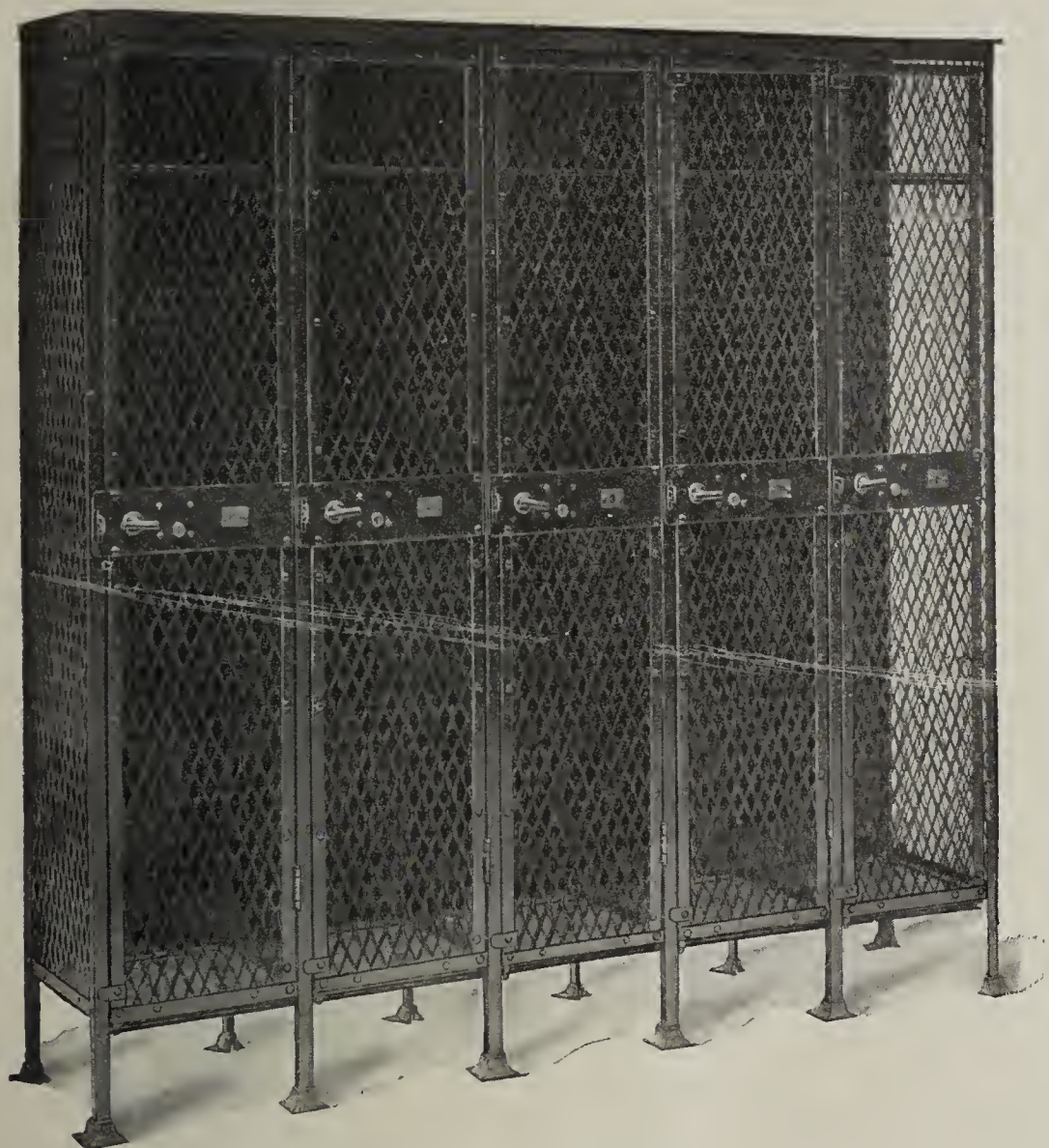
MERRITT & COMPANY
1022-1030 RIDGE AVE.,
PHILADELPHIA, PA., U. S. A.

New Expanded Pen-Dar Metal Lockers

MANUFACTURED ONLY BY

EDWARD DARBY & SONS CO., Inc.

239 Arch Street,
PHILADELPHIA, PA.
U. S. A.



DESIGN No. 230, S. T.

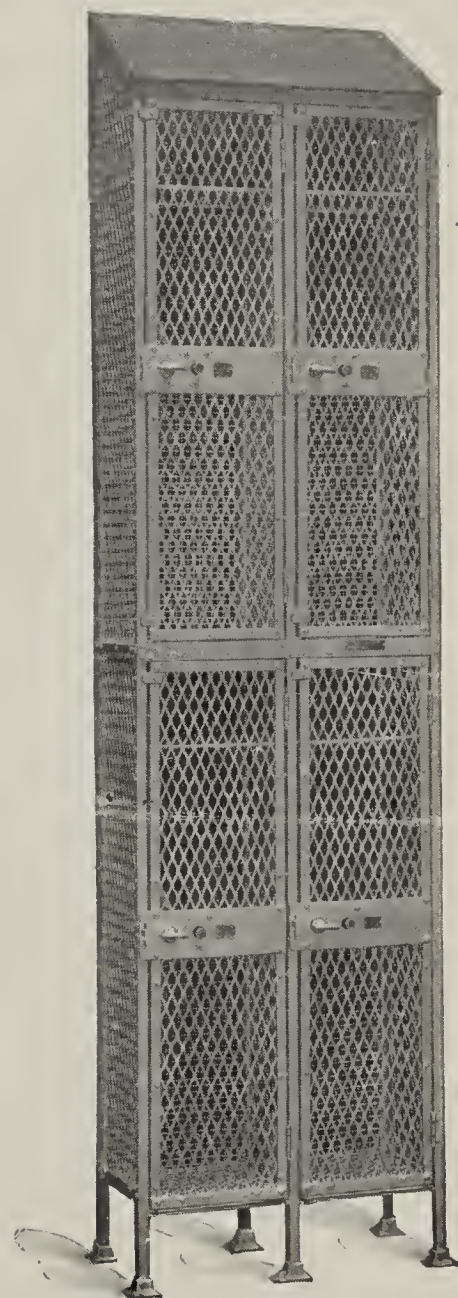
GERM PROOF AND EASILY DISINFECTED.

CONTENTS VISIBLE.

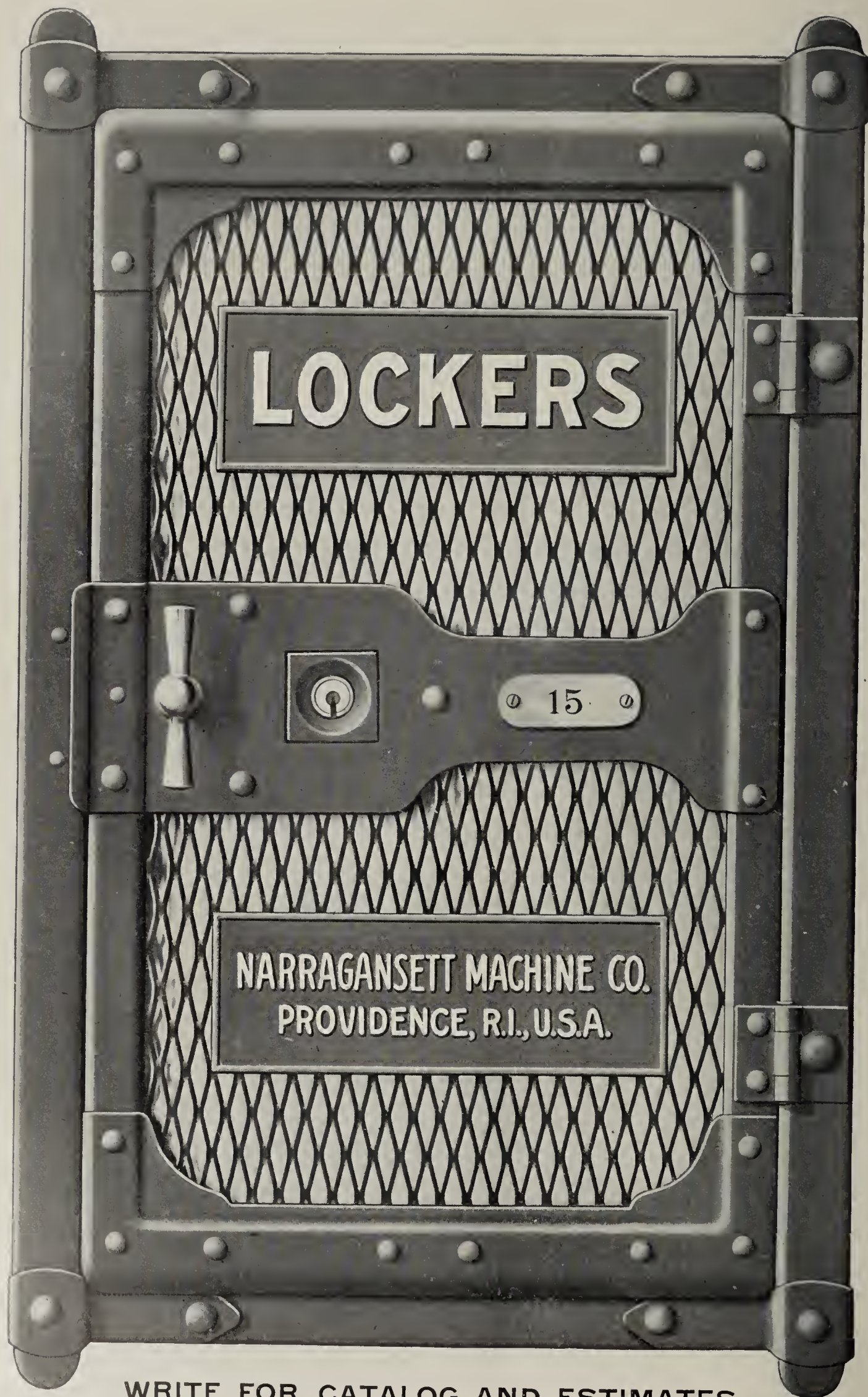
TIME SAVERS.

Correspondence Solicited.

A PLACE FOR EVERYTHING AND EVERYTHING IN ITS PLACE.



DESIGN No. 230, D. T.



WRITE FOR CATALOG AND ESTIMATES

DARBY, EDW. & SONS CO., 239 Arch,
Phila., Pa. (See adv. index, end of book)

ELLER MFG. CO., Canton, Ohio. (See
adv. index end of book)

Federal Steel Fixture Co., ("Federal" Steel).
497 W. Kinzie, Chicago, Ill.

GENERAL FIRE-PROOFING CO.,
Youngstown, O., & 156 5th av, New York.
(See adv. index & branch offices, end of book)

Hart & Cooley Co. ("H. & C." Wrought Steel).
New Britain, Conn.

Library Bureau, 530 Atlantic, Boston, Mass.

LYON METALLIC MFG. CO. (Steel),
Aurora, Ill. (See adv. index, end of book)

McDowell Mfg. Co. (Expanded Metal) 541 Wood,
Pittsburg, Pa.

MERRITT & CO. (Expanded Metal),
1024 Ridge av, Phila., Pa. (See adv. at
bottom of preceding page)

MICHIGAN WIRE CLOTH CO. (Wire,
etc.), 500 Howard, Detroit, Mich. (See
adv. index, end of book)

NARRAGANSETT MACHINE CO.,
Providence, R. I. (See adv. index, end of
book)

Phoenix Steel Co., Inc., Putnam & P. R. R.,
Pittsburg, Pa.

Ritzler, J. A. Cornice & Ornament Co., Kansas
City, Mo.

SMITH, F. P. WIRE & IRON WORKS,
100 Lake, Chicago, Ill. (See adv. index, end
of book)

TAYLOR & DEAN, 205 Market, Pitts-
burg, Pa. (See adv. index, end of book)

WISCONSIN IRON & WIRE WORKS,
190 E. Water, Milwaukee, Wis. (See adv.
index, end of book)

WRIGHT WIRE CO. (Wire & Metal),
Worcester, Mass. (See adv. index & branch
offices, end of book)

*Lockers (Wood)

NARRAGANSETT MACHINE CO.,
Providence, R. I. (See adv. index, end of
book)

Locks (Hasp)

Allshouse & Seal ("Gabler" Combined Spring
Catch Hasp Lock), The Arcade, Cleveland, O.

Prouty, T. C. Co., Ltd., Albion, Mich.

Locks & Latches (Sliding Door)

Cronk & Carrier Mfg. Co. (Steel), Elmira,
Lane Bros. Co., Poughkeepsie, N. Y. N. Y.

Penn Hardware Co., Reading, Pa.

Reading Hardware Co., Reading, Pa.

Russell & Erwin Mfg. Co., New Britain, Conn.,
& 43 Chambers, N. Y.

Wilcox Mfg. Co. (Self-Closing Fire Door), Au-
rora, Ill. (See adv. index, end of book)

Locks & Locking Device (Prison Cell)

CHAMPION IRON CO., Kenton, O.
(See adv. index, end of book)

Climax, J. H. W. Co., 275 Passaic, Newark,
N. J.

Ham, L. M. & Co., 152 Portland, Boston, Mass.

Pauly Jail Building Co., St. Louis, Mo.

Stewart Jail Works Co., Cincinnati, O.

Van Dorn Iron Works Co., Cleveland, O.

Locomotive Bearings

(See Bearings, Locomotive; also Bearings,
Anti-Friction; also Babbitt Metal)

Locomotive Bell Ringers

CHICAGO PNEUMATIC TOOL CO.
("Little Giant," Pneumatic), Fisher bldg.,
Chicago, Ill. (See adv. index, & branch of-
fices, end of book)

Hammett, Hiram G., 476 8th, Troy, N. Y.

Reginbottom, S. H. (Automatic), Saginaw,
Mich.

Smedley Steam Pump Co. (Automatic), Du-
huque, Iowa

United States Metallic Packing Co. (The Goll-
mae), 427 N 13th, Phila., Pa.

Western Railway Equipment Co., Union Trust
bldg., St. Louis, Mo.

Locomotive Coaling Stations

(See Coal & Ore Handling Machinery)

Locomotive Fire Kindler

Railway Materials Co. ("The Ferguson," Port-
able), Old Colony bldg, Chicago, Ill.

Locomotive Guide Liner

Starrett, L. S. Co., Athol, Mass.

Locomotive Jacket Iron

AMERICAN SHEET & TIN PLATE
Co., ("Wood's" Planished), Frick bldg, Pitts-
burg, Pa. (See adv. index & branch offices,
end of book)

Wood, Alan Iron & Steel Co. (Patent Planished),
519 Arch, Phila., Pa.

Wood, J. & Bros. Co. (Inc.), Conshohocken, Pa.

Locomotive Jacket Steel Sheets for Painting

AMERICAN SHEET & TIN PLATE
Co., Frick bldg, Pittsburg, Pa. (See adv.
index & branch offices, end of book)

Locomotive Lagging

Carey, Philip Mfg. Co., Lockland, O.

Franklin Mfg. Co. (Also Air Pump Cylinder
Lagging), Franklin, Pa.

Johns, H. W.-Manville Co. ("Magnesia," "As-
bestos," "Fire Felt"), 100 William, New
York

Keasbey & Mattison Co. (Magnesia & Asbes-
tos), Main Office & Works, Ambler, Pa.
& 100 John, New York

Keystone Asbestos Magnesia Co., Fulton bldg,
Pittsburg, Pa.

New York Asbestos Mfg. Co., 80 John, New York

Union Fibre Co. (Lith), Winona, Minn., & Mil-
waukee, Wis.

UNITED STATES MINERAL WOOL
Co., 140 Cedar, New York. (See adv. in-
dex, end of book)

WATSON, H. F. CO., Erie, Pa. (See
adv. index & branch offices, end of book)

*Locomotive Netting

MICHIGAN WIRE CLOTH CO., De-
troit, Mich. (See adv. index, end of book)

TYLER, W. S. CO., Cleveland, O., &
11 B'way, New York. (See adv. index, end of
book)

Locomotive Oil Cups

(See also Lubricators, Oil & Grease Cup)

AMERICAN BRAKE SHOE & FOUN-
dry Co. (Steel), 170 B'way, New York. Sales
Office & Works, Chicago Heights, Ill. (See
adv. index & branch offices, end of book)

Detroit Lubricator Co., Hodges bldg, Detroit,
Mich.

Kelly & Jones Co., 135 Water, Pittsburg, Pa.

LUNKENHEIMER CO., General Of-
fices, Beekman & Waverly, Cincinnati, O.
(See adv. index, end of book)

Michigan Lubricator Co. ("Michigan"), Detroit,
Mich.

Powell, Wm. Co., 2529 Spring Grove av, Cin-
cinnati, O.

Locomotive Rod & Guide Cups

Detroit Lubricator Co. ("Detroit"), Detroit,
Mich.

LUNKENHEIMER CO. General Of-
fices, Beekman & Waverly, Cincinnati, O.
(See adv. index, end of book)

Locomotive Sanders

(See also Boxes, Sand)

American Locomotive Sander Co. ("Leach,"
"Dean," "Houston," "She," "Curtis,"
"Sherbourne" & "Austin"), 13th & Willow,
Phila., Pa.

Dodge, N. B. Mfg. Co. ("National" Automatic
Vacuum Track Sander), Fitchburg, Mass.

Economy Locomotive Sander Co., 26 S Charles,
Jewett Car Co., Newark, O. Baltimore, Md.

MacLeod, Walter & Co. (Pneumatic), Cincinnati,
O.

Mann-McCann Co. ("N. W." Air), Fisher bldg,
Chicago, Ill.

Ohio Brass Co. ("Nichols-Intern"), Mansfield,
Ohio

Ridlon, Frank Co. ("Kilbourne"), 200 Summer,
Boston, Mass.

Traction Equipment Co. ("Hammond," also
"Street Corner Sauder"), 72 Grand av,
Brooklyn, N. Y.

Watters, J. H. ("Watters" A B C Pneumatic
Track), Augusta, Ga.

Western Railway Equipment Co. (Mudd Pneu-
matic Track Sanders), Missouri Trust bldg,
St. Louis, Mo.

Locomotive Spring Balances

Star Brass Mfg. Co., 103 E Dedham, Boston,
Mass.

Locomotive Stokers

Day-Kincaid Stoker Co. (The Kincaid), Cin-
cinnati, O.

Locomotive Stoker Co., 184 Washington st.,
Chicago, Ill.

Locomotive Tiles

Akron Fire Brick Co., Akron, O.

American Locomotive Equipment Co. ("Wade-
Nicholson," Hollow Arch, etc.), Railway
Exchange bldg, Chicago, Ill.

Buckeye Fire Clay Co., Uhrichsville, O.

Chicago Retort & Fire Brick Co., 45th & Clark,
Chicago, Ill.

Denny-Renton Clay & Coal Co., Seattle, Wash.

Denver Fire Clay Co., 1742 Champa, Denver,
Col.

FISKE & CO. (Inc.), 161 Devonshire,
Boston, Mass., & Flat Iron bldg, New York.
(See adv. index, end of book)

Fulton Fire Brick Co., Fulton, Mo.

Garden City Sand Co., Security bldg, Chicago,
Ill.

Garfield Fire Clay Co., Robinson, Pa.

Harblison-Walker Refractories Co., Farmers'
Bank bldg, Pittsburg, Pa., & 1133 B'way,
N. Y. City

Laclede Fire Brick Mfg. Co., Manchester & Snl-
phur avs, St. Louis, Mo.

Lincoln Fire Brick & Shape Co., 1st Nat'l Bk
bldg, Pittsburg, Pa.

MAURER, HENRY & SON, 420 E.
23d, New York; Penna bldg, Phila., Pa.

Works, Maurer, N. J. (See adv. index,
front inside cover)

Mutton Hollow Fire Brick Co., Woodbridge,
N. J.

NATIONAL FIRE-PROOFING CO.,
Fulton bldg, Pittsburg, Pa. (See adv. in-
dex & branch offices, end of book)

National Pyrogranit Co., 17 Battery pl, New
York

Newton-Perkins Fire Brick Co., Albany, N. Y.

Ostrander Fire Brick Co., 309 2d, Troy, N. Y.

Parker-Russell Mining & Mfg. Co., St. Louis,
Mo.

Perth Amboy Fire Brick Co., Perth Amboy,
N. J., & 42 B'way, New York

Remmey, Richard, Sons Co., 2637 E Cumberland,
Phila., Pa.

RUTLAND FIRE CLAY CO., Rutland,
Vt. (See adv. index & branch offices, end of
book)

St. Louis Vitrified & Fire Brick Co., St. Louis,
Mo.

Stevens, H. Sons Co., Macon, Ga.

Superior Fire Lining Co., Trenton, N. J.

Tygart Fire Brick Co., Fullerton, Ky.
& Co., 500 N Broad, Phila., Pa.

Washington Brick, Lime & Mfg. Co., Spokane,
Wash.

Locomotive Water Cranes

(See Cranes, Locomotive Water)

Locomotive Weighing Apparatus (Portable)

MacLeod, Walter & Co., 213 E Pearl, Cincin-
nati, O.

Locomotives

American Locomotive Co., 111 B'way, New York

Baldwin Locomotive Works (Burnham, Williams
& Co.), 500 N. Broad, Phila., Pa.

BYERS, JNO. F. MACHINE CO., Ra-
venna, O. (See adv. index, end of book)

Climax Mfg. Co., Corry, Pa.

DAVENPORT LOCOMOTIVE WORKS
(Contractors', Mine, etc.), Davenport, Ia.
(See adv. at bottom of following page)

GENERAL ELECTRIC CO., Schenec-
tady, N. Y., & 44 Broad, New York. (See
adv. index & branch offices, end of book)

Hicks Locomotive & Car Works, 277 Dearborn,
Chicago, Ill.

Hunt, C. W. Co., 45 B'way, N. Y. Works, W.
New Brighton, L. I., N. Y.

Evans & Howard Fire Brick Co., 920 Market, St. Louis, Mo.
 Kilby Locomotive & Machine Works (Logging), Anniston, Ala.
KOPPEL, ARTHUR CO., 68 Broad, New York. (See adv. on following page; branch offices, end of book)
 Lima Locomotive & Machine Co., Lima, O.
PORTER, H. K. CO., 541 Wood, Pitts-burg, Pa. (See adv. on following page)
SHAW, WILLIS (New and Second hand, all kinds), 171 La Salle, Chicago, Ill. (See adv. on following page)
 Vulcan Iron Works, Wilkes-Barre, Pa.
WESTINGHOUSE ELECTRIC & MFG. Co. (Electric), Pittsburg, Pa. (See adv. index & branch offices, end of book)
WIENER, ERNST CO., 68 Broad, New York. (See adv. index, end of book)

Locomotives (Compressed Air)

American Locomotive Co., 111 B'way, New York
 Baldwin Locomotive Works (Burnham, Williams & Co.), 500 N Broad, Phila., Pa.
KOPPEL, ARTHUR CO., 68 Broad, New York. (See adv. on following page; branch offices, end of book)
PORTER, H. K. C. (Industrial), 541 Wood, Pittsburg, Pa. (See adv. on following page)
 Vulcan Iron Works, Wilkes-Barre, Pa.
WIENER, ERNST CO., 68 Broad, New York. (See adv. index, end of book)

Locomotives (Contractors')

(See Locomotives, Industrial & Mine)

Locomotives (Dirt Road)

Buffalo Pitts Co., Buffalo, N. Y.
 Gelser Mfg. Co., Waynesboro, Pa.
 Longenecker, Chas. & Co., 150 Nassau, New York, N. Y.
 Port Huron-Engine & Thresher Co. (Traction), Port Huron, Mich.
 Russell & Company, Massillon, O.

Locomotives (Electric)

Akron Electrical Mfg. Co., Akron, O.
 American Locomotive Co., 111 B'way, New York
 Baldwin Locomotive Works, 500 N Broad, Phila., Pa.
 Brill, J. G. Co., 62d & Woodland av, Phila., Pa.
GENERAL ELECTRIC CO., Sche-nectady, N. Y., & 44 Broad, New York. (See adv. index & branch offices, end of book)
 Glover Machine Works, Marietta, Ga.
 Goodman Mfg. Co., S Halsted & 48th pl, Chicago, Ill.
 Hunt, C. W. Co. (for Industrial Railways), 45 B'way, N. Y. Works, W New Brighton, S. I., N. Y.
KOPPEL, ARTHUR CO. (Industrial), 68 Broad, New York. (See adv. on following page; branch offices, end of book)
 McGuire-Cummings Mfg. Co., 122 N Sanganon, Chicago, Ill.
PORTER, H. K. CO. (for Industrial Railways), 541 Wood, Pittsburg, Pa. (See adv. on following page)
ROBINS CONVEYING BELT CO. (Stor-age Battery), 19 Park row, New York. (See adv. index, end of book)
WESTINGHOUSE ELECTRIC & MFG. Co., Pittsburg, Pa. (See adv. index & branch offices, end of book)
WIENER, ERNST CO. (Industrial), 68 Broad, New York. (See adv. index, end of book)

Locomotives (Electric, Mining)

Akron Electrical Mfg. Co., Akron, O.
 Baldwin Locomotive Works, 500 N Broad, Phila., Pa.
 Columbus Elevator & Machine Co., Curtis & Jefferson avs, Columbus, O.
 Erie City Iron Works, Erie, Pa.
GENERAL ELECTRIC CO., Sche-nectady, N. Y., & 44 Broad, New York. (See adv. index & branch offices, end of book)
 Goodman Mfg. Co., S Halsted & 48th pl, Chicago, Ill.
 Hoshor-Platt Co., 120 Liberty, New York

JEFFREY MFG. CO., Columbus, O. (See adv. index & branch offices, end of book)
KOPPEL, ARTHUR CO., 68 Broad, New York. (See adv. on following page; branch offices, end of book)
 Link Belt Machinery Co., 39th & Stewart av, Chicago
 Morgan Electric Machine Co., Monadnock blk, Chicago
 Prox, Frank Co., Terre Haute, Ind.
WESTINGHOUSE ELECTRIC & MFG. Co., Pittsburg, Pa. (See adv. index & branch offices, end of book)
WIENER, ERNST CO., 68 Broad, New York. (See adv. index, end of book)

Locomotives (Gasoline)

Prox, Frank Co., Terre Haute, Ind.
 Sheffield Car Co., Three Rivers, Mich.

Locomotives (Industrial & Mine)

(See also Locomotives, Electric Mining.)

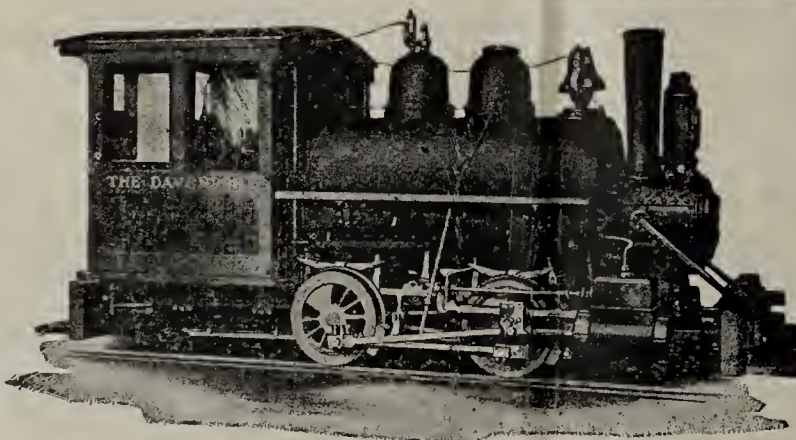
American Locomotive Co., 111 B'way, New York
 Baldwin Locomotive Works, 500 N Broad, Phila., Pa.
BYERS, JNO. F. MACHINE CO. (Geared), Ravenna, O. (See adv. index, end of book)
CAREY, GEO. H. (New and Second Hand), 1 B'way, New York. (See adv. index, end of book)
CARLIN'S, THOS. SONS CO., 1300 River av, Allegheny, Pa. (See adv. index, end of book)
 Climax Mfg. Co. (Tramway), Corry, Pa.
 Columbus Elevator & Machine Co., Curtis & Jefferson, Columbus, O.
CONTRACTORS SUPPLY & EQUIP-ment Co., Old Colony bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
DAVENPORT LOCOMOTIVE WORKS, Davenport, Ia. (See adv. below)
 Glover Machine Works, Marietta, Ga.
 Hall Motor Vehicle Co. (Gasoline), Dover, N. J.
 Heisler Locomotive Works (Geared), Erie, Pa.
 Hoshor-Platt Co., 120 Liberty, New York
 Hunt, C. W. Co., 45 B'way, N. Y. Works, W New Brighton, S. I., N. Y.

DAVENPORT LOCOMOTIVE WORKS,

Davenport, Iowa, U. S. A.



ANY TYPE,
 ANY GAUGE
 ANY WEIGHT.



INDUSTRIAL
 LOCOMOTIVES
 FOR
 ALL PURPOSES.

EASTERN SALES OFFICE, 829-830 PARK ROW BUILDING, NEW YORK.



CONTRACTORS AND INDUSTRIAL

LIGHT LOCOMOTIVES

STEAM AND COMPRESSED AIR

FOR DESCRIPTIVE LEAFLET, ADDRESS



COMPRESSSD AIR MINE

H. K. PORTER COMPANY, 5041 Wood Street PITTSBURGH, PA.

KOPPEL, ARTHUR CO., 68 Broad,
New York. (See adv. below; branch offices,
end of book)

**MANUFACTURERS OF
COMPLETE INDUSTRIAL
AND
PORTABLE RAILROADS
A LARGE STOCK**

— OF —

**Rails, Steel Ties, Track, Port-
able Track, Switches, Frogs,
Turntables, Wheels, Axles,
Crossings, Spare Parts, Loco-
motives, Etc.**

WRITE FOR CATALOG "M"

ARTHUR KOPPEL COMPANY

66-68 Broad Street, New York
1639 Monadnock Blk., Chicago
Machesney Bldg., Pittsburgh
Chronicle Bldg., San Francisco
Works at Koppel, Beaver Co., Pa.

Lima Locomotive, & Machine Co. ("Shay"
Geared), Lima, O.
**PORTER, H. K. CO. (Steam, Electric
& Pneumatic), 541 Wood, Pittsburgh, Pa.** (See
adv. top of page)
**SHAW, WILLIS ("Vulcan"), 171 La
Salle, Chicago, Ill.** (See adv. below)

Stearns Mfg. Co., Erie, Pa.
Vulcan Iron Works, Wilkes-Barre, Pa.
**WATSON, BENJAMIN (New & Second
Hand), 66 Beaver, New York.** (See adv. in-
dex, end of book)
**WESTINGHOUSE ELECTRIC & MFG.
Co. (Electric), Pittsburgh, Pa.** (See adv. index
& branch offices, end of book)
WIENER, ERNST CO., 68 Broad,
New York. (See adv. index, end of book)

Locomotives (Logging)

American Locomotive Co., 111 B'way, New York
**CAREY, GEO. H. (New & Second
Hand), 1 B'way, New York.** (See adv. in-
dex, end of book)
Climax Mfg. Co. (Tramway), Corry, Pa.
DAVENPORT LOCOMOTIVE WORKS,
Davenport, Ia. (See adv. on preceding page)
Dilley Foundry Co., Pine Bluff, Ark.
Hicks Locomotive & Car Works, 277 Dearborn,
Chicago.
Kilby Locomotive & Machine Works, Anniston,
Ala.
KOPPEL, ARTHUR CO., 68 Broad,
New York. (See adv. in preceding column;
branch offices, end of book)
Lima Locomotive & Machine Co. ("Shay"
Geared & Direct Connected), Lima, O.
PORTER, H. K. CO., 541 Wood,
Pittsburg, Pa. (See adv. top of page)
**WATSON, BENJAMIN (New & Second
Hand), 66 Beaver, New York.** (See adv. in-
dex, end of book)
WIENER, ERNST CO., 68 Broad,
New York. (See adv. index, end of book)

Locomotives (Oil Burning)

American Locomotive Co., 111 B'way, New York
Baldwin Locomotive Works, 500 N Broad,
Philadelphia, Pa.
DAVENPORT LOCOMOTIVE WORKS,
Davenport, Ia. (See adv. on preceding page)
KOPPEL, ARTHUR CO., 68 Broad,
New York. (See adv. in preceding column;
branch offices, end of book)
WIENER, ERNST CO., 68 Broad,
New York. (See adv. index, end of book)

Locomotives (Plantation)

(See Locomotives, Industrial & Mine)

Locomotives (Pneumatic)

(See Locomotives, Compressed Air)

Locomotives Rebuilt

East St. Louis Locomotive & Machine Shop Co.,
East St. Louis, Mo.
**HICKS LOCOMOTIVE & CAR
Works, 277 Dearborn, Chicago, Ill.**
Raleigh Iron Works Co., Raleigh, N. C.
Rohlfuse-Howard Iron Works, Williamsport, Pa.

Locomotives (Road)

(See Locomotives, Dirt Road)

Locomotives (Second Hand)

(See Railroad Equipments, Second Hand; also
Railroad Supplies)

Locomotives (Traction)

(See Locomotives, Dirt Road)

Locomotives & Railways (Minia- ture)

Caguey Bros., 72 B'way, New York
Crescent Machine Co. (Scenic Railways), 1152
Trumbull av., Detroit, Mich.
Girard Machine Works (15-inch gauge), 2616
Girard av., Phila., Pa.
Herschell-Spillman Co., No. Towanda, N. Y.
Ingersoll Construction Co., 307 4th av., Pittsburg,
Pa.
Mangels, Wm. F. (Third Rail), 2941 W. 5th,
Brooklyn, N. Y.
Morris, E. Joy, 1416 Callowhill, Phila., Pa.
Thompson, L. A. Scenic Railway Co., 302 B'way,
Parker, C. W., Abilene, Kan. New York

LOCOMOTIVES

I am Chicago Sales Agent for Vulcan Locomotives for
Contractors and Mining purposes, and I also handle
second-hand Locomotives of all types and sizes, and
usually have some very attractive bargains in these.
Let me figure on your requirements.

WILLIS SHAW, Machinery,  **171 La Salle Street, CHICAGO.**

Log Hauls

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)
 American Sawmill Machinery Co. ("American" Friction), 114 Liberty, New York. Works: Hackettstown, N. J.
 Bay City Iron Co., Bay City, Mich.
 Chandler & Taylor Co., Indianapolis, Ind.
 Curtis & Co. Mfg. Co., St. Louis, Mo.
 Diamond Iron Works ("Diamond" Steam & Car Hauls), Minneapolis, Minn.
 Henderson, W. K. Iron Works & Supply Co., Shreveport, La.
LANE MFG. CO., Montpelier, Vt. (See adv. index, end of book)
 Link Belt Co., W. 39th & Stewart av., Chicago, Ill., & 299 B'way, New York
 Mecklenburg Iron Works, Charlotte, N. C.
 Southern Engine & Boiler Works, Jackson, Tenn.
 Union Iron Works, Bangor, Me.
 Wickes Bros., Saginaw, Mich.

Log Hooks or Timber Carriers.

CARPENTER, GEO. B. & CO., 202 S Water, Chicago, Ill. (See adv. index, end of book)
 Jackson Shovel & Tool Co. ("Acme"), Montpelier, Ind., & Market & Randolph, Chicago
LANE MFG. CO., Montpelier, Vt. (See adv. index, end of book)

Log Jackers

Buhl Malleable Co., Detroit, Mich.
 Garland, M. Co., Bay City, Mich.
LANE MFG. CO., Montpelier, Vt. (See adv. index, end of book)
 Link Belt Co., W. 39th cor. Stewart av., Chicago, Ill., & 299 B'way, New York
 Phoenix Mfg. Co., Eau Claire, Wis.
 Wickes Bros., Saginaw, Mich.

Log Loaders (Steam)

(See Loaders, Log)

Log Rollers

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)
 Diamond Iron Works ("Diamond" Steam & Automatic), Minneapolis, Minn.
 Filer & Stowell Co., Home Office, Milwaukee, Wis.
 Garland, M. Co. (the Kline), Bay City, Mich.
LANE MFG. CO., Montpelier, Vt. (See adv. index, end of book)
 Murray, D. J. Mfg. Co., Wausau, Wis.
 Wickes Bros., Saginaw, Mich.

*Log Skidders

RUSSEL WHEEL & FOUNDRY CO., Detroit, Mich. (See adv. index, end of book)

Log Turners

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)
 American Sawmill Machinery Co. ("American"), 114 Liberty, New York. Works: Hackettstown, N. J.
 Challoner's, Geo. Sons Co., Oshkosh, Wis.
 Chandler & Taylor Co., Indianapolis, Ind.
 Curtis & Co. Mfg. Co., St. Louis, Mo.
 Edwards Mfg. Co., Laceyville, Pa.
 Filer & Stowell Co., Home Office, Milwaukee, Wis.
 Garland, M. Co., Bay City, Mich.
 Hamilton, Wm. Mfg. Co. (the Simondson), Peterboro, Ontario, Canada
LANE MFG. CO., Montpelier, Vt. (See adv. index, end of book)
 Moltz, Jacob J., Williamsport, Pa.
 Phoenix Mfg. Co. ("Hills"), Eau Claire, Wis.
 Rockwood Mfg. Co., Indianapolis, Ind.
 Southern Engine & Boiler Works, Jackson, Tenn.
 Trumbull Mfg. Co., Warren, Ohio
 Wheland Machine Works, Chattanooga, Tenn.
 Wickes Bros., Saginaw, Mich.

Logging by Steam

(See Logging Cableways)

Logging Cableways

FLORY, S. MFG. CO., Bangor, Pa. (See adv. index, end of book)
 Hallide-Painter Tramway Co., 46 Fremont, San Francisco, Cal.
LAMBERT HOISTING ENGINE CO., 115 Pionier, Newark, N. J. (See adv. index & branch offices, end of book)
 Leschen, A. & Sons Rope Co. (Overhead), 920 N 1st, St. Louis, Mo.
LIDGERWOOD MFG. CO., 96 Liberty, N. Y., & Old Colony bldg, Chicago. (See adv. index & branch offices, end of book)
N. Y. CABLEWAY & ENGINEERING Co., 1 Rector, New York. (See adv. index, end of book)

Logging Cars

(See Cars, Logging)

Logging Railways

(See Railways, Industrial & Portable)

Logs (Ship)

Nicholson Ship Log Co., Cleveland, O.

Loose Leaf Specialties

American Loose Leaf Co., New York City
 Baker-Vawter Co. (Ledgers), Tribune bldg, Chicago, Ill.
 Benton Mfg. Co., 8 Abingdon sq, New York City
 Conolly, Henry Co., Rochester, N. Y.
 Gaylord Bros., Rochester, N. Y.
 Gerlach, J. H., College Point, N. Y.
 Globe-Wernicke Co., 124 W 8th, Cincinnati, O.
 Gregg, Wm. T., 227 Pearl, New York City
 Heinn Specialty Co. (Ledgers), 19 Erie, Milwaukee, Wis.
 Loxit Loose Leaf Co., 515 Main, Cincinnati, O.
 Kalamazoo Loose Leaf Binder Co., 314 Kalamazoo av., Kalamazoo, Mich.
 Mann, Wm. Co., Philadelphia, Pa.
 Morden Mfg. Corporation, Waterbury, Conn.
 Razall, H. G. Mfg. Co. (Ledgers), 383 Water, Milwaukee, Wis.
 Richmond & Backus Co. (Ledgers), Detroit, Mich.
 Sheppard, C. E. & Co., 87 Maiden lane, New York City
 Sieber & Trussell Mfg. Co., 4001 Laclede av., St. Louis, Mo.
 Smith, Chas. C., Exeter, Neb.
 Tengwall File & Ledger Co., 1410 E Ravenswood, Chicago, Ill.
 Twinlock Co., 95 Duane, New York City
 Wiggins, Jno. B. Co., 14 E Adams, Chicago, Ill.

Lounge Feet

Universal Caster & Foundry Co. (Copper Bronzed), 1170 B'way, New York, & Newark, N. J.

Low Water Alarms for Boilers

(See Alarms, Low Water, for Boilers)

*Lubricants (Automobile)

Canton Lubricator Mfg. Co. (Grease), Canton, O.
 Climax Refining Co., Williamson bldg, Cleveland, O.
DIXON, JOS. CRUCIBLE CO. ("Dixon's" Graphite), Jersey City, N. J. (See adv. index & branch offices, end of book)
 Harris, A. W. Oil Co. ("Harris" Oils & Greases), Providence, R. I.
 National Cement & Rubber Mfg. Co. ("Chain-line" Chain Lubricants), Toledo, O.

Lubricants (Commutator)

(See Compounds, Commutator)

*Lubricants (Gas Engine)

DIXON, JOS. CRUCIBLE CO. ("Dixon's" Graphite, Cylinder, etc.), Jersey City, N. J. (See adv. index & branch offices, end of book)

Lubricants (Graphite)

DIXON, JOS. CRUCIBLE CO., Jersey City, N. J. (See adv. index & branch offices, end of book)

Force Feed Lubricating Co., Milwaukee, Wis.
 Harris, A. W. Oil Co. ("Harris" Graphite Grease), Providence, R. I.
 Monarch Mfg. Co. ("Chaunellene" Graphite Oil), Council Bluffs, Ia.
 Standard Graphite Co., 11 B'way, N. Y.
 United States Graphite Co., 1208 Arch, Phila., Pa.
 U. S. Graphite Co., Saginaw, Mich.

Lubricants (Mica)

United States Mica Mining & Milling Co. (Flake Lubricant), Railway Exchange bldg, Chicago, Ill.
 Warren Mica Lubricant Co., Warren, Pa.

Lubricants (Wire Rope)

(See Wire Rope Coating & Lubricant)

Lubricating Compounds

(See Lubricating Oils & Greases)

Lubricating Oils & Greases CALIFORNIA.

LOS ANGELES—Hercules Oil Refining Co.
 Warren & Bailey Mfg. Co. (Oils)
 SAN FRANCISCO—Cinch, C. G. & Co., 156 King
DIXON, JOS. CRUCIBLE CO., 304 Market. (See adv. index, end of book)
 Fuller, W. P. & Co., Beale & Mission
 Nason, R. N. & Co., 15th & Utah
 N. Y. Lubricating Oil Co., 530 Calif
 Whittier-Coburn Co., Sansome & Market

CONNECTICUT.

HARTFORD—Post & Lester Co. ("Lubro Visco"), 20 Sargeant
 Tracy Oil & Varnish Co., 218 State

GEORGIA.

SAVANNAH—Crew-Levick Co. (Oils)

ILLINOIS.

CHICAGO—Advance Packing & Supply Co. (Autoleum), 55 S Canal, Chicago, Ill.
 Besly, Chas. H. & Co. ("Helmet" Oil), 15 S Clinton
 Champion Oil Co. (Engine, Valve & Car Oils, etc.), W 39th cor Lowe av
 Crescent Linseed Oil Works (Natural Lubricating Oils), 54 W Division
 Crew-Levick Co., 426 Hawthorn
 Dearborn Drug & Chemical Works ("Fort Clyde," "Fort Dearborn," "Fort Douglass," "Fort Sheridan" & "Fort Snelling"), Postal Telegraph bldg
DIXON, JOS. CRUCIBLE CO., Monadnock blk. (See adv. index, end of book)
 Frazer Lubricator Co., 142 Michigan (Greases)
 Keystone Oil & Mfg. Co., 47 E Division
 Magle Bros., 9 N Canal
 Miller, Wm. P. Co., 44 S Water
 Penn Oil & Supply Co., 293 N Branch
 Smith Bros. Oil & Supply Co. ("Banner," "Crown," "Phoenix" & "Zenith"), 301 Fulton
 Speare's, Alden Sons Co., 9 Milwaukee av
 Stuart, D. A. & Co., 447 Illinois
 Sullivan Oil Co., 48 N Wells
 Viscosity Oil Co., 21 River
 Winne, Howard B., 34 W Monroe
 QUINCY—Richardson Lubricating Co. ("Supreme," "Keystone")

INDIANA.

INDIANAPOLIS—Miller Oil & Supply Co.

IOWA.

COUNCIL BLUFFS—Monarch Mfg. Co.
 MARSHALLTOWN—Marshall Oil Co. ("Rex" Ice Oil for Railroad Signals, etc.)

KENTUCKY.

COVINGTON—Standard Oil Co. of Kentucky
 GEORGETOWN—Indian Refining Co. (Oils only)
 LOUISVILLE—Standard Oil Co. of Kentucky

MARYLAND.

BALTIMORE—Crew-Levick Co., 9th cor Pratt Extension
New York Lubricating Oil Co., American Bldg.
Patapsco Oil & Grease Co., 109 Cheapside
Red "C" Oil Mfg. Co., 111 Cheapside
Robinson, Wm. C. & Son Co. ("Autoline")
(Cylinder Engine, Spindle & Dynamo Oils)
Sherwood Bros., Bank & St. & Greases
Tloua Oil Co. (Cylinder Oils, etc.), 220 N Holliday

MASSACHUSETTS.

BOSTON—Bruck Solidified Oil Co., 406 Atlantic
Colonial Lubric. Oil Co., 78 India av
Crane, L. M. & Co., 91 Oliver
Crew-Levick Co., 6 Beacon
Curry Oil & Supply Co., 294 Franklin
DIXON, JOS., CRUCIBLE CO., 101
Tremont. (See adv. index, end of book)
Eagle Oil & Supply Co. ("Eagleluc"), 104 Broad
Fitts, Frank E. Mfg. & Supply Co., 88 Purchase
Jenney Mfg. Co., 8 India
Knowlton Packing Co., 14 L (grease)
MacLean Oil & Supply Co., 63 Long Wharf
Macomber, Henry S. & Co., 150 Milk
Masury, Young & Co. (Wool Oils, Lubricating Greases, etc.), 198 Milk
Speare's, Alden Sons Co., 369 Atlantic av
Tide Water Oil Co., 74 Broad
Vacuum Oil Co., 101 Milk
Valvoline Oil Co., 27 State
Wood, W. A. Co., 373 Atlantic av
FITCHBURG—Snow Flake Axle Grease Co. ("Snow Flake")
NEW BEDFORD—Nye, Wm. F. (Oils Only)
Robinson, Wm. A. Co. Fish Island
WORCESTER—Dixon, Geo. S., 222 Front
Fairbanks & Boynton Co., 49 Vinc
White & Bagley Co. ("Royal Worcester Oil-zum"), 100 Foster

MICHIGAN.

DETROIT—Detroit Refining Co., Majestic bldg
Wiug, J. T. & Co., 19 Woodward av
FLINT—Michigan Paint Co. ("Se-Tab")
SAGINAW—U. S. Graphite Co. ("Grafita"), 1430 Holland av

MINNESOTA.

MINNEAPOLIS—Stahl-Salter Lubricating Co., 983 17th av

MISSOURI.

KANSAS CITY—Keystone Oil Co., 2009 Balto. av
ST. LOUIS—Chappell Oil & Grease Co., 205 N Main
DIXON, JOS., CRUCIBLE CO., Victoria bldg. (See adv. index, end of book)
Northrup Lubricating Oil Co., 308 N Commercial
Waters-Pierce Oil Co., Bank of Commerce bldg

NEW JERSEY.

ELIZABETH—Borne, Schysmer Co. (Oils)
Ellis, W. A. & Son (Oils), Ellis av & Front
JERSEY CITY—**DIXON, JOS., CRUCIBLE CO.** (See adv. index, end of book)
Frazer Lubricator Co., 179 15th
NEWARK—Sheppard, W. S., 21 Lawrence ("Ideal")
Young, Orlando W. (Young's), 180 Frelinghuysen
RAHWAY—Tingley, Chas. O. & Co. (Ball Bearing)

NEW YORK.

ALBANY—Higgins, Robert 30 Orange
Liscomb, Bieker & Godey, 13 Hudson av
Wing, Rob't & Son, 385 B'way
BINGHAMTON—Binghamton Oil Refining Co.
BUFFALO—Enterprise Oil & Supply Co., 2 Oblio
Foote, W. H. & Co., 22 Maurice
MOUNT VERNON—Draper, Walter H. Co., 120 S Railroad

NEW YORK CITY.

Borough of Brooklyn.

BROOKLYN—Miller, Wm. P. Co. ("Victory," "American," "Shields" & "Universal"), 244 Greene
Miller's, Wm. P. Sons ("Excelsior"), 75 3d, L. I. City
Newton, A. E. & Co., 333 Bond

Boroughs of Manhattan & Bronx

NEW YORK—Alexander, H. T. & Co., 17 State
Beldeu, A. G. & Co. (Importers & Exporters), 145 Maiden lane
Benners, E. H. Co., 32 Front
Borne, Scrymser & Co. ("Sillex" & "Colonial" Greases), 135 Front
Bridgman, M. L. (Auto Greases), 10 W 60th
Callahan, Geo. & Co., 129 Front
Chard & Howe, 253 Front
Clarkson & Ford Co. ("Banner"), 55 Water
Cole, G. W. Co. ("Three-in-One"), 141 B'way
Colgan Mfg. & Supply Co. ("Ball"), 42 South, New York
Columbia Lubricants Co. ("Monogram"), 78 Broad
Columbia Refining Co., 32 B'way
Cook's, Adam Sons ("Albany Grease" & Albany Cylinder Oil), 313 West
Crew-Levick Co., 69 Wall
Dingee, M. H. & Co., 254 Water
DIXON, JOS., CRUCIBLE CO., 68
Reade. (See adv. index, end of book)
Fiske Bros. Refining Co. ("Lubroleine"), 15 Old Slip
Frazer Lubricator Co. (Grease), 83 Murray
Galloway, G. W. (Velocity), 322 Pearl
Haggerty Refining Co., 50 South
Hall, G. F. Co. (Mineral Machine Oils, etc.), 211 Centre
Havemeyer Oil Co. ("Havoline"), 80 Broad
Haws, Geo. A. ("Panhard"), 73 Pine
Hsley, Doubleday & Co., 229 Front
Kanter, R. J. Co. ("Horseline" & "E. & K."), 647 Water
Kellogg, E. H. & Co. ("Anti-Corrosive," Cylinder, Dynamo & Spindle, Oils, etc.), 243
Manhattan Oil Co., 51 Front South
Musliner, Jos. G. & Co., 156 Maiden lane
New York Lubricating Oil Co., 116 Broad
New York & New Jersey Lubricant Co. ("Non-Fluid"), 14 Church
Pattberg, F. L., 147 Maiden lane
Pigot, Sayre & Co. ("Aurora"), 135 William
Pulver, Peter & Sons ("Diamond P."), 214 Franklin
Reilly, Jas., Repair & Supply Co. ("Bang's" Brass), 229 West, New York
Smith & Nichols, 48 South
Sonneborn & Son, 262 Pearl
Speare's, Alden Sons Co., 100 William
Standard Oil Co. ("Arctic" Grease), 666 Hudson
Star Lubricating Co. ("Peerless"), 140 W 32d
Stoeckel, R. H., 2449 3d av
STRONG MACHINERY & SUPPLY Co. ("Strong's" Ez-ee Slip, "Strong's" Graphite Grease, 48 Franklin. (See adv. index, end of book)
Utility Co. ("Gre-Solvent"), 332 B'way
Vacuum Oil Co., 29 B'way (Grease)
Valvoline Oil Co. ("Valvoline", "Mobil-oil"), 11 B'way
Winn, Wm. R. (Also Easy Run Axle Grease), 143 Maiden lane
Zibell, J. A., 273 Water
(END OF NEW YORK CITY)
ROCHESTER—Hayner, Norman C. Co. (Cylinder, Engine & Dynamo Oils, etc.)
Vacuum Oil Co., Granite bldg
ROME—Baums Castorine Co.
SYRACUSE—Syracuse Reduction & Mfg. Co. (Grease)

OHIO.

CANTON—Canton Lubricator Mfg. Co.
CINCINNATI—Crystal Oil Co. (axle grease), 927 McLean av
Moore, Chas. H. Oil Co., 641 W Front
Paragon Refining Co., Colerain av & B. & O. S. W. R. R.
Star Oil Co., Brighton Station
Valvoline Oil Co., 1755 Elmoro
CLEVELAND—Atlantic Refining Co., Citizens' bldg
Brooks Oil Co., Bessemer av, at C. & P. R. R.
Climax Refining Co., Williamson bldg
Crystal Oil Refining Co. (Cylinder, Valve & Engine Oils, etc.), Wade bldg
Dieterichs Valve Oleum Oil Co., Cleveland, Ohio
Energine Co. (Autovalve), Cuyaboga bldg
Globe Oil Co., Rose bldg
National Refining Co. (Cylinder, etc.), Rose bldg
Reliance Oil & Grease Co. ("Valve-Olene"), Bratenahl bldg
Standard Oil Co., Standard bldg
Wilson-Clark Co., Caxton bldg
COLUMBUS—Ironsides Co. (For Gearing, etc.), The Wyandotte
Ohio Filler & Shield Co.
TOLEDO—Monarch Mfg. Co. ("Channelene" Grease), Ironville

National Cement & Rubber Mfg. Co.
Paragon Refining Co. (Cylinder Valve & Engine Oils & Greases & Lubricating Compounds)
Sun Oil Co., Woodville & City Line

PENNSYLVANIA.

ALLEGHENY—Miller, A. D. & Sons Co. (Cylinder, Engine & Dynamo Oils & Cup, Journal, Belt & Spouse Greases)
BRADFORD—Emery Mfg. Co. (Steam Refined Hoffman, R. J. Cylinder Stock)
Penn Lubricating Co. of Pa.
CHESTER—Modoc Co., The ("Modoc" Grease)
EMLENTON—Emlement Refining Co. (Cylinder, Engine, Spindle, Dynamo, etc.)
ERIE—Erie Oil Co.
FRANKLIN—Galeua Signal Oil Co. (Coach Engine & Car Oils & "Sibleys" Perfection Valve & Signal Oils)
Marvin Mfg. Co. (Autoleue)
MEADVILLE—Eclipse Lubricating Oil Co.
MILLERSBURG—Metallic Lubricating Oil Co. ("Monarch," "Crown," "Alpha" & "Crescent")
OIL CITY—Crystal Oil Works (Railroads Oils a Specialty)
Germania Refining Co. (Cylinder, Spindle, Engine Valve, etc.)
Penn Refining Co. (Ltd.)
PHILADELPHIA—Atlantic Refining Co., Bourse
Borne, Scrymser Co., 216 N Front bldg
Crew, Levick Co. (Cylinder, Spindle, etc.), 113 Arch
DIXON, JOS., CRUCIBLE CO., 1020
Arch. (See adv. index, end of book)
Donahue, W. J. & Co. ("Peerless" Cylinder Oils, also Dynamo, Engine, etc.), Betz bldg, Phila., Pa.
Hartley, J. M. & Co., 237 N Front
Houghton, E. F. & Co. (Cosmolubric Oil, Vim Cylinder Oils, Lubricating Greases, etc.), 240 W Somerset
Kellom, C. F. ("Invaders"), 128 Arch, Philadelphia, Pa.
Keystone Lubricating Co. (Greases & Compounds & Belt Greases), 20th & Allegheny av
Nero Mfg. & Oil Co., 1543 N Front
Penn Petroleum Co., 117 N 2d (Greases)
Philadelphia Grease Mfg. Co., The Bourse
Sun Co. (The), Real Estate Trust Co. bldg
Sunlight Oil & Gasoline Co. (Cylinder & Lubricating Oils), 217 Arch
Union Petroleum Co. (Cylinder, Engine, Dynamo, Wool & Cordage Oils, Lubricating, Spar & Belt Greases, etc.), 138 S 2d
Zurn, O. F. Co. ("Peerless," "American," "Detroit" Grease, etc.), 23 S 5th
PITTSBURG—**DIXON, JOSEPH, CRUCIBLE CO., Farmers' Bank bldg.** (See adv. index, end of book)
Duquesne Oil & Supply Co., 33d & Smallman
Guffey, J. M. Petroleum Co., Frick bldg
Hamel, J. J. & Co., Iron House bldg
Penna Lubricating Co., 34th & A. V. Ry.
Pittsburg Oil Refining Co. (Cylinder, Spindle, etc.), 425 1st av
Sun Co., Columbia Bank bldg
Waverley Oil Works, 54th and A. V. R. R.
Wilcock, S. M. (Mecca Cylinder, etc.), 54th & A. V. Ry.
READING—Ellis & Cummings
SCOTTDAL—Crescent Mfg. Co. ("Lackawanna" Grease)
SCRANTON—Maloney Oil & Mfg. Co.
TITUSVILLE—Frank Oil Co. (Oils)
Harris Oil & Grease Works (Gas Engine Cylinder Oils, etc.)
WARREN—Cornplanter Refining Co. (Cylinder, Spindle, Engine, etc.)
Seneca Oil Works (Cylinder & Machinery Oils)
United Refining Co.
Warren Mica Lubricant Co. ("Mica")
Warren Refining Co. (Cylinder, Engine, etc.)
Warren Specialty Co. (Cup & Axle Grease)
RHODE ISLAND.
PROVIDENCE—American Oil Co., 180 S Water
Harris, A. W. Oil Co. ("Harris"), 326 S Water
TENNESSEE.
HARRIMAN—The Indian Refining Co.
TEXAS.
HOUSTON—Southwestern Oil Co.
VIRGINIA.
RICHMOND—Armitage Mfg. Co. (Oils)



LUBRICATORS FOR GAS AND GASOLINE ENGINES

GLASS OIL CUPS

NOISELESS WATER HEATERS

EXHAUST INJECTORS

BRASS STRAINERS

MOON AUTOMATIC GREASE CUPS

FUSIBLE PLUGS

BRASS PLUGS, EJECTORS

JET PUMPS, SYPHONS



MANUFACTURED BY

AMERICAN INJECTOR COMPANY

DETROIT, MICH.

WISCONSIN.

MILWAUKEE—Campbell, J. M., 60 3d
Delaney Oil & Lubricant Co., 47 3d
Force Feed Lubricating Co. ("Perfecto,"
Valve Compound, etc.), Iron blk
Halsted, W. D. Oil Co., 318 E Water
O'Neil Oil & Paint Co., 297 E Water
Wadham's Oil Co. ("Badger" & "Cook"
Cylinder), 215 National av
OSHKOSH—Stroud & Thomson (Dealers')

Lubricators (Air Compressor)

AMERICAN WELL WORKS, Aurora,
Ill. (See adv. index & branch offices, end of
book)

American Lubricator Co. (Improved), Detroit,
Mich.

Comstock Engine Co. ("Graphoil" Graphite) 49
Clymer, Brooklyn, N. Y.

Detroit Shipbuilding Co. (Brass Dept.), Detroit,
Mich.

LUNKENHEIMER CO. ("Vulcan
Banner"), General Offices & Works, Beek-
man & Waverly, Cincinnati, O. (See adv.
index & branch offices, end of book)

Michigan Lubricator Co. ("Michigan"), Detroit,
Mich.

Powell, Wm. Co., 2529 Spring Grove av., Cin-
cinnati, O.

SCHAEFFER & BUDENBERG MFG.
Co., Foxboro, Mass. (See adv. index &
branch offices, end of book)

WILLIAMS, D. T. VALVE CO., 904
B'way, Cincinnati, O. (See adv. on follow-
ing page)

*Lubricators (Automobile)

LUNKENHEIMER CO. ("Auto"), Gen-
eral Offices & Works, Beekman & Waverly,
Cincinnati, O. (See adv. index & branch of-
fices, end of book)

PENBERTHY INJECTOR CO. ("Pen-
berthy"), 346 Holden av., Detroit, Mich. (See
adv. index, end of book)

SCHAEFFER & BUDENBERG MFG.
Co., Foxboro, Mass. (See adv. index &
branch offices, end of book)

STANDARD GAUGE MFG. CO., Syra-
cuse, N. Y. (See adv. index & branch offices,
end of book)

Lubricators (Candle)

(For Shafting & Loose Pulleys, etc.)

Detroit Lubricator Co., Detroit, Mich.

Norris, T. A. Co., 43 S Jefferson, Chicago, Ill.
(end of book)

SWAIN LUBRICATOR CO. ("Swain"),
cor. Lake & S Water, Chicago, Ill. (See
adv. in next column)

Lubricators (Car Journal)

Armstrong Oil Co., S 31st, below Chestnut,
Phila., Pa.

Axle Lubricator Co., Savannah, Ga.

Harrison-Williams Co. ("Harrison"), Toledo, O.

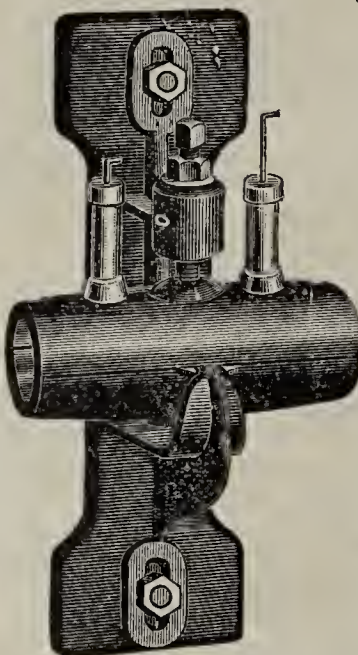
Railway Journal Lubricating Co. ("Economy"),
26 Cortlandt, New York

Railway Journal Lubricator Co. The ("Ideal"),
Mercantile Library bldg, Cincinnati, O.

Standard Automatic Lubricator Co., Land
Title bldg, Phila., Pa.

Swain Lubricator

For Shafting and Loose Pulleys



Showing Shafting Lubricator
attached.

Where economy, convenience and cleanliness
are considered, the Swain Lubricator meets the
most exacting demands.

USED BY

American Bridge Co.

American Sheet & Tin Plate Co.

Armour & Co.

City of Chicago.

Chicago & Northwestern Railway.

Chicago & Rock Island & Pacific Ry.

Illinois Steel Co.

International Harvester Co.

Pullman Co.

Otis Elevator Co.

WE ALSO MAKE METALLIC PACKING.

See our advertisement on page 802.

Swain Lubricator Co.

Lake and South Water Streets
CHICAGO, ILL.

consists of
Brass Cup
and Candle of
solid substance
composed of
best high
gravity oils
and the finest
petroleum pro-
ducts.

It is entirely
automatic, re-
quiring abso-
lutely no at-
tention after
inserting lub-
ricating Can-
dle, as the
indicating rod
shows the
amount of ma-
terial in the
holder at a
glance from the
floor.

It works
only when the
machine is in
operation, and
allows no
waste from
dripping or
evaporation.

Lubricators (Electric Motor)

Jolt Lubricator Co., Providence, R. I.
Standard Automatic Lubricator Co., Land
Title bldg, Phila., Pa.

Lubricators (Force Feed)

Charter & Co., 305 Dearborn, Chicago, Ill.
Climax Lubricator Co., 3 Appleton, Boston,
Mass.

Comstock Engine Co. ("Graphoil" Steam Cyl-
inder Graphite Cup), 49 Clymer, Brooklyn,
N. Y.

Detroit Lubricator Co., Detroit, Mich.

Dodge Lubricator Co., 36 Columbus av, Boston,
Mass.

Greene, Tweed & Co. ("Rochester"), 109 Duane,
New York

Hatcher Auto Parts Co. (Hand), Cleveland, O.

Hills-McCanna Co., 128 E Kinzie, Chicago, Ill.

Kinsey Mfg. Co. ("Kinwood" or "Kehoe"),
Dayton, O.

Lonergan, J. E. & Co. ("Keystone," Hand), 211
Race, Philadelphia, Pa.

LUNKENHEIMER CO., General Of-
fices & Works, Beekman & Waverly, Cin-
cinnati, O. (See adv. index & branch offices,
end of book)

McCord & Co. ("McCanna"), Old Colony bldg,
Chicago, Ill.

Madison-Kipp Lubricator Co. ("Kip" Valveless),
Madison, Wis.

Manzel Bros., 317 Babcock, Buffalo, N. Y.

Mason-Kipp Mfg. Co., Madison, Wis.

Michigan Lubricator Co. (Hand), Detroit, Mich.

Milwaukee Metal Working Co. ("Werder"),
Montgomery bldg, Milwaukee, Wis.

National Sewing Machine Co. ("Crandall"),
Belvidere, Ill.

Phenix Metallic Packing Co., 7 S Jefferson,
Chicago, Ill.

Powell, William Co. (Hand), 2529 Spring Grove
av, Cincinnati, O.

Sherwood Mfg. Co. ("Hart"), Buffalo, N. Y.

Sight Feed Oil Pump Co. ("Richardson"), Mil-
waukee, Wis.

Steel Ball Co. ("Hill"), 832 Austin av, Chicago,

Sterling Lubricator Co., Rochester, N. Y. Ill.

Lubricators (Gas Engine)

AMERICAN INJECTOR CO., cor. Con-
gress & Seventh, Detroit, Mich. See adv.
above)

American Lubricator Co. (Improved), Detroit,
Mich.

Eagle Brass Works (Glass Body Steam Fitters),
Detroit, Mich.

LUNKENHEIMER CO. ("Paragon,"
"Premier," "Mars," "Vulcan" & "Ban-
ner" & Multiple Feed), General Offices &
Works, Beekman & Waverly, Cincinnati, O.
(See adv. index & branch offices, end of book)

Manzel Bros., 319 Babcock, Buffalo, N. Y.

Michigan Lubricator Co. ("Michigan," Sight
Feed, Gas, Naphtha & Gasoline), Detroit,
Mich.

OIL WELL SUPPLY CO., 215 Water,
Pittsburg, Pa. (See adv. index, end of book)

PENBERTHY INJECTOR CO. ("Pen-
berthy"), 346 Holden av, Detroit, Mich. (See
adv. index, end of book)

Powell, Wm. Co., 2529 Spring Grove av, Cincinnati, O.
SCHAEFFER & BUDENBERG MFG. Co., Foxboro, Mass. (See adv. index & branch offices, end of book)

Lubricators (Graphite)

Campbell Graphite Lubricator Co. ("Automatic Feeding"), Little Rock, Ark.
 Comstock Engine Co. ("The Locomotive Graphite Cup" for Graphite & Oil Combined), 49 Clymer, Brooklyn, N. Y.
LUNKENHEIMER CO., General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

*Lubricators (Grease & Oil Cup)

(See also Lubricators, Oil & Grease Cup)

WILLIAMS, D. T. VALVE CO., Cincinnati, O. (See adv. below)

Lubricators (Locomotive)

Comstock Engine Co. ("Graphoil"), 49 Clymer, Brooklyn, N. Y.
 Crescent Mfg. Co. ("Lackawanna"), Scottdale, Pa.
 Detroit Lubricator Co. ("Detroit" Bullseye Pattern), Hodges' bldg, Detroit, Mich.
 Detroit Shipbuilding Co. (Brass Dept.), Detroit, Mich.
 Franklin Railway Supply Co. (Grease, for Driving Box, etc.), Franklin, Pa.
 Hammett, H.H. G., 476 8th, Troy, N. Y.
LUNKENHEIMER CO., General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)
 Manzel Bros., 319 Babcock, Buffalo, N. Y.
 Michigan Lubricator Co., Detroit, Mich.
 Nathan Mfg. Co., 92 Liberty, N. Y., & 84 Van Buren, Chicago, Ill.
 Phila. Lubricator & Mfg. Co. (Inc.) ("Philadelphia"), Land Title bldg, Philadelphia, Pa.
 Powell, Wm. Co., 2529 Spring Grove av, Cincinnati, O.
SCHAEFFER & BUDENBERG MFG. Co., Foxboro, Mass. (See adv. index & branch offices, end of book)
 Sterling Lubricator Co. (Force Feed), Rochester, N. Y.

WILLIAMS, D. T. VALVE CO., Cincinnati, O. (See adv. below)

Lubricators (Locomotive Box)

Kent Mfg. Co., Kent, O.
 Railway Journal Lubricator Co., Mercantile Library bldg, Cincinnati, O.

Lubricators (Multiple Oiling)

Detroit Lubricator Co., Detroit, Mich.
 Essex, G. B. Brass Co. ("Standard"), Detroit, Mich.
 Hall Manufacturing Co., 62 Cliff, New York
 Hussey Drop Forge & Mfg. Co., Axtell opp. Osage, Cleveland, O.
 Locke Regulator Co. ("Perfection"), Salem, Mass.
 Lonergan, J. E. & Co., 211 Race, Phila., Pa.
LUNKENHEIMER CO., General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)
 Michigan Lubricator Co., Detroit, Mich.
 Nathan Manufacturing Co., 92 Liberty, New York
 Phillips Co., 164 High, Boston, Mass.
 Sherwood Manufacturing Co., Buffalo, N. Y.
 Sight Feed Oil Pump Co. ("Richardson"), Milwaukee, Wis.

Lubricators (Oil & Grease Cup)

Albany Lubricating Compound & Cup Co. ("Perfect" Grease Cups only), 313 West, N. Y.
 Allen, W. D. Mfg. Co. ("Bowes," "Czar," "Columbia," "Gibbs," & "Peerless"), 151 Lake, Chicago, Ill.
AMERICAN BRAKE SHOE & FOUNDRY Co. (Cast Steel), 170 B'way, New York.
 Works & Sales Office, Chicago Heights, Ill. (See adv. index & branch offices, end of book)
 American General Engineering Co. ("Reliable" Oil Cup), 253 B'way, New York
AMERICAN INJECTOR CO. (Glass Oil Cups, Brass Grease Cups; also Compression Grease Cups, Moon Automatic), Cor. Congress & 7th, Detroit, Mich. (See adv. on preceding page)
 American Lubricator Co. ("Pearl," "Banner," "Laurel," "Admiral," "Acme," "Buckeye," "Navy," "Ideal," "Superior," "Model," Glass Body for Oil & "Marvel" &

"Duplex," all Brass for Oil, "Lion," "Challenge," "Garland" & "Art," all Brass for Grease), Detroit, Mich.

Bay State Stamping Co. (the Bennett Self-Closing), Worcester, Mass.
 Belfield, H. & Co., 435 N. Broad, Phila., Pa.
 Besly, Chas. H. & Co. ("Perfection," "Bonanza" Oil Cups & "Helmet" Cast Iron Oil Cups), 15 S. Clinton, Chicago, Ill.
 Bowen Mfg. Co. ("Empress," for Machinery, etc.), Auburn, N. Y.
 Buckeye Iron & Brass Works, Dayton, O.
 Bushnell, John S. & Co. ("McKenzie"), 123 Liberty, New York
 Byrne-Kingston & Co. ("Kingston"), Kokomo, Ind.
 Consolidated Fruit Jar Co. (Brass), New Brunswick, N. J., & 290 B'way, New York
 Crane Co., Est. 1855 (Brass & Copper), 519 S. Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
 Crescent Mfg. Co. ("Lackawanna" Automatic Grease Cups Only), Scottdale, Pa.
CROSBY STEAM GAGE & VALVE CO., 97 Oliver, Boston, Mass. (See adv. index & branch offices, end of book)
 Detroit Lubricator Co. (Brass, "Detroit"), Hodges bldg, Detroit, Mich.
 Detroit Shipbuilding Co. (Brass Dept.), (Brass "McCoy," "Erie," "Huron," "Majestic," "Quaker," "Kirby," "Perfection," "Superior," "Eagle" & "Mutual"), Detroit, Mich.
 Eagle Brass Works (Plain & Glass Body Oil Cups & Plain Screw Feed & Spring Compression Grease Cups), Detroit, Mich.
 Eastwood Wire Mfg. Co., Belleville, N. J.
 Eaton, Cole & Burnham Co., Bridgeport, Conn.
 Essex, G. B. Brass Co., Detroit, Mich.
 Eynon-Evans Mfg. Co. (Railroad Oil Cups), 1519 Clearfield, Phila., Pa.
 Forest City Brass Wks. ("Kennedy," Brass), Cleveland, O.
 France Packing Co. (Inc.), 6512 State road, Phila., Pa.
 Globe Brass Co. (Brass), 13 Macomb, Detroit, Mich.
 Hall Mfg. Co., 62 Cliff, New York
 Hatcher Auto Parts Co. ("B.-H."), 32 Columbus, Cleveland, O.
 Haydenville Co., Haydenville, Mass.
 Hills-McCanna Co., 128 E Kinzie, Chicago, Ill.
 Holland, William, 122 S Jefferson, Chicago, Ill.
 Jarecki Mfg. Co. ("Brass"), Erie, Pa.
 Kelly & Jones Co. (Brass), 135 Water, Pittsburgh, Pa.



DO YOU USE OIL or GREASE CUPS?

If you do you should write for this little booklet, as it illustrates and describes our entire line of lubricating specialties.

The workmanship and material are the best, and they are made by experts who have had experience in this line, covering a period of more than a score of years.

Consult us on lubrication matters—one of Williams Lubricating Devices may save you a lot of trouble and expense, also enable you to forget many ever present engine room ills.

A postal will bring this booklet by return mail. Want a copy?

THE D. T. WILLIAMS VALVE COMPANY,
 CINCINNATI, OHIO, U. S. A.

Keystone Brass Co. ("Cyclone" Brass), 1017 Peach, Erie, Pa.
 Kinscy & Mahler Co., Peoria, Ill.
 Knowlton Packing Co. ("Ellis"), 14 L, S Boston, Mass.
 Koehler Bros. (Moon & Neverslip Grease Cups), Saginaw, Mich.
 Lee Mfg. Co., So. Park, Port Huron, Mich.
 Locke Regulator Co. ("Brute"), Salem, Mass.
 Lonergan, Jas. E. & Co., 211 Race, Phila., Pa.
LUNKENHEIMER CO. ("Pioneer,"
 "Victor," "Sentinel," "Crown," "Pres-
 sure," "Reserve," "Royal," "Miami,"
 "Champion," "Automatic," "Locomotive,"
 "Spring Lid," & "Pulley" Oil Cups &
 "Ideal," "Lion," "Jewell," "Marine,"
 "Tiger," "Gem," "Surety," "Positive,"
 "Rex," "Apollo," "Steel" Grease Cups),
 General offices & Works, Waverly & Beek-
 man, Cincinnati, O. (See adv. index &
 branch offices, end of book)
 McNab & Harlin Mfg. Co. ("Stauffer," "Gee,"
 "Broughtons," "Boyden" & "Yale"), 56
 John, New York
 Michigan Lubricator Co. ("Michigan," "Common
 Sense," "Improved Common Sense," Spring
 Compression, Improved Spring Compression,
 Loose Wire Crank Pin, "Reliable Plain,"
 "Sargent" & "Guardman"), Detroit, Mich.
 Nash Bros. & Co. (the Michigan Spring Com-
 pression Grease), Ogdensburg, N. Y.
 Nathan Mfg. Co. ("Dreyfuss" Brass), 92 Lib-
 erty, New York
 National Brass & Metal Co., 256 S 3d av,
 Minneapolis, Minn.
 Nolte Brass Co. (Plain Brass Oil Cups only),
 Springfield, O.
 Nunn Brass Works (Inc.), 17 Wentworth, Ro-
 chester, N. Y.
 Ohio Brass Co. (Brass & Glass), Mansfield, O.
**PENBERTHY INJECTOR CO. ("Pen-
 berthy"),** 346 Holden av, Detroit, Mich.
 (See adv. index, end of book)
 Perkes, Charles, 627 Arch, Philadelphia, Pa.
 Philadelphia Lubricator & Mfg. Co. (Inc.)
 ("Philadelphia"), Land Title bldg, Phila.,
 Pa.
 Phillips Co. ("Standard" Brass), 88 Broad, Bos-
 ton, Mass.
 Phillips, W. P., Sudbury bldg, Boston, Mass.
 Pioneer Brass Works, Indianapolis, Ind.
 Powell, Wm. Co. ("Coin," "Colonial," "Mec-
 ca," "Parole," "Petrel," "Pilgrim," "Phoe-
 nix," "Planet," "Pinnacle," "Pointer,"
 "Pluto," "Picket," "Puritan," "Polaris" &
 "Vanguard"), 2525 Spring Grove av, Cincin-
 nati, O.
 Pulver, Peter & Sons, 214 Franklin, New York
 Queen City Brass & Iron Works (Brass), Cin-
 cinnati, O.
 Reed Mfg. Co. ("Economy" Oil Cups), Erie, Pa.
 Reilly, Jas., Repair & Supply Co. (Bangs Brass),
 229 West, New York
 Ruppenthal, J. & Son (Grease), 1602 N B'way,
 St. Louis, Mo.
 Selbert Cylinder Oil Cup Co. (Brass), 53 Ol-
 iver, Boston, Mass.
 Sherwood Mfg. Co. ("Buffalo," "Nagara" &
 "Clarks"), Buffalo, N. Y.
 Sims Co. (Crank Pin Oil Cups), Erie, Pa.
 Springfield Brass Co. (Brass), Springfield, O.
 Stahl-Salter Lubricating Co., 983 17th av, Min-
 neapolis, Minn.
**STANDARD GAUGE MFG. CO., Syra-
 cuse, N. Y.** (See adv. index & branch offices,
 end of book)
 Star Brass Mfg. Co., 108 E Dedham, Boston,
 Mass.
SWAIN LUBRICATOR CO. ("Swain"),
 cor Lake & S Water, Chicago, Ill. (See
 adv. index, end of book)
 Swift Lubricator Co. ("IXL," "Sachem,"
 "Star" & "Sancho," Glass & Brass Oil
 Cups & Compression Grease Cups), Elmira,
 Thiem & Co., St. Paul, Minn. N. Y.
 Thomas Brass & Iron Co. (Brass), Waukegan,
 Ill.
 Tucker, W. W. & C. F. (Self-closing Rotary
 Head Cup), Hartford, Conn.
 Wadhams Oil & Grease Co. (Wadhams Grease
 Cups), 215 National av, Milwaukee, Wis.
 Wilkinson, W. H. & Co., West Medway, Mass.

Lubricators (Pneumatic Tool)

Carron, A. M. & Co. ("Pittsburg"), 200 Penn av,
 Pittsburg, Pa.

Lubricators (Oil Pump)

American Lubricator Co. ("Peerless" Auto-
 matic, for Steam Automobiles; Also "Ideal"
 Glass Body & "Superior," all Brass), De-
 troit, Mich.
 Bonar, Jas. & Co., Frick bldg, Pittsburg, Pa.
 Detroit Lubricator Co. ("Detroit"), Hodges
 bldg, Detroit, Mich.

Detroit Shipbuilding Co. (Brass Dept.), Detroit,
 Mich.
 Essex, G. B. Brass Co., Detroit, Mich.
 Eynon-Evans Mfg. Co., 1519 Clearfield, Phila.,
 Farnan Brass Works, Cleveland, O. Pa.
 Greene, Tweedy & Co., 17 Murray, N. Y.
 Hills, McCanna Co., 128 E Kintzie, Chicago
 Jarecki Mfg. Co., Erie, Pa., & Pittsburg, Pa.
 Lonergan, J. E. & Co. ("Calumet & Hecla"
 Pattern, etc.), 211 Race, Phila., Pa.
**LUNKENHEIMER CO. ("Auto," "AI-
 pha," "Universal," "Marvel," "Imperial,"
 & "King"),** General Offices & Works, Beek-
 man & Waverly, Cincinnati, O. (See adv.
 index & branch offices, end of book)
 Madison-Kipp Lubricator Co. ("Kipp" Valve-
 less), Madison, Wis.
 Manzel Bros. ("Manzel" Sight Feed Auto-
 matic), 319 Babcock, Buffalo, N. Y.
 Michigan Lubricator Co. ("Michigan"), Detroit,
 Mich.
 Nugent, Wm. W. & Co. ("McCune" Anti
 Packed Force, Sight Feed Cylinder Pumps),
 18 W Randolph, Chicago, Ill.
 Pearl Mfg. Co. ("Dietz" Oil), Buffalo, N. Y.
**PENBERTHY INJECTOR CO. ("Pen-
 berthy"),** 346 Holden av, Detroit, Mich.
 (See adv. index, end of book)
 Phenix Metallic Packing Co. (Automatic), 7 S
 Jefferson, Chicago
 Powell, Wm. Co., 2529 Spring Grove av, Cin-
 nati, O.
**SCHAEFFER & BUDENBERG MFG.
 Co.** (Glass Body), Foxboro, Mass. (See adv.
 index & branch offices, end of book)
 Schutte & Koerting Co., 12th & Thompson,
 Phila., Pa.
 Selbert Cylinder Oil Cup Co., 53 Oliver, Boston,
 Sherwood Mfg. Co. ("Felthousen") Hand, Cyl-
 nder & Automatic Sight Feed), Buffalo,
 N. Y.
 Sight Feed Oil Pump Co. (The "Richardson"
 Automatic Sight Feed), Milwaukee, Wis.
 Sterling Lubricator Co. (Force Feed), Rochester,
 N. Y.

Lubricators (Sight Feed)

American Lubricator Co. ("Standard,"
 "Globe," "Imperial," "Perfection," "Re-
 liable" & "Crescent," Glass Body), De-
 troit, Mich.
 Crane Co. (Est. 1855), 519 S Canal, Chicago,
 Ill. (See adv. index & branch offices, end of
 book)
 Crescent Mfg. Co. ("Lackawanna," for Station-
 ary Locomotive & Marine Engines), Scotts-
 dale, Pa.
**CROSBY STEAM GAGE & VALVE
 Co.,** 95 Oliver, Boston, Mass. (See adv. in-
 dex & branch offices, end of book)
 Detroit Lubricator Co. ("Detroit") Hodges bldg,
 Detroit, Mich.
 Eastwood Wire Mfg. Co. ("Couse"), Belleville,
 N. J.
 Essex, G. B. Brass Co., Detroit, Mich.
 Hall Mfg. Co., 62 Cliff, New York
 Handlan-Buck Mfg. Co. ("Dibble"), 212 N 3d,
 St. Louis, Mo.
 Jarecki Mfg. Co. ("Erle"), Erie, Pa.
 Kelly & Jones Co., Pittsburg, Pa. Works:
 Greensburg, Pa.
 Lonergan, J. E. & Co., 211 Race, Phila., Pa.
**LUNKENHEIMER CO., General Of-
 fices & Works,** Beekman & Waverly, Cin-
 cinnati, O. (See adv. index & branch offices,
 end of book)
 McNab & Harlin Mfg. Co., 56 John, New York
 McRae & Roberts Co. ("The Acme"), 227 Camp
 bell av, Detroit, Mich.
 Manzel Bros., 319 Babcock, Buffalo, N. Y.
 Michigan Lubricator Co. ("Michigan," "Cy-
 clone," "Rural," etc.), Detroit, Mich.
 Nathan Mfg. Co., 92 Liberty, New York
 Ohio Brass Co., Mansfield, O.
 Ohio Lubricator Co. ("King"), Steubenville, O.
 Philadelphia Lubricator & Mfg. Co. (Inc.),
 ("Philadelphia"), Land Title bldg, Phila.,
 Pa.
 Pittsburg Brass Mfg. Co., 107 Wood, Pittsburg,
 Pa.
 Powell, Wm. Co., 2529 Spring Grove av, Cin-
 cinnati, O.
**SCHAEFFER & BUDENBERG MFG.
 Co.,** Foxboro, Mass. (See adv. index &
 branch offices, end of book)
 Selbert Cylinder Oil Cup Co., 53 Oliver, Boston,
 Mass.
 Sherwood Mfg. Co. ("Buffalo"), Buffalo, N. Y.
 Sight Feed Oil Pump Co. ("Richardson") Auto-
 matic Sight Feed Oil Pump), Milwaukee,
 Wis.
 Sterling Lubricator Co., Rochester, N. Y.
 Swift Lubricator Co., Elmira, N. Y.
 Thomas Brass & Iron Co., Waukegan, Ill.
 Wilkinson, W. H. & Co., West Medway, Mass.

*Lubricators (Steam Engine)

LUNKENHEIMER CO. ("Senior,"
 "Junior," "Graphite," "Major" & Mon-
 arch"), General Offices & Works, Beekman &
 Waverly, Cincinnati, O. (See adv. index &
 branch offices, end of book)

*Lug Hooks or Timber Carriers

CARPENTER, GEO. B. & CO., 202 S
 Water, Chicago, Ill. (See adv. index, end
 of book)

*Lugs (Hinge)

RIESECK, P. (For Fire Proof Doors
 & Shutters), Allegheny av & Rebecca, Alle-
 gheny, Pa. (See adv. index, end of book)

Lugs (Tank)

Baker Mfg. Co., Evansville, Wis.
**FAIRBANKS, MORSE & CO., (Rivet-
 less & Eclipse Steel),** Franklin & Monroe,
 Chicago, Ill. (See adv. index & branch of-
 fices, end of book)
 Girard Iron Works, 22d & Master, Phila., Pa.
 Gowanda Agricultural Works (Silo Lugs), Go-
 wanda, N. Y.
 Lanz, M. & Sons, 101 S 29th, Pittsburg, Pa.
 Pacific Tank Co., San Francisco & Los Angeles,
 Racine Tank Lug Co., Racine, Wis. Cal.
 Tecktonius, E. C. Mfg. Co. (Malleable Iron),
 Racine, Wis.

Lumber (Creosoted)

(See Creosoting Works)

Lumber Drying Kilns

(See Kiln Drying Apparatus)

Lumber (Kyanized)

Allen, Otis & Son, Lowell, Mass.
 Berlin Mills Co., Portland, Me.

*Lumber Leads

**DIXON, JOS. CRUCIBLE CO. ("Dix-
 on's,"** for Green or Dry Lumber), Jersey
 City, N. J. (See adv. index & branch offices,
 end of book)

*Lumber Mfrs. (Cypress)

**CYPRESS LUMBER CO. (Lumber &
 Shingle, Tanks & Vats),** 88 Broad, Boston,
 Mass., & Apalachicola, Fla. (See adv. in-
 dex, end of book)
**STEARNS, A. T. LUMBER CO., Nepon-
 set, Boston, Mass.** (See adv. on following
 page)

Lumber Mfrs. & Wholesale Deal- ers

Star (*) denotes Manufacturers.
 Dagger (†) denotes Inspectors & Shippers.
 Section Mark (§) denotes Wholesale Dealers.
 This is not an absolutely complete list of
 Lumber Manufacturers & Wholesalers. It is
 compiled for those who want to purchase lum-
 ber.

ALABAMA.

ALAMEDA—Alameda Mill Co. (Saw Mill)
 ALBERTVILLE—Curry, W. W. (Saw Mill)
 ANDALUSIA—Bonifay, R. A. (Lumber & Tim-
 ber)
 Prestwood, Jas. A. (Saw Mill)
 ANNISTON—Ray, J. W. (Saw Mill)
 ASHFORD—Felden, J. D.
 Forrester, B. L.
 Forrester, T. J.
 Mathews, A. D.
 Mathews, Wm. & Son (near)
 Parker, T. J.
 Pansy Lumber Co.
 Pierce Lumber Co.
 ATMORE—*Carney, W. M. Mill Co. (L. L. Yel-
 low Pine)
 *Steadham J. V. (Est. of)
 BELLAMY—Allison Lumber Co. (Saw Mill)
 Star Lumber Co. (Saw Mill)
 BESEMER—Edwards, G. B.
 BILLINGSLEY—Carter Lumber Co. (Saw Mill)

BIRMINGHAM—§Alabama Lumber Co.
 *American Lumber & Export Co. (Yellow Pine)
 *Clear Creek Lumber Co.
 §Farrior, J. W. & Co.
 §Iron City Lumber Co.
 *Johnston, T. H. & Co. (Yellow Pine)
 *Kaul Lumber Co. (Saw Mill, Yellow Pine, etc.)
 *Lathrop Lumber Co. (Yellow Pine)
 Standard Lumber & Mfg. Co.
 Wood, Dickerson Lumber Co.
BON SECOUR—*Lyons, Swift & Co. (Lumber & Saw Mill)
BRANTLEY—*Cooper Lumber Co. (Lumber & Saw Mill)
 Rodgers, W. C. & Son (Saw Mill)
BREWTON—*Blacksher-Miller Lumber Co. (Yellow Pine)
 *Cedar Creek Mill Co. (Yellow Pine)
 Lovelace Lumber Co.
BROOKLYN—Amos, E. N. (Saw Mill)
CAMDEN—Jones, S. L. & C. W. (Saw Mill)
CARBON HILL—Guthrie, B. B. (Saw Mill)
CARROLLTON—Kirkpatrick Wm. (Saw Mill)
CHAPMAN—Smith, W. T. Lumber Co. (Yellow Pine)
CHILDERSBERG—§Oden & Elliot
CLANTON—Hopkins, Latham Lumber Co.
CLARKSVILLE—Coats, Jas. & Son (Saw Mill)
CLAYTON—Robertson, W. H. (Saw Mill)
COHASSET—*Foshee Bros. & Co. (Lumber & Saw Mill)
COOKS SPRINGS—*Cook, Lafayette (Yellow Pine)
COWARTS—*Forrester, B. A. & Bro. (Lumber & Saw Mill)
CREOLA—*Creola Lumber Co. (Yellow Pine)
 Hatter, T. A. & Son (Saw Mill)
CYPRESS—Cypress Hardwood Co.
DADEVILLE—Turner, J. F. (Saw Mill)
DEATSVILLE—Goolsby, T. F. & W. W. (Saw Mills, A. D. (Saw Mill))
DECATUR—Jervis Lumber Co.
DELCHAMPS—Climax Lumber Co.
DEMOPOLIS—Wood, H. L. Lumber Co.
DOLIVE—*Hand Lumber Co. (Yellow Pine)
DUNHAM—*Dunham Lumber Co. (Yellow Pine)
EVA—Stewart, Wiley (Saw Mill)
EVERGREEN—Smith Bros. (Saw Mill)
FAKLER—Jones Lumber Co. (Saw Mill)
FEAGIN—Feagin, F. K. (Saw Mill)
FLORALA—*Florala Saw Mill Co. (Yellow Lake Lumber Co. (Yellow Pine))
FRUITDALE—*Fruitdale Lumber Co.
FLOMATON—*Walker, E. (Yellow Pine)
FULTON—*Scotch Lumber Co. (Yellow Pine)
GADSEN—*Kyle Lumber Co. (Yellow Pine)
GAINESVILLE—Long & Patterson (Saw Mill)
GANTT—Dunn & McClain (Saw Mill)
 Gantt, D. B. (Saw Mill)
GENEVA—Graves, Tatom & Co. (Loggers, etc.)
GORDON—Hearn & Holt
GUBLEY—*Roberts, W. T. (Hardwood)
HOLLYWOOD—Alabama Cedar Co.
HUGGINS—Holley, G. L. & Son (Saw Mill)
HULL—*Bates, J. T. Lumber Co. (Lumber)
HUNTSVILLE—Huntsville Hoop & Heading Co. (Coiled Slack Barrel Hoops, etc.)
 Huntsville Lumber Co.
JACKSON—*Zimmerman, C. W. Mfg. Co. (Yellow Pine)
LAMISON—Wilcox, C. F. (Saw Mill)
LOCKHART—*Jackson Lumber Co. (Yellow Pine)
LUVERNE—Howard, W. D. (Saw Mill)
McWILLIAMS—*McWilliams Lumber Co. (Lumber & Saw Mill)

MARBURY—*Marbury Lumber Co. (Yellow Pine)
MARLOW—Grove, J. W. (Saw Mill)
MASON—Dixon, N. H. (Saw Mill)
MAUVILLE—McLean, D. N. (Saw Mill)
MELLOW VALLEY—Woods, S. H. (Saw Mill)
MOBILE—*Alabama Hardwood Lumber Co.
 *Alabama Hardwood Mfg. Co.
 American Lumber Co.
 Bay City Lumber Co. (L.-L. Yellow Pine)
 *Blackbar Co. (Yellow Pine & Saw Mill)
 *Cameron, J. D. & Son Co. (Lumber & Shingles)
 Hieronymous Bros. (Saw Mill)
 Horn & Vaughan
 *Hubbard Bros. (Pitch Pine Exporters)
 Hunter, Benn & Co. (Exporters)
 Martin, Taylor Timber Co. (Lumber & Timber)
 Mobile Shingle & Mfg. Co. (Shingles, etc.)
 §Syson, W. K. & Co. (Pitch Pine, etc.)
 Verona Lumber Co.
MONTGOMERY—*Alabama Hardwood Mfg. Co.
 *Alabama Lumber Co. (Lath & Shingles)
 Conecuh Pine Lumber & Mfg. Co.
 Flowers, E. P.
 *Montgomery Lumber & Mfg. Co. (Hardwood Lumber & Flooring, Ceiling, Finish-
 Nixon, Robt. Co. ing, Moulding, etc.)
 *Southern Pine Lumber Co. (Yellow Pine)
 Vesuvius Lumber Co.
NEW DECATUR—Payne, E. C.
OAK GROVE—*Davis, M. L. (Yellow Pine)
POLLARD—Lindsey Lumber Co.
RICHBURG—*Henderson-Boyd Lumber Co. (Yellow Pine)
RIVERSIDE—*Lathrop-Hatten Lumber Co. (Yellow Pine)
SANFORD—*Henderson Lumber Co. (Yellow Pine)
STOCKTON—*McMillan, T. M. Cypress)
 Stockton Lumber Co.
SUMTER—*Sumter Lumber Co. (Yellow Pine)
VINEGAR BEND—*Vinegar Bend Lumber Co. (Yellow Pine)
WAGAR—*McClure Lumber Co. (Yellow Pine)
WHITEHALL—Gordon, Frank (Saw Mill)
WILSONVILLE—*Jackson, J. C. & Sons (Yellow Pine)

ARIZONA

FLAGSTAFF—*Arizona Lumber & Timber Co.
NOGALES—§Roy & Titcomb
PHOENIX—De Mund Lumber Co.
 Ryder, H. W. (Saw Mill)
 Valley Lumber Co.
TUCSON—Corbett J. Knox Lumber Co.
 Tucson Lumber Co.

ARKANSAS.

ABBOTT—*Ft. Smith Lumber Co. (Yellow Pine)
ASHDOWN—*Bowles, J. R.
BEARDEN—*Cotton Belt Lumber Co. (Yellow Pine)
BEIRNE—Clark, J. G. (Saw Mill)
BLACK ROCK—*Black Rock Lumber & Co-op-
 age Co.
COONING—*Black & Arnold Lumber Co.
 Weeden, A. M. & Co. (Saw Mill)
CROSSETT—*Crossett Lumber Co. (Yellow Pine)
DALEVILLE—*Arkadelphia Lumber Co. (Yellow Pine)
DELIGHT—*Key R. B. F. (Yellow Pine)
DEQUEEN—*Williamson Bros. (Yellow Pine)
DRAUGHON—*Saline River Lumber Co. (Yellow Pine)

EAGLE MILLS—*Eagle Lumber Co. (Yellow Pine)
EL DORADO—*El Dorado Hardwood Mfg. Co.
 *El Dorado Lumber & Planing Mill Co.
ELLIOTT—*Camben Lumber Co. (Yellow Pine)
FAYETTEVILLE—Northwest Arkansas Lumber Co.
FORDYCE—*Fordyce Lumber Co. (Yellow Pine)
 *Hampton Stave Co.
FOURCHE—*Fourche River Lumber Co. (Soft Yellow Pine, Hardwood Flooring, Latb & Shingles)
FORT SMITH—*Dyke Bros.
FROSTVILLE—*Red River Lumber Co. (Yellow Pine)
GIFTORD—*Stewart & Alexander Lumber Co. (Yellow Pine)
GILMORE—*Chapman & Dewey Lumber Co.
GREENFIELD—*Greenfield Lumber Co. (Hardwood, Cypress, Oak, Ash, etc.)
GRIFFIN—Griffin Mill Co. (Saw & Planing Mill)
GURDON—*O. Bannon-Julien Lumber Co.
 *Gurdon Lumber Co. (Yellow Pine)
HAMBURG—*Strawn, E. M. Lumber Co. (Yellow Pine)
HELENA—*Countiss, J. M. (Saw Mill)
 *Hackley-Pbelps-Bonnell Co.
 *McDonald Bros. (Hardwood)
 *Reeves, W. D. Lumber Co. (Hardwood)
HENSLEY—*Farrell, Wm. Lumber Co. (Yellow Pine)
HOPE—*Hope Lumber Co. (Yellow Pine)
HORATIO—McCoy, Jas. L. (Saw Mill)
 Moon-Pryor Lumber Co.
JONESBORO—*Alfrey, H. (Tight Barrel, Circled Headings, from all Woods)
JUNCTION—*Cornie Stave Co.
LESTER—*Lester Mills Co. (Yellow Pine Finish, Moulded Casings & Base)
LITTLE BAY—*Little Bay Lumber Co. (Yellow Pine)
LITTLE ROCK—*Abeles, C. T. & Co. (Yellow Pine, Cypress Lumber, Moulding, etc.)
 *Arkansas Cypress Shingle Co. (Shingle)
 *Central Lumber Co. (Lumber, Lath & Shingles)
 *Cypress Lumber & Shingle Co. (Shingles)
 Farrel, Wm. E.
 Ferguson, C. E., Saw Mill Co.
 *Ferguson Lumber Co. (Yellow Pine & Red Cypress)
 Miles Lumber Co., Ltd.
 *Niemeyer & Darrah Lumber Co.
 Rieff, A. V. & Sons (Planing Mill)
 Van Etten, G. H. Co. (Shingles)
 Wynne Stave Co. (Whiskey, Wine, Oil, Pork Cut-Off Staves)
MADISON—*Wheeler, J. W. & Co. (Hardwood)
MAGNOLIA—*Davis, E. H. Lumber Co. (Lumber & Saw Mill)
 Kerlin Lumber Co.
MALVERN—*Wisconsin & Arkansas Lumber Co. (Yellow Pine)
MARIANNA—*Ind. & Ark. Lumber & Mfg. Co.
 *Jarrett & Sons (Staves)
 L'Anguille Lumber Co.
MENA—*Leidigh & Havens Lumber Co. (Yellow Pine)
MILLVILLE—*Freeman-Smith Lumber Co. (Yellow Pine)
NEWPORT—Pond-Decker Mfg. Co.
OLA—Mt. Pine Lumber Co.
ONALASKA—*Onalaska Lumber Co. (Yellow Pine)
PERLA—*Malvern Lumber Co. (Yellow Pine)
PINE BLUFF—*Bluff City Lumber Co. (Yellow Pine & Cypress)
 *Sawyer & Austin Lumber Co. (Lumber & Yellow Pine & Saw Mills)
 Standard Lumber & Timber Co.

WE MANUFACTURE EVERYTHING IN WOOD OR WOODWORK

For Interior and Exterior Construction and Finish.

CYPRESS TANKS, TUBS, ETC.

We handle Lumber of all kinds, from all sections, North, South, East and West, making a principal specialty of

Florida Gulf Cypress and Georgia Long Leaf Pine.

THE A. T. STEARNS LUMBER CO., BOSTON, MASS.

PRESCOTT—*Ozan Lumber Co. (Yellow Pine)
 RISON—*Porter, J. I. Lumber Co. (Yellow Pine)
 SAGINAW—*Saginaw Lumber Co. (Yellow Pine)
 SAYRE—*Phoenix Lumber Co. (Yellow Pine)
 SPRINGDALE—*Northwestern Arkansas Lumber Co.
 STAMPS—*Bodcaw Lumber Co. (Yellow Pine)
 TEXARKANA—Buchanan, Wm. (Lumber Broker)
 *Floyd, J. F. Lumber Co. (Yellow Pine & Cypress Shingles)
 *Southern Pine Lumber Co. (Yellow Pine Mixed Cars a Specialty)
 THORNTON—*Stout-Greer Lumber Co. (Yellow Pine)
 TURRELL—Baker Lumber Co.
 WARREN—*Arkansas Lumber Co., The (Pine & Hardwood)
 *Bradley Lumber Co., The (Yellow Pine)
 *Southern Lumber Co. (Yellow Pine)
 WESSON—*Edgar Lumber Co. (Yellow Pine)
 *McDaniels, H. C. Lumber Co. (Yellow Pine)
 WILMAR—*Gates Lumber Co. (Yellow Pine, Lumber & Cypress Shingles)

CALIFORNIA.

ALBION—*Alblon Lumber Co. (Redwood Lumber, Shingles & Ties)
 BAKERSFIELD—Uniou Lumber Co.
 BECKWITH—*Horton Bros.
 BELLA VISTA—*Terry Lumber Co.
 BOULDER CREEK—Bloome, I. T.
 CASPAR—*Caspar Lumber Co. (Redwood Ties & Shingles)
 CHICO—*Sierra Lumber Co.
 CLAIRVILLE—Totton, J. G. & Co. (Saw Mill)
 DUNCANS MILLS—*Duncan's Mills Lard & Lumber Co.
 EUREKA—Bayside Mill & Lumber Co.
 *Dolbeer & Carson Lumber Co. (Redwood Lumber & Shingles)
 *Elk River M. & Lumber Co. (Redwood, Saw Mill)
 *McKay & Co. (Redwood Lumber & Shingles)
 *Vance Redwood Lumber Co. (Pine, Redwood Lumber & Shingles)
 FOREST HILL—*Flinning, B.
 FORT BRAGG—*Noyo Shingle Co. (Shingles)
 *Union Lumber Co. (Redwood Lumber, Shingles & Ties)
 FRESNO—Fassett Lumber Co.
 Fresno Lumber Co.
 *Hollenbeck Planing Mill Co.
 Valley Lumber Co.
 Madary Planing Mill Co., Inc.
 GILROY—*Whitehurst & Hodges
 GUALALA—*Gualala Lumber & Mill Co.
 HALF MOON BAY—Hatch, Rufus
 HOBART MILLS—Sierra Nevada Wood & Lumber Co. (White & Sugar Pine, Box Shooks, Door Shooks, Fruit & Packing Boxes, Lath Pickets, Shingles, Ceiling & Flooring, Rustic & Sliding Moulding, etc.)
 KELSEYVILLE—*Akers Bros.
 KERNVILLE—*Brown, A. Co.
 KORBEL—Northern Redwood Lumber Co.
 LA HONDA—*Weeks, B. D. & Co.
 LOMPOC—*Salinas Valley Lumber Co.
 LOS ANGELES—*Blinn, L. W. Lumber Co.
 *Inter-State Dock & Lumber Co.
 Montgomery & Mullin Lumber Co.
 *Patten-Davies Lumber Co.
 *San Pedro Lumber Co.
 Staunton, E. J.
 Union Box & Mfg. Co. (Lumber, Boxes & Shooks, Berry Baskets, Veneers, etc.)
 MENDOCINO—*Mendocino Lumber Co.
 MIDDLETOWN—*Overland Lumber Co.
 *Schwartz & Co.
 OAKLAND—*Derby, E. M. Co.
 *Humboldt Lumber Co.
 OCCIDENTAL—*Meeker, M. C.
 PASADENA—Blinn Lumber Co.
 Kerckhoff-Cuzner Mill & Lumber Co.
 Pasadena Lumber & Fuel Co.
 PESCADERO—*Levy Bros.
 PLACERVILLE—*Beach, S. G. & Co.
 *Blair, J. & J. Lumber & Land Co.
 PLATEAU—*Benton, T. H.
 *Daly & Son
 POINT ARENA—*White, L. E. Lumber Co. (Redwood, Sugar Pine & Cal. White Pine)
 RED BLUFF—*Sierra Lumber Co. (Cal. White & Sugar Pine Lumber, Fruit Boxes, Drying Trays, Cedar Posts, Box Shooks, etc.)
 REDWOOD CITY—McArthur & Hartley (Shingles)
 Virginia Timber & Lumber Co.
 SACRAMENTO—Friend & Terry Lumber Co.
 SAN BERNARDINO—Gill, J. B. Lumber Co.
 Suverkrup & John
 SAN DIEGO—Russ Lumber & Mill Co.
 *San Diego Lumber Co. (Redwood Lumber & Shingles)

SAN FRANCISCO—Adams, W. J., 118 Battery
 *Alblon Lumber Co. (Redwood), 4th and Channel
 Allen & Higgins Lumber Co., Howard & Spear
 Anderson & Middleton Lumber Co., 22 Calif
 Beadle, A. W. & Co., Missiou's wharf
 *Bellingham Bay Improvement Co., Sansome & Chestnut
 Blinn, L. W. Lumber Co., 204 Front
 Blyth & Trott, 101 Spear
 *Byxbee & Clark Co. (Redwood & Pine), Steuart & Folsom
 *California Lumber & Milling Co., 147 New Montgomery
 *Carey, F. W. & Co., Monadnock bldg
 *Carter, Geo. E. & Co., Crocker bldg
 *Casper Lumber Co. (Redwood Ties, Shingles, etc.), Kohl bldg
 Central Lumber & Mill Co., 21 11th
 *Clatsop Mill Co., 10 Cal.
 Dickens, Walter, Berry & 4th
 Dodge, E. J. Co., East & Howard
 Doe, Chas. F. & Co., Powell & Beach
 *Dolbeer & Carson (Redwood Lumber & Shingles), Folsom st bulkhead
 Duucan's Mills, Land & Lumber Co., 126 Beale
 *El River Valley Lumber Co. (Redwood Lumber & Shingles), 6 California
 *El Dorado Lumber Co. (Sugar Pine, Cal. White Pine Boxes, Shooks, etc.), 628 Montgomery
 *Excelsior Redwood Co., Channel & 4th
 *Gardner Mill Co., 212 Cal.
 Gray, G. D. & Co., Harrison st. wharf
 *Gray's Harbor Commercial Co. (Fir, Spruce & Red Cedar Lumber & Shingles), 237 California
 *Hanliff, J. R. & Co. (Redwood), Folsom & Steuart
 *Harmon, S. H. Lumber Co. (Pine, Spruce & Redwood), 1st & Brannon
 *Hickman & Masterson, Mason & Jefferson
 *Higgins & Collins, 508 Montgomery
 *Hobbs, Wall & Co. (Redwood Lumber), 124 California
 Hooper, C. A. & Co., 32 Steuart
 Hooper, Geo. Williams, 32 Steuart
 *Hooper, F. P. & J. A., 4 Cal.
 *Howard, E. A. & Co. (Hard & Soft Wood), 22 Howard
 *Humboldt Lumber Co., 205 Berry
 *Inman, Poulson & Co., Berry nr 3d
 *Loma Prieta Lumber Co., 1860 Webster
 McKay & Co. (Redwood Lumber & Shingles), Folsom & Steuart
 *Mendocino Lumber Co., Monadnock blk
 *Nelson, Chas Co. (Redwood, Pine Shingles, Posts, etc.), 144 Steuart
 *Nevada Lumber Co., 532 Market
 Niehaus & Co. (Inc.) (Hardwood), 564 Brannon
 *Northern Pacific Lbr. Co., 26 O'Farrell
 *Occidental Planing Mill, 663 2d
 *Pacific Lumber Co. (Redwood, Pine & Shingles), East, nr Mission
 *Pacific Pine Co. (Puget Sound Lumber, Rough Douglas Fir, R. R. Ties, Rustic Sidings, Bridge Timber, Car Sills, etc. for export), foot of Third
 *Pollard Lumber Co. (Redwood Lumber & Shingles), 22 California
 Pope & Talbot, foot of Third
 Port Blakely Mill Co., 116 Battery
 *Port Costa Lumber Co., 4 California
 *Puget Sound Lumber Co., 300 California
 *Renton, Holmes & Co. (Spars & Poles), Mills bldg
 Richardson Co., 51 Sacramento
 *Salinas Valley Lumber Co., 224 Cal.
 *San Diego Lumber Co., 10 Cal.
 *Santa Clara Valley Mill & Lumber Co., Mutual Savings Bank bldg
 *San Francisco Lumber Co., 5th and Channel
 *San Pedro Lumber Co., 4 California
 *Schouten, J. W. & Co. (Redwood, Pine Lumber & Shingles), 124 Townsend
 *Scott & Van Arsdale Lumber Co. (White Cedar, Sugar and White Pine, Redwood Lumber & Shingles), Flood bldg
 *Sierra Lumber Co. (Pine, Spruce & Fir), 320 Sansome
 *Sierra Nevada Wood & Lbr. Co., 532 Market
 Simpson Lumber Co., 34 Drumm
 *Slade, S. E. Lumber Co. (Pine & Spruce), 65 Mission
 *Sonoma Lumber Co., Claus Spreckels' bldg
 *Stockton, A. L. Lumber Co., 215 Guerrero
 *Tacoma Mill Co. (Douglas Fir, Oregon Pine, Plank, Timber, Ship Plank, Flooring, Rustic Ceiling, Lath, Pickets, Staves, Spars, Piling, Red Cedar Shingles, etc.), 234 California
 Works, Tacoma, Wash.
 *Taylor & Spottswood Co. (Hardwood), 19th & Minnesota

*Truckee Lumber Co. (of S. F.), Flood bldg
 *Union Lumber Co. (Ties, Poles, Pine & Redwood Piles, Spars, etc.), Monadnock bldg
 *Valley Lumber Co., 4 California
 *Washington Mills Co., 10 Cal.
 Wendling Lumber Co., Flood bldg
 *West Coast Lumber Co., 421 Market
 *White Bros. (Hardwood Importers & Dealers), c Spear & Howard
 *White, L. E. Lumber Co. (Redwood Lumber, Ties, Posts & Tan Bark), 36 Steuart
 Willson Bros. & Co., 324 Berry
 *Wood, E. K. Lumber Co. (Fir & Spruce)
 SAN JOSE—Alameda Lumber Co., 172 East
 *Chase, S. H. & Co. (Lumber & Saw Mill)
 *Cottoneva Lumber Co. (Lumber & Saw)
 *Glenwood Lumber Co. (Lumber & Mill Work)
 Hubbard & Carmichael Bros. (Lumber)
 *Santa Clara Valley Mill & Lumber Co. (Lumber & Mill Work)
 SANTA ANA—Griffith, J. M. Co.
 Pendleton, S. H.
 SANTA BARBARA—*Humphrey, G. W. & Co. (Planing Mill)
 *Union Mill Co. (Planing Mill)
 SANTA CLARA—*Alpine Lumber Co.
 SANTA CRUZ—*Hahn, F. A. Co.
 SCOTIA—*Pacific Lumber Co. (Redwood, Pine & Shingles)
 SELMA—*Olsen & Henriksen (Planing Mill)
 SISSON—*Wood & Sheldon Lumber Co. (Saw Mill, Lumber, etc.)
 SUNNY SOUTH—*Eureka Lumber Co.
 SUSANVILLE—O'Dett Bros.
 TOWLE—*Towle Bros. Co.
 VISALIA—Visalia Lumber Co.
 WEAVERVILLE—Morris, Jas.
 WESTPORT—Hilton Lumber Co.
 Pollard Lumber Co.
 WHITMORE—*Atkins, Q. N. & Son

COLORADO.

COLORADO SPRINGS—Crissey-Fowler Lumber Co.
 *Newton Lumber & Mfg. Co.
 DENVER—*Bingham, H. W., Larimer & 23d
 English, R. W. Lumber Co., Jacobson bldg
 Paris, A. N., 1429 Milwaukee
 Farrar & Guy, W 12th av & S 4th
 Fleming Bros., 139 B'way
 Hallack & Howard Lumber Co., Larimer c 7th
 Lewis & Wheeler Merc. Co., 1537 18th
 *McPhee & McGinnity, 18th c Wazee
 *Oregon Lumber Co., 1648 Platte
 Salzer, B. F. Lumber Co., Idaho c Virginia av
 Sayre-Newton Lumber Co., 23d c Blake
 Tabor-Pierce Lumber Co., W 1st av c Santa Fe av
 DURANGO—*Stubbs & Jakway
 GREELEY—Clayton Lumber Co.
 Greeley Lumber Co.
 Mayher, Wm.
 PUEBLO—Foley, T. H. Lumber Co.
 Newton Lumber Co.
 TELLURIDE—*Barnes, F. W. & Co.
 TRINIDAD—Davis, O. L. Lumber Co.
 Hughes Bros.

CONNECTICUT.

AVON—Woodford, W. G. & Co.
 BRIDGEPORT—Miller, Frank Lumber Co. (Saw Mill)
 Tomlinson, J. L. Lumber Co.
 West End Lumber Co., 1069 South av
 Wilson Lumber Co., 584 Iranistan av
 GARDNER—Perry, E. E. Co. (Saw Mill)
 HARTFORD—Capitol City Lumber Co.
 *Conn. Valley Lumber Co.
 Griswold, F. W. (White Pine & Hardwood), S. W.
 *Hartford Lumber Co. (Pine, Hardwood, Lath, Shingles, etc.)
 Taylor, Edwin Lumber Co.
 MERIDEN—Bishop, Dexter L. Co. (Saw Mills)
 NEW HAVEN—*Allings, Geo., 100 E Water
 *Connecticut Box Co.
 *Crosby & Beckley Co. (Hardwood)
 *De Forest & Hotchkiss Co., 115 Water
 *Elm City Lumber Co.
 Fogg, Ezra D. Co.
 Hartshorn, F. E.
 NEW LONDON—*Chappell, F. H. & A. H. Co.
 *Raymond, L. Q. (Saw Mill, Ties, Poles, Timber, etc.)
 NORTH HAVEN—Doolittle Bros. (Saw Mill)
 NORWICH—*Brewer, A. Henry
 Potter, A. L. & Co. (Saw Mill)
 SALEM—Clark, M. S. (Saw Mill)
 SEYMOUR—Hoadley, Edw. L. (Saw Mill)

SOUTH MANCHESTER—Carrier, Edwin T. (Saw Mill)
Manchester Lumber Co.
STAMFORD—Getman & Judd Co.
STRATFORD—Wood, Dan'l C. (Saw Mill)
TARIFFVILLE—Case, H. A. (Saw Mill)
THOMASTON—Bradstreet, Geo. P. (Saw Mill)
TORRINGTON—Wadhams, F. L. (Saw Mill)
UNION—Turner Bros.
WALLINGFORD—Baldwin, S. G.
Wallingford Lumber Co.
WATERBURY—Brass City Lumber Co., 60 Meadow
 City Lumber & Coal Co., 56 S Willow
 Tracy Bros. Co.
Waterbury Lumber & Coal Co., 107 Meadow
WESTFORD—Barlow Bros. (Saw Mill)
WESTPORT—Nash, Lloyd (Saw Mill)
WEST REDDING—Blackman, J. L.
WEST SUFFIELD—Spear, H. L. (Saw Mill)
WILLIMANTIC—Hillhouse & Taylor
WINSTED—Bronson Bros.
 *Buckley, F. E. (Saw Mill, etc.)
 Burwell, J. C.
 Tiffany & Pickett (Saw Mill)

DELAWARE

DOVER—Pennewill, C. S.
LEWES—Arnell, Robt.
 Ingram, A. P. & Co.
MIDDLETOWN—Hukill, G. E.
MILFORD—Milford Lumber Co.
NEW CASTLE—Elaison, J. T. & L. E.
SEAFORD—Parsons, S. H. (Saw Mill)
WILMINGTON—Anger, Geo. H.
 Diamond Lumber Co.
 *Dillon, Patrick J. & Son
 *Downey, Stephen & Son
 *Jackson, Francis E.
 *Kent, Lindley C. Co.
 Simmon, S. G. & Bro.
 *Wilmington Sash, Door & Blind Co.

DISTRICT OF COLUMBIA.

WASHINGTON—Adam, Geo. H., 1800 Ben-
 ning road
 *Carter & Clarke, 10th St Wharf, S. W.
 *Church & Stephenson, 8th & Md av, S. W.
 *Gallher, W. T. & Bro., 13th & B, N. W.
 *Johnson & Wimsatt, 1212 Water, S. W.
 *Libbey, J. E. & Son, 3018 Water, N. W.
 *O'Brien & Hall, 10 St Whf, S. W.
 *Riley, T. R., 13th & Ohio av, N. W.
 *Shryock, T. J. & Co., S Capitol & Va av
 Smith, Thos. W., 1st cor Ind av NW
 Tolson, J. W., 100 Monroe, Anacostia

FLORIDA.

ALBION—Phillips & McEachren (Saw Mill)
APALACHICOLA—***CYPRESS LUMBER**
 Co. (Band Sawed Gulf Cypress, Long
 Leaf Yellow Pine, Poplar & Cottonwood,
 etc.)
Loxley Lumber Co. (Pine & Cypress Lumber
 & Shingles)
BAGDAD—*Blackwater Mill Co.
BAKERS MILLS—High, Jno (Saw Mill)
BAYARD—Robinson, J. J.
BLUFF SPRINGS—Bluff Springs Mfg. Co.
 (Shingle Mill)
BOLTON—Williams Bros. (Saw Mill)
BRANDON—Galvin, Dan'l J. (Saw Mill)
CARRABELLE—*Franklin County Lumber Co.
CARTERS—Carter Mfg. Co. (Shingle Mill)
 Carver, E. O. (Crate Mill)
CARYVILLE—*Sanford Lumber Co. (Yellow
 Pine & Saw Mill)
 *Wood, Geo. E. Lumber Co.
CENTURY—*Alger-Sullivan Lumber Co. (Yel-
 low Pine)
COLEMAN—Turner, J. T. & Co.
DE FUNIAK SPRINGS—Beach, Rogers & Co.
 McPhail Lumber Co.
DUPONT—White, U. J. Co. (Saw Mill)
FERNANDINA—Borden, N. B. & Co. (Pitch
 Pine Exporters)
 *Cooney, Eckstein & Co.
 McNair & Son (Saw & Planing Mill)
HARNEY—*Bliss & Van Auken
 *Seminole Cypress Co.
JACKSONVILLE—Atlantic Lumber Co. (Log-
 ging)
 Baxter, G. S. (Ties, Piling, Railroad Lum-
 ber, etc.)
 Bugbee, Jos. H. (Saw Mill)
 Cashen, T. V. (Saw Mill)
 Corse, Mont'g'y (Shingle Mill)
 *Cummer Lumber Co. (L. L., Yellow Pine)
 *Ensign Lumber Co.
EPPENGER & RUSSELL CO. (Yel-
 low Pine), Dyall Upchurch bldg. (See
 adv. index, end of book)
 *Florida Tie & Lumber Co.
 Gress Mfg. Co. for Fla.
 Hirsch, Chas. S. & Co.

*Hunter, Dexter (Yellow Pine)
 *West Lumber Mfg. Co.
 *Weston & Co.
MONTEBROOK—*McNair & Wade Lumber Co.
 *Tyler, T. M. Lumber Co.
 *Wade & McArthur, Lumber Co.
MUSCOGEE—*Southern States Lumber Co. (Yel-
 low Pine)
NOCATEE—*King Lumber & Mfg. Co.
PALATKA—*Selden Cypress Door Co. (Cypress)
 Tlghmann, N. J. & Sons (Lumber & Shingle
 Mill)
 *Wilson, Cypress Co. (Cypress Lumber, Sld-
 ing, Shingles, etc.)
PENSACOLA—*Baars, H. & Co. (Pitch Pine)
 Brent Lumber Co. (Pine)
 *Hagerman Lumber Co. (Pitch Pine)
 *Keyser, Wm. S. & Co. (Exporters)
 *Pensacola Lumber Co. (Pitch Pine Ex-
 porters)
 *Rosasco Bros. (Pitch Pine Exporters)
 *Robinson, Rix M. (Exporters)
 *Southern States Lumber Co.
PINE BARREN—*McMillan Mill Co. (Yellow
 Pine)
PLANT CITY—Warnell Lumber & Veneer Co.
RODMAN—*Cummings, H. S. & Bro. (Saw
 Mill)
 *Rodman Lumber Co. (Saw Mill)
WALDO—Canthen & Co. (Shingle Mill)
WATERTOWN—*East Coast Lumber Co. (Saw
 Mill)
WEST LAKE—West Bros. (Saw Mill)
WEST PALM BEACH—Lainhart & Potter
WHITEFIELD—Jernigan, E. H.
WHITE SPRINGS—*Camp, R. J. & B. F.
 (Yellow Pine) Lumber Co.
WILLISTON—Hester, F. M. & Son (Saw Mill)
 *Medlin, R. D. & Co. (Yellow Pine)
WINDSOR—*Kelly, J. L. (Saw & Shingle
 Mills)
WITHLACOOCHIE—Taylor, Geo. W. (Saw
 Mill)

GEORGIA.

ABBEVILLE—*Wilkinson Co. (Shingle Mill)
ADRIAN—Rentz, E. P.
AILEY—Coursey, J. A.
 Sharpe, Grove (Saw Mill)
AIMER—Aimar, W. W. (Saw Mill)
ALAMO—Burch, J. B. (Shingle Mill)
ALLAPHAHA—Allaphaha Lumber Co.
AMBROSE—Griffin & Plowden (Saw Mill)
ARLINGTON—Arlington Lumber Co.
ARNOLD—Chamblee, W. L. (Saw Mill)
ASHBURN—*Betts, J. S. Co. (Yellow Pine,
 Lumber, Lath & Shingles)
ATHENS—Moss, R. L. Mfg. Co. (Planing
 Mills)
ATLANTA—*Alexander Lumber & Mfg. Co.,
 755 S Pryor
 *Byers, A. S. Co., Ridge av, Southern R'y
 Colcord Lumber Co., Peters bldg.
 *Enterprise Lumber Co. (Yellow Pine)
 George & Allen Lumber Co., 726 Empire
 *Hahr-Davis Lumber Co., 339 Decatur
 *Hosch Lumber Co., Century bldg
 *Lowe, E. E. Co., Austell bldg
 *Piedmont Lumber Co., 34 S Forsyth
 *Ray, D. J., 57 Glenn
 *Royal Lumber Co., Empire bldg
 *Simpson & Harper, Fourth National Bank
 bldg
 *Smith & Simpson Lumber Co., Peters bldg
 Union-Pinopolis Saw Mills, Empire bldg
 *West Lumber Co., 240 Peters
 Williams, G. O. (Lumber & Planing Mill),
 451 Marietta
 Willingham, E. G. & Co. (Lumber & Plan-
 ing Mill), 542 Whall
WILLINGHAM—Lift Lumber Co., 200 Murphey
 Woodward Lumber Co., 25 Murphey
 *Zuber, J. W., Empire bldg
AUGUSTA—*Augusta Lumber Co. (Long Leaf
 Yellow Pine)
 *Perkins Mfg. Co. (Yellow Pine)
BAINBRIDGE—*Flint River Lumber Co. (Yel-
 low Pine)
 *Ramsey-Wheeler Co. (W. Lumber)
 *Swindell, E. & Co. (Mfrs. & Exporters of
 Yellow Pine)
 White Lumber Co. (Saw Mill)
BAXLEY—Johnson, J. A. (Saw Mill)
BEECH HILL—Ivey, H. J. (Saw Mill)
BELOTEVILLE—Belote W. A. (Saw Mill)
BLAKELY—*Flowers Bros. Lumber Co. (Yel-
 low Pine, Rift Flooring a Specialty)
 Mock, J. F. (Saw Mill)
BRINSON—*Stuart Lumber Co. (Yellow Pine)
 Warren, S. J. (Saw Mill)
BRUNSWICK—*Aiken, Frank D. (Red Cypress
 & R. R. Ties, for Export, etc.)
 Brodhead, Jas. E. (Lumber and Crossties)
 *Brown & Co. (Crossties, lumber)
 *Cooney, Eckstein & Co. (Yellow Pine Lum-
 ber & Cross Ties)
 *Emanuel, N. & Co. (Lumber & Cross Ties)

Everett, R. H. (Shingles)
 *Hilton & Dodge Lumber Co.
 Hirsch, Chas. S. & Co.
 *Leatherbee, C. W. Lumber Co.
 *Sizer, R. R. & Co. (Yellow Pine)
 *Taylor-Cook Cypress Co. (Yellow Pine)
CEDARTOWN—*Dudley-Butts Sash, Door &
 Lumber Co. (Yellow Pine Doors, Blinds,
 Rift Flooring & Finishing Lumber)
 Shifflett, W. S. (Saw Mill)
DALTON—*Alaculsey Lumber Co.
 *Cherokee Mfg. Co.
 *Farrar Lumber Co. (Yellow Pine, Brackets,
 Blocks & Mill Finish)
DARIEN—*Hilton & Dodge Lumber Co. (Cy-
 press & Yellow Pine)
 Schmidt & Wyly (Exporters)
ELLIJAY—*Shippen Bros.
KESTLER—*Boyd-McDavid Lumber Co. (Yel-
 low Pine)
LAGRANGE—Pike Bros.
LAWRENCEVILLE—*Ambrose, J. A. & Co.
 Jackson, C. P. (Saw Mill)
LEESBURG—Anderson & Rogers (Saw Mill)
LONG POND—*Calhoun, J. W. & Wm. (Saw
 Mill)
 *Ockmulgee River Lumber Co. (Saw Mill)
LUMBER CITY—*Telfair Mfg. Co. (Saw Mill)
LYONS—Garbutt & Donavan (Saw Mill)
 Stacer, F. F. (Saw Mill)
McVILLE—McWilliams & Co. (Saw Mill)
MACON—*Masse & Felton Lumber Co.
 *Stetson Lumber Co. (Rough & Dressed,
 Long Leaf Yellow Pine, Car Stock &
 Bridge Timbers)
MARIETTA—Meinert & Whitlock
MINEOLA—*Mineola Mill Co. (Yellow Pine)
MONAIC—Sutton & Chisholm (Saw Mill &
 Crossties)
MOULTRIE—*Colquitt Lumber Co.
 Corbett, R. J. & Co. (Saw Mill)
 *Dougherty, *Morrison & Co.
 *Huber, Norman Lumber Co.
 *Southern Lumber Co.
 *Spivey Lumber Co.
 *Summer & Pound Lumber Co.
MOUNT PLEASANT—Aiken, L. R. & Bro.
NEWMAN—Cole, R. D. Mfg. Co.
OCHWALKEE—*Hilton & Dodge Lumber Co.
 (Yellow Pine)
OCILLA—*Ensign-Oskamp Co. (Saw Mill)
OLYMPIA—West Yellow Pine Co.
PELHAM—Rogers, R. M. & Co.
PITTS—McDuffie, D. (Saw Mill)
PRETORIA—Red Cypress Lumber Co. (Cypress,
 Pine & Hardwood)
ROME—*O'Neill Mfg. Co. (Yellow Pine)
SAVANNAH—*Aimar, W. W. & Co. (Saw &
 Planing Mill)
 Bacon, A. S. & Sons (Shingles, Lumber,
 etc.), 15 Whitaker
 Calhoun, J. A. (Exporter), 228 Bay E
 *Chattahoochee Lumber Co.
 *Craig, G. F. & Co.
 Cummings, J. J. (Lumber & Crossties)
 *Dixon Lumber Co. (Planing Mill, etc.)
 *Eagle Mfg. Co. (Boxes, etc.)
 *Georgia Pine Co.
 *Granger & Lewis (Wholesale Export Lum-
 ber)
 *Heard Lumber Co.
 *Hirsch, C. S. & Co. (Lumber, Bridge Tim-
 ber, Poles, Ties, etc.)
 *Jarratt Bros. (Saw Mill, etc.)
 Perez-Petinto & Co. (Exporters Lumber)
 *Reppard, Snedeker & Co. (Lumber &
 Shingles)
 *Southern Pine Co. (of Georgia), (Yellow
 Pine Lumber, Rough & Dressed Shingles,
 Lath, Mouldings, Newell Posts, Ballus-
 ters, Flooring & Heavy Timber)
 *Vale Royal Mfg. Co. (Shingle Mill)
THOMASVILLE—*Hebard Lumber Co.
 *Phillips, J. L. & Co.
TIFTON—*Ensign, Oskamp Co.
 *Georgia-Florida Mill Co.
 *Gress Mfg. Co.
 *Phillips Pine Co.
 *Tift, H. H. (Yellow Pine)
 Tifton Lumber Co. (Planing Mill)
VALDOSTA—Fender Lumber Co. (Saw &
 Planing Mills)
 Garbett, A. G. Lumber Co. (Planing Mill)
WADLEY—Wadley Yellow Pine Co.
WILCOX—Wilcox, J. L. (Saw Mill)
WILLINGHAM—Alford & Sloan (Saw Mill)
WRENS—Wrens Milling Co. (Saw Mill)
WRIGHT—*Garbut Lumber Co.

IDAHO.

BOISE—*Payette Lumber & Mfg. Co.
 *Ridenbaugh, W. H. (Lumber & Saw Mills)
 *Ruby Creek Lumber Co.
 *Shaw Lumber Co. (Lumber & Saw Mills)
COUR D'ALENE—Cour d'Alene Lumber Co.
 Lewis, R. B. Lumber Co.
 Reeves-Farrel Lumber Co.

ILLINOIS.

ANNA—*Anna Lumber & Mfg. Co.
 BELLEVILLE—Heinrich Lumber Co.
 Lese Lumber Co.
 Reis, J. B. Lumber Co.
 Reis, M. & H.
 BENTON—Ward, T. J. (Saw Mill)
 CAIRO—*Atwood, F. H. Lumber Co.
 *Carey-Halliday Lumber Co. (Hardwood
 Lumber & Boxes, Veneered & Sawed Egg
 Cases, Book Shooks, etc.)
 *Chicago Mill & Lumber Co. (Lumber & Box
 *Lumber Mill & Lumber Co. Shooks)
 *Houston Bros. (Yellow Pine, Hardwood &
 Langan, Peter T. (Saw Mill) Cypress)
 Miller & Whitaker (Saw Mill)
 Nordman, F. W. (Planing Mill)
 Smith, W. E. Lumber Co. (Red & White
 Oak)
 *Sondheimer, E. Co. (Hardwood & Quarter-
 ed Sawed Oak)
 *Three States Lumber Co. (Hardwood, Do-
 mestic & Export Cottonwood & Gum for
 Boxes)
 *Weis-Peterson Box Co. (Sawed & Veneered
 Egg Cases, etc.)
 CHARLESTON—*Andrews, B. P. & Co.
 CHICAGO—*Adams, Herbert L. (Commission
 Merchant), 303 W Randolph
 Alexander Lumber Co., 77 Jackson boul
 *Allen, Edmund A. (Commission Merchant),
 138 Washington
 Anguera Lumber Co., Monadnock blk
 Attley, J. M. & Co., 9 Jackson boul
 Bader, Ross & Co., Dominick ft A st
 *Badger & Jackson Co. (Wisconsin Lum-
 ber), 204 Dearborn
 *Baker Lumber Co., 204 Dearborn
 *Bay De Noquet Co., Masonic Temple
 *Beidler Francis & Co. (White Pine
 & Bevel Siding, etc.), W 22d & Loomis
 *Benedict, John S. (Hardwood & Wagon
 Stock), 135 N Halsted
 *Bickford & Knox Co. (Commission Mer-
 chants), 242 S Water
 *Bigelow Bros. & Walker Co. (Yellow
 Pine, Cypress & Hardwood), Tacoma bldg
 *Bowen, Chas. P., 184 LaSalle
 *Boyle, Clarence, Lumber Co. (Hardwood),
 319 W 22d
 *Brooks & Ross Lumber Co. (Pine & Hem-
 lock), 171 La Salle
 *Bryant Bros. (Commission Merchants), 163
 Randolph
 Buckner-Saunders Lumber Co., 279 Dearborn
 *Burns, Jno. E., Lumber Co. (Yellow Pine),
 40 W Chicago av
 *Calumet Lumber & Mfg. Co., 943 W 119th
 *Carey-Lombard Lumber Co., 205 La Salle
 Carney Bros. Co., 129 Monroe
 *Caryl, Alex. H. (Commission Merchant),
 138 Wash'n
 Central Lumber Co., 100 Elston av
 *Chicago Car Lumber Co. (Hardwood, Poplar
 & Pine), Pullman blk
 *Chicago Lumber & Coal Co., 138 Wash'n
 *Chicago Mill & Lumber Co., 140 W Chicago
 av
 *Church, Geo. E. (Commission Merchant), 70
 Dearborn
 *Cicero Lumber Co., W Lake c N 50th av
 Clancy-Bishop Lumber Co., 1054 Elston av
 *Columbia Hardwood Lumber Co. (Hard-
 wood), 65 Southport av
 *Continental Lumber Co. (Piling & Heavy
 Timber), Monadnock blk
 *Cottage Grove Mfg. Co. (Sash, Doors,
 Blinds), 91 38th
 *Crandall & Richardson (Yellow Cotton-
 wood), 33d & S. Centre av
 *Crane, F. R. & Co. (Hardwood), 440 N
 Branch
 *Cross, Clarence L. (La. Red Cypress), Mon-
 adnock blk
 *Danaher, C. D., 100 Wash'n
 Darling, Charles (Hardwood), Merchants'
 Loan & Trust bldg
 *Deacon, J. C. & Co. (Pine), Loomis nr
 W 22d
 *Deeves, G. H. Lumber Co. (Hardwood),
 1505 Railway Ex bldg
 De Vries, S. J. & Co., 945 W 47th
 *Dodge, P. G. Lumber Co. (Hardwood), 2116
 Lumber
 *Douglass, D. B. & Co., Monadnock blk
 *Empire Lumber Co. (Pine & Hardwood)
 61 Southport av
 *Fathauer, Theo. Co. (Hardwood), 235
 Cherry av
 *Fink-Heidler Co. (Hardwood), Ashland av
 *Frees, Benj. M., 234 La Salle
 *Gillespie, John Lumber Co., Lumber &
 Seward
 Gillis & Moulton (Piling & Heavy Tim-
 bers), 204 Dearborn

*Goodwillie Bros. (Lumber & Box Shooks),
 171 La Salle
 *Gourley, Arthur Co. (Pines), 108 La Salle
 *Green, Geo. Lumber Co., W 22d & S
 Canal
 *Gunderson, Severt T. (R. R. Ties, Cedar
 Posts, etc.), 138 Wash'n
 *Gustorf, Fred'k (Commission Merchant), 163
 Randolph
 *Hamilton & Merryman Co. (White Pine),
 204 Dearborn
 Hapeman, Edgar, Lumber Co., 134 Monroe
 *Hartwell, Edwin S., Lumber Co. (Pine),
 Fisher bldg
 *Hayden, Harvey S. (Plain & Quartered
 Sawed Oaks), Ry Exch bldg
 *Heath, Witbeck & Co. (Maple, Cypress &
 Basswood), 6 Madison
 Hendrickson, F. S., Masonic Temple
 *Heuning E. & Co. (Barrel, Staves, Head-
 ing, Hoops & Box Straps), 145 La Salle
 *Herbert, Wm. A. & Co., 131 La Salle
 *Hines, Edward Lumber Co. (Lumber, Laths
 & Shingles), Lincoln S of Blue Island av
 *Holt Lumber Co., 315 Dearborn
 *Houston, Geo. T. & Co. (Yellow Pine,
 Hardwood & Cypress), Tribune bldg
 Howe, James, Lumber Co., Archer av &
 Howes Bros., 647 W 71st Quarry
 Jones, Coates & Bailey, 320 Franklin
 *Joyce, W. T. Co., 234 La Salle
 *Keith Lumber Co. (Hardwood & Southern
 Pine), W 14th & Wood
 *Kelley, C. B. Lumber Co., "The Rookery"
 *Kelley, W. E. & Co., 138 Wash'n
 Kemler Lumber Co., Division & Halsted
 *King, W. O. & Co. (Yellow Pine & Hard-
 wood), Loomis St. Bridge off W 22d
 *Kirby-Carpenter Co., 9 Jackson boul
 *Knudson & Mercer Lumber Co. (White &
 Yellow Pine, Lath, Shingles, etc.), Mar-
 quette bldg
 *Krum, Griffith & Co. (Commission Mer-
 chants, Monadnock bldg
 *Lesh & Matthews Lumber Co. (Native &
 Hardwood), 204 Dearborn
 *Lord & Bushnell Co. (Yellow Pine), W 22d
 c Centre av
 Lockwood & Strickland Co., Halsted & 49th
 Lowe, Perley & Co., Ry Exch bldg
 *Marsh & Bingham Co. (L. L. Yellow Pine,
 Fir, Oak & Hemlock Timber), Old Colony
 bldg
 *Maxwell Bros. Co., Loomis c W 21st
 Mears, Chas. H. & Co., 1103 Belmont av
 *Menominee River Lumber Co. (Lumber,
 Lath & Shingles), 204 Dearborn
 *Mercer & Brannum (White & Yellow Pine,
 Lath, Shingles, etc.), Marquette bldg
 *Messinger Hardwood Lumber Co. (Hard-
 wood), Mendell & Armitage av
 *Miller Bros. (Hardwood), 6 Madison
 *Miller, C. P. & Co. (Wisconsin Lumber,
 Lath, Shingles, etc.), 9 Jackson boul
 *Miller, Jas. G. (Commission Merchant),
 204 Dearborn
 *Miller, Wm. H., 131 La Salle
 *Mississippi Lumber Co. (Long Leaf, Yel-
 low Pine), 9 Jackson boul. Mills: Quit-
 man, Miss.
 Morgan Sash & Door Co. (White Pine, Idaho
 Pine, Basswood, Ash, Elm, Maple, Oak,
 Hemlock, etc.; Shingles, White Cedar,
 Red Cedar & Pine), West 23d & Union
 *Mueller, Wm. Co. (R. R. Ties, Posts, Poles,
 etc.), foot of Laffin
 Nourse-Taylor Lumber Co., 138 Wash'n
 *O'Brien, John Land & Lumber Co. (Pine),
 879 Laffin
 *Oconto Co., Masonic Temple
 *Otis Mfg. Co. (Hardwood), 2257 Lumber
 *Paepcke-Leicht Lumber Co. (Box Shooks &
 Nail Works), W Chicago av & N Sangamon
 *Paine Lumber Co. (Mill Work)
 Paltzer, C. A. Lumber Co., 3800 S Centre
 ave
 *Pate, D. S. Lumber Co. (Long Leaf Yel-
 low Pine), 279 Dearborn
 *Pike & Dial (Commission Merchants), 204
 Dearborn
 Pilsen Lumber Co., W 22d c Laffin
 *Porter, Frank (Commission Merchant), 138
 Wash'n
 Pulaski Lumber Co., 35 Fleetwood
 Raber & Watson (Cedar, Ties, Poles &
 Posts), Old Colony bldg
 *Richmond, Slimmer & Co. (Hardwood), 65
 W 22d
 Rittenhouse & Embree Co. (Oak & Maple
 Flooring), 3500 S Centre av
 *Ryan & McParland (Hardwood & Wagon
 Stock), 1010 Blue Island av
 *Sagola Lumber Co., 9 Jackson boul
 Santee River Cypress Lumber Co., Loomis
 c W 22d

Schroeder, Wm. Lumber Co., 1808 Lincoln
 av
 *SCHULTZ BROS. & BENEDICT
 (Maple, Oak & Pine Flooring & Cedar
 Poles, etc.), Old Colony bldg
 Shoot, W. E. & Co., 315 Dearborn c Laffin
 *Sondheimer, E. Co. (Hardwood, Lumber,
 Oak, Ash, Satinwood, Gum, Elm, Bass-
 wood, Birch & Maple), 108 La Salle
 *Soper Lumber Co., 22d & Loomis
 Southern Oak Lumber Co., 138 Washington
 *South Chicago & Calumet Lumber Co., Har-
 bor av c 95th
 *South Side Lumber Co. (Maple & Oak Floor-
 ing), W 22d & Ashland av
 *Spalding Lumber Co. (Lumber, Lath &
 Shingles), 204 Dearborn
 *Spry, John Lumber Co., W 22d & S Ash-
 land av
 Stewart A. T. Lumber Co., 78th & Green-
 wood av
 Stone, Frank B., Ry Exch bldg
 *Stoneman, Geo. W. (Oak, Ash, Poplar,
 Gum, Hickory, Poplar, etc.), 72 W Erie
 *Street, Chatfield & Co., 25 W Fullerton av
 Sumpter Lumber Co. (Yellow Pine) 77 Jack-
 son boul
 *Thompson Lumber Co., 84 Ry Exch bldg
 Tucker, W. R. Lumber Co., 135 Adams
 *Turnbull-Joice Lumber Co. (Yellow Pine),
 1200, 164 Dearborn
 *Underwood, J. Platt, 84 Van Buren
 *Union Lumber Co. (L. L. Yellow Pine),
 234 La Salle
 *Upham & Agler (Basswood, etc.), 125 Mon-
 roe
 *Vinnedge, A. R. Lumber Co (Hardwoods),
 164 Dearborn
 *Ward Lumber Co. (Hardwood), Chamber of
 Commerce bldg
 *Wells, R. A. Lumber Co. (Hardwood), Cham-
 of Com bldg
 *Wentworth, J. & G. K., 234 LaSalle
 Wheelock Lumber & Mfg. Co., 945 N Camp-
 bell av
 *White Lake Lumber Co., Cham of Com
 bldg
 *White Lumber Co. (Hardwood), 22d &
 Laffin
 White River Lumber Co., 92d & Harbor av
 *Wilce, T. Co. (Maple & Hardwood Flooring,
 Polished & Matched Ends), 22d c Thropp
 Willey, C. L., 1225 S Robey
 Wisconsin Timber & Lumber Co., Monadnock
 blk
 *Wood, Geo. E. Lumber Co. (Wis. Pine),
 125 Monroe
 Wuichet, Louis, Ry Exch bldg
 W. & B. Hardwood Lumber Co. (Oak, Pop-
 lar, Walnut & Cherry), 1084 S Paulina
 COBDEN—Bell, James (Est. of) (w. & r. lum-
 ber)
 *Mesler, W. P. & Co. (Lumber & Fruit
 Boxes)
 CREAL SPRING—Dugger, A. A. (Lumber)
 DALE—*Rountree, Geo. V. (Staves)
 DANVILLE—Danville Lumber Co.
 Hooten Bros.
 Trent Bros.
 DECATUR—*G. S. Lyons & Sons Lumber &
 Mfg. Co.
 EAST ST. LOUIS—*Eade, J. C. Mfg. Co.
 *East St. Louis Lumber Co., 8th & Alr Line
 Ry.
 *Goedde, B. & Co., Missouri av & 10th
 Reis, H. G. & Co., Illinois av & 9th
 Southern Illinois Construction Co., St. Louis
 av & Belt Ry
 ELGIN—Rinchimer Bros. Mfg. Co.
 FULTON—*Joyce Lumber Co. (Lumber, Lath,
 Shingles & Mouldings)
 GALESBURG—Simpson, Jas. C. & Co.
 HOOPESTOWN—Moore & McFerren (Saw Mill,
 Lumber & Cottonwood Box Shooks)
 KELL—Hays, O. G. (Saw Mill)
 KENNEY—*Andrews, B. P. & Co.
 LA SALLE—Hunter, Stevens & Co.
 McLEANSBORO—*Wright, T. B. & Sons
 MARTINSVILLE—Sallee, Theo. M. (Saw Mill)
 MASCOU—Leibrock, Geo. (Saw Mill)
 MATTOON—*Andrews Bros.
 *Gabbert Lumber Co. (Lumber & Planing
 Mill)
 METROPOLIS CITY—*HARRIS & COLE
 Bros. (Poplar & Oak Lumber, Wagon
 Box Material, Turned Work & House
 Trimmings, Export & Turned Work)
 MOLINE—*Dimock, Gould & Co.
 MOUND CITY—*Meyer, C. E. & Co. (Staves and
 Headings)
 Williamson-Knny Mill & Lumber Co.
 (Southern Hardwoods, Long Oak Timber,
 Lath, Saw & Planing Mill)
 MOUNT CARMEL—*Brayer & Voight (Lumber &
 *Kelch, J. C. & Co. (Hardwood) Staves)

MOUNT VERNON—*Louth, J. W. (Hardwood)
 NEBO—Minier Bros.
 NORRIS CITY—Barnes, T. S. Lumber Co.
 OAK PARK—Barr & Collins
 PEORIA—*Benedict, C. D. & Co. (Yellow Pine)
 *Hinzle, Miss Jane M.
 Knetzger, Chas. Lumber Co.
 *Lord, Lee H. & Co.
 Miller, Joseph & Sons (Lumber and Contractors)
 Proctor, J. C. Lumber Co.
 PERU—Maze, Walter H. & Co. (Planing Mill)
 QUINCY—*Menke-Grimm Planing Mill Co.
 Moiler & Vanden Boom Lumber Co.
 ROCKFORD—*Parsons Lumber Co.
 *Smith, Du Plain & Crumb Co.
 *Stoue, F. P.
 ROCK ISLAND—*Rock Island Lumber & Mfg. Co. (Lumber, Lath & Shingles)
 *Weyerhaeuser & Denkmann Co. (White Pine)
 SPRINGFIELD—Eielson, A.
 Shuck, J. H. & Son
 VANDALIA—Sonneman, C. G.
 Sonneman, Wm. & Son
 WEST SALEM—Fishel, A. (Saw Mill)
 WINCHESTER—Hunter, Allen & Co.

INDIANA.

AKRON—Akron Lumber Co.
 ALBION—Croft, B. F. (Saw Mill)
 ANDERSON—Atherton, M. & Sons (Planing Mill)
 Myers & Adams
 Springer, Geo. E. (Planing Mill)
 Walton & Co. (Planing Mill)
 Winters, Mercer & Brannum Lumber Co.
 AVILLA—Yeiser Bros. (Saw & Planing Mill)
 ATTICA—Attica Lumber Co.
 Galloway & Clark
 Martin, H. C. & Co.
 BATESVILLE—Hillenbrand (The) Co.
 BEDFORD—Lanz-Fry Lumber Co.
 BERNE—Berne Lumber Co. (Saw Mill)
 Smith, P. W. & Co. (Saw Mill)
 BIRDS EYE—Southern Indiana Mfg. Co. (Spokes & Bldg Material)
 BLOOMFIELD—Jones, L. H. (Saw Mill)
 BLOOMINGTON—Fulwider, W. A. (Lumber)
 *Waldron, Hill & Buskirk (Hubs & Spokes)
 BLUFFTON—Cline, A. B.
 Eaton, Jas. B. (Lumber & Piling)
 BOONVILLE—*White, C. P. Lumber Co. (Hardwood, Quartered Oak)
 White, R. B. Lumber Co.
 BRAZIL—Brazil Lumber Co.
 Keasey, N. T. Lumber Co. (Saw Mill)
 Wilder, C. E. & Co. (Planing Mill)
 BROOKVILLE—Buckley, Jas. (Lumber)
 Dudley, F. M. (Planing Mill)
 Ferris, John & Son (Planing Mill)
 BROWNSTOWN—Cunningham, J. W. (Saw Mill)
 BUTLER—Mason, A. J. & Son.
 CLAY CITY—*Guirl, B. M. (Hardwood)
 *Long, J. M. (Hardwood)
 CONVERSE—*Murphy & Kenny (Lumber & Planing Mill)
 CONNERSVILLE—Connorsville Lumber Co.
 CORYDON—Hickman, Levi (Saw Mill)
 COVINGTON—Williams, Geo. W. (Saw Mill)
 CRAWFORDSVILLE—Big Four Lumber Co. (Lumber & Veneering)
 Burkholder, Saml. Lumber Co. (Hardwood)
 Hoosier Stave & Lumber Co.
 CROWN POINT—Root, D. A.
 CUMBERLAND—Duncan & Barrett (Saw Mill)
 DARTINGTON—*Lynch, W. B. (Lumber & Saw Mill)
 DUNKIRK—Dunkirk Lumber Co.
 DUPONT—Graston, G. W. (Saw Mill)
 EAST CHICAGO—*Lesh, Prouty & Abbott Co. (Walnut exclusively)
 EDINBURG—*Maley, Henry (The) Co. (Hardwood)
 ELKHART—*Elk Valley Lumber Co. (wood)
 ELWOOD—Hedrick, Homer (Saw Mill)
 Heffner, Louis (Saw & Planing Mill)
 EVANSVILLE—*Evansville Hardwood Mfg. Co. (Hardwood)
 *Helfrich Lumber & Mfg. Co. (Saw Mill)
 *Hermann, H. Mfg. Co. (Saw Mill)
 *McCorkle, Jno. S.
 *McFerson & Foster (Cottonwood, Poplar & Box Shooks)
 *Maley, Hy. Lumber Co. (Quartered White Oak, Plain Red & White Oak, Poplar, Hickory, Ash & Walnut)
 ELKHART—Martin & Amidon
 Monger, C. L. (W. & Com. Lumber)
 ELWOOD—Elwood Lumber Co. (Planing Mill)
 Heffner, Lewis & Son (Saw Mill)
 Winters Lumber Co.
 EVANSVILLE—*Evansville Planing Mill Co.
 Helfrich Lumber & Mfg. Co. (Saw Mill)
 *Herman, H. Mfg. Co. (Hardwood & Saw Mill & Dimension Mill)
 Maley, Henry Lumber Co. (Quartered White Oak, Plain Red & White Oak, Poplar, Hickory, Ash & Walnut)
 FERDINAND—*Beckman & Dilger Co. (Saw & Planing Mill)

FORT WAYNE—*Diether Lumber Co. (Hardwood)
 *Fort Wayne Lumber Co.
 Franke, H. (Planing Mill)
 *Gilmartin, Edw. (Hardwood & Planing Mill)
 Hilker Bros. (Saw Mill)
 *Hoffman Bros. Co. (Hardwood)
 Klett, Jacob & Sons (Planing Mill)
 *Mossman, Wm. E.
 *Perrine-Armstrong Co.
 Maley & Werts (Hardwoods, Quartered Oak & Saw Mill)
 May Bros. (Band Sawed Hardwoods & Saw Mill)
 Reitz's, Clemens Sons Co. (Saw Mill)
 Reitz, John A. & Sons. (Saw Mill)
 Schultze, Waltman & Co. (Saw & Dimension Mill)
 Thompson, Thayer & McGowan (Saw Mill)
 Von Behren Mfg. Co. (Spokes & Bentwood)
 Young & Cutsinger (Saw Mill)
 FOWLER—Evans & Calloway
 FRANKFORD—Benefield & Son (Saw Mill)
 GOSHEN—*Irwin, Jno. W. (Est. of)
 *Lesh, Joseph H. (Hardwood)
 *Sanders & Egbert Co. (Hardwood)
 *Young-Greene Lumber Co. (Hardwood)
 GREENSBURG—*Talbert, W. E. Lumber Co.
 GREENCASTLE—*Barnaby, C. H. (Hardwood)
 GWYNNEVILLE—*Wilcoxon, W. W. (Hardwood)
 HAGERSTOWN—Werking & Keagy (Saw Mill)
 HARTFORD CITY—*Willmau Lumber Co. (Saw Mill & Lumber)
 *Winklebleck & Walters (Saw Mill & Hardwood Lumber)
 HUNTINGTON—Kenower, John & Sons (Hardwood & Planing Mill)
 INDIANAPOLIS—Advance Veneer & Lumber Co., Mass av & Adams
 *Bachman, F. M. Co., Madison av c Lincoln
 *Buddenbaum Lumber Co., New York c Pine
 Capitol Lumber Co., 849 Mass. av
 *Carter, Lee & Co., 1621 W Wash.
 *Christian Lumber Co. (Hardwood), 701 E. Wash'n
 *Coburn Timber Co. (Flooring, Siding, Posts, Lath, etc.), 902 E 22d
 *Dickson, Jas. C. (Oak, Ash & Poplar), 936 E. Vermont
 *Dynes Lumber & Coal Co., 1100 E Maryland
 Eaglesfield, Wm. Co., 19th & L E & W R R
 *Eichholtz, Geo. W. & Son, Lemcke bldg
 Eldridge, E. H. Lumber Co., 312 S New Jersey
 *Foster Lumber Co. (Hardwood, Veneered Doors, Mantels, Stairways, etc.), 802 N Senate av
 Greer-Haughton Lumber Co. (Newtown-Claypool bldg)
 *Long-Knight Lumber Co. (Hardwood), 1025 Lewis
 *Mainland Mfg. Co. (Hardwood), 2406 Yandes
 Mass-Neimeyer Lumber Co., E 22d & Monon R. R.
 *Michigan Lumber Co. (Long Joist & Heavy Timber), 929 E St Clair
 *Pinnell, J. W., Lemcke bldg
 Pratt, G. C., Law bldg
 *Sisson, Geo. D., Lumber & Shingle Co., Lemcke bldg
 *Talge Mahogany Co., 1101 E 13th
 *Walnut Lumber Co. (Hardwood), 1321 Lewis
 Wright-Bachman Lumber Co., Madison av & Lincoln
 KOKOMO—*Armstrong-Landon Co. (Hardwood & Pine)
 Indiana Lumber Co.
 LAFAYETTE—*Lafayette Lumber & Mfg. Co.
 LAPEL—Woodward Bros. (Saw Mills)
 LOGANSPOUT—Fernald, W. L. (Saw Mills)
 Howe, S. E. (Hardwood, Lumber & Plow Handle Factory)
 Stevens Bros. (Hardwood)
 MARION—Burley & Spencer (Wholesale Dealers)
 Barnard Bros. (Dealers)
 Byrd & Sons (Dealers)
 Marion Lumber Co. (Wholesale Dealers)
 MICHIGAN CITY—*Colburn, A. R. Co.
 MUNCIE—Kirby-Wood Lumber Co.
 Muncie Lumber Co.
 NEW ALBANY—*Roberts & Conner Co. (Veneer & Lumber)
 NEWBERRY—Killian, W. D. (Saw & Planing Mill)
 NEW MARKET—*Childers, Wm. R. (Hardwood)
 NORTH VERNON—*Cone, J. D. (Spokes, etc.)
 *Litchfield Bros. (Hardwood)
 *North Vernon Pump & Lumber Co. (Hardwood)
 PERU—*Brownell, C. H. (Planing Mill & Lumber)
 PETERSBURG—Cummins Lumber Co. (Saw Mill & Lumber)

PLEASANT LAKE—*Goodwin, J. W.
 PLYMOUTH—*Morris, C. L. (Saw & Planing Mills)
 PORTLAND—*Adams, D. L. Co. (Staves & Headings)
 *Bimel, F. Co. (Spokes, Hubs & Handles)
 North, Frazier & Co. (Saw Mill)
 PRINCETON—*Nickey, A. B. & Sons (Band Sawed Hardwood)
 RICHMOND—*Johnson, B. & Son (Lumber, Piles & R R Ties)
 *Kramer, C. & W. (Hardwood)
 ROCKVILLE—*Ferguson & Co. (Planing Mill)
 RUSHVILLE—*Case, J. D. (Hardwood)
 Pinnell & Tompkins.
 SALEM—*McCowen, H. A. & Co.
 SEYMOUR—*D'Heur & Swan Lumber Co. (Hardwood)
 SHELBYVILLE—*Frechtling & Morner (Saw Mill & Bending Works)
 Stroup, S. P. Lumber Co.
 SULLIVAN—Smith, L. R. & Co. (Saw Mill)
 TERRE HAUTE—*Hooton, R. A. & Co.
 *Langton, H. A. & Co. (Hardwood)
 SOUTH BEND—*Indiana Lumber & Mfg. Co.
 Miller & Donahue Lumber Co.
 Page, R. G. Lumber Co.
 *Perley Hardwood Lumber Co. (Hardwood & Bent Stock)
 VINCENNES—James, R. O. McDonald Co. (Saw Mill)
 WASHINGTON—*Murdoch Veneer & Lumber Co. (Hardwood Lumber & Veneers, Fancy Figured Quartered Oak a Specialty)

INDIAN TERRITORY.

ARDMORE—Chickasaw Lumber Co.
 CHICKASHA—Stephenson-Browne Lumber Co.
 McALESTER—Dutch Creek Lumber Co.
 MUSKOGEE—Muskogee Lumber Co.

IOWA.

ALBIA—Clark, J. F. (Lumber & Saw Mill)
 BELLEVUE—*Bittner, Louis (Hardwood)
 *Dorchester & Hughey (White Pine)
 BOONE—Fehleisen-Rosacker Lumber Co.
 BURLINGTON—*Burlington Lumber Co. (White Pine)
 *Gilbert, Hedge & Co.
 *Nairne, Gillies Co. (Sash & Door Factory & Planing Mill)
 CEDAR FALLS—Cedar Falls Lumber Co.
 *Harris & Cole Bros. (Poplar & Oak Lumber, Wagon Box Material, Turned Wood & House Trimmings, Export Turned Work)
 CEDAR RAPIDS—Cedar Rapids Lumber Co.
 Fay Bros. & Co.
 Limback & Jeffrey
 Williams & Hunting Co. (Planing Mill)
 CLINTON—*Curtis Bros. & Co. (Mill Work)
 Ingwersen, Berbeck & Co.
 *Lamb, C. & Sons (Lumber, Lath, Shingles, Pickets, Flooring, Siding, Ceilings, etc.)
 Peterson, Bell & Co. (Box Shooks & Crates, etc.)
 Young, W. J. & Co.
 CORYDON—Corydon Lumber Co.
 COUNCIL BLUFFS—*Bluff City Lumber & Coal Co.
 Hafer, C.
 *Hoagland, Geo. A.
 *Quinn, H. A. Lumber Co.
 DAVENPORT—Cable, Geo. W., Jr.
 Crossett, G. S. (Pine Logs, etc.)
 Hayward Lumber Co.
 Jefferson County Lumber Co.
 Lindsay Laud & Lumber Co.
 Loguno (The) Co.
 *Lindsay & Phelps Co.
 *McClelland, T. W. Co.
 *Mueller Lumber Co. (Saw Mill)
 *Roberts, U. N. Co.
 Smith, J. J. Lumber Co.
 Southern Lumber Co.
 *Weyerhaeuser & Denkmann
 Woodruff-Kroy Co. (Slack Cooperage Stock, Butter Tub Stock, etc.)
 DES MOINES—*Chicago Lumber & Coal Co., 1100 Walnut
 Beaver Lumber Co.
 *Ewing & Jewett, 627 E Walnut
 *Gilcrest, J. K. & W. H. Co., 4th & Vine
 *Green Bay Lumber Co., Equitable bldg
 Jewett Lumber Co., E 7th & Walnut
 *Longshore, G. L. (Saw Mill), 8th nr Elm
 *Northern Lumber & Mfg. Co.
 *Oregon Lumber Co., 516 Clapp blk
 *Queal, J. H. Co., 201 E Grand av
 *Whicler Lumber & Bridge Supply Co., 208 S 7th
 *Wisconsin Lumber Co., Youngerman blk
 DUBUQUE—*Carr, Ryder & Adams Co. (Sash, Day, W. H., Jr. Doors, Blinds)
 *Farley & Loetscher Mfg. Co. (Sash, Doors, Blinds)
 Frudden Lumber Co.
 *Metz Mfg. Co. (Sash, Doors, Blinds, etc.)
 *Standard Lumber Co.

ESTHERVILLE—Northern Lumber Co.
 FORT ATKINSON—Becker, Wm. Co.
 FORT DODGE—Chapin, L. E.
 Conway, Owen & Sons
 Mason & O'Connell
 FORT MADISON—*Atlee, S. & J. C. (White Pine)
 GLENWOOD—Buffington, C. R. Lumber Co.
 GUTTENBURG—*Zimmerman, J. & Ives
 HAMBURG—Hydinger & James
 HARLAN—Dow & Sandham
 HAWARDEN—Schoeneman Bros. Co.
 INDIANOLA—Harlan, J. M. Lumber Co.
 Sigler & Patterson
 KEOKUK—*Carter, S. C. & S. Co.
 Schmidt, Henry & Sons Co.
 *Taber Lumber Co.
 KILBOURNE—*Gilbert Bros.
 LEHIGH—*Harrington, S. W.
 MANCHESTER—*Wolcott Bros. (Lumber & Shingles)
 MAGNOKETA—Hand-Fisher Lumber Co.
 MARSHALLTOWN—Buchwald, Chas. A. Lumber Co.
 Krentzer & Wasem (Planing Mill)
 MASON CITY—Hill, J. K. & Son
 MISSOURI VALLEY—Denr, C. H.
 MUSCATINE—*Hershey Mira Lumber Co.
 Muscatine Lumber & Box Co.
 *Musser Lumber Co. (White Pine)
 *South Muscatine Lumber Co. (Box Shooks)
 OSKALOOSA—*Antlers Wagon Co. (Lumber Mfrs.)
 *Hawkeye Lumber Co.
 Hawkeye Timber Co. (Lumber)
 Kalbach Lumber Co.
 Porter, C. M. Lumber Co.
 OTTUMWA—Fletcher Lumber Co.
 Hutchison, M. B. Lumber Co.
 McGavic, S. L. Lumber Co.
 REINBECK—Porter Lumber Co.
 SIOUX CITY—Blenkiron Bros., Inc.
 *Bowman-Kranz Lumber Co.
 *Edwards & Bradford Lumber Co. (Wholesale)
 Ford & Hollandsworth Co.
 *Fullerton Lumber Co.
 Spalding, J. D.
 WATERLOO—Black Hawk Lumber Co.
 Canfield Lumber Co.
 *Chapman, Chas. W. Lumber Co.
 Gronen & Cowan
 Meyers, Henry
 *Naumann & Co.
 Waterloo Lumber Co.
 Wisowa Lumber Co.
 WOODLAND—*Jennings, W. H. & Bro.

KANSAS.

ATCHISON—Brockett, B. L.
 *Carlisle, Pennell, Lumber Co.
 Schulz-Fisk Lumber Co.
 Uhrich, O. W. Planing Mill Co.
 CHANUTE—Chanute Lumber Co.
 CLAY CENTRE—Kreeck, L.
 COFFEYVILLE—Lapsley Lumber Co.
 Smith & Baly Lumber Co.
 CONCORDIA—Concordia Lumber Co.
 EMPORIA—*Kansas Wholesale Lumber Co.
 Sprague, E. F. (Planing Mill)
 HEWINS—Leedy Lumber Co.
 HIAWATHA—McKnight Lumber Co.
 HUTCHINSON—*Hutchinson Lumber & Planing Mill Co.
 *White, L. J. Lumber Co.
 IOLA—Cooper, S. M. Lumber Co.
 Northrup Lumber Co.
 KANSAS CITY—*Creel, T. C. Lumber Co.
 Ellis, John W. (Planing Mill)
 LAWRENCE—Lewis, Luther N.
 LEAVENWORTH—Bratt, John
 Garrett, Robt. Lumber Co.
 Lambert Lumber Co.
 LE ROY—Harris-Anderson Lumber Co.
 NEODESHA—Blakly, W. L. & Co.
 NEWTON—Olinger, John
 Swartz, S. M. Lumber Co.
 OLATHE—Hodges Bros.
 OSKALOOSA—*Peppard, Sam'l
 PITTSBURG—*Pittsburg Planing Co.
 Sandford-Robinson Lumber Co.
 ROSSVILLE—*Thomas J. & Co.
 SALINA—Hindendorf, H. H.
 TOPEKA—*Thomas, J. Lumber Co.

KENTUCKY.

ANGLIN—Eastern Kentucky Lumber Co.
 ARLINGTON—Arlington Heading & Lumber Co.
 Neville, W. N. (Saw Mill)
 Stanley Lumber Co.
 ASHLAND—*Ashland Dimension Mfg. Co.
 *Ashland Lumber Co. (Wholesale & Retail).
 Yard & Mill
 *Beckette, O. F. L. & Co. (Wholesale Poplar & Oak)
 *Big Woods Lumber Co.
 *Brammer & Co.
 *Dawkins, W. H. Lumber Co. (Wholesale Poplar & Oak)

*Herman, H. Lumber Co. (See 36S Broome, New York City)
 *Key-Fannin Lumber Co.
 Leicht, Jacob (Saw Mills)
 *Standard Planing Mill & Bldg. Co.
 *STRACK, E. W. LUMBER CO.
 (Oak, Poplar & Hickory Lumber & Mfrs. of Chair Stocks)
 *Thomas, M. William Lumber Co.
 *Vansant, Kitchen & Co.
 *Vansant, W. R. Lumber Co.
 *Wright, Giles & Co. (Poplar & Oak)
 BAILEYS SWITCH—Bailey, J. R. (Saw Mill)
 BARBOURSVILLE—*Rathfon, Scent & Co.
 BARDWELL—*Bardwell Heading & Mfg. Co.
 Dunbar Mill & Lumber Co. (Piling, Bridge Timbers, Switch Ties, Car Stock, etc.)
 BEAVERDAM—Alford, J. F. (Crossties)
 Turk, J. W. (Timber)
 BECKS STORE—Smith, R. S. & Son (Saw Mill)
 BENTON—Treas, R. G. Lumber Co.
 BETHELIDGE—*Wesley, Silas (Shingle Mill)
 BIG CREEK—Moffitt-Bowman Lumber Co.
 BONNIEVILLE—Stamp, J. M. (Saw Mill)
 BOONSBORO—Stevens, H. L. (Saw Mill)
 BOWLING GREEN—Kister, F. L., Jr. (Saw & Planing Mill)
 *Roemer Bros. (Planing Mill)
 Russell, J. N. & K. M.
 BRADFORDSVILLE—Terhune's B. Sons (Saw Mill)
 BRODHEAD—Cranor Smith Lumber Co.
 BROWNS CROSSROADS—Pickens, J. P. & Co. (Saw Mill)
 BROWNSVILLE—Norene Bros. Lumber Co.
 BURKESVILLE—Williams & Fitchey (Saw Mill)
 *Young Bros. (Lumber & Staves)
 BURNSIDE—*Kentucky Lumber Co. (Lumber & Saw Mill)
 CADIZ—*Woodruff Planing Mill Co.
 CAMPBELLSVILLE—*Campbellsville Lumber Co. (Hardwood)
 Gowdy, J. E. (Staves & Headings)
 CANEYVILLE—Bond, T. M. (Crossties & Lumber)
 CARROLLTON—*Adkinson Bros.
 CATLETTSBURG—Logan Lumber Co.
 Nigh, S. H. & Bro.
 CENTRAL CITY—Fortney, T. Q. (Planing Mill)
 CLAY CITY—*Clay City Spoke Co.
 *Swann-Day Lumber Co. (Hardwood)
 COVINGTON—Covington Lumber Co. (Saw Mill, etc.)
 *Hellmann Lumber & Mfg. Co. (Planing Mill, etc.)
 DANVILLE—*Danville Planing Mill Co.
 *Gentry & Kenney (Planing Mill)
 *Taylor, Mitchell (Staves)
 ELIZABETHTOWN—Bond Bros. (R. R. Crossties)
 FORD—*Bart & Brabb Lumber Co. (Hardwood)
 *Ford Lumber & Mfg. Co. (Hardwood)
 FRANKFORT—Belle Point Lumber Co.
 Capital Lumber & Mfg. Co. (Planing Mill)
 *Congleton, T. J. & Bro. (Saw Mill)
 *Kenney Bros. (Saw Mill)
 FROZEN CREEK—Cable & Drake (Crossties)
 Day, Floyd (Staves & Ties)
 FLEMING—Hall, W. K. Lumber Co.
 *Pierce, Cequin & Co.
 GLASGOW—Davidson, L. T.
 *Redman, Wm. (Staves)
 Smith, J. N.
 Spencer, Young & Co.
 HENDERSON—*Clare's, James Sons (Lumber, Saw & Planing Mills)
 Henderson Lumber Co.
 *Rankin Lumber Co. (Saw Mill)
 HENSHAW—Runyan, I. V. (Lumber, Shingles & Logs)
 HIGHBRIDGE—Hughes, J. D. Lumber Co. (Saw & Planing Mill)
 IRVINE—Snowden, A. D. & W. M. (Saw Mills)
 JACKSON—*Day Bros. Lumber Co. (Hardwood)
 Patton, Samuel E. (Saw Mill)
 KEAVY—Strom, John & Co. (Saw Mill)
 KINGS CREEK—Field, A. J. & Son (Saw Mill)
 KNOELICK—Allen, O. C. (Saw Mill)
 LEBANON—*Baker, J. F. Lumber Co. (Saw Mill)
 *Lebanon Lumber Co.
 LEITCHFIELD—Dinwiddie, R. & Co.
 LEXINGTON—Coombs Lumber Co. (Saw Mills)
 Curran, Wm. & Son
 Hendricks Bros. & Co.
 Lexington Lumber & Mfg. Co. (Saw Mill)
 *Spotswood, E. R. & Son (Hardwood)
 LIMABURG—Rouse, W. R. (Saw Mill)
 LINTON—Bartee, J. B. (Timber)
 LIVERMORE—Acker Lumber Co. (Saw & Planing Mill)
 Hackett, R. E. & Son (Saw & Planing Mill)
 *Quigg Mfg. Co. (Staves)
 LIVINGSTON—Livingston Lumber Co.
 LONDON—Edwards, D. C. & Bro.
 *London Mfg. Co. (Lumber)
 *Murphy, D. B. & Co.
 LOUISA—*Northrup, Jay H. (Ties, Lumber, Staves)
 LOUISVILLE—*Bell & Coggeshall Co. (Planing Mill)

*Berry, J. L. (Saw Mill, Hardwood), 4th & K
 *Boa, Wm., 919 5th
 *Brown, W. P. & Sons (Hardwood), 6th, bet Hill & A
 *Casey, Jno., 231 3d
 *Central Planing Mill & Lumber Co.
 *Chicago Lumber & Coal Co., Columbia bldg
 *Comstock, L. H. & Bro.
 Couchner, W. H. (Saw Mill), 1001 Fulton
 *Cunningham, Robert M.
 *Davis, E. L. & Co. (Hardwood), 4th cor. K
 *Fullenlove H. S., Lexington cor. 14th
 Gage, W. M., 735 W Green
 *Gamble, J. G. (Yellow Pine, Yellow Poplar, Hardwood), 445 W. Main
 *Geruert Bros. Lumber Co. (Saw Mill)
 *Graham, S. P., 810 Magazine
 Hoskins, Wm. H. (Saw Mill), 943 Fulton
 *Hubbard Bros. (Staves & Headings for Whiskey, Wine & Beer Barrels)
 *Hughes, E. L. Co. (Wholesale Sashes, Doors, etc.), 215 E. Main
 *Hughes, W. J. & Sons Co. (Cedar Logs, Posts, etc.)
 *Kentucky Lumber Co., 204 5th
 Kirwan Bros. (Saw Mill), Fulton & Adams
 *Koehler, Hy. & Co. (Planing Mill, Hardwood, Yellow Pine, etc.), 12th & B'way
 *Lortz & Frey Planing Mill Co. (Inc.), 420 E Breckenridge
 Louisville Point Lumber Co. (Saw Mill), 1000 Fulton
 Mackay, Alex. M. (Cedar), 150 Hancock
 Mehler & Eckstenkemper Lumber Co. (Cedar), 1042 E Main
 Mehler Lumber Co. (W. Yellow Pine, Hardwoods), Keller Bldg.
 *Mengel, C. C. & Bro. Co. (Saw Mill, Hardwood & Box Shooks; also Exporters), G c 5th
 *Moore, Hughes, Keller bldg
 *Moody, G. E. & Co. (Ky. Planing Mill)
 *Norman Lumber Co. (Saw Mill; Hardwood)
 *Ohio River Saw Mill Co. (Saw Mill)
 Parsons-Willis Lumber Co., Keller Bldg.
 Perkins & Pettibone, 445 W Main
 *Russell, Frank B. (Beer Staves)
 Southern Lumber Co., Keller Bldg.
 *Stotz Lumber Co. (Inc.)
 *Wehmhoff & Ballard, Todd bldg
 MARCELLUS—Poindexter, C. R. (Saw Mill)
 MARYDELL—Gregory, N. M. (Saw Mill)
 MONICA—Hieronymus, G. D. & Bro. (Saw Mill)
 MONTICELLO—*Kentucky Hardwood Lumber Co. (Carriage & Wagon Material)
 MURRAY—*H. B. & M. Lumber Co.
 MOREHEAD—*Bradley, S. M. (Mfr. & W. Lumber, Staves, etc.)
 NEW HOPE—Hall, B. S. (Saw Mill)
 NEWPORT—Unnewehr, Frank Co. (Saw Mill)
 Voss, Frank (Lumber & Planing Mill)
 Weingartner's, Jos. Sons (Lumber & Planing Mill)
 OWENSBORO—*Brosius-Robinson Lumber Co. (Hardwood)
 *Kopp, John, Stave & Lumber Co.
 Owensboro Lumber Co. (Hardwood)
 PADUCAH—*Ferguson & Palmer Co. (Hardwood Lumber)
 *Langstaff-Orm Mfg. Co. (Saw & Planing Mill)
 *McKinney Veneer & Package Co.
 *Paducah Veneer & Lumber Co. (Saw & Planing Mill)
 *Riglesberger, F. & Son (Saw & Planing Mill)
 PIKEVILLE—Hatcher, James (Timber)
 PINEVILLE—*Asher, A. J. (Saw Mill)
 *Gibson, J. J. & Son
 *Kings & Jones (Staves)
 PULASKI—Dodge, M. M. (Saw Mill)
 QUINCY—Howland, L. A. & Son (Saw Mill)
 RINALDO—Mitchell, W. J. (Saw Mill)
 ROCHESTER—Willis, Wm. (Timber)
 Willis, Wm. (Timber)
 SALT LICK—Fell, W. J. (S. Lumber, Staves)
 Karrick, J. & W. (Saw Mill)
 *Salt Lick Lumber Co. (Saw & Planing Mill)
 SEBREE—Ashby & Commins (Saw Mill)
 Brown & Luck (Saw Mill)
 SOMERSET—*Humble, A. R. (Staves)
 *Somerset Lumber Co.
 *Somerset Stave Co.
 TORRENT—*Day, J. Taylor (Saw Mill)
 McLin, R. J. & Co. (Logs & Lumber)
 VALLEY VIEW—*Southern Lumber Co.
 VANCEBURG—*Ort & Willin (Hickory Spokes)
 VINEGROVE—Vinegrove Lumber Co.
 VOTH—*Keith Lumber Co. (Piling)
 WALTON—*Mayhugh, J. D. Mfg. Co. (Lumber)
 WARSAW—*McDanell's, J. H. Sons (Poplar, Oak & Interior Finish)
 WASIOTO—*Asher, T. J. & Sons (Hardwood)
 WICKLIFFE—Blankenship, T. G. (Saw Mill)
 WINCHESTER—*Clairfield Lumber Co. (Saw Day, Floyd (Lumber, Staves, Ties) Mill)
 *Reliance Mfg. Co. (W. Lumber)
 Scobee, R. P. & Sons
 Winchester Lumber & Mfg. Co.

LOUISIANA.

ABBEVILLE—Stebbins E. M. & Co. (Lumber)
 ALBERTA—*Blenville Lumber Co. (Yellow Pine)
 ALDEN BRIDGE—*Strayhan, J. L. (Saw Mill)
 *Whited & Wheeler (Yellow Pine)
 ALEXANDRIA—Enterprise Lumber Co.
 Hayslip & Dear
 International Lumber Co.
 La Croix Lumber Co. (Saw Mill)
 Rand, Ed., Lumber Co.
 Union Lumber Co. (Brokers)
 ALLEMANDS—Des Allemands Lumber Co., Ltd.
 ALLENTOWN—*Allen Bros. & Wadley, Ltd. (Yellow Pine)
 AMITE CITY—*Hayden, J. Y. (Saw Mill)
 ANGIE—Ferguson, S. J.
 ANSLEY—*Davis Bros. Lumber Co. (Ltd.), (Yellow Pine)
 ANTRIM—*Antrim Lumber Co. (Yellow Pine Lumber)
 ARCADIA—*Arcadia Lumber Co. (Ltd.)
 Durrett, J. A. & Co. (Saw Mill)
 ARNAUDVILLE—Greig, George & Co.
 ATHENS—Pace & Gandy (Saw Mill & Lumber)
 BALDWIN—Baldwin Lumber Co., Ltd.
 BALL—*Ball, J. F. & Bro. Lumber Co. (Shingle & Saw Mill)
 BARHAM—*Pickering, W. R. Lumber Co. (Yellow Pine)
 BATON ROUGE—*Fearson, E. V. (Shingle Mill)
 *Hopper, Samuel & Son (Saw Mill, Staves, etc.)
 *McLeod, H. F. (Veneer Works)
 BAYOU CHICOT—Bayou Chicot Lumber Co.
 Johnson, Louis (Saw Mill)
 BAYOU SARA—Bayou Sara Lumber Co., Ltd.
 BENTON—Bulkeley, Jas. Lumber Co., Ltd.
 BERNICE—Bernice Lumber Co., Ltd.
 BERWICK—Norgress-Menefee Cypress Co., Ltd.
 *Vinson, Geo. Shingle Mfg. Co.
 BIENVILLE—Bienville Lumber Co.
 BLANCHARD—Dunn & Richardson (Saw Mill)
 BOLEYN—*Petty, D. G. Lumber Co.
 BOLINGER—*Bollinger, S. H. & Co. (Ltd.), (Yellow Pine)
 BONAMI—*King-Ryder Lumber Co. (Yellow Pine)
 BONITA—Culton-Shelby Lumber Co. (Yellow Pine)
 *Cypress Lumber & Shingle Co.
 BOSSIER—*Shreveport Cottonwood Co., Ltd.
 BOUDREAU—*Callou Mfg. Co.
 BOWIE—*Bowie Lumber Co. (Lumber & Shingle Mill)
 BREAUX BRIDGE—Begnaud, Joseph W. (Lumber)
 BreauX Bridge Lumber Co., Ltd.
 BRODNAX—Overbey Saw & Planing Mill
 BUNKIE—Bunkie Cypress Lumber Co. (Saw Mill)
 Haas, W. D. & Co. (Lumber & Saw Mill)
 BROUSSARD—Billeaud Lumber Co.
 BURTON—*Burton-Swartz Cypress Co.
 BUTLER—Robertson & Moore (Saw Mill)
 CAMPTI—Black Lake Lumber Co.
 CANTON—*Powell, D. C.
 CHACHAHOULA—*Boudreaux, L. S. & Co. (Shingle Mill)
 CHENEYVILLE—Crawford, J. B. Milling Co. (Saw Mill)
 CHENIERE—Tioga Creek Lumber Co.
 CLARKS—Louisiana Central Lumber Co.
 CLAYTON—*Rhoades, E. C. Lumber Co. (Lumber & Saw Mills)
 COLDWATER—Louisiana Logging Co., Ltd.
 COLFAX—*Big Pine Lumber Co., Ltd.
 Dixie Land & Lumber Co.
 Iatt Lumber Co.
 COTTON VALLEY—Porter-Wadley Lumber Co.
 *Valley Stave Co.
 COUSHATTA—Corley, W. C. (Saw Mill)
 *Great Southern Lumber Co.
 CROWLEY—Adams-Duson Lumber Co.
 *Mermenton Shingle Mill
 DE RIDDER—*Hudson River Lumber Co. (Yellow Pine)
 Robert Lumber Co.
 DONALDSONVILLE—Esnault Lumber Co., Ltd.
 People's (The) Lumber Yard (Lumber, Sash, Doors)
 DONNER—*Dilbert, Stark & Brown Cypress Co. (Cypress, Lumber, Lath & Shingles, Mouldings, Finish & Pickets, Hewn & Sawn Ties & R. R. Timbers, etc.)
 DOSSMAN—Hellman & Dossman (Saw Mill)
 DUBACH—*Dubach Lumber Co. (Yellow Pine)
 *Dulac Cypress & Shingle Co.
 ENGELWOOD—Engel Land & Lumber Co.
 EOLA—*Hosshall & McDonald Bros.
 ERATH—*Farmers' Lumber Co.
 Kibbe, J. E.
 ESTHERWOOD—Hoyt, E. T. (Saw Mill)
 FISHER—*Louisiana Long Leaf Lumber Co. (Yellow Pine)
 FLOREIN—Ayers, N. A. Lumber Co. (Saw Mill)
 Williams Bros. Lumber Co.
 FOREST HILL—Hurricane Creek Lumber Co.
 Randolph & Drouett
 Smith, Branch B.
 FRANKLIN—*Kyle Lumber Co. (Ltd.)
 Oak Bluff Planting & Mfg. Co. (Saw Mill)

FRIERSON—Hearne, W. H. Co., Ltd. (Saw Mill)
 GARDEN CITY—Hansen, Albert Lumber Co. (Saw Mill)
 GARYVILLE—Lyon Cypress Co. (Lumber & Shingles)
 GENESEE—Genesee Lumber Co. (Shingles)
 GEORGETOWN—*Georgetown Lumber Co.
 GIBSON—*Gibson Cypress Lumber Co. (Lumber & Saw Mills)
 GRAPPE BLUFF (Red Oak P. O.)—*Pelican Shingle Co.
 Broussard, E. E.
 Reliable Lumber Co.
 HAMMOND—Arnold Land & Lumber Co. (Saw Mill)
 Cate, Chas. Ed. (Saw Mill)
 Hammond Lumber Co., Ltd.
 HARVEY—*Harvey Mfg. & Improving Co.
 *Louisiana Cypress Lumber Co. (Red Cypress, Lumber & Shingles)
 HAWTHORNE—Prairie Creek Lumber Co.
 HAYES—Hayes Cypress & Lumber Co.
 HAYNESVILLE—*Hampton Stave Co.
 HEAD OF ISLAND—Opdenweyer, M. C. (Saw Mill)
 HORNBECK—*Hornbeck Lumber Co. (Yellow Pine)
 HOUMA—*Houma Cypress Lumber Co. (Yellow Pine)
 *St. Louis Cypress Co. (Ltd.), (Lumber & Shingles)
 HYDE—East Union Lumber & Mfg. Co. (Lumber & Saw Mill)
 INDEPENDENCE—Day, L. D. & Son (Saw Mill)
 Independence Veneer & Box Mfg. Co.
 JEANERETTE—*Jeanerette Lumber & Shingle Co. (Cypress)
 *Planters' Lumber Co. (Cypress, Lumber, etc.)
 JENNINGS—*Jaenke, H. F. Lumber Co.
 KENTWOOD—*Brooks-Scanlon Co.
 *Kent, Amos Lumber & Brick Co. (Yellow Pine)
 *Smith & Stevens Lumber Co. (Saw Mill)
 LAFAYETTE—*Vordenbauman Lumber Co., Ltd.
 LA FOURCHE—Bourgeois & Lofort (Saw Mill)
 LAKE ARTHUR—*Lake Arthur Lumber Co. (Cypress, Lumber & Shingles)
 LAKE CHARLES—*Bel, J. A. Lumber Co. (Yellow Pine)
 *Hodge Fence & Lumber Co. (Saw Mill)
 Lumber, Fencing & Yellow Pine
 *Menefee, L. B. & Co. (Lumber & Saw Mill. See also Houston, Tex.)
 Newcombe, F. E. Howard (Exporter)
 *Powell Lumber Co. (Lumber, Yellow Pine)
 Stout, J. C. (Saw Mill)
 White, Son & Castle (Saw Mill)
 Wilcox, C. B. (Exporter)
 LAKE PROVIDENCE—Fischer, Jos. L. Lumber & Mfg. Co.
 LEES CREEK—Great Southern Lumber Co.
 LEESVILLE—Nicklass, J. W. (Saw Mill)
 *Nona Mills Co. (Yellow Pine)
 *Powell Bros. & Sanders Co., Ltd.
 LINCEUM—*Fullerton, S. H. (Yellow Pine)
 LOGANSPOUT—*Logansport Lumber Co.
 LONG LEAF—*Crowell & Spencer Lumber Co. (Yellow Pine)
 LORING—*Bowman, Hicks Lumber Co. (Yellow Pine)
 LUDINGTON—*Ludington-Wells-Van Schalck Co.
 LUDIVINE—*Fair Cypress Co.
 LUTCHER—*Lutcher & Moore Cypress Lumber Co. (Red Cypress)
 MADISONVILLE—Dendlinger & Co. (Saw Mill)
 *Houlton Lumber Co.
 MANSURA—*Horse Shoe Lumber Co.
 MARINGOUIN—*Wilson & Cochran
 MARKSVILLE—*Birch Bros. Co., Ltd. (Saw Mill)
 MINDEN—*Mindin Hardwood Mfg. Co. (Saw Mill)
 *Mindin Lumber Co.
 MONROE—*Herring Co. (Lumber)
 *Monroe Lumber Co. (Lumber, Yellow Pine & Saw Mill)
 *Monroe Shingle Co. (Shingle Mill)
 *North Louisiana Shingle Co. (Shingle Mill)
 MORGAN CITY—*Brownell-Drews Lumber Co. (Cypress Lumber & Shingles)
 *Cotton Cros. Cypress Co. (Lumber & Shingles)
 MONTROSE—*Montrose Lumber Co. (Yellow Pine)
 MYRTISTOWN—*Black Bayou Lumber Co. (Yellow Pine)
 NAPOLEONVILLE—*Napoleon Cypress Lumber Co. (Lumber & Shingles)
 NATALBANY—*Natalbany Lumber Co. (Ltd.), (Yellow Pine)
 NEW IBERIA—Iberia Lumber Co. (Cypress Lumber & Saw Mill)
 *Renoudet, P. L. Lumber Co. (Ltd.) (Saw Mill)
 NEW ORLEANS—*Berwick Lumber Co., 2333 Olio
 *Bowie Lumber Co., Ltd., Hibernia Bldg
 *Carre, W. W. Co. (Yellow Pine Exporters), 331 Carondelet
 *Central Mfg. & Lumber Co. (Ltd.), S Salcedo & Perdido

Cypress Selling Co., Ltd. (Rough & Dressed Louisiana Red Cypress)
 \$Des Allemands Lumber Co., Hibernia bauk bldg
 *Fischer Lumber & Mfg. Co. (Cypress), 7932 St. Charles' av
 Gomila-Dcmack Lumber Co. (Hardwood Exporters), Hibernia Building
 \$Iberia Cypress Co. Ltd., Hibernia bldg
 \$Jeancette Lumber & Shingle Co., Hibernia bldg
 \$Knopp, Otto, 1217 Julia
 *Lambou & Noel Lbr. & Mfg. Co., 4600 N Peters
 Lewis, H. F. & Co., Ltd. (Cypress Lumber & Shingles), 316 Baronne
 \$Lhotc Lbr Co., Carondelet Walk c N Dupre
 *Moore, Lucas E. Stave Co. (White Oak Cooperage Stock & Hardwood Lumber, etc.)
 *Murphy Lumber Co., Ltd., Hennen bldg
 \$Opdenweyer Cypress Co. (Ltd.), S. Lopez, cor Perdido
 *Otis Mfg. Co., ft of Peters
 \$Poitevent & Favre Lbr. Co., L. L. & G. bldg
 \$Reeves-Powell Co. (Ltd.) (Exporters), Hibernia Bk bldg
 \$Roberts & Co., 1419 Gravier
 Robinson, C. W. Lumber Co. (Yellow Pine, Satin Walnut, etc.), 806 Gravier
 *Ruddock Orleans Cypress Co. (Cypress Lumber), Carrollton av & New Basin
 \$St. James Timber Co. (Ltd.), Hiberuia Bk bldg
 *Salmen Brick & Lumber Co. (Yellow Pine Cypress Lumber), 716 Common
 *Schut & Kiebn (Hardwood Exporters), Hennen bldg
 Schwartz, E. G. Lumber Mfg. Co. (Hardwood), 912 Fulton
 *Sutherland, L. J. & Co. (Exporters Pitch, Pine, Timber, Staves), L. L. & G. Bldg 204 Carondelet
 Thomas, G. H. A. Co., Poydras & S Broad
 Union Lumber Co., Hibernia bldg
 NEW ROADS—*Mlx, Tbos. (Lumber)
 NOBLE—*Noble Lumber Co. (Yellow Pine)
 OAKDALE—*Industrial Lumber Co. (Yellow Pine)
 *Rice, J. S. & W. M. Lumber Co. (Saw Mill)
 PATTERSON—Lutcher & Moore Lumber Co. (Cypress Lumber & Shingles)
 *Riggs Cypress Co., Ltd. (Lumber & Planing Mill)
 *Williams, F. B. Cypress Co., Ltd.
 PICKERING—*Pickering, W. R. Lumber Co. (Yellow Pine). (See Kansas City, Mo.)
 PLAQUEMINE—*Levert Lumber & Shingle Co. (Cypress)
 *Plaquemine Stave & Heading Co.
 *Schwing Lumber & Shingle Co. (Cypress)
 *Wilbert, A. Sons Lumber & Shingles Co. (Red Cypress Lumber & Shingles)
 PLATTENVILLE—*Baker-Wakefield Cypress Co. (Ltd.) (Saw Mill & Lumber)
 PLEASANT HILL—*Pleasant Hill Lumber Co., Ltd.
 POLLOCK—*Big Creek Lumber Co. (Long Leaf Yellow Pine)
 RAMOS—*Ramos Lumber & Mfg. Co. (Red Cypress Lumber, Lath & Shingles)
 RAMSAY—*Greenlaw Lumber Co. (Yellow Pine)
 RANDOLPH—Summit Lumber Co. (Yellow Pine)
 RAPIDES—Morrow, C. A. & Son (Saw Mill)
 ROCHELLE—*Louisiana Lumber Co. (Yellow Pine)
 ROW LANDING—*Hall-Coady Lumber Co. (Lumber & Staves)
 RUSTON—*Adams, J. A. & Sons Co., Ltd. (Staves)
 *Ruston Milling Co. (Planing Mill)
 *Short Leaf Lumber Co., Ltd.
 *Vienna Lumber Co.
 ST. JAMES—*Rives, J. C. Cypress Co., Ltd.
 ST. MARTINSVILLE—*Burdin, J. J. & Bro. (Lumber & Saw Mill)
 SELMA—*Grant Lumber Co. (Ltd.) (Yellow Pine)
 *Little River Lumber Co. (Ltd.) (Yellow Pine)
 SHREVEPORT—*Allen Mfg. Co. (Yellow Pine Lumber, Cypress Pickets, Mouldings, Red Cypress, Cisterns, etc.)
 *Austro-American Stave & Lumber Mfg. Co. (Lumber & Staves, Mfrs. & Exporters)
 *Black Lake Lumber Co.
 *De Soto Land & Lumber Co.
 *McCullough Lumber Co. (Yellow Pine)
 *Pelican Shingle Co.
 *Perkins Lumber & Timber Co.
 *Richardson, D. C.
 *Shreveport Lumber & Mfg. Co. (Hardwood) (Lumber & Boxes)
 *Victoria Lumber Co. (Planing Mill, etc.)
 *Werner, Louis Stave Co.
 SINGER—*Strange, W. G. Lumber Co. (Saw Mill)

SPRINGFIELD—*Brakenridge Lumber Co., Ltd. (Saw Mill)
 SPRINGHILL—*Pine Woods Lumber Co. (Lumber, Saw & Planing Mill)
 STRADER—*Owl Bayou Cypress Co. (Lumber & Shingles)
 ST. FRANCESVILLE—*Rayhan, T. W. Lumber Co.
 SWARTZ—*Swartz, E. G. Co. Ltd. (Yellow Pine)
 TANGIPOHOA—*Day Lumber Co. (Saw Mill)
 TANNEHILL—*Hall & Legan Lumber Co., Ltd.
 THAXTON—*Henderson-Bennett Lumber Co.
 TREMONT—*Tremont Lumber Co. (Yellow Pine)
 URANIA—Urania Lumber Co. (Ltd.) (Long Leaf Yellow Pine, R. R. Construction & Car Materials)
 VINTON—Industrial Lumber Co. (Yellow Pine)
 VIVIAN—*Thomason, W. J.
 WASHINGTON—Gibbons, T. C. (Saw Mill)
 *Thistlewaite Lumber Co. (Saw Mill)
 WEST LAKE—Locke, Moore & Co., Ltd.
 *Hoshall & McDonald Bros. (Lumber & Saw Mill)
 WEST MONROE—*Haynes Lumber Co. (Saw Mill)
 *West Monroe Mfg. Co. (Sashes, Doors, etc.)
 WHITECASTLE—Adams, G. G. (Saw Mill)
 *Whitecastle Lumber & Shingle Co. (Red Cypress)
 WINNFIELD—*Dalton-Clark Stave Co.
 *Louisiana Saw Mill Co., Ltd.
 *Sulphur Timber & Lumber Co., Ltd. (Planing Mill)
 WINNSBORO—Steele & Johnson (Saw Mill)
 WINONA—*Pine Tree Lumber Co. (Yellow Pine)
 WOODWORTH—*Rapides Lumber Co. (Yellow Pine)
 WYATT—*Wyatt Lumber Co. (Yellow Pine)
 YELLOW PINE—*Globe Lumber Co. (Yellow Pine)
 ZIMMERMAN—*Bentley, J. A. Lumber Co. (Yellow Pine)
 ZWOLLE—Sabine Lumber Co., Ltd. (L. L. Yellow Pine)

MAINE.

ALBANY—*Brown, Jas. (Saw Mill)
 ALEXANDER—*Dwelle, Jno. W. (Shingles)
 ALFRED—*Jordan, B. C.
 ALTON—Webber, C. P. (See Bangor)
 AMHERST—*Kenniston, J. S. & Sons (Shingles)
 ANDOVER—*Poor, O. B. & E. S.
 ARGYLE—*Smith, Sam'l
 ARROWSIC—*Crosby, W. L. & Son (Saw Mill)
 ASHLAND—*Ashland Mfg. Co.
 AUBURN—*Hutchins, H. Wesley Co. (Basswood)
 *Winter, Frank W. (Veneer)
 AUGUSTA—*Augusta Lumber Co. (Pine & Spruce Lbr., Lath & Shingles)
 *Lawrence, Newhall, Page & Co. (Lumber, Box Shooks, Birch Flooring & Mill Work)
 BANGOR—*American Realty Co.
 *Ayer, F. W. & Co.
 *Cassidy, John & Son
 *Eastern Mfg. Co.
 *Engel, Wm.
 Gellerson Lumber Co. (Shingles)
 *Lowell & Engel
 *Morse & Co. (Inc.)
 *Mullen, Chas. W.
 *Rice & Kelley
 *Walker, James & Co.
 BAR MILLS—*McKenney, Chas. W.
 BATH—*Passmore, H. T. & Co. (Lumber & Mill Work)
 *Rogers Bros.
 *Shaw, M. G. Lumber Co.
 BINGHAM—*Lander & Ayer.
 BRIDGTON—*Newcomb, Geo. W.
 CALAIS—Eaton, H. F. & Sons
 *Murchie, Jas. & Sons
 CASCO—*Hancock, S. O.
 CHERRYFIELD—*Nash, W. M. & Sons
 DREW—*Sprague, M. E.
 ELLSWORTH FALLS—*Treworgy, Chas. J. (Stave Headings, Shingles & Box Shooks)
 *Whitcomb, Haynes & Co. (Spruce & Hemlock Lumber, Lath & Shingles)
 FAIRFIELD—*Lawrence, Newhall & Page (Logs & House Finish)
 FRANKLIN—*Macomber Bros.
 GARDINER—*Gray, Joshua & Sons (Lumber, Shingles & Lath)
 *Oakland Mfg. Co. (Southern Lumber)
 ISLAND FALLS—*Mattawamkeag Lumber Co.
 LIMESTONE—*Noyes, A. L.
 MACHIAS—*Machias Mfg. Co. (Lumber, etc.)
 *White, Everett I.
 MARS HILL—*York & Bros.
 MECHANICS FALLS—*Poland Packing & Mfg. Co. (Box Shooks)
 NEW GLOUCESTER—*Chandler Bros.
 NEW VINEYARD—*Hillman, G. R.

NORTH MONROE—*Fletcher, A. K.
 OLD TOWN—*Jordan Lumber Co. (Box Shooks & Lumber)
 *Wing & Engle Co. (House Finish, Box Shooks, etc.)
 PORTLAND—*Allen, Wm. A. (Wood Mantels, Tiling of all Kinds, Posts, Rails, Columns, etc., House & Church Finish), 125 Somerset
 *Berlin Mills Co. (Spruce Lumber, Clapboards, Shingles, Lath, Pickets, Dimension Boards, etc.), 404 Commercial
 Hamlin, J. H. & Son (Lumber & Box Shooks)
 *Libby, E. & Sons Co. (Lumber, Dowels & Bobbins)
 *McDonald Mfg. Co., 54 York
 *Richardson, Dana & Co. (So. Pine, Cypress & Hardwood), 331 Commercial
 *Riggs, W. W. & Co., 364 Commercial
 *Rummery, Jerome & Co., 91 Kenebec
 *Smith & Rummery, 510 Fore
 PRENTISS—*Baldwin Bros.
 PRESQUE ISLE—*Phair, Thos. H.
 RUMFORD FALLS—*Dunton Lumber Co. (Saw Mill)
 SHAWMUT—*Shawmut Mfg. Co. (Lumber & Shirley Mills—*Shirley Lumber Co. (Pulp)
 SOUTH BREWER—*Sargent Lumber Co.
 SOUTH GARDNER—*Lawrence Bros. Co.
 *South Gardiner Lumber Co.
 SOUTH JEFFERSON—*Trask Bros.
 STRONG—*Warren, Hugh M.
 VAN BUREN—*Grand Isle Lumber Co.

MARYLAND.

BALTIMORE—*Baer, R. P. & Co., Keyser bldg (Hardwood)
 *Canton Lumber Co. (Kiln Dried N. C. Pine, Ga. & Va. Sizes), Boston & Chesapeake
 *Carter, Hughes & Co. (Hardwood Mfrs.), 711 Eastern av
 *Dill, Lewis & Co. (Pine, Cypress, Oak, etc.), 500 W. Falls av
 *Edwards, B. W. Sons, 15 S. Gay
 *Gilbert, J. L. & Bro., c E Falls & Clinton ave
 Greenleaf, Johnson Lumber Co., 715 Eastern av
 *Horstmeier Lumber Co. (N. C. Pine), 305 E Falls av
 *James, N. W. & Co., 921 Aliceanna.
 *Independent Lumber & Mill Co., Friendship av, nr York rd
 Lafayette Mill & Lumber Co., 2100 W Lafayette av
 *Matthews, Thos. & Son (Timber, Yellow, White & Oregon Pine, Cypress, Oak & California Redwood), Canton av & Albermarle
 *Price, E. E. (Hardwood, Poplar & Logs also Exporting, Mfrs.), Record bldg
 *Price & Heald (Hardwood), Mfrs. Record bldg
 *Rowe, W. Lewis & Co., East Falls & Canton av
 *Ryland & Brooks Lumber Co. (N. C. & Ga. Pine & Hardwood) American bldg
 *Sbryock, Thos. J. & Co. (Pine, Hardwood, etc.), Shryock's Wharf
 *Sloan, Geo. F. & Bro. (N. C. Pine & Flooring Mouldings, etc.), 414 Light
 *Stran, Chas. T. Co., 740 Eastern av
 *Surry Lumber Co., Union Trust bldg
 *Walker & Myers, 117 Centre Market
 *Waters, Geo. E. Co., 922 Park av
 *Whitmer, Wm. & Sons, Inc., 9 E Lexington
 *Womble, Pembroke M., Elliott & Patuxent Wood, Robt. E. Lumber Co., Continental
 BELAIR—*De Ran Lumber Co. Trust bldg
 BERWIN—*Rexley Bros. (Saw Mill)
 BETHLEHEM—*Messick, A. J. (Saw Mill)
 BRANDYWINE—*Robinson, Aquila T. (Lumber & Ties)
 CAMBRIDGE—*Cambridge Mfg. Co. (Lumber, Barrels, etc.)
 *Wright, R. T. (Saw Mill)
 CUMBERLAND—*Mertens' Sons, Fredk. (Lumber, Building Materials, etc.)
 *Smouse, Thos. F. (White Oak, Car, Lumber, Union Lumber Mfg. Co.)
 SALISBURY—Adkins, E. S. & Co., Inc. (Lumber, Flooring, Box Shooks, etc.)
 Day, Wm. M. (Saw Mill)
 *Downing, Wm. J. Lumber Co.
 *Jackson Bros. Co.
 *Miller, W. B. & Co. (Lumber & Saw Mill)
 *Perry, Thos. & Bro. (Box Lumber)
 *Tilghman, Wm. B. Co. (Shingles, etc.)
 Williams, C. E. & Co. (Saw Mill)
 *Williams, L. E. & Co.

MASSACHUSETTS.

BOSTON—*Atlantic Lumber Co. (W. Lumber), 2
 *Barker, Wm. G., 10 Central Kilby
 *Bears, O. & Son Co. (Mahogany & Hardwood), 33 Broad
 *Benson, A. M., 112 Water
 *Bickford, H. M. Co. (Poplar, Hardwood & N. C. Pine), 70 Kilby
 *Bigelow, W. H., 147 Milk
 *Black & Shepard Co., 350 Albany
 *Blanchard Lumber Co., 110 State
 *Boice & Grogan Lumber Co. (Hardwood & N. C. Pine & Cypress), 4 Liberty sq
 *Booth, J. R. (Lumber, House Finish & Packing Boxes), 88 Broad
 *Boston Lumber Co. (Pine & Hardwood), 79
 *Boston Oak Pile Co., 27 Kilby
 *BOSTON-OREGON MAST CO. (Pacific Coast Lumber Products, Decking Lumber, Red Cedar, Shingles, Masts, Spars & Piling), 116 Condon, E. B. (See adv. index, end of book)
 *Buzzell, E. H., 71 Kilby
 *Chester, W. R. & Co., 17 Doane
 *Clapp, Alfred, 92 State
 *Clark & Smith (Mahogany & Veneers), 231 Medford Chsn
 *Curtis, Wm. Sons Co., 30 Eustis
 *Curtis & Pope Lumber Co., 774 Albany
 CYPRESS LUMBER CO. (Band Sawed Gulf Cypress, Long Leaf Yellow Pine, Poplar & Cottonwood, etc.), 88 Broad (See adv. index, end of book)
 *Davenport, Peters Co., 70 Kilby
 *Dearborn, C. E., 797 Commonwealth av
 *Furber, Stockford & Co., 11 Doane
 *Godfrey, L. N. Co. (Pine, Poplar & Maple & Oak Flooring), 19 Exchange pl
 *Goldsmith, F. L. (Mahogany & Cabinet Wood), 19 Chardon
 *Hammond, Edw. J. Co. (Hard & Soft Wood), 79 Milk
 *Haskins, Wm. & Son, 110 State
 *Hayford, A. W., 35 Kilby
 *Huckins, P. S. & Co., 45 Kilby
 *Hurd, Jos. A. Lumber Co. (Pine, Hardwood Lumber, Cedar Shingles, Dock Timber, etc.), 14 Kilby
 *James, E. B. Lumber Co., 16 Central
 *James & Abbott Co., 165 Milk
 *Johnson, L. S. & Co. (Mahogany & Cabinet Wood), 414 Albany
 *Jones Hardwood Co., 147 Milk
 *Lamb, B. F. & Co. (Pine, Cypress & Hardwood), 516 Albany
 *Lawrence & Wiggin (Ind. & Southern Hardwood & Imp. of Mexican Mahogany), 70 Kilby
 *Litchfield, Wm. E. (Hardwood), 70 Kilby
 *McQuesten, Geo. Co., 27 Kilby
 *Noyes, Walter D., 147 Milk
 *Palmer, Parker & Co. (Mahogany, Hardwood Lumber & Veneers), 103 Medford Chsn
 *Parker & Page Co. (N. C. Pine, Cypress & Hardwood), 30 Lancaster
 *Pratt & Co., 35 Congress
 *Richardson, A. H., Jr. (Spruce, Hemlock & Pine), 170 Summer
 *Sbepard & Morse Lumber Co. (Cypress & Hardwood), 1 Liberty sq
 *Skillings, Whitneys & Barnes Lumber Co., 45 Kilby
 *STEARNS, A. T. LUMBER CO. (Cypress, Yellow Pine, Ash & Other Wood, Doors, Sash, Blinds, Building Trim, Cabinet Work, Flooring, Shingles, Tauks, etc.), Neponset. (See adv. index, end of book)
 *Stebbins, H. B. Lumber Co., 153 Milk
 *Stetson, Cutler & Co., 70 Kilby
 *Stone Lumber Co., 4 Liberty sq
 *Sweet, Clark & Co., 8 Exchange pl
 *Weston, W. M. & Co. (Hardwood), 120
 *Wiggin, H. D. (Hardwood) Milk
 *Wood, Jas. A., 54 Kilby
 *Wood-Barker Co. (Poplar, Cypress & Southern Pine), 53 State
 CAMBRIDGE—*Gale, Geo. W. Lumber Co.
 *Wood, Wm. H. & Co., 13 B'way
 *Woods, Jno. M. Co. (Hardwood), 223 Bridge, E. C.
 CHELSEA—*Emery, Geo. D. (Imported & Domestic Cabinet Wood & Veneers)
 FALL RIVER—*Blossom, B. & Son (Hardwood, Pine, etc.), 29 Jesse
 *Erickson, G. & Bro. (Saw & Planing Mill), Blossom's av
 *Prosser, Wm. & Sons, 943 Pleasant
 FITCHBURG—*Eaton, Perley R. (Pine, Spruce & Northern Hardwoods)
 *Garno, W. A. Co. (Pine & Hardwood Lumber, Box Shooks, Builders' Finish, etc.)
 *Priest, C. A. Lumber Co. (Laths, Clapboards, Shingles, Lumber, etc.)

HOLYOKE—*Connecticut Valley Lumber Co. (Spruce, Lumber, Lath & Shingles)
LAWRENCE—*Lawrence Lumber Co. (Lumber & Mfr. Boxes)
 *Pingree, D. W. & Co. (Lumber & Mfr. Boxes)
LOWELL—*Allen, Otis & Son (Lumber, Mouldings & Boxes)
 Burnham & Davis (Shingles, Clapboards, etc.), 154 Western av
 *Cady, Geo. L. & Sons (Lumber, Packing Boxes, Box Shooks, etc.)
 *Cheney, Frank P. (Boxes, Box Shooks, Cloth Boards & Dealer in all kinds of Lumber)
 *Davis & Sargent Lumber Co. (Lumber, Packing Boxes, Planing Mill, etc.)
 *Pratt, Amasa Co. (Veneered Doors, etc.), 766 Dutton
MARBLEHEAD—Bowden, Thos. J. & Son (Saw Mill)
MILLBURY—Rice, A. W. & A. J. (Saw Mill)
MONSON—Moulton, H. D. Squier & Co.
NORTH ADAMS—Dibble, S. B. Lumber Co.
NORTH READING—*Upton, Henry A. (Saw Mill)
PRINCETON—*Bigelow, J. Elbert (Lumber & Saw Mill)
RUSSELL—Russell Lumber Co. (R. R. Ties)
SPRINGFIELD—*Augers Bros. (Shingles)
 Bartholomew, C. A. (Saw Mill)
 *Rice & Lockwood Lumber Co. (Pine, Hardwood & Shingles)
TOWNSEND—Adams, U. S. (Saw Mill, Cooperage)
 Fessenden, B. & A. D. (Saw Mill, Cooperage, Lumber)
TYNGSBORO—*Flint, A. A. (Saw Mill, Mfr. Boxes)
 Sherburne, W. A. (Saw Mill)
WALPOLE—Morse, H. A. & Co. (Saw Mill)
WARWICK—Williams, C. A. (Saw Mill)
WEST STERLING—Buck, T. & E. R. (Chair Mfr. & Saw Mill)
WEST TOWNSEND—Stickney, Clarence (Saw Mill, Cooperage, Lumber)
 Thompson, Jos. F. (Saw Mill, Cooperage)
WESTBORO—*Bartlett Box & Lumber Co. (Saw Mill)
WEST BOYLESTON—Lowe & Flagg (Saw Mill, Mfr. Boxes)
WEST BRIDGEWATER—*Lyon, A. S. (Saw Mill)
WORCESTER—*Arnold, F. O. (R. R. Ties & Saw Mill), 887 Mulberry
 *Cooperative Builders Finish Co. (Doors, Sash, Blinds, etc.)
 Griffin, W. B. & Co. (Hardwood Flooring, Builders' Finish)
 Worcester Box & Lumber Co. (Box Shooks, Backing Boxes, etc.), 13 Blackstone

MICHIGAN.

ALANSON—Markham, M. S. (Shingles & R. R. Ties)
ALPENA—*Besser Mfg. Co. (Shingle & Stave Mill)
 *Churchill Lumber Co. (Lumber & Saw Mill)
 *Davison, Samuel A. (Shingle & Saw Mill)
 *Eales Bros. & Co. (Shingles & Ties)
 *Fletcher, Geo. N. & Sons (Lumber & Saw Mill)
 *Gilchrist, F. W. (Pine, Maple Flooring, Red Cedar Shingles, etc.)
 *Holmes & Nicholson (Lumber, Cedar & Hemlock Bark)
 *Masters, Geo. & Co. (Shingle Mill)
 Michigan Veneer Co.
 Nicholson, Geo. R. & Co. (Lumber, Lath, Cedar Ties, Shingles)
 Northern Planing Mill Co. (Lumber)
 *Richardson Lumber Co. (Lumber & Saw Mill)
 *Sanborn, W. H. (Lumber & Cedar)
ANN ARBOR—*Luick Bros. & Co. (Lumber & Interior Finish)
ARCADIA—Stark, Hy. Land & Lumber Co. (Saw Mill)
ASHLEY—Chittenden, C. E. & Co. (Hardwood, Staves & Headings)
AU SABLE—*Louds, H. M. Sons Co. (Pine & Cedar Poles)
BANNISTER—Letts, R. G. (Saw & Planing Mill)
BAY CITY—Bay City Box & Lumber Co. (Black & Fox (Pine & Hardwood))
 *Bradley, Miller & Co., Inc. (Lumber, Shingles, Lath & Box Shooks)
 *Campbell-Brown Lumber Co. (Hardwood, Saw Mill)
 *Eddy Bros. & Co. (White Pine & Mill Work)
 *Foss, E. B. & Co. (White Pine Lumber, Laths & Shingles)
 *Godkin, John (Saw Mill)
 *Goldie Mfg. Co. (Cooperage Stock)
 *Handy Bros. (Box Shooks)
 Hanson-Ward Veneer Co.

*Hope Lumber Co. (Timber & Lumber)
 Kerr & Newcomb (Hardwood)
 *Kneeland, Bigelow Co. (Saw Mill & Hardwood)
 *Lamont, Matthew (Planing Mill, Lumber, Sash, Doors, etc.)
 *Lewis Mfg. Co. (Sash, Doors, Lumber)
 *Maltby Lbr. Co. (Ties, Posts & Poles)
 Mengel, E. & Co. (Pine & Box Shooks)
 *Merchon-Bacon Co. (Lumber & Box Shooks)
 *Michigan Cedar Co. (Poles & Ties)
 *Nickless, W. H. (Box Shooks & Crates, Flooring & Car Planing)
 Vance, E. J. Box Co. (Box Shooks)
 Wentworth, J. & G. K. (Logs & Lumber)
 ***WOODWORTH, F. T. & Co.** (Sash, Water)
 Wylie & Buell Lumber Co. (Timber, etc.)
 *Young, W. D. & Co. (Hardwood Lumber & Flooring)
BEAR LAKE—Hopkins, Geo. W. (Lumber, Bark, etc.)
BELLAIRE—Potter, C. C. & Co. (Saw Mill)
BENTON HARBOR—Peninsular Lumber Co. (Lumber & Planing Mill)
 *Preston, W. A. (Lumber & Interior Finish)
BEZONIA—Cass Bros. Lumber Co.
BIG RAPIDS—*Hood & Wright (Veneer & Panels)
 *Ward Bros. (Bicycle Woods & Lumber)
BLOUNT—*Blount, C. H. (Lumber & Cedar)
BOYNE CITY—Boyne City Lumber Co.
 *Von Platen, Geo. (Lumber & Saw Mill)
 *White Veneer Co. (Hardwood Veneer & Trunk Slats)
 *White, W. H. Co. (Hemlock, Maple, Soft & Rock Elm, Basswood, Beech, Cedar, Shingles, Tan Bark, etc.)
CADILLAC—Anderson, A. F. (Lumber & Saw Mill)
 Cobbs & Mitchell (Maple Flooring, etc.)
 *Cummer, Diggins & Co. (Hemlock & Maple Flooring)
 *Goldie, Jno. S. (Hardwood & Hemlock)
 *Mitchell Bros. Co. (Maple, Red Oak, Beech Flooring, Basswood Bevel Siding, Mich. Hardwood, Hemlock Lumber & Lath)
 *Murphy & Diggins (Hardwood, etc.)
CALUMET—*Armstrong-Thielman Lumber Co. (Lumber, Lath, Shingles, Mouldings, etc.)
CAMDEN—*Chester, O. D. (Saw Mill)
CARO—Heardt, Wm. A.
CEDAR—*Sullivan, Jerry (Shingles)
CEDAR RIVER—*Crawford Samuel & Sons (Lumber)
CENTRAL LAKE—Central Lake Lumber Co. (Staves, etc.)
CHARLESVOIX—Charlevoix Lumber Co. (Hardwood, Hemlock & Pine)
CHARLOTTE—Huber, E. S. (Saw Mill)
CHEBOYGAN—*Embury, S. Harris
 *Embury & Sons Lumber Co. (Wholesale)
 *Littlejohn, L. Martin (Shingle Mill)
 Lombard & Rittenhouse (Cedar Ties, Poles & Lumber)
 *McArthur, W. & A. Co. (Wholesale)
 *McLeod, Wm. (Shingle Mill)
 *Nelson Lumber Co. (Lumber & Saw Mill)
 Olds, M. D. (Lumber, Lath & Staves)
 Quay & Sons (Shingle Mill, Wholesale)
COLEMAN—*Curtice, J. E. (Cooperage)
CONWAY—*McFarlane Bros. (Saw Mill)
DAGGETT—*Kessler, J. (Lumber & Cedar)
 Perrizo & Sons (Cedar)
 Weng, L. E. & Son (Cedar)
DETROIT—*Alger, Smith & Co. (Long Pine Timber), Union Trust bldg
 Anketell Lumber Co., Majestic bldg
 *Beyster, John (Lumber, Planing Mill & Box Factory), 1875 Fort W.
 *Brownlee & Co. (Lumber & Telegraph Poles), Telegraph bldg
 *Detroit Cedar & Lumber Co., (Ties, Poles Lumber), Chamber of Com.
 *Detroit Lumber Co. (Lumber & Saw Mill), Ft. Chene
 *Dwight Lumber Co. (Maple & Oak Flooring & Cigar Box Lumber, etc.), Rouge River & M. C. R. R.
 *Forman, Thos. Co. (Maple & Oak Flooring, Bored & Matched)
 *Grace Harbor Lumber Co. (Hardwood, White Pine, Norway, Hemlock, etc.), 1389 River
 *Hornung, J. T., Cham. of Com. bldg
 *Hunton & Co., 88 Griswold
 *Hunton, Weeks & Co., 1013 Russell
 *Kotcher, C. W., 649 Gratiot av
 *Leech, Roche & Co., M. C. R. R. & 24th
 *McArthur Bros. Co., Brady blk
 *McClure Lumber Co. (Hardwood, etc.), 520 Franklin
 *Manistique Lumbering Co., Union Trust bldg
 *Morley, Geo. & Co., 520 Atwater, E.
 *Moyer, W. & Co., Majestic bldg
 National Mfg. Co. (Slack Cooperage Stock for Flour, Cement, Lime & Sugar Barrels)

*Nester, Thos. (Est. of), (Mills, Pine Lands, Lumber), Majestic bldg
 *Ouellette, Thos., Lumber Co. (Hardwood), 162 Griswold
 *Pitts & Carlton (Lumber & Lath), Campau bldg
 *Ross, Fred C., Cham. of Com. bldg
 *Sibley, F. M. Lumber Co., Kercheval av & M. C. R. R. Belt Line
 *Stephens, Henry & Co., Park bldg
 *Thelsen, Michael J. (Saw Mill & Hardwood Lumber), 994 Scott av
 *Weber, J. F. & Co. (Lumber & Planing Mill), 304 Gratiot av
DICKINSON—*Squier, F. W. (Saw & Shingle Mill)
DOLLARVILLE—*Danaher Hardwood Lumber
DOWAGIAC—*Judd, Mark & Son Co.
 *Lindsley, J. A. & Co.
EASTLAKE—*Peters, R. G. Salt & Lumber Co. (Lath, Lumber, Ties, etc.)
EAST JORDAN—*Black Land & Lumber Co. (Lumber, Saw, Shingle & Planing Mills)
EAST TAWAS—*Ottawa Hardwood Co.
ERDMORE—*Pfeiffer & Burch (Shingles)
ESCANABA—*Erickson & Bissell (Piling, Ties Perron, M. (W. Cedar) & Posts)
ESSEXVILLE—Courval & Co. (Shingles)
EVART—Darry & Co. (Inc.) (Shingles)
FERRY—Powers & Critchett (Lumber & Lath)
FLAT ROCK—Metler, Geo. W. & Son (Saw Mill)
FOSTER CITY—Morgan Lumber & Cedar Co. (White Pine, Idaho Pine, Basswood, Ash, Elm, Maple, Oak, Hemlock, etc.; Shingles, White Cedar, Red Cedar & Pine)
FANKENMUTH—Veitengruber Bros. (Saw & Planing Mill)
FRANKFORT—*Bellows Bros. (Saw & Planing Mill)
 *Butler, Digby B.
 Perue, J. H. (Lumber, Bark, etc.)
FREEPORT—*Fox, W. & Co. (Saw & Planing Mills & Lumber)
GAGETOWN—Quinn & Fahrenkopf (Saw Mill)
GARTH—*Garth Lumber & Shingle Co.
GAYLORD—Humphreys Bros. (Planing & Saw Mills)
GLADSTONE—*Northwestern Cooperage & Lumber Co.
GLADWIN—Bliss, Chas. S. (Saw Mill & Lumber)
GLENWOOD—Hampton Stock Farm Co. (Saw Mill & Mfr. Staves & Headings)
GOBLEVILLE—*Clement, J. L. & Sons (Saw & Planing Mill)
GRAND HAVEN—*Kilbourn & Kilbourn (Inc.), (Lumber Cooperage Tubs & Kegs)
 *Millman, H. G. & Co. (Veneered Doors)
GRAND MARIAS—*Cook, Curtis & Miller (Inc.), (Staves & Headings)
 *Marias Lumber Co.
 *Stone, Chas. E. (Lumber & Shingles)
GRAND RAPIDS—Allendale Timber Co., 235 S. Market
 Ayer, T. M. (Hardwood & Hemlock), Michigan Trust bldg
 Bacon, C. S. Co. (Lumber, Lath & Shingle), Michigan Trust bldg
 *Bacon Lumber Co.
 *Barrett, W. E. & Co. (Lumber, Lath & Shingles), Houseman bldg
 *Dennis Bros. (Hardwood), Michigan Trust
 Dupree, John & Co., 329 Taylor Co. bldg
 Engel Land & Lumber Co., Houseman blk
 Evans & Retting Lumber Co., Michigan Trust bldg
 *Follmer, C. C. & Co. (Lumber & Shingles)
 *Foster-Winchester Lumber Co. (Hemlock & Hardwood)
 *Fuller & Rice Lumber & Mfg. Co. (White Pine, Hemlock, Hardwood, etc.)
 Hackley-Phelps-Bonnell Co. (Bark & Hardwoods), Michigan Trust bldg
 Halladay Lumber Co., 9th & G. R. & I. Ry.
 *Hughart, W. O., Jr. (Hardwood), Michigan Trust Co. bldg
 *Hughart & Kendall (W. Hardwoods), Michigan Trust Co. bldg
 Letellier, F. & Co. (Planing Mill, etc.), 222
 Mercer & Ferdon Lumber Co., Canal
 *Michigan Barrel Co. (Barrels, Boxes, Bentwood)
 *Michigan Maple Co. (W. Hardwoods)
 National Cooperage Co.
 Spear, C. A. & Son (Lumber, Planing mill)
 Stearns Co., The (W. Lumber)
 Stiles Bros., 1st av & M. C. R. R.
 *Thompson, B. R. Lumber Co. (Hardwood), Michigan Trust bldg
 Van der Berg & Van der Veen Co., 140 Crosby
 *Wagner, G. N. Shingle Co. (Pine & Red Cedar Shingles & Pine & Hemlock Lumber), Michigan Trust Co. bldg
 *White & Faint Lumber Co., Michigan Trust bldg
 *Winchester & Daniels (Pine & Cedar Shingles)
 *Zipp Bros. (Hardwood), Houseman blk

GRAYLING—*Sailing, Hanson & Co. (White
Cork & Norway Pine)
GREENVILLE—*Foster, Jno. J. Lumber Co.
HARBOR SPRINGS—*Harbor Springs Lumber
Johnson & Crowl (Saw Mill) Co.
HARDWOOD—Anderson, P. J. (Cedar Timber)
HARRIETTE—Fellers Bros. (Saw Mill Staves,
etc.)
HART—*Bennett Lumber Mfg. Co.
Hart Cedar & Lumber Co.
HARTFORD—Walker, L. P. (Saw Mill & Hoop
Mill)
HASTINGS—*Harper, J. S. & Co. (Lumber &
Shingles)
HERMANSVILLE—*Wisconsin Land & Lumber
Co. (Hemlock & White Pine Lumber,
White Cedar Shingles, Basswood Ceiling,
Siding, Mouldings, Hardwood Flooring, etc.)
HOLLAND—*Kleyn Lumber Co. (Lumber, Lath,
Shingles)
HOLLY—*Michigan Mfg. & Lumber Co.
INGALLS—*Corley, Ira (White Cedar Posts,
Dobies, Cedar) Poles & Shingles)
IRONWOOD—*Scott & Howe Lumber Co.
ITHACA—Naldrett, W. T. (Saw Mill)
KALKASA—*Bockes, Mahan & Co. (Lumber &
Shingles)
KENTON—*Sparrow-Kroll Lumber Co.
KINGSLEY—*Case & Crotser
*Dunn, Wesley
LAKE ANN—*Habbeler, Wm. Co. (Lumber,
Cooperage, etc.)
LAKE CITY—*Ardis, S. B. Land & Lumber Co.
(Saw & Shingle Mill)
Frey, Alton S. (Saw Mill)
LAKEVIEW—*Macomber & Ball (Lath & Shin-
gles)
LAPEER—*King, Rob't Lumber Co. (Lumber,
Lath & Shingles)
LEWISTON—*Michelson & Hanson Lumber Co.
LUDINGTON—*Butters Salt & Lumber Co.
Cartier Lumber Co.
*Rath, H. G. (Lumber & Shingles)
*Stearns, J. S. (Lumber, etc.)
LUPTON—*Bates, W. A. (Saw & Planing Mill)
McBAIN—*Cromwell Lumber Co. (Hardwood)
MANCELONA—Wilcox, Dey W. (Saw Mill &
Lumber)
MANISTEE—*Buckley & Douglass Lumber Co.
(Timber, Lath & Shingles)
*Filer, D. L. & Sons (Saw Mill, Lumber)
*Sands, Louis Lumber Co. (Pine, also Lath
& Shingles)
*State Lumber Co. (Lumber & Shingles)
MANISTIQUE—*Chicago Lumbering Co.
*Weston Lumber Co. (Saw Mills & Lumber)
MANTON—*Clark, F. N. (Hemlock Bark &
Timber)
*McAfee, A. & Co. (Staves & Headings)
Northrup, Martin (Saw & Planing Mill)
*Williams Bros. Co. (Laths & Lumber)
MAPLE RAPIDS—*Jones, Jas. E. (Saw Mill &
Oar Mfr.)
MARINE CITY—*Lindow Bros. & Beers Co.
Planing Mill Lumber & Mfrs' Tables)
MARION—Wagner & Gilmore (Shingle)
MANFIELD—*Mansfield Mill Co. (Shingle Mill)
MARQUETTE—*Marquette Box & Lumber Co.
*Read, F. W. & Co. (Lumber, Lath, Shin-
gles, Pickets & Mouldings)
MARYSVILLE—*Mills, N. & B. (Pine & Bridge
Timber)
MAYFIELD—*Gibbs, Mrs. J. L. (Saw & Shingle
Mill)
MENDON—Austin Co., F. (Lumber & Planing
Mill)
MENOMINEE—Crawford Mfg. Co. (Boxes)
*Dominion Lumber Co.
*Girard Lumber Co. (Pine, Hemlock, Hard-
wood & Cedar Lumber, Lath, Pickets &
Holmes, Wm. & Son (Loggers) Piling)
*Huebel, C. J. Co. (Lumber, White Cedar
Poles, Posts & Shingles)
*Kirby-Carpenter Co. (Saw Mill)
*Menominee Bay Shore Lumber Co. (Pine,
Hemlock, Hardwood & Cedar Lumber,
Lath & Shingles)
*Menominee River Shingle Co. (Cedar Shin-
gles)
*Menominee White Cedar Co. (Shingles)
Peninsula Box & Lumber Co. (Box Shooks &
Boxes)
*Spies, August Lumber & Cedar Co. (Pine,
Hemlock & Cedar Lumber, Lath & Shingles)
*Wells, John M. Lumber Co. (Pine, Hemlock,
Hardwood & Cedar Lumber, Lath & Shin-
gles)
*White Pine Lumber Co.
*Wolverine Cedar & Lumber Co. (Cedar &
Lumber)
MESICK—*Mesick Mfg. Co. (Headings, Lumber,
etc.)
MICHIGAN CITY—Larson, S. W. & Co. (Hem-
lock, etc.)
MIDDLETON—*Middleton Cooperage Co.
MIDLAND—*Brown, Chas. (Lumber & Planing
Mill)
MILLERSBURG—Hamilton, J. T. (Saw Mill)
Holihaan, R. P. (Lumber, Logs & Cedar)
MILLERTON—Squire, S. D. (Shingle Mill)
MONROE—*Sterling, W. C. & Son Co. (Hard-
wood & Hemlock)

MOUNT PLEASANT—*Butcher, J. F. & Co.
Hardwood, Pine & Hemlock Lumber &
Shingles)
MUNISING—*Great Lakes Veneer Co.
MUSKEGON—*Alberts, Frank & Sons (Mfrs. &
Wholesalers of Lumber & Shingles)
*Gow & Campbell (Mfrs. & Wholesalers of
Lumber)
*Gray Mfg. Co. (Interior Finish & Makers
of Card Indexes)
Houseman, C. L. (Lumber, etc.)
Hume-Bennett Co. (Saw Mill, Lumber)
*Hutchinson, Malcom (Cooperage)
*Jones, Wm. R. (Saw Mill Mfrs.; Custom
Work Only)
*Mann, Watson & Co. (Planing Mill &
Wholesale & Railroad Lumber)
*Munroe & Brinco (Wholesale Lumber), Logs
being manufactured by Custom Mills
*Thayer Lumber Co. (Saw Mills & Wholesale
Lumber, Lath & Shingles)
NADEAU—*Nadeau Bros. (White Cedar & Hard-
wood)
*Nessen City Mfg. Co. (Lumber, Staves,
Lath, etc.)
NOLAN—Coan Lumber Co. (Saw Mill)
NORTHPORT—Kehl Bros. (Wood, Bark, Ties)
*Northport Lumber Co. (Saw & Planing Mill)
NORTHVILLE—*Dubuar, J. A. Mfg. Co.
OMER—*Gormie & Kent
Kent, Andrew (Logs & Lumber)
ONAWAY—*American Wood Rim Co.
Gardner & Peterman (Staves & Heading)
*Lobdell & Bailey Mfg. Co. (Hardwood
Lumber, Shingles, Maple Flooring, Ties,
Poles & Posts)
ONTONAGON—*McMillan, C. V. Co. (Lumber,
Lath, Planing Mill)
*Ontonagon Lumber & Cedar Co.
*Ontonagon Stave & Veneer Co.
OSCODA—*Hull & Ely
PARK LAKE—*Duroy Mfg. Co. (Lumber & Han-
dles)
PELLSTON—*Bogardus, Chas. (Shingle Mills)
Neilson, N. C. (Shingle Mill)
PENTOGA—*Hood, F. G. Co. (Staves, Heading
Lumber & Shingles)
PENTWATER—*Sands & Maxwell Lumber Co.
PEQUAMING—*Hebard, Chas. & Sons (Inc)
Saw & Shingle Mill)
PETOSKEY—*McManus, L. L. Lumber Co.
(Hardwood & Soft Lumber)
Merchant, F. D. (Saw Mill)
*Petoskey Block & Mfg. Co. (Lumber &
Butchers' Blocks)
PHELPS—Peterson, N. P. & Co. (Saw Mill)
PORT HURON—*Haynes, F. J. & Co. (Lath,
Shingles, Lumber, Posts, etc.)
PRESCOTT—Cliff Mfg. Co. (Shingles & Lumber)
PROVEMONT—*Putnam Lumber & Cooperage
Co. (Saw Mill & Cooperage)
PHELPS—Peterson, N. J. & Co. (Saw Mill)
RABER—*Mud Lake Lumber Co.
RAPID CITY—St. Louis Hoop & Stave Co.
(Hoops & Staves)
RAPID RIVER—Madden, Jerry Shingle Co.
(Shingles, etc.)
REED CITY—*Horner, Wm. (Hardwood Floor-
ing)
*Welsh Mfg. Co. (Flooring)
RICHMOND—Weston, Geo. W. (Lumber, Plan-
ing Mill, Sash, Doors, Blinds)
ROBBINS—Jentz, Fred (Shingle Mill, Cedar,
etc.)
ROSE CITY—*Prescott, Miller & Co (Saw Mill,
Lumber)
Rose City Mfg. Co. (Cooperage Stock)
SAGINAW—*Batchelor Timber Co. (Saw Mill
& Lumber)
Boman Lumber Co (Saw Mill & Lumber)
*Bliss, C. S. (Flooring, Shingles, Lath, etc.)
M. C. R. R. Crossings
*Bliss & Can Auker (Maple Flooring, Lath,
& Shingles), 1100 S. Niagara
*Booth & Boyd Lumber Co. (Lumber, Lath,
Shingles & Mill Work)
*Brand & Hardin (Shingles)
Brewer, F. P. & W. A. (Timber, etc.)
*Briggs & Cooper Co. (Pine, Oak, Ash, Cedar
Shingles, etc.)
Burrows & Rust (Lumber)
Cornwell, Lewis (Estate of) (Saw Mill, Lum-
ber)
*Davis, Chas. H. (Lumber, Logs, etc.)
*Davis Lumber Co.
*Derry, Stephen F. (Hardwood, Car & Trade
Eastman, S. L. Flooring Co., a Specialty)
*Eddy, C. K. & Sons (Inc.) (White Pine)
Eddy & Glynn (Lumber & Logs)
Fleischman, Jno. L.
*Fordney, J. W., Merrill blk (Lumber & Logs)
*Furstenberg Bros.
Galloway-Pease Co. (W. Lumber)
*Germain, Edw. (Planing Mill, Lumber)
Germain & Boyd Lumber Co (Saw & Planing
Mill)
*Hill, Arthur & Co. Ltd (Pine Lumber)
Hill-Drummond Lumber Co.
*Jackson, Wylie & Co. (Hoops & Staves)
Kuehl, Chas. W. (Tan Bark & Lumber)
Loveland & Stone (Saw Mill, Lumber)

McCarty, E. R. (Commission Merchant), 112
Gencsee av
*McCormick, E. W., (Hardwood & Lumber)
Markey, Wm. T. (Hardwood, Lumber &
Shingles)
*Mershan, Schuette, Parker & Co. (Lumber,
Box Shooks, Shingles & Mill Work)
*Morse Cedar Co. (Cedar Shingles, Ties,
Otter Creek Lumber Co. (Lumber & Saw
Mill)
Phillips & Seeley (Lumber, Lath & Shingles)
Poles & Posts, Norway & Hemlock Lath,
Spiral Timber, etc.)
Richardson, E. Co. (The) (Timber)
*Rupp, J. J. (Pine Logs & Lumber) Bearing-
er bldg.
*Saginaw Hardwood Lumber Co. (Hardwood)
*Saginaw Lumber & Salt Co.
Saginaw & Manistee Lumber Co.
*Slade, Lewis C. (W. Lumber & Shingles)
Wylie, J. T. & Co. (Slack Cooperage Stock
for Flour, Sugar, Cement, etc.)
ST. IGNACE—*Connor & Bissel
*Jamieson, J. A. Lumber Co.
SANTIAGO—*Wheeler, Dove & Co. (Staves &
Headings)
SCHOOLCRAFT—*Fellows, L. L. (Hardwood)
SEBEWAING—*Liken & Bach (Stable & Head-
ing)
SHERMAN—Chadwick, Dau'l O. (Saw & Plan-
ing Mill)
Claggett, M. J. & Co. (Staves & Headings)
Sturtevant, H. B. (Lumber)
SIDNAW—*Prickett, Walter S. (Timber, etc.)
STURGEON BAY—Kluse, A. B. Lumber Co.
TALLMADGE—Root, W. S. & Son (Saw & Shin-
gle Mill)
TANNER—Williamson & Good (Hardwood)
TEKONSHA—Randall, A. H. Saw Mill Co.
(Saw Mill)
TEMPLE—*Temple Mfg. Co. (Tie & Staves)
THOMPSON—*North Shore Lumber Co.
*Thompson Lumber Co.
TORCH LAKE—*Cameron Lumber Co. (Lumber
& Shingles)
TOWER—Finan & Finan (Shingles & Cedar)
TRAVERSE CITY—*Beitner, Wm.
Grelick, J. E. Co. (Lumber, Planing &
Saw Mill)
Hull, Longnecker Co. (Lumber)
*Kelley Shingle Co.
*Ott, John F. Lumber Co., E. End Bay
Smith & Hull Co. (Timber, Logs, Bark &
Wood)
TURNER—Eymmer, Myron H. (Saw Mill)
TWINING—*McCready, John (Saw Mill & Lum-
ber)
UNION CITY—Union City Lumber Co.
VAN—*Van Every Bros. (Lumber, Ties, Posts)
VANDERBILT—Olds & Hixson (Stave Mfrs.)
Yuill Bros. (Loggers)
VANS HARBOR—*Vans Harbor Land & Lumber
Co.)
VERMONTVILLE—Fuller Bros. (Saw Mill)
VULCAN—*O. C. Lumber Co.
WALLOON LAKE—Walloon Lake Lumber Co.
WEIDMAN—Weidman, John S. (Saw Mill)
WATERS—Stephens Lumber Co.
WELLS—*Ford River Lumber Co.
*Stephenson, The I. Co. (Maple Flooring)
WHITEHALL—*Covell, Lyman T. (Lumber,
Lath & Shingles)
*Nufer Cedar Co. (Lumber, Shingles & Tin
Plate Boxes)
WOLVERINE—Guelph Patent Cask Co. (Veneer
& Hopp Mfrs.)

MINNESOTA.

ADA—*Wild Rice Lumber Co.
AITKEN—De Laittre, C. P. (Logs)
*Gyde, E. A. (Staves & Hoops)
*Hodgeden & McDonald (Saw Mill)
Knox, Geo. W. (Lumber)
Shook & Blair (Loggers)
ALBERT LEA—Minnesota Lumber Co.
ARLINGTON—*Schmoll & Hilleman
CLOQUET—*Cloquet Lumber Co. (White Pine
Lumber & Saw Mill)
Cloquet Tie & Post Co.
*Johnson-Wentworth Co. (White Pine Lum-
ber, Lath & Shingles, Saw Mill)
*Northern Lumber Co. (White Pine Lumber
DULUTH—*Day Bros. Lumber Co., Palladio bldg
Duluth Log Co. (Wholesale Poles, Posts, etc.)
Duluth Lumber Co., 364 Garfield av
*Duncan, Brewer & Co., Lyceum bldg
*Heimbach Lumber Co., 20 E. Railroad
*Lesure Lumber Co., Providence bldg
*Martin, L. R., 18 N 5th av (Cedar Posts,
Poles, Ties, Lumber)
*Merrill & Ring Mill Co., St. Louis Bay ft.
of Main
*Norton Lumber Co., Manhattan bldg
*Potter, G. A., Providence bldg
*Red Cliff Lumber Co. (Lumber, Lath &
Shingle)
*St. Louis Lumber Co., Providence bldg

*Scott-Graff Lumber Co. (Lumber, Lath, Shingles, Pickets, Hardwood, Red & White Oak, Birch, Ash, etc.), 2402 W Mich.
 *Split Rock Lumber Co., St. Louis Bay, ft. (Main)
 *Swallow & Hopkins, Exchange bldg
 *Turlish, Henry (Lumber)
 *Virginia & Rainy Lake Lumber Co.
 *Virginia Lumber Co.
 §Woodruff Lumber Co., Garfield av
 FRAZEE—Nichols & Chisholm Lumber Co.
 GRAND RAPIDS—*Knox, L. F. & Co.
 GRANITE FALLS—McGregor Bros. & Co.
 HIBBING—Swan River Logging Co.
 LITTLE FALLS—*Pine Tree Lumber Co. (White Pine & White Cedar Posts, Shingles, etc.)
 MAYNARD—*Maynard Lumber Co.
 MINNEAPOLIS—*Backus-Brooks Co. (White Pine), Andrus bldg
 §Bailey, Wm. C. (Hardwood), 600 Central av
 *Bovey-De Laitre Lumber Co., 3d c 13th av
 *Bovey-Shute Lumber Co., Andrus bldg
 *Bowman, S. H. Lumber Co., Lumber Exchange
 Brooks Bros., 1923 University change
 Brooks-Scanlon Lumber Co., Security Bk bldg
 *Buswell Lumber & Mfg. Co., Lumber Exchange
 *Carpenter-Lamb Co. (White Pine), Security Bk bldg
 Carpenter, W. I. Lumber Co. (Red Cedar Shingles, Siding & Finish Spruce & Fir), Lumber Exchange
 *Coolidge, Marshall H. Co. (Cedar Products), Guaranty bldg
 §Curran, W. H. & Co., Lumber Exchange
 §Dolliff, L. P. & Co., Lumber Exchange
 §Fullerton Lumber Co., Lumber Exchange
 §Gull River Lumber Co., Lumber Exchange
 *Itasca Lumber Co., 2800 Wash'n. N.
 International Lumber Co., Andrus bldg
 *Johnson, W. W. Lumber Co., Lumber Exchange
 §Lewis, F. H. & Co. (Fir Timber & Idaho Cedar Poles)
 McCulloch, John Lumber Co., Andrus bldg
 *McMullen Lumber Co. (Wholesale Fir & Cedar Lumber), Lumber Exchange
 §Minneapolis Lumber Co., Lumber Exchange
 *Mississippi River Lumber Co., (Kasota bldg)
 *Nelson-Tuthill Lumber Co. (White Pine), Lumber Exchange
 §Osborne & Clark (Hardwood), Lumber Ex
 *Park Rapids Lumber Co., Lumber Exchange
 *Partridge, T. M. Lumber Co., Lumber Ex.
 *Pendleton & Gilkey, Security Bk bld
 *Red River Lumber Co., 807 Hennepin av
 *Shevlin-Carpenter Co. (White Pine, Lumber, Lath & Shingles), 4th av North & the River
 *Smith, C. A. Lumber Co. (Lumber & Box Shooks), 44th & Lyndale av
 Smith, C. A. Timber Co., Andrus bldg
 *Waite, H. B. Lumber Co. (Pine & Red Cedar Shingles)
 ST. PAUL—*Coast Lumber Co. (Lumber & Shingles, Nat. Ger.-Am. Bk. bldg)
 §Edwards, W. C. Lumber Co., Manhattan
 Gribben Lumber Co., 194 E 7th bldg
 *Jefferson & Kasson (White Pine, Lumber & Cedar Shingles), Nat'l G. A. Bk. bldg
 *Martin, John Lumber Co., 217 Como av
 *Nolan Bros. & Laird (White Pine & Hardwood; also Lath & Shingles), Manhattan bldg
 *Weyerhaeuser & Co. (White Pine), Nat'l G. A. Bk. bldg
 STILLWATER—*Tozer, David Co. (White Pine)
 THIEF RIVER FALLS—*Thief River Falls Lumber Co.
 TOWER—*Howe Lumber Co. (Lumber, Lath & Shingles)
 VIRGINIA—*Bailey, W. T. Lumber Co. (Saw Mill)
 WILLOW RIVER—*Atwood Lumber Co. (White Pine)
 WINNONA—*Bolcom, H. C. Lumber Co. (White Pine)
 *Empire Lumber Co. (White Pine, Lath & Shingles)
 *Laird, Norton Co. (White Pine)
 Standard Lumber Co.
 *Winona Lumber Co. (White Pine)
 *Youmans, C. M. Lumber Co. (White Pine)

MISSISSIPPI.

ABEL—Wright Lumber Co. (Saw Mill)
 BENTONIA—*Link, Newcomb Mill & Lumber Co. (Hardwood)
 BEXLEY—*Greene County Lumber Co.
 BILOXI—*Biloxi Lumber Co.
 BOGUE CHITTO—*Brister, B. E. Saw Mill Co. (L. Yellow Pine)
 BOND—*North, J. E. Lumber Co. (L. L. Yellow Pine)
 BROOKHAVEN—*East Union Lumber & Mfg. Co. (Yellow Pine)

*Kent, Amos Lumber & Banking Co. (Yellow Pine)
 *Moreton & Helms Lumber Co. (Yellow Pine)
 *Pearl River Lumber Co. (Yellow Pine)
 BROOKLYN—*Griffin, W. C. Land Co. (Saw Mill)
 CHATAWA—*Stevens, A. W. Lumber Co. (Yellow Pine)
 CHICORA—*Robinson Land & Lumber Co. (Yellow Pine, Timber & Rift Flooring)
 COLLINS—*Williamsburg Lumber Co. (L. L. Yellow Pine, Bridge Timbers, etc.)
 *Wood, W. C. Lumber Co. (Yellow Pine)
 CORINTH—*Pocahontas Lumber Co.
 *Seaman Stave Co.
 *Small, W. E. (Spokes)
 ELLISVILLE—*Anchor Saw Mill Co.
 *Ellisville Lumber Co. (L. L. Yellow Pine, etc.)
 EPPS—*Wildier, J. F. (Yellow Pine)
 FERNWOOD—*Fernwood Lumber Co. (L. L. Yellow Pine)
 GLADE—Glade Lumber Co. (Saw Mill)
 GLOSTER—Robinson, W. L. Lumber Co. (Saw Mill)
 GLOVER—*Knight Lumber Co. (Cypress, etc.)
 GREENVILLE—Alexander Lumber Co.
 GULFPORT—Holmes & Herrick Lumber Co. (Wholesale)
 HATTIESBURG—*Brookhaven Lumber & Mfg. Co. (Yellow Pine)
 *Hattiesburg Lumber Co. (Planing Mill, etc.)
 *Pole Stock Lumber Co.
 Tatum Lumber Co. (Saw Mill)
 *Yellow Pine Mfg. Co.
 HAZLEHURST—*Hazlehurst Lumber Co. (Yellow Pine)
 HOLLYWOOD—*Hunter, C. W. & Co. (Saw Mill, Lumber, etc.)
 ITTABENA—*Rucker Bros. (Saw Mill & Lumber)
 JACKSON—Bonds, C. A. (Wholesale Shingles)
 *Burleighs, R. G. Sons, Ltd. (Staves)
 *Empire Lumber & Mfg. Co. (Yellow Pine)
 *Enochs Bros. (Yellow Pine)
 National Lumber Co. (Yellow Pine)
 KOLA—*Kola Lumber Co. (Yellow Pine)
 LAKE—*Merrilla Co. (Saw Mill)
 LAUREL—*Eastman, Gardiner & Co. (L. L. Yellow Pine)
 *Kingston Lumber Co. (L. L. Yellow Pine)
 LELAND—Darnell-Love Lumber Co.
 LOGTOWN—*Weston, H. Lumber Co. (L. L. Yellow Pine)
 LUCEDALE—*K. C. Lumber Co. (Yellow Pine)
 LUMBERTON—*Camp & Hinton Co. (Yellow Pine)
 *Hinton Bro. Lumber Co. (L. L. Yellow Pine)
 *Pearson, J. C. Lumber Co. (Saw Mill)
 LYMAN—Ingram-Day Lumber Co. (Saw Mill)
 MACOMB CITY—*White, J. J. Lumber Co. (L. L. Yellow Pine, Kiln Dried, Dressed Flooring)
 MEEHAN JUNCTION—*Cotton State Lumber Co.
 MERIDAN—*Grant, M. R. (L. L. Yellow Pine)
 Gray, C. L. Lumber Co.
 MERRILL—Dressler-Hammond Co. (Saw Mill)
 MISH—*Pine Lumber Co. (Yellow Pine)
 MOORHEAD—*Moorhead Mfg. Co. (Saw Mill)
 MOSS POINT—*Dantzler, L. N. Lumber Co. (Yellow Pine & Rift Flooring)
 *Denny, W. & Co. (L. L. Yellow Pine)
 McIntosh Lumber Co.
 Wyatt Lumber Co.
 MOUNT OLIVE—*Bentley & Ward (Saw Mill)
 NATCHEZ—*Learned, R. F. (Cypress)
 NORFIELD—*Butterfield Lumber Co. (Yellow Pine)
 ORA—*Easterling Lumber Co. (Yellow Pine)
 ORVISBURG—*Champion Lumber Co. (Yellow Pine, Mill Work & Timbers up to 60 ft. long)
 PICKAYUNE—*Alliance Lumber Mfg. Co.
 *Rosa Lumber Co. (Saw Mill)
 PURVIS—*Hand, James (Saw Mill)
 RALSTON—*Enon Lumber Co. (L. L. Yellow Pine)
 SANFORD—*Sanford, J. L. (L. L. Yellow Pine)
 *Ship Island Lumber Co. (Yellow Pine)
 SARDIS—*Carter Lumber & Mfg. Co. (Hardwood Lumber & Bent Wood Work for Box Trade)
 SCRANTON—*Fansworth Lumber Co. (Yellow Pine)
 SEMINARY—*Connor, O. W. & Co. Lumber Co. (L. L. Yellow Pine)
 SHIPMAN—Bacon, D. C. Co. (Saw Mill)
 TEN MILE—*Ten Mile Lumber Co. (Yellow Pine)
 VICKSBURG—*Hall-Coody Lumber Co. (Lumber & Staves)
 WAYNESBORO—West-King Lumber Co. (Saw Mill)
 Wetherbe-Huggins Co. (Yellow Pine)
 YAZOO CITY—§Hamel, Wm. (Saw Mill)

MISSOURI.

ALBANY—Whalley, R. L. Lumber Co.
 ANNAPOLIS—Benson, J. S.
 BETHANY—*Miner & Frees
 BLODGETT—*Cary Saw Mill Co.
 BUTLER—Logan-Moore Lumber Co.
 CAMPBELL—§Campbell Lumber Co.
 Garetson-Hilton Lumber Co.
 CANTON—Canton Saw Mill Co. (Saw Mill)
 CAPE GIRARDEAU—*Indiana Lumber Co.
 *Leming, M. E. (Hardwood)
 *Pott, F. W. (Staves, etc.)
 CARUTHERSVILLE—Reynolds & Crews
 *Riverside Lumber Co.
 COFFEYBURG—§Crossan, Miner & Frees
 DES ARC—*Graves, E. W.
 DEXTER—*Hall & Frisbie Lumber Co.
 Disher Hoop & Lumber Co.
 *Hoffman Heading & Stave Co.
 DONIPHAN—Harmon, C. P. (Saw Mill)
 EAST PRAIRIE—*Montgomery, Stit & Pool (Saw Mill)
 ELDON—*Harvey & Phillips (Saw Mill)
 FREDERICKTOWN—*Fredericktown Lumber Co. (Yellow Pine & Oak Lumber & Mfrs.' Wagon Hubs)
 GIDEON—*Gideon Anderson Lumber & Mercantile Co. (Hardwood)
 GLASGOW—*Rall Bros. (Hardwoods, Native)
 GRANDIN—*Missouri Lumber & Mining Co. (Missouri Yellow Pine)
 GREENVILLE—*Halliday-Klotz Land & Lumber Co. (Yellow Pine)
 HARRIS—Durman, L. C. (Saw Mill)
 HARVIELL—*Poster, S. W. (Staves & Headings)
 *Mangold Stave & Lumber Co. (Lumber, Beer & Wine Casks, Staves & Headings)
 KANSAS CITY—*American Sash & Door Co., 16th & Bellefontaine
 *Anson Shingle & Lumber Co., 50 K. P. bldg
 *Black Bayon Lumber Co. (Yellow Pine)
 *Bowman-Hicks Lumber Co. (Yellow Pine)
 *Badger Lumber Co.
 *Barr-Dubach Lumber Co.
 *Buchanan, Wm. (Yellow Pine)
 *Central Coal & Coke Co. (Yellow Pine)
 *Chapman & Dewey Lumber Co.
 Chatten, S. H.
 *Connolly Hardwood Lumber Co. (Oak, Ash, Cypress, etc.)
 *Dickason Goodman Lumber Co.
 *Poster Lumber Co. (Yellow Pine), Dwight bldg
 *Gloyd Lumber Co. (Yellow Pine, etc.)
 §Hope, Geo. D. Lumber Co. (Yellow Pine)
 *Leidigb & Havens Lumber Co. (Yellow Pine)
 *Louisiana & Texas Lumber Co. (Yellow Pine)
 *Long-Bell Lumber Co. (Yellow Pine)
 *Merrill, J. W.
 *Merrill & Co. (Hardwood)
 *Missouri Lumber & Land Ex. Co. (Missouri Soft Pine)
 *Missouri Tie & Timber Co.
 *Norton Lumber Co. (Yellow Pine)
 *Penrod Walnut Corp. (Black Walnut)
 *Pickering, W. R. Lumber Co. (Yellow Pine), Mills, Pickering, La.
 *Sabine Lumber Co. (Yellow Pine)
 *Saline River Lumber Co.
 *Stevenson-West Lumber Co. (Yellow Pine)
 *Texas Lumber Co.
 *Vanderwoort Lumber Co. (Yellow Pine)
 *Vernon Lumber Co.
 KENNETT—*Kennett Cypress & Hardwood Lumber Co.
 LEEPER—*Clarkson Saw Mill Co. (Mo. Yellow Pine Lumber)
 LOUISIANA—La Crosse Lumber Co.
 MARQUAND—*Whitener, J. Q. D. Land & Lumber Co. (Saw Mill)
 MOREHOUSE—*Himmelberger-Harrison Lumber Co. (Hardwood)
 NEELEYVILLE—*Star Ranch & Land Co. (Hardwood)
 NEW MADRID—*Lond, E. A. (Staves & Lumber)
 *Mann Grandflo Land & Lumber Co.
 Mishler Lumber Co. (Saw Mill)
 PACIFIC—Koppitz-Smith Mill Co.
 POPLAR BLUFF—*Ferguson & Wheeler
 *Hargrove & Ruth Lumber Co.
 *Ruth, H. L.
 *Williams, H. D., Cooperage Co.
 PORTAGEVILLE—Haines, E. C. & Son (Lumber Saw & Planing Mill)
 POTOSI—Smith, Chas. D. (Saw Mill)
 ST. JOSEPH—Dougherty & Moss Lumber Co.
 Early, T. R. & Co.
 §Nold, C. H. Lumber Co.
 §Ray, E. W. & Son
 South Mo. Pine Lumber Co.
 ST. LOUIS—*American Hardwood Lumber Co. (Oak, Poplar, Ash, etc.), N Market u Levee
 *Bagnell Timber Co. (R. R. Ties), 706 Chestnut
 §Banner Lumber Co., S Newstead & Duncan av

NEBRASKA.

§Berthold & Jennings (Long Leaf Yellow Pine, Oak & Cypress Lumber, Bridge Timbers, Piling & Telegraph Poles), Chemical Bldg
 Boynton Land & Lumber Co., Cal hldg
 Bradley Lumber Co.
 *Buchanan, Wm. (Yellow Pine), 706 Chestnut
 *Chicago Lumber & Coal Co. (Yellow Pine, Oak & Cypress, Hemlock & Gum Lumber & Cedar, White Oak & Black Locust Poles, Posts & Pilings, Red Cedar, Cypress & White Pine Shingles, White Pine, Cypress Yellow Pine Lath), Fullerton hldg
 §Chivvis, W. R. (Hardwood), Lesperance & Iron Mtn Ry
 *Colonial Lumber & Timber Co. (Yellow Pine), 7th c Pine
 *Columbia Lumber Co. (Yellow Pine), Equitable bldg
 *Dixie Lumber Co. (Yellow Pine), Lincoln Trust bldg
 §Druhe Hardwood Lumber Co. (Hardwood), c Main & Clinton
 *Dubach, F. B. Lumber Co. (Yellow Pine), Fullerton hldg
 *Eau Claire-St. Louis Lumber Co., B'way & Victor
 *Ferguson, W. T. Lumber Co. (Yellow Pine), 706 Chestnut
 *Freeman-Smith Lumber Co. (Yellow Pine), 7th c Pine
 *Frost-Trigg Lumber Co. (Yellow Pine, either Straight or Mixed Cars), 305 N 6th
 *Garrett, T. H. Lumber Co. (Yellow Pine).
 *Greyson-McLeod Lumber Co. (Yellow Pine), 405 N 6th
 §Gruner, Philip & Bro., Lumber Co., Cass av c 9th
 *Harris, Loyd G. Mfg. Co. (Hardwood), Levee nr Barton
 *Holmes, J. A. Lumber Co. (Michigan Lumber, White & Yellow Pine Flooring, Siding, Shingles, Lath, etc.; Poplar, Cherry, Ash, Walnut & Mahogany, Car & Bridge Timber Specialties), 1104 Spruce
 §Huie-Hodge Lumber Co., 122 N 7th
 *Kimball Lumber Mfg. Co. (Cypress & Oak), Equitable bldg
 *Liebke, C. F. Hardwood Mtls & Lumber Co., 2d & Buchanan
 *Lothman Cypress Co. (Louisiana Cypress), foot of Angelica
 *Luehrmann, Chas. F. Hardwood Lumber Co. (Oak, Ash, Poplar, Cypress, Cottonwood, Yellow Pine, Walnut, Maple, Hickory, Cherry, Sycamore, Gum & Wagon Stock), 148 Carrou
 *Malvern Lumber Co. (Yellow Pine), Chemical bldg
 §Massengale Lumber Co. (Hardwood), 2500 N Main
 *Mechanics' Planing Mill Co. (Cypress), 3742 N B'way
 *Miles, Geo. W. Timber & Lumber Co. (Yellow Pine), Fullerton bldg
 *Moss, T. J. Tie Co., Security bldg
 *O'Neil Lumber Co., B'way c Gratiot
 *Ozan Lumber Co., Equitable bldg
 *Ozark Cooperage Lumber Co., Frisco hldg
 §Plummer Lumber Co., 3130 Hall
 Richardson, J. P. & W. H. (Lumber Commission), 122 N 7th
 *Saginaw Lumber Co., 405 N 6th
 *South Arkansas Lumber Co. (Yellow Pine Lumber, Rift Flooring & Finish a Specialty), Fullerton bldg
 §Steele & Hihbard (Hardwood), 3129 N B'way
 *Stoneman-Zearing Lumber Co. (Veneers), 906 Olive
 *Summit Lumber Co. (Yellow Pine), Missouri Trust bldg
 §Thomas & Proetz Lumber Co., 3400 Hall
 *Werner, Louis Saw Mill Co. (Oak, Ash, Poplar, Gum, Short & L. L. Yellow Pine, Cypress & Cottonwood), 122 N 7th
 *Western Tie & Lumber Co., 313 N 9th
 *Wilson-Reheis-Rolfes Lumber Co. (Yellow Pine), Salisbury c Hall

HASTINGS—§Hausen Lumber Co.
 §Oliver, O. & Co.
 KEARNEY—*Gilest, F. H. Lumber Co.
 LINCOLN—§Dunn & Kincade Lumber Co.
 *Foster, S. A. Lumber Co.
 OMAHA—§Baker, J. L.
 §Bradford-Kennedy Co., 309 S 13th
 §Bullard, Hoagland & Beuedict (Hardwood)
 §Cady, H. F. Lumber Co., Douglas c 6th
 §Chicago Lumber Co. (Mo. Soft Pine), 814 S 14th
 §Dietz, C. N. Lumber Co. (Hardwood), 1214 Farnam
 §Dodds Lumber Co., 407 Brown blk
 §Guion & Ledwich, 1204 N 18th
 §Hampton Lumber Co. (Hardwood), 1242 S
 §Hoagland, G. A., 9th c Douglas
 §Long-Bell Lumber Co., First National Bank hldg
 §McShane Lumber Co., First National Bank bldg
 Omaha Hardwood Lumber Co. (Hardwood), California & 13th
 §Walrath & Sherwood Lumber Co., Mer. National Bank hldg
 §Wentworth, Lew., 618 Paxton blk
 SOUTH OMAHA—§Bradford, Louis Lumber Co.
 §Watkins, J. B. & Co.

NEW HAMPSHIRE.

ALEXANDRIA—Patten, S. G. (Saw Mill)
 ALSTER—Clark, F. W. (Saw Mill)
 AMHERST—Fuller, Lemuel (Saw Mill)
 Hartshorn, Frank (Saw Mill)
 ANTRIM—Holt, Chas. F. (Saw Mill)
 Poor, M. D. (Saw Mill)
 ASHUELOT—*Dickinson's, A. (Saw Mill)
 AUBURN—Griffin, W. A. (Saw Mill)
 Pingree, A. W. (Saw Mill)
 BARNSTEAD—Drake Bros. (Saw Mill)
 BATH—Ammanosuc Lumber Co. (Saw Mill)
 BEDFORD—Holbrook, F. G. (Saw Mill)
 BELMONT—Phelps, George A. (Saw Mill)
 Weeks, Jas. H. (Saw Mill)
 BEMIS—*Morey, Chas. H.
 BERLIN—*Flanchard, G. W. & Son Co. (Loggers' Mill)
 BRADFORD—*Peaslee, D. G. (Saw & Shingle Mill)
 BRENTWOOD—Flanders, Chas. (Shingles)
 CHESTER—Dale Bros. (Shingle Mills)
 Goldsmith, N. W. (Shingles)
 CONWAY—*Kennett, A. C.
 *Quint, L. C. & H. A.
 CRYSTAL—*Jackson, And'w
 DAVISVILLE—*Davis, H. C. & H. J.
 DOVER—*Faxon & Kimball
 *Rollins & Foss
 Seavey, J. F. Lumber Co. (Dealers)
 DUBLIN—Knight, C. F. & Son (Saw Mill & Shingles)
 DUNBARTON—Page, W. F. (Saw Mill)
 EAST ROCHESTER—*Tihhets & Hayes
 EAST SULLIVAN—Harris, W. H. (Saw Mill)
 EXETER—Dow, Albert N.
 *Sanborn & Wadleigh
 *Wadleigh & Carlisle
 FARMINGTON—*Jenness Bros.
 FITZWILLIAM—Howe, Orrin B.
 GILSUM—*Dart, Samuel W.
 GORHAM—*Lihhy, E. & Sons
 GRANTHAM—Burpee, M. P. (Saw Mill)
 Reed & Buswell (Saw Mill)
 GREENLAND—Brackett, S. S. (Saw Mill)
 HAMPTON—Brown, F. B. (Saw Mill)
 HOLLIS—Hayden Bros. (Saw Mill)
 Tarhell, E. E. (Saw Mill)
 HOOKSET—*Head, W. F. & Son (Lumber & Saw Mill)
 *Thompson, James
 JEFFERSON—*Rines, Mark
 LACONIA—*Cook's Lumber Co. (Staves, Exterior & Interior Finish, Dimension Spruce, Pine & Hemlock, Shingles, Laths, etc.)
 LEBANON—Flanders, L. C. (Saw Mill)
 LEE—Fifield, E. O. (Saw Mill)
 Plummer, Daniel E. (Lumber)
 LINCOLN—*Henry, Jas. E. & Sons
 LISBON—Noyes, F. B. Co. (Saw Mill)
 *Parker & Young Co.
 MANCHESTER—West Side Lumber Co., 168 S Main
 MARLOW—Gee, G. F. (Saw & Shingle Mill)
 Jeffs, C. P. (Shingle Mill)
 MILFORD—Guterson & Burt (Saw Mill)
 *Peirce, W. E. & Co. (Lumber, Lath, Shingles, Posts, Mill Work, Finish, etc.)
 Ware, W. H. & Co. (Saw Mill)
 NASHUA—Cook, F. D. Lumber Co.
 *Roby & Swart (Box Shooks, Boxes, etc.)
 Tolles, J. H. & Co.
 NEW MARKET—Glidden, Guy A. (Saw Mill)
 NEWPORT—Pollard, G. & Son (Saw Mill)
 PARKHILL—Goodnow, E. J. (Saw Mill)
 PELHAM—Coleman, J. N. & Son (Saw Mill)
 Jones, H. A. (Saw Mill)
 PERCY—*Percy Lumber Co.

PIERCE BRIDGE—*Pierce, Jno., Jr.
 RAYMOND—Batchelder, H. W. (Saw Mill)
 REED'S FERRY—*Parker, E. E. & P.
 RICHMOND—*Amidon, Frank
 ROCHESTER—Felter Bros. (Lumber & Saw Hall, E. E. (Saw Mill)
 †Langley, T. D. (Est. of)
 Rochester Lumber Co. (Mfrs.)
 Watson, E. A. (Mfr.)
 RUMNEY DEPOT—*Herbert, H. W. (Shingles)
 RYE BEACH—Jenness, C. A. (Saw Mill)
 SALEM—McLaughlin, K. (Saw Mill)
 SALISBURY—Holmes, C. C. (Saw Mill)
 SANDOWN—Sanborn, A. S. (Saw Mill)
 SHORT FALLS—Tripp & Tennant (Saw Mill)
 SOUTH CHARLESTOWN—*Bowen, G. G.
 SOUTH KINGSTON—Bartlett, W. S. (Saw Mill)
 SOUTH TAMWORTH—*Mason, W. N.
 STRATFORD—*Deunis, D. H.
 *Kimball, William H.
 SUNAPEE—Rowell, Wesley (Saw Mill)
 SURRY—Scripture, H. W. (Saw Mill)
 SUTTON—*Wadleigh & Keyser (Saw Mill)
 THORNTON'S FERRY—Dutton & Lull Co.
 TILTON—Knapp, Geo. E. (Saw Mill)
 UNION—Farnham, J. F. (Saw Mill)
 Plummer, Geo. L. (Saw Mill)
 WALPOLE—Colburn Bros. (Saw Mill)
 WARNER—*Carroll, E. H. & Sons.
 *Davis, Martin & Co.
 Ela, M. T. (Saw Mill)
 WARREN—Park, W. R. (Lbr. & Saw Mill)
 WASHINGTON—Dole, M. H. (Saw Mill)
 Wood & Bartlett (Saw Mill)
 WATER VILLAGE—*Thompson, S. J. & Son
 WEBSTER—Burhan Bros. (Lumber & Boxes)
 WEST BRENTWOOD—Fellows, Russell (Saw Mill)
 WEST CAMPTON—Moulton & Johnson (Saw Mill)
 WEST CHESTERFIELD—Amidon, G. F. (Saw Mill)
 WEST EPPING—Folsom, Thos. C. (Saw Mill)
 True & Ham (Shingle Mill)
 WEST THORNTON—*Veazey, W. D. & Co.
 WESTVILLE—Peaslee, E. E. (Saw Mill)
 WILTON—Livermore, Hy. H. (Saw Mill)
 WINCHESTER—*Jennings & Buffum
 WINDHAM DEPOT—Seavy, Geo. E. (Saw Mill)

NEW JERSEY.

ASBURY PARK—Hurley, James B. (Saw Mill)
 CAMDEN—*Baird, David & Co. (Lumber & Saw Mill)
 Coles, C. B. & Sons Co. (Saw Mill)
 §Munger & Bennett (N. C. Pine), 111 Delaware
 §Stockham, Chas. Lumber Co. (Saw Mill)
 JERSEY CITY—§Baldwin Lumber Co., Garfield av & Grand
 §Dodge & Bliss Co., West Side & Van Kew
 §Richards, J. & Sons, 80 1st ren avs
 §Vanderbeek & Sons, Green & Steuhen
 §Woodstock Co. (Pine, Cypress & Hardwood), West Side av
 NEWARK—*Backus, E. P. Lumber Co. (Pine & Hardwood), 460 Ogden
 §Bailey & Ailing, Ogden ft. Clay
 §Brohm & Buhl, 202 Badger av
 §Clark, J. S. H. & Co. (White & N. C. Pine), Rose c Jeliff av
 §Crowell, James (Hardwood), Ogden ft Cross
 Essex Lumber Co., 200 Passaic
 Glashy, J. F. Lumber Co., 5 Badger av
 Jones, Wm. A. & Son (Saw & Planing Mill, Pine, Hardwood, etc.), ft Centre
 §Oatboat, Wm. J., 445 Broad
 §Ripley, D. & Sons Lumber & Timber Co. (Saw & Planing Mill & all kinds of Lumber & Timber, Mouldings, Trimmings, etc.), Commercial Dock
 §Stipp Lumber Co., 776 Broad
 §Stone & Hershey, 800 Broad
 PATERSON—§Stiles, E. M., 223 Ellison
 ROCKAWAY—Stickle, B. K. & G. W.

NEW MEXICO.

ALAMOGORDO—*Alamogordo Lumber Co. (Spruce & Pine Lumber)
 §Jackson-Galbraith-Foxworth Co.
 ALBUQUERQUE—*Albuquerque Lumber Co.
 §Baldridge, J. C.
 *Crescent Lumber Co.
 §Rio Grande Lumber Co.
 CHILILI—Pahlo, Chrispin (Saw Mill)
 CHLORIDE—Saucier, John B. (Saw Mill)
 GUAM—Zuni Mountain Lumber & Trading Co. (Saw & Planing Mill)
 LAS VEGAS—*Coors Lumber Co.
 MAGDALENA—Hughes, W. H. (Saw Mill)
 MOGOLLON—Herrman, H. (Saw & Planing Mill)
 PINOS ALTOS—Redstone Co. (Saw Mill)
 RATON—Gate City Lumber Co.
 ROSWELL—*Pecos Valley Lumber Co.
 *Roswell Lumber Co.

MONTANA.

BONNER—*Big Blackfoot Milling Co. (Car & Bridge Timbers, etc.)
 BUTTE—*Anaconda Copper Mining Co. (Oak Maple, etc.)

NEW YORK.

AFTON—Barr Bros. (Saw Mill)
Church Bros. (Saw Mill)
ALBANY—\$Arnold & Co., 6 Lumber District
\$Crannell, Francis F., Ferry & Water
\$Easton Cypress Co., Tweedle bldg
\$Easton, W. J., DeGraff bldg
\$Hubbell, C. T. & Co., 3 Lumber District
\$Inghison & Co., 1 Lumber District
\$Kilbee, A. S. & Son, 24 Lumber District
\$Moore, R. H. & Zimmerman, 438 S Pearl
\$Nichols, Chas. B., 14 Lumber District
\$Patton & Co., 23 Lumber District
\$Robinson, John & Co., 116 Water
Thomson, L. & Co. (Pine, Spruce & Hemlock), 14 Lumber District
Towner, S. B. (Agent), Bridge cor Mill
Welsh & Gray, 70 4th av
\$White, Richard P. (Pine, Spruce & Hemlock), 44 N Pearl
ALDEN—Milliman, E. A. (Saw Mill)
ALTMONT—Warner, Alvin
ALTMAR—Horton Lumber Co.
ALTOW—Burns, Samuel T. (Saw Mill)
BARKERSVILLE—Mattison, George
BARRYVILLE—Gardner & Calkins
BATH—\$Jones Bros. & Parker (Lumber)
BENNINGTON—Zehler, M. F. (Saw Mill)
BERNE—Cheesebro, W. T. (Saw Mill)
BIG FLATS—Johnson, Grover (Saw Mill)
Neidhardt, A. (Saw Mill)
BINGHAMTON—\$Alaculsey Lumber Co.
Beman & Co. (Boes, Box Shooks & Key
\$Insign Lumber Co. Heads)
\$Middlebrook, C. D. & Son, State & Lewis
\$Lyons, A. J. Sons, 16 South
\$Weed, J. B. & Co.
BLEEKER—Ernest, Frank (Saw Mill)
\$Peters, John M., Jr. (Saw Mill)
Schamberger, Geo. (Saw Mill)
BLOCKVILLE—Green Bros. (Saw Mill)
BLODGETT MILLS—Utey, David (Saw Mill)
BLOOMVILLE—Cease, Stephen (Saw Mill)
BOXTONVILLE—Kantz, Chas. (Saw Mill)
BRANT—Calkins, Milford (Saw Mill)
BRASHER FALLS—Church, Elmon (Saw Mill)
BURLINGTON FLATS—Howland, Myland
BURRS MILLS—Manigold, George
BUTLER CENTRE—Merrill, Frank
BROOKLYN—(See New York City, Borough of Brooklyn)
BUFFALO—\$Bartholomew, Edw. W., Prudential bldg
\$Betts, Chas. M. & Co. (Pine, Cypress & Shingles), Hertel av & Niagara River
\$Beyer, Knox & Co. (Hardwood), 69 Leroy av
\$Buffalo Hardwood Lumber Co. (Hardwood), 940 Seneca
\$Buffalo Maple Flooring Co. (Maple & Oak Flooring), Chicago & Mackinaw
\$Curtis, Walter L., White bldg
\$Ellis, G. & Bro. (Pine, Hemlock & Hardwood Flooring), 965 Elk
\$Empire Lumber Co. (Hardwood), 1142 Seneca
\$Emporium Lumber Co. (Hardwood), Ellicott sq
\$Goodyear Lumber Co. (Penna. White Hemlock), 960 Ellicott sq
\$Haines Lumber Co. (Shingles, Pine, Red Cedar Lumber), 255 Erie
Hansenstein, Alfred G. (White & Norway Pine), 848 Ellicott sq
\$Holland, Graves, Maubert & George, ft Hertel av
\$Hummell, Henry, Builders' Exchange
\$Hurd Bros. (Lath, Shingles & Timber), Ellicott sq
\$Lalldlaw, R. Lumber Co. (White Pine Lumber, Lath & Shingles), Ohio Basin
\$Leslie, D. Y., 92 River
\$McLean, Hugh Lumber Co. (Hardwood & Veneers), 1074 Seneca
\$McNeil Lumber Co., Prudential bldg
\$Mason, Edward Z., 102 White bldg
\$Miller, Anthony (Hardwood), Eagle & Fillmore
\$Mixer & Co. (Mich. White Pine), 287 Elk
\$Montgomery Bros. & Co. (Yellow Pine & Hardwood), Court & Wilkeson
Reilly, W. W. & Bro., 402 Mooney bldg
Seatchard & Son (Hardwood), 1053 Seneca
\$Standard Hardwood Lumber Co., 1075 Clinton
\$Stewart, I. N. & Bro. (Hardwood), 892 Elk
Sullivan, T. & Co. (Hardwood; specialty, Ash & Elm), 50 Arthur
\$Taylor & Crate (Hardwood), Prudential bldg
\$Tindale & Jackson (Hardwood, Lumber, Slack Cooperage, Stock & Broom Handles, etc.), 1318 Niagara
\$Underhill, D., Jr., & Co., Erie Co. Bk. bldg
\$Wheeler-Holden & Co. (Hardwood, Erie Co. Bank bldg
\$Yeager, Orson E. (Hardwood), 932 Elk

CALLICOON—Herman, Martin (Saw Mill)
CAMPBELL—Fuller, Floyd (Saw Mill)
CANANDAIGUA—Garrett, Wm. (Saw Mill)
CANDOR—Booth, J. F. & T. S. (Saw Mill)
Ryan, John H. (Saw Mill)
CANTON—\$Spears, James (Lumber)
\$Wells, Reuben T.
CARLISLE—Brown Bros. (Saw Mill)
CARTHAGE—\$Carthage Lumber Co.
CASSVILLE—Carpenter, W. H. & Son (Saw Mill)
CASTERLAND—Barnes, E. H. Co. (Box Shooks, etc.)
CASTILE—Elitsac Mfg. Co. (Planing Mill, Wooden Toys & Novelties)
CATSKILL—Post, Amos (Saw Mill)
CAYWOOD—\$Caywood, J. C.
CENTRAL BRIDGE—Ottman, M. C. (Saw Mill)
CENTRALIA—Littlefield, Sidney (Saw & Shingle Mill)
CHAFFEE—Eddy, F. E. & Co. (Saw Mill)
CHARLOTTE—\$Upton, E. M.
CHARLOTTE CENTER—\$Kimball, H. E. (Lumber, Headings, Cheese Boxes, etc.)
CHARLTON—Dawson, Geo. H. (Saw Mill)
CHENINGO—Hollister & Bryant (Saw Mill)
CHERRY CREEK—Hess, C. E. (Planing Mill)
CHESTERTOWN—Faxon, Wm. H. (Saw Mill)
CINCINNATUS—White, Stephen (Saw Mill)
White, Wm. G. (Saw Mill)
CLARKSBURG—Smith, J. H. (Saw Mill)
CLYMER—Darling, Alfr.
\$Denink Bros. (Shingle Mill & Baskets)
CRANDALL CORNERS—Eddy, Chas. H. (Saw Mill)
CROGHAN—Farney, J. F. (Lumber & Saw Mill)
Steiner, Jos. (Saw Mill)
CUBA—Ackerley, Sill & Co.
\$Phelps & Sibley (Hardwood, Lumber & Shingles)
\$Rowley, W. M. & Co. (Shingle Mill)
CUTTING—\$Case, H. R. (Lumber, Shingles, etc.)
CUYLER—Spicer, A. P. & Son (Saw Mill)
DALTON—Van Nostrand, Wm. (Shingle Mill)
ELLENVILLE—\$Cox Bros. (Hardwood, Ties & R. R. Timber)
ELLCOTTVILLE—Ellicottville Milling Co. (Saw Mill)
Rust & Olin (Saw Mill)
ELMIRA—\$Doane & Jones Lumber Co. (Car Trade a Specialty)
FREDONIA—Kruse, Frederick
GALLUPVILLE—Haverly, E. H. & Bro. (Saw Mill)
GALWAY—Seabury, John H. & Son (Saw Mill)
Shaw, Robert
GARFIELD—Atwater, W. H. (Saw Mill)
GLENS FALLS—\$Finch, Pruyn & Co.
Gifford, Williams & Co.
\$Kendrick & Brown Co.
GLOVERSVILLE—\$Burr Bros. (Lumber & Saw Mills)
\$Holden, Chas. J. (Lumber)
Peck, Albert T. (Saw Mill)
GREENWOOD—Woodward, G. M.
HAGEDORNS—Chase, Mosher (Saw Mill)
HARTWICK—Lake, Bernice
HARFORD MILLS—Perkins, W. A.
HARKNESS—Sway, Fred.
HARRISVILLE—Austin, Orville (Saw Mill)
Kilbourn, R. A.
Kimball, C. H. & Son
Moore, John M. (Saw Mill)
Sprague, D. F.
HERMON—Fairbanks, R. J. (Saw Mill)
HILLSDALE—Malleney, W. A. (Saw Mill)
HOLLAND—Griggs, J. N. & Son (Saw Mill)
HOMER—Brown, C. S.
HOUSEVILLE—Morgan, Wm. I.
INDIAN LAKE—Indian Lake Mill Co.
Ovitt, P. P. (Saw Mill)
JAMESTOWN—\$Ross Lumber Co. (Hardwood)
MAPLES—Warren, Wm. (Saw Mill)
MARATHON—Burgess, Jas. S. (Saw Mill)
MARIAVILLE—Walpole, D. W. (Saw Mill)
MARYLAND—Burnside Bros. (Saw Mill)
Lampman, Jno. (Saw Mill)
MASONVILLE—Gardner, Andw. (Saw Mill)
MASSENA—Massena Mill Co. (Saw & Shingle Mill)
MEXICO—Ames, J. K. (Saw Mill)
Wright & Osborn
MIDDLEBURG—Lyon, F. A.
MIDDLEFIELD—McRorie, R. D.
MIDDLE GROVE—Collburn, Wilfrid
MIDDLEPORT—Rowley & Eddy
MIDDLETOWN—\$Crane-Giles Co.
\$Gordon & Gould
Miller, P. F.
MILLERS MILLS—Grosline, W. D. (Saw Mill)
MINAVILLE—Rockwell, Angus (Saw Mill)
MINOA—Snyder, Wm. R. & Co. (Saw Mill)
MONSEY—Requa, Sara (Lumber)
NEWBURGH—\$Newburgh Lumber Co.
NEW HAMBURG—\$Millard Lumber Co. (White Pine, N. Y. Spruce, Pa. Hemlock & Box Shooks)

NEW YORK CITY.
Borough of Brooklyn.

BROOKLYN—Bossert, Louis & Son, Grand nr Newtown Creek
\$Curtis Bros. Lumber Co., Liberty av & Vesta av
\$Ferguson & Clarke, 517 Flushing av
\$Gowanns Timber & Lumber Co. (Pine & Hardwood), ft of 24th
\$Halsted Lumber Co., 222 Nevins
\$Jacobson, A. C. & Sons, 3 Bridge
\$Orr, Jno. C. & Co., West e Java
Boroughs of Manhattan & Bronx
NEW YORK—\$American Lumber Co. (Hardwood, Lumber & Timber), 1st av & E 28th
\$Atlantic Coast Lumber Corp., 17 Battery pl
\$Baxter, G. S. & Co. (Ties, Piling, Railroad Lumber, etc.), 17 William
\$Booth, Horace G., 29 B'way
\$Booth & Lewis Lumber Co. (Southern Pine)
\$Burton, J. H. & Co. (N. C. & Yellow Pine, Rift, Flooring & Cypress), 45 B'way
Cannon, J. H. & Co. (N. C. & Yellow Pine), 66 Beaver
\$Cape Fear Lumber Co. (Hardwood), 1 Madison av
\$Cathcart, Jno. (Hardwood), 117 Franklin
\$Chase, Talbot & Co., 29 B'way
\$Chapel, Eugene P. (White Pine), 253 B'way
\$Church Cooperage Co. (The) (Cooperage Stock), 15 Park Row
\$Cole, Fredk. W. (Hardwood & N. C. White Pine), 29 B'way
\$Cole, W. R. & Co. (Staves), 17 Battery pl
\$Cooney, Eckstein & Co. (Yellow Pine, Lumber & R. R. Ties), 66 Broad
\$Crane & Clark (Cal. Redwood & other Shingles), ft W 30th
\$Creed, W. R. & Co. (L-L. Yellow Pine, Crombie, W. M. & Co. (for Export & Domestic Trade), 81 New
\$Delatour, A. J. (Hardwood), 150 Nassau
\$Dodge, Norman W., 156 5th av
\$Eccleston Lumber Co. (Yellow Pine, R. R. Ties, Timber Piling, Yellow Poplar & Hardwoods), 44 B'way
\$Eppinger & Russell Co. (Yellow Pine), 68 Broad
\$Export Lumber Co., 17 Battery pl
Great Southern Lumber Co.
\$Hilton & Dodge Lumber Co. (Cypress), 17 Battery pl
\$Hirschberg, H. (Pine, Cypress & Hardwood), 156 5th av
\$Holcomb & Caskey (Pine, Hemlock & Cypress, Lumber & Shingles), 18 B'way
\$Hussey, Jno. W. (Bridge & Dock Timber, etc.), 1 B'way
\$Johnson, B. P. Co., 49 Wall
Kellar, Stanley E., 18 B'way
\$Keys, Chas. H. (Cooperage Stock), 128
Lafond, Fredk S., 66 Broad B'way
\$Langdon, C. S. & Co., 68 Broad
\$Lewis, Harry L., 80 Cotton Ex
\$Lowry, Robt. C. (Yellow Pine & Box Shooks), 17 State
\$McDonald, Jno. W., 116 Wall
\$Manning, Chas. W., 68 Broad
\$Miner, Stanley H. (Timber, Piles, Dock Logs, etc.), 11 B'way
\$Murchie, Horace B. & Co., 156 Pine
Mutual Lumber Co., 239 Cherry
\$New York Lumber & Storage Co. (All Kinds of Hard & Soft Wood), 851 11th av
\$Ogden, E. H., Lumber Co. (Maple Flooring, etc.), ft of W 47th
\$Parrott, Wm. & Co., Produce Exch
\$Pitch Pine Lumber Co., 11 William
\$Prie & Hart (Hardwood & Veneers), 18 B'way
\$Quinby, Edgar H., 68 Broad
\$Rennolds, J. A. & Bros., 85 West
\$Rogers, Chas. E. & Bro., 88 Wall
\$Roper, John L. Lumber Co. (N. C. Pine), 18 B'way
SALMON, HAMILTON H. & CO. (Hardwood), 88 Wall
\$Sawyer, W. H. Lumber Co. (White Pine, etc.), 68 Broad
\$Shepard & Morse Lumber Co. (Cypress, N. C. Pine, etc.), 18 B'way
\$Simpson, Clapp & Co., 17 State
\$Sizer, Robert R. & Co. (Yellow Pine), 15 William
\$Smith, Gouverneur E., 17 Battery pl
\$Southard & Co. (N. C. Pine), 11 Broadway
\$Stratton & Wilson, 11 B'way
\$Strock, Schuyler C. (R. R. Ties, Poles & Piling Timber), 11 B'way
Swayze, Geo. A., 18 B'way
Tliff Bros. (Box Shooks), Produce Exchange
\$Turner, J. C. Cypress Lumber Co. (White Pine, Red Cedar, Cypress & Poplar), 1123 B'way

\$Vanderhilt & Hopkins Co. (Yellow Pine, Dimension Lumber), 126 Liberty
***WHITE, RIDER & FROST (White Pine, Spruce, N. C. Pine & Shingles), 39 Cortlandt**
***Wiley, Harker & Camp Co. (N. C. Pine), 949 B'way**
***Williams, I. P. & Sons, 220 11th av.**
***Wilson, Thos. (Exporter), Produce Exchange**
***Yellow Pine Co. (White & Yellow Pine, Spruce & Hemlock), 16 B'way**

Borough of Queens.

LONG ISLAND CITY—Eppinger & Russell Co. (Yellow Pine), 1st & East av.
(END OF NEW YORK CITY.)

NORTH TONAWANDA—\$Brady Bros.
 Buch Bros.
 Butts, Chas. G. Co. (Box Shooks, Box Lumber, Crating, etc.)
***Charlton, John & Thos. (Timber, Lumber & Planing Mill)**
\$Collins, Cornelius (Wholesale Commission)
\$Cowper, W. H. (Forwarders via Rail & Canal)

\$De Laplante-McBurney Lumber Co.
 Dodge & Bliss Co. (Box Shooks & Planing Mill) (Also see Jersey City, N. J.)
 \$Gillespie, Jas. (Wholesale Commission)
 \$Godkin, John
 \$Hoadley & Bennett (Yellow Pine, etc.)
 \$Kelsey, C. E. & W. E. (Wholesale Commission)
 Kelsey-Dennis Lumber Co.
 \$Lefaver & Co. (Inc.) (Wholesale Lumber)
 \$Lentz, C. B.

\$McLean Bros. (Wholesale Lumber)
 \$Mackenzie, J. P. (Wholesale Lumber)
 \$Oille & McKee (Wholesale Lumber)
 *Robinson Bros. Lumber Co. (White Pine Lumber & Shingles)
 *Silverthorn & Co. (Lumber & Shingles)
 \$Smith, Fassett & Co. (White Pine)
 \$Smith, M. M. (Wholesale Commission)
 \$Spider Lake Saw Mill & Lumber Co.
 *Thompson, Huhman & Fisher (Lumber & Planing Mills)

*Tyler, H. M. (White Pine, Lumber, Lath & Shingles)
 *White, Gratwick & Mitchell (Lumber & Planing Mills)
***WHITE, RIDER & FROST (White Pine, Spruce, N. O. Pine & Shingles)**
 \$White, W. H. & Co.

NORWOOD—\$Norwood Sash, Door & Lumber Co. (Spruce, Pine Lumber, Boxes, Shooks, etc.)
 OGDENSBURG—\$Proctor Mfg. Co. (Lumber & Mill Work)

*Skillings, Whitney & Barnes Lumber Co. (White Pine)

OLD FORGE—Roberts, John E. (Saw Mill)
 ONEIDA—\$Bennett & Klock (Saw Mill)
 PARISHVILLE—Clark, S. L. & Son (Lumber, Butter Tubs, etc.)
 Harper, J. P. (Saw & Shingle Mill)
 PARKERS—\$Parker, L. B. (Spruce & Hardwood Flooring)

PERRY—Andrews, David (Saw Mill)
 PIFFARD—Shattuck (Heading & Staves)
 PIKE—Powers, Wm. (Saw Mill)
 PITCHER—Beardsley, August (Saw Mill)
 Bennett, Geo. W. (Saw Mill)
 POINT ROCK—Bates, Orson C.
 Ferguson, Jasper (Saw Mill)
 PORTER COINERS—Jones, John S. (Saw Mill)
 PORT HENRY—Bigelow, Levi
 RANDOLPH—Wilson, Lydell L.

ROCHESTER—\$Crouch, C. T. & Son Co., West cor. Lorimer
 \$Crouch, C. T. & Son Co., West c Lorimer
 \$German-American Lumber Co., 62 Portland av.
 \$Hollister Lumber Co. (Hardwood & Pine), 316 N. Goodman
 \$Miller, John (White Oak & Pine), 691 Exchange
 \$Morse, Wm. B. & Sons (Pine & Hemlock, Shingles, etc.)

WOOD MOSAIC FLOORING CO.
 (Hardwood Lumber & Oak Flooring), (See adv. index, end of book)

ROME—Rousseau & Son
 ROUSE POINT—\$Millard Lumber Co. (Lumber & Box Shooks, Pine, Spruce & Hemlock)

SALISBURY—Austin & Zimmerman
 SAMMONSVILLE—Sammons, W. S. (Saw Mill)
 SANDY HILL—\$Griffin Lumber Co.
 \$Kenyon Lumber Co. (Lath, Saw Mill, etc.)
 SHERMAN—Park, R. E. (Saw & Shingle Mill)
 Shmmons, J. H. (Shingle Mill)
 SIDNEY—\$Silver, M. L. & Co. (Pine, Spruce & Cypress)

SILVER CREEK—\$Montgomery, L. B. (Planing Mill)
 SOLSVILLE—Lyons, Geo. A. (Saw Mill)
 Lyons, W. T. (Saw Mill)

SOUTH STOCKTON—Wakeman, Frank (Saw Mill)
 SPRINGBROOK—Northrup, Eli (Saw Mill)

SYRACUSE—Bannon, B. A. & Co., 101 Townsend

\$Chapman's, E. E. Sons, 1322 Carbon
 \$Dooley, Jos., 108 N State
 \$Kenyon, Geo. G. (Hardwood, Shingles, etc.), 601 E Watts
 \$McChesney, Geo. H. (Pine & Hemlock, Shingles, etc.), 607 James
 \$McDowell, John Kenyon, 211 Wilkinson
 \$Mann & Hunter Co., 962 Salina

TONAWANDA—\$Alliger, Frank I. Lumber Co. (Lumber, Box Shooks & Baled Shavings)
 *Eastern Lumber Co. (Mill Work)
 UNION CENTRE—Howard, B. (Saw Mill)
 UTICA—Downer's Lumber Yard, 280 Whites-Gibson, G. P. & Son, 720 Genesee boro
 \$Kellogg, C. C. & Sons Co.
 \$Nellis, Amos & Swift (Hardwood)
 Thomas, Philip Sons, 137 Kemble

WATERTOWN—\$Harroun, J. E. & Son (Spruce Flooring Siding Lath, Shingles & Box Shooks)
 \$Makepeace, Chas. E.

WARWICK—Horton, M. V. B. (Saw Mill)
 WEBSTER CROSSING—White, Charles H. (Saw Mill)
 WELLS—Schultz Mfg. Co.
 WELLSVILLE—\$Coats Mfg. Co. (Hardwood)
 *Duke Co. (Lumber, Timber & Shingles)
 *Fassett, J. W. (Lumber)
 Hanks, Samuel F.

WEST BURLINGTON—Gardner, O. C. (Saw Mill)
 WEST HEBRON—Copeland, Levi
 WEST ONEONTA—Rouse, Israel (Saw Mill)
 Rouse, Albert (Saw Mill)

WEST STOCKHOLM—Gibson, G. N. & Son
 WEST WINFIELD—Hackley, A. C. (Saw Mill)
 WESTPORT—Payne, D. F. (Saw Mill)

WHITESBORO—\$Denton & Waterbury (Lumber, Lath & Shingles)

WILLIAMSTOWN—Sage, J. L.
 WILLSBORO—Higby, E. S. (Saw Mill)
 WOLCOTT—Dow, J. E. (Saw Mill)

\$Strait, J. G. & Son (Lumber)
 WOODHULL—Olin, Wm.
 WORCESTER—Hadsell, J. T. & Son (Saw Mill)

NORTH CAROLINA.

ABERDEEN—Aberdeen Sash & Blind Co.
 Polley & Cameron

ALBEMARLE—Marks, W. A.
 ALLIANCE—Campen, A. B. (Saw Mill)
 Campen, Samuel (Saw Mill)

ALMA—\$Alma Lumber Co.
 AMITY—Christy & Witherspoon
 ANDREWS—Russell, D. S. (Saw Mill)

ASHBORO—\$Ashboro Lumber & Mfg. Co.
 *McCrary, W. F. & Son
 Star Lumber Co. (Saw Mill)

ASHEVILLE—\$Cooper, W. N.
 McEwen-Gibson Lumber Co.
 Masou, W. T. Lumber Co.
 Wilkinson, M. B. Lumber Co.

ASHPOLE—\$Southeastern Lumber Co.
 ATKINSON—Murphy, J. A. (Saw Mill)
 Hawes, E. A. (Saw Mill)

AUSTIN—Burchett & Billings (Saw Mill)
 Burleson, L. W.

BETHANIA—Wilson Bros. & Kapp (Saw Mill)
 BISCOE—Burt & Hicks

Kanoy, J. E.
 McDuffy, J. C.

BLADENBORO—Bladenboro Planing Mill
 BOARDMAN—\$Butler's Lumber Co. (N. C. Pine)

BREVARD—\$Brevard Lumber Co.
 BRIDGEWATER—Alhernethy & Lyerly (Saw Mill)

CANDOR—\$Currie, J. O. & Bro. (Lumber)
 *Sutton, B. B. (Lumber)

CARTHAGE—Currie & McQueen (Saw Mill)
 Mills & Frey (Shingles)
 McAuley, J. R. (Saw Mill)

Shields, R. S. (Shingles)
 Spencer, A. A. & Co.
 CATES—Cates, J. T. (Saw Mill)

DOVER—\$Goldsboro Lumber Co. (Yellow Pine Flooring & Finish)

EDENTON—\$Branning Mfg. Co. (N. C. Pine & Box Shooks)

ELIZABETH CITY—Commander, T. A. & Son
 GREENSBORO—\$Brooks Mfg. Co.
 *Guilford Lumber Mfg. Co.

GREENVILLE—\$Beaufort County Lumber Co.
 Overton, D. D. (Saw Mill)

HERTFORD—Brinn, J. T.
 Major & Loomis (Saw Mill)

HICKORY—Hutton & Bourbonnais (Saw Mill)
 Newby & White
 Roughton, A. W.

HIGHPOINT—\$Snow Lumber Co.
 HOT SPRINGS—Updegraff, S. G.

LENOIR—\$Wilson Lumber & Milling Co.
 LUMBER BRIDGE—Lancaster, D. B. & Co.
 McCullers—Sorrel & Franks
 Twiner, W. S. & Son

MADISON—Cahill, B. M. (Saw Mill)
 MANCHESTER—Black, Neill
 MAPLETON—Carmen, Geo. E. (Saw Mill)

MAYODAN—Fallin, C. H.
 NEWBERN—\$Blades Lumber Co. (N. C. Pine & Saw Mill)

*Broadus & Ives Lbr. Co. (N. C. Kiln Dried Pine Shingles, etc.)

Elm City Lbr. Co. (Saw & Planing Mill)
 *Munger & Bennett
 *Pine Lumber Co.

NEW HILL—Edwards, J. J. & Co. (Saw Mill)
 NEWPORT—Bell, W. S. (Saw Mill)

OXFORD—Smith, Hedrick & Co.
 PLYMOUTH—Bateman, W. M.
 Plymouth Lumber Co.

*Walker & Myers (Saw & Planing Mills)
 RALEIGH—Lassiter, C. J. (Saw Mill)
 *Mills, J. A.

RED SPRINGS—Love, J. A. (Planing Mill)
 *Pearsall, A. B. (L. L. Yellow Pine)
 *Red Springs Lumber Co.

ROPER—\$Roper, John L. Lumber Co. (N. C. Pine)

SANFORD—\$Sanford Sash & Blind Co. (Dressed, etc.)

WASHINGTON—\$Short-Clark Lumber Co. (N. C. Pine)

WEST END—\$West End Veneering Co. (Veneers)
 WILLIAMSTON—\$Simmons, Dennis Lumber Co. (N. C. Pine)

WILMINGTON—\$Angola Lumber Co.
 *Cape Fear Lumber Co.
 *Chadhour Lumber Co.

Floyd & Jones
 *Hilton Lumber Co.
 *Kidder Lumber Co.

WINSTON SALEM—Cummings, J. M. (Lumber Fogel Bros. (Saw Mill) & Planing Mill)

WINTON—Jordan & Parker (Lumber)
 Taylor, W. P. (Lumber)

OHIO.

AKRON—Akron Lumber Co., 1027 S Main
 Harkey Lumber Co., 1036 S Main
 Lyman-Allen Lumber Co., 896 S Main

AXLINE—Weller, John W. (Saw Mill)
 BAINBRIDGE—Durnell & McCoy (Saw Mill)
 BELLEVILLE—\$Ritter, P. (Lumber, Staves & Headings)

BLUFFTON—\$Althaus, Ewing & Co.
 Kimmel, J. W.

BOWLUSVILLE—Bowlus, J. L. & H. C. (Saw Mill)

BUWLING GREEN—Bigelow, J. H. (Saw Mill)
 BUCYRUS—\$Colter, Jacob & Co. (Saw Mill)

CADIZ—\$Long, E. M. & Sons
 CANTON—Canton Lumber Co.
 Weaver Lumber Co.

CEDARVILLE—Tarbox, J. M. & Son (Saw Mill)
 CINCINNATI—\$Banning, L. G. (Walnut, Quartered Oak & Ash), 8th & Main

\$Becker, R. E. & Son (Hardwood Lumber & Veneered Stock for Piano Factories, White (Ohio) Quartered Ash, Veneers, Hardwoods, Red Gum & Cottonwood Veneers), Poplar & McLean av

\$Bennett & Witte (Pine & Hardwood), 223 W 4th

\$Borcharding Lbr. Co. (Poplar & Hardwoods), Atlas B'k bldg

*Boyd, Chas. C. & Co. (Hardwood & Veneered Lumber), Glenn bldg

Browne, H. R., Atlas B'k bldg
 Burton, C. H. & Co., Augusta c John

Chaney, W. G. (R. R. Ties & Logs), Swift bldg

Cincinnati Hardwood Lumber Co. (Oak & Mahogany Veneers), Gest & Summer

Crane, C. & Co. (Hardwood Lumber & Box Lumber), 1739 Eastern av

*Cypress Lumber Co., Gest & Dalton av
 \$Darling, J. W. Lbr. Co. (Ash, Oak, Poplar, etc.), Union Trust bldg

Doppes, J. B. Sons Lumber Co., 1246 Gest
 \$Dulweber, Jno. & Co. (Hardwood), 1217 Budd

\$Enterprise Lumber Co., 377 Shillito
 Euler, A. (Exporter of Large Lumber), 612 First Nat'l B'k bldg

\$Farrin, M. B. Lumber Co. (Poplar & Oak, Beveled Siding, Flooring, Oak for R. R. Ties, Fence Posts, Bridges, Ships, Dock Piling, etc.)

\$Farrin-Korn Lbr. Co. (Cottonwood, Rough & Dressed Yellow Pine), Station av, Winton Place

\$Gage-Possell Lumber Co. (Oak, Poplar, Ash, etc.), Bell blk

\$Galle, W. F. & Co. (Southern Hardwoods), Budd c Cinn. So. Ry.

\$Goodman & Wright (Yellow Pine & Cypress), 435 E Court

Graham Lumber Co. (Yellow Poplar), 41 E 4th

Griffiths, Jos. & Sons (Planing Mill), Reading rd & E 12th

\$Heyl, Philip F. (Pine, Poplar & Cypress), 1215 W 6th

*K. & P. Lumber Co., Carthage Pike & B. & O. S. W. Ry.

Keeveny, T. W. Lbr. Co., 1043 W 8th
 *Kentucky Lumber Co. (Hardwood), 6th & Burns

§Kipp, B. A. & Co. (Hardwood), 818 W 6th
 §Lewin, A. M. (Yellow Pine & Cypress),
 Bank & McLean av
 §Littleford Lumber Co. (Hardwood), Pickering bldg
 *Maley, Thompson & Moffett Co. (Hardwood, Mahogany & Veneer), 8th & McLean av
 §Mickle, H. L. Lumber Co., Mitchell bldg
 *Morrison & Snodgrass Co. (Rough & Dressed Lumber), 501 Reading rd
 §Mowbray & Robinson (Poplar & Hardwoods, Car Stock, Ties, etc.), 1219 W 6th
 Nicola, Stone & Myers Co. (Pine & Hardwood), O. H. & D. Ry. n of Gest
 Owl Bayou Cypress Co., 1308 Central av
 *Pease Co. (Lumber, Lath, Shingles & Mill Work), Fredonia av & O. L. & N. R. R.
 Pierson, J. L. & N. L., Cooper & Cherry
 §Radina, L. W. & Co. (Hardwoods), Clark & Dalton av
 §Roberts, E. & Co. (All Kinds), 414 E Court
 Schmidt, A. (Exporter of Logs & Lumber), 612 First Nat'l B'k bldg
 §Scott, T. P. & Co., York & McLean avs
 §Shiels, Chas. F. & Co. (Hardwood), McLean av & Gest
 *Sowles, Frank W. Lumber Co. (Wholesale), Thomas bldg
 Stewart & Jackson (Hardwood), Mercantile Library bldg
 *Stone, T. B. Lumber Co. (Hardwood), 74 Union Trust bldg
 §Stone & Hinckley (Yellow Pine, Cypress & Shingles), 1029 Union Trust bldg
 Taft, S. H., 1308 Central av
 Townley, Wm. E. & Co., McLean av & Gest
 §Western Lumber Co. (Hardwood), c Richmond & McLean
 §Wiborg & Hanna Co. (Yellow Pine & Hardwood), 2649 Cummins
 CLARK—Conkle, John (Saw & Planing Mill)
 CLEVELAND—Advance Lumber Co., Rose bldg
 Barder-Mead Lumber Co., 791 Fairmount
 *Cleveland Box Co. (Resawed Lumber, Box Shooks, Packing Cases & Crating), Stone's Levee & Ohio
 Colonial Lumber Co. (Yellow Pine, R. R. Ties & Piling), Williamson bldg
 §Cuyahoga Lumber Co., 11 Carter
 §Euclid Av Lumber Co., 2730 Euclid av
 §Fisher & Wilson Co. (White Pine), 302 Telephone bldg
 Foote, C. H., New Eng. bldg
 §Georgian Bay Co., 55 Stone's Levee
 Gill Lumber Co., 500 Seneca
 Greif Bros. Co. (Barrels & Kegs & Stack Cooperage Stock)
 Interstate Lumber Co., The Arcade
 *Jenks, Robert H. Lumber Co. (Yellow Pine, Red Oak, Hemlock & Hemlock Shingles), 44 Euclid av
 Lake Erie Lumber Co., Hamilton c Marquette
 §Lake Shore Saw Mill & Lumber Co., Wason & Superior
 *Martin-Barriss Co. (Mahogany & Cabinet Wood Mfrs. & Importers), 654 Seneca
 §Mills-Carleton Co., 5 Carter
 Nahu, John, 181 Lake av
 Nicola, Stone & Myers Co., Hickox bldg
 §Potter, Teare & Co., 7 Carter
 §Prasse Lumber Co., 186 Columbus
 §Saginaw Bay Co., 714 Seneca
 Singletary, A. R. & Sons, 116 Merwin
 CLIFTON—Armstrong, Sam'l & Son (Saw Mill)
 COAL GROVE—*Yellow Poplar Lumber Co. (Yellow Poplar & White Woods)
 COALTON—Haslett, C. W. (Saw Mill)
 COLLEGE HILL—Pierson, J. L.
 COLUMBUS—§Bergin, M. J. Lumber Co., Spring c Water
 *Cones & Menefee, 450 W Broad
 Cross, G. D., Lumber Co., Long c Water
 Hildreth & Martin Lumber Co., 157 W State
 *Kelton & Converse, c Spring & Water
 §McLaughlin-Hoffman Lumber Co.
 *Nelson, C. T. Co., 323 Dublin av
 §Powell Lumber Co., 35 Vine
 *Ritter, W. M. Lumber Co. (Oak & Poplar)
 CUYAHOGA FALLS—Walsh Milling Co.
 DAYTON—*Dayton Lumber & Mfg. Co.
 §Gebhart, Alex. & Co.
 *Hartzell, Geo. W. (All Kinds of Hardwoods)
 Hossafous, H. C.
 §Kuntz-Johnson Co.
 EAST SPRINGFIELD—Allensworth, T. H. & Son (Saw Mill)
 EL DORADO—Locke, A. W. S. (Saw Mill)
 ELERY—Honeck, A. (Saw Mill)
 ELLERTON—Limebaugh, J. H. (Saw Mill)
 ELYRIA—Elyria Lumber & Coal Co.
 FAYETTE—Allen, J. O. & Co.
 FINDLAY—*Hancock Lumber Co. (Hardwood)
 *Parker Bros. (Lumber & Mills)
 Pennsylvania Lumber Co.
 Powell & Cooper (Saw Mill)
 FORT JENNINGS—Boehmer, Louis (Est. of) (Saw Mill)
 FOSTORIA—Frayer, F. W. (Saw Mill)

FRANKFORT—Ott, Jno. W. (Saw Mill)
 FRANKLIN—Hankinson, J. V. (Saw Mill)
 GALENA—Bennett, W. F. (Saw Mill)
 GREENFIELD—Barr, W. L. (Saw Mill)
 GREENVILLE—§Kantz & Wright Lumber Co.
 IRONTON—*Fearon Lumber & Veneer Co. (Poplar, Rough & Dressed)
 §Ironton Lumber Co.
 §Nigh Lumber Co. (Poplar, Ash & Walnut)
 *Ward, W. G. Lumber Co.
 LEIPSIK—Buckeye Stave Co. (Large, Saw, Planing & Stave Mill)
 *Easton, Amos F. (Hardwood)
 LIMA—§Longworth, I. R. Co. (Hardwood)
 LORAMIE—Wise, Aug. (Saw Mill)
 LORDSTOWN—Cronk, J. (Saw Mill)
 Park Bros. (Saw Mill)
 MANTUA—Hine & Cook
 MARION—Implement Mfg. Co. (Hardwood)
 MARTIN—Post, Geo. E. (Saw Mill)
 MIAMISBURG—*Wantz, H. Lumber Co. (Hardwood)
 ROSEVILLE—Coombs, Hy. (Saw Mill)
 §Gleber & Schuck
 Schoepfle Mfg. & Lumber Co.
 SOUTH SALEM—Lunbeck & Son (Saw Mill)
 SOUTH WARSAW—*Hardin, F. P. & J. J. (Saw Mill)
 SPENCERVILLE—Reynolds, W. A. (Saw Mill)
 SPRINGFIELD—*Rawlins, Albert M. (Hardwood), Main & Lincoln av
 STRYKER—Stryker Boat, Oar & Lumber Co.
 SYCAMORE—Petty, J. A. (Saw Mill)
 TIRO—Allen, B. F.
 TOLEDO—*Barbour & Starr (Cork, Pine & Sash Stock), Summit c Albany
 §Barnes & Mauk, Gardner blk
 §Campbell Co. (& Planing Mill), Hoag nr Dor
 §East Side Lumber Co., Starr av
 *Empire Lbr. Co. (White & Yellow Pine), Ash c Water
 §Kelsey & Freeman (White Pine)
 *MacLaren & Sprague Lbr. Co. (White Pine)
 *Mitchell & Rowland Lumber Co. (White & Norway Pine)
 *Peter, Wm. (White Pine), 197 S St. Clair
 *Rib River Lumber Co. (White Pine)
 §Trotter, David, 1774 Summit
 URBANA—Stephen Bros. (Hardwood)
 VAN WERT—*Gleason Lumber Co. (Saw Mill)
 WAUSEON—Wauseon Lbr. Co. (Hardwood)
 *Williams, H. H. & Co. (Saw Mills)

OKLAHOMA TERRITORY.

OKLAHOMA CITY—*Pine Tree Lumber Co. (Yellow Pine)
 RED ROCK—*Foster Lumber Co.

OREGON.

ALBA—*Viebrock & Schmidt
 ASTORIA—Astoria Box Co. (Boxes & Lumber)
 *Clatsop Mill Co. (Oregon Pine & Spruce Lumber)
 AURORA—*Cole Bros. & Co.
 BAKER CITY—*Oregon Lumber Co.
 *Stoddard Bros.
 BRIDAL VEIL—*Bridal Veil Lumbering Co. (Oregon Fir & Larch, Siding, Ceiling & Oregon Pulp & Paper Co. Finish)
 BROWNSVILLE—Moyer, Hugh B. (Mill Work)
 BULLARDS—Fahey, E. & Sons
 CAMAS—Kirkendall, J. A. & Sons (Saw Mill)
 Thrush, Lincoln (Saw Mill)
 CANBY—*Adkins, Jas.
 *Cole Bros.
 CANYONVILLE—Pickett, J. R.
 CASCADE LOCKS—Oregon Lumber Yard
 CLATSKANIE—Barr Bros.
 Merrill, Frank (Saw Mill)
 Merrill, Norman (Saw Mill)
 Tichenor Mill Co. (Shingles)
 CLIMAX—Chasley, N. N. (Saw Mill)
 COBURG—*Booth-Kelly Lumber Co.
 Skidmore, Wm. (Saw Mill)
 COQUILLE—Clayton Bros. (Shingle Mill)
 CORVALLIS—*Corvallis Mfg. Mill Co.
 DETROIT—*Curtis Lumber Co.
 *Hoover Lumber Co.
 DODGE—Myers, J. T. & Son (Saw Mill)
 DRWSEY—Ott, John & Co.
 DUFUR—*Dufur Lumbering Co.
 Ward Bros.
 EAGLE POINT—Daley, A. J. & Son
 ELKTON—Cooper & Haney
 EMPIRE—*Southern Oregon Co.
 EUGENE—Andrews, W. H.
 *Booth-Kelly Lumber Co.
 Eugene Planing Mill Co.
 FISHHAWK—Gillespie & Wilson
 Freeman, D. W. (Saw & Planing Mill)
 FOSSIL—*Butte Creek Land, Live Stock & Lumber Co.
 GARFIELD—Yocum, Thomas
 GLENDALE—Woodford & Co.
 GOLDSON—Goldson, J. M. & Sons
 GOPHER—Thompson & Flynn

GRANTS PASS—Kersterson & Silsby
 *Welter, Pracht & Schmidt Bros.
 *Williams Bros. & Kendall
 GREENVILLE—Davis Bros.
 GROUSE—Silver, S. M. & D. A. (Saw Mill)
 HARDMAN—Parker Mill & Lumber Co.
 HARNEY—McKinney, C. F.
 Richardson, A. K.
 HILGARD—*Carlson Bros. & Co. (Lumber & Ties)
 Casey, J. D. (Lumber & Ties)
 HOBSONVILLE—Hadley Lumber Co.
 HOLBROOK—Bloyd & Sigler (Saw Mill)
 HOLLEY—Moyer, H. B. (Saw Mill)
 IMBLER—*Imbler Milling Co. (Saw & Planing Mill)
 JUNE—June Lumber Co.
 KENO—McCormack, Thos. (Saw Mill)
 KLAMATH—*Moore, C. S. & R. S.
 LOST VALLEY—Lost Valley Land & Lumber Co.
 LYONS—Lyons Lumber Co.
 McEWEN—Service & Wright Lumber Co.
 MARSHFIELD—*Dean, E. B. & Co.
 MEACHAM—Hilgard Lumber Co.
 Meacham Lumber Co.
 MEDICAL SPRINGS—Langrell, L. T.
 MILL CITY—*Curtis Lumber Co.
 MILLWOOD—Briggs, C. A. (Saw Mill)
 Clark & Baker (Saw & Shingle Mill)
 MIST—*Lane, John W.
 *Libel, Casper
 MOUNT HOOD—Helmer, Charles
 MULINO—Trullinger, D. L.
 NAYLOX—Hostetter & Son (Saw Mill)
 NHALEM—Kerbs, Robert (Saw Mill)
 NEWBERG—*Spaulding, Chas. K. Logging Co. (Rough & Dressed Ash & Maple, etc.)
 NORTH POWDER—Kiwett, R. W.
 NORTH YAMHILL—Smith, Chas. L. (Saw Mill)
 OAKLAND—Norris, N. E.
 ONEATTA—Parker, Allen (Saw Mill)
 OREGON CITY—Moehnke, Chas. (Saw Mill)
 ORIENT—Cumming & Cole (Saw Mill)
 Straus Lumber Co.
 PARKERSBURG—Coyville Mill & Tug Co. (Saw Mill)
 PALMER—*Bridal Veil Lumbering Co.
 Palmer, L. C. (Saw Mill)
 PANTHER—Rasselton, Lewis (Saw Mill)
 PEAK—Davidson & Cramer (Shingles)
 PEDEE—Pedee Lumber Co.
 PEORIA—Kaltrider, Wm. (Shingles)
 PERRY—*Grande Ronde Lumber Co.
 PHILOMATH—Henkle, J. L.
 PORTLAND—§Ainslie, Geo. & Co. (Imported Woods & Mill Work), Pettygrove c 15th
 §Albina Lumber Co., River ft Randolph
 *Broughton & Wiggins Co. (Piling & Cedar Poles), 92 1st
 *Bucoda Lumber Co., Concord bldg
 *Eastern & Western Lumber Co., Front st. N
 *Inman, Poulsen Co. (Oregon Pine), ft E Sherman
 *Lindsley Bros. Co. (Poles, Ties, Piling & Timber, etc.), Sherlock bldg
 McCracken, J. Co., 231 Pine
 *North Pacific Lumber Co., Worcester blk
 North Pacific Planing Mill Co., Thurman c
 Northwest Door Co., ft Albina av 22d
 Nordby Lumber Co., Sherlock bldg
 Oregon Fir Lumber Co.
 *Pacific Export Lumber Co. (Pine, Fir & Spruce), Cham. of Com.
 Pelton, Armstrong & Co., Commercial blk
 Portland Lumber Co. (Fir Lumber), ft Lincoln
 Western Lumber Co., Front, ft 17th
 Wheeler, W. W. Lumber Co., Sherlock bldg
 PRINEVILLE—Hawkins Bros. (Saw Mill)
 RAINIER—Muckle, D. A. (Saw Mill)
 Smith, Jos. & Son (Saw Mill)
 Stehman, Dean (Saw Mill)
 SANDY—Brown & Son (Saw Mill)
 Cummins & Cale (Saw Mill)
 STAFFORD—Saum, George & Son (Saw Mill)
 STAYTON—*Brown, Lee & Sons
 TILLAMOOK—*Pacific Lumber Co.
 Long, Frank
 *Tillamook Lumbering Co.
 TRENT—Parvin & Crusan Bros.
 WALLOWA—Carmen & Shireman (Saw Mill)
 Flerber, John
 Wallowa Lumber & Mfg. Co.
 WARRENTON—Old Oregon Lumber Co.
 WATERLOO—Hurst, E. P., & Wiley, J. M. (Saw Mill)
 WILHOIT—Fox & Co. (Saw Mill)
 WOLFCREEK—*Sugar Pine Door & Lumber Co.
 WOODS—Kerb Bros. (Saw Mill)
 YANKTON—Sherman Bros.
 Stanwood, E. O.

PENNSYLVANIA.

ALLENGHENY—§Bruckman Lumber Co.
 Crawford, Jno. A. (Lumber & Saw Mill),
 Herrs Island
 §Holthouse, Albert W., Ferguson blk
 §McClure Timber Co. (Lumber & Saw Mill)
 §Ogilvie, R. A., 1407 Fremont
 Schulze & Emanuel (Lumber & Planing Mill)
 §Simons, M. Sons

*Walter, H. R. Lumber Co. (Hardwood & Yellow Pine)
 ALLENTOWN—\$Lanbaeh, M. H. & Bro.
 \$Trexler Lumber Co.
 ASHLAND—\$Bright, H. F.
 AUSTIN—\$Goodyear Lumber Co. (Penna. White
 Harvey & Collins (Saw Mill) Hemlock)
 AVONDALE—Hicks, Jno. H. (Saw Mill)
 BAKERSVILLE—Knapp, C. M. (Saw Mill)
 BANDANNA—Heil, Jno. (Saw Mill)
 BARRONVILLE—Barron Bros. (Saw Mills)
 BARRY—Bolich, Wm. (Saw Mill)
 BARTONVILLE—Slutter, L. L. (Saw Mill)
 BEANS COVE—Donohoe, Peter (Saw Mill)
 BEAVER FALLS—\$Brierly, F. K.
 BEAVER TOWN—Engle, A. W. (Saw Mill)
 BECHTELSTOWN—Reitmaur, W. M. (Saw Mill)
 Stauffer, A. T. B. (Saw Mill)
 BELLEFONTE—\$Crider, P. B. & Son (Lumber &
 Saw Mills)
 BELLE VERNON—\$Belle Vernon Saw & Planing
 Mill Co.
 BELLWOOD—Cherry Bros. (Saw Mill)
 Glasgow, Jos. P. (Saw Mill)
 BERNVILLE—Kalbach, H. & L. (Saw Mill)
 BIG RUN—London, Jas. (Saw Mill)
 Miller & Pifer (Saw Mill)
 BLOOMFIELD—Bryner & Son (Shingle Mill)
 BRADFORD—\$Bemis, J. M. & Son
 \$Bond, Alfred J. (Hemlock), 124 Mechanic
 \$Bradford Hdw. Lumber Co.
 \$Hazelton, B. F. (Est. of), 33 Mechanic
 \$Stout & Holden
 \$Weed, W. S. & Co.
 BROOKVILLE—\$Anderson Lumber Co.
 Cook, A. W.
 \$Dickey, Wm. (Lumber & Specialties)
 \$Pocahontas Lumber Co.
 \$Vanleer Bros. (Lumber & Planing Mill)
 \$Verstine, Kline & Co. (Lumber)
 BURNT CABINS—Comer, Geo. W. (Saw Mill)
 Comer, W. M. (Saw Mill)
 CAMBRIDGE SPRINGS—Blystone, C. W. (Saw
 Mills)
 CAMP GROUND—Johnson, C. Jr. (Saw Mill)
 CANAL—Rhodes, Jos. (Saw Mill)
 CANTON—\$Beardslee & Innes
 \$Crawford, H. & Sons
 CHEST SPRINGS—Thaddens, Conrad (Saw Mill)
 CLARINGTON—\$Braden, A. R.
 Clarrington Saw Mill Co.
 \$Work, Josiah & Son
 CLEARFIELD—\$CLEARFIELD LUMBER
 Co. (Ltd.) (Hemlock, Pine, Oak & Hard-
 wood)
 \$Surveyor Run Lumber Co. (Lumber & Saw
 Mills)
 \$Vinton Lumber Co. (Ltd.) (Hemlock &
 Hardwood)
 COATESVILLE—Ash, Chas. W. (Saw Mill)
 CONNER—Thomas, L. M. (Saw Mill)
 CONYNGHAM—Hess, A. E. (Saw Mill)
 COOKSBURG—Braden, G. R. (Saw Mill)
 Cook, J. R. (Saw Mill)
 \$Cook's, A. Sons (Lumber)
 COUDERSPORT—Ellison, O. T.
 \$White, Jas. & Son (Hardwood)
 DARBY—\$Darby Casket Co.
 \$Gottschall, Adam J.
 DELTA—Moffett Bros. & Bingdon (Saw Mill)
 DUBOIS—\$DuBois, John E.
 \$Ginter, Hy. E.
 EASTON—Butz, Edward M. (Planing Mill)
 Zearfoss, Godfrey (Planing Mill)
 EBENSBURG—\$Griffith, Webster (Maple Floor-
 ing, Hemlock & Hardwood)
 ELIZABETH—Rhodes, S. O. (Saw Mill)
 ELK GROVE—\$Hummer & Yorks
 ELKLICK—Achenbach, H. & Sons (Saw Mill)
 Compton, Demetrius (Saw Mill)
 ELMER—\$Dodge, A. F.
 \$Gilbert, C. A.
 ELLIOTTSTOWN—Foose, Jas. B. (Saw Mill)
 ELLIOTTSTOWN—Elliott, B. (Saw Mill)
 EMPIRE—\$Raine & Raine (Hemlock, etc.)
 EMPORIUM—\$Catlin, C. G. (Saw & Shingle
 Mill)
 \$Hackett, S. S.
 ENDEAVOR—\$Wheeler & Dusenberry (Lumber,
 Lath & Shingles, Pine Lumber up to 72
 feet)
 ERWINNA—Stover's, J. S. Sons (Saw Mill)
 EVANS CITY—\$Dambaugh, Edw.
 FELTON—Stabley, W. H. (Saw Mill)
 GAINES—\$Maple, Birch & Beech Flooring Co.
 (Hardwood, Lumber & Flooring)
 GUYS MILLS—Bushan, John (Saw Mill)
 Demalson, S. (Saw Mill)
 Morgan, John (Saw Mill)
 Williams Bros. (Saw Mill)
 HALLSTEAD—\$Roosa, E. H. B. (Dressed &
 Mouldings)
 HALLTOWN—\$Hall, Gardner & Co. (Lumber)
 \$Moore, W. E.
 HASTINGS—Lautzy, Jos. (Saw Mill)
 HOLLIDAYSBURG—\$Irvine, Robt. C.
 \$Young, Blair B. (Saw Mill)
 IOLA—\$Eves, W. M. & Sons
 JERSEY SHORE—\$Torbert, J. Frank
 Childs Brothers (Saw Mill)

JOHNSTOWN—\$Murdoch, J. M. & Bro. (White
 Oak, Hemlock, White Pine & Hardwood)
 KANE—\$Mell, Geo. H. (Rough & Dressed
 Lath & Shingles)
 KEATING SUMMIT—\$Emporium Lumber Co.
 (Hardwood)
 KNOXVILLE—\$Edgecomb's, I. M. Sons (Mill
 KUTZTOWN—\$Gonser, John R. Work)
 LAMONA—Hassinger Lumber Co. (Hemlock,
 White Norway & Yellow Pine)
 LANCASTER—Kalbach, A. M. (Saw Mill)
 Keystone Planing Mill Co.
 Lancaster Planing Mill Co.
 Spider Lake Saw Mill & Lumber Co.
 LEWISBURG—\$Nesbit, D. M. & Co. (Lumber,
 Timber & Interior Finish)
 *HOPKINS & WEYMOUTH (Hard-
 wood, Pine & Oak)
 McKEESPORT—Shoup, John & Co. (Saw Mill)
 MARIENVILLE—\$Amsler, C. W.
 \$Shields & Gross.
 MILTON—\$Clinger, D. (Lumber & Planing Mill)
 MILLERSBURG—\$Snyder, C. J. (Saw Mill)
 MONONGAHELA—\$Monongahela Saw & Plan-
 ing Mill Co.
 MOUNT JEWETT—\$Kane, Elisha D.
 NEW BETHLEHEM—\$Andrews, C. E. Lumber
 Co. (White Oak, White Pine & Hemlock,
 Timber & Lumber)
 NEWBURG—Brook, Aaron (Saw Mill)
 NEW PARK—Brown, R. D. (Saw Mill)
 NEWTOWN—Watson, A. W. & W. M. (Saw &
 Planing Mill)
 NORRISTOWN—Grater-Bodey Co. (Planing Mill)
 NORTHUMBERLAND—Stannert & Kline (Saw
 OIL CITY—\$Hunt, W. G. & Co. Mill)
 PAINTERSVILLE—Goss, W. H. & Bro. (Saw
 PANIC—North, H. K. (Saw Mill) Mill)
 PARNASSUS—\$Logan, J. W. & Sons (Lumber &
 Planing Mills)
 PENNSYLVANIA FURNACE—Brown, A. M. (Saw
 Saw Mill)
 PERKASIE—Benner, A. S. (Saw Mill)
 PETERSBURG—\$Longnecker & Roser
 \$Swope & Longnecker
 PHILADELPHIA—\$American Timber Co., Drex-
 el bldg
 Anderson & Slonaker, Del av e Poplar
 \$Bear Creek Lumber Co. (Oak, Spruce,
 White Pine & Hemlock), Land Title bldg,
 Mills, Friendsville, Md.
 \$Beaver Creek Lumber Co. (Hemlock &
 Spruce), 119 S 4th
 \$Benners, W. J. & Sons (Hardwood), 30th
 bel Walnut
 \$Betts, Chas. M. & Co. (Pine, Cypress &
 Shingles), Real Est. Trust Co. bldg
 \$Blauvelt, W. S. & Co., Real Estate Trust
 Co. bldg
 \$Bliss & Van Auken, Betz bldg
 \$Brumer, Owen M. Co. (White & Yellow
 Pine & Hardwood, Maple Flooring, Rift
 Yellow Pine, Flooring a Specialty), Land
 Title bldg
 \$Buck, Daniel (Est.), 1505 N 5th
 \$Burton, E. P. & Co. (N. C. Pine), Land
 Title bldg
 \$Buzby, C. M. & Sons, 626 Wash'n av
 \$Cathrail, Eugene H., 5 Walnut
 \$Cherry River Boom & Lbr. Co. (W. Va.
 Spruce, Hardwoods, Cypress & Pine), Land
 Title bldg
 \$Colonial Lumber Co., Lippincott bldg
 \$Coolbaugh, C. C. & Son (Pine & Hardwood),
 1215 Filbert
 \$Coppock-Warner Lumber Co. (Yellow Pine),
 Land Title bldg
 \$Craig, Geo. F. & Co. (White, Yellow &
 N. C. Pine, Spruce), Drexel bldg
 \$Este, Chas., Glenwood av nr N 20th
 \$Fritz, Wm. H. & Co., Crozer bldg
 Gardy, Wm. R. (Yellow Pine Flooring), Land
 Title bldg
 \$Garman, A. St. Clair, 1730 N 6th
 \$Geissel & Richardson, Ridge av e Master
 \$Gillingham, Frank C. & Son Co., Norris
 n Richmond
 \$Givin, Anderson, Real Est., Trnst Co. bldg
 \$Goodline & Evans (Pine & Hardwood), Land
 Title bldg
 \$Hallowell, Eli B. & Co. (Hardwood, Pine &
 Cypress Lumber), Harrison bldg
 \$Hammer, Thos. B., Girard bldg
 \$Holloway Lumber Co. (Hemlock, Hard-
 woods & N. C. Pine), West End Trust
 \$Janney, Jos. W., 923 N Del av bldg
 \$Kay, Robt. G. (W. Va. Spruce, also Pine &
 Hemlock), Girard bldg
 \$Kent, J. S. Co. (All Pine, Spruce & Shin-
 gles), Harrison bldg
 \$Ketcham, Benj., Jr., 229 N Broad
 \$Kirby & Hawkins (White & N. C. Pine,
 Hardwood & Ties), Arcade
 \$Kugler, Geo. W. & Sons, 921 New Market
 \$Little, Jno. J., Land Title bldg
 \$Little River Lumber Co., Girard bldg
 \$Lloyd, Sam'l & Co., 1217 Filbert
 \$Lloyd, Wm. M. Co. (Ltd.), Ridge av e
 N 29th
 \$Lnkens Bros. (Pine, Spruce, Hardwood &
 Shingles), 809 N Delaware av

*Lukens, Jesse & Co., 3400 N 6th
 \$McIlvain, J. Gibson & Co. (Hardwood a
 Specialty), S 58th e Woodland
 \$Malone, Watson & Sons, Pier 44, N. Del
 av
 \$Maus, H. H. & Co. (N. C. Yellow Pine,
 Shingles, Lath, Cypress, R. R. Ties, Poles,
 etc.), 416 Walnut
 *Miller & Miller (Spruce & Hardwood), Ar-
 cade bldg
 \$Nass, Geo. & Son, N Broad & Viue
 \$Otter Creek Broom & Lumber Co. (Hem-
 lock), Witherspoon bldg
 *Pamlico Lumber Co. (N. C. Pine), Land
 Title bldg
 \$Peart, Nields & McCormick Co., Harrison
 \$Pennell, Edfund, Penna bldg
 \$Producers' Lumber Co. (Yellow Pine), Land
 Title bldg
 \$Provident Lumber Co., Penn sq bldg
 *Rawson, Wm. L., 1011 Chestnut
 \$Rhoads, I. H., Drexel bldg
 *Rice, Thos. B. & Sons Co. (White Pine &
 Hemlock Lumber), Real Est. Trnst Co.
 bldg
 *Roper, Jno. L. Lumber Co. (N. C. Pine &
 Cedar Shingles), Girard bldg
 \$Rumbarger Lumber Co. (Red Oak, Cherry,
 Spruce & Hemlock), Harrison bldg
 \$Schofield Bros. (White Pine, Spruce, Hem-
 lock, etc.), Penna. bldg
 \$Shearer, Sam'l H. & Son, Crozer bldg
 *Shick, Henry H. Mfg. Co. (Cigar Box Lum-
 ber), 529 Columbia
 \$Smith, F. A. (Yellow Pine), 30th & Spruce
 \$Souder, E. A. & Co. (Pine & Cypress), Gir-
 ard bldg
 \$Spiegle, Geo. M. & Co. (Somerset e N. 18th
 \$Stokes Bros. Co., 30th, below Chestnut
 *Strong, Jas. & Co. (Hemlock, Poplar, Oak,
 White Pine & Chestnut), Real Estate Trust
 Co. bldg.
 \$Talley, Thos. J. (Piling, Hemlock, Pine,
 Spruce & Oak Bill Stuff), Land Title Bldg.
 \$Ternan & White, 2711 N Broad
 \$Thompson, A. (Spruce & Hemlock), Betz
 Bldg.
 \$Thompson, Lewis & Co. (R. R. Ties &
 Posts), 127 Walnut
 \$Vrooman, S. B. Co. (Ltd.) (Yellow Pine &
 Mahogany), 1133 Beach
 \$Warner, Geo., Drexel Bldg.
 \$Weitzel, P. Elmer & Bros., 3120 Gtn. av.
 \$Wheeler, R. B. & Co., Crozer Bldg.
 \$Whitmer, Wm. & Sons (Inc.), (Hardwood,
 White Pine & Spruce), Girard Bldg.
 \$Williams, Alex. O., 1855 N. 6th
 \$Williams J. R. & Co., Arcade Bldg.
 *Williams & Van Roden (Ash, Poplar & Oak),
 German-American Bldg.
 \$Wistar & Underhill, Real Estate Trust Co.
 Woddrop & Welch, Betz Bldg.
 PHILLIPSBURG—\$Hoover, G. W.
 PHILLIPSVILLE—Moon Bros. (Saw & Shingle
 Mill)
 PIGEON—\$Amsler, E. E. (Lumber & Saw Mill)
 \$Forest Lumber Co.
 PINE GROVE—\$Boyer, Mahlon H. (Lumber &
 Fegeley, Morris (Saw Mill) Saw Mill)
 PINKERTON—\$Deal, Levi (Lumber & Saw Mill)
 \$Huston, H. C. (Lumber, etc.)
 PITTSBURG—\$American Lumber & Mfg. Co.
 (Timbers, Lumber, Glazed Factory Sash,
 Factory Mill Work, etc.), Publication Bldg.
 \$Babcock, E. V. & Co. (Hemlock, White &
 Yellow Pine & Maple Flooring, Hardwood &
 Shingles), Frick Bldg.
 \$Curil & Lytle Lumber Co., Park Bldg.
 *Flint, Erving & Storer (White & Yellow
 Pine, Oak, Poplar & Hemlock, White Pine
 Lath, Red Cedar, Pine Cypress & Hemlock
 Shingles), Farmers' Bank Bldg.
 *Floralia Saw Mill Co.
 \$Forest Lumber Co., Park Bldg.
 *Furnace Run Saw Mill & Lumber Co. (White
 Pine, Hardwood, Bridge Timbers, Car Stuff,
 Telegraph Poles & Street R. R. Ties), 246
 3d av. Mills, Furnace Run, Pa.
 \$Gillespie, D. L. & Co. (Pitch Pine, etc.),
 541 Wood
 \$Hastings, J. M. Lumber Co. (Yellow Pine),
 541 Wood
 \$Interior Lumber Co., Smith blk
 \$Keystone Lumber Co., ft. of S. 17th
 \$Linehan Lumber Co., Farmers' Bank Bldg.
 \$McIlvain, J. E. & Co., House Bldg.
 \$Mead & Spear Co. (Wholesale Lumber, Lath,
 Shingles, R. R. Ties, Bridge Timbers,
 etc.), Park bldg
 \$Mitchell, W. I., Schmidt Bldg.
 \$Munhall, R. J. Lumber Co., S. 22d & Whar-
 ton
 \$Murphy, H. Mill & Lumber Co. (Yellow
 Pine), 6353 Station
 \$Nicola Bros. Co. (Red Cedar Shingles, Gum,
 Cottonwood, Hardwoods, Maple Flooring,
 etc.), Farmers' Bank Bldg.
 \$Noble, John H., Murland Bldg.
 *Ruskauff Lumber Co., Park Bldg.

§Sattler L. L. Lumber Co., Bessemer Bldg.
§Schuette, Wm. H. Co., Ferguson Block
§Terhune, W. E. & Co. (White & Yellow Pine & Hemlock), Park Bldg.
§Thompson, Dwight, House Bldg.
*Turner, A. M. Lumber Co. (Cypress Lumber & Shingles), Ferguson Bldg.
West Virginia Lumber Co., 335 Water
Wheeler, J. R. & Co. (Pattern, Templet, Flak & Tank Lumber, Roofing & Furring Strips, Yellow Poplar for Carriage & Piano Mfrs.), Park Bldg.
§Wlgman Lumber Co., 48 S. 18th
§Willson Bros. Lumber, Lath & Shingles, Farmers' Bank Bldg.
PITTSVILLE—Shepherd, Frank
PLEASANT MOUNT—Spencer, D. E. (Saw Mill)
POCOPSON—Denton, Joseph S. (Saw Mill)
POND HILL—Boyd, Morris (Saw Mill)
Romley, F. E. & Co. (Lumber & Saw Mill)
POTTSTOWN—Healey, J. A. & Bro.
Snyder, H. J.
POTTSVILLE—Beecher, J. W. (Mine Lumber, Beecher & Co. (Lumber) etc.)
READING—Anchor Bending Works (Saw Mill)
Buch Bros., 200 N. 6th
Central Lumber Co., 234 Walnut
*Lance, Geo. F. (Walnut, Cherry, Shingles, etc.), 3d e. Buttonwood
*Thalheimer, A. Mfg. Co., 141 Cedar
REXIS—*Vinton Lumber Co. (Ltd.), (Hemlock)
RICKETS—*Trexler-Terrell Lumber Co. (Hemlock, Spruce, etc.)
RIDGWAY—*Gardner Shingle Co. (Shingles & Lumber)
*Hyde, W. H. & Co.
*Hyde & Thayer
Murphy Dry Kiln Co. (Lumber)
Thayer, H. S.
ROCKWOOD—*Barron Bros.
Wolf, Penrose (White Oak, etc.)
ROYERSFORD—Bush Bros. (Planing Mills)
ST. CLAIR—*Reichley Bros. (Mine Timber)
ST. MARY'S—*Kaul, J. & A.
*Kaul & Hall Lumber Co.
*Portland Lumber Co.
SCRANTON—*Alamogordo Lumber Co., 405 Board of Trade
*Ansley Lumber Mfg. Co. (Shingles, Flooring, etc.), 801 Scranton
*Cherry River Boom & Lumber Co., Board of Trade Bldg.
§Davenport, John D., Board of Trade Bldg.
§Lackawanna Lumber Co. (Hemlock & Hardwood), Board of Trade Bldg.
§Newman, J. J. Lumber Co., Board of Trade Bldg.
*Price & Howarth, 1001 N. Wash'n av.
*Washburn, Williams & Co., 119 Meriden
SHAMOKIN—*Kulp Lumber Co.
*Shamokin Lumber & Mfg. Co.
SHIPPENSBURG—Burns, H. & Co. (Saw Mill)
SOUDERTON—*Souder, Wm. (Saw Mill)
SPRING MILLS—*Finkel, A. N. (White Oak & Pine)
SUNBURY—Clement, Ira T. (est.), (Planing Mill)
Laurelton Lumber Co. (Hardwood & Mining Timber)
*Linden Hall Lumber Co.
*Whitmer, Wm. & Sons (All Kinds)
TAMAQUA—Zehner, Jacob (Saw Mill)
TIDIOUTE—*Hunter, L. L.
Stillman, J. A. (Saw Mill)
TIONESTA—*Agnew, Braden & Co.
*Dale, J. T. & A. H.
*Foreman, H. M. (Lumber & Ties)
*Gaston, G. G. (Lumber & Saw Mill)
*Kelly, A. B. (Lumber)
*Landers & Wyman (Lumber)
*Lawrence & Smearbaugh
*Osgood & Jameson (Lumber)
*Robinson, G. W. (Saw & Planing Mill)
TITUSVILLE—*Newton Bros.
TOWANDA—Ellenberger, S. B.
Ellenberger & Yeager
TYRONE—*Beyer, F. D. & Co. (Saw & Planing Mill)
URSINA—*Davis, J. B. & Sons (White Oak, Poplar, etc.)
*Van Sichel, E. (White Oak, etc.)
WARREN—*Rogers, B. W. (Hemlock, Pine, Hardwood Flooring, Mouldings, Lath, Shingles, House Finish, etc.)
*Wetmore Lumber Co.
WHITE HAVEN—Barry, Jacob (Saw Mill)
WILKES-BARRE, PA.—Sturdevant, S. H. Sons.
WILKINSBURG—*Fuller, E. D.
WILLIAMSPORT—*Bowman, Forseman Co. (Hemlock, etc.)
*Breon, George B. (Hardwood, Hemlock & White Pine Boxes, Crates, etc.)
*Brown, Clarke & Howe (Lumber, Lath, etc.)
*Central Penna. Lumber Co. (Planing, etc.)
*Coleman, John (Hemlock, etc.)
*Deemer, Elias & Co.
*Emery Lumber Co. (Hemlock, Long, Large Bills)
*Hall, John L.
*Kavanaugh, Daniel
Keystone Lumber Co.

*Righter's, W. Sons & Co. (White Pine & Lumber, etc.)
*Sones, C. W.
*West Branch Lumber Co.
*Williamsport Planing Mill Co.
WOODBURY—Frederick, Adam (Saw Mill)
WYALUSING—*Ellsworth & Stevens (Shingle Mill)
*Welles, M. H. & G. H.
YORK—*Billmeyer & Small Co. (Hemlock, White Pine & Oak)
*Parkhurst & Co.

RHODE ISLAND.

FOSTER CENTRE—Searle, Franklin V. (Saw Mill)
Spear, Geo. & Wm. (Saw Mill)
PROVIDENCE—*Angell, H. M., 49 Westminster
§Gage, L. H. Lumber Co. (Hardwood), 32 Westminster
*Kile & Morgan, 32 Westminster
*Potter, J. A. & Co. (Southern Pine, etc.), Union Trust bldg
§Warner, Wm. D. (Commission), Banigan hldg
WASHINGTON—Hopkins, Clinton (Saw Mill)

SOUTH CAROLINA.

ALCOLU—*Alderman, D. W. & Sons Co.
ALLENDALE—Bryan Bros. (Saw Mill)
BATESBURG—*Batesburg Lumber Co.
Rawl, J. J. & Son (Saw Mill)
BELLS—Bryan, F. & W. (Saw Mill)
BLYTHEWOOD—Langford Bros. (Saw Mill)
BOWYER—McCoy, A. E. (Saw Mill)
BUCKSPORT—*Richardson Cypress Lumber & Shingle Co.
CAMERON—Ulmer & Anthony (Saw Mill)
CHAPLIN—Robinson, C. P. (Saw Mill)
CHARLESTON—*Anderson Lumber Co. (Lumber, Ties and Shingles)
*Barton, A. J. (Planing Mill, etc.)
*Burton, E. P. & Co.
*Cook, W. P. & Co. (Ties, etc.)
*Halsey Lumber Co.
Simmons Benj. I. (Lumber, Timber, Shingles, Yellow Pine Lumber, etc.)
CORDESVILLE—Avinger, R. E. M. (Saw Mill)
COTTAGEVILLE—Ackerman, C. K. & Co. (Saw Mill)
Ackerman, J. D. & Bro. (Saw Mill)
DOVESVILLE—Young, W. D. (Saw Mill)
EFFINGHAM—*Dorgan Lumber Co. (Saw Mill)
EHRHARDT—Donnelly, J. M. (Saw Mill)
Ehrhardt, C. & Sons (Saw Mill)
ELLENTON—Savannah Valley Lumber Co. (Saw Mill)
ELLOREE—Tilley, D. E. (Saw Mill)
FERGUSON—*Santee River Cypress Lumber Co. (Cypress, Hardwoods, Ash, Gum, Cottonwood, Pine, Shingles, Lath, Mouldings, etc.)
GEORGETOWN—*Atlantic Coast Lumber Co.
*Gardner & Lacey Lumber Co.
GREENVILLE—*Mallard Lumber Co. (Yellow Pine)
HAMPTON—*Hampton & Branchville Ry. & Lumber Co.
HONEA PATH—Honea Path Lumber Co. (Saw Mill, etc.)
HONEY HILL—Henderson, Wm. (Saw Mill)
KINGSVILLE—Trumble, Edwin (Saw Mill)
LEESVILLE—Barr, C. D. (Saw Mill)
LEXINGTON—Barre, W. W. (Saw Mill)
LORENA—Shiry, Geo. C. (Saw Mill)
LORIS—*Bryant, J. C.
Butler, J. G. (Saw Mill)
LUGOFF—Jones, J. N. (Saw Mill)
Parker, H. E. & Bros.
LUMBER—*Williams & McKeithau Lumber Co. (Lumber & Saw Mills)
McBEE—Austin Bros. (Saw Mill)
Monroe, H. T. (Saw Mill)
McCLELLANVILLE—Leland, H. G. (Saw Mill)
Morrison & Murray (Saw Mill)
McCALL—McLaurin, W. S. (Saw Mill)
MARS BLUFF—Ranklin, W. L. & Bro. (Saw Mill)
MARTIN—Ellis, T. B., Jr. (Saw Mill)
OAKWOOD—Johnson, J. H. (Saw Mill)
PEAK—Eagle, A. E. (Saw Mill)
PINWOOD—Brown, D. W. (Saw Mill)
PROSPERITY—*Wheeler, H. (Lumber & Saw Mill)
RIDGEVILLE—Thrower, D. E. (Saw Mill)
ROWESVILLE—Dukes, W. P. & Son (Saw Mill)
Simmons, Jno. F. (Saw Mill)
ST. GEORGE—Wimberley, Jno. S. (Saw Mill)
ST. MATTHEWS—Zeigler & Cain Milling Co. (Saw Mill)
ST. STEPHEN—Russell, W. P. (Saw Mill)
SARDIS—Hudson, E. E. & Co. (Saw Mill)
SENECA—Hamilton, W. O. (Saw Mill)
SPRINGFIELD—Rice & Holman (Saw Mill)
SWANSEA—Rast, W. B. (Saw Mill)
TROY—Banks & Cheatum
UNION—Bailey Lumber & Mfg. Co.
*Union Hardware Mfg. Co.
WESTMINSTER—Hall, T. N. (Saw Mill)
Williamston Lumber Co. (Saw Mill, etc.)

WEST UNION—Rowland, D. H. (Saw Mill)
Shackley, J. C. (Saw Mill)

TENNESSEE.

BIG SANDY—Wyatt, J. H. (Staves)
BRISTOL—*Bryan Lumber Co. (Hardwood)
Gillett, E. A. & Sons (Saw Mills)
*Morton, Lewis & Wiley Lbr. Co.
*Stone-Huling Lbr. Co.
§Tug River Lumber Co.
Whitten, Gny M. & Co.
Wilkinson, Jas. A.
CHATTANOOGA—*Blair, F. W. (Poplar, Oak, Ash, etc.)
§Card, J. M. Lbr. Co. (Wholesale & Exporters)
§Central Mfg. Co. (Band Sawed Poplar, Pine, Chestnut & Oak, & Lumber for Electrical Work, Flooring, Siding, Shingles, etc.)
*Chattanooga Lumber Co.
*East Tennessee Lumber Mfg. Co.
*Loomis & Hart Mfg. Co. (Saw & Planing Mills)
*Snodgrass & Field.
CLIFTON—Newcomb, W. H. (Saw Mill)
CLOVER BOTTOM—Bachman, E. H. (Saw Mill)
COBLE—Self, D. J.
COLLIERSVILLE—Campbell, A. J. (Saw Mill)
Kirk, Felix (Saw Mill)
COLUMBIA—*Harris & Cole Bros. (Poplar, Bored Columns)
COVINGTON—Shelton & Co.
Ward, T. (Saw Mill)
CRANDELL—*Empire Lumber & Mining Co.
DYERSBURG—*Stevens, A. M. Lumber Co.
HARRIMAN—Dame Mantel Co. (Quartered Oak & Curly Birch, etc.)
JACKSON—*Coleman, W. H. Co. (Tight Barrel Cired Headings, etc.)
JOHNSON CITY—*Buck, J. M. Lumber Co. (Hardwood)
KNOXVILLE—*Harris Mfg. Co. (Plain & Quartered Oak, Dimension Stock)
§Logan, J. M. & Maphert Lumber Co.
§Michaels, T. M.
*Rose, D. M. & Co.
*Ross, McMillan & Co.
LEWISBURG—*Houston & Liggett (Red Cedar Lumber, Taper Sawed Posts, Flooring, Telegraph & Telephone Poles)
LOUDEN—Ward, A. W.
McMINNVILLE—*Brown, Geo. C. & Co. (Hardwood, Tenn. & Ala. Red Cedar, Lumber, etc.)
MEMPHIS—*Allen, T. B. & Co. (Hardwood, Randolph bldg)
*Anderson-Tully Co. (Box Shooks, etc.), N 2d & I. C. R. R.
Applewhite & Welford (Tight Cooperage & Supplies)
§Arthur Hardwood Flooring Co., I. C. Ry. & Thomas av
*Bennett Hardwood Lumber Co.
§Blanton-Thurman Lbr. Co. (Yellow-Miss. Cypress), Randolph bldg
Broughton Mantel Mfg. Co.
*Chickasaw Cooperage Co. (Cooperage Materials, etc.)
*Cochran Lumber Co. (Cottonwood, Box Shooks, etc.), Keel, opp N Main, Chelsea
*Cole Mfg. Co., 27 Hernando
Crenshaw & Cathey
*Darnell, I. M. & Son Co. (Hardwood), 96 McLeomore av
*Darnell-Love Lumber Co.
De Soto Lumber & Mfg. Co., 27 Planters' Ins. bldg
*Dickson, J. W. Lbr. Co. (Oak, Ash, Gum, Cottonwoods, etc.), Wolf River & I. C. R. R. Bridge
Fenn Bros. Co. (Hardwood Flooring), Kansas & Mallory av
*Friedel, P. R. & Co. (Long Leaf Yellow Pine & Oak)
§Gage, L. H. Lumber Co., So. Ex. bldg
*Gladden Lumber Co. (Hardwood), Kansas av nr Division
§Goodlander-Robertson Lumber Co. (Poplar, White & Red Oak), 1116 Kansas av
*Hardwood Co. (Hardwood), N 2d & I. C. R. R.
*Holmes, J. A. Lumber Co., I. C. R. R. nr Randolph rd
Jordan, J. P. & Co., 358 2d
§Lamb-Fish Lumber Co. (Hardwood), 720 Memphis Trust bldg
Major, S. C. Lumber Co. (Ash), I. C. R. R. nr Driving Park
Memphis Stave Mfg. Co. (Slack Barrel Staves)
§Meredith, J. P. Cedar Co. (Red Cedar, Pil-ing, Poles & Posts), Equitable bldg
*Moore & McFerren (Hardwood), Heury
Ray, B. F. & Co., 385 2d
*Russe & Burgess (Hardwood, Plain & Quartered Oak, Satin Walnut, Poplar, Tupelo, Gum, Bay Poplar), Randolph rd & I. C. R. R.
*Scratcherd & Son, Brinkley av c L. & N. R. R.

§Smith, W. E. Lumber Co. (Hardwood), 1406 Tenn. Trust bldg
Stark, Jas. E. & Co., Randolph bldg
*Taenzer, E. E. & Co. (White & Red Oak, Ash, Satin Walnut, Poplar, Thin Slizes a Specialty), 183 Florida av
Tennessee Lumber Co., 41 Madison
*Three States Lumber Co. (Hardwood), 1406 Tenn. Trust bldg
*Thompson, J. W. Lumber Co. (Hardwood), Oak, Ash, Poplar, Cypress, etc., Randolph rd & I. C. R. R.
*Union Mfg. Co. (Walnut, Parquet, Strips, Chair Stock, etc.)
*Williams & Co. (Poplar & Oak), 371 2d
NASHVILLE—*Atlantic Lumber Co. (Hardwood)
*Davidson-Benedict Co. (Poplar, Oak, Ash, etc.)
*Hayes, A. L. Co. (Lumber & Tight Barrel Staves, etc.)
*Indiana Lumber Co. (Hardwood)
*Lieberman, Loveman & O'Brien
*Love, Boyd & Co. (Oak, Ash, Poplar, Chestnut, Sycamore, Hickory, Rough & Dressed)
*Nashville Tie & Cedar Co. (Cross Ties & Cedar Piling)
*Nashville Hardwood Flooring Co.
*Prewitt, Spurr & Co. (Hardwood)
*Ransom, John B. & Co. (Rough & Dressed Red Cedar, Yellow Poplar, Walnut, Ash, Oak & Red Cedar Flooring)
NEW RIVER—*New River Lumber Co. (Hardwood)
POCAHONTAS—Newland, J. J.
SOUTH PITTSBURG—Haskew Lumber Co. (Saw Mill)
SPARTA—Carter, E. E. (Saw & Shingle Mill)
Tuhhs & Butler (Staves)
TIGER TAIL—Tiger Tail Mill & Land Co. (Cottonwood, Poplar, Gum & Oak)
UNION CITY—*Askins & Dircks Lumber Co. (Poplar, Oak, Ash & Gum, Furniture, Dimension and Baluster Stock)
WAVERLY—Young, J. D. (Saw Mill)

TEXAS.

AVINGER—*Brown Lumber Co. (Yellow Pine)
BEAUMONT—*Industrial Lumber Co. (L. L. Yellow Pine)
*Keith Lumber Co. (Yellow Pine)
*Nona Mills Co. (Yellow Pine)
*Sablne Tram Co. (Yellow Pine)
*Village Mills Co. (Yellow Pine)
CALL—Kirby Lumber Co.
CAMDEN—*Carter, W. T. & Bro. (Yellow Pine)
CLINE—*Foster Lumber Co. (Yellow Pine)
DALLAS—*Clark & Boise Lumber Co. (Yellow Pine)
*Conway, Craig Lumber Co. (Lumber & Shingles)
*Craven Lumber Co. (Yellow Pine Lumber & Cypress Shingles)
*Dealey Lumber Co. (Yellow Pine Lumber & Cypress Shingles)
*Godlay, R. B. Lumber Co.
*O'Neil, W. H. & Co.
DIBOLL—*Southern Pine Lumber Co. (Yellow Pine)
ELMINA—*Walker County Lumber Co. (Yellow Pine)
EMPORIA—*Emporia Lumber Co. (Yellow Pine)
FORT WORTH—*Cowley-Foster Lumber Co.
*Ford & Isbell Lumber Co.
*Reynolds-Hanna Lumber Co.
GALVESTON—*Miller & Vidor Lumber Co. (Yellow Pine)
*Moore & Goodman (Lumber, Lath & Shingles)
§Sachs, Hugo (Yellow Pine, Cypress Lumber & Shingles)
§Wilson, D. M. & Co. (Piling & R. R. Material)
GILMER—*Commercial Lumber Co. (Yellow Pine, Lumber & Shingles)
GROVETON—*Trinity County Lumber Co. (Yellow Pine)
HAMPTON—*Fleming, D. H. & Son (Band Sawn, L. L. Yellow Pine)
HOUSTON—*Bender, C. & Son
*Bering Mfg. Co. (White & Yellow Pine, Cypress, Mouldings & Exterior Finish)
*Big Tree Lumber Co. (Yellow Pine Lumber & Red Cedar Shingles)
§Burkitt & Barnes (Lumber, Ties & Timber)
§Burton Lumber Co. (Mouldings, Shingles, Cedar & Cypress Posts, etc.)
*Campbell, James I. (Yellow Pine, Red Cedar, Lumber, Posts & Shingles)
*Carter Lumber Co. (Yellow Pine)
§Central Lumber Co. (L. L. Yellow Pine, Lath, Red Cypress, etc.)
*Continental Lumber Co. (Yellow Pine, Cypress, Shingles, etc.)
*Cummings, C. R. & Co. (Exporters, Hardwood)
*Emporia Lumber Co. (L. L. Yellow Pine, Lath, Red Cypress, Lath & Lumber, Shingles, etc.)
§Fall, H. B.

§Harrell, Ed. H. Lumber Co. (L. L. Yellow Pine, Lath & Cypress Lumber, Interior Finishes, etc.)
§Hill, J. C. Lumber Co. (Lumber & Shingles)
*House, Henry (Lath, Shingles, Mouldings, Ceilings, etc.)
*Houston Co-Operative Mfg. Co.
§Inter-State Lumber Co.
*Norris, W. H. Lumber Co. (L. & S. Leaf & Yellow Pine Lumber & "Gilbert's" Shingles)
*Swinford, S. T. Co. (Yellow Pine)
*Texas & Louisiana Lumber Co. (Yellow Pine & Red Cypress Lumber, Lath, Pickets, Posts, Timbers, Ties, etc.)
§Thompson Bros. Lumber Co.
*Thompson-Tucker Lumber Co. (Yellow Pine)
*Trinity River Lumber Co. (L. & S. Leaf Pine, Lumber & "Gilbert's" Shingles)
*Ware, Wm. Lumber Co. (L. L. Pine Lumber, Interior Finish, Flooring, Fencing, etc.)
JEFFERSON—*Torrans Mfg. Co. (Yellow Pine)
JOSSELAND—*Josserand Lumber Co. (Yellow Pine)
KELTYS—*Angelina County Lumber Co.
KENNARD—Louisiana & Texas Lumber Co.
KILDARE—Kildare Manufacturing Co.
LONGVIEW—*Brown, R. G. (Yellow Pine)
*Brown & Flewellen (Yellow Pine)
LODOWICK—*Lodwick Lumber Co. (Yellow Pine)
LUFKIN—*Lufkin Land & Lumber Co. (Yellow Pine)
MOSCOW—Moscow Lumber Co.
NACOGDOCHES—*Galloway & Wright Lumber Co. (Yellow Pine)
Nacogdoches Crate & Lumber Co.
*Hayward Lumber Co. (Yellow Pine)
NEW WAVERLY—Tackaberry Lumber Co. (Yellow Pine)
NOEL—*Drikell, D. C. & Bro. (Yellow Pine)
OLIVE—*Olive & Sternberg (Yellow Pine)
ORANGE—*Gilmer, A. (Yellow Pine)
*Jones, M. T. Lumber Co. (L. L. Yellow Pine, Shingles, etc.)
*Lutcher & Moore Lumber Co. (Yellow Pine)
*Miller, L. Lumber & Shingle Co.
*Morgan, Roht., Jr. (Yellow Pine)
*Orange Lumber Co. (Yellow Pine)
*Sabine Export Co. (Pitch Pine Exporters)
ROCKLAND—*Cameron, Wm. & Co. (Yellow Pine)
SAN ANTONIO—*Vaughn Lumber Co. (Yellow Pine)
SARON—*Cameron, Wm. & Co.
TENAH—*Parish, J. A. & Co.
TEXARKANA—*Buchanan, Wm. (Yellow Pine)
*Southern Pine Lumber Co. (Yellow Pine)
TRINITY—*Peyton, John B.
TYLER—*Tyler Car & Lumber Co. (Yellow Pine)
VOTH—*Keith Lumber Co. (Yellow Pine)
WACO—*Cameron, Wm. (Yellow Pine & Red Cypress Lumber & Shingles, Lath Mouldings, Piling, Ties, Poles, Posts, etc.)
WARREN—Tyler County Land & Lumber Co.
WAUKEGAN—*Keystone Mills Co. (Yellow Pine)
WESTVILLE—*West Lumber Co. (Yellow Pine)
WILLARD—*Thompson & Tucker Lumber Co. (Yellow Pine)
UTAH.
PROVO CITY—§Ward, E. J. & Sons (Lumber, Lath, Shingles, etc.)
VERMONT.
BARTON LANDING—*Chandler, F. L. Co.
*Skinner, French & Co.
BARTONSVILLE—Lawrence, J. H.
BENSON—Fowler, J. M. (Saw Mill)
O'Donald, Nelson (Saw Mill)
BETHEL—Cushing, C. D. (Saw Mill)
Weston, Ephr. M.
BRATTLEBORO—*Holden & Martin (Wood Mantels, Stair Finish, Boxes, Interior Finish)
Johnson, Chas. C. (Saw Mill)
Lamson, C. B. & Co. (Cigar Box Mfrs.)
BRISTOL—Latrop, Noah (Saw Mill)
BURLINGTON—*Booth, J. R. (Lumber & House Finish)
§Crane, W. & D. G. (also Packing Boxes)
Robinson-Edwards Lumber Co. (Pine & Hardwood, Lath, Shingles & Flooring)
*Shepard & Morse Lumber Co. (Canadian & Western Pine)
CHELSEA—Hatch, Willard S.
CHITTENDEN—Atwood, L. E. & Son (Saw Mill)
CUTTINGSVILLE—Jones, D. G. (Saw Mill)
DANBY—Risdon, D. O. & W. I. (Saw Mill)
EAST ARLINGTON—Judson Mfg. Co.
EAST BARNET—Buck, E. A.
Roy Bros. (Saw Mill)
EAST DUMMERSTON—Crosby, F. F. (Saw Mill)
EAST ELMORE—Duane Lumber Co.
EAST HARDEWICK—Spencer, W. J.
EAST RANDOLPH—Camp, D. J. (Saw Mill)

ESSEX JUNCTION—Brownell, S. A. & C. B. (Saw Mill)
FAIRFIELD—McGinn, Owen (Saw Mill)
FAIRLEE—Perkins, S. W. (Saw Mill)
FOREST DALE—Churchhill, Geo. H. (Saw Mill)
GLEN—Leonard, W. C. (Saw Mill)
GREEN RIVER—Stowe, Hy. S. (Saw Mill)
GREENSBORO—Drown, Norwood L.
GREENSBORO BEND—Robbins, L. E. (Saw & Planing Mill)
GROTON—Ricker Bros. (Saw Mill)
GUILDHALL—Hall, Frank & Sons.
HALE—Merrifield, Hy. (Saw Mill)
HARDWICK—Sawyer, C. M. (Saw Mill)
HARTFORD—Peace, Horace C.
ISLAND POND—*Fitzgerald Laud & Lbr. Co.
JOHNSON—Parker & Stearns (Saw Mill)
LINCOLN—Morgan, A. T. (Saw Mill)
LONDONDERRY—Wait, Ch. Z. (Saw Mill)
MCINDOE FALLS—*Connecticut Valley Lumber Co. (Spruce Lumber, Lath & Shingles)
MONTPELIER—Gishorne Co. (Saw Mill)
Richardson, Orville H. (Saw Mill)
MORETOWN—*Ward, H. O.
NEWFANE—Rogers, E. D.
*Wellman, F. E. (Lumber, Chair, Stock, Shingles, etc.)
NORTH WOLCOTT—Churchhill, Geo. A.
Boynton, A. N.
NORWICH—Sargent, E. P. (Saw Mill)
PEACHAM—Jennison, O. M. (Saw Mill)
PERU—*Hapgood, J. J. & Co.
PLAINFIELD—Batchelder, J. M. & Son (Saw Mill)
Morse, Nelson
PUTNEY—Kulight, Edwin E. (Saw Mill, Boxes, etc.)
RANDOLPH—Bass, B. G. (Saw Mill)
Marcott & Hayes
RAWSONVILLE—Pier, F. B. (Saw Mill)
RIPTON—Huntley, W. S. (Saw Mill)
RUTLAND—*Bissell, E. W. Mfg. Co.
Chaffies, F. Sons
SHARON—Preston, A. B. (Shingles & Lbr.)
Sawyer, Otis C.
SOUTH BARTON—Willoughby Mill & Lumber Co.
SOUTH NEWFANE—Morse, J. E. (Saw Mill)
TOWNSHEND—Willard, Chas. H. (Saw Mill)
VICTORY—Moose River Lumber Co.
WATTSFIELD—Billings, Geo. N. (Saw Mill)
Eaton, O. G.
Moriarty, W. & D. (Saw Mill)
WARREN—Parker, Pliny (Saw Mill)
WASHINGTON—Huntington, Chas. W. (Saw Mill)
WEST BRATTLEBORO—Davis, Chas. H. (Planing Mill)
Smith, Leslie (Planing Mill)
WEST DUMMERSTON—Taft, John (Saw & Shingle Mill)
WILLIAMSVILLE—Bingham, W. E. & Son
Merrifield, A. M. (Saw & Shingle Mill)
WINOOSKI—White, Robt. J.
WORCESTER—Camp, A. H. (Saw Mill)
Ladd, C. M. (Saw Mill)
VIRGINIA.
ABINGTON—*Preston, W. G. & Bradley.
ACHILLES—Rowe, B. A. (Saw Mill)
BELFIELD—*Peart, Nields & McCormick Co. (N. C. Pine, Box Shooks, Flooring, etc.)
BERKLEY—*Barnes, E. H. Co. (Box Shooks, both Veneered & Sawn)
§Tilley, W. M. & Co.
BOYDTON—*Coghill-Goodie Lumber & Mfg. Co.
*Dickinson, T. T. & Bro. (Hardwood)
CHARLOTTESVILLE—*Charlottesville Lumber Co.
*King Lumber Co.
CLAREMONT—*Arrington, H. J. Co. (Hardwood)
FERGUSON'S WHARF—Clark, C. J. (Saw Mill)
FRANKLIN—*Camp Mfg. Co. (N. C. Pine)
HAMPTON—*Huntingdon Industrial Works (N. C. Pine)
JARRATTS—*Cooper & Spottswood (N. C. Pine)
LYNCHBURG—§Adams Bros.-Paynes Co. (Pine & Hardwood)
§Adams-Monroe Mfg. Co. (Millwork)
Massie, R. W. (Saw Mill & Lumber)
NORFOLK—*Angola Lumber Co.
*Batchelder & Collins, 141 Water
Baylor & Cate (Saw & Planing Mills)
§Blake, Frank W.
§Briggs, G. S. & Co. (Air Dried, Edge Stocks, Box Grades, etc.)
*Bull, C. H. & Co. (N. C. Pine)
*Carolina Pine Lumber Co.
*Carolina Timber Co. (Inc.)
*Crockett Lumber & Pile Co.
§De Bordenave, L. F. Co.
*Dickson Lumber Co.
*Duke & Smith (N. C. & Georgia Heart Pine)
*Fosburgh Lumber Co. (Kiln Dried North Carolina Pine, Rough & Dressed)
§Freeman, E. B. (N. C. Pine Boards)
*Johnson, Charles R.
*Littleton Lumber Co. (N. C. Pine)
§McCullough, Frank W. (Large Timber, etc.)
§McKann, M. & Co. (Inc.)
§Norfolk Hardwood Co., 63 Haddington bldg

Perry-Coghill Tie & Lumber Co.
 *Powell, Z. H.
 *Reed Bros. & Co. (Hardwood)
 *Richmond Cedar Works
 *Roanoke, R. R. & Lumber Co. (N. C. Pine)
 *Robertson, W. W. & Co.
 *Roper, John L. Lumber Co. (N. C. Pine, Flooring, Ceiling, etc.)
 *Southern Pine Timber Co.
 *Tilley, W. M. & Co. (Saw & Planing Mills)
 *Traut, John H., Jr., Sanford bldg
 *Virginia-Carolina Tie & Wood Co.
 Watkins, E. A. & Bros. (Saw & Planing Mills)
 *West Lumber Co.
 *Wiley, Harker & Camp Co. (N. C. Pine)
 *Wilsou, Wood & Lumber Co.
 NORTON—*Boice & Grogan (N. C. Pine & Cypress)
 PENNINGTON GAP—*Pennington Lumber Co. (N. C. Pine)
 PORTSMOUTH—*Hart, Jno. N. (Saw & Planing Mill)
 *Phillips & Mahoney (Saw & Planing Mill)
 RICHMOND—*Campbell, T. Lewis, 17 S 9th
 Dietrich, D. A. & Bro. (Saw & Planing Mill), 2701 E Main
 *Ellington & Guy (Yellow & N. C. Pine), 200 S 9th
 Francis, W. R. & Bros. (Saw & Planing Mill), 1206 Taylor
 *Gunn, E. G., 2211 E Main
 *Gunn, W. S., 1123 W Broad
 Hardwicke, Chas. W. & Co. (Saw & Planing Mill)
 Heppert, Jos. (Saw & Planing Mill), Graham c W Clay
 *Montague Mfg. Co. (Saw & Planing Mill)
 Richmond Wood Working Co. (Saw & Planing Mill), 14 N 7th
 Slewiers, Richard A. (Saw & Planing Mill), 604 W Canal
 *Sittingding-Carueal-Davis Co. (Saw & Planing Mill), Lombardy c Moore
 *Taliaferro & Co., 901 E Byrd
 *Woodward & Son (Yellow & White Pine, Hardwood of All Kinds, etc.), 330 S 9th
 SOUTH BOSTON—*Snow Lumber Co.
 SUFFOLK—*Cramer, Alfred B. (N. C. Pine)
 *Dennis, R. G. Lumber Co. (N. C. Pine) Gay Mfg. Co.
 TACOMA—*Sheip & Vandegrift (Cigar Box Lbr.)
 TEMPERANCEVILLE—Jones, J. H. (Saw Mill)
 WEST POINT—Adkins, E. S. Lumber Co. (Saw Mill)
 *Richardson, R. E. (Lumber Mill)
 WHEALTON—Lankford, Tull (Saw Mill)
 WHITEMARSH—Purcell, A. F. (Saw Mill)
 WOODFORD—Bowie, O. (Saw Mill)
 Bowie & Vaughau (Saw Mill)
 WOODSTOCK—French, M. V. (Saw Mill)
 Harris, I. H. (Saw Mill)
 WYTHEVILLE—Crowgey, H. J. (Saw Mill)

WASHINGTON.

ABERDEEN—*Aberdeen Lumber & Shingle Co. (Lumber & Shingles)
 *Aberdeen Mfg. Co. (Planing Mill)
 *American Mills Co. (Lumber & Shingles)
 *Bryden & Leitch Lumber Co.
 *Wilson Bros. & Co. (Saw & Planing Mill)
 ACME—*Acme Mill Co. (Shingles)
 Anderson, Nelson & Co.
 ANACORTES—West, A. J. Lumber Co.
 Western Lumber Co.
 ARLINGTON—*Anderson & Eckels (Shingles)
 Brown & Kunze
 *Kuntz Bros. (Shingles)
 Williams, Carlson & Svensson
 BALLARD—*Campbell Shingle Co. (Red Cedar)
 Cochran & Zook Mill Co. (Shingles)
 *Hatfield & Roberts (Red Cedar Shingles)
 McLaughlin Taylor Co.
 *Seattle Cedar Lumber Mfg. Co. (Red Cedar Lumber & Shingles)
 *Stimson Mill Co. (Lumber, Lath, & Shingles)
 *Sobey Mfg. Co. (Red Cedar Shingles)
 Star Shingle Mill Co.
 BARRON—*Eureka Gold Mining Co. (Saw Mill)
 BAYVIEW—*Butters, Geo. L. (Shingles)
 Stitt, J. C.
 BELLINGHAM—*Bellingham Bay Improvement Co.
 *Bellingham Timber & Logging Co.
 *De Can, D. H. (Shingles)
 Hastings Shingle Mfg. Co. (Ltd.)
 *Lake Whatcom Logging Co.
 *Larson Lumber Co.
 *Miller Bros. Shingle Mill Co.
 Morrison Mill Co.
 *Pancoast Shingle Co.
 *Siemens Lumber Co.
 Silver Beach Shingle Co.
 *Standard Mfg. Co. (Shingles)
 West Coast Timber Co.
 Western Pine & Fir Co.
 Whatcom Fall Mills Co. (Saw Mill, etc.)
 BIG LAKE—Clear Lake
 *Parker Bros. (Red Cedar Shingles)

BLAINE—Blaine Shingle Co.
 Eclipse Shingle Co.
 *Erie Mill Co. (Shingles)
 Modern Shingle Mill
 BLOCKHOUSE—*Bishop, M. S.
 Shurtz & Sons (Saw Mill)
 Woods Bros. (Saw Mill)
 BOTHELL—Oakville Shingle Co. (Shingles)
 *Co-Operative Shingle Co. (Shingles)
 BREMERTON—*Port Orchard Lumber & Transportation Co.
 BRYANT—Chapman, John
 Larson, J. V.
 Stinson Mill Co.
 BUCKLEY—Boise Creek Mill Co.
 Defiance Lumber Co.
 *McNeely & Fettig (Shingles)
 Stoker, W. S.
 *Page Lumber Co. (Lumber & Shingles)
 *Valley Mill Co. (Lumber)
 BURLEY—Allen Shingle Co.
 BURLINGTON—American Shingle Co.
 CASTLE ROCK—Huntington, L. W. (Saw Mill)
 *Metcalf Shingle Co. (Shingles)
 *Robin & Son (Shingles)
 CEDARHOME—*Cedarhome Cedar Lumber Co. (Lumber)
 CENTRALIA—*Centralia Shingle Mills
 Foran Bros.
 Lincoln Creek Lumber Co.
 *Martin Lumber Co.
 *West Coast Lumber Co.
 CHATTAROY—Sexton, J. F. & Co.
 CHEHALIS—Chehalis Shingle & Lumber Co. (Cedar Posts & Shingles, etc.)
 *Miller, H. J. Lumber Co. (Lumber & Shingles)
 CHESAW—Richter Bros.
 CHRISTOPHER—Meredith Lumber Co.
 CLAYTON—*Holland-Horr Lumber Co.
 CLEARBROOK—Clearbrook Lumber Co. (Saw, Shingle & Planing Mill)
 Magal Cedar Co.
 Miller & Sons
 CLEAR LAKE—Clear Lake Lumber Co.
 CLE ELN—Wright Bros. (Saw Mill)
 COLFAX—*Codd Bros.
 COLVILLE—Winslow Bros. (Saw Mill)
 Wisner, Geo. & Co. (Saw Mill)
 CONCONULLY—Bolin, W. C. (Saw Mill)
 CONWAY—*Hatch, F. N. & Sons (Shingles)
 COSMOPOLIS—*Grays Harbor Commercial Co. (Spruce & Red Cedar Shingles, Fir Tanks, Crosssties, Poles, Dressed Lumber for Interior Finish, Ceiling, Siding, Wainscoting, Mill Work, Box Shooks, Mixed Cars of Lumber & Shingles, etc.)
 COUPENVILLE—*Island Mfg. Co. (Saw & Shingle Mill)
 CRESTON—Peasley, J. D. & Son (Saw Mill)
 DEER PARK—*Deer Park Lumber Co.
 Hanley & Haer (Saw Mill)
 Holden Co. (The)
 Standard Lumber Co. (Lumber, Lath & Shingles)
 DEMING—*Alaska Shingle Co. (Shingles)
 Carsten & Earles
 Dedman & South
 *United Shingle Co. (Shingles)
 DRYAD—*Chandler, D. M. & Bro. (Shingles)
 *Leudinghaus Bros. (Saw Mill)
 DUNCAN—Case, G. B.
 DUNGENESS—Fitzgerald, Chas.
 EDGEcombe—Edgecombe Mill Co.
 Hill-Wilson Shingle Co.
 EDMONDS—Brady Shingle Co.
 *Edmonds Shingle Co. (Shingles)
 Sorensen, O. C. (Shingle Mill)
 *Yost, A. M. & Sons (Lumber & Shingles)
 EHRlich—Pingrey-Day Milling Co.
 ELK—Consolidated Lumber Co.
 ELMA—Gignor & Nichol Mills
 Servis & Hillis Mill Co.
 *Smith, M. R. Shingle Co. (Shingles)
 Wray, S. J.
 ENTERPRISE—Clarkson Mill Co.
 Perry, C. F.
 ENTIA—Gray, Geo. H. (Saw Mill)
 ENUMCLAW—Cooper, W. H.
 Westcott, F. C.
 EQUALITY—*Brotherhood of the Co-Operative Commonwealth
 ETNA—United Lumber & Export Co.
 EVERETT—*Blackman, C. A. & Co. (Shingles)
 Cavaleiro Mill Co.
 *Clark-Nickerson Lumber Co.
 *Eclipse Lumber Co. (Lumber & Shingles)
 Everett Lumber & Shingle Co.
 Hulbert Lumber Co. (Loggers)
 *Robinson Mfg. Co. (Shingles)
 SEIFFERT, H. O. & CO. (Shingle Mill)
 Weidner & Lansdowner
 EVERSON—Erb, J.
 North Star Lumber Co.
 Walker, Arsenau & McKee
 FAIRHAVEN—*Puget Sound Saw Mill & Shingle Co. (Red Cedar Shingles & Lumber, Capacity 6,000,000 Shingles)
 FALL CITY—*Fall City Lumber & Shingle Mill (Shingles)
 Falls Mill Co.
 FERNDAL—Clarkson Mill Co.
 Perry, C. F.

FLORENCE—Florence Shingle Mill
 *Hols, Jno. (Shingles)
 *Manley & Church (Shingles)
 FOREST—Hylark, A. (Saw Mill)
 GATE—*Gate City Lumber Co.
 GETCHELL—Eggert, E.
 GOLDBAR—*Goldbar Lumber Co. (Saw & Planing Mill)
 GOSHEN—Forest Grove Shingle Co.
 GRAND MOUND—Boyer, M. L.
 Chappell Shingle Co.
 GRANITE FALLS—Chappell Shingle Co. (Shingles)
 Granite Falls Lumber Co.
 Moor & Bohring
 Robe-Mentzell Lumber Co. (Saw Mill)
 *Swartz, Joseph (Shingles)
 GRAYS HARBOR—*Auderson & Middleton Co. (Pine & Spruce)
 HADLOCK—*Washington Mill Co.
 HAMILTON—Dry Creek Lumber Co.
 *Eagle Shingle Co. (Shingles)
 Hightower Lumber Co. (Saw Mill)
 *Lyman Lumber Co.
 HARDAN—Asplund, J. P.
 Bigelow & Co., N. A.
 HARRINGTON—*Harrington Milling Co.
 HARTFORD—*Hartford Shingle Co. (Shingles)
 Hartford Manufacturing Co.
 Rucker Bros.
 HOCKINSON—Rawson, A. (Saw Mill)
 HOMEVALLEY—Coulter Watson Lumber Co.
 HOQUAIM—*Lytle Logging & Mercantile Co. (Loggers)
 *Northwestern Lumber Co. (Spruce, Fir & Cedar Shingles)
 *Polson Bros. Logging Co. (Loggers)
 *Wood, E. K. Lumber Co. (Fir, Spruce & Box Mfrs.)
 INDEX—Heybrook, L. G. (Saw Mill)
 Index Lumber Co. (Saw Mill)
 ISSAQUA—Eastlake & Trandum (Saw Mill)
 Vaughn, W. E. (Saw & Planing Mill)
 KAMILCHE—*Port Blakesley Mill Co. (Saw Mill)
 KELSO—Coweeman Driving & Rafting Co. (Loggers)
 Coweeman Shingle Co. (Shingles)
 Metcalf & Wade (Shingles)
 Washington Red Cedar Mill Co.
 KNAPP—*Simpson Lumber Co.
 LACENTER—Brothers, James W.
 Oakdale Lumber Co.
 *Martin, Victor & E. J.
 *Wilson, Thos.
 LACEY—*Russell, Thos. & Son (Shingles)
 *Union Lumber Co.
 LACONNER—Laconner Lumber Co.
 LAKESIDE—Sullins, A. L.
 Wallace, J. O.
 LAWRENCE—*Hoff & Pickey (Shingles)
 Bridge Shingle Co.
 LEBAIN—Chandler Bros.
 LEWISVILLE—Backus & Blaker
 LICKING—*Eureka Lumber Co.
 Allen-Shurman Lumber Co.
 LITTLEROCK—Viora Shingle Co.
 LOOKOUT—Butters & McLeod
 LOON LAKE—Holland-Horr Mill Co.
 LYMAN—*Lyman Shingle & Lumber Co.
 Skagit Mill Co.
 MCCORMACK—*McCormack Lumber Co.
 McMURRAY—Bass Lumber & Shingle Co.
 MACHIAS—Bartlett, Harry L.
 Combes Lumber Co.
 *McCullough Bros. (Shingles)
 MALTRY—Buller & Callahan Co.
 Gray Lumber Co.
 *Paradise Lake Ry. & Mill Co. (Shingles)
 MAPLE VALLEY—Smith & Crissmau
 *Maple Valley Lumber Mfg. Co.
 MARRLE—Kane, Jas. L.
 MARIETTA—*Yeisley, D. W. (Shingles)
 MARKHAM—*Lewis O. L. (Shingles)
 MARYSVILLE—Barnes, Charles Mill Co. (Lumber & Shingles)
 Dexter Mill Co.
 Harrington Shingle Co.
 Lewis, E. L.
 *Marysville Mill Co.
 *Smith Mfg. Co. (Shingles)
 Stimson Mill Co.
 MICA—Sieverson Bros. (Saw Mill)
 MILAN—*Spokane Lumber Co.
 MISSION—Hendricks, J. & C. M.
 Schmitten, P. W. & Co.
 MONOHAN—*Allen & Nelson Mill Co. (Inc.) (Saw Mill, Lumber Mfrs., Piling, Loggers, Fir & Hemlock)
 MONROE—Dubuque, E. & Son (Saw Mill)
 Johnson, John (Saw Mill)
 Wagner & Wilson
 MONTBONE—Nelson & Neal
 MONTESANO—Clemens, Chas. H. (Loggers)
 Wynoochee Lumber Co.
 MOUNTAINVIEW—*Lopsas, J. & E. (Shingles)
 MOUNT HOPE—McMahon & Smith (Saw & Planing Mill)
 MOUNT VERNON—*Cedardale Lumber Co.
 Holmquist, A.
 NAPAVINE—Dittmar & Springsteen
 McCoy, George (Shingles & Saw Mill)
 Napavine Lumber Co.
 Pitcher, H. (Saw Mill)
 *Somerville Bros.

NASEL—Niemel, Victor
 NOOKSACK—*Gilles Mill & Mfg. Co.
 *Nooksack Shingle & Lumber Co.
 NORMAN—*Lauderdale, R. A. (Shingles)
 NORTH BEND—Tanner, L. B.
 OAKVILLE—Harris, George D. (Saw & Planing Mill)
 OCOSTA—Markham Shingle Co.
 OLYMPIA—*Keystone Lumber Co. (Shingles)
 *Olympia Lumber & Mercantile Co. (Shingles)
 *Richardson, Harvey G. (Shingles)
 ORILLA—*Orilla Lumber Co.
 McCall & Hilley (Logging)
 Stanton, R. H.
 OSO—Hydraulic Power Mill Co.
 PE ELL—*Yeomans, W. C.
 PITCHUCK—Parker-Bell Lumber Co.
 POMEROY—*Pomero Lumber Co. (Lumber & Planing Mill)
 PORT ANGELES—*Eacret Bros. (Shingles)
 *Ellion Mill & Lumber Co.
 Wood, P. J.
 PORT BLAKELEY—*Port Blakeley Mill Co.
 (Telegraph Arms, Lumber, etc.)
 *Wolworth & Neville Mfg. Co. (Lumber & Planing Mill)
 PORT CRESCENT—Puget Sound Mills & Timber Co.
 PORT GAMBLE—*Puget Lumber Co.
 *Puget Mill Co.
 PORT DISCOVERY—Lindstrom & Fisher
 PORTER—*Malone Shingle Co. (Shingles)
 Swanson & Johnson
 POULSBOROUGH—Pacific Lumber & Shingle Co.
 PRAIRIE—*Cain, D. J. & Co. (Shingles)
 *Hoyt, J. M. & Co. (Shingles)
 PRESTON—Preston Mill Co. (Red Cedar Fir & Spruce Lumber & Red Cedar Shingles)
 PUYALLUP—*Morse, F. W. Mfg. Co.
 RAINIER—Burnham, H. A.
 REDMOND—Laramie Bros.
 *Redmond Lumber Co. (Shingles)
 ROBE—*Canyon Mill Co. (Shingles)
 ROCKFORD—Hoig & Co.
 ROUSE—*De Can, Chandler & York (Shingles)
 SCOTIA—Graham, Chas.
 SEATTLE—*Atlas Lumber & Shingle Co. (Fir, Red Cedar Lumber & Shingles), Baily Bldg.
 *Bolcom, H. C. Lumber Co. (Red Cedar Shingles), Alaska Bldg.
 Brace & Hergert Mill Co. (Saw Mills)
 *Bryant Lumber & Shingle Mill Co. (Lumber & Shingles)
 *Callahan, R. C. (Shingles)
 *Carstens & Carles (Inc.) (Lumber & Shingles)
 *Commercial Cedar Co. (Lumber & Shingles)
 Gamwell & Wheeler (Hardwood Lumber, Poles, Piling, etc.)
 Kerry Mill Co. (Saw Mills)
 *Moran Bros. (Spruce, Cedar, etc.)
 *Newell Mill Co. (Bradford & 7th av. S. (Saw & Planing Mills & Shingles)
 *Nichols, C. H. Lumber Co. (White Pine)
 *Pacific Fir Co. (Timber, Piling, Ties, Red Cedar, Shingles, etc.)
 *Rainier Beach Lumber & Shingle Co.
 *Roy & Roy (Fir, Spruce & Red Cedar Lumber & Shingles)
 *Seattle Cedar Lumber Co. (Siding, Moulding, Columns, Newells & Shingles, etc.)
 *Seattle Lumber Co. (Fir Lumber, Lath & Red Cedar Shingles)
 *Stetson & Post Mill Co. (Saw Mills)
 *Stimson Mill Co. (Lumber, Shingles & Saw Mills)
 *Wilson, Robert S. (Lumber & Red Cedar Shingles), N. N. Block
 SEDRO WOOLLEY—*Clark & Lennon (Shingles)
 *Frenzel-Heininger Lumber Co. (Saw & Shingle Mill)
 *Green Shingle Co. (Shingles & Loggers)
 *Shrewsbury, H. H.
 *Sterling Mill Co. (Shingles)
 SEGUIN—Congar Shingle Co.
 *Seguin Shingle & Lumber Co.
 SHELTON—*Hunter-Eaton Co.
 *Simpson Logging Co.
 *Western Washington Logging Co.
 SHERLOCK—*Card, A. L. (Shingles)
 SILVER BEACH—*Jerus, N. (Shingles)
 Matson & Anderson
 *Silver Beach Shingle Co.
 SILVER LAKE—*Barnes, F. G. (Shingles)
 SKYE—Skamania Logging Co.
 SKYKOMISH—Skykomish Lumber Co.
 SNOHOMISH—Advance Shingle Co.
 Guhr, Henry O.
 *Mauchlin Mill Co. (Shingles)
 Morgan Bros. (Saw Mill)
 Snohomish Logging Co.
 Stinson & McMillan (Loggers)
 Stocker Mill Co.
 Williams, T. H. Co.
 *Williams T. H. & Co. (Shingles)
 *Wood & Iverson (Shingles)
 SNOQUALMIE—Gove, G. W.
 *King Lumber Co. (Shingles)
 SOUTH BEND—Butz & Son, F. J.
 *Columbia Box & Lumber Co.
 *Kleeb Lumber Co.
 *South Bend Mills & Timber Co.

*Willapa Shingle Co. (Shingles)
 SOUTH PRAIRIE—*Arline Mill Co.
 Lucas Lumber Co.
 SOUTH SEATTLE—Tioga Timber Co.
 SPOKANE—*Buckeye Lumber Co.
 *Central Lumber Co. (Shingles)
 *Holland-Horr Mill Co.
 Musser, Wm. Lbr. & Mfg. Co.
 *Owen Lumber Co.
 Petersen, H. J. Lumber Co.
 Robbins, H. G.
 *Spokane Lumber Co.
 *Stack-Gibbs Lumber Co.
 *Washington Pine Lumber Co.
 *Woodbury, F. R. Lumber Co.
 *Yellow Pine Lumber Co.
 STANWOOD—Becker Shingle Co.
 Benedict, F. H.
 Kent-Whitacre
 STARTUP—Gold Bar Mill Co. (Saw Mill)
 *Wallace Lumber & Mfg. Co.
 STELLA—*Snider & Sons (Shingles)
 STEVENSON—Skamania Lumber Co.
 SULTAN—*Mauret Shingle Co. (Shingles)
 SUMMIT—*Deming, F. S. (Shingles)
 *Hamilton & Lee (Shingles)
 McDonald, R. R.
 *Smith, I. J. (Shingles)
 SUMAS—*Gillis Mill & Mfg. Co. (Lumber)
 *Hastings Mill Co. (Shingles)
 TACOMA—*Adna Mill Co.
 *Brehm Lumber Co.
 *Danaher, C. D.
 *Defiance Lumber Co.
 *Dempsey Lumber Co.
 *Derickson & Co. (Saw & Shingle Mill)
 *Doud Bros. Lumber Co.
 *Far West Lumber Co.
 *Foster Lumber Co.
 *Gibbs, S. A. Co. (Lumber & Shingles)
 Healey Lumber Co.
 *Hewitt-Lea Lumber Co.
 McNeely, E. J. & Co. (Lumber & Shingles)
 *Metcalf & Wade (Cedar Shingles)
 *North Coast Timber Co.
 *Puget Sound Lumber Co.
 *Reynolds & Davis Lumber Co.
 Robinson-McGreer Lumber Co.
 *Saw, A. C. Lumber Co.
 *St. Paul & Tacoma Lumber Co. (Fir, Cedar, Lumber & Shingles)
 *Sunset Lumber Co. (Fir, Spruce, Red Cedar Flooring, Finish, Shingles, Masts, Spars, Ship Decking, etc.)
 *Tacoma Mill Co. (Douglass Fir, Oregon Pine, Plank Timbers, Ship Plank, Flooring, Rustic Ceiling, Lath, Pickets, Staves, Spars, Piling, Red Cedar Shingles, etc.)
 *Western Mill Co.
 *Wheeler, Osgood & Co. (Cal. Redwood)
 TENAWAY—*Tenaway Lumber Co.
 Tubbs & Davidson (Saw Mill)
 TENINO—*Douglas Lumber Co.
 *Tenino Lumber Co.
 THORNWOOD—Cain, D. J. & Co. (Saw & Planing Mill)
 TOLEDO—Badger Lumber Co.
 TOLT—Tolt Mill Co.
 TROUTLAKE—*Kedenburg-Sellinger Co.
 UTSALADDY—*Puget Mill Co.
 VALLEY—Dean Lumber & Fnel
 *Kulzer, Jno. G.
 VAN COUVER—*Lucia Mill Co.
 VAN ZANDT—Heaton, R. H.
 *Whatcom County Shingle Co.
 WALLA WALLA—*Whitcomb & Crawford
 WENATCHEE—*Wenatchee Lumber Co.
 WEST BRANCH—Washington Mill Co. (Saw Mill)
 WICKERSHAM—*Reichert, D. J. (Shingles)
 *Wickersham Shingle Co.
 WILSON CREEK—Gentry & Goldsmith
 WINLOCK—Veness, J. A. (Saw Mill)
 WOODENVILLE—*Grace Mill Co. (Shingles)

WEST VIRGINIA.

ASBURY—*Alderson, S. I. (Lumber)
 BECKLEY—Calloway, C. M. (Saw Mill)
 Cook, Harvey
 BELLEVILLE—*Ravenswood Lumber Co.
 BELINGTON—*Serpell Bros.
 BERKLEY SPRINGS—Crossfield, Wm. (Saw Mill)
 BLUEFIELD—*Georgia Lumber Co. (Saw & Planing Mill)
 BUCKHANNON—*Alton Lumber Co. (Hardwood)
 Henry, J. L. Lumber Co.
 Isherwood & Cody
 *Stockert, G. F. & Son
 *Stockert, H. S. & Bro.
 Veilmier, W. F. Lumber Co.
 CAMDEN-ON-GAULEY—*Gauley Co. (Hardwood)
 CENTRAL CITY—Calloway, C. M. Lumber Co.
 CENTRALIA—*Panhamus, J. & Son
 CHARLESTON—Boone Timber Co.
 *Branch, W. W. Vener & Lumber Co. (Lumber for Built-Up Work)
 *Charleston Lumber Co. (Saw & Planing

*Collins Lumber Co. Mill
 *Courtney, D. G. (White Oak, R. R. Ties, Whiskey & Provision Cooperage)
 *Dana Lumber Co.
 *Donaldson Lumber Co.
 *Flynn Lumber Co.
 *Interstate Lumber Co. (Hardwood)
 *Kanawha Hardwood Co. (Hardwood)
 *Yellow Pine Lumber Co.
 CROW—Mankin & Phillips (Saw Mill)
 DAVIS—*Blackwater Lumber Co. (Spruce, Hemlock Lumber & Box Shooks)
 ELKINS—Cheat River Lumber Co.
 Elkins Lumber Co.
 *Gross, Cecil
 *McDonald Lumber Co.
 Moore, J. B. & Sons Lumber Co.
 Wildell Lumber Co.
 GLEN JEAN—Hogg Lumber Co.
 GRAFTON—Kennedy, R. W. Co. (Saw Mill)
 HAMBLETON—*Elk Lick Lumber Co.
 *Otter Creek Boom & Lumber Co. (Hemlock)
 LOCK SEVEN—*Mohler Lumber Co. (Poplar, Oak, Walnut & Ash)
 NICOLETTE—*Nicolette Lumber Co.
 PANTHER—*Ritter, W. M. Lumber Co. (Hardwood)
 PARKESBURG—Citizens' Lumber Co. wood
 *Everglade Cypress Lumber Co.
 *Jackson, J. M.
 Parkersburg Mill Co.
 Smith, R. M. & Co.
 United States Lumber Co.
 Wilson, H. S. & Son
 Withers & Van Devender
 PICKENS—*Holly Lumber Co.
 RALEIGH—*Raleigh Lumber Co. (Cut Timber)
 RICHWOOD—Cherry River Boom & Lumber Co.
 ST. ALBANS—*Bowman Lumber Co.
 SATTES—*Knight Lumber Co. (Yellow Pine)
 SUTTON—Bright, Amos
 *Pardee & Curtin Lumber Co.
 Waggy, Henry
 TOPINS GROVE—King, Wm. (Saw Mill)
 UPPERTRACT—Dahmer, C. E. & Bro. (Saw Mill)
 WELCH—*Ritter, W. M. Lumber Co.
 *Sudduth, E. H. Lumber Co.
 *Sudduth & Bailey (Saw Mill)
 *Wilson Creek Lumber Co.
 WESTON—*Hinkle, S. & Co.
 Weston Lumber Co.
 WHITE SULPHUR SPRINGS—*Huddleston, A. E. (White Pine, Saw & Planing Mill)
 WILLIAMSON—Harris, W. A. (Saw & Planing Mill)

WISCONSIN.

ANIWA—Goldrick, G. H. (Cedar)
 APPLETON—Appleton Lumber & Fuel Co.
 *Fountain Lumber Co. (Saw & Shingle Mill)
 *Jones, G. W. Lumber Co. (Hardwood)
 *Wisconsin Lumber Co.
 ARBOR VITAE—*Ross Lumber Co. (Long Joist & Heavy Timber)
 ASHLAND—*Ashland Lumber Co. (White & Norway Pine)
 *Gilbert, W. H. (Norway Pine)
 *Lake Superior Lumber & Box Co.
 *Schroeder, John Lumber Co.
 *Scott-Taylor Co.
 ATHENS—*Athens Mfg. Co.
 Braun, M. & Sons (Lumber & Staves)
 *Rietbrock Land & Lumber Co.
 BAILEYS HARBOR—*Pruter, Louis (Shingles)
 BARRON—Interstate Lumber Co.
 BAYFIELD—Bayfield Mill Co. (Saw Mill)
 Boutin, Frank, Sr. (Logging, etc.)
 *Pike, R. D. Lumber Co. (Saw & Planing Mills)
 *Wachsmith Lumber Co.
 BELOIT—*Beloit Lumber Co.
 BERLIN—Allen, C. W., Lumber Co.
 *Wilbur Lumber Co.
 BIRNWOOD—Andrews & Roepke Lumber Co. (Saw Mill)
 BLANCHARDVILLE—Blanchardville Lbr. Co.
 BONDUEL—*Meyer, T. (Saw & Shingle Mill)
 BOSCOBEL—*Rnka Bros. Mfg. Co. (Hardwood)
 BRILLION—Brillion Lumber Co.
 BRUCE—*Beldenville Lumber Co. (Hardwood & Veneer)
 *Cable—Rogan Bros. (Saw Mill)
 CAZENOVIA—Behn, C. E. (Saw Mill)
 CEDERBURG—*Hilgen Mfg. Co. (Builders' Mill Work)
 CHIPPEWA FALLS—Chippewa Logging Co.
 Chippewa Lumber & Boom Co. (White Pine)
 *Mississippi River Logging Co.
 Stanley, F. G. & Co. (Saw Mill)
 Smith & Hanson (Loggers)
 COLEMAN—*Bolles, E. E. & Co.
 CRANDON—Carpenter Bros. (Saw Mill)
 *Kieth & Hiles Lumber Co.
 *Hiles Lumber Co.
 CUMBERLAND—*Beaver Dam Lumber Co.
 DALE—*Central Lumber Co.
 DANCY—Altenberg & Stoddard (Saw Mill)
 DRUMMOND—*Rust-Owen Lumber Co. (Cork, White Pine)
 DUNBAR—*Girard Lumber Co. (Lumber, Lath, Shingles, Piling, Posts, Ties, etc.)

EAU CLAIRE—Davis & Starr Lumber Co.
 *Dells Lumber & Shingle Co.
 *Half-Moon Lake Shingle & Fuel Co.
 *Northwestern Lumber Co. (White Pine & Shaw, Daniel Lumber Co. Basswood)
 EDGERTON—Sheddles Lumber Co.
 ELKHORN—*Elkhorn Lumber Co.
 ELLSWORTH—Hines, Frank (Saw Mill)
 McLeod, John & Sons (Saw Mill)
 ELMHURST—Nelson, E. F. (Saw Mill)
 *Wunderlach, George H.
 FAIRCHILD—*Foster, N. C. Lumber Co.
 FENWOOD—*Fenwood Lumber Co.
 FOND DU LAC—*Moore & Galloway Lumber Co.
 FORT ATKINSON—Wilcox Lumber Co.
 *Zenger-Hoffman Lumber Co.
 FREMONT—Steiger, J. J. (Saw Mill)
 GALESVILLE—*Farland, I. S.
 GLEN HAVEN—*Seippel Bros.
 GLENWOOD—Syme & Vander Hiden (Pine, Hardwood Lumber, Wagon & Coopersage Stock)
 GLIDDEN—*Rogers & Emmons Lumber Co.
 GRAND RAPIDS—*Arpin Hardwood Lbr. Co.
 *Arpin, John Lumber Co.
 *Grand Rapids Lumber Co.
 *Kellogg Bros. Lumber Co.
 *Pigson River Lumber Co.
 GREEN BAY—*Diamond Lumber Co.
 *Metropolitan Lumber Co.
 *Murphy Lumber Co. (Lumber, Box Shooks & Saw Mill)
 Valentine-Clark Co. (Cedar Posts, etc.)
 GRESHAM—Morgan, O. E. (Saw Mill)
 GURNEY—*Somers-Timm Lumber Co. (Hardwood & Hemlock)
 HALWAY—Liberty, H. A. (Saw Mill)
 HARTFORD—*Dennison, Liver & Coerper
 HAYWARD—*North Wisconsin Lumber & Mfg. Co. (White Pine)
 HAWKINS—*Ellinson Lumber Co.
 HAWTHORNE—Bonuell, W. H. (Saw Mill)
 HAZELHURST—Yawkey, Bissell Lumber Co. (Box Shooks, Lumber & Egg Cases, Crates, etc.)
 HORTONVILLE—Diestler Co. (Saw & Planing Mill)
 HUDSON—*Central Lumber Co.
 INDEPENDENCE—*Sprecher & Schafer
 INGRAM—*Ingram Lumber Co.
 IOLA—Wipp, J. & H. C. (Saw Mill)
 JANESVILLE—*Pendleton & Gilkey (Everything in White Cedar)
 *Thoroughgood & Co. (Cigar Box Lumber)
 KELLEY—Mansur, John (Saw Mill)
 KEMPSTER—*Borth, Frank
 *Meyer & Borth
 KENOSHA—*Montgomery Lumber Co.
 KEWAUNEE—*Duvall, Jos. & Co.
 KIEL—*Laun, J. B.
 KIMBALL—*Kimball & Clark (Hemlock & Hardwood Lumber, White Cedar Shingles, Basswood & hemlock lath)
 LAC DU FLAMBEAU—*Flambeau Lumber Co.
 LA CROSSE—Coleman, C. L. Lumber Co. (Lumber, Shingles & Saw Mills)
 *East Coast Lumber Co. (Lumber & Saw Mills), Also Watertown, Fla.
 *Holway, N. B. (Est. of) (Lumber & Saw Mill)
 *Kuhn, R. C., Sash & Door Co. (Sash, Doors & Millwork)
 *Segelke & Kohlhaus Mfg. Co. (Sash, Doors & Mill Work)
 *Trow, A. S. & Co. (Lumber & Saw Mill)
 *Vincent, Jas. & Son
 *Wind River Lumber Co.
 LADYSMITH—Corbett, Robt. (Saw Mill)
 LAFARGE—*Lafarge Lumber Co.
 LAKE NEBAGAMON—*Nebagamon Lumber Co. (Lumber & Saw Mill)
 LOST CREEK—Harshman, F. L. (Saw Mill)
 LOYAL—Christman, B. (Saw Mill)
 Graves, A. A. (Saw Mill)
 McMILLAN—*McMillan, B. F. & Bro. (Hemlock, Pine & Hardwood)
 MADISON—*Brittingham & Hixon Lumber Co.
 MARINETTE—Connor, R. Co. (Pine, Hardwood & Hemlock Lumber, Cedar & Pine Shingles, Cedar Poles & Posts, Basswood Siding, Ceiling, etc.; End Matched Hardwood Flooring, etc.)
 *Davis & Stitt (Lumber & Cedar Products)
 *Hafer & Kalsched (Saw Mill & Lumber)
 *Hamilton & Merryman Co. (Lumber & White Pine & White Cedar, Shingles, Lath, etc.)
 *Lieber & Noal Mfg. Co. (Shingles)
 Ludington, N. Co. (White & Norway Pine, Lath & Shingles & Saw Mill)
 *Marshfield Land & Lumber Co. (Mfrs.)
 Marshfield Staves Timber Co.
 *M. & M. Box Co. (Box Shooks, Lumber & Lath)
 *Menominee River Boom Co.
 *Merryman, R. W. & Co. (Lumber, Lath & Shingles)
 Northern Hardwood Lumber Co.
 *Roddis Lumber & Veneer Co. (Veneers, Veneered Panel Stock, Cheese Box Stock, Drawer Bottoms, Table & Desk Tops, Bel-lows Stock, Sleigh Panels, etc.)

Sawyer-Goodman Co. (Pine, Hemlock, Hardwood & Lath Shingles)
 Upham Mfg. Co. (Saw Mills)
 *Vollmar & Below (Wholesale Dealers)
 *Wright Bros. (Everything in White Shingles)
 MASON—*White River Lumber Co.
 MAYKING—Wunderlich, Chris. (Saw Mill)
 MELLEN—*Foster, Latimer Lumber Co. (Saw & Planing Mill)
 MENOMINIE—Kraus Bros. (Saw Mill)
 Seipel & Will (Saw Mill)
 *Wilson-Weber Lumber Co.
 MERRILL—*Auson-Hixon Sash & Door Co. (Mouldings, Interior Finish)
 *Gilkey & Anson Co. (Lumber, Lath, Shingles & Box Shooks)
 *Heinemau Lumber Co.
 *Langley & Alderson (Loggers)
 *Merrill Lumber Co.
 *Smith Hardwood Lumber Co.
 *Wright, H. W. Lumber Co.
 MERRILLAN—*Trow, A. C. (Lumber & Saw Mill)
 MILWAUKEE—*Bergland, G. A., Matthews bldg
 Devere & Schloegel Lumber Co., 7th av c Park
 Forster Lumber Co., 428 Grand Av Park
 Hilty, M. Lumber Co. 1119 St. Paul av
 Johnson Lumber Co. (Soft Cork, Pine for patterns), 204 Grand av
 *Land, Log & Lumber Co., 456 Jefferson
 Milwaukee Lumber Co., 1st av c East
 *Noble, Geo. P. (Pine & Hardwood), Wells bldg
 *Page & Landeck Lumber Co. (Cabinet Wood), 121 Wisconsin
 *Rietbrock Land & Lbr. Co., 107 Wisconsin
 *Schroeder, John Lumber Co., ft of Walnut
 Simpson, E. B. & Co., 151 6th
 *South Arm Lumber Co., 204 Grand av
 *Steinman Lumber Co. (Lumber, Lath & Shingles), Park & 81st av
 *Tegge Lumber Co. (Hardwood), 684 Park
 *Wilbur Lumber Co., Pabst bldg
 MISHCOTT—*Hoffman Milling Co. (Saw Mill)
 Rhode, Aug. (Saw Mill)
 Schimmel, N. & Co. (Saw Mill)
 MORRIS—Buckstaff-Sprague Lumber Co. (Pine)
 MOSINEE—*Dessert, Jos. Lumber Co. (Pine, Hardwood, Lath & Shingles)
 Mosinee Log, Land & Lumber Co. (Saw Mill, Loggers, etc.)
 NEILLSVILLE—Trogner, G. W. (Saw Mill)
 NEW GLARUS—*New Glarus Lumber Co.
 NEW LONDON—*Hatten Lumber Co. (Hardwood)
 NEW RICHMOND—*Willow River Lumber Co.
 *Bonner Ferry Lumber Co.
 NILES—Johnson, J. M. (Saw Mill)
 NORWALK—Walz, Geo. A. (Saw Mill)
 OCONTO—*Holt Lumber Co. (Saw Mill)
 *Oconto Lumber Co. (Saw Mill)
 ODANAH—*Stearns, J. S. Lumber Co. (White Pine)
 ONTARIO—*Sandon, E. W.
 OSHKOSH—*Fountain-Campbell Lumber Co.
 *Hollister, Amos & Co.
 *Latham Cypress Co.
 Morgan Co. (White Pine, Idaho Pine, Basswood, Ash, Elm, Maple, Oak, Hemlock, etc.; Shingles, White Cedar, Red Cedar & Pine)
 *Morgan Lumber & Cedar Co.
 *Paine Lumber Co. (Mill Work)
 *Radford Bros. & Co. (Saw Mill, etc.)
 *Wagstaff, W. J. (Flooring, Finish, Cedar Shingles, etc.)
 *Wall-Spalding Lumber Co.
 Williamson & Libby Lbr. Co. (Saw Mill)
 OWEN—*Owen, John S. Lumber Co. (Pine & Hardwood)
 PELLA—*Grosskopf, Fred. A. (Saw Mill)
 PESHTIGO—*Constine, C. & Son (Lumber & Cedar)
 *Peshtigo Lumber Co. (Saw Mill)
 PHILIPS—*Davis, John R. Lumber Co. (Pine & Hemlock, Hardwood, etc.)
 PLATTEVILLE—*Eastman, M. Lumber Co.
 POLAR—Polar Mfg. Co. (Saw Mill)
 Tyrell, G. & Son (Saw Mill)
 POUND—Gillen & Warning (Saw Mill)
 RED CLIFF—*Red Cliff Lumber Co.
 RHINELANDER—Brown Bros. Lumber Co.
 *Johnson, F. H., Lumber Co. (Pine, Lumber, Lath & Shingles)
 *Mason-Donaldson Lumber Co.
 *Queal, J. H. & Co.
 *Robbins Lumber Co. (Pine, Lumber, Lath & Shingles)
 Stevens Lumber Co. (Saw Mill)
 RIB FALLS—*Baeseman, G. H. Mfg. Co.
 BIG LAKE—Mathe, J. & Co. (Saw Mill)
 *Waters & Zerbel (Saw Mill)
 Rib Lake Lumber Co.
 RICE LAKE—*Rice Lake Lumber Co. (White Pine)
 RICHLAND CENTER—*Krouskop, A. H. (Hardwood Lumber, Basswood, etc.)
 ROSENCRANS—Rabenhorst, F. S. (Saw Mill)
 SAWYER—*Shaw, A. & Co. (Shingle Mill)
 SCANDINAVIA—Wroldstad, John O. (Saw Mill)
 SCHLEISINGERVILLE—Kletti, John (Saw Mill)

SCHOFIELD—*Brooks & Ross Lumber Co. (Pine, Hemlock & Lath, Shingles, Pickets, etc.)
 SEYMOUR—Miller & Piehl (Saw Mill)
 SHEBOYGAN—Freyburg, C. B. (Lumber Co. Shingle Mills, etc.)
 *Wisconsin Timber & Land Co.
 SOLDIERS' GROVE—Peterson, A. (Saw & Planing Mill)
 STAR LAKE—*Salsich & Wilson
 STEVENS POINT—*Clifford & Fox Lumber Co.
 *Stevens Point Box Co. (Box Shooks)
 *Weeks, John Lumber Co.
 STILES—*Eldred, Anson Co.
 STRATFORD—*Conner, R. Lumber Co.
 STURGEON BAY—*Pankratz Lumber Co.
 *Washburn, N. S. & Co.
 SUPERIOR—*Edwards, F. W.
 *Hines, Edw. Lumber Co. (of Chicago)
 *Paine, Mark, Lumber Co.
 *Rogers & Ruger Lumber Co.
 SURING—Wagner, M. (Saw Mill)
 SYMCO—Seaver Bros. (Saw Mill)
 TAUS—Boehm, Joseph (Lumber & Shingles)
 TAVERA—Ellsworth, M. D. & Co. (Saw Mill)
 THORP—Boardman, E. A. & Sons (Saw Mill)
 Bobb, Peter E. (Saw Mill)
 *Nye, Lusk & Hudson Co. (Pine & Hardwood)
 TIGERTON—Badger Lumber Co. (Saw Mill)
 *Tigerton Lumber Co.
 TOMAH—Goodyear Lumber Co.
 TOMAHAWK—*Bradley Co. (Lumber, Lath & Shingles)
 Bradley-Watkins Co.
 TONY—Hein, John Co. (Saw Mill)
 UNITY—Fritz & Fry (Saw Mill)
 WABENO—*Wabeno Lumber & Mfg. Co.
 WAGNER—Brown & Moore Co. (Shingles)
 WASHBURN—*Akeley & Sprague
 Hines, Edw. Lumber Co.
 *Thompson Lumber Co.
 WAUSAU—Barker & Stewart Lumber Co. (Saw & Planing Mill)
 *Curtis & Yale Co. (Hardwood, Basswood, Pine, etc.)
 *Fenwood Lumber Co.
 *Gensman, Jacob
 *Goodwillie Bros. (Box Shooks & Lumber)
 *Mortenson, Jacob Lumber Co. (White & Norway)
 *Mortenson & Stoue
 Porter, J. A.
 *Stewart, Alex. Lumber Co. (Lumber, Lath & Shingles)
 *Thompson & Co.
 *Wausau Box & Lumber Co. (Lumber & Box Shooks)
 *Wisconsin Box Co. (Pine & Basswood Lbr. & Box Shooks)
 *Wisconsin & Arkansas Lumber Co.
 WAUSAUKEE—*Bird & Wells Lumber Co.
 Kuchenbecker Bros. (Saw Mill)
 WAYSIDE—Haese, Aug. (Saw Mill)
 WESTBORO—*Westboro Lumber Co.
 WINNECONNE—*Winneconne Lumber Co.

WYOMING.

EVANSTON—*Atkinson, J. L. (Saw Mill & Lumber)

SUNDANCE—Sluss, Ira B. (Saw Mill)

Lumber Mfrs. & Wholesalers (Gum)

Askins & Dircks Lumber Co., Union City, Tenn.
 Bacon-Nolan Hardware Co., Memphis, Tenn.
 Bennett & Witte, Cincinnati, O.
 Beyer, Knox & Co., Buffalo, N. Y.
 Boreherding Lumber Co., Buffalo, N. Y.
 Buffalo Hardwood Lumber Co., Buffalo, N. Y.
 Cincinnati Cigar Box Lumber Co. (Gum Lumber Veneered), Cincinnati, O.
 Cypress Lumber Co., Boston, Mass.
 Darling, J. W. Lumber Co., Cincinnati, O.
 Dillman Planing Mill Co., Kenett, Mo.
 Dickson, J. W. Lumber Co., Memphis, Tenn.
 Druke Hardwood Lumber Co., Main c Clinton, St. Louis, Mo.
 Elias, G. & Bro., Buffalo, N. Y.
 Empire Lumber Co., Buffalo, N. Y.
 Cleveland Lumber & Mfg. Co., Cleveland, Tenn.
 Farrin-Korn Lumber Co., Cincinnati, O.
 Gulf Land & Lumber Co., Kansas City, Mo.
 Himilberger-Harrison L. Co., Morehouse, Mo.
 Hurd, O. P., Jr., Cairo, Ill.
 Luehrmann, C. F. Hardwood Lumber Co., St. Louis, Mo.
 McLean, Hugh Lumber Co., Buffalo, N. Y.
 Miller, Anthony, Buffalo, N. Y.
 Mock, W. S. (Lumber & Mfrs. Barrels, Black Gum), Hallwood, Va.
 Mosberger-O'Reilly Lumber Co., 653 Morin av, St. Louis, Mo.
 National Cooperage & Woodenware Co., Peoria, Ill., & 16 Exchange pl, New York
 Ocmulgee River Lumber Co., Lumber City, Ga.
 Paepcke-Leicht Lumber Co., Chicago, Ill.
 Perkins & Pettibone, Louisville, Ky.
 Radlue, L. W. & Co., Cincinnati, O.
 Roper, John L. Lumber Co., Norfolk, Va.

THE E. A. KINSEY COMPANY

MACHINERY AND SUPPLIES

FOR RAILWAYS, MILLS, MACHINISTS,
MINES, CONTRACTORS, ETC.

331-335 W. Fourth St., CINCINNATI, O.

Sanders, J. S. & J. B. (Green Gum), Islandton, S. C.
Scratcherd & Son, Buffalo, N. Y.
Smith, W. E. Lumber Co., Memphis, Tenn.
Sondheimer, E. Co., Chicago, Ill.
Standard Hardwood Lumber Co., Buffalo, N. Y.
Stewart, I. N. & Bro., Buffalo, N. Y.
Stone, T. B. Lumber Co., Cincinnati, O.
Strifer, C. E. Lumber Co., St. Louis, Mo.
Sutherland-Innes Co., 29 B'way, New York
Taylor & Crate, Buffalo, N. Y.
Thomas & Proetz Lumber Co., St. Louis, Mo.
Thompson, James & Co., Memphis, Tenn.
Three States Lumber Co., Tennessee Trust bldg, Memphis, Tenn.

Ward Lumber Co., Whiting, Mo.
Werner, Louis Saw Mill Co., St. Louis, Mo.
Wiborg & Hanna Co., Cleveland, O.
Yeager, Orson E., Buffalo, N. Y.

***Lumber (Southern Hardwood)**

WOOD-MOSAIC FLOORING & LUMBER CO., Main Office & Factory, Rochester, N. Y. (See adv. index & branch offices, end of book)

Luxeberry Wood Finish

BERRY BROS. (Ltd.) Main Office & Factory, Detroit, Mich. (See adv. index, end of book)

Macadam Roads

(See Contractors, General)

***Machine Grinding**

NORTON GRINDING CO., Worcester, Mass.

Machine Parts (Finished)

Detroit Screw Works, Detroit, Mich.
Franklin, H. H. Mfg. Co. (Standard & Special, "Franklin" Metal Finished Castings), Syracuse, N. Y.
Globe Machine & Stamping Co., Cleveland, O.

***Machine Rack**

STANDARD GAUGE STEEL CO. (Finished Cut Steel), Beaver Falls, Pa. (See adv. index, end of book)

Machine Screw Work

(See Screw Machine Work)

Machine Shop Furniture

New Britain Machine Co., New Britain, Conn.
NORTON GRINDING CO. (& Ground to Order, Shafts, Rolls, Spindles, Piston Rods, Crankshafts, etc.), Worcester, Mass.
Howland-Sherman Mfg. Co. (Standard & Special), Calvert bldg, Baltimore, Md.
Legler, Grimes & Ellerman, (Finished Cast-

Machine Tools

(For Manufacturers of Machine Tools see the specific article; for Dealers, see Machinists' Tools & Supplies; also Machinery Dealers, New & Second Hand.)

KINSEY, E. A. CO., 335 W 4th, Cincinnati, O. (See adv. above)
OWEN MACHINE TOOL CO., Springfield, O. (See adv. below)

Machine Work (Automatic)

Cassady-Fairbank Mfg. Co., 6106 La Salle, Chicago, Ill.

MACHINERY.

(For Dealers in Machinery see Machinery Dealers, New & Second Hand; also Machinists' Tools & Supplies)

Note.—For various kinds of Machinery Manufacturers see sub-classifications of this head following in their regular alphabetical order. See also Drills of various kinds; Lathes of various kinds; also Planers, various kinds; also Sugar Machinery; also Textile Machinery, etc.; also Air Compressors; also Blowers; also Conveyors; also Cranes; also Dynamos & Motors; also Elevators; also Engines; also Locomotives; also Pumps; also Road Rollers of various kinds; also Rock & Ore Crushers. For page numbers, see Index of Contents.

(SEE ALSO MACHINISTS & FOUNDERS)

Abrading Machines

Clark & Mills Electric Co. (for Testing Road Making Materials), 543 Boylston, Boston, Mass.
International Instrument Co., 23 Church, Cambridge, Mass.

Acid Cleaning Machines

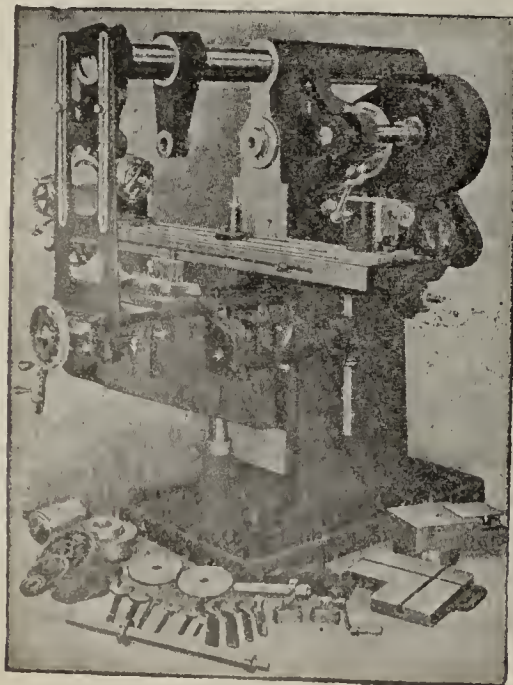
Torrington Mfg. Co., Torrington, Conn.

Aciding Machines

BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)

Adding Machines

(See also Calculating Machines; also Typewriters, Adding & Billing)
Arithmograph Co., 287 B'way, New York
Automatic Adding Machine Co. ("Gem" & "Automatic"), 332 B'way, New York
Burroughs Adding Machine Co., Detroit, Mich.
Bundy, W. L., Binghamton, N. Y.
Comptograph Co., 146 Blackhawk, Chicago, Ill., & 198 B'way, New York



"OWEN"

Plain, Universal & Duplex Milling Machines

Accuracy, Rigidity and Durability
are embodied in Owen Millers . . .

32 changes of feed without shifting
belt or gear, while the machine is
in motion without the slightest
injury to the working parts

ASK FOR SPECIAL CIRCULAR

The Owen Machine Tool Co.

SPRINGFIELD, OHIO

U. S. A.

Elliott-Fisher Typewriting Co., 329 B'way, New York
 Ellis Adding Typewriter Co., 1 Madison av., New York
 Eaton, Hough & Co., 237 B'way, New York
 Felt & Tarrant Mfg. Co. (Comptometers), 52 Illinois, Chicago, Ill.
 Hamburger, Felix ("Brumsviga" Computing Machines), 78 5th av., New York City
 Locke, C. E. Mfg. Co., Kensett, Ia.
 †Mechanical Accountant Co., 17 Warren, Providence, R. I.
 Morschhauser, W. A. ("Millionalre"), 1 Madison av., New York
 Morse & Walsh Co. (Calcometer), Trenton, N. J.
 Muller, Oscar & Co. ("Saxonia"), 32 B'way, New York
 National Addograph Co., 72 B'way, New York
 Pike Adding Machine Co., Orange, N. Y.
 Reuter, Carl H. ("Brunsviga" & "Burkhard"), Land Title bldg, Phila., Pa.
 Standard Adding Machine Co., Spring av. & Forest Park boul., St. Louis, Mo.
 †Universal Accountant Machine Co., 3708 Leclade av., St. Louis, Mo., & 200 B'way, New York
 Universal Adding Machine Co. (Hand or Electric), St. Louis, Mo.
 Weeks, A. A. Co. ("Victor"), 11 Gold, New York
 Wales Adding Machine Co., 237 B'way, New York

Addressing & Mailing Machines

Addressograph Co., 232 W Van Buren, Chicago, Ill.
 Agnew Auto-Mailing Machine Co. (Mailing Machines Only), 156 Pearl, Boston, Mass.
 Challenge Machinery Co., Grand Haven, Mich.
 Elliott Co., 100 Purchase, Boston, Mass.
 Gibbs-Brower Co. (Elliott), 150 Nassau, N. Y.
 Mercantile Addressing Machine Works, 1 Madison av., New York
 Pollard-Alling Mfg. Co., 312 E 23d, New York
 Wallace & Co., 29 Murray, New York

Angle Straightening Machines

BRODESSER ELEVATOR MFG. CO., Milwaukee, Wis. (See adv. index, end of book)
 Kane & Roach, Syracuse, N. Y.
 Philadelphia Roll & Machine Co., S 23d & Wash'n av., Phila., Pa.
 United Engineering & Foundry Co. (For Rolling Mills), Farmers' Bank Bldg., Pittsburg, Pa.

Annealing Machines

AMERICAN GAS FURNACE CO. (Gas), 23 John, New York, & Elizabeth, N. J. (See adv. index, end of book)
CHICAGO PNEUMATIC TOOL CO., Fisher bldg, Chicago, Ill. (See adv. index & branch offices, end of book)

Anvil, Vise & Drilling Machines (Combined)

Bonney Vise & Tool Works ("Gipse"), 3015 Chestnut, Phila., Pa.

Apple Grating Machines

Klotz Machine Co. ("Hero"), Sandusky, O.

Apple Paring Machines

SPRAGUE CANNING MACHINERY Co. (For Cannery), 42 River, Chicago, Ill. (See adv. index, end of book)

Armature Banding Machines

American General Engineering Co. (Heading & Banding, "A. G. A." Self-Contained), 253 B'way, New York
 Wood, Chas. N. Electric Co., 246 Summer, Boston, Mass.

Armature Coil Taping Machines

Griswold, Geo. M., New Haven, Conn.
 Riddon, Frank Co., 200 Summer, Boston, Mass.

Armature Coil Winding Machines

American General Engineering Co. (Armature & Field, "A. G. E."), 253 B'way, New York
 Riddon, Frank Co., 200 Summer, Boston, Mass.

Artesian Well Boring & Drilling Machinery

(See Well Drilling Machinery)

Asphalt Machinery

Contractors' Tool Co., 704 Arch, Phila., Pa.
 Cummer, F. D. & Son Co., The Arcade, Cleveland, O.
 Erie Machine Shops, Erie, Pa.
 Hetherington & Berner Co., Indianapolis, Ind.
 Iroquois Iron Works, Buffalo, N. Y.
 Pioneer Machine Works (Jas. Hartley, Prop.), (Road Making), 75 Delevan, Brooklyn, N. Y.

Auger Brick Machines

Leader Mfg. Co., Decatur, Ill.
 Steele, J. C. & Son, Statesville, N. C.

Automatic Flour, Grain Weighing & Packing Machines

Avery Scale Co., North Milwaukee, Wis.

Automatic Weighing Machines

Automatic-Weighing Machine Co., Jersey City, N. J.
 Avery Scale Co. ("Avery" Automatic Self-Indicating & Totaling), North Milwaukee, Wis.
 Bond Scale Co. (Bond Automatic), San Francisco, Cal.
 Delevy Electro-Automatic Machine Co., 2007 Lake, New Orleans, La.
 Hardy, John B. (Electric), 116 Broad, New York
 National Automatic Weighing Machine Co., Mt. Kisco, N. Y.
 New England Automatic Weighing Machine Co. (For Weighing & Bagging Cement), 275 Congress, Boston, Mass.
 Pneumatic Scale Corporation (Ltd.), 311 Atlantic av, Boston, Mass.
 Richardson Scale Co., 15 Park row, New York, & 122 Monroe, Chicago, Ill.
SCHULE, F. H. CO., 27 Thames, New York. (See adv. index, end of book)
SMIDTH, F. L. & CO., 39 Cortlandt, New York. (See adv. index, end of book)
 Streeter-Ames Weighing & Recording Co., 140 Dearborn, Chicago, Ill.
 United States Automatic Weighing Machine Co., 88 Walker, New York

Automobile Body Machinery

DEFIANCE MACHINE WORKS, Defiance, O. (See adv. index, end of book)

Automobile Cylinder Boring Machines

Binsse Machine Co., Harrison, N. J.
 Davis, W. P. Co., Rochester, N. Y.
 Espen-Lucas Machine Works, Philadelphia, Pa.
 Lucas Machine Tool Co., Cleveland, O.

Automobile Wheel Machinery

DEFIANCE MACHINE WORKS, Defiance, O. (See adv. index, end of book)

Axe Handle Machinery

(See Lathes, Handle Turning.)

Axe Cutting Off & Centering Machines

FAWCUS MACHINE CO., 2820 Smallman, Pittsburg, Pa. (See adv. index, end of book)

Axe Upsetting Machines

Ajax Mfg. Co., Cleveland, O.

Axe Welding & Upsetting Machines

Kane & Roach, Syracuse, N. Y.

Badge Pin Machinery

Baird Machine Co., Oakville, Conn.

Bag Filling Machines

(See also Packing Machines.)

Brown Bag Filling Machine Co. (For Filling & Sealing Flat Paper Bags), Fitchburg, Mass.
 Dentler Bagger Co., Vicksburg, Mich.
 New England Automatic Weighing Machine Co., 275 Congress, Boston, Mass.
 O'Brien, A. P. (Sacking & Weighing), Richmond, Va.
 Ross, Chas. & Son Co., 148 Classon av., Brooklyn, N. Y.
 Sawyer, W. H. & Sons, Americus, Ga.
SCHULE, F. H. CO., 27 Thames, New York. (See adv. index, end of book)
 Vierzengel, M. (Paper Cement), 32 S. 6th, Brooklyn, N. Y.

Bag Making Machinery

Crompton & Knowles Loom Works (Looms), Worcester, Mass.
 Royal Machine Co., 61 N. J. R. av., Newark, N. J.
 Standard Machine Works, Newark, N. J.

Bag & Sack Filling & Sewing Machines

SCHULE, F. H. CO., 27 Thames, New York. (See adv. index, end of book)

Bakers' Machinery

(See Confectioners' Machinery)

Bale Tie Machines

Bruno Bale Tie Machine Mfg. Co. (Automatic, for Crossheads & Eyes), 409 E. 47th, New York
 Collins Flow Co., Quincy, Ill.
 Dederick's, P. K. Sons, Albany, N. Y.
 Eclipse Hay Press Co., Kansas City, Mo.
 Ertel, Geo. Co., Quincy, Ill.
 Famous Mfg. Co., East Chicago, Ind.
 Joliet Bale Tie Co., Joliet, Ill.
 Kansas City Hay Press Co., Kansas City, Mo.
 Porter, J. E. Co., Ottawa, Ill.
 Sandwich Mfg. Co., Sandwich, Ill.
 Scott Hay Press Co., Kansas City, Mo.
 Whitman Agricultural Co., St. Louis, Mo.

Ball Bat Machinery

DEFIANCE MACHINE WORKS, Defiance, O. (See adv. index, end of book)

Baluster Machinery

DEFIANCE MACHINE WORKS, Defiance, O. (See adv. index, end of book)

Band Re-Sawing Machines

(See also Band Sawing Machines)

ALLIS-CHALMERS CO. (Horizontal), Milwaukee, Wis. (See adv. index & branch offices, end of book)

Bentel & Margedant Co., Hamilton, O.
 Connell & Dengler Machine Co., Rochester, N. Y.
 Cordesman-Rechtin Co., Cincinnati, O.
 Fay, J. A. & Egan Co., Cincinnati, O.
 Fischer, E. Machine Works (Engelbert Fischer, Prop.), 710 Carroll av., Chicago, Ill.
 Mershon, W. B. & Co., Saginaw, Mich.
 Wickes Bros., Saginaw, Mich.
 Yerkes & Finan Woodworking Machine Co., St. Louis, Mo.

Band Saw Brazing Machines

(See Brazing Machines, Band Saw)

Band Saw Filing Machines

Baldwin, Tuthill & Bolton ("Bolton"), Grand Rapids, Mich.
 Cunningham, E. E. (Est. of) ("Cunningham," Hand Power), Worcester, Mass.
 Rotary File & Machine Co. ("New, Reliable," Automatic), 589 Kent av., Brooklyn, N. Y.

Band Saw Patch Machines

Baldwin, Tuthill & Bolton, Grand Rapids, Mich.

Band Saw Setting Machines

Baldwin, Tuthill & Bolton ("Bolton"), Grand Rapids, Mich.
Cunningham, E. E. (Est. of) ("Cunningham," Automatic & Spring Lever), Worcester, Mass.
New Britain Machine Co. ("Equal-Blow"), New Britain, Conn.
Rotary File & Machine Co. (Automatic), 589 Kent av., Brooklyn, N. Y.

Band Sawing Machines

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)
American Sawmill Machinery Co., 114 Liberty, New York. Works: Hackettstown, N. J.
American Wood Working Machinery Co., Rochester, N. Y., West st. bldg., New York
Baldwin, Tuthill & Bolton, Grand Rapids, Mich.
Bentel & Margedant Co. (Also Bands, Re-Saws), Hamilton, O.
Clement, Frank H. Co., Rochester, N. Y.
Colladay, Jos. O., 624 Race, Phila., Pa.
Connell & Dengler Machine Co. (Band, Segment Re-Saws), Rochester, N. Y.
Cordesman, Rehtin Co. ("Re-Saw"), 25 Butler, Cincinnati, O.
Curtis & Co. Mfg. Co., St. Louis, Mo.
DEFIANCE MACHINE WORKS, Defiance, O. (See adv. index, end of book)
Dennis Machine Co., Jackson, Mich.
Fay, J. & A. Egan Co., Cincinnati, O.
Fischer, B. Machine Works (Band, Segment & Slab Re-Saws, etc.), 345 Canal, Chicago, Ill.
Frank Machinery Co., 214 Terrace, Buffalo, N. Y.
Gardner Machine Works (E. N. & W. H. Hobby, Prop's) (For Chair Mfrs., etc.), Gardner, Mass.
Garland, M. Co. (Self Feeding), Bay City, Mich.
Greaves, Klusman & Co., Cook & Alfred, Cincinnati, O.
Hall & Brown Woodworking Machine Co., St. Louis, Mo.
Hobbs Mfg. Co., Worcester, Mass.
Indiana Machine Works Co., Fort Wayne, Ind.
Kennedy, Ralph M., 117 N 7th, Phila., Pa.
McDonough Mfg. Co., Eau Claire, Wis.
Mershon, W. B. & Co. ("New England Ideal," Band Re-Sawing), Saginaw, Mich.
Oliver Machinery Co. ("Oliver") Grand Rapids, Mich.
Parks Ball Bearing Machine Co., Knowlton & Fergus, Cincinnati, O.
Power, L. & Co., 20 S 23d Phila., Pa.
Root, B. M. Co., York, Pa.
Silver Mfg. Co., Salem, O.
Smith, H. B. Machine Co., Smithville, N. J., & 121 Liberty, New York
Wickes Bros. (Also Re-sawing), Saginaw, Mich.
Wright, Chas. E. Co., New Orange, N. J.
Yerkes & Finan Wood Working Machine Co. (Also Re-Saws), St. Louis, Mo.

Band Sawing Machines for Metal

Newton Machine Tool Wks. (Inc.), 2347 Vine, Phila., Pa.
Thompson, H. G. & Son Co. ("Eureka"), New Haven, Conn.
Wright, Chas. E. Co., New Orange, N. J.

Band Saw Stave Jointing Machines

Fischer, E. Machine Works, 345 Canal, Chicago, Ill.

Band Spruce Sawing Machines

Brass Founders Supply Co. (For Brass Founders), Newark, N. J.

Bandage (Surgeons') Cutting Machines

CAMERON MACHINE CO., 61 Poplar, Brooklyn, N. Y. (See adv. index, end of book)

Bar Drawing Machines

(See Rod & Bar Drawing Machines)

Bar Pointing Machines

Brightman Mfg. Co., Shelby, O.

Barley Machinery

BARTLETT, C. O. & SNOW CO. ("Pearl"), French st., Cleveland, O. (See adv. index, end of book)

Barrel Boring Machines

Strait, H. N. (For Boring Holes in Barrels), Kansas City, Mo.

Barrel Heating Machines

Reed, L. M. (For Barrel Mfrs.), Cleveland, O.

Barrel Hoop Driving Machines

Strait, H. N., Kansas City, Mo.

Barrel Hoop Machinery

(See Hoop Machinery.)

Barrel, Keg, Stave & Heading Machinery

Atkins, E. C. & Co. (Inc.), Home Offices & Factories, Indianapolis, Ind.
Bartlett, A. F. & Co., Saginaw, Mich.
Benson, A. M. Co., Cleveland, O.
Chapman, T. M. & Sons Co., Old Town, Me.
Chattanooga Machinery Co. ("Standard" Stave Jointer for Slack Barrels, also Stave Bolt Equalizers, Stave Bolters, etc.), Chattanooga, Tenn.
Cook, R. A., Stevens' Point, Wis.
DEFIANCE MACHINE WORKS, Defiance, Ohio. (See adv. index, end of book)
Dix, J. L. Foundry Co., Glens Falls, N. Y.
Garland, M. Co., Bay City, Mich.
Gerlach, Peter Co. (For Kegs, Pails, Tubs & Slack & Tight Barrels), 1708 Columbus rd., Cleveland, O.
Goodspeed Machine Co. (Cylinder Stave Saws for Pail, Keg, Barrel, Tub, etc.), Winchendon, Mass.
Holmes, E. & B. Machinery Co., 59 Chicago, Buffalo, N. Y.
Merritt Mfg. Co., Lockport, N. Y.
Michels, J. & Co. (Hoop), Detroit, Mich.
Oram, Jno. S., 160 Coe, Cleveland, O.
Perkins & Co. ("Columbia" Heading Machines, etc.), Grand Rapids, Mich.
Phillips Barrel Co., Jamestown, N. Y.
Putnam, D. C. & Co. (Chamfering & Crozing Machines, etc.), Lyons, N. Y.
Reed, L. M. (Stave, Crozier, Setting-Up Machines & Headers, etc.), Cleveland, O.
Rochester Barrel Machinery Works (Slack Barrel, etc.), Rochester, N. Y.
Stamm Machine Works (Stave Rejoiners, etc.), Aurora, Ind.
Strait, H. N., Kansas City, Mo.
Strange, Chas. E., Taunton, Mass.
Trevor Mfg. Co. (Headings, Staves, etc.), Lockport, N. Y.
Whitman Agricultural Co. (Headers, etc.), 6900 S B'way, St. Louis, Mo.
Whitney, Baxter D. & Son (Stave Sawing Machinery), Winchendon, Mass.
Wickes Bros., Saginaw, Mich.

Barrel Setting-Up Machines

Reed, L. M. (Setting-Up, Leveling, Trussing, etc.), Cleveland, O.

Barrel Washing Machines

Cleveland Brewers' Supply Co., 317 Pearl, Cleveland, O.
Link Belt Machinery Co. (Automatic), W 39th & Stewart, Chicago
Schock, G., 341 E 59th, N. Y.

Basket Machinery

Cobden Machine Wks. (Stapling Machines), Cobden, Ill.
McGieghan, C. H. & Co., 11 B'way, New York
Mergenthaler-Horton Basket Machine Co., 253 B'way, New York
Merritt Mfg. Co., Lockport, N. Y.
St. Joseph Iron Works (Also Package), St. Joseph, Mich.
Saranac Machine Co. ("Advance" Automatic), St. Joseph, Mich.
Titus, E. E. (Automatic Power Quark Basket Stapling Machine), Petersburg, Va.

Beading Machines

(See Crimping & Beading Machines)

Beam Coping Machines

Cincinnati Punch & Shear Co., 1416 Plum, Cincinnati, O.

Bean & Seed Sorting Machinery

Bacon Mfg. Co., Pontiac, Mich.
SCHULE, F. H. CO., 27 Thames, New York. (See adv. index, end of book)

Beef & Bacon Slicing Machines

Ams Max Machine Co., Mt. Vernon, N. Y.

Beet Sugar Machinery

Allentown Fdry & Machine Works, Allentown, Pa.
Bartlett, Hayward & Co., Baltimore, Md.
Cornell, J. B. & J. M. Co., 26th & 11th av., N. Y.
Dyer Co., New England bldg., Cleveland, O.
Moline Plow Co., Moline, Ill.
Walburn, Swenson Co., Monadnock blk., Chicago, Ill.

Belt Cutting Machines

Luther, C. A. & Co., Pawtucket, R. I.

Belt Folding Machines

Birmingham Iron Foundry, Derby, Conn.
Farrel Foundry & Machine Co., Ansonia, Conn.

Belt Lacing Machines

Birdsboro Steel Foundry & Machine Co. ("Jackson"), Birdsboro, Pa.
Peerless Belt Lacing Machine Co., Swanson c Moore, Phila., Pa.

Belt Makers' Machinery

Dennis, Jno. Co., Lowell, Mass.
Turner Tanning Machine Co., Peabody, Mass.

Belt Stitching Machinery

Singer Sewing Machine Co. (for Rubber Belting, etc.), 149 E'way, New York

Belt Stretching Machines

Holmes, Chas. Machine Co., 299 Marginal, E. B., Boston, Mass.

Belt Strapping Machines

Diamond Machine Co., Providence, R. I.
Northampton Emery Wheel Co., Leeds, Mass.

Bench Grinding Machines

(See Grinders, Bench)

Bending Machines

Almy, Geo. F., Delphos, O.
ANDERSON, W. H. TOOL & SUPPLY Co. (Hand Bull Dozer), Detroit, Mich. (See adv. index, end of book)
BETHLEHEM FOUNDRY & MACHINE Co. (For Angles, Tees, Plates, etc.), Front, South Bethlehem, Pa., & 149 B'way, New York. (See adv. index, end of book)
Bethlehem Steel Co., South Bethlehem, Pa.
BLISS, E. W. CO. (Bulldozers), 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)
Long & Allstatter Co. (Horizontal, etc., Double Steam, Motor & Belt Driven), Hamilton, O.
Niles-Bement-Pond Co., 111 B'way, New York
Pittsburg Mfg. Co., 28th & R. R., Pittsburg, Pa.
Robinson, J. M. Mfg. Co. (1/4-inch Plates & Lighter), Cincinnati, O.
Wallace Supply Co. (Hand Power), 56 5th av., Chicago, Ill., & 26 Cortlandt, New York
Wickes Bros. (Plate, etc.), Saginaw, Mich.

Bending Machines (Hydraulic)

MORGAN ENGINEERING CO., Alliance, O. (See adv. index, end of book)
Niles-Bement-Pond Co., 111 B'way, New York
Quincy-Manchester-Sargant Co., Colony bldg, Chicago, Ill.
Sellers, Wm. & Co. (Inc.) (For Angles, Bars, Beams, etc.), 1600 Hamilton, Phila., Pa.
WATSON-STILLMAN CO., 26 Cortlandt, New York. (See adv. index, end of book)
Wood, R. D. & Co. (or Bulldozer), 400 Chestnut, Phila., Pa.

Bending Machines (Tube)

WATSON-STILLMAN CO., 26 Cortlandt, New York. (See adv. index, end of book)

Bending, Straightening & Punching Machines

Pittsburg Mfg. Co. ("The Cosgrove Double End"), 28th & Railroad, Pittsburg, Pa.

Bending & Forming Machines

(See Forming & Bending Machines)

Beveling Machines

Royle, Jno. & Sons (Inc.) (Photo Engravers'), Paterson, N. J.
Sheridan, T. W. & C. B. (Bookbinders, etc.), 56 Duane, N. Y., & 413 Dearborn, Chicago, Ill.

Bicycle Machinery

Adrianse Machine Works, Brooklyn, N. Y.
Bickford Drill & Tool Co., Cincinnati, Ohio
Billings, C. Spencer Co., Hartford, Conn.
Blake & Johnson, Waterbury, Conn.
BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)
Garvin Machine Co., 137 Varick, N. Y.
Hofer Mfg. Co., Freeport, Ill.
Langelier Mfg. Co., 67 Clifford, Providence, R. I.

MANNING, MAXWELL & MOORE, 85 Liberty, New York. (See adv. index & branch offices, end of book)
Manville, E. J. Machine Co. (Nipple Machinery), Waterbury, Conn.

New Haven Mfg. Co., New Haven, Ct.
Niles-Bement-Pond Co., 111 B'way, New York
Pratt, C. Whitney Co., Hartford, Conn.
Waterbury Farrel Fdy. & Machine Co., Waterbury, Conn.

Billing Machines

(See Typewriters, Adding & Billing).

Blast Furnace Machinery

(See also Rolling Mill Machinery)

MORGAN ENGINEERING CO., Alliance, O. (See adv. index, end of book)
Scafe Foundry & Machine Co., Pittsburg, Pa.
Welmer Machine Works Co., Lebanon, Pa.

Blast Hole Drilling Machines

Cyclone Drill Co., Orrville, O.
OIL WELL SUPPLY CO., 215 Water, Pittsburg, Pa. (See adv. index, end of book)

Blending & Sifting Machines

Howes, S. Co., Silver Creek, N. Y.
Salzman Mfg. Co., Hamilton, O.

Blind Slat Crimping Machines

Power, L. & Co., 20 S. 23d, Phila., Pa.
Smith, H. B. Machine Co., Smithville, N. J., & 121 Liberty, New York
Yerkes & Finan Woodworking Machine Co. (Blind Slat Tenoning & Boring Machines, etc.), St. Louis, Mo.

Blind Slat Sawing Machines

American Woodworking Machinery Co., Rochester, N. Y., West st. bldg., New York

Blind Wiring Machines

American Woodworking Machinery Co., Rochester, N. Y., West st. bldg., New York
Cordesman, Rechin Co., 27 Butler, Cincinnati, Ohio
Fay, J. A. & Egan Co., Cincinnati, O.
NIAGARA MACHINE & TOOL WORKS, Buffalo, N. Y. (See adv. index, end of book)
Power, L. & Co. ("Hinz"), 20 S 23d Phila., Pa.
Seymour & Whitlock, Newark, N. J.
Smith, H. B. Machine Co., Smithville, N. J., & 121 Liberty, New York

Blue Printing Machines

(For page number see Index of Contents)

Bobbin Machinery

(See Spool & Bobbin Machinery)

Boiler Head Flanging Machines

(See Flanging Machines)

Bolt Heading Machines

Acme Machinery Co., Cleveland, O.
Ajax Mfg. Co. (Automatic Feed), Cleveland, O.
American Machinery Co. ("Greenwood"), Wiloughby, O.
BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)
Brown, H. B. Co., East Hampton, Conn.
COOK, ASA S. CO. (New Patent Feed for Stove & Tire Bolts, etc.), Hartford, Conn. (See adv. index, end of book)
Howard Iron Works (The "Burdick," for Hex, Square & Carriage Bolts), Buffalo, N. Y.
National Machinery Co., Tiffin, O.
New, Doty Mfg. Co., Janesville, Wis.
Niles-Bement-Pond Co., 111 B'way, New York
Pawtucket Mfg. Co., Pawtucket, R. I.
Putnam Machine Co., Fitchburg, Mass.
Waterbury Farrel Foundry & Machine Co. (Automatic Cold), Waterbury, Conn.

Bolt Pointing Machines

Acme Machinery Co., Cleveland, O.
American Iron & Steel Mfg. Co., Lebanon, Pa.
Brown, H. B. Co., East Hampton, Conn.
Detrick & Harvey Machine Co., 508 E Preston, Baltimore, Md.
Howard Iron Works, 287 Chicago, Buffalo, N. Y.
National Machinery Co., Tiffin, O.
Niles-Bement-Pond Co., 111 B'way, New York
Pawtucket Mfg. Co., Pawtucket, R. I.
Pratt & Whitney Co., Hartford, Conn.
Standard Machinery Co., Bowling Green, Ohio
WELLS BROS. CO. ("Little Giant"), Greenfield, Mass. (See adv. index, end of book)

Bolt Threading Machines

Acme Machinery Co., Cleveland, O.
American Machinery Co. ("Greenwood"), Wiloughby, O.
Becher, Jas. A., South Bend, Ind.
Brown, H. B. Co. ("Merriam," Automatic & Non-Automatic, Single or Double Spindle), East Hampton, Conn.
COOK, ASA S. CO. (For Stove & Tire Bolts, etc.), 80 Hayslope av. (See adv. index, end of book)
Detrick & Harvey Machine Co. ("Adams"), 508 E. Preston, Baltimore, Md.
FREVERT MACHINERY CO., 18 Dey, New York. (See adv. index, end of book)
Hart Mfg. Co., Wood & St. Clair, Cleveland, O.
Howard Iron Works (Automatic), 287 Chicago, Buffalo, N. Y.
National Machinery Co., Tiffin, O.
Niles-Bement-Pond Co., 111 B'way, New York
Pawtucket Mfg. Co., Pawtucket, R. I.
Pratt & Whitney Co., Hartford, Conn.
Reece, E. F. Co., Greenfield, Mass.
Saunders, D. Sons, Yonkers, N. Y.
Standard Engineering Co., Ellwood City, Pa.
TUOHY BROS. CO., 95 Liberty, New York. (See adv. index, end of book)
Webster & Perks Tool Co., Springfield, O.
WELLS BROS. CO. ("Little Giant"), Greenfield, Mass. (See adv. index, end of book)
Wiley & Russell Mfg. Co., Greenfield, Mass.

Bolt Upsetting Machines

Acme Machinery Co., Cleveland, O.
Ajax Mfg. Co., Cleveland, O.
National Machinery Co., Tiffin, O.
Niles-Bement-Pond Co., 111 B'way, New York
Pawtucket Mfg. Co., Pawtucket, R. I.

Bolt & Nut Machinery

Acme Machinery Co., Cleveland, O.
Ajax Mfg. Co., Cleveland, O.
American Machinery Co. ("Greenwood"), Wiloughby, O.
Badger State Machine Co., Janesville, Wis.
Blake & Johnston, Waterbury, Conn.
Boynton & Plumber, Worcester, Mass.
Brown, H. B. Co., East Hampton, Conn.
Eilers, H. P. Mfg. Co., 26½ Water, Cleveland, O.
FREVERT MACHINERY CO., 18 Dey, New York. (See adv. index, end of book)
Hartford Machine Screw Co., Hartford, Conn.
Howard Iron Works (Automatic), 287 Chicago, Buffalo, N. Y.
National Machinery Co., Tiffin, O.
Niles-Bement-Pond Co., 111 B'way, New York
Pawtucket Mfg. Co., Pawtucket, R. I.
Phillips & McLaren, 24th & Smailman, Pittsburg, Pa.
Pratt & Whitney Co., Hartford, Conn.
Reece, E. F. Co., Greenfield, Mass.
Putnam Machine Co., Fitchburg, Mass.
Standard Machinery Co., Bowling Green, O.
TUOHY BROS. CO., 95 Liberty, New York. (See adv. index, end of book)
Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.
Webster & Perks Tool Co., Springfield, O.
WELLS BROS. CO., Greenfield, Mass. (See adv. index, end of book)
Williams, White & Co., Moline, Ill.

Bolt & Nut Screwing Machines

Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Phila., Pa.

Bolting Machines

Kauffman, J. A. ("Kauffman's" Wheel Rim), Miamisburg, O.
Nordyke & Marmon Co. (For Flour & Corn Mills), Indianapolis, Ind.
Ross, Charles & Son Co., 148 Claxson av., Brooklyn, N. Y.
Sprout, Waldron Co., Muncy, Pa.

Bolting Saw Machines

Gerlach, Peter Co. (Hand & Power Feed), 1708 Columbus Rd., Cleveland, O.

Book Binders' Machinery

Beck, Chas. Paper Co. (Ltd.), 607 Chestnut, Phila., Pa.
Brown, R. H. & Co., New Haven, Conn.
Chambers Bros. Co., 52d, below Lancaster av, Phila., Pa.
Crawley Book Machinery Co., Newport, Ky.
Dexter Folder Co., 290 B'way, New York
Economic Machine Co., 28 Reade, N. Y.
Egbert, H. L. & Co., 21 New Chambers, N. Y.
Fuller, E. C. Co., 28 Reade, New York
Hickok, W. O. Mfg. Co., Harrisburg, Pa.
Hoole Mach. & Engraving Works, 29 Prospect, Brooklyn, N. Y.
Lange, Henry G., 22 N May, Chicago, Ill.
Latham Machinery Co., 199 S Canal, Chicago, Ill.
Liberty Machine Co., 31 Burling sl, New York
Lovell, Chas. W., 6 Reade, New York
Marshall, Son & Co., 226 Purchase, Boston, Mass.
Premier Machine Works, 164 William, New York
Robinson, Jno. T. Co., Hyde Park, Mass.
Saranac Machine Co. (Wire Book Stitching), St. Joseph, Mich.
Seybold Machine Co., Dayton, O.
Sheridan, T. W. & C. B., 56 Duane, N. Y., & 413 Dearborn, Chicago, Ill.
Sigourney Tool Co., Hartford, Conn.
Smyth Mfg. Co., Hartford, Conn.
Standard Machinery Co., Mystic, Conn.
Tatum, Saml. C. Co., 414 W. Water, Cincinnati, O.
Thompson & Son, 6 Elm, New Haven, Conn.
Ziegler, Robt. & Sons, St. Louis, Mo.

Book Covering Machines

Sheridan, T. W. & C. B., 56 Duane, New York, & 413 Dearborn, Chicago, Ill.

Book Sewing Machines

Sigourney Tool Co., Hartford, Conn.
Smyth Mfg. Co., Hartford, Conn.
Thompson, Henry G. & Son Co., New Haven, Conn.

Book Stitching Machinery

Saranac Machine Co., St. Joseph, Mo.

Boot Machinery

(See Shoe Machinery.)

Boring Machines

(See Metal Boring Machines; also Wood Boring Machines.)

Boring Machines for Electric Wiring

Ford Auger Bit Co., Holyoke, Mass.
G. & E. Electric & Construction Co., Binghamton, N. Y.
McCrea, Jas. & Co. "Robert's", 67 W Washn, Chicago, Ill.
Star Electric Co. (the G. & E.), Binghamton, N. Y.

Boring Machines (Hand)

Swan, Jas. Co. (Wood Frame for Wood), Seymour, Conn.

Boring Machines (Locomotive Connecting Rod)

Prentice Bros. Co., Worcester, Mass.

Boring Machines (Portable)

Chicago Flexible Shaft Co., La Salle av & Ontario, Chicago, Ill., & 97 Chambers, New York

OIL WELL SUPPLY CO., 215 Water, Pittsburgh, Pa. (See adv. index, end of book)
Stow Flexible Shaft Co., N 26th & Buttonwood, Philadelphia, Pa.
Stow Mfg. Co., Binghamton, N. Y.

Boring & Drilling Machines

(See Mills, Boring & Turning)

Boring & Drilling Machines (Horizontal)

American Tool Works, Cincinnati, O.
Barnes, B. F. Co., Rockford, Ill.
Barnes, W. F. & John Co., Rockford, Ill.
Beaman & Smith Co., Providence, R. I.
Betts Machine Co., Wilmington, Del.
Binse Machine Co., Newark, N. J.
DALLETT, THOS. H. CO. (Electric Portable), York & Sedgley av, Phila., Pa. (See adv. index, end of book)
Detrick & Harvey Machine Co., Baltimore, Md.
Fitchburg Machine Works, Fitchburg, Mass.
Fosdick Machine Tool Co. (& Milling), Cincinnati, O.
Franklin Machine Works, 1231 Callowhill, Phila., Pa.
FREVERT MACHINERY CO., 18 Dey, New York. (See adv. index, end of book)
GISHOLT MACHINE CO. (Operating from Either Side), Madison, Wis. (See adv. index & branch offices, end of book)
Hocfer Mfg. Co. (Also Horizontal & Vertical Combined), Freeport, Ill.
Lucas Machine Tool Co., Cleveland, O.
McCabe, J. J., 15 Dey, N. Y.
Niles-Bement-Pond Co., 111 B'way, New York
Pawling & Harnischfeger, 38th & National avs, Milwaukee, Wis.
Pratt & Whitney Co., Hartford, Conn.
Prentice Bros. Co., Worcester, Mass.
Putnam Machine Co., Fitchburg, Mass.
TUOHY BROS. CO., 95 Liberty, New York. (See adv. index, end of book)
Warner & Swasey Co., Cleveland, O.

Boring & Tapping Machines (Automatic)

Dreses Machine Tool Co. (Boring, Facing & Tapping), Cincinnati, O.

Bottle Blowing Machines

Cox Bros., Bridgeton, N. J.

Bottle Filling Machines (Automatic)

Bottlers Machinery & Mfg. Co., 67 Wells, Chicago, Ill.
Edson Mfg. Co., 257 Atlantic av, Boston, Mass.
Ermold, E., 652 Hudson, N. Y.
Henes & Keller Co., Milwaukee, Wis.

Bottlers' Machinery & Supplies

(See also Brewers' & Malsters' Machinery & Supplies.)

Aetna Bottle & Stopper Co. (Bottle Stoppers, etc.), Providence, R. I.
American Soda Fountain Co., 449 1st av, N. Y.
American Stopper Co., 4 Verona, Brooklyn, N. Y.
Baird Machine Co. (Special Machinery & Bottle Stoppers), Oakville, Conn.
Barry-Wehmiller Machinery Co., St. Louis, Mo.
Bastian, C. L. Mfg. Co., 76 Illinois, Chicago, Ill.
Bernardin Bottle Cap Co. (Metallic Bottle Caps, "Cyclone" Soda Neck Wires & Beer Stoppers), Evansville, Ind.
Bishop & Babcock Co. ("Eureka" Beer Bottling Machine), Hamilton av, Cleveland, O.
Blue Seal Supply Co., 12 Portland, Boston, Mass.
Boston Bottle Wiring & Labeling Co., 404 Atlantic av, Boston, Mass.
Bottle Capping Machine Co. (Bottle Capping Machines), 949 B'way, New York
Bottlers' Machinery Co. ("Peerless" Labeling Machines), 79 Milk, Boston, Mass.
Bottlers Machinery Mfg. Co., 67 Wells, Chicago, Ill.
Brewers' & Bottlers' Machinery Works, Chicago, Ill.
Budde & Westermann, 50 Vesey, New York
Crown Cork & Seal Co. (Loop Seals, Bottle Stoppers, etc.), 1511 Guilford av, Baltimore, Md.
Cunningham Mfg. Co., 113 S 7th, Phila., Pa.
Day, J. H. & Co., Cincinnati, O.
Detroit Automatic Sterilizer Co. (Soaking & Sterilizing Machines), 65 Catharine, Detroit, Mich.
Dicke Tool Co., Downer's Grove, Ill.
Economic Machinery Co. ("Star" & "World" Labeling Machines), Worcester, Mass.
Ermold, Edward, 656 Hudson, N. Y.
Fowler Bottling Machine Co. ("Universal") Stamford, Conn.
Frankel, Max Co. (Bottlers' Supplies, Corks, etc.), 212 Pearl, New York
Goldman, E. & Co. (Inc.) (Pasteurizers, Crate Soakers, "Tunelius" Bottle Washers, "Economic" Rackers, etc.), 175 E Randolph, Chicago, Ill.
Henes & Keller Co. (Bottle Fillers, Air Regulators, etc.), Menominee, Mich.
Hinde & Dauch Paper Co. ("Climax" Bottle Wrappers), Cincinnati, O.
Hoyt Bros. & Co. (Bottle Washers, etc.), Lynn, Mass.
Hutter, Karl, 241 Lafayette, New York
Hygienic Bottling Machine Co., 6 Wall, N. Y.
Independent Filter Co. ("Goldman" Bottle Filter), 175 E Randolph, Chicago, Ill.
Ledrich Mfg. Co., 6 Oak, Chicago
Leffler, Chas. & Co. (Lighting), 63 Clymer, Brooklyn, N. Y.
Leu & Co., Long Island City, N. Y.
Lightning Bottle Wirer Co. (Wiring), Produce Exchange, N. Y.
Loew Mfg. Co. (Bottle Cleaning Machines, etc.), 9100 Madison av, Cleveland, O.
McKenna Bros. Brass Co. (Beer Bottling Faucets), 1st av & Ross, Pittsburgh, Pa.
Magnus, A. Sons Co. ("Otto" Bottle Soaking, Washing & Rinsing Machines, "Colby" Rackers, "Herder" Shaving Washers, "Magnus" Conveying Tables, etc.), 244 E Randolph, Chicago, Ill.
Merkel Mfg. Co., 19 Whitehall, N. Y.
Nordberg Mfg. Co., Milwaukee, Wis.
Puffer Mfg., 218 Centre, N. Y.
Schneider Perfection Bottling Machine Co. ("Perfection" Bottling Machines), 141 S Clinton, Chicago, Ill.
Twentieth Century Machinery Co. (Bottle Soaking Machines), Milwaukee, Wis.
VILTER MFG. CO., 1046 Clinton, Milwaukee, Wis. (See adv. index, end of book)
Wenzell, S. S. Machine Co. ("Eick" Bottle Washing & Rinsing), 443 N 12th, Phila., Pa.

Witteman Co. (Specialties), 188 William, New York
Yawman & Erbe Mfg. Co., Rochester, N. Y.
Zoller, Cbas. Co., 211 E 94th, New York

Box Board Machines

Austin & Sou (also Heading), Grand Rapids, Mich.
Bentel & Margedant Co., Hamilton, O.
Carver Cotton Gin Co., East Bridgewater, Mass.
Fischer Machine Works (Power Feed Box, Board Matcher), 710 Carroll av, Chicago, Ill.
Gerlach, Peter Co. ("Jumbo"), 1708 Columbus rd, Cleveland, O.
Hall & Brown Woodworking Machine Co. (Power Feed Box Board Matches), 1917 N B'way, St. Louis, Mo.
Humbrey Machine Co., Keene, N. H.
Murray, D. J. Mfg. Co., Wausau, Wis.

Box Board Matching Machines

American Woodworking Machinery Co., Rochester, New York, West st. bldg, New York, N. Y.
Fischer, E. Machine Works (Single & Double Color), 710 Carroll av, Chicago, Ill.
Morgan Machine Co., Rochester, N. Y.

Box Board Printing Machines

Boston Printing Press & Machinery Co. ("Prouty"), 176 Federal, Boston, Mass.
Connell & Dengler Machine Co. (Three Colors), Rochester, N. Y.
Cross Press & Sign Co., 57 Dayton, Chicago, Ill.
GRAMMES, L. F. & SONS (Cigar Box, etc.), Allentown, Pa. (See adv. index, end of book)
Hayes Machine Co. (Inc.) (Automatic), Kingston, N. Y.
Hooper, F. X., Baltimore, Md.
Morgan Machine Co. (One to Three Colors), Rochester, N. Y.
Yerkes & Finan Woodworking Machine Co., St. Louis, Mo.

Box Board Scoring Machines

Hobbs Mfg. Co., Worcester, Mass.

Box Cleating Machines

(See Box Nailing and Cleating Machines)

Box Dressing Machines

Doig, Wm. S. (Est. of), 54 Franklin, Brooklyn, N. Y.
Hayes Machine Co. (Inc.), Kingston, N. Y.

Box Ending Machines

Hobbs Mfg. Co., Worcester, Mass.

Box Hand Hole Cutting Machines

Fischer, E. Machine Works (Automatic), 710 Carroll av, Chicago, Ill.
Chase Turbine Mfg. Co., Orange, Mass.

Box Hinging Machines

GRAMMES, L. F. & SONS, Allentown, Pa. (See adv. index, end of book)

Box Makers' Machinery

(See also Woodworking Machinery)

American Woodworking Machinery Co., Rochester, N. Y., West st bldg, New York
Bentel & Margedant Co., Hamilton, O.
Burgess, E. A. (Est. of) (Nailing, Trimming, etc.), New Haven, Conn.
Connell & Dengler Machine Co., Rochester, N. Y.
Cordesmau, Rehtin Co., 25 Butler, Cincinnati, O.
Dovetail Box Machine Co. (Dovetail Box Machines), St. Paul, Minn.
Fay, J. A. & Egan Mfg. Co., Cincinnati, O.
Garland, M. Co. (Box Board, etc.), Bay City, Mich.
GRAMMES, L. F. & SON (Cigar & Wooden), Allentown, Pa. (See adv. index, end of book)
Hall & Brown Woodworking Machine Co., 1917 N B'way, St. Louis, Mo.

Hayes Machine Co. (Inc.), Kingston, N. Y.
Heath, W. A. Machine Co., Lestershire, N. Y.
Hemingway, John & Son (Sizing, Saw, etc.),
Lynn, Mass.

Hobbs Mfg. Co., Worcester, Mass.
Humphrey Machine Co., Keene, N. H.
Luther, B. G. & Co., Worcester, Mass.
Mereen, Arno (Box Shook Band, Re-Sew, etc.),
Minneapolis, Minn.

Montague Iron Works Co., Montague, Mich.
Morgan Machine Co., Rochester, N. Y.
Power L. & H. Co., 20 S 23d, Phila., Pa.
Smith, H. B. Machine Co., Smithville, N. J., &
121 Liberty, New York

Strange, Chas. E., Taunton, Mass.
Wickes Bros., Saginaw, Mich.

Box Nail Feeding Machines

Doig, Wm. S. (Est. of) (Automatic), 54 Frank-
lin, Brooklyn, N. Y.

Box Nailing & Cleating Machines

Burgess, E. A. (Est.), New Haven, Conn.
Doig, Wm. S. (Est. of) (of all Kinds; also
Double Decker Nailing & Cleating), 54
Franklin, Brooklyn, N. Y.

GRAMMES, L. F. & SONS (Upright
Power for Light & Medium Boxes, Brushes,
Chairs, etc.), Allentown, Pa. (See adv. in-
dex, end of book)

Hayes Machine Co. (Inc.) (Automatic), Kings-
ton, N. Y.
Milliken Bros., 79 Washington av, Brooklyn,
N. Y.

Morgan Machine Co., Rochester, N. Y.

Box Stapling Machines

(See Wire Stapling Machinery)

Box Strapping Machines

Doig, Wm. S. (Est. of) (Beer Box), 54 Franklin,
Brooklyn, N. Y.

Box Trimming Machines

Burgess, E. A. (Est. of), New Haven, Conn.
Fischer, E. Machine Works (Double Box Block-
er), 710 Carroll av, Chicago, Ill.
Morgan Machine Co. (for Dressing Corners of
Lock Corner Boxes), Rochester, N. Y.

Brace Head Machines

Bradley, H. C. (For Wood Heads), Bridgeport,
Conn.

Brass Sawing Machines

Griswold, Geo. M., New Haven, Conn.

Brass & Copper Rolling Mill Machinery

Torrington Mfg. Co., Torrington, Conn.

Brazing Machines (Band Saw)

American Woodworking Machinery Co., Roches-
ter, N. Y., West st bldg, New York
Atkins, E. C. & Co. (Inc.), Home Offices &
Factories, Indianapolis, Ind.
Baldwin, Tnithill & Bolton, Grand Rapids, Mich.
Filer & Stowell Co., Milwaukee, Wis.
Rogers, S. C. & Co., 10 Lock, Buffalo, N. Y.
Waterbury Farrel Fdy. & Machine Co., Water-
bury, Conn.

Brewers' & Malsters' Machinery & Supplies

(See also Bottlers' Machinery & Supplies; also
Ice and Refrigerating Machinery; also
Elevating and Conveying Machinery; also,
Heaters, Feed Water)

Adt, John B., 332 N Holliday, Baltimore, Md.
Albany Brass & Iron Co., Albany, N. Y.
American Antiformin Co. ("Antiformin"), 168
8th, Brooklyn, N. Y.

American Copper & Iron Works (Brew Kettles,
Mash Tubs, Beer Coolers, etc.), 928 Winne-
bago, Milwaukee, Wis.

Barry-Wehmiller Machinery Co., St. Louis, Mo.

BETHLEHEM FOUNDRY & MACHINE

Co. (Rice Ricks, Malt Mills, Mash Machines,
Cleaning Reels, Cask Supporters, etc.),
Front, South Bethlehem, Pa., & 149 B'way,
New York. (See adv. index, end of book)

Blettner, Jos. B. & Co., 1976 Central av, Cin-
cinnati, O.
Brahm, Jos., 150 Nassau, N. Y.

Brewing Appliance Specialty Co. ("Perfection"
Tapping Devices), Hartford, Conn.
British-American Co. (Inc.) ("Bishopric's San-
ite Mastic"), Cincinnati, O.

Buecker, Henry F., 27 W 6th, Newport, Ky.
Buffalo Scale Co. (Brewers' Scales), Buffalo, N.Y.
Cleveland Brewers' Supply Co., 317 Pearl,
Cleveland, O.

Cypress Lumber Co. (Tanks, Vats, etc.), Apa-
lachicola, Fla., & 88 Broad, Boston, Mass.

Deckebach, F. O. Sons Co. (Cooling Apparatus,
etc.), 123 W Court, Cincinnati, O.

Dornfeld, J. F. (Malting Drums), 134 Van
Buren, Chicago, Ill.

Engel, Geo. Beer Cooler Co., 182 E Genessee,
Buffalo, N. Y.

Eureka Machine Co. (Branding Machines, Pitch
Spraying Apparatus, Pitching Machines, Keg-
Scrubbing Machines, etc.), 128 Vega av,
Cleveland, O.

Fritsch, Francis Mfg. Co. (Engineers & Con-
tractors), 223 W McMicken av, Cincinnati, O.

Galland-Henning Pneumatic Malting Drum
Mfg. Co. (Pneumatic Malting Drums),
Mitchell bldg, Milwaukee, Wis.

Girard Iron Works (Cask Rests, Vat Supporters,
Hose Passers, etc.), 22d & Master, Phila.,
Pa.

Girard Machine Works (Inc.), 2616 Girard av,
Phila, Pa.

Goetz & Flodin Mfg. Co. (Mash Tubs, Brew
Kettles, Beer Coolers, Filters, Bronze
Drilled False Bottoms, etc.), 109 W Chicago
av, Chicago, Ill.

Golden Gate Mfg. Co. ("Golden Gate" Lager
Beer Valves & Racking Apparatus), 9 Des-
brosses, New York

Goldman, E. & Co., 175 E Randolph, Chicago
Haggenmiller, Th. (Est. of) (Combination
Pitching Machines), 827 N 4th, Phila., Pa.

Harris, Arthur & Co. (Copper & Brass Work),
44 N. Curtis st, Chicago, Ill.

Heiser, Wm. & Sons Co. (Manhole Doors, etc.),
114 Clinton, Buffalo, N. Y.

Herold, M. A. (Coolers, Pipe Apparatus, etc.),
554 Orchard, Milwaukee, Wis.

Hersey Mfg. Co. (Thermo-Pneumatic Malting
Apparatus), 314 W 2d, South Boston, Mass.

Hirsh & Schofield, 18 Water, N. Y.

Heyman, N. H. (Keg-Scrubbing, Sprinkling Ma-
chines, etc.), 438 E 59th, New York

Howes, S. Co. (Polishing & Separating Ma-
chines), Silver Creek, N. Y.

Huetteman & Cramer Co., c Beaufait & Mack
avs, Detroit, Mich.

Hnntley Mfg. Co. ("Monitor" Malt Cleaner),
Silver Creek, N. Y.

JEFFERY MFG. CO. (Barrel & Keg
Elevators), Columbus, O. (See adv. index &
branch offices, end of book)

Kaestner & Co. (Inc.) (Grain Removers, Mash-
ing Machines, Pitching Machines, Malt
Mills, etc.), 241 S Jefferson, Chicago, Ill.

Kast Copper & Sheet Iron Co. (Brew Kettles,
Stillis, Mash Tubs, Coolers, etc.), 91 Main,
Buffalo, N. Y.

Keller, Robert ("Nonpareil" Stamp Paste &
Isinglass, etc.), 334 3d, Phila., Pa.

Laubenheimer, Geo. E. Co. (Brew Kettles, Beer
Coolers, etc.), 1347 Carroll av, Chicago, Ill.

Liquid Carbonic Co., 67 N Wells, Chicago
Loew Mfg. Co. ("Loco Magic" Purifier), Cleve-
land, O.

Mark Mfg. Co., Evanston, Ill.

Matthews, John, Apparatus Co. (Carbonic Acid
Gas Machinery), 449 1st av, New York

Mey Chain Belting Engineering Works, 34
Washington, Buffalo, N. Y.

Milwaukee Brewers' Specialty Co. ("Milwau-
kee" Steaming Tray), Milwaukee, Wis.

National Machine Works (Pitching Machines),
Sheffield and North av, Chicago, Ill.

Newark Faucet Co., Chelsea, Mass.
Novelty Steam Boiler Works (Triplett & Jen-
nings, Prop's) (Mash Tubs), 917 S Howard,
Baltimore, Md.

Olsen & Tilgner Mfg. Co. (Mash Machines, Non-
Explosive Malt Mills, Keg & Barrel Scrub-
bers, Shaving Washers, Filter-Mass Wash-
ers, Keg & Barrel Rinsers, etc.), 37 On-
tario, Chicago, Ill.

Orth, Fred (Mash Machines, etc.), 181 Prince,
New York

Prince, John A. (Soaking, Washing & Rinsing
Machines), 154 W 27th, New York

Prinz & Rau Mfg. Co. (Barley Graders & Sep-
arators), 659 E Water, Milwaukee, Wis.

Rauch, Henry & Son ("Universal" Pitching Ma-
chines), 47 Centre, New York

Reisinger, Hugo (Filtering Apparatus), 11
B'way, N. Y.

Rheinstrom Bros. ("Perfection" Beer Filters),
919 Martin, Cincinnati, O.

Rilling, Chas. (Mash Machines, Malt Mills,
Malt Scourers, Grain Elevators, Barrel and
Keg Elevators, etc.), 524 W 34th, New York

Rochester Bunging Apparatus Co. (Racking Ap-
paratus), Beckley bldg, Rochester, N. Y.

Rochester Valve Co. (Brewers' Valves), Ro-
chester, N. Y.

Roos', August, Son Copper Works (Fire Ket-
tles, Fold Bottoms, Beer Coolers, etc.), 232
W 7th, New York

Ruff, William J. (Pasteurizing Apparatus),
Quincy, Ill.

Saladin Pneumatic Malting Construction Co.
(Pneumatic Malting Plants), 57 S Clinton,
Chicago, Ill.

Salzman Mfg. Co. (Grain Cleaners, Malt Scour-
ers, etc.), Hamilton, O.

Schneible, Joseph Co. (Racking, Carbonating &
Cooling Apparatus), 128 Mott, N. Y.

Schock, G. (Barrel Elevators, Shaving Ma-
chines, Malt Mills, Mash Machines, etc.),
341 E 59th, New York

Seibel-Suessdorf Copper & Iron Mfg. Co. (Barrel
Washers, Isinglass Mixers, Beer Coolers,
etc.), cor. 2d & Lombard, St. Louis, Mo.

Selg Brewery Apparatus Co. (Fermenters,
Washing Apparatus, etc.), 40 Water, New
York

Thornburgh, H. L. & Co., 245 S Jefferson,
Chicago

Toepfer, W. & Sons, 76 Menominee, Milwaukee,
Wis.

Torchiani, H. ("Ideal" Racking Apparatus,
Pitching Machines, etc.), 245 Pearl, N. Y.

Unique Engineering Co., 100 Hinsdale, Brook-
lyn, N. Y.

VILTER MFG. CO. (Complete Brew-
ery Equipment), 1046 Clinton, Milwaukee,
Wis. (See adv. index, end of book)

Wasel's Copper Works (Kettles, Mash Tubs,
False Bottoms & Copper Work of All De-
scriptions for Breweries, Distilleries, etc.),
50 N 3d, Brooklyn, N. Y.

White Racker Co. (Racking Machines), 105 S
Jefferson, Chicago, Ill.

Wittmann Co., 188 William, New York

Zinsser, Wm. & Co. (Isinglass, Pitch, Alkalies,
Acids, etc.), 197 William, New York

Zobler, Otto Mfg. Co. (Kettles, Coolers, etc.),
163 W Chicago av, Chicago, Ill.

Zolier, Chas. Co. (Barrel Washing-Machines,
Keg Scrubbing Machines, etc.), 211 E 94th,
New York

Briar Pipe Machinery

Leffler, Chas. & Co., 63 Clymer, Brooklyn, N. Y.

Brick Cutting Machines

Freese, E. M. & Co., Gallon, O.

Brick Machinery & Supplies

(See also Brick Dryers; also Brick Press Ma-
chines)

Adrian Mfg. Co., Adrian, Mich.
American Blower Co. (Dryers Only), 1400 Rus-
sell, Detroit, Mich.

AMERICAN CLAY MACHINERY CO.,
Bucyrus, O., & Willoughby, O.

Anderson Foundry & Machine Works, Anderson,
Ind.

Arnold-Creager Co. (Supplies, New London, O.
Atlanta Brick Machinery Co., Atlanta, Ga.

Baird, H. C. & Son, Park Hill, Ont., Can.

BONNOT COMPANY, Canton, O. (See
adv. index, end of book)

Brewer, H. & Co., Tecumseh, Mich.
Canner, P. & Co., Saugerties, N. Y.

CARLINS, THOS. SONS, 1300 River
av, Allegheny, Pa. (See adv. index, end
of book)

Carnell, George (Est. of), 1819 N 5th, Phila, Pa.
Centre Foundry Co., Wheeling, W. Va.

Chambers Bros. Co., 52d, below Lancaster av,
Phila., Pa.

Chicago Brick Machinery Co., 77 Jackson boul,
Chicago, Ill.

Chisholm, Boyd & White Co., W 57th c Wal-
lace, Chicago, Ill.

Clearfield Machine Shops (Fire Brick), Clear-
field, Pa.

Connellsville Machine & Car Co., Connellsville,
Pa.

Craycroft, Benj., Vandalia, Ill.

Eastern Machinery Co., New Haven, Conn.

Fate, J. D. Co., Plymouth, O.

Fernholtz Brick Machinery Co., Boyle & Old Manchester avs., St. Louis, Mo.
 Freese, E. M. & Co., Gallon, O.
 Hilton Machine Co., Dunkirk, N. Y.
 Hollingsworth, W. T., Covington, Ky.
 Horton Mfg. Co., Painesville, O.
 Huettelman & Cramer Co., 65 Catharine, Detroit, Mich.
 Kells Foundry & Machine Co. (Auger Machines, Brick & Tile), Adrian, Mich.
 Knowles, W. H. (Clay Pans, etc.), Ottawa, Ill.
 Leader Mfg. Co., Decatur, Ill.
 Madden & Co., Rushville, Ind.
 Martin, Henry Brick Machine Mfg. Co., Lancaster, Pa.
 Means Foundry & Machine Co., Steubenville, O.
 Michigan Brick & Tile Machine Co., Morenci, Mich.
 Millard, Jas. & Son, Kingston, N. Y.
 Mock, J. F., Hartford City, Ind.
 Morrison, Trammell Brick Co., Rome, Ga.
 National Brick Machinery Co., 138 Wash'n, Chicago, Ill.

Naylor Bros., Peekskill, N. Y.
 Patterson Foundry & Machine Co., East Liverpool, O.
 Ohio Ceramic Engineering Co., Cleveland, O.
 Ohio Machine Co., Middleport, O.
 Potts, C. & A. & Co., 514 W Washington, Indianapolis, Ind.
 Queen City Brick Machine Co. (for Cement Brick), Traverse City, Mich.
 Raymond, C. W. Co., Dayton, O.
 Reading Brick Machinery Co., Reading, Pa.
 Reliance Machine & Tool Works, 3333 Franklin av., St. Louis, Mo.
 Richmond Machine Works, Richmond, Ind.
 Rockwood Mfg. Co. (Flower Pot Machines), Indianapolis, Ind.
 Ross Keller Triple Pressure Brick Machine Co., Fullerton bldg., St. Louis, Mo.
 Scott Mfg. Co. (Pulverizers, Molds, etc.), Keokuk, Ia.
 Simpson Bros. (Moulds, Presses, etc.), Portsmouth, O.
 South Bend Machine Mfg. Co., South Bend, Ind.
 Standard Brick Machine Co. (Sand & Lime Brick Machinery), 114 Liberty, New York
 Standard Car & Foundry Co., Pittsburg, Pa.
 Steadman Foundry & Machine Works, Aurora, Ind.
 Steele, J. C. & Son (Automatic Cutting Tables, Dies, Crushers, Cars, Winding Drums, etc.), Statesville, N. C.

Stevenson Co., Wellsville, O.
 Tallcott, W. E. & Co., Croton-on-Hudson, N. Y.
 Tappin, Rice & Co. (Sewer Pipe Presses & Dry & Wet Pans), Akron, O.
 Thropp, Jno. E. Sons Co. (Rotary Machinery, etc.), Trenton, N. J.
 Tiffin Wagon Co., Tiffin, O.
 Turner, Vaughn & Taylor Co. (Clay Working), Cuyahoga Falls, O.
 Waldron, Chas. (Brick Machine Moulds), Haverstraw, N. Y.
 Wallace Mfg. Co., Frankfort, Ind.
 Walworth Run Foundry Co. (Brick Cars), 883 Empress, Cleveland, O.
 Wellington Machine Co., Wellington, O.
 Wenger, Geo. Machinery & Supply Mfg. Co., St. Louis, Mo.
 Wiles, A. M. & W. H. (Machinery & Supplies), Grassy Point, N. Y.
 Wilkes, Moses (Est. of), Trenton, N. J.
 Woolley Foundry & Mach. Co., Anderson, Ind.

Brick Mould Sanding Machines

COHOES IRON FOUNDRY & MACHINE CO., Cohoes, N. Y. (See adv. index, end of book)
 Horton Mfg. Co., Painesville, O.
 Newton, A. H., Haverstraw, N. Y.
 Waldron, Chas. ("Champion"), Haverstraw, N. Y.
 Wellington Machine Co., Wellington, O.

Brick Press Machines

AMERICAN CLAY MACHINERY CO., (Dry & Semi-Dry & Re-Press), Bucyrus, O., & Willoughby, O.
 Anderson Foundry & Machine Works, Anderson, Ind.
 Arnold-Creager Co. (Re-Press), New London, O., & 6th & Vine, Cincinnati, O.
 Baird, H. C. & Son, Parkhill, Ontario, Can.
BONNOT COMPANY, Canton, O. (See adv. index, end of book)
 Brewer, H. & Co., Tecumseh, Mich.
 Carnell, Geo. (Est. of) (Fire & Red), 1819 N 5th, Phila., Pa.
 Chambers Bros. Co. (Re-Pressed, etc.), 52d, below Lancaster av., Phila., Pa.

Chisholm, Boyd & White Co. (Dry Press), W 57th & Wallace, Chicago, Ill.
 Clearfield Machine Shops (Ltd.), (Fire Brick), Clearfield, Pa.
 Craycroft, Benj., Vandalia, Ill.
 Eastern Machinery Co., New Haven, Conn.
 Fate, J. D. Co., Plymouth, O.
 Fernholtz Brick Machinery Co. (Power & Hand), Boyle & Old Manchester avs., St. Louis, Mo.
 Freese, E. M. & Co., Gallon, O.
 Horton Mfg. Co. ("Hercules," "Standard" & "Ideal"), Painesville, O.
 Leader Mfg. Co. (Represses), Decatur, Ill.
 Madden & Co., Rushville, Ind.
 Martin, Henry, Brick Machine Mfg. Co., Lancaster, Pa.
 Means Foundry & Machine Co., Steubenville, O.
 Michigan Brick & Tile Machine Co. (Repress), Morenci, Mich.
 National Brick Machinery Co., 138 Wash'n, Chicago, Ill.

Ohio Ceramic Engineering Co. (Dry & Re-Press), Cleveland, O.
 Ohio Machine Co. (Repress), Middleport, O.
 Queen City Brick Machine Co., Traverse City, Mich.
 Raymond, C. W., Dayton, O.
 Reliance Machine & Tool Works, 3333 Franklin av., St. Louis, Mo.
 Ross-Keller Tripple Pressure Brick Machine Co. (Dry or Semi-Dry), Fullerton bldg., St. Louis, Mo.
 Scott Mfg. Co. ("Andrus"), Keokuk, Iowa
 Simpson Bros. (Fire Brick), Portsmouth, O.
 Steele, J. C. & Son (Represses), Statesville, N. C.
 Tallcott, W. E. & Co. (Soft Clay), Croton-on-Hudson, N. Y.
 Wallace Mfg. Co., Frankfort, Ind.
 Wellington Machine Co., Wellington, O.
 Wenger, Geo. Machinery & Supply Mfg. Co. (Dry Press, Stiff Mud, etc.), St. Louis, Mo.
 Wiles, A. M. & W. H. Co., Grassy Point, N. Y.
 Woolley Foundry & Machine Co., Anderson, Ind.

Brick Press Machines (Sand Lime)

National Brick Machinery Co. ("National" Rotary), 138 Wash'n, Chicago, Ill.

Brick Sanding Machines

(See Brick Mould Sanding Machines)

Bridge Operating Machinery

(See Draw Bridge Machinery)

Briquetting Machinery

Chisholm, Boyd & White Co., W 57th & Wallace, Chicago
 Commercial Artificial Fuel Co. (for Anthracite Culm, Lignite & Ores, etc.), Toledo, O.
 Mould, Henry S. Co., Empire bldg., Pittsburg, Pa.
 Traylor Engineering Co., 114 Liberty, New York
 Works, Allentown, Pa.
 United States Peat Fuel Co., Fort Dearborn bldg., Chicago, Ill.
 United States Rapid-Fire Gun & Power Co. (for Coal, Clay, etc.), Derby, Conn.

Broaching Machines

Burr, Jno. T. & Sons, 429 Kent av., Brooklyn, N. Y.
FREVERT MACHINERY CO., 18 Dey, New York. (See adv. index, end of book)
TUOHY BROS. CO., 95 Liberty, New York. (See adv. index, end of book)

Broom Corn Planting Machinery

Colton, G. D. & Co., Galesburg, Ill.
 Deere & Mansur Co. (Planters'), Moline, Ill.
 Gale Mfg. Co. (Planters'), Albion, Mich.
 Poole Broom Corn Machine Co., Wichita, Kan.

Broom Handle Machinery

Fay, J. A. & Egan Co., W. Cincinnati, O.
 Bentel & Margedant Co., Hamilton, O.
DEFIANCE MACHINE WORKS, Defiance, O. (See adv. index, end of book)
 Kline, Lewis T., Alpena, Mich.
 Ober Mfg. Co., Chagrin Falls, O.
 Trevor Mfg. Co., Lockport, N. Y.

Broom Machinery

Boyer, A. Broom Co., Galesburg, Ill.
 Cassard, Hamilton, Baltimore, Md.
 Hand Stitch Broom Sewing Machine Co., Pittsburgh Life bldg., Pittsburg, Pa.
 Mercantile Warehouse Co. (Steam Broom Sewing Machines), 53 Beach, New York
 Oatman & Toll, 55 Beach, New York
 Phillips, S. O. Schenectady, N. Y.
 Pocock, Oliver, 1042 Harriet, Cincinnati, O.

Brush Boring Machines

Waldron, Jno. Co., New Brunswick, N. J.

Brush Machinery & Tools

GRAMMES, L. F. & SONS, (Nailing, etc.), Allentown, Pa. (See adv. index, end of book)
 Pickering, M. J., 238 Arch, Phila., Pa.
 Young & Robinson, Frederick, Md.

Brush Nailing Machines

GRAMMES, L. F. & SONS, Allentown, Pa. (See adv. index, end of book)

Buckle Machinery

Baird Machine Co. (Wire), Oakville, Conn.
 Manville, E. J. Machine Co., Waterbury, Conn.
 Nilson, A. H. Machine Co. (Automatic), Bridgeport, Conn.
 Poole Engineering & Machine Co., Woodberry Station, Baltimore, Md.
SHUSTER, F. B. CO., New Haven, Conn. (See adv. index, end of book)
 Special Machinery Co. (Automatic Buckle Wire), Bridgeport, Conn.

Buckle Machines (Automatic)

Nilson, A. H. Machine Co., Bridgeport, Conn.
SHUSTER, F. B. CO., New Haven, Conn. (See adv. index, end of book)

Buckle Tongue Machines (Automatic)

Nilson, A. H. Machine Co., Bridgeport, Conn.
SHUSTER, F. B. CO., New Haven, Conn. (See adv. index, end of book)

Buckwheat Machinery

Huntley Mfg. Co. ("Monitor"), Silver Creek, N. Y.

Buffing & Polishing Machines

(See Lathes, Buffing & Polishing.)

Building Block Machinery

(See Clay Building Block Machinery; also Concrete Building Block Machinery)

Bulldozer or Bending Machines

(See also Forging Machines)

Ajax Mfg. Co., Cleveland, O.
 Williams, White & Co., Moline, Ill.

Burnishing Machines

Ohl, Geo. A. & Co., 157 Oraton, Newark, N. J.

Butchers' Machinery & Supplies

American Knife Co. (Cleavers & Tools), Baldwinville, N. Y.
 Bossert, Louis & Son (Blocks), Grand & Newtown Creek, B'klyn, N. Y.
 Brecht, Gus. V., Butchers' Supply Co., 1201 Cass av., St. Louis, Mo.
 Chambers Tool & Supply Co., 500 E Front, Cincinnati, O.
 Chatillon, Jno. & Sons (Complete Line), 85 Cliff, New York
 Christy Knife Co. (Family Cleaners), Fremont, Ohio
 Cincinnati Butchers' Supply Co., 1986 Central av., Cincinnati, O.
 Daemicke, Paul J. Co., 240 E Lake, Chicago, Ill.
 Dopp, H. Wm. & Son, 522 Ellicott, Buffalo, N. Y.

Ehrlich, H. & Son, St. Joseph, Mo.
Farwell, Ozmun, Kirk & Co., St. Paul, Minn.
Fay, J. A. & Egan Co., Cincinnati, O.
Foster Bros. & Chatillon Co., Fulton, N. Y.
Giant Lock Co., 49 Wood, Cleveland, O.
Gloekler, Bernard Co., 1129 Penn av, Pittsburg, Pa.

Huff Bros. Butchers' Supply Co., Decatur, Ill.
Hulbert, E. L. & Co., Bernardstown, Mass.
Koch Butchers' Supply Co., 1415 St. Louis av, Kansas City, Mo.

Mack & Co., Rochester, N. Y.
Means Foundry & Machine Co., Steubenville, O.
Murray Iron Works Co., Burlington, Ia.
Plumb, Fayette R. (Inc.) (Cleavers, Choppers & Knives), Fkd., Philadelphia, Pa.
Probeck, P. J. & Co., 227 Sheriff, Cleveland, O.
Randall, R. T. & Co., 333 N 2d, Phila., Pa.
St. Louis Butchers' Supply Co., 1537 N 15th, St. Louis, Mo.

Schmidt, C. & Co., John & Livingston, Cincinnati, O.

Scott Mfg. Co., Keokuk, Iowa
Silver Mfg. Co. (& Supplies, Lard & Tallow Presses, Ham Pumps, "Wagner" Storage Stuffers, etc.), Salem, O.

Smith, H. B. Machine Co., Smithville, N. J.
Smith's, John E. Sons Co. (Meat Choppers, Steam Kettles, Lard Mixers, etc.), Buffalo, N. Y.

Stevens, B. A. Co., Toledo, O.
Wolf, Sayer & Heller, Fulton & Peoria, Chicago, Ill.

Butchers' Saw Punching Machines

Nichols Bros., Greenfield, Mass.

Butchers' Skewer Machinery

Fay, J. A. & Egan Co., Cincinnati, O.
Smith, H. B. Machine Co., Smithville, N. J., & 121 Liberty, New York

Butt Drilling & Milling Machines

SHUSTER, F. B. CO., New Haven, Conn. (See adv. index, end of book)

Butter Dish Machinery

Johnson-Keyt Co., Lindsey, O.
Merritt Mfg. Co., Lockport, N. Y.
Saranac Machine Co. (Automatic & Stapling Mach'y), St. Joseph, Mich.

Butter Printing & Cutting Machines

Burrell, D. H. & Co. ("American"), Little Falls, N. Y.
Friday, S. B. & Co., Brandon, Wis.

Button Machinery

Barry Mfg. Co., Muscatine, Ia.
Bonney Vise & Tool Works (For Pearl Buttons), 3015 Chestnut, Phila., Pa.
Grimes & Harris (Horn), Leominster, Mass.
McCurdy, Burton Machinery Co., Amsterdam, N. Y.
Russel, Jno. W., Springfield, Mass.
Schott Bros., 364 B'way, N. Y., & Providence, R. I.
Waldron, John Co. (Ivory Button Machinery), New Brunswick, N. J.

Button Sewing Machines

Union Button Sewing Machine Co., 184 High, Boston, Mass.

Cabbage Machinery (Canners')

SPRAGUE CANNING MACHINERY Co., 42 River, Chicago, Ill. (See adv. on following page)

Cable Covering Machines

(See Wire & Cable Covering Machinery)

Cable Haulage Machinery

Superior Iron Wks., Superior, Wis.

Cabling & Armoring Machines

AITON MACHINE CO., 126 Liberty, New York. Works: Harrison, N. J. (See adv. index, end of book)

Calculating Machines

(See also Adding Machines)

Calenlagraph Co., 9 Maiden la, N. Y.
Dupligrath Co., 43 State, Detroit, Mich.
Hamburger, Felix ("Brunsoiga"), 78 5th av, New York
Mechanical Accountant, 8 Warren, Providence, R. I.
Morse, Herbert, Green bldg, Trenton, N. J.
Morse, T. Walsh Co., Trenton, N. J.
Morschhauser, W. A. ("Millionaire"), 1 Madison av, New York

Calendering Machines

AITON MACHINE CO., 126 Liberty, New York. Works: Harrison, N. J. (See adv. index, end of book)

Arthur Co., 188 Front, New York
Butterworth, H. W. & Sons Co. (Embossing), Phila., Pa.

CURRIER, CYRUS & SONS, Newark, N. J. (See adv. index, end of book)

Curtis & Marble, Worcester, Mass.

Downington Mfg. Co., Ltd., Downington, Pa.
Farrel Foundry & Machine Co., Ansonia, Conn.
Holyoke Machine Co. (Breaker, Friction, Web, etc.), Holyoke, Mass.

Kilburn, Lincoln & Co. (Inc.), Fall River, Mass.

Lowell Machine Shop, Lowell, Mass.

Norwood Engineering Co. (Breaker, Friction, Web, etc.), Florence, Mass.

Poole Engineering & Machine Co., Woodberry Sta., Baltimore, Md.

Rice, Burton & Fales Machine & Iron Co., Worcester, Mass.

Terbune, J. L., 164 Ward, Paterson

Textile Finishing Machinery Co. (Pressure & Friction), Providence, R. I.

Waldron, John Co., New Brunswick, N. J.

Watson Machine Co. (Embossing, Pressure & Friction, etc.), Paterson, N. J.

Calipering Machines

Rogers, Jno. M., Gloucester City, N. J.

Cam Cutting Machines

Manville Bros. Co., Waterbury, Conn.
Standard Machinery Co., Providence, R. I.

Can Beading Machines

NIAGARA MACHINE & TOOL WKS., Buffalo, N. Y. (See adv. index, end of book)

Can Body Forming Machines

American Can Co., 135 Adams, Chicago, Ill.
Ams, Max Machine Co., Mt. Vernon, N. Y.

Can Boxing Machines

SPRAGUE CANNING MACHINERY Co. ("Knapp," for Canners), 42 River, Chicago, Ill. (See adv. on following page)

Can Capping Machines

Sherman, S. F. ("Hawkins"), Utica, N. Y.

Can Cleaning & Washing Machines

Astoria Iron Works (Inc.) ("Jansen's" for Salmon Canneries, etc.), Astoria, Ore.
Link Belt Co. (Can Washing), W 39th & Stewart av, Chicago, Ill.

Can Filling Machines

Astoria Iron Works (Inc.) (For Salmon Canneries, etc.), Astoria, Ore.
Ayars Machine Co. ("King" or "Stevens," for Tomatoes, Apples, Peas, etc.), Salem, N. J.
Climax Machinery Co. ("Climax," Automatic for Milk), Indianapolis, Ind.
Huntley Mfg. Co. (For Beans, Berries, etc.), Silver Creek, N. Y.

SPRAGUE CANNING MACHINERY ("Moore & Bristol's," "Jersey Queen," "Stevens' King," for Tomatoes, Corn, etc.), 42 River, Chicago, Ill. (See adv. on following page)

Can Heading Machines

Ams, Max Machine Co. (Automatic Double Seamers), Mt. Vernon, N. Y.

Can Lacquering Machines

Burt Machine Co., Baltimore, Md.
SPRAGUE CANNING MACHINERY Co. ("Burts"), 42 River, Chicago, Ill. (See adv. on following page)

Can Lining Machines

Ams, Max Machine Co. (Adjustable, Round, Square, Covers, etc.), Mt. Vernon, N. Y.

Can Makers' Machinery

Adriance Machine Works (Soldering & Sanitary), 254 Van Brunt, Brooklyn, N. Y.
American Can Co., 135 Adams, Chicago, Ill.
Ams, Max Machine Co. (Air Tight Seam without Solder or Acid, etc.), Mt. Vernon, N. Y.
Astoria Iron Works (Inc.) ("E. K. & M." Can Body Making & Soldering), Astoria, Ore.
Ayars Machine Co., Salem, N. J.
Benedict, L. ("Leiger" Lockseam Body, Forming & Soldering Machines), 128 S Clinton, Chicago, Ill.

Blake, E. Johnson, Waterbury, Conn.

BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)

Consolidated Press & Tool Co., 96 N Clinton, Chicago, Ill.

Leffer, Chas. & Co., 63 Clymer, Brooklyn, N. Y.

McDonald Machine Co. (Automatic Lock Seamer, Can Tester, etc.), 3207 Shields av, Chicago, Ill.

NIAGARA MACHINE & TOOL WKS., Buffalo, N. Y. (See adv. index, end of book)

Scandinavian Can & Machine Co., Southwest Harbor, Me.

Slaysman & Co. (Automatic), 718 E Pratt, Baltimore, Md.

Sleeper Machine Co., 8 Exchange pl, Boston, Mass.

Stevenson & Co., 601 S. Caroline, Baltimore, Md.

Swaine, F. J. Co., St. Louis, Mo.

Union Can Co., San Francisco, Cal.

Utica Industrial Co. (Automatic Can Machinery), Utica, N. Y.

Wold, Torris & Co. ("Cameron" Lockseamer, Header, etc.), 66 N Jefferson, Chicago, Ill.

Can Polishing Machines

Hibbard, Wm. H. Mfg. Co., 79 Washington, Brooklyn, N. Y.

Can Scoring Machines

Ams, Max Machine Co. (Adjustable Power), Mt. Vernon, N. Y.

Can Seating Machines

American Can Co. (Vacuum), 135 Adams, Chicago, Ill.

Can Slitting Machines

Ams, Max Machine Co., Mt. Vernon, N. Y.

Can Tapping Machines

American Can Co., 135 Adams, Chicago, Ill.

Can Testing Machines

(See Testing Machines, Can.)

Can Wrapping Machines

Burt Machine Co., Baltimore, Md.

Cancelling Machines

Bright, H. V. (or Ticket Chopper), 72 Clarke-wood av, Cleveland, O.
Cummins, B. F. Co. (Plain & Dating, etc.), 42 W Jackson boul, Chicago, Ill.

Candle Machinery

Blettner, Jos. B. & Co., 1976 Central av, Cincinnati, O.
 Brewer, Wm. W., Troy, N. Y.
 Brown & Patterson, 33 Marcy av, Brooklyn, N. Y.
 Dopp, H. W. & Son, Buffalo, N. Y.
 Homan & Co. (Molds, etc.), 214 E 7th, Cincinnati, O.
 Houchin & Huber, 39 53d, Brooklyn, N. Y.

Candy Floss Machinery

Empire Candy Floss Machinery Co., Bloomfield, N. J.

Candy Machinery

(See Confectioners' Machinery)

Candy Vending Machines

(See Vending Machines)

Cane-Seat Chair Machinery

(See also Chair Machinery.)

Goodspeed Machine Co. (Chair Seat Grooving Machinery), Winchendon, Mass.
 Purdy Machine Co. (Also Wood Seat), Ghent, O.
 Remington Machine Co., Wilmington, Del.
 Scow Bay Iron & Brass Works, Astoria, Ore.
 Sprague Canning Machinery Co., Hoopestown, Ill., & 42 River, Chicago, Ill.
 Willbor, A. Shea (Sardine), Eastport, Me.

Cane Sugar Machinery

(See Sugar Machinery. For page number consult Index of Contents.)

Canning Machinery

Ams, Max Machine Co. (For making & Selling Tin Cans), Mt. Vernon, N. Y.
 Astoria Iron Works (Inc.), Astoria, Ore.
 Ayars Machine Co., Salem, N. J.
 Burpee & Letson (Ltd.), Bellingham, Wash.
 Burt Machine Co., Baltimore, Md.
 Conant, R. O., Co., Portland, Me.
 Cox Bros. & Co., Bridgeton, N. J.
 Hermetic Closure Co. (for Cold Products in Glass by Vacuum Process), 36 La Salle, Chicago, Ill.
 Huntley Mfg. Co. ("Monitor"), Silver Creek, N. Y.
 Lang, E. M. Co. (Soldering Machines, Capping Irons, Solder, Presse, etc.), Portland, Me.
 Lewis, E. J., Middleport, N. Y.
 McDonald Machine Co., 3949 Wentworth av, Chicago, Ill.

NIAGARA MACHINE & TOOL WKS., Buffalo, N. Y. (See adv. index, end of book)

Safe Glass Co. (For Cold Products in Glass by Vacuum Process), Upland, Ind.
 Sherman, Sanford F., Utica, N. Y.

Sinclair-Scott Co., cor Wells & Patapsco, Baltimore, Md.

SPRAGUE CANNING MACHINERY Co., 42 River, Chicago, Ill. (See adv. below)

*Canting Machines

ALLIS-CHALMERS CO. (Overhead), Milwaukee, Wis. (See adv. index & branch offices, end of book)

Capping Machines

BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)
 Cox Bros. & Co., Bridgeton, N. J.
 Dicke Tool Co., Downers Grove, Ill.
 Lang, E. M. Co., Portland, Me.
SPRAGUE CANNING MACHINERY Co. (For Cannerys), 42 River, Chicago, Ill. (See adv. below)

Capsule Machinery

Colton, Arthur, 184 Brush, Detroit, Mich.
 Hall Capsule Co., Covington, Ky.
 Mulford, H. K. Co., 412 S 13th, Phila., Pa.

Car-Boring Machines

American Wood Working Machinery Co., Rochester, N. Y., West st. bldg, N. Y.
 Bentel & Bargedant Co. (Heavy Vertical, 3 & 6 Spindle), Hamilton, O.
 Fay, J. A. & Egan Co., Front & John, Cincinnati, O.
 Greenlee Bros. & Co., Railway Exchange bldg, Chicago, Ill. Factory: Rockford, Ill.
 Powers, L. & Co. (Est. of), 22 S 23d, Phila., Pa.

Car Box Boring Machines

Detrick & Harvey Machine Co., 508 E Preston, Baltimore, Md.
 Niles-Bement-Pond Co., 111 B'way, New York
 Pittsburg Machine Tool Co., Allegheny, Pa.

Car Box Grinding Machines

Diamond Machine Co., Providence, R. I.

Car Dumping Machines

(See Car Dumpers.)

Car Link & Pin Machines

National Machinery Co., Tiffin, O.

Car Spring Coiling Machines

(See also Spring Coiling Machines)
 (Also Wire Spring Coiling Machines)

Coulter & McKenzie Machine Co., Bridgeport, Conn.

Car Wheel Boring Machines

Baker Bros., Toledo, O.
 Betts Machine Co., Wilmington, Del.
 Bickford Drill & Tool Co., Front & Pike, Cincinnati, O.
 Bickford, H. & Co., Lakeport, N. H.
 Newton Machine Tool Works, Phila., Pa.
 Niles-Bement-Pond Co., 11 B'way, New York
 Pittsburg Machine Tool Co., Allegheny, Pa.
 Prentice Bros., Worcester, Mass.
 Putnam Machine Co., Fitchburg, Mass.
 Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Phila., Pa.

Car Wheel Cleaning Machines

WHITING FOUNDRY EQUIPMENT Co., Harvey, Ill. (See adv. index & branch offices, end of book)

Car Wheel Molding Machines

(See also Molding Machines, Foundry)
 Pridmore, Henry E., 918 S Rockwell, Chicago, Ill.

Car & Carriage Spring Machinery

Coulter & McKenzie Machine Co. (Car), Bridgeport, Conn.
 Evans', Jno. Sons, 13th & Buttonwood, Phila., Pa.

Carbon Cutting Machines

Lundin Electric & Machine Co. (Electrical, with Switch), 10 Thacher, Boston, Mass.

Carbon Machinery

BARTLETT, C. O. & SNOW CO., French nr Columbus, Cleveland, O. (See adv. index, end of book)
BROWN, A. & F. CO., 25 Dey, New York. Works: Elizabethport, N. J. (See adv. index, end of book)

Carbon Paper Machinery

Waldron, Jno. Co., New Brunswick, N. J.

Carbonating Machinery

American New System Carbonating & Dispensing Apparatus Co., 407 Broome, New York
 Automatic Carbouator Mfg. Co., Minneapolis, Minn.
 Hecla Compressed Gas Co., Chelsea, Mass.
 Liquid Carbonic Co., 67 N Wells, Chicago, Ill.

Cardboard Sawing Machines (Wood)

GRAMMES, L. F. & SONS (Combination Rip & Cross-Cut), Allentown, Pa. (See adv. index, end of book)

Card Cutting Machines

(See also Card Cutting Machines, Textile.)
 Dietz Machine Works (Rotary, for Jacquard, Index, Commercial & Slot Machine Cards & R. R. Tickets), 126 Fontain, Phila., Pa.
GRAMMES, L. F. & SONS ("Handy" Hand, etc.), Allentown, Pa. (See adv. index, end of book)
 Jacques, Jno. & Son, Worcester, Mass.
 Marshall, Son & Co., 226 Purchase, Boston, Mass.
 Robinson, Jno. T. Co., Hyde Park, Mass.

Carpet Cleaning Machinery

Cleveland Laundry Machinery Co., 124 Track, Cleveland, O.
 Reed Mfg. Co. (Carpet Cleaning Wheels), Springfield, O.

Carpet Sewing Machines

(See Sewing Machines)

SPRAGUE CANNING MACHINERY COMPANY

MANUFACTURERS OF

CANNING MACHINERY AND SUPPLIES,

42 River Street,

CHICAGO, ILL.

Carriage Builders' Machinery

(See also Woodworking Machinery; also Hub, Spoke & Rim Machinery)

Abbott & Co. (Hub Bored), Hudson, Mich.
American Wood Working Machinery Co., Rochester, N. Y., West st. bldg. New York
Bentel & Mergedant Co., Hamilton, O.
Cordesman, Meyer & Co., 55 Central av. Cincinnati, O.
Cordesmann, Rechlin Co., 25 Butler, Cincinnati, O.

DEFIANCE MACHINE WORKS, Defiance, O. (See adv. index, end of book)

Fay, J. A. & Egan Co., cor Front & John, Cincinnati, O.

Greeplee Bros. & Co., Railway Exchange bldg. Chicago, Ill. Factory, Rockford, Ill.

HEARTLEY MACHINE, VARIETY Iron & Tool Works, Toledo, O. (See adv. index, end of book)

Kane & Roach, Syracuse, N. Y.
Klotz Machine Co., Sandusky, O.
Smith, Philip Co., Sidney, O.
Williams, White & Co., Moline, Ill.

Carriage Spring Machinery

(See Car & Carriage Spring Machinery)

Cartridge Machines

Blake & Johnson, Waterbury, Conn.
Manville, E. J. Machine Co., Waterbury, Conn.
Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.

Carving Machines

(See Wood Carving Machines)

Carving Machines (Corner Block)

American Wood Working Machinery Co., Rochester, N. Y., West st. bldg. New York
Fay, J. A. & Egan Co., Cincinnati, O.
Smith, H. B. Machine Co., Smithville, N. J., & 121 Liberty, New York

Cast Iron Pipe Cutting Machines

Smith, A. P. Mfg. Co., Newark, N. J.

Casting Machines

(See Sand Molding Machines)

Catsup Finishing Machines

SPRAGUE CANNING MACHINERY

Co. (For Cannery), 42 River, Chicago, Ill. (See adv. on preceding page)

Celluloid Working Machinery

Cook, F. H. & Co., Leominster, Mass.

Cement Brick Machines

(See also Concrete Building Block Machinery)

American Foundry Co., Leipsic, O.
Besser Mfg. Co., Alpena, Mich.
Cement Machinery Co., Jones bldg. Jackson, Mich.

Concrete Machinery Co. (for Sand-Cement Brick), Majestic bldg. Detroit, Mich.

Co-Operative Foundry Co., Junction & Hamilton avs. Detroit, Mich.

Dykema Co., Grand Rapids, Mich.
Emery, J. H., Bay City, Mich.

Helm Brick Machine Co. ("Helm," Sand Cement Process), Traverse City, Mich.

Moore Plow & Implement Co., Greenville, Mich.
Peerless Brick Machine Co., Minneapolis, Minn.

Queen City Brick Machine Co. ("The Helm Press, Travers City, Mich.

Runyan Concrete Machinery Co., Cleveland, O.
Schwab, R. J. & Sons Co., Milwaukee, Wis.

Seaman's Cement Brick Machine Co., Grand Rapids, Mich.

Simplex Mfg. Co. ("Simplex"), Jackson, Mich.

United Cement Machinery Mfg. Co., Columbus, O.

Cement Machinery

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. on following page; branch offices, end of book)

AMERICAN CLAY MACHINERY CO., Bucyrus, O., & Willoughby, O.

Barnard & Leas Mfg. Co. (Cement Packers), Moline, Ill.

BARTLETT, C. O. & SNOW CO., French nr Columbus, Cleveland, O. (See adv. index, end of book)

BETHLEHEM FOUNDRY & MACHINE Co., Front, South Bethlehem, Pa., & 149 B'way, New York. (See adv. index, end of book)

BONNOT COMPANY, Canton, O. (See adv. index, end of book)

Bradley Pulverizer Co. ("Griffin Mill"), 92 State, Boston, Mass.

DODGE MFG. CO., Mishawaka, Ind. (See adv. index & branch offices, end of book)

Ehram, J. B. & Sons Mfg. Co., Enterprise, Kan.

Emerick, Geo. S. (Crushers, Dryers), Nazareth, Pa.

Great Western Mfg. Co., Leavenworth, Kan.

Howes, S. Co. (Cement Packers), Silver Creek, N. Y.

Kent Mill Co. (Pulverizers, etc.), 170 B'way, N. Y.

Martin, Wm. R., Lancaster, Pa.

Mosser, W. F. & Son (Rotary Crushers), Allentown, Pa.

Newell Mfg. Co. (Cement Mills), 149 B'way, New York

Prosser, Thos. & Son, 15 Gold, New York

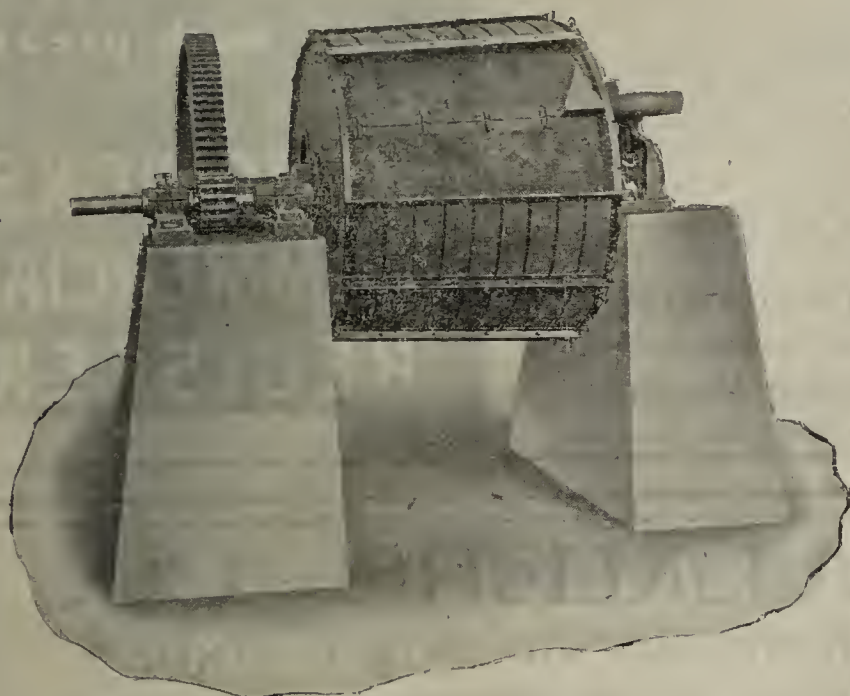
Raymond Bros. Impact Pulverizer Co., 143 Ladin, Chicago, Ill.

REEVES BROS. CO. (for Wet or Dry Process), Alliance, O. (See adv. index, end of book)

ROBINS CONVEYING BELT CO. (Belt Conveyors), 19 Park row, New York. (See adv. index, end of book)

Schule, F. H. Co. (Scales), 27 Thames, New York

SMIDTH, F. L. & CO., 39 Cortlandt, New York. (See adv. below)



LINDHARD PATENT KOMINUTER

KOMINUTERS for granulating.

The latest and highest development in slow speed grinders. Carries 50 % more balls than a ballmill of the same general dimensions; has 52 % more screening surface, and gives 65 % to 85 % more capacity per horse power.

TUBEMILLS for pulverizing.

The Davidsen patented tubemill is acknowledged the world over for its superiority of construction, highest efficiency, highest economy and highest capacity.

ENGINEERING work confined to the cement industry exclusively for the past twenty-five years. Examinations of Properties.

Plans and Specifications.

F. L. SMIDTH & CO.

41 Cortlandt St.

NEW YORK

STROUD, E. H. & CO., 36 La Salle.
Chicago, Ill. (See adv. index, end of book)
Sturtevant Mill Co., Clayton & Park, Dor., Bos-
ton, Mass.
Thropp, John E. Sons Co., Trenton, N. J.
Traylor Engineering Co., 114 Liberty, New York
Works: Allentown, Pa.
Treadwell, M. H. & Co., 90 West, New York.
Works: Lebanon, Pa.
United Iron Works Co. (Cooling Towers, Sturry
Tanks, Pug Mills, Slacking Machines, etc.),
Springfield, Mo.
Vulcan Iron Works, Wilkes-Barre, Pa.
Walker & Elliott (Mixers), Wilmington, Del.
West Pulverizing Machine Co., Jersey City,
N. J.

Cement Moulding Machines

(See Concrete Building Block Machinery)

Cement Post Machinery

Cement Machinery Co., Jones hldg, Jackson,
Mich.
Economy Cement Post Machinery Co. ("Econ-
omy"), Leslie, Mich.

Cement Roofing Tile Machinery

Diamond Cement Machine Co., Deshler, O.

Cement Sewer Pipe Machinery

Besser Mfg. Co., Alpena, Mich.
Wilson & Baillie Mfg. Co., 85 9th, Brooklyn,
New York

Cement Shingle Machinery

Wickes Bros., Saginaw, Mich.

Cement Slacking Machines

United Iron Works Co., Springfield, Mo.

Cement Testing Machines

(See Testing Machines, Cement.)

Cement Weighing Machines (Automatic)

Avery Scale Co. ("Avery"), North Milwaukee,
Wis.

Centering Machines

Binghampton Machine Tool Works, Bingham-
ton, N. Y.

FREVERT MACHINERY CO., 18 Dey,
New York. (See adv. index, end of book)

Heathcote, John & Son, Providence, R. I.
Hendey Machine Co., Torrington, Conn.

Hurlbut-Rogers Machine Co., So. Sudbury,
Mass.

Kemp Smith Mfg. Co. (Shaft), Linus & Wood-
ward, Milwaukee, Wis.

National Machine Co., Hartford, Conn.
Nazel Engineering & Machine Works, 1042
Ridge av., Phila., Pa.

New Haven Mfg. Co., New Haven, Conn.
Niles-Bement-Pond Co., 111 B'way, New York

Phoenix Mfg. Co., Hartford, Conn.
Pratt & Whitney Co., Hartford, Conn.
TUOHY BROS. CO., 95 Liberty, New
York. (See adv. index, end of book)
Wells, F. E. & Son Co., Greenfield, Mass.
Whiton, D. E. Machine Co., New London, Conn.

Centrifugal Machines (Labora- tory)

Louergan, J. E. & Co. ("Leffman's"), 211 Race,
Phila., Pa.

Cereal Roasting Machines

(See Coffee, Peanut, etc., Roasting Machines)

Chain Making Machinery

BLISS, E. W. CO. (Bicycle), 19
Adams, Brooklyn, N. Y. (See adv. index,
end of book)

Garvin Machine Co. (Bicycle), 137 Varick, New
York

Turner, Vaughn & Taylor Co., Cuyahoga Falls,
Ohio

Waterbury Farrel Foundry & Machine Co.,
Waterbury, Conn.

Chain Mining Machines

Goodman Mfg. Co., Halsted & 48th pl, Chicago
Morgan Gardner Electric Co., 2632 Shields av,
Chicago

SULLIVAN MACHINERY CO. (Elec-
tric), Railway Exchange bldg, Chicago, Ill.
See adv. index & branch offices, end of book)

Chain Testing Machines

(See Testing Machines, Chain)

Chair Machinery

(See also Cane-Seat Chair Machinery)

American Wood Working Machinery Co., Roches-
ter, N. Y., & West St bldg, New York

Bancroft, Frank H., 210 N Main, Gardner,
Mass.

Chase Turbine Mfg. Co. (Chair Back Machines),
Orange, Mass.

Cordesman, Rechin Co., 25 Butler, Cincinnati,
Fay, J. A. & Egan Co., Cincinnati, O.

Gardner Machine Works (E. N. & W. H.
Hobby, Prop's), Gardner, Mass.

Goodspeed Machine Co., Winchendon, Mass.

Jenkins Machine Co., Sheboygan, Wis.

McKnight, L. G. & Son, Gardner, Mass.

Nash, J. M. (Special), 129 Ferry, Milwaukee,
Purdy Machine Co., Ghent, O.

Sawin, Edw. H., Gardner, Mass.

Whitney, Baxter D. & Son, Winchendon, Mass.

Chamfering & Crozing Machines

Putnam, D. C. & Co., Lyons, N. Y.

Channeling Machines

(See Stone Channeling Machines.)

Charging Machines (Open Hearth)

Alliance Machine Co., Alliance, O.
American Furnace & Machine Co., Pittsburg,
Pa.

Hogg, Geo. A. I. & S. Foundry Co., Pittsburg,
Pa.

MORGAN ENGINEERING CO. (For
Billets, Blooms, etc.), Alliance O. (See
adv. index, end of book)

WELLMAN - SEEVER - MORGAN CO.
("Wellman" Open Hearth Charging Ma-
chines & Boxes), Cleveland, O., & Akron, O.

(See adv. index, end of book)

Cheese Box Machinery

Goo & Hopkins, Delavan, N. Y.
Jones, Frank L., Utica, N. Y.
Merritt Mfg. Co., Lockport, N. Y.
Oakes & Burger, Cattaraugus, N. Y.

Cheese Factory Machinery

Burrell, D. H. & Co., Little Falls, N. Y.
Creamery Package Mfg. Co., 182 E Kinzie, Chi-
cago, Ill.

Fargo Creamery Supply House, Lake Mills, Wis.

Jones, Frank L., Utica, N. Y.

Chewing Gum Machines

Mills, Thos. & Bro., 3108 N 4th, Phila., Pa.
Savage Bros. Co., 42 Michigan, Chicago, Ill.

Chicory Planting & Harvesting Machinery

Vine & Root Machinery Co., Port Huron, Mich.

**When writing to firms
whose names appear
in this book please
mention**

**HENDRICKS'
COMMERCIAL
REGISTER.**

ALLIS-CHALMERS CO.

CEMENT MAKING MACHINERY OF EVERY KIND

FOR BOTH THE WET AND THE DRY PROCESS.



ROCK BREAKERS
CRUSHERS
DRYERS

ELEVATORS
CONVEYORS
MIXERS

BALL MILLS
TUBE MILLS
KILNS

We also build complete Crushing and Ballast Plants of any capacity
and for all purposes. ∴ ∴ Write for Plans and Estimates.

COMPLETE POWER AND ELECTRICAL EQUIPMENTS FURNISHED WHEN REQUIRED.

Chocolate Dipping Machines

Annen Candy & Biscuit Co., Green Bay, Wis.
Champlion Candy Machine Co., 3257 Old York
rd, Phila., Pa.

Chocolate Machinery

American Chocolate Machinery Co., 106 E 16th,
New York
Carey, Saml. (Complete Plants), 17 State, New
York, N. Y.
Holmes & Blanchard Co., 39 Washington N.,
Boston, Mass.
Houchln & Huber, 35 53d, Brooklyn, N. Y.
Ross, Chas. & Son Co., 148 Classon av, Brook-
lyn, N. Y.

Chuckling Machines

American Tool Works Co., Cincinnati, O.
Baker Bros., Toledo, O.
Beckford, H. & Co., Lakeport, N. H.
Brown & Sharpe Mfg. Co., Providence, R. I.
Bullard Machine Tool Co., Bridgeport, Conn.
Colburn Machine Co., Rochester, N. Y.
Davis, W. P. Machine Co., Rochester, N. Y.
Fay & Scott, Dexter, Me.
Garvin Machine Co., Spring & Varick, New
York
Hamilton Machine Tool Co., Hamilton, O.
Johnson, I. H., Jr., Co. (Inc.), Philadelphia, Pa.
Jones & Lamson Machine Co., Springfield, Vt.
King Machine Tool Co., Cincinnati, O.
Potter & Johnston Machine Co., Pawtucket,
R. I.
Pratt & Whitney Co., Hartford, Conn.
Quint, A. D. (Vertical), Hartford, Conn.
Rogers Machine Tool Co., Alfred, N. Y.
Warner & Swasey Co., Cleveland, O.
Whitcomb-Blaisdell Machine Tool Co., Worces-
ter, Mass.

Chuckling & Turning Machines (Automatic)

Hartford Machine Screw Co., Hartford, Conn.
Niles-Bement-Pond Co., 111 B'way, New York
Potter & Johnson Machine Co., Pawtucket, R. I.
Pratt & Whitney Co., Hartford, Conn.

Cider & Wine Making Machinery

(See Wine Making Machinery)

Cigar Box Machinery

Bentel & Margedant Co., Hamilton, O.
Dolg, Wm. S. (Box Nailing, etc.), 54 Franklin,
Brooklyn, N. Y.
GRAMMES, L. F. & SONS, Allentown,
Pa. (See adv. index, end of book)
Shirk, P. E., Blue Ball, Pa.

Cigar Machinery

Ermold, E. (Branding Machines), 652 Hudson,
N. Y.
GRAMMES, L. F. & SONS, Allentown,
Pa. (See adv. index, end of book)
Liberman, Isadore, 223 S 5th, Phila., Pa.
Miller, Dubrul & Peters Mfg. Co. (& Moulds,
etc.), Cincinnati, O.
National Progress Bunching Machine Co., 341 E
59th, New York
New Jersey Machine Co., 120 Pacific, Newark,
N. J.
New York Pneumatic Cigar Rolling Co., 102
Chambers, New York
Peeples, Jno. A., Mfg. Co., Lancaster, Pa.
Pittsburg Cigar Machine Co., Pittsburg, Pa.
Strieder, J. W. (Branding), 178 Ruggles, Bos-
ton, Mass.

Cigarette Box Machines

Dietz Machine Works, 126 Fountain, Phila., Pa.

Cigarette Machinery

Columbla Machine Works & Mfg. Co., 129 W
32d, New York
Comas Machine Co., 85 Cedar, N. Y.
Miller, Dubrul & Peters Mfg. Co., Cincinnati,
Ohio
Rabell, Prudencio Cigarette Machine Co., 91
Wall, New York
Winston Cigarette Machine Co., Winston-Salem,
N. C.

Circle & Oval Machines

Grant, Hugh, 62 Commonwealth av., Cleveland,
O.

Circular Folding Machines

Leffler, Charles & Co. (Used in Packing Baking
Powder, Medicines, etc.), 63 Clymer, Brook-
lyn, N. Y.

Circular Metal Sawing Machines

Western Tool Wks. (For metal & hard fibre,
etc.), Galesburg, Ill.

Circular Stone Sawing Machines

Lincoln Iron Works ("Columbian" for Soft Stone
or Slate), Rutland, Vt.
Patch, F. R. Mfg. Co., Rutland, Vt.

Circular Wood Sawing Machines

American Steam Pump Co., Battle Creek, Mich.
Atlantic Works (Inc.), 2821 Oakford, Phila., Pa.
Bentel & Margedant Co. (Re-Saws), Hamilton,
Ohio
Cordesman, Meyer & Co., 55 Central av., Cin-
cinnati, Ohio
Fay, J. A. & Egan Co., Cincinnati, O.
Kidder, R. E. (for Ripping & Cross Cutting),
Worcester, Mass.
Spangler Mfg. Co., York, Pa.

Clapboard Machinery

LANE MFG. CO., Montpelier, Vt.
(See adv. index, end of book)
Union Iron Works, Bangor, Me.

Clay Building Block Machinery

(See also Brick Machinery, also Brick Press
Machines.)

American Clay Machinery Co., Bucyrus, O., &
Willoughby, O.
BONNOT COMPANY, Canton, O. (See
adv. index, end of book)
Brewer, H. & Co., Tecumseh, Mich.
Freese, E. M. & Co., Gallon, O.
Michigan Brick & Tile Machine Co., Morenci,
Mich.
Turner, Vaughn & Taylor Co., Cuyahoga Falls,
O.

Clay Filtering Machinery

Crossley Mfg. Co., Trenton, N. J.

Clay Grinding Machines

BROWN, A. & F. CO. ("Cogs well"),
25 Dey, New York. Works: Elizabethport,
N. J. (See adv. index, end of book)
Chambers Bros. Co., 52d, below Lancaster av,
Phila., Pa.
Crossley Mfg. Co., Trenton, N. J.
Fernholtz Brick Machinery Co., Boyle & Old
Manchester avs, St. Louis, Mo.
Rockwood Mfg. Co., Indianapolis, Ind.
Scott Mfg. Co., Keokuk, Ia.

Clay Tempering Machinery

Carnell, Geo. (Est. of), 1819 N. 5th, Phila., Pa.

Clay Washing Machinery

Crossley Mfg. Co., Trenton, N. J.
Raymond, C. W. Co., Dayton, O.

Clay Working Machinery

(See Brick Machinery.)

Cleaning Machinery

(See Grain Cleaning & Grading Machinery.)

Clock Machinery

Ames, B. C. & Co., Waltham, Mass.
Blake & Johnson, Waterbury, Conn.
Cross & Spiers Machine Co. (Automatic), Wa-
terbury, Conn.
Waltham Machine Works, Waltham, Mass.

Closing Machines for Friction Top Cans

American Can Co., 135 Adams, Chicago, Ill.

Closing Machines for Steel Lead Kegs

American Can Co., 135 Adams, Chicago, Ill.

Cloth Room Machinery

(See Textile Machinery; for page number con-
sult Index of Contents)

Clothes Drying Machinery

(See Laundry Dryers.)

Clothes Pin Machinery

Humphrey Machine Co., Keene, N. H.
Goodspeed Machine Co., Winchendon, Mass.
Stauffer, Geo. E., E. Stroudsburg, Pa.

Coal Breaker Machinery

Finch Mfg. Co., Scranton, Pa.
Grant Iron Works, Mahoney City, Pa.
Milholland, J. & B. Co., 718 5th av., Pitts-
burg, Pa.

Coal Crushing Machinery

(See Crushers, Coal.)

Coal Cutting Machines

GENERAL ELECTRIC CO. (Elec-
tric), Schenectady, N. Y., & 44 Broad, New
York. (See adv. index & branch offices, end
of book)
Goodman Mfg. Co. (Electric), Halsted & 48th
pl, Chicago
INGERSOLL-RAND CO. ("Radialaxe"
& "New Ingersoll"), 11 B'way, New York.
(See adv. index & branch offices, end of
book)
Morgan-Gardner Electric Co. (Electric), 2640
Shields, av, Chicago, Ill.
Prox, Frank Co. (Electric), Terre Haute, Ind.
SULLIVAN MACHINERY CO., (Pick
Machines, Compressed Air), Railway Ex-
change bldg., Chicago, Ill. (See adv. index
& branch offices, end of book)
Whitcomb, Geo. D. Co., 86 Ohio, Chicago, Ill.

When writing to firms
whose names appear
in this book please
mention

HENDRICKS'
DIRECTORY.

Coal Mining Machinery

(See also Mining Machinery.)

Aetna Foundry & Machine Co. (Hoisting Outfits, etc.), Springfield, Ill.

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch, end of book)

BALANCED CABLE CRANE CO., THE, 135 Williams, New York. (See adv. opp. last page of Index of Contents)

Bartlett, A. F. & Co., Saginaw, Mich.

Eagle Iron Works, Des Moines, Ia.

Ellison, Wm. & Sons Mfg. Co., St. Louis, Mo.

Exeter Machine Works, Pittston, Pa.

Finch Mfg. Co., Scranton, Pa.

Goodman Mfg. Co. (Electric), Halsted & 48th pl. Chicago, Ill.

Grant Iron Works (Mine & Breaker Machinery), Mahoney City, Pa.

INGERSOLL - RAND CO., 11 B'way, New York. (See adv. index & branch offices, end of book)

JEFFREY MFG. CO., Columbus, O. (See adv. index & branch offices, end of book)

Milholland, J. & J. B. Co., Tunnel & 5th av., Pittsburgh, Pa.

Morgan-Gardner Electric Co., 2640 Shields av., Chicago, Ill.

Mt. Carmel Iron Works, Mt. Carmel, Pa.

Prox, Frank Co., Terre Haute, Ind.

Scaife Foundry & Machine Co., Pittsburg, Pa.

SULLIVAN MACHINERY CO., Rail- way Exchange bldg, Chicago, Ill. (See adv. index & branch offices, end of book)

Tamaqua Mfg. Co., Tamaqua, Pa.

Vulcan Iron Works, Wilkes-Barre, Pa.

Wagner-Palmros Mfg. Co., Fairmont, W. Va.

Coal Mining Machinery (Electric)

(See also Locomotives, Electric Mining.)

GENERAL ELECTRIC CO., Schenec- tady, N. Y., & 44 Broad, N. Y. (See adv. index & branch offices, end of book)

Goodman Mfg. Co., Halsted & 48th pl, Chicago, Ill.

JEFFREY MFG. CO., Columbus, O. (See adv. index & branch offices, end of book)

Morgan-Gardner Electric Co., 2640 Shields av., Chicago, Ill.

Ottumwa Iron Works, Ottumwa, Ia.

WESTINGHOUSE ELECTRIC & MFG. Co., Pittsburg, Pa. (See adv. index & branch offices, end of book)

Coal Shearing Machines

INGERSOLL - RAND CO., 11 B'way, New York. (See adv. index & branch offices, end of book)

SULLIVAN MACHINERY CO. (A Ver- tical Coal Pick Machine), Railway Exchange bldg, Chicago, Ill. (See adv. index & branch offices, end of book)

Coal Washing Machinery

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

American Concentrator Co. ("New Century"), Joplin, Mo.

Comstock, Geo. S. (Also for Ore Washing), Mechanicsburg, Pa.

Heyl & Patterson, 51 Water, Pittsburgh, Pa.

JEFFREY MFG. CO., Columbus, O. (See adv. index & branch offices, end of book)

Link Belt Co., W 39th cor Stewart av., Chicago, Ill., & 299 B'way, New York

Pittsburg Coal Washer Co., Pittsburg Pa.

Scaife Foundry & Machine Co., Pittsburg, Pa.

Stroh, W. H., Mauch Chunk, Pa.

Tamaqua Mfg. Co., Tamaqua, Pa.

Coal & Ore Handling Machinery

(See also Conveyors, Coal.)

Alliance Machine Co., Alliance, O.

BALANCED CABLE CRANE CO., THE, 135 William, New York. (See adv. opp. last page of index of contents)

BARTLETT, C. O. & SNOW CO., Cleveland, O. (See adv. index, end of book)

BROWN HOISTING MACHINERY CO., (Coal Storage, Coal Unloaders, Car Dump-

ers, etc.), Cleveland, O., & 26 Cortlandt,

New York. (See adv. index, end of book)

Browning Engineering Co. (Coal Unloaders,

Car Dumps, etc.), Cleveland, O.

Buhl Malleable Co., Detroit, Mich.

Caldwell, H. W. & Son, Denver Engineering

Wks. Co., Denver Colo., Western av & 17th,

Chicago, Ill.

CARLIN'S, THOS. SONS CO., Alle- gheny, Pa. (See adv. index, end of book)

Carse Bros. Co. (Tramming Plants, etc.), 64

Wabash av, Chicago, Ill.

Demmler, Wm. & Bro., Kewanee, Ill.

Denver Engineering Works Co., Denver, Col.

Dodge Coal Storage Co., Nicetown, Phila., Pa.

Exeter Machine Works, Pittston, Pa.

FAIRBANKS, MORSE & CO., Frank- lin & Monroe, Chicago, Ill. (See adv. in-

dex & branch offices, end of book)

Haiss, Geo. Mfg. Co., 141st & Rider av, New

York

HAYWARD CO., THE, 99 Cedar, New

York. (See adv. index, end of book)

Helmick Foundry & Machine Co., Fairmont,

W. Va.

Hoover & Mason, 9 Jackson boul., Chicago, Ill.

Hoshor-Platt Co., 120 Liberty, New York

Howe Scale Co., of Illinois, 1315 Wabash av.,

Chicago, Ill.

Hunt, C. W. Co., 45 B'way, N. Y. Works,

West New Brighton, S. I., N. Y.

Interstate Engineering Co. (Complete Plants),

Bedford, O.

JEFFREY MFG. CO., Columbus, O. (See adv. index & branch offices, end of book)

KOPPEL, ARTHUR CO., 68 Broad, New York. (See adv. index & branch offices, end of book)

LAMBERT HOISTING ENGINE CO., Main Office & Works, 115-121 Poinier, New-

ark, N. J. (See adv. index & branch offices, end of book)

LIDGERWOOD MFG. CO., 96 Liberty, New York. (See adv. index & branch offices, end of book)

THE "LIFE-AND-DEATH" DEPARTMENT OF YOUR BUSINESS.

You doubtless believe in specialization. You have an experienced man for the machine shop; you hire a foundry expert to start things off in the foundry; before you draw up a form of contract you consult a lawyer; you get an expert accountant to devise your system of book-keeping; when you are sick you send for a physician.

You know that you cannot use your own brains for everything, and that your own experience does not cover everything. You therefore depend for the successful conduct of your business upon YOUR SKILL IN BUYING BRAINS.

The life-and-death department of your business is the sales department. When sales stop the smoke ceases to pour out the chimney and the wheels quit going 'round. But an essential antecedent to selling is making your products and their merits known, CREATING "PSYCOLOGICAL CONDITIONS" IN THE MINDS OF YOUR POSSIBLE CUSTOMERS.

THAT IS MY SPECIALTY.

For ten years I have devoted all my energies to advertising engineering products. I have managed the publicity of such firms as the International Steam Pump Co. and the B. F. Sturtevant Co. I was for a year and a half editor of the Westinghouse Companies' Publishing Department. I now conduct the advertising of the Green Fuel Economizer Co., the Harrison Safety Boiler Works, the Shultz Belting Co., the Strong, Carlisle & Hammond Co.; the Lagonda Manufacturing Co., the Diamond Chain & Manufacturing Co. and others. Read the advertisements of these firms in such papers as POWER, ELECTRICAL WORLD, ENGINEERING NEWS, AMERICAN MACHINIST, etc.

My claim on your consideration is that I can get results economically as against the uncertainty and waste of men of narrow experience. I am an engineer, a member of two of the National Engineering Societies and am able to see an engineering argument and to write upon engineering subjects. I have an organized staff, or machine, for carrying out the details of my work. I have records of results from the many campaigns which I have carried through and full facilities for judging the value of different advertising mediums and different schemes.

If you are interested in making more sales I would be pleased to explain details. It will cost you nothing to talk with me and it may be worth while.

GEO. H. GIBSON, ADVERTISING ENGINEER,

7th Floor, Tribune Bldg.



NEW YORK CITY

Link Belt Co., W 39th cor Stewart av., Chicago, Ill., & 299 B'way, New York
 McLanahan-Stone Machine Co., Hollidaysburg, Pa.
 McMyler Mfg. Co., 1799 Columbus rd., Cleveland, O.
 Macbeth Iron Co., 57 W Center, Cleveland, O.
 Macdonald Engineering Co., Monadnock blk, Chicago, Ill.
 Maine Electric Co. (Electric), Portland, Me.
MEAD-MORRISON MFG. CO., Cambridge (Boston), Mass. (See adv. index & branch offices, end of book)
 Millholland, J. & J. B. Co., 718 5th av., Pittsburgh, Pa.
 Monongahela Mfg. Co., Monongahela, Pa.
 New Jersey Foundry & Machine Co., 9 Murray, New York

ROBINS CONVEYING BELT CO., 19 Park row, New York. (See adv. index, end of book)

Steel Cable Engineering Co. (also Ash Handling, 92 State, Boston, Mass.
 Stuebner, G. L. Iron Works, Long Island City, N. Y.

Union Iron Works, Hoboken, N. J.
 Webster Mfg. Co., 1075 W 15th, Chicago, Ill., & 38 Dey, New York

WELLMAN - SEAVER - MORGAN CO. ("Hulett"), Cleveland, O., & Akron, O. (See adv. index, end of book)
WESTINGHOUSE ELECTRIC & MFG. Co., Pittsburgh, Pa. (See adv. index, end of book)

WIENER, ERNST CO., 68 Broad, New York. (See adv. index, end of book)
 Williams, White & Co. (Coal Handling Only), Moline, Ill.

Coat & Hat Hook Machines (Automatic)

Nilson, A. H. Machine Co., Bridgeport, Conn.

Coating Mill Machinery

Koegel, Chas. & Son, Holyoke, Mass.
 Waldron, Jno. Co., New Brunswick, N. J.

Coating & Varnishing Machines

CURRIER, CYRUS & SONS, Newark, N. J. (See adv. index, end of book)

Cockle Machines

Prinz & Rau Mfg. Co., Milwaukee, Wis.

Cocoa Machinery

Carey, Saml. (Complete Plants), 17 State, New York, N. Y.

Cocoa Plantation Machinery

Mason, Marcus & Co., Produce Exchange, N. Y. City

Cocoanut Oil Machinery

Pusey & Jones Co., Wilmington, Del.

Coffee, Peanut & Cocoa Bean Roasting Machines

(See also Peanut and Coffee Roasters.)

Abele, Christian (Bean Roasting Machines), 537 W. 50th, New York
 Bartholomew Co., Peoria, Ill.
 Burns, Jabez & Sons, 542 Greenwich, New York
 Fraser Mfg. Co., 26 Cortlandt, New York
 Hilbert Machine Co., Cincinnati, O.
 Howes, S. Co., Silver Creek, N. Y.
 Huntley Mfg. Co. ("Monitor" Gas Coffee Roasters, etc.), Silver Creek, N. Y.
 Kingery Mfg. Co., Cincinnati, O.
 Lambert Food & Machine Co., Marshall, Mich.
 Lange, Henry G., 22 N. May, Chicago, Ill.
 Malt Wheat Biscuit Co. ("Eureka"), Marshall, Mich.
 Milwaukee Gas Stove Co. (Perfection), Milwaukee, Wis.
 Warner Mfg. Co., New York

Coffee & Rice Cleaning Machinery

Blymyer Iron Works Co., Spring Grove av & Terrace pl., Cincinnati, O.
 Farquhar, A. B. Co., York, Pa.

Howes, S. Co., Silver Creek, N. Y.
 Huntley Mfg. Co. ("Monitor"), Silver Creek, N. Y.
 Invincible Grain Cleaner Co., Silver Creek, N. Y.
 Johnson & Field Mfg. Co., Racine, Wis.
 Salem Iron Works (Coffee only), Winston-Salem, N. C.
SCHULE, F. H. CO., 27 Thames, New York. (See adv. index, end of book)

Coffee & Rice Plantation Machinery

Blymyer Iron Works Co., Spring Grove av & Terrace pl., Cincinnati, O.
 Engelberg Huller Co. (Hullers & Polishers), Syracuse, N. Y.
 Mason, Marcus & Co., 329 Produce Exchange, New York
 Salem Iron Works (Coffee only), Winston-Salem, N. C.

Coffee & Spice Mill Machinery

Burns, Jabez & Sons (Power Machines), 542 Greenwich, N. Y.
 Fraser Mfg. Co., 26 Cortlandt, New York

Coin Counting Machines

American Colnometer Co., 62 Liberty, New York
 National Coin Counting Machine Co., 398 B'way, New York

Coin Operating Machines

(See Vending Machines)

Coining Machines

BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)
 Ferracute Machine Co., Bridgeton, N. J.
 Johnson Iron Works (Ltd.), Julla & Delta, New Orleans, La.

Coke Crushing Machinery

(See Crushers, Coke)

Coke Oven Machinery

Phillips, Hine & Hill Supply Co., Pittsburgh, Pa.
 Scottsdale Fdry. & Machine Co., Scottsdale, Pa.
WELLMAN-SEAVER-MORGAN CO., Cleveland, O., & Akron, O. (See adv. index, end of book)

Cold Hammering Machines

Langeller Mfg. Co., 67 Clifford, Providence, R. I.

Cold Punched Nut Machines

National Machinery Co., Tiffin, O.

Cold Roll Pointing Machines (Automatic)

SHUSTER, F. B. CO., New Haven, Conn. (See adv. index, end of book)

Cold Rolling Machines

WRIGHT WIRE CO., Worcester, Mass.

Cold-Saw Cutting-Off Machines

Billings & Spencer Co. (Cold & Hot), Hartford, Conn.
 Birdsboro Steel Fdry. & Machine Co. ("Wagner"), Birdsboro, Pa.
 Burr, Jno. T. & Sons, 429 Kent av, Brooklyn, N. Y.
 Cochran-Bly Co., Rochester, N. Y.
 Espen-Lucas Machine Works (for Round Bars, Rails, I Beams, etc., Solid or Inserted Tooth Saw Blade), Broad & Noble, Philadelphia, Pa.
 Fischer Foundry & Machine Co. (High Speed, Heavy), Pittsburgh, Pa.
 Ham, L. M. & Co., Boston, Mass.
 High Duty Saw & Tool Co. (High Duty), Eddystone, Pa.
 Hill Standard Mfg. Co. ("Hill" Automatic), Anderson, Ind.
 Hoefler Mfg. Co., Freeport, Ill.
 Hub Machine & Tool Co. ("Acme"), 621 Cherry, Philadelphia, Pa.

Hulburt-Rogers Machine Co., South Sudbury, Mass.
 Kentucky Gear & Machine Co., Louisville, Ky.
 Newton Machine Tool Works (Inc.), 2347 Vine, Philadelphia, Pa.
 Nutter, Barnes & Co., 366 Atlantic av, Boston, Mass.

Pratt & Whitney Co., Hartford, Conn.
 Quincy-Manchester-Sargent Co. ("Q. & C."), Old Colony bldg, Chicago, Ill., & 114 Liberty, New York

Ryerson, Jos. T. & Son ("Ryerson" High Speed Friction), 18 Milwaukee av, Chicago, Ill.
 Scaife Foundry & Machine Co. (High Speed up to 80 H. P.), Pittsburgh, Pa.
 Sellers, Wm. & Co., 1600 Hamilton, Phila., Pa.
 Smith & Post Co., Milwaukee, Wis.
 United Engineering & Foundry Co. (High Speed, Heavy), Farmers' Bank bldg, Pittsburgh, Pa.
 Van Dyck-Churchill Co. ("Higley"), 8 Dey, New York
 Waterbury Farrel Fdry. & Machine Co., Waterbury, Conn.
 Wetherill, R. & Co. (for Steel Foundries) Chester, Pa.

Cold Saw Sharpening Machines

Higley Machine Co., 8 Dey, New York
 Newton Machine Tool Works (Inc.), 2347 Vine, Philadelphia, Pa.
 Smith & Post Co., Milwaukee, Wis.

Cold Swaging Machines

Langelier Mfg. Co., 67 Clifford, Providence, R. I.

Collar Folding Machines

Prankard, O. J. & Sons, Troy, N. Y.

Collar Seam Dampening Machines

Prankard, C. J. & Sons, Troy, N. Y.

Collar & Cuff Machinery

Eclipse Machinery Co., Troy, N. Y.

Comb & Hair Pin Machinery & Tools

Cook, F. H. & Co. (Horn, Tortoise Shell, Celluloid or Rubber), Leominster, Mass.

Compressed Yeast Machinery

Erhart, Chrls, 1237 W 6th, Cincinnati, O.

Computing Machines

(See also Adding Machines)

Comptograph Co., 146 Blackhawk, Chicago, Ill.
 Hamburger, Felix ("Brunsviga"), 78 5th av, New York
 Office Men's Record Co. (Goldman's), 145 La Salle, Chicago, Ill.
 Squaredale Computer Co., 415 Colorado bldg, Washington, D. C.

Concentrating Machinery

(See Concentrators.)

Concrete Brick Machines

(See Cement Brick Machines)

Concrete Building Block Machinery

American Foundry Co., Leipsic, O.
 American Hydraulic Stone Co., Denver, Col.
 Anchor Concrete Stone Co., Rock Rapids, Ia.
 Architectural Hold Co., Detroit, Mich.
 Atlas Cement Machinery Co., Rochester, N. Y.
 Auburn Concrete Machine Works ("Ideal"), Auburn, N. Y.
 Battjes Fuel & Building Material Co., Grand Rapids, Mich.
 Besser Mfg. Co. ("Eureka"), Alpena, Mich.
 Blakeslee Concrete Block & Machine Co., Columbus, O.
 Brooks, W. S. ("Brooks"), Akron, O.
 Burlington Concrete Machine Co., Burlington, Iowa

Cement Machinery Co. ("Normandin"), Jones bldg, Jackson, Mich.
 Cement Machinery & Mfg. Co. ("Chicago"), Burlington, Ia.
 Cement Products Co. ("Northwestern"), Hampton, Ia.
 Central Iron Works, Quincy, Ill.
 Century Cement Machine Co. ("Hercules"), Rochester, N. Y.
 Clover Leaf Co., South Bend, Ind.
 Coltrin, R. B. Mfg. Co., Jackson, Mich.
 Concrete Engineering & Equipment Co. ("Cochran"), Butler, Pa.
 Concrete Machinery Co., Detroit, Mich.
 Concrete Stone & Sand Co. ("Panley," Wall Machines), Youngstown, O.
 Concrete Working Machy. Co., Detroit, Mich.
 Diamond Cement Machine Co., Deshler, O.
 Dietz-Franklin Co., Akron, O.
 Dunn, W. E. & Co., 301 W Fullerton av, Chicago, Ill.
 Dykema Co., Grand Rapids, Mich.
 Edmondson Machine Co., South Bend, Ind.
 Eichelberger's, T. D. Sons ("Superior"), Dayton, O.
 Enterprise Foundry Co. ("Perfection"), Rochester, N. Y.
 Eureka Machine Co., Jackson, Mich.
 Fate, J. D. Co., Plymouth, O.
 Fisher Hydraulic Stone & Machinery Co., Builders' Exchange, Baltimore, Md.
 Flour City Cement Block & Machine Co., Minneapolis, Minn.
 Francisco Block Machine Co., Columbus, O.
 Globe Iron Works Co., Kansas City, Mo.
 Goodwin, H. E., 208 Blake, Indianapolis, Ind.
 Hall, James P., ft Henderson, Jersey City, N.J.
 Hancock Block Machine Co., Lestershire, N. Y.
 Hanna Engineering Works ("Schall"), 820 Elston av, Chicago, Ill.
 Hartwick Machinery Co. ("Scheiffer"), Jackson, Mich.
 Hayden Automatic Block Machine Co. ("Hayden"), Columbus, O.
 Helm Brick Machine Co., South Bend, Ind., & Traverse City, Mich.
 Howland, E. & Sons ("Howland"), Pontiac, Mich.
 Hydraulic Concrete Machine Co., Builders Ex. bldg, Buffalo, N. Y.
 Hydraulic Press Co., Mt. Gilead, O.
 Ideal Concrete Machinery Co. ("Ideal"), South Bend, Ind.
 Iowa Building Block Machine Co., Waterloo, Ia.
 Johnson Concrete Machine Co. ("Warren"), Sioux City, Ia.
 Keith, J. H. ("Crouch"), Des Moines, Ia.
 Kells Fdry. & Mach. Co., Adrian, Mich.
 Kirkpatrick, J. R. ("Kirkpatrick"), Sturgis, Mich.
 Link-Hart Concrete Mfg. Co., Bloomington, Ill.
 Mackay, A. D. & Co. ("Winget"), 84 Washington, Chicago, Ill.
 Medium Hollow Block Mach. Co., Minneapolis, Minn.
 Michigan Cement Block Machinery Co., Union City, Mich.
 Michigan Iron Works, Manistee, Mich.
 Milles, P. B. Mfg. Co., 214 S Mechanic, Jackson, Mich.
 Miller & Huntington, Jackson, Mich.
 Miracle Pressed Stone Co. (Sidewalk, Tile, etc.), Minneapolis, Minn.
 Modern Concrete Machy. Co., Terre Haute, Ind.
 Montfort & Weaver (Gen'l Sales Agts.), 45 Clinton, Newark, N. J.
 Moore Plow & Implement Co., Greenville, Mich.
 Mulstein & Wilson, 3d av & De Graw, Brooklyn, N. Y.
 National Building Block Machine Co., Milwaukee, Wis.
 National Cement Machinery Co., Bay City, Mich.
 National Concrete Machinery Co., Chicago, Ill.
 National Hollow Concrete Block & Fire-Proofing Co., 921 F, N W, Washington, D. C.
 Palmer, Hamson S., The, 1450 Binney st, Washington, D. C.
 Peerless Brick Machine Co., Lumber Exchange, Minneapolis, Minn.
 Perfection Block Machine Co., Minneapolis, Minn.
 Peterson Bros., 1515 Burt, Omaha, Neb.
 Pettyjohn Co., Terre Haute, Ind.
 Queen City Brick Machine Co., Traverse City, Mich.
 Rapid Block Machine Co. ("Rapid"), Leslie, Mich.
 Reed Mfg. Co., Springfield, O.
 Rempls & Gallmeyer Foundry Co., Grand Rapids, Mich.
 Rowell, G. D. & Son, Appleton, Wis.
 Runyan Concrete Machy. Co., Cleveland, O.
 Runyan, C. M. & Co. ("Runyan"), Elyria, O.
 Schwab, R. J. & Sons Co., Milwaukee, Wis.
 Schwartz, J. F. ("Schwartz"), Alma, Mich.
 Seaman's Cement Brick Machine Co., Grand Rapids, Mich.
 Simplex Mfg. Co. ("Simplex"), Jackson, Mich.

South Bend Machine Mfg. Co. ("Standard"), South Bend, Ind.
 Standard Machine Co. ("Standard," with Sittling Cones, etc.), Kent, O.
STANDARD SAND & MACHINE CO. ("Simplicity"), St. Clair, Cleveland, O.
 (See adv. index, end of book)
 Stevens, C. W., Harvey, Ill.
 Stewart Cement Block Machine Co. ("Stewart"), Waterloo, Ia.
 Stringer Machine Co. (Sewer & Culvert Blocks, etc.), Jackson, Mich.
 Thayer Cement Block Machine Co., Minneapolis, Minn.
 Turner, Oliver ("O. K."), Youngstown, O.
 Underwood Bldg. Block Mach. Co., Denver, Col.
 United Cement Machinery Mfg. Co. ("Palmer," "Wingert," "Chicago"), Columbus, O.
 United Concrete Machinery Co., 34 W 26th, New York
 Van Smyth, Manley Construction Co. ("Standard" & "Ureka"), 264 William, New York
 Walton Granolithic Co., Kansas City, Mo.
 Wammack, A. O. Decatur, Ark.
 Waterloo Automatic Stone Machine Co., Waterloo, Ia.
 Waterloo Concrete Brick & Block Machine Co., Waterloo, Ia.
 Wert, O. S. ("Perfect"), Kendallville, Ind.
 Wichita Coal & Material Co. ("Reed"), Wichita, Kans.
 X. L. Concrete Stone Machine Co., Kansas City, Mo.

Concrete Fence Post Machines

Batterton & Perjue ("Phoenix"), Centerville, Iowa

Condensed Milk Machinery

Elgin Mfg. Co., Elgin, Ill.
 Rogers, C. T. Co., Detroit, Mich.

Conductor Pipe & Eave Trough Machinery

CANTON FOUNDRY & MACHINE CO. ("Universal"), Canton, O. (See adv. index, end of book)
HEARTLEY MACHINE, VARIETY Iron & Tool Works, Toledo, O. (See adv. index, end of book)
NIAGARA MACHINE & TOOL Works, Buffalo, N. Y. (See adv. index, end of book)

Conduit Pipe Bending Machines

Wrigley, Thos. & Co., 300 Dearborn, Chicago, Ill.

Conduit Threading Machines

Cope, J. T. & Co., 3244 N 15th, Phila., Pa.

Confectioners' Machinery

American Chocolate Machinery Co., 106 E 16th, New York
 Anderson, J. P. & Co. (Mixing Machines, Cutters, Graters, Rools, etc.), 422 N 6th, Phila., Pa.
 Annen Candy & Biscuit Co. (Chocolate Dipping Machines, etc.), Green Bay, Wis.
 Barbour-Stockwell Co., Cambridgeport, Mass.
 Buhr, Plaff & Co. ("Hellman" Candy Rolling Machines, etc.), Cincinnati, O.
 Champion Candy Machine Co. (Cutters, Mixers, Chocolate Dippers, etc.), 3257 Old York rd, Phila., Pa.
 Clad, V. & Sons (Cutters, Mixers, Copper Jacket Kettles, Revolving Pans, etc.), 239 S 12th, Phila., Pa.
 Collum Mfg. Co. (Candy & Cream Coolers, Cutters, etc.), Hartford, Conn.
 Confectioners & Bakers Supply Co. (Machinery Tools & Supplies of all kinds), 218 E Washington, Chicago, Ill.
 Confectioners' Labor Saving Machinery Co. ("Royal" Caramel Cutter), 125 Front, N. Y. City
 Confectioners' Mach'y & Mfg. Co., Springfield, Mass.
 Crandall & Godley Co., 157 Franklin, N. Y.
 Day, J. H. Co. (Bakers', etc.), 1144 Harrison av, Cincinnati, O., & 76 Park pl, N. Y.
 Dopp, H. Wm. & Son, Buffalo, N. Y.
 Duff, P. & Sons (Brandle & Smith Spinning Machines, etc.), 918 Duquesne, Pittsburgh, Pa.
 Echert, P. Co., 27 W Court, Cincinnati, O.

Hellman, Jno. C., C. H. & D. R'y & Gulow, Cincinnati, O.
 Hicks & Schmidt (Bakers' Supplies), 13 Park row, New York
 Hilbert-Freiberg Machine Co., 20 W Court, Cincinnati, O.
 Hildreth, H. L. (Candy Pulling Machines, etc.), Boston, Mass.
 Hillyard & Co. (Candy Cutters, Gooseberry Ball Spinners, Coconut Cutters, Chewing Gum & Fruit Tablet Drop Machines, etc.), 75 Fulton, New York
 Horton, Pembroke D. (Bakers), 15th & Fairmont, Phila., Pa.
 Kingery Mfg. Co., 131 E Pearl, Cincinnati, O.
 Lange, Henry G., 22 N May, Chicago, Ill.
 Magg, August Co. (Freezers, Tools & Supplies, etc.), Baltimore, Md.
 Mills, Thos. & Bro. (Mixers, Cutters, Freezers, etc.), 3108 N 4th, Phila., Pa.
 Racine Engine & Machinery Co. (Chocolate Mixers, Cream Beaters, etc.), Racine, Wis.
 Rittenhouse, Frank (Nougat Cutting Machines, etc.), Norristown, Pa.
 Rockwell, L. A. ("Bakers"), 9 Elizabeth, New York
 Savage Bros. Co. (Mixers, Chewing Gum Machines, Revolving Pans, etc.), 42 Michigan, Chicago, Ill.
 Schaffer Mfg. Co., 3 Park row, New York
 Smith, Sidney, 787 8th av, New York
 Standard Candy Machine Co. ("Igon" Candy Pullers & Kiss Wrappers, etc.), Columbus, Ohio
 Watkins, Jas. Y. & Son, 16 Catharine, New York
 Werner, Jno. Machine Works (Labor Saving Confectionery Machines), Rochester, N. Y.

Connecting Rod Boring Machines

Prentice Bros. Co. (Locomotive), Worcester, Mass.

Contractors' Paint Spraying & Sand Blast Machinery

STANDARD PNEUMATIC SPRAY CO. (Combination Auto & Air Compressor), 500 5th av, New York. (See adv. index, end of book)

Conveying Machinery

(See Elevating & Conveying Machinery; also Conveyors of various kinds)

Cooperage Machinery

(See Barrel, Keg, Stave & Heading Machinery)

Coping Machines

Bertsch & Co., Cambridge City, Ind.
 Ham, L. M. & Co. ("Ham's"), 152 Portland, Boston, Mass.
 Long & Allstatter Co. (Beam Coping, etc.), Hamilton, O.
 Williams, White & Co. (Coping & Punching Machines), Moline, Ill.

Copper Converting Machinery

Alliance Machine Co., Alliance, O.
ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

Copper Working Machinery

Portage Lake Foundry & Machinery Co., Hancock, Mich.

Cord Wood Sawing & Splitting Machines

(See Kindling Wood Machinery)

Cordage Machinery

AITON MACHINE CO., 126 Liberty, New York. Works: Harrison, N. J. (See adv. index, end of book)
 Birch Bros. (Rope), Somerville, Mass.

Brownell, G. L. (for Twisting & Spinning, for Twines, Lines & Cordage, from all Materials), Worcester, Mass.
Haskell-Dawes Machine Co., 176 Federal, Boston, Mass. Works: Frankfort Jct., Phila., Pa.
Hoover & Gamble Co. (Hard Fibre, Sisal & Manilla, Cordage & Twine), Miamisburg, O.
Kelly, R. A. Co. (Cordage), Xenia, O.
Lockwood Mfg. Co. (Inc.) (also Binder Twine & Rope), 61 Sumner, E. B., Boston, Mass.
Watson Machine Co., Paterson, N. J.

Core Box Cutting Machines

Huther Bros., 229 Mill, Rochester, N. Y.
 Portland Co. ("Thomes"), Portland, Me.

Core Making Machines

Brown Specialty Machinery Co. (Hammer), Jackson boul & Clinton, Chicago
Falls Rivet & Machine Co. ("Wadsworth" Improved), Cuyahoga Falls, O., & 208 Fulton, Kent Mfg. Co., Kent, O.
Tabor Mfg. Co., N 18th & Hamilton, Phila., Pa.
Turner, Vaughn & Taylor Co., Cuyahoga Falls, Ohio

Core Tapering Machines

Brown Specialty Machinery Co., Jackson boul & Clinton, Chicago, Ill.

Cork Cutting Machinery

Barber, M. A., Norwich, Conn.

Cork Machinery

Blickendefer, Richard, Lancaster, Pa.

Cork Sticking Machines

Girard Machine Works (Inc.), 2616 Girard av, Phila., Pa.

Corking Machines (Bench & Up-right)

Dicke Tool Co., Downers Grove, Ill.

Corking Machines (Preservers')

VILTER MFG. CO., 1046 Clinton, Milwaukee, Wis. (See adv. index, end of book)

Corn Cutting Machines

SPRAGUE CANNING MACHINERY Co. (For Cannery), 42 River, Chicago, Ill. (See adv. index, end of book)

Corn Mill Machinery

Howes, S. Co., Silver Creek, N. Y.
Huntley Mfg. Co. (Monitor), Silver Creek, N. Y.
Invincible Grain Cleaner Co., Silver Creek, N. Y.
Nordyke & Marmon Co. (All Kinds), Indianapolis, Ind.
SCHULE, F. H. CO., 27 Thames, New York. (See adv. index, end of book)
Sprout, Waldron & Co., Muncy, Pa.
Starr, B. F. Co., 455 North, Baltimore, Md.

Corn Mixing Machines

SPRAGUE CANNING MACHINERY Co. (for Cannery), 42 River, Chicago, Ill. (See adv. index, end of book)

Corn Oil Machinery

Buckeye Iron & Brass Wks., Dayton, O.
Callahan, W. P. & Co., 901 E. 3d, Dayton, O.
ELMES, CHAS. F. ENGINEERING Works, c Fulton & N Sagamon, Chicago, Ill. (See adv. index, end of book)
SCHULE, F. H. CO., 27 Thames, New York. (See adv. index, end of book)

Corn Silking Machines

SPRAGUE CANNING MACHINERY Co. (For Cannery), 42 River, Chicago, Ill. (See adv. index, end of book)

Corn Splitting Machines

Eureka Fence Mfg. Co. (Poindexter), Richmond, Ind.
Poindexter Mfg. Co., Indianapolis, Ind.

Corner Cutting Machines

Hobbs Mfg. Co. (For Paper Box Makers), Worcester, Mass.

Corner Staying Machines

Hobbs Mfg. Co. (For Paper Box Makers), Worcester, Mass.

Cornice Makers' Machinery

(See also Sheet Metal Workers' Machines & Tools.)

Double Truss Cornice Brake Co., Buffalo, N. Y.
Keene, Geo. C. & Co., 2327 Florence, Cincinnati, O.
NIAGARA MACHINE & TOOL WKS., Buffalo, N. Y. (See adv. index, end of book)
Ohl, Geo. A. & Co. Automatic Power Brakes, etc., 157 Oraton, Newark, N. J.
Peck, Stow & Wilcox Co., 27 Murray, New York
Robinson, J. M. Mfg. Co., Cincinnati, O.

Corporation Cock Inserting Machines

Smith, A. P. Mfg. Co. (or Water Works, Newark, N. J.)

Corrugating Machines

BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)
Keene, Geo. C. & Co., 2327 Florence, Cincinnati, Ohio
Lewis Foundry & Machine Co., 1001 Bingham, Pittsburgh, Pa.
NIAGARA MACHINE & TOOL WKS., Buffalo, N. Y. (See adv. index, end of book)
Peck, Stow & Wilcox Co., Southington, Conn.
Robinson, J. M. Mfg. Co., Cincinnati, O.
United Engineering & Foundry Co., Farmers Bank bldg, Pittsburgh, Pa.

Corset Machinery

Adams, A. L., 151 Middle, Bridgeport, Conn.

Cotter Pin Machinery

Manville Bros. Co., Waterbury, Conn.
Nilson, A. H. Machine Co. (Automatic), Bridgeport, Conn.
SHUSTER, F. B. CO. (Automatic), New Haven, Conn. (See adv index, end of book)

Cotton Ginning Machinery

Adams, W. T. Machine Co., Corinth, Miss.
Carver Cotton Gin Co., East Bridgewater, Mass.
Cheesman Cotton Gin Co., 76 William New York
Chickasaw Iron Works, Memphis, Tenn.
Continental Gin Co., Bridgewater, Mass., & Birmingham, Ala.
Gantt, J. T., Macon, Ga.
Hall Self-Feeding Cotton Gin Co., Ossining, N. Y.
Liddell Co. (Inc.), Charlotte, N. C.
Lummas, E. H. Sons Co., Columbus, Ga.
Means, J. L. Machinery Co., Shreveport, La.
Murray Co., Dallas, Tex.
Southern Engine & Boiler Works (Inc.), Jackson, Tenn.
Van Winkle, E. Gin & Machine Works, Atlanta, Ga.
White, E. R. & Bro., Norfolk, Va.

Cotton Machinery

(See Textile Machinery, etc. For page number consult Index of Contents)

Cottonseed Oil Machinery

Boomer & Boschert Press Co., Syracuse, N. Y.
Brown Cotton Gin Co., New London, Conn.
Buckeye Iron & Brass Works (also Linseed), Dayton, O.
Callahan, W. P. & Co. (Linseed & Corn also), Dayton, O.
Carver Cotton Gin Co., East Bridgewater, Mass.
Cardwell Machine Co., Richmond, Va.
Columbus Machinery Co., Columbus, Miss.

Continental Gin Co. (Linters Feeders, Condensers, Presses, etc.), Birmingham, Ala.
Foos Mfg. Co. (Crushers, Separators & De-linters), Springfield, O.
French Oil Mill Machinery Co., Piqua, O.
Fritz, Geo. J. Foundry & Machine Co., 2008 S. 3d, St. Louis, Mo.
Platt Iron Works Co., Dayton, O., & 100 B'way, New York
SCHULE, F. H. CO., 27 Thames, New York. (See adv. index, end of book)
Sprout, Waldron & Co., Muncy, Pa.
Tompkins, D. A. Co., Charlotte, N. C.
Van Winkle, E. Gin & Machine Works, Atlanta, Ga.

Counting Machines

Dnrrant, W. N. Co., Milwaukee, Wis.
Grant Mfg. & Machine Co., Bridgeport, Conn.
National Scale Co. ("National"), (Counting & Weighing), Beaver Falls, Pa.
Root, Chas. J. ("Elm City"), Bristol, Conn.

Coupling Bending Machines

United Engineering & Foundry Co. (Belt Driven for Rolling Mills), Farmers' Bank bldg, Pittsburgh, Pa.

Coupling Expanding Machines

United Engineering & Foundry Co. (5 to 12-inch), Farmers' Bank bldg, Pittsburgh, Pa.

Coupling Rolling Machines

United Engineering & Foundry Co. (Belt Driven), Farmers' Bank bldg, Pittsburgh, Pa.

Coupling Tapping Machines

United Engineering & Foundry Co. (4 & 6 Spindle), Pittsburgh, Pa.

Cracker & Biscuit Machinery

Roth-McMahon Co., South Evanston, Evanston, Ill.

Crank Boring Machines

Niles-Bement-Pond Co., 111 B'way, New York

Crank Pin Turning Machines

Clyde Machine Works (The Clover), 3913 Union av, Chicago, Ill.
Quincy-Manchester-Sargent Co., Old Colony bldg, Chicago, Ill., & 114 Liberty, New York
Stow Flexible Shaft Co., 26th & Callowhill, Phila., Pa.
Tindel-Morris Co. (Crank Pin Lathes), Eddy-stone, Pa., & Ellwood City, Pa.
Underwood, H. B. & Co. (Portable), 1023 Hamilton, Phila., Pa.

Crate Machinery

Merritt Mfg. Co., Lockport, N. Y.
Saranac Machine Co. ("Advance" Stapling Machines), St. Joseph, Mich.

Crate Slat Cutting Machines

Trevor Mfg. Co., Lockport, N. Y.

Crayon Moulding Machinery

Houchin & Huber, 35 53d, Brooklyn, N. Y.

Creamery Machinery

(See also Separators, Cream)

Barclay, D. F. (and Supplies), Elgin, Ill.
Burrell, D. H. & Co., Little Falls, N. Y.
Chapman, C. L., Erie, Pa.
Cook, T. A., Calicoon, N. Y.
Cornish, Curtis & Greene Mfg. Co., Fort Atkinson, Wis.
Creamery Package Mfg. Co., 182 E Kinzie, Chicago, Ill.
Dairy Specialty Co. (Combined Churn & Butter Worker, Babcock Milk Tester, Milking Machines, etc.), Westchester, Pa.
De Laval Separator Co., 74 Cortlandt, New York
Dobson Mfg. Co., Rockford, Ill.
Fargo Creamery Supply House, Lake Mills, Wis.
Haney-Campbell Co., Dubuque, Iowa
Heudy, Joshua, Machine Works, 38 Fremont, San Francisco, Cal.
Jones, Frank L., Utica, N. Y.

Moseley & Prichard Mfg. Co., Clinton, Ia.
National Dairy Machine Co., Newark, N. J.
Oakes & Burger, Cattaraugus, N. Y.
Read, A. H. Creamery & Dairy Supply Co.
Sharpless Separator Co., 32 S Canal, Chicago, Ill.

Sharpless Separator Co. (Cream Separators, etc.), West Chester, Pa.
Stoddard Mfg. Co., Rutland, Vt.
Vermont Farm Machine Co., Bellows Falls, Vt.

Crimping Machines for Tops on Tooth Powder Boxes

American Can Co., 135 Adams, Chicago, Ill.

Creasing Machines

Stimpson, Edwin B. & Son (for Leather, etc.), 14 Spruce, N. Y.

Crimping & Beading Machines

(See also Sheet Metal Workers' Machines & Tools.)

American Can Co. ("Rudolph" & "Krummel"), 135 Adams, Chicago, Ill.

BLISS, E. W. CO. (for Canmakers, etc.), 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)

CANTON FOUNDRY & MACHINE CO. ("Universal" Beading), Canton, O. (See adv. index, end of book)

Eclipse Machine Co., Troy, N. Y.

Hibbard, Wm. H. Mfg. Co. (Beading Machines only), 79 Washington, Brooklyn, N. Y.

Keene, Geo. C. & Co., 2327 Florence, Cincinnati, O.

Leffler, Chas. & Co. (For Can Makers, etc.), 63 Clymer, Brooklyn, N. Y.

NIAGARA MACHINE & TOOL Works, Buffalo, N. Y. (See adv. index, end of book)

Peck, Stow & Wilcox Co., Southington, Conn.

Robinson, J. M. Mfg. Co., Cincinnati, O.

Slaysman & Co. (Canmaker's), 718 E Pratt, Baltimore, Md.

Swaine, Fred J. Co., St. Louis, Mo.

Cross-Cut Sawing Machines

Ewart, Sam'l F. (Automatic), 3015 Center av, Pittsburgh, Pa.

Farquhar, A. B. Co., Ltd., York, Pa.

Cross Head Pin Turning Machines

Fisher Governor Co., Marshalltown, Ia.

Cupel Machines

Braun, F. W. Co. ("Braun" Produce Homogeneous Cupels), Los Angeles, Cal.

Curled Hair Machinery

Hood, R. H., 1842 Germantown av, Phila., Pa.

Curtain Pole Machines

Bentel & Margedant Co., Hamilton, O.

Heath, W. A. Machine Co., Lestershire, N. Y.

Merritt Mfg. Co., Lockport, N. Y.

Smith, H. B. Machine Co., Smithville, N. J., & 121 Liberty, New York

Curtain Pole Sanding & Finishing Machines

Bentel & Margedant Co., Hamilton, O.
Pringle & Brodie Machinery Co., 277 S Canal, Chicago

Cutlery Machinery

Oakes & Burger (Cheese Knives, etc.), Cattaraugus, N. Y.

Cutlery Polishing Machines

Dilig Mfg. & Trading Co., 663 E 163d, New York

Cutting Machines (for Fabrics)

CAMERON MACHINE CO., 61 Poplar, Brooklyn, N. Y. (See adv. index, end of book)

Cutting-Off Machines (Cold Metal)

(See Metal Cutting-Off Machines)

Cutting-Off Machines (Wood)

(See Wood Cutting-Off Machines)

Cutting & Punching Machines

Ohl, Geo. A. & Co. (One Operation for Cutting and Punching Strips of Tin, Iron, Fibre, etc.), 88 McWhorter, Newark, N. J.

Cylinder Boring Machines

Baker Bros., Toledo, O.

Barrett Machine Tool Co., Meadville, Pa.

Beamant & Smith Co., Providence, R. I.

Bickford Drill & Tool Co., Front c Pike, Cincinnati, O.

Binsee Machine Co., Newark, N. J.

ELMES, CHAS. F. ENGINEERING Works, c Fulton & N Sangamon, Chicago, Ill. (See adv. index, end of book)

Fisher Machine Works (Portable for Re-Boring), Leavenworth, Kan.

FREVERT MACHINERY CO., 18 Dey, New York. (See adv. index, end of book)

Jones, W. A. Foundry & Machine Co., 143 W North av, Chicago

Mathews, Hugh (Portable Re-Boring Bars), Kansas City, Mo.

Moline Tool Co., Moline, Ill.

Newton Machine Tool Works, 2347 Vine, Phila., Pa.

Niles-Bement-Pond Co., 111 B'way, New York

Quincy-Manchester-Sargent Co. (Locomotive, etc.), Old Colony bldg, Chicago, Ill., & 114 Liberty, New York

Prentice Bros. & Co., Worcester, Mass.

Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Phila., Pa.

Stow Flexible Shaft Co. (Portable), Phila., Pa.

TUOHY BROS. CO., 95 Liberty, New York. (See adv. index, end of book)

Underwood, H. B. & Co. (Portable), 1025 Hamilton, Phila., Pa.

Cylinder Facing Machines

Quincy-Manchester-Sargent Co., Old Colony bldg, Chicago, Ill., & 114 Liberty, New York

Dado Machines

American Woodworking Machinery Co., Rochester, N. Y., & West St. bldg, New York

Bentel & Margedant Co., Hamilton, O.

Power, L. & Co. (Combination Saw & Dado Machines), 20 S 23d, Phila., Pa.

Yerkes & Finnan Woodworking Machine Co. (Combination Saw & Dado Machines), St. Louis, Mo.

Damp-Proofing Paint Machines (Compressed Air)

STANDARD PNEUMATIC SPRAY CO. (Compressed Air), 500 5th av, New York.

(See adv. index, end of book)

Dating Machines

Girard Machine Works (Inc.), 2616 Girard av, Phila., Pa.

Die Chamfering Machines

Hartford Machine Screw Co., Hartford, Conn.

Die Plate Hammering Machines

Bates Machine Co., Joliet, Ill.

Die Sinking Machines

COOK, ASA C. CO., 80 Huyshope av, Hartford, Conn. (See adv. index, end of book)

Crane, W. W. Foundry & Machine Works, Auburn, N. Y.

FREVERT MACHINERY CO., 18 Dey, New York. (See adv. index, end of book)

Newton Machine Tool Works (Inc.), 2347 Vine, Phila., Pa.

Perkins, Henry Co. (Die Making), Bridge-water, Mass.

Pratt & Whitney Co., Hartford, Conn.
Royle, Jno. & Sons (Inc.), Paterson, N. J.
TUOHY BROS. CO., 95 Liberty, New York. (See adv. index, end of book)

Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.

Die Sinking & Milling Machines (Combined)

Newton Machine Tool Works (Inc.), 2347 Vine,

Die Slotting Machines

Garvin Machine Co., 137 Varick, New York

Digging Machinery

HAYWARD CO., THE, 99 Cedar, New York. (See adv. index, end of book)

Digging Machinery (Canal)

HAYWARD CO., THE, 99 Cedar, New York. (See adv. index, end of book)

Disc Grinding Machines

(See Grinders, Disc.)

Disc Making Machines

Krips-Mason Machine Co., 1636 N Hutchinson, Phila., Pa.

Disc Notching Machines

BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)

Long & Allstatter Co., Hamilton, O.

Disc Sanding Machines

Bentel & Margedant Co. (Single & Double), Hamilton, O.

Dish Washing Machines

Blakeslee, G. S. & Co., 325 Dearborn, Chicago, Ill., & 260 W B'way, New York

Crammond Mfg. Co., Waukegan, Ill.

Fearless Dish Washer Co., Rochester, N. Y.

Garis-Cochrane Co., Auditorium bldg, Chicago, Ill.

Gill, P. H. & Sons, Lorraine & Orsego, Brooklyn, N. Y.

Hamilton-Low Co. ("Vortex"), 145 E 42d, New York

Insinger Co., Stenton av, above Wayne Jct., Phila., Pa.

Mound City Dish Washer Co., 3685 Laclede av, St. Louis, Mo.

Parish Machine Co. ("Excelsior"), 742 E 12th, New York

Wrought Iron Range Co., St. Louis, Mo.

Disinfecting Machinery

Kny-Scheerer Co., 225 4th av, New York

Kensington Engine Works (Ltd.), (The Kinyoun-Francis), 246 N Broad, Phila., Pa.

McLauthlin, Geo. T. Co., 120 Fulton, Boston, Mass.

Vogel, Wm. & Bro. (Automatic Drip), 37 S 9th, Brooklyn, N. Y.

Disinfecting Machinery (Spraying by Compressed Air)

STANDARD PNEUMATIC SPRAY CO., 500 5th av, New York. (See adv. index, end of book)

Disinfecting Paint Machines (Compressed Air)

STANDARD PNEUMATIC SPRAY CO., 500 5th av, New York. (See adv. index, end of book)

Distillers' Machinery

Fritsch, Francis Mfg. Co., 223 W McMicken, Cincinnati, O.

Kaestner & Co. (Inc.), 241 S Jefferson, Chicago, Ill.

Nordyke & Marmoon Co., Indianapolis, Ind.

SCHULE, F. H. CO., 27 Thames, New York. (See adv. index, end of book)

Straub Machinery Co., Cincinnati, O.



CATALOGUE V.

THE AUSTIN DRAINAGE EXCAVATOR

Makes ditch of any required depth and any width of top or bottom. Cuts any desired slope at a single operation, without disturbing original structure of banks. Constructs a uniform continuous waste bank, at sufficient distance to prevent erosion or caving of banks. ♣ Special Machines for Levee Work.

F. C. AUSTIN DRAINAGE EXCAVATOR CO.

CHICAGO, ILL.
Railway Exchange.

NEW YORK OFFICE
Room 1301, West Street Office Building.

Ditching Machines

(See also Road Machines & Graders; also Road Scrapers, Drag & Wheel.)

American Road Machine Co., Kennett Square, Pa.

AUSTIN, F. C. DRAINAGE EXCAVATOR CO., Railway Exchange, Chicago, Ill. (See adv. above)

Austin Mfg. Co., Manhattan bldg, Chicago, Ill. Works: Harvey, Ill.

Beatty, M. & Sons, Welland, Ontario, Canada
Edwards, C. D. (Ditching Machinery), Albert Lea, Minn.

Enterprise Mfg. Co., Columbiana, O.
Fairbanks Steam Shovel Co., Marion, O.

Good Roads Machinery Co., Kennett Square, Pa.
HAYWARD CO., THE, 99 Cedar, New York. (See adv. index, end of book)

Kilbourne & Jacobs Mfg. Co., Columbus, O.
Kilgore, Peteler Co., Minneapolis, Minn.

Marion Steam Shovel Co., Marion, O.
Marion Steam Shovel Co., Marion, O.

Mahoney Railroad Ditching Machine Co. (Railroad), Vincennes, Ind.

MUNICIPAL ENGINEERING & CONTRACTING CO., Railway Exchange bldg, Chicago, Ill. (See adv. index & branch offices, end of book)

Osgood Dredge Co., Albany, N. Y.
SHAW, WILLIS, 171 LaSalle, Chicago, Ill. (See adv. below)

Smith & Sons Mfg. Co., Lydia & Guinotte av, Kansas City, Mo.

Stacey, William, Iowa Falls, Ia.
Vulcan Iron Works, Toledo, O.

Western Wheeled Scraper Co., Aurora, Ill.

Ditching Machines (Railroad)

Austin Mfg. Co., Manhattan bldg, Chicago, Ill. Works: Harvey, Ill.

Bucyrus Co., South Milwaukee, Wis.
JEFFREY MFG. CO., Columbus, O. (See adv. index & branch offices, end of book)

Mahoney Railroad Ditching Machine Co., Vincennes, Ind.

Marion Steam Shovel Co., Marion, O.
MUNICIPAL ENGINEERING & CONTRACTING CO., Railway Exchange bldg, Chicago, Ill. (See adv. index & branch offices, end of book)

SHAW, WILLIS, 171 La Salle, Chicago, Ill. (See adv. below)

Van Buren, Heck & Marvin Co. (Buckeye Traction Ditcher), Findlay, O.

Western Wheeled Scraper Co., Aurora, Ill.

Ditching Machines (Traction)

SHAW, WILLIS, 171 La Salle, Chicago, Ill. (See adv. below)

Van Buren, Heck & Marvin Co. ("Buckeye"), Findlay, O.

Double Seaming Machines

(See also Sheet Metal Workers' Machines & Tools.)

American Can Co ("Rudolphi" & "Krummel," for Tin & Sheet Metal Work), 135 Adams, Chicago, Ill.

Ams. Max Machine Co. (for Round Cans), Mt. Vernon, N. Y.

Atwood-Morrison Co., 487 B'way, New York

BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)

Gohlke, Theo., 12th & Locust, St. Louis, Mo.

Hibbard, Wm. H. Mfg. Co., 79 Washington, Brooklyn, N. Y.

Keene, Geo. C. & Co., 2327 Florence, Cincinnati, O.

Leffler, Chas. & Co. (For Can Makers, etc.), 63 Clymer, Brooklyn, N. Y.

NIAGARA MACHINE & TOOL WORKS ("Hulbert's"), Buffalo, N. Y. (See adv. index, end of book)

Peck, Stow & Wilcox Co., Southington, Conn.

Robinson, J. M. & Co., Cincinnati, O.
Slate, Dwight Machine Co., Hartford, Conn.

Swaine, Fred. J. Co., St. Louis, Mo.
Toledo Machine & Tool Co., Toledo, O.

Dough Mixing & Kneading Machinery

Atlantic Stamping Co., Rochester, N. Y.
Durand Kneading Machine Co. ("Durand"), 136 Liberty, New York

Landers, Frary & Clark ("Universal"), New Britain, Conn.

Manning, Bowman & Co. ("Eclipse"), Meriden, Conn.

Oelman & Co., Detroit, Mich.

Pritchard Strong Mfg. Co., Rochester, N. Y.

Stowell Mfg. & Foundry Co., Milwaukee, Wis.

Superior Tool & Supply Co. ("Superior" Double), 500 E Front, Cincinnati, O.

Vici Machinery Co. ("Standard"), 42 B'way, New York

Wieda Mixing Machinery Co., 1 Hudson, New York

Dovetailing Machines

Advance Machinery Co. (Gang), Toledo, O.

American Steam Pump Co., Battle Creek, Mich.

Bentel & Margedant Co., Hamilton, O.

Dodds, Alexander (Gang), Grand Rapids, Mich.

Dovetail Box Machine Co. (For Dovetail Boxes, etc.), St. Paul, Minn.

Fay, J. A. & Egan Co., Cincinnati, O.

Fischer, E. Machine Works (Single), 710 Carroll av, Chicago, Ill.

Goodspeed Machine Co. ("Stimpson's"), Winchendon, Mass.

Yerkes & Finnan Woodworking Machine Co. (Gang, etc.), St. Louis, Mo.

Dowel Door Machinery

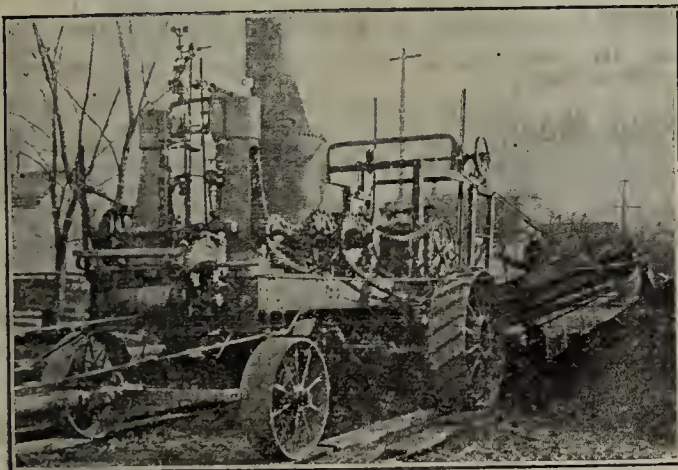
Hayes, E. B. Machine Co., Oskosh, Wis.

Dowel Machines.

Bentel & Margedant Co., Hamilton, O.

Frank Machinery Co., 214 Terrace, Buffalo, N. Y.

Pringle & Brodie Machinery Co. (Sanding or Buffing), 277 S Canal, Chicago, Ill.



The Clark Traction Trencher

A perfect machine in successful operation.

SOLD OUTRIGHT

Under guarantee at a low price.

THREE SIZES.

Each is adjustable to varying widths and depths. Machines excavate from 27 inches to 60 inches wide and to 20 feet deep. Weigh less than other machines. Can be shipped without dismantling. A money maker for the Contractor.

BUILT AND SOLD EXCLUSIVELY BY

WILLIS SHAW,

Dealer in Contractors' Machinery and Plant, both New and Second-Hand.

171 LA SALLE ST., CHICAGO.

Twelve Years at this Address

Down Machinery

Houchin & Huber, 35 53d, Brooklyn, N. Y.

Drafting Machines

Universal Drafting Machine Co., Blackstone bldg, Cleveland, O.

Drain Tile Machinery

Adrian Mfg. Co., Adrian, Mich.

American Clay Machinery Co., Bucyrus, O., & Willoughby, O.

Anderson Foundry & Machine Works, Anderson, Ind.

BONNOT COMPANY, Canton, O. (See adv. index, end of book)

Brewer, H. & Co., Tecumseh, Mich.

Cement Tile Machinery Co. ("Schenck"), Waterloo, Iowa

Fate, J. D. Co., Plymouth, O.

Freese, E. M. & Co., Gallon, O.

Kells Foundry & Machine Co., Adrian, Mich.

Leader Mfg. Co., Decatur, Ill.

Madden & Co. (Augur Tile Machines), Rushville, Ind.

Martin, Henry Brick Machine Mfg. Co., Lancaster, Pa.

Michigan Brick & Tile Machine Co., Morenci, Mich.

Raymond, C. W. Co., Dayton, O.

SMIDT, F. L. & CO., 39 Cortlandt, New York. (See adv. index, end of book)

Wallace Mfg. Co., Frankfort, Ind.

Draw Bridge Machinery

CURRIER, CYRUS & SONS, Newark, N. J. (See adv. on following page)

Edwards, Jos. & Co. (for Opening Draw Bridges), 414 Water, New York

FAIRBANKS, MORSE & CO., Frank-lin & Monroe, Chicago, Ill. (See adv. index & branch offices, end of book)

FAWCUS MACHINE CO., 2820 Small-man, Pittsburg, Pa. (See adv. index, end of book)

Interstate Engineering Co., Bedford, O. (See adv. index, end of book)

Nichols, Geo. P. & Bro., Old Colony bldg., Chicago, Ill.

Smith, Augustus, 149 B'way, New York

Smith, Theodore & Sons Co., ft of Essex, Jersey City, N. J.

Drawer Fitting Machines

Bentel & Margedant Co. (for Fitting & Sizing Drawers), Hamilton, O.

Dredging Machinery

(See also Excavators, Steam. Also Excavating Machinery.)

Atlantic Equipment Co., 111 B'way, New York

Atlantic, Gulf & Pacific Co., Park Row bldg., New York, & San Francisco, Cal.

Bartlett, A. F. & Co., Saginaw, Mich.

Beatty, M. & Sons, Welland, Ontario, Canada

Bellefontaine Foundry & Machine Co., Bellefontaine, O.

Bucyrus Co., South Milwaukee, Wis.

CADD, E. J. CO., 700-708 S. Caroline, Baltimore, Md. (See adv. index, end of book)

Ellicott Machine Co., Baltimore, Md. (See adv. index, end of book)

Fairbanks Steam Shovel Co. (Steam Dredges), Marion, O.

Featherstone Foundry & Machine Co., 303 Railway Ex., Chicago, Ill.

FLORY, S. MFG. CO., Bangor, Pa. (See adv. index, end of book)

Fritsch, Arthur Foundry & Machine Co. (Self Propelling Hydraulic, 216 Gratiot, St. Louis, Mo.

Globe Iron Works (Inc.), Stockton, Cal.

Golden State & Miners' Iron Works, San Francisco, Cal.

Great Lakes Engineering Works, Rivard & Detroit River, Detroit, Mich.

Hammond Mfg. Co. (Inc.), Portland, Ore.

Hardie Tynes Mfg. Co., Birmingham, Ala.

Hayes Machine Co. (Inc.), Kingston, N. Y.

HAYWARD CO., THE, 99 Cedar, New York. (See adv. index, end of book)

Jackson & Church Co., Saginaw, Mich.

Krogh Mfg. Co., San Francisco, Cal.

Marion Steam Shovel Co., Marion, O.

MUNICIPAL ENGINEERING & CON-tracting Co., Railway Exchange bldg., Chicago, Ill. (See adv. index & branch offices, end of book)

New York Engineering Co., 21 State, New York

Ohio Steam Shovel Co. (Dipper Dredges, etc.), Toledo, Ohio

Osgood Dredge Co., 37 State, Albany, N. Y.

Portland Co., Portland, Me.

Riley & Cowley, Richards, c Bowne, Brooklyn, N. Y.

Risdon Iron Works, Stewart c Folsom, San Francisco, Cal.

Smith, Theo. & Sons Co., foot of Essex, Jersey City, N. J.

Superior Iron Wks., Superior, Wis.

Toledo Foundry & Machine Co., 202 Cherry, Toledo, O.

Treadwell, M. H. & Co., 90 West, New York. Works: Lebanon, Pa.

Urie Boiler & Machine Co., 607 W 5th, Kansas City, Mo.

Vulcan Iron Works, Fulton & Irving av, Chicago, Ill.

Vulcan Iron Works Co. (Bucket & Dipper Dredges), Toledo, O.

Wickes Bros., Saginaw, Mich.

Wickes Bros., Saginaw, Mich.

Wickes Bros., Saginaw, Mich.

Wickes Bros., Saginaw, Mich.

Wickes Bros., Saginaw, Mich.

Wickes Bros., Saginaw, Mich.

Wickes Bros., Saginaw, Mich.

Wickes Bros., Saginaw, Mich.

Wickes Bros., Saginaw, Mich.

Wickes Bros., Saginaw, Mich.

Wickes Bros., Saginaw, Mich.

Wickes Bros., Saginaw, Mich.

Wickes Bros., Saginaw, Mich.

Wickes Bros., Saginaw, Mich.

Wickes Bros., Saginaw, Mich.

Wickes Bros., Saginaw, Mich.

Wickes Bros., Saginaw, Mich.

Wickes Bros., Saginaw, Mich.

Wickes Bros., Saginaw, Mich.

Wickes Bros., Saginaw, Mich.

Wickes Bros., Saginaw, Mich.

Wickes Bros., Saginaw, Mich.

Wickes Bros., Saginaw, Mich.

Wickes Bros., Saginaw, Mich.

Wickes Bros., Saginaw, Mich.

Wickes Bros., Saginaw, Mich.

Wickes Bros., Saginaw, Mich.

Wickes Bros., Saginaw, Mich.

Wickes Bros., Saginaw, Mich.

Wickes Bros., Saginaw, Mich.

Wickes Bros., Saginaw, Mich.

Wickes Bros., Saginaw, Mich.

Wickes Bros., Saginaw, Mich.

Wickes Bros., Saginaw, Mich.

Wickes Bros., Saginaw, Mich.

Wickes Bros., Saginaw, Mich.

Wickes Bros., Saginaw, Mich.

Wickes Bros., Saginaw, Mich.

Wickes Bros., Saginaw, Mich.

Wickes Bros., Saginaw, Mich.

Wickes Bros., Saginaw, Mich.

Wickes Bros., Saginaw, Mich.

Wickes Bros., Saginaw, Mich.

Wickes Bros., Saginaw, Mich.

Wickes Bros., Saginaw, Mich.

Wickes Bros., Saginaw, Mich.

Wickes Bros., Saginaw, Mich.

Wickes Bros., Saginaw, Mich.

Wickes Bros., Saginaw, Mich.

Wickes Bros., Saginaw, Mich.

Wickes Bros., Saginaw, Mich.

Wickes Bros., Saginaw, Mich.

Wickes Bros., Saginaw, Mich.

Wickes Bros., Saginaw, Mich.

Wickes Bros., Saginaw, Mich.

Wickes Bros., Saginaw, Mich.

Wickes Bros., Saginaw, Mich.

Wickes Bros., Saginaw, Mich.

Wickes Bros., Saginaw, Mich.

Wickes Bros., Saginaw, Mich.

Wickes Bros., Saginaw, Mich.

Wickes Bros., Saginaw, Mich.

Wickes Bros., Saginaw, Mich.

Wickes Bros., Saginaw, Mich.

Wickes Bros., Saginaw, Mich.

Gardam, Wm. & Son, 45 Rose, N. Y. city.

Garvin Machine Co., 137 Varick, New York

Gould & Eberhardt, Newark, N. J.

Niles-Bement-Pond Co., 111 B'way, New York

Pratt & Whitney Co., Hartford, Conn.

Stow Mfg. Co., Binghamton, N. Y.

Drilling & Tapping Machines Combined

Baush Machine Tool Co., Springfield, Mass.

Gardam, Wm. & Son (Inc.), 45 Rose, N. Y. city

Niles-Bement-Pond Co., 111 B'way, New York

Pratt & Whitney Co., Hartford, Conn.

Drying Machinery

(See Dryers, various kinds)

Drying Machines (Chemical)

Remmers, B. & Sons, Bourse bldg, Phila., Pa.

Drying Room Machinery

CURRIER, CYRUS & SONS, Newark, N. J. (See adv. on following page)

Duck Slitting Machines

Thropp, Wm. R., Trenton, N. J.

Dye Wood Chipping Machines

Hayes Machine Co. (Inc.), Kingston, N. Y.

Dyeing Machinery

(See Textile Machinery)

Eave Trough Hanger Machines

WILCOX MFG. CO., Aurora, Ill. (See adv. index, end of book)

Eave Trough Wire Hanger Twisting Machines.

CANTON FOUNDRY & MACHINE CO. ("Universal"), Canton, O. (See adv. index, end of book)

Eave Trough & Conductor Pipe Machinery

(See Conductor Pipe & Eave Trough Machinery)

Edging or Lock-Folding Machines

American Can Co. ("Rudolph" & "Krimmell" for Tin & Sheet Metal Work), 135 Adams, Chicago, Ill.

Edging Saw Machines

(See also Woodworking Machinery)

American Wood Working Machinery Co., Rochester, N. Y., West st. bldg, New York

Bentel & Margedant Co., Hamilton, O.

Fay, J. A. & Egan Co., Front c John, Cincinnati, O.

Filer & Stowell Co., Home Office, Milwaukee, Wis.

Garvin Machine Co., 137 Varick, New York

Hobbs Mfg. Co., Worcester, Mass.

Holmes, E. & B. Machinery Co., Buffalo, N. Y.

LANE MFG. CO., Montpelier, Vt. (See adv. index, end of book)

Mecklenburg Iron Works, Charlotte, N. C.

Sinker-Davis Co., Indianapolis, Ind.

Union Iron Works, Bangor, Me.

Wickes Bros., Saginaw, Mich.

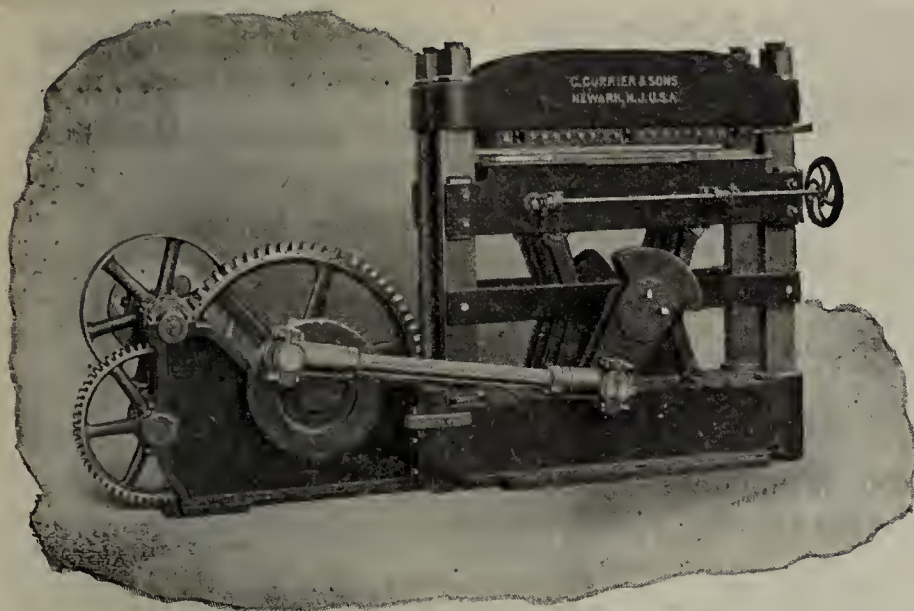
Elbow Seam Closing Machines

NIAGARA MACHINE & TOOL WKS., Buffalo, N. Y. (See adv. index, end of book)

Electric Massage Machines

American Specialty Co., Lansing, Mich.

U. S. Standard Electrical Wks., 48 W. 27th, New York



ESTABLISHED 1842

CYRUS CURRIER & SONS**MACHINISTS AND FOUNDERS****NEWARK, N. J.**

Hydraulic Presses and Accumulators
 Cranes, Pillar and Bridge
 Coating and Varnishing Machines
 Garbage Disposal Machinery
 Machinery for making Artificial Leather
 Paper Mill Machinery
 Transfer Presses, Etc., Etc.

Electric Power & Lighting Machinery

(For page number consult Index of Contents)

Electric Welding Machines

C. & C. Electric Co., Garwood, N. J.
 Standard Welding Co., Cleveland, O.
 Thomson Electric Welding Co., Lynn, Mass.

Electric Wire Making Machinery

AITON MACHINE CO., 126 Liberty,
 New York. Works: Harrison, N. J. (See adv.
 index, end of book)

Electrical Porcelain Machinery

Crossley Mfg. Co. (also Dies, etc.), Trenton,
 N. J.

Electrical Wire & Cable Covering Machinery

(See Wire & Cable Covering Machinery)

Electro-Dental Machinery

Consolidated Dental Mfg. Co., 10 E 23d, New York
 Russell, Percy, 12 E 23d, New York
 White, S. S. Dental Mfg. Co., 5 Union sq, New York

Electro Plating Machines

Bishop, Walter S., Atwater blk, New Haven,
 Conn.

PHOENIX ELECTRIC COMPANY,
 Mansfield, O. (See adv. index, end of book)
 Torrington Mfg. Co. (By Barrel Methods), Torrington, Conn.

Electro & Linotype Sawing Machines

Kidder, R. E., Worcester, Mass.
 Hoe, Rob't & Co., 504 Grand, New York
 Wesel, F. Mfg. Co., 70 Cranberry, B'klyn, N. Y.

Electrotype Machinery

Herrick & Cowell, New Haven, Conn.
 Hollingsworth, Wm., 227 N Holliday, Baltimore, Md.

Electrotype Trimming Machines

Royle, Jno. & Sons (Inc.), Paterson, N. J.

***Elevating & Conveying Machinery**

(See also Conveyors, various kinds; also Cranes, various kinds; also Derricks, various kinds; also Elevators, various kinds; also Hoists, various kinds; also Tramways & Trolleys, Overhead; also Wire Wire Rope Tramways)
 See also Index of Contents for the specific article required.

ALLIS-CHALMERS CO., Milwaukee,
 Wis. (See adv. index & branch offices, end of book)

BALANCED CABLE CRANE CO., THE,
 135 William, New York. (See adv. opp. last page of index)

BARTLETT, C. O. & SNOW CO.,
 Cleveland, O. (See adv. index, end of book)

BONNOT COMPANY, Canton, O. (See
 adv. index, end of book)

DODGE MFG. CO., Mishawaka, Ind.
 (See adv. index & branch offices, end of book)
 Exeter Machine Works, Pittston, Pa.

FLORY, S. MFG. CO., Bangor, Pa.
 (See adv. index, end of book)

Gregg Co. (Ltd.) Newburgh, N. Y.

JEFFREY MFG. CO., Columbus, O.
 (See adv. index & branch offices, end of book)

KINSEY, E. A. & CO., 331 W 4th,
 Cincinnati O. (See adv. index, end of book)

LANE MFG. CO., Montpelier, Vt.
 (See adv. index, end of book)

MEAD-MORRISON MFG. CO., Cambridge, Mass., & 11 B'way, New York. (See adv. index & branch offices, end of book)

NORTHERN ENGINEERING WORKS,
 Chene & Atwater, Detroit, Mich. (See adv. index, end of book)

N. Y. CABLEWAY & ENGINEERING
 Co., 1 Rector, New York. (See adv. index, end of book)

ROBINS CONVEYING BELT CO., 15
 Park row, New York. (See adv. below)

RUSSEL WHEEL & FOUNDRY CO.,
 Detroit, Mich. (See adv. index, end of book)

SCAIFE, WM. B. & SONS CO., 221-
 1st av., Pittsburg, Pa. (See adv. index, end of book)

SPRAGUE CANNING MACHINERY
 Co., 42 River, Chicago, Ill. (See adv. index, end of book)

STANDARD SAND & MACHINE CO.,
 5151 St. Clair, Cleveland, O. (See adv. index, end of book)

WELLER MFG. CO. ("Helicoid"), 118
 North av, Chicago, Ill. (See adv. index, end of book)

WHITING FOUNDRY EQUIPMENT
 Co., Harvey, Ill. (See adv. index & branch offices, end of book)

Elliptic Spring Machinery

Pratt & Whitney Co., Hartford, Conn.

Embossing Machines

BLISS, E. W. CO., 19 Adams, Brook-
 lyn, N. Y. (See adv. index, end of book)

Cavagnaro, Jno. J., 215 Centre, New York, N. Y.

CURRIER, CYRUS & SONS (Presses &
 Rolls for Leather), Newark, N. J. (See adv. above)

Robins Conveying Belt Company,

DESIGNERS AND MANUFACTURERS OF

Conveying and Hoisting Machinery,**BELT CONVEYORS.****BUCKET ELEVATORS.****CABLE RAILWAYS.****STEAM, ELECTRIC & HYDRAULIC HOISTS.****HOISTING TOWERS.****TRAVELING BRIDGES.****SCRAPER CONVEYORS.****WRITE FOR BULLETIN.**

ROBINS CONVEYING BELT CO., - - 19 PARK ROW, - - NEW YORK

Dewes, A., 243 Centre, New York
 Dietz Machine Works (Paper), 126 Fontain, Phila., Pa.
Embossing Art Die & Machine Co., Indianapolis, Ind.
 Firth, Wm. Co. (Leather, Lockett, Crossland & Co.'s), 79 Milk, Boston, Mass.
GRAMMES, L. F. & SONS (Lever, for Wood, Paper, Cloth, Silk, etc.), Allentown, Pa. (See adv. index, end of book)
 Randall & Co. (Leather, etc.), 802 W 6th, Cincinnati, O.
 Royal Machine Co. (Tin, Sheet Metal, Leather, Paper, etc.), 61 N. J. R. R., Newark, N. J.
 Seybold Machine Co., Dayton, Ohio.
Standard Machine Works, Newark, N. J.
 Sheridan, T. W. & O. B. Co. (Bookbinders), 50 Duane, New York, & 413 Dearborn, Chicago, Ill.
Stimpson, Edwin B. & Son (For Leather, Cardboards, etc.), 31 Spruce, New York
 Traud, Alex Co., Newark, N. J.
Union Embossing Machine Co. ("Climax" Wood), Indianapolis, Ind.
 Waldron, John Co., New Brunswick, N. J.

Embossing & Drop Carving Machines

Union Embossing Machine Co. ("New Automatic" & "Climax"), Indianapolis, Ind.

Embroidering Machines

Ahlstrom, O. J., 711 B'way, New York
 Durbrow & Hearne Mfg. Co. ("Bonnoz" & "Swiss"), 12 Wooster, New York

Emery Grinding Machines

(See Grinders, Emery)

Enameled Cloth Machinery

CURRIER, CYRUS & SONS, Newark, N. J. (See adv. index, end of book)

Engraving Machines

Diamond Machine Co., Providence, R. I.
 Field, Chas. H., Providence, R. I.
 Francis, A. E., 780 Cedar av, Cleveland, O.
 Gorton, Geo. Machine Co. (For Engraving Name & Direction Plates), Racine, Wis.

Envelope Machines

Blackhall Mfg. Co., 215 E. Genesee, Buffalo, N. Y.
 Brown Bag Filling Machine Co., Fitchburg, Cooley & Trevor, Hartford, Conn.
 Dietz Machine Works (Open End, Side Seam, etc.), 126 Fontain, Phila., Pa.
 Ermold, Edw., Hudson & 13th, New York.
 Hobbs Mfg. Co., Worcester, Mass.
 Hopkinson Machine Works, 23 Taylor, Springfield, Mass.
 Kidder, R. E., Worcester, Mass.
 Lester & Wasley, Norwich, Conn.
 Rau, Emanuel, 211 Centre, New York
 Powers, Frank B., 52 Taylor, Springfield, Mass.
 Royal Machine Co., 61 N. J. R. R. av, Newark, N. Y.
 Schmidt, F. L., 136 Thompson, New York
 Sherman, John, Worcester, Mass.

Envelope Sealing Machines

Grant Mfg. & Machine Co., Bridgeport, Conn.
 Simplex Mfg. Co. ("Simplex"), 90 West, New York

Excavating Machinery

(See also Dredging Machinery; also Shovels, Steam; also Sewer & Trench Excavating Machines)

Atlantic, Gulf & Pacific Co., Park Row bldg, New York, & San Francisco, Cal.
 Bacon, Earle C., Havemeyer bldg, New York
BALANCED CABLE CRANE CO., THE, 135 William, N. Y. city. (See adv. opp. last page Index of Contents)
 Carson Trench Machine Co., 16 Dorrance, Boston, Mass.
 Dredging & Filling Co., 45 B'way, New York
 Fairbanks Steam Shovel Co., Marion, O.
HAYWARD CO., THE, 99 Cedar, New York. (See adv. index, end of book)
INGERSOLL-RAND CO., 11 B'way, New York. (See adv. index & branch offices, end of book)

JEFFREY MFG. CO., Columbus, O.
 (See adv. index & branch offices, end of book)
 Kingsford Foundry & Machine Works, Oswego, N. Y.

LAMBERT HOISTING ENGINE CO., Main Office & Works, 115-121 Polnier Newark, N. J. (See adv. index and branch offices, end of book)

LIDGERWOOD MFG. CO., 96 Liberty, New York. (See adv. index and branch offices, end of book)

Marion Steam Shovel Co., Marion, O.
 Osgood Dredge Co., Albany, N. Y.
 Portland Co., 58 Fore, Portland, Me.
 Roots, P. H. & F. M. Co., Connorsville, Ind.
SHAW, WILLIS, 171 La Salle, Chicago, Ill. (See adv. index, end of book)
 Smith, Theo. & Sons Co., ft of Essex, Jersey City, N. J.
 Toledo Foundry & Machine Co., Toledo, O.
 Urie Boiler & Machine Co., 607 N 5th, Kansas

Excavating Machinery for Drainage Ditches

AUSTIN, F. C. DRAINAGE EXCAVATOR CO., Railway Exchange, Chicago, Ill. (See adv. index, end of book)

Excavating Machinery for Irrigation Canals

AUSTIN, F. C. DRAINAGE EXCAVATOR CO., Railway Exchange, Chicago, Ill. (See adv. index, end of book)

Excavating & Refilling Machinery

(See also Sewer & Trench Excavating Machines)
BALANCED CABLE CRANE CO., THE, 135 William, New York. (See adv. opp. last page of Index of Contents)

Excelsior Machinery

Fifield Bros., Augusta, Me.
 Fisher & Davis, 1024 N. Main, St. Louis, Mo.
 Humphrey Machine Co., Keene, N. H.
 Indianapolis Excelsior Machinery Co., Indianapolis, Ind.
 Kline, Lewis T. (for the Mfrs. of Excelsior), Alpena, Mich.
 Michels, J. & Co., Detroit, Mich.

Eye Bending or Eye Bolt Machines

Williams, White & Co., Moline, Ill.

Eyelet Machines

Blake & Johnson, Waterbury, Conn.
BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)
 Cross & Speirs Machine Co., Waterbury, Conn.
 Manville Bros., Co., Waterbury, Conn.
 Manville, E. J. Machine Co., Waterbury, Conn.
 Sheridan, T. W. & O. B. Co. (Bookbinders, etc.), 6 Duane, New York
 Shipman, Geo., West Bridge, Waterbury, Mass.
 Standard Machinery Co., Providence, R. I.
 Stimpson, Edwin B. & Son (Gang), 14 Spruce, New York
 United Shoe Machinery Co., 205 Lincoln, Boston, Mass.
 Waterbury Machine Co., Waterbury, Conn.

Face Grinding Machines

(See Grinders.)

Facing Machines (Three-Way)

Beaman & Smith Co., Providence, R. I.

Farm Land Ditching Machines

MUNICIPAL ENGINEERING & CONTRACTING CO., Railway Exchange bldg, Chicago, Ill. (See adv. index & branch offices, end of book)

Faucet or Bibb Re-Seating Machines

Long, Adam A., 13 Graves, Rochester, N. Y.

Feather Dusting Machines

Houchin & Huber, 35 53d, Brooklyn, N. Y.

Feather Washing Machines

Houchin & Huber, 35 53d, Brooklyn, N. Y.

Felloe Machinery

(See Carriage Builders' Machinery)

Felloe Planing Machines

Bentel & Margedant Co., Hamilton, O.

Fence Machines

American Truss Fence Co., Pekin, Ill.
 Bowen Cable Stay Fence Co. ("Bowen" Cable Stay Fence Machines), Norwalk, O.
 Carter, Herman, Mt. Sterling, O.
 Cleveland Fence Machine & Wire Co. ("Loudon," "Champion," for Fence Weaving) Lake & Marquette, Chicago, Ill.
 Cyclone Woven Wire Fence Co. (Chain), Holly, Mich.
 Elliott & Reid Co., Richmond, Ind.
 Eureka Fence Mfg. Co., Richmond, Ind.
 Gem Wire Fence Co., Pontiac, Mich.
 Harris-King Fence Machine Co. (Heavy Automatic), Ashtabula, O.
 Hoefer Mfg. Co., Freeport, Ill.
 Kitselman Bros. (Woven Wire), Muncie, Ind.
 Kokomo Fence Machine Co. (Automatic Woven Wire), Kokomo, Ind.
 Leader Fence Machine Mfg. Co., St. Charles, Ill.
 Lloyd Mfg. Co., Minneapolis, Minn.
 Lyle & Reynolds, Crawfordville, Ind.
 Missouri Anchor Fence Co., St. Joseph, Mo.
 Standard Wire Fence Co., Canandaigua, N. Y.
 Superior Fence Machine Co., Detroit, Mich.
 Torrent Pump & Fence Co., Cleveland, O.
 Weisenborn Mfg. Co., Indianapolis, Ind.
 Willmarth, H. J., Detroit, Mich.

Fertilizer Machinery

(See also Pulverizing Machinery)

Blanchard Machine Co., Boston, Mass.
 Campbell, P. F., 55 Laurel, Phila., Pa.
CODD, E. J. CO., 700-708 S. Caroline, Baltimore, Md. (See adv. index, end of book)
 Dempwolf, C. H. & Co. (Steel Mixers, etc.), York, Pa.
 Marquette, John N., Baltimore, Md.
 Ocala Foundry & Machine Works, Ocala, Fla.
 Sackett, August J., 5th av & First, Baltimore, Md.
SCHULE, F. H. CO., 27 Thames, New York. (See adv. index, end of book)
 Stedman's Foundry & Machine Works, Aurora, Ind.
 Valk & Murdock Iron Works, Charleston, S. C.

Fibre Cleaning Machines

Spangler Mfg. Co. ("Smith" Automatic), York, Pa.

Fibre Machinery

Todd, Joseph C., 203 B'way, New York
 Wood Fiber Machinery Co., Sandusky, O.

Field Coil Winding Machines

Ridlon, Frank Co., 200 Summer, Boston, Mass.

File Machinery

Hess Machine Works (Jno. A. Hess), 2512 Callowhill, Phila., Pa.

File Room Machinery

Covel Mfg. Co., Benton Harbor, Mich.
 Hanchett Swage Wks., Big Rapids, Mich.
 Rotary File & Mach. Co., 589 Kent av, Brooklyn, N. Y.

Filing Machines

Cochrane-Bly Co. (for Sawing Out & Filing Blanking Dies), Rochester, N. Y.
 Detrick & Harvey Machine Co., Baltimore, Md.
 Grant Mfg. & Machine Co., Bridgeport, Conn.
HENRY & WRIGHT MFG. CO., 133 Sheldon, Hartford, Conn. (See adv. index, end of book)
 Simplex Mfg. Co. ("Simplex Combination"), 90 West, New York, N. Y.

Finishing Machines

Rushton-Carrol Co., Olneyville, R. I.

Fire Boat Machinery

ELMES, CHAS. F. ENGINEERING
Works, c. Fulton & N Sangamon, Chicago,
Ill. (See adv. index, end of book)

Fire-Proofing Machinery

American Clay Machinery Co., Bucyrus, O., &
Willoughby, O.
BONNOT COMPANY, Canton, O. (See
adv. index, end of book)
Turner, Vaughn & Taylor Co., Cuyahoga Falls,
O.

Fire-Proofing Paint Machines (Compressed Air)

STANDARD PNEUMATIC SPRAY CO.,
500 5th av, New York. (See adv. index, end
of book)

Fish Line Machinery

Brownell, G. L., Worcester, Mass.

Fishing Net Machinery

Fowler Net & Twine Co., 107 S 2d, Phila., Pa.

Flanging Machines

(See also Presses, Hydraulic Flanging)

Alliance Machine Co., Alliance, O.
Ams, Max Machine Co. (Automatic for Can
Makers), Mt. Vernon, N. Y.
Keene, Geo. C. & Co., 2327 Florence, Cincin-
nati, O.

Loeffler, Chas. & Co. (Can Body, etc.), 63 Cly-
mer, Brooklyn, N. Y.

MORGAN ENGINEERING CO. (Uni-
versal, Hydraulic, for Boiler Heads, etc.),
Alliance, O. (See adv. index, end of book)

NIAGARA MACHINE & TOOL
Works (Sheet Metal), Buffalo, N. Y. (See
adv. index, end of book)

Niles-Bement-Pond Co. (Boiler Head, etc.), 111
B'way, New York

Flint Machines

Koegel, Chas. & Sons, Holyoke, Mass.

Floor Scraping Machines

CONTRACTORS' SUPPLY & EQUIP-
ment Co. ("Little Shaver"), Old Colony bldg,
Chicago, Ill. (See adv. index, end of book)
Hurley Machine Co. ("Little Giant"), 153 S
Jefferson, Chicago, Ill.

Floor Surfacing Machines

American Floor Surfacing Machine Co., Toledo,
O.
Perfect Floor Surfacing Machine Co., 1015 State
av, Cincinnati, O.
Real Estate Improvement Co., 32 Westminster,
Providence, R. I.

Flour Blending Machinery

Wolf Co. (for Bakeries), Chambersburg, Pa.

Flour Mill Machinery

(See also Grain Elevator Machinery, etc.)

Acme Mill Works, Greensboro, N. C.
Albany Iron Works, Albany, Ore.
ALLIS-CHALMERS CO., Milwaukee,
Wis. (See adv. index & branch offices, end
of book)

Barnard Machinery Co., Enterprise, Kan.
Barnard & Leas Mfg. Co., Moline, Ill.
Barnard-Syphers Machinery Co., Spokane, Wash.
Barry-Wehmiller Machinery Co., 21st & Wal-
nut, St. Louis, Mo.

BARTLETT, C. O. & SNOW CO.,
French st., Cleveland, O. (See adv. index,
end of book)

Beall Improvements Co., Decatur, Ill.
Bellock, C. K., 1357 Ridge av, Phila., Pa.
Campbell, P. F., 55 Laurel, Phila., Pa.
Dehner-Wuerpel Mill Bldg. Co., St. Louis, Mo.
De Loach Mill Mfg. Co., Atlanta, Ga.
Ehram, J. B. & Sons Mfg. Co., Enterprise,
Kan.

Essmuller Mill Furnishing Co., 605 S 6th, St.
Louis, Mo.

Flour Mill Machinery Co., Battle Creek, Mich.
Foos Mfg. Co. (Gas & Gasoline Engines, etc.),
Springfield, O.

Great Western Mfg. Co., Leavenworth, Kan.
Hammond-Homberger Co., Silver Creek, N. Y.

Harmon-Whitmore Co., Jackson, Mich.
Honeyman, John & Co., Portland, Ore.

Howes, S. Co., Silver Creek, N. Y.
Huntley Mfg. Co., Silver Creek, N. Y.

Hutchinson, Jno. Mfg. Co., Jackson, Mich.
Invincible Grain Cleaner Co., Silver Creek, N. Y.

Jackson Flour Mill Mach. Mfg. Co., Jackson,
Mich.

Knickerbocker Co., Jackson, Mich.
Meisel Mfg. Co., Port Huron, Mich.

Moore & Lorenz Co., 115 S Clinton, Chicago, Ill.
Munson Bros. Co., Utica, N. Y.

Nashville Machine Co., Nashville, Tenn.
Nordyke & Marmon Co. (All Kinds), Indianap-
olis, Ind.

Portland Iron Works (Inc.), Portland, Oregon
Prinz & Rau Mfg. Co., 659 E Water, Milwau-
kee, Wis.

Richmond City Mill Works, Richmond, Ind.
Richmond Mfg. Co., Lockport, N. Y.

Salzman Mfg. Co., Hamilton, O.
Savage, W. J. & Co., Knoxville, Tenn.

SCHULE, F. H. CO., 27 Thames, New
York. (See adv. index, end of book)

Silver Bros. Iron Wrks. Co., Salt Lake, Utah
Sound Iron Works, Everett, Wash.

Southern Engine & Boiler Wks., Jackson, Tenn.
Sprout, Waldron & Co., Muncy, Pa.

Starr, E. F. Co., 455 North, Baltimore, Md.
Stauffer, Geo. E., E. Stroudsburg, Pa.

Straub Machinery Co., 1956 W 6th, Cincinnati,
O.

Thornburgh, H. L. & Co., 245 S Jefferson,
Chicago, Ill.

Union Iron Works, Decatur, Ill.
Van Camp, Anson, Decatur, Ill.

Willamette Iron & Steel Works, Portland, Ore.
Willford Mfg. Co., 303 S 3d, Minneapolis, Minn.

Wolf Co. (Complete Plants), Chambersburg, Pa.
Ypsilanti Machine Wks., Ypsilanti, Mich.

Flower Pot Machinery

American Clay Machinery Co., Bucyrus, O., &
Willoughby, O.

Crossley Mfg. Co., Trenton, N. J.
Rockwood Mfg. Co., Indianapolis, Ind.

Rockwood Pottery Co., Cincinnati, O.
Tiplin, Rice & Co., Akron, O.

Flue Cleaning Machinery

Quincy-Manchester Sargent Co., Old Colony bldg,
Chicago, Ill. & 114 Liberty, New York

Ryerson, Jos. T. & Son, 18 Milwaukee av,
Chicago, Ill.

Flue Welding Machines

Maddocks & Herschell (Automatic Hand &
Power), Princeton, Ind.

Ryerson, Jos. T. & Son ("Fergusson"), 18
Milwaukee av, Chicago, Ill.

Fluting & Plaiting Machines

North Bros. Mfg. Co. ("Crown & Knox,"
"American" & "Eagle" Fluting Machines),
Lehigh av & American, Philadelphia, Pa.

Fly Inserting Machines

Hobbs Mfg. Co. (For Paper Box Makers), Wor-
cester, Mass.

Folding Machines (Paper)

Sheridan, T. W. & C. B. Co., 56 Duane, New
York, & 413 Dearborn, Chicago, Ill.

Fly Papering Machines

Frankard, C. J. & Sons, Troy, N. Y.

Foot Punching Machines

GRAMMES, L. F. & SONS (For Card
& Strawboard & Thin Metals), Allentown,
Pa. (See adv. index, end of book)

Forging Machines

(See also Hammers, Power; also Presses, Power;
also Presses, Hydraulic Forging).

Acme Machinery Co., Cleveland, O.
Ajax Mfg. Co., Cleveland, O.

American Machinery Co. ("Greenwood"), Will-
oughby, O.

Beaudry & Co. (Inc.) (Forging Presses), 141
Milk, Boston, Mass.

Bethlehem Steel Co., South Bethlehem, Pa., &
100 B'way, New York

Billings & Spencer Co., Hartford, Conn.

BLISS, E. W. CO., 19 Adams, Brook-
lyn, N. Y. (See adv. index, end of book)

Chambersburg Engineering Co. (Forging Presses,
Hydraulic), Chambersburg, Pa.

MERRILL BROS. (Hammers), 465
Kent av., Brooklyn, N. Y. (See adv. index,
end of book)

Merriman, A. H., Meriden, Conn.

MORGAN ENGINEERING CO., AI-
liance, O. (See adv. index, end of book)

National Machinery Co., Tiffin, O.

Niles-Bement-Pond Co., 111 B'way, New York

Pawtucket Mfg. Co., Pawtucket, R. I.

Sutton, C. E. Co. (Horizontal Forging Presses,
etc.), Toledo, O.

Forging Machines (Hydraulic)

Bethlehem Steel Co., So. Bethlehem, Pa., & 100
B'way, New York

MORGAN ENGINEERING CO., AI-
liauce, O. (See adv. index, end of book)

Forging Machines (Sheet Work)

BLISS, E. W. CO., 19 Adams, Brook-
lyn, N. Y. (See adv. index, end of book)

Forging & Bending Machines

BLISS, E. W. CO., 19 Adams, Brook-
lyn, N. Y. (See adv. index, end of book)

Forming & Bending Machines

(See also Wire Forming Machines; also Wood
Forming Machines).

Adriance Machine Works, Brooklyn, N. Y.

Ajax Mfg. Co., Cleveland, O.

Americau Can Co. (For Tin & Sheet Metal), 135
Adams, Chicago, Ill.

Badger State Machine Co., Janesville, Wis.

Baird Machine Co., Oakville, Conn.

Baker, Jas. H. Mfg. Co., Park bldg., Pitts-
burg, Pa.; Works, Tarentum, Pa.

Bertsch & Co., Cambridge City, Ind.

Blake & Johnson (Wire, etc.), Waterbury, Conn.

BLISS, E. W. CO. (Can Body, etc.), 19
Adams, Brooklyn, N. Y. (See adv. index,
end of book)

Consolidated Press & Tool Co., 96 N. Clinton,
Chicago, Ill.

Coulter & McKenzie Machine Co. (for Wire &
Sheet Metals), Bridgeport, Conn.

Hartford Machine Screw Co., Hartford, Conn.

Hilles & Jones Co., Wilmington, Del.

Lang, E. M. Co., Portland, Me.

Leffler, Chas. & Co. (Can Forming, Bending,
etc.), 63 Clymer, Brooklyn, N. Y.

Long & Alistatter Co. (Horizontal), Hamilton,
O.

NIAGARA MACHINE & TOOL
Works (Sheet Metal), Buffalo, N. Y. (See
adv. index, end of book)

Niles-Bement-Pond Co., 111 B'way, New York

Ohl, Geo. A. & Co., 157 Oraton, Newark, N. J.

Peck, Stow & Wilcox Co. (Sheet Metal), South-
ington, Conn.

Pittsburg Mfg. Co., Pittsburg, Pa.

Pocock, Oliver (Sheet Metal), 1042 Harriett,
Cincinnati, O.

Robinson, J. M. Mfg. Co. (Sheet Metal), Cin-
cinnati, O.

Swaine, Fred. J. Co. (Can Body), St. Louis, Mo.

Tivel's John Sons (Inc.), Newburgh, N. Y.

Wallace Supply Co., 169 Jackson boul., Chicago,
Ill.

WATSON-STILLMAN CO., 26 Cort-
landt, New York city. (See adv. index, end
of book)

Waterbury Machine Co., Waterbury, Conn.

Whiting, Geo. C. (Forming), 156 W. North av,
Chicago, Ill.

Williams, White & Co., Moline, Ill.

Wood, Wm. H., Media, Pa.

**When writing to firms listed
in this book please mention
HENDRICKS'
COMMERCIAL REGISTER**

*Foundry Machinery

(See also the Specific Article Required).

Allen, Chas. G. Co., Barre, Mass.
INGERSOLL-RAND CO., 11 B'way,
 New York. (See adv. index & branch offices,
 end of book)

SHUSTER, F. B. CO., New Haven,
 Conn. (See adv. index, end of book)

WHITING FOUNDRY EQUIPMENT
 Co., Harvey, Ill. (See adv. index & branch
 offices, end of book)

Foundry Molding Machines

(See Molding Machines, Foundry)

Fourdrinier & Cylinder Paper Machines

Moore & White Co., 15th & Lehigh av., Phila.,
 Pa.
 Sandy Hill Iron & Brass Works, Sandy Hill,
 N. J.

Fraying Machines (Carpet)

Reed Mfg. Co. (Hand & Power), Springfield, O.

Freight Handling Machines

(See Conveyors, Freight)

Fruit Cleaning & Breaking Machinery

American Fruit Machinery Co., Drexel bldg,
 Phila., Pa.

Fruit Grading & Packing Machines

Anderson-Barngrover Mfg. Co., San Jose, Cal.

Fruit Package Stapling Machines

(See Wire Stapling Machinery).

Fruit Wrapping & Wrapper Printing Machines

Tripp Fruit Wrapping Machine Co., 416 San-
 som, San Francisco, Cal.

Fuel Briquetting Machinery

Chicago American Fuel Briquetting Co. (For
 Coal, Peat, Lignite, etc.), 97 Clark, Chic-
 go, Ill.

Fur Dressing Machinery

Piel, Bernard F. (Tramping & Tanning Ma-
 chines, etc.), 56 Humboldt, Brooklyn, N. Y.

Furnace Charging Machines

Hogg, Geo. A. Iron & Steel Foundry Co. ("Free-
 man," for Annealing Furnaces), 24th & A.
 V. R'y, Pittsburg, Pa.
MORGAN ENGINEERING CO. (For
 Both Horizontal & Vertical Furnaces), Al-
 liance, O. (See adv. index, end of book)

Furnace Pipe Seaming Machines

NIAGARA MACHINE & TOOL WKS.,
 Buffalo, N. Y. (See adv. index, end of book)

Furniture Nail Machines

Blake & Johnson, Waterbury, Conn.

Gaining Machines

Bentel & Margedant Co. (Automatic Travers-
 ing, Triple Axle Car & Gang), Hamilton,
 O.

Galvanizing Machinery

Bair & Gazzam Mfg. Co., 29th & Smallman,
 Pittsburg, Pa.
 Keystone Nail Co. ("Porter" for Small Articles),
 1618 Wash'n av., Phila., Pa.

Gang Drilling Machines

American Wood Working Machinery Co., Roches-
 ter, N. Y., & West St. bldg, New York
 Fay, J. A. & Egan Co., Cincinnati, O.
 Pratt & Whitney Co. (Upright Gang), Hartford,
 Conn.
 Williams, White & Co. (6 to 10 Holes in Wood),
 Moline, Ill.

Garbage Disposal Machines

CURRIER, CYRUS & SONS, Newark,
 N. J. (See adv. index, end of book)
 Kutztown Foundry & Machine Co., Kutztown,
 Pa., & Fidelity bldg, Phila., Pa.

Gas Machines

Clingman Gas Mach. Co., Dayton, O.
 Coleman Gas Works Mfg. Co., 8th & Main, Cin-
 cinnati, O.
 Detroit Heating & Lighting Co., Wight n' Leib.
 Dodge Air-Gas Co. (Dodge Air-Gas Plant), 356
 Dearborn, Chicago, Ill.
 East, Iron & Machine Co., Lima, O.
 Epworth Gas Light & Heating Co., Waterloo, Ia.
 Gilbert & Barker Mfg. Co. ("Springfield"),
 Springfield, Mass.
 Globe Heat & Light Co., 218 La Salle, Chicago,
 Ill.
 Hinman Gas Machine Co., 7 Sherman, Boston,
 Mass.
 Imperial Gas Machine Co., 32 Park pl, N. Y.
 Incandescent Light & Stove Co., 420 E. Pearl,
 Cincinnati, O.
 Kemp, C. M. Mfg. Co., 401 E. Oliver, Balti-
 more, Md.
 Matthews Gas Machine Co., 40 Dearborn, Chi-
 cago, Ill.
 National Light & Heating Co., Freeport, O.
 Novelty Iron Works, Sterling, Ill.
 Penna. Globe Gaslight Co., Broad & Arch,
 Philadelphia, Pa.
 Tirrill's Gas Machine Lighting Co., 14 Com-
 mercial, Newark, N. J.
 Walworth Mfg. Co., 132 Federal, Boston, Mass.,

Gas Machines (Acetylene)

Acetylene Apparatus Mfg. Co. (Pilot, Model D),
 157 Michigan av, Chicago, Ill.
 Acetylene Generator & Mfg. Co. (Abner Giant),
 Wapakoneta, O.
 Bay State Acetylene Generator Co., Taunton,
 Mass.
 Beaver Mfg. Co. (McKenzie), Beaver, Pa.
 Colt, J. B. Co. (Model N), 21 Barclay, New York
 Davis Acetylene Co. (Carbide Feed), Elkhart,
 Ind.
 Eagle Generator Co. ("Eagle," Automatic), 1530
 Pine, St. Louis, Mo.
 Epworth Gas Light & Heating Co. (Ideal Ep-
 worth, Type D), Waterloo, Ia.
 General Acetylene Co. (General), 80 B'way,
 New York
 Hill, Almon F. ("Hill" Storage), Portland, Me.
 Hunter's Acetylene Gas Co. (Hunter Plunger),
 Chicago, Ill.
 Iowa Gas Machine Co., Waterloo, Ia.
 Kemp, C. M., Mfg. Co., 401 E Oliver, Baltimore,
 Md.
 Lynch, G. R. Mfg. Co. ("Aurora"), Chatta-
 nooga, Tenn.
 Miller Bros. Co. ("Daisy, Jr.," Generator), De-
 troit, Mich.
 New England Mfg. Co. (Phelps Carbide Feed),
 59 Clark, Chicago, Ill.
 Perry, A. M. & Co., Waterloo, Ia.
 Power Specialty Co., 111 B'way, New York
 Rushmore Dynamo Works, Plainfield, N. J.
 Sunlight Gas Machine Co. ("Omega"), 49 War-
 ren, New York
WILSON, F. CORTEZ & CO., 239
 Lake, Chicago, Ill. (See adv. index, end
 of book)
 Wing, L. J. Mfg. Co., 136 Liberty, New York

Gas Machines (Gasoline)

Clingman Gas Machine Co., Dayton, O.
 Dodge Air-Gas Co. (Dodge Air-Gas Plant), 356
 Dearborn, Chicago, Ill.
 Economy Gas Machine Co. ("Economy"), Roches-
 ter, N. Y.
 Incandescent Light & Stove Co., 420 E Pearl,

Cincinnati, O.
 Matthews Gas Machine Co., 40 Dearborn, Chi-
 cago, Ill.
 Michigan Brick & Tile Machine Co. (Gas Gener-
 ators), Morenci, Mich.
 Swen Gas Machine Co., Waterloo, Ia.

Gas Machines (Naphtha Gas)

AMERICAN GAS FURNACE CO., 24
 John, New York, & Elizabeth, N. J. (See
 adv. index end of book)
 Gilbert & Barker Mfg. Co., Springfield, Mass.

*Gas Power & Lighting Ma- chinery

GAS POWER CO., New York. (See
 adv. index, end of book)

Gas Pumping Machinery

Bovaird & Seyfang Mfg. Co., Bradford, Pa.
GAS POWER CO., New York. (See
 adv. index, end of book)
OIL WELL SUPPLY CO., 215 Water,
 Pittsburg, Pa. (See adv. index, end of book)
 Otto Gas Engine Works, 360 Dearborn, Chi-
 cago, Ill.

Gas Works Machinery

(See also Gas Works Apparatus & Construction)
 Murray-Kerr Mfg. Co., Fort Wayne, Ind.
 Pollock, Wm. B. Co., Youngstown, O.
 Riter-Conley Mfg. Co., Pittsburg, Pa.
ROBINS CONVEYING BELT CO., 19
 Park row, New York. (See adv. index, end
 of book)
 Western Gas Construction Co., Ft. Wayne, Ind.
 Wood, R. D. & Co., 400 Chestnut, Phila., Pa.

Gate Hook Machines (Auto- matic)

Nilson, A. H. Machine Co., Bridgeport, Conn.

Gear Cutting Machines

Adams Co., Dubuque, Ia.
 American Watch Tool Co., Waltham, Mass.
 Becker, Brainard Milling Machine Co. (Auto-
 matic), Hyde Park, Mass.
 Blount & Lovell, 100 High, Boston, Mass.
 Brown & Sharpe Mfg. Co. (Automatic, etc.),
 Providence, R. I.
 Bultman, F. H. & Co., 2108 Superior Viaduct,
 Cleveland, O.
 Eagle Gear & Machine Co. (Special), Oxford &
 Mascher, Phila., Pa.
 Eagle Tool & Machine Co. (Special Tools &
 Machinery), 519 Ann, Alleghany, Pa.
 Eberhardt Bros. Machine Co., 66 Union, New-
 ark, N. J.
 Fellows Gear Shaper Co., Springfield, Vt.
 Foote Bros. Gear & Machine Co., 30 S Clinton,
 Chicago, Ill.
FREVERT MACHINERY CO., 18 Dey,
 New York. (See adv. index, end of book)
 Garvin Machine Co., 137 Varick, New York
 Gleason Works, Rochester, N. Y.
 Gould & Eberhardt (Automatic Steel Gear &
 Pinion Cutting Machines, etc.), Newark,
 N. J.
 Harrington, Edwin, Son & Co., 17th & Callow-
 hill, Phila., Pa.
 Herrick, Chas. E., Northampton, Mass.
 Kentucky Gear & Machine Co. ("The Binder"),
 Louisville, Ky.
KINSEY, E. A. & CO., 331 W 4th,
 Cincinnati O. (See adv. index, end of book)
MANNING, MAXWELL & MOORE, 85,
 87 & 89 Liberty, New York. (See adv. in-
 dex & branch offices, end of book)
 Matchless Cigar Lighter Mfg. Co. (Automatic),
 133 Floyd, Brooklyn, N. Y.
 Newton Machine Tool Works (Inc.), 2347 Vlna,
 Philadelphia, Pa.
 Niles-Bement-Pond Co., 111 B'way, New York
 Pratt & Whitney Co. (Involute & Epicycloidal),
 Hartford, Conn.
 Putnam Machine Co. (Involute & Epicycloidal),
 Fitchburg, Mass.
 Slate, Dwight Machine Co., Hartford, Conn.
 Sloan & Chase Mfg. Co. (Ltd.) (Automatic),
 Newark, N. J.
TUOHY BROS. CO., 95 Liberty, New
 York. (See adv. index, end of book)
 Whiton, D. E. Machine Co., New London, Conn.
 Wolf Co. (Inc.), Chambersburg, Pa.

Gear Testing Machines

MORSE TWIST DRILL & MACHINE
Co., New Bedford, Mass. (See adv. index,
end of book)

Gelatine Coating Machines

Colton, Arthur, Brush & Macomb, Detroit,
Mich.

Gin Saw Filing Machines & Gummars

Carver Cotton Gin Co., East Bridgewater, Mass.

Glass Beveling Machinery

Lange, Henry G., 22 N May, Chicago, Ill.

Glass Blowing Machines

Sommerfeld Machine & Mfg. Co., 220 2d av,
Pittsburg, Pa.

Glass House Machinery

Acton, John (Glass Roughing, Smoothing, etc.),
118 John, Brooklyn, N. Y.
Centre Foundry, Wheeling, W. Va.
Evans Mold & Machine Co., Uniontown, Pa.
Muncie Foundry & Machine Co., Muncie, Ind.
Sommerfeld Machine & Mfg. Co., 220 2d av,
Pittsburg, Pa.
Wheeling Mold & Foundry Co., Wheeling,
W. Va.

Glass Polishing Machines

Acton, John, 118 John, Brooklyn, N. Y.
Stow Flexible Shaft Co., N. 26th & Button-
wood, Phila., Pa.

Glossing Machines

Chambers Bros. Co., 52d below Lancaster av,
Philadelphia, Pa.

Glove Machinery, Etc.

Allfrey, Henry (Steam Laying-off Boards, etc.),
Johnstown, N. Y.
Anthony, H. J. (Glove Cutting Dies & Presses,
etc.), Gloversville, N. Y.
Curtin, Herbert Mfg. Co. (Special Machine &
Glove Sewing Machines, etc.), Gloversville,
N. Y.
Haag, Jacob (Glove Cutting Dies, etc.), Glov-
ersville, N. Y.

Glue Factory Machinery

Joslin, Schmidt & Co., Cincinnati, O.
SCHULE, F. H. CO., 27 Thames, New
York (See adv. index, end of book)

Glue Jointing Machines

Linderman Mfg. Co., Muskegon, Mich.

Glue Spreading Machines

Boyle, John Machine Co., Peabody, Mass.
Fischer, E. Machine Works (for Box Factories),
710 Carroll av., Chicago, Ill.
Francis, Chas. E. & Bro., 425 E 8th, Cincinnati,
Ohio
Grand Rapids Veneer Works, Grand Rapids,
Mich.
HAMMACHER, SCHLEMMER & CO.
(Hand & Power), 133 4th av, New York.
(See adv. index, end of book)
Towsley, Jno. T. Mfg. Co., Evans nr Gest, Cin-
cinnati, O.

Gold Dredging Machinery

(See Dredges, Gold & Placer Mining.)

Graduating Machines

Altender, Theo. & Sons, 945 Ridge av, Phila.,
Pa.
Hope, Jno. & Sons, Eng. & Mfg. Co., Provid-
ence, R. I.
LeBlond, R. K. Machine Tool Co., Cincinnati, O.

**Grain Cleaning & Grading Ma-
chinery**

(See also Flour Mill Machinery.)

Barnard & Leas Mfg. Co., Moline, Ill.
Best Mfg. Co., San Leandro, Cal.
Campbell, P. F., 55 Laurel, Phila., Pa.
Howes, S. Co., Silver Creek, N. Y.
Huntley Mfg. Co. ("Monitor" for elevators),
Silver Creek, N. Y.
Invincible Grain Cleaner Co., Silver Creek, N. Y.
Johnson & Field Mfg. Co., Racine, Wis.
Messinger, S. S. & Son, Tatamy, Pa.
Nordyke & Marmon Co., 1101 Morris, Indian-
apolis, Ind.
Owens, J. L. Co., Minneapolis, Minn.
Portland Iron Works (the Eureka), Portland,
Oreg.
Prinz & Rau Mfg. Co. (Iron Prince Scourer),
Milwaukee, Wis.
SCHULE, F. H. CO., 27 Thames, New
York (See adv. index, end of book)
Stevens Mfg. Co., Joliet, Ill.

Grain Elevator Machinery & Appliances

American Cushion Elbow Co., 81 Fulton, N. Y.
Barnard-Syphers Machinery Co., Spokane, Wash.
Barry-Wehmiller Mach. Co., 21st & Walnut, St.
Louis, Mo.
Caldwell, H. W. & Son Co., 17th & Western av,
Chicago
Des Moines Mfg. & Supply Co., 101 E. Court av,
Des Moines, Ia.
Diamond Iron Works, Minneapolis, Minn.
DODGE MFG. CO., Mishawaka, Ind.
(See adv. index & branch offices, end of book)
Ehram, J. B. & Sons Mfg. Co., Enterprise,
Kan.
Gill, P. H. & Sons, Lorraine & Otsego, Brook-
lyn, N. Y.
Globe Machinery & Supply Co., Des Moines, Ia.
Great Western Mfg. Co., Leavenworth, Kan.
Holbrook, C. D. & Co., 305 3d, S. Minneapolis.
Howes, S. Co., Silver Creek, N. Y.
JEFFREY MFG. CO., Columbus, O.
(See adv. index & branch offices, end of book)
Link Belt Co., W. 39th cor Stewart av, Chi-
cago, Ill., & 299 B'way, New York
Marseilles Mfg. Co., Marseilles, Ill.
Mey Chain Belting Engineering Works, 14
Perry, Buffalo, N. Y.
MINNEAPOLIS STEEL & MACHIN-
ery co., Minneapolis, Minn. (See adv. in-
dex & branch offices, end of book)
Moore & Lorenz Co., 816-822 Fulton, Chicago,
Ill.
Nordyke & Marmon Co., Indianapolis, Ind.
Poole Engineering & Machine Co., Woodberry
Station, Baltimore, Md.
SCHULE, F. H. CO., 27 Thames, New
York (See adv. index, end of book)
Skillin & Richards Mfg. Co., 147 Fulton,
Chicago, Ill.
Webster Mfg. Co., 1075 W 15th, Chicago, Ill.
WELLER MFG. CO., 124 E. North
av, Chicago, Ill. (See adv. index, end of book)
York Fdry. & Machine Wks., York, Neb.

**Granite Column Cutting Ma-
chines**

St. Cloud Iron Works, St. Cloud, Minn.

**Granite & Marble Polishing
Machinery**

(See also Stone Polishing Machinery)

HARRISON SUPPLY CO., 5 & 7 DOR-
chester av, Extension, Boston, Mass. (See
adv. index, end of book)

Granulating Machines

Colton, Arthur, Brush & Macomb, Detroit,
Mich.
Mulford, H. K. Co., 412 S 13th, Phila., Pa.
Simpson, Jas. S., 28 Rodney, Brooklyn, N. Y.

**Grape Stemmer & Crushing
Machines**

Klotz Machine Co., Sandusky, O.

Gravity Incline Machines

WELLMAN-SEAEVER-MORGAN CO.,
Cleveland, O., & Akron, O. (See adv. in-
dex, end of book)

**Green Pea Cleaning & Grading
Machines**

Howes, S. Co., Silver Creek, N. Y.
Huntley Mfg. Co. ("Monitor"), Silver Creek,
N. Y.
Invincible Grain Cleaner Co., Silver Creek, N. Y.
SPRAGUE CANNING MACHINERY
Co. ("Clipper," "Eureka" & "Monitor"), 42
River, Chicago, Ill. (See adv. index, end of
book)

Grinding Machinery

See Grinders.
Also Mills, Grinding.
Also Paint Grinding & Mixing Machinery.
Also Pulverizing Machinery

Grinding & Polishing Machines

Blount, J. G. Co. (Grinding, Polishing & Buff-
ing Machines Combined), Everett, Mass.
Diamond Machine Co. (Swing Frame), Provid-
ence, R. I.

Grommet Setting Machines

Stimson, Edwin B. & Son, 31 Spruce, New
York

Grooving Machines

Chase Turbine Mfg. Co. ("Chase's" Automatic),
Orange, Mass.

Grubbing Machines

Caward, R. S., Cresco, Ia.
Mohland & Co., Burlington, Ia.
Morrison, S. M. Mfg. Co., Denver, Col.
New Century Mfg. Co. ("Steel Giant"), Roches-
ter, N. Y.
Smith, W. Grubber Co., La Crosse, Wis.

Gun Barrel Drilling Machinery

Diamond Machine Co., Providence, R. I.
Niles-Bement-Pond Co., 111 B'way, New York
Pratt & Whitney Co., Hartford, Conn.
Reed, F. E. Co., Worcester, Mass.

Gun Barrel Reaming Machines

Diamond Machine Co., Providence, R. I.
Reed, F. E. Co., Worcester, Mass.

Gun Barrel Turning Machines

Reed, F. E. Co., Worcester, Mass.

Gun Loading Machinery

Ideal Mfg. Co., New Haven, Conn.

Gun Powder Machinery

Allentown Foundry & Machine Works Co., Allen-
town, Pa.
Scott, Olin, Bennington, Vt.

Gun Stock Machinery

DEFIANCE MACHINE WORKS, De-
fiance, O. (See adv. index, end of book)

Gutta Percha Machinery

AITON MACHINE CO., 126 Liberty,
New York. Works: Harrison, N. J. (See
adv. index, end of book)

Gutter Forming Machines

Double Truss Cornice Brake Co., Buffalo, N. Y.
NIAGARA MACHINE & TOOL
Works, Buffalo, N. Y. (See adv. index, end
of book)

Gypsum Machinery

(See also Plaster Machinery.)

Butterworth & Lowe (Inc.), Grand Rapids, Mich.
Cummer, F. D. & Son Co., Cleveland, O.
Des Moines Mfg. & Supply Co., Des Moines,
Iowa

Hack Saw Machines

(See also Saw Blades & Frames, Hack.)

Atkins, E. C. & Co., Indianapolis, Ind.
 Athol Machine Co., Athol, Mass.
 Dayton Machine Works ("Victor"), Dayton, O.
 Diamond Saw & Stamping Works ("Sterling"
 Gears & Milled & Swivel Vise), 357 7th,
 Buffalo, N. Y.
 Disston, Henry & Sons, Tacony, Phila., Pa.
 Euchenhofer, E. E., Dayton, O.
 Goodell-Pratt Co. (The "G"), Greenfield, Mass.
 Hoefler Mfg. Co., ("Hoefler," for Metal), Free-
 port, Ill.
 Millers Falls Co. ("Star"), 28 Warren st.,
 New York, & Millers Falls, Mass.
 Montgomery & Co., 105 Fulton, New York
 Olmstead, L. H. ("Olmsted's," for Metal),
 Hasbrouck Heights, N. J.
 Patterson Tool & Supply Co. ("Challenge"),
 Dayton, O.
 Quincy-Manchester-Sargent Co. ("Q. & C."), Old
 Colony bldg., Chicago, Ill., & 114 Liberty,
 New York
 Robertson Mfg. Co. (Electrically Driven), Buf-
 falo, N. Y.
 Simplex Mfg. Co. ("Simplex" Combination
 Bench Filer & Hack Saw), 90 West, N. Y.
 Story, H. T. (Draw Cut), 30 W. Randolph, Chi-
 cago, Ill.
STRONG, CARLISLE & HAMMOND
 Co. (The "Victor" Power), Cleveland, Ohio.
 (See adv. index, end of book)
 Thompson, Henry G. & Son Co. ("Eureka"),
 New Haven, Conn.
 West Haven Mfg. Co. ("Globe," "Universal"),
 New Haven, Conn.

Hair Washing Machines

Baker, G. W. & Co., Wilmington, Del.

*Hammer & Hatchet Handle Machinery

DEFIANCE MACHINE WORKS, Defi-
 ance, O. (See adv. index, end of book)

Hand Bending Machines

Estep & Dolan, Sandwich, Ill.
 Freemaun, A. W., 67 N. J. R. R. av., Newark,
 N. J.
NIAGARA MACHINE & TOOL WORKS,
 Buffalo, N. Y. (See adv. index, end of book)

Hand Hole Cutting Machines

Chase Turbine Mfg. Co., Orange, Mass.
 Filscher Machine Works (Automatic for Wood),
 345 Canal, Chicago, Ill.

Hand Milling Machines

(See Milling Machines, Hand)

Hand Numbering Machines

Bates Mfg. Co., Orange, N. J.

Hand Shearing Machines

New Doty Mfg. Co., Janesville, Wis.
 Niles-Bement-Pond Co., 111 B'way, New York
 Pels, Henry & Co., 66 Broad, New York

Hand & Foot Power Machinery

(See Woodworking Machinery, Hand & Foot
 Power)

Handle Blank Sawing Machines

Trevor Mfg. Co. (Automatic), Lockport, N. Y.

Handle Polishing Machines

DEFIANCE MACHINE WORKS (Au-
 tomatic), Defiance, O. (See adv. index, end
 of book)

Handle Tumbling Machines

Trevor Mfg. Co. (For Smoothing Handles),
 Lockport, N. Y.

Handle Turning Machinery

(See Lathes, Handle Turning.)

Hardware Machinery

Herrick & Cowell, New Haven, Conn.

Harness Machinery

International Harness Machinery Co., Cincin-
 Randall & Co., Cincinnati, O. natl, O.
 Ross-Moyer Mfg. Co., Cincinnati, O.
 Smith, F. H. Mfg. Co., 52 St. John's st., Chi-
 cago, Ill.

Harness Riveting Machines

Smith, F. H. Mfg. Co., 52 St. Johns st., Chi-
 cago, Ill.

Harness Sewing Machines

Campbell-Boswell Machinery Co. ("Camp-
 bell" Lock Stitch Wax Thread), 205 Lincoln,
 Boston, Mass.
 International Harness Machinery Co. (Wax
 Thread), Cincinnati, O.
 Landis Machine Co. (Wax Thread), St. Louis,
 Mo.
 O'Flaherty, Jno. Co. (Big Shuttle Lock Stitch,
 Wax Thread), Rouse Point, N. Y.
 Randall & Co., Cincinnati, O.

Harvesting Machinery

(See Harvesters, Various Kinds.)

Hatters' Machinery

Almond, David, Newark, N. J.
 Doran Bros., Danbury, Conn.
 Dubrow & Hearne Mfg. Co., 12 Wooster, N. Y.
 Heim Machine Co., Danbury, Conn.
 McGill-Ives-Agar Hat Curling Machine Co., 17
 Wash'n pl, New York
 Morelock & Husk, Danbury, Conn.
 Muller, Fred. 214 M. & E. R. R. av., Newark.
 New Machine Co., Danbury, Conn. N. J.
 Newark Hat Block & Machine Co., Newark,
 N. J.
 Reed, Chas., Danbury, Conn.
 Turner Machine Co., Danbury, Conn.
 Yule & Carley Mfg. Co., Newark, N. J.

Head Boring Machines

Moline Tool Co. (For Boring Heads of Wash-
 ing Machines), Moline, Ill.

Heading, Upsetting & Forging Machines (Combined)

Ajax Mfg. Co., Cleveland, O.

Heating Machines

(See Annealing Machines; also Furnaces, An-
 nealing & Case Hardening)

Hide & Leather Working Machinery

Baker, G. W. & Co., Wilmington, Del.
 Boyle, John Machine Co. (Shaving Machine),
 Peabody, Mass.
 Bowers, Albert M. (Paddle Tubs, Tanning Mills,
 Finishing Machines, Stretching Frames, etc.),
 127 N. J. R. R. av., Newark, N. J.
 Corwin Mfg. Co., Peabody, Mass.
 Evans' John Sons, 13th & Buttonwood, Phila.,
 Pa.
 Freeman, J. T. & Co. (Whitening Machines,
 Stuffing & Fanning Mills, Wash Wheels,
 etc.), Woburn, Mass.
 Hide & Leather Wrkg. Machine Co. (Tanning &
 Currying Machines, Parts, Tools, etc.), Mil-
 waukee, Wis.
 Holmes, Chas. Machine Co., 299 Marginal, E.
 B, Boston
 Hutchinson Hide & Leather Machine Co., Win-
 chester, Mass.
 Loy & Mawrath, 25 Runyon, Newark, N. J.
 Martin, Wm. F. (Tan Presses, Finishing Ma-
 chines, etc.), Salem, Mass.
 Modern Machinery Co., Wilmington, Del.
 Munkwitz, Edw. H. Co., Milwaukee, Wis.
 Peabody Leather Machinery Co., Peabody, Mass.
 Slocumb, F. F. & Co. (Stalking & Glazing
 Machines, etc.), Wilmington, Del.
 Turner Tanning Machinery Co., Peabody, Mass.
 Wood, Wm. O. (Agent) (Leather Measuring Ma-
 chines), Davenport, Ia.

Hinge & Butt Machinery

Baird Machine Co., Oakville, Conn.
 Ferracute Machine Co., Bridgeton, N. J.
 Waterbury Farrel Foundry & Machine Co.,
 Waterbury, Conn.

Hod Hoisting Machines

(See Elevators, Hod)

Hoe Handle Machinery

DEFIANCE MACHINE WORKS, Defi-
 ance, O. (See adv. index, end of book)

Hoe Rolling Machines

Birmingham Iron Foundry, Derby, Conn.

Hoisting Machinery

(See Cranes; also Derricks; also Hoisting En-
 gines; also Hoists of various kinds; also
 Wire Rope Tramways, etc.)

Hollow Building Block Machinery

(See Clay Building Block Machinery; also Con-
 crete Building Block Machinery)

Hollow Chisel Mortising Machines

DEFIANCE MACHINE WORKS, Defi-
 ance, O. (See adv. index, end of book)

Hook Bending Machines

American Can Co. (Single & Double Rail Hook;
 Former for Lard Pails, Paint Buckets, etc.),
 135 Adams, Chicago, Ill.

Hook & Eye Machinery

Baird Machine Co., Oakville, Conn.
 Manville, E. J. Machine Co., Waterbury, Conn.
 Nilson, A. H. Machine Co. (Automatic), Bridge-
 port, Conn.
 Special Machinery Co. (Automatic), Bridgeport,
 Conn.

Hoop Machinery

(See also Barrel Machinery)

Bartlett, A. F. & Co., Saginaw, Mich.
DEFIANCE MACHINE WORKS, Defi-
 ance, O. (See adv. index, end of book)
 Merritt Mfg. Co. ("Trautman," It Saws,
 Planes, Points & Laps), Lockport, N. Y.
 Michels, J. & Co., Detroit, Mich.
 Plano Machine Works (Planing, Pointing, Lap-
 ping & Colling Machines), Plano, Ill.

Hoop Nailing Machines

Holmes, E. B. Machinery Co. ("Trautman"),
 Buffalo, N. Y.

Hop Packing Machines

Automatic Scale Co., Jersey City, N. J.
 Pneumatic Scale Co., 311 Atlantic av., Boston,
 Mass.

Horn Working Machinery

Cook, F. H. & Co., Leominster, Mass.

Horse Clipping Machines

(See also Clippers, Horse; also Sheep Shearing
 Machines)

Chicago Flexible Shaft Co. ("20th Century"),
 La Salle av & Ontario, Chicago, Ill.
COATES CLIPPER MFG. CO.
 ("Coates" Flexible Shaft, Electric, etc.),
 Worcester, Mass. (See adv. index, end of
 book)
 Gillette Clipping Machine Co., 114 W 32d, New
 York

Horse Collar Machinery

Foglesong, W., Dayton, O.
 Randall & Co., Cincinnati, O.

Horseshoe Machinery

Dora Foundry, Car Wheel & Mach. Co., Pulaski,
 Va.

Hose Machines (Rubber Mill)

Adamson, A., Akron, O.
AITON MACHINE CO., 126 Liberty,
 New York. (See adv. index, end of book)
 Birmingham Iron Foundry, Derby, Conn.
 New England Butt Co., Providence, R. I.

Hot Forge Nut Machines

National Machinery Co., Tiffin, O.

Hot Pressed Nut Machines

(See Nut Machines, Hot Pressed)

Hot Rolled Stock Straightening & Cutting Machinery (Automatic)

SHUSTER, F. B. CO., New Haven,
 Conn. (See adv. index, end of book)

Hot Sawing Machines

(See also Metal Sawing Machines)

Billings & Spencer Co., Hartford, Conn.
CLEVELAND PUNCH & SHEAR
 Works Co., 1306 E 40th, Cleveland, O. (See
 adv. index, end of book)
FAWCUS MACHINE CO. ("Special"),
 2820 Smallman, Pittsburg, Pa. (See adv. in-
 dex, end of book)
 Fischer Foundry & Machine Co., Pittsburg, Pa.
 Lewis Foundry & Machine Co., 1001 Bingham,
 Pittsburg, Pa.
 Mesta Machine Co., Pittsburg, Pa.
 Phila. Roll & Machine Co. (For Hot Metal), S
 22d & Washington av, Phila., Pa.
 Scaife Foundry & Machine Co., 28th & Small-
 man, Pittsburg, Pa.
 United Engineering & Foundry Co. (Sliding &
 Stationary Saw for Rolling Mills), Farmers'
 Bank bldg, Pittsburg, Pa.

Hub Boring Machines

Abbott & Co., Hudson, Mich.
DEFIANCE MACHINE WORKS, Defi-
 ance, O. (See adv. index, end of book)
 Kane & Roach, Syracuse, N. Y.
 Silver Mfg. Co. ("Dole & Duck Nest"), Salem,
 O. Smith, Philip Co., Sidney, O.

Hub Boxing Machines

Silver Mfg. Co. ("Dole & Silver"), Salem, O.

Hub Mortising Machines

DEFIANCE MACHINE WORKS, Defi-
 ance, O. (See adv. index, end of book)

Hub, Spoke & Rim Machinery

Abbott & Co. (Hub Borers), Hudson, Mich.
 Bentel & Margedant Co., Hamilton, O.
 Conrad, I. N. & C., Mt. Pleasant, Mich.
 Cordesman, Rehtin Co. (Boring), 25 Butler,
 Cincinnati, O.

DEFIANCE MACHINE WORKS, Defi-

ance, O. (See adv. index, end of book)
 Fay, J. A. & Egan Co., Cincinnati, O.
 Kane & Roach (Boring), Syracuse, N. Y.
 Moyer, H. A., Syracuse, N. Y.
 Ober Mfg. Co. (Spoke), Chagrin Falls, O.
 Silver Mfg. Co. (Tenon Machines), Salem,
 Ohio
 Smith, H. B. Machine Co., Smithville, N. J., &
 121 Liberty, New York
 Smith, Philip Co., Sidney, O.
 Stearns, E. C. & Co., 100 Oneida, Syracuse,
 N. Y.

Hydraulic Machinery

See Accumulators, Hydraulic.
 Compressors, Air.
 Cranes, Hydraulic.
 Dredging Machinery, Hydraulic.
 Gauges, Hydraulic.
 Hydraulic Rams.
 Jacks, Hydraulic.
 Lifts, Hydraulic.
 Presses, Hydraulic, various kinds.
 Pumps, Hydraulic.
 Punches, Hydraulic.
 Riveting Machines, Hydraulic.
 etc., etc., etc.

Hydrostatic Weighing Machines

SCHAEFFER & BUDENBERG MFG.
 Co. (for Iron & Heavy Castings, etc.), Fox-
 boro, Mass. (See adv. index & branch of-
 fices, end of book)

Ice Cream Machines

Allman Gas Engine & Machine Co. ("Cham-
 pion," also Ice Cream Machine & Ice Break-
 er Combined), 29 Sullivan, New York
 Reilly, Jas., Repair & Supply Co., 229 West,
 New York

Ice Cube Cutting Machines

Blakeslee, G. S. & Co. ("Blakeslee"), 325 Dear-
 horn, Chicago, Ill., & 260 B'way, New York
 Reinhold Mfg. Co. ("Jumbo"), Detroit, Mich.

Ice Elevating Machinery

(See Ice Handling Machinery)

DODGE MFG. CO., Mishawaka, Ind.
 (See adv. index & branch offices, end of book)
 Hiles, C. A. & Co., 14th & Western av, Chi-
 cago, Ill.
 Klotz Machine Co., Sandusky, O.

Ice Handling Machinery

Gifford-Wood Co., Hudson, N. Y., & Arlington,
 Mass.
 Haughton Elevator & Machine Co., Toledo, O.
 Hiles, C. A. & Co., 14th & Western av, Chi-
 cago, Ill.
 Interstate Engineering Co. Offices & Works,
 Bedford, O.
 Klotz Machine Co., Sandusky, O.
 Link Belt Co., W 39th cor Stewart av, Chicago,
 Ill., & 299 B'way, New York
 Mey Chain Belting Engineering Works, 34 Wash-
 ington, Buffalo, N. Y.
ROBINS CONVEYING BELT CO., 19
 Park Row, New York. (See adv. index,
 end of book)

Ice Machines (Portable)

Barber, A. H. Co., 229 S Water, Chicago, Ill.
 Murray Iron Works Co., Burlington, Ia.
 Tropical Ice Machine Co., 126 Liberty, N. Y.
 United Iron Works Co., Springfield, Mo.
 York Mfg. Co., Ltd., York, Pa.

Ice Recording Machines

Stevenson Co. (Ltd.), Chester, Pa.

Ice & Refrigerating Machines

Alamo Iron Works (Inc.), San Antonio, Tex.
 American Linde Refrigeration Co., 346 B'way,
 New York
 American Machine Co., Louisville, Ky.
ARCTIC ICE MACHINE CO., Canton,
 Atlanta Machine Works, Atlanta, Ga. Ohio
 Automatic Refrigerator Co., Hartford, Conn.
 Barber, A. H. & Co., 229 S Water, Chicago, Ill.
 Brown-Cochran Co. (Carbonic Anhydride Sys-
 tem), Lorain, O.
 Brunswick Refrigerating Co., New Brunswick,
 N. J.
 Buckeye Engine & Foundry Co., Joliet, Ill.
 Buffalo Engine Co., Buffalo, N. Y.
BUFFALO REFRIGERATING MA-
 chine Co., 126 Liberty, New York, Works,
 Harrison, N. J. (See adv. index, end of
 book)
 Buffalo Steam Pump Co., Buffalo, N. Y.
 Carbondale Machine Co. ("The Hendrick"),
 Carbondale, Pa.
 Castle Ice Machine Co., Indianapolis, Ind.
 Climax Ice Machine Supply & Pump Co., 136
 Liberty, New York City
 Columbus Iron Works Co., Columbus, Ga.
 Creamery Package Mfg. Co., 182 E Kenzie,
 Chicago, Ill.
 De La Vergne Machine Co., ft E 138th, New
 York
 Empire State Engineering Co. (up to 35 Tons),
 116th & E. R., New York
 Featherstone Foundry & Machine Co., 303 Rail-
 way Ex., Chicago, Ill.
 Frick Co., Waynesboro, Pa.
 Gillette Ice Machine Co., 346 B'way, N. Y. City
 Goldens' Fdry. & Machine Co., Columbus, Ga.
 Great Lakes Engineering Works, Detroit, Mich.
 Healy Ice Machine Co., 641 30th, Chicago, Ill.
 Hercules Ice Machine Co. (J. A. McDonald),
 Monadnock blk, Chicago, Ill.
 Holden Regealed Ice & Machine Co., 1336
 Beach, Phila., Pa.
 Huetteman & Cramer Co., Beaufait e Mack
 av, Detroit, Mich.
 Ice & Cold Machine Co., 912 N Main, St.
 Louis, Mo.
 Imperial Ice Machine Co., 11 B'way, New York
 Isbell-Porter Co., 46 Bridge, Newark, N. J.
 Kroeschel Bros. Ice Machiue Co., 31 Erie,
 Chicago, Ill.
 Larsen-Baker Ice Machiue Co. (2 to 50 tons),
 Omaha, Neb.
 Macdonald Engineering Co., Monadnock blk, Chi-
 cago, Ill.
MARINE ENGINE & MACHINE CO.,
 Main Office, 126 Liberty, New York. Works:
 Harrison, N. J. (See adv. index, end of
 book)
 Maynard, J. F. (for Brewers, Packers, Confec-
 tioners & Dairies), 122 Geyer av, St. Louis,
 Mo.



WATSON-STILLMAN HYDRAULICS.

We are prepared to build any kind of a Hydraulic
 Machine, or Tool you may need from the heaviest to
 the lightest.
 Our regular line embraces Punches, Benders and
 nearly 300 varieties of Hydraulic Jacks.

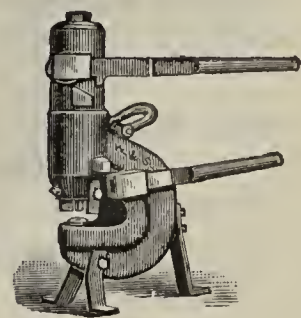
General Index showing full line sent on request.]

WATSON-STILLMAN CO.

OFFICES:

26 Cortlandt St., NEW YORK

453 The Rookery, CHICAGO



Meese & Gottfried Co. (Linde System), 167 Fremont, San Francisco, Cal.
 Murray Iron Works Co., Burlington, Ia.
 New Britain Machine Co., New Britain, Conn.
 New Process Refrigerating Machine Co. (for Families, Butchers, Restaurants, Vessels, etc.), Detroit, Mich.
 Newburgh Ice Machine & Engine Co., Newburgh, N. Y.
 Pennsylvania Engineering Co. (Engineers & Contractors), Perry bldg. Phila., Pa.
 Otto, Geo. F., 209 Buttonwood, Phila., Pa.
 Platt Iron Works Co., Dayton, O., & 100 B'way, New York
 Rebsamer & Almeroth, 1071 Elston av., Chicago, Ill.
 Remington Machine Co., Wilmington, Del.
 Riverside Iron Works Co., Kansas City, Kan.
 Roelker, H. B. (Small), 41 Maiden la., New York
 Ruemmeli-Dawley Mfg. Co., 3900 Chouteau av., St. Louis, Mo.
 Spangler Mfg. Co. (Small), York, Pa.
 Steele & Condict (Inc.), 70 Pearl, Jersey City, N. J.
 Sterling Iron Works, Springfield, Mo.
 Triumph Ice Machine Co., 610 Baymiller, Cincinnati, O.
 Tropical Ice Machine Co., 126 Liberty, New York
 United Iron Works Co. (1-4 to 50 Tons Per Day), Springfield, Mo.
 U. S. Automatic Ice Machine Co. (Automatic), Dayton, O.
 Van Zandt-Moore Iron Works, Fort Worth, Tex.
VILTER MFG. CO., 1046 Clinton, Milwaukee, Wis. (See adv. index, end of book)
 Vogt, Henry Machine Co., Louisville, Ky.
 Vulcan Iron Works, 505 Mission, San Francisco, Cal.
 Wolf, Fred. W. Co. ("Linde"), 141 Rees, Chicago, Ill.
 York Mfg. Co., York, Pa.
 Zero Refrigerating Machine Co., 206 B'way, New York

Incandescent Lamp Making Machinery

York Electric & Machine Co., York, Pa.

Ink Grinding Machines

Black & Clawson Co., Hamilton, O.

Insulating Machines

(See Wire Insulating Machinery)
 (See also Wire & Cable Covering Machinery)

Insulator Pin, Bracket & Cross Arm Machinery

Chattanooga Machinery Co., Chattanooga, Tenn.
DEFIANCE MACHINE WORKS, De- fiance, O. (See adv. index, end of book)

Ironing Machines

(See Laundry Machinery)

Irrigating Machinery

(See Pumps, Irrigating)

Jewelers' Machinery

Ruesch, Henry J., 28 Green, Newark, N. J.
 Standard Machinery Co., Providence, R. I.

Jewelers' & Opticians' Machines & Tools

Langelier Mfg. Co., 67 Clifford, Providence, R. I.

Joggling Machines for Shipyards

MORGAN ENGINEERING CO. (Elec- tric, with Hand Crane), Alliance, O. (See adv. index, end of book)

Jolly Machines for Stoneware, Etc.

Williams Foundry & Machine Co., Akron, O.

Keg Machinery

(See Barrel, Keg, Stave & Heading Machinery)

Keyhole Boring & Lock Mortising Machines

Corbin Cabinet Lock Co. (Mortising, for Locks & Keyhole Boring), New Britain, Conn.

Keyseat Broaching Machines

LAPOINTE MACHINE TOOL CO., Hud- son, Mass. (See adv. index, end of book)

Key-Seating Machines

Baker Bros. ("Colburn"), Toledo, O.
 Burr, John T. & Sons, 429 Kent av., Brooklyn, N. Y.
 Chattanooga Machinery Co. (The "Catlin"), Chattanooga, Tenn.
 Crompton & Knowles Loom Works, Worcester, Mass.
 Davis, W. P. Machine Co., Rochester, N. Y.
FREVERT MACHINERY CO., 18 Dey, New York. (See adv. index, end of book)
 Mercury Machine Co. ("Lake," Portable), 1328 Olive, Phila., Pa.
 Mitts & Merrill (The Giant), Saginaw, Mich.
 Morton Mfg. Co., Muskegon Heights, Mich.
 Niles-Bement-Pond Co., 111 B'way, New York
 Novelty Iron Works (G. E. Davis, Prop.), Dubuque, Ia.
 Ryerson, Jos. T. & Son (Portable Automatic), 18 Milwaukee av., Chicago, Ill.
TUOHY BROS. CO., 95 Liberty, New York. (See adv. index, end of book)

Key-Way Machines

Baker Bros. ("Colburn"), Toledo, O.
 Davis, W. P. Machine Co., Rochester, N. Y.
 Morton Mfg. Co., Muskegon Heights, Mich.
 Niles-Bement-Pond Co., 111 B'way, New York

Kindling Wood Machinery

American Sawmill Machinery Co., 114 Liberty, New York. Works: Hackettstown, N. J.
 Atkins, E. C. & Co. (Inc.), Home Offices & Factories, Indianapolis, Ind.
 Badger Gas & Gasoline Engine Co. (Portable, Gasoline, Cord Wood, Sawing Machine), Kansas City, Mo.
 Dedricks, P. K. Sons, Albany, N. Y.
 Fay, J. A. & Egan Co., Front & John, Cincinnati, O.
 Green Mfg. Co., 296 Oakland, Brooklyn, N. Y.
 Hildreth Bros., Harvard, Mass.
 Hill, W. E. & Co., Kalamazoo, Mich.
 Spangler Mfg. Co., York, Pa.
 Stauffer, Geo. E., East Stroudsburg, Pa.

Kneading & Mixing Machines

Ross, Chas. & Son Co. (For Putty, Dough & Rubber, etc.), 148 Clason av., Brooklyn, N. Y.
 Werner & Pfeleiderer ("Universal," for Food, Chemicals, etc.), Saginaw, Mich.

Knife Balancing Machinery

Bentel & Margedant Co., Hamilton, O.
DEFIANCE MACHINE WORKS, De- fiance, O. (See adv. index, end of book)
 Fay, J. A. & Egan Co., Front & John, Cincinnati, O.

Knife Polishing & Buffing Machines

Blakeslee, G. S. & Co., 325 Dearborn, Chicago, Ill., & 260 W. B'way, New York, N. Y.

Knitting Machinery

(See Textile Machinery; for page number consult Index of Contents)

Kraut Cutting Machines

Smith's, Jno. E. Sons Co., Buffalo, N. Y.

Label Varnishing Machines

Chambers Bros. Co., 52d below Lancaster av., Phila., Pa.

Labeling Machines

Beck, Chas. Paper Co. (Ltd.), 607 Chestnut, Phila., Pa.
 Bottlers' Machinery & Mfg. Co., 67 Wells, Chicago, Ill.
 Burt Machine Co. (Can, etc.), Baltimore, Md.
 Economic Mch. Co. ("Star" & "World"), Worcester, Mass.
 Girard Machine Works (Inc.), 2616 Girard av., Philadelphia, Pa.
 Kramer Bros. Foundry Co., Dayton, O.
 Leffier, Chas. & Co. ("Brooklyn" Bottle, Can & Package), 63 Clymer, Brooklyn, N. Y.
 Leu & Co., Long Island City, N. Y.
 Royal Machine Co., 61 N. J. R. R. av., New ark, N. J.
SPRAGUE CANNING MACHINERY Co. ("Knapp" Tin Can), 42 River, Chicago, Ill. (See adv. index, end of book)

Laboratory Machinery

Colton, Arthur, 184 Brush, Detroit, Mich.
 Day, J. H. Co., Cincinnati, O.

Lacquering Machines

Hughlett & Seely, Blaine, Wash.
 Ohl, Geo. A. & Co. (For Tin, Metal & Card-board, etc.), 157 Oraton, Newark, N. J.

Lag Screw Threading Machines

COOK, ASA S. CO., 80 Huyshope av, Hartford, Conn. (See adv. index, end of book)

Lag Screw Gimlet Pointing Machines

National Machinery Co., Tiffin, O.

Lamp Burner Shaft Machinery

Nilson, A. H. Machine Co. (Automatic), Bridgeport, Conn.

Lapping Machines

(See also Textile Machinery)

Blake & Johnson, Waterbury, Conn.
 Builders' Iron Foundry, Providence, R. I.
 Diamond Machine Co., Providence, R. I.
 Hayden, Roth, Evans Co. ("Atlas," for Fast Lapping), Cincinnati, O.
 LeBlond, R. K. Machine Tool Co., 4609 Eastern av., Cincinnati, O.
 Mitts & Merrill (for Band Saws), Saginaw, Mich.
 Niles-Bement-Pond Co., 111 B'way, New York
 Northampton Emery Wheel Co., Leeds, Mass.
 Rhode Island Braiding Machine Co., Providence, R. I.

Last Machinery

Kimball Bros. & Sprague, Brockton, Mass.

Lath Mill Machinery

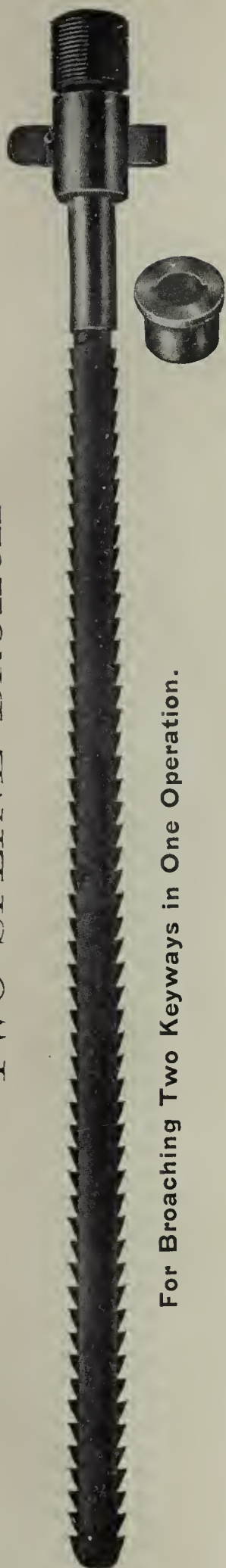
American Wood Working Machinery Co. Rochester, N. Y., West bldg., New York
 Bartlett, A. F. & Co., Saginaw, Mich.
 Butterworth & Lowe (Inc.) (Sheathing, Lath, etc.), Grand Rapids, Mich.
 Cook, B. A., Stevens Point, Wis.
 Diamond Iron Works, Minneapolis, Minn.
 Garland, M. Co., Bay City, Mich.
LANE MFG. CO., Montpelier, Vt. (See adv. index, end of book)
 Mitts & Merrill, Saginaw, Mich.
 Smith, Myers & Schnier, 621 W. Front, Cincinnati, O.
 Southern Engine & Boiler Works (Inc.), Jackson, Tenn.
 Stearns Mfg. Co., Erie, Pa.
 Union Iron Works, Bangor, Me.
 Wheland Machine Works, Chattanooga, Tenn.
 Wickes Bros., Saginaw, Mich.

Laundry Machinery

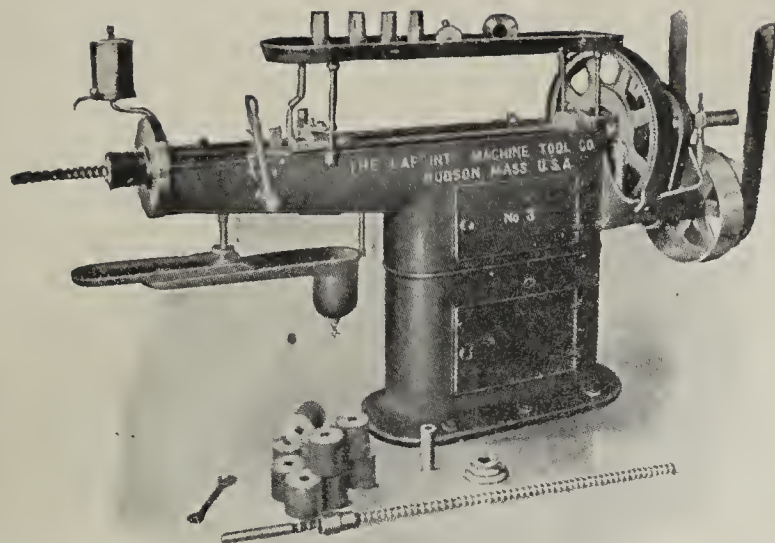
(See also Laundry Dryers, Tubs, etc.)

Adams Laundry Machinery Co. ("Sharps" Washers, etc.), 1935 6th av., Troy, N. Y.
 American Bell & Foundry Co. ("Gem" C. & C. Ironers, etc.), Northville, Mich.
AMERICAN LAUNDRY MACHINERY Co. (Mangles, Cylinder Washers, etc.), Norwood, Cincinnati, O., & 132 W 27th, New York
 Arlington Machine Works (Mangles, etc.), Arlington Heights, Mass.

TWO SPLINE BROACH



For Broaching Two Keyways in One Operation.



The Lapointe Broaching Machine

CUTS SQUARE HOLES AND KEYWAYS
RAPIDLY AND ACCURATELY.

This machine is particularly adapted for the Automobile and Machinery Manufacturers, also Wrench and Gun Makers and is suitable for all kind of internal cutting in metal work. Our machines are now in use throughout this country, also in Europe. The No. 2 Machine has a capacity to broach, as large as $1\frac{1}{4}$ square holes, 4 in. long, taken from a drilled hole or cut $\frac{1}{2}$ in. keyways in a hole 6 in. long, in one operation, consuming about two minutes.

The No. 3 Machine has capacity to broach, as large as 2 in. square holes, 8 in. long taken from a drilled hole; or cut $\frac{3}{4}$ in. keyways in holes 8 in. long in $2\frac{1}{2}$ minutes. The work requires no fastening or clamping to the machine and is not exposed to be mutilated.

Our business is building broaching machines and making broaching tools of all description. We are specialists in the above.

If you have any work in the line of broaching holes or cutting keyways, just let us tell you what we can do for you. Send blue prints, sketches or samples for estimates of cost and tools required and same will receive our prompt attention.

The Lapointe Machine Tool Co.

HUDSON, MASS.



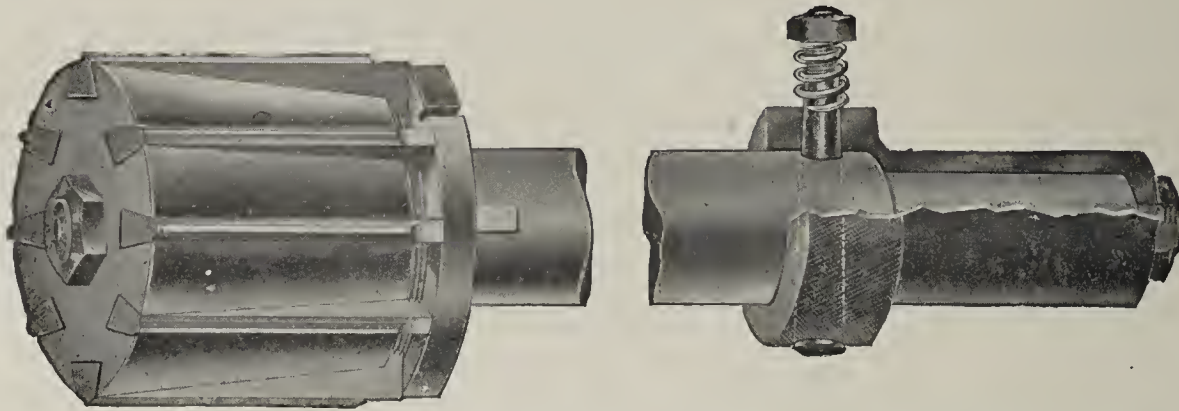
For Broaching Square Holes, etc., in Automobile Parts, Cranks, Hubs, Gears, Wrenches



SQUARE BROACH

LAPOINTE'S PATENTED SYSTEM
Simplest and most rapid method for cutting internal keyways, straight, taper or dovetail, and oil channels, also for broaching square or hexagon holes, from cored or drill holes.

Adjustable Reamers and Taps



LAPOINTE ADJUSTABLE REAMER

LAPOINTE TOOL SUPPORT

(BOTH PATENTED)

THE LAPOINTE REAMER SUPPORT

The *Lapointe Arbor Support* has many advantages over former methods of holding Reamers in Turret Machines when accurate work is required. The support or bushing is held firm in the turret at the same time leaving the Arbor "floated."

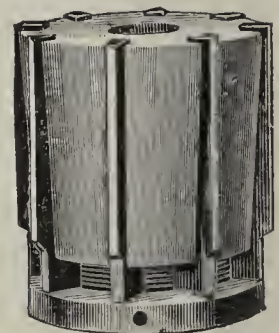
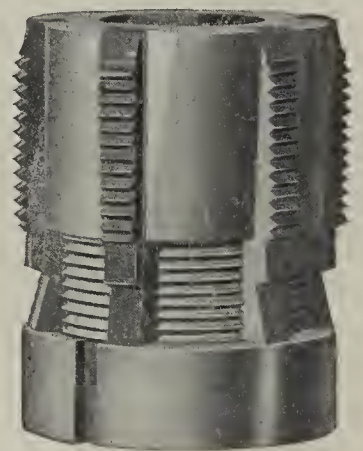
ADJUSTABLE HAND REAMERS



SOLID SHANK ADJUSTABLE REAMERS



PLAIN ARBORS FOR SHELL REAMERS



SEND FOR CIRCULARS AND PRICE LIST.

THE LAPOINTE MACHINE TOOL CO., HUDSON, MASS.

Ashler Mangle Co., Willimantic, Conn.
 Atlas Laundry Machinery Co., Cincinnati, O.
 Barnes & Erp Co. (C. & C. Ironers, "Eclipse" Seam Dampeners, Reverse Body Ironers, etc.), 3846 Lancaster av., Phila., Pa.
 Bess Laundry Machinery Co., Hamilton, O.
 Bishop, Geo. H. (C. & C. Strachers and Specialties), 59 W. Washington, Chicago, Ill.
 Boland & Gschwind Co., 1363 St. Thomas, New Orleans La.
 Chicago Addition Mangle Co., 74 W. Monroe, Chicago, Ill.
 Chicago Dryer Co. (Clothes Dryers, Steam, Hot Water & Gas), 346 Wabash av., Chicago, Ill.
 Cleveland Laundry Machinery Co., 124 Track, Cleveland, O.
 Conkling Co., 96th & Erie, Chicago, Ill.
 Craw, J. W. Laundry Machinery Co., South Norwalk, Conn., & 242 4th av., New York
 Dawson, A. L. & Co., 29 W. Wash'n, Chicago, Ill.
 Economic Mfg. Co. ("Economic" Edgers, Starchers, etc.), East Orange, N. J.
 Empire Laundry Machinery Co., Boston, Mass.
 Grever, Kerhoff & Co. (Body Ironers), 59 Central av., Cleveland, O.
 Hansen, Jens (Shirt & Cuff & Collar Ironers, "Ideal" High Board Combined), 11 S Canal, Chicago, Ill.
 Heim Machinery Co., Danbury, Conn.
 Hendy, Joshua, Machine Works, 38 Fremont San Francisco, Cal.
 Henrici Laundry Machinery Co., Chelsea, Mass.
 Hoyt Mfg. Co. (C. & C. & S. Ironers), 116 1st av., N. Minneapolis, Minn.
 Huebsch Spray Dampener Co., Milwaukee, Wis.
 Knudtson, T. L. Mach'y Mfg. Co. (Extractors, "Illini" Starchers, etc.), Chicago, Ill.
 Lovewell-Henrici Co. (The "Henrici" Extractors, Dampening Presses, etc.), Chelsea, Mass.
 Mateer, F. W. & Co. (Extractors, C. & C. Ironers, Cylinder Washers, etc.), Chicago, Ill.
 Minneapolis Brass & Iron Mfg. Co., Minneapolis Minn.
 Modern Laundry Machinery Co., Rochester, N. Y.
 National Laundry Machinery Co., Dayton, O.
 Nelson & Kreuter Co. ("Champion" C. & C. Ironers, Cylinder Washers, etc.), 49 S Clinton, Chicago, Ill.
 New York Laundry Machinery Co. ("Annihilator" Mangles), 74 W. Houston, N. Y.
 Oakley & Keating, 673 Manhattan av., Brooklyn, N. Y.
 Phillips, W. & Co. ("Jewell" C. & C. Ironers, etc.), Northville, Mich.
 Poland Laundry Machinery Co., 41 Kemble, Boston, Mass.
 Porter & Erwin, Cedar Rapids, Ia.
 Prankard, O. J. & Sons, Troy, N. Y.
 Racine Mangle Co. (Cold Rolled Mangles), Racine, Wis.
 Reed Mfg. Co. (Collar Shapers), Erie, Pa.
 Sanitary Laundry Machinery Co., Tell City, Ind.
 Southern Laundry Machinery Co., Atlanta, Ga.
 Stebbins Mfg. Co., Denver, Colo.
 Steel Roll Machine Co., 8 S Canal, Chicago, Ill.
 Stone, C. F. Co., 46 S Clinton, Chicago, Ill.
 Tolhurst, Wm. H. & Son, Troy, N. Y.
 Troy Laundry Machinery Co. (Ltd.), Troy, N. Y.
 U. S. Laundry Machinery & Supply Co., B'way & 2d, Cincinnati, O.
 Watkins Laundry Machinery Co. (C. & C. Ironers, "Hercules" Mangles, etc.), Alabama & Spring Grove av., Cincinnati, O.
 Western Laundry Machinery Co., San Francisco, Cal.
 Wilson Laundry Machinery Co. ("Hurry" Dryers, "F" C. & C. Ironers, etc.), Columbia, Pa.
 Windsor Locks Machine Co., Windsor Locks, Conn.

Lead Pipe & Trap Machinery

Robertson, Jno. & Co. (also for Sheet Lead, etc.), 129 Water, Brooklyn, N. Y.

Leather Brushing Machines

Baker, G. W. & Co. (For Harness, Shoe, Russia & Sheep Leather), Wilmington, Del.

Leather Calculating Machines

Baker, G. W. & Co., Wilmington, Del.

Leather Cutting Machines

Ohl, Geo. A. & Co. (Also for Fibre), 157 Oratun, Newark, N. J.

Leather Finishing Machines

Martin, Wm. F., Salem, Mass.

Leather Fleshing & Slating Machines

Baker, G. W. & Co. ("New National"), Wilmington, Del.

Leather Glazing Machines

Baker, G. W. & Co., Wilmington, Del.

Leather Machinery (Artificial)

CURRIER, CYRUS & SONS, Newark, N. J. (See adv. index, end of book)

Leather Measuring Machines

Baker, G. W. & Co. ("Sawyer's"), Wilmington, Del.

Leather Punching Machines

Ohl, Geo. A. & Co. (Also for Fibre), 157 Oratun, Newark, N. J.

Leather Rolling & Stoning Machines

Baker, G. W. & Co., Wilmington, Del.

Leather Setting & Stoning-Out Machines

Baker, G. W. & Co. (Reversible Drum), Wilmington, Del.

Leather Shaving Machines

Baker, G. W. & Co., Wilmington, Del.

Leather Splitting Machines

American Tool & Machine Co. (Belt Knife), 109 Beach, Boston, Mass.
 Baker, G. W. & Co. ("Western Union"), Wilmington, Del.
 Simpson, Edwin B. & Son, 31 Spruce, New York

Leather Staking Machines

Baker, G. W. & Co. ("Baker" & "Wilmington" Roller), Wilmington, Del.

Leather Stamping Machines

Baker, G. W. & Co. (For Hides, Skins & Leather), Wilmington, Del.

Leather Whitening Machines

Baker, G. W. & Co. (For Splits & Harness Leather, etc.), Wilmington, Del.

Leather Working Machinery

(See Hide & Leather Working Machinery.)

Leveling Machines for Sheets

Poole, J. Morton Co., Wilmington, Del.

Lime Hydrating Machinery

Kritzer Co. ("Kritzer" Continuous), 17th & Western ave., Chicago, Ill.
 National Brick Machinery Co., 138 Wash'n, Chicago, Ill.

Lime Slacking & Mixing Machines

Teal, Chas. A., 1361 Ridge av., Phila., Pa.

Linoleum & Floor Cloth Machinery

Dienelt & Eisenhardt (Printing), 1308 N. Howard, Phila., Pa.
 Moore & White Co. (Printing), 15th & Lehigh av., Phila., Pa.
 SCHULE, F. C. CO., 27 Thames, New York. (See adv. index, end of book.)

Linseed Oil Machinery

(See also Cotton Seed Oil Machinery.)
 ELMES, CHAS. F. ENGINEERING Works, cor. Fulton & N. Sangamon, Chicago, Ill. (See adv. index, end of book.)

Lock Corner Box Machinery

Bentel & Margedant Co. (Single & Double End), Hamilton, O.
 Chase Turbine Mfg. Co. (Automatic Box Presses), Orange, Mass.
 Ewart, Samuel F. (Automatic Cross-Cut Saws), 3015 Center av., Pittsburg, Pa.
 Fay, J. A. & Egan Co., Front & John, Cincinnati, O.
 Morgan Machine Co., Rochester, N. Y.
 Nicholis Mfg. Co., Ottumwa, Ia.

Log Cutting-Off Machines

LANE MFG. CO., Montpelier, Vt. (See adv. index, end of book)

Log Hauling Machines

(See Log Hauls)

Macaroni Machinery

Cavagnaro, Jno. J., 215 Centre, New York
 City Machine Co., 430 Prospect, N. W., Cleveland, O.
 Gunther Foundry Mach. & Supply Co., San Antonio, Tex.
 Werner & Pfeiderer, Saginaw, Mich.

Manifold Shipping Machines

Egry Autographic Register Co., Dayton, O.

Marble Mosaic Cutting Machines

Roussel, Chas. J., 524 W. 50th, New York

Marble Moulding & Countersinking Machines

Olsen, Tinius & Co., 500 N 12th, Phila., Pa.
 Riehle Bros. Testing Machine Co., 1424 N 9th, Phila., Pa.

Marble Oval Hole Cutting Machines

Holub & Dusha Co., 1801 1st av., New York

Marble Polishing Machines

(See Stone Polishing Machines)

Marble Working Machinery

(See Stone Working Machinery, etc.)

Marking Machines

Slate, Dwight, Machine Co., Hartford, Conn.

Mashing Machines

VILTER MFG. CO., 1046 Clinton, Milwaukee, -Wis. (See adv. index, end of book)

Match Box Machinery

Dietz Machine Works, 126 Fontain, Phila., Pa.
 Reinhold Machine Co., Detroit, Mich.

Match Machinery

Diamond Match Co., 56 Michigan av., Chicago, Ill., & Barberton, O.
 Dietz Machine Works, 126 Fontain, Phila., Pa.
 Donnelly, Jos. C. (Half or Full Automatic), 427 N 13th, Phila., Pa.
 Herrick & Cowell, New Haven, Conn.
 Reinhold Machine Co., Detroit, Mich.

Matting Weaving Machines

Crompton & Knowles Loom Works (for Japanese Matting), Worcester, Mass.

Meat Can Stuffing Machines

American Can Co. (Rotary), 135 Adams, Chicago, Ill.

Metal Beading Machines

(See Crimping & Beading Machines)

Metal Beating Machines

American Metal Leaf Machine Co., 63 Wall, New York

Metal Boring Machines

(See also Mills, Boring & Turning; also Metal Boring Machines).

American Tool Works Co., Cincinnati, O.

Baker Bros., Toledo, O.

Barrett Machine Tool Co. (The Barrett Cylinder), Meadville, Pa.

Baush Machine Tool Co., Springfield, Mass.

Beaman & Smith Co., Providence, R. I.

Bickford Drill & Tool Co., c Front & Plke, Cincinnati, O.

Birdsboro Steel Foundry & Machine Co. ("Wagner," Cold Sawing), Birdsboro, Pa.

Fitchburg Machine Works, Fitchburg, Mass.

Fox Machine Co., Grand Rapids, Mich.

Gardam, Wm. & Son (Inc.), 45 Rose, N. Y. City.

Garvin Machine Co., 137 Varick, New York

Harrington, B. Son & Co. (Inc.), 17th & Callowhill, Phila., Pa.

HEARTLEY MACHINE, VARIETY

Iron & Tool Works, Toledo, O. (See adv. index, end of book)

Henley, M. C., Richmond, Ind.

Lucas Machine Tool Co., Cleveland, O.

MANNING, MAXWELL & MOORE, SO

87 & 89 Liberty, New York. (See adv. index & branch offices, end of book)

New Haven Mfg. Co., New Haven, Conn.

Newton Machine Tool Works (Inc.), 2347 Vine, Philadelphia, Pa.

Niles-Bement-Pond Co., 111 B'way, New York.

Pratt & Whitney Co., Hartford, Conn.

Prentice Bros. Co., Worcester, Mass.

Putnam Machine Co., Fitchburg, Mass.

Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Philadelphia, Pa.

Warner & Swasey Co., Cleveland, O.

Metal Boring Machines (Horizontal)

(See Boring & Drilling Machines.)

Metal Boring Machines (Vertical)

American Tool Works Co., 6th & Eggleston av., Cincinnati, O.

Betts Machine Co., Wilmington, Del.

Bickford, H., Lakeport, N. H.

Bullard Machine Tool Co., Bridgeport, Conn.

Cornell, J. B. & J. M. Co., 26th & 11th av., New York

Niles-Bement-Pond Co., 111 B'way, New York

Prentice Bros. Co., Worcester, Mass.

Metal Cutting-Off Machines

(See also Cold Saw Cutting-Off Machines; also Hot Sawing Machines)

Brown & Sharpe Mfg. Co., Providence, R. I.

CLEVELAND PUNCH & SHEAR

Works Co., 1306 E. 40th, Cleveland, O. (See adv. index, end of book)

Davenport-McCullough Mfg. Co., Blissfield, Mich.

Davis, W. P. Machine Co. (Cold), Rochester, N. Y.

Niles-Bement-Pond Co., 111 B'way, New York

Pels, Henry & Co., 66 Broad, New York

Slate, Dwight, Machine Co., Hartford, Conn.

Metal Edge Box Machines

National Metal Edge Box Co. (Automatic), 8th & Willow, Phila., Pa.

Metal Jig Sawing Machines

Thompson, H. G. & Son Co. ("Eureka"), New Haven, Conn.

Metal Power Sawing Machines

Thompson, H. G. Son Co. ("Eureka" Hack Saw Pattern), New Haven, Conn.

Metal Sawing Machines

(See Cold-Saw Cutting-off Machines; also Hot Sawing Machines)

Metal Sawing Machines (Hand Power)

Kelly, Maus & Co. ("Morgan"), Blue Island av., & Paulina, Chicago, Ill.

Metal Wheel Machinery

HEARTLEY MACHINE, VARIETY

Iron & Tool Works (Metal Wheel Tools of all descriptions), Toledo, O. (See adv. index, end of book)

Milk Condensing Machinery

Rogers, C. T. (and Factory Construction), 1440 Grand River av, Detroit, Mich.

Milk Pasteurizing Machinery

Burke Machinery Co., Cleveland, O.

Milling Machines

(See also Milling Machines, Bench or Hand)

Adams Co. ("The Farewell Horizontal"), Du-

buque, Ia.

Aurora Tool Works (Plain & Universal), Aurora Ind.

Beaman & Smith Co. (Horizontal with one or more spindles), Providence, R. I.

Becker-Brainard Milling Machine Co. (Horizontal, Plain, Vertical, Universal, Large

Hand & Planer Type), Hyde Park, Mass.

Brown & Sharpe Mfg. Co. (Universal, Plain, Hand & Vertical Spindle), Providence, R. I.

Burr, Jno. T. & Sons (Slab Miller), 429 Kent av., Brooklyn, N. Y.

Cincinnati Milling Machine Co. (Plain & Universal), Cincinnati, O.

Cleveland Machine Screw Co (Worm, etc.), Cleveland, O.

DO YOU BUY TOOLS AND SUPPLIES?

Then get a copy of the **MACHINE TOOL POCKET LIST**.

It is a comprehensive, classified index of tools and supplies and of the people who manufacture and sell them. It will save you many dollars' worth of time when you are looking for "who makes it." It is up to date. It is issued quarterly and every new machine or device is listed as soon as the maker lets his new product be known. The insertion of a maker's name is not contingent upon advertising.

Why waste hours hunting or writing around for catalogs or be pestered by hordes of salesmen who have what you don't want when all the products of *all the concerns in the United States that manufacture machine tools are accurately and fully classified in this book?* For instance, the postage you would waste in writing to all the lathe manufacturers when you might want only a particular kind or size of lathe would more than pay for the **MACHINE TOOL POCKET LIST** for a year and the list would enable you to find just the firm you wanted at once. Besides this, the list contains an alphabetical classification of manufacturers of machine tools and supplies, which will be a convenient mailing list some day when you want to circularize these people.

HEAR WHAT PEOPLE SAY ABOUT IT.

"Almost indispensable"—J. STEVENS ARMS & TOOL CO.

"Will save us lots of time"—PRATT & WHITNEY CO.

"A great convenience"—JOS. REID GAS ENGINE CO.

"Of inesfimable service"—ADAMITE ABRASION CO.

"A very handy book"—MANNING, MAXWELL & MOORE.

"Beyond anything that has ever been published"—NILES-BEMENT-POND CO.

"A convenient book"—NORTHERN ENGINEERING WORKS.

"A very handy index"—CANTON DROP FORGING & MANUFACTURING CO.

"A very handy reference"—WILLIAMSON MANUFACTURING CO.

"Very handy and complete"—SCHWERDTLE STAMP CO.

"Wish to compliment you on the new method of reference"—WATSON-STILLMAN CO.

"We like the idea"—SILVER MANUFACTURING CO.

THE MACHINE TOOL POCKET LIST costs \$1.00 per year. Any brand of legal tender is accepted.

GEO. H. GIBSON CO.

Seventh Floor, Tribune Building

NEW YORK CITY

Clough, R. M. (Vertical), Tolland, Conn.
COOK, ASA S. CO. ("COLT" & "Cook"), 80 Hayslope av., Hartford, Conn.
 Fay & Scott, Dexter, Me.
 Fosdick Machine Tool Co. (Horizontal), Blue Rock & Apple, Cincinnati, O.

FREVERT MACHINERY CO. (Mfrs.)
 Agents & Dealers), 18 Dey, New York. (See adv. index, end of book)

Garvin Machine Co. (Universal, Plain, Vertical, Hand, Duplex, Double Face & Traverse Heads), 137 Varick, New York

Griswold, Geo. M., 35 Union, New Haven, Conn.

Hendey Machine Co. (Horizontal, Plain & Universal, Etc.), Torrington, Conn.

Hess Machine Work ("Hess" Slab), 2512 Cal-lowhill, Phila., Pa.

Hibbard, Wm. H. Mfg. Co. (Vertical), 79 Washington, Brooklyn, N. Y.

Hilles & Jones Co., Wilmington, Del.

Horton, Jas. A., Greenfield, Mass.

Ingersoll Milling Machine Co. (Heavy, Horizontal or Vertical Spindle), Rockford, Ill.

Kearney & Trecker, Milwaukee, Wis.

Kemp Smith Mfg. Co. (Plain, Universal & Lincoln Pattern), Linus & Woodward, Milwaukee, Wis.

KINSEY, E. A. CO., 331 W 4th, Cincinnati, O. (See adv. index, end of book)

Le Blond, R. K. Machine Tool Co. (Plain & Universal, 4609 Easton av., Cincinnati, O.

McCabe, J. J. (Plain & Universal), 14 Dey, New York

Mitts & Merrill (Keyseat), Saginaw, Mich.

Newton Machine Tool Works (Horizontal, Vertical, Universal & Slab), 2347 Vine, Phila., Pa.

Niles-Bement-Pond Co. (Horizontal, Plain, Vertical & Universal), 111 B'way, New York

Oesterlein Machine Co. (Plain & Universal), 2850 Spring Grove av., Cincinnati, O.

Pratt & Whitney Co. (Horizontal & Vertical), Hartford, Conn.

Pntnam Machine Co., Fitchburg, Mass.

Quincy-Manchester-Sargent Co., Old Colony bldg, Chicago, Ill., & 114 Liberty, New York

Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Philadelphia, Pa.

SHUSTER, F. B. CO. (Double End & Double Head for Butts & Rounding Both Ends of Wire), New Haven, Conn. (See adv. index, end of book)

Slate, Dwight, Machine Co. (Plain), Hartford, Conn.

Stark Tool Co., Waltham, Mass.

STRONG, CARLISLE & HAMMOND Co., 61 Frankfort, Cleveland, O. (See adv. index, end of book)

Sutton, C. E. Co. (Plain), Toledo, O.

Thurston Mfg. Co. (Jewelers), Providence, R. I.

Tindel-Morris Co. (Crankshaft), Eddystone, Pa. & Ellwood City, Pa.

TUOHY BROS. CO., 95 Liberty, New York. (See adv. index, end of book)

Underwood, H. B. & Co. (Portable), 1025 Hamilton, Phila., Pa.

Waltham Watch Tool Co. (Van Norman Duplex Universal & Bench), Springfield, Mass.

Warner & Swasey Co. (Valve), Cleveland, O.

Wickes Bros. (Heavy), Saginaw, Mich.

Milling, Drilling & Tapping Machines (Radiator Loop)

Baker Bros., Toledo, O.
 Bickford Drill & Tool Co., Cincinnati, O.
 Needham, A. W., 110 E. 43d, New York.
 Niles-Bement-Pond Co., 111 B'way, New York

Milling Machines (Bench)

American Watch Tool Co., Waltham, Mass.
 Burke Machinery Co. (also with Power Feed), Cleveland, O.
 Chicago Machine Tool Co., Chicago, Ill.
 Hardinge Bros. ("Cataract"), 1034 Lincoln av., Chicago, Ill.
 Hartford Machine Screw Co., Hartford, Conn.
 Pratt & Whitney Co., Hartford, Conn.
 Rivett Lathe Mfg. Co., Brighton, Boston, Mass.
 Sloan & Chase Mfg. Co., Newark, N. J.
 Stark Tool Co., Waltham, Mass.
 Waltham Watch Tool Co., Springfield, Mass.

Milling Machines (Double Head)

Beaman & Smith Co., Providence, R. I.
 Espen-Lucas Machine Works, Phila., Pa.
 Fox Machine Co., Grand Rapids, Mich.

Garvin Machine Co., Spring & Varick, New York
 Newton Machine Tool Works, Phila., Pa.
OWEN MACHINE TOOL CO., Springfield, O. (See adv. index, end of book)
 Pratt & Whitney Co., Hartford, Conn.

Milling Machines (Hand)

Becker-Brainard Milling Machine Co., Hyde Park, Mass.
 Brown & Sharpe Mfg. Co., Providence, R. I.
 Chicago Machine Tool Co., Chicago, Ill.
 Fox Machine Co., Grand Rapids, Mich.
 Garvin Machine Co., Spring & Varick, New York
 Morton Mfg. Co., Muskegon Heights, Mich.
 Pratt & Whitney Co., Hartford, Conn.
 Whitney Mfg. Co. (Hand & Weight, Feed & Friction Tapping Device), Hartford, Conn.

Milling Machines (Lincoln)

Becker-Brainard Milling Machine Co., Hyde Park, Mass.
 Carter & Hakes Machine Co., Winsted, Conn.
 Chicago Machine Tool Co., Chicago, Ill.
COOK, ASA S. ("Colt" Pattern), 80 Huyslope, Hartford, Conn. (See adv. index, end of book)
 Garvin Machine Co., Spring & Varick, New York
 Hendley Machine Co. (and Double Head Lincoln), Torrington, Conn.
 Kemp Smith Mfg. Co., Milwaukee, Wis.

Milling Machines (Plain Column Type)

Anrora Tool Works (Horizontal Spindle), Providence, R. I.
 Beaman & Smith Co. (Horizontal Spindle), Providence, R. I.
 Becker-Brainard Milling Machine Co. (Horizontal Spindle), Hyde Park, Mass.
 Brown & Sharpe Mfg. Co. (Horizontal Spindle), Providence, R. I.
 Cincinnati Milling Machine Co. (Horizontal Spindle), Cincinnati, O.
 Dwight Slate Machine Co. (Horizontal Spindle), Hartford, Conn.
 Fox Machine Co. (Horizontal Spindle), Grand Rapids, Mich.
 Garvin Machine Co. (Horizontal Spindle), Spring & Varick, New York
 Kearney & Trecker (Horizontal Spindle), Milwaukee, Wis.
 Kemp Smith Mfg. Co. (Horizontal Spindle), Milwaukee, Wis.
 Le Blond, R. K. Machine Tool Co. (Horizontal Spindle), Cincinnati, O.
 Oesterlein Machine Co. (Horizontal Spindle), Cincinnati, O.
OWEN MACHINE TOOL CO. (Horizontal Spindle), Springfield, O. (See adv. index, end of book)
 Sellers, Wm. & Co. (Horizontal Spindle), 1600 Hamilton, Phila., Pa.
 Sutton, C. E. Co. (Horizontal Spindle), Toledo, Ohio

Milling Machines (Planer Type)

Beaman & Smith Co. (Vertical & Horizontal Spindles), Providence, R. I.
 Becker-Brainard Milling Machine Co. (Horizontal & Vertical Spindle), Hyde Park, Mass.
BLISS, E. W. CO. (Vertical Spindle), 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)
 Burr, John T. & Sons (Horizontal & Vertical Spindles), Brooklyn, N. Y.
 Espen-Lucas Machine Works (Horizontal Spindle), Phila., Pa.
 Ingersoll Milling Machine Co. (Vertical & Horizontal Spindles), Rockford, Ill.
 Newton Machine Tool Works (Vertical & Horizontal Spindles), Phila., Pa.
 Niles-Bement-Pond Co. (Vertical & Horizontal Spindles), 111 B'way, New York
 Pratt & Whitney Co. (Horizontal & Vertical Spindles), Hartford, Conn.
 Sellers, Wm. & Co. (Vertical & Horizontal Spindles), 1600 Hamilton, Phila., Pa.

Milling Machines (Universal)

Aurora Tool Works, Aurora, Ind.
 Becker-Brainard Milling Machine Co., Hyde Park, Mass.
 Brown & Sharpe Mfg. Co., Providence, R. I.
 Cincinnati Milling Machine Co., Cincinnati, O.
 Garvin Machine Co., Spring & Varic, New York
 Hendey Machine Co., Torrington, Conn.
 Kearney & Trecker, Milwaukee, Wis.
 Kemp Smith Mfg. Co., Milwaukee, Wis.

Le Blond, R. K. Machine Tool Co., Cincinnati, Ohio
 Newton Machine Tool Works, Phila., Pa.
 Oesterlein Machine Co., Cincinnati, O.
OWEN MACHINE TOOL CO., Springfield, O. (See adv. index, end of book)
 Waltham Watch Tool Co., Springfield, Mass.

Milling Machines (Valve)

American Tool & Machine Co., 109 Beach, Boston, Mass.
 Warner & Swasey Co., Cleveland, O.

Milling Machines (Vertical Spindle, Column Type)

Beaman & Smith Co. (Three Spindle), Providence, R. I.
 Becker-Brainard Milling Machine Co., Hyde Park, Mass.
BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)
 Brown & Sharpe Mfg. Co., Providence, R. I.
 Clough, R. M., Tolland, Conn.
 Garvin Machine Co., Spring & Varick, New York
 Hibbard, Wm. H. Mfg. Co., 79 Washington, Brooklyn, N. Y.
 Ingersoll Milling Machine Co., Rockford, Ill.
 Johnson, Israel H., Jr. Co., Phila., Pa.
 Kearney & Trecker, Milwaukee, Wis.
 Newton Machine Tool Works, Phila., Pa.
 Niles-Bement-Pond Co., 111 B'way, New York
 Pratt & Whitney Co., Hartford, Conn.
 Rivett Lathe Mfg. Co., Brighton, Boston, Mass.
 Sellers, Wm. & Co., 1600 Hamilton, Phila., Pa.

Mine Timber Framing Machines

Denver Engineering Works Co., Denver, Colo.

Mine Ventilating Machinery

(See Fans, Ventilating Mine)

Mining Machinery

(See also Coal Mining Machinery)

ABENDROTH & ROOT MFG. CO., Newburgh, N. Y. (See adv. on following page; branch offices, end of book)
 Albany Iron Works, Albany, Ore.
 Allentown Rolling Mills, Allentown, Pa.
ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)
 American Concentrator Co., Joplin, Mo.
 American Machine & Mfg. Co., Cleveland, O.
 Arizona & Sonora Mfg. Co. (Sectional), Nogales, Ariz.
 Ashland Iron Works, Ashland, Oregon
 Atlanta Machine Works (Gold), 1 King, Atlanta, Ga.
Aurora Foundry & Machine Works (Complete Line), Aurora, Mo.
 Austin Mfg. Co. (Crushers'), Manhattan bldg, Chicago, Ill.; Works, Harvey, Ill.
 Bacon, Earle C., Havemeyer bldg, New York
 Barker, Samuel G. & Son, Scranton, Pa.
 Birdshoro Steel Foundry & Machine Co., Birdshoro, Pa.
 Blue Mountain Iron Works, Baker City, Oregon
 Rowes, F. K. & Co., Fisher bldg, Chicago
BRADLEY PULVERIZER CO. ("Griffin Mill"), 92 State, Boston, Mass.
 Browning Engineering Co., Cleveland, O.
 Carterville Foundry & Machine Works, Carterville, Mo.
 Chalmers & Williams, Railway Exchange bldg, Chicago, Ill.
CHICAGO PNEUMATIC TOOL CO., Fischer bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
 Colorado Iron Works Co., 33d & Wynkoop, Denver, Colo.
 Columbia Engineering Works, Portland, Oreg.
 Crescent Iron Works, Springfield, Mo.
 Currier, Cyrus & Sons, Newark, N. J.
 Danville Foundry & Machine Co., Danville, Ill.
 Davls, F. M. Iron Works Co., 8th & Larimer, Denver, Colo.
 Denver Engineering Works Co. (Electric, etc.), Blake c 30th, Denver, Col.
 Du Bois Iron Works, Du Bois, Pa.
 Erie City Iron Works, Erie, Pa.
 Escanaba Iron Works, Escanaba, Mich.
FAIRBANKS, MORSE & CO., Franklin & Monroe, Chicago, Ill. (See adv. index & branch offices, end of book)
 Farrel Foundry & Machine Co., Ansonia, Conn.
FAWCUS MACHINE CO., 2820 Smallman, Pittsburg, Pa. (See adv. index, end of book)

Freeman, J. W. Foundry & Machine Works, Joplin, Mo.
 Fritsch, Arthur Foundry & Machine Co. (Jig, Classifiers, Tables, Rolls, Crushers, Slag Pots, etc.), St. Louis, Mo.
 Fulton Engine Works, Los Angeles, Cal.
 Galena Iron Works Co., Galena, Ill.
 Globe Iron Works (Inc.), Stockton, Cal.
 Gold Pan Engineering & Mine Supply Co. Breckenridge, Colo.
 Golden State & Miners Iron Works, San Francisco, Cal.
 Goodman Mfg. Co. (Electric), 48th pl & Halsted, Chicago, Ill.
 Great Lakes Engineering Works, Detroit, Mich.
 Hamilton, Wm. Mfg. Co., Peterboro, Ont., Can.
 Hammond Mfg. Co., Portland, Ore.
 Hardy, J. B., Tacoma, Wash.
 Harron, Rickard & McCone (Inc.), San Francisco, Cal.
 Heintz, A. R. & Co., Portland, Ore.
 Hendrie & Bolthoff Mfg. & Supply Co., Denver, Col.
 Heudy, Joshua Machine Works, San Francisco, Cal.
 Henshaw-Buckley & Co., San Francisco, Cal.
 Herzler & Henninger, Belleville, Ill.
INGERSOLL-RAND CO., 11 B'way, New York. (See adv. index & branch offices, end of book)
 Interstate Engineering Co., Bedford, O.
 Jackson, Byron Machine Works, 411 Market, San Francisco, Cal.
 Jackson & Church Co. (Coal, etc.), Saginaw, Mich.
JEFFREY MFG. CO. (Coal, etc.), Columbus, O. (See adv. index & branch offices, end of book)
 Johnstown Foundry, Machine & Car Co., Johnstown, Pa.
KINSEY, E. A. & CO., 331 W 4th, Cincinnati O. (See adv. index, end of book)
 Krogh Mfg. Co., San Francisco, Cal.
 Krom Machine Works, 170 B'way, New York. Works: Jersey City, N. J.
 Lake Shore Engine Works (Coal, etc.), Marquette, Mich.
 Lake Side Iron Works Co. (Coal, etc.), Marquette, Mich.
 Leyner, J. Geo. Engineering Works Co., Littleton, Colo.
LIDGERWOOD MFG. CO., 96 Liberty, New York. (See adv. index, end of book)
 Llewellyn Iron Works, Los Angeles, Cal.
 Marine Iron Co., Bay City, Mich.
 Marinette Iron Works Mfg. Co., Marinette, Wis.
 Marshutz & Cantrell, Main & Howard, San Francisco, Cal.
 Mecklenburg Iron Works (Gold, etc.), Charlotte, N. C.
 Merrill Machinery Co. (Stamp Mills, etc.), 1123 B'way
 Merralls Mill Co., San Francisco, Cal.
 Mine & Smelter Supply Co., Denver, Colo.
 Montgomery, J. H. Machinery Co. (New & Second Hand), 1220 Curtis, Denver, Colo.
 Morgan-Gardner Electric Co. (Coal, etc.), 2640 Shields av, Chicago
 Morris County Machine & Iron Co., Dover, N. J.
 Mullen, John & Son (Coal, etc.), Shamokin, Pa.
 National Iron Works, Spokane, Wash.
 Northwestern Iron Works, Seattle, Wash.
 Ottumwa Iron Works (Coal, Gold & Silver), Ottumwa, Iowa
 Pass City Foundry & Machine Co., El Paso, Tex.
 Phoenix Iron Works, Portland, Ore.

Portage Lake Foundry & Machinery Co., Hancock, Mich.
 Portland Iron Works, Portland, Ore.
 Power & Mining Machinery Co., 52 William, New York. Works: Cudahy, Wis.
 Prescott, D. Clint Co., Menominee, Mich.
 Prescott, Fred, M. Steam Pump Co., Milwaukee, Wis.
 Prescott Supply Co., Marinette, Wis.
 Prox, Frank Co., Terre Haute, Ind.
 Puget Sound Iron & Steel Works, Tacoma, Wash.
 Raymond Bros. Impact Pulverizer Co., 143 Laflin, Chicago, Ill.
 Risdon Iron Works, San Francisco, Cal.
 Riverside Iron Works Co., Kansas City, Kan.
 Robbins Conveying Belt Co., Park Row Bldg., New York City
 Rogers, Jno. M. Boat Gauge & Drill Co., Gloucester City, N. J.
 Salt Lake Engineering Works, Salt Lake City, Utah
SCHULE, F. H. CO. (Dry Concentrators), 27 Thames, New York. (See adv. index, end of book)
 Scottsdale Foundry & Mach. Co., Scottsdale, Pa.
 Silver Bow Foundry & Machine Co., Butte, Mont.
 Silver Bros. Iron Works Co., Salt Lake City, Utah
 Silver, Hynum A., Fdry. & Machine Co., Salt Lake City, Utah
 Snyder, Fred'k T. & Co. (Complete Plants), 324 Dearborn, Chicago
 Sound Iron Works, Everett, Wash.
 Standard Car & Foundry Co., Pittsburg, Pa.
 Stroh, W. H. (Est. of) (Coal, etc.), Mauch Chunk, Pa.
 Strothman Iron Co., Superior, Wis.
STROUD, E. H. & CO., 36 La Salle, Chicago, Ill. (See adv. index, end of book)
 Sturtevant Mill Co., Claytown, Pa.
SULLIVAN MACHINERY CO., Rail- way Exchange bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
 Tamaqua Mfg. Co., Tamaqua, Pa.
 Traylor Engineering Co., 114 Liberty, New York. Works: Allentown, Pa.
 Union Foundry & Machine Co., 224 W Carson, Pittsburg, Pa.
 Union Iron Works (Gold, Silver, etc.), San Francisco, Cal.
 Union Iron Works (Inc.), Spokane, Wash.
 Urie Boiler & Machine Co., 607 W 5th, Kansas City, Mo.
 Vulcan Iron Works, San Francisco, Cal.
 Vulcan Iron Works Co., Seattle, Wash.
 Vulcan Iron Works, Wilkes-Barre, Pa.
WELLMAN-SEAEVER-MORGAN CO. (All Kinds), Cleveland, O., & Akron, O. (See adv. index & branch offices, end of book)
 Whitcomb, Geo. D. & Co., 86 Ohio, Chicago, Ill.
 Willamette Iron & Steel Works, Portland, Ore.
 Wisconsin Engine Co., Corliss, Wis.

Mining Machinery (Electric)

(See Coal Mining Machinery, Electric)

Mining Machinery (Hydraulic)

ABENDROTH & ROOT MFG. CO., Newburgh, N. Y. (See adv. below; branch offices, end of book)
 Prescott, Fred M. Steam Pump Co., West Allis, Wis.

Mining Machines

(See Coal Cutting Machines)

Mining & Crushing Machinery (Portable)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

Mitreing Machines

American Woodworking Machinery Co., Rochester, N. Y.; West St. Bldg., New York
 Beach, H. W., Montrose, Pa.
 Bentel & Margedant Co. (Spoke), Hamilton, O.
 Brandon Machine Co. (Mitreing Machine & Vice Combined), Akron, O.
 Chandler & Price Co. (For Printers' Brass or Metal Rule, etc.), Cleveland, O.
 Eureka Electric Mitre Machine Co. (Electric), Bloomington, Ill.
 Fay, J. A. & Egan Co., cor Front & John, Cincinnati, O.
 Fox Machine Co., Grand Rapids, Mich.
GRAMMES, L. F. & SONS (Mitre Saws), Allentown, Pa. (See adv. index, end of book)
 Hoe, R. & Co., 504 Grand, N. Y.
 Marsh, H. C., Rockford, Ill.
 Power, L. & Co. (Mitre Saws), 20 S 23d, Phila., Pa.
 Seymour & Whitlock (Foot & Hand Power), Newark, N. J.
 Smith, H. B. Machine Co., Smithville, N. J., & 121 Liberty, New York
 Spilker, B. J. Mfg. Co., Cincinnati, O.
 Walter's, Wm. P. Sons (and Vice Combined), 1233 Market, Phila., Pa.
 Wesel, F. Mfg. Co., 10 Spruce, New York

Mixing Machinery

(See Concrete & Mortar Mixers; also Paint Grinding & Mixing Machines)

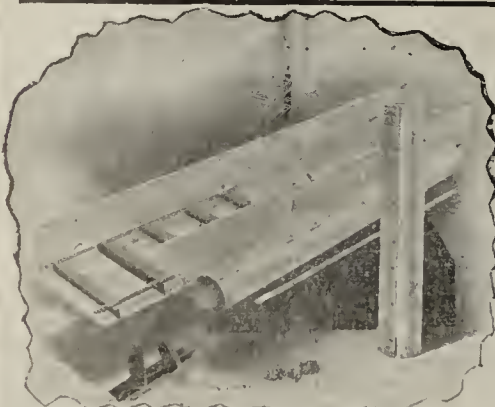
Molding Machines (Folding)

Berkshire Mfg. Co., Cleveland, O.

Molding Machines (Foundry)

Adams Company ("The Farwell Universal Automatic & Multiple"), Dubuque, Ia.
 Arcade Mfg. Co. ("Modern," for Small Castings), Freeport, Ill.
 Berkshire Mfg. Co., Cleveland, O.
 Bryan Vacuum Molding Machine Co., Lockport, N. Y.
 Bryant, O. Sons & Co., 1453 Niagara, Buffalo, N. Y.
 Buffalo Foundry Supply Co., 339 Babcock, Buffalo, N. Y.
 Delano, E. A. Co. (for Pulley Molding, etc.), 150 E. Huron, Chicago, Ill.
 Herman Pneumatic Machine Co. ("Herman" Pneumatic Jarring), Zellenople, Pa.
 Killing Moulding Machine Co. ("Killing"), Davenport, Ia.
 Macphail Molding Machine Co., Davenport, Ia.
 Mitchell-Parks Mfg. Co. (Gravity), St. Louis, Mo.
 Moline Tool Co., Moline, Ill.

HYDRAULIC MINING SUPPLIES



Punched and Formed Sheets, and Flame.

GET OUR PRICES ON

Hydraulic Giants, Gravel Elevators, Steel Riveted Piping, both Spiral Riveted and Punched for Nesting, Riffle Bars, Fumes, Riveting Tools, Etc.

ABENDROTH & ROOT MFG. COMPANY

Main Office and Works - NEWBURGH, N. Y.

Branches: NEW YORK CHICAGO PITTSBURG MEXICO CITY

Our valuable Hydraulic Hand-Book Free on Request



The Root Little Giant.

Mumford, E. H. Co., 17th & Callowhill, Phila., Pa.
 Norcross Molding Machine Co., Terre Haute, Ind.
 Oregon Foundry & Machine Co. ("Stratton"), Oregon, Ill.
 Paxson, J. W. Co., 1021 N Delaware av, Phila., Pa.
 Pridmore, Henry E., 918 S Rockwell, Chicago
 Racine Engine & Machine Co. ("Racine"), Racine, Wis.
 Reynolds & Co., New Haven, Conn.
 Richmond Foundry & Mfg. Co., Richmond, Va.
SMITH, J. D. FOUNDRY SUPPLY CO., 1581 Columbus rd, N. W., Cleveland, O.
 (See adv. index, end of book)
 Stowell Mfg. & Foundry Co., South Milwaukee, Wis.
 Syracuse Malleable Iron Works ("Burns Economic & Blake Roll-Over"), Syracuse, N. Y.
 Tabor Mfg. Co., 18th & Hamilton, Phila., Pa.
 Taylor-Wilson Mfg. Co., McKees Rocks, Pa.
 Turner Machine Co. ("McCanna," for Brass & Iron), 2049 N 2d, Phila., Pa.
 Webster & Perks Tool Co., Springfield, O.

Molding Sander Machines

Austin & Eddy ("Pioneer"), 117 Broad, Boston, Mass.
 Yerkes & Finan Wood Working Machine Co., St. Louis, Mo.

Monitor Machines

Pratt & Whitney Co. (Made only to Order), Hartford, Conn.

Mortar Mixing Machinery

(See Concrete Mixers)

Mortising Machines

(Mortising Machines are classified under the Kind Descriptive Thereof.)

Mosaic Machinery

Patch, F. R. Mfg. Co. (For Cutting Mosaic Blocks), Rutland, Vt.

Mosaic & Tile Floor Polishing Machines

(See also Floor Polishing Machines in letter F)
 Patch, F. R. Mfg. Co., Rutland, Vt.

Moving Picture Machines

Phonograph Co. of America (For the Home), 59 Bank, New York

Multigraph Machines

American Multigraph Co. ("Gammeter"), Case av & Kelley, Cleveland, O.

Muscle Testing & Lifting Machines

Rosenfield Mfg. Co., 585 Hudson, New York

Musical String Machinery

Leffler, Chas. & Co., 63 Clymer, Brooklyn, N. Y.

Nail Mill Machinery

Bates Machine Co. (Wire), Joliet, Ill.
 Kesty, Chas. C., Sunbury, Pa.
 Kilby Mfg. Co. (Wire, etc.), Cleveland, O.
 Miller's, H. J. Sons (Wire), Bridgewater, Mass.
 National Machinery Co. (Wire), Tiffin, O.
 Perkins, Henry Co. (Wire), Bridgewater, Mass.
 Pittsburg Mfg. Co. (Cut), Pittsburg, Pa.
 Walton & Mackee, Kokomo, Ind.

Nail Pulling Machines

(See Pullers, Nail)

Nailing Machines

(See Box Nailing Machines; also Hoop Nailing Machines.)

Name Plate Embossing Machines

Roovers Mfg. Co., 170 B'way, New York
 Schwerdtle Stamp Co., 41 Cannon, Bridgeport, Conn.
 Simplex Mfg. Co., 90 West, New York City

Neck Yoke Machinery

DEFIANCE MACHINE WORKS, Defiance, O. (See adv. index, end of book)

Needle Forming Machines

SHUSTER, F. B. CO. (Lingoe & Jacquard, Automatic), New Haven, Conn. (See adv. index, end of book)

Needle Machinery (Sewing Machine)

Langelier Mfg. Co., 67 Clifford, Providence, R. I.

Netting Machines

Fowler Net & Twine Co., 107 S. 2d, Phila., Pa.

Notching Machines

American Can Co., Merchants' Loan & Trust bldg., Chicago, Ill.

BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)

Leffler, Chas. A. & Co. (also Bench Notching Machinery for Pierced Tin Ware, Can, Boxes, etc.), 63 Clymer, Brooklyn, N. Y.

Long & Allstatter Co. (Disc Armature with Turret Tools), Hamilton, O.

NIAGARA MACHINE & TOOL WORKS, Buffalo, N. Y. (See adv. index, end of book)

Peck, Stow & Wilcox Co., Southington, Conn., & 27 Murray, N. Y.

Nougat Cutting Machines

Rittenhouse, Frank, Norristown, Pa.

Numbering Machines

Bates Machine Co., 346 B'way, N. Y.
 Bates Mfg. Co., 31 Union sq, New York
 Butler, A. G., 284 Pearl, N. Y.

Cushman & Denison Mfg. Co. ("Reliance"), 240 W 23d, New York

Force, W. A. & Co., 59 Beekman, New York
 Haynes & Co., 81 N. Main, Providence, R. I.

Smith, R. H. Mfg. Co., 293 Main, Springfield, Mass.

Stambaugh, Wm. B. ("Bates"), Metropolitan Life bldg, New York

Numbering & Paging Machines

Hoole Machine & Engraving Works ("Champion"), 29 Prospect, Brooklyn, N. Y.

Latham Machinery Co., 199 S Canal, Chicago

Sheridan, T. W. & C. B. Co., 56 Duane, New York, & 413 Dearborn, Chicago, Ill.

Nut Blanking Machines

National Machinery Co., Tiffin, O.
 Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.

Nut Boxing Machines

Silver Mfg. Co., Salem, O.

Nut Burring Machines

National Machinery Co., Tiffin, O.

Nut Facing Machines

Acme Machinery Co., Cleveland, O.
 Detrick & Harvey Machine Co., 508 E Preston, Baltimore, Md.

Hendricks Mfg. Co. ("Victor"), Waynesboro, Pa.

National Machinery Co., Tiffin, O.
 Newton Machine Tool Works (Inc.), 2347 Vine, Phila., Pa.

Niles-Bement-Pond Co., 111 B'way, New York

Nut Finishing Machines

Pawtucket Mfg. Co., Pawtucket, R. I.

Nut Machinery

(See Bolt & Nut Machinery.)

Nut Machines (Hot Pressed)

Acme Machinery Co. (Automatic), Cleveland, Ohio

Ajax Mfg. Co. (Automatic), Cleveland, O.
 American Machinery Co. ("Greenwood"), Wilmoughby, O.

National Machinery Co., Tiffin, O.

Nut Milling Machines

National Machinery Co., Tiffin, O.
 Newton Machine Tool Works Co. (Inc.), 2347 Vine, Phila., Pa.

Nut Tapping Machines

Acme Machinery Co. (Automatic), Cleveland, O.
 American Machinery Co. ("Greenwood"), Wilmoughby, O.

Automatic Machine Co., Bridgeport, Conn.
 Brown, H. B. Co., East Hampton, Conn.

Detrick & Harvey Machine Co., 508 E Preston, Baltimore, Md.

Eilers, H. P. Mfg. Co., 26 S Water, Cleveland, Ohio

Howard Iron Works, Buffalo, N. Y.
 Landis Machine Co., Waynesboro, Pa.

Niles-Bement-Pond Co., 111 B'way, New York
 Norwalk Mfg. Co., Norwalk, O.

Pawtucket Mfg. Co. (2, 3, 4, 6 & 9 Spindles), Pawtucket, R. I.)

Putnam Machine Co., Finchburg, Mass.
 Reece, E. F. Co., Greenfield, Mass.

Reed, Francis Co. (Upright, 2 to 4 Spindles, for 1/4-in. Nuts and under), Worcester, Mass.

St. Louis Machine Tool Co., 1114 S 8th st, St. Louis, Mo.

Webster & Perks Tool Co., Springfield, O.

Nut Tapping Machines (Multiple Spindle)

Acme Machinery Co., Cleveland, O.
 Detrick & Harvey Machine Co., Baltimore, Md.
 Pawtucket Mfg. Co., Pawtucket, R. I.
 Reed, Frances Co., Worcester, Mass.

Oat Meal Machinery

BARTLETT, C. O. & SNOW CO., French nr Columbus, Cleveland, O. (See adv. index, end of book)

Invincible Grain Cleaner Co. (Cleaning, Grading & Packing), Silver Creek, N. Y.

SCHULE, F. H. CO., 27 Thames, New York. (See adv. index, end of book)

Willamette Iron & Steel Works, Portland, Oregon

Oats & Rice Clipping Machines

Huntley Mfg. Co. ("Monitor" Dustless), Silver Creek, N. Y.

Oil Cake Packing Machines

French Oil Mill Machinery Co., Piqua, O.

Oil Cake Trimming Machines

French Oil Mill Machinery Co., Piqua, O.

Oil Cloth Machinery

CURRIER, CYRUS & SONS, Newark, N. J. (See adv. index, end of book)

Dienelt & Eisehardt, 1308 N Howard, Phila., Pa.

Moore & White Co. (Oil Cloth Printing Machines), 15th & Lehigh av, Phila., Pa.

SCHULE, F. H. CO., 27 Thames, New York. (See adv. index, end of book)

Waldron, Jno. Co., New Brunswick, N. J.

Oil Mill Machinery

Bushnell, G. H. Press Co., Thompsonville, Conn.

Callahan, W. P. & Co., 901 E. 3d, Dayton, O.

Chickasaw Iron Works, Memphis, Tenn.

French Oil Mill Machinery Co. (Oil Cake Trimming & Packing), Piqua, O.

Hardie Tynes Mfg. Co., Birmingham, Ala.

Lombard Iron Works & Supply Co., Augusta, Ga.

Platt Iron Works Co. (Cotton, Linseed, etc.), Dayton, O., & 100 B'way, N. Y.

SCHULE, F. H. CO., 27 Thames, New York. (See adv. index, end of book)

Thornburgh, H. L. & Co., 245 S Jefferson, Chicago, Ill.

Oil Testing Machines

(See Testing Machines, Oil)

Oil Well Machinery

(See Well Drilling Machinery)

Oil & Waste Saving Machines

Oil & Waste Saving Machine Co., Real Estate Exchange bldg., Phila., Pa.

Opticians' Machines

(See Jewelers' & Opticians' Machines & Tool)

Ore Handling Machinery

(See Coal & Ore Handling Machinery)

Ore Reduction Machinery**WELLMAN-SEEVER-MORGAN CO.**, Cleveland, O., & Akron, O. (See adv. index, end of book)**Ore Washing Machinery**Comstock, Geo. S., Mechanicsburg, Pa.
McLanahan Stone Machine Co., Hollidaysburg, Pa.Mine & Smelter Supply Co., Denver, Colo.
Scaife Foundry & Machine Co., Pittsburg, Pa.
Tamaqua Mfg. Co., Tamaqua, Pa.**Oyster Canners' Machinery****SPRAGUE CANNING MACHINERY**, Co., 42 River, Chicago, Ill. (See adv. index, end of book)**Package Filling Machines****SPRAGUE CANNING MACHINERY**, Co., 42 River, Chicago, Ill. (See adv. index, end of book)**Package Handling Machinery (Dept Store)**

Link Belt Co., W. 39th, cor Stewart av, Chicago, Ill., & 299 B'way, New York

Package Sorting Machines (Automatic)

Avery Scale Co., North Milwaukee, Wis.

Packing House MachineryAdt, Jno. B. (For Pork Packers, etc.), Baltimore, Md.
Brecht, Gus V. Butchers' Supply Co., 1201 Cass av, St. Louis, Mo.

Joslin, Schmidt & Co. (For Working up Waste Products), Cincinnati, O.

Murray Iron Works Co. (Choppers, Stuffers, Mixers, Rockers, Presses, etc.), Burlington, Iowa

Perrin, Wm. P. & Co., 46th & Loomis, Chicago, Ill.

Riverside Foundry & Machine Works, Riverside, Cal.

Riverside Iron Works, Kansas City, Kas.

Packing Machines

(See also Bag Filling Machines)

ALLIS-CHALMERS CO. (Flour, etc.), Milwaukee, Wis. (See adv. index & branch offices, end of book)

Barnard & Leas Mfg. Co. ("Eureka" Sugar, Flour, Bran, etc.), Moline, Ill.

Campbell, P. F. ("Richmond" Flour), 55 Laurel Phila., Pa.

Girard Machine Works (Inc.), 2616 Girard av., Phila., Pa.

Howes, S. Co. (Cement), Silver Creek, N. Y.

Huntley Mfg. Co., ("Monitor," for Flour, Bran, etc.), Silver Creek, N. Y.

Invincible Grain Cleaner Co., Silver Creek, N. Y.

Nurdyke & Marmou Co. (Bran, Flour, Sack, etc.), 1101 W. Morris, Indianapolis, Ind.

Ross, Chas. & Son Co. (Barrel, etc.), 148 Clason av, Brooklyn, N. Y.

Woolson & Deck Co. ("No Dust" Bag Packers), Wayne, N. J.

Pail Handle MachinesGerlach, Peter Co., 1708 Columbus Rd., Cleveland, O.
Goodspeed Machine Co., Winchendon, Mass.
Kilne, Lewis T., Alpena, Mich.**Pail Machinery**

(See Tub & Pail Machinery)

Paint Grinding & Mixing Machinery

(See also Mills, Grinding; also Machinery, Pulverizing)

Action, John, 118 John, Brooklyn, N. Y.
BARLETT, C. O. & SNOW CO., Cleveland, O. See adv. index, end of bookBerrill's, J. A. Sons, Waterville, N. Y.
Campbell, P. F., 55 Laurel, Phila., Pa.

Day, J. H. Co., 1146 Harrison av., Cincinnati, Ohio

Holmes & Blanchard Co., 39 Washington, N. Boston, Mass.

Houchin & Huber, 35 53d, Brooklyn, N. Y.
Kaestner & Co. (Inc.), 245 S. Jefferson, Chicago, Ill.

Kent Machine Works, 250 Plymouth, Brooklyn, N. Y.

Nebel, M. A., 72 Grand av, Brooklyn, N. Y.

Poole Engineering & Machine Co., Woodberry Station, Baltimore, Md.

Raymond Bros., Impact Pulverizer Co., 143 Laffin, Chicago, Ill.

Ross, Chas. & Son Co., 148 Clason av., Brooklyn, N. Y.

Sprout, Waldron & Co., Muncy, Pa.

STROUD, E. H. & CO., 36 La Salle, Chicago, Ill. (See adv. index, end of book)

Waterville Foundry & Mfg. Co., Waterville, N. Y.

Paint Roll MachinesKeene, Geo. C. & Co., 2327 Florence, Cincinnati, O.
Robinson, J. M. Mfg. Co., Cincinnati, O.**Paint Spraying Machines**

(See also Pneumatic Painting Machines)

Acorn Brass Mfg. Co., 51 N. Peoria, Chicago, Ill.

Bean Spray Pump Co. ("Bean" Pneumatic), San Jose, Cal.

Dayton Supply Co. ("Progress" & "Climax"), Dayton, O.

del Solar, J. A., 108 Fulton, New York

Eureka Pneumatic Spray Co., 21 Decatur, Brooklyn, N. Y.

Hook Mfg. Co. (Pneumatic), Hudson, Mich.

Humphries Mfg. Co. ("Hercules"), Mansfield, O.

Hurst, H. L. Mfg. Co., Canton, O.

MacLeod, Walter & Co. ("Buckeye"), 213 E. Pearl, Cincinnati, O.

MURALO COMPANY ("Cycle"), New Brighton, Borough of Richmond, New York.

(See adv. index, end of book)

STANDARD PNEUMATIC SPRAY CO., (Compressed Air), 1 & 3 Union sq, New York. (See adv. below)

Star Brass Works ("Binks Star"), 12 S Jefferson, Chicago, Ill.

Wallace Supply Co., 56 5th av, Chicago, Ill., & 26 Cortlandt, New York

Paint Spraying Machines (Compressed Air)**STANDARD PNEUMATIC SPRAY CO.**, 500 5th av, New York. (See adv. index, end of book)**Pamphlet Stitching Machines**

Brown, R. H. & Co., New Haven, Conn.

Pan Forming Machines*NIAGARA MACHINE & TOOL WKS.**, Buffalo, N. Y. (See adv. index, end of book)**Panel Raising Machines**

American Woodworking Machine Co., Rochester, N. Y. West st bldg, New York

Andrew, M. L. & Co., 2852 Spring Grove av, Cincinnati, O.

Atlantic Works (Inc.), 2821 Oakford, Phila., Pa.

Bentel & Margedant Co., Hamilton, O.

Cordesman, Rechlin Co., 25 Butler, Cincinnati, Ohio

Cordesman, Meyer & Co., 53 Central av, Cincinnati, O.

Fay, J. A. & Egan Co., Cincinnati, O.

Heath, W. A., Machine Co., Lestershire, N. Y.

Power, L. & Co., 20 S 23d, Phila., Pa.

Yerkes & Finan Woodworking Machine Co., St. Louis, Mo.

Pantagraph Machines

Hope, John & Sons Engraving & Mfg. Co., Providence, R. I.

Paper Bag Machinery

Brown Bag Filling Machine Co. (For Filling & Sealing Flat Paper Bags), Fitchburg, Mass.

Smith & Winchester Mfg. Co. (Cement, Flour, etc.), South Windham, Conn.

Rittenhouse, C. & Sons, Norristown, Pa.

Remington Machine Co., Wilmington, Del.

Dietz Machine Works, 126 Fontain, Phila., Pa.

Rau, Emanuel (Seed Bag, etc.), 211 Centre, New York

South Bend Machine Co., South Bend, Ind.

Paper Box Covering Machines

Hobbs Mfg. Co., Worcester, Mass.

KNOWLTON, M. D. CO., Rochester, N. Y. (See adv. on following page; branch offices, end of book)

Prankard, C. J. & Sons, Troy, N. Y.

Paper Box Edging Machines

Hobbs Mfg. Co., Worcester, Mass.

KNOWLTON, M. D. CO., Rochester, N. Y. (See adv. on following page; branch offices, end of book)**Paper Box Ending Machines**

Hobbs Mfg. Co., Worcester, Mass.

KNOWLTON, M. D. CO., Rochester, N. Y. (See adv. on following page; branch offices, end of book)**Paper Box Cutting & Scoring Machines**

Herrick & Cowell (Rotary), New Haven, Conn.

Paper Box Folding & Gluing Machines

Herrick & Cowell (Hand Fed), New Haven, Conn.

Paper Box Gumming Machines

Hobbs Mfg. Co., Worcester, Mass.

KNOWLTON, M. D. CO., Rochester, N. Y. (See adv. on following page; branch offices, end of book)**Paper Box Machinery**

Blessing, Louis, Jackson, Mich.

Beck, Chas. Paper Co. (Ltd.), 607 Chestnut, Phila., Pa.

GRAMMES, L. F. & SONS, Allentown, Pa. (See adv. index, end of book)

Griswold, Geo. M., 35 Union, New Haven, Conn.

Herrick & Cowell, New Haven, Conn.

Hobbs Mfg. Co. (Folding Machines), Worcester, Mass.

Inman Mfg. Co., Amsterdam, N. Y.

Kiugsbury & Davis Machine Co. ("Standard" Automatic Double End Setting), 102 Pearl, Boston, Mass.

Works, Contocook, N. H.

KNOWLTON, M. D. CO., Rochester, N. Y. (See adv. on following page; branch offices, end of book)

Leffler, Chas. & Co. (Metal Edge), 63 Clymer, Brooklyn, N. Y.

Marshall, Son & Co. (Gauge Table Shears, etc.), 226 Purchase, Boston, Mass.

Metcalf, J. C. Paper Box Machinery Co., 102 Pearl, Boston, Mass.

National Metal Edge Box Co., 8th & Willow, Phila., Pa.

Rau, Emanuel & Sons, 211 Center, New York

Robinson, John T. Co., Hyde Park, Mass.

Saranac Machine Co. ("Advance") Stapling Machines

Sheridan, T. W. & C. B. Co., 56 Duane, New York

NEW METHOD OF PAINTING BY COMPRESSED AIR. A GREAT LABOR SAVING DEVICE.

Our Painting Machine is constructed **ON ENTIRELY NEW LINES** and can be used only in connection with a Compressed Air Power Plant.

Our Painting Machine **WILL APPLY ANY KIND OF PAINT** on concrete, cement, brick, iron, wood, etc., better than can be done by brush, at **A GREAT SAVING OF LABOR AND EXPENSE.**

Paint does not run, peel, blister, crack, show laps or streaks. No squirting or splashing.
NO WASTING OF MATERIAL.



The above outfit can be used **FOR ALL KINDS OF COMPRESSED AIR WORK**, where a portable outfit is desirable.

WE SELL our Spraying Machine **ONLY WITH** our Combination Auto Air Compressor and **ONLY ONE** in each County.

YOU MAY SECURE THE SOLE RIGHTS for your County to own and operate our patented Paint Spraying and Sand Blasting Machines, **INCLUDING THIS COMBINATION AUTO TRUCK** and Air Compressor, **COMPLETE, READY FOR WORK**, for the sum of \$5,000.

Auto Truck with Air Compressor Combination, without Paint Spraying and Sand Blast Machines, \$3,500.

Auto Truck, without Air Compressor, from \$2,500 up.

All F. O. B. New York.

Delivery 90 Days.

For Further Information Address, Dept. S.

STANDARD PNEUMATIC SPRAY CO.

500 FIFTH AVENUE, NEW YORK.

Standard Sand Blast Machine

(PATENTED)

SIMPLE IN CONSTRUCTION
EASY TO OPERATE

FOR USE IN
FOUNDRY,
STONE YARDS,
R. R. YARDS

FOR CLEANING
Structural Iron Work,
Stone Buildings, etc.



PRICE REDUCED TO

\$125

NET CASH

F. O. B., N. Y.

Delivery 30 days
from receipt of
order

EVERY MACHINE
TESTED BEFORE
SHIPPING

MADE OF GALVANIZED IRON

TESTED TO 100 POUNDS PRESSURE

STANDARD PNEUMATIC SPRAY CO.

500 FIFTH AVENUE, NEW YORK

Paper Box Topping Machines

Hobbs Mfg. Co., Worcester, Mass.
KNOWLTON, M. D. CO., Rochester,
 N. Y. (See adv. below; branch offices, end of book)

Paper Can Machinery

Chicago Paper Tube & Can Co. ("Williams" For Round Paper Cans & Boxes), 20 N May, Chicago, Ill.
 Dayton Machine Works (Paper Pail), 8 Canal, Dayton, O.
KNOWLTON, M. D. CO., Rochester,
 N. Y. (See adv. below; branch offices, end of book)

Paper Clip & Fastener Machines

KNOWLTON, M. D. CO., Rochester,
 N. Y. (See adv. below; branch offices, end of book)
 Special Machinery Co. (Automatic), Bridgeport, Conn.

Paper Coating Machines

KNOWLTON, M. D. CO., Rochester,
 N. Y. (See adv. below; branch offices, end of book)

Paper Covering Machines

AITON MACHINE CO. (for Wires & Cables), 126 Liberty, New York. Works: Harrison, N. J. (See adv. index, end of book)
KNOWLTON, M. D. CO., Rochester,
 N. Y. (See adv. below; branch offices, end of book)

Paper Cutting Machines

Challenge Machinery Co. (Lever & Power), Grand Haven, Mich.
 Candler & Price Co., Cleveland, O.
 Child Acme Cutter & Press Co. ("Acme" Self-Clamping), Boston, Mass.
 Eardley & Winterbottom, 125 Worth, New York City
 Fuller, E. C. Co. ("White"), 28 Reade, New York
 Golding & Co., 540 Pearl, New York
GRAMMES, L. F. & SONS, Allentown, Pa. (See adv. index, end of book)
 Hamblet, Geo. W. (Revolving), Lawrence, Mass.
 Hamblet Machine Co. (Revolving), Lawrence, Mass.
 Inman Mfg. Co., Amsterdam, N. Y.
KNOWLTON, M. D. CO., Rochester,
 N. Y. (See adv. below; branch offices, end of book)
 Oswego Machine Works (Niel Gray, Jr., Prop.) ("Oswego," "Brown & Carver," Hand Lever, Bench, Hand Wheel Drive, Power, etc.), Oswego, N. Y.
 Frankard, C. J. & Sons. (Corner Cutters), Troy, N. Y.
 Seybold Machine Co., Dayton, O.; 312 Dearborn, Chicago, Ill.
 Sheridan, T. W. & C. B. Co., 56 Duane, New York
 Smith & Winchester Mfg. Co., S. Windham, Conn.
 Standard Machine Co. (Sanborn), Mystic, Conn.
 Streeter, N. R. & Co., Rochester, N. Y.

Paper Folding Machines

(For Bookbinders, Printers, etc.)

Brown Folding Machine Co., Erie, Pa.
 Chambers Bros. Co. (For Book Binders & Printers), 52d below Lancaster av, Phila., Pa.
 Dexter Folder Co., Pearl River, N. Y.
 Eclipse Paper Folding Machine Co., Sidney, O.
KNOWLTON, M. D. CO., Rochester,
 N. Y. (See adv. below; branch offices, end of book)
 Sheridan, T. W. & C. B. Co., 56 Duane, New York, & 413 Dearborn, Chicago, Ill.

Paper Folding Machines (Automatic)

Dick, A. B. Co. (for Office Use), 47 Nassau, New York
 Nind Letter Folder Co. (Nind-Julian"), 447 S Canal, Chicago, Ill.

Paper Napkin Machinery

Waldron, Jno. Co., New Brunswick, N. J.

Paper Punching Machinery

KNOWLTON, M. D. CO., Rochester,
 N. Y. (See adv. below; branch offices, end of book)

Paper Rewinding Machines

KNOWLTON, M. D. CO., Rochester,
 N. Y. (See adv. below; branch offices, end of book)
 Prankard, C. J. & Sons, Troy, N. Y.

Paper Rule Forming Machines

Herrick & Cowell, New Haven, Conn.

Paper Ruling Machines

Hickok, W. O. Mfg. Co., Harrisburg, Pa.

Paper Scorching Machines

Beek, Chas. Paper Co. (Ltd.), 607 Chestnut, Phila., Pa.

Paper Slitting & Rewinding Machines

Lietz Machine Works, 126 Fontain, Phila., Pa.
 Hobbs Mfg. Co., Worcester, Mass.
 Fales, L. F. (Paper Slitting), Walpole, Mass.
 Kidder Press Co., Dover, N. H., & 150 Nassau, New York
KNOWLTON, M. D. CO., Rochester,
 N. Y. (See adv. below; branch offices, end of book)
 Koegel, Chas. & Sons, Holyoke, Mass.
 Marshall, Son & Co. (For Roll Paper), Boston, Mass.

Paper Tarring Machines

Pioneer Iron Works, 149 Pioneer, Brooklyn, N. Y.

Paper Tube Machines

KNOWLTON, M. D. CO., Rochester,
 N. Y. (See adv. below; branch offices, end of book)

Paper, Twine & Cordage Machinery

Brownell, G. L., Worcester, Mass.

Paper & Pulp Mill Machinery

AITON MACHINE CO. (Washers, Mixers, Refiners & Calenders), 126 Liberty, New York. Works: Harrison, N. J. (See adv. index, end of book)
 Appleton Machine Co., Appleton, Wis.
 Bagley & Sewall Co., Watertown, N. Y.
 Bellows Falls Machine Co., Bellows Falls, Vt.
 Beloit Iron Works, Beloit, Wis.
 Bess Machine Co., Hamilton, O.
BIGELOW, CHENEY WIRE WORKS, Springfield, Mass. (See adv. index, end of book)
 Black & Clawson Co., Hamilton, O.
 Brownville Iron Works, Brownville, N. Y.
 Cedar Point Foundry Co., Port Henry, N. Y.
 Clark, H. C. & Son, Lee, Mass.
CURRIER, CYRUS & SONS (Paper Mill Machinery), Newark, N. J. (See adv. index, end of book)
 Dayton Globe Iron Works Co., Dayton, O.
 Dexter Folder Co., Pearl River, N. Y.
 Dillon Machine Co., Lawrence, Mass.
 Dilts Machine Works, Fulton, N. Y.
 Dix, J. L. Foundry Co., Glens Falls, N. Y.
 Downingtown Mfg Co., Downingtown, Pa.
 Emerson Mfg. Co., Lawrence, Mass.
 Farrel Foundry & Machine Co., Ansonia, Conn.
 Friction Pulley Q Machine Works, Sandy Hill, N. Y.
 Fulton Machine & Vise Co., Lowville, N. Y.
 Hankey, A. & Co. (Paper Mill Engines, Bars & Plate), 2235 Vine, Phila., Pa.
 Holyoke Machine Co., Holyoke, Mass., & Worcester, Mass.
 Horne, J. H. & Sons Co., Lawrence, Mass.
 Hunt, Rodney Machine Co., Orange, Mass.
 Hutchinson, C. H., Manchester, N. H.
 Improved Paper Machinery Co., Nashua, N. H.
JEFFREY MFG. CO., Columbus, O. (See adv. index & branch offices, end of book)
 Jolly, J. & W., Holyoke, Mass.
 Jones, E. D. & Sons Co., Pittsfield, Mass.
 Kidder Machine Co., Franklin Falls, N. H.
 Koegel, Chas. & Son, Holyoke, Mass.
 Mills Machine Co., Lawrence, Mass.
 Moore & White Co., 15th & Lehigh av, Philadelphia, Pa.
MORRIS MACHINE WORKS, Baldwinville, N. Y. (See adv. index, end of book)
 Nebel, M. A., 72 Grand av, Brooklyn, N. Y.
 Noble & Wood Machine Co., Hoosick Falls, N. Y.
 Penney, J. W. & Sons Co., Mechanics' Falls, Me.
 Perkins, B. F. & Son, Holyoke, Mass.
 Portland Co., Portland, Me.
 Portland Iron Works (Inc.), Portland, Oregon
 Pusey & Jones Co., Wilmington, Del.
 Rice-Barton & Fales Machine & Iron Co., Worcester, Mass.
 Sandy Hill Iron & Brass Works, Sandy Hill, N. Y.
 Scott, Olin, Pennigton, Vt.
 Seybold Machine Co., Dayton, O.
 Shurtle Bros. Machine Co., Middletown, Ohio.
 Smith & Winchester Mfg. Co., South Windham, Conn.



203 Wooster Street - NEW YORK CITY
 80 West Jackson Boulevard, CHICAGO, ILL.
 23 Gogswell Road - LONDON, E. C., ENG.



MACHINERY FOR

Cutting, Scoring, Forming, Treating and Gumming

PAPER, STRAWBOARD OR SHEET FABRICS

Rope Papers a Specialty

Paper Gummed, Slit and Cut into Sheets

M. D. KNOWLTON COMPANY, Rochester, N. Y.

Stillman, L. H., Brattleboro, Vt.
 Taylor Bros. & Co. (Engine Bars & Plates),
 Fultou, N. Y.
 Thompson Mfg. Co., Lancaster, N. H.
 Ticonderoga Machine Works, Ticonderoga, N. Y.
 Townsend Furnace & Machine Shop Co., Al-
 bany, N. Y.
 Union Iron Works, Bangor, Me.
 Union Machine Co., Fitchburg, Mass.
 Valley Iron Works Co., Appleton, Wis.
 Werner & Pfeleiderer (Paper Pulp Machines,
 Rapid Dissolvers, etc.), Saginaw, Mich.
 Wetherill, Robert & Co., Chester, Pa.
 Wheelwright Filler & Mfg. Co., Providence,
 R. I.
 Windsor Locks Machine Co., Windsor
 Conn.

Paraffining Machines

KNOWLTON, M. D. CO., Rochester,
 N. Y. (See adv. index & branch offices, end
 of book)
 Waldron, Jno. Co., New Brunswick, N. J.

Paste Mixing Machines

Acton, John, 118 John, Brooklyn, N. Y.
 Day, J. H. Co., Cincinnati, O.
KNOWLTON, M. D. CO., Rochester,
 N. Y. (See adv. index & branch offices, end
 of book)
 Ross, Chas. & Son Co., 148 Classon av, Brook-
 lyn, N. Y.

Pasteurizing Machines

KOVEN, L. O. & BRO., 50 Cliff, New
 York. (See adv. index, end of book)
 Barry-Wehmiller Machy. Co. ("National"), 2042
 Walnut, St. Louis, Mo.
 Miller Pasteurizing Machine Co., Canton, O.
 Miller-Tyson Co., Canton, O.

Pattern Makers' Machinery

(See Lathes, Pattern Makers'.)

Pattern Shop Sawing Machines

Baker Bros., Toledo, O.
 Hobbs Mfg. Co., Worcester, Mass.

Pea Cannery Machinery

SPRAGUE CANNING MACHINERY
 Co., 42 River, Chicago, Ill. (See adv. index,
 end of book)

Pea Harvesting Machinery

(See Harvesters, Bean & Pea)

Pea Hulling Machinery

Chlsholm-Scott Co., Niagara Falls, N. Y.

Peach Pitting Machines

SPRAGUE CANNING MACHINERY
 Co. (For Cannery), 42 River, Chicago, Ill.
 (See adv. index, end of book)

Peanut Machinery

Ayers, J. R., Petersburg, Va.
 Cardwell Machine Co. (Pickers & Cleaners,
 Shellers & Separators), Richmond, Va.
 Hench & Dromgold Co., Inc., York, Pa.
 Johnson & Field Mfg. Co., Racine, Wis.
 Stratton - Bragg (Pickers, Cleaners, etc.),
 Petersburg, Va.
 Straub, A. W. & Co., Phila., Pa.

Pearl Button Machinery & Tools

Holub & Dusha Co., 1801-1st av, New York
 Northampton Emery Wheel Co., Leeds, Mass.
 (See adv. index, end of book)

Peat Fuel Machinery

Commercial Artificial Fuel Co., Toledo, O.
 National Peat Fuel Co., Detroit, Mich.
 Peatkoal Co., 30 Broad, N. Y.
 U. S. Peat Fuel Co., Ft. Dearborn bldg, Chi-
 cago, Ill.

Perforating Machines

Bates Machine Co., 90 West, New York
BLISS, E. W. CO., 19 Adams, Brook-
 lyn, N. Y. (See adv. index, end of book)
 Burton's, A. G. Son, 46 S Clinton, Chicago, Ill.
 Cross & Speirs Machine Co. (Sheet Metal),
 Waterbury, Conn.
 Cummins, B. F. Co. ("Chicago" Hand for
 Check, R. R. Ticket Dating, etc.), 42 W
 Jackson boul, Chicago, Ill.
 Dewes, A., 243 Centre, N. Y.
 Erdle & Schenck, Rochester, N. Y.
 Latham Machinery Co., 199 S Canal, Chicago,
 Ill.
 Long & Allstatter Co. (Sheet Metal), Hamilton,
 Ohio
 National Perforating Machine Co., Nat'l Life
 bldg., Kansas City, Mo.
NIAGARA MACHINE & TOOL
 Works, Buffalo, N. Y. (See adv. index, end
 of book)
 Waterbury Farrel Foundry & Machine Co.,
 Waterbury, Conn.

Pharmaceutical Machinery

Colton, Arthur, 184 Brush, Detroit, Mich.
 Hall, Albert B., Indianapolis, Ind.
 Remington Mfg. Co., Merchants' bldg, Phila.,
 Pa.

Phosphate Mill Machinery

Bailey-Lobby Co., Charleston, S. C.
 Kehoe, Wm. & Sons, Savannah, Ga.
 Poole Engineering & Machine Co., Woodberry
 Station, Baltimore, Md.
 Walker & Elliott, Wilmington, Del.

Photo Engravers' Machinery

Royle, Jno. & Sons, Paterson, N. J.

Photo Printing Machines

Rondinella, L. F. ("Star" Sun & Electric),
 Stephen Girard bldg, Phila., Pa.

CHENEY BIGELOW WIRE WORKS

Established 1842 **SPRINGFIELD, MASS.** Manufacturers of

FOURDRINIER WIRES

CYLINDER MOLDS, DANDY ROLLS, ALSO
 BRASS, COPPER AND IRON WIRE CLOTH

Bank and Office Railings and Grille Work

SOLE MANUFACTURERS OF THE

BELL PATENT FLAT WIRES for Book Papers

Photograph Card Beveling Machines

Dietz Machine Works, 126 Fountain, Phila., Pa.

Photograph Machines

National Photograph Machine Co., 85 Beaver, New York

Piano Action Machinery

Erlander, Julius, 172 Centre, New York
Nilson, A. H. Machine Co., Bridgeport, Conn.
Prybil, P. (Est. of), 512 W 41st, New York

Piano & Music String Machinery

Leffler, Chas. & Co., 63 Clymer, Brooklyn, N. Y.

Pick Eye Forging Machines

Birmingham Iron Foundry, Derby, Conn.

Pick & Sledge Handle Machinery

DEFIANCE MACHINE WORKS, Defiance, O. (See adv. inde, end of book)

Picket Heading & Pointing Machines

DEFIANCE MACHINE WORKS, Defiance, O. (See adv. index, end of book)
Hall & Brown Woodworking Machine Co., 1917 N. Bway., St. Louis, Mo.

Picture Frame Machinery

McFarlan & Spilker Mfg. Co., 1652 Dorman, Cincinnati, O.
Marsh, H. C. (and Picture Frame Vise, Combined), Rockford, Ill.
Shawver Company (Oval Cutter, "Springfield"), Springfield, O.

Pig Iron Casting Machines

American Casting Machine Co., Pittsburg, Pa.
Welmer Machine Works Co., Lebanon, Pa.

Pile Driving Machinery

AMERICAN HOIST & DERRICK CO., St. Paul, Minn. (See adv. index & branch offices, end of book)

Beatty, M. & Sons, Welland, Ontario, Can.
Bucyrus Co. (Railroad), S. Milwaukee, Wis.

BYERS, JNO. F. MACHINE CO., Ravenna, O. (See adv. index, end of book)

CARLIN'S, THOS. SONS CO., 1300 River av, Allegheny, Pa. (See adv. index, end of book)

Contractors' Plant Mfg. Co, Buffalo, N. Y.

INGERSOLL-RAND CO., 11 B'way, New York. (See adv. index & branch offices, end of book)

LIDGERWOOD MFG. CO., 96 Liberty, New York, & Old Colony bldg, Chicago, Ill. (See adv. index & branch offices, end of book)

McMyler Mfg. Co., Cleveland, O. (book)
MEAD-MORRISON MFG. CO., Cambridge (Boston), Mass., & 11 B'way, New York. (See adv. index & branch offices, end of book)

MUNDY, J. S., 20 Prospect, Newark, N. J. (See adv. index and branch offices, end of book)

SHAW, WILLIS, 171 Lasalle, Chicago, Ill. (See adv. index, end of book)
Toledo Foundry & Machine Co., Toledo, O.
Vulcan Iron Works, Fulton & Irving av, Chicago, Ill.

Pill Coating Machines

Colton, Arthur (Gelatine, etc.), Detroit, Mich.

Pill Making Machines

Colton, Arthur (Automatic), 184 Brush, Detroit, Mich.
Day, J. H. Co., 1144 Harrison av, Cincinnati, O.

Pin Drilling Machines

Ajax Mfg. Co. (Automatic, Multiple Spindle), Cleveland, O.

Pin Machinery

(See Hook & Eye Machinery)

Pin Pointing Machinery

Baird Machine Co., Oakville, Conn.
Manville, E. J. Machine Co., 176 Meadow, Wabterbury, Conn.

Pin Sticking Machines

Baird Machine Co., Oakville, Conn.

Pineapple Machinery

SPRAGUE CANNING MACHINERY Co. (For Cannery), 42 River, Chicago, Ill. (See adv. index, end of book)

Pinking & Scalloping Machines

Ahlstrom, O. J., 711 B'way, New York
Durbrow & Hearne Mfg. Co., 12 Wooster, New York
Pitt & Lienhardt ("S. & P."), 213th & Harlem river, New York, N. Y.
Lindner & Bradenburgh (Pinking), 239 Centre, New York
Rotary File & Machine Co. (Pinking Machines Only), 589 Kent av, Brooklyn, N. Y.
Stimpson, Edwin B. & Son, 31 Spruce, New York
Weiss, Geo. W. (Pinking), 374 Canal, New York

Pipe Bending Machines

CHICAGO PNEUMATIC TOOL CO. ("Chicago" Hand & Power), Fisher bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Pedrick & Smith ("P & S"), Germantown, Phila., Pa.
Standard Engineering Co., Ellwood City, Pa.

Wallace Supply Co. (Hand Power), 56 5th av, Chicago, Ill.
Walworth Mfg. Co., 132 Federal, Boston, Mass.
Wrigley, Thos & Co., 300 Dearborn, Chicago, Ill.

Pipe Calking Machines

Smith, A. P. Mfg. Co. (Automatic), Newark, N. J.

Pipe Crushing & Shearing Machines (Combined)

United Engineering & Foundry Co., Pittsburg, Pa.

Pipe Cutting & Threading Machines

(See also Cutters, Pipe.)

ARMSTRONG MFG. CO., Bridgeport, Conn., & 139 Centre, New York. (See adv. below)

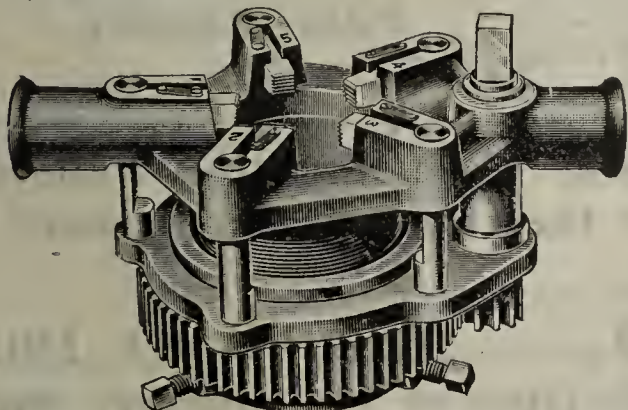
The Most Expensive Tools Are Really the Cheapest

when it comes to considering their life and wear. But the Armstrong Pipe Cutting and Threading Tools form one exception to this rule. While not cheap, they are much less expensive than others in purchase price, and still much cheaper in final returns of value. Call by writing and see. The catalogue, gratuitously furnished, will be sent you.

THE ARMSTRONG MFG. CO. BRIDGEPORT, CONN.

Bignall & Keeler Mfg. Co. ("Duplex" & "Peerless"), Edwardsville, Ill.
Borden Co. (Hand Pipe Threading Machines, "Solid-Adjustable Dies"), Warren, O.
Clow, Jas. B. & Sons (Portable), 344 Franklin, Chicago, Ill.
Columbus Machine Co., Columbus, O.
Cox & Sons Co., 215 Race, Philadelphia, Pa.
Crane Co. (Est. 1855), 519 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)

This illustrates our No. 2 Machine. LIST PRICE, \$100



THE "TOLEDO"

The Best Hand-Power Pipe-Threading Apparatus

ON THE MARKET TO-DAY

- No. 1 Threads Pipe 1 to 2 inches inclusive
- No. 1A Same as No. 1, except with RATCHET
- No. 2 Threads Pipe 2½ to 4 inches inclusive
- No. 3 " " 4½ to 8 " "
- No. 4 " " 9 to 12 " "

WRITE FOR PRICES AND DISCOUNTS

THE TOLEDO PIPE THREADING MACHINE CO.

Toledo, Ohio

Ourtis & Curtis Co., Bridgeport, Conn.
Dayton Machine Wks. (Cutting machines only), Dayton, O.
Detrick & Harvey Machine Co. (Pipe Threading Only), 508 E Preston, Baltimore, Md.
Eaton, Cole & Burnham Co., Bridgeport, Conn.
Fox Machine Co. (Cutting Machines Only), Grand Rapids, Mich.

FREVERT MACHINERY CO., 18 Dey,
New York. (See adv. index, end of book)
Hart Mfg. Co. ("Oster," Hand & Power), Cleveland, O.
Hoefler Mfg. Co. ("Hoefler" Adjustable Pipe Threading Machine), Freeport, Ill.
Jarecki Mfg. Co., Erie, Pa., & Pittsburgh, Pa.
Johnson, Israel H., Jr., Co., 1422 Callowhill, Philadelphia, Pa.

Loew Mfg. Co. ("Loew Victor"), Cleveland, O.
McWilliams & McConnell, Shamokin, Pa.
Merrill Mfg. Co. ("Apex"), Toledo, O.
Morris, P. Hollingsworth ("Douglass" & "Eclipse") (Portable Pipe Cutters up to 60 inch Pipe), 1501 S Front, Phila., Pa.
Murchev Machine & Tool Co., (Rapid Pipe Threading), Detroit, Mich.
National Machinery Co. (Pipe Threaders), Tiffin, O.

Niles-Bement-Pond Co. (Hand & Power), 111 B'way, New York

OIL WELL SUPPLY CO., 215 Water,
Pittsburg, Pa. (See adv. index, end of book)

Oster Mfg. Co., 2057 E 61st pl, Cleveland, O.
Saunders, D. Sons, Yonkers, N. Y.

SIMMONS, JOHN CO., 110 Centre,
New York. (See adv. index, end of book)

Smith, A. P. Mfg. Co. ("French" Pipe Cutting Machines), Newark, N. J.

Standard Engineering Co. ("Standard Wheel"), Elwood City, Pa.

Stoever Fdy. & Mfg. Co., Myerstown, Pa.
Titusville-Iron Co., Titusville, Pa.

TOLEDO PIPE THREADING MA-
chine Co., Toledo, O. (See adv. on preceding page)

TUOHY BROS. CO., 95 Liberty, New
York. (See adv. index, end of book)

United Engineering & Foundry Co. (Up to 30 inch Pipe), Farmers' Bank bldg., Pittsburg, Pa.

Walworth Mfg. Co., 132 Federal, Boston, Mass.
Wells, F. E. & Son Co. ("Wells"), Greenfield, Mass.

Williams Tool Co. (Pipe Threading), Erie, Pa.

Pipe Expanding & Flanging Machinery

Lovekin Pipe Expanding & Flanging Machine Co., 421 Chestnut, Phila., Pa.

Pipe Jointing Machines

Bertsch & Co., Cambridge City, Ind.

Pipe Polishing Machines

Standard Engineering Co., Ellwood City, Pa.

Pipe & Tube Mill Machinery

Rosedale Foundry & Machine Co., Allegheny, Pa.
Fisher Foundry & Mach. Co., Pittsburg, Pa.
Taylor-Wilson Mfg. Co., McKees Rocks, Pa.
United Engineering & Foundry Co., Farmers' Bank bldg., Pittsburg, Pa.

Pipe & Tube Straightening Machines

Brightman Mfg. Co., Shelby, O.
Fischer Foundry & Machine Co., Pittsburg, Pa.
Taylor-Wilson Mfg. Co., McKees Rocks, Pa.

Pitching Machines

Foster Pump Works, 224 Plymouth, Brooklyn, N. Y.

Gerlach, Peter Co., 1708 Columbus rd, Cleveland, O.

Haggenmiller, Th. (Est. of) ("Haggenmiller"), 827 N 4th, Phila., Pa.

National Machine Works, Sheffield & North av., Chicago, Ill.

Pawling & Harnischfeger, 38th & National avs., Milwaukee, Wis.

Rauch, Henry ("Universal"), 47 Centre, New York

Torchiani, H. ("Ideal"), 245 Pearl, New York

Placer Mining Machinery

Bucyrus Co., So. Milwaukee, Wis.
Risdon Iron Works, San Francisco, Cal.

Planing Machines

(See Planers, Various Kinds)

Plaster Mill Machinery

BARTLETT, C. O. & SNOW CO.,
Cleveland, O. (See adv. index, end of book)

Butterworth & Lowe (Inc.), Grand Rapids, Mich.

Dunning, W. D. ("Broughton" Plaster & Cement Mixers, etc.), 300 N Water, Syracuse, N. Y.

Ehram, J. B. & Sons Mfg. Co., Enterprise, Kan.

Great Western Mfg. Co., Leavenworth, Kan.

Sprout, Waldron & Co. (Crushers & Grinders, etc.), Muncy, Pa.

STANDARD SAND & MACHINE CO.
(For Wall Plaster), Cleveland, O. (See adv. index, end of book)

Sturtevant Mill Co. (Crushers, Grinders, Gypsum, etc.), Clayton & Park, Dor., Boston, Mass.

Wood Fibre Machinery Co. (for Wood Fibre Plaster), Sandusky, O.

Plaster of Paris Machinery

(See Plaster Machinery. Also Stucco Machinery)

Plate Glass Machinery

Braddock Machine & Mfg. Co., Braddock, Pa.
Fischer Foundry & Machine Co., Pittsburg, Pa.

Fritsch, Arthur Foundry & Machine Co., St. Louis, Mo.

West Penn Foundry & Machine Co., Avonmore, Pa.

Wickes Bros., Saginaw, Mich.

Plate Scarfing Machines

Detrick & Harvey Machine Co., 508 E Preston, Baltimore, Md.

Plate Straightening Machinery

Birdsboro Steel Foundry & Machine Co., Birdsboro, Pa.

Hilles & Jones Co., Wilmington, Del.

Lewis Foundry & Machine Co., 1001 Bingham, Pittsburg, Pa.

Niles-Bement-Pond Co., 111 B'way, New York

Philadelphia Roll & Machine Co., S 23d & Wash'n av., Philadelphia, Pa.

Pittsburg Mfg. Co., Pittsburg, Pa.

Putnam Machine Co., Fitchburg, Mass.

Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Philadelphia, Pa.

WATSON-STILLMAN CO., 26 Cort-
landt, New York. (See adv. index, end of book)

Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.

Plow Handle Machinery

Bentel & Margedant, Hamilton, O.

DEFIANCE MACHINE WORKS, De-
fiance, O. (See adv. index, end of book)

Root, B. M., Co., York, Pa.

Polishing Machines

(See also Buffing & Polishing Machines; also Wood Polishing Machines.)

American Nickeloid & Mfg. Co. (Sheet Zinc, Automatic), Peru, Ill.

Best, Levi Co. (Dealer), 45 Vesey, New York

(See also Buffing & Polishing Machines; also Wood Polishing Machines)

Best, Levi (Dealer), 45 Vesey, N. Y.

BLISS, E. W. CO., 19 Adams, Brook-
lyn, N. Y. (See adv. index, end of book)

Blount, J. G. Co. (Overhanging), Everett, Mass.

Brown & Sharpe Mfg. Co., Providence, R. I.

Buescher Mfg. Co., Elkhart, Ind.

Builders' Iron Foundry, Providence, R. I.

Diamond Machine Co., Providence, R. I.

Florence Machine Co., Florence, Mass.

FREVERT MACHINERY CO., 18 Dey,
New York. (See adv. index, end of book)

Niles-Bement-Pond Co., 111 B'way, New York

St. Louis Machine & Tool Co., 1114 S 8th, St. Louis, Mo.

Stimpson, Edwin B. & Son (Zinc & Copper Plates, etc.), 31 Spruce, New York

Stow Flexible Shaft Co. (Portable, Wood & Metal), n 26th & Buttonwood, Phila., Pa.

TUOHY BROS. CO., 95 Liberty, New
York. (See adv. index, end of book)

Polishing Machines (Marble & Stone)

Patch, F. R. Mfg. Co., Rutland, Vt.

Lincoln Iron Works, Rutland, Vt.

Polka Machines

Stowell, J. A. Co., Leominster, Mass.

Pop-Corn Machines

Deters, F. & Co., 906 Elm, Cincinnati, O.

Long, W. Z. (for Fritters Only), Springfield, O.

Porch Column Boring Machines

Bentel & Margedant (For Columns 12 to 26 feet), Hamilton, O.

Post Boring Machines

American Wood Working Machinery Co., Rochester, N. Y., West st. bldg., New York, N. Y.

Atlantic Works (Inc.), 2821 Oakford, Phila., Pa.

Bentel & Margedant Co., Hamilton, O.

Cordesman, Rechin Co., 25 Butler, Cincinnati, Ohio

Cordesman, Meyer & Co., 51 Central av., Cincinnati, O.

Fay, J. A. & Egan Co., Cincinnati, O.

Fox Machine Co., Grand Rapids, Mich.

GRAMMES, L. F. & SONS, Allentown,
Pa. (See adv. index, end of book)

Smith, H. B. Machine Co., Smithville, N. J., & 121 Liberty, New York

White, Jno. A. & Co., Dover, N. H.


Potato Harvesting Machinery

Dowden Mfg. Co., Prairie City, Ia.

Pottery Machinery

Adamson, Alex., Akron, O.

American Clay Machinery Co., Bucyrus, O., & Willoughby, O.

The DODGE  LINE of Shafting, Hangers, Wood and Iron Pulleys, Couplings, Friction Clutches—everything for the transmission of power—made by

DODGE MANUFACTURING CO., MISHAWAKA, IND.
and carried in stock in all the principal cities of the country. You should have a DODGE C-7 CATALOG.

BONNOT COMPANY, Canton, O. (See adv. index, end of book)
 Canton-Hughes Pump Co., Canton & Cleveland.
 Centre Foundry, Wheeling, W. Va.
 Crossley Mfg. Co., Trenton, N. J.
 Ivens, Wm. H. Sons Co., Treuton, N. J.
 Mackenzie's, Duncan Sons Co., Trenton, N. J.
 Raymond, C. W. Co., Dayton, O.
 Taplin, Rice & Co., Akron, O.
 Thropp, Jno. E. Sons Co., ft. of Lewis, Treuton, N. J.
 Williams Foundry & Machine Co., Akron, O.

Powder Filling & Folding Machines

Automatic Powder Filling Co. (Automatic), Providence, R. I.

Powder Mill Machinery

(See also Gun Powder Machinery.)

BARTLETT, C. O. & SNOW CO., (Rifle & Blasting), French nr Columbus, Cleveland, O. (See adv. index, end of book)
 Eyster, Weiser & Co. (Ltd.), York, Pa.
FAWCUS MACHINE CO., 2820 Smallman, Pittsburg, Pa. (See adv. index, end of book)
 Greenwald, I. & E. Co., 720 E Pearl, Cincinnati, O.
 Kaestner & Co. (Inc.) (For Gun & Blasting), 241 S Jefferson, Chicago, Ill.
 Pusey & Jones Co., Wilmington, Del.
 Standard Engineering Co. (To Order), Ellwood City, Pa.
 Treadwell, M. H. & Co., 90 West, New York, Works: Lebaun, Pa.

Power Transmitting Machinery

(See also Rope Transmitting Machinery)

For Gears, Pulleys, Shafting, Haugers, Bearings, etc., see Index of Contents.
 Aetna Foundry & Machine Co., Springfield, Ill.
ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)
AMERICAN WELL WORKS (Pillow Blocks), Aurora, Ill. (See adv. index & branch offices, end of book)
 Barnard & Leas Mfg. Co., Moline, Ill.
 Birminghams Iron Foundry (Shafting, Gearing, etc.), Derby, Conn.
 Braddock Machine & Mfg. Co. (for Rolling Mills, etc.), Braddock, Pa.
BRODESSER ELEVATOR MFG. CO., Milwaukee, Wis. (See adv. index, end of book)
BROWN, A. & F. CO., 25 Dey, New York. Works: Elizabethport, N. J. (See adv. index, end of book)
 Caldwell, H. W. & Son Co., 17th & Western av., Chicago, Ill.
CALDWELL, W. E. CO., Louisville, Ky. (See adv. index, end of book)
CANTON FOUNDRY & MACHINE CO., Canton, O.
 Cole Mfg. Co., Lakeport, N. H.
 Cresson, Geo. V. Co., Allegheny av W of 17th, Phila., Pa.
 Davis, F. M. Iron Works Co., 8th & Larimer, Denver, Col.
 Dayton Globe Iron Works Co., Dayton, O.
DODGE MFG. CO., Mishawaka, Ind. (See adv. on preceding page; branch offices, end of book)

Ellicott Machine Co. (Electrical), Bush & Severn, Baltimore, Md.
 Falls Rivet & Machine Co., Cuyahoga Falls, O.
 Farrel Foundry & Machine Co., Ansonia, Conn.
FAWCUS MACHINE CO., 2820 Smallman, Pittsburg, Pa. (See adv. index, end of book)

Filer & Stowell Co., Home Office, Milwaukee, Wis.
 Frick Co., Waynesboro, Pa.
 Fulton Engine Works, Los Angeles, Cal.

GENERAL ELECTRIC CO. (Electric), Schenectady, N. Y., & 44 Broad, New York. (See adv. below; branch offices, end of book)

Golden's Foundry & Machine Co., Columbus, Ga.
 Greenwald, I. & E. Co., 720 E Pearl, Cincinnati, O.

Hill Clutch Co., ft 58th N. W., Cleveland, O.
 Holyoke Machine Co., Holyoke, Mass., & Worcester, Mass.

Howe Scale Co. of Illinois, 1315 Wabash av, Chicago, Ill.

Hunt, Rodney Machine Co., Orange, Mass.
 Hunter, Jas. Machiue Co., North Adams, Mass.
 Huntsville Foundry & Machine Works, Huntsville, Ala.

JEFFREY MFG. CO., Columbus, O. (See adv. index & branch offices, end of book)

Jones, E. D. & Sons Co., Pittsfield, Mass.
 Jones, W. A. Foundry & Machine Co., 143 W North av, Chicago, Ill.

Jones & Laughlin Steel Co., Pittsburg, Pa.
 Kaltenbach & Griess (Engines & Contracting), Kaestner & Co. (Inc.), 241 S Jefferson, Chicago, Ill.

Keasey Pulley Co., Toledo, Ohio
 Klein, Chas. C. (Mechanical & Electrical), 2850 N Marshall, Phila., Pa.

LANE MFG. CO., Montpelier, Vt. (See adv. index, end of book)

Link Belt Co. (Electric, Steam & Compressed Air), W 39th & Stewart av, Chicago, Ill., & 299 B'way, New York

Marseilles Mfg. Co., Marseilles, Ill.
 Medart Patent Pulley Co., 3500 De Kaib av, St. Louis, Mo.

Meese & Gottfried Co., 167 Fremont, San Francisco, Cal.

MINNEAPOLIS STEEL & MACHINE-ry Co., Minneapolis, Minn. (See adv. index & branch offices, end of book)

Minster Machine Co., Minster, O.
 National Foundry & Supply Co., Williamsport, Pa.
 Naylor Bros. Peekskill, N. Y.

Nordyke & Marmon Co., Indianapolis, Ind.
 Phoenix Iron Works, Portland, Ore.

Platt Iron Works Co., Dayton, O., & 100 B'way, New York

Plamondon, A. Mfg. Co., 57 S Clinton, Chicago, Ill.

Poole Engineering & Machine Co., Woodberry Station, Baltimore, Md.
 Portland Iron Works (Inc.), 14th & Northrup, Portland, Ore.

Power & Mining Machinery Co., 52 William, New York. Works: Oudaky, Wis.

Ramming, Jno. Machine Co., 300 S. Main, St. Louis, Mo.

Savage, W. J. & Co., Knoxville, Tenn.
 Sellers, Wm & Co. (Inc.), 1600 Hamilton, Phila., Pa.

Skillin & Richards Mfg. Co., 147 Fulton, Chicago, Ill.

Smith, Jas. & Co. (Inc.), 421 Race, Phila., Pa.
 Smith, S. Morgan Co., York, Pa.
 Sprout, Waldron & Co., Muncy, Pa.

Standard Pressed Steel Co. (Pressed Steel Shaft Hangers), 20th & Clearfield, Phila., Pa.

Standard Roller Bearing Co. (Roller Bearing), N 48th & Girard av., Phila., Pa.

Standish Machine & Supply Co. (Angle Transmitters), Columbus, Ohio

Stephens Adamson Mfg. Co., Aurora, Ill.
 Strelinger, Chas. A. Co., Detroit, Mich.

Trump Mfg. Co., Springfield, O.
TUOHY BROS. CO., 95 Liberty, New York. (See adv. index, end of book)

Valley Iron Works, Williamsport, Pa.
 Vuican Iron Works, Wilkes-Barre, Pa.

Webster Mfg. Co., 1075 W 15th, Chicago, Ill.
WELLER MFG. CO., 124 E. North av, Chicago, Ill. (See adv. index, end of book)

Wickes Bros., Saginaw, Mich.
 Willamette Iron & Steel Works, Portland, Ore.
 Wolf Co., Chambersburg, Pa.

Woods, T. B., Sons, Chambersburg, Pa.

Power Transmitting Machinery (Electric)

(See also Generators, various kinds)

ALLIS-CHALMERS CO., Milwaukee, Wis. See adv. index & branch offices, end of book

GENERAL ELECTRIC CO., Schenectady, N. Y., & 44 Broad, New York. (See adv. below; branch offices, end of book)

Northern Electrical Mfg. Co., Madison, Wis.
 Quaker City Electric Co., 2036 Lippincott, Phila., Pa.

WESTINGHOUSE ELECTRIC & MFG. Co., Pittsburg, Pa. (See adv. index & branch offices, end of book)

Power Transmitting Machinery (Rope)

(See Rope Transmitting Machinery.)

Printing Presses & Machinery

Aluminum Press Co., 41 Park row, New York
 American Falcon Printing Press Co. (Presses Only), New York Life bldg, New York

Babcock Printing Press Mfg. Co., New London, Conn., & 38 Park row, New York

Boston Printing Press Co. (Prouty), Boston, Mass.

Challenge Machinery Co. (Gordon, Presses, etc.), Grand Haven, Mich.

Chandler & Price Co., Cleveland, O.
 Cottrell, C. B. & Sons Co., Westerly, R. I., & 41 Park Row, N. Y.

Damon, Geo. & Sons, 44 Beekman, New York
 Duplex Printing Press Co., Battle Creek, Mich.

Eardley & Winterbottom, 125 Worth st., New York city

Fuller, E. C., 28 Reade, New York
 Golding & Co., 540 Pearl, New York

Goss Printing Press Co., 732 S Paulina, Chicago, Ill.

GRAMMES, L. F. & SONS (Dealers in Machinery & Supplies), Allentown, Pa. (See adv. index, end of book)

Harris Automatic Press Co. (High Sped, Self-Feeding), Niles, O.
 Hoe, R. & Co., 504 Grand, N. Y.
 Hollingsworth, Wm., 227 N Holliday, Baltimore, Md.

GENERAL ELECTRIC COMPANY

POWER TRANSMISSION APPARATUS

Contracts taken for complete electrical equipments of long distance power transmission plants, for lighting, railways, mines, mills and factories.

GENERAL ELECTRIC COMPANY OF NEW YORK, U. S. A.

PRINCIPAL OFFICE: SCHENECTADY, N. Y.

NEW YORK OFFICE: 44 BROAD STREET

Sales Offices in all large cities in the United States

For Great Britain and Ireland:

THE BRITISH THOMSON-HOUSTON CO., Ltd.,

Rugby and 83 Cannon St., London, E.C.

Huber-Hodgman Printing Press Co., Taunton, Mass.
Kelsey Press Co., Meriden, Conn.
Kelton's, M. M. Son, 187 Lafayette, New York
Kidder Press Co., Dover, N. H., & 150 Nassau, N. Y.

King & Walker Co. ("Monona," "Leverless" & "New Wonder"), Madison, Wis.
Liberty Machine Co., 31 Burling st, New York
Machine Scales Co. ("New Era"), 11 E 24th, New York

Miehle Printing Press & Mfg. Co., 75 N Clinton, Chicago, Ill., & Nassau, N. Y.
Meisel Press & Mfg. Co., 944 Dorchester av, New York
National Machine Co. ("Gally" Universal Presses), Hartford, Conn.

New Champion Press Co., 76 Wooster, New York
New Idea Mfg. Co., Inc. (Toilet Paper Printing Presses), Columbus, O.
Nichols & Langworthy Machine Co., Hope Valley, R. I.

Peerless Printing Press Co., Palmyra, N. Y.
Pollard-Alling Mfg. Co., 35 E 20th, N. Y.
Post Color Press, 66 John, New York
Potter Printing Press Co., Plainfield, N. J.

Ray, Albert H., Ashland, Mass.
Scott, Walter & Co., Plainfield, N. J., & 949 B'way, New York
Thompson, John Press Co., 253 B'way, New York
United Printing Machinery Co., 12 Spruce, New York

Van Allens & Boughton, 59 Ann, N. Y.
Whitlock Printing Press Mfg. Co., Shelton, Conn.
Walker, N. G. & Co. ("Monona Leverless"), Madison, Wis.

Williams-Web Co., Shreveport, La.
Wrigley, Thos. & Co. (Print Press for Railroad Tickets), 300 Dearborn, Chicago, Ill.
Ziegler, Robt. & Sons, St. Louis, Mo.

Printing & Punching Machines

Ohl, Geo. A. & Co. (One Operation for Printing and Punching Holes in Leather, Fibre, etc.), 157 Oraton, Newark, N. J.

Profiling Machines

Becker, Brainard Milling Machine Co., Hyde Park, Mass.
FREVERT MACHINERY CO., 18 DEY, New York. (See adv. index, end of book)

Garvin Machine Co., 137 Varick, New York
Hartford Machine Screw Co., Hartford, Conn.
Niles-Bement-Pond Co., 111 B'way, New York city

Pratt & Whitney Co., Hartford, Conn.
TUOHY BROS. CO., 95 LIBERTY, New York. (See adv. index, end of book)

Prospecting Machinery

Keystone Driller Co., Beaver Falls, Pa.
Loomis Machine Co. (For Coal Mines), Tiffin, O.
Strothman Iron Co., Superior, Wis.

Pulley Balancing Machinery

DEFIANCE MACHINE WORKS, Defiance, O. (See adv. index, end of book)

Pulley Boring & Turning Machines

Jones, W. A. Foundry & Machine Co., 143 W Wash'n, Chicago, Ill.

Pulley Hub Drilling & Tapping Machines

Newton Machine Tool Works, 2347 Vine, Phila., Pa.

Pulley Molding Machines

(See also Molding Machines, Foundry)
American Foundry & Machine Co., Hanover, Pa.
Delano, E. A. Co. ("Delano"), 56 S. Clinton, Chicago, Ill.

Pridmore, Henry E., 918 S Rockwell, Chicago

Pulley Mortising Machines

Austin & Eddy ("Enterprise"), 117 Broad, Boston, Mass.

Clarkson Mfg. Co. ("Norris"), Baltimore, Md.
Sloan, Frank B. & Co. (The Norris), 10 S Charles, Baltimore, Md.

Smith & Phillips Mfg. Co., 269 Desplaines, Chicago, Ill.

Pulp Making Machinery (Canners')

SPRAGUE CANNING MACHINERY Co., 42 River, Chicago, Ill. (See adv. index, end of book)

Pulp Washing Machines

Relsinger, Hugo, 11 B'way, N. Y.

Pulverizing Machinery

(See also Mills, Grinding.)

Acton, Jno. (Bogardus Centrifugal Steel Roller Mills), 118 John, Brooklyn, N. Y.

Aero Pulverizer Co., 80 Wall, New York.
ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index and branch offices, end of book)

Bowman, Walker, 39 Cortlandt, New York City
BRADLEY PULVERIZER CO. ("Griffin Mill"), 92 State, Boston, Mass.

Burroughs, Chas. Co., 141 Commerce, Newark, N. J.

Campbell, P. F. (For Fertilizer & Whiting Works, etc.), 55 Laurel, Phila., Pa.

Carey, Saml., 17 State, N. Y.
Clark, J. C., Box 525, Atlanta, Ga.

Day, J. H. Co., Cincinnati, O.
Emerick, Geo. S. (Air Separators, Crushing, Drying, Separating Mach'y), Nazareth, Pa.

Excel Mfg. Co., Pottersville, N. J.
Fritsch, Arthur Foundry & Machine Co., 216 Gratlot, St. Louis, Mo.

Garrison, A. Foundry Co. (Ore & Clay), Pittsburgh, Pa.

Holmes & Blanchard Co. (Fertilizing), 39 Washington, N. Boston, Mass.

Kent Machine Wks., 246 Plymouth, Brooklyn, N. Y.
Kent Mill Co., 170 B'way, N. Y.

Lehigh Car Wheel & Axle Wks. ("Fuller-Lehigh" Pulverizer), Catasauqua, Pa.

McLauthlin, Geo. T. Co., 120 Fulton, Boston, Mass.

Mousette, O. J. ("Mouarch") Driggs av. & N. 10th, Brooklyn, N. Y.

Nebel, M. A., 72 Grand av, Brooklyn, N. Y.
Parke & Lacy Co., San Francisco, Cal.

Poole Engineering & Machine Co., Woodberry Station, Baltimore, Md.

Pratt, N. P., Laboratory, Atlanta, Ga.
Raymond Impact Pulverizer Co. (Clay), 143 Laffin, Chicago, Ill.

Ross, Chas. & Son Co., 148 Classon av, Brooklyn, N. Y.

Sackett, A. J. (Fertilizing), 5th av & 1st E, Baltimore, Md.

St. Louis Pulverizer Co., 416 N Main, St. Louis, Mo.

Schutz-O'Neill Co., Minneapolis, Minn.

Smith, F. L. & Co., 39 Cortlandt, New York.

Smith, Theodore & Sons Co., ft of Essex, Jersey City, N. J.

Stedman's Foundry & Machine Wks., Aurora, Ill.

STROUD, E. H. & CO., 36 La Salle, Chicago, Ill. See adv. index, end of book

Sturtevant Mill Co., Clayton c Park, Dor., Boston, Mass.

Valk & Murdock Iron Works, Charleston, S. C.

Van Winkle, E. Gin & Machine Works, Atlanta, Ga.

Walker & Elllott, Wilmington, Del.

West Pulverizing Machine Co., Jersey City, N. J.

Williams Patent Crusher & Pulverizer Co., St. Louis, Mo.

Willams Patent Crusher & Pulverizer Co., St. Louis, Mo.

Willams Patent Crusher & Pulverizer Co., St. Louis, Mo.

Willams Patent Crusher & Pulverizer Co., St. Louis, Mo.

Willams Patent Crusher & Pulverizer Co., St. Louis, Mo.

Willams Patent Crusher & Pulverizer Co., St. Louis, Mo.

Willams Patent Crusher & Pulverizer Co., St. Louis, Mo.

Willams Patent Crusher & Pulverizer Co., St. Louis, Mo.

Willams Patent Crusher & Pulverizer Co., St. Louis, Mo.

Willams Patent Crusher & Pulverizer Co., St. Louis, Mo.

Willams Patent Crusher & Pulverizer Co., St. Louis, Mo.

Willams Patent Crusher & Pulverizer Co., St. Louis, Mo.

Willams Patent Crusher & Pulverizer Co., St. Louis, Mo.

Willams Patent Crusher & Pulverizer Co., St. Louis, Mo.

Willams Patent Crusher & Pulverizer Co., St. Louis, Mo.

Willams Patent Crusher & Pulverizer Co., St. Louis, Mo.

The worst leak of all in a manufacturing plant is in the transmission of power from the engine to the machines due to faultily designed drives and cheap

POWER TRANSMISSION MACHINERY

poorly erected. Preventing or stopping this leak is our specialty. We make the plans; make the material and do the erecting.

THE A. & F. BROWN CO.,

Engineers, Founders, Machinists and Millwrights,

WORKS:
ELIZABETHPORT, N. J.

ENGINEERING OFFICE AND SALESROOMS:
25 DEY ST., NEW YORK CITY.

Hartig Standard Gas Engine Co., Newark, N. J.
Heisler Mfg. Co. (High Duty, Compensating,
Horizontal Crank & Fly Wheel), St. Mary,
O.

Herron Pump & Foundry Co., Chattanooga,
Tenn.

International Steam Pump Co., 114 Liberty,
Kilby Mfg. Co., Cleveland, O.
Luitwiler Pumping Engine Co., Los Angeles,
Cal.

McGowan, Jno. H. Co., 56 Central av., Cin-
cinnati, O.

Mletz & Weiss (Gas or Kerosene), 134 Mott,
New York

Morris County Machine & Iron Co., Dover,
N. J.

Morris, I. P. Co. (High Duty), Beach & Ball,
Phila., Pa.

National Steam Pump Co., Upper Sandusky, O.
Norberg Mfg. Co., Milwaukee, Wis.

OIL WELL SUPPLY CO., 215 Water,
Pittsburg, Pa. (See adv. index, end of book)

Platt Iron Works Co., Dayton, O. & 10
B'way, N. Y.

Prescott, Fredk. M., Steam Pump Co., West
Allis, Wis.

Providence Engineering Works (Pumping En-
gines), Providence, R. I.

Pulling, J. G. & Co., Columbus, O.

QUIMBY, WM. E. (Inc.), 44-60 E 23d,
New York. (See adv. index, end of book)

Reliance Engine Co. (Pumping Engines), San
Francisco, Cal.

Roberts, Geo. J. Co., Dayton, O.

Roots, P. H. & F. M. Co., Connersville, Ind.,
& 120 Liberty, New York

RUMSEY & CO. (Ltd.), Seneca Falls,
N. Y. (See adv. index & branch offices, in-
dex, end of book)

Smith, W. A., Elevator Co., 516 E. 141st, New
York

Southwark Foundry & Machine Co., S 5th &
Wash'n av., Phila., Pa.

Union Steam Pump Co., Battle Creek, Mich.

VILTER MFG. CO., 1046 Clinton,
Milwaukee, Wis. (See adv. index, end of book)

Wagener Steam Pump Co., Louisville, O.

Walker Mfg. Co., Fenton, Mich.

Warren Steam Pump Co., Warren, Mass.

Weinman Machine Works, Columbus, Ohio

Wells, F. C. (Est. of), 122 S Clinton, Chicago,
Ill.

Wetherill, Robt. & Co. (High Duty Pumping
Engines), Chester, Pa.

Wheeler, C. H. Mfg. Co., Lehigh & N 18th,
Phila., Pa., & 26 Cortlandt, New York

Wood, R. D. & Co. (High Duty), 400 Chestnut,
Phila., Pa.

Pumping Machines (Gasoline)

AMERICAN WELL WORKS, Aurora,
Ill. (See adv. index & branch offices, end
of book)

Deming Co., Salem, O.

Pumping Machines (Horse Power)

(See Pumping Outfits, Horse Power).

Pumpkin Machinery (Canners')

SPRAGUE CANNING MACHINERY
Co., 42 River, Chicago, Ill. (See adv. index,
end of book)

Pumpkin Peeling & Seeding Ma- chines

SPRAGUE CANNING MACHINERY
Co., 42 River, Chicago, Ill. (See adv. index,
end of book)

Punch & Die Grinding Machines

Diamond Machine Co., Providence, R. I.

Punching, Beveling & Trimming Machines

Long & Allstatter Co. (Combined for Boiler
Plates, etc., with Automatic Space Table,
Belt, Motor or Steam Driven), Hamilton, O.
Sutton, C. E. Co., Toledo, O.

Punching Machines (Boilermak- ers')

CLEVELAND PUNCH & SHEAR
Works Co., 1306 E 40th, Cleveland, O. (See
adv. index, end of book)

Henderer's, A. L. Sons (Cast Steel), Wilming-
ton, Del.

Long & Allstatter Co. (Heavy Steam, Motor
or Belt Driven), Hamilton, O.

Lovejoy Tool Works, 90 Ohio, Chicago, Ill.

New Doty Mfg. Co., Jamesville, Wis.

NIAGARA MACHINE & TOOL WKS.,
Buffalo, N. Y. (See adv. index, end of
book)

Niles-Bement-Pond Co., 111 B'way, New York

Oswego Tool Co. (Steel Screw), Oswego, N. Y.

Pels, Henry & Co., 66 Broad, New York

Queen City Punch & Shear Co., 208 Lawrence,
Cincinnati, O.

Sutton, C. E. Co., Toledo, O.

United Engineering & Foundry Co., Farmers'
B'k bldg, Pittsburg, Pa.

Wais-King Tool Co., Winton Place, O.

Wickes Bros., Saginaw, Mich.

Williams Bros. ("Eagle," Power), Ithaca,
N. Y.

Punching Machines (Disc)

Long & Allstatter Co. (Heavy, Belt, Motor,
or Steam Driven), Hamilton, O.

Punching Machines for Light Metal, Paper, Etc.

Erdle & Schenck, Rochester, N. Y.

Ferracute Machine Co., Bridgeton, N. J.

NIAGARA MACHINE & TOOL WKS.,
Buffalo, N. Y. (See adv. index, end of
book)

Tatum, Samuel C. Co., 414 W Water, Cincin-
nati, O.

Punching Machines (Gang)

(See Punching Machines, Multiple)

Punching Machines (Horizontal)

(See also Machinery, Punching & Shearing.)

Alliance Machine Co., Alliance, O.

CLEVELAND PUNCH & SHEAR
Works Co., 1306 E 40th (See adv. index,
end of book)

Lewis Foundry & Machine Co., Pittsburg, Pa.

Long & Allstatter Co. (Heavy, Belt, Motor &
Steam Driven), Hamilton, O.

Sellers, Wm. & Co. (Inc.), 1600 Hamilton,
Phila., Pa.

United Engineering & Foundry Co., Farmers'
B'k bldg, Pittsburg, Pa.

Whiting, Geo. Co., 156 W North av, Chicago,
Ill.

Williams, White & Co., Moline, Ill.

Wood, R. D. & Co. (Hydraulic), 400 Chestnut,
Phila., Pa.

Wood, R. D. & Co. (Hydraulic), 400 Chestnut,
Phila., Pa.

Wood, R. D. & Co. (Hydraulic), 400 Chestnut,
Phila., Pa.

Wood, R. D. & Co. (Hydraulic), 400 Chestnut,
Phila., Pa.

Wood, R. D. & Co. (Hydraulic), 400 Chestnut,
Phila., Pa.

Wood, R. D. & Co. (Hydraulic), 400 Chestnut,
Phila., Pa.

Wood, R. D. & Co. (Hydraulic), 400 Chestnut,
Phila., Pa.

Wood, R. D. & Co. (Hydraulic), 400 Chestnut,
Phila., Pa.

Wood, R. D. & Co. (Hydraulic), 400 Chestnut,
Phila., Pa.

Wood, R. D. & Co. (Hydraulic), 400 Chestnut,
Phila., Pa.

Wood, R. D. & Co. (Hydraulic), 400 Chestnut,
Phila., Pa.

Wood, R. D. & Co. (Hydraulic), 400 Chestnut,
Phila., Pa.

Wood, R. D. & Co. (Hydraulic), 400 Chestnut,
Phila., Pa.

Wood, R. D. & Co. (Hydraulic), 400 Chestnut,
Phila., Pa.

Wood, R. D. & Co. (Hydraulic), 400 Chestnut,
Phila., Pa.

Wood, R. D. & Co. (Hydraulic), 400 Chestnut,
Phila., Pa.

Long & Allstatter Co. (Belt, Steam or Motor
Driven), Hamilton, O.

New Doty Mfg. Co., Janesville, Wis.

Niles-Bement-Pond Co., 111 B'way, New York

PELS, HENRY & CO., 68 Broad, New
York. (See adv. index, end of book)

Sutton, C. E. Co., Toledo, O.

United Engineering & Foundry Co., Farmers'
B'k bldg, Pittsburg, Pa.

WATSON-STILLMAN CO., 26 Cort-
landt, New York. (See adv. index, end of
book)

Whiting, Geo. Co. (Beam Coping), 156 W North
av, Chicago, Ill.

Punching Machines (Multiple)

Alliance Machine Co., Alliance, O.

BLISS, E. W. CO., 19 Adams, Brook-
lyn, N. Y. (See adv. index, end of book)

Cincinnati Punch & Shear Co., 1416 Plum,
Cincinnati, O.

CLEVELAND PUNCH & SHEAR
Works Co., 1306 E 40th, Cleveland, O. (See
adv. index, end of book)

Hilles & Jones Co., Wilmington, Del.

Long & Allstatter Co. (Also Heavy Belt, Motor
or Steam Driven for Splice Bars, etc.),
Hamilton, O.

MANNING, MAXWELL & MOORE,
85, 87 & 89 Liberty, New York. (See adv.
index & branch offices, end of book)

New Doty Mfg. Co., Janesville, Wis.

NIAGARA MACHINE & TOOL WKS.,
Buffalo, N. Y. (See adv. index, end of
book)

Niles-Bement-Pond Co., 111 B'way, New York

Ohl, Geo. A. & Co., 157 Oraton, Newark, N. J.

PERKINS MACHINE CO., Warren,
Mass. (See adv. index, end of book)

Queen City Punch & Shear Co., 208 Lawrence,
Cincinnati, O.

Sellers, Wm. & Co. (Inc.), 1600 Hamilton,
Philadelphia, Pa.

Sutton, C. E. Co., Toledo, O.

United Engineering & Foundry Co. Farmers'
B'k bldg, Pittsburg, Pa.

Waterbury Farrel Foundry & Machine Co.,
Waterbury, Conn.

Whiting, Geo. Co., 156 W North av, Chicago,
Ill.

Williams, White & Co. (& Gate Shear), Moline,
Ill.

Wood, R. D. & Co. (Hydraulic), 400 Chestnut,
Phila., Pa.

Punching Machines (Screw)

Barber Mfg. Co., Ashtabula, O.

Gunnell Machine Co., Manitowoc, Wis.

Henderer's, A. L. Sons (Cast Steel), Wilming-
ton, Del.

Irving Mfg. & Tool Co. (J. F. McCoy Co.,
Prop.), 159 Chambers, New York

Lovejoy Tool Works (Cast & Forged Steel), 90
Ohio, Chicago, Ill.

New Doty Mfg. Co. (Steel), Janesville, Wis.

Oswego Tool Co. (Boilermakers' Steel), Os-
wego, N. Y.

PERKINS MACHINE CO., Warren,
Mass. (See adv. index, end of book)

Punching Machines (Stiles)

BLISS, E. W. CO., 19 Adams, Brook-
lyn, N. Y. (See adv. index, end of book)

Punching & Cutting Machines (Combined)

McDougall & Potter Co. (for Bar Iron, etc.),
606 W 55th, New York

Punching & Shearing Machinery

See also Punching Machines, Various Kinds.
Also Shears, Various Kinds.

Alliance Machine Co., Alliance, O.

Badger State Machine Co. (Hand & Belt
Power), Janesville, Wis.

Beaudry & Co. (Inc.), 141 Milk, Boston, Mass.

Bertsch & Co., Cambridge City, Ind.

Bicknell Hardware Co., Janesville, Wis.

Birdsboro Steel Foundry & Machine Co., Birds-
boro, Pa.

BLISS, E. W. CO. (Single & Double),
19 Adams, Brooklyn, N. Y. (See adv. index,
end of book)

Cincinnati Punch & Shear Co., 1416 Plum, Cin-
cinnati, O.

CLEVELAND PUNCH & SHEAR
Works Co., 1306 E 40th, Cleveland, O. (See
adv. index, end of book)

Evans', Jno. Sons (Heavy), 13th & Buttonwood, Phila., Pa.

Excelsior Tool Machine Co., East St. Louis, Ill.

Ferracute Machine Co., Bridgeton, N. J.

FREVERT MACHINERY CO., 18 Dey,

New York. (See adv. index, end of book)

HEARTLEY MACHINE, VARIETY

Iron & Tool Works (Punches & Dies), Toledo, O. (See adv. index, end of book)

Hilles & Jones Co., Wilmington, Del.

Johnson, Israel H., Jr., Co.

Kidder, J. F. Mfg. Co., Burlington, Vt.

King & Walker Co., Madison, Wis.

KINSEY, E. A. & CO., 331 W 4th,

Cincinnati O. (See adv. index, end of book)

Krips-Mason Machine Co. (Scrap Punching Machines), 1636 N Hutchinson, Phila., Pa.

Lewthwaite, T. H. (Power Hand & Foot), 413 E 31st, New York

Long & Allstatter Co. (Deep Throat, etc.), Hamilton, O.

Luther Mfg. Co., Olean, N. Y.

Mackintosh, Hemphill & Co., ft. 12th st, Pittsburgh, Pa.

MORGAN ENGINEERING CO. (Elec-

tric, Hydraulic, Steam & Power), Alliance, O. (See adv. index, end of book)

New Doty Mfg. Co. (Blacksmith & Carriage Builders), Janesville, Wis.

NIAGARA MACHINE & TOOL WKS.,

Buffalo, N. Y. (See adv. index, end of book)

Niles-Bement-Pond Co., 111 B'way, New York

Ohl, Geo. A. & Co. (Sheet Metal Workers), 157 Oraton, Newark, N. J.

Peck, Stow & Wilcox Co., Southington, Conn.; Cleveland, Ohio

Pels, Henry & Co., 66 Broad, New York

PERKINS MACHINE CO., Warren,

Mass. (See adv. index, end of book)

Philadelphia Roll & Machine Co., S 23d & Wash'n av, Phila., Pa.

Pittsburg Mfg. Co. ("Cosgrove" Punching), 28th & R. R., Pittsburg, Pa.

Queen City Punch & Shear Co. (Single and Double Throat, 4 to 48-inch), Cincinnati, O.

Robinson, J. M. Mfg. Co., Centrs. av & 2d, Cincinnati, O.

Rock River Machine Co., Janesville, Wis.

Royersford Foundry & Machine Co. (Combined), Royersford, Pa.

Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Philadelphia, Pa.

Sutton, C. E. Co., Toledo, O.

Toledo Machine & Tool Co., Toledo, O.

TUOHY BROS. CO., 95 Liberty, New

York. (See adv. index, end of book)

United Engineering & Foundry Co., Farmers' Bank bldg, Pittsburg, Pa.

Wais-King Tool Co. (Power), Winton pl., O.

Way-Walker Machine Co., (Power Punches), Lansing, Mich.

Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.

WATSON-STILLMAN CO. (Hydraulic,

etc.), 26 Cortlandt, New York. (See adv. index, end of book)

Whiting, Geo. Co., 156 W. North av, Chicago, Ill.

Wilkes Bros., Saginaw, Mich.

Williams, White & Co., Moline, Ill.

Wood, R. D. & Co. (Hydraulic), 400 Chestnut, Phila., Pa.

Wood, Wm. H., Media, Pa.

Punching & Shearing Machines

(Combined)

CLEVELAND PUNCH & SHEAR

Works Co., 1306 E 40th, Cleveland, O. (See adv. index, end of book)

NIAGARA MACHINE & TOOL WKS.,

Buffalo, N. Y. (See adv. index, end of book)

PERKINS MACHINE CO., Warren,

Mass. (See adv. index, end of book)

Royersford Foundry & Machine Co. (Power), Royersford, Pa.

Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Phila., Pa.

Sutton, C. E. Co., Toledo, O.

WATSON-STILLMAN CO., 26 Cort-

landt, New York. (See adv. index, end of book)

Punching & Shearing Machines

(Manhole)

CLEVELAND PUNCH & SHEAR

Works Co., 1306 E 40th, Cleveland, O. (See adv. index, end of book)

MORGAN ENGINEERING CO. (Hy-

draulic), Alliance, O. (See adv. index, end of book)

Wood, R. D. & Co. (Hydraulic), 400 Chestnut, Phila., Pa.

Punching & Shearing Machines (Double End)

MORGAN ENGINEERING CO. (Belt
Driven, etc.), Alliance, O. (See adv. index, end of book)

*Punching & Shearing Machines (Plate Work)

PERKINS MACHINE CO., Warren,
Mass. (See adv. index, end of book)

Quarrying Machinery & Supplies

(See the specific article required. If not classified write us for information desired.)

Quartering Machines

Niles-Bement-Pond Co., 111 B'way, New York
Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Phila., Pa.

Rack Cutting Machines

Adams Co., Dubuque, Iowa

Fellows Gear Shaper Co., Springfield, Vt.

Gould & Eberhardt (Automatic & Semi-Auto-

matic), Newark, N. J.

Le Blond, R. K. Machine Tool Co., Cincinnati, O.

Slate, Dwight, Machine Co., Hartford, Conn.

Walcott & Wood Machine Tool Co., 60 & 96 inch, half & full automatic), Jackson, Mich.

Rail Bending & Straightening Machines

(See also Rail Benders.)

Kalamazoo Railway Supply Co., Kalamazoo, Mich.

Niles-Bement-Pond Co., 111 B'way, New York

Quincy-Manchester Sargent Co. (Hydraulic), Old Colony bldg, Chicago, Ill., & 114 Liberty, New York

Solid Steel Tool & Forge Co. ("S. T. S."), Brackenridge, Pa.

Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Phila., Pa.

WATSON-STILLMAN CO. (Hydraulic,

ic), 26 Cortlandt, New York. (See adv. index, end of book)

Rail Cutting Machines

Niles-Bement-Pond Co., 111 B'way, New York

Pels, Henry & Co., 66 Broad, New York

Rail Ending Machines

Newton Machine Tool Works (Inc.), 2347 Vine, Philadelphia, Pa.

Rail Punching Machines

Pels, Henry & Co., 66 Broad, New York

Rail Sawing Machines

Higley Machine Co., 8 Dey, N. Y.

Newton Machine Tool Works, 2347 Vine, Philadelphia, Pa.

Quincy-Manchester-Sargent Co., Old Colony bldg, Chicago, Ill., & 114 Liberty, New York

Railroad Cross Tie Machines

Salem Iron Works (Inc.), Salem, N. C.

Railway Track Laying Machines

Holman, D. F. Railway Tracklayer Co., 9 Jackson boul, Chicago, Ill.

Hurley Track Laying Machine Co., Syracuse, N. Y.

Rake Handle Machinery

DEFIANCE MACHINE WORKS, De-
fiance, O. (See adv. index, end of book)

Rattan Weaving Machinery

Leffler, Chas. & Co., 63 Clymer, Brooklyn, N. Y.

Reaming Machines

Niles-Bement-Pond Co., 111 B'way, New York

Smith, E. G. Co. (Power), Columbia, Pa.

Stow Mfg. Co., Binghamton, N. Y.

Reclamation Machinery

Haslehurst, W. W., 2122 Folsom, San Francisco, Cal.

Krogh Mfg. Co., San Francisco, Cal.

Reducing Machines

(See Swaging Machines)

Refrigerating Machinery

(See Ice & Refrigerating Machines)

Registering Machines

Root, C. J., Bristol, Conn.

Rendering Machinery

Brecht, B. S. Co., 12th & Cass av, St. Louis, Mo.

Platt Iron Works Co. ("Potter" Process), Dayton, O., & 100 B'way N. Y.

Re-Sawing Machines

(See Band Sawing Machines)

Re-Sawing Machines (Horizontal)

Chase Turbine Mfg. Co., Orange, Mass.

Re-Seating Machines

Lagonda Mfg. Co. (For Cleaning Faces, Nuts & Caps of Boiler Tubes), Springfield, O.

Liberty Mfg. Co. (For Faces, Nuts & Caps of Water Tube Boilers), Pittsburg, Pa.

Rice Cleaning Machinery

(See Coffee & Rice Cleaning Machinery.)

Rice Mill Machinery

Barnard & Leas Mfg. Co. (Separators, Graders, Clippers, etc.), Moline, Ill.

Nordyke & Marmon Co., Indianapolis, Ind.

SCHULE, F. H. CO., 27 Thames, New

York. (See adv. index, end of book)

Rice & Coffee Hulling Machinery

Barnard & Leas Mfg. Co. (Rice Hullers for Mills & Plantations), Moline, Ill.

Blymyer Iron Works Co., Cincinnati, O.

Engelburg Huller Co., Syracuse, N. Y.

Rim Machines

(See Hub, Spoke & Rim Machinery.)

Rim Bending Machines

DEFIANCE MACHINE WORKS, De-
fiance, O. (See adv. index, end of book)

Rim Polishing Machines

Ohl, Geo. A. & Co. (Wheel Rims, etc.), 157 Oraton, Newark, N. J.

Ring Forming Machines (Auto-

matic)

American Can Co. (Rudolph & Krummel), 135 Adams, Chicago, Ill.

SHUSTER, F. B. CO., New Haven,

Conn. (See adv. index, end of book)

Ring & Loop Machinery

Reed Mfg. Co., Springfield, O.

Special Machinery Co. (Automatic), Bridgeport, Conn.

Rip Saw Machines

American Woodworking Machinery Co., Rochester, N. Y.; West St. bldg., N. Y.
Atlantic Works (Inc.), 2821 Oakford St., Phila., Pa.
Barnes, W. F. & Jno. (Hand Power), Rockford, Ill.
Bentel & Margedant Co., Hamilton, O.
Berlin Machine Works, Beloit, Wis.
Cordesman, Rectin Co., 25 Butler, Cincinnati, O.
Cordesman, Meyer & Co., 55 Central av., Cincinnati, O.

DEFIANCE MACHINE WORKS, Defiance, O. (See adv. index, end of book)

Fay, J. A. & Egan Co., c Front & John, Cincinnati, O.
Fischer, E. Machine Works (Self Feed), 710 Carroll av., Chicago, Ill.
Frank Machinery Co., 214 Terrace, Buffalo, N. Y.
Garland, M. Co., Bay City, Mich.
GRAMMES, L. F. & SONS (Combination Rip & Cross Cut), Allentown, Pa. (See adv. index, end of book)
Greenlec Bros. & Co. (Self Feed), Railway Exchange bldg., Chicago, Ill.
Holmes, E. & B. Machinery Co., Buffalo, N. Y.
Marston, J. M. & Co. (Foot Power), 228 Rugles, Boston, Mass.
Mershon, Wm. B. & Co., Saginaw, Mich.
Root, B. M. Co., York, Pa.
Power, L. & Co. (Self-Feed), 20 S 23d, Phila., Pa.
Sinker-Davis Co. ("Hoosier" Self-Feed), 230 S Missouri, Indianapolis, Ind.
Yerkes & Finan Woodworking Machine Co. (Iron Frame), St. Louis, Mo.

Rivet Heading Machines

Acme Machinery Co., Cleveland, O.
Ajax Mfg. Co., Cleveland, O.
American Machinery Co. ("Greenwood"), Willoughby, O.
COOK, ASA S. CO. (New Patent Feed), 80 Huyshope av., Hartford, Conn. (See adv. index, end of book)
McMyler Mfg. Co., Cleveland, O.
National Machinery Co., Tiffin, O.
NIAGARA MACHINE & TOOL WKS., Buffalo, N. Y. (See adv. index, end of book)
Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.

Rivet Machinery

Acme Machinery Co., Cleveland, O.
Ajax Mfg. Co., Cleveland, O.
American Machinery Co. ("Greenwood" Solid & Open Die Rivet Machines), Willoughby, O.
Blake & Johnson, Waterbury Conn.
Coulter & McKenzie Machine Co., Bridgeport, Conn.
Manville, E. J. Machine Co., Waterbury, Conn.
MORGAN ENGINEERING CO., Alliance, O. (See adv. index, end of book)
National Machinery Co., Tiffin, O.
Pittsburg Mfg. Co., Pittsburg, Pa.
Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.

Rivet Spinning Machines

Grant Mfg. & Machine Co., Bridgeport, Conn.

Rivet & Hoop Applying Machines

Tubular Rivet & Stud Co., Wollaston, Mass.

Rivet & Staple Setting Machines

Standard Rivet Co., 41 Lincoln, Boston, Mass.

Riveting Machines

(See also Pneumatic Riveters)

Abree, Chester B. Iron Works (Pneumatic), Allegheny Pa.
Chambersburg Engineering Co., Chambersburg, Pa.
Cross & Speirs Machine Co. (Double Blow), Waterbury, Conn.
Draher, Jno., Waterbury, Conn.
FEVERT MACHINERY CO., 18 Dey, New York. (See adv. index, end of book)
HEARTLEY MACHINE, VARIETY Iron & Tool Works (for Metal Wheels), Toledo, O. (See adv. index, end of book)
Hilles & Jones Co. (Power), Wilmington, Del.
Hubbell, Harvey, Bridgeport, Conn.
Long & Alstatter Co., Hamilton, O.

MORGAN ENGINEERING CO., Alliance, O. (See adv. index, end of book)

NIAGARA MACHINE & TOOL Works (Sheet Metal), Buffalo, N. Y. (See adv. index, end of book)

Niles-Bement-Pond Co., 111 B'way, New York
Pawtucket Mfg. Co., Pawtucket, R. I.

PERKINS MACHINE CO. (Power), Warren, Mass. (See adv. index, end of book)

Quincy-Manchester-Sargent Co., Old Colony bldg., Chicago, Ill., & 114 Liberty, New York

Root Bros. Co., Plymouth, O.
Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Phila., Pa.

SHUSTER, F. B. CO. (Elastic Rotary Blow, etc.), New Haven, Conn. (See adv. index, end of book)

Standish Machine & Supply Co. (for Patching Cotton Tie Bands, etc.), Columbus, O.

Toledo Machine & Tool Co., Toledo, O.

TUOHY BROS. CO., 95 Liberty, New York. (See adv. index, end of book)

Whiting Geo. Co. (Belt Power), 156 W North av., Chicago, Ill.

Wickes Bros., Saginaw, Mich.
Williams, White & Co., Moline, Ill.

Wood, R. D. & Co., 400 Chestnut, Phila., Pa.

Riveting Machines (Fire Door)

MORGAN ENGINEERING CO., Alliance, O. (See adv. index, end of book)

Riveting Machines (Hoop)

Smith, F. H. Mfg. Co. (Hand Power), 48 St. Johns, Chicago, Ill.

Stralt, H. N., Kansas City, Mo.

Riveting Machines (Hydraulic)

Alliance Machine Co., Alliance, O.
Chambersburg Engineering Co., Chambersburg, Pa.

Fischer Foundry & Machine Co., Pittsburg, Pa.

MORGAN ENGINEERING CO. (Solid Stake, Loose Head, also Two Piece Stake, etc.), Alliance, O. (See adv. index, end of book)

Niles-Bement-Pond Co., 111 B'way, New York
Philadelphia Roll & Machine Co., S 23d & Washington av., Phila., Pa.

Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Phila., Pa.

WATSON-STILLMAN CO., 26 Cortlandt, New York. (See adv. index, end of book)

Wood, R. D. & Co. (Stationary & Portable), 400 Chestnut, Phila., Pa.

Wood, W. H., Media, Pa.

Riveting Machines (Hydraulic Lifting)

Wood, R. D. & Co., 400 Chestnut, Phila., Pa.

*Riveting Machines (Hydraulic; Portable)

MORGAN ENGINEERING CO., Alliance, O. (See adv. index, end of book)

Riveting Machines (Pneumatic)

(See Pneumatic Riveters.)

Riveting Machines (Portable)

(See also Pneumatic Riveters)

BETHLEHEM FOUNDRY & MACHINE Co. (Alligator, etc.), Front, South Bethlehem, Pa., & 149 B'way, New York. (See adv. index, end of book)

Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Phila., Pa.

Wickes Bros., Saginaw, Mich.

Wood, R. D. & Co. (Hydraulic), 400 Chestnut, Phila., Pa.

Wood, Wm. H., Media, Pa.

Riveting Machines (Spoke)

Williams, White & Co., Moline, Ill.

Riveting Machines (Steam)

BETHLEHEM FOUNDRY & MACHINE Co. (Vertical Gap or Portable Alligator), Front, South Bethlehem, Pa., & 149 B'way, New York. (See adv. index, end of book)

Hillis & Jones Co., Wilmington, Del.

MORGAN ENGINEERING CO., Alliance, O. (See adv. index, end of book)

Niles-Bement-Pond Co., 111 B'way, New York

Pusey & Jones Co., Wilmington, Del.
Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Phila., Pa.

Riveting Machines (Wheel)

Long & Allstatter (Belt, Motor & Steam Driven), Hamilton, O.

Road Making Machinery

See Asphalt Machinery.

Concrete & Mortar Mixers.

Ditching Machines.

Plows, Contractors'.

Road Machines & Graders.

Road Scrapers, Drag & Wheel.

Rock & Ore Crushers.

Rollers, Steam Road.

For all other Road Making Specialties see Index of Contents.

Rock Drill Sharpening Machines

INGERSOLL-RAND CO., 11 B'way, New York. (See adv. index & branch offices, end of book)

Rod, Pin & Dowel Machines

American Wood Working Machine Co., Rochester, N. Y., & West Street bldg., New York

Atlantic Works (Inc.), 2821 Oakford, Phila., Pa.

Baker Bros., Toledo, O.

Bentel & Margedant Co. (Power or Hand Feed), Hamilton, O.

Cordesman, Rectin Co., 27 Butler, Cincinnati, O.

Cowdrey, C. H. Machine Works, Fitchburg, Mass.

Fay, J. A. & Egan Co., cor Front & John, Cincinnati, O.

Goodspeed Machine Co., Winchendon, Mass.

Merritt Mfg. Co., Lockport, N. Y.

Moshannon Mfg. Co., Phillipsburg, Pa.

Smith, H. B. Machine Co., Smithville, N. J., & 121 Liberty, New York

Trevor Mfg. Co., Lockport, N. Y.

Rod or Bar Drawing Machines

Brightman Mfg. Co., Shelby, O.
Waterbury Machine Co. (Rod Drawing), Waterbury, Conn.

Rod & Tube Pointing Machines

Excelsior Needle Co., Torrington, Conn.
Waterbury-Farrel Foundry & Machine Co., Waterbury, Conn.

WRIGHT WIRE CO. (Rod Pointing), Worcester, Mass.

Roll Covering Machines

Turner, J. S. Mfg. Co., 398 Middlesex, Lowell, Mass.

Roll Grooving Machines

Pratt & Whitney Co., Hartford, Conn.

Roll Straightening & Finishing Machines

Brightman Mfg. Co., Shelby, O.

Rolling Mill Machinery

(See also Tin Plate Mill Machinery, etc.)

Aetna Foundry & Machine Co., Warren, O.

Allentown Rolling Mills, Allentown, Pa.

Alliance Machine Co., Alliance, O.

American Foundry & Construction Co., 4716 2d av., Pittsburg, Pa.

American Machine & Mfg. Co., Cleveland, O.

American Sheet & Tin Plate Co., Roll & Machine Works, Canton, O.

American Roll & Foundry Co., Canton, O.

Atlas Car & Mfg. Co., Cleveland, O.
 Bertsch & Co., Cambridge City, Ind.
 Bethlehem Steel Co., South Bethlehem, Pa., &
 100 B'way, New York
 Birdsboro Steel Foundry & Machine Co., Birds-
 boro, Pa.

Birmingham Iron Foundry, Derby, Conn.
 Blake & Johnson, Waterbury, Conn.
 Braddock Machine & Mfg. Co. (Bar, Sheet,
 Plate, Rod, Wire, Tin Plate & Mill Con-
 struction, Braddock, Pa.

BRODESSER ELEVATOR MFG. CO.,
 Milwaukee, Wis. (See adv. index, end of
 book)

Centre Foundry Co., Wheeling, W. Va.
 Cincinnati Punch & Shear Co., 1416 Plum, Cin-
 cinnati, O.

Cleveland Machine & Mfg. Co., 4944 Hamilton,
 Cleveland, O.

Farrel Foundry & Machine Co. (For Brass, Cop-
 per, Zinc, Britannia, etc.), Ansonia, Conn.

**FAWCUS MACHINE CO. (Gears &
 Special Machinery),** 2820 Smallman, Pitts-
 burg, Pa. (See adv. index, end of book)

Fischer Foundry & Machine Co., Pittsburgh, Pa.
 Garrison, A. Foundry Co., 9th & Bingham,
 Pittsburgh, Pa.

Heppenstall Forge & Knife Co., Pittsburgh, Pa.
 Hilles & Jones Co., Wilmington, Del.

Hogg, Geo. A. Iron & Steel Foundry Co., 24th
 & A. V. R'y, Pittsburgh, Pa.

Hyde Park Foundry & Machine Co., Hyde Park,
 Pa., & Frick bldg, Pittsburgh, Pa.

Kilby Mfg. Co., Cleveland, O.
 Lewis Foundry & Machine Co., 1001 Bingham,
 Pittsburgh, Pa.

Lingle, J. H., Bellefonte, Pa.
 Mackintosh, Hemphill & Co., ft 12th, Pitts-
 burg, Pa.

Mahoning Foundry & Machine Co., Youngs-
 town, O.

Mesta Machine Co., Pittsburgh, Pa.
 Morgan Construction Co., Worcester, Mass.

MORGAN ENGINEERING CO., Alli-
 ance, O. (See adv. index, end of book)

Newbold, R. S. & Son Co., Norristown, Pa.
 Niles-Bement-Pond Co., 111 B'way, New York
 City

Ohl, G. O. A. & Co., 157 Oraton, Newark, N. J.
 Penna. Engineering Works, New Castle, Pa.

Phila. Roll & Machine Co., S 23d & Wash'n av,
 Phila., Pa.

Phillips & McLaren, 24th & Smallman, Pitts-
 burg, Pa.

Pittsburg Industrial Iron Works, Pittsburgh, Pa.
 Poole Engineering & Machine Co., Baltimore,
 Md.

Reading Iron Co., Reading, Pa.
 Rosedale Foundry & Machine Co., Allegheny,
 Pa.

Scaife Foundry & Machine Co., 28th & Small-
 man, Pittsburgh, Pa.

Seaman Sleeth Co. (Sand & Chilled Roll-
 Only), 41st & A. V. R'y, Pittsburgh, Pa.

Southark Foundry & Machine Co., 5th &
 Wash'n av, Phila., Pa.

Standard Engineering Co. (To Order), Eliwood
 City, Pa.

Standard Machinery Co., Providence, R. I.
 Stevenson Co., Wellsville, O.

Thompson, Hugh L., 57 Main, Waterbury, Conn.
 Tod, William Co. (Engines, etc.), Youngstown,
 Ohio

Trethewey, Samuel & Co. (Ltd.), 47th nr But-
 ler, Pittsburgh, Pa.

Tyrone Foundry & Machine Co., Tyrone, Pa.
 United Engineering & Foundry Co., Farmers'
 Bank bldg, Pittsburgh, Pa.

Vulcan Foundry & Machine Co., New Castle, Pa.
 Waterbury Farrel Foundry & Machine Co.,
 Waterbury, Conn.

Weimer Machine Works Co., Lebanon, Pa.
WELLMAN - SEAVER - MORGAN CO.,
 Cleveland, O., & 42 B'way, N. Y. (See
 adv. index, end of book)

West Penn Foundry & Machine Co., Avonmore,
 Pa.

Wheeling Mold & Foundry Co., Wheeling, W.
 Wolf Co. (Inc.), Chambersburg, Pa. Va.

WRIGHT WIRE CO., Worcester,
 Mass.

Youngstown Foundry & Machine Co., Youngs-
 town, O.

Roofing Machines

NIAGARA MACHINE & TOOL WKS.,
 Buffalo, N. Y. (See adv. index, end of
 book)

Slate, Dwight, Machine Co., Hartford, Conn.
 White, Robert Engineering Wks., ft Columbia,
 Brooklyn, N. Y.

Roofing Tile Machinery

American Clay Machinery Co., Bucyrus, O., &
 Wilfoughby, O.

Mueller Bros., St. Louis, Mo.
 Raymond, C. W. Co., Dayton, O.

United Cement Machinery Mfg. Co. (For Cement
 Tile), Columbus, O.

Rope Transmitting Machinery

(See also Power Transmitting Machinery.)

Barnard & Leas Mfg. Co., Moline, Ill.
BROWN, A. & F. CO., 25 Dey, New
 York. Works: Elizabethport, N. J. (See
 adv. index, end of book)

Caldwell, H. W. & Son, 17th & Western av,
 Chicago, Ill.

Cresson, Geo. V. Co., Allegheny av W of 17th,
 Phila., Pa.

DODGE MFG. CO., Mishawaka, Ind.
 (See adv. below; branch offices, end of book)

Howard Iron Works, Buffalo, N. Y.
JEFFREY MFG. CO., Columbus, O.
 (See adv. index & branch offices, end of
 book)

Link Belt Co. (Manila Rope, etc.), W 39th &
 Stewart av, Chicago, Ill. & 299 B'way,
 New York

MINNEAPOLIS STEEL & MACHINE-
 ry Co., Minneapolis, Minn. (See adv in-
 dex & branch offices, end of book)

Moore & Lorenz Co., S16-S22 Fulton, Chicago,
 Ill.

Nordyke & Marmon Co., Indianapolis, Ind.
 Tamaqua Mfg. Co., Tamaqua, Pa.

Webster Mfg. Co., 1075 W 15th, Chicago, Ill.
 & 38 Dey, New York

WELLER MFG. CO., 124 E North av,
 Chicago, Ill. (See adv. index, end of book)

Wood's, T. B. Sons, Chambersburg, Pa.

Rope & Twine Machinery

(See Cordage Machinery.)

Rosette & Corner Block Ma- chines

American Steam Pump Co., Battle Creek, Mich.
 Pringle & Brodie Machinery Co., 277 S Canal,
 Chicago, Ill.

Rotary Printing & Rewinding Machines

Kidder Press Co., Dover, N. H., & 150 Nassau,
 N. Y.

Round Cornering Machines

Southard Bros. (The Sterling), Portland, Me.

Routing Machines

Bentel & Margedant Co., Hamilton, O.
 Cordesman, Rehtin Co., 25 Butler, Cincinnati,
 Ohio

Royle, Jno. & Sons (Inc.), Paterson, N. J.
 Smith, H. B. Machine Co., Smithville, N. J.,
 & 121 Liberty, New York

Routing & Mortising Machines (Gang)

Bentel & Margedant Co., Hamilton, O.

Rubber Band Cutting Machines

Adamson, A., Akron, O.
AITON MACHINE CO., 126 Liberty,
 New York. (See adv. index, end of book)

Birmingham Iron Foundry, Derby, Conn.

Rubber Cloth Machinery

CURRIER, CYRUS & SONS, Newark,
 N. J. (See adv. index, end of book)

Rubber Grinding & Mixing Ma- chines

AITON MACHINE CO., 126 Liberty,
 New York. (See adv. index, end of book)

Birmingham Iron Foundry, Derby, Conn.
 Farrel Foundry & Machine Co., Ansonia, Conn.

STROUD, E. H. & CO. (Grinders), 36
 La Salle, Chicago, Ill. (See adv. index, end
 of book)

Thropp, Wm. R., Trenton, N. J.

Rubber Mill Machinery

Adamson, Alex., Akron, O.
AITON MACHINE CO. (Mills, Dryers,
 Vulcanizers & Presses), 126 Liberty, New
 York. (See adv. index, end of book)

American Tool & Machine Co. (Spreaders &
 Mixers), 109 Beach, Boston, Mass.

Birmingham Iron Foundry, Derby, Conn.
 Clerk, Edred W. (For Making Carriage Tires,
 Wi e Covering), Hartford, Conn.

Coleman, W. C. Co. (New & Second Hand),
 Rochelle Park, N. J.

ELMES, CHAS. F. ENGINEERING
 Works, c Fulton & N Sagamon, Chicago,
 Ill. (See adv. index, end of book)

Farrel Foundry & Machine Co., Ansonia, Conn.
 Mackenzie's, Duncan Sons Co., Hamilton av,
 Trenton, N. J.

Philadelphia Roll & Machine Co., S 23d &
 Wash'n av, Phila., Pa.

Royle, John & Sons, Paterson, N. J.
 Thropp, John E. Sons Co., ft of Lewis, Tren-
 thropp, Wm. R., Trenton, N. J. ton, N. J.

Turner, Vaughn & Taylor Co., Cuyahoga Falls,
 O.

Williams Foundry & Machine Co., Akron, O.

Rubber Strip Cutting Machines

AITON MACHINE CO., 126 Liberty,
 New York. (See adv. index, end of book)

New England Butt Co., Providence, R. I.

Rubber Tire Applying Machinery

Williams Foundry & Machine Co., Akron, O.

Rubber Tire Machines

Clark, Edred W. (Tubing, Tire & Electric
 etc.), Hartford, Conn.

Rubber Tube Making Machines

Adamson, A., Akron, O.
AITON MACHINE CO., 126 Liberty,
 New York. (See adv. index, end of book)

Bay State Machine Co., Erie, Pa.
 Clark, Edred W., Hartford, Conn.

Royle, Jno. & Sons, Paterson, N. J.
 Textile Machine Works, Reading, Pa.

Rubber Washing Machines

AITON MACHINE CO., 126 Liberty,
 New York. (See adv. index, end of book)

Birmingham Iron Foundry, Derby, Conn.
 Farrel Foundry & Machine Co., Ansonia, Conn.

Thropp, Wm. R., Trenton, N. J.
 Turner, Vaughn & Taylor Co., Cuyahoga Falls,
 O.

EFFICIENCY IN POSITIVE DELIVERY OF POWER
ECONOMY IN FIRST COST
 OF MAINTENANCE

SECURED BY AMERICAN SYSTEM ROPE TRANSMISSIONS AS DESIGNED AND INSTALLED BY

DODGE MANUFACTURING CO.,

MISHAWAKA, IND.

Ruling Machines

Blackhall Mfg. Co., Buffalo, N. Y.
Hickox, W. C. Mfg. Co., Harrisburg, Pa.
Hope, John & Sons' Engraving & Mfg. Co., Providence, R. I.
McAdams, John & Sons, 978 Kent av., Brooklyn, N. Y.
Piper, E. G., Springfield, Ohio.
Wesel, F. Mfg. Co., 70 Cranberry, Brooklyn, N. Y.

Saddle Seat Machines

Gardner Machine Works (E. N. & W. H. Hobby, Prop's), Gardner, Mass.

Safety Pin Machinery

Baird Machine Co., Oakville, Conn.
Blake & Johnson, Waterbury, Conn.
Manville Bros. Co., Waterbury, Conn.
Manville, E. J. Machine Co., Waterbury, Conn.
Waterbury Machine Co., Waterbury, Conn.

Salt Making Machinery

Bartlett, A. F. & Co., Saginaw, Mich.
SCHULE, F. H. CO., 27 Thames, New York. (See adv. index, end of book)

Salt Well Machinery

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)

Bartlett, A. F. & Co., Saginaw, Mich.
Garland, M. Co., Bay City, Mich.
Great Western Mfg. Co. (for Salt Mills), Leavenworth, Kan.
Jackson & Church Co., Saginaw, Mich.
Manistee Iron Works Co., Manistee, Mich.
index, end of book)

WARSAW ELEVATOR CO., Warsaw, N. Y. (See adv. index and branch offices, end of book)

Sand Blast Machines

American Diamond Blast Co., 114 Liberty, New Astel, H. J. & Co., Providence, R. I.
Curtis & Co. Mfg. Co., St. Louis, Mo.
Drucklieb, C. (Injector Sand Blast Apparatus), 132 Reade, New York
INGERSOLL - RAND CO., 11 B'way, New York. (See adv. index & branch offices, end of book)

Leiman Bros., 139 Centre, New York
McLeod, Walter Co., Cincinnati, O.
Paxson, J. W. Co. ("Paxson-Warren" for Cleaning Steel & Castings), 1021 N Delaware av., Phila., Pa.

STANDARD PNEUMATIC SPRAY CO., 500 5th av, New York. (See adv. index, end of book)

Tilghman-Brooksbank Sand Blast Co. ("Tilghman" "Matthewson"), 1126 S 11th, Phila., Pa.

Sand Brick Machines

American Sandstone Brick Machy Co. (For Sand, Lime, Brick), Saginaw, Mich.
Reading Brick Machy. Co., Reading, Pa.
Western Composite Brick Co., Kansas City, Mo.

Sand Conveying Machinery for Continuous Moulding

STANDARD SAND & MACHINE CO., 5151 St. Clair, Cleveland, O. (See adv. index, end of book)

Sand Drum Machines

Bentel & Margedant Co., Hamilton, O.

*Sand-Lime Brick Machinery

AMERICAN CLAY MACHINERY CO., Bucyrus, O., & Willoughby, O.
International Sand-Lime Brick Machinery Co., 136 Liberty, N. Y. City
Western Composite Brick Co., Kansas City, Mo.

Sand Mixing Machines

Barbour-Stockwell Co., Cambridgeport, Mass.
CANTON FOUNDRY & MACHINE CO., Canton, O. (See adv. index, end of book)
Gould & Eberhardt, Newark, N. J.
JEFFREY MFG. CO., Columbus, O. (See adv. index & branch offices, end of book)

Link Belt Co., W 39th & Stewart av, Chicago, Ill., & 299 B'way, New York
Obermayer, S. Co., 647 Evans, Cincinnati, O.
OSBORN MFG. CO., 5401 Hamilton av, N. E., Cleveland, O. (See adv. index, end of book)

Paxson, J. W. Co., 1021 N Delaware av, Phila., Pa.
Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Phila., Pa.
Sly, W. W. Mfg. Co. ("Sly" Incorporator), Cleveland, O.

SMITH, J. D. FOUNDRY SUPPLY CO., 1581 Columbus rd, N. W., Cleveland, O. (See adv. index, end of book)

STANDARD SAND & MACHINE CO. (Mixer & Screen Combined), 5151 St. Clair, Cleveland, O. (See adv. index, end of book)

Sand Molding Machines

(See Molding Machines, Foundry.)

Sand Paper Making Machinery

Waldron, Jno. Co., New Brunswick, N. J.

Sand Papering Machines

American Wood Working Machine Co., Rochester, N. Y., & West Street bldg, New York

Atlantic Works (Inc.), 2821 Oakford, Phila., Pa.
Bentel & Margedant Co., Hamilton, O.
Berlin Machine Works, Beloit, Wis.

Cordesman, Rechin Co., 25 Butler, Cincinnati, O. (See adv. index, end of book)

Fay, J. A. & Egan Co., Cincinnati, O.
GRAMMES, L. F. & SONS, Allentown, Pa. (See adv. index, end of book)

Hayes Machine Co. (Inc.), Kingston, N. Y.
Moore Carving Machine Co. ("Victor Imperial"), 1921 Portland av, Minneapolis, Minn.

Power, L. & Co., 20 S 23d, Phila., Pa.
Smith, H. B. Machine Co., Smithville, N. J., & 121 Liberty, New York.

White, Jno A. & Co., Dover, N. H.
Winship Mfg. Co., Racine, Wis.

Sand Sifting Machines

Battle Creek Interior Finish Co. ("Battle Creek"), Battle Creek, Mich.

Horton Mfg. Co., Painesville, O.
Obermayer, S., Co., 647 Evans, Cincinnati, O.

Sander & Boring Machines

Bentel & Margedant Co. (Flexible Arm), Hamilton, O.

Sanding & Polishing Machinery

Bentel & Margedant, Hamilton, O.
Fischer E. Machine Works (Double Disc Sander for Box Factories, etc.), 710 Carroll av, Chicago, Ill.

West St. Louis Machine & Tool Co., 606 Manchester av, St. Louis, Mo.

Sash Chain Machines

Nilson, A. H. Machine Co. (Automatic), Bridgeport, Conn.

Sash, Door & Blind Machinery

American Wood Working Machinery Co., Rochester, N. Y., & West Street bldg, New York
Bentel & Margedant Co., Hamilton, O.

Berlin Machine Works, Beloit, Wis.
Fay, J. A. & Egan Co., Cincinnati, O.

Frank Machinery Co., 214 Terrace, Buffalo, N. Y.

Greenlee Bros. & Co., Railway Exchange bldg, Chicago, Ill. Factory, Rockford, Ill.

Hayes, E. B. Machine Co., Oshkosh, Wis.
Hendy, Joshua Machine Works, San Francisco, Cal.

Power, L. & Co., 20 S 23d, Phila., Pa.
Smith, H. B. Machine Co., Smithville, N. J., & 121 Liberty, New York

Yerkes & Finan Woodworking Machine Co., St. Louis, Mo.

Sash Grooving Machines

Smith & Phillips Mfg. Co., 269 Desplaines, Chicago

Sash Trimmer Machines

Heald Machine Co. ("American" for Diamond & Irregular Sash), Worcester, Mass.

Sausage Making Machines

Smith's, Jno. E. Sons Co. ("Buffalo Silent"), 50 B'way, Buffalo, N. Y.

Saw Filing & Setting Machines

Bishop, Geo. H. & Co., Lawrenceburg, Ind.
Detrick & Harvey Machine Co., 508 E Preston, Baltimore, Md.

Grimes & Harris (For Band Saws), Leominster, Mass.

Rotary File & Machine Co. ("New Reliable" Automatic, for Circular Saws), 589 Kent av, Brooklyn, N. Y.

Saw Fitting Machinery

Baldwin, Tutbill & Bolton, Grand Rapids, Mich.
Oldham, Joshua & Sons (Inc.), 112 26th, Brooklyn, N. Y.

Saw Making Machinery

Hess Machine Works, 25th & Callowhill, Philadelphia, Pa.

Saw Mill Machinery

(See also Saw Mills, Various Kinds; also Sblingle Mill Machinery)

Adams, W. T. Machine Co., Corinth, Miss.
Alabama Iron Works, Mobile, Ala.
Albany Iron Works, Albany, Ore.

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

American Saw Mill Machinery Co., 114 Liberty, New York, & Hackettstown, N. J.

Asbland Iron Works, Ashland, Ore.
Atlanta Machine Works, Atlanta, Ga.

Aultman & Taylor Machinery Co., Mansfield, O.
Baldwin, Tutbill & Bolton, Grand Rapids, Mich.

Bartlett, A. F. & Co., Saginaw, Mich.
Bartley, Wm. & Son, Bartley, N. J.

Bartlett-Tewksbury Machine Mfg. Co., Birmingham, Ala.

Chambersburg Engineering Co., Chambersburg, Pa.

Chandler & Taylor Co., Indianapolis, Ind.
Chapman, T. M. Sons Co., Old Town, Me.

Chase Turbine Mfg. Co., Orange, Mass.
Chattanooga Machine Co., Chattanooga, Tenn.

Chickasaw Iron Works, Memphis, Tenn.
Clark Bros. Co., Belmont, N. Y.

Clark Machine Co., Turner's Falls, Mass.
Cole Mfg. Co., Lakeport, N. H.

Columbia Engineering Works, Portland, Ore.
Cook R. A., Stevens Point, Wis.

Corinth Engine & Boiler Works, Corinth, Miss.
Curtis & Co., Mfg. Co., St. Louis, Me

De Loach Mill Mfg. Co., Atlanta, Ga.
Diamond Iron Works (Full Line), Minneapolis, Minn.

DuBois Iron Works, DuBois, Pa.
Enterprise Mfg. Co., Columbiana, O.

Escanaba Iron Works, Escanaba, Mich.
Eureka Bark Mill Co., Lancaster, Pa.

Farquhar, A. B. Co. (Ltd.), York, Pa.
Filer & Stowell Co., Home Office, Milwaukee, Wis.

Fisher & Davis, 1024 N. Main, St. Louis, Mo.
Frick Co., Waynesboro, Pa.

Fulton Engine Works, Los Angeles, Cal.
Gaar, Scott & Co., Richmond, Ind.

Gainesville Iron Works, Gainesville, Ga.
Garland, M. Co., Bay City, Mich.

Geiser Mfg. Co., Waynesboro, Pa.
Georgia Iron Works, Augusta, Ga.

Hanchett, John & Bro., Big Rapids, Mich.
Hayes, F. B. Machine Co., Oshkosh, Wis.

Heilman Machine Works, Evansville, Ind.
Heneb & Dromgold Co., Inc., York, Pa.

Heintz, A. R. & Co., Portland, Ore.
Henderson, W. K., Iron Works & Supply Co., Shreveport, La.

Hendy, Joshua Machine Works, San Francisco, Cal.
Hill, W. B. & Co., Kalamazoo, Mich.

Honeyman, J. & Co., Portland, Ore.
Humphrey Machine Co., Keene, N. H.

Jackson & Church Co., Saginaw, Mich.
Kehoe, Wm. & Sons, Savannah, Ga.

Kilgore, Peteler Co. (Quick Acting), Minneapolis, Minn.
Kline, Lewis T., Alpena, Mich.

Klotz Machine Co., Sandusky, O.
Knight Mfg. Co., Canton, O.

Lake Shore Engine Works, Marquette, Mich.
LANE MFG. CO., Montpelier, Vt. (See adv. index, end of book)

Lexington Engine & Saw Mill Works, Lexington, Ky.
Liddell Co. (Inc.), Charlotte, N. C.

Link, E. M. Machinery Co. (Mfrs. Agents), Erie
Lister, S. G., Olympia, Wash. Pa.
Lufkin Foundry & Machine Co., Lufkin, Tex.
Lomhard Iron Works & Supply Co., Augusta, Ga.
McDonough Mfg. Co., Eau Claire, Wis.
Mallory Bros. Machinery Co., Macon, Ga.
Manistee Iron Works, Manistee, Mich.
Mariette Iron Works Mfg. Co., Marinette, Wis.
Masou, C. Z., Olympia, Wash.
Mecklenburg Iron Works, Charlotte, N. C.
Moltz, Jacob J., Williamsport, Pa.
Moravia Mfg. Co., Moravia, N. Y.
Morgan & Vorce (Portable), Warwick, Mass.
Murray, D. J. Mfg. Co., Wausau, Wis.
Murray Iron Works Co., Burlington, Ia.
Myrick Machine Co., Olean, N. Y.
North Alabama Engineering Co., New Decatur, Ala.

Ocala Foundry & Machine Works, Ocala, Fla.
Onida Iron Works, Oneida, N. Y.
Phoenix Iron Works, Portland, Ore.
Phoenix Mfg. Co., Eau Claire, Wis.
Port Huron Engine & Thresher Co., Port Huron, Mich.
Portland Iron Works, Portland, Ore.
Prescott, D. Clint Co., Menominee, Mich.
Prescott Supply Co., Marinette, Wis.
Robinson & Co., Richmond, Ind.
Russell & Co., Masillou, O.
Salem Iron Works, Winston, Salem, N. C.
Sinker-Davis Co., Indianapolis, Ind.
Smith, Myers & Schuler Co., 621 W. Front, Cincinnati, O.

Southern Engine & Boiler Works (Inc.), Jackson, Tenn.
Soule Steam Feed Works (Steam Feeds, Dogs, Dollies, Stackers, Conveyors, etc.), Meridian, Miss.

Standard Saw Mill Machinery Co., Erie, Pa.
Stearns Mfg. Co., Erie, Pa.
Trevor Mfg. Co. (Short Log), Lockport, N. Y.
Union Iron Works, Bangor, Me.
Vulcan Iron Works, 505 Mission, San Francisco, Cal.
Vulcan Iron Works Co., Seattle, Wash.
Watertown Engine Co., Watertown, N. Y.
Whelan Machine Works, Chattanooga, Tenn.
Whitney & Whitney (Portable), Warwick, Mass.
Wickes Bros., Saginaw, Mich.
Wilkin-Challoner Co., Oshkosh, Wis.
Wisconsin Engine Co., Corliss, Wis.

Saw Setting Machines

(See also Band Saw Setting Machines)

Covel Mfg. Co., Benton Harbor, Mich.
New Britain Machine Co., New Britain, Conn.

Saw Sharpening Machines

(See also Sbarpeners, Saw; also Band Saw Sharpening Machines.)

Baldwin, Tuthill & Bolton, Grand Rapids, Mich.
Cochrane-Bly Co., Rochester, N. Y.
Covel Mfg. Co. (for Automatic Band, Gang, Circular & Metal Saws, etc.), Benton Harbor, Mich.
Crown Iron Works Co. ("Blackmer"), Minneapolis, Minn.

Diamond Machine Co., Providence, R. I.
Disston, Henry & Sons (Inc.), Tacony, Phila., Pa.
Espeu-Lucas Machine Works, 1341 Noble, Phila., Pa.

Fairbanks, E. & T. Co., St. Johnsbury, Vt.
Higley Machine Co., 8 Dey, N. Y.
Newton Machine Tool Works (Inc.), 2347 Vine, Phila., Pa.
Nutter, Barnes & Co. (14 to 30-inch Automatic), 366 Atlantic av., Boston, Mass.
Quincy-Manchester-Sargent Co., Old Colony hldg., Chicago, Ill., & 95 Liberty, New York
Rogers, Saml. C. & Co. ("Buffalo" Band & Circular), 10 Lock, Buffalo, N. Y.
Rotary File & Machine Co. (Automatic for Band & Circular Saws), 589 Kent av., Brooklyn, N. Y.

*Sawing & Jointing Machines

LANE MFG. CO. ("Universal"), Montpelier, Vt. (See adv. index, end of book)

Scarfig Machines

United Engineering & Foundry Co. (Movable Motor Driven for Pipe & Tube Mills), Pittsburgh, Pa.

Scratching & Overhauling Machines

Cross & Speirs Machine Co. (for Removing Bad Spots from Brass Plates, etc.), Waterbury, Conn.

*Screening Machinery

JEFFREY MFG. CO., Columbus, O.
(See adv. index & branch offices, end of book)

Screw Cap Rolling Machines

American Can Co. ("Rudolph" & "Krummel" Automatic), 135 Adams, Chicago, Ill.

Screw Cutting Machines

Automatic Machine Co., Bridgeport, Conn.
Costilo, Jas. E., 60 Centre, New York.
Potter & Johnson Machine Co., Pawtucket, R. I.
Willey & Russell Mfg. Co. ("Green River"), Greenfield, Mass.

Screw Heading Machines

Cook, Asa S. Co., Hartford, Conn.
Manville, E. J. Machine Co., Waterbury, Conn.

Screw Machines

(See also Lathes, Turret)

Brown & Sharpe Mfg. Co. (Plain, Wire Feed, Automatic, etc.), Providence, R. I.
Costilo, Jas. E. (Automatic), 60 Centre, New York

Cleveland Automatic Machine Co. (Automatic), 131 2d av., Cleveland, O.

Dreses Machine Tool Co., Cincinnati, O.
Davis Sewing Machine Co. (Automatic, Multiple Spindle), Dayton, O.

Fay & Scott (Hand), Dexter, Me.
Foster-Kimball Machine Co., Chicago, Ill.

FREVERT MACHINERY CO., 18 Dey, New York. (See adv. index, end of book)

Garvin Machine Co., 137 Varick, New York.
Hartford Machine Screw Co. (Automatic), Hartford, Conn.

Jones & Lamson Machine Co., Springfield, Vt.
Meriden Machine Tool Co., Meriden, Conn.

National-Acme Mfg. Co. (Automatic; Multiple Spindle, Thread Rolling, with Side Drilling; Side Milling Attachments), Cleveland, O.

NIAGARA MACHINE & TOOL WKS., (Sheet metal), Buffalo, N. Y. (See adv. index, end of book)

Niles-Bement-Pond Co. (Automatic), 111 B'way, New York

Pitt & Lienhardt (Automatic), 213th & Harlem River, New York

Pratt & Whitney Co. (Automatic Shaping), Hartford, Conn.

STRONG, CARLISLE & HAMMOND Co., 333-344 Frankfort av., N. W., Cleveland, O. (See adv. index, end of book)

TUOHY BROS. CO., 95 Liberty, New York. (See adv. index, end of book)

Warner & Swasey Co. (Turret), Cleveland, O.
Windsor Machine Co. (Automatic), Windsor, Vt.

Screw Machines (Automatic)

BLISS, E. W. CO. (for Threading Sheet Metal Screws), 19 Adams, Brooklyn, N. Y.

Brown & Sharpe Mfg. Co., Providence, R. I.
Cleveland Automatic Machine Co., Cleveland, O.

Costilo, Jas. E., 60 Centre, New York.
Hartford Machine Screw Co., Hartford, Conn.

National-Acme Mfg. Co. (Multiple Spindle, Thread Rolling, with Side Drilling, Side Milling Attachments), Cleveland, O.

Pearson Machine Co., Chicago, Ill.
Pratt & Whitney Co. (With Magazine Attachment, etc.), Hartford, Conn.

Universal Machine Screw Co., Hartford, Conn.
Wells, F. E. & Son Co., Greenfield, Mass.

Windsor Machine Co., Windsor, Vt.

Screw Machines (Gimlet Pointing, Coach)

COOK, ASA S. CO., Hartford, Conn.
Manville, E. J. Machine Co., Waterbury, Conn.
Pawtucket Mfg. Co., Pawtucket, R. I.

Screw Machines (Double Turret Hand)

Garvin Machine Co., 137 Varick, New York.

Screw Machines (Hand)

Bardons & Oliver, Cleveland, O.
BLISS, E. W. CO., 19 Adams, Brooklyn, New York. (See adv. index, end of book)

Brown & Sharpe Mfg. Co., Providence, R. I.
Dreses Machine Tool Co., Cincinnati, O.

Fay & Scott, Dexter, Me.
Foster-Kimball Co., Elkhart, Ind.

Garvin Machine Co., Spring & Varick, New York
Pratt & Whitney Co., Hartford, Conn.

Warner & Swasey Co., Cleveland, O.

Windsor Machine Co., Windsor, Vt.

Screw Machines (Lag)

Baker Bros., Toledo, O.

*Screw Machines (Stiles)

BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)

Screw Polishing Machines

Brown & Sharpe Mfg. Co., Providence, R. I.

Screw Shaving Machines

Brown & Sharpe Mfg. Co., Providence, R. I.
Garvin Machine Co., 137 Varick, New York

Pawtucket Mfg. Co., Pawtucket, R. I.

Pratt & Whitney Co., Hartford, Conn.

Screw Slotting Machines

(See also Slotting Machines.)

Brown & Sharpe Mfg. Co., Providence, R. I.
Davis Sewing Machine Co. (Automatic), Dayton, O.

Fenn Machine Co. (Automatic, 15,000 to 18,000 Screws per Day), 734 Main, Hartford, Conn.

Garvin Machine Co., 137 Varick, New York.
Grant Mfg. & Machine Co., Bridgeport, Conn.

Hartford Machine Screw Co., Hartford, Conn.
Hubbell, Harvey, Bridgeport, Conn.

Manville, E. J. Machine Co., Waterbury, Conn.
National-Acme Mfg. Co., Cleveland, O.

Pratt & Whitney Co., Hartford, Conn.
Slate, Dwight Machine Co., Hartford, Conn.

Screw Thread Rolling Machines

Blake & Johnson, Waterbury, Conn.
Cross & Speirs Machine Co., Waterbury, Conn.

Leffler, Chas. & Co. (For Sheet Metal Screws, etc.), 63 Clymer, Brooklyn, N. Y.

Manville, E. J. Machine Co. (Automatic), Waterbury, Conn.

Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.

Scroll Sawing Machines

American Woodworking Machinery Co., Rochester, N. Y., & West st bldg., New York

Atlantic Works (Inc.), 2821 Oakford, Phila., Pa.

Barnes, W. F. & Jno. Co. (Foot & Power), Rockford, Ill.

Beach, H. W., Montrose, Pa.
Bentel & Margedant Co., Hamilton, O.

Colladay, Jos. O., 624 Race, Phila., Pa.
Fay, J. A. & Egan Co., Cincinnati, O.

Frank Machinery Co., 214 Terrace, Buffalo, N. Y.

GRAMMES, L. F. SONS, Allentown, Pa. (See adv. index, end of book)

Power, L. & Co., 20 S 23d, Phila., Pa.
Seneca Falls Mfg. Co. (Foot & Power), Seneca Falls, N. Y.

Seymour & Whitlock, Newark, N. J.
Yerkes & Finan Woodworking Machine Co., St. Louis, Mo.

Scythe Rolling Machines

Birmingham Iron Foundry, Derby, Conn.

Seat Back Bending Machinery

Bentel & Margedant Co., Hamilton, O.

*Seed Cleaning & Separating Machinery

SCHULE, F. H. CO., 27 Thames, New York. (See adv. index, end of book)

Seine Making Machinery

(See Netting Machines.)

Sewer Cleaning Machines

Healey Sewer Machine & Construction Co., 15 Beacon, Boston, Mass.
Shannon, J. H. & R. Co. ("Shannon"), 538 Bergen av, Jersey City, N. J.

Sewer Excavating Machinery

(See Sewer & Trench Excavating Machines)

Sewer Pipe Machinery

American Clay Machinery Co., Bucyrus, O., & Willoughby, O.
Davis-Price Fdy. & Machine Co., New Cumberland, W. Va.
Freese, E. M. & Co., Galion, O.
Means Foundry & Machine Co., Steubenville, O.
Stevenson Co., Wellsville, O.
Taplin, Rice & Co., Akron, O.
Turner, Vaughan & Taylor Co., Cuyahoga Falls, O.

Sewer & Trench Excavating Machines

BALANCED CABLE CRANE CO., THE, 135 William, New York. (See adv. opp. last page of Index of Contents)
Carson Trench Machine Co., 16 Dorrance, Boston, Mass.
Fairbanks Steam Shovel Co., Marion, O.
MUNICIPAL ENGINEERING & CONTRACTING CO. ("Chicago"), Railway Exchange bldg, Chicago, Ill., & 90 West, New York. (See adv. index, end of book)
Nohle, H. A. (Odorless Excavating), 203 Dock, Phila., Pa.
Potter Mfg. Co., 2018 Northwestern av, Indianapolis, Ind.
SHAW, WILLIS ("Clark"), 171 La Salle, Chicago, Ill. (See adv. index, end of book)

Shading Machines (Lithographers' & Photo-Engravers')

American Shading Machine Co., 164 Rano, Buffalo, N. Y.

Shaft Boring Machines

Pratt & Whitney Co., Hartford, Conn.

Shaft Polishing Machines

Brightman Mfg. Co., Shelby, O.

Shaft Straightening Machines

Brightman Mfg. Co., Shelby, O.
Fitchburg Machine Works (Shaft, etc.), Fitchburg, Mass.
New Haven Mfg. Co., New Haven, Conn.
Niles-Bement-Pond Co., 111 B'way, New York
Philadelphia Roll & Machine Co., S 23d & Wash'n av, Phila., Pa.
Putnam Machine Co., Fitchburg, Mass.
Sellers, Wm. & Co. (Inc.) (Hand or Power), 1600 Hamilton, Phila., Pa.
WATSON-STILLMAN CO. (Hydraulic), 26 Cortlandt, New York. (See adv. index, end of book)

Shaft Turning Machines

(See Lathes, Shaft Turning.)

Shaft & Pole Machinery

DEFIANCE MACHINE WORKS, Defiance, O. (See adv. index, end of book)

Shafting Machinery

Brightman Mfg. Co., Shelby, O.
Franklin Machine Co., Providence, R. I.

Shaping Machines

American Tool Works Co. (Crank & Geared), Cincinnati, O.
American Woodworking Machinery Co., Rochester, N. Y., & West St bldg, New York
Barker, Wm. A. & Co. (Crank & Geared), c Pioneer & Culvert, Cincinnati, O.
Boynton & Plummer (Hand & Power), Worcester, Mass.

Cincinnati Shaper Co. (Crank, Geared, Traverse & Open Side), Garrard av c Elm, Cincinnati, O.

Eherhardt Bros. Machine Co., 66 Union, Newark, N. J.

Fellows Gear Shaper Co. (Gear), Springfield, Vt.
Fitchburg Machine Works, Fitchburg, Mass.
Flather & Co., Nashua, N. H.

FREVERT MACHINERY CO., 18 Dey, New York. (See adv. index, end of book)

Garvin Machine Co., 137 Varick, New York
Gould & Eherhardt (Double Triple Quick Stroke Extension Base Shaper), Newark, N. J.

Hamilton Machine Tool Co. (16, 20 & 24-inch), Hamilton, Ohio

Hendey Machine Co. (Pillar), Torrington, Conn.
Kelly, R. A. Co. (Crank), Xenia, O.

KINSEY, E. A. CO., 331 W 4th, Cincinnati, O. (See adv. index, end of book)

MANNING, MAXWELL & MOORE (Inc.), 85, 87 & 89 Liberty, New York. (See adv. index & branch offices, end of book)

Morton Mfg. Co. (Draw Cut), Muskegon Heights, Mich.

New Haven Mfg. Co., New Haven, Conn.
Newton Machine Tool Works, 2347 Vine, Phila., Pa.

Niles-Bement-Pond Co., 111 B'way, New York

PERKINS MACHINE CO. (Friction), Warren, Mass. (See adv. index, end of book)

Potter & Johnston Mach. Co. (Universal), Pawtucket, R. I.

Putnam Machine Co., Fitchburg, Mass.

Queen City Machine Tool Co., Cincinnati, O.
Reed, J. B. (Triple Gear, etc.), Cairo, Ill.

Rhodes, L. E. (Crank), Hartford, Conn.
Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Phila., Pa.

Shepard Lathe Co., 129 W 2d, Cincinnati, O.

Smith & Mills (Crank & Geared), c Spring Grove av & Township, Cincinnati, O.

Springfield Machine Tool Co. (Crank & Geared), Springfield, O.

Steptoe, Jno. Shaper Co. (Crank & Geared), 2949 Colerain av, Cincinnati, O.

Stockbridge Machine Co. (Two Piece Crank), Worcester, Mass.

TUOHY BROS. CO., 95 Liberty, New York. (See adv. index, end of book)

Walcott & Wood Machine Tool Co. (15, 22, 26, 30, 34 & 48-inch Geared & 16 & 18-inch Elliptical Gear Crank Shaper, with Back Gear), Jackson, Mich.

Shaping Machines for Steel Foundries

Wetherill, R. & Co., Chester, Pa.

Shaping Machines (Friction)

PERKINS MACHINE CO., Warren, Mass. (See adv. index, end of book)

Shaping Machines (Strapping)

PERKINS MACHINE CO., Warren, Mass. (See adv. index, end of book)

Shaping Machines (Wood)

(See also Wood Carving Machines.)

Advance Machinery Co., Toledo, O.
American Steam Pump Co. (Spindle Shapers, etc.), Battle Creek, Mich.

Atlantic Works (Inc.), 2821 Oakford, Phila., Pa.
Bentel & Margedant Co., Hamilton, O.

Colladay, Jos. O., 656 Race, Phila., Pa.
Cordesman, Rehtin Co., 25 Butler, Cincinnati, O.

Cordesman, Meyer & Co., 53 Central av, Cincinnati, O.

DEFIANCE MACHINE WORKS, Defiance, O. (See adv. index, end of book)

Fay, J. A. & Egan Co., Cincinnati, O.

Frank Machinery Co., 214 Terrace, Buffalo, N. Y.

Hayes, E. B. Machine Co. (Double End), Oshkosh, Wis.

Heath, W. A. Machine Co., Lestershire, N. Y.

Klotz Machine Co., Sandusky, O.

Moshannon Mfg. Co. (& Carved), Phillipsburg, Pa.

Oher Mfg. Co. (Combined Shaper, Saw & Jointer), Chagrin Falls, O.

Porter, C. O. & A. D., Grand Rapids, Mich.

Power, L. & Co., 20 S23d, Phila., Pa.

Smith, H. B. Machine Co., Smithville, N. J., & 121 Liberty, New York

Yerkes & Finan Woodworking Machine Co. (Double Spindle Shaper, etc.), St. Louis, Mo.

Sheep Shearing Machines

American Shearer Mfg. Co., Nashua, N. H.
Chicago Flexible Shaft Co. ("Stewart's"), La Salle av & Ontario, Chicago, Ill.

COATES CLIPPER MFG. CO. ("Coates" Flexible Shaft), Worcester, Mass. (See adv. index, end of book)

Gillette Clipping Machine Co., 114 W 32d, New York

Goes, Oscar & Co. ("Allen" & "Pioneer-American"), 16 S Canal, Chicago, Ill.

Sheet Lead Rolling Machines

Farrel Foundry & Machine Co., Ansonia, Conn.

Sheet Metal Forming Machinery

Baird Machine Co., Oakville, Conn.
BLISS, E. W. CO., 19 Adams, Brooklyn, New York. (See adv. index, end of book)

Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.

Sheet Metal Lath Machines

BLISS, E. W. CO., 19 Adams, Brooklyn, New York. (See adv. index, end of book)

Ohl, Geo. A. & Co., 157 Oraton, Newark, N. J.

Sheet Metal Workers' Machines & Tools

(See also Punching Machines, Various Kinds; also Presses, Various Kinds; also Shears, Various Kinds)

Adrlance Machine Works, 254 Van Brunt, Brooklyn, N. Y.

American Can Co., Merchants' Loan & Trust bldg, Chicago, Ill.

American Hdw. Mfg. Co., Ottawa, Ill.

Ayars Machine Co., Salem, N. J.

Berger Bros. Co., 237 Arch, Phila., Pa.

BETHLEHEM FOUNDRY & MACHINE CO., Front, South Bethlehem, Pa. (See adv. index, end of book)

BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)

Bertsch & Co., Cambridge City, Ind.

Brown, F. S. & G. L., 20 E Fort av, Baltimore, Md.

Barritt, O. W. & Bros., Weedsport, N. Y.

CANTON FOUNDRY & MACHINE CO., ("Universal"), Canton, O. (See adv. index, end of book)

Consolidated Press & Tool Co., 98 N Clinton, Chicago, Ill.

Double Truss Cornice Brake Co., Buffalo, N. Y.

Drels & Krump, 3214 S Halsted, Chicago, Ill.

Eclipse Machine Co., Troy, N. Y.

Ferracute Machine Co., Bridgeton, N. J.

Gohlke, Theo., 12th & Locust, St. Louis, Mo.

HEARTLEY MACHINE, VARIETY Iron & Tool Works, Toledo, O. (See adv. index, end of book)

Keene, Geo. C. & Co., 2327 Florence, Cincinnati, O.

Leffler, Chas. & Co., 63 Clymer, Brooklyn, N. Y.

Lethwaite, T. H., 413 E. 31st, New York

Loy & Nawrath, Newark, N. J.

When writing to firms whose names appear in this book please mention

HENDRICKS' COMMERCIAL REGISTER.

NIAGARA MACHINE & TOOL WKS., Buffalo, N. Y. (See adv. below)
 Ohl, G. O. A. & Co., 157 Oraton, Newark, N. J.
 Packham Crimper Co., Mechanicsburg, O.
 Peck, Stow & Wilcox Co., 27 Murray, N. Y., & Southington, Conn.
 Pels, Henry & Co., 68 Broad, New York.
PERKINS MACHINE CO., Warren, Mass. (See adv. index, end of book)
 Pocock, Oliver (Forming Machine), 1042 Harriet, Cincinnati, O.
 Poorman, O. O. Co., Dayton, Ohio.
 Robinson, J. M. Mfg. Co., 2d & Central av. Cincinnati, O.
 Slate, Dwight Machine Co. (Double Seamers), Hartford, Conn.
 Swaine, Fred. J. Co., St. Louis, Mo.
 Toledo Machine & Tool Co., Toledo, O.
 United Shoe Machinery Co., 205 Lincoln, Boston, Mass. Works: Beverly, Mass.
 V. & O. Press Co., Glendale Station, Long Island, N. Y.
 Weiss, H. & Co., 20 Cliff, N. Y.
 Wold, Torris & Co., 66 N Jefferson, Chicago, Ill.

Sheet Mill Machinery

Aetna Foundry & Machine Co., Warren, O.
 Braddock Machine & Mfg. Co., Braddock, Pa.
 United Engineering & Foundry Co., Farmers' Bank bldg, Pittsburg, Pa.

Sheet Paper Cutting Machines

Kidder Press Co., Dover, N. H., & 150 Nassau, N. Y.

Sheet Pasting Machines

Blessing, Louis (for strawboard or pulp sheet pasting), Jackson, Mich.

Shingle Mill Machinery

Adams, S. & Son (Saw & Shingle Mill Machinery), Rome, N. Y.
 Adams, W. T. Machine Co., Corinth, Miss.
 American Sawmill Machinery Co. ("American" & "Climax"), 114 Liberty, New York. Works: Hackettstown, N. Y.
 Austin & Son, Grand Rapids, Mich.
 Bartlett, A. F. & Co., Saginaw, Mich.
 Butterworth & Lowe, Grand Rapids, Mich.
 Challoner's, Geo. Sons Co., Oshkosh, Wis.
 Chase Turbine Mfg. Co., Orange, Mass.
 Clark Machine Co., Turner's Falls, Mass.
 Cook, R. A., Stevens Point, Wis.
 Curtis & Co. Mfg. Co. ("Dixie"), St. Louis, Mo.
 De Loach Mill Mfg. Co., Atlanta, Ga.
 Farquhar, A. B. Co. (Ltd.), York, Pa.
 Georgia Foundry & Machine Works, Rome, Ga.
 Gerlach, Peter Co., 1708 Columbus rd, Cleveland, O.
 Hendy, Joshua Machine Works, San Francisco
 Jackson & Church Co., Saginaw, Mich.
LANE MFG. CO., Montpelier, Vt. (See adv. index, end of book)
 Lovell, F. S. Machine Works, Fitchburg, Mass.
 Mason, C. Z., Olympia, Wash.
 Murray, D. J. Mfg. Co., Wausau, Wis.
 Novelty Iron Works (G. E. Davis, Prop.) ("Triumph," "Evarts"), Duquaque, Ia.
 Perkins & Co., Grand Rapids, Mich.
 Phoenix Mfg. Co., Eau Claire, Wis.
 Portland Iron Works, Portland, Oregon.
 Rochester Barrel Machine Works, Rochester, N. Y.

Southern Engine & Boiler Works (Inc.), Jackson, Tenn.
 Standard Saw Co. (Shingle Saws only), Bradford, Pa.
 Trevor Mfg. Co., Lockport, N. Y.
 Union Iron Works, Bangor, Me.
 United States Machine Co., Williamsport, Pa.
 Vulcan Iron Works Co., Seattle, Wash.
 Wheland Machine Works, Chattanooga, Tenn.
 Wickes Bros., Saginaw, Mich.
 Willamette Iron & Steel Works, Portland, Ore.

Ship Building Machinery

MORGAN ENGINEERING CO., Alliance, O. (See adv. index, end of book)

Shipping Tag Machines

Toledo Machine & Tool Co., Toledo, O.

Shoe Machinery

Adams, Jno. J., Worcester, Mass.
 Allen Machine Co., Haverhill, Mass.
 Bartlett, E. E., 326 A, Boston, Mass.
 Bresnahan Shoe Machinery Co., Lynn, Mass.
 Carver Cotton Gin Co., East Bridgewater, Mass.
 Champion Shoe Machinery Co. (Wax Thread Sewing or Stitching Machine, etc.), St. Louis, Mo.
 Cilley, W. W. & Co. (Stitchers), Lynn, Mass.
 Freeman & Duckworth, Lawrence, Mass.
 Freeman, Louis G., 212 E 9th, Cincinnati, O.
 Heald Machine Co. (Crimping Machines), Worcester, Mass.
 Keighley, Wm. B., Vineland, N. J.
 King, L. B. (Stitchers), Lynn, Mass.
 Lufkin, R. H. (Vamp Marking Machines), 38 Chardon, Boston, Mass.
 Mitchell, Robert Machinery Co. (Electrical Shoe Ironers, Wax Pots, etc.), 75 W. Larned, Detroit, Mich.
 Rogers, John F. (Vamp Marking Machines), Belfast, Me.
 Ross-Mayer Mfg. Co. (Heel Building Machines), Cincinnati, Ohio.
 Seelye Mfg. Co., 118 South, Boston, Mass.
 Shrines, Hannah A., Lynn, Mass.
 Stanbon, Chas. P. & Co., Lynn, Mass.
 Stimpson, Edwin B. & Son (aud Supplies), 31 Spruce, N. Y.
 Stauley Co., Lawrence, Mass.
 Tower Bros., Hudson, Mass.
 Treen-Sawyer Shoe Machinery Co. (Stitchers), Lynn, Mass.
 United Shoe Machinery Co., 205 Lincoln, Boston, Mass. Works: Lynn, Mass., & Winchester, Mass.
 Wellman Sole Cutting Machine Co., Medford, Mass.

Shoe Peg Machinery

Cowdrey & Co., Fitchburg, Mass.
 Humphrey Machine Co., Keene, N. H.

Shop Sawing Machines (Iron)

(See also Metal Sawing Machines)
 Buda Foundry & Mfg. Co. (Rail & Shop), Railway Exchange bldg, Chicago, Ill. Works: Harvey, Ill.
 Clark, Jas., Jr., & Co. ("Willey," Electrically Driven), 313 W Main, Louisville, Ky.
CLEVELAND PUNCH & SHEAR Works Co., 1306 E 40th, Cleveland, O. (See adv. index, end of book)
 High Duty Saw & Tool Co., Eddystone, Pa.

Higley Machine Co., S Dey, N. Y.
 Newton Machine Tool Works, 2347 Vine, Philadelphia, Pa.
 Niles-Bement-Pond Co., 111 B'way, New York.

Shot Machines

Fanning, J. P., 678 Jefferson av, Brooklyn, N. Y.

Shovel Handle Machinery

DEFIANCE MACHINE WORKS, Defiance, O. (See adv. index, end of book)

Shovel Machinery

Bertsch & Co., Cambridge City, Ind.
 West St. Louis Machine & Tool Co. (also Sanding & Polishing Machines), 606 Manchester av, St. Louis, Mo.

Shuttle Machinery

Carey, W. W., 514 B'way, Lowell, Mass.

Side Path Machines

ACME ROAD MACHINERY CO., Frankfort, N. Y. (See adv. index, end of book)

Sidewalk Block Machines

United Cement Machinery Mfg. Co., Columbus, Ohio.

Sifting Machinery

Great Western Mfg. Co. (for Flour Mills), Leavenworth, Kans.
 Richmond City Mills Works, Richmond, Ind.
 Ross, Chas. & Son Co., 148 Classou av, Brooklyn, N. Y.
 Sprout, Waldron & Co., Muney, Pa.

Single Tree Machinery

DEFIANCE MACHINE WORKS, Defiance, O. (See adv. index, end of book)

Sizing Machines

United Engineering & Foundry Co. (for 3/8 to 4-inch Butt Weld Pipe), Farmers' Bank bldg, Pittsburg, Pa.

Sizing or Spooling Machines

Lang, E. M. Co. (Canners), Portland, Me.

Skewer Machinery

Smith, H. B. Machine Co., Smithville, N. J.

Slabbing Machines

Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Philadelphia, Pa.

Slack Barrel Machinery

(See Barrel, Keg, Stave & Heading Machinery)

MACHINERY for WORKING SHEET METAL

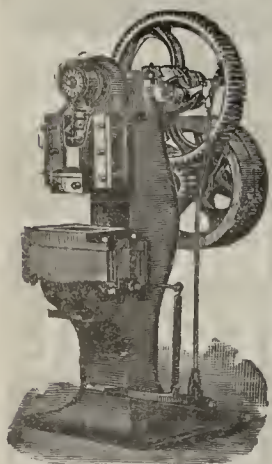
PRESSES DIES PUNCHES

Tinsmiths' Tools and Machines—Squaring, Rotary and Lever Shears

OUTFITS FOR MAKING ARTICLES OF SHEET METAL

MADE BY

Niagara Machine & Tool Works, Buffalo, N. Y.



Slag & Cinder Machines

Heyl & Patterson (for Blast Furnaces), 51 Water, Pittsburgh, Pa.

Slate Dressing Machines

FLORY, S. MFG. CO., Bangor, Pa.
(See adv. index, end of book)

Slate Drilling & Countersinking Machines

FLORY, S. MFG. CO. ("Flory" Power), Bangor, Pa. (See adv. index, end of book)

Slate Grooving Machines

FLORY, S. MFG. CO. (Hand Power), Bangor, Pa. (See adv. index, end of book)

Slate Machinery

FLORY, S. MFG. CO., Bangor, Pa.
(See adv. index, end of book)
Lincoln Iron Works, Rutland, Vt.
Patch, F. R. Mfg. Co., Rutland, Vt.
Ruggles Machine Co. (Planers, Saws, Groovers, Trimmers, Drills, etc.), Poultney, Vt.

Slaughter House Machinery

Smith, Theo. & Sons Co. (Digestors, etc.), ft of Essex, Jersey City, N. J.

Slicing Machines (Bread, Meat, Etc.)

Arcade Mfg. Co. (also for Vegetables, Fruits, etc.), Freeport, Ill.

Slitting Machines

Blake & Johnson, Waterbury, Conn.
BLISS, E. W. CO. (Gang Patterns, etc.), 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)
Cross & Speirs Machine Co. (Gang Pattern, etc.), Waterbury, Conn.
HEARTLEY MACHINE, VARIETY
Iron & Tool Works, Toledo, O. (See adv. index, end of book)

Kidder Press Co., Dover, N. H.
Leflier, Chas. & Co. (For Can Makers, etc.), 63 Clymer, Brooklyn, N. Y.

NIAGARA MACHINE & TOOL WKS.,
Buffalo, N. Y. (See adv. on preceding page)
Norton-Jones Machine Tool Works, Plainville, Conn.

Standard Machinery Co. (Gang Patterns, etc.), Providence, R. I.

Toledo Machine & Tool Co. (Gang Pattern, etc.), Toledo, O.

Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.

Waterbury Machine Co. (Gang Slitters for Brass Goods, etc.), Waterbury, Conn.

Slot Machines

(See Vending Machines)

Slotting Machines

(See also Screw Slotting Machines)

Baker Bros., Toledo, O.
Betts Machine Co. (8 to 26-inch stroke), Wilmington, Del.

Clough, R. M., Tolland, Conn.

Costilo, Jas. E., 60 Centre, New York

Dill, T. C. Machine Co. (Inc.), Phila., Pa.

FREVERT MACHINERY CO., 18 Dey,
New York. (See adv. index, end of book)

Garvin Machine Co., 137 Varick, New York

Grant Mfg. & Machine Co., Bridgeport, Conn.

Hartford Machine Screw Co., Hartford, Conn.

Hendy, Joshua Machine Works, San Francisco, Cal.

Hendey Machine Co., Torrington, Conn.

High Duty Saw & Tool Co. (Cold Saw), Eddystone, Pa.

Morton Mfg. Co. (Portable), Muskegon Heights, Mich.

National-Acme Mfg. Co., Cleveland, O.

New Haven Mfg. Co., New Haven, Conn.

Newton Machine Tool Works, 2347 Vine, Phila., Pa.

Niles Bement-Pond Co., (Crank, Geared & Frame), 111 B'way, New York

Putnam Machine Co., Fitchburg, Mass.

Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Phila., Pa.
TUOHY BROS. CO., 95 Liberty, New
York. (See adv. index, end of book)
Waterbury-Farrel Foundry & Machine Co.
(Screw Head), Waterbury, Conn.

Slotting Machines (Locomotive Frame)

Niles-Bement-Pond Co., 111 B'way, New York
Sellers, William & Co., 1600 Hamilton, Phila., Pa.

Slotting Machines (Portable)

Espen-Lucas Machine Works, Phila., Pa.
Morton Mfg. Co., Muskegon Heights, Mich.
Newton Machine Tool Works (Inc.), Phila., Pa.
Niles-Bement-Pond Co., 111 B'way, New York

Smashing Machinery

Sheridan, T. W. & C. B. Co. (Bookbinders), 56 Duane, New York, & Chicago, Ill.

Smelting Machinery

ALLIS-CHALMERS CO., Milwaukee,
Wis. (See adv. index & branch offices, end of book)

Colorado Iron Works Co., Denver, Col.

Denver Engineering Works Co., Denver, Colo.

FAWCUS MACHINE CO., 2820 Small-
man, Pittsburg, Pa. (See adv. index, end of book)

Fulton Iron Works, 509 Market, San Francisco, Cal.

Hendy, Joshua, Machine Works, San Francisco, Cal.

Salt Lake Engineering Works, Salt Lake City, Utah

Silver, Hynum A. Foundry & Machine Co., Salt Lake City, Utah

Traylor Engineering Co., 114 Liberty, New York

Smoke Test Machines

Bailey-Farrell Mfg. Co., 3d av & Ross, Pittsburg, Pa.

Gunster & Forsyth, Scranton, Pa.

Knapp Mfg. Co., 25 Frankfort, New York

Vanderman Plumbing & Heating Co., Williamantic, Conn.

Snuff Factory Machinery

Girard Machine Works (Inc.), 2616 Girard av, Phila., Pa.

Soapmakers' Machinery

Blanchard Machine Co., Boston, Mass.

Blettner, Jos. B. & Co., 1976 Central av, Cincinnati, O.

Bowman, Walker, 39 Cortlandt, New York City

Dopp, H. William & Son, 522 Ellicott, Buffalo, N. Y.

Hersey Mfg. Co., cor E & 2d, South Boston, Mass.

Houchin & Huber, 39 53d, Brooklyn, N. Y.

SCHULE, F. H. CO., 27 Thames, New
York. (See adv. index, end of book)

Soap Mixing Machines

Blanchard Machine Co., Boston, Mass.

Hersey Mfg. Co., cor E & 2d, South Boston, Mass.

Houchin & Huber, 39 53d, Brooklyn, N. Y.

Soldering Machines

Astoria Iron Works (Inc.) (Side Seam, Chain & Special), Astoria, Oreg.

Benedict, L. ("Leiger" Lock Seam Body Forming & Soldering Machines), 128 S Clinton Chicago, Ill.

BLISS, E. W. CO., 19 Adams, Brook-
lyn, N. Y. (See adv. index, end of book)

Consolidated Press & Tool Co., 96 N Clinton Chicago, Ill.

Fanning, J. P. (Triangular), 678 Jefferson av, Brooklyn, N. Y.

Ferracute Machine Co., Bridgeton, N. J.

Hubbard, W. H. Mfg. Co., Brooklyn, N. Y.

Lang, E. M. Co. (Wire, Drop & Stick, Single & Double Wire & Segment), Portland, Me.

Leflier, Chas. & Co., Brooklyn, N. Y.

Marquette, Jno. N., 507 S Edeu, Baltimore, Md.

NIAGARA MACHINE & TOOL WKS.,
Buffalo, N. Y. (See adv. on preceding page)

Sole Leather Rolling Machines

Baker, G. W. & Co., Wilmington, Del.

Solid Die Hot Rivet Heading Machines

Ajax Mfg. Co. (Only Makers), Cleveland, O.

Special Machinery

ABENDROTH & ROOT MFG. CO.
(Made According to Specifications), Newburg, N. Y. (See adv. index & branch offices, end of book)

Adriance Machine Works, 254 Van Brunt, Brooklyn, N. Y.

AITON MACHINE CO., 126 Liberty,
New York. Works: Harrison, N. J. (See adv. index, end of book)

American & British Mfg. Co., Providence, R. I., & Bridgeport, Conn.

American Can Co., Merchants' Loan & Trust bldg, Chicago, Ill.

Atlantic Works, East Boston, Boston, Mass.

Automatic Machine Co., Bridgeport, Conn.

Bair & Gazzam Mfg. Co., Pittsburg, Pa.

Baker Bros., Toledo, O.

Barbour-Stockwell Co., Cambridgeport, Mass.

Beaman & Smith Co. ("Three-Way Facing," etc.), Providence, R. I.

Bender, Ph. J. & Sons, 87 Frankfort, N. Y.

Bentel & Margedant Co., Hamilton, O.

BETHLEHEM FOUNDRY & MACHINE
Co., Front, South Bethlehem, Pa. & 149 B'way, New York (See adv. index, end of book)

Bethlehem Steel Co. (Heavy), South Bethlehem, Pa., & 100 B'way, New York

Bigelow Co. (Special Heavy), New Haven, Conn.

Bilgram, Hugo, 1235 Spring Garden, Phila., Pa.

Birdsboro Steel Foundry & Machine Co., Birdsboro, Pa.

Birmingham Iron Foundry (For Agricultural Implement Makers, etc.), Derby, Conn.

Black & Clawson Co., Hamilton, O.

BLISS, E. W. CO., 19 Adams, Brook-
lyn, N. Y. (See adv. index, end of book)

Bloomsburg Foundry & Eng. Works, Bloomsburg, Pa.

Brandt, Edw. J. Dent Co. Watertown, Wis.

Bridgeford, Chas. (Heavy), 225 Mill, Rochester, N. Y.

Brooks, Chas. J., 27 Artizan, New Haven, Conn.

BROWN, A. & F. CO., 25 Dey, New
York. Works: Elizabethport, N. J. (See adv. index, end of book)

Brown, F. S. & G. L., 20 E Fort av, Baltimore, Md.

Buchel Machine Works, 827 Conti, New Orleans, La.

Budd & Ranney Mfg. Co., Columbus, O.

Buescher Band Instrument Co., Elkhart, Ind.

Builders' Iron Foundry, Providence, R. I.

Burgess, E. A. (Est. of) (& Inventions Perfected), New Haven, Conn.

Burroughs, Chas., 141 Commerce, Newark, N. J.

Cady Machine Co., Williamson Bldg.

Cameron-Tennant Machine Works, Richmond, Va.

Carroll Foundry & Machine Works, Bucyrus, O.

Carter & Hakes Machine Co., Winsted, Conn.

Coffee, R. W. & Sons (Inc.), Richmond, Va.

Colthar, Wm. U., Springfield, O.

COOK, ASA S. CO., 80 Huyslope av.,
Hartford, Conn. (See adv. index, end of book)

Cook, Henry C. Machine Co., Ansonia, Conn.

Cornell, J. B. & J. M. Co., 26th & 11th av, New York

Costilo, Jas. E., 60 Centre, New York

Coulter & McKenzie Machine Co., Bridgeport, Conn.

Cowdrey, C. H. Machine Works, Fitchburg, Mass.

Crescent Novelty Mfg. Co. (also Experimental), 703 S B'way, St. Louis, Mo.

CURRIER, CYRUS & SONS, Newark,
N. J. (See adv. index, end of book)

Curtis & Marble Machine Co., Worcester, Mass.

Davis, W. P. Machine Co., Rochester, N. Y.

Deane, H. C. Machine Co., Fitchburg, Mass.

Detrick & Harvey Machine Co., 508 E Preston, Baltimore, Md.

Dienelt & Eisenhard, 1308 N Howard, Phila., Pa.

Dillon Machine Co., Dallas, Tex.

DOBBIE FOUNDRY & MACHINE CO.,
Niagara Falls, N. Y. (See adv. index & branch offices, end of book)

Dodge Machine Works, Syracuse, N. Y.

Eagle Tool & Machine Co. (Special Machinery & Tools), 519 Ann, Allegheny, Pa.

Eastwood Wire Mfg. Co. (Heavy & Fine), Belleville, N. J.

Eberhardt Bros. Machine Co., Newark, N. J.
Eickmeyer Machine Co. (Experimental, etc.),
Yonkers, N. Y.

ELMES, CHAS. F. ENGINEERING
Works (Mills, Linseed & Oil Machinery),
Fulton, c N Sangamon, Chicago, Ill. (See
adv. index, end of book)

Empire State Engineering Co., 116th & E. R.,
New York

Enterprise Machine Works, Richmond, Va.
FAWCUS MACHINE CO., 2820 Small-
man, Pittsburg, Pa. (See adv. index, end
of book)

Fenn Machine Co., (Small Machinery a Spe-
cialty), Hartford, Conn.

Fischer Foundry & Machine Co. (Heavy), Pitts-
burg, Pa.

Foot Bros. Gear & Machine Co. (Gears Cut,
etc.), 30 S Clinton, Chicago, Ill.

Franklin Machine Co., Providence, R. I.
Gardam, Wm. & Son (Inc.), 45 Rose, N. Y. City

Garvin Machine Co., 137 Varick, New York
Girard Machine Works (Inc.), (Automatic &
Special), 2616 Girard av, Phila., Pa.

GISHOLT MACHINE CO. (Turret
Lathes, Vertical & Horizontal Boring Mills
& Tool Grinders), Madison, Wis. (See adv.
index & branch offices, end of book)

Globe Machine & Stamping Co. (Machinery &
Parts), Cleveland, O.

Gould & Eberhardt, Newark, N. J.
Grimes, C. D. Machine Wks., Dayton, O.

Griswold, Geo. M., 187 St. John, New Haven,
Conn.

Harrington, Edwin Son & Co. (Inc.), 17th &
Callowhill, Phila., Pa.

Hartz, Henry V. & Co., Cleveland, O.
HEARTLEY MACHINE, VARIETY

Iron & Tool Works, Toledo, O. (See adv.
index, end of book)

Hoefler Mfg. Co., Freeport, Ill.

Hogg, Geo. A. Iron & Steel Foundry Co. (for
Rolling Mills, etc.), 24th & A. V. R'y, Pitts-
burg, Pa.

Houchin & Huber, 35 53d, Brooklyn, N. Y.
Hurd & Haggin (Automatic Machinery & Experi-
mental Work & Models), 316 Hudson, New
York

Jonson's, Julius, Sons, 65 Hudson, Jersey City,
N. J.

Keagy & Lear Machine Co., Coshocton, O.
Kent Machine Works, 248 Plymouth, Brooklyn,
N. Y.

Kilby Mfg. Co. (Heavy), Cleveland, O.
Langelier Mfg. Co., 67 Clifford, Providence, R. I.

Leader Mfg. Co., Decatur, Ill.
Lefler, Chas. & Co. (Experimental), 63 Clymer,
Brooklyn, N. Y.

McCarthy Bros. & Ford (Electrical), Buffalo,
N. Y.

Manahan, J. Archibald, 1907 Park av. New York
Manville Bros. Co., Waterbury, Conn.

Montague Iron Works, Montague, Mich.
Morris, I. P. Co. (Heavy), Beach & Ball,
Phila., Pa.

Morris, P. Hollingsworth (Heavy, Hydraulic &
High Speed, etc.), 1501 S Front, Phila., Pa.

MOSSBERG, FRANK CO. (Light Ma-
chinery & Tools), Attleboro, Mass. (See adv.
index, end of book)

Mossherg Wrench Co., Central Falls, R. I.
National Automatic Tool Co., Dayton, O.

National Machine Co., Hartford, Conn.
Newbold, R. S. & Son Co., Norristown, Pa.

NIAGARA MACHINE & TOOL WKS.,
Buffalo, N. Y. (See adv. index, end of
book)

Nilson, A. H. Machine Co., Bridgeport, Conn.
Niles-Bement-Pond Co., 111 B'way, New York

Norton-Jones Machine Tool Works, Plainville,
Conn.

Nutting, F. J. (Machinery, Tools, etc.), Day-
ton, O.

Pacific Iron Works (Inc.), Bridgeport, Conn.
Phila., Roll & Machine Co., S 23d & Wash'n av,
Phila., Pa.

Poole, J. Morton Co., Wilmington, Del.
Poole Engineering & Machine Co., Woodberry
Station, Baltimore, Md.

Portland Co., Portland, Me.
Pratt & Whitney Co., Hartford, Conn.

Pringle & Brodie Machinery Co., 277 S Canal,
Chicago

Queen City Engineering Co., 49 Illinois, Buf-
falo, N. Y.

Richard Mfg. Co. (For Tubing, Sheet Metal &
Wire & Rod), Bloomsburg, Pa.

Rittenhouse, Frank, Norristown, Pa.
Rosedale Foundry & Machine Co. (Heavy Roll-
ing Mill, etc.), Allegheny, Pa.

Ross Mfg. Co. (Tools, Dies, Hardware Special-
ties, etc.), 80 Seneca, Cleveland, O.

Rowland Machine Co., New Haven, Conn.
Royersford Foundry & Machine Co., Royersford,
Pa.

RUSSEL WHEEL & FOUNDRY CO.,
Detroit, Mich. (See adv. index, end of
book)

Salem Iron Works (Inc.), (Also Experimental,
Including Details, Drawings, etc.), Winston-
Salem, N. C.

Schutte & Koerting Co., 1251 N 12th, Phila.,
Pa.

Sellers, Wm. & Co., 1600 Hamilton, Phila., Pa.
Shawver Co., Springfield, O.

SHUSTER, F. B. CO., New Haven,
Conn. (See adv. for particulars regarding
the manufacture of all kinds of special
machinery)

Simonds Mfg. Co., Pittsburg, Pa.
Superior Tool & Supply Co., 500 E. Front, Cin-
cinnati, O.

Taylor-Wilson Mfg. Co., McKees Rocks, Pa.
Thurston Mfg. Co., Providence, R. I.

Tod, Wm. Co. (Hydraulic & Special), Youngs-
town, O.

Torrington Mfg. Co. (Dies & Tools), Torrington,
Conn.

Trump Bros. Machine Co. (Light), Wilmington,
Del.

United Engineering & Foundry Co. (For Rolling
Mills & Tube Mills), Farmers' Bank bldg,
Pittsburg, Pa.

V. & O. Press Co., Glendale Station, L. I.,
N. Y.

WARSAW ELEVATOR CO., Warsaw,
N. Y., & Erie Co. Bk. bldg, Buffalo, N. Y.
(See adv. index and branch offices, end of
book)

Waterbury Farrel Foundry & Machine Co.,
Waterbury, Conn.

Webster & Perks Tool Co., Springfield, O.
Wellman Sole Cutting Machine Co. (Automatic
Machinery Designed & Constructed), Med-
ford, Mass.

Wetherill Bros. Machine Co., Chester, Pa.
Williams, White & Co., Moline, Ill.

Wilson, W. A. Machine Co., Rochester, N. Y.
Wold, Torris & Co. (for Sheet Metals), 66 N
Jefferson, Chicago, Ill.

York Electric & Machine Co., York, Pa.

Spike Machinery

American Machinery Co., Willoughby, O.
National Machinery Co. (Hand Feed, etc.), Tif-
Pittsburg Mfg. Co., Pittsburg, Pa. fin, O.

Spindle Carving Machines

Porter, C. O. & A. D., Grand Rapids, Mich.

Splitting Machines

(See also Leather Splitting Machines.)

Long & Allstatter Co. (& Cross-Cutting Shears
for Plate & Round or Flat Bar Iron or
Steel, Belt, Motor or Steel Driven), Hamil-
ton, O.

Spoke Machinery

(See Hub, Spoke & Rim Machinery.)

Spool Stranding Machines

AITON MACHINE CO., 126 Liberty
New York. (See adv. index, end of book)

Spool Stranding & Armoring Machines

AITON MACHINE CO., 126 Liberty,
New York. (See adv. index, end of book)

Spool & Bobbin Machinery

Cole Mfg. Co., Lakeport, N. H.
DEFIANCE MACHINE WORKS, De-
fiance, O. (See adv. index, end of book)

Goodspeed Machine Co., Winchendon, Mass.
Kline, Lewis T. (General Line), Alpena, Mich.

Wurkland, J. W. Barton, Vt.

Spoon & Fork Machinery

BLISS, E. W. CO., 19 Adams, Brook-
lyn, N. Y. (See adv. index, end of book)

Spraying Machines

(See also Paint Spraying Machines; also Pumps,
Spray)

Dayton Supply Co. ("Nixon-Climax," for Lawn
& Field), Dayton, O.

Eureka Pneumatic Spray Co. (Pneumatic), 21
Decatur, Brooklyn, N. Y.

Field Force Pump Co. (Hand & Horse Power),
Elmira, N. Y.

Hook Mfg. Co. (Field & Orchard), Hudson,
Mich.

Hurst, H. L. Mfg. Co., Canton, O.

Wallace Machinery Co. ("Wallace" Field; "Wal-
lace Peerless," Gasoline Engine Power;
"Wallace," Orchard); Champaign, Ill.

Spring Bed Machinery

Hoefler Mfg. Co., Freeport, Ill.
Houchin & Huber, 39 53d, B'klyn, N. Y.

Ivens, Wm. H. Sons Co., Trenton, N. J.
Wells, Frank, Kenosha, Wis.

Spring Coiling Machines

American Can Co. ("Rudolph & Kummel"), 135
Adams, Chicago, Ill.

Baird Machine Co. (Automatic), Oakville, Conn.
Blake & Johnson, Waterbury, Conn.

Coulter & McKenzie Machine Co., Bridgeport,
Conn.

Evans', Jno. Sons (Light & Heavy), 13th &
Buttonwood, Phila., Pa.

Garvin Machine Co., 137 Varick, New York.
Hoefler Mfg. Co. (Automatic, Bed & Furniture
Spring), Freeport, Ill.

Pratt & Whitney Co., Hartford, Conn.
SHUSTER, F. B. CO. (Wire), New
Haven, Conn. (See adv. index, end of book)

Spring Knotting Machines

Hoefler Mfg. Co., Freeport, Ill.

Sprue Cutting Machines

(See Cutters, Sprue, Foot & Power)

Stair Routing Machines

Smith & Phillips Mfg. Co., 269 Desplaines, Chi-
cago, Ill.

Stamping Machines (Adjustable)

BLISS, E. W. CO., 19 Adams, Brook-
lyn, N. Y. (See adv. index, end of book)

Dewes, A., 249 Centre, New York
Smith, Ira B. (for Stamping Name on Spoons
& Metal), Bristol, Conn.

Staple Machines

Acme Staple Co., 500 N 12th, Phila., Pa.
Baird Machine Co., Oakville, Conn.

Bates Machine Co., Joliet, Ill.
Hoefler Mfg. Co., Freeport, Ill.

Nilson, A. H. Machine Co. (Automatic), Bridge-
port, Conn.

SHUSTER, F. B. CO. (Shear &
Barbed Point, Automatic), New Haven,
Conn. (See adv. index, end of book)

Special Machinery Co. (Special Automatic),
Bridgeport, Conn.

Stapling Machines

(See Wire Stapling Machinery)

Stimpson, Edwin B. & Sons, 31 Spruce, N. Y.

Starch Factory Machinery

Kaestner & Co. (Inc.), 241 S Jefferson, Chica-
go, Ill.

Nordyke & Marmon Co., Indianapolis, Ind.
Remmers, B. & Sons (Consulting & Construct-
ing Engineers, Complete Equipments),
Bourse hldg, Phila., Pa.

SCHULE, F. H. CO., 27 Thames, New
York (See adv. index, end of book)

Straub Machinery Co., 1956 W 6th, Cincin-
nati, O.

Static Electric Machines

Ajax Conductor & Mfg. Co., 269-271 So. Des-
plaines, Chicago, Ill.

Birtman, C. F. Co., 158 Lake, Chicago, Ill.
Dodd & Struthers, Des Moines, Ia.

Electro-Therapeutic Mfg. Co., Indianapolis,
Ind.

Engeln, H. P. & Co., 414 Prospect, S. E.,
Cleveland, O.

Harvard Electric Co., 60 W. Van Buren, Chi-
cago, Ill.

Knott, L. M. Apparatus Co., 15 Harcourt, Bos-
ton, Mass.

McElliott, D. P., 37 State, Chicago, Ill.

McIntosh Battery & Optical Co., 39 W Randolph, Chicago, Ill.
NATIONAL CABLE & MFG. CO., Niles, Mich., & 116 Lake, Chicago, Ill. (See adv. index, end of book)
QUEEN & CO. (Inc.), n. w. c 8th & Arch, Phila., Pa. (See adv. index, end of book)
 Swett & Lewis Co., 657 Wash'n, Boston, Mass.
 Van Houten & Tenbroeck ("Norton"), 300 4th av, N. Y.
 Wagner, R. V. & Co., 308 Dearborn, Chicago, Ill.
 Walte & Bartlett Mfg. Co. ("Ranney"), 217 E 23d, N. Y.

Stave Jointing Machines

Mack & Co., Rochester, N. Y.

Stave Sawing Machines

American Sawmill Machinery Co. ("American"), 114 Liberty, New York, & Hackettstown, N. J.

Stave & Heading Machinery

(See Barrel, Keg, Stave & Heading Machinery.)

Staybolt Threading Machines

Acme Machinery Co., Cleveland, O.
 Modern Tool Co., Erie, Pa.

Staying Machines (Automatic)

National Metal Edge Box Co. (for Setting up Paper Boxes with Metal Stay), 8th & Willow, Philadelphia, Pa.

Stearine Machinery

Blettner, Jos. B. & Co., 1976 Central av, Cincinnati, O.
 Brecht, B. S. Co. (Oleo Stearine), St. Louis, Mo., & 102 Pearl, New York

Stencil Cutting Machines

American Diagraph Co., 11 N 2d, St. Louis, Mo.
 Bradley Stencil Machine Co., St. Louis, Mo.
 Diagraph Co., 3d c Chouteau av, St. Louis, Mo.
 Gibbs-Brower Co. (Elliott), 150 Nassau, New York
 New York Stencil Works ("National"), 100 Nassau, New York
 Roovers Mfg. Co., 170 B'way, New York

Stereoscopic Machines

Rosenfield Mfg. Co. ("Victrola," Automatic), 585 Hudson, New York

Stock Sizing Machines

GRAMMES, L. F. & SONS (for Small Wooden Boxes, etc.), Allentown, Pa. (See adv. index, end of book)

Stone Channeling Machines

INGERSOLL-RAND CO. (Steam or Alr, Bar, Track & Undercutting), 11 B'way, New York. (See adv. index & branch offices, end of book)
 Interstate Engineering Co., Bedford, O.

Lord, Bowler & Co., 1004 Center av., Cleveland, O.
NEW ALBANY MFG. CO., New Albany, Ind.
SHAW, WILLIS (New & Second Hand), 171 La Salle, Chicago, Ill. (See adv. index, end of book)
SULLIVAN MACHINERY CO., Rail- way Exchange bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
 Steam Stone Cutter Co. ("Wardwell" Single & Double Gang, etc.), Rutland, Vt.

Stone Channelling Machines (Electric Air)

INGERSOLL-RAND CO., 11 B'way, New York. (See adv. index & branch offices, end of book)

Stone Crushing Machinery

(See Rock & Ore Crushers)

Stone Cutting Machines

Gilmour, J., 99 Nassau, New York
 Lincoln Iron Works, Rutland, Vt.

Stone Gadder or Drilling Machines

INGERSOLL-RAND CO., 11 B'way, New York. (See adv. index & branch offices, end of book)
 Steam Stone Cutter Co. ("Standard" for Quarrying Stone), Rutland, Vt.

Stone Gang Sawing Machines

Hinds, Thomas, Malone, N. Y.
 Lincoln Iron Works ("Merriman" Screw Feed, etc.), Rutland, Vt.
 Lord, Bowler & Co., 1004 Center av., Cleveland, O.
NEW ALBANY MFG. CO., New Albany, Ind.
STONE WORKING MACHINE CO. "Thomson" Patent Parallel Motion Gang & Rip Saw, 43 Wall, New York. (See adv. below)

Stone Planing Machinery

(See Planers, Stone)

Stone Polishing Machinery

Badger Bros., Quincy, Mass.
 Concord Axle Co. ("Jenny Lind"), Penacook, Easton Foundry & Machine Co., Easton, Pa.
HARRISON SUPPLY CO., 5 & 7 Dor- chester av, Extension, Boston, Mass. (See adv. index, end of book)
 Hinds, Thos., Malone, N. Y.
INGERSOLL-RAND CO., 11 B'way, New York. (See adv. index & branch offices, end of book)
 Lane, W. A. ("Granite City"), Barre, Vt.
 Meyers, W. F. (Marble Polishing), 14th & Vernon av, L. I. City, N. Y.
 Olsen, Tinlus & Co., 500 N. 12th, Phila., Pa.
 Patch, F. R. Mfg. Co., Rutland, Vt.
 St. Cloud Iron Works (Jenny Lind & Columbo Pollshers), St. Cloud, Minn.
 Smith, Whitcomb & Cook Co., Barre, Vt.
 Whitcomb Bros. (Granite), Barre, Vt.
 Wright, M. & Son (Est. of), Montpelier, Vt.

Stone Sawing Machinery

Anderson, Geo. & Co., 420 Ogden, Newark, N. J.
 Beatty, M. & Sons, Welland, Ontario, Canada
DALLETT, THOS. H. CO. (Pneumat- ic), York & Sedgley av, Phila., Pa. (See adv. index, end of book)
 Frenier, J. H. & Son, Cleveland av nr Oak, Rutland, Vt.
 Gilmour, J., 99 Nassau, N. Y.
 Gordon Fdry. & Mach. Co., St. Joseph, Mo.
 Hawley, E. J. & C. H., Manchester, Vt.
 Hinds, Thos., Malone, N. Y.
 Jamison-Combe Iron Works, St. Joseph, Mo.
 Lincoln Iron Works, Rutland, Vt.
 Lord, Bowler & Co. (Rubbing Beds, Gang Saws, etc.), 1004 Center av., Cleveland, O.
NEW ALBANY MFG. CO., New Albany, Ind.
 Patch, F. R. Mfg. Co., Rutland, Vt.
 Pattin Bros. Co., Marietta, O.
 St. Cloud Iron Works, St. Cloud, Minn.
 Seward & Co., Bloomington, Ind.
STONE WORKING MACHINE CO. (Gang Sawing), 43 Wall, New York. (See adv. below)
 United States Rapid-Fire Gun & Power Co., Derby, Conn.
 Walton, P. M., 1023 Gtn. av, Phila., Pa.

Stone Sifting Machines

Clark & Mills Electric Co., 543 Boylston, Boston, & Cambridge, Mass.

Stone Surfacing Machines

(See Pneumatic Stone Surfacing Machines)

Stone Working Machinery

Atlanta Machine Works (for Marble), 1 King, Atlanta, Ga.
 Birmingham Iron Foundry (Stone Planers, Rubbing Beds, etc.), Derby, Conn., & August Johnson, 11 B'way, New York
DALLETT, THOS. H. CO. (Pneumat- ic), York & Sedgley av, Phila., Pa. (See adv. index, end of book)
 Farrel Foundry & Machine Co. (Planers, Headers, etc.), Ansonia, Conn.
FLORY, S. MFG. CO., Bangor, Pa. (See adv. index, end of book)
 Gilmour, J., 99 Nassau, New York
 Hawley, E. J. & C. H., Manchester, Vt.
INGERSOLL-RAND CO., 11 B'way, New York. (See adv. index & branch offices, end of book)
 Jamison-Combe Iron Works, St. Joseph, Mo.
 Lincoln Iron Works, Rutland, Vt.
NEW ALBANY MFG. CO., New Albany, Ind.
 Patch, F. R. Mfg. Co., Rutland, Vt.
 Seward & Co., Bloomington, Ind.
SHAW, WILLIS (New & Second Hand), 171 La Salle, Chicago. (See adv. index, end of book)
 Smith, Whitcomb & Cook Co., Barre, Vt.
STONE-WORKING MACHINE CO. 43 Wall, New York. (See adv. below)
 Russell & Erwin Mfg. Co., New Britain, Conn.
 United States Rapid-Fire Gun & Power Co., Derby, Conn.

Straightening Machines

(See Shaft Straightening Machines; also Wire Cutting & Straightening Machines)

STONE-WORKING MACHINE CO.

PARALLEL MOTION GANG SAWS
 TOOLING TOOLS FOR STONE PLANERS } Patented.

41-43 Wall Street, New York City.

Straightening & Cutting Machines (Strip Metal)

NIAGARA MACHINE & TOOL WKS., Buffalo, N. Y. (See adv. index, end of book)

Stranding Machines

AITON MACHINE CO., 126 Liberty, New York. Works: Harrison, N. J. (See adv. index, end of book)

Strawboard Lining Machines

Hobbs Mfg. Co., Worcester, Mass.

Street Flushing Machines

Sanitary Street Flushing Machine Co., Chemical bldg, St. Louis, Mo.

Street Railway Sweeping Machines

(See also Plows, Snow)

Brill, J. G. Co., 62d & Woodland av. Phila., Pa.
Consolidated Car Fender Co., 10 E 23d, New York. Factory, Providence, R. I.
Dorner Mfg. Co., Monadnock bldg, Chicago, Ill.
Indiana Road Machine Co., Fort Wayne, Ind.
McGuire-Cummings Mfg. Co., 122 N Sangamon, Chicago, Ill.
Smith & Wallace (Electric), Woburn, Mass.

Street Sweeping Machines

Abbot, Downing Co., Concord, N. H.
ACME ROAD MACHINERY CO., Frankfort, N. Y. (See adv. index, end of book)

Austin Mfg. Co. (Steel, etc.), Manhattan bldg, Chicago, Ill. Works, Harvey, Ill.

BARTLETT, C. O. & SNOW CO., French nr Columbus, Cleveland, O. (See adv. index, end of book)

Campbell, P. F., 55 Laurel, Phila., Pa.
Good Roads Machine Mfg. Co., Kennett Square, Pa.

Greene Mfg. Co. (Hand), Springfield, O.
Hyass, Chas., 509 E 18th, New York
Kelly, O. S. Co. (Pick-up), Springfield, O.
Kisinger-Ison Co., 466 Pioneer, Cincinnati, O.
Monarch Road Roller Co. ("Monarch"), Groton, N. Y.

Sanitary Street Sweeping Co. ("Pick-up"), 504 Virginia av, S. E., Washington, D. C.
Strain, J. H. ("Improved Barnard Castle"), 12 Elm, New York

STROUD, E. H. & CO., 36 La Salle, Chicago, Ill. (See adv. index, end of book)

Studebaker Bros. Mfg. Co., South Bend, Ind.
Walker, H. B. ("Iron Clad"), Tarrytown, N. Y.
Western Wheeled Scraper Co., Aurora, Ill.

Striking Machines

Herschell-Spillman Co. (For Parks & Pleasure Grounds), North Tonawanda, N. Y.

Stucco Machinery

BARTLETT, C. O. & SNOW CO., French, Cleveland, O. (See adv. index, end of book)

Butterworth & Lowe (Inc.), Grand Rapids, Mich.
Des Moines Mfg. & Supply Co., 121 E. Court av, Des Moines, Ia.

Ehram, J. B. & Sons Mfg. Co., Enterprise, Kan.

Sugar Machinery

(All Machinery & Appliances for the manufacture of Beet & Cane Sugar will be found under the heading "Sugar Machinery," followed by sub-classifications in the letter "S." For page number see Index of Contents.)

Suppository Machines

Colton, Arthur (Cold Compressed), Detroit, Mich.
Stokes, F. J. Machine Co., Phila., Pa.

Surface Grinding & Polishing Machines

Diamond Machine Co., Providence, R. I.

Suspended or Cane Weighing Machines

Avery Scale Co. ("Avery," for Foundries, Railways, Docks, etc.), North Milwaukee, Wis.

Swaging Machines

Baldwin, Tuthill & Bolton, Grand Rapids, Mich.
BLISS, E. W. CO. (for Sheet Metal), 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)

Excelsior Needle Co. (The Dayton), Torrington, Conn.

Iroquois Machine Co., Providence, R. I., & 150 Nassau, New York
Langeier Mfg. Co. (Cold Swaging, Hammering & Reducing Machines), 67 Clifford, Providence, R. I.

Standard Machinery Co. (Rotary), Providence, R. I.
Swaine, F. J. Co., St. Louis, Mo.

Thurston Mfg. Co., Providence, R. I.
Waterbury Farrel Foundry & Mach. Co., Waterbury, Conn.

Waterbury Machine Co., Waterbury, Conn.

Sweeping Machines (Vacuum System)

GENERAL COMPRESSED AIR & VACUUM MACHINERY CO., 4469 Olive, St. Louis, Mo. (See adv. index, end of book)

VACUUM CLEANER CO., 427 5th av, New York. (See adv. index, end of book)

Syrup Filling Machines (Canners')

SPRAGUE CANNING MACHINERY CO., 42 River, Chicago, Ill. (See adv. index, end of book)

Tablet Machines

Colton, Arthur, 184 Brush, Detroit, Mich.
Day, J. H. Co., 1144 Harrison av, Cincinnati, Ohio

Hall, Albert R., Indianapolis, Ind.
Hess & Barker ("Richard's" Universal Automatic), 605 Sansom, Phila., Pa.

Mulford, H. K. Co., 412 S 13th, Phila., Pa.
Stokes, F. J. Machine Co., 9th & Thompson, Phila., Pa.

Tabulating Machines

Tabulating Machine Co. ("Hollerith"), 1054 31st, Washington, D. C.

Tack Machinery

Kimball Bros. & Sprague, Brockton, Mass.
M'GIEHAN, C. H. & CO. (Double Pointed), 11 B'way, New York. (See adv. index, end of book)

Miller's, H. J. Sons, Bridgewater, Mass.
Perkins, Henry Co. ("Improved Perkins"), Bridgewater, Mass.

Rittenhouse, C. & Sons, Norristown, Pa.

Tack Separating Machines

Seymour & Whitlock, Newark, N. J.

Tag Machinery

American Machine Co. ("Denny"), Wilmington, Del.
Rittenhouse, Frank, Norristown, Pa.

Tag Stringing Machines

Hobbs Mfg. Co., Worcester, Mass.

Tailors' Pressing Machines

Lufkin, Jno. W., 38 Chardon, Boston, Mass.
Timmis & Clissold, Bound Brook, N. J.

Talking Machines

American Graphophone Co., Tribune bldg, N. Y. City, Works, Bridgeport, Conn.
American Phonograph Co., 106 Woodward av, Detroit, Mich.

Blackman Talking Machine Co., 97 Chambers, N. Y.
Columbia Phonograph Co., Tribune bldg, Edison Phonograph Works, Orange, N. J.

Knight Cycle Co., 211 N. 12th, St. Louis, Mo.

National Phonograph Company, Orange, N. J.
Penn Phonograph Co., 17 S 9th, Phila., Pa.
Sterling Debenture Co., 56 Wall, New York
Talk-O-Phone Co., Toledo, O.
Universal Talking Machine Co., Newark, N. J.
Victor Talking Machine Co., Camden, N. J.

Tan Bark Packing Machines

Eureka Bark Mill Co., Lancaster

Tannery Machinery

Baker, G. W. & Co., Wilmington, Del.

Desuris, John, Co., Lowell, Mass.

Du Bois Iron Works, Du Bois, Pa.

Barry & Zecher Co., Lancaster, Pa.

Hemingway, John & Son, Lynn, Mass.

Hide & Leather Working Machinery Co., Milwaukee, Wis.

Holmes, Chas. Machine Co. (Tan Presses, Scouring Machines, etc.), 299 Marginal, E. Boston, Mass.

Horn, Wm. H. & Bro. (Bark Mills, Splitting Machines & Tanners' & Curriers' Tools), 451 N 3d, Phila., Pa.

Hutchinson Hide & Leather Machine Co. (Unhairing, Fleshing & Working-Out Machines, etc.), Winchester, Mass.

Moore Leather Machinery Co., Peabody, Mass.

Munkwitz, Edw. H. Co. ("Leidgen" Unhairing Machines), Milwaukee, Wis.

Myrick Machine Co., Olean, N. Y.

Shapley & Wells, Binghamton, N. Y.

Seymour & Whitlock (Equipments), Newark, N. J.

Slocumb, F. F. & Co., Wilmington, Del.

Smith's, Jas. E. Sons Co. (Steam Jacket Kettles, Stuffing Mixers, Rendering Tanks, etc.), Buffalo, N. Y.

Stauffer, Geo. E., Stroudsburg, Pa.

Thornburgh, H. L. & Co., 245 S Jefferson, Chicago, Ill.

Turner Tanning Machine Co., Peabody, Mass.

Whitney Machine Co. (Unhairing, Fleshing & Working-Out Machines), Winchester, Mass.

Taper Rolling Machines

Coulter & McKenzie Machine Co., Bridgeport, Conn.

Waterbury Farrel Fdry. & Machine Co., Waterbury, Conn.

Williams, White & Co. (For Tapering or Forging Shapes), Moline, Ill.

Taper Threading Machines

Acme Machinery Co., Cleveland, O.

Taper Tube Spinning Machines

Langlier Mfg. Co., Providence, R. I.

Tapping Machines

(See also Nut Tapping Machines; also Tapping Machines for Gas & Water Mains.)

Baker Bros., Toledo, O.
Beaman & Smith Co. (Tapping Attachments, Drill Press, "Safety Friction Type"), Providence, R. I.

Burke Machinery Co. (for 3/16 inch Tapping, etc.), Cleveland, O.

Costilo, Jas. E., 60 Centre, New York
Garvin Machine Co. (Automatic, etc.), 137 Varick, New York

Grant Mfg. & Machine Co. (Automatic), Bridgeport, Conn.

Hartford Machine Screw Co., Hartford, Conn.
Hub Machine & Tool Co. ("Acme," Hand), 621 Cherry, Phila., Pa.

Hubbell, Harvey, Bridgeport, Conn.
National Machine Co. (Horizontal), Hartford, Conn.

Manville, E. J. Machine Co., Waterbury, Conn.
Munchee Machine & Tool Co. (For Flanges, Fittings, etc.), Detroit, Mich.

Newton Machine Tool Works (Inc.), 2347 Vine, Phila., Pa.

Niles-Bement-Pond Co., 111 B'way, New York
Pratt & Whitney Co., Hartford, Conn.

Prentice Bros. Co., Worcester, Mass.
Quint, A. D., Hartford, Conn.
Slate, Dwight, Machine Co., Hartford, Conn.

Sloan & Chase Mfg. Co. (Ltd.) (Bench), 1110 Harrison av, Newark, N. J.
United Engineering & Foundry Co. (for Tube Mills), Farmers' Bank bldg, Pittsburg, Pa.
Western Automatic Machine Screw Co., Elyria, O.

Tapping Machines (Dry Pipe)

Mueller, H. Mfg. Co., Decatur, Ill.

Tapping Machines (Gas & Water Main)

Boust, A. C., Northumberland, Pa.
 Carr, Chas., 7 Exchange pl, Boston, Mass.
 Fisher, Governor Co., Marshalltown, Iowa.
 Hardesty, J. M. & Son, Tamaqua, Pa.
 Lennox Machine Co. (for Tapping Water Mains Under Pressure), Marshalltown, Ia.
 Mueller, H. Mfg. Co., Decatur, Ill.
 Murchey Machine & Tool Co., Detroit, Mich.
 Saunders, D. Sons, Yonkers, N. Y.
 Smith, Anthony P. Mfg. Co., Newark, N. J.
 Walworth Mfg. Co., 132 Federal, Boston.
 Water Works Equipment Co., 180 B'way, New York

Tapping Machines (Horizontal)

Pratt & Whitney Co., Hartford, Conn.

Tapping Machines (Nut)

(See Nut Tapping Machines.)

Tapping Machines (Pipe-Socket)

Harrington, Edwin, Son & Co., Phila., Pa.
 Saunderson's Sons, Yonkers, N. Y.

Tapping & Reaming Machines (Pneumatic)

(See Pneumatic Hammers)

Tapping & Reaming Machines (Portable)

Chicago Flexible Shaft Co., La Salle av & Ontario, Chicago, Ill., & 97 Chambers, New York
 Stow Flexible Shaft Co., N 26th & Buttonwood, Philadelphia, Pa.
 Stow Mfg. Co., Binghamton, N. Y.

Telephone Core Machines

AITON MACHINE CO. (for Telephone & Telegraph, etc., Parts), 126 Liberty, New York. Works: Harrison, N. J. (See adv. dex, end of book)

Tenoning Machines

(See Wood Working Machines.)

Test Hole Drilling Machines

Loomis Machine Co. (For Foundations, Test Holes, Blast Holes, etc.), Tiffin, O.

Testing Machines

Buffalo Scales Co., Buffalo, N. Y.
 Fairbanks Co., 186 Lafayette, New York
 Olsen, Tinius & Co., 500 N 12th, Phila., Pa.
 Richle Bros. Testing Machine Co., 1424 N 9th, Phila., Pa.
WHITING FOUNDRY EQUIPMENT
 Co. (Axle, Draw-Bar, etc.), Harvey, Ill.
 (See adv. index & branch offices, end of book)

Testing Machines, Axle, Draw-Bar, Etc.

WHITING FOUNDRY EQUIPMENT
 Co., Harvey, Ill. (See adv. index & branch offices, end of book)

Testing Machines (Brick)

Strait, H. N. Mfg. Co., Kansas City, Mo.

Testing Machines (Can)

Ayars Machine Co., Salem, N. J.
 Benedict, L. ("Leiger" Automatic Body Forming & Soldering Machines), 128 S Clinton, Chicago, Ill.

McDonald Machine Co. (Automatic), 40th & Wentworth av, Chicago, Ill.
 Slaysman & Co., 718 E Pratt, Baltimore, Md.
SPRAGUE CANNING MACHINERY
 Co., 42 River, Chicago. (See adv. index, end of book)

Testing Machines (Car Wheel)

WHITING FOUNDRY EQUIPMENT
 Co., Harvey, Ill. (See adv. index & branch offices, end of book)

Testing Machines (Cement)

Clark & Mills Electric Co. (Also for Testing Stone & Road Materials), 543 Boylston, Boston, Mass.
 Elmer & Amend, 205 3d av., New York
 Fairbanks Co., 186 Lafayette, New York
 International Instrument Co. (Also for Testing Stone & Road Materials), 23 Church, Cambridge, Mass.
 Olsen, Tinius & Co., 500 N. 12th, Phila., Pa.
 Richle Bros. Testing Machine Co., 1424 N. 9th, Phila., Pa.

Testing Machines (Chain)

Olsen, Tinius & Co., 500 N. 12th, Phila., Pa.
 Turner, Vaughn & Taylor Co., Cuyahoga Falls, O.

Testing Machines (Emery)

Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Philadelphia, Pa.

Testing Machines (Hydraulic)

Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Philadelphia, Pa.

Testing Machines (Oil)

Olsen, Tinius & Co., 500 N. 12th, Phila., Pa.
 Pratt & Whitney Co. (The "Thurston"), Hartford, Conn.

Testing Machines (Pipe)

United Engineering & Foundry Co. (For 2 to 12-inch Pipe), Farmers' Bank Bldg., Pittsburgh, Pa.
 Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.
WATSON-STILLMAN CO., 26 Cortlandt, New York. (See adv. index, end of book)

Testing Machines (Power)

Perkins, B. F. & Son, Holyoke, Mass.

Testing Machines (Spring)

Evans', John Sons, 13th & Buttonwood, Philadelphia, Pa.

Testing Machines (Stone)

Clark & Mills Electric Co., 543 Boylston, Boston, Mass.
 International Instrument Co., 23 Church, Cambridge, Mass.

Testing Machines (Traction)

Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Philadelphia, Pa.

Testing Machines (Wire)

Coldwell-Wilcox Co., Newburgh, N. Y.
 Morgan Construction Co., Worcester, Mass.
 Olsen, Tinius & Co., 500 N. 12th, Phila., Pa.

Textile Machinery

(See Specific Article Wanted.)

Thread Cut-Off Machines

Morley Button Sewing Machine Co. (Automatic for Bars & Tacks in Shoes & Clothing), 68 Essex, Boston, Mass.

Thread Cutting Machines

Pratt & Whitney Co., Hartford, Conn.

Thread Rolling Machines

Acme Machinery Co. (Rotary), Cleveland, O.
 Blake & Johnson, Waterbury, Conn.
 Manville, E. J. Machine Co., Waterbury, Conn.
 Mt. Carmel Bolt Co. (Reciprocating), Mt. Carmel, Conn.
 Nilson, A. H. Machine Co. (Reciprocating), Bridgeport, Conn.
 Triumph Electric Co. (Reciprocating), Cincinnati, O.
 Waterbury Farrel Foundry & Machine Co. (Reciprocating), Waterbury, Conn.
 Waterbury Machine Co. (Reciprocating), Waterbury, Conn.

Thread Tool Grinding Machines

Slate, Dwight, Machine Co., Hartford, Conn.

Threading Machines (Sheet Metal)**BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)****Threshing Machinery**

(See Threshers.)

Thumbhole Cutting Machines

Chase Turbine Mfg. Co. ("Chase's" Automatic), Orange, Mass.
 Hobbs Mfg. Co. (For Paper Box Makers), Worcester, Mass.

Ticket Cancelling Machines

(See Cancelling Machines)

Tile Ditching Machines

Bennett, H. L. & Co., Westerville, O.
 Mill, Jas. B. (Traction), Deshler, O.
MUNICIPAL ENGINEERING & CONSTRUCTION CO., Railway Exchange bldg., Chicago, Ill., & 90 West, New York. (See adv. index, end of book)

Tile Facing Machines

Lincoln Iron Works, Rutland, Vt.

Tile Making Machinery

Crossley Mfg. Co., Trenton, N. J.
 Hetherington & Berner Co. (Encaustic, Ceramic), 19 W. South, Indianapolis, Ind.
 Hill, Jas. B. (Traction), Deshler, O.
 Michigan Brick & Tile Machine Co., Morenci, Mich.
 Raymond, C. W. Co., Dayton, O.

Tile Sizing Machines

Lincoln Iron Works, Rutland, Vt.

Timber Graining Machines

Berlin Machine Works, Beloit, Mich.
 Fay, J. A. & Egan Co., Front & John, Cincinnati, O.

Timber Preserving Machinery**ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)****Tin Foil Machinery**

Blake & Johnson, Waterbury, Conn.
 Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.

Tin Plate Lacquering & Varnishing Machines

Ohl, Geo. A. & Co. (For Coating Tin, Iron, Metal, Cardboard, etc.), 157 Oraton, Newark, N. J.

Tin Plate Mill Machinery & Construction

(See also Rolling Mill Machinery, etc.)

Aetna Foundry & Machine Co., Warren, O.
 American Furnace & Machine Co., Pittsburgh, Pa.
 American Roll & Foundry Co., Canton, O.

American Sheet & Tin Plate Co., Roll & Machine Works, Canton, O.
 Anderson Foundry & Machine Works (Pickling & Tinning Machines, Branners, Dusters, etc.), Anderson, Ind.
 Birdsboro Steel Foundry & Machine Co., Birdsboro, Pa.
 Braddock Machine & Mfg. Co., Braddock, Pa.
 Cincinnati Punch & Shear Co., 1416 Plum, Cincinnati, O.
FAWCUS MACHINE CO., Pittsburg, Pa. (See adv. index, end of book)
 Hogg, Geo. A. Iron & Steel Foundry Co., 24th & A. V. R'y, Pittsburg, Pa.
 Mesta Machine Co., Lewis blk, Pittsburg, Pa.
 Newhold, R. S. & Son Co., Norristown, Pa.
 Pennsylvania Engineering Works, New Castle, Pa.
 Phila. Roll & Machine Co., S 23d & Washington av, Phila., Pa.
 Poole Engineering & Machine Co., Woodberry Station, Baltimore, Md.
 Stevenson Co., Wellsville, O.
 United Engineering & Foundry Co. (Rolling Mill Machinery), Farmers' Bank bldg, Pittsburg, Pa.
 Swindell, Wm. C. Bro., Pittsburg, Pa.
 Vulcan Foundry & Machine Co., New Castle, Pa.
 West Penn Foundry & Machine Co., Avonmore, Pa.
 Wheeling Mold & Foundry Co., Wheeling, W. Va.

Tinners' Grooving Machines

Barber Mfg. Co., Ashtabula, O.

Tinners' Tools & Machinery

(See Sheet Metal Workers' Machines and Tools.)

Tinning Machinery

Union Foundry & Machine Co., 224 W Carson, Pittsburg, Pa.

Tipping Machines

Kester Electric Mfg. Co. (Improved Automatic), 251 S Jefferson, Chicago
 Chicago Solder Co. (Improved Automatic), 44 Union, Chicago, Ill.

Tire Applying Machines

Nelson & Le Noon, 88 W Monroe, Chicago, Ill.
 Ross Machine Mfg. Co. ("Linn"), Jamestown, N. Y.

Tire Bolting Machines

Nelson & LeMoon, 88 W Monroe, Chicago, Ill.
 Bentel & Margedant Co. (& Bolt Clipping), Hamilton, O.
 National Steam Pump Co. ("Reynolds"), Upper Sandusky, O.

Tire Drilling Machines

Reed, Francis, Co., Worcester Mass.

Tire Trueing Machines

Bentel & Margedant Co., Hamilton, O.

Tire Welding Machines

HEARTLEY MACHINE, VARIETY
 Iron & Tool Works, Toledo, O. (See adv. index, end of book)
 Kane & Roach, Syracuse, N. Y.
 Long & Allstatter Co., Hamilton, O.
 Williams, White & Co., Moline, Ill.

Tobacco Cutting Machines

Lehmann's, A. J. Machine Works, 1216 N Mascher, Phila., Pa.

Tobacco Farming Machinery

Ball, Mitchel & Co., Maysville, Ky.
 Belcher & Taylor Agricultural Tool Co. (Ridgers), Chicopee Falls, Mass.
 Cardwell Machine Co., Richmond, Va.
 Fuller & Johnson (Hoes), Madison, Wis.
 Iowa Farming Tool Co. (Hoes), Ft. Madison, Ia.
 Nagley Mfg. Co. (Spears), Lyons, N. Y.
 Phoenix Foundry & Mfg. Co. (Steamer & Tank Screws), Ripley, O.
 Rochester Agricultural Works (Scrap Cutter), Union Mfg. Co., Toledo, O.
 Rochester, N. Y.

Tobacco Hoeing Machines

Allen, S. L. & Co., 1017 Market, Phila., Pa.
 Belcher & Laylor Agr'l Tool Co., Chicopee Falls, Mass.
 Fuller & Johnson Mfg. Co., Madison, Wis.

Tobacco Knife Grinding Machines

Diamond Machine Co., Providence, R. I.

Tobacco Machinery

Adt, Jno. B. (Granulators, Separators, Cutters, Dryers, Coolers, Stem Rollers & Packers), 332 N Holliday, Baltimore, Md.
 Buckeye Iron & Brass Works (Cutting), Dayton, Ohio
 Cardwell Machine Co. (Granulators, Packers, Dyers, Cutters, Shapers or Moulds & Casing Machines), Richmond, Va.
 Erie Specialty Co., Erie, Pa.
 Ermold, Edw., 652 Hudson, New York
 Jewell Machine Wks., 305 Pearl, N. Y.
 Keyes, F. R. & Co., Binghamton, N. Y.
 Laidlaw-Dunn-Gordon Co., 211 W 4th, Cincinnati, O.
 McGowan, Jno. H. Co., 54 Central av, Cincinnati, O.
 Mayo, Hysore & Co., Richmond, Va.
 Miller, Dubrul & Peters Mfg. Co., 507 E Pearl, Cincinnati, O.
 Patton, J. & Co., Richmond, Va.
 Petersburg Iron Works Co., Petersburg, Va.
 Phila. Textile Machinery Co. (Automatic Dryers, Coolers, Orderers & Softeners, etc.), Titus, E. E., Petersburg, Va. Phila., Pa.
 Warwick Bros., Richmond, Va.
 Westbrooks, J. B. Foundry & Machine Co., Danville, Va.

Toilet Paper Machines

Dietz Machine Works (Slitting, Separating & Rewinding), 126 Fontain, Phila., Pa.

Toilet Pin Machinery

Baird Machine Co., Oakville, Conn.

Toilet Soap Machinery

Houchin & Huher, 35 53d, Brooklyn, N. Y.
 Rutschman, Oscar F., 426 Berks, Phila., Pa.
 Schule, F. H. Co., 27 Thames, New York

Tomato Machinery (Canners')

SPRAGUE CANNING MACHINERY
 Co., 42 River, Chicago, Ill. (See adv. index, end of book)

Tomato Transplanting Machines

SPRAGUE CANNING MACHINERY
 Co., 42 River, Chicago, Ill. (See adv. index, end of book)

Tool Grinding Machinery

(See Grinders, Plain Tool.)

Tow Mill Machinery

New Winona Mfg. Co. ("Diamond" for Coarse, Fine or Medium Tow), Winona, Minn.

Towing Machines

American Ship Windlass Co. (Automatic Steam), Providence, R. I.
 Chase Machine Co. (Automatic Steam), 111 Elm, Cleveland, O.

Trace Trimming Machines

Campbell-Bosworth Machinery Co. ("Boston" Automatic), Boston, Mass.

Traveling Bed Planing Machines

Chase Turbine Mfg. Co. (Planers, 24-in. Wide to 12-in. Thick), Orange, Mass.

Trench Machines

(See Sewer & Trench Excavating Machines.)

Tripping Machines

Poole Engineering & Machine Co., Woodbury Station, Baltimore, Md.

Trolley Wheel Machines

Sutton, C. E. Co. (For Turning Grooves in Trolley Wheels, etc.), Toledo, O.

Trunk Machinery

Ohl, Geo. A. & Co. (Slat Machines for Staining Trunk Slats, etc.), 157 Oraton, Newark, N. J.
 Sutton, C. E. Co. (For Turning Grooves in Trolley Wheels, etc.), Toledo, O.
 Titus, E. E., Petersburg, Va.

Trunk Slat Staining & Varnishing Machines

Ohl, Geo. A. & Co., 157 Oraton, Newark, N. J.

Tub & Pail Machinery

Gerlach, Peter Co. (also for Churn, Ice Cream Freezer, Fish Kit, etc.), 1708 Columbus rd, Cleveland, O.
 Goodspeed Machiue Co., Winchendon, Mass.
 Humphrey Machine Co., Keene, N. H.

Tube Cutting Machines

Grant, Hugh, 62 Commonwealth av, Cleveland, O.

Tube Filling Machines

Ross, Chas. & Son Co. (for Paste, Oil & Cosmetics), 148 Classon av, Brooklyn, N. Y.

Tube Mill Machinery

(See Pipe & Tube Mill Machinery)

Tube Reducing Machines

Standard Machinery Co., Providence, R. I.

Tube Rolling Machinery

Toledo Machine & Tool Co., Toledo, O.

Tube Rolling & Cutting Machines (Paper)

Chicago Paper Tube & Can Co. ("Williams"), 20 N May, Chicago, Ill.

Tube Tapering Machines

Excelsior Needle Co., Torrington, Conn.

Turntable Machinery

FAIRBANKS, MORSE & CO., Frank-
 lin & Monroe, Chicago, Ill. (See adv. index & branch offices, end of book)

Turret Forming Machines

Brown & Sharpe Mfg. Co. (Automatic), Providence, R. I.

Twine Making Machinery

(See Cordage Machinery)

Type Setting & Type Distributing Machines

Brown, R. H. & Co., New Haven, Conn.
 Empire Machine Corporation, 203 B'way, N. Y.
 Lanston Monotype Machine Co. (Typesetting), 1 Madison av, New York
 Mergenthaler Linotype Co., Tribune bldg, New York
 National Compositype Co., Baltimore, Md.
 Unitype Co., 150 Sands, Brooklyn, N. Y.

Universal Grinding Machines

(See Grinders, Universal)

Unloading Machines (Freight, Portable)

Clark Conveyor Co., 71 B'way, New York

Upsetting & Forging Machines

Acme Machinery Co., Cleveland, O.
Ajax Mfg. Co. (Axle), Cleveland, O.
Fulton Iron & Engine Works, 128 Brush, Detroit, Mich.

National Machinery Co., Tiffin, O.
Niles-Bement-Pond Co., 111 B'way, New York
Pawtucket Mfg. Co., Pawtucket, R. I.
Williams, White & Co. ("Moline" Upsetting & Forging), Moline, Ill.

Valve Inserting Machines

Smith, A. P. Mfg. Co. ("French" & "Sherred"), Newark, N. J.

Valve Re-Seating Machines

Barnum, W. P. (The Standard), Fredonia, N. Y.
Draper Mfg. Co. (Facing Tools), Port Huron, Mich.

Franklin, Benj. ("Sterling"), Rochester, N. Y.
Hall, C. F., Syracuse, N. Y.
Howes, S. Co., Silver Creek, N. Y.
Huxley Mfg. Co. ("Huxley" Valve Refacing), Detroit, Mich.

Leavitt Machine Co. (the Morse & Dexter), Orange, Mass.

Long, Adam A., 13 Graves, Rochester, N. Y.
Quincy-Manchester-Sargent Co. (Valve Seat Facing), Old Colony bldg, Chicago, Ill., & 114 Liberty, New York

Tower, H. R. ("Wright & Rust"), Holyoke, Mass.

Underwood, H. B. & Co., 1025 Hamilton, Phila., Pa.

Valve Seat-Milling Machines

American Tool & Machine Co., 109 Beach, Boston, Mass.

Underwood, H. B. & Co., 1025 Hamilton, Phila., Pa.

Valve Seat Planing Machines

Niles-Bement-Pond Co., 111 B'way, New York
Quincy-Manchester-Sargent Co. (Portable & Rotary), Old Colony bldg, Chicago, Ill., & 114 Liberty, New York
Stow Flexible Shaft Co., N 26th & Buttonwood, Philadelphia, Pa.

Valve Wheel Machinery

Bradley, H. C. (For Wood Wheels), Bridgeport, Conn.

Vanning Machines

Power & Mining Machinery Co., 52 William, New York. Works: Cudahy, Wis.

Variety Moulding Machines

American Steam Pump Co., Battle Creek, Mich.
Bentel & Margedant Co., Hamilton, O.
Carey, W. W., Lowell, Mass.
Prybil, P., 506 W. 41st, New York

Variety Sawing Machines

Bentel & Margedant Co., Hamilton, O.
Cordesman, Rechlin Co., 25 Butler, Cincinnati, Ohio
Greaves, Klusman & Co., c Cook & Alfred, Cincinnati, O.
Root, B. M. Co., York, Pa.
Yerkes & Finan Woodworking Machine Co., St. Louis, Mo.

Varnish Makers' Machinery

Kent Machine Works, 250 Plymouth, Brooklyn, N. Y.
SCHULE, F. H., 27 Thames, New York. (See adv. index, end of book)

Varnishing Machines

Chambers Bros. Co., 52d bel. Lancaster av, Philadelphia, Pa.

Varnishing Machines for Rubber Mills

Birmingham Iron Foundry, Derby, Conn.

Vegetable Cutting Machines

Smith's, Jno. E. Sons, Buffalo, N. Y.

Vending Machines

Aerating Machine Mfg. Co., 853 B'way, New York

American Automatic Vending Machine Mfg. Co., Charlevoix, Mich.

American Automatic Co., 53 B'way, New York

Automatic Coin Machine Co. (Coin Operating), Rochester, N. Y.

Automatic Machine & Tool Co. (Coin Operating), 45 S Canal, Chicago, Ill.

Automatic Machine Co., 90 W B'way, New York

Automatic Sales Co. (Gum), Lansing, Mich.

Automatic Target Machine Co. (Target), 203 Fulton, New York

Automatic Vending Co., 240 W 23d, New York

Becker, P. A. (Collar Button), 45 De Kalb av, Brooklyn, N. Y.

Bennett & Co. (Cigar), Kalamazoo, Mich.

Caille Bros. Co. (Coin Operating), 1300 2d av, Detroit, Mich.

Caille Co. (Coin Operating & Slot), 206 Randolph, Detroit, Mich.

Cowper Mfg. Co. (Coin Operating, Slot, etc.), 166 S Clinton, Chicago, Ill.

Diamond Novelty Co., Syracuse, N. Y.

Great American Automatic Machine Co. (Automatic), Hoboken, N. J.

Griswold Mfg. Co. (Card, Gum, etc.), Rock Island, Ill.

Grover & Haskell (Slot), 381 Albany, Boston, Mass.

Iroquois Machine Co. (Coin Operating), 83 Sprague, Providence, R. I.

Lee-White Vending Machine Co., Brockport, N. Y.

Manhattan Automatic Merchandising Co. (Hot Peanut), 93 Wall, New York

Mills Novelty Co. (Candy, Cigar, Cigarette, Gum, Peanut, Package, etc., Coin Operating), 11 S Jefferson, Chicago, Ill.

Mitchell Mfg. Co., Portsmouth, O.

National Automatic Weighing Machine Co. (Coin Operating), 60 Murray, New York

National Photograph Machine Co. (Photograph), 85 Beaver, New York

National Vending Machine Co. (Coin Operating), 32 S Canal, Chicago, Ill.

National Vending Machine Co., Bethlehem, N. Y.

New York Coin Operated Machine Co. (Coin Operated), 23 E 20th, New York

New York Opera Glass Supply Co. (Opera Glasses), 133 William, New York

New York Vending Co. ("Doremus" Candy, Cigar, Gum, etc.), 346 B'way, New York

Pan-American Machine Co., 117 Pearl, New York

Pitton Novelty Co. (Ltd.) (Slot), 204 Mich. av, Detroit, Mich.

Public Sales Co., 289 Front, New York

Roovers Mfg. Co. (Name Plate, etc.), 170 B'way, New York

Rosenfield Mfg. Co. (Coin Operating, etc.), 585 Hudson, New York

Schultze Scale Co. (Coin Operating), San Francisco, Cal.

Sickling Mfg. Co. (Card Playing), 931 Freeman av, Cincinnati, O.

Standard Trading Co., 39 W 21st, New York

United Machine & Supply Co., 288 West, New York

U. S. Automatic Weighing Co. (Weighing Machines), 88 Walker, New York

United Supply & Machinery Co., Lynn, Mass.

Universal Vending Machine Co., 79 E 130th, New York

Up-To-Date Slot Machine Co., 60 Centre, New York

Victor Novelty Works, 14 Michigan, Chicago, Ill.

Voelkner & Reinke Mfg. Co., 123 W Woodbridge, Detroit, Mich.

Waddell Woodenware Works Co., Greenfield, O.

Watling Mfg. Co. (Coin Operating), 155 W Jackson, Chicago, Ill.

White Mfg. Co. (Commercial Commodity), Chicago Ridge, Ill.

Veneer Cutting Machines

Bentel & Margedant Co. (Rip & Cross Cut Saws), Hamilton, O.

Capital Machine Works, Indianapolis, Ind.

Carpenter, Thos. D., 93 Pearl, Brooklyn, N. Y.

Coe Mfg. Co. (Rotary), Painesville, O.

Frank Machinery Co., 214 Terrace, Buffalo, N. Y.

Hayes Machine Co. (Inc.), Kingston, N. Y.
Hubbard's, Norman Sons ("Rochow"), 265 Water, Brooklyn, N. Y.
Merritt Mfg. Co. (Rotary, a Six-Bearing Veneer Lathe & Direct Feed Automatic Veneer Clipper), Lockport, N. Y.
St. Joseph Iron Works (Veneer Lathes), St. Joseph, Mich.

Titus, Elmer E., Petersburg, Va.
Trevor Mfg. Co., Lockport, N. Y.
White-Blakeslee Mfg. Co., Birmingham, Ala.

Veneer Drying Machines

Coe Mfg. Co. (Automatic), Painesville, O.

Vermicelli Machinery

City Machine Co., 430 Prospect, N W, Cleveland, O.

Werner & Pfeleiderer, Saginaw, Mich.

Vinegar Machinery

Kaestner & Co. (Inc.), 241 S Jefferson, Chicago, Ill.

Voting Machines

Abbott Voting Machine Co., Hudson, Mich.
Bardwell Votometer Co., 17 Park Row, N. Y.
Davis Voting Machine Co., 15 Park Row, N. Y.
Grant Mfg. & Machine Co., Bridgeport, Conn.
Ross Voting Machine Co., Newport, Ky.
Triumph Voting Machine Co., Pittsfield, Mass.
U. S. Standard Voting Machine Co., Rochester, N. Y. Works, Jamestown, N. Y.

Wagon Builders' Machinery

(See Carriage Builders' Machinery.)

Wall Paper Machinery

Waldron, Jno. Co., New Brunswick, N. J.

Washer Cutting Machines

Krips-Mason Machine Co., 1636 N Hutchinson, Phila., Pa.

National Machinery Co., Tiffin, O.
Pawtucket Mfg. Co., Pawtucket, R. I.

Washer Making Machines

Krips-Mason Machine Co., 1636 N Hutchinson, Phila., Pa.

Washing Machines

(See Washing Machines in the Letter W.)

Waste Product Machinery for Packing Houses

Joslin, Schmidt & Co. (Glue Works, Soap Factories, etc.), Cincinnati, O.

Watch Case Machinery

Cavagnaro, Jno. J., 215 Centre, New York, N. Y.

Water-Proofing Paint Machines (Compressed Air)

STANDARD PNEUMATIC SPRAY CO., 500 5th av, New York. (See adv. index, end of book)

Wax Working Machines

Houchin & Huber, 35 53d, Brooklyn, N. Y.
SCHULE, F. H. CO., 27 Thames, New York. (See adv. index, end of book)

Weighing Machines (Automatic)

(See Automatic Weighing Machines)

*Weighing Machines for Filled Cans

SPRAGUE CANNING MACHINERY Co., 42 River, Chicago, Ill. (See adv. index, end of book)

Weighing, Packing & Bagging Machines (Automatic)

Automatic Weighing Machine Co., Jersey City, N. J.
SCHULE, F. H. CO., 27 Thames, New York. (See adv. index, end of book)
 United States Automatic Weighing Machine Co. (Inc.), 88 Walker, New York

Well Drilling Machinery

Alamo Iron Works, San Antonio, Tex.
AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)
 Austln Mfg. Co., Manhattan bldg., Chicago.
 Works, Harvey, Ill.
 Bovauid & Seyfang Mfg. Co., Bradford, Pa.
 Brockett, C. A. Cement Co., 121 W 8th, Kansas City, Mo.
 Christmau Co. (for Cable, Hollow Rod & Core Drilling)
 Cook Well Co., 15 S 4th, St. Louis, Mo.
 Crown Drilling Machine Co. (for Water, Gas or Oil), Akron, O.
 Cyclone Drill Co., Orrville, O.
 Dedrick, Z. P., Sherman, Tex.
 Dempster Mill Mfg. Co., Beatrice, Neb.
 Everhard Co., Massillon, O.
 Flint & Walling Mfg. Co., Kendallville, Ind.
 Fort Worth Machine & Foundry Co., Fort Worth, Tex.
 Freeman, J. W., Joplin, Mo.
 Fulton Engine Works (Oil Well, etc.), Los Angeles, Cal.
 Hardy Machine Co. (Oil & Gas), North Baltimore, O.
 Howell, R. R. & Co., Minneapolis, Minn.
 Indiana Road Machine Co., Fort Wayne, Ind.
 Kalamazoo Tubular Well Co. (A. R. Trowbridge, Prop.), Kalamazoo, Mich.
 Keystone Driller Co., Beaver Falls, Pa.
 Kelly & Taneyhill Co., Waterloo, Iowa
 King & Walker Co., Madison, Wis.
 La Crosse Well Drill Works, La Crosse, Wis.
 Leidecker Tool Co., Marietta, O.
 Lisle Mfg. Co., Clarinda, Ia.
 Loomis Machine Co. (Oil Well, etc.), Tiffin, O.
 Novelty Iron Works (G. E. Davis, Prop.) ("Dubuque"), Dubuque, Ia.
OIL WELL SUPPLY CO. (Oil Well, etc.), 215 Water, Pittsburg, Pa. (See adv. index, end of book)
 Peck, Gus Fdy. & Mfg. Co., Le Mars, Iowa
 Pierce Well Engineering & Supply Co., 90 West, New York
 Powers & Son, St. Joseph, Mo.
 Rockford Well Drill Co., Rockford, Ill.
 St. Louis Well Machine & Tool Co., Wabash
 R. R. & S., Newstead av., St. Louis, Mo.
 Safety Steel Derrick Co., Deshler, Ohio.
 Sherman Iron Works, Sherman, Tex.
 Sparta Iron Works Co., Sparta, Wis.
 Star Drilling Machine Co. (Portable), Akron, O.
 Trobridge, A. R., Kalamazoo, Mich.
 Van Zandt-Moore Iron Works, Fort Worth, Tex.
 Williams Bros., Ithaca, N. Y.

Well Drilling Machinery (Adamantine Coring)

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)
OIL WELL SUPPLY CO., 215 Water, Pittsburg, Pa. (See adv. index, end of book)

Well Drilling Machinery (Rotary Boring)

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)

*Well Machines (Belt Driven)

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)

Wet Machines (Paper Mill)

Friction Pulley & Machine Works, Sandy Hill, N. Y.
 Sandy Hill Iron & Brass Works, Sandy Hill, N. Y.

Wheel Facing Machines

Bentel & Margedant Co., Hamilton, O.

Wheel Machinery

Bentel & Margedant Co., Hamilton, O.
 Cordesman, Rechtiu Co., 25 Butler, Cincinnati, O.
DEFIANCE MACHINE WORKS, Defiance, O. (See adv. index, back of book)
 Fay, J. A. & Egan Co., cor. Front & John, Cincinnati, O.
 Flickinger Co., Galion, O.

Wheel Polishing Machines

Bentel & Margedant Co., Hamilton, O.

Wheel-Rim Turning Machines

Pratt & Whitney Co., Hartford, Conn.

Wheel Tenoning Machines

Bentel & Margedant Co., Hamilton, O.

Wheel Thread Sanding Machines

Bentel & Margedant Co., Hamilton, O.

Whip Makers' Machinery

Moore, M. E. & Sou, Westfield, Mass.

Whisk Broom Machinery

(See also Broom Machinery.)

Cass & Hamilton, Baltimore, Md.

White Lead Machinery

Campbell, Peter F., 51 Laurel, Phila., Pa.
 Cresson, Geo. V. Co., Allegheny av W of 17th, Phila., Pa., & 141 Liberty, N. Y.
 Kaestner & Co. (Inc.), 241 S Jefferson, Chicago, Ill.
 Greenwald, I. & E. Co., 720 E Pearl, Cincinnati, Ohio.
 Foole Engineering & Machine Co., Woodberry Station, Baltimore, Md.
 Thompson & Campbell, 1030 Germantown av., Phila., Pa.

Whitewash Spraying Machines

(See also Paint Spraying Machines.)

Star Brass Works, 12 S Jefferson, Chicago, Ill.

Whiting Machines for Picture Frames

Andrew, M. L. & Co., 2852 Spring Grove av., Cincinnati, O.

Whiting Works Machinery

Campbell, P. F., 55 Laurel, Phila., Pa.

Wine Making Machinery

Emeny, G. J. (Cider Mill Machinery), Fulton, N. Y.
 Hydraulic Press Mfg. Co., Mt. Gilead, O.
 Klotz Machine Co., Sandusky, O.
 Krogh Mfg. Co., San Francisco, Cal.

Window Frame Machinery

Smith & Phillips Mfg. Co., 269 Desplaines, Chicago, Ill.
 Wachusett Machine Co., Fitchburg, Mass.

Wiping & Packing Waste Machinery

Ford, H., Springfield, Mass.

Wire Barbing Machines

Bates Machine Co., Joliet, Ill.
 Emery, Wilber, Oberlin, O.

Wire Cloth Measuring Machines

Schrivver, O. P. & Co. ("I. X. L."), 208 Elm, Cincinnati, O.

Wire Cloth Weaving Machines

Crompton & Knowles Loom Works, Worcester, Mass.
 Diamond Wire Web Co., 489 Oak, Columbus, O.
 Lloyd Mfg. Co. (Automatic Coiled Wire Fabric Machines), Minneapolis, Minn.

Wire Covering Machinery

(See Wire & Cable Covering Machinery)

Wire Crimping Machines

Automatic Machine Co., Bridgeport, Conn.
 Blake & Johnson, Waterbury, Conn.
 Cady Machine Co., Cleveland, O.
 Cross & Speirs Machine Co., Waterbury, Conn.
 Franklin Mfg. Co., New Haven, Conn.
 Hayes Machine Co. (Inc.), Kingston, N. Y.
 Manville, E. J., Machine Co., Waterbury, Conn.
SHUSTER, F. B. CO., New Haven, Conn. (See adv. index, end of book)
 Smurr & Kamen (Crimping, Cutting & Counting Combined), 97 S Clinton, Chicago, Ill.
 Standard Machinery Co., Providence, R. I.
 Waterbury, Farrell Foundry & Machine Co., Waterbury, Conn.
WRIGHT WIRE CO., Worcester, Mass.

Wire Drawing Machinery

Bates Machine Co., Joliet, Ill.
CURRIER, CYRUS & SONS, Newark, N. J. (See adv. index, end of book)
 Ford & Donnelly, Kokomo, Ind.
 Iroquois Machine Co. (For Brass, etc.), Providence, R. I., & 150 Nassau, N. Y.
 MacKenzie's, Duncan Sons Co., Trenton, N. J.
 Morgan Construction Co., Worcester, Mass.
 Richard Mfg. Co., Bloomsburg, Pa.
 Turner, Vaughn & Taylor Co., Cuyahoga Falls, O.
 Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.
 Waterbury Machine Co., Waterbury, Conn.
WRIGHT WIRE CO. (Wire Drawing Frames), Worcester, Mass.

Wire Forming Machinery

Adrianee Machine Works, 254 Van Bruut, Brooklyn, N. Y.
 Automatic Machine Co., Bridgeport, Conn.
 Baird Machine Co., Oakville, Conn.
 Blake & Johnson, Waterbury, Conn.
BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)
 Cady Machine Co. (Automatic), Williamson bldg., Cleveland, O.
 Collins, Emmons, 20 W Randolph, Chicago, Ill.
 Coulter & McKenzie Machine Co., Bridgeport, Conn.
 Cross & Speirs Machine Co., Waterbury, Conn.
 Franklin Mfg. Co., New Haven, Conn.
 Garvin Machine Co., 137 Varick, New York.
 Hoefer Mfg. Co., Freeport, Ill.
 Manville Bros. Co., Waterbury, Conn.
 Manville, E. J., Machine Co., Waterbury, Conn.
 Nilson, A. H., Machine Co. (Automatic), Bridgeport, Conn.
SHUSTER, F. B. CO. (Automatic), New Haven, Conn. (See adv. index, end of book)
 Smurr & Kamen, 97 S Clinton, Chicago, Ill.
 Special Machinery Co., Bridgeport, Conn.
 Standard Machinery Co., Providence, R. I.
 Up-to-Date Mfg. Co., Terre Haute, Ind.
 Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.
 Waterbury Machine Co. (For Brass, etc.), Waterbury, Conn.

Wire Galvanizing Machinery

Bates Machine Co., Joliet, Ill.
 Morgan Construction Co., Worcester, Mass.
 Turner, Vaughn & Taylor Co., Cuyahoga Falls, O.
WRIGHT WIRE CO., Worcester, Mass.

Wire Handle Machines

American Can Co. ("Rudolphi & Kummer" Automatic), 135 Adams, Chicago, Ill.

Wire Hinging Machines

Williams Wire Hinging Machine Co. (For Wire Hinged Boxes), 532 W 22d, New York

Wire Insulating Machinery

(See Also Wire & Cable Covering Machinery)

AITON MACHINE CO., 126 Liberty,
New York. Works: Harrison, N. J. (See adv.
index, end of book)
Farrel Foundry & Machine Co., Ansonia, Conn.
New England Butt Co., Providence, R. I.
Royle, Jno. & Sons (Inc.), Paterson, N. J.
Textile Machine Works, Inc., Reading, Pa.

Wire Machinery

AITON MACHINE CO., 126 Liberty,
New York. Works: Harrison, N. J. (See adv.
index, end of book)
American Can Co., Merchants' Loan & Trust
hldg, Chicago, Ill.
Bates Machine Co., Joliet, Ill.
Hinkley, A. H., 71 Bassett, Providence, R. I.
Kilby Mfg. Co., Cleveland, O.
MacKenzie's, Duncan Sons Co. (Draw Benches
& Annealers), Trenton, N. J.
Manville Bros. Co., Waterbury, Conn.
Manville, E. J. Machine Co., Waterbury, Conn.
Morgan Construction Co., Worcester, Mass.
SHUSTER, F. B. CO., New Haven,
Conn. (See adv. below)
Thompson, Hugh L. (Brass & Copper, also for
Rods & Sheets), Waterbury, Conn.
Turner-Vaughn & Taylor Co. (Wire Mill), Cuya-
hoga Falls, O.
Waterbury Farrel Foundry & Machine Co.,
Waterbury, Conn.
Waterbury Machine Co., Waterbury, Conn.
WRIGHT WIRE CO., Worcester,
Mass.

Wire Mattress Machinery

Cavagnaro, John J., 215 Centre, New York, N.Y.
Houchin & Huher, 35 35d Brooklyn, N. Y.
Ivens, Wm. H., Sons Co., Trenton, N. J.

Wire Measuring Machines

AITON MACHINE CO., 126 Liberty,
New York. Works: Harrison, N. J. (See adv.
index, end of book)
Anderson, Homer, Peekskill, N. Y.
Minneapolis Electric & Construction Co., Min-
neapolis, Minn.
New England Butt Co., Providence, R. I.

Wire Nail Barbing Machines

Bates Machine Co., Joliet, Ill.
Miller's, H. J. Sons ("Improved Perkins"),
Bridgewater, Mass.
Turner, Vaughn & Taylor Co., Cuyahoga Falls,
O.

Wire Nail Cleaning Machines

Spicer Mfg. Co., New Philadelphia, O.

Wire Nail Machinery

(See Nail, Mill Machinery.)

Wire Pointing Machinery

(See also Swaging Machines.)

Baird Machine Co., Oakville, Conn.
Bates Machine Co., Joliet, Ill.

Excelsior Needle Co., Torrington, Conn.
Goodyear, S. W. (By Compression or Cold Sway-
ing), Waterbury, Conn.
Manville, E. J. Machine Co., Waterbury, Conn.
Morgan Construction Co., Worcester, Mass.
Trenton Iron Co., Trenton, N. J., & 17 Burling-
slip, New York
Waterbury Farrel Foundry & Machine Co.,
Waterbury, Conn.

Wire Rivet Machines

COOK, ASA S. CO., 80 Huyshope av.,
Hartford, Conn. (See adv. index, end of
book)
Mauville, E. J. Machine Co., Waterbury, Conn.
Perkins, Henry J., Bridgewater, Mass.
SHUSTER, F. B. CO., New Haven,
Conn. (See adv. below)
Waterbury Farrel Foundry & Machine Co.,
Waterbury, Conn.

Wire Rolling or Flattening Machines

WRIGHT WIRE CO., Worcester,
Mass.

Wire Rope Making Machinery

AITON MACHINE CO., 126 Liberty,
New York. Works: Harrison, N. J. (See adv.
index, end of book)

Wire Spooling Machines

AITON MACHINE CO., 126 Liberty,
New York. Works: Harrison, N. J. (See adv.
index, end of book)
Cady Machine Co., Cleveland, O.
Hoefer Mfg. Co., Freeport, Ill.
Koegel, Chas. & Sons, Holyoke, Mass.
Waterbury Machine Co., Waterbury, Conn.
WRIGHT WIRE CO., Worcester,
Mass.

Wire Spring Coiling Machines

(See also Spring Coiling Machines.)

Baird Machine Co., Oakville, Conn.
Hoefer Mfg. Co., Freeport, Ill.
Manville Bros. Co., Waterbury, Conn.
Manville, F. J. Machine Co., Waterbury, Conn.
Nilson, A. H. Machine Co., Bridgeport, Conn.
SHUSTER, F. B. CO., New Haven,
Conn. (See adv. below)

Wire Spring Machinery

Nilson, A. H. Machine Co. (Automatic), Bridge-
port, Conn.

Wire Stapling Machinery

Cobden Machine Works, Cobden, Ill.
Merritt Mfg. Co., Lockport, N. Y.
St. Joseph Iron Works (for Baskets, Packages,
etc.), St. Joseph, Mich.
Saranac Machine Co. ("Advance" for Baskets,
Boxes, Fruit Package, Butter Dish, etc.),
St. Joseph, Mich.

Wire Stitching Machines

Beck, Chas. Paper Co. (Ltd.), 607 Chestnut,
Phila., Pa.
Brown, R. H. & Co., New Haven, Conn.
Latham Machinery Co. ("Mouitor"), 199 S
Canal, Chicago, Ill.
Saranac Machine Co. ("Advance" for Books &
Pamphlets), St. Joseph, Mich.
Sheridan, T. W. & C. B. Co., 56 Duane, New
York, & Chicago, Ill.

Wire Straightening Machines (Roll & Rotary)

AITON MACHINE CO., 126 Liberty,
New York. Works: Harrison, N. J. (See adv.
index, end of book)
SHUSTER, F. B. CO., New Haven,
Conn. (See adv. below)

Wire Straightening & Cutting Machines

AITON MACHINE CO., 126 Liberty,
New York. Works: Harrison, N. J. (See
adv. index, end of book)
American Can Co., 135 Adams, Chicago, Ill.
Baird Machine Co., Oakville, Conn.
Chandler & Farquhar Co., 36 Federal, Boston,
Mass.
Cross & Speirs Machine Co. (Automatic), Water-
bury, Conn.
Franklin Mfg. Co. ("Cracker Jack," Straighten-
ing Machine), New Haven, Conn.
Hoefer Mfg. Co., Freeport, Ill.
Manville, E. J. Machine Co., Waterbury, Conn.
Nilson, A. H. Machine Co., Bridgeport, Conn.
SHUSTER, F. B. CO. (Automatic),
New Haven, Conn. (See adv. below)
Waterbury Farrel Foundry & Machine Co.,
Waterbury, Conn.
WRIGHT WIRE CO., Worcester,
Mass.

Wire Stranding Machines

AITON MACHINE CO., 126 Liberty,
New York. Works: Harrison, N. J. (See adv.
index, end of book)
New England Butt Co., Providence, R. I.
Textile Machine Works, Inc., Reading, Pa.

Wire Testing Machines

(See Testing Machines, Wire.)

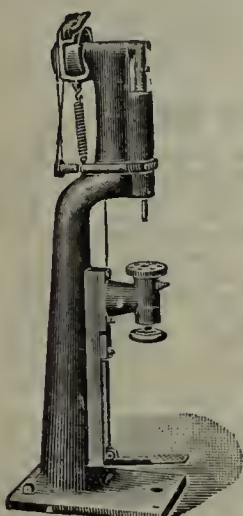
Wire Twisting Machines

AITON MACHINE CO., 126 Liberty,
New York. Works: Harrison, N. J. (See
adv. index, end of book)
Bates Machine Co., Joliet, Ill.

Wire Weaving Machinery

(See Wire Cloth Weaving Machines.)

Crompton & Knowles Loom Works, Worcester,
Mass.



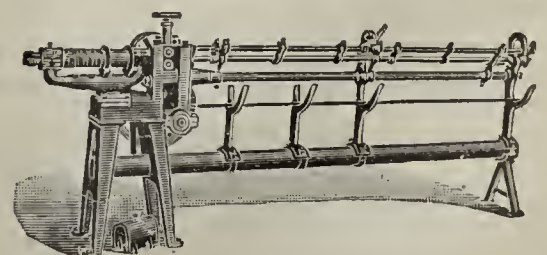
THE F. B. SHUSTER CO., FORMERLY JOHN ADT & SON, CEDAR HILL, NEW HAVEN, CONN.

Automatic Labor Saving Machinery for Wire and Sheet Metal Goods a Specialty.
BUILDERS OF MACHINERY FOR HARDWARE MANUFACTURE.

Butt Milling Machinery. Butt Drilling Machinery. Riveting Machines. Wire Straightening Machines.
Foot Presses. Sprue Cutters, etc.

Hoop Rounders, Buckle Tongue Machines,
Cold-Roll Pointing Machines,
Needle Forming Machinery, Lingoe & Jacquard.
Ring Forming Machines, Staple Machinery,
Tack Machinery, Cotter Pin Machinery,
Sheet Metal Straighteners and Cutters.
Hot Rolled Stock Straighteners and Cutters.
Foundry Machinery.

Drawings and Patterns for Machinery for innumerable Sun-
dry Articles, which may be altered to suit special requirements.



Automatic Wire Straightening
and Cutting Machine.

Wire Winding Machinery

Koegel, Chas. & Sons, Holyoke, Mass.
New England Butt Co., Providence, R. I.
WRIGHT WIRE CO. (Winding-Up),
Worcester, Mass.

Wire & Cable Covering Machinery

(See Also Wire Insulating Machinery)

AITON MACHINE CO., 126 Liberty,
New York, Works: Harrison, N. J. (See adv.
index, end of book)

Brooks, Chas. J. (Wire Covering Only), 27 Ar-
tizan, New Haven, Conn.

Clark, Edred W., Hartford, Conn.
Knoblock-Heideman Mfg. Co., South Bend, Ind.
New England Butt Co., Providence, R. I.
Rhode Island Braiding Machine Co., Providence,
R. I.

Royle, John & Sons (Inc.) (Leather Tubing &
Insulating), Paterson, N. J.
Textile Machine Works, Reading, Pa.

**WATSON-STILLMAN CO. (Cable Cov-
ering), 26 Cortlandt, New York.** (See adv.
index, end of book)

Wire & Cable Polishing Ma- chines

AITON MACHINE CO., 126 Liberty,
New York. Works: Harrison, N. J. (See
adv. index, end of book)
New England Butt Co., Providence, R. I.

Wood Band Sawing Machines

(See Band Sawing Machines.)

Wood Barking Machines

Holyoke Machine Co., Holyoke, Mass.
Sandy Hill Iron & Brass Works, Sandy Hill,
Scott, Olin, Bennington, Vt. N. Y.
Trevor Mfg. Co., Lockport, N. Y.
Valley Iron Works Co., Appleton, Wis.
Webber & Philbrick, Waterville, Me.

Wood Bending Machines

**DEFIANCE MACHINE WORKS (Rim,
Felloe, etc.), Defiance, O.** (See adv. index,
end of book)

Fay, J. A. & Egan Co., Cincinnati, O.
Root, B. M., Co., York, Pa.
Smith, H. B. Machine Co., Smithville, N. J., &
121 Liberty, New York
Superior Iron Works, Superior, Wis.

Wood Boring Machines

(See also Pneumatic Wood Boring Machines)

Ajax Mfg. Co. ("Ajax" & "Phillips" Auto-
matic), Allegheny, Pa.
American Wood Working Machinery Co., Roch-
ester, N. Y., & West Street bldg, New York
Andrew, M. L. & Co. (Multiple Spindles), 2852
Spring Grove av., Cincinnati, O.

Atlantic Works (Inc.), 2821 Oakford, Phila., Pa.
Berlin Machine Works, Beloit, Wis.

Bentel & Margedant Co., Hamilton, O.
Carey, Wilson W., Lowell, Mass.
Cordesman, Meyer & Co., 53 Central av., Cin-
cinnati, O.

Cordesman, Rechlin Co., 25 Butler, Cincinnati,
O.

Cowdrey, C. H. Machine Works, Fitchburg,
Mass.

**DEFIANCE MACHINE WORKS, De-
fiance, O.** (See adv. index, end of book)
Dennis Machine Co., Jackson, Mich.
Eagle Square Mfg. Co. (Carpenters' Hand), S.
Shaftsbury, Vt.

Erle Machine Shops, Erie, Pa.

Fay, J. A. & Egan Co., Cincinnati, O.

Fischer, E., Machine Works (Multiple Adjust-
able), 710 Carroll av., Chicago, Ill.

Frank Machinery Co., 214 Terrace, Buffalo, N. Y.
Garvin Machine Co., Varick & Spring, N. Y.

Greenlee Bros. & Co., Railway Exchange bldg,
Chicago, Ill. Factory: Rockford, Ill.

Heath, W. A. Machine Co., Lestershire, N. Y.
Hobbs Mfg. Co., Worcester, Mass.

Holmes, E. & B. Machinery Co., Buffalo, N. Y.
Millers Falls Co., Millers Falls, Mass., & 28
Moline Tool Co., Moline, Ill. Warren, N. Y.

Nash, J. M. (Universal Multiple), 129 Ferry,
Milwaukee, Wis.

Ober Mfg. Co. (Combined Boring & Chucking),
Chagrin Falls, O.

Power, L. & Co., 20 S 23d, Phila., Pa.
Pringle & Brodie Machinery Co. (Multiple
Spindle, Vertical & Horizontal), 277 S
Canal, Chicago

Seymour & Whitlock, 43 Lawrence, Newark,
N. J.

Smith, H. B. Machine Co., Smithville, N. J., &
121 Liberty, New York

Superior Iron Works, Superior, Wis.

Terwilliger Mfg. Co., 3 W 23d, New York

White, Jno. A. Co., Dover, N. H.

Yerkes & Finan Woodworking Machine Co., St.
Louis, Mo.

Wood Boring Machines (Multi- ple)

Fischer, E., Machine Works (Adjustable), 345
Causal, Chicago, Ill.

WRIGHT WIRE CO., Worcester,
Mass.

Wood Bundling Machines

Green Mfg. Co., 296 Oakland, Brooklyn, N. Y.

Wood Carving Machines

American Steam Pump Co., Battle Creek, Mich.

American Wood Working Machinery Co., Roch-
ester, N. Y., & West Street bldg, New York

Fay, J. A. & Egan Co., Cincinnati, O.

Moore Carving Machine Co. ("Lochman Moore")
Minneapolis, Minn.

Moshannon Mfg. Co. (Shaper & Carver Com-
bined), Phillipsburg, Pa.

Porter, C. O. & A. D., Grand Rapids, Mich.

Yerkes & Finan Woodworking Machine Co., St.
Louis, Mo.

Wood Cutting-Off Machines

Adams, W. T. Machine Co., Corinth, Miss.

**ALLIS-CHALMERS CO. (Steam Feed
Cutting-Off Saws), Milwaukee, Wis.** (See
adv. index & branch offices, end of book)

American Wood Working Machinery Co., Roch-
ester, N. Y., & West Street bldg, New York

Atlantic Works (Inc.), 2821 Oakford, Phila., Pa.

Barnes, W. F. & John Co. (Foot & Power),
Rockford, Ill.

Bentel & Margedant Co., Hamilton, O.

Cordesman, Meyer & Co., 53 Central av., Cin-
cinnati, O.

Cordesman, Rechlin Co., 25 Butler, Cincinnati,
O.

Dodds, Alexander, Grand Rapids, Mich.

Fischer, E., Machine Works (Double & Auto-
matic Scif-Feed Cut-Off Saws), 710 Carroll
av., Chicago, Ill.

Frank Machinery Co., 214 Terrace, Buffalo, N. Y.

**GRAMMES, L. F. & SONS (Cut-Off
Saw Machines), Allentown, Pa.** (See adv. in-
dex, end of book)

Hall & Brown Woodworking Machine Co. (Car-
riage Cut-Off Sawing Machines), 1917 N
B'way, St. Louis, Mo.

Hayes, E. B. Machine Co., Oshkosh, Wis.

Hobbs Mfg. Co., Worcester, Mass.

Holmes, E. & B. Machinery Co., 57 Chicago,
Buffalo, N. Y.

Hurlbut, Rogers Machine Co., S Sudbury, Mass.

Kline, Lewis T., Alpena, Mich.

LANE MFG. CO., Montpelier, Vt.
(See adv. index, end of book)

Lovell, F. S. Machine Works, Fitchburg, Mass.

Luther, B. G. & Co. (Double Cut-off), Worces-
ter, Mass.

Marston, J. M. & Co. (Hand), 228 Ruggles, Bos-
ton, Mass.

Mecklenburg Iron Works, Charlotte, N. C.

Power, L. & Co., 20 S 23d, Phila., Pa.

Smith, H. B. Machine Co. (also Pendulum or
Swing), Smithville, N. J., & 121 Liberty,
New York

Union Iron Works, Bangor, Me.

Wickes Bros., Saginaw, Mich.

Yerkes & Finan Woodworking Machine Co.,
St. Louis, Mo.

Wood Dish Machinery

**DEFIANCE MACHINE WORKS (For
Oval Wood Dishes), Defiance, O.** (See adv.
index, end of book)

Wood Embossing Machines

(See Embossing Machines.)

Wood Fibre Machinery

Concrete Engineering & Equipment Co. ("Coch-
ran," Automatic), Butler, Pa.

Shuart-Fuller Mfg. Co. ("Leonard"), Elyria, O.

Wood Flooring Machines

American Wood Working Machinery Co., Ro-
chester, N. Y., & West St. bldg, New York

Fay, J. A. & Egan Co., Cincinnati, O.

Hall & Brown Woodworking Machine Co., 1917
N B'way, St. Louis, Mo.

Holmes, E. & B. Machinery Co., Buffalo, N. Y.

Moltz, Jacob J., Williamsport, Pa.

Power, L. & Co., 20 S 23d, Phila., Pa.

Smith, H. B. Machine Co., Smithville, N. J., &
121 Liberty, New York

Woods, S. A. Machine Co., 445 Dorchester av.,
Boston, Mass.

Wood Fluting Machines

Shawver Co., Springfield, O.

Wood Gang Sawing Machines

Bentel & Margedant Co., Hamilton, O.

Bradley, H. C. (To Cut up Stock), Bridgeport,
Conn.

Fischer, E. Machine Works (Cutting-up Saws),
710 Carroll av., Chicago, Ill.

Wood Graining Machines

Grand Rapids Panel Co., Grand Rapids, Mich.

National Graining Co. (Perfect Imitation of all
the finest Grained Woods), Bucyrus, O.

Wood Mitreing Machines

McFarlan & Spllker Mfg. Co., 1652 Dorman,
Cincinnati, O.

Oliver Machinery Co. ("Oliver"), Grand Rapids,
Mich.

Wood Mortising Machines

American Wood Working Machinery, Roches-
ter, N. Y., & West st hldg, N. Y.

Atlantic Works (Inc.), 2821 Oakford, Phila.,
Pa.

Barnes, W. F. & Jno. Co. (Hand & Foot Power),
Rockford, Ill.

Bentel & Margedant Co., Hamilton, O.

Berlin Machine Works, Beloit, Wis.

Cordesman, Meyer & Co., 53 Central av., Cin-
cinnati, O.

Cordesman, Rechlin Co., 25 Butler, Cincinnati,
O.

**DEFIANCE MACHINE WORKS, De-
fiance, O.** (See adv. index, end of book)

Fay, J. A. & Egan Co., cor Front & John Cin-
cinnati, O.

Frank Machinery Co., 214 Terrace, Buffalo,
N. Y.

Greenlee Bros. & Co., Railway Exchange bldg,
Chicago, Ill. Factory: Rockford, Ill.

Health, W. A., Machine Co. (Chair), Lester
shlre, N. Y.

Hobbs Mfg. Co., Worcester, Mass.

Miller, Albert W. Mfg. Co. ("Miller's" Hand),
Cincinnati, O.

Oliver Machinery Co. ("Oliver"), Grand Rapids,
Mich.

Power, L. & Co., 20 S 23d, Phila., Pa.

Seneca Falls Mfg. Co. (Foot Power), Seneca
Falls, N. Y.

Seymour & Whitlock, 43 Lawrence, Newark,
N. J.

Smith, H. B. Machine Co., Smithville, N. J., &
121 Liberty, New York

STRONG, CARLISLE & HAMMOND
Co., 333-344 Frankfort av. N. W., Cleve-
land, O. (See adv. index, end of book)

Yerkes & Finan Woodworking Machine Co.
(Cabinet, Hollow, Chisel, etc), St. Louis,
Mo.

Wood Moulding Machines

American Steam Pump Co., Battle Creek, Mich.

American Wood Working Machinery Co., Ro-
chester, N. Y., & West st. hldg, New York

Barnes, W. F. & Jno. Co. (Hand & Foot
Power), Rockford, Ill.

Bentel & Margedant Co., Hamilton, O.

Berlin Machine Works, Beloit, Wis.

Colloday, Jos. O., 626 Race, Phila., Pa.

Cordesman, Rechlin Co., 25 Butler, Cincinnati,
O.

Cordesman, Meyer & Co., 53 Central av., Cin-
cinnati, O.

De Loach Mill Mfg. Co., Atlanta, Ga.

Fay, J. A. & Egan Co., c Front & John, Cin-
cinnati, O.

Frank Machinery Co., 214 Terrace, Buffalo,
Gleason Works, Rochester, N. Y.

Hall & Brown Woodworking Machine Co., 1917
N B'way, St. Louis, Mo.

Power, L. & Co. (Est. of), 22 S 23d, Phila., Pa.
Seneca Falls Mfg. Co. (Hand & Foot Power),
Seneca Falls, N. Y.
Seymour & Whitlock, 43 Lawrence, Newark,
N. J.
Shawver Co. (Twist Moulding, etc.), Spring-
field, O.
Smith, H. B. Machine Co., Smithville, N. J., &
121 Liberty, New York
Thomson, W. S., 418 W 27th, N. Y.
White, Jno. A. & Co., Dover, N. H.
Woods, S. A. Machine Co., 445 Dorchester av.,
Boston, Mass.
Yerkes & Finan Wood Working Machine Co.,
3143 N 9th, St. Louis, Mo.

Wood Paneling Machines

American Steam Pump Co., Battle Creek,
Mich.

Wood Pipe Boring Machines

Bentel & Margedant Co., Hamilton, O.

Wood Polishing Machines

American Wood Working Machinery Co., Ro-
chester, N. Y., & West st. bldg, New York
Bentel & Margedant Co., Hamilton, O.
Berlin Machine Works, Beloit, Wis.
Builders' Iron Foundry, Providence, R. I.
Fay, J. A. & Egan Co., Cincinnati, O.
Fox Machine Co., Grand Rapids, Mich.
Klotz Machine Co., Sandusky, O.
Nash, J. M., 129 Ferry, Milwaukee, Wis.

Wood Polishing Machines (for Handles, Felloe, Etc.)

DEFIANCE MACHINE WORKS, De-
fiance, O. (See adv. on following page)

Wood Printing Machines

(See Box Board Printing Machines)

Wood Pulley Machinery

DEFIANCE MACHINE WORKS, De-
fiance, O. (See adv. on following page)

Wood Ring & Valve Handle Ma- chines

Pringle & Brodie Machinery Co., 277 S Canal,
Chicago, Ill.

Wood Rubbing Machines

Moore Carving Machine Co. ("Victor Impe-
rial"), Minneapolis, Minn.

Wood Sawing Machines

Althouse-Wheeler Co. (Sawing Machines with
Swing Saw Table), Waupun, Wis.
American Sawmill Machinery Co., 114 Liberty,
New York, & Hackettstown, N. J.
American Steam Pump Co. (Shop Saws), Battle
Creek, Mich.
Baker Mfg. Co., Evansville, Wis.
Baldwin, Tuthill & Bolton, Grand Rapids,
Mich.
Bentel & Margedant Co., Hamilton, O.
Burlingame, A. Co., Worcester, Mass.
Comstock, Geo. S., Mechanicsburg, Pa.
Davis, Geo. E., Dubuque, Ia.
Ellis Keystone Agricultural Works (Circular
Saw), Pottstown, Pa.

Farquhar, A. B. Co. (Ltd.), York, Pa.
Gehl Bros. Mfg. Co., West Bend, Wis.
Globe Foundry & Machine Co. (Circular & Pole
Saw for Cord Wood), Sheboygan, Wis.
Gowanda Agricultural Works Co. (Wood Mill
with Jack), Gowanda, N. Y.
Greenville Implement Co., Greenville, Mich.
Hemingway, Jno., Lynn, Mass.
Heebner & Sons ("Daisy"), Lansdale, Pa.
Hill, W. E. & Co. (For Pulp Mills), Kalamazoo,
Mich.

Huntsville Fdy. & Machine Works, Huntsville,
Ala.
Marseilles Mfg. Co., Marseilles, Ill.
Messinger Mfg. Co. (Swinging & Sliding Table),
Tatamy, Pa.
New Winona Mfg. Co. (Portable Wood Saws of
Various Kinds), Winona, Minn.
Port Huron Engine & Thresher Co. (Sawing
Only), Port Huron, Mich.
Rowell, I. B. Co., Menominee Falls, Wis.
Sandwich Mfg. Co. (Sawing), Sandwich, Ill.
Spangler Mfg. Co. (Quickel's Splitting & Saw-
ing), York, Pa.

Smith & Pomeroy Windmill Co., Kalamazoo,
Mich.
Sweetser, Wm. A. (Splitting), Brockton, Mass.
Thompson, J. & Sons, Mfg. Co., Beloit, Wis.
Wheland Machine Works, Chattanooga, Tenn.

Wood Sawing & Splitting Ma- chinery

CODD, E. J. C. (Splittings only),
700-708 S Caroline, Baltimore, Md. (See adv.
index, end of book)
Fort Werth Machine & Foundry Co. (Splitting,
etc.), Ft. Worth, Tex.
Glasecock Stove & Foundry Co. (Sawing &
Splitting), Greensboro, N. C.
Globe Foundry & Machine Co. (Circular & Pole
Saw for Cord Wood), Sheboygan, Wis.
Hill, W. E. & Co. (For Pulp Mills), Kalamazoo,
Mich.
Smalley Mfg. Co. ("Battle Creek" Splitting &
Sawing), Manitowoc, Wis.
Spangler Mfg. Co. (Quickel's Splitting & Saw-
ing), York, Pa.

Wood Screw Heading Machines

COOK, ASA CO., 80 Huyshope av.,
(New Patent Feed), Hartford, Conn. (See
adv. below)

Wood Screw Machinery

COOK, ASA CO., 80 Huyshope av.,
Hartford, Conn. (See adv. below)
Manville, E. J., Machine Co., Waterbury, Conn.

Wood Screw Shaving & Slot- ting Machines

COOK, ASA CO., 80 Huyshope av.,
Hartford, Conn. (See adv. below)

Wood Screw Slotting Machines

COOK, ASA CO., 80 Huyshope av.,
Hartford, Conn. (See adv. below)

Wood Screw Threading & Point- ing Machines

COOK, ASA CO., 80 Huyshope av.,
Hartford, Conn. (See adv. below)

Wood Shaping Machines

(See Shaping Machines, Wood)

Wood Surfacing Machines

American Woodworking Machinery Co., Roches-
ter, N. Y., & West Street bldg, New York
Atlantic Works (Inc.), 2821 Oakford, Phila., Pa.
Bentel & Margedant Co., Hamilton, O.
Connell & Dengler Machine Co., Rochester,
N. Y.
Cordesman, Meyer & Co., 53 Central av., Cincin-
nati, O.
Cordesman, Rehtin Co., 25 Butler, Cincinnati,
O.
Dennis Machine Co., Jackson, Mich.
Fay, J. A. & Egan Co., Cincinnati, O.
Fischer, E., Machine Works, 710 Carroll av.,
Chicago, Ill.

Hobbs Mfg. Co., Worcester, Mass.
Power, L. & Co., 20 S. 23d, Phila., Pa.
STRONG, CARLISLE & HAMMOND
Co., 333-344 Frankfort av., N. W., Clevel-
and, O. (See adv. index, end of book)

Wood Tenoning Machines

American Woodworking Machinery Co., Roches-
ter, N. Y., & West Street bldg, New York
Atlantic Works, (Inc.), 28th & Gray's Ferry rd,
Phila., Pa.
Barnes, W. F. & John Co., Rockford, Ill.
Bentel & Margedant Co., Hamilton, O.
Cordesman, Rehtin Co., 25 Butler, Cincinnati,
Ohio

Cordesman, Meyer & Co., 53 Central av., Cincin-
nati, O.

DEFIANCE MACHINE WORKS
(Chucking & Tenoning), Defiance, O. (See
adv. on following page)

Fay, J. A. & Egan Co., Cincinnati, O.
Frank Machinery Co., 214 Terrace, Buffalo,
N. Y.

Greenlee Bros. & Co. (Car Tenoner, etc.), Rail-
way Exchange bldg, Chicago, Ill. Factory:
Rockford, Ill.

Hayes, E. B. Machine Co. (Double End), Osh-
kosh, Wis.

Heath, W. A. Machine Co., Lestershire, N. Y.
Hoobs Mfg. Co., Worcester, Mass.

Kane & Roach, Syracuse, N. Y.
Power, L. & Co., 20 S. 23d, Phila., Pa.

Smith, H. B. Machine Co., Smithville, N. J., &
121 Liberty, New York

STRONG, CARLISLE & HAMMOND
Co., 333-344 Frankfort av. N. W., Cleveland,
O. (See adv. index end of book)

Yerkes & Finan Woodworking Machine Co., St.
Louis, Mo.

Wood Trimming Machines

Adams, W. T. Machine Co., Corinth, Miss.
Cadillac Motor Car Co., Detroit, Mich.
Chattanooga Machinery Co. (Iron-sided), Chat-
tanooga, Tenn.
Fox Machine Co., Grand Rapids, Mich.
Fraser Mfg. Co., Beloit, Wis.
LANE MFG. CO., Montpelier, Vt.
(See adv. index, end of book)
Olivet Machinery Co. ("The Olicer"), Grand
Rapids, Mich.
Perkins & Co. ("Perkins" Bench Draw Stroke
Trimmer), Grand Rapids, Mich.
Tyler, J. L. (Combination Trimmer & Mitre
Cutter), 533 Wash'n, Lynn, Mass.
Washburn Shops of the Polytechnic Institute,
Worcester, Mass.

Wood Twisting Machines

Shawyer Co., Springfield, O.

Wooden Corking Machines

Redlich Mfg. Co., 2 Oak, Chicago, Ill.

Woodenware Machinery

Gerlach, Peter Co. (Pail, Tub, Churn, Keg,
etc.), 1708 Columbus rd., Cleveland, O.

WOOD SCREW MACHINERY

THE ASA S. COOK CO.

COLT'S WEST ARMORY, HARTFORD, CONN.

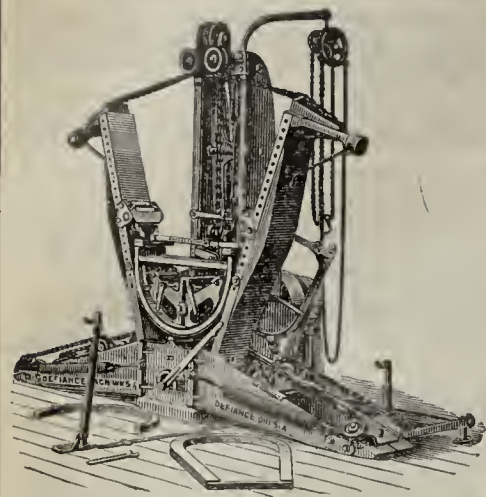
THE VERY LATEST DESIGNS OF

WOOD SCREW HEADERS (NEW PATENT FEED)
BOLT HEADING MACHINES (NEW PATENT FEED)
BOLT THREADING MACHINES FOR STOVE AND TIRE BOLTS
BOLT POINTING MACHINES FOR STOVE AND TIRE BOLTS.
THE COLT & COOK MILLING MACHINES
RIVET HEADING MACHINES (NEW PATENT FEED)
WOOD SCREW HEADING MACHINES (NEW PATENT FEED)
WOOD SCREW SHAVER AND SLOTTER. SPECIAL MACHINERY
WOOD SCREW SLOTTING MACHINES
WOOD SCREW THREADER AND POINTER. LAG SCREW THREADER

"DEFIANCE"

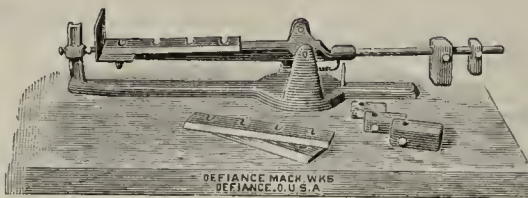
WOOD-WORKING MACHINERY

INVENTED AND BUILT BY
THE DEFIANCE MACHINE WORKS
 DEFIANCE; OHIO, U. S. A.

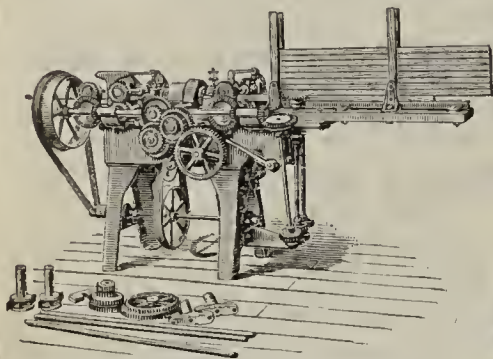


12" RIM AND FELLOE BENDER

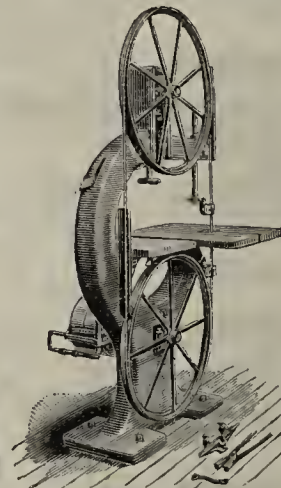
COMPLETE OUTFITS FOR MAKING
 HUBS, SPOKES, WHEELS,
 WAGONS, CARRIAGES, RIMS,
 SHAFTS, POLES, NECK-YOKES,
 SINGLE-TREES, HOOPS, HAND-
 LES OF EVERY KIND, BOBBINS,
 SPOOLS, INSULATOR PINS AND
 BRACKETS AND OVAL WOOD
 DISHES.



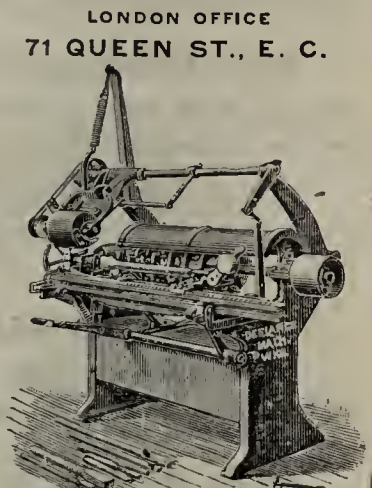
PROPORTIONAL KNIFE BALANCER



AUTOMATIC LONG HANDLE LATHE



36" BAND SAW



42" SPOKE AND HANDLE LATHE

LONDON OFFICE
 71 QUEEN ST., E. C.

Woodworking Machinery

Advance Machinery Co., Toledo, O.
 American Woodworking Machinery Co., Roches-
 ter, N. Y., & West Street bldg, New York
 Andrew, M. L. & Co. (Boring), 2852 Spring
 Grove av., Cincinnati, O.
 Atlantic Works (Inc.), 2821 Oakford, Phila., Pa.
 Badger State Machine Co., Janesville, Wis.
 Baldwin, Tuthill & Bolton, Grand Rapids, Mich.
 Barnes, W. F. & John Co. (Foot Power), Rock-
 ford, Ill.
 Bartlett, A. F. & Co. (Planing Mill), Saginaw,
 Mich.
 Beach, H. W., Montrose, Pa.
 Bente & Margedant Co., Hamilton, O.
 Berlin Machine Works, Beloit, Wis.
 Borg & Beck, East Moline, Ill.
 Carey, W. W., Lowell, Mass.
 Central Machine Works Co., 1234 Central av.,
 Minneapolis, Minn.
 Chapman, T. M. Sons Co., Oldtown, Me.
 Chase Turbine Mfg. Co., Orange, Mass.
 Chattanooga Machinery Co. (Stave Jointers &
 Bolters, etc.), Chattanooga, Tenn.
 Clarke Machine Co., Turner's Falls, Mass.
 Colburn Machine Tool Co., Franklin, Pa.
 Colladay, Jos., 625 Race, Phila., Pa.
 Concord Machine Co., Concord, N. H.
 Connell & Dengler Machine Co., Rochester,
 N. Y.
 Cordesman, Meyer & Co., 53 Central av., Cin-
 cinnati, O.
 Cordesman, Rehtiu Co., 25 Butler, Cincinnati,
 O.
 Cowdrey, C. H. Machine Works, Fitchburg,
 Mass.
 Crescent Machine Co., Leetonia, O.
 Dannis Machine Co., Jackson, Mich.
DEFIANCE MACHINE WORKS, De-
fiance, O. (See adv. above)
 Dodds, Alex., Grand Rapids, Mich.
 Embossing Art Die & Machine Co., 140 S
 Capitol av., Indianapolis, Ind.
 Empire Machine Works, Mt. Morris, N. Y.
 Fay, J. A. & Egan, Front & John, Cincinnati,
 O.
 Fischer Machine Works, 345 S Canal, Chicago,
 Ill.
 Fisher & Davis, 1024 N Main, St. Louis, Mo.
 Fox Machine Co., Grand Rapids, Mich.
 Francis, C. E. & Bro., 423 E 8th, Cincinnati, O.
 Gerlach, Peter & Co., 28 Columbus, Cleveland,
 O.

Goodspeed Machine Co. (Tnb, Keg, Barrel, etc.),
 Winchendon, Mass.
GRAMMES, L. F. & SONS, Allentown,
 Pa., (See adv. index, end of book)
 Greaves, Klusman & Co., Cook & Alfred, Cin-
 cinnati, O.
 Greenlee Bros. & Co., Railway Exchange bldg,
 Chicago, Ill. Factory: Rockford, Ill.
 Griffin, G. W. & Co., Franklin Falls, N. H.
 Hall & Brown Woodworking Machine Co., 1917
 N B'way, St. Louis, Mo.
 Hayes, E. B. Machine Co., Oshkosh, Wis.
 Heath, M. A. Machine Co., Lestershire, N. Y.
 Hemingway, John & Son, Lynn, Mass.
 Hinds, Thos., Malone, N. Y.
 Hobbs Mfg. Co., Worcester, Mass.
 Hollingsworth, W. T. Covington, Ky.
 Holmes, E. & B. Machinery Co., 59 Chicago,
 Buffalo, N. Y.
 Humphrey Machine Co., Keene, N. H.
 Indiana Machine Works Co., Fort Wayne, Ind.
 Jenkins Machine Co., Sheboygan, Wis.
 Kidder, R. E., Worcester, Mass.
KINSEY, E. A. & CO., 331 W 4th,
 Cincinnati O (See adv. index, end of book)
 Linderman Mfg. Co., Muskegon, Mich.
 Linham Dado Machine Co., Mansfield, O.
 Lombard Iron Works & Supply Co., Augusta, Ga.
 Luther, B. G. & Co., Worcester, Mass.
 McKnight, L. G. & Co., Gardner, Mass.
 Maddox Machine Co., Jamestown, N. Y.
 Marston, J. M. & Co. (Foot Power), 228 Rug-
 gles, Boston, Mass.
 Merritt Mfg. Co., Lockport, N. Y.
 Michels, J. & Co. (Hoop Machinery, etc.),
 Detroit, Mich.
 Moore Mfg. Co., Springfield, Mo.
 Merritt Mfg. Co., Lockport, N. Y.
 Morison, W. K. & Co., 247 Nicolet av., Min-
 neapolis, Minn.
 Moshannon Mfg. Co., Philipsburg, Pa.
 Oliver Machinery Co., Grand Rapids, Mich.
 Ober Mfg. Co., Chagrin Falls, O.
 Packard, O. L. Machinery Co., Milwaukee, Wis.
 Parks Ball Bearing Machine Co., Knowlton, &
 C. H. & D. R. R., Cincinnati, O.
 Peerless Mfg. Co., Springfield, O.
 Phoenix Mfg. Co., Eau Claire, Wis.
 Porter, C. O. & A. D., Grand Rapids, Mich.
 Power, L. & Co., 20 S 23d, Phila., Pa.
 Preble Machine Works, Roby, Ind.
 Pringle & Brodie Machinery Co. (Lathes & Bor-
 ing Machines), 277 S Canal, Chicago, Ill.

Purdy Machine Co., Ghent, O.
 Putnam Machine Co., Fitchburg, Mass.
 Prybil, P. (Est. of), 512 W 41st, N. Y.
 Ricker, T. H. & Sons, Harrison, Me.
 Root, B. M. Co., York, Pa.
 Ross, Josiah Mfg. Co., 1459 Niagara, Buffalo,
 N. Y.
 Salem Iron Works, Winston-Salem, N. C.
 Seneca Falls Mfg. Co. (Foot Power), 276 Water,
 Seneca Falls, N. Y.
 Seyfert's, L. F. Sons, 437 N 3d, Phila., Pa.
 Seymour & Whitlock, 43 Lawrence, Newark,
 N. J.
 Shawver Co., Springfield, O.
 Smith, H. B. Machine Co., Smithville, N. J., &
 121 Liberty, New York
 Smith & Phillips Mfg. Co., 269 Desplaines, Chi-
 cago, & La Grange, Ill.
 Stamm Machine Works, Aurora, Ind.
 Stevens Machine Co., Winoski, Vt.
STRONG, CARLISLE & HAMMOND
 Co., Cleveland, O. (See adv. index, end of
 book)
 Stutzman-Cutter Head Co., Williamsport, Pa.
 Towsley, John T. Mfg. Co., Evans nr Gest, Cin-
 cinnati, O.
 Union Embossing Mach. Co., Indianapolis, Ind.
 Union Iron Works, Bangor, Me.
 United States Machine Co., Williamsport, Pa.
 Vance, J. A. Co., Winston-Salem, N. C.
 Wachusett Machine Co., Fitchburg, Mass.
 White, John A. & Co., Dover, N. H.
 Whitney, Baxter D. & Son, Winchendon, Mass.
 Wickes Bros., Saginaw, Mich.
 Willebrands Machinery Co., 52 Jefferson av.,
 Detroit, Mich.
 Williams, White & Co., Moline, Ill.
 Winship Mfg. Co. (Sand Papering), Racine, Wis.
 Wright, Chas. A., New Orange, N. J.
 Woods, S. A. Machine Co., 445 Dorchester av.,
 Boston, Mass.
 Wormer, C. C. Machinery Co., 99 W Wood-
 bridge, Detroit, Mich.
 Yerkes & Finan Wood Working Mach. Co., 3145
 N 9th, St. Louis

Woodworking Machinery (Hand & Foot Power)

Barnes Tool Co., 958 Grand av., New Haven,
 Conn.
 Barnes, W. F. & Jno. Co., Rockford, Ill.

Crescent Machine Co., Leetonia, O.
Marston, J. M. & Co., 228 Ruggles, Boston, Mass.
Parks Ball Bearing Machine Co., Knowlton & Fergus, Cincinnati, O.
Seneca Falls Mfg. Co. (Foot Power), Seneca Falls, N. Y.

Woolen Machinery

(See Textile Machinery. For page number consult Index of Contents)

Woven Wire Fence Machines

Kitselman Bros., Muncie, Ind.
Peerless Fence Co., Holly, Mich.

Woven Wire Mattress Machinery

Erlandsen, Julius, 172 Centre, New York

Wrapper Cutting Machines

Shirk, P. E., Blue Ball, Pa.

Wrapping Machines (Fruit & Merchandise)

New York Wrapping Machine Co. (for Chocolate, Gum Candies, Soap, etc.), 52 Wall, New York
Tripp Fruit Wrapping Machine Co., 416 Sanson, San Francisco, Cal.

Wrapping Machines (Rubber Mill)

AITON MACHINE CO., 126 Liberty, New York. (See adv. index, end of book)
BIRMINGHAM IRON FOUNDRY, Derby, Conn. (See adv. index, end of book)
Farrel Foundry & Machine Co., Ansonia, Conn.

Wrench Machinery

Gould & Eberhardt, Newark, N. J.

(END OF MACHINERY.)

Machinery Dealers (New & Second Hand)

ALABAMA.

ANNISTON—Anniston Supply Co.
BIRMINGHAM—Birmingham Machine & Foundry Co.
Hardie-Tynes Mfg. Co.
Johns & Steward
Lum, Geo. E. Machine & Supply Co. (Engines, Boilers, Saw Mill & Mining Machinery, etc.)
Moore & Handley Hardware Co. (Engines, Boilers, Pumps, etc.)
Shook & Fletcher (Machinery, Boilers, etc.)
Williamson Iron Co., 1420 18th av
Yates, J. A. & Co. (Mining Machinery)
GADSDEN—Gadsden Car & Machine Co.
MOBILE—Alabama Iron Works
Barney, Cavanagh Hdw. Co.
Mellott, Richard
MONTGOMERY—Janney & Co.
Lum Machinery Co. (Engines, Boilers, Pumps, etc.)
NEW DECATUR—North Alabama Engineering Co. (Engines, Boilers, Saw Mill & Cane Mill Machinery, etc.)
SELMA—Union Iron Works Co.

ARIZONA.

PHOENIX—Thayer, Ezra W. (Engines, Mining Machinery & Agricultural Implements, etc.)
TUCSON—Gardiner, Worthen & Goss Co.

ARKANSAS.

CAMDEN—Camden Hardware & Mill Supply Co. (Engines, Pumps, Saw Mill Machinery, etc.)
DARDANELLE—Cox, Thos. Mfg. Co. (etc.)
LITTLE ROCK—Arkansas Pump & Pipe Co.
Cox, Thos. & Sons Machinery Co.
Jones, D. E. Co.
Rosenbaum, C. E. Machinery Co.
Wehrfritz, E. C. Machinery & Supply Co.

MAGNOLIA—Davis & Warnock
MORRILTON—DeLong Machinery Co.
PINE BLUFF—Dilley Foundry Co.
Fox-Harris Machinery Supply Co.
STUTTGART—Whaley, J. F.

CALIFORNIA.

LOS ANGELES—Baker Iron Works, 950 Buena Vista
Booth, Levi & Sons (Inc.), 262 S Los Angeles
Busch, A. H. Co., 150 N Los Angeles
FAIRBANKS, MORSE & CO. (Engines, Boilers, Pumps, etc.), 136 S. Los Angeles. (See adv. index, end of book)
Fulton Engine Works (Engines, Boilers, Mining, Saw Mill)
Harper & Reynolds Co.
Harron, Rickard & McCone (Inc.) (Engine, Electrical, Woodworking, Machinery, etc.), 168 N Los Angeles
Luitweiler Pumping Engine Co., 715 N Main
Machinery & Electrical Co., 353 N Main
Pacific Coast Mfg. Co., 126 S. Los Angeles
Smith, Samuel J. Machinery Co., 212 S. Los Angeles
Union Iron Works of Los Angeles, Molino, c Palmetto
RIVERSIDE—Riverside Foundry & Machine Works

SACRAMENTO—Cunningham, Jno. A.

SAN DIEGO—Sterne Bros. Co.

SAN FRANCISCO—Baker & Hamilton (Engines, Boilers, etc.), 3d & Berry
Compressed Air Machinery Co., Jessie & Ecker
Doble, Abner Co., Fremont & Howard
Dunham, Carrigan & Hayden Co. (Hydraulic, etc.), 131 Kansas
Eby Machinery Co., 604 Mission
FAIRBANKS, MORSE & CO. (Engines, Boilers, Pumps, etc.), 531 Howard. (See adv. index, end of book)
Fish, A. L., 779 Market
Garratt, W. T. & Co., Inc. (Engines, Boilers, Pumps, etc.), Fremont & Natoma
Globe Engineering Co., 1937 Market
Harron, Rickard & McCone (Inc.) (Mining, Saw Mill, Woodworking, Engines, etc.), 436 Market
Hendy, Joshua Iron Works (Engines, Pumps & Mining Machinery), 75 Fremont
Henshaw, Bulkley & Co., 219 Spear
Judson Mfg. Co., 819 Folsom
Krogh Mfg. Co., 2132 Folsom
Livermore, Norman B. & Co. (Engines, Boilers, Pumps, Steam Shovels, Dredges, etc.), 604 Mission

McIntosh & Wolpmann
Marwedel, C. W., 258 9th
Moore, Chas. C. & Co., 63 1st
O'Brien, M. (Flour Mill, Brewery, etc.), 142 1st
Pacific Tool & Supply Co. (Metal Working Mach'y & Supplies), 558 Howard
Risdon Iron Works, Steuart & Folsom
Wagner, Jos. Mfg. Co. (Flour Mill, etc.), 508 Cole
Ward, Fred & Son, 1st & Howard
White, H. S. Machinery Co., 9th & Bryant
Worthington, Hy. R., 148 1st
SAN JOSE—Wight, David, Pierce av

COLORADO.

DENVER—Card & Weber Machine Co., 1443 Blake
Colorado Iron Works Co. (Mining, etc.), 3301 Wynkoop
Davis, F. M. Iron Works Co., 8th & Larimer
Denver Engineering Works Co., c Blake & 30th
FAIRBANKS, MORSE & CO. (Engineer, Boilers, Pumps, etc.), 17th & Itazee. (See adv. index, end of book)
Fielding, Thomas, 1711 Tremont
Flint Lomax Electric & Mfg. Co., 1400 Delgany
Knox, C. W. Machinery Co. (Engines, Boilers, Pumps, etc.), 1625 17th
Mine & Smelter Supply Co. (Engines, Boilers, Pumps, etc.), 17th & Blake
Scott Supply & Tool Co. (Engines, Boilers, Pumps, etc.), 1725 Blake
Stearns-Roger Mfg. Co., 1713 California
Wilkes, Gilbert & Co., 502 McPhee B
LEADVILLE—McCarty & Moore

CONNECTICUT.

HARTFORD—Pickering, W. H. & Co., 110 Commerce
MERIDEN—Runge, Chas. A. (Second Hand Machinery)
NEW HAVEN—MacKenzie, G. M., Water c East

DELAWARE.

WILMINGTON—Delaware Electric & Supply Co. (Engines, Pumps, etc.)
Speakman Supply & Pipe Co., 113 Market

DISTRICT OF COLUMBIA.

WASHINGTON—Littlefield, Alvord & Co., 26th & D N W

FLORIDA.

JACKSONVILLE—Christopher, Jno. G. Co.
Florida Electric Co. (Engines, Boilers, Hubbard, S. B. Co. Dynamos, etc.)
LAKE CITY—Johnson, L. W.

GEORGIA.

ATHENS—Athens Foundry & Machine Works
ATLANTA—Atlanta Supply Co., 29 S Forsyth
Austin, E. W. Co. (Concrete & Stone & Ore Crushing Mach'y, etc.), 70 S Forsyth
Avery & McMillan (Saw Mill, etc.), 70 S Forsyth
De Loach Mill Mfg. Co., 400 Highland av
Malsby Co., 41 S Forsyth
Seitzinger, Thos. F., 447 Marietta
AUGUSTA—Georgia Iron Works
Lomhard Iron Works & Supply Co. (Engines, Boilers, Saw Mills, etc.)
BRUNSWICK—Bay Iron Works
COLUMBUS—Columbus Iron Works Co.
Golden Foundry & Machine Co.
MACON—Findlay Iron Works Co. (Inc.)
Mallory Bros. Machinery Co. (Engines, Boilers, Cotton Gins, Saw Mill Machinery, etc.)
Scofield's, J. S. Sons Co. (Engines, Pumps, Saw Mills, etc.)
ROME—Battley Machinery Co.
SAVANNAH—Georgia Supply Co.
Hartfelder-Garhutt Co. (Engines, Boilers, etc.)
Kehoe, Wm. & Sons (Machinery of all Kinds, Boilers, etc.)
Rourke, Jno. & Sons
TOCCOA—Simpson, D. J.

ILLINOIS.

BLOOMINGTON—Keiser-Van Leer Co. (Engines, Pumps, etc.)
CAIRO—Reed J. B. (Iron Working Tools, etc.)
CHICAGO—Adkins, Young & Alien, 14 N Canal
AMERICAN HOIST & DERRICK Co., 60 S Canal. (See adv. index, end of book)
CARPENTER, GEO. B. & CO. (Hoisting Machinery & Contractors' Supplies), 202 S Water. (See adv. index, end of book)
Carse Bros Co. (Gas & Gasoline Engines, Steam Hammers & Hoisting, Hydraulic & Woodworking Machinery), 64 Wabash av
Castle, A. M. & Co., 55 N Jefferson
Chicago Brick Machinery Co., 77 E Jackson
Chicago Engineer Supply Co., 112 Lake
Chicago House Wrecking Co., 35th & Iron
CONTRACTORS' SUPPLY & EQUIPMENT Co. (Engines, Pumps, Rock Crushers, etc.), Old Colony bldg. (See adv. index, end of book)
Cook & Chick Co., 253 Kinzie
Curtis & Co. Mfg. Co., 42 S Canal
Davis-Johnson Co., 47 S Canal
Erwin & Co., 56 Dearborn
FAIRBANKS, MORSE & CO. (Engines, Boilers, Pumps, etc.), Franklin & Monroe. (See adv. index, end of book)
Gould Co. (Pumps, etc.), 24 N Canal
Gregory Electric Co. (Electric), 16th & Lincoln
Greiner Mfg Co., 72 S Canal
Harris, Sam'l & Co. (Machine Shop Machinery, Tools, etc.), 25 S Clinton
Henion & Hubbell (Pumps, Steam, Power, Electric, Hand, etc.), 63 N Jefferson
Illinois Maintenance Co. (Inc.), Merchants' Loan & Trust bldg
Kaestner & Co. (Inc.) (Engines, Boilers, Pumps, Power Transmission, Shafting, Pulleys, etc.), 241 S Jefferson
Latham Machinery Co., 199 S Canal

McDowell Stocker & Co. (New & Second Hand Machine Tools, etc.), 59 S Canal
 Machinery Exchange, 13 N Canal
 Machinists Supply Co. (Machine Shop Machinery, Tools, etc.), 16 S Canal
MANNING, MAXWELL & MOORE, 22, 24 & 26 S Canal. (See adv. index, end of book)
 Marshall & Huschart Machinery Co., 62 S Canal
 Packard, O. L. Machinery Co., 34 S Canal
 Rich, Fred A. (Woodworking, etc.), 18 S Clinton
 Ryerson, Jos. T. & Son (Inc.), 18 Milwaukee av
 Sargent & Lundy, Railway Ex. bldg
SHAW, WILLIS (New and Second Hand), 171 LaSalle. (See adv. below)
 Skillin & Richards Mfg. Co. (Engines, Boilers, Pumps, Grain Elevator Machinery & Supplies), 127 Fulton
 Street, R. R. & Co. (Engines, Boilers, etc.), 184 Washington
 Williams, E. O. (Second Hand), 68 S Clinton

DECATUR—Union Iron Works
 ELGIN—Hawthorne Hardware Co.
 HOOPESTON—Sprague Canning Machinery Co.
 KEWANEE—*†Peters Pump Co. (Agl. Implement, Pumps, etc.)
 MENDOTA—Mendota Mfg. & Transfer Co.
 PEORIA—Armstrong, Jas. C. (Engines, Pumps, etc.), 1003 S Wash'n
 Peoria Belting Co., 717 S Adams
 ROCKFORD—Savage & Love Co. (Machinery, Boilers, etc.)
 STERLING—Emmitt & Richardson

INDIANA.

BLOOMINGTON—Seward & Co. (Engines, Pumps, etc.)
 EVANSVILLE—Grote Mfg. Co., 116 Fulton av
 Mooney, Jno. B., 223 L 1st
 FORT WAYNE—National Mill Supply Co. (Engines, Boilers, etc.)
 INDIANAPOLIS—Chandler, Geo. M. (Machine Tools, Cranes, Air Compressors, Hoists, etc.)
 Kenney Machinery Co. (Agricultural Machinery), 124 Capitol av S
FAIRBANKS, MORSE & CO., 140 S Meridian. (See adv. index, end of book)
 Indiana Machine & Supply Co., Ingalls blk.
 Vonnegut Hardware Co.
 LAFAYETTE—Wallace Mach. & Fdry Co.
 PRINCETON—Maddocks & Herschel

IOWA.

CEDAR RAPIDS—Carmody, J. T.
 Fawcett, C. E.
 COUNCIL BLUFFS—Sprague Foundry & Mfg. Co.
 DES MOINES—Beckman Bros.
 Des Moines Mfg. & Supply Co.
 Globe Machinery & Supply Co. (Engines, Boilers, Pumps, etc.)
 Iowa Machinery & Supply Co.
 LE MARS—Trenery, C. L. & Co.
 MARSHALLTOWN—Lennox Machine Co.
 OTTUMWA—McDaniel, O. E.
 TIPTON—Tipton Hardware Co.

KANSAS.

ENTERPRISE—Ehram, J. B. & Sons Mfg. Co.
 LEAVENWORTH—Fisher Machine Works Co.

KENTUCKY.

FRANKLIN—Harris & Crowds
 LOUISVILLE—Americau Machine Co., 524 E Main
 Daeuble Mill Machine Co. (Engines, Boilers, etc.)
FAIRBANKS, MORSE & CO. (Engines, Boilers, Pumps, etc.). (See adv. index, end of book)
 Geiser Mfg. Co. (Engines, etc.), 1211 W. Grainger & Co., 141 10th Main
 Hilpp, Meyer H. (New & Second Hand), 513 Joseph, Herman, 316 E Main
 Kockenrath, C. A., 311 E. Main
 McWilliams, Jos. & Co. (Engines, Pumps, Boilers, etc.), 719 W Market
 Pyne, Harry B. & Co., 1109 W. Main
 Pyne, W. T., Mill & Supply Co., 1301 W Main
 Vogt, H. Machine Co., 10th & Ormsby av
 OWNESBORO—Guenther Wright Machine Co. (Engines, Boilers, Saw Mills, etc.)

LOUISIANA.

NEW ORLEANS—**AMERICAN HOIST & Derrick Co.**, Hennen bldg. (See adv. index, end of book)
 Baldwin, A. & Co. (Ltd.), Camp & Common
 Boland (Engines, Pumps, etc.)
 Burt, C. S. Co. (Ltd.), Engines, Boilers, Cotton Gins, Ginning Plants, etc.), 826 Union
 Edwards, Danl. (Engines, Boilers, New & Second Hand Machinery), 1305 Canal
 Fairbanks Co., Camp & St. Joseph
 Gibbens & Stream, 213 Canal
 Hauptman & Loeb (Ltd.) (Engines, Boilers, Pumps, etc., New & Second Hand), 222 St. Peters
 McArdle, Peter H., Erats & Clara
 Murphy, Jno. H. (Engines, Boilers, Pumps, & Sugar & Saw Mill Machinery, etc.), 643 Magazine
 Payne & Joubert (Engines, Boilers, Sugar Machinery, etc.), 423 Carondelet
 SHREVEPORT—Henderson, W. K. Iron Works & Supply Co.
 Means, J. L. Machinery Co. (Engines, Boilers, etc.)

MAINE.

CALAIS—Elliott Machine Co.
 PORTLAND—Adde & Co. (Engines, Boilers, Pumps, Iron & Wood Working Mach'y)
 Barbour, J. & E. R. (Engines, Pumps, etc.)
 Blake, W. L. & Co. (Inc.)
 Portland Co. (Engines, Boilers & General Machinery).

MARYLAND.

BALTIMORE—Aumen Machinery & Supply Co. (Engines, Pumps, etc.), 324 N Holiday
 Basshor, C. A. Co. (Engines, Boilers, Pumps, etc.)
 Carey Machinery & Supply Co. (Engines, Pumps, etc., & Metal & Woodworking Machinery), Lombard & Calvert
 Coggins & Owens, 19 S Charles
 Crook, Horner Co. (Engines, Pumps, Machinery, Tools, etc.), 301 N Howard
 Cuyler & Mohler (Machine Tools, etc.), 611 William

Dugan, Cumberland & Co., Howard & Fadum, Fred'k, 408 W German Barre
 Mallory Machinery Co. (Engines, Boilers, Pumps, Machine Tools, etc.), 314 S Charles
 Meyer, Henry H. Co. (Engines, Boilers, Pumps & Contractors' Machinery, etc.), 110 S Howard
 Standard Supply & Equipment Co., 306 N Holliday
 Stebbins, Wallace & Sons, Charles & Zies, Chas., 316 S Fremont Lombard
 CUMBERLAND—McKaig, Merwin

MASSACHUSETTS.

ARLINGTON—Birch, A.
 BOSTON—Bond, Harold L. Co. (Engines, Pumps, etc.), 140 Pearl
 Byers & Smith, 103 Haverhill
 Carver, Geo. G., 44 Kilby
 Chandler & Farquhar Co., 36 Federal
 Exeter Machine Works, of Exeter, 32 Oliver
 Fairbanks Co. (Machine Tools, Machinery, etc.), 42 Pearl
 Firth, Wm. (Textile), 79 Milk
 Hill, Clarke & Co. (Machine Tools, etc.), 156 Oliver
 Hoey, Thos. Supply & Equipment Co., 399 Atlantic av
 Holmes & Blanchard Co., 33 Wash, N
 Holt, S. L. & Co., 191 High
 Holt, Shattuck & Co. (Engines, Boilers & Wood Working Machinery, etc.), 47 Washington, N
 Houghton, J. H., 77 Oliver
 Jarvis Engineering Co. (Engines, Boilers, etc.), 61 Oliver
 McLaughlin, Geo. G. Mfg. Co., 24 Washington, N
MANNING, MAXWELL & MOORE, (All Kinds), 128 Oliver. (See adv. index, end of book)
 Mason, J. M., 81 Haverhill
 Moore, Frank K. (Woodworking), 259 Dorchester av
 Morton, A. M. & Co. (Engines, Boilers, etc.), 25 Wash'n
 Perrin, Seamans & Co., 57 Oliver
 Pinkham Construction Co., 414 Atlantic av
 Pratt, R. W. & Son, 111 Haverhill
 Prentiss Tool & Supply Co. (Machine Tools), 145 Oliver
 Ridion, Frank Co. (New & Second Hand Dynamos, Motors, Engines, Pumps, etc.), 200 Sumner
 Riley, C. E. Co. (Textile), 65 Franklin
 Roberts, Jas. H. & Co. (Engines, Boilers, etc.), 135 Portland
 Sampson, Geo. H. Co. (Rock Drills, Air Compressors, etc.), 13 Pearl
 Sherburne & Co. (Hydraulic Machinery, etc.), 53 Oliver
 Stoddard, Haserick, Richards & Co. (Textile), 152 Congress
 Thayer & Co., 10 Post Office sq.
 Walworth Mfg. Co., 134 Federal
 Wickes Bros., 37 Fansworth
 CAMBRIDGE—Worthen, Geo. E.
 FALL RIVER—Dunn, Wm. J., 239 Central
 FITCHBURG—Wachusett Machinery Co. (Iron & Woodworking)
 LOWELL—Dana, Geo. R. (New & Second Hand Cotton & Woolen Machinery)
 Scannell Boiler Works
 ORANGE—Chase Turbine Mfg. Co. (Engines, Boilers, etc.)

MACHINERY.

Drivers, Dump Cars, Carts, Graders, Sewer Machines, Relay Rails, Flat and Gondola Cars, Irrigating and Draining Dredge Machines, Centrifugal Dredge Pumps, Traveling Derricks, Cables, Concrete Mixers, Stone Saws and Planers, Coal Mine Hoists, and Machinery generally.

I HANDLE BOTH NEW AND SECOND-HAND MACHINERY.

WILLIS SHAW, 171 La Salle Street, CHICAGO, ILL.

Send for my Bargain Sheet and price list of Hoisting Engines, Air Compressors, Rock Drills, Crushers, Derricks, Wire Cable, Locomotives, Steam Shovels, Pile

PITTSFIELD—Howard & Morrow, 59 North Robbins, Gamwell & Co. (Engines, Pumps, etc.)
SPRINGFIELD—Ford, H. (Engines, Pumps, Brick Machinery, etc.), 964 Main
 Hannan & Finton, 19 Sharon
 Russell, Jno. W. (New & Second Hand Engines, Shafting, Pulleys, etc.), 47 Taylor
WORCESTER—Knight, E. O., 86 Foster

MICHIGAN.

ALMA—Montingel, J. M.
ALPENA—Kline, Lewis T.
BAY CITY—MacKinnon Boiler & Machine Meister, R. & Sons
DETROIT—Commercial Supply Co. (Electrical, New & Second Hand), 47 Park pl
 Detroit Shipbuilding Co. (Brass Dept.), 72 Orleans
FAIRBANKS, MORSE & CO. (Engines, Boilers, Pumps, etc.), 86 Jefferson. (See adv. index, end of book)
 Harvey, A. Sons Mfg. Co., 1st & Woodbridge
 Jefferson Iron Works Co., 7 Jefferson av
 Mithskun, M. Co. (Engines, Boilers, Pumps, etc.), Isabella av & E
 Motch & Merryweather Machinery Co. (Machine Tools, etc.), 707 Lakeside av
 Strelinger, Chas. A. & Co. (Machine Tools & General Machinery), 98 Bates
 Wormer, C. C. Machinery Co. (Engines, Boilers, Pumps, Iron & Wood Working, etc.), 97 Woodbridge, W.
 Wray-Austin Machinery Co. (Engines, Machinery, Boilers, etc.), 173 Woodbridge, W.
GRAND RAPIDS—Adams & Hart, 12 W Bridge
JACKSON—Hutchison, Jno. Mfg. Co.
OWOSSO—Stegall, A.
SAGINAW—Heginbottom & Sons
 Jackson & Church Co.

MINNESOTA.

DULUTH—Duluth Machinery Co.
MINNEAPOLIS—Enterprise Machine Co., 1118 S 3d
FAIRBANKS, MORSE & CO. (Engines, Boilers, Pumps, etc.), 220 Nicollet av. (See adv. index, end of book)
 Harris Machinery Co., Wash. & Univ. av, S. E.
 Howell, R. R. & Co., 124 3d av, N
 Kilgore-Peteler Co., 30th av, S. E., & N. F. R. R.
 Midland Mach'y Co., 412 S 3d
 Northern Machinery Co., 213 S. 3d
 Otto Gas Engine Works, 318 S 3d
ST. PAUL—CONTRACTORS' SUPPLY & Equipment Co. (Engines, Pumps, Rock Crushers, etc.), German American Bank bldg. (See adv. index, end of book)
FAIRBANKS, MORSE & CO. (Engines, Boilers, Pumps, etc.), 234 E 3d. (See adv. index, end of book)
 Roberts-Goss Co., 4th & Pine
 Robertson, J. G., 29 Gilfillan
 Robinson & Cary Co., 4th & Wacouta
 South Park Foundry & Machine Co., 11 Gilfillan blk
 Waterous Engine Co., 62 S Robert

MISSISSIPPI.

CORINTH—Adams, W. T. Machine Co.
MERIDIAN—Hyde, Chas. J.

MISSOURI.

JOPLIN—English Iron Works Co. (Hydraulic Mach'y, etc.)
 Freman F'dry & Mfg. Co. (Engines, Boilers, Pumps & Mining Machinery)
 Manley & Landreth
KANSAS CITY—Black, F. B. Co.
 Borden & Selleck Co., 114 W 3d
 Burton, C. A. Machinery Co., 2d & Main
 Creamery Package Mfg. Co., 1215 W 10th
 English Iron Works Co. (Hydraulic Mach'y, etc.), 408 W 5th
FAIRBANKS, MORSE & CO. (Engines, Boilers, Pumps, etc.), 1217 Union av. (See adv. index, end of book)
 Great Western Mfg. Co., 1221 Union av
 Lewis Supply Co., 1300 W 11th
 Liggett, J. W. & Son, 512 Broadway
 U. S. Water & Steam Supply Co., 1311 W
MOBERLY—Faessler, J. Mfg. Co., 12th
ROCKVILLE—Meyer & Walker

ST. JOSEPH—Richardson, Geo. O. & Co.
ST. LOUIS—Barry-Wehmiller Machinery Co., 21st & Walnut
 Bowman, Albert B. (Metal Working Machinery of all Kinds, Cranes, etc.), 720 N
 Brown Machinery Co., 934 N Main
 Colcord, W. R. Machinery Co. (Machine Tools & Machinery), 823 N 2d
CONTRACTORS SUPPLY & EQUIPMENT Co. (Engines, Pumps, Rock Crushers, etc.), Wainright bldg. (See adv. index, end of book)
 Curtis & Co. Mfg. Co., end of book
 Hamberger & Kinelin
 Ellison, Wm. & Sons Mfg. Co., 1018 N 6th
FAIRBANKS, MORSE & CO. (Engines, Boilers, Pumps, etc.), 8th & Clark av. (See adv. index, end of book)
 Fisher & Davis (Engines, Boilers, Pumps, etc.), 1024 N Main
 Gruendler Machine Co., 928 N Main
 Houston-Stanwood Gamble Co., 715 N 2d
 Johnson, M. P. Machinery Co., 715 N 2d
 Johnson, Wm. C. Sons Mach. Co., 210 Wash'n av
Kingsland Mfg. Co., 1521 N 11th
MANNING, MAXWELL & MOORE, (All Kinds), 305 Frisco bldg. (See adv. index, end of book)
 Nelson, N. O. Mfg. Co., 10th & Chestnut
 Rumsey, L. M. Mfg. Co. (Engines, Pumps, Machine Tools, etc.), 810 N 2d
 Rumsey & Sikemeier Co., 19th & Pine
 St. Louis Belting & Supply Co., 509 S 4th
 St. Louis Machinists' Supply Co. (Machine Tools), 1118 Pine
 St. Louis Steam Engine Co., 16 S. Commercial
 Teuscher & Son Machinery Supply Co., 930 N 2d
 Thompson, C. A. (Iron Workers Tools, etc.), 516 N 3d
 Western Iron Supply Co., 938 N 2d
 Willey, G. A. & Co., 316 S 8th
 Wright, J. W. & Co., 800 N 2d
 Yerkes & Finan Co. (Engines, Boilers & Woodworking Machinery)
 Zelnicker, Walter A. Supply Co. (Saw Mills, Engines, Boilers, Cranes, etc.), 404 N 4th
SPRINGFIELD—United Iron Works Co. (Engines, Boilers, Heaters, Pumps, etc.)

MONTANA.

ANACONDA—Anaconda Copper Mining Co.
BUTTE—Anaconda Copper Mining Co.
 Montana Hardware Co.
GREAT FALLS—Lowery Engineering Co.
HELENA—Holter, A. M. Hdw. Co.

NEBRASKA.

LINCOLN—Cooper & Cole Bros.
 Hedges, C. E.
 Smith, R. L. Machine Works
OMAHA—Ely, Allen P. & Co.
FAIRBANKS, MORSE & CO. (Engines, Boilers, Pumps, etc.), 1102 Farnum. (See adv. index, end of book)

Lehmer, Jos. R. (Engines, Boilers, Pumps, etc.), 1218 Farnum
U. S. Supply Co., 1108 Harney
Western Electrical Co., 1212 Farnum

NEW HAMPSHIRE.

CLAREMONT—Burns, Jno. W.
KEENE—Hubbard, H. W. (Engines, Boilers, etc.)
LANCASTER—Thompson Mfg. Co.
MANCHESTER—Hutchinson, C. H.

NEW JERSEY.

NEWARK—McCune, P. & Sons, 334 Ferry
 Millington & Bradshaw (New & Second Hand Engines & Machinery), 69 N. J. R. R. av
 Newark Second Hand Machinery Co., 81 Chestnut
 Skinner & Leary (Engines, Gearing, etc.), 13 Railroad pl
 Tidey, M. B. (Woodworking Machinery, etc.), 80 Warren
 Walsh's Sons & Co., 260 Washington
PATERSON—Van Winkle, J. A. Co. (Engines, Boilers, etc.)
TRENTON—McFarland Foundry & Machine Co.

NEW YORK.

ALBANY—Albany Brass & Iron Co. (Engines, Boilers, Shafting, etc.), 174 B'way
 Nicholson, Aaron, 11 Church
BINGHAMTON—Gaylord & Eitapence Co. (Engines, Boilers, etc.)
 Shapley & Wells
BROOKLYN—(See New York City, Borough of Brooklyn)
BUFFALO—Alberger, J. L. & Son, Ellicott sq
 Buffalo Machinery Co. (Engines, Boilers, Pumps, etc.), 24 Burwell pl
 Buffalo Tool & Machine Co. (General Dealers), 176 Terrence
 Fairbanks Co., 145 Seneca
 General Mercantile Co.
 Johnson, Chas. F. (Engines, Boilers, Generators, Locomotives, etc.), Ellicott sq
 Queen City Engineering Co., 49 Illinois
 Root, Neal & Co. (Conveying, Elevating & Power Transmitting Appliances), 178
 Stimson, Henry B., 137 Wash'n Main
 Whitman Mfg. Co., 178 Ohio
KINGSTON—Lawton, Wm.
MALONE—Hinds, Thos.
MIDDLETOWN—Coleman, Galen (Engines, Boilers, Mill & General Machinery, etc.)

NEW YORK CITY. Borough of Brooklyn.

BROOKLYN—Brown, Jas. H. (and Second Hand Machinery), 7 Wash'n av
 Saladin, Louis, 1143 DeKalb av
 Smith, Thos. & Son (Second Hand), 64 Frost
 Thomson-Bonney Co. (Inc.) (Electric), 45 York
 Ward & Upright Engineering Co., 41 York



Boroughs of Manhattan & Bronx

NEW YORK—Alexander, Leo & Co. (Purchasing Agents & Exporters), 17 State
American Machinery & Export Co. (Purchasing Agents & Exporters), 114 Liberty
Andrews, Phalon & Co. (Engines, Boilers, & Machinery), 239 West
Bacon, Earle C. (Rock Crushers, Hoisting & Mining Machinery), 26 Cortlandt
Beggs, Jas. & Co. (Engines, Pumps, etc.), 109 Liberty
Bender, Geo. (Electric), 137 Centre
Borne, Chas. A. (Electric), 62 Grand
Briggs, Marvin (Engines & Boilers, Pumps, etc.), 17 Battery pl
Chase, H. M. & H. F., 95 Liberty
CONTRACTORS' SUPPLY & EQUIPMENT Co. (Engines, Pumps, Rock Crushers, etc.), 170 B'way. (See adv. index, end of book)
Donegan & Swift (Engines, Boilers, Pumps, Blowers, etc.), 6 Murray
Dustin, Chas. E. Co. (Electrical & Steam Machinery), 11 B'way
Eaton Co., S. Edw. (Electric), 660 Hudson
Eddy, Geo. B., 398 Madison
Fairbanks Co., Lafayette & Broome
FAIRBANKS, MORSE & CO. (Engines, Boilers, Pumps, etc.), 12 Dey. (See adv. index, end of book)
Francis Bros. & Jellett (Inc.), 47 E 18th
FREVERT MACHINERY CO. (New & Second Hand), 18 Dey. (See adv. on preceding page)
Garrett, W. D. & Co. (Machine Tools & Woodworking Machinery, etc.), 180 Fulton
Garvin Machine Co. (Metal Working, etc.), 139 Varick
Granger, A. D. Co. (Engines, etc.), 90 West
Hall's, Sam'l Sons (Bolts, Nuts, etc.), 229 W. 10th
Hampson, Edw. P. Co. (Engines, etc.), 39
Haring, Wm. F., 126 Liberty Cortlandt
Holcomb, D. S. (Electric), 60 Centre
Humbert, J. S. (Pumping, etc.), 111 Cedar
International Engineering Corporation, 11
Iredell, F. W., 11 B'way Broadway
Jordan Bros. (Electric), 74 Beekman
Kaufman & Co., 86 Centre
Lenher Engineering Co. (Stationary & Hoisting Engines, Boilers, etc.), 39 Cortlandt
Leonard & McCoy ((Engines, Boilers, Pumps, etc.), 161 Wash'n
Love, W. & G. W., 175 Grand
McCabe, Jas. J. (Machine Tools), 14 Dey
McClave, Rimmer & Co., 90 West
McSwegan, F. & Sons, Dover & Franklin sq
MANNING, MAXWELL & MOORE. (All Kinds), 85, 87 & 89 Liberty. (See adv. index, end of book)
Miller, J. D., 39 Cortlandt
Mine & Smelter Supply Co., 43 B'way
Montgomery & Co. (Machinery & Tools), 105 Fulton
Motley, Green & Co., 68 Broad
Niles, Bement, Pond Co. (Machinery, Tools, etc.), 111 B'way
Olney & Warrin (Machinery, Tools & Supplies), 66 Centre
Patterson, Gottfried & Hunter, Ltd. (Machinery & Tools, etc.), 146 Centre
Prentiss Tool & Supply Co., 115 Liberty
Reilly's Sons' Co., James (Electric), 122
Reiss, Edw. S., 32 B'way Centre
Roberts, Geo. I. & Bros., 471 4th av
Rossiter, MacGovern & Co. (Engines, Boilers, Pumps, etc.), 90 West
Rumsey Pump & Machine Co. (Pumps, etc.), 75 Warren
SCHOLL, JULIAN & CO., 126 Liberty. (See adv. index, end of book)
Schutte, Alfred H. (Exporters & Importers), 26 Cortlandt
Stephens & Conrow Co., 180 Fulton
Sullivan, Jno. W. (Engines), 827 9th av.
Thompson, Jos. H., Jr. (Second Hand, Electric, etc.), 17 Battery Pl
TUOHY BROS. CO., 95 Liberty. (See adv. index, end of book)
Van Loan, I. S. Co., 79 E 190th
WATSON, BENJAMIN (Second Hand), 66 Beaver. (See adv. index, end of book)
Wells Engineering Co., 26 Cortlandt
Wickes Bros. (New & Second Hand), 90
Wilhelm-Hall & Co., 125 E 23d West
Wilson & Roake, 261 Front
(END OF NEW YORK CITY)
PEEKSKILL—Naylor Bros.
ROCHESTER—Belting & Machinery Co.
Hey & Co., 429 State
SYRACUSE—Syracuse Supply Co.
TROY—Tolhurst, W. H. & Son (Engines, Boilers, etc.)

NORTH CAROLINA.

CHARLOTTE—Alexander & Garsed
Charlotte Supply Co. (Engines, Boilers, Cotton Mill Machinery, etc.)
Cramer, Stuart W.
Liddell Co.
Mecklenburg Iron Works
Robbins, O. A.
Southern Hdw. Co.
Tompkins, D. A. Co. (Wholesale Dealers)
Washburn, A. H.
DUNN—McKay, Jno. A. Mfg. Co.
GOLDSBORO—Dewey Bros.
NEWBERN—Hyman Supply Co.
RALEIGH—Raleigh Iron Works Co. (Engines, Boilers & Power Plant Installation & Speciality)
SALISBURY—Thompson, P. H.

OHIO.

AKRON—American Scrap Iron Co. (Second-hand Engines, Boilers, Pumps, etc.)
BEDFORD—Kaltenbach & Griess
CANTON—Canton Engineering Co. (Engines, Boilers, Metal Working Machinery, etc.)
Crevoisie, R. H. (Engines, etc., all Kinds)
CINCINNATI—Barnes, Chas. Co., 55 Main
Economy Machinery Co. (J. H. Flynn, Prop.)
(New & Second Hand Engines, Machine Tools, Woodworking & Saw Mill Machinery, etc.)
FAIRBANKS, MORSE & CO. (Engines, Boilers, Pumps, etc.), 307 Walnut. (See adv. index, end of book)
Federspill, Chas. Machinery Co., 238 B'way
Johnston, Wm. T. Co. (Engines, Pumps, Blowers, etc.), 522 Main
KINSEY, E. A. CO (Metal Working Machinery, etc.), 331 W. 4th. (See adv. index, end of book)
Motch & Merryweather M'ch'ry Co. (Machine Tools, etc.)
Norton, C. H. Machinery Co., Perin bldg
Queen City Supply Co. (Machine Tools & Machinery), Pearl & Elm
Randle Machinery Co. (All Kinds of New & Second Hand Re-Built Machinery).
Powers & C. H. & D. R'y
CLEVELAND—**BARTLETT, C. O. & SNOW** Co. (See adv. index, end of book)
FAIRBANKS, MORSE & CO. (Engines, Boilers, Pumps, etc.), 1354 W. 9th. (See adv. index, end of book)
MANNING, MAXWELL & MOORE, (All Kinds), Williamson bldg. (See adv. index, end of book)
Motch & Merryweather Machinery Co. (Machine Tools, etc.)
PATTISON, W. M. SUPPLY CO. (Engines, Boilers, etc.), 197-211 St. Clair av. (See adv. index, end of book)
Standard Machinery & Equipment Co. (Engines, Boilers, Machine Tools, Motors, Locomotives, etc.), Electric bldg
STRONG, CARLISLE & HAMMOND Co. (Machine Tools, Engines, etc.), 333-344 Frankfort av., N. W. (See adv. index, end of book)
Worthington, Geo. Co., 802 St. Clair av., N. W.
COLUMBUS—Columbus Tool & Supply Co., 168 N. 3d
Eaton Machine Works, 98 W Broad
Kilbourne, A. W., 450 W. Spring
Larkin, M. D. Supply Co.
Miami Valley Mill & Mine Supply Co.
Miller, W. H. & Co., 80 W. Broad
Reilly, John J. & Co., Col. Savings & Trust bldg
Sackett Mine Supply Co. (Mining Machinery, etc.)
Standish Machine & Supply Co., Columbus, Ohio
Weinman Machine Works, 21 N Scioto
DAYTON—Gumperling, J. E., Jr., Riebold bldg
Patterson Tool & Supply Co. (Machine Tools & Machinery of All Kinds)
GREENVILLE—Ross Supply Co. (Gasoline Engines, Pumps, Wind Engines, etc.)
MARIETTA—Ohio Valley Supply Co.
Pattin Bros. Co.
SPRINGFIELD—Casey, D. L. Machine Co.
TCLEDO—Arbuckle-Ryan Co. (Inc.) (Engines, Boilers, Pumps, etc.)
National Supply Co.
Shaw-Kendall Engineering Co. (Engines, Boilers, etc., New), Superior & Swan Creek

OKLAHOMA TERRITORY.

OKLAHOMA—Sherman, N. S. Machinery Co.

OREGON.

CANBY—Kocher, Andrew
PORTLAND—Arthur, J. M. & Co., ft. E Taylor
Bell & Wildman, 29 1st, N
Dayton Hdw. Co., 1st & Taylor
FAIRBANKS, MORSE & CO. (Engines, Boilers, Pumps, etc.), 1st & Stark. (See adv. index, end of book)
Gauld Co. (Engines, Pumps, etc.)
Heintz, A. R. & Co., E. 3d & Burnside
Honeyman, Jno. & Co., 301 Front
Mitchell, Lewis & Staver Co., 1st & Taylor
Portland Iron Works, 495 Northrup
Portland Machinery Co., 62 1st
Tatum & Bowen, 35 1st
Western Supply Co. (Flour & Saw Mill Machinery)

PENNSYLVANIA.

ALLEGHENY—Carlin Machinery & Supply Co.
CARLIN'S, THOS. SONS CO., 1600 River av. (See adv. index, end of book)
Young, Jno. S., 108 Parkway
ALLENTOWN—Allentown Foundry & Machine Works (Engines, Boilers, etc.)
GRAMMES, L. F. & SONS (Engines & Power Transmitting Appliance, etc.) (See adv. index, end of book)
Taylor, Wm. H. & Co. (Engines, Boilers, Yeakel, S. H. Pumps, etc.)
BEAVER FALLS—Pettler, P. & Son (Gas & Steam Engines)
BRADFORD—Bovaird & Seyfang Mfg. Co.
McElwaine Co.
CHESTER—Birtwell, H. B.
DOYLESTOWN—Rufe Bros.
ERIE—Erie Machine Shops, 13th & Peach
Erie Mfg. & Supply Co. (Engines, Boilers, etc.)
Link, E. M. Machinery Co. (Engines, Boilers, Saw Mill Machinery, etc.)
HARRISBURG—Gardner, Chas. H.
McKills, A. (Machinery, Pulleys, Hangers, Mather, Edmund etc.)
HAZLETON—Hazleton Machy & Supply Co.
HOLLIDAYSBURG—McLanahan Stone Machine Co.
LANCASTER—Central Machine Works.
Hahn, J. F. (Engines, Boilers, Pumps & Machinery)
LATROBE—Saxman, P. H.
MAUCH CHUNK—Stroh, W. H. (Est. of)
OIL CITY—Logan, Robert (Engines, Boilers & Machinery)
PHILADELPHIA—Baily, R. M. & Co. (Locomotive Cranes, Steam Shovels, Hoisting Engines, Boiler Making, Ship Building, Structural Work, Machinery, etc.), Arch
Bldg
Bond, Chas. (Power Transmitting, etc.), 520
Bowman, H. L. & Co., 31 S. 4th Arch
Burchfield, T. T. Co. (Engines, Boilers, Pumps, etc.), Perry bldg
Campbell, T. J., 974 Beach
Conard, Thos. P. & Co. (New & Second Hand), 2 S. 15th
Dallett & Co. (Locomotives, Steam Shovels, etc.), Harrison bldg.
Eckbold, Wm. Sons, 707 E. Girard av
Fairbank Co., 701 Arch
Francis Bros. & Jellett (Inc.), N Broad & Wallace
Fraser, E. L. (Machinery & Tools), 622
Gifford, C. H. & Co., 135 N 3d Arch
Haddock, Chas., 343 N. 3d
Henning, Jno. & Son, 1016 E Susquehanna av
Hill, Clark & Co. (Iron & Woodworking), Bourse bldg
Hitner's, Henry A. Sons Co., Pennsylvania bldg
Jefferson, Edw. & Bro. (Machine & Mill Furnishers), 127 S 2d
Kalser, A. V. & Co. (Second Hand Engines, Pumps, Locomotive Boilers, Air Compressors, etc.), Drexel bldg
Lamb, J. K. (Textile), 246 Chestnut
Latimer, R. L. & Co. (Engines, Boilers, Pumps, etc.), 24 N Front
Lovegrove & Co. (Engines, Boilers, Machinery & Machine Tools), 143 N 3d
MANNING, MAXWELL & MOORE (All Kinds), 721 Arch. (See adv. index, end of book)
Mitchell, J. H., 821 N 13th
Nuttall, Jno., 1723 N 5th
Purves Machinery & Iron Co., South c Water
Rich, J. & G., 120 N 6th
Scattergood, D. & Co., 301 Arch
Schmitt, Jos. L., 1501 N 2d
Sciple Boiler & Engine Co., 301 Arch

Seyfert's, L. F. Sons, 437 N 3d
Smith, Geo. A. Machinery Co., 415 Arch
Swoboda, C. & H., 419 N 3d
Thayer & Co. (Inc.), 1232 Commerce
Thomas, Ervin, 1114 Frankford av
Toomey, Frank (Engines, Pumps & Machinery), 127 N 3d

PITTSBURG—Baird Machinery Co., 123 Water

Brown & Zotman Machinery Co. (Machine Tools, etc.)

CONTRACTORS' SUPPLY & EQUIPMENT CO. (Engines, Pumps, Rock Crushers, etc.), Victoria bldg. (See adv. index, end of book)

Dravo, Doyle & Co., Lewis bldg.
Hay's, Sam'l W. Sons, Farmers' Bank bldg

Frick & Lindsay Co. (Engines, Boilers, Pumps, etc.), 109 Wood

MANNING, MAXWELL & MOORE (All Kinds), Park bldg. (See adv. index, end of book)

OIL WELL SUPPLY CO., 215 Water. (See adv. index, end of book)

Pittsburg Gage & Supply Co. (Engines, Pumps, etc.), 309 Water

Rees, Jas. & Sons Co., 18 4th
Renton, Wm., 101 Water

Russell Machine Co., 28th & A. V. R'y
Smith, Chas. G. Co., Park bldg.

Somers, Fittler & Todd Co. (Engines, Boilers, Pumps & Mach'y), 327 Water
Tranter Mfg. Co. (Engines, Pumps, etc.), 105 Water

POTTSVILLE—Sparks & Parker
READING—Seibert, Jno. H. (Engines, Pumps, etc.), 116 Washington

Xander Machine & Supply Co. (Ltd.)
SCRANTON—Derry, A. L. & Co. (Engines, Boilers, etc.)

Scott, Chas. B., 119 Franklin
Scranton Mercantile Co.
Scranton Supply & Machinery Co. (Engines, Pumps & Machinery)

SMITH'S FERRY—Childs, Jno. (Oil & Gas Well etc.)

TUNKHANNOCK—Billings, Paul & Sons
WAYNESBORO—Yost, G. M. Co.

WILKES-BARRE—Penna Supply Co. (Engines, Pumps & Machinery)

WILLIAMSPORT—Darling Pump & Mfg. Co.
Link, Jas. H. Machinery Co. (Second Hand Saw Mill)

Moltz, Jacob J. (Engines, Boilers, etc.)

RHODE ISLAND.

PROVIDENCE—Thomas & Lowe Machinery Co. (Engines, Pumps, Boilers, etc.)
Thornton, Machinery Co.

SOUTH CAROLINA.

CHARLESTON—Bailey-Lebby Co.
Cameron & Barkley Co. (Engines, Pumps & Machinery), 162 Meeting
Charleston Iron Works (Engines, Pumps & Machinery)

Pitcher, C. S. (Engines, Boilers, Pumps, Riverside Iron Works & Machinery)
Valk & Mnrdoch Iron Works (Engines, Boilers, Pumps, etc.)

COLUMBIA—Gibbes Mach. Co.
SPARTANBURG—Morgan Wood & Iron Works
Spartanburg Machinery Co. (Engines, Boilers, Pumps, etc.)

SOUTH DAKOTA.

RAPID CITY—Congdon, G. S. Hdw. Co.

TENNESSEE.

CHATTANOOGA—Chattanooga Machinery Co.
James Supply Co. Montgomery av
Walsh & Weidner Boiler Co., Montgomery av & Syramore

KNOXVILLE—Ruof, Wendel
Southern Brass & Iron Co.

MEMPHIS—Chickasaw Iron Works (Engines, Pumps & Machinery)
Riechman-Crosby Co. (Pumps, Logging Tools & Lumber Mfrs. Supplies, etc.)

NASHVILLE—Dale, Jno. P. (Engines, Pumps, etc.)
Nashville Machine Co.
Stewart & Bruckner

TEXAS.

BASTROP—Crompton, J. B.
BEAUMONT—Wilson, E. L. Hdw. Co.
BRENNHAM—Roff & Miller
BRYAN—Chatham Machinery Co.

CUERO—Runge, H. & Co.
DALLAS—American Well Wks., 168 Commerce

Aultman & Taylor, Pacific av & Lamar
Briggs-Weaver Machinery Co.

Graber, H. W.
Keating Implement Co., 106 N Jefferson

Mosher Mfg. Co., Lemar & Santa Fe
Wolfe, Ben F. & Co., 175 Main
Young, Heintz & Co., 181 Elm

EL PASO—Mine & Smelter Supply Co.
FORT WORTH—Abbott, Jno. T. Mach'y Co. (New & Second Hand)

Axtell, Fred. W. (Wind Mills, Tanks, etc.)
Brown, T. M. & Co. (Wind Mills, Pumps, Tanks, etc.)

Southern Trading Co.
Texas Mfg. Co.

Van Zandt-Moore Iron Works (Engines, Boilers, Pumps, Dynamos, Motors, etc.)
Wares, Dudley & Co. (Engines, Pumps, Saw Mills, etc.)

GALVESTON—Astell Iron Works Co.
HOUSTON—Barden Electric & Machine Co.

Hartwell Iron Works
Heitman, F. W. Co., 113 Main
Smith, Howard & Co. (Engines, Boilers, Pumps, etc.)

LUFKIN—Lufkin Foundry & Machine Co.
PALESTINE—Dilley, Geo. M. & Son

PARIS—Collins & Dulaney
SAN ANTONIO—Alamo Iron Works
Gnuther Foundry, Machine & Supply Co.

San Antonio Machine & Supply Co.
TYLER—Connally, Walter & Co.

Smith-Palmore Machinery Co.
WACO—Kellett-Chatham Machinery Co.

UTAH.

SALT LAKE CITY—FAIRBANKS, MORSE & Co. (Engines, Boilers, Pumps, etc.), 218 S. W. Temple. (See adv. index, end of book)

Mine & Smelter Supply Co.
Salt Lake Hdw. Co.

Silver Bros. Iron Wks Foundry
Silver, Hynum A., Foundry & Machine Co. (Mining, Milling, Smelting, etc.)

Trent Engineering & Machinery Co.
Utah Mining Machinery & Supply Co.

VERMONT.

BENNINGTON—Scott, Olin
CHESTER—Stearns, F. H. Mfg. & Supply Co.

VIRGINIA.

MANCHESTER—Whitlock, J. G. Machine Co.
NORFOLK—Duvall, Geo. W. & Co., 380 Water

Lumley-Dodson Co. (Engines, Boilers, Pumps, etc.), 191 Water

Mayer & Co. (Engines, Boilers, etc.), 74 Commercial pl

Perry Machine Works, 301 Water
Price, S. M. Machinery Co.

Walke, Henry Co. (Engines, Boilers, etc.), 286 Water
Westbrook, Jno. D., 265 Water

PETERSBURG—Stockdell-Myers Hdw. Co.
Stratton-Bragg Co. (Engines, Boilers, Pumps, etc.)

RICHMOND—Cameron-Tennant Machine Wks, 2404 E Main

Frischkorn, Hunter B., 801 E Cary
Morrison Machinery & Supply Co. (All Kinds)

Richmond Belting & Machinery Co., 17½ S 8th
Smith-Courtney Co. (Engines, Boilers, etc.), 1418 E Carey

WASHINGTON.

OLYMPIA—Mason, C. Z.
SEATTLE—Caldwell Bros. Co.

Caldwell Bros. Co.
Hallide Machinery Co. (Engines, Boilers, Pumps, etc.)

Mitchell, Lewis & Staver Co.
Moore, Chas. C. & Co.

Pngot Sonnd Machinery Depot
Star Machinery Co.

SPOKANE—Bradley Engineering & Machinery Co.

FAIRBANKS, MORSE & CO. (Engines, Pumps, Boilers, etc.) (See adv. index, end of book)

Mitchell, Lewis & Staver Co.
National Iron Works
Spokane Hardware Co.

Union Iron Works (Inc.), (Mining Machinery, Engines, etc.)
TACOMA—Caldwell Bros. Co. (Mine Waterworks, etc.)

Tacoma Machinery & Supply Co.

WEST VIRGINIA.

CHARLESTON—Capitol City Supply Co.
South Side Foundry & Mach. Works
CLARKSBURG—Osborn's, J. F. Sons
HUNTINGTON—Miller Supply Co.
WESTON—Danser, W. C.
WHEELING—Howe, A. D., Machinery Supply Co.

WISCONSIN.

ASHLAND—Bretting, C. G. Mfg. Co. (Mill Machinery, etc.)

BARABOO—Farnum, Chas. H.
MADISON—King & Walker Co. (Engines Pumps & Machinery)

MILWAUKEE—Galiand-Henning Pneumatic Malting Drum Mfg. Co., Virg. & S Water

Grotenrath, Fred, 111 W Water
Hide & Leather Working Mach. Co. (Hide & Leather Working Machinery, etc.)

Lauson, C. P. & J. Mill Machinery, 103 W Water

Milwaukee Machinery Co., 31st & Walnut
Packard, O. L. Machinery Co. (Wood & Iron Working Machinery), 165 W Water

Vaughn Mirrow Machine Co., 508 Commerce
Wisconsin Machinery & Mfg. Co., Canal, nr Muskego

Yale, H. P. & Co. (Engines, Pumps, etc.), 99 W. Water

PINE RIVER—Kimball, A. M. & Son
RACINE—Racine Engine & Machinery Co.

STEVENS POINT—Cook, R. A.
WAUSAU—Murray, D. J. Mfg. Co.

Machinery (Second Hand)

(See Machinery Dealers, New & Second Hand)

Machinists' Fine Tools

(See Specific Article Wanted)

Machinists & Founders

Star (*) indicates Machinists.
Dagger (†) indicates Founders
Star & Dagger (*†) indicates Machinists & Founders.

Section Mark (§) indicates Brass & Composition Founders.

All manufacturers of Machinery, Castings, etc., who have a machine shop or foundry are classified under this heading and sub-classified in other parts of the book under the specific article they produce, such as:

Agricultural Implement Mfrs.
Brick Machinery, etc.
Cars, various kinds.
Cast Iron Pipe, various kinds.
Castings, various kinds.
Cranes, various kinds.
Drills, various kinds.
Dynamos & Motors.
Elevators.
Engines, various kinds.
Flour Mill Machinery.
Founders, Malleable Iron.
Gears, various kinds.
Grinders, various kinds.
Hammers, various kinds.
Harrows, sub-classification of Agricultural Implements.

Heaters, Steam & Hot Water.
Ice & Refrigerating Machinery.
Lathes, various kinds.
Mining Machinery.
Paper & Pulp Mill Machinery.
Plow Mfrs., sub-classification of Agricultural Implements.

Plumbers' Brass Goods.
Presses, various kinds.
Radiator Mfrs.
Rolling Mill Machinery.
Saw Mill Machinery.
Special Machinery.
Steel Structural Work.
Stove Mfrs.
Textile Machinery.
Valve Mfrs., various kinds.
Wheels, various kinds.
Woodworking Machinery, and hundreds of other articles too numerous to mention.

For correlative trades not included under head of Machinists & Founders see:

Automobile Builders.
Boilers, Steam, etc.
Bolt & Nut & Rivet Mfrs.
Bridge Builders, Steel.
Chains, various kinds.
Cutlery Mfrs.

Forgings, various kinds.
Furnace Mfrs., Hot Air, etc.
Gas Machines, various kinds.
Gas & Electric Fixture Mfrs.
Hardware Mfrs.
Nuts, various kinds.
Rolling Mills & Steel Mfrs.
Saw Mfrs.
Screw Mfrs.

For all other kindred classifications consult
Index of Contents.

ALABAMA.

ALEXANDER CITY—*†Douglas-Stewart Foundry & Machine Works
ANDALUSIA—*†Andalusia Foundry & Machine Shop
ANNISTON—*†Alabama Frog & Switch Co. (Frogs, Switches & Crossings)
*†Anniston Foundry & Machine Co.
*†Central Foundry Co. (See New York)
*†Kilby Locomotive & Machine Works (Logging Locomotives, Cars, Wheels & Axles)
*†Lewis Iron Works (Iron Founders & Machinists)
*†U. S. Cast Iron Pipe & Foundry Co. (See New York)
*†Western Steel Car & Foundry Co. (See Chicago, Ill.)
ATTALLA—*†Attalla Foundry & Mach. Co.
AVONDALE—*†Avondale Stove & Foundry Co.
*†Enterprise Foundry Co. (Stoves)
BESSEMER—*†Bessemer Foundry & Machine Co.
*†Bessemer Soil Pipe Co. (Cast Iron Soil Pipe)
*†Central Foundry Co. (See New York)
*†U. S. Cast Iron Pipe & Foundry Co. (See New York)
BIRMINGHAM—*†A'dale Stove & Foundry Co., A'dale
*†American Cast Iron Pipe Co.
*†American Casting Co.
*†Anderson, G. L. Brass Works
*†Beatty Bros.
*†Beggs Pipe & Foundry Co. (Cast Iron Pipe)
*†Birmingham Machine & Foundry Co. (Steam Engines, etc.)
*†Birmingham Pipe & Casting Co. (Soil Pipe & Fittings & Castings)
*†Birmingham Rail & Locomotive Co.
*†Birmingham Steel & Iron Co.
*†Birmingham Stove & Foundry Co. (Stoves, etc.)
*†Caldwell-Watson Fdry. & Mach. Co.
*†Continental Gin Co. (Cotton Gins, etc.)
*†Decatur Car Wheel & Mfg. Co.
*†Dimnick Pipe Co. (Cast Iron Pipe for Gas & Water, Hydrants, Valves, etc.)
*†Eureka Stove Works
*†Gibb, Valentine & Son. (Brass Foundry)
*†Hardie Tynes Mfg. Co. (Corliss Engines, etc.)
*†Johnson, T. F., E Birmingham
*†Johns & Steward
*†Kilby Frog & Switch Co.
*†Linn Iron Works
*†Payne & Joubert Machine & Foundry Co.
*†Republic Iron & Steel Co. (See Chicago, Ill.)
*†Richards Iron Works
*†Sloss-Sheffield Steel & Iron Co. (Also Mfrs. of Iron & Steel)
*†Southern Pipe & Fdry. Co. (Cast Iron Pipe)
*†Southern Steel Co.
*†Stockham Pipe & Fittings Co. (Cast Iron Soil Pipe & Fittings, Steam Fittings, etc.)
*†Tennessee Coal, Iron & R. R. Co. (Steel Castings, etc.)
*†Union Foundry & Machine Co.
*†White, Blakeslee Mfg. Co. (Gas Engines & Veneer Cutting Machines, etc.)
*†Williamson Iron Co. (Engines, Builders' Castings, etc.)
BOAZ—*†Williamson, E. G.
BREWTON—*†Brewton Iron Works
BRIDGEPORT—*†De Loach Mill Mfg. Co. (Saw Mills, etc.)
*†Gunter Stove & Range Co. (Stoves)
COLUMBIA—*†Jones, A. A.
CULLMAN—*†Ehrensperger, H. (Brass Fdry. & Machinist)
DECATUR—*†Jervis Foundry & Machine Co.
DEMOPOLIS—*†Demopolis Foundry & Machine Shop
DOTHAM—*†Dotham Foundry & Machine Co.
ENSLEY—*†Empire Plow Co. (See Cleveland, O.)
*†Tennessee Coal, Iron & R. R. Co.
EVERGREEN—*†Alabama Planter Co. (Agr'l Impls.)
FLORENCE—*†Thoele, Phillips Mfr. Co. (Stoves)

FORT PAYNE—*†Fort Payne Stove & Foundry Co. (Stoves, etc.)
GADSDEN—*†A. & J. Mfg. Co. (Stove)
*†Alabama Iron & Steel Co.
*†Campbell Mfg. & Supply Co. (Plumbers' Supplies, etc.)
*†Coosa Pipe & Foundry Co.
*†Gadsden Foundry Co.
*†Gadsden Pipe & Foundry Co. (Soil Pipe, etc.)
*†Proctor Foundry & Machine Works
*†Ward-Weller Mfg. Co.
GREENVILLE—*†Henderson, C. C. Machine Co.
HARTSELLS—*†Hartsells Machine Co.
HUNTSVILLE—*†Huntsville Foundry & Machine Works (Iron & Brass Fdrs.)
LINEVILLE—*†Swift, E. S.
MOBILE—*†Alabama Iron Works (Iron & Brass Fdrs.)
*†Bailey Iron Works
*†Bay City Machine Works
*†Buerger, August (Machinist)
*†Home Industry Iron Works
*†Louisville & Nashville R. R. Foundry & Machine Shops
*†Mobile Foundry Co.
*†Mobile Hydraulic Works
*†Mobile Stove & Pulley Mfg. Co. (Stoves, etc.)
*†Ollinger-Bruce Dry Dock Co.
*†Union Iron Works
MONTGOMERY—*†Capitol City Machine Wks.
*†Janney & Co. (Engines, Saw Mills, Grate Bars, Brass & Iron Castings, etc.)
MORRISVILLE—*†Morris Mfg. Co.
NEW DECATUR—*†North Alabama Engineering Co. (Engines, Castings, etc.)
NORTH BIRMINGHAM—*†Birmingham Frog & Cannon Pump Mfg. Co. Crossing Works
*†North Birmingham Forge Co.
OZARK—*†Ozark Machine Co.
SELMA—*†Peacock Iron Works (Engines, Cars, etc.)
*†Union Iron Works Co. (Engines, Locomotives rebuilt, etc.)
SHEFFIELD—*†King Stove & Range Works
*†Lowman Lizzie Co. (Stoves)
*†Sheffield Cast Iron Pipe & Foundry Co.
*†Sheffield Casting & Mfg. Co. (Castings, etc.)
*†Sheffield Iron Works
*†Sheffield Steel Range & Stove Co. (Stoves)
*†Stanford Steel Range Co. (Steel Ranges, etc.)
TUSCALOOSA—*†Daniel Bros. Machine Co.
*†Tuscaloosa Foundry & Machine Co.
TUSCUMBIA—*†Rowland, T. T. & Son (Cultivators)
WOODLAWN—*†Perryman & Co. (Inc.) (Cotton Seed Machinery)

ARIZONA.

GLOBE—*†Droff, Frank J.
JUNEAU—*†Forrest, George F.
KETCHIKAN—*†Schlothman Bros.
NOGALES—*†Arizona & Sonora Mfg. Co. Mining Machinery, Castings, etc.)
NOME—*†Reed, Charles W.
PHOENIX—*†Arizona Iron Works
*†Kunz Bros. & Messinger
Phoenix Machine & Cold Storage Co.
*†Williscroft, Geo. R.
PRESCOTT—*†Prescott Iron Works
*†Tilton, B. (Machine Shop)
TUSCON—*†Deirig, M. W. (Machine Shop)
*†Gardiner, Worthen & Goss Co.

ARKANSAS.

BATESVILLE—*†Kealer, G. H.
BRINKLEY—*†Brinkley Car Works & Mfg. Co.
CAMDEN—*†Waters Foundry Co.
CLARENDON—*†Allen, W. J.
*†Galloway, J. B. Co. (Plow Beams, etc.)
CORNING—*†Canfield, R. W.
COTTON PLANT—*†Bowen, R. E.
DARDENELLE—*†Cox, Thos. Machinery Co.
*†Partin, W. E.
FAYETTEVILLE—*†Fayetteville Iron Works & Machine Shop
*†McLendon, J. W.
FOREMAN—*†Ames. Shovel & Tool Co. (of Boston, Mass.)
FORT SMITH—*†Ketcham Iron Co. (Engines, etc.)
*†Mehlberger Iron Co.
HARRISON—*†Harrison Foundry & Machine Co.
HELENA—*†Allin Machine Works
JONESBORO—*†Burns Boiler & Machine Co.
LITTLE ROCK—*†Dickinson Ball Bearing Wheel & Vehicle Co. (Ball Bearing Wheels)
*†Little Rock Boiler and Iron Works.
*†Southern Machine Co.
*†Thomas-Fordyce Mfg. Co.
*†Wing & Stephens Co. (Engines, etc.)
MADISON—*†Madison Plow Co. (Agr'l Impls.)
MORRILLTON—*†Lachowsky, A. A.

PARAGOULD—*†Roy Plow Co. (Plows, etc.)
*†Merriwether-Wrape Machine Co.
PINE BLUFF—*†Dilley Foundry Co. (Saw Mill Machinery, Castings, etc.)
*†Lelaurin, A. A.
*†Pine Bluff Iron Works (Iron & Brass Founders)
POCAHONTAS—*†Pocahontas Bending Works.
RECTOR—*†Harper, J. C.
RUSSELLVILLE—*†Sauerman & Ball
STAMPS—*†Winnifield Iron Works
TEXARKANA—*†De Marce, Mrs. A. (Engines, Castings, etc.)
*†Texarkana Iron Works
*†Twin City Foundry & Machine Co.
VAN BUREN—*†Morell, Jas.

CALIFORNIA.

ALAMEDA—*†Neilson, H. P.
*†Hercules Gas Engine Works (Gas Engines, etc.)
ALTAVILLE—*†Angels Iron Works
BAKERSFIELD—*†Bakersfield Iron Works
BENICIA—*†Benicia Iron Works (Plows, Cultivators, Harrows, etc.)
BERKELEY—*†Berkeley Iron Works, W. B.
*†Macauley, H. C. Foundry Co.
*†West Berkeley Machine Works
CHICO—*†Mery, M. L.
*†Bullard, Walter (Hay Presses, etc.)
CHINO—*†Lenert & Coe
COALINGA—*†Bunting Iron Works
*†Coalinga Iron Works
COLUSA—*†Wulff, Frank
CORNING—*†Vaughn Range Mfg. Co. (Stoves)
DANVILLE—*†Mitchell, A. H.
DOLGEVILLE—*†Tellerday Mfg. Co. (Steel Pipes, etc.)
EMERYVILLE—*†Johnson Mfg. Co.
ETNA—*†Etna Foundry (Inc.)
EUREKA—*†California Iron Works (Inc.)
*†Eureka Foundry Co.
FRESNO—*†Central California Machine Wks.
*†Burnett, J. H. (Gas Engines, etc.)
*†Fresno Agricultural Works (Inc.) (Agricultural Implements)
*†Fresno Motor Co. (Gas Generators, etc.)
*†Hynes & Hollis (Gas Generators, etc.)
*†Traves, Chas. E. (Machinist & Foundry)
*†Valley Foundry & Machine Works
*†Woodward, Roy J.
*†Woodward, R. W. & Co. (Machinists & Agricultural Implements)
FULLERTON—*†Hiltcher, J. F. & Co.
GALT—*†Ames, A. T. (Pumps, Wind Mills, etc.)
GOLETA—*†Malers, G. F.
GRASS VALLEY—*†Lakeman, J. M.
*†Taylor Foundry & Engineering Co. (Mining Machinery, Steam Engines, Building Castings, etc.)
GREENVILLE—*†Anderson, Alex.
HANFORD—*†Isaac, F. N. (Agl. Imp., etc.)
HOLLISTER—*†Shackelford, F. M.
LONGBEACH—*†Butler, F. G. Co. (Acetylene Machinery, etc.)
LOS ANGELES—*†Acme Brass Works
*†Advance Machine Co.
*†American Engineering & Foundry Co.
*†Axelson Machine Co. (Brass Fdrs. & Machinists)
*†Bailey Ornamental Iron Co.
*†Baker Iron Works
*†Brown-Winstanley Mfg. Co. (Machinery Specialties)
*†Bruce, Thos. P. (Plumbers' Goods)
*†Buttress Machine Works
*†Commercial Engine Co., 953 N Main
*†Dixon Machine Works (Oil Burners, General Machinists)
*†Enterprise Machine Works
*†Flower, Clement J.
*†Fulton Engine Works (Inc.) (Mining, Oil Well & Saw Mill Machinery & Iron & Brass Castings, etc.)
*†Hutchison, W. G. Co. (Brass Fdrs, etc.)
*†Johnson Foundry & Machine Works
*†Jones, Jas. Co. (Brass Fdrs.)
*†Keystone Iron Works
*†Killefer-Griffith Mfg. Co. (Cultivators, etc.)
*†Lacy Mfg. Co. (Iron Pipe, etc.)
*†Leach, H. M.
*†Llewellyn Iron Works (Iron & Brass Founders, etc.)
*†Los Angeles Foundry Co.
*†Los Angeles Gas & Elec. Fixture Mch. Co. (Brass Fdrs, etc.)
*†Los Angeles Ice Machine Works (Ice Machines & "Stone" Pipe & Automobile Wrenches)
*†Luitweller Pumping Engine Co. (Pumping Machinery, etc.)
*†McCan Mechanical Works (Iron & Brass Foundry, Pattern Shop, Machine Shop, etc.)
*†Maine Machine Works
*†Meese & Gottfried Co. (Pulleys, etc.)
*†McCabe, P. B. & Co. (Concentrators)
*†Mills Iron Works

*Pacific Coast Mfg. Co.
 *Pacific Electric Railway Co.
 *Pacific Stove Co. (Stoves, etc.)
 *Pacific Surgical Mfg. Co. (Surgical Instruments)
 *Pilgrim Iron Works (Rock Crushers, Power Transmission, Hoists & all kinds of Mining Machinery)
 *Pioneer Boiler & Machine Works (Machinists)
 *Pogue & Storm
 *Regan Bros.
 *Simonds, F. K. Co. (Iron Pipe, etc.)
 *Sjostrom, Victor
 *Stearns Gas Engine Works (Engines, Plows & Pumps)
 *Stewart, A. C. Co.
 *Tennessee Iron Works
 *Thacker, F. L.
 *Thomson & Boyle Co. (Cast Iron Pipe)
 *Titus Iron Works
 *Trinkeller, E. (Ornamental Iron)
 *Union Iron Works (of Los Angeles)
 *Union Oil Tool Co. (Oil Well Tools)
 *United Casting Co.
 *United Iron Works (Centrifugal Pumps & Mining Machinery, etc.)
 *Universal Machine & Tool Works
 *Vulcan Iron & Tool Works
 *Waite, Bailie & Co. (Inc.)
 *Wallace-Lindsmith Hoist Co.
 *Washington Iron Works
 *Western Gas Engine Co. (Gas Engines)
 MARYSVILLE—*Empire Foundry & Harvester Works (Harvesters, Castings, etc.)
 *Ogden, Joseph G.
 MELROSE—*Patterson, E. R. & Co.
 MONTAGUE—*Florence, John
 *McClellan, A. H.
 MONTEREY—*Pickles, S.
 NAPA—*Lindow, W. J.
 *Wolf, J. J.
 NEEDLES—*Needles Machine Works
 NEVADA—*Martin-Muir Co. (Foundry)
 OAKLAND—*Atlas Gas Engine Co. (Gas Engines, etc.)
 *Bowen & French Mfg. Co. (Agr'l Implements, etc.)
 *Crescent Machine Works
 *Dalton, Henry & Sons Co.
 *Duck Cycle & Motor Co. (Motor Cycles, Bicycles, etc.)
 *Matthews, F. I. (Iron & Brass Founder & Machinist)
 *Oakland Machine Works
 *Phoenix Iron Works (Iron & Brass Founders, Machine Castings, etc.)
 *Pioneer Brass Foundry
 *Scoville Iron Works
 *Standard Brass Casting Co. (Brass Castings, etc.)
 *Standard Foundry Co.
 *Stearns Bros.' Spraying Machine Co. (Spraying Machines & Automobiles)
 *Union Machine Works
 *United Iron Works (Centrifugal Pumps & Mining Machinery, etc.)
 *White-Frauder Iron Works (Ornamental Iron, etc.)
 *Young, R. S. Supply Co. (Brass Founders & Machinists)
 OAK PARK—*Latourette, J. (Gas Engines, etc.)
 ORCUTT—*Union Oil Tool Co.
 OROVILLE—*Boston Machine Shop Co.
 *Indiana Machine Shop Co.
 *New York Machine Shop
 OXNARD—*Oxnard Foundry & Iron Works
 PALO ALTO—*Peterson, Fred E.
 PASADENA—*Reliance Machine Works
 *Wingren, Chas. O.
 PLACERVILLE—*El Dorado Foundry Co.
 POMONA—*Osler, F. H.
 PORTERVILLE—*Porterville Foundry & Machine Works
 RED BLUFF—*Hammer, H. H.
 REDDING—*Redding Iron Works
 REDLANDS—*Oshun Iron Works
 *Oshun Iron Works
 RIVERSIDE—*Bonham, G. W. & H. J.
 *California Iron Works
 *Riverside Foundry & Machine Works (Packing House Machinery, etc.)
 SACRAMENTO—*Bell's Machine Works
 *Brainard Bros.
 *Bryte, M.
 *Chaplin, W. W.
 *Cunningham, Jno. A.
 *Naylor Sons & Co.
 *Root, Neilson & Co. (Iron & Brass Founders & Machinists)
 *Sacramento Foundry & Machine Works
 *Veach & Snow
 SALINAS—*Iverson Bros. (Machinists, etc.)
 *Lacey, Geo. F.
 ST. HELENA—*Grant, P. S.
 SAN BERNARDINO—*California Iron Works
 *Hanford, J. J.
 *Parker Iron Works

*Santa Fe R. R. Co.'s (Brass Fdry)
 *Southern Pacific Railroad Foundry
 SAN DIEGO—*Clark Machinery Co.
 *Howard Iron Works
 *Hunt Automobile Co.
 *Ingle Mfg. Co. (Stoves, etc.)
 *Kessler Machine & Supply Co.
 *McCoy, Thos. & Sons
 *Standard Iron Works
 *Sterne Bros. Co.
 *Wilson, James D.
 SAN FRANCISCO—*American Engineering Co.
 *Atlas Brass Works, 827 Folsom
 *Atlas Gas Engine Co. (Gas Engines, etc.)
 *Bailey-Raymond Machine Works
 *Bailey-Smith Machine Co.
 *Bay City Iron Works, 1243 Harrison
 *Betts Spring Co. (Carriage, Wagon & Car Springs), 218 Fremont
 *Binns, Wm. H. (Machines & Tools),
 *Braud, P. & Co.'s Brass Works
 *Brode & Clark Iron Works (Founders & Machinists), 621 Howard
 *Brunig Machine Works, 516 Brannan
 *Buffalo Machine Works (Machinery)
 *Burton, Isaac L. (Engines, Pumps, etc.)
 *California Adding Machine Co. (Adding Machines), Flood bldg.
 *California Electrical Works (Dynamoes & Motors, Elevators, etc.), 642 Folsom
 *California Motor Co. (Motors, Bicycles, etc.)
 *California Saw Works (Saws & Machinery), 721 Brannan
 *California Tool Works (J. Weichhart, Prop.) (Machinists & Dies & Models, etc.),
 *Central Iron Works (Iron Founders, etc.), 631 Florida
 *Christie Machine Works, 191 Fremont
 *Clot & Christ Machine Co. (Steam & Power Pumps, etc.), 940 Bryant
 *Columbia Machine Works (Machinists), 215 Spear
 *Compressed Air Machinery Co., Jessie & Ecker
 *Corliss Gas Engine Co. (Gasoline & Oil Engines), 227 Folsom
 *Cyclops Iron Works (Brewery Machinery, Engines, Ice & Refrigerating Machinery, Printing Presses, etc.), 223 Main
 *Day, Thos. Co. (Brass Fdres. & Finishers), 719 Mission
 *Doak Gas Engine Co.
 *Doble, Abner Co. (Tools & Machinery).
 *Dow, Geo. E. Pumping Engine Co. (Pumps & Hydraulic Machinery, etc.), 179 1st
 *Dyer Bros. (Bldrs. Iron Work), 17th & Kansas
 *Edwards, Wm. & Co. (Well Boring Tools & Forgings), 109 Fremont
 *Enterprise Foundry (Iron Foundry), Main & Folsom
 *Eureka Foundry, 625 Brannan
 *Evans, C. H. & Co. (Engines, Pumps, etc.), 109 Fremont
 *Fulton Iron Works (Engines, Ship Builders, Feed Water Filters, etc.), 511 Market
 *Galli Machine Works (Machinists), 429 Tehama
 *Garratt, W. T. & Co. (Brass & Bell Founders & Machinists), 138 Fremont
 *Giovannini & Co.
 *Golden State & Miners Iron Works (Engines & Mining Machinery), 231 1st
 *Graham, Jas. Mfg. Co. (Stove & Range Mfrs. & Light & Grey Iron Castings), 27 Minna
 *Gray, J. A. Co. (Presses, Dies, Tools, etc.), 18th & Bryant
 *Greenberg's, M. Sons (Brass Foundry & Plating Works), 225 Beale
 *Hammond, J. & Co. (Car Bldrs., Electric Elevators, Machine Work, etc.), 7th & King
 *Haslehurst, W. W., 2122 Folsom
 *Hedley, John
 *Hendy, Joshua Machine Works (Engines, Mining & Woodworking Machinery, Castings, etc.), 75 Fremont
 *Hercules Gas Engine Works (Gas Engines),
 *Hicks, Jas. L. (Gasoline Engines, etc.), 967 Howard
 *Imperial Gas Engine Co. (Gas & Oil Engines), 60 Clementina
 *Jackson, Byron Machine Works (Engines, Pumps, etc.)
 *Jackson, P. H. & Co. (Inc.) (Arch'l Iron & Steel Work, Sidewalk Lights, etc.), 225 1st
 *Johnson, H. W. (Automatic Screw Machine Work)

*Judson Mfg. Co. (Machine & Bridge Work & Castings), 819 Folsom
 *Kingwell, Vincent (Brass & Bell Foundry), 1038 Mission
 *Kortick, J. C., 317 1st
 *Krogh Mfg. Co. (Irrigating, Mining, Mill & Wine Making Machinery, etc.), 2132 Folsom
 *Liberty Iron Works (Iron Founders), 229 Main
 *Lutge, Richard (Iron Founders), 3153 18th
 *McCormick Bros. Iron Works (Iron Founders), Main & Folsom
 *McIntosh & Wolpmann (Machinists), 195 Fremont
 *McLaughlin Mfg. Co. (Traction Engines)
 *McNicol, A. J. Elevator Co. (Elevators, etc.), 207 2d
 *Main Street Iron Works (Wm. Deacon, Prop.) (Engines, etc.)
 *Meakin, William
 *Meese & Gottfried Co. (Engines, Ice Machines, Power Transmitting, etc.), 19th & Harrison
 *Merle & Co. (Art Metal Works, etc.), Bay & Stockton
 *Merralls Mill Co. (Mining Machinery, etc.)
 *Moore & Scott Iron Works
 *Muir Bros. Co. (Marine Iron Works), 1015 Battery
 *Murray Bros. (Engines, etc.), 231 Folsom
 *Noble, Patrick (Bldrs. Iron Work, etc.), 17th & Mississippi
 *North Machine Co. (Eng. & Machinists), 324 Main
 *North Star Iron Works, 1271 Folsom
 *Novelty Machine Works (Tools, Dies, etc.), 546 Gough
 *O'Brien, M. (Flour Mill & Brewery Machinery)
 *Ohmen Engine Works (Steam Engines), 17th & Capp
 *Orton, O. K. Machine Co. (Eng. & Machinists), 315 Fremont
 *Pacific Foundry Co. (Iron Fdres.), 18th & Harrison
 *Pacific Gear & Tool Works (Gear Cutting & Machinists), 1265 Folsom
 *Pacific Jupiter Steel Co. (Steel Foundry), 140 1st
 *Pacific Structural Iron Works
 *Pacific Tank Co. (Mining Machinery), 301 Market
 *Pelton Water Wheel Co. (Water Wheels for Power, etc.), 19th & Harrison
 *Ralston Iron Works (Builders' Iron Work & Castings), 20th & Indiana
 *Rincon Foundry Co. (Iron Fdres.)
 *Risdon Iron & Locomotive Works (Engines, Dredging & Mining, Sugar, etc.), Stuart & Folsom
 *Rix Compressed Air & Drill Co. (Rock Drills, Air Compressors, etc.), 219 Spear
 *Rotary Machine Co.
 *San Francisco Engineering Co. (Eng. & Machinists), 322 6th
 *San Francisco Machine Works (Inc.)
 *Sartorius Co. (Arch'l Iron Works), 15th & Utah
 *Schrader's Iron Works, 1249 Harrison
 *Speck, Wm. (Gear Cutting, Laundry Machinery, etc.), 2132 Folsom
 *Standard Gas Engine Co. (Gas Engines),
 *Steiger & Kerr Stove & Fdy. Co. (Stoves & Castings, etc.), 18th & Folsom
 *Swain Hadwen Mfg. Co. (Engines & Machinery), 92 7th
 *Thompson Bros. (Iron Fdres.), 625 Brannan
 *Thomson, J. A. Co.
 *Toulouse & Delorieux (Machinists), 489 8th
 *Tucker, E. W. & Co. (Eng. & Machinists), 934 Buchanan
 *Union Gas Engine Co. (Gas & Gasoline Engines)
 *Union Iron Works Co. (Ship Builders, Mining Machinery, etc.)
 *Union Machine Co. (Eng. & Machinists), 934 Brannan
 *United Can Co. (Can Making Machinery), 19th & Harrison
 *United Engineering Works (Ship Builders, Marine Engines, etc.), 254 Spear
 *United Iron Works (Centrifugals, Pumps & Mining Machinery, etc.)
 *Van Drake-Olson Machine Works (Machinists)
 *Vulcan Iron Works (Engines, Ice & Refrigerating, Mining & Saw Mill Machinery), 604 Mission
 *Wagner, Jos. Mfg. Co. (Floor Mill, etc.), 508 Cole

*Webber & Richer Machine Works (Special Machinery for all purposes)
 §Western Brass Works
 §Western Foundry Co., 215 Harrison
 *†Western Iron Works (Fire & Burglar Proof Doors, Shutters, Bank Vaults, Fire Escapes, etc.), 123 Beale
 *Western Machine Works (Safes, Bank Vaults, etc.), 230 Main
 *Wilgus Mfg. Co. (Machinery)
 †Withington, C. W. (Ornamental Iron Work), 416 2d
 *†§Woodin & Little (Windmills, Pumps & Brass Goods), 534 Mission
SAN JOSE—*†Anderson-Barngrover Mfg. Co. (Fruit Grading & Packing Machines)
 *†Caton's Foundry & Machine Co.
 †Enterprise Mfg. Co. (Founders)
 *†Holmes Machine & Tool Mfg. Co.
 *Knapp Mfg. Co. (Gas Engines, Launches, etc.)
 *†Kuchenbeiser, F. Co. (etc.)
 †Moore Arthur Iron Works
 *§San Jose Brass & Iron Foundry (Inc.)
 †San Jose Foundry
 *Wight, David (Machinist)
SAN LEANDRO—*†Best Mfg. Co. (Harvesters, Binders, Traction Engines, etc.)
 *Junior Monarch Hay Press Co. (Hay Presses, etc.)
SAN LUIS OBISPO—*Waite, H. H. (Machinist)
SANTA ANA—*†Butler Mfg. Co. (1st)
 *Cherry, W. S. Co.
 *Elliott, B. D.
SANTA BARBARA—*†Gates, L. D.
 *Higgins, L. M.
 *†Wood-Redington Machinery Co.
SANTA MARIA—*Roemer Reversible Lever Tong Co. (Pipe Wrenches)
SELMA—*Vincent, M. (Agr'l Impls.)
SONORA—*Damas & Francis
SOUTH SAN FRANCISCO—*Schirck, John
 †Davis Iron Works
 *†Wallace & Purinton
STOCKTON—†East Street Foundry
 *Geiger, J.
 *†Globe Iron Works (Inc.) (Engines & Dredging Machinery)
 *Harris Mfg. Co. (Harvesters)
 *Harrison & Castle (Storage Elevators)
 *†Holt Mfg. Co. (Agricultural Implements, Traction Engines, etc.)
 *†Houser & Haines Mfg. Co. (Harvesters, Grain Drills, etc.)
 *Samson Iron Works (Inc.) (Gas Engines)
 *†Shaw, H. C. Co. (Harrows & Plows)
 *Stockton Gas Engine Co.
 *†Stockton Iron Works
SUNNYVALE—*†Goldy Machine Co. (Wood-working Mach'y, etc.)
SUTTER CREEK—*†Knight & Co. (Water Wheels, 100 to 2500 h. p., Castings, etc.)
TERMINAL—*York & Pett
TUOLUMNE—†Carr, E. M.
VENTURA—*Palm, A.
 *Ventura Mfg. & Implement Co. (Agr'l Impls., etc.)
VISALIA—*†Coats, J. R. (Impls., etc.)
WALNUT CREEK—*Kirsch, Michael
WINDSOR—*Philpott, J. S.
WOODLAND—†Faulkner, Langenour & Peart

COLORADO.

ALAMOSA—*Alamosa Machine Works
ASPEN—†Mellor, Jos.
BLACK HAWK—*†Black Hawk Foundry & Machine Co.
 *Stroehle, Geo. & Son
BOULDER—*†Boulder Iron Works Co.
 †Devline Foundry Co.
 †Phoenix Iron Works Co.
CANON CITY—*†Canon Foundry & Machine Co.
CENTRAL CITY—*†McFarlane & Co. (Mining Machinery, etc.)
COLORADO SPRINGS—*Bumstead, Frank F. & Co.
 *†§Hassell Iron Works Co. (Rock & Ore Crushers, Horse Power Hoists & Iron & Brass Castings, etc.)
 *Strang, C. G.
 *Andersen, Chas. M., 1831 Blake
CRIPPLE CREEK—*Rueter Bros.
DENVER—*Apthoff, Wm. F. & Son (Refrigerating Machinery & Supplies, 1540 16th)
 *Card & Weber Machine Co. (Special Machinery & Centrifugal Sand Pumps), 1443 Blake
 *†Clark's Foundry Co. (J. S. Clark)
 *†Colorado Fuel & Iron Co. (Also Steel Mfrs.), Boston bldg
 *†Colorado Iron Works Co. (Mining & Smelting Machinery, Iron Forgings, etc.), 33d & Wynkoop
 †Cox, Thos & Son
 *†Davis, F. M. Iron Works Co. (Mining & Power Transmitting), 8th & Larimer

*§Denver Brass Works (Brass Founders & Finishers), 1307 Lawrence
 *†Denver Engineering Works Co. (Mining Machinery, Iron Forgings, etc.), 30th & Blake
 †Denver Gas Engine & Appliance Co.
 *†Denver Iron Works & Foundry Co., 1827 Wynkoop
 *†Denver Iron & Wire Works Co.
 *†Denver Stove & Malleable Iron Co. (Stoves, etc.)
 §Desslerich, Jacob (Brass Foundry), 1440 Blake
 *Dillon Iron Works Co.
 *Doig-Stivers Mfg. Co., 1829 Arapahoe
 †Downing & Johnson
 *Engelbach-Reynolds Machine Co., 1407 Blake
 *†Enz & Orr, 1741 Blake
 *†§Flint-Lomax Electric & Mfg. Co. (Brass Fdrs. & Electrical Mach'y., etc.), 1400 Delgany
 *Franklin & Bunch, 1840 Lawrence
 *Gair & Binderup
 *Gartman, C. E. (Machinist), 1414 15th
 *†Great Western Machinery Co.
 *Havens, Herbert, 1618 Wazee
 *Hendrie & Bolthoff Mfg. & Supply Co. (Mining & Mill), 1621 17th
 Hingley, J. A.
 *†Iler Rock Drill Mfg. Co. (Rock Drills)
 †Jackson-Richter Iron Works Co.
 *Leavitt, W. S. (Tools, etc.)
 *†McFarlane & Co., 1734 15th
 *McNamara, Jno. C. (Brass Fdry.), 1431 Blake
 *†Maclear Mfg. & Supply Co.
 *Marcy, Julius
 *†Mine & Smelter Supply Co. (Mining Mach'y. & Castings), 17th & Blake
 †Mountain Iron Works Co.
 *Nock & Garside (Elevators, etc.)
 †Pioneer Iron & Wire Works Co.
 *Plattner Implement Co. (Rakes, Harrows, etc.)
 *†Queen City Foundry Co., 4th & Wazee
 *Sachs-Lawlor Machine & Mfg. Co., 1543 Lorimer
 *Schroyen & Peterson
 *Scott Supply & Tool Co. (Machinists)
 *Scott, W. E. (Machinist), 1520 18th
 *Shaw, C. H. Pneumatic Tool Co. (Pneumatic Tools), Wazee cor 35th
 §Slack, B. F. (Brass Foundry), 1638 Blake
 *Southard, A. M. & Sou, 1932 Curtis
 *Star Machinery Co.
 *†Stearns-Roger Mfg. Co. (Crushing Rolls, Machinery for Smelting, Sampling, Milling & Concentrating Ores, etc.), 1718 California. Works: Pueblo, Colo.
 *Stein, Edward C.
 *Temple Gas Engine & Machinery Co., 1425 14th
 *Traylor, John A. Machinery Co.
 *Truax Mfg. Co. (Steel Ore & Service Cars)
 *Vulcan Iron Works Co., 1722 Wazee
 *†Walker Mfg. Co., 2156 15th
 †Walker, Thomas (Western Foundry)
DURANGO—*†Ball Foundry & Machine Works
 †Vulcan Foundry Co.
FLORENCE—*Parnell, Alfred N.
FORT COLLINS—*†Poudre Valley Foundry & Machine Co.
FRUITA—*Beard, J. G. M. (X-Ray Machines)
GREELEY—*Brown, Peter (Potato Harvesting & Sorting Machinery)
 *Lester, W. E.
GUNNISON—*†Burnett, Walker (Stoves, etc.)
LAJUNTA—*Norton, S. E.
LEADVILLE—*†Engelbach Machine Mfg. Co.
 *†McCarty & Moore
LITTLETON—*†Leyner, J. Geo. Engineering Works Co. (Compressors, Rock Drills, Pneumatic Tools, etc.)
MONTE VISTA—†Beesler & Elliott
PUEBLO—*†Colorado Fuel & Iron Co. (See Denver, Colo.)
 †Colorado Iron & Wire Works Co.
 *Hochenauer, Joseph
 †Iron City Mfg. Co.
 *Mead Hay Press Co. (Harrows, Cultivators, etc.)
 *§Ortner, Geo. J. (Brass Fdry., etc.)
 *†Pueblo Foundry & Mach. Co.
TELLURIDE—*†Sackett, H. M.
TRINIDAD—*Hawkins & Barnett
 *†Trinidad Fdry. & Machine Works
VICTOR—*†McCool, Robt.
WALSENBURG—*†Walsenburg Foundry & Mfg. Co.
 Ravenscroft, F. C.

CONNECTICUT.

ANSONIA—*§Ansonia Brass Fdry. Co.
 *Ansonia Electrical Co. (Electrical Specialties)
 *§Ansonia Mfg. Co. (Brass Goods)
 *Cameron, H. P. Elec. Mfg. Co. (Electrical Specialties)
 *§Cook, Henry C. Co. (Special Machinery & Brass Novelties)
 *†Farrel Foundry & Machine Co. (Paper & Pulp Mill, Rolling Mill, Rubber, Stone Sawing, Veneer Cutting, Wire Insulating, Wire Straightening & Cutting, Machinery, etc.)
 *†Excelsior Faucet Co. (chinery, etc.)
 *Omega Steel & Tool Co. (Twist Drills, Milling Cutters, etc.)
 †Otis, Fred W.
 †§Phelps, H. D. (Brass Foundry)
BANTAM—*Bantam Anti-Friction Co. (Ball & Roller Bearing, Motors & Motor Vehicles, etc.)
BEACON FALLS—*§Bronson, Homer D. Co. (Brass Hinges & Electric Bronze Art Work)
BRANCHVILLE—*Gruman, Geo. B. (Ice Tools, etc.)
BRANFORD—*†Malleable Iron Fittings Co. (Malleable Iron Pipe Fittings & Semi-Steel & Steel Castings)
BRIDGEPORT—*Acme Shear Co. (Shears, Acme Oil Engine Co. (Oil Engines)
 *Adams, A. L. (Corset Machin'y.)
 *§American Graphophone Co.
 *American Tube & Stamping Co. (Dies, Tools & Automatic Mach'y.)
 *†American & British Mfg. Co. (Corliss Engines, Driving Wheels, etc.) (See also Providence, R. I.)
ARMSTRONG MFG. CO. (Pipe Cutting & Threading Machines, etc.) (See adv. index, end of book)
 *†§Ashcroft Mfg. Co. (Steam Gauges, etc.)
 *Atlas Shear Co. (Shears, etc.)
 *Automatic Machine Co. (Automatic & Special Mach'y.)
 *Beers, P. M. & Son (Needles, etc.)
 *§Belknap Mfg. Co. (Brass Fdrs. & Brass Goods for Steam, Gas & Water)
 Bradley, H. C. (Wood Turning, Mach'y, etc.)
 *§Bridgeport Brass Co. (Brass Tubing, Lamps, etc.)
 *Bridgeport Chain Co. (Chains, etc.)
 *Bridgeport Hardware Mfg. Corp'n (Hardware Specialties)
 §Bridgeport—De-Oxidized Bronze & Metal Co. (Deoxidized Bronze Ordnance, Comp. Castings, etc.)
 *†Bridgeport Forge Co. (Machine Jobbing)
 *†Bridgeport Foundry & Machine Co.
 *†Bridgeport Gun Implement Co. (Gun Implements, etc.)
 †Bridgeport Malleable Iron Co.
 *Bridgeport Motor Co. (Gasoline Motors, etc.)
 *Bridgeport Safety Emery Wheel Co. (Emery Wheel Mach'y.)
 *Bryant Electric Co. (Electrical Specialties)
 *Bullard Machine Tool Co. (Machine Tools, etc.)
 *§Burns, Silver & Co. (Hdw. Specialties & Brass & Bronze Castings, etc.)
 *Challenge Cutlery Corp'n (Cutlery, etc.)
 *Columbia Nut & Bolt Co. (Bolts, Nuts, etc.)
 *Connecticut Clasp Co. (Clasps, etc.)
 *Connecticut Tool Co. (Stocks & Dies)
 †§CONSOLIDATED SAFETY VALVE Co. Office: 85 Liberty, New York. (See adv. index, end of book)
 *Cornwall & Patterson Mfg. Co. (Piano Hdw., etc.)
 *†Coulter & McKenzie Machine Co. (Rivet & Spring Mach'y., Presses, Punches, Shears, Drop Hammers, etc.)
 *Curtis & Curtis Co. (Pipe Cutting & Threading Machines, Stocks & Dies, etc.)
 *†§Eaton, Cole & Burnham Co. (Brass & Iron Valves, Fittings, etc.)
 *Farist Steel Co. (Steel Car Springs, Railroad & Mach'y. Forgings)
 *Fowler, F. G. & Co. (Specialties)
 *Fray, Jno. S. & Co. (Ratchet & Drill Braces & Tool Sets)
 *Gaynor & Mitchell Mfg. Co. (Brass Novelties)
 *Grant Mfg. & Machine Co. (Screw Slotting Machines & Tool Post Grinders)
 *Hall, G. W. (Light Mach'y, etc.)
 §Hamilton, Jno. (Est. of) (Brass Fdry. & Finisher, Plumbers' Brass Goods)
 *Hatheway Mfg. Co. (Metal Goods & Dies)
 *Hawthorne & Shelby Mfg. Co. (Talking Machine Supplies, etc.)

When writing to firms listed in this book please mention HENDRICKS' COMMERCIAL REGISTER

*Hitchcock Gas Engine Co. (Gas Engines, etc.)
 *Hotchkiss, E. S. (Light Hardware, etc.)
 *Hubbel, Harvey (Inc.) (Screw Slotting & Riveting Machines)
 *Hurwood Mfg. Co. (Lanterns & Food Choppers)
 *Ives Mfg. Corp. (Hardware Specialties, etc.)
 *Kinsley Mfg. Co. (Steam Whistles, etc.)
 *Knapp, Geo. S. (Hardware Specialties, Art Metal Goods, etc.)
 *Lock Steel Belt Co.
 †Manufacturers' Foundry Co.
 *Metal Ware Mfg. Co. (Hardware Specialties, etc.)
 §Monumental Bronze Co. (Bronze Monuments, etc.)
 *Nilsson, A. H. Machine Co. (Special Automatic Machinery, etc.)
 *Osborn, Geo. R. Co. (Metal Goods)
 *†Pacific Iron Works (Inc.) (Steam Engines & Castings)
 †Parsons, R. E. Co. (Gray Iron Castings, etc.)
 †Pequonnock Foundry Co. (Gray Iron Castings)
 *Perkins Electric Switch Mfg. Co. (Electrical Supplies)
 *Reliable Machine Co.
 *§Rowell, W. G. Co. (Brass Castings, Bab-bitt Metal, etc.)
 *Royal Equipment Co. (Auto Brakes, Gasoline Engines, etc.)
 *§Sanford, David C. Co.
 *Smith & Egge Mfg. Co. (Hdw. Specialties, etc.)
 *Somers, Jas. M. & Co. (Brass Rules)
 *Special Machinery Co. (Automatic Machy., etc.)
 *Sprague, H. H. Co. (Gas Meters, etc.)
 *Spring Perch Co. (Springs, etc.)
 *Springfield Mfg. Co. (Emery Wheel Machinery)
 *†Standard Coupler Co. (Car Couplers & Standard Mfg. Co. Steel Platforms)
 *Union Metallic Cartridge Co.
 *Union Typewriter Co. (Typewriters)
 *Walter, Edw. P. (Metal Plating & Shaping Machines, etc.)
 *Weidlich Bros. Mfg. Co. (Metal Goods & Novelties)
 *Weld Mfg. Co. (Air Compressors, Automatic Machy.)
 *Wheeler Engine Works (Tools, etc.)
 *White Mfg. Co. (Carriage Lamps & Mountings, etc.)
 *Yates & Underhill (Machinists)
 BRISTOL—*Barnes, Wallace Co. (Steel Springs, etc.)
 *§Bristol Brass Co. (Brass & Bronze Fdrs.)
 *Bristol & Plainville Tramway Co.
 *Dunbar Bros. (Cock Springs, etc.)
 *Horton, Everett (Clock Machinery & Dies)
 *Horton Mfg. Co. (Steel Fish Rods, etc.)
 *Ingraham, E. Co. (Clock Mfrs.)
 *Ladd, W. C. (Clocks, Bells & Light Hdw.)
 *§New Departure Mfg. Co. (Bell Founders & Mfrs.)
 *Penfield Saw Works (Saws, etc.)
 *Root, C. J. (Registering Machines, Wrought Brass Hinges, etc.)
 †Sessions Foundry Co. (Gray Iron Castings)
 *Smith, Ira B. (Dies, Punches & Tools)
 *Snyder, L. H. & Co. (Floor & Ceiling Plates)
 *Thompson, H. C. Clock Co. (Clock Movements)
 †Turner Heater Co. (Hot Air Furnaces, etc.)
 *Turner & Deegan (Bit Braces, etc.)
 BROOKFIELD—*Lennox Shear Co. (Shears, etc.)
 BURLINGTON—*Clayton, Henry C. Co. (Bits)
 CENTERBROOK—*Connecticut Valley Mfg. Co. (Bits)
 CHESTER—*Chester Mfg. Co. (Augers, Bits, etc.)
 *Deuse, J. S. (Gimlets, etc.)
 COLLINSVILLE—*Collins Co. (Plows, Tools, etc.)
 COS COB—*Palmer Bros. (Gasoline Motors, etc.)
 CROMWELL—*§Stevens, J. & E. Co. (Toys, Hardware, etc.)
 *Warner, M. R. & Son (Hammers, etc.)
 DANBURY—*Albert Machine Co.
 *Boesch Mfg. Co. (Tools, etc.)
 *Doran Bros. (Hat Machy.)
 *Helm Machine Co. (Hattling Machy.)
 *Henebry, Thos. F. (Brass Foundry)
 *Morlock, Wm. (Machinist)
 *New Machine Co. (Machinists)
 *Rogers Telephone & Electric Co. (Electric Goods)

*Russel Electric Co. (Electrical Goods)
 *†Turner Machine Co. (Hat Machy.)
 DANIELSON—†Bradford, Thos. (Steam Heat-ers, etc.)
 DEEP RIVER—*Jennings Russel Mfg. Co. (Augers, Bits, etc.)
 DERBY—†Automatic Electric Time Switch Co.
 *Birmingham Iron Foundry (Rubber Mill & Rolling Mill Machinery, Iron Semi-Steel Castings, etc.)
 *Dairy Machinery & Construction Co.
 *†Graham Mfg. Co. (Hdw. & Locksmiths' Supplies)
 *Housatonic Motor & Machine Co.
 *§Kelly, Fergus (Brass Specialties)
 *†Meyer, Fred'k (Iron & Brass Fdry.)
 *O. K. Tool Holder Co. (Tool Holders & Lathe & Planer Tools, etc.)
 *Shelton Co. (Tacks, Carriage Bolts, etc.)
 *Star Pin Co. (Pins, etc.)
 *U. S. A. Co. (Pins, Hooks & Eyes, etc.)
 *United States Rapid Fire Gun & Power Co. (Engineers & Machinists, "Francke" Four Ported Steam Engines, Hydraulic Presses, Stone Working Machinery, etc.)
 *†Whitcomb Metallic Bedstead Co. (Metallic Bedsteads)
 *†Whitlock Printing Press Mfg. Co. (Printing Presses)
 *Williams Typewriter Co. (Typewriters)
 EAST HAMPTON—*†Bevin Bros. Mfg. Co. (Bell Fdrs. & Mfrs.)
 *Brown, H. B. Co. (Bolt & Nut Machy.)
 *§East Hampton Bell Co. (Bell Fdrs. & Mfrs.)
 *§Gong Bell Mfg. Co. (Bell Fdrs. & Mfrs.)
 *§Hill, N. N. Brass Co. (Bell Fdrs. & Bell Mfrs.)
 *§Starr Bros. Bell Co. (Bells, etc.)
 *§Watrous Mfg. Co. (Bell Fdrs. & Mfrs.)
 FAIRFIELD—*Fairfield Motor Co. (Gasoline ESSEX—*Hayden, L. S. Motors, etc.)
 GROTON—*Groton Machine Co. (Machy.)
 FARMINGTON—*Wallace, N. (Lightning Rods)
 FORESTVILLE—*Sessions Clock Co. (Clocks, etc.)
 *§Young Bros. (Brass Novelties, etc.)
 GAYLORDSVILLE—*Waller, E. M. (Mowing Machines, etc.)
 GEORGETOWN—*†Gilbert & Bennett Mfg. Co. (Wire Goods, etc.)
 GUILFORD—†Spencer's, I. S. Sons (Grey Iron Castings, etc.)
 HAMDEN—*Henry, John T. Mfg. Co. (Garden Implements, etc.)
 HARTFORD—*†Billings & Spencer Co. (Machine Tools, etc.), 142 Russ
 §Blake, Edwin J. (Brass, Phosphor & Manganese Bronze Castings, etc.)
 *†Capewell Horse Nail Co. (Horse Nails, etc.)
 †Capitol Foundry Co.
 *Clark, E. R. (Air Motors, etc.)
 Clark, Edred W. (Rubber Machy.)
 *†Colts Arms Co. (Firearms, etc.)
 *COOK, ASA S. CO. (Wood Screw Machy., Vises, etc. (See adv. index, end of book)
 *Cooley & Trevor Mfg. Co. (Envelope Machy., etc.)
 §Craig, Jno. M., 71 Arch
 *Cushman Chuck Co. (Lathe & Drill Chucks, etc.), 189 Allyn
 *Davis, I. B. & Son (Steam Heaters, Pumps, etc.)
 §Edwards & Kelleweay
 *Evarts Mfg. Co. (Gas & Gasoline Engines, etc.)
 *Fenn Machine Co. (Bench Lathes, Spindle Drills), 734 Main
 *Gray & Prior Machine Co. (Universal Joints, etc.)
 *Hart Mfg. Co. (Electric Switches, etc.)
 *Hart & Hegeman Mfg. Co. (Electric Switches, etc.)
 *†Hartford Blower Co. (Blowers, Fans, Furnace Feeders, etc.)
 *†Hartford Engine Works (Complete Power Plants, Automobile Engines, General Machine Work)
 *†Hartford Foundry Corporation (Gray Iron Castings, etc., "Duplex" Catch Basins, 618 Windsor
 *Hartford Machine Screw Co. (Automatic Screw Machy, etc.), 476 Capitol
 HENRY & WRIGHT MFG. CO. (Machine Tools), 133 Sheldon. (See adv. index, end of book)
 *§Howard, Jas. L. & Co. (Brass Founders & Finishers, Plating, Polishing, Lacquered, etc.), 438 Asylum
 *Jacobs Mfg. Co. (Drill Chucks, etc.)
 *†Johns-Pratt Co. (Asbestos Packing & Electrical Goods), 555 Capitol
 *Johnson Carlyle Machine Co. (Friction Clutches, etc.)

†Laragy, P. (Gray Iron Castings), 114 Grove
 *Law, F. A. Machine Co. (Marine, Stationary & Automobile Engines)
 *Lee, H. K. (General Machine Work), 223 State
 *Morrow Machine Co. (Textile Machy.)
 *Mutual Machine Co., 25 Wells
 *National Machine Co. (Machine Tools & Printing Presses)
 *Noppel Pump Co. (Pumps, etc.)
 *Organ Power Co. (Organ Motors, etc.)
 *Paradox Gas Engine Co. (Gas Engines, etc.)
 §Phoenix Brass Foundry Co. (Brass Founders), 223 State
 *†Phoenix Iron Works Corporation (Bleaching, Dyeing, Drying & Finishing Machy.), 54 Arch
 *Phoenix Mfg. Co. (Century Machines)
 *Pickering, W. H. & Co. (Eng. & Machinists), 110 Commerce
 *Pope Mfg. Co. (Bicycles, Motor Bicycles, Automobiles), 436 Capitol
 *Post & Lester Co. (Auto Supplies)
 *†§Pratt & Cady Co. (Brass & Gray Iron Castings, Valves, etc.)
 *†Pratt & Whitney Co. (Machine Tools & Small Tools, etc.)
 *Quint, A. D. (Machine Tools, etc.)
 *Rhodes, L. E.
 *†Riverside Machine Works, 40 Perry
 *Sigourney Tool Co. (Drill Presses, etc.)
 *Slate, Dwight, Machine Co. (Machine Tools, etc.)
 *Smyth Mfg. Co. (Bookbinders' Machy.)
 *Stalker Mfg. Co. (Bits, Hobbles, etc.)
 †§Standard Foundry Co.
 *Sterling Blower & Pipe Mfg. Co. (Blowers, Fans, etc.), 60 Huyshope av
 *Taylor Mfg. Co. (Lathe & Planer Tools)
 *Tilton, David (Screw Machines, etc.)
 *Tucker, W. W. & C. F. (Oil Hole Covers & Cups, etc.), 302 Asylum
 *Vanderbeck Tool Works (Machine Tools, etc.)
 *†Veeder Mfg. Co. (Cyclometers, Counters & Castings)
 *†§Whitlock Coil Pipe Co. (Pipe Benders, Brass & Sheet Metal Work & Automobile Cooler)
 *Whitney Mfg. Co. (Machine Tools, etc.)
 *Winkley Co. (Oil Cups, etc.)
 HIGGANUM—*†Cutaway Harrow Co. (Harrow, etc.)
 *Scoville, D. & H. (Planters, Hoes, etc.)
 HIGHLAND PARK—*Case, A. W. & Son
 *Case Machine Co. Prop. Wheels, etc.)
 HOTCHKISSVILLE—*American Shear & Knife Co. (Pocket Cutlery, Shears, etc.)
 IVORYTOWN—*Behrens & Bushnell (Machinists)
 LAKEVILLE—*Holley Mfg. Co. (Cutlery, etc.)
 LIME ROCK—*†Barnum-Richardson Co. (Car Wheels, Castings, etc.)
 *†Contracting Chill Co. (Castings, etc.)
 *Tire Setting Machine Co.
 MANCHESTER—*Lydall, H. & Foulds (Machine Needles, etc.)
 *Norton Elec. Instrument Co. (Elec. Instruments, etc.)
 MARION—*Frost, L. D. (Est. of) (Bolts, etc.)
 MERIDEN—*Browne & Dowd Mfg. Co. (Can Openers, etc.)
 *Dayton, Chas. L.
 *Engineering Specialty Co. (Electrical Goods, Motors, etc.)
 *Foster, Geo. A. (Ice Machines)
 *§Foster, Merriam & Co. (Cabinet Hardware, Brass Fdrs., etc.)
 *Kelsey Press Co. (Printing Presses, etc.)
 *Mannlag, Bowman & Co. (Bottlers' Machinery, etc.)
 *§Meriden Brass & Iron Works.
 *†Meriden Fire Arms Co. (Fire Arms, etc.)
 *Meriden Machine Tool Co. (Lathes & Screw Machines)
 Merriman, A. H. (Power Presses, Drop Hammers, etc.)
 *§Miller, Edw. & Co. (Brass Fdrs., Hardware, Lamps, etc.)
 *Parker Bros. (Guns, etc.)
 *†PARKER, CHAS. CO. (Vises, Coffee Mills, etc.). (See adv. index, end of book)
 *Parker Clock Co.
 *Schenck Governor Co. (Water Wheel Governors, etc.)
 *†§Schenck, M. B. Co. (Casters & Iron & Brass Fdrs.)
 *Todd Electric Mfg. Co. (Electrical Machinery & Tools, etc.)
 *Wusterbarth Bros.

- MIANUS**—*Mianus Motor Works.
- MIDDLEFIELD**—*†Lyman Gun Sight Corporation (Gun Sights, etc.)
- MIDDLETOWN**—*†Chapman, W. H. Co. (Saddlery Hdw.)
- *†Douglas, W. & B. (Pumps, Garden Engines, etc.)
- *†Hubbard Motor Co. (Gasoline Motors)
- *§Kirby Mfg. Co. (Bells, Toys, etc.)
- *McAllister, Frank.
- *New England Enameling Co.
- *†§Wilcox, Crittenden & Co. (Marine & Awning Hdw. & Grey & Malleable Iron Castings)
- MILFORD**—*§Rostrand Mfg. Corp'n (Racks, Brass Goods, etc.)
- MILLDALE**—*†Clark Bros. Bolt Co. (Bolts, Nuts, etc.)
- *Ellis Mfg. Co. (Machinists & Small Hardware)
- MOODUS**—*Brockway & Meckenstrum (Cotton Machy.)
- MOUNT CARMEL**—*Mount Carmel Bolt Co. (Small Special Machy.)
- *§Woodruff, Walter W. & Sons Co. (Brass Fdrs., etc.)
- MYSTIC**—*†Lathrop, J. W. Co. (Gas Motors)
- *†Standard Machinery Co. (Book Binders)
- *Watrous & Bacon (Machy.)
- NAUGATUCK**—†Naugatuck Malleable Iron Co.
- *†Russell, J. M. Mfg. Co. (Chains)
- NEW BRITAIN**—*†American Hardware Corporation (Hardware Mfrs.)
- *†Beaton & Bradley Mfg. Co. (Ceiling Plates, Plumbers' Supplies, etc.)
- *Brady, Thos. H. (Electric Ry. Supplies, etc.)
- *†Corbin Cabinet Lock Co. (Locks, etc.)
- *†Corbin Screw Corporation (Screws, Bolts, etc.)
- *†§Corbin, P. & F. (Builders' Hdw., etc.)
- *§Plannery, Patrick J.
- *†Hart & Cooley Co. (Hot Air Registers, etc.)
- *†§Humason & Beckley Mfg. Co. (Brass & Iron Fdrs. & Hardware)
- *†Judd, R. D. (Builders' & Saddlery Hardware)
- *§Kinne, W. A. (Brass Fdry.)
- *†§Landers, Frary & Clark (Brass & Iron Fdrs., Hardware, Cutlery, etc.)
- *†Malleable Iron Works (Malleable & Gray Iron Castings)
- *National Spring Bed Co. (Spring Beds)
- *New Britain Machine Co. (Engines & Wood Working Machinery)
- *†North & Judd Mfg. Co. (Saddlery, Hardware Fdrs., etc.)
- *North & Pfeiffer Mfg. Co. (Motors, etc.)
- *§Roche, Wm. J.
- *†§Russell & Erwin Mfg. Co. (Builders' Hdw., etc.)
- *Skinner Chuck Co. (Chucks, etc.)
- *Stanley Rule & Level Co. (Planes, Try Squares, Gauges, etc.)
- *†§Stanley Works (Hardware Specialties & Iron & Brass Founders, etc.)
- *†Taplin Mfg. Co. (Hdw. Specialties, etc.)
- *Traut & Hine Mfg. Co. (Patent Novelties)
- *†Union Mfg. Co. (Drill & Lathe Chucks, Light Grey Iron Castings, etc.)
- *Vulcan Iron Works (Malleable & Grey Iron Castings, etc.)
- NEW HAVEN**—*Acme Cash Railway Co. (Cash Carriers), 67 Court
- *Adlerhurst Iron Co.
- *Atlas Mfg. Co. (Special Hardware)
- *†Baldwin & Rowland Switch & Signal Co.
- *Barlow, John H. (Gun Implements, etc.)
- *Barnes Tool Co. (Pipe Cutters, Hand Sawing Machines, Wrenches & Tools, etc.), 958 Grand av
- *†Barnum, S. H. (Iron Fdrs., Gray Iron Castings, etc.), 20 Whitney av
- *Belden Machine Co. (Dies & Models, Tools & Hdw. Specialties, etc.)
- *Bigelow Co. ("Special Heavy Machinery, etc.")
- *Bishop, Walter S. (Electro Plating Machinery, etc.)
- *Brooks, Chas. J. (Wire Covering & Special Machy.), 27 Artizan
- *Brown, R. H. & Co. (Chucks, Machy. & Hdw. Specialties), 169 Ashmun
- *Burgess, E. A. (Est. of) (Special Machy., Dies, Box Nailing & Trimming Machy., etc.), 67 Court
- *Colburn, Albert L. (Drilling & Grinding Machy., etc.)
- *Cyko Machine Co. (Tools & Dies)
- *Dann Bros. & Co. (Wood Bending Machines, etc.), 80 Franklin
- *†Eastern Machinery Co. (Brick Machy., Freight Elevators, Friction Clutches, etc.), 144 Ashmun
- *Elm City Engineering Co. (Electric Metal Separators & Special Elec. Machinery), 61 Orange
- *Ely, C. Upham, 573 Dixwell av
- *Englsh & Mersick Lamp & Fdry. Co. (Coach Lamps & Trimmings, etc.)
- *†Fitch, W. & E. T. Co. (Sash, Locks, Malleable Iron Castings & Carriage Hdw., etc.), 151 East
- *†Fosket & Bishop Co. (Steam Traps & Steam Specialties, etc.), Grand & R. R. avs
- *Foster Motor Co. (Yacht Propellers, etc.), 31 Crown
- *Geometric Tool Co. (Special Machy., Screw Cutting, Die Heads, Hollow Milling Tools, etc.)
- *Graham, Jas. & Co. (Brass Fdrs.), 293 Wooster
- *Greist Mfg. Co. (Sewing Machine Attachments, etc.), Westville
- *Griswold, Geo. M. (Paper Box Machy., Dies, Tools, etc.), 35 Union
- *Hemmling Bros. Co. (Polishing & Grinding Machy., 190 East
- *†Hendryx, Andrew B. Co. (Brass & Bronze Fdrs.), 80 Audubon
- *Henn, A. S. & Co. (Punches, Dies, etc.), 155 Union
- *Herrick & Cowell (Paper Box, Hardware, Electrotypes & Special Machy.), 39 Artizan
- *Hoggson & Pettis Mfg. Co. (Chucks, Dies, Tools & Special Machy., etc.)
- *Ideal Mfg. Co. (Gun Loading Pressers, etc.), 187 St. John
- *†Ives, Hobart B. Co. (Brass & Bronze Fdrs. & Bldrs.' Hdw. Specialties)
- *†Kilborn & Bishop Co.
- *†McLagon Foundry Co. (Iron Fdrs. & Machinists, Machine Molded Pulleys, Furnace & Machy. Castings, etc.), 96 Audubon
- *MacKenzie, Geo. M. (Elevators, Engines, etc.), Water & East
- *Magnus Metal Co. (Babbitt & Anti-Friction Metals, etc.), 248 Cedar
- *†Mallory, Wheeler & Co. (Padlocks & Hardware), ft of Green
- *†Marlin Fire Arms Co. (Rifles, Guns, etc.)
- *Miner & Peck Mfg. Co. (Drop Presses & Drop Hammers, etc.), 419 Chapel
- *†National Steel Foundry Co. (Steel Castings)
- *New Haven Clock Co. (Clock Movements, etc.), 133 Hamilton
- *†New Haven Mfg. Co. (Machine Tools, etc.), 50 Whitney av
- *Norman Printers' Supply Co., 393 State
- *†North, O. B. & Co. (Saddlery & Carriage Hardware & Malleable Iron Fdrs.)
- *Ochsner, A. & Sons Co. (Carriage Locks & Specialties), 1060 State
- *†Peck Bros. & Co. (Brass Fdrs. & Plumbers' Brass Goods & Supplies)
- *Pfeighar, F. P. & Son, 74 Crown
- *Prentice, Geo. G. & Co. (Special Machy.), 30 Lenox
- *†Recording Fare Register Co. (Ry. Specialties, etc.)
- *†§Reynolds, Jas. Mfg. Co. (Sand Molding Machines & Brass Fdrs.), 99 Mill River
- *Reynolds & Co. (Screws, Bolts & Nuts), 321 East
- *Rowland Machine Co. (Steam Engines), 411 Chapel
- *†§Sargent & Co. (Bldrs.' Hdw.), Water & Wallace
- *Schollhorn, Wm. Co. (Pliers, Nippers, Punches & Hdw. Specialties), Wooster & Wallace
- *Scranton & Co. (Machy. & Hardware), 42 Church
- *†Seward, M. & Son Co. (Carriage Hardware, etc.)
- *SHUSTER, F. B. CO. (Machine Tools, etc.), 133 Mill River. (See adv. index, end of book)
- *Sigel, Edwd, Hooker Bldg.
- *Smith, Andrew H. & Co. (Needles, etc.)
- *Smith, Hobart E. (Machinist), 29 Artizan
- *Smith, W. J. & Co., 424 State
- *Snow & Petrelli Mfg. Co. (Yacht Cannon, Marine Reversing Gears, etc.), 698 Chapel
- *†Stannard Iron Fdy. Co. (Gray Iron & Builders' Castings)
- *Stiles, A. C., Anti-Friction Metal Co. (Brass Fdy. & Mfg. Heavy Machy.), 222 Boulevard
- *Thompson, Henry G. & Son Co. (Hack Saws, etc.), 6 Elm
- *Twiss, Nelson W. (Steam Engines, etc.)
- *Vandyke-Churchill Co., 28 Whitney av
- *†Warner, G. F. Mfg. Co. (Gray Iron Castings, etc.), James & East
- *West Haven Mfg. Co. (Hack Saws & Hdw. Specialties), West Haven
- *Winchester Repeating Arms Co. (Rifles, Guns, etc.), 195 Winchester av
- *†Yale Safe & Iron Co. (Iron Fdrs. & Bldrs.' Iron Work), West Haven
- NEW LONDON**—*Babcock Printing Press Mfg. Co. (Printing Presses, etc.)
- *Brennan, James (Brass)
- *†Brown Cotton Gin Co. (Cotton Gins, etc.)
- *†§Hasbrouck Motor Co. (Gasoline Engines & Motors)
- *†Hopson & Chapin Mfg. Co. (Heating Apparatus, Grey Iron Castings, etc.)
- *New London Vise Wks. (Vises, etc.)
- *†§New London Marine Iron Works (Fdrs., Machinists, Marine Railway)
- *New London Motor Co. (Motors, etc.)
- Thames Towboat Co.
- *†Whiton, D. E., Machine Co. (Machine Tools, etc. (Lathes & Drill Chucks)
- NEW MILFORD**—*Arcade Machine Works
- *†Northrop, J. A., Foundry Co.
- NAONK**—*Paine, J. H. & Sons (Engines & Machy.)
- NORTH WINDHAM**—*Hartson, L. M., Co.
- NORWALK**—†Arnold Co. (Textile Machy.)
- *†Meeker's Union Foundry
- *§Norwalk Brass Co. (Brass, Aluminum & Bronze Castings, Rough & Finished)
- *†Postal Typewriter Co. (Typewriters)
- NORWICH**—*Barber, M. A. (Cork Cutting)
- *§Bard Union Co. (Unions, etc.)
- *Chelsea File Works (Files)
- *Crescent Fire Arms Co. (Shot Guns, etc.)
- *Davenport, W. H. Fire Arms Co. (Fire Arms)
- *Gould, Augustus, Industrial Bldg.
- *Hopkins & Allen Arms Co. (Fire Arms)
- *Lester & Wasley (Envelope Machy.)
- *†McCrum-Howell Co. (Radiators & Heating Apparatus, etc.), Main Office, New York
- *Rogers, C. B. & Co. (Woodworking Machinery)
- *†Tobin Arms Mfg. Co. (Fire Arms, etc.)
- *§Tracy, C. Oscar (Brass Fdry.)
- *Uncas Specialty Co. (Auto Parts, etc.)
- *†Vaughn Foundry Co. (Gray Iron Castings)
- OAKVILLE**—*†Baird Machine Co. (Safety, Toilet & Badge Pin Machy.)
- *†Oakville Co. (Wire & Metal Co.)
- *Smith, Seymour & Son (Hardware)
- PLAINVILLE**—§Carter, E. T. (Brass Foundry)
- Clark, A. N. & Son (Bicycle Sundries, Brass Castings to Order)
- *Carter, L. H. (Brass Fdry.)
- *Clark, A. N. & Son (Bicycle Sundries, etc.)
- *Clark Caster Co. (Casters, etc.)
- *Elm City Brass & Rivet Co. (Brass Fire Place Furnishings, Brass Castings, etc.)
- *Lamb, B. & Co. (Machy.)
- *Norton & Jones Machine Tool Works (Machine Tools, etc.)
- *§Osborne & Stephenson Mfg. Co. (Brass Goods, etc.)
- *Trumbull Electric Mfg. Co. (Electric Specialties)
- PLANTSVILLE**—*Atwater Mfg. Co. (Carriage Hdw., etc.)
- *†Blakeslee Forging Co. (Carriage Hdw., Bicycle Supplies, etc.)
- *Thompson Drop Forging Co.
- PORTLAND**—*Anderson Coupling Co.
- *†§Pickering Governor Co. (Governors)
- PUTNAM**—*Johnson, E. E. & Co. (Lathes, etc.)
- *†Putnam Fdry & Mach. Corp. (Machine Tools)
- ROCK FALL**—*Smith, O. A. (Fire Arms, etc.)
- ROCKVILLE**—†Murless, H. B.
- ROCKY HILL**—*†Champion Mfg. Co. (Gray Iron Castings, etc.)
- ROXBURY**—†Bronson, W. & H.
- SAUGATUCK**—*†Computing Scale Co. (Scales, etc.)
- *Smith, E. C.
- SEYMOUR**—*†Church, S. B. (Windmills, etc.)
- *†Humphreysville Mfg. Co. (Boring Instruments & Edge Tools)
- *Klatt, E. A. (Iron Fdry.)
- *§Mathews, H. H. Co. (Bicycle Parts & Stove Trimmings)
- *Smith, Jas. M.
- *Swan, Jas. Co. (Augers, Bits, Drawing Knives, etc.)
- SHELTON**—(See Derby)
- SOUTHBURY**—*Stone, C. A. (Machy., etc.)

SOUTH COVENTRY—*Kingsbury & Davis Machine Co. (Set Machines, etc.)
 SOUTH NORWALK—*Artistic Bronze Co. (Bronze Specialties)
 *Automatic Tool Co. (Tools)
 *Colonial Fdry. & Machinery Co.
 *Craw, J. W., Laundry Machine Co. (Laundry Machy.)
 *Le Count, Wm. G. Lathe Dogs, etc.)
 *Lockwood Mfg. Co. (Hardware, Locks, etc.)
 *Miller, Julius W. (Machinist)
 *NORWALK IRON WORKS CO. (Air Compressors, etc.)
 *Norwalk Lock Co. (Hardware, etc.)
 *Robertson, Edwin B.
 *Specialty Mfg. Co.
 *Thompson, Robt. C.
 *Wheeler Bros. (Iron Fdry.)
 SOUTHPORT—*Fairfield Aluminum Foundry (Aluminum Castings)
 *Jelliff, C. O. Mfg. Corp. (Harrows, etc.)
 SOUTH WINDHAM—Smith & Winchester Mfg. Co. (Paper Bag Machinery)
 STAFFORDVILLE—*Amidon, S. B.
 STAMFORD—*Brown, Christian (Brass Foundry)
 *Blickensderfer Mfg. Co. (Typewriters etc.)
 *Davenport & Tracey Co. (Piano Plate Foundry)
 *Lozier Motor Co. (Motors, etc.)
 *Muench, Geo.
 *Oven Equipment & Mfg. Co.
 *Stamford Foundry Co. (Stoves, etc.)
 *Stamford Gas Stove Co. (Stoves, Heaters, etc.)
 *Stamford Iron & Brass Foundry (Building & Mill Construction, Castings, etc.)
 *Stamford Jobbing Foundry.
 *Stamford Motor Co. (Gasoline Engines)
 *Yale & Towne Mfg. Co. (Builders Hwd.)
 STONINGTON—*Atwood-Morrison Co. (Silk & Spool Cotton Machy.)
 *Miller's A. B. Sons.
 STONY CREEK—*Beach, O. B. (Gas Engines)
 TERRYVILLE—*Eagle Lock Co. (Locks, etc.)
 *Terry, Andrew Co. (Malleable Iron Fdrs.)
 THAMESVILLE—(See Norwich.)
 THOMASTON—*Thomas, Seth Clock Co. (Clocks, etc.)
 THOMPSONVILLE—*Bushnell, G. H. Press Co. (Cotton Seed Oil Presses, etc.)
 *Westfield Plate Co. (Coffin Trimmings, etc.)
 TOLLAND—*Clough, R. M. (Machine Tools)
 TORRINGTON—*Excelsior Needle Co. (Wire Rod & Tube Pointing Machy., etc.)
 *Hendey Machine Co. (Machine Tools)
 *Hotchkiss Foundry Co.
 *Manufacturers' Foundry Co. (Grey Iron & Brass Castings, Water Jacketed Cylinders, etc.)
 *Perkins, E. A. Electric Co.
 *Progressive Mfg. Co. (Screws, Gas Engines, etc.)
 *Torrington Mfg. Co. (Rolling Mill Machy., etc.)
 *Turner & Seymour Mfg. Co.
 UNIONVILLE—*Union Cutlery & Hardware Co. (Hardware)
 *Union Nut Bolt Co. (Bolts, Nuts, etc.)
 *Upson Nut Co.
 WALLINGFORD—*Ives, W. A. Mfg. Co. (Bits Augers, etc.)
 *Judd, H. L. Co. (Small Hardware)
 *McCormick Heating Co. (Hot Water Heaters)
 WATERBURY—*American Brass Co.
 *American Pin Co. (Brass & Bronze Castings, Pins, etc.)
 *American Ring Co. (Castings, etc.)
 *Atlas Machine Co.
 *Benedict & Burnham Mfg. Co. (Brass Mfrs.)
 *Blake & Johnson (Power & Foot Presses, Rivet, Bicycle, Milling & Wire Forming Machinery, etc.)
 *Bristol Co. (Recording Instruments, etc.)
 *Brooks & Richard Mfg. Co., Inc. (Dies, Fine Tools, Sheet Metal Novelties, etc.)
 *Chase Rolling Mill Co. (Brass Mfrs.)
 *Cross & Spiers Machine Co. (Brass Working Machinery & Foot & Power Presses)
 *Draher, Jno. (Power Presses, Rivet, Block, Screw & Button Machy Dies, etc.)
 *Fry, B. H. & Co. (Iron Founders).
 *Henderson Bros. (Machinists & Tumbling Barrels)
 *Manufacturers Foundry Co. (Gray Iron & Brass Castings, etc.)

*Manville Bros. Co. (Power Presses, Watch Machy & Special Automatic Machy)
 *Manville, E. J. Machine Co. (Power Presses, Wire Working, Rivet or Heading Machinery)
 *Matthews & Willard Mfg. Co. (See Scoville Mfg. Co.)
 *Noera Mfg. Co. (H'dware Specialties)
 *Novelty Mfg. Co. (Brass Goods)
 *Platt Bros. & Co. (Buttons, etc.)
 *Plume & Atwood Mfg. Co. (Brass Goods, etc.)
 *Randolph-Clowes Co. (Brass Mfrs.)
 *Risdon, S. A. (Dies, Light Machy & Tools)
 *Scoville Mfg. Co. (Gray Iron & Semi Steel Castings, etc.)
 *Smith & Griggs Mfg. Co. (Brass & Metal Goods)
 *Steele & Johnson Mfg. Co. (Brass Castings, etc.)
 *Waterbury Brass Co. (Goods, etc.)
 *Waterbury Brass Goods Corp'n (Brass Specialties)
 *Waterbury Clock Co. (Clock Mfrs.)
 *Waterbury Farrel Foundry & Machine Co. (Drop, Power, Hydraulic & Foot Presses, Brass & Copper Rolling Mill Machy, etc.)
 *Waterbury Mfg. Co. (Brass Goods)
 *Waterbury Machine Co. (Wire Drawing Machy, Presses, Dies & Special Machy)
 *Waterbury Tool Co. (Small Tools)
 *Waterbury Wire Die Co. (Dies, etc.)
 WATERVILLE—*Berbecker & Rowland Mfg. Co. (Brass Specialties, etc.)
 *Rowbottom Machine Co. (Special Automatic Machy of every description, Presses, Grinders, Lathes, Machines, etc.)
 WEST HAVEN—*Yale Safe & Iron Co.
 WEST MYSTIC—*Holmes Motor Co.
 WESTON—*Wheeler, Henry B. (Iron Fdry.)
 WESTPORT—*Bradley's, G. W. Sons (Axes & Edge Tools)
 WEST STAFFORD—*Bradway, C. P. Machine Works
 WILLIMANTIC—*Asher Mangle Co. (Mangles, etc.)
 *Willimantic Machine Co. (Silk & Thread Machy, etc.)
 WINDSOR—*Bavner Novelty Co.
 *Eddy, A. H.
 WINDSOR LOCKS—*Clark, Geo. P. Co. (Hand Trucks, Casters, etc.)
 *Horton, E. & Son Co. (Lathe Chucks, etc.)
 *Windsor Locks Machine Co. (Paper & Pulp Mill Machy.)
 WINSTED—*Brown Machine Co. (Cutlery & Light Machy.)
 *Carter & Hakes Machine Co. (Machine Tools)
 *Gilbert, Wm. L. Clock Co. (Clocks, etc.)
 *Goodwin & Kintz Co.
 *Miles, Geo. Co. (Pneumatic Cranes, Lifts, etc.)
 *MOORE, FRANKLIN CO. (Hoists, Cranes, Brass & Light Grey Iron Castings) (See adv. index, end of book)
 *Winsted Edge Tool Works (Edge Tools, etc.)
 *Winsted Mfg. Co. (Scythes)
 YALESVILLE—*Parker, Charles Co.
 *Yale, C. I., Mfg. Co. (Spoons & Edge Tools)

DELAWARE.

DOVER—*Forbes & Forbes (Machinists)
 *Jones, E. L. & Co. (Machy.)
 EDGE MOOR—*Edge Moor Iron Co. (Bollers, etc.)
 HOCKESSIN—*Williamson, Thomas
 LAUREL—*Adams & Oldfield
 MILFORD—*Matthews, Isabella
 NEW CASTLE—*Baldt Steel Co. (Steel Castings, etc.)
 *Brylgon Steel Casting Co. (Castings)
 SMYRNA—*Taylor, George W.
 WILMINGTON—*American Car & Foundry Co. (See St. Louis, Mo.)
 *American Machine Co. (Hot Air Pumping Engines, etc.)
 *Baker, G. W. & Co. (Leather Working Machinery)
 *Betts Machine Co. (Machine Tools, etc.)
 *Christiana Machine Co.
 *Crescent Foundry Co. (Cast Iron Pipe)
 *Davis, L. D. (Iron Railings, etc.)
 *Delaware Machine Works (Automobiles & Gasoline Engines)
 *Delaware Marine Supply Mfg. Co.
 *Diamond Shear Co. (Edged Tools, etc.)
 *Diamond State Car Spring Co. (Car Springs)
 *Diamond State Steel Co.
 *Edge Moor Iron Co.

*Garrett, Miller & Co. (Electric Fixtures, etc.)
 *Harlan & Hollingsworth Corp'n (Steel Ships, Marine Engines, Car Buildings & Rough Finished Castings, etc.)
 *Heinel, H. A. Co.
 *Henderer's, A. L. Sons & Co.
 *Hickman, Franklin B.
 *Hilles & Jones Co. (Machine Tools, etc.)
 *Lehigh Valley Spring Works (Car Springs, etc.)
 *Lobdell Car Wheel Co. (Car Wheels & Chilled Rolls, etc.)
 *Modern Machinery Co. (Leather Machinery, etc.)
 *Novelty Machine Co. (Machinists)
 *Poole, J. Morton Co. (Paper Mill Machy & Castings, etc.)
 *Pusey & Jones Co. (Iron & Brass Fdrs., Engines, Paper Mill Machy, Steel Steamboats, etc.)
 *Remington Machine Co. (Brass Fdrs. & Ice Machines)
 *Seidel & Hastings Co.
 *Shaw, B. F. Co.
 *Slocomb, F. F. & Co. (Leather Working Machy & Pneumatic Tools, etc.)
 *Speakman Supply & Pipe Co. (Brass Fdrs. & Plumbers Supplies)
 *Stowe Mfg. Co. (Gasoline Engines, etc.)
 *Trump Bros. Machine Co. (Textile Machy, etc.)
 *Walker & Elliott (Phosphate Mill & Machinists)
 *Wilmington Brass Co.
 *Wilmington Machine Co. (Hot Air Pumping Engines)
 *Wilmington Foundry Co. (Castings, etc.)
 *Wilmington Malleable Iron Co.

DISTRICT OF COLUMBIA.

WASHINGTON—*Alexander Iron Works, Automatic Scale Co. McGill Bldg
 *Bealor & Schmid
 *Bellwood Mfg. Co., Bond Bldg.
 *Carl, Frederick (Insts. & Modelmaker), 631 G, N W
 *Catlin, E. H. & Co., 309 13th, N W
 *Cragg, H. C. Mfg. Co., 228 K, S W
 *Doremus Machine Co. (Machinists), 300 13th, N W
 *Forsberg, Gustave W. (Machinist), 526 13th, N W
 *Farrow Arms Co., 210 2d, N W
 *Gichner, Fred S. (Iron Fdry), 1214 D, N W
 *Gray, E. N. & Co. (Iron Fdrs. & Machinists), 216 Maine av, S W
 *Hurley, Jno. E. (Machinist), 1219 Ohio av, N W
 *Jorss, A. Fred (Iron Fdry & Builders' Iron Work), 315 13th, N W
 *Murray Engineering Co., K & 33d
 *Pruett, Jno. M. (Iron Fdry), 3105 K, N W
 *Schneider's, C. A. Sons (Fdrs. & Machinists), 212 12th, N W
 *Springman, J. T., Jr., & Bro. (Iron Fdrs.), 904 7th, S W
 *White, Chas. & Co. (Iron Fdrs.), 418 O, S W
 *White, Fred J. (Iron Fdry.), 462 Maine av, S W

FLORIDA.

APALACHICOLA—*Apalachicola Iron Works Co.
 APOPKA—*Florida Iron & Wood Works
 ARCHER—*Maddox Foundry & Machine Works
 BRADENTOWN—*Bradentown Machine & Wagon Works
 EUSTIS—*Miller, W. H.
 GAINESVILLE—*Gainesville Foundry & Machine Works
 JACKSONVILLE—*Florida Machine Works.
 *Murphy, Timothy, Iron Works.
 LAKE CITY—*Johnson, Lott W.
 LIVE OAK—*Robbins & McGehee.
 Ocala—*Ocala Gas Engine Works
 *Ocala Iron Works (Inc.)
 ORLANDO—*South Florida Fdry. & Mach. Works
 PALATKA—*Hanley, R. H.
 *Stanton Foundry & Machinery Co.
 PENSACOLA—*Dotson & Co. (Inc.)
 *Gulf Coast Foundry Co.
 *Gulf Machine Works
 *Pensacola Iron Works & Supply Co.
 ST. PETERSBURG—*Ramm, F. W. & Sons
 TALLAHASSEE—*Tallahassee Iron Works
 TAMPA—*Excelsior Machine Works
 *Gulf Machine & Auto Works
 *Tampa Foundry & Machine Co.
 WEST PALM BEACH—*Fowler Bros.

GEORGIA.

ALBANY—*†Pattison's, Thos. Sons.
 ASHBURN—*Josella Agricultural Co. (Agricultural Implements)
 ATHENS—*†Athens Foundry & Machine Works
 *Umbach, F. G. (Harrows, etc.)
 ATLANTA—*American Mfg. Co. (Machinists' Tools)
 *American Pipe Bending Machine Co., 145 Central av
 *Ashley, Henry P., 27 S. Forsyth
 *†Atlanta Agricultural Works, 1200 Marietta
 *†Atlanta Car Wheel & Mfg. Co. (Car Wheels, etc.), Equitable Bldg.
 *Atlanta Iron & Brass Bed Co.
 *†Atlanta Machine Works (Marble & Gold Mining Machy., Engines, Castings, etc.), 1 King
 *†Atlanta Stove Works (Stoves), Irwin & Krog
 *Baker, P. D. (Iron Beds)
 *†Continental Gin Co. (See Birmingham, Ala.)
 *†De Loach Mill Mfg. Co. (Flour & Saw Mill, etc.), Highland av. & Sou. R. R.
 *†Fulton Fdry. & Machine Works, 90 Auburn av.
 *Houchin Mfg. Co. (Tools), 169 S. Forsyth
 *Georgia Vending Machine Co.
 *Pearl Laundry Machinery Co.
 *Riddell Bros.
 *Schroeter, J. H. & Bro., 44 Mitchell
 *Seitzinger, T. F., 447 Marietta
 *§Southern Brass Works
 *Southern Laundry Machinery Co.
 *†Van Winkle, E., Gin & Machine Works (Cotton Seed Oil, etc.)
 *†Vulcan Fdry. & Iron Works, 515 Marietta
 *†Withers Foundry & Machine Works (Iron & Brass Fdrs.), Empire bldg
 AUGUSTA—*†Georgia Iron Works (Saw Mill Machinery, etc.)
 *†Lombard Iron Works & Supply Co. (Engines & Saw Mill Machy., etc.)
 BAINBRIDGE—*†Sutherland, D. T.
 BREMEN—*Bremen Machine Works.
 BRUNSWICK—*†Bay Iron Works
 *†Parker-Hensel Engineering Co.
 BUFORD—*Lowe, T. F.
 CARTERSVILLE—*†Withers Foundry & Machine Co.
 COLUMBUS—*†Columbus Iron Works Co. (Ice & Refrigerating Machy., etc.)
 *Dixie Force Pump Co. (Force Pumps, etc.)
 *†Golden Foundry & Machine Co. (Power Transmitting, etc.)
 *†Lummas, F. H. Sons Co. (Cotton Gins, etc.)
 *†Pekor Iron Works (Inc.)
 *Sauls Bros. (Machinists)
 *†Southern Plow Co. (Cultivators, Plows, etc.)
 CORDELE—*Baldridge, Edward M.
 COVINGTON—*Howard & Rainey
 DALTON—*†Dalton Fdry. & Machine Works
 *Finley & Son
 *Manly Machine Co.
 *†Mehaffey, R. L., Stove Mfg. Co. (Stoves, etc.)
 *†Nancy Hanks Hay Press & Foundry Co. (Hay Presses, Pea Threshers, etc.)
 *Sanders Improved Hay Press Mfg. Co. (Hay Presses, etc.)
 *Sanders Mfg. Co. (Pea Hullers, etc.)
 DOUGLAS—*†Douglas Foundry & Machine Works
 EAST POINT—*†Atlanta Utility Works (Hay Presses, Cotton Oil Machy, etc.)
 *Southern Saw Works
 DEMOREST—*†Demorest Foundry & Machine Co.
 DICKEY—*Parkins, E. P.
 FAIRBURN—*†Carmical Agricultural Works (Agricultural Implements)
 FITZGERALD—*Burkhart, H. A.
 *†Fitzgerald Iron Works
 FORT VALLEY—*Anholme, J. W. (Machinist)
 *Georgia Agricultural Works (Agricultural Implements)
 *†Martin, A. S.
 GAINESVILLE—*†Gainesville Iron Works (Fdrs. & Machinists)
 HAWKINSVILLE—*Pate Bros. & Co.
 HYDE—*Ware & Richardson (Harrows, etc.)
 LUMBER CITY—*Day, F. F.
 MACON—*†Findlay Iron Works Co.
 *Grant Mfg. Co. (Cotton Gins & Planters, etc.)
 *†Mallory & Taylor Iron Works
 *†Schofield's, J. S., Sons Co. (Sugar Machinery, etc.)
 MARIETTA—*†Glover Machine Works (Locomotives, etc.)
 MONTICELLO—*Benton Mfg. Co. (Agricultural Implements)

MORELAND—*Camp, E. N., & Son
 MOULTRIE—*†Moultrie Machine & Fdry Co.
 NEWNAN—*†Cole, R. D. Mfg. Co. (Engines, etc.)
 NORCROSS—*Buchanan Plow & Implement Co.
 OCILLA—*Sikes Mfg. Co. (Hay Presses, etc.)
 QUITMAN—*†Quitman Mfg. Co.
 ROCK MART—*†Rock Mart Stove & Fdry Co.
 ROME—*†Bowie Stove Co. (Stoves)
 *†Davis Fdry. & Machine Works
 *†Georgia Fdry. & Machine Works (Shingles & Saw Mill, etc.)
 *†Hanks Foundry Co.
 *†Rome Scales Factory (Scales, etc.)
 *†Southern Co-operative Fdry. Co. (Stoves)
 *†Towers & Sullivan Mfg. Co. (Cultivators, Harrows, Plows, etc.)
 SANDERSVILLE—*†Lang's Variety Works.
 SAVANNAH—*Davis-Forrest Machine Works
 *Caracciola, Edward & Co.
 *†Kehoe, Wm. & Sons (Iron & Brass Fdrs. & Saw & Phosphate Mill Machy., etc.)
 *Mingledorff & Co.
 *†Rourke, Jno. & Sons (Iron & Brass Fdrs., Machinists, Heavy Forgings, etc.)
 *†Savannah Locomotive Works & Supply Co. (Locomotives Rebuilt, etc.)
 *†Seaboard Pipe Foundry Co.
 *Strickland Machine Works.
 TALLAPOOSA—*†Greene, M. A.
 *†Southern Car Wheel & Iron Co.
 THOMASVILLE—*†Thomasville Iron Works.
 TIFTON—*†Tifton Foundry & Machine Co.
 UNIONPORT—*Bryan-Moody Mfg. Co. (Machinery)
 VALDOSTA—*South Georgia Machine Shop
 *†Valdosta Foundry & Machine Co.
 WAYCROSS—*†Gillon, J. H. Machine Co.
 *†Hicks Gas Motor Co. (Gas Motors)
 *†South Atlantic Car Mfg. Co. (Car Bldrs.)
 WAYNESBORO—*Moble Bros. (Machy.)
 WEST POINT—*†West Point Iron Works
 WINDER—*†Winder Foundry & Machine Works

IDAHO.

BOISE—*†Baxter, Jas. & Co.
 GRANGEVILLE—*Grangeville Implement Co. (Ltd.) (Agrl. Impls.)
 MOSCOW—*†Rhodes Iron Works
 NAMPA—*†Nampa Fdry. & Machine Works
 NEZPERCE—*Richardson & McCorkle.
 POCATELLO—*†Union Pacific R. Shops
 WALLACE—*†Coeur d'Alene Iron Works

ILLINOIS.

ALEDO—*Venable, Geo. D.
 ALLENVILLE—*†Ideal Car Loader Co.
 ALTON—*Beall Bros. (Inc.) (Miners' Tools, Shovels & Specialties)
 *†Duncan Fdry. & Machine Works (Box Car Loaders & Car Wheels, etc.)
 *†Hancock Disc Plow Co. (Agrl. Impls.)
 *†Hapgood Plow Co. (Agrl. Impls., Plows, Drills, Planters, etc.)
 *Hayden, Geo. D. Machine Co.
 *Sparks, C. F. Machine Co.
 ANNA—*Hargrave, Allen.
 ARCOLA—*Curtis, F. W.
 ARLINGTON HEIGHTS—*†Peter & Volz
 ASHTON—*Moore, L. T.
 ASSUMPTION—*Consolidated Mfg. & Electric Co. (Electric Specialties)
 *McClure, J. W.
 ASTORIA—*Savill, W. & Bro.
 AURORA—*†AMERICAN WELL WORKS. (Well Machinery & Air Compressors). (See adv. index, end of book)
 *†American Wood Working Machinery Co. (Wood Working Machinery)
 *Aurora Automatic Machinery Co. (Pneumatic Steel Tools, etc.)
 *†Aurora Foundry Co. (Grey Iron & Machine Pulley Castings, etc.)
 *†Aurora Metal Co. (Brass & Bronze Castings & Metallic Piston Packing)
 *§C. B. & Q. R. R. Co. (Brass Shops)
 *†Cassidy's Sons
 *Divekey Bros.
 *†Love Bros. (Inc.)
 Peters, Henry Brass Foundry Co.
 *Phillips, T. L. (Feed Mills, Hot Water Heaters, etc.)
 *†Plaln, George (Gasoline Lights & Stoves)
 *†Rathbone, Sard & Co. (Stoves, etc.)
 *RICHARDS MFG. CO. (Door Hangers, etc.) (See adv. index, end of book)
 *†Richards Standard Mfg. Co. (Hdw. Specialties & Brass Foundry)
 *†Standard Brake Shoe Co.
 *†Stephens-Adamson Mfg. Co. (Power Transmitting Mrchy.)

*Ustad, S. (Machinist)
 *Vindex Electric Co. (Transformers, etc.)
 *Western Wheeled Scraper Co. (Street Sweeping Machines & Road Scrapers, etc.)
 *†WILCOX MFG. CO. (Door Hangers, Hdw. Specialties, etc.) (See adv. index, end of book)
 AVA—*Splnner, E. F.
 *Underwood, Wm. J.
 BATAVIA—*†Appleton Mfg. Co. (Agrl. Impls.)
 *†Challenge Co. (Feed Mills & Cutters, Corn Shellers, Windmills, etc.)
 *Newton Wagon Co. (Heavy Farm Wagons, etc.)
 *†Shumway, C. W. & Sons (Machinery Castings, etc.)
 *†Snow Mfg. Co. (Pumps, Windmills, etc.)
 *†Sperry, D. R. & Co. (Hollow Ware Founders)
 *†U. S. Wind Engine & Pump Co. (Wind Mills, Pumps, Feed Mills & Corn Shell-ers, etc.)
 BELLEVILLE—*†Belleville Foundry Co.
 *Belleville Implement & Motor Co. (Agrl. Implements, Motors, etc.)
 *†Belleville Stove & Range Co. (Stoves, etc.)
 *†Born, J. C. & Bro.
 *†Crown Foundry Co. (Iron Founders)
 *†Eagle Foundry Co. (Stoves)
 *†Ehret, W. H. (Machinist & Brass Founders)
 *†Enterprise Foundry Co. (Iron Fdrs.)
 *†Excelsior Foundry Co.
 *†Gundlach, Phillip M.
 *†Harrison Machine Works (Threshers & Engines)
 *Herzler-Henninger Machine Works (Machinists)
 *†Oakland Foundry Co.
 *†Quality Stove & Range Co.
 *†Queen City Stove & Range Co.
 *†Richland Foundry Co. (Iron Fdrs.)
 *†Rinck Mfg. Co. (Threshing Machine Cylinders)
 *†Rompel Foundry Co.
 *†St. Clair Foundry (Iron Fdrs.)
 *Schwartz, Jos. & Son (Machinists)
 *†Snyder & Baker Stove Works (Stoves)
 *Wilson Steel Range Co. (Steel Ranges, etc.)
 BELVIDERE—*†Big Thunder Mfg. Co. (Sewing Machine Specialties, etc.)
 *†Columbia Heating Co. (Heaters, etc.)
 *†Frederick & Linscott
 *†National Sewing Machine Co.
 BENTON—*Gray, J. W.
 BLOOMINGTON—*†American Foundry & Furnace Co. (Hot Air Furnaces & Castings, etc.)
 *§Bloomington Iron & Brass Foundry (Inc.)
 *†Chicago & Alton R. R. (Iron Fdry.)
 *Constant, B. S. Co. (Elevator & Grain Machinery, etc.)
 *†Co-operative Stove Co. (Stoves)
 *†Kelser, Van Leer Co.
 *†Loudon, Robert
 *†Ma Girl, P. H.
 BLUE ISLAND—*Bronson, E. B. & Co.
 BRADLEY—*†Bradley, David Mfg. Co. (Plows, Cultivators, Planters, etc.)
 *†Burrell Mfg. Co.
 *†Turk, Jos. Mfg. Co. (Iron Beds, etc.)
 BUSHNELL—*Bushnell Pump Co., (Pumps, etc.)
 *Norcross, C. & Son (Garden Plows, etc.)
 *†Vertrees, W. J. (Fences, Water Tanks & Rural Mail Boxes)
 CAIRO—*†McCarthy & Malinski
 *†Reed, J. B. (Machine Tools & Castings, etc.)
 *†Rennie, Jno. T.
 CAMPBELL HILL—*Shaw, Hans (Machinists & Plows)
 CANTON—*†Parlin & Orendorff Co. (Plows, Cultivators, Planters, Lists, etc.)
 *†Savill & Chandler Co. (Stoves, etc.)
 *†Snyder, A. E.
 CAPE GIRARDEAU—*†Fuerth, Joe
 CARBON HILL—*†Wilmington Foundry & Machine Co. (Fdrs. & Machinists). (See Chicago)
 CARLOCK—*Shad, S. H.
 CARMi—*Graham Mfg. Co. (Machinists)
 CARPENTERSVILLE—*†Illinois Iron & Bolt Co. (Presses, Jacks, Vises, Drills, etc.)
 *†Star Mfg. Co. (Steel Castings & Plows)
 CARTERVILLE—*†Coal Belt Machine Works
 *Illinois Engineering & Machine Co.
 CARTHAGE—*Leader Mfg. Co. (Grain Separators & Cleaners)
 CENTRALIA—*†Benson, Jas. (Harrows, etc.)
 CHAMPAIGN—*†Burr, E. M. & Co.
 *†Curtis, Slingbusch & Co.
 CHARLESTON—*Merritt, Saml. H.
 CHESTER—*†Oetting & Daler
 CHICAGO—*§Acme Metal Mfg. Co. (Brass Fdrs.), 47 S Canal
 *†Acorn Brass Mfg. Co. (General Machinists, Brass Fdrs. & Finishers), Fulton st. Peoria to Green

*Adams Bros. (Special Machy., etc.), 911 N Kedzie av
 *Adams & Westlake Co. (Railroad Specialties, Brass Fdrs., Finishers, etc.), Ontario & N Franklin
 *Adapt Machinery Co. (Special Machinery), 1630 Wabash av
 *Advance Machine Co. (Slot Machines), 194 S Clinton
 *Aeromotor Co. (Windmills), Campbell av n of 12th
 *Alexander, James, 72 W Monroe
 *Allbright-Neil Co. (Packers' Machy.), 4019 Wentworth av
 *Allen, W. D. Mfg. Co. (Brass Founders' Brass Specialties, Finishers, etc.), 151 Lake
 *ALLIS-CHALMERS CO. (See Milwaukee, Wis.)
 *American Bronze Foundry Co. (Bronze Founders & Tablets, etc.), 73d & Woodlawn av
 *American Can Co. (Can Makers & Canners' Machinery, etc.), 135 Adams, Chicago, Ill.
 *American Car & Foundry Co. (See St. Louis, Mo.)
 *American Fdry. & Machy. Co. (Mining & Sugar Machy.), Monadnock blk.
 *American Industrial Co. (Piano Hdw.), 181 E Division
 *American Metalware Co. (Brass Bedsteads, etc.), 87 Huron
 *American Radiator Co. (Radiators, etc.), 282 Michigan av
 *American Steel Foundries. (Steel Castings), 277 Dearborn
 *American Steel & Wire Co. of N. J., The Rookery
 *Amundsen, A. & Co. (Tools & Dies), 69 W Jackson boul
 *Anderson, Axel. H. (Brass Fdrs., Finishers, etc.), 52 N Ann
 *Anderson Bros. (Brass Founders & Finishers), 28 W Washn.
 *Anderson, Carl Co. (Gas & Gasoline Engines), Huron & Kingsbury
 *Anderson, Chas. B. (Brass Fdrs., Finishers, etc.), 116 S Clinton
 *Anderson, C. F. & Co. (Printers' & Binders' Machinery), 394 S Clark
 *Anderson Machine Co. (Machinists), 66 W Lake
 *Andrews & Johnson Co. (Blowers), 256 Washington av
 *Arithmograph Co. (Adding Machines.)
 *Armstrong Bros.' Tool Co. (Tool Holders, Ratchet Drills, etc.), N Francisco av
 *Arnold, Schwinn & Co. (Bicycles, etc.), 945 N 43d av
 *Art Bedstead Co., 37th & Rockwell
 *Atlantic Tool & Machine Co. (Tools, Dies & Special Machinery), Atlantic bldg
 *Austin Mfg. Co. (Road Grading & Well Drilling Machy), 315 Dearborn; Works, Harvey, Ill.
 *Automobile Engineering & Power Co. (Gas & Gasoline Engines), 5836 S Centre
 *Automatic Machine & Tool Co. Coin Operating Machines), 45 S Canal
 *Automatic Racking Machine Co., 28th & Groveland av
 *Ayes & Co. (Lathe Dogs, Pipe Cutters, etc.), 57 Ellen
 *Barber, A. H., Creamery Supply Co. (Ice & Refrigerating Machy. & Dairy Supplies), 229 S Water
 *Barnum & Richardson Mfg. Co. (Car Wheels, Railroad & Elevator Castings, etc.), 64 S Jefferson
 *Barr & Cummings Fdry. Co., 36 Erie
 *Bastian, Chas. L. Mfg. Co. (Brass Founders & Finishers, Fire Dept. Supplies & Castings), 76 Illinois
 *Beardslee Chandelier Mfg. Co. (Gas & Electric Fixtures), 176 S Clinton
 *Benedict, L. (Canning Machy.), 128 S Clinton
 *Benner Mfg. Co., 110 W Monroe
 *Bergbom & Roberg (Machinists & Tool Makers), 30 W Randolph
 *Bertelsen, Jesse T. (Grilles, etc.), 306 S Clinton
 *Blakeslee, G. S. & Co. (Dish Washing Machines), 325 Dearborn
 *Blomfeldt & Rapp (Special Machy., Dies, etc.), 39 W Randolph
 *Boland Machy. Co. (Ice & Washing Machy), 209 S Clinton
 *Boller, Peter (Machinist), 24 W Randolph
 *Bolter's, A. Sons (Ins.) (Iron Founders, etc.), 84 La Salle
 *Bottlers' Machinery Mfg. Co. Labelling Machines, etc.), 24 Michigan
 *Brady, Jas. A. Foundry Co. (Iron Foundry, Grey Iron Castings), 2842 Archer av

*Brady, Jno. F. Turbine Co. (Turbine Engines), 45 Fulton
 *Brighton Foundry Co. (Iron Fdry.), 330 S Western boul
 *Bromm, Fred. J. (Tools), 2564 S Halsted
 *BROWN BROS. MFG. CO. (Builders' Iron Work & Castings & Sidewalk Lights), W 22d & Campbell av. (See adv. index, end of book)
 *Brown Specialty Machinery Co. (Core Making Machines, etc.), Jackson Boul & Clinton
 *Brucker, Michael (Fdry. & Stove Repairs), 325 N Lincoln
 *Brunner & Lay Stone Jacks, Tools, etc.), 133 W Polk
 *Buda Foundry & Mfg. Co. (Railway Cars, Axles, Wheels, Track Equipments, etc.), 9 Jackson boul.; Works, Harvey, Ill.
 *Buisson Bros.' Mfg. Co. (Machinists), 3146 Wentworth av
 *Burdette-Rowntree Mfg. Co. (Brass, Bronze & Aluminum Castings & Elevator Fixtures, Finishers, etc.), 85 W Jackson boul
 *Burrell Mfg. Co., 251 S Jefferson
 *Burton, A. G. Son (Safe Locks, etc.), 133 S Clinton
 *Butler St. Foundry & Iron Co. (Iron Fdry), 3422 Butler
 *Caldwell, H. W. & Son Co. (Elevating & Conveying, Grain Elevator & Power Transmitting Machinery), Western av & 17th
 *Carmichael Range Co. (Stove & Range Mfrs.), 195 Kinzie
 *Cassady-Fairbanks Mfg. Co. (Automobile & Bicycle Parts, etc.), Englewood
 *Cavanaugh-Darley Co. (Gas Engines), 23 Plymouth pl
 *Central Chandelier Co., 513 Fulton
 *Challenge Machinery Co. (Printing Machinery), 127 Market
 *Chicago Art Metal Works (Brass Ornaments, etc.), 67 Lake
 *Chicago Brass Co. (Brass Fdrs. & Finishers), 166 Lake
 *Chicago Bridge & Iron Works, Throop c W 105th
 *Chicago Crossing Co. (R. R. Frogs, Crossings, etc.)
 *Chicago Die & Electric Co. (Electric Goods), 64 Fulton
 *Chicago Drop Forge & Foundry Co. (Drop Forgings, Castings, etc.), Kensington
 *Chicago Faucet Co. (Brass Fdrs. & Finishers), 200 S Clinton
 *Chicago Flexible Shaft Co. (Flexible Shafts, etc.), La Salle av & Ontario
 *Chicago Foundry Co., 56th av, bet. Armistage & Grand aves
 *Chicago Hardware Foundry Co. (See Chicago Heights, Ill.)
 *Chicago Iron Foundry Co., 830 Austin av
 *Chicago Machine & Washer Co., 99 Bunker
 *Chicago Machinery Mfg. Co., 88 W Jackson boul.
 *Chicago Malleable Castings Co., W 120th & Centre av
 *CHICAGO ORNAMENTAL IRON Co. (Builders' Iron Work & Castings, etc.), 37th & Stewart av. (See adv. index, end of book)
 *CHICAGO PNEUMATIC TOOL CO. (Pneumatic Tools, Air Compressors, etc.), Flsher bldg. (See adv. index, end of book)
 *Chicago Pulley & Shafting Co. (Power Transmitting Appliances), 54 S Canal
 *Chicago Railway Equipment Co., 4054 Princeton av
 *Chicago Ship Building Co. (Marine Engines, Ship Builders, etc.), 101st & Calumet river
 *Chicago Spring Butt Co. (Hardware Specialties & Brass Fdrs.), 491 Carroll av
 *Chicago Stove Works (Stoves, etc.), Blue Island av & W 22d
 *Chicago Stove & Range Co. (Stoves & Ranges), 237 E 26th
 *Chicago Time Lock Co., 1370 N Francisco av
 *Chicago Water Motor & Fan Co. (Water Motors, etc.), 22 S Canal
 *Chicago Writing Machine Co. (Typewriters), 35 Randolph
 *Chisholm, Boyd & White Co. (Brick Machinery, etc.), W 57th & Wallace
 *Clow, Geo. E. & Co. (Metal Specialties), 72 W Washn
 *Clow, Jas. B. & Sons (Inc.) (Cast Iron Pipe & Plumbers' Supplies), 342 Franklin
 *Clyde Machine Works (Crank Pin Machinery, etc.), 3913 Union av

*Colborne Mfg. Co. (Gas Engines, etc.), 31 Indiana
 *Cole Mfg. Co. (Stoves & Ranges), 3218 9 Western av
 *Comptograph Co. (Adding & Listing Machines), 146 Blackhawk
 *Congress Iron Foundry (John Kelly, Prop.) (Grey Iron Castings, Small & up to 3,000 pounds)
 *Conkling Machy. Co. (Laundry Machy.)
 *Confectioners' & Bakers' Supply Co. (Confectioners' & Bakers' Machy.), 218 E Washington, Chicago, Ill.
 *Consolidated Press & Tool Co. (Machinists & Special Machy.), 96 N Clinton
 *Cook & Chick Co. (Machinists, etc.), 255 Kenzie
 *Cooney Bros. (Brass Fdrs. & Finishers), 3346 Halsted
 *Cooper, Abraham (Brass Fdrs. & Finishers), 92 11th
 *Cowper Mfg. Co. (Coin Operating Machines), 166 S Clinton
 *Cragin Foundry & Mfg. Co., 19th & Rockwell
 *Crane Co. (Steam Specialties & Cast Iron & Brass Goods). (See adv. index, end of book)
 *Crary Machine Works, 41 Indiana
 *Creamery Package Mfg. Co. (Ice & Refrigerating Machines & Creamery Supplies), 182 E Kinzie
 *Cribben & Sexton Co. (Stoves & Plumbers' Enamelled Ware, etc.), 56 Erie
 *Cross Press & Sign Co. (Wood Printing Machines), 57 Dayton
 *Culiman Wheel Co. (Sprockets for Roller & Block Chains), 1019 Dunning
 *Cummins, B. F. Co. (Check Perforators, etc.), 42 W Jackson boul
 *Daly & Anderson (Millwrights & Machinists), 74 W Monroe
 *Dauchy Iron Works (Builders' Iron Work, Castings & Vault Lights), 84 Illinois
 *Davis, G. M. Regulator Co. (Valves, etc.), 144 Milwaukee av
 *Davis, Jno. Co. (Steam Specialties, Cast Iron Fittings, etc.), Halsted, 22d & Union
 *Davis, Horwich & Steinman (Brass & Iron Beds), 2256 La Salle
 *Davison Fdry. Co. (Light & Heavy Gray Iron Castings, etc., Manhole & Conduit Covers, Catch Basins, etc.), 235 Johnson
 *Dawson Bros. (Grates & Metal Trimmings), 197 N Halsted
 *Dearborn Foundry Co. (Builders' Iron Work & Castings), 1525 Dearborn
 *Delano E. A. Co. (Machinists), 50 S Clinton
 *De Ward, Peter (Machints), 1101 S Robey
 *Dick, A. B. Co. (Copying & Duplicating Machines), 161 W Jackson boul
 *Dobbins, C. E. & Co. (Axles & Springs), 172 N Halsted
 *Dorner Mfg. Co. (Car & Locomotive Axles, etc.), Monadnock blk
 *Drake Standard Machine Works (Brick Machinery & Concrete Mixers, etc.), 298 W Jackson boul
 *Dreis & Krump (O. K. Cornice Brake, etc.), 3214 S Halsted
 *Dunne, Geo. W. & Co., 691 Carroll av
 *Ecker Pressing Machine Co.
 *Eclipse Machine & Boiler Works, 1146 W 14th
 *Eddy, Geo. B. (Brass Fdrs. & Finishers), 72 W Washn
 *Eddy, R. M. Foundry Co. (Boiler Fronts, Grate Bars, Castings, etc.), 61 Indiana
 *Eldred Mfg. Co. (Electric Specialties, etc.), 419 N Clark
 *Elizabeth Street Foundry (Iron Fdry.), 5837 S Elizabeth
 *ELMES, CHAS. F. ENGINEERING Works (Hydraulic, Fire Boat & Rubber Machinery), Fulton & Morgan. (See adv. index, end of book)
 *Empire Brass Works (Brass Founders, Finishers, etc.), 127 Fulton
 *Emrath, Louis, 218 Washington
 *Enterprise Tool & Metal Works (Machinists), 141 S Clinton
 *Erb, W. B. & Co. (Machinists), 224 S Clinton

When writing to firms listed in this book please mention
HENDRICKS'
COMMERCIAL REGISTER

- *Excelsior Steel Furnace Co. (Furnaces, etc.), 38 W Monroe
- *Faunt Bros. (Brass Founders, Finishers, etc.), 13 N Jefferson
- *†Featherstone Foundry & Machine Co. (Corliss Engines, Ice Machines, Grey Iron Castings, etc.), Railway Ex.
- *Federal Mfg. Co. (Vehicle Gears, etc.), 83 Van Buren
- *Felt & Tarrant Mfg. Co. (Comptometers, etc.), 52 Illinois
- †Ferguson & Lange Foundry Co. (Iron Fdrs.), Clayborn av & Willow
- *Fisher, E. Machine Works (Woodworking Machinery), 710 Carroll av
- *Folding Sawing Machine Co., 158 Harrison
- *Foley, J. L., 69 W Jackson boul.
- *†Foley & Williams Mfg. Co. (Sewing Machines), 48 Jackson boul.
- *Force, Wm. A. & Co. (Inc.) (Dies, Stamps, etc.), 188 Monroe
- *Foote Bros.' Gear & Machine Co. (Gear Cutting, etc.), 30 S Clinton
- *Fort Dearborn Mfg. Co. (Special Machy., etc.), 63 Crossing
- †Frake, Jas. (Iron Fdry.), 459 W Kinzie
- †Francis & Nygren Foundry Co. (Semi-Steel & Iron Fdrs.), 1201 Fillmore
- †Franklin Foundry Co. (Iron Fdry.), 1155 S Paulina
- *Furness Bros.' Co. (Machinists, Pumps, etc.), 28 N Desplaines
- *Gallagher & Speck (Machinists), 295 5th av
- *Ganschow, Wm. Co. (Gears, etc.), 12 S Clinton
- *†Garden City Fan Co. (Iron Fdrs. & Blowers, Exhaust Fans, etc.), Fisher bldg. Works; Niles, Mich.
- †Garden City Foundry (Iron Founders), 103 W Monroe
- *Garvy Co. (Iron Beds), 80 Norton
- *Gibson, A. M., 32 W Quincy
- *§Goetz & Flodin Mfg. Co. (Brass Fdrs. & Finishers), 133 W Chicago av
- *†Golden Novelty Mfg. & Foundry Co. (Art Metal Work), 200 S Clinton
- *Good Mfg. Co., N Jefferson & Fulton
- *†Goss Printing Press Co. (Printing Presses), 732 S Paulina
- *§Grant, Michael F. & Co. (Brass Fdrs. & Finishers), 215 S Clinton
- †Gray Iron Foundry Co., 46 Michigan
- *†Greenlee Bros. & Co. (Woodworking Machinery, etc.), Railway Ex bldg
- †Greenlee Foundry Co. (Iron Fdrs.), 142 Bunker
- *Gregory Electric Co. (Electric Machinery), 54 S Clinton
- *†Griffin Wheel Co. (Car Wheels), 138 Jackson boul Works, Sacramento av & C. & N. W. Ry.
- *Griswold, Marius E., 8 W Washington
- *Gross, Geo. M. (Sheet Metal), 1447 State
- *Grotnes, Chas. (Machy.), 28 W Wah'n
- *Greundel, Geo. (Machinist), 18 S Canal
- *Guarantee Electric Co. (Dynamos & Motors), 153 S Clinton
- *Guillott Metal Gasket Co., 97 S Clinton
- *Gustavson, B. O. (Grilles), 863 Lincoln av
- *Gutmann Store Fixture Co., 377 Wabash
- *Haberkamp, Wm. Machine Works, 69 to 75 Wells
- *Haerst Mfg. Co. (Street Cleaning Machy.)
- †§Hall, Miller & Son (Iron & Brass Bedsteads), c Taylor & Rockwell
- *Hailer Machine Co. (Special Machinery & Hardware), 127 Fulton
- †Hallett Iron Works, 92 W Polk
- *†HALSTED, JOS. CO. (Builders' Iron), 388 W Randolph. (See adv. index, end of book)
- *Hammar, H. Mfg. Co. (Machinist), 170 E Madison
- *Hanna Engineering Works, 820 Elston av
- †Hansell-Elcock Co. (Iron Founders & Builders' Iron Works), 251 23d pl
- *Hansen, Jens (Est. of) (Shirt, Cuff & Collar Ironing Machy.), 15 S Canal
- *Hanson & Tunellus Machine Co. (Machinists), 232 S Clinton
- *Hardinge Bros. (Sensitive Drills & Watchmakers' Tools, etc.), 1036 Lincoln av
- *§Harris, Arthur & Co. (Brass Founders & Finishers for Breweries, Distillers, etc.), 44 N Curtis
- *Harvard Electric Co. (Electrical Specialties), 60 W Vanburen
- *†Hawley Down Draft Furnace Co. (Mechanical Stokers' Melting Furnaces, etc.), Superior & Townsend
- *Healy Ice Machine Co. (Ice Machines & Steam Engines), 641 30th
- *Heath, Ed. H. Machinery Co., 11 S Water
- *Heinemann, Louis, 819 Melrose
- *Heise & Brauer, 61 Union Park ct
- *Helmold, J. F. & Bro. (Machinists), A. N E c Dominick
- *Hennebohle Co. (Steam & Hydraulic Specialties), S Chicago & Erie avs
- *§Hewitt Mfg. Co. (Brass Founders & Finishers), 9 Jackson boul
- *Hicks Locomotive & Car Works (Cars, Locomotives, etc.), 277 Dearborn
- *Hiles, C. A. & Co. (Saws, Tools, etc.), 14th & Western av
- *§Hine-Watt Mfg. Co. (Brass Fdrs.), 60 Wabash av
- *§Hodgson, Jno. & Co. (Brass Fdrs. & Finishers), 1071 W 13th
- *Hoeft & Moore (Machinists), 85 5th av
- *Hoffmann, Emil R. (Special Machinery), 71 W Jackson boul
- *Holden Mfg. Co. (Automatic Presses & Special Wire & Tin Working Machy.), 153 S Jefferson
- *§Holland, Wm. (Brass Foundry & Finisher), 122 S Jefferson
- *Holiday Mfg. & Eng. Co. (Gasoline Engines), 160 Bunker
- *Holmes Bros. (Machinists), 73 W Jackson boul
- *†Holmes, Pyott & Co. (Builders' Iron Work & Foundry & Machinists), 13 N Jefferson
- *†Home Stove Works (Stoves), W 18th & S Rockwell
- *Hydraulic Engineering Works (Hydraulic Press & Pumps), 15 S Canal
- *†Illinois Machine & Foundry Co. (Iron Fdrs.), 1125 W 21st
- *†§Illinois Malleable Iron Co. (Iron & Brass Fdrs., Pipe Fittings & Plumbers' Supplies), 537 Diversey boul
- *†Illinois Sewing Machine Co. (Sewing Machines, etc.), 35 Randolph; Works, Rockford, Ill.
- *§Imperial Brass Mfg. Co. (Brass Fdrs. & Finishers), 245 S Jefferson
- *International Filter Co., 1702 Wabash av
- *†§International Harvester Co. of America (Agricultural Implements), 7 Monroe
- *International Register Co., 118 W Jackson boul
- *Jann & Shank Mfg. Co., 118 W Jackson boul
- *§Johnson & Matson (Car Brasses)
- *†Jones, W. A., Foundry & Machine Co. (Power Transmitting Machinery & Castings), 57 S Jefferson
- *Joy, Chas. H. (Slot Machines), 251 S Jefferson
- *Kaestner & Co. (Elevators, Brewers' & Maltsters', Paint Grinding & Mixing Machinery), 241 S Jefferson
- *Karas, Joseph & Co. (Electric Specialties), 90 Illinois
- *†Kellogg-Mackay-Cameron Co. (Radiators & Heating Apparatus), 12th & Michigan av
- *§Kelly, Thomas & Bros. (Water Closets & Sanitary Brass Goods), Congress & 46th av
- *Kiesler Co., 68 Pratt
- *†Kimball & Chappell Co. (Metal Bedsteads, etc.), 2834 Loomis
- *Klemm, Emil R. (Stone Jacks), 107 W Monroe
- *Klein, Mathias & Sons (Tools), 87 W Vanburen
- *Kling Bros. (Punches, Shears, Plate Rolls & Boilermakers), 287 Hawthorne
- *Klipfel Mfg. Co. (Valves, Regulators, etc.), 74 W Lake
- *Koehl, Geo. J. (Rug Machy.), 1527 Milwaukee av
- Kohler Die & Specialty Co. (Tools, Dies, Presses, Special Machy., etc.), 34 S Canal
- *Kraetzer, Gottlieb (Sewing Machines), 1007 Av M
- *Kreiter, Louis & Co. (Machinists), 48 N Clinton
- *Kroeschell Bros.' Ice Machine Co. (Ice Machines, etc.), 31 Erie
- *Lammert & Mann (Gas & Gasoline Engines, etc.), 155 S Jefferson
- *Lamson Cutter Head Co. (Woodworking Machy.), 27 S Canal
- *Lang, J. Electric Co. (Elec. Machy.), 116 N Lincoln
- *Lange, Henry G. (Glass Beveling & Coffee Roasting Machinery), 22 N May
- *Larsen, Ivert (Special Machy., Dies, etc.), 51 N Elizabeth
- *Latham Machinery Co. (Bookbinders' Wire Stitching & Perforating Machines, etc.), 199 S Canal
- *Lathey Steel Type Co. (Steel Type, etc.), 204 Illinois
- *†Latrobe Steel & Coupler Co., Old Colony bldg
- *Lau, Willby H. & Co. (Gas & Electric Fixtures), 12 Adams
- *Lemley & Schultz (Machinists), 570 Elston av
- *Lindhahl, Henry (Machinist), 28 W Washington
- *Lindquist & Petschke (Machinists), 87 W Jackson boul
- *†Link-Belt Co. (Elevating & Conveying Machy., etc.), W 39th & Stewart av. Works at Nicetown, Phila., Pa.; Indianapolis, Ind., & Chicago, Ill.
- *§Liquid Carbonic Co. (Soda Fountains), 67 N Wells
- *McAndrews, Wm. T. (Brass Fdry.), 12 N Rockwell
- *McCanna, Jno. F. Co. (Lubricators, etc.), 153 W Jackson boul
- *McCrea, Jas. & Co. (Steam Specialties & Boring Machines for Electric Wiring), 67 W Washington
- *McDonald Machine Co. (Can Making Machinery, etc.), 3949 Wentworth av
- *†McGuire-Cummings Mfg. Co. Railroad Specialties & Castings), 122 N Sangamon
- *McMorran, E. E. & Co. (Metal Specialties), 15 N Clinton
- *Machine Perfecting & Mfg. Co. (Special Machy., etc.), 147 S Clinton
- *Mahoney, P. F. (Brass Fdr.), 39 W Washington
- *Marchant, Geo. F., 47 N. Elizabeth
- *Marine Iron Works (Paddle Wheel & Marine Machy.), Clybourn & Southport avs
- *Marsh, Jas. P. & Co. (Steam Gauges, etc.), 224 Washington
- *Martenson, L., 146 E Monroe
- *Martin & Walstrom (Machinists, etc.), 2228 Indiana av
- *Massey Vise Co. (Vises, etc.), 176 S Clinton
- *Mateer, F. W. & Co. (Laundry Machy.), 7 S Jefferson
- *Mathison, A. O. (Machinists), 1231 Wabansia av
- *Metal Specialties Mfg. Co., 18 to 24 W Randolph
- *Miller Chemical Engine Co., 149 Huron
- *Mills Novelty Co. (Coin Operating Machines), 11 S Jefferson
- *Mitchell, Frank C. (Printers' Machinist), 141 S Clinton
- MONIGHAN'S MACHINE WORKS.** (Hoisting Engines, Steam Hammers, etc.), 813 Carroll av. (See adv. index, end of book)
- *Moore, Jas., 44 Michigan
- *Moore & Lorenz Co. (Flour Mill & Grain Elevator Machy.), 816-822 Fulton
- *†Morden Frog & Crossing Works (Frogs, Crossings & R. R. Castings), Rookery bldg
- *Morgan Electric Machine Co., Halsted & 48th pl
- *Morgan-Gardner Electric Co. (Electric Mining Machinery), 2642 Shields av
- *†Mudd Mfg. Co. (Iron Toys, etc.), N 56th & Armitage avs
- †Munro, Daniel (Iron Fdrs), 234 S Jefferson
- *Murray, W. B. (Gasoline Engines), 1253 Milwaukee av
- *Nagel-Collins Mfg. Co. (Machinists), 249 S Jefferson
- *National Car Coupler Co. (Car Couplers, Buffers, Steel Platforms, Centralizing Yokes, etc.), Monadnock blk. Works, Converse, Ind.
- *National Machine Works (Brewers' & Maltsters' Machy.), Sheffield & North av
- †National Malleable Castings Co., Blue Island & Western av
- *†National Stamping & Electrical Works (Electric & Special Machinery), 62 S Clinton
- *National Vending Machine Co. (Coin Machines), 32 S Canal
- *Nelson & Kreuter (Laundry Machy.), 955 N Spaulding av
- *Nelson & Le Moon (Machinists), 105 S Jefferson
- *New York Blower Co. (Blowers & Exhausters), 25th pl & Stewart av; Factory, Bucyrus, O.
- *Nicholas, T. E. & Co., 97 S Clinton
- *Nye Steam Pump & Machy. Co., 70 W Washington
- *Nye Tool & Machine Works (Mechanical & Electrical Machy.), 200 S Clinton
- *Oliver Typewriter Co. (Typewriters), 168 Wabash av.; Works, Woodstock, Ill.
- *Olson, Freeman M., 5501 W Monroe
- *Owen, E. H. & Co. (Dies, etc.), 32 S Jefferson
- *Ostrander-Seymour Co. (Printing Machy.), 143 Dearborn

*†Otis Elevator Co. (Elevators), 9 Jackson
boul
*Parker Holst & Machine Co. (Contractors'
Tools, Hoists, Cranes, Engines, etc.),
971 N Francisco av
*Parsons, Winslow R. (Sewing Machin At-
tachments, etc.), 232 S Clinton
*Partridge, Edw. O., 74 W Lake
*†Pattison, J. L. & Co. (Brass Fdrs. &
Finishers), 162 S Clinton
*Peerless Electric Co. (Dynamos & Motors),
122 S Green
*Pelouze Scale & Mfg. Co. (Scales, etc.),
118 W Jackson boul
*Perrin, Wm. R. & Co. (Packing House
Machinery, Presses, Pumps, Filters, &
Brass Fdrs.), 46th & Loomis
*Pettibone, Mulliken & Co. (R. R. Frogs,
Crossings, Switches, etc.), Marquette bldg
†Phoenix Foundry Co. (Sash Weights, etc.),
586 S Jefferson
*†Pilsen Foundry & Iron Works, 609 W
22d
*†Plamondon, A. Mfg. Co. (Power Trans-
mitting Machy., etc.), 57 S Clinton
*Piunket, Jas. E. (Drill Press, Gas Engines
& Milling Machine Vises), 35 W Wash-
ington
*Pratt, Henry Boiler & Machine Co. (Ma-
chinists & Boiler Makers), 877 S Halsted
*†Pridmore, Henry E. (Molding Machines),
918 S Rockwell
*Pringle & Brody Machinery Co. (Wood
Working Machinery, etc.), 277 S Canal
*Printers' Chase & Machine Works (Spe-
cial Machy.), 43 S Canal
*†Pullman Co. (Car Builders, etc.), Pul-
man bldg.: Works, West Pullman, Chi-
cago
†Pyott Foundry Co. (Iron Fdrs. & Bldrs.
Iron Work), 75 N Morgan
*Quadriga Mfg. Co. (Special Machy.), 18 S
Canal
*Radecke Mfg. Co. (Aluminum & Iron
Specialties), 594 W Lake
*Railroad Supply Co. (Railroad Specialties),
215 Dearborn; Works, Chicago Heights,
Ill.
*Ravenstein, Chas. A. (Grilles), 272 W 12th
*Raymond Bros.' Impact Pulverizer Co.
(Brick, Cement, Mining, Paint, Pulver-
izing, etc.), 143 Laflin
*Rebsamen & Almeroth (Brewers' Machy.),
1071 Elston av
†Reder Foundry Co. (Iron Fdrs.), Canal-
port & Sangamon
*Redington, F. B. & Co. (Special Machy.,
Gears, etc.), 107 S Sangamon
*†Reedy Foundry Co., 122 Indiana
*†**REEDY, J. W., ELEVATOR**
Mfg. Co. (Passenger & Freight Elevators
& Iron Fdrs.), 91 Illinois. (See adv. in-
dex, end of book)
*Reichel & Drews (Special Machy.), 28 W
Washington
*Reynolds-Duif Flasher Co. (Elec. Flash-
ing Machy.), 177 Adams
*Rhodes Watch Tool Co., 32 S Jefferson
*Rich, Geo. R. Mfg. Co., Ry. Exch. bldg
*Ristenbatt, Jno., 39 W Washington
*Riverside Iron Works, 9388 Ewing av
*Rohde, Chas. (Candy Vending Machines),
77 Dearborn av
†Roos, Henry Foundry Co. (Iron Fdry.),
985 Kimball av
†Root Street Foundry Co. (Grey Iron Cast-
ings), 240 Root
*Roth Bros. & Co. (Dynamos & Motors &
Electric Drives), 27 S Clinton
*Rouse, H. B. & Co. (Printers' Tools, etc.)
80 W Jackson boul
*Rowe, Jas. (Machinists), 241 S Jefferson
*†Rubel & Co. (Ranges, Heaters, etc.), 82
Lake
*§Ryan, J. J. & Co. (Brass Founders &
Finishers), 105 S Jefferson
*Saai, H. G. (Dies & Tools), 610 Wilson
*Sackett, H. B. Screen & Chute Co. (Coal
Handling Machy.), 4220 State
*Sandberg, Adolph L. (Sand Forging, etc.),
173 S Clinton
*Schaefer Bros.' Co. (Electrical Machy.),
14 Julius
*Schindler, Andrew J. (Machinery), 441 W
21st
*Schultz, Jno. (Machinist), 103 S Canal
*Schureman, J. L. Co. (Elec. Specialties),
80 W Jackson boul
*Scott Valve Co. (Valves, Pumps, etc.),
231 Randolph
*†Seybold Machine Co. of Dayton, Ohio
(Bookbinding Machinery), 312 Dearborn,
Chicago
*Seyl, Anthony E. (Watch Tools), 675
Grand av
†Sheffield Foundry Co. (Iron Fdrs.), Cly-
bourn av & Herndon

*†Skillin & Richards Mfg. Co. (Grain Ele-
vator Machinery), 127 Fulton
*Sinclair Laundry Machinery Co., 40 N
Clinton
*Simmons Mfg. Co. (Iron Beds, etc.), 192
Michigan av
*Shniedewend, Paul & Co. (Photo Engrav-
ers' Machy.), 118 W Jackson boul
*§Smeeth's Copper & Bronze Co., 22d &
Western av
*†**SMITH, F. P., WIRE & IRON**
Works (Builders' Iron Work & Iron &
Bronze Fdrs.), 100 Lake. (See av. in-
dex, end of book)
*Smith & Phillips Mfg. Co. (Woodworking
Machy.), 269 S Desplaines. Works, La
Grange, Ill.
†Smith, Chas. Co. (Furnaces, etc.), 101
Lake
*Smith, F. H. Mfg. Co. (Harness Machy.,
etc.), 53 St. Johns ct
*Smurr & Kamen (Wire Crimping, Cut-
ting & Counting Combined Machines,
etc.), 97 S Clinton
†South Halsted Street Iron Works (Fdrs.
& Bldrs.' Iron Work), 2611 S Halsted
*Specialty Machinery Co., 140 W Lake
*Spies, Philip P. & Co. (Electric Special-
ties), 87 Vanburen
*†Sprague Canning Machinery Co. (Canning
Machy.), 42 River; Works, Hoopston,
Ill.
†Standard Architectural Iron Works, 627
Bloomingsdale av
*§Star Brass Works (Brass Founders,
Whitewash Machines, Finishers, etc.),
12 S Jefferson
*Staver Carriage Co. (Feed Mills, Car-
riages, etc.), 76th & Wallace
*Stearnes Steel Range Co. (Steel Ranges),
188 Lake
Steel Ball Co. (Steel Balls, etc.), 840 Austin
*§Steiz, Jno. L. (Brass Fdrs. & Finishers),
3753 S Halsted
*†Stier, Herman Mfg. Co. (Brass Founders
Finishers), 560 N Halsted
Story, H. T. (Hack Saw Machines, etc.),
30 W Randolph
*§Street & Kent Mfg. Co. (Brass Fdrs.,
Plumbers' Brass Specialties), 43 Fulton
*Strohm, W. A. & Bro. (Machinists), 588
W Lake
*Strube Machine Works (Machinists), 455
25th
*†Sullivan Machinery Co., Railway Exch.
bldg
*Superior Machine Works (Machinists), 196
W 12th
*Superior Machine & Boiler Works (Ma-
chinists), 133 W Superior
Surerus & Greenhill (Milling Cutters, etc.),
109 Racine av
*†Tarrant Foundry Co. (Iron Fdrs., Light
& Heavy Gray Iron Castings, etc.), 46
Indiana
*Tarrant, Robt. (Marine Engines, etc.), 56
Illinois
*†Temple Pump Co. (Engines, Pumps &
Windmills), 28 W 15th
*Toles, W. C. Co. (Vises, etc.), 2479 N
42d ct
*Tolman, Judson A. Co. (Stoves & Ranges),
66 Lake
Templeton, Kenly & Co. (Track Jacks,
etc.), 611 S Morgan
*Tevander, O. K. & Co. (Dies, Tools, etc.),
173 S Canal
*§Thomas Bros.' Mfg. Co. (Brass Founders
& Hardware Specialties, Finishers, etc.),
Fillmore & Rockwell
*Thomas Elevator Co. (Hod Hoisting
Machy., etc.), 133 S Hoyne
*Thomas & Smith (Hot Air Pumping En-
gines), 17 S Carpenter
*Tietjen, Falk & Co. (Gas & Electric Fix-
tures), 79 W Van Buren
*§Trenkhorst, Frank (Brass Fdrs. & Fin-
ishers), 67 Larrabee
§Turner Brass Works (Brass Specialties &
Castings), 66 Michigan
*Union Drop Forge Co. (Drop Forging &
Machinists), 66 E Ohio
*Union Elevator & Machine Co. (Elevators
& Machinery), 28 Market
***UNION FOUNDRY WORKS (Iron**
Founders & Builders' Iron Work), First
National Bank bldg
*Union Special Machine Co. (Sewing Ma-
chines), 75 E Kinzie
†§Vanderpoel Co. (Iron Fdrs.) 497 W 22d
Vaughn & Bushnell Mfg. Co. (Hardware
Mfrs.), Chicago, Ill.
*†§Vierling, McDowell & Co. (Founders &
Bldrs.' Iron Work), 23d & Stewart av
*†§Vulcan Iron Works (Fdrs. & Machinists,
Dredging & Pile Driving Machinery),
Fulton & Irving av

*Wahlquist & Larson (Grilles), 21 N. Jef-
ferson
*Waring Mfg. Co. (Coin Operating Ma-
chines), 155 W Jackson
*†**Webster Mfg. Co. (Elevating,**
Conveying Power & Transmitting Ma-
chinery), 1075 W 15th
*Walstead, Gustav A., 18 W Randolph
*Weber Bros.' Metal Works, 39 W Ran-
dolph
*†§Weir & Craig Mfg. Co. (Steam Special-
ties, etc.), 2439 Wallace
*†**WELLER MFG. CO. (Elevating,**
& Conveying, Grain Elevator, Power
Transmitting Machinery, etc.), 124 E
North av. (See adv. index, end of book)
*Wells, F. C. (Est. of) (Steam Pumps),
116 S Clinton
*Westerlin & Campbell Co. (Refrigerating
Machy.), 53 S Clinton
*Westerman Bakers' Machy. Co. (Bakers'
Machy., etc.), 64 Fulton
§Western Brass Mfg. Works (Brass &
Bronze Hardware, Plumbers' Brass Goods
& Brass & Composition Castings), W 21st
pl c S Rockwell
*†§Western Electric Co. (Electric Machin-
ery & Specialties), 259 S Clinton
†Western Foundry Co. (Iron Fdrs., Soft
Gray Iron Castings, 3632 S Albany av
*†Western Steel Car & Foundry Co. (Steel
Cars & Malleable Iron Founders), Old
Colony bldg
*Whitcomb, Geo. D. Co. (Mining Machy.,
etc.), 86 Ohio
*White Bros. (Machinists), 1347 Fulton
†§White Brass Castings Co. (Finished
Hand Metal Castings), 227 S. Green
*Whiting, Geo. Co. (Punching & Shearing
Machy.), 156 W North av
*†Whitman & Barnes Mfg. Co. (Agl.
Implts., Twist Drills, Wrenches, etc.),
West Pullman
*Willard Sons & Bell Co. (Steam Forging
& Machinists), 98th & Erie av
†§Wilson Manufacturing Co., 96 W Lake
*†**WINSLOW BROS. CO. (Build-**
ers' Iron & Bronze Work, Iron, Brass &
Bronze Castings). (See adv. index, end
of book)
*Wishart, Jno., Machine Works (Special
Machinery, etc.), 65 S Canal
*Wold, Torris & Co. (Canners' & Special
& Experimental Machy. & Models), 68
N Jefferson
*†Wolf, Fred W. Co. (Ice Making Machy.,
etc.), 139 Rees
*†§Wolff, L. Mfg. Co. (Iron & Brass Fdrs.,
Plumbers' Supplies, Cast Iron Pipe &
Plumbers' Brass Goods, etc.), 93 W Lake
*Wood, Morris & Sons (Moulding & Carv-
ing Machines), 38 S Canal
*Woodlawn Repair Co., 658 E 63d
*Wrigley, Thos. & Co. (Printing Presses
& Special Machy.), 302 Dearborn
*Zoeller, Wm. (Machinist), 11 S Canal
CHICAGO H'G'TS—*†**AMERICAN BRAKE**
Shoe & Foundry Co. (Brake Shoes, Steel
Castings, etc.). Main Office: Mahwah,
N. J. (See adv. index, end of book)
*†American Foundry & Machine Co. (Sugar
Ayer, Fred H. Mfg. Co. (Electrical Ap-
pliances, etc.)
*†Bonnet-Nance Stove Co. (Stoves, Ranges,
etc.)
*†Canedy, Otto Mfg. Co. (Anvils & Vises,
Blacksmiths' Forges, Blowers & Drills,
etc.)
*†Canedy, A. E. (Pumps, Electrical Spe-
cialties, etc.)
*Funk Bros. Mfg. Co. (Miners' Tools &
Supplies, etc.)
†Kennicott Water Softener Co. (Water
Softeners, etc.)
†King & Andrews Co. (Steel Castings &
Iron Founders, etc.)
*Phoenix Fire Extinguisher Co.
*†Quaker Mfg. Co. (Hot Air Furnaces &
Heaters, etc.)
*†Quincy-Manchester-Sargent Co. (Milling
Machines, Cold Saws, etc.)
*Wood, Smith & Co. (Carriage & Wagon
Axles, etc.)
CHICAGO RIDGE—*§White Mfg. Co. (Slot &
Vending Machines, Iron & Brass Cast-
ings, etc.)
CHILLICOTHE—*§Slinn & Davis

**When writing to firms listed
in this book please mention
HENDRICKS'
COMMERCIAL REGISTER**

CHRISMAN—*Bonner, C. E. Mfg. Co. (Pipe Wrenches, etc.)
 CISSNA PARK—†Gerald, Michael
 CLAYTON—*†Blrket, A. S.
 COBDEN—*Ede, Geo. A. (Machinist)
 COLLINSVILLE—*†Bernhardt, Niehaus & Co. (Inc.)
 †Blum Mfg. Co. (Stock Bells, etc.)
 CONCORD—*Rayborn, J. J.
 COULTERSVILLE—†Bouas, E.
 DANVILLE—*†Danville Foundry & Machine Co.
 *†Fairweight Standard Scale Co.
 *Holmes, Robert & Bros. (Inc.)
 DECATUR—*Beall Improvement Co. (Flour Mill Machinery)
 *Bold, Wm. M. (Machinist)
 *Brett, Wm. P. (Machinist)
 †Central Malleable Iron Co. (Malleable Iron Castings)
 *Chambers - Bering - Quinian Co. (Agr. Impls.)
 *†Faries Mfg. Co. (Special Machy. & Hdw. Specialties, etc.)
 Hartley, C. J. Co. (Machinists)
 *†Leader Iron Works (Clay Working Machinery)
 *†Mueller, H. Mfg. Co. (Drilling & Tapping Machines, Brass Fdrs. & Plumbing Gds)
 *†Oakes, Wm. L. (Engines, Gray Iron Castings, etc.)
 *†Tait, F. B. Mfg. Co. (Corn Planting Machy., etc.)
 *†Union Iron Works (Flour Mill Machy., Corn Shellers, etc.)
 *Williams Mfg. Co. (Corn Planters, etc.)
 DE KALB—*De Kalb Fence Co. (Wire Stretchers, etc.)
 *†Halsh Wire & Implement Co. (Barb Wire & Agricultural Implements)
 *†Standard Foundry & Mfg. Co.
 *†Union Fence Co. (Wire Stretchers, etc.)
 *†Smith Mfg. Co. (Implts., Gasoline Engines, etc.)
 DIXON—*Coe, Henry M.
 *Clipper Lawn Mower Co. (Gasoline Engines, Lawn Mowers, etc.)
 *†Grand Detour Plow Co. (Agr. Impls., Plows, etc.)
 *†Rock River Mfg. Co.
 DOWNERS GROVE—*Dicke Tool Co. (Line-men's Construction Tools, etc.)
 DU QUOIN—*†Blakeslee Mfg. Co. (Steam Pumps, etc.)
 DWIGHT—*†Spencer, J. A. (Hay Presses, etc.)
 EAST MOLINE—*†American Harvester Co.
 *Borg & Beck (Wood Working Machinery)
 *Decre-Clark Motor Co. (Motor Cars)
 *Moline Automobile Co. (Automobiles, Motors, etc.)
 *Moline Scale Factory (Platform & Wagon Scales, etc.)
 *†Root & Van Der Voort Engineering Co. (Gas, Hoisting, Stationary Engines, etc.)
 †Union Malleable Iron Co.
 *†Walsh Brake Shoe & Foundry Co. (Brake Shoes, etc.)
 EAST ST. LOUIS—†American Steel Foundries Co. (See N. Y. City)
 *East St. Louis Locomotive & Machine Shop Co. (Locomotives & Steam Shovels, etc., Rebuilt)
 *†Ellicott Frog & Switch Co. (Frog, Switches, Railroad Specialties, etc.)
 *†Excelsior Tool & Machine Co.
 *†MacGowan & Finnigan Fdy. & Machine Co. (See St. Louis)
 *†Missouri Bridge & Iron Co.
 †Missouri Malleable Iron Co.
 *†National Iron Works (Iron Fdrs.)
 *†Pioneer Machine Co.
 †Railway Steel Spring Co.
 *St. Louis Steam Forge & Iron Works
 *†Standard Railway Equipment Co.
 *†Symonds Mfg. Co. (Registers)
 †Western Forge Co. (See St. Louis)
 EDWARDSVILLE—*†Bignall & Keeler Mfg. Co. (Pipe Cutting, Threading & Shaping)
 *Desmond, M. Mfg. Co. (Machinery)
 *Dunstedler, J. (Machinist)
 *†Edwardsville Brass Co. (Brass Fdrs. & Plumbers' Brass Goods)
 EFFINGHAM—*Bushor, D. & Son
 ELDORADO—*†Glasscock & Clark (Fdrs. & Machinists)
 ELGIN—*†Elgin Mfg. Co. (Power Pumps, Condensed Milk Machinery & Castings)
 *Elgin Metal Novelty Co.
 *Elgin National Watch Co. (Watch & Watch Case Mfrs.)
 *Elgin Silverplate Co. (Casket Trimmings, etc.)
 *Elgin Tool Works (Inc.) (Machy., Tools, etc.)
 *Elgin Wind Power & Pump Co. (Wind-mills & Pumps)
 *Mosely Lathe Co. (Watchmakers' Machine Tools)
 *†Moody Bros.

†Western Casket Hardware Co. (Casket Hdw., etc.)
 †Woodruff & Edwards Co. (Fdrs.)
 EOALA—*†Larimer Mfg. Co. (Hdw. Specialties, etc.)
 EVANSTON—*†Comstock, A. S. (Air Pumps, Gas Forges, etc.)
 **Mark Mfg. Co. (Artesian & Tubular Well Specialties, etc.)
 FAIRDALE—*Fisher & Upstone.
 FAIRFIELD—*Heldinger Machine Works (Machinists)
 FARMER CITY—*McBride, R. S. & Son
 FARMINGTON—*Morse, E. E. (Machinist)
 FILLMORE—*Whitten & Ludewick
 FRANKLIN PARK—†Forster, Waterbury & Co. (Malleable Iron Fdrs.)
 FREEPORT—*Acme Mfg. Co. (Hardware Specialties)
 *†Arcade Mfg. Co. (Light Gray Iron Castings & Hardware Specialties)
 *†Freeport Brass Foundry
 *†Freeport Gas Machine Co. (Gas Engines, etc.)
 *Hoefler Mfg. Co. (Machine Tools, etc.)
 †Lamb & Co. (Flour & Feed Mills)
 *Johnson Bros. (Wrenches, etc.)
 *Kochsmeier, H. P. (Machinists)
 *Ritchie & Lukemann
 *Schofield & Co. (Potato Diggers, etc.)
 *†Severance, Wallace Machy. Co. (Gas Machines, etc.)
 *†Stover Engine Works (Inc.) (Gasoline Engines, etc.)
 *†Stover Mfg. Co. (Hdw. Specialties, Wind-mills, Pumps & Light Gray Iron Castings, etc.)
 *†Woodmanse Mfg. Co. (Pumping & Power Steel & Wooden Windmills & Iron & Brass Fdrs.)
 FULTON—†Mississippi Valley Stove Works (Stoves, etc.)
 GALENA—*Cleveland & Pitcher (Ore Separators, etc.)
 *†Galena Iron Works Co. (Iron Founders & Mining Machinery, etc.)
 *†Westwick, Jno., & Son (Machinists & Fdrs.)
 GALESBURG—*Chicago Writing Machine Co. (Typewriters, Adjustaphones, etc.)
 *†Colton, G. D. & Co. (Agr. Impls., Feed Mills, Hay Presses, etc.)
 *†Frost Mfg. Co. (Steam Engines, Boilers, Dry Pans, etc.)
 *†Galesburg Coulter Disc Co. (Agr. Impls.)
 *†Galesburg Machine Works (Machinists)
 *May Bros. (Windmills, etc.)
 *†Walton-Van Huffel Mfg. Co. (Foundry Machy., etc.)
 *†Wenzelmann Mfg. Co. (Farm Elevators & Wagon Dumps)
 *†Western Tool Works (Automobile Builders, Circular Sawing Machines, etc.)
 GALVA—*†Collinson, Frank J. (Fdry. & Machinists)
 *†Hayes Pump & Planter Co. (Pumps, Cultivators, Planters, etc.)
 *†Muiford Heater Co. (Steam Heaters & Corn Planters)
 *†Wlstrand Mfg. Co. (Pumps, Corn Planters, etc.)
 GENOA—*Eureka Electric Co. (Telephones, etc.)
 GENEVA—*†Burgess-Norton Mfg. Co. (Hdw. Specialties, etc.)
 *†Geneva Foundry & Machine Co.
 †Howell, W. H. Co. (Sad Irons, etc.)
 GIBSON—*†Gibson Iron Works (Radiators & Iron Fdrs.)
 *Roth, Yoder & Co. (Heavy Machy., etc.)
 GRAFTON—Rippley Hardware Co. (Steam Feed Cookers, Sprayers & Metal Boats)
 GRANITE CITY—*American Pneumatic Railway Ditcher & Grader Co. (R. R. Ditches & Graders)
 *†American Steel Foundries (Steel Cars, Trucks & Castings). (See Chicago, Ill.)
 †Commonwealth Steel Co. (Steel Castings, Car Tracks, etc.) (See St. Louis, Mo.)
 *Hoyt Metal Co.
 *†Illinois Foundry & Engineering Co.
 *†National Enameling & Stamping Co.
 GREENVILLE—*Baits, Benj.
 *Kruger, P. J. (Machinist)
 HARVARD—*†Hunt-Helm-Ferris & Co. (Haying Tools, etc.)
 *Stafford, M. A.
 *Stevenson, C. M. & Son (Land Rollers)
 HARVEY—American Stove Co. (of St. Louis).
 Stoves, Steel Ranges, etc.)
 *†Austin Mfg. Co. (Road Making & Well Drilling)
 *Billss & Laughlin (Key Seating & Shafting)
 *†Buda Foundry & Mfg. Co. (R. R. Specialties)
 *†Calumet Engineering & Machinery Co.
 †Enterprise Foundry

†Koch Bros.
 †Peterson Mfg. Co. (Conduits)
 *Strang Engine Co. (Gas, Gasoline & Kerosene Engines)
 *†WHITING FOUNDRY EQUIPMENT Co. (Fdry. Equipments, Electric Cranes, etc.) (See adv. index & branch offices, end of book)
 HAVANA—*Crescent Forge & Shovel Co. (Shovels, etc.)
 *†Havana Mfg. Co. (Gas Engines, etc.)
 *†Havana Metal Wheel Co. (Metal Wheels, Plow Shares, Cultivators, Shovels, etc.)
 *†McFadden Mfg. Co. (Gasoline Engines, etc.)
 *Schmidt & Harsman
 HEGEWISCH—*†Western Steel Car & Fdry. Co. (See Chicago)
 HENRY—*Doelzer, A. & Co.
 HIGHLAND—*Leutwiler Bros. (Machinists)
 HILLVIEW—*Wetzel & Turner
 HINCKLEY—*Davis, L. E.
 HINDSBORO—*Eversole Bros.
 HOOPESTON—*Rusk Evener Co. (Agr. Implants)
 *†Sprague Canning Machinery Co. (See Chicago)
 HOOPPOLE—*Goembel, H. S.
 JACKSONVILLE—†Bambook, A. W.
 *Illinois Steel Bridge Co.
 *†C. P. & St. Louis Railway Shops
 *Kellogg Bros. & Co. (Machinists)
 JERSEYVILLE—*West & Hall
 JOLIET—*Adams Steel & Wire Works (Archl. Iron Work, etc.)
 *†Bates Machine Co. (Corliss Engines & Wire Mill Machy., etc.)
 *†Buckeye Engine & Foundry Co. (Gas & Gasoline Engines, etc.)
 *Champion Machinery Co.
 *Ditto, G. M. (Agr. Implements)
 *Felker Bros. (Bakers' Machy., etc.)
 *Hardy, Wallace L. (Machinist)
 †Holsworth, Edwin A.
 *†Humphrey & Sons (Agr. Impls., Iron Fdrs. & Machinists, etc.)
 *†Illinois Steel Co. (See Chicago)
 †Joliet Bridge & Iron Co.
 *†Joliet Mfg. Co. (Corn Shellers, etc.)
 *†Joliet Stove Works (Stoves, Mail Boxes, etc.)
 *Monahan Bros. (Inc.)
 *†Moore Bros. Co. (Stoves, etc.)
 †Pratt, Wm. E. Mfg. Co. (Hardware Specialties)
 *Taylor Husker & Shredder Co. (Huskies & Shredders, etc.)
 *Van Fleet Mfg. Co.
 KANKAKEE—*†Beaumont, Richard (Valves, Hydrants, etc.)
 †Kankakee Foundry Co.
 †Pratt, Edwin
 *Soper, Geo. E.
 *†Tait Mfg. Co. (Machy., etc.)
 KEWANEE—*Demmler, Wm. & Bro. (Coal & Sand Handling Machinery)
 *†Kewanee Boiler Co. (Heating Apparatus)
 *Kewanee Valve & Metal Works
 *†Peters Pump Co. (Agr. Impls., Pumps, etc.)
 *†Western Tube Co. (Cast, Malleable Iron & Brass Fittings, Iron & Brass Cocks, Valves, etc.)
 LADD—†Erickson, A. J.
 LA GRANGE—*†Smith & Phillips Mfg. Co. (Woodworking Machy.)
 LA SALLE—*†La Salle Machine & Tool Co.
 *Western Clock Mfg. Co. (Clock Mfrs., etc.)
 LEBANON—*Six, Geo.
 LEROY—*Jones, Chas. D. (Machinist)
 LIBERTYVILLE—*Laycock, Wm., Co. (Engines, etc.)
 LINCOLN—*Cherry & Kates
 *Cottingham, Wm. S.
 †Hes, Edw. (Foundry)
 *Mohn, H. & Son (Machinists)
 *Moos, Jno., Sr.
 LITCHFIELD—*†Litchfield Fdry. & Machine Co. (Machinery & Gray Iron Castings)
 Nicholson Machine Co.
 LOCKPORT—*†Barrows Lock Co. (Bldrs. Hardware & Specialties)
 McHENRY—*Engeln, M. & Son
 MACOMB—*†Fisher, Arch. (Fdry. & Machinist)
 MADISON—*†Hager Steel & Iron Co. (ist)
 MANHATTAN—Gookly, H. L.
 MARENGO—*†Collins & Burgie Co. (Stoves)
 *†Marengo Foundry & Machine Co. (Gas Engines, etc.)
 MARION—*†Crain, Benj. (Machinist & Fdry.)
 MAROA—*†Maroa Mfg. Co. (Agr. Impls., Cultivators, Car Loaders, etc.)
 MARSEILLES—*Goodell, J. H. & Son
 *†Marseilles Mfg. Co. (Agr. Impls., etc.)
 *Marseilles Harrow Mfg. Co. (Harrow, etc.)
 MARTINSVILLE—*Rowe, M. A. (Machinist)
 MASON CITY—*Heckman, A. L. (Machinist)
 MATTOON—†Charleston Foundry Co. (Stoves)
 MATTOON—†Charleston Foundry Co.
 *†Chuse Engine & Mfg. Co. (Engines, Fdrs., Machinists, etc.)
 *Thatcher, Jas. A. & Sons

MELROSE PARK—*†Featherstone Fdry. & Machine Co. (See Chicago)
 *†Latrobe Steel & Coupler Co. (See Chicago & Philadelphia, Pa.)
MENDOTA—*Black Bros. Machinery Co.
 †Mendota Mfg. & Transfer Co.
 *†Tower, J. D. & Sons Co. (Agrl. Impls.)
METROPOLIS CITY—*Beeson, J.
MOLINE—*†Barnard & Leas Mfg. Co. (Flour Mill & Grain Elevator Machy.)
 *†Cooper, H. W. (Saddlery, Hdw., etc.)
 *†Deere & Co. (Inc.) (Agrl. Impls.)
 *†Deere & Mansur Co. (Agrl. Implt. Mfrs.)
 *Lockhart, A. F.
 §Moline Brass Works
 *†Moline Elevator Co. (Elevators, etc.)
 †Moline Foundry Co. (Grey Iron Castings)
 *†Moline Plow Co. (Agrl. Impls., Plows, etc.)
 *†Moline Pump Co. (Pumps, Gas Engines, etc.)
 *Moline Tool Co. (Gang Drills & Speed Lathes)
 *Moline Votting Machine Co.
 *Ostlund, Albert J.
 §Plow City Brass Works
 §Schmidt, Henry (Brass Fdry & Finishers)
 *§Schmidt, Joseph (Brass Fdry.)
 *Sechler, D. M. Carriage Co. (Carriages & Agrl. Impls.)
 *†Williams, White & Co. (Inc.) (Heavy Machy.)
MONMOUTH—*†McIntosh Fdry. & Machine Co.
 *Milne Mfg. Co. (Stump Pullers, etc.)
 *†Monmouth Plow Co. (Plows, Cultivators, Harrows)
 *†Pattee Plow Co. (Agrl. Impls., Plows, etc.)
MORRIS—*†Coleman Hardware Co. (Door Hangers & Bldrs., Hdw., etc.)
 *Ferguson, C. D.
 *†Nickel Mfg. Co. (Hdw. Specialties & Gray Iron Castings)
MOUNT CARMEL—*†Mt. Carmel Fdry. & Machine Works (Inc.)
MOUNT CARROLL—*Kneale & Kessler
MOUNT VERNON—*Hobbs, J. H.
 *Mount Vernon Agricultural Works
 *†Mount Vernon Car Mfg. Co. (Cars, Car Wheels, Castings, etc.)
MURPHYSBORO—*Fisher Slack Adjuster & R. R. Equipment Co.
 *†Southern Illinois Machine & Fdry. Co. (Mlne Ventilating Fans, etc.)
NAPERVILLE—*Goetsch & Son (Plows, etc.)
NEW ATHENS—*†Auto Stove Works (Stoves, etc.)
NOKOMIS—*Kramer & Umpleby
NORTH AURORA—†Sperry, D. R. & Co. (Fdry, etc.)
NORTH CHICAGO—§Chicago Hardware Co.
 *†§Chicago Hardware Fdry. Co. (Light Gray Iron, Brass & Aluminum Castings, etc., Gas Engines, etc.)
 *North Chicago Machine Co. (Gas Engines, etc.)
OAK PARK—*Biddle-Murray Mfg. Co.
O'FALLON—*†Eureka Steel Range Co.
OLNEY—*Remy, N. T. (Machinist)
OREGON—*American Lock Nut Co. (Lock-Nuts, etc.)
 *Barden, J. A.
 *†Oregon Fdry. & Mach. Co. (Molding Machines)
OTTAWA—*American Hdw. Mfg. Co. (Hdw. Specialties, etc.)
 *§Barr, B. P. & Co. (Automobiles, Gasoline Engines, etc.)
 *King & Hamilton Co. (Agrl. Impls., etc.)
 *†Knowles, W. H. (Fdry. & Machinists)
 *†Porter, J. E. Co. (Agrl. Impls., Pumps, etc.)
PANA—*Hybarger, E. M. (Novelties. Hdw. Specialties, etc.)
PARIS—†McGuire-Cummings Mfg. Co. (Car & Railway Supplies, etc.)
 *Canton Tool Co.
 †Reese, F. W. (Foundry)
PEKIN—*§Duesdieker Fdry. & Mfg. Co.
 *†Pekin Engine & Machine Co.
 *†Pekin Hdw. Co. (Hdw. & Farm Machy.)
 *Smith, T. & H. Co. (Inc.) (Heavy Wagons & Impls., etc.)
PEORIA—*†Acme Harvester Co. (Agrl. Impls.) S Bartonville
 *Acme Railway Signal & Mfg. Co., E Peoria
 *Aremac Mfg. Co. (Machinists, etc.)
 *Armstrong, Jas. C. (Flour Mill Machy.)
 *†Avery Mfg. Co. (Agrl. Impls., Engines, Cultivators, Stackers, etc.)
 *§Bartholomew Co. (Coffee & Peanut Roasting Machines & Automobiles)
 *§Brass Foundry & Heating Co. (Brass Fdrs. & Machinists)
 *†Cody, Joseph & Sons (Iron Fdrs., Bldrs., etc.)

*†Colean Mfg. Co. (Threshing Machy., Traction Engines, etc.)
 *†Culter & Proctor Stove Co. (Stoves, etc.)
 *Engel, J. A. & Co. (Agrl. Impls.)
 †Excelsior Foundry Co. (Gray Iron Castings)
 *Finkelstein, H. V. Machinery & Iron Co.
 †Globe Foundry Co. (Iron Foundry)
 *Hagerty Bros.
 *Hart Grain Weigher Co.
 *Herschel, R. Mfg Co (Agrl Impls)
 *Illinois Electrical Mfg. Co.
 *†Kingman Plow Co. (Agrl Impls, Plows, Etc.)
 *†§Kinsey & Mahler Co. (Steam Specialties & Brass Fdrs.)
 *†Lucas, Adam & Sons (Iron Fdrs., Builders' Iron Work and Machinists)
 *McAleenan Boller Co (Boiler Makers' Machinery)
 *Marcus, Jas. V. (Machinist, Blacksmith, Forging, etc.)
 *Meyer Furnace Co. (Hot Air Furnaces & Fdrs, Etc.)
 Nichols & Shepard Co. (See Battle Creek, Mich.)
 †O'Rourke & Co. (Iron Founders)
 *Oltmanns & Schmidt (Ornamental Iron Work, Blacksmith, Machinist, etc.)
 *Peoria Coal Drill Works
 †Peoria Foundry Co (Iron Fdrs, Bldrs' Castings, etc.)
 *Schneider, Jno & Co (Machinists)
 *Smith, E. M. & Co.
 *Struthers, R. F. (Lightning Rods, etc.)
 *Tichenor, F. C. (Tools, etc.)
 *Turnbull, W.
 *Wantling's Favorite Coal Drill Co.
 *†Western Stove Works (Furnaces, Stoves & Ranges)
 *Whittemore, C. & Son
 *Wright Machine Co (Threshing Machines, Saw Mills, Etc.)
PERU—*†Brunner, Chas. (Gas Engines, Scales & Castings)
 *†Peru Plow & Wheel Co (Agrl Impls, Plows, Etc.)
PINCKNEYVILLE—*Eaton Plow Works (V. A. Stookey & Son, Props. (Plow Mfrs. etc.)
PLANO—*Independent Harvester Co. (Farm Implements)
 *†Sears, A. H. (Agrl Impls, Etc.)
PONTIAC—*†Smith, K. Fdry. & Machine Works
PHOPHETSTOWN—*Lancaster, Charles H.
QUINCY—*Barmier, B. (Machinist)
 *†Berghofer & Ohnemus (Stoves & Ranges, etc.)
 *Bickhaus, A. C. (Files)
 †§Bush, Clement (Iron & Brass Founders)
 *†Central Iron Works (Gas & Gasoline Engines, Castings, etc.)
 *Chadwick & Son
 *†Channon-Emery Stove Co. (Stoves, etc.)
 *†Collins Plow Co. (Agricultural Impls.)
 *†Comstock-Castle Stove Co. (Stoves & Ranges)
 *†ELECTRIC WHEEL CO. (Metal Wheels, Cars, Carts, etc.). (See adv. index, end of book)
 *Empire Mfg. Co. (Metal Wheels)
 *Empire Roller Fifth Wheel Works (Fifth Wheels)
 *Ertel, Geo. Co. (Hay Presses, etc.)
 *†Excelsior Stove & Mfg. Co. (Stoves & Ranges)
 *†GARDNER GOVERNOR CO. (Air Compressors, Pumps, Governors, etc.). (See adv. index, end of book)
 *†Gem City Stove Mfg. Co. (Stoves, Heaters & Furnaces)
 *Hollister-Whitney Co. (Engines, etc.)
 *Kurz, J. & W. (Engines, etc.)
 †Lahan Stove & Mfg. Co. (Stoves, etc.)
 *†LITTLE, J. R., METAL WHEEL CO. (Steel Wheels for all purposes). (See adv. index, end of book)
 *Massie, S. B. & Son (Machinists)
 *§Modern Iron Works (Plumbers' Cast Iron Specialties, Pumps, etc.)
 *Quincy Corn Planter Co. (Agrl. Impls., etc.)
 *Quincy Elevator Gate Co. (Elevator Gates, etc.)
 *†Quincy Enameling & Foundry Co.
 *†Quincy Engine Works (Steam Engines, Electric Pumps, Heavy Machinery & Special Castings)
 *†Quincy Foundry & Novelty Co. (Stoves, etc.)
 *†Quincy Stove Mfg. Co. (Stoves)
 *Reese, W. J. Brass Fdry.
 *†Reliable Foundry & Machine Co. (Mach., Castings, etc.)
 *†Sharpe Machine Co. (Presses, Dies, Tools, etc.)
 *†Sheridan Stove Mfg. Co. (Stoves)
 *Stahl, Wm. Sprayer Co. (Metal Wheels, etc.)

*†Underwood Typewriter Co. (Typewriters)
 *§Van Doorn Co. (Brass Castings & Railings, etc.)
 *†White, Thos. Stove Co. (Stoves)
 *Wiebmer-Baeker Machine Co. (Engines, etc.)
 *†Wurst, C. H. Co. (Stoves & Ranges, etc.)
ROBINSON—*Locke Bros. Mfg. Co.
 *†Reese, A. H.
ROCHELLE—*†Billmire Bridge & Iron Works Co.
ROCK FALLS—*Eureka Co. (Working Machines)
 *Ulrich, F. W. (Agrl. Impls.)
ROCKFORD—†American Foundry Co. (Iron Fdrs.)
 *Andrews Wire & Iron Works
 *Automatic Lock Nut Co. (Lock-Nuts)
 *†Barnes, B. F. Co. (Drills, Lathes, etc.)
 *†Barnes, W. F. & Jno. Co. (Mach. Tools & Woodworking Mach'y)
 *Burson Mfg. Co. (Knitting Machines)
 *Dickenson, H. G. (Jobbing Machinist)
 *§Dobson Mfg. Co. (Creamery Supplies & Brass Castings)
 Eclipse Gas Stove Co.
 *†Emerson Mfg. Co. (Agrl. Impls., Mowers, Plows, Cultivators, etc.)
 *Forest City Blt & Tool Co
 *†Greenlee Bros. & Co. (See Chicago)
 †Griffith & Foster
 *†Illinois Sewing Machine Co. (See Chicago)
 *Ingersoll Milling Machine Co (Mach Tools)
 *†Love, M. A. Mfg Co (Pumps, Fdrs & Machinists)
 *Marsh, H. C. (Mitre Machines, Etc.)
 *Mechanics Machine Co. (Machine Tools)
 †National Lock Co. (Locks, etc.)
 *Redin, Eckstrom & Co.
 *Redin, Jno E. (Light Mach'y & Tools)
 *Rockford Brass Works
 *†Rockford Engine Works (Inc.) (Gasoline Engines, etc.)
 *†Rockford Machine Tool Co. (Machine Tools, etc.)
 †Rockford Malleable Iron Works (Inc.)
 *†Rockford Mfg Co (Agrl Impls, Plows, Harrows, Etc.)
 *Rockford Tool Co.
 *Rockford Watch Co. (Watches, etc.)
 *†Rockford Well Drill Co. (Well Drilling Mach'y)
 *Savage & Love Co. (Gas & Gasoline Engines, etc.)
 *Smith Improved Lock Nut Co. (Lock Nuts, etc.)
 *Spengler Bros. (Machinists)
 *†Trahern Pump Co (Pump Mfrs, Etc.)
 *†Union Foundry & Machine Co. (Gray Iron Castings, etc.)
 *†Ward Pump Co (Pumps, Hydraulic Rams & Castings, Etc.)
 *Woodward Governor Co (Water Wheel Governors, Etc.)
ROCK ISLAND—*Adams, Otto (Tools, Dies, etc.)
 *Davis, Thomas B.
 *Donaldson Saw Co. (Saws, etc.)
 *Electric Construction & Machine Co.
 *Griswold Mfg. Co. (Vending Machines)
 *†Kuhner Engine & Machine Co.
 *†§Mayer, S. A. Mfg. Co. (Brass & Iron Castings, etc.)
 †Morris & Lewis (Brake Shoes & Castings)
 *†Rock Island Plow Co. (Agrl. Impls., Plows, etc.)
 *†Rock Island Stove Co. (Stove Mfrs.)
 *†Walsh Brake Shoe & Foundry Co.
ROSELLE—*Becker & Leiseberg
RUSHVILLE—*Rushville Machine & Wagon Co.
ST. CHARLES—*§Crown Electrical Mfg. Co. (Chandeliers, Bicycle Chains, etc.)
 *Doig File Co. (Files, etc.)
 *†Faultless Mfg. Co. (Steel Ranges, etc.)
 *Leader Fence Machine Mfg. Co.
 †Moline Malleable Iron Co
 *Switzer, W. R. (Machinist)
SALEM—*Merz, N.
SANDWICH—*†Enterprise Windmill Co.
 *Estep & Dolan (Angle Benders, etc.)
 *†Sandwich Mfg Co (Agrl Impls, Harvesters, Mowers, Etc.)
 *Sandwich Pole-Changer Co. (Electrical Instruments, etc.)
SAVANNA—*Stransky & Oyster (Agrl. Impls.)
SENECA—*Shaw's, J. L. Sons (Machinists)
SHELBYVILLE—*†Shelbyville Machinery Co.
 *†Sturgis, W. B. & Son (Plows, etc.)
SHELBYVILLE—*†Sturgis, W. B. & Son
SHELDON—*Harris, F. F. (Plows, etc.)
SIDELL—*Cross, Chas. E.
SOMONAUK—*California Windmill Co.
SPARTA—*†Crothers, F. R. & Co. (Sparta Plow Works) (Plows, Harrows, etc.)
 *Little Giant Punch & Shear Co.

SPRINGFIELD—*†Aetna Fdry & Machine Co (Power Transmitting Machinery, Castings, Etc.)
 *Ansell, Oscar (Machinist)
 *Bleser, Jacob (Machinist)
 †Parris, Joseph
 *Hass, R., Electric & Mfg. Co. (Electrical Supplies, etc.)
 *Heineke & Co. (Inc.) (Straw Stackers, etc.)
 *†Ide, A. L. & Sons (Steam Engines, Etc.)
 *Illinois Watch Co. (Watches, etc.)
 *†Racine Sattley Co. (Vehicles, Agrl. Impls., etc.)
 *†Sangamon Electric Co. (Water Meters)
 *†Springfield Boiler & Mfg Co (Dredging)
 *†Springfield Bridge & Iron Co. Mach'y
 *Springfield Harrow Co.
 *Young Bros.
 STERLING—*Bauder, Ervin (Machinist)
 Breiding Gas Machine Co. (Gas Machines, etc.)
 *Cassens, G. M.
 *†Charter Gas Engine Co (Gas Engines)
 *Harrison Mfg. Co. (Corn Planters, etc.)
 *†Lawrence Bros. (Door Hangers, Hdware, etc.)
 *Meister & Cochran (Radiators, etc.)
 National Mfg. Co. (Hardware Specialties)
 *Novelty Iron Works
 †Sterling Foundry Co.
 †Sterling Mfg. Co. (Agrl. Impls.)
 STREATOR—*Alliance Mfg. Co. (Agrl. Impls.)
 *G. & D. Mfg. Co. (Hardware Specialties, etc.)
 *Graves, L. L.
 *Iwan Bros. (Ditching Machines, etc.)
 *Superior Co. (Machinery, etc.)
 SULLIVAN—*†Thomas Machine Co.
 SYCAMORE—*†Sycamore Foundry Co. (Hardware Specialties, etc.)
 TAMPICO—†West, De Witt
 TAYLORVILLE—*Baughman, S. E. & Sons (Agrl. Impls.)
 *Hirshfield & Piper
 *Hollis, N. F. (Machinist)
 TINLEY PARK—*Boldt, George
 TRENTON—*Lentwiler, John H.
 URBANA—*†C. C. & St. Louis R. R. Shops
 *†Leavitt Mfg. Co. (Cattle Dehorners)
 *†University of Illinois
 VANDALIA—*†Craycroft, Benj. (Brick Mach'y & Fdry.)
 VAN ORIN—*Zimmerline, N. & Sons (Pumps, etc.)
 VERMILION—*Downing, Thos. D. & Co.
 WATSEKA—†Henderson, Wm.
 WAUKEGAN—*Hall Gas Engine Mfg. Co.
 *Nelson, Nicholas (Gas Engines, etc.)
 *§Northern Brass Mfg. Co.
 *Chicago Recording Scale Co. (Piano Motors, Novelties, etc.)
 *†Thomas Brass & Iron Co. (Iron & Brass Founders & Steam Specialties)
 *†Wright, Wm. (Fdy & Machinist)
 WAVERLY—*Rogers, H. J. (Machinist)
 WEST CHICAGO—†American Heater Mfg. Co.
 *Chicago Crossing Co. (Crossings, etc.)
 WHITE HALL—*Winn Bros. (Machinists)
 WINTHROP HARBOR—*†Willard, Chas. P. & Co. (Marine Engines, etc.)
 WOODSTOCK—*Abbott & Hollister
 *Griebel, E. G. (Machinists)
 *§Hecht Bros. Mfg. Co. (Brass Castings, etc.)
 *Oliver Typewriter Co. (See Chicago)
 XENIA—*Peirce, Jno A. (Machinist)

INDIANA.

ANDERSON—*Anderson Bridge & Scraper Co. (Road Scrapers, Etc.)
 *Anderson Computing Scale Co. (Computing Scales, etc.)
 *Anderson Forging Co. (Carriage Hdwy, etc.)
 *†Anderson Foundry & Machine Works (Tin & Brick Machinery & Castings)
 *Anderson Knife & Bar Co.
 *Anderson Tool Co.
 *†Buckeye Mfg. Co. (Engines, etc.)
 *Hardware Specialty Mfg. Co. (Hdw. Specialties, etc.)
 *†Hill Machine Co. (Pumping Machinery)
 *Hill Standard Mfg. Co. (Lathe Dogs, Key-Seating Machines, Tool Holders, etc.)
 *Johnson-Reynolds Co. (Gas Regulators)
 *Lambert Gas & Gasoline Engine Co. (Engines & Well Mach'y, Etc.)
 *§Laville Foundry Co. (Brass Fdrs)
 *National Wrought Iron Annealing Box Co.
 *Reliable Machine Co. (Machinists)
 †Remy Electric Co.
 §Schneider, John & Son.
 *Westerfield Motor Co.
 *†Woolly Foundry & Machine Co. (Gas Engines, Brick Presses, etc.)

ANGOLA—*†Angola Engine & Foundry Co.
 †Angola Furnace Co.
 *†Cary, Chas. (Machinist & Founder)
 ARGOS—†Indiana Tank Heater Co. (Tank Heaters, etc.)
 ATTICA—*Attica Bridge Co. (Bridge & Steel Structural Work, etc.)
 AUBURN—*Standard Mfg. Co. (Cigar Lighters, Cheese Cutters, etc.)
 *Zimmerman Mfg. Co. (Windmills, Pumps, etc.)
 AURORA—*Aurora Tool Works (Milling Machines, Upright Drill Presses, Etc.)
 *Check, M. B.
 *Stamm Machine Works (Stave Rejoiners & Woodworking Machinery)
 *†Stedman's Foundry & Machine Works (Crushing & Pulverizing Mach'y)
 BATESVILLE—*Brummer, Fred (Machine Shop)
 BEDFORD—*†Bedford Fdry & Machine Works
 BERNE—*Moser, A. J. & Co. (Inc.)
 BLOOMFIELD—*†Bloomfield Mfg. Co.
 *Star Jack Co. (Jacks, etc.)
 *Union Jack Co. (Jacks, etc.)
 BLOOMINGTON—*†Seward & Co.
 BLUFFTON—*†Bluffton Mfg. Co. (Corn Planters, Washing Machines, etc.)
 *†Grimes, Geo. W. (Engines & Fdry, Etc.)
 *Red Cross Mfg. Co. (Windmills, Well Tools, etc.)
 BOONVILLE—*†Boonville Foundry & Machine Co.
 BRAZIL—*†Crawford & McCrimmon Co. (Mining Mach'y, Castings, etc.)
 *Shaw, Wm. M., Co. (Machinists)
 BREMEN—*†Holland Radiator Co. (Radiators, etc.)
 *May, William (Machinist)
 BUTLER—*†Butler Co. (Windmills, Wind Engines, Etc.)
 *National Drill Co. (Cultivators, Grain Drills, Etc.)
 †Schaefer, Casper (Gas Stoves, etc.)
 CANNELTON—†Cannelton Iron Works
 CARTHAGE—*Butler Mfg. Co.
 CICERO—*Arduser, Chris.
 CLAY CITY—*Nickey, Chas. F.
 COLUMBIA CITY—*Columbia City Machine Works
 *†Lawrence, John F.
 COLUMBUS—*Benfield Bros.
 *†Caldwell & Drake Iron Works (Iron Fdrs. & Bldrs. Iron Work)
 *Columbus Machine Works
 *Keller, C. M. (Coal & Coke Crushers, Etc.)
 *†Reeves & Co. (Agrl. Impls, Saw Mills, Etc.)
 CONNERSVILLE—*Ansted Spring & Axle Co. (Carriage & Wagon Axles & Springs, etc.)
 *†Connerville Blower Co. (Pumps, Rotary Blowers, Etc.)
 *†Root, P. H. & F. M. Co. (Pumps & Rotary Blowers, Etc.)
 †Smith Stove Co.
 *Stant, Geo. Machine Works
 *Triumph Safe & Lock Co.
 *†Wainwright, W. W. (Fdry & Machinist)
 CONVERSE—*†Fink, A. W.
 *Renaker, J. H. & Son
 CRAWFORDSVILLE—*Birch & Birch
 †Lyle & Reynolds (Foundry)
 DECATUR—*†Van Camp, Anson (Flour Mill Machinery)
 DELPHI—*Delphi Machine Co.
 DUBLIN—*Morgan, E. S. (Machinist)
 DUNNINGTON—*Metzinger, J. H. (Gas Engines, etc.)
 DYER—*Batterman, Henry C.
 EAST CHICAGO—*†Famous Mfg. Co. (Hay Presses & Gasoline Engines)
 *†Goodman Mfg. Co. (Electric & Mining Mach'y, etc.)
 *Graver, Wm. Tank Works
 ELKHART—*Automatic Heat Regulator Co. (Heat Regulators, Etc.)
 *†§Buescher Band Instrument Co. (Special Mach'y, Brass & Aluminum Castings, Dies, etc.)
 *§Chicago Telephone Supply Co.
 *Davis Acetylene Co. (Gas Machines, etc.)
 *§Elkhart Brass Mfg. Co. (Brass Goods for Fire Departments, Plumbers, etc.)
 *Elkhart Bridge & Iron Co.
 *Foster-Kimball Mach. Co. (Lathes, etc.)
 *Gardner & Stenberg (Machinists)
 *General Mfg. Co. (Bag Printing & Special Mach'y, etc.)
 †Kelley, Edw., Foundry Co. (Iron Fdry)
 *Kuhlman Electric Co. (Electrical Specialties)
 *Noyes Carriage Co. (Agrl Impls & Carriages)

ELWOOD—*†Dawson, Chas. (Machinist & Founder)
 †Elwood Iron Works
 *Elwood Lawn Mower Co. (Lawn Mowers)
 EVANSVILLE—†Advance Stove Works (Stoves, etc.)
 *Bernardin Bottle Cap Co. (Bottlers' Machinery)
 *†Blount, H. F. (Agrl Impls, Plows, Etc.)
 *†Carmody, J. D. (Boilers, Steam Heaters, Etc.)
 †Crescent Stove Works (Stoves, Etc.)
 *Evansville Brass Works
 *†Evansville Pump Mfg. Co. (Pumps, etc.)
 *†Evansville Stove Works (Stoves, Ranges & Hollow Ware)
 *†Evansville Tool Works (Axes, Hammers, Picks & Castings, Steel)
 *†Grote Mfg Co. (Iron Fdrs, Bldrs Iron Work, Etc.)
 *†Hartig-Becker Plow Co. (Plows, Cultivators, Etc.)
 §Healey, Peter (Brass Fdry)
 *†Heilman Machine Works (Engines, Saw Mills, Threshers, Etc.)
 *†Holtz, Ferd (Iron Fdry., Saw Mills, Etc.)
 *†Indiana Stove Works (Stoves, Ranges & Hollow Ware)
 *†Mesker, Geo. L. & Co. (Iron Fdrs & Bldrs Iron Work)
 *§Nehring, Wm. H. & Co.
 *Smith Hoe & Tool Co. (Agrl. Impls., etc.)
 *†Southern Stove Works (Stoves, Ranges & Hollow Ware)
 *†Vulcan Plow Co. (Plows, Etc.)
 FERDINAND—*†Kitten, Joseph F. (Thresh-FORT BRANCH—†Lintz Bros. ers, etc.)
 FORT WAYNE—*Adams-Taylor Machine Co.
 *†§Bass Foundry & Machine Co. (Corliss Engines, Forgings, Iron & Steel, Castings, Gray Iron, Car Wheels, Etc.)
 *Bowser, S. F. & Co. (Oil Tanks & Pumps, Etc.)
 †Central Foundry Co. (Window Weights, etc.)
 *†§Fort Wayne Electric Works (Dynamo Motors, Etc.)
 *†Ft. Wayne Foundry & Machine Co. (Engines, Saw Mills, Etc.)
 *Ft. Wayne Windmill Co. (Windmills, Etc.)
 †Gruber & Benges Iron Works
 *Haberborn Engine Co. (Gas Engines)
 *Hanna Brackenridge Co. (Machinists)
 *Horton Mfg. Co. (Agrl Impls, Corn Planters, Etc.)
 *Indiana Road Machine Co. (Road Making Mach'y, Etc.)
 *†Kerr-Murray Mfg Co. (Gas Works Apparatus & Mac)
 *†Knott-Van Arnem Mfg. Co. (Flumbers' Supplies, Etc.)
 *§Kunkle, E. B. & Co. (Brass Fdrs & Machinists, Safety Valves, Etc.)
 †Menefee Foundry Co. (Iron Fdrs)
 *Stenger, Peter
 *Wayne Oil Tank & Pump Co.
 *†Western Gas Construction Co. (Gas Works Apparatus & Mach'y)
 FRANKFORT—*Eldridge & Smith (Machinists)
 *†§Frankfort Brass Works (Brass Fdrs)
 *Model Machine Works (Machinists)
 *†Wallace Mfg. Co. (Brick & Drain Tile)
 FREMONT—*Ewing, James (Mach'y)
 GARRETT—*Garrett Machine Works (Gas Engines, etc.)
 GAS CITY—*Indiana Edge Tool Co.
 GENEVA—*Cross, W. D.
 GOSHEN—*American National Machine Works
 *American Register Co. (Engines, etc.)
 *Carmien, C. C. (Seed Sowers)
 *†Goshen Motor Works (Gasoline Engines, Launches, Etc.)
 *§Harwood, L. A. (Brass Foundry)
 *†Kelly Fdry & Mach Co (Boiler Fronts, Grate Bars, Etc.)
 *National Dairy Machine Co. (Dairy Machinery, etc.)
 *†Pease, Henry W., Engine Works (Gas Engines)
 *†Thomas-Albright Co. (Hydraulic Presses)
 GREENSBURG—*Luchte & Bowman Co.
 *†Skeen, W. P. & Co. (Machinists & Fdrs.)
 GREENCASTLE—*§Cole Bros. Lightning Rod Co.
 GREENFIELD—*†Abbott, J. R. (Machinist)
 GRIFFITH—*†Potter, B. B. Co. (Hardware Specialties, etc.)
 HAGERSTOWN—*†Light Inspection Car Co. (Light Inspection Cars, Gas Engines, etc.)
 HAMMOND—*Champion Potato Machinery Co. (Potato Mach'y)
 *†North Star Iron Works
 *†Simplex Railway Appliance Co. (Car Bolsters, Roller Side Bearings, Etc.)

HARTFORD CITY—†Bowen, W. J. & A. L. (Machinists & Iron Fdrys)
 *McClintock & Co.
 *†Mock, Jas. F. (Brick Mach'y & Dryers)
HUNTINGTON—†Hensley Trolley Co. (Trolley Wheels, etc.)
 *Newcomb, C. E.
INDIANA HARBOR—†American Steel Foundries (Inc.) (See Chicago, Ill.)
 *†Standard Forging Co. (R. R. Forging Specialties)
INDIANAPOLIS—Advance Thresher Co. (See Battle Creek, Mich.)
 *§American Brass & Aluminum Works
 *†American Car & Foundry Co. (See St. Louis, Mo.)
 *†American Foundry Co., Warman av & Vandalla R. R.
 *Atkins, E. C. & Co. (Saws, Tools & Mach'y), 402 S Illinois
 *†Atlas Engine Works (Engines & Mach'y), 19th & Martindale av
 *†Brown-Ketcham Iron Works (Castings & Structural Steel Work)
 *†Byram Foundry Co., 921 Biddle
 *Capital Gas Engine Co. (Gas Engines, Etc.)
 *Capital Machine Works, 502 S Penn
 *Castle Ice Machine Co. (Ice Machinery), 19 W South
 *Central Machine Works (Machinists & Portable Boring Bars, etc.), 240 W Henry
 *†Chandler & Taylor Co. (Engines & Saw Mill Mach'y, etc.), 740 W Wash av
 *Climax Machy Co. (Farm & Dairy Machines)
 *Commercial Mfg. Co. (Gas Engines)
 *Crescent Machine & Tool Co. (Special Mach'y), 220 S Penn
 *†§Dean Bros. Steam Pump Works (Pumping & Condensing Machy)
 *†Enterprise Foundry & Fence Co. (Grey Iron Castings)
 *†Gaar, Scott & Co. (See Richmond, Ind.)
 *Goodwin, Harry E. (Concrete Machy)
 *Green, Thos. L. & Co. (Bakers' Machy),
 *Hall, Albert B. (Laboratory Machy)
 *Hensley, Jas. W. (Clay Working Machy), Lemcke bldg
 *†Hetherington & Berner Co. (Asphalt Machy & Foundry), 19 W South
 *†Home Stove Co. (Stoves & Ranges, 117 S Meridian
 *Howard, Michael E. (Machinist), 374 S Senate av
 *Hubbel, O. (Canners' Machy)
 *Indiana Brass & Iron Bed Co.
 *Indiana Mfg. Co. (Straw Stackers)
 *Indiana Wire & Brass Works
 *§Indianapolis Aluminum & Brass Co.
 *†Indianapolis Excelsior Machy. Co. (Excelsior Machy, Etc)
 *†Indianapolis Foundry Co. (Light Gray Iron Castings), 131 Harding
 *Indianapolis Lock Co. (Post Office Equipments, etc.)
 *†Indianapolis Stove Co.
 *Indianapolis Tool & Mfg. Co. (Special Machinery, Tools & Dies), 15 McNabb
 *†Insley Iron Works (Iron Fdrys)
 *†Inter-State Car Co. (Contractors, Cars & Repair Work)
 *†Kennedy, Pat'k W., 1019 Beecher
 *Jenney Electric Mfg Co. (Dynamos & Motors)
 *§Keyless Lock Co. (Post Office Equipments, Etc.)
 *Knight & Jillson Co. (Plumbing Specialties, Etc.)
 *†§Langsenkamp-Wheeler Brass Works (Brass Founders & Finishers)
 *†Laycock, T. B., Mfg. Co. (Iron & Brass Bedsteads, etc.)
 *†Link Belt Co. (Ewart Works), 515 N Holmes av (Main office, Chicago, Ill.)
 *†McNamara-Koster Fdry. Co. (Grey Iron Castings), 408 S Penn
 *Monarch Governor & Machine Co. (Monarch Governors, Etc.), 1261 Barth av
 *†National Boiler & Sheet Iron Works
 *†National Malleable Castings Co. (See Cleveland, O.)
 *†Noelke-Richards Iron Works (Builders Iron Work & Castings), 180 E. Palmer
 *†Nordyke & Marmon Co. (Flour Mill Machy, etc.)
 *†Over, Ewald (Grey Iron Castings), 426 S Penn
 *†Parkhurst Mfg. Co. (Elevators & Machinists), 218 Kentucky av
 *†Peerless Foundry Co. (Castings & Stone Repairs), 710 E Maryland
 *§Pioneer Brass Works (Brass, Bronze & Aluminum Founders, Finishers & Plumb-ers' Goods), 418 S Penn

*Potter Mfg. Co. (Trench Machinery, Etc.), 2010 Northwestern av
 *Poindexter Mfg. Co. (Machinery, etc.)
 *†Potts, C. & A. & Co., (Clay Machy.), 816 W Washington av
 Rexroth, Louis (Machinist), 144 S Delaware
 *Rice, Matson & Matthews (Gas & Gasoline Engines, Automobile Parts, etc.)
 *†Rockwood Mfg Co. (Founders & Machinists), 1801 English av
 *Russell Wind Stacker Co. (Straw Stackers), 1001 Shelby
 *†Shirley Radiator & Foundry Co. (Radiators), Indiana Trust bldg
 *Simon, Louis P. (Machinist), 371 S Meridian
 *†Sinker-Davis Co. (Engines & Saw Mill Mach'y), 230 S Missouri
 *Spacke, F. W. Co. (Air Compressors, etc.)
 *Specialty Mfg. Co. (Blowers, Exhausters, Fans, Water Motors, etc.)
 *†Speed Changing Pulley Co.
 *Standard Machine Co. (General Mchnsts), 33 W Chesapeake
 *Union Embossing Machine Co. (Wood Embossing Machines), 750 E Washington
JASPER—*Jasper Machine Works
JEFFERSONVILLE—*†American Car & Foundry Co. (Car Builders, etc.). (See St. Louis, Mo.)
 *American Vending Machine Co.
 *†Anderson, Geo. S. & Bros. Co. (Machine Work, Etc.)
 *Bauer Machine Co.
 *†Indiana Mfg. Co. (Hollow Ware, Etc.)
KENDALLVILLE—*†Baker, J. R. & Sons Co. (Specialties)
 *†Flint & Walling Mfg. Co. (Windmills, Engines, Pumps, Etc.)
 *†Wallace Mfg. Co.
KNIGHTSTOWN—*Albertson, E. J.
 *Columbia Electric Co. (Automobiles, Telephones, etc.)
 *Parrish, Alford Fence & Machine Co. (Fence Machines, etc.)
KOKOMO—*Apperson, Elmer
 *Byrne, Kingston & Co. (Inc.) (Brass Foundry)
 *Chandler, B. H.
 *†Ford & Donnelly (Castings & Jobbing)
 *†Globe Stove & Range Co. (Steel Ranges, etc.)
 *§Kokomo Brass Works
 *Kokomo Fence Machine Co. (Fence Machinery)
 *Rockford Bit Co. (Bits)
 *Standard Motor Co. (Gas Engines & Motors)
 *Walton & Macke (Mfrs. Nail Machines)
LAFAYETTE—*†Barbee Wire & Iron Works (Bldrs Iron Work & Castings, etc.)
 *Biggs, B. F., Pump Co. (Pumps, etc.)
 *§Duncan Electric Mfg. Co. (Electric Meters)
 *Lafayette Fence & Machine Co. (Fence Machines)
 *†Lafayette Stove Fdry. Co. (Stoves, etc.)
 *†McGrath, R. H. (Iron Fdry)
 *Ross Gear & Tool Co. (Tools, Auto Gears, etc.)
 *†Schwab Safe & Lock Co.
 *Sterling Electric Co. (Telephone Supplies, etc.)
 *†Wallace Foundry & Machine Co. (Engine Bldrs, Castings, etc.)
LAPEL—*Wright, George (Gas Regulators, Pumps, etc.)
LA PORTE—*Gangwer & Roberts
 *La Porte Gas Meter (Gas Meters)
 *Niles & Scott Co (Wheels, etc.)
 *†Rumely, M. Co. (Engines, Threshers, Stackers, etc.)
 *Walsh Governor Co. (Steam Engine Governors)
LAWRENCEBURG—*†Cook, A. D. (Steam Pumps, Etc.)
LEAVENWORTH—*Jenner, John H.
LIBERTY—*†Rude Bros. Mfg Co. (Grain & Corn Drills, Cultivators, Etc.)
LIGONIER—*Haney Gasoline Engine Co.
LOGANSPOUT—*American Steel Dredge Works (Dredging Machy, etc.)
 *†King Drill Co. (Grain Drills, etc.)
 *McAllister, E. A. (Jobbing, etc.)
 *Oberchain & Boyer (Boiler Cleaners, Fire Extinguishers, etc.)
 *†Western Motor Co. (Gas Motors, etc.)
MADISON—*†Johnson Fdry. & Machine Shops
 *†Madison Machine Co. (Machinists)
 *†Madison Stove Co. (Stoves)
MARION—*American Drill Co. (Grain Drills, etc.)
 *Custer Electric Mfg. Co.
 *Gillespie, L. W. & Co. (Dynamos, Motors, Gas & Gasoline Engines, etc.)
 *†Home Pride Range Co.
 *†Hoosier Stove Co.
 *†Hulley, Jos.
 *§Indiana Brass & Bronze Co.

†Marion Grey Iron Fdy Co. (Grey Iron Castings, Etc.)
 *†Marion Iron & Brass Bed Co.
 *†Marion Machine Fdy & Supply Co.
 *†Marion Malleable Iron Works
 *†Marion Stove Co. (Stoves)
 *†National Sweeper Co.
 *Western Drop Forge Co.
MATTHEWS—†Electric Steel Casting Co.
MELTZER—*Meltzer, F. & R. T.
MICHIGAN CITY—*Eichstaldt, Roman (Machinist)
 *†Haskell & Barker Car Co. (Car Bldrs)
 *†Hillstrom Machine Co. (Machinists)
 *Michigan City Iron Works (Machinery)
 *Western Launch & Engine Works (Inc.) (Gasoline Engines, Launches, etc.)
MISHAWAKA—*†DODGE MFG. CO (Power Transmitting Mach'y). See adv. index, end of book
 *Landgraf, John P. & Co. (Machinists)
 *Mishawaka Machine Co.
 *†Mishawaka Plow Co. (Plows, etc.)
 *†Perkins Windmill Co.
MONROEVILLE—*Salway Bros. Co.
MONTEZUMA—*Montezuma Machine Works
MONTPELIER—*Montpelier Cup & Metal Works
 *†National Steel Casting Co. (Open Hearth Steel Castings)
MOUNT VERNON—*†Keck, Gonnerman Co. (Iron Fdrys, Threshers, etc.)
MUNCIE—*†American Lawn Mower Co. (Lawn Mowers & Castings)
 *Broderick & Quinlan Mfg. Co. (Boilers, etc.)
 *Carpenter, Albert (Engines, Boilers, etc.)
 *Crozier, Cary (Gas Pumps & Engines, etc.)
 *Dyer Bros.
 *†Eagle Foundry Co.
 *Hanika, C. E. (Structural & Ornamental Iron Work)
 *Indiana Steel & Wire Co.
 *Kitseiman Bros. (Inc.) (Fence Machines, etc.)
 *†Machinists' Foundry Co.
 *Moon, W. H., Machine Co.
 *†Muncie Fdy. & Machine Co. (Gas House Machy, Castings, etc.)
 *Muncie Gas Engine & Supply Co. (Gas Engines & Oil & Gas Well Supplies)
 *†Murphy, Patrick (Castings)
 *Warner Electric Co. (Electrical Spitties)
 *†Warner Gear Co. (Gears, etc.)
 *†Whitely Malleable Castings Co.
 *†Whiteley Steel Co. (Steel Castings)
 *Wide Range, Drill Chuck & Tool Co. (Drill Chucks & Tools)
NAPOLÉON—*Schleuter, Stephen
NAPPANEE—*Volkman, Conrad D.
NEW ALBANY—*†Anchor Stove & Range Co. (Stoves, etc.)
 *†Gardner, S. J.
 *†Gohmann Bros. & Kahler Co. (Stoves, etc.)
 *Goetz-Coleman Mfg. Co. (Gasoline Engines, etc.)
 *†Hegewald, Chas. Co.
 *†New Albany Mfg. Co. (Stone Working Machy)
 *Todd Mfg. Co. (Machinery, etc.)
NEW CASTLE—*†§Brass & Iron Bedstead Co.
 *†New Castle Foundry Co. (Iron Fdrys, Grey Iron Castings)
 *New Castle Machine Works (Machinists)
 *Pan-American Bridge Co. (Bridge & Structural Steel Work, etc.)
 *Safety Shredder Co. (Corn Shredders, etc.)
 *Shopp, W. A. & Co. (Machinists)
NEW MOUNT PLEASANT—Steed Bros.
NEW HARMONY—*†Trethway, W. O.
NOBLESVILLE—*Hare, J. H.
NORTH MANCHESTER—*†Manchester Mfg. Co. (Boiler Cleaners)
 *†Miller, Jesse E. (Pumps, etc.)
NORTH VERNON—*†Hicks, Harry (Machinist & Fdry.)
OAKLAND CITY—*†Dewitt-McIntyre Gear & Bending Works
OSGOOD—*†King, H. P. (Machinist)
PERRYSVILLE—†Cummingore, H. S. & Son
PERU—*McAllister, Thos. H.
 *Mallman Addograph Mfg. Co.
 *†Model Gas Engine Works (Engines, Gas & Gasoline, etc.)
 *†Parkhurst Mfg. Co.
 *Peru Electric Mfg. Co. (Elec. Specialties)
 *Sprug Grain Drill Mfg. Co. (Grain Drills, etc.)
PETERSBURG—*Meyer Machine Co.
PLYMOUTH—*†Anderson, Isaac.
 *†Clizbe Bros. Mfg. Co. (Tool Grinders, etc.)
 *Keller & Jeffers (Machinists)
 *†Monarch Iron Works (Inc.)
PORTLAND—*†City Foundry & Machine Co.
 *†Sees, H. W. & Co. (Fdrys.)
PRINCETON—*†Maddocks & Herschell (Fine Welding Machinery)

RED KEY—*Fiers & Kehrler (Pumps, etc.)
 *†Runyen, Jas. & Sons (Machinery)
RICHMOND—*†American Seeding Machine Co. (Agl. Implt.)
 *†Border Bolt & Nut Lock Co.
 *§Chandler & Art Brass Works
 *Dille & McGuire Mfg. Co. (Lawn Mowers)
 *Draver Bros. (Special Mach'y, etc.)
 *Elliott & Reid Co. (Fence Machines, Etc.)
 *F & N Lawn Mower Co. (Lawn Mowers)
 *†Gaar, Scott & Co. (Threshing Mach'y, Traction Engines & Saw Mills, Etc.)
 *†Gartside, W. N. (Fdry Supplies, Etc.)
 *Henley, M. C. (Roller Skates, Boring Mach'y, etc.)
 *Kiser, Daniel (Machinist)
 *Marlatt, Samuel (Machinist)
 *Quaker City Machine Co. (Jno. A. Evans, Propt.) (Ventilating Apparatus, etc.)
 *†Richmond City Mill Works (Flour Mill Mach'y)
 *†§Richmond Indiana Mfg. Co. (Iron & Brass Bedsteads, Carriage Lamps, Etc.)
 *†Richmond Machine Works (Engines, Saw Mills, Etc.)
 *Richmond Safety Gate Co. (Safety Gates, etc.)
 *†Robinson & Co. (Engines, Threshers, Belting Presses, Saw Mills, Etc.)
 *†Starr, W. C. & Son
 *†Wayne Works (Agl Implts.)
RISEING SUN—*†Clare's, Wm. Sons (Plows, Etc.)
ROBY—*Preble Machine Works (Inc.) (Wood Working Machy)
ROCHESTER—*†Ross Foundry & Machine Co.
ROCKPORT—*†Pfeifer, John C. (Fdry & RUSHVILLE—*Cook Machine Co. (Mach)
 *Long & Case Machine Co.
 *†Madden & Co. (Iron Founders, Tile & SALEM—*Bellows Bros. (Brick Machinery)
 SEYMOUR—*†Buhner, R. F. (Machinists & Iron Fdr.)
SHELBYVILLE—†Eagle Foundry Co.
 †Eagle Range Co.
SHIRLEY—*†Shirley Radiator & Foundry Co. (Radiators, etc.)
SOUTH BEND—§Bednarowicz, Teofil
 *†Birdsell Mfg. Co. (Clover Hullers, Straw Stackers, Wagons, etc.)
 *†Bowsher, N. P. Co. (Fdrs & Machinists)
 *Clover Leaf Machine Co. (Concrete Mixers, etc.)
 *†Coquillard Wagon Works (Heavy Wagons, etc.)
 †Green, Horace L. (Iron Fdry)
 *Haberle, John B. (Bolt Cutting Machines, Etc.)
 *Ideal Concrete Machy. Co. (Concrete Block Machy)
 *†§Indiana Fdry. & Machine Co. (Iron & Brass Castings & Hdw. Specialties)
 *Knoblock-Heideman Mfg. Co. (Electrical Mach'y & Specialties)
 †Malleable Steel Range Mfg. Co. (Ranges, Etc.)
 *Maurer, Wm. & Co. (Steam Specialties, etc.)
 *†Meyer Foundry & Mfg. Co. (Street & Building Castings, etc.)
 *†Oliver Chilled Plow Works (Plows, Etc.)
 *†Schock Machy. Co. (Power Drills, Etc.)
 *†Sibley Machine Tool Co. (Mach. Tools, etc.)
 *Soens, Christ (Power Drills, etc.)
 *†South Bend Chilled Plow Co. (Plows, etc.)
 †South Bend Foundry Co. (Grey Iron Castings, Street & Building Castings, etc.)
 *†South Bend Iron Bed Co.
 *South Bend Machine Mfg. Co. (Brick Machines, etc.)
 *†South Bend Machine Tool Co.
 *†South Bend Pulley Co. (Cast Iron Pulleys)
 *†South Bend Toy Mfg. Co. (Toys, etc.)
 *South Bend Watch Co. (Watches, etc.)
 *†§Studebaker Bros. Mfg. Co. (Wagons, Carts, Automobiles, etc.)
 *Sundries Mfg. Co. (Machine Novelties, etc.)
 *Westervelt, Herbert E. (Paper Bag Machy)
SULLIVAN—*Buettner & Shelbourne Machy Co.
FELL CITY—*Sanitary Laundry Machy. Co.
TERRE HAUTE—*†American Car & Foundry Co. (See St. Louis, Mo.)
 †Cooper, B. H.
 *Crown Machine Works (Inc.) (Cotter Pins, etc.)
 *†Eagle Iron Works Co.
 †Gartland Foundry Co. (Gray Iron Castings, etc.)
 *Government Standard Scale Works (Scales, etc.)

*Hazledine, Edw T. (Machinist)
 *Kester Electric Co. (Electric Motors)
 *O'Neil & Son (Machinists)
 *Pettyjohn Co. (Artificial Stone Machines)
 *†Prox, Frank, Co. (Coal Mining Machy, etc.)
 †Springer, A. H. & Co. (Iron Foundry)
 *Standard Wheel Co. (Bicycles)
 *§Terre Haute Bronze & Brass Co.
 †Terre Haute Stove & Furnace Co. (Stoves, Furnaces, etc.)
 †United States Scale Co.
 †Wallis Stoker & Mfg. Co. (Mechanical Stokers, etc.)
UNION CITY—*Backstay Machine & Leather Co. (Machinists)
 *Union City Wheel Co.
UPLAND—*Wise, R. S.
URBANA—*Speicher, D. E. (Seed Sowers, etc.)
VALPARAISO—*Crescent Co. (Electric Specialties)
 *†Patrick, J. H. & Son
VAN BUREN—*Boss Pulley Machine Co.
 *Mills Machine Co.
VEEDERSBURG—*Walter Bros.
VERNON—*Reed & Rogers Mfg. Co. (Harrows & Rakes, etc.)
VINCENNES—†Central Foundry Co. (See New York City)
 *†Hartman Mfg. Co. (Agl. Implts., Cultivators, etc.)
 †Hickman Street Foundry Co.
 *Mahoney R. R. Ditching Machine Co. (R. R. Ditching Machines)
 *†Star Shovel & Range Co. (Stoves & Ranges)
 *†Vincennes Foundry & Machine Co.
WABASH—*†Gemmer Engine Co. (Gas Engines, etc.)
 *Rettig, Frank J.
 *Standard Cash Register Co.
WAKARUSA—*Walmer & Gall.
WARREN—*Warren Machine Co. (Machinists & Tools)
WARSAW—*Maish Mfg. Co. (Mill Machy, etc.)
 *†Reynolds Heater Co. (Cast Iron Radiators)
 *†Werntz, O. W. & Co. (F'dry, etc.)
WASHINGTON—†Cole, W. E. (F'dry.)
 *†Denver, Frank
WINAMAC—*Winamac Bridge Co. (Structural Steel Work, etc.)
WINCHESTER—*Fitzmaurice, Wm. (Machinist)
 *Knecht & Thomas Pump Co. (Pumps, etc.)
WOLCOTTVILLE—*†Morel, J. L. & Co.

INDIAN TERRITORY.

ARDMORE—*Ardmore Automatic Co. (Slot Machines, etc.)
 *Jones, M. W.
BARTLESVILLE—*Sexton & Irvine
CHICKASHA—†Conrod Bros.
COAL GATE—†Pounder, H. (Fdry.)
DURANT—*†Kittrell, John
SAPULPA—*Sapulpa Machine Works
SOUTH McALESTER—*†Union Iron Works (Inc.) (Machinists)
TULSA—*Osage Mfg. Co. (Oil Tanks, etc.)
 *†Tulsa Fdry. & Machine Co.
VINITA—*Vinita Plow Co. (Agl'l. Impl'ts)

IOWA.

ADEL—*Vaughn Mfg. Co. (Printing Presses, etc.)
AKRON—*Hilliker, C. M. & Son
ALTA—*Larson, Edward
AMES—*Loughran Machine Co. (Agricultural Implements)
 *Watkins Mfg. Co. (Wire Machy, etc.)
ANAMOSA—†Griffith, Jno. C.
ATLANTIC—†Atlantic Iron Works
AURORA—*Aurora Mfg. Co. (Gasoline Engines, etc.)
BELLE PLAINE—†Palmer Bros. (Fdry.)
BELLEVIEW—*Brandt, J. M. (Gasoline Engines)
POONE—†Sample, J. F. (Fdry.)
 *Weinhart & Knight
BRITT—†Interstate Drainage & Investment Co.
 *National Mfg. Co. (Slot Machines)
BURLINGTON—*Cement Machinery & Mfg. Co. (Cement Machinery, etc.)
 *Mohland & Co. (Grubbing Machines)
 *†Murray Iron Works Co. (Corliss Engines, Ice & Refrigerating Machy., etc.)
 †Swedish Sleigh Bell Mfg. Co.
 *Van Beek, G. L. (Gasoline Engines, etc.)
CARROLL—*Helder Mfg. Co. (Equalizers, etc.)
CEDAR FALLS—*†Monarch Self-Feeder Co. (Straw Stackers, etc.)
 *Wagner Mfg. Co. (Hdw. Specialties)

CEDAR RAPIDS—*†Carmody, J. T. (Engines, Castings & Structural Work)
 *†Cedar Rapids Foundry & Mach. Co.
 *Cedar Rapids Mfg. Co. (Nail Pullers, etc.)
 *†Cedar Rapids Pump Co. (Iron Pumps, etc.)
 *†Chandler Pump Co. (Iron Pumps, etc.)
 *Davidson, F. F. (Trip Hammers, etc.)
 *Dearborn Brass Co. (Brass Founders' & Finishers' Plumbing Goods, etc.)
 Economy Furnace Co.
 *Fawcett, C. E. (Machinists)
 *†Iowa Windmill & Pump Co.
 *Long, Mfg. Co. (Machy.)
 *Porter & Erwin (Laundry Machy.)
 *Rabus & Toeller (Machinists)
 *Schmidt, Geo. R. (Machinist)
 *†Stary, F. (Iron Fdry.)
CENTREVILLE—*†Goss, Jos. & Son
 *†Kirchman, Wm. (Foundry)
CHARITON—†Chariton Iron Works
CHARLES CITY—*Daley, M. H. (Disc Harrows)
 *†Hart-Parr Co. (Traction, Stationary & Portable Gasoline Engines)
 †Moss, W. E. (Iron Fdry.)
CHEROKEE—*Cherokee Mfg. Co.
CLARINDA—*Lisle Mfg. Co. (Well Drilling)
CLARION—*Snyder & Henry (Mach'y)
CLINTON—*†Clinton Bridge & Iron Works
 *†Clinton Novelty Iron Works
 *†Fish Bros. Mfg. Co. (Wagons, etc.)
 *Iowa Machine Works (Inc.)
 *Lamb Boat & Engine Co. (Engines, etc.)
COUNCIL BLUFFS—*Barker, Wm. (Lightning Rods)
 *Bradley, David & Co. (Inc.), (Agl. Implts.)
 *Children's, E. Sons. Mfg. Co. (Agl. Implts.)
 *Clark Implement Co. (Agl. Implts.)
 *†Kimball Bros. Co. (Elevator Scales, Elevators, etc.)
 *†Peru Plow & Implement Co. (Agl. Implts., Plows, etc.)
 *Pioneer Implement Co. (Agl. Implts.)
 *†Sprague Foundry & Mfg. Co.
 *Walker Mfg. Co. (Agl. Impl'ts, etc.)
CRESTON—*Arnold, E. D. (Machinist)
DAVENPORT—*Beenk, Wm. H.
 *†Bettendorf Axle Co. (Axles, etc.)
 *†Bettendorf Metal Wheel Co.
 *†§Davenport Foundry & Machine Co. (Iron & Brass Casting, Steam Engine, Special Mach'y, etc.)
 *†DAVENPORT LOCOMOTIVE WORKS
 Light Locomotives, etc. (See adv. index, end of book)
 †Frank, H. J., Foundry Co.
 *Killing Moulding Machine Co. (Moulding Machines)
 †Red Jacket Mfg. Co. (Pumps, etc.)
 *†Wahle Fdry. & Machine Works
 *White Lily Washer Co. (Gasoline Engines, etc.)
DECORAH—*Johnson, Peter & Son (Machinists)
 *†Swenson Valve Co.
DENISON—*Luney Bros.
DES MOINES—*†American Iron Works
 *†Beckman Bros. (Pumps, Windmills, Scales, etc.)
 *†Centaur Wire & Iron Works (Inc.)
 †Crescent Furnace & Foundry Co.
 †Dempster Mfg. Co. (Pumps, Windmills, etc.)
 *†Des Moines Bridge & Iron Co. (Bridges & Structural Work, etc.)
 *†Des Moines Mfg. & Supply Co. (Brick, Flour Mill, Grain Elevator, Mining, Stucco & Saw Mill Machinery)
 *Des Moines Scale & Mfg. Co.
 *Dodd & Struthers (Static Electric Machines, X-Ray Apparatus, etc.)
 *†Eagle Iron Works (Mining & Brick Machinery, etc.)
 *Eldridge, Geo. G. (Machinist)
 *†Great Western Heater Co. (Heaters, etc.)
 *†Green Fdry. & Furnace Works (Hot Air Furnaces, etc.)
 *Jewett Typewriter Co. (Typewriters)
 *†Kelth Furnace Co. (Furnaces & Heaters)
 *Krone, Chas.
 *Monarch Machine Co. (Gas & Electric Engines, etc.)
 *†Spleth, Gottlieb F. (Plows, etc.)
 *Standard Safe & Lock Co.
 *Turner, Robert
 *†Turner & Brownlie (Machinists & Frs.)
 †Western Steel Construction Co.
 *†Wood Bros. Steel Self-Feeder Co. (Cnlt. vators, etc.)
DEXTER—*Standard Thresher Tooth Co. (Thresher Teeth, etc.)

DUBUQUE—†Adams Co. (Machine Tools, Founders, etc.)
 *†Cooper, A. A. Wagon & Buggy Co. (Plows, Cultivators, etc.)
 *Dubuque Boat & Boiler Works
 *Gordon, A. L. & Co.
 *Key City Iron Works
 *†McDonald, A. Y. & Morrison Mfg. Co. (Pumps, Brass Goods & Iron & Brass Founders)
 †Pitts-Thompson Foundry Co.
 *Ragatz, Geo. & Son (Machinists)
 *Scheppele, Chas. A. (Machinist)
 *†Schmid, Otto M. (Casket Hdwe)
 *Schrelber & Conchar Mfg. Co. (Hdwe Specialties, etc.)
 *†Smedley Steam Pump Co. (Steam Pumps, etc.)
 *†Vogenthaler, E. J. Co. (Casting & Bldrs.' Iron Work, etc.)
 EARLHAM—*Stanley, T. E.
 ELDON—*Shore, E. L.
 ELDORA—*†Brown Bros., Fdy. & Mach. Co.
 ELKADER—†Allen Bros.
 *Wagner, Louis E.
 FAIRFIELD—*†Louden Machinery Co. (Haying Tools, etc.)
 †Iowa Malleable Iron Co.
 *Pence, W. H.
 FENTON—*†Ridder Bros.
 FORT DODGE—*†Iowa Foundry & Mfg. Co.
 *Iowa Pump & Mfg. Co. (Pumps, etc.)
 FORT MADISON—*Childs & Otten
 *†Fort Madison Foundry & Mfg. Co.
 *Iowa Farming Tool Co. (Haying Tools, etc.)
 *†Morrison Mfg. Co. (Plows, Cultivators, Harrows, etc.)
 *†Reliable Foundry & Machine Co.
 GRINNELL—*Grinnell Mfg. Co. (Power Hammers)
 GRISWOLD—*Cocklin, L. A.
 GUTTENBERG—*Fuerste, Chas.
 HARLAN—*Nelson Gas Engine & Automobile
 HAWARDEN—*Wheiland & Rummel Co.
 INDEPENDENCE—*Iowa Mfg. Co. (Tread-mills, etc.)
 INWOOD—*Hansen, Joe.
 IOWA CITY—*Kelly, O. S. Western Mfg. Co. (Threshers, Feed Mills, etc.)
 *Schmidt, G. W. (Machinist)
 †Tuloss, I. E. (Foundry)
 IOWA FALLS—*†Gade Bros. (Gasoline Engines)
 IRETON—*Carter, John
 JANESVILLE—*Myers, W. W. (Gasoline Engines, etc.)
 KENSETT—*Locke, C. E. Mfg. Co. (Adding Machines)
 KEOKUK—*†American Stove & Range Co. (Stoves)
 †Decker Mfg. Co. (Hog Rings, Curry Combs, etc.)
 *†Kollmyer & Talbot (Machinists & Fdrs.)
 *†McElroy Iron Works Co.
 *†Scott Mfg. Co. (Brick Presses, Castings, etc.)
 *Thomas Bros.
 *Vissaer & Brown (Acetylene Gas Machines)
 *†Weber-Kirch Mfg. Co. (Hdwe Specialties & Cream Separators)
 LAKE MILLS—*Giving, J. B.
 LANSING—†Schultz, Henry
 LAURENS—*Kreul Bros.
 LEMARS—*†Pech, Gus, Foundry & Mfg. Co. (Well Drilling Machinery, etc.)
 LONE TREE—*†Monarch Grubber Co. (Stump Pullers, Feed Mills & Wagon Scales)
 LYONS—*Lyons Specialty Co. (Hardware Specialties)
 *†Pelton, T. G. & Son (Gasoline Engines)
 †Sewell, W. A. & Co. (Furnaces, etc.)
 *†U. S. Steel Lock Co.
 MARSHALLTOWN—*Dunham, C. A. Co. (Steam Traps)
 *Fisher Governor Co. (Gas & Water Tapping Machines, Pump Governors, etc.)
 †Lennox Furnace Co. (Furnaces)
 *†Lennox Machine Co. (Gas & Water Tapping Machines & Gasoline Engines, etc.)
 †Marshalltown Furnace Co. (Foundry)
 *†Shorthill, A. E. Co. (Iron Fdrs & Bldrs Iron Work, etc.)
 MASON CITY—*Beecher, A. H. (Machinist)
 *Rice Bros.
 †Vulcan Iron Works
 MECHANICSVILLE—*Davisson, O. J.
 MILTON—*Milton Mfg. Co. (Harrows, etc.)
 MISSOURI VALLEY—*†Neufund, Wm. (Agri Impls, etc.)
 MONONA—*Welgand, C. H.
 MONTICELLO—†Page, D. & Son, (Iron Fdrs)
 MONTOUR—*Downs, W. A.
 MUSCATINE—*†Barry Mfg. Co. (Button Machinery)
 *Fisher, Geo. W.
 *†Glesler & Co. (Malleable Iron Wagon Brakes, etc.)

*Heitz Machine Co. (Button Mach'y, etc.)
 *Miller, J. W. (Button Machinery)
 *†Niver Iron Works Co. (Grey Iron Castings, Building Fronts, Machine Castings, etc.)
 *Stohr & Freund
 *Vance & Baker Mfg. Co. (Machy)
 MYSTIC—*Ford, Geo.
 NEVADA—†Kelly, H. C.
 NEW HAMPTON—†Houdek Bros.
 NEWTON—*Brown, James
 *†Parsons Hawkeye Mfg. Co. (Gasoline Engines & Self-Feeders, etc.)
 *†Parson's Band Cutter & Self-Feeder Co.
 †Randolph Coupler Co. (Couplers, etc.)
 †Skow Bros.
 NORA SPRINGS—†Hof & Ladwig
 NORTHWOOD—†Eversen & Nelson
 ODEBOLT—*Reynolds & Kistler
 OELWEIN—*†Oelwein Foundry Co.
 OSKALOOSA—*†Ideal Heating Co. (Heating Apparatus, etc.)
 *†Interstate Mfg. Co. (Furnaces, etc.)
 *†Iowa Mfg. Co. Heating Apparatus & Plumbers' Supplies)
 †Lewis Bros. & Martin (Drinking Fountains, etc.)
 *†Seever's Mfg. Co. (Heaters, etc.)
 OTTUMWA—*American Mining Tool Co. (Mining Tools, etc.)
 *†Dain Mfg. Co. (Hay Loader, Haying Tools, etc.)
 *Hardscog Mfg. Co. (Coal Drills, etc.)
 *Hardscog Wonder Drill Co. (Rock Drills, etc.)
 *Johnston & Sharp Mfg. Co. (Ball Bearing Sash Pulleys & Hdw. Specialties, etc.)
 *†McCarroll, Chas. T. (Stoves, etc.)
 *Nicholls Mfg. Co. (Carpenters' Squares, etc.)
 *†Ottumwa Box Car Loader Co. (Car Loaders)
 *†Ottumwa Iron Works (Mining Machinery)
 *†Western Hay Tool Co. (Haying Tools, etc.)
 PELLA—*†Buerkens Mfg. Co. (Wagons, etc.)
 *†Pella Stacker Co. (Hay Stackers, etc.)
 PLEASANT PLAIN—*Burgess, Aaron
 PRAIRIE CITY—*†Dowden Mfg. Co. (Potato Harvesting Machy)
 *Jenks & Son (Gas Generators, etc.)
 RED OAK—*Bunker, Thos.
 †Kerrihard Co.
 *†Red Oak Bridge & Iron Works
 ROCKFORD—*Ayers, C. E.
 ROCK RAPIDS—*†Anchor Concrete Stone Co. (Cement Block Machy)
 SAC CITY—*†Martin Co.
 *Quinn Wire & Iron Works.
 SHENANDOAH—*†Swanson Mfg. Co. (Cultivators, Agri Impls, etc.)
 †Smith, Benjamin
 SIOUX CITY—*Central Machine Shops
 *Herman & Savage (Machinists)
 †Iowa Foundry Co.
 †Nuessle, C. C.
 *†Sioux City Fdry. & Mfg. Co.
 *†Weiler & Randolph (Jacks, etc.)
 SPENCER—*Maurer, F. X. Co. (Hay Presses)
 UNDERWOOD—*Valley Machine Co.
 VAN HORN—*Wicks, J. A.
 WASHINGTON—*McClean, T. H.
 WATERLOO—*†Bovee Grinder & Furnace Works (Inc.)
 *†Cascaden, Thos., Jr.
 *†Cascaden, Vaughan Co. (Gasoline Engines & Automobile)
 *Cement Tile Machinery Co. (Cement Tile Mach'y, etc.)
 *Galloway, Wm. Co. (Agri. Impls., etc.)
 †Gibson, David, Foundry Co.
 †Goodman, W. A.
 †Headford Bros. & Hitchins Foundry Co.
 *†Iowa Gasoline Engine Co. (Gasoline Engines)
 *†Kelly & Taneyhill Co. (Iron Fdrs. & Well Drilling Machinery)
 *†Kemp, J. S. Mfg. Co. (Manure Spreaders)
 *†Litchfield Mfg. Co. (Farm Machinery)
 Swem Gas Machine Co. (Gasoline Gas Plants)
 *Stewart Cement Block Machine Co. (Cement Block Machy, etc.)
 *Waterloo Automatic Stone Machine Co.
 †Waterloo Brass Foundry
 *Waterloo Cement Machinery Co. (Cement Mach'y, etc.)
 *†Waterloo Gasoline Engine Co. (Gasoline Engines, etc.)
 *†Waterloo Furnace & Feed Mill Co. (Feed Mills, etc.)
 *Waterloo Register Co. (Hot Air Registers)
 Waterloo Spreader Mfg. Co. (Manure Spreaders)
 †Zeising & Son

WAUKON—†Johnson, J. S. & Son
 WEBSTER CITY—*Closey & Howard Mfg. Co. (Grain Separators, etc.)
 *†Webster City Steel Radiator Co.
 WHAT CHEER—*What Cheer Tool Co.

KANSAS.

ABILENE—*Abilene Mfg. Co. (Self-Feeders, etc.)
 *Tollner, L. D. & Son
 ATCHISON—*Great Northern Mfg. & Supply Co. (Windmills)
 *Jacobs Bros.
 *†Seaton Foundry & Machine Co.
 *†Thayer Foundry Co.
 *Wright, Chas. A. (Windmills)
 BELLE PLAINE—*Owens, J. A.
 BLUE RAPIDS—*Farmers' Co-op. Mfg. Co. (Agri. Impls., etc.)
 BUNKER HILL—*†Shaffer, C. (Agri. Impls., etc.)
 BURLINGTON—*Electric Appliance Co.
 †Reams, G. W. & Sons
 BUSHTON—*Shonyo, B. C. & Co.
 CHEROKEE—*Webster, Frank L.
 CHERRYVALE—*Kansas Cultivator Shovel Co.
 *United Iron Works Co. (See Springfield, Mo.)
 CLAY CENTER—*†Clay Center Windmill & Foundry Co.
 *Watts, I. R.
 CODELL—*Johnson, W. H.
 COFFEYVILLE—*†Coffeyville Foundry & Mfg. Co. (Agri. Impls.)
 *†Coffeyville Implement & Mfg. Co. (Agri. Impls.)
 DODGE CITY—*†Zimmerman Hdw. & Mfg. Co. (Hdw. & Impls.)
 EDWARDSVILLE—*Pearson Mfg. Co. (Potato Sorters)
 EMPORIA—†Jones, Jos. C. & Sons.
 ENTERPRISE—*†Barnard Machinery Co. (Flour Mill Machy.)
 *†Ehram, J. B. & Sons Mfg. Co. (Flouring Mills, Cement & Plaster Mill Machy., etc.)
 FORT SCOTT—†Anderson, R. K.
 *†Eagle Foundry & Machine Co. (Feed Mills)
 *†Eller, Charles
 FREDONIA—*†Beoit, P. P.
 GALENA—*†Galena Foundry & Machine Co.
 *Kennedy, T.
 *Rauch, Jas. B.
 *Stone & Tinson
 GAS—*King Gas Engine Co. (Gas Engines, etc.)
 GIRARD—†Hitz, C. & Son.
 HIAWATHA—†Cash, W. F., & Co.
 Zimmerman & Lawrence
 HORTON—*Conn, Wm. A.
 HUTCHINSON—*Corp Iron Works.
 INDEPENDENCE — *†Independence Iron Works
 *Independence Standard Drilling Machine Co. (Drilling Machy., etc.)
 KANSAS CITY—†Armourdale Foundry Co. (Iron Fdrs.) (See Kansas City, Mo.)
 *Chadborn & Bailey (Fans, Models, Dies, etc.)
 *Badger Gas and Gasoline Engine Co. (Gas & Gasoline Engines)
 *Home Embroidery Machine Co. (Embroidery Machines)
 *†Riverside Iron Works Co. (Engines, Machinery & Castings)
 *†Strait, H. N. Mfg. Co. (Scales, Hay Presses etc.) (See Kansas City, Mo.)
 †West Side Foundry Co. (Iron Fdrs.)
 KINGMAN—*Osgood, Geo. A.
 LAWRENCE—*†Lawrence Iron Works.
 LEAVENWORTH—*†Fisher Machine Works Co.
 *†Great Western Mfg. Co. (Grain Elevator & Flour Mill Machy., etc.)
 *†Great Western Stove Co. (Stoves)
 *Hesse, W. G. & Son Mfg. Co. (Wagons, Hdw., etc.)
 *†Missouri Valley Bridge & Iron Co.
 *†Tholen Bros. (Machinists & Fdrs.)
 LINCOLN—*†New Process Mfg. Co. (Corn Cutters, etc.)
 †Jacobs, John P.
 McPHERSON—*Sederlund & Vedeon
 MANHATTAN—†Blue Valley Mfg. Co. (Agri. Impls.)
 MARION—*Pyle, R. F.
 MARYSVILLE—*†Hammett, L. H.
 MINNEAPOLIS—*Cleveland, Arthur J.
 NASHVILLE—*Demars, John
 NEWTON—*Miller Grain Drill Mfg. Co. (Grain Drills, etc.)
 *Nellins, G. M.
 *†Prairie Queen Mfg. Co. (Grain Separators, etc.)
 NORWICH—*Dobson, J. V.
 OBERLIN—*Bradley, Perry
 OSAWATOMIE—*Osawatomie Iron Works Co.
 OSKALOOSA—*†U. S. Bridle Bit Co. (Bridle Bits, etc.)
 OTTAWA—†Ottawa Foundry Co.
 PARSONS—*McFarlan, C. E., & Co.

*†Smith, Millard F.
 PERU—*Radads, Paul
 PLEASANTON—*†Pleasanton Foundry & Machine Co.
 PRATT—*Reschke, W. F.
 ROSEDALE—*†Kansas City Wire & Iron Works (Structural Iron Work, etc.)
 RUSSELL—*Miller, T. T.
 SABETHA—*Hay, H. P.
 ST. PAUL—*Sheffer, Frank
 SALINA—*Kuons, Wesley (Agricultural Implements)
 SEDAN—*Sedan Machine Shop Co.
 SENECA—*Wiley Emery Mfg. Co. (Agrl. Impls.)
 STAFFORD—*†Milton Garvin Steam Plow Co. (Steam Plows, etc.)
 TOPEKA—*†Capital Iron Works.
 *†Cofran, R. L. (Machinist & Fdry.)
 *†Hewitt Mfg. Co. (of Chicago, Ill.)
 *Jensen Mfg. Co. (Creamery Machy., etc.)
 *Jones, W. C.
 *Midland Foundry
 *Perine, A. B. (Plows, etc.)
 *Semprez, John
 *Topeka Bridge & Iron Co.
 *†Topeka Foundry
 WAKEENY—*Spena, John W.
 WASHINGTON—*†Hoerman Bros. Mfg. Co.
 WELLINGTON—*Curry Plow Co. (Plows, etc.)
 WICHITA—*Brooks Tire Machine Co. (Mchsts.)
 *Brown Mfg. Co. (Hdw., Novelties, etc.)
 *Christian, E.
 *†Faries, R. P.
 *Langdon, John F. (Threshing Machine Feeders)
 *†Moore Bros. (Iron Fdrs. & Stoves)
 *Peerless Machine & Supply Co.
 *†Sharon, W. J.
 *†Walterschied Mach'y & Supply Co. (Pumps & Windmills)
 *†Western Iron & Foundry Co.
 WILSON—*†Wolfe, W. S.
 WINFIELD—*†Lang, A. C.
 WOODSTON—*McNutt, Ira.

KENTUCKY.

ASHLAND—*†Ashland Foundry & Machine Works
 *Kilbourns, Frank E.
 *†Norton Iron Works
 *†Roberts, E. M. Co.
 AUGUSTA—*†Augusta Stove & Range Foundry (See E. H. Huenefeld, Cincinnati, O.)
 *Margraff Co. (Machy.)
 BOWLING GREEN—*†Bowling Green Machine Co.)
 *Roemer & Worrick Machine Co.
 BURNSIDE—*Kirsch, Edward.
 CANE VALLEY—*†Dudgeon Co. (Stoves, Ovens, etc.)
 CATLETTSBURG—*Grant, John
 CENTRAL CITY—*†Central City Foundry & Machine Co.
 CLAY CITY—*Burgher, H. G. & Son
 CLOVERPORT—*†Cloverport Foundry & Machine Co.
 CORYDON—*Corydon Machine Co.
 COVINGTON—*Anthe Machine Works
 *†Covington Archl. Iron Works
 *†Droege, I. & Sons Fdry. Co.
 *†Germania Supply Co.
 *†Hollingsworth, W. T. (Machine Tools, etc.)
 *†Houston, Stanwood & Gamble Co. (Steam Engines)
 *†Insurance Stove, Range & Foundry Co. (all kinds of light & heavy Machine Castings)
 *Sebastian Lathe Co. (Machine Tools)
 *Sehlhorst, A., Jr.
 *†Star Foundry Co. (Stoves and General)
 *†Stewart Iron Works Co. (Iron Fdrs.)
 *†Stewart Jail Works Co.
 EARLINGTON—*Earlington Iron Works
 EDDYVILLE—*†Kentucky Foundry Co.
 FLEMINGSBURG—*Henderson & O'Bannon
 FRANKLIN—*Enterprise Machine Co.
 FULTON—*Webb, C. E. (Iron Fdry.)
 HAWESVILLE—*Kentucky Plow Fender Mfg. Co.
 HENDERSON—*†Delvan, Geo. H. (Machinist)
 HICKMAN—*Buck, G. C. (Machinist)
 *Smith, Chas. F.
 HOPKINSVILLE—*†Forbes Mfg. Co. (Agrl. Impls., Hdw., etc.)
 LEXINGTON—*†American Metallic Packing Co. (Metallic Packings, Brass Castings & Genl. Machinists)
 *†Lexington Engine & Saw Mill Works
 *Timmons, Jos. (Machinist)
 LOUISVILLE—*American Brass Foundry (Brass Fdrs.)
 *†American Machine Co. (Elevators, etc.)

*†Avery, B. F. & Sons (Agrl. Impls., Plows, etc.)
 *†Bridgeford & Co. (Stoves)
 *†Brinly-Hardy Co. (Agrl. Impls., Plows, etc.)
 *†CALDWELL, W. E. CO. (Machinery & Fdrs.) (See adv. index, end of book)
 *Clark, Jas., Jr. & Co. (Machine Tools, Dynamometers, Motors)
 *Cook, C. Lee Mfg. Co.
 Daeuble, Will Machine Co. (Elevator Repairs & Machine Work)
 *†Dow Wire & Iron Works Co.
 *†Drummond Mfg. Co.
 *†Graf-Webb Iron Mfg. Co. (Stoves)
 *†Grainger & Co.
 *Haight & Co. (Brass Fdrs., Finishers & Platers)
 *Kentucky Gear & Machine Co.
 *†Kentucky Stove Co. (Stoves)
 *Knoel-Kappa Machine Co.
 *Kochenrath, C. A.
 *†Louisville Car Wheel & Railway Supply Co. (Car Wheels, etc.)
 *†Louisville Drying Machinery Co. (Drying Machinery)
 *Moran Flexible Steam Joint Co.
 *†National Foundry & Machine Co. (Steam Pumps, etc.)
 *†O K Stove & Range Co. (Stoves)
 *†Peerless Mfg. Co. (Iron & Brass Fdrs., Grates & Iron & Brass Goods)
 *Pyne, W. T. Mill & Supply Co.
 *†Snead Archl. Iron Works (Iron Fdrs. & Bldrs. Iron Work)
 *†Steger, E. A. Mfg. Co. (Brass Fdrs. & Finishers & Platers)
 *†Stiglitz, Chas. G. & Sons (Iron Fdrs.)
 *Stitzer Stall Co.
 *†Vogt, Henry Machine Co. (Ice & Refrigerating Machy., etc.)
 LUDLOW—*Carran, R. B.
 MADISONVILLE—*†Holland Ross Machinery Co. (Machinists & Fdrs.)
 MAYFIELD—*†Mayfield Foundry & Machine Works
 MAYSVILLE—*†Hall, Jas. H. Plow Co. (Plows, etc.)
 *†Maysville Fdy., Machine & Marine Co.
 McHENRY—*McHenry Mfg. & Machy. Co.
 MORGANFIELD—*Morganfield Mach. Works.
 MONTICELLO—*Monticello Machine & Tool Co.
 NEWPORT—*Ruecker, Henry
 *Crawley Book Machy. Co. (Bookbinders' Machy., etc.)
 *†Deam Gas Engine & Fdry. Co. (Gas Engines, etc.)
 *†Newport Fdry. Co.
 *Roettinger, Wm. & Son (Tools)
 OLMSTEAD—*†Wyatt Furnace Mfg. Co.
 OWENSBORO—*†Guenther-Wright Machine Co.
 *Hill Wagon & Machine Works Co.
 *†Kentucky Carriage & Implement Co. (Agrl. Impls., etc.)
 *Kentucky Electrical Co. (Dynamometers & Motors)
 *†Lees Machine Works (Machinery)
 *Owensboro Hydrant Co. (Hydrants, etc.)
 *Owensboro Shovel & Tool Co.
 *†Southern Foundry Co. (Castings & Bldrs., Iron Work, etc.)
 *West End Machine Works
 PADUCAH—*†Jackson Fdy. & Machine Co. (Iron Fdrs. & Machinists)
 *†Shelton Bros. (Iron Fdry. & Machinists)
 RUSSELLVILLE—*Ryan, Thos. F.
 SHELBYVILLE—*Wayne & Crapster (Machinists)
 WINCHESTER—*Conway, J. P.
 *†Hagans Gas Engines & Mfg. Co. (Gas Engines, etc.)

LOUISIANA.

ABBEVILLE—*Ritter, Jos. F.
 ALEXANDRIA—*†Alexandria Iron Works.
 *†Enterprise Iron Works (Inc.)
 BATON ROUGE—*Hogue, S. D. Co. (Ltd.)
 BERWICK—*†Berwick Iron Works.
 *†Watkins, Chas. & Bro.
 BREAUX BRIDGE—*†Teche Iron Works.
 CROWLEY—*†Acadia Iron Works (Ltd.)
 *†Black Bros. Implement Co. (Ltd.) (Agrl. Impls., etc.)
 *†Champion Iron Works Co. (Fdrs. & Machinists)
 DE RIDDER—*De Ridder Foundry & Repair Co. (Ltd.)
 DONALDSONVILLE—*†Allen, F. H.
 *†Donaldsonville Iron Works
 FRANKLIN—*†Le Blanc, C. J., & Co.
 HAMMOND—*Way, A. L.
 HOUMA—*Caillouet & Bergeron
 JEANERETTE—*†Moresi, Antoine (Iron Fdry, etc.)
 JENNINGS—*†Oil City Iron Works (Ltd.)

*†Oil City Iron Works (Ltd.)
 *†United Iron Works (Ltd.)
 LAKE CHARLES—*Michael, James.
 *†Reiser Machine Shop (Ltd.), (Fdry. & Machinist)
 LE COMPTE—*Wiley, E. W., Jr.
 LEESVILLE—*†Vernon Iron Works (Inc.)
 MONROE—*†Sanders, J. G. (Iron & Brass Fdy & Machinists)
 MORGAN CITY—*†Johnston & Hamilton.
 *Thornton, J. A.
 NEW IBERIA—*Bernard, A. M.
 *†Simon, Geo. (Fdy & Machinist)
 NEW ORLEANS—*†Baneroff, Ross & Sinclair Co. (Ltd.) (Saw Mill Machy, etc.)
 *†Bedell Structural Steel & Fdry Co. Magnolia, Erato & Clare (Structural Steel Work, etc.)
 *†Blackadder & Fisher
 *Boland Mch'y. & Mfg. Co. (Ltd.) (Rice & Carcaud & Storey. Sugar Machinery)
 *†Connell, J. D. Iron Works.
 *†Johnson Iron Works (Ltd.)
 *†Killeen's Foundry (Iron Foundry)
 *Koretke, F. H. Brass & Mfg. Co. (Brass Fdrs & Finishers)
 *Kron, Geo. F. & Bro. (Scales)
 *McDonald, Jno. S.
 *Manufacturers' Machinery Co.
 *Moore, Charlotte (Brass Specialties, etc.)
 *†Murphy, Jno. H., Iron Works (Sugar Machinery & Castings)
 *Orleans Metal Bed Co. (Iron Bedsteads, etc.)
 *†Pelican Iron Works.
 *†Schwartz Foundry Co. (Ltd.) (Iron Fdrs)
 *†Southern Marine Works
 *†Standard Pulley Mfg. Co.
 *Sutton, Jas. P.
 *Sutton, Jos. (Iron Founders, etc.)
 *Swoop, Julian M.
 *Tufts Iron Works, Van Horn & Oliver sts
 *†Whitney Iron Works Co. (Fdrs & Machinists, Sugar Machy, etc.)
 *†Wilson, Wm. K.
 PLACQUEMINE—*Nadler, Henry
 RAYNE—*Stamm, Scheele & Co.
 RUSTON—*†Ruston Fdry. & Machine Shop (Ltd.)
 SHREVEPORT—*†Henderson, W. K., Iron Works & Supply Co. (Saw Mill Machy, Castings, etc.)
 *McKittrick Engineering Co.
 *Means, J. L. Machinery Co. (Cotton Plantation Machy, etc.)
 *White, Benj. S. (Iron Foundry)
 *Williams-Web Co. (Automatic Press Feeders, etc.)
 THIBODAUX—*†Jeffries Bros. (Iron Fdry.)
 *Keefe, Lawrence.
 WASHINGTON—*McNicol, Leroy
 WELSH—*Armstrong Machine & Well Works
 *Van Ness, M. B. Co. (Inc.)
 *Villien, Jos.
 WINNFIELD—Winnfield Iron Works.

MAINE.

AUBURN—*†Androscooggin Foundry Co.
 *Crawshaw, J. M.
 *Ray, Wm. A.
 *Reynolds & Oliver
 AUGUSTA—*Fifield Bros. (Gasoline Engines, etc.)
 Gay, Geo. E. (Machinist & Engineer)
 *Skehan, W. J., & Co.
 BANGOR—*†Noyes & Nutter Mfg Co (Stoves & Castings)
 *†Penobscot Machinery Co. & Castings)
 *Purinton, Andrew B.
 *†Union Iron Works (Iron & Brass Fdrs. & Paper & Pulp Mill & Wood Working.
 *†Wood & Bishop Co (Stoves, etc.) etc.)
 BATH—*†Bath Automobile & Gas Engine Co. (Automobiles, Gas Engines, etc.)
 *†Bath Iron Works (Ship Builders & Marine Engines & Brass Fdrs.)
 *†Dean-Allan Mfg. Co. (Brass Fdrs, etc.)
 *†Hyde Windlass Co (Windlasses, etc.)
 *†Jackson, J. S. & Son (Roller Bushings, Automatic Lathe Work, etc.)
 *†Torrey Roller Bushing Works (Roller Bearing Bushings, Iron & Brass Castgs.)
 *Watson, Frye & Co. (Inc.) (Pulp Mill Castings, Plug Cock & Valves)
 BELFAST—*†Duplex Roller Bushing Co.
 BETHEL—*†Herrick Bros.
 BIDDEFORD—*†Saco & Pettie Machine Shops (Cotton Machy). See Newton Upper Falls, Mass.
 BOOTHBAY HARBOR—*Fuller, R. H. Co.
 *Thurston, H. T.
 BRIDGTON—*Bridgton Machine & Lumber Co.
 *Halkett, J. H. (Machinist)

BRUNSWICK—†Goddard, Silas & Son (Plows,
*Hunter & Hopkins
*Whitney R S (Machst)
BUCKFIELD—*Damon Arlington (Machst)
CALAIS—*Elliott Machine Co.
†McCullough & Tait (Fdry)
CAMDEN—*†Camden Anchor-Rockland Ma-
chine Co. (Anchors & Gasoline Engines)
*Barstow, Chas. M. (Machst.)
*Howe W C (Machst)
*†Knowlton Bros. (Brass & Iron Fdrs. &
Machinists)

CARIBOU—†Getchell, J. S. & Son
CORINNA—*†Burrill, H. L.
DEXTER—*†Fay & Scott (Machine Tools &
Iron & Brass Fdrs.)
EAST BOOTHBAY—*†Booth Bay Gas Engine
Co. (Gas Engines, etc.)
*†Rice, Frank L. Motor Co. (Motors, etc.)
EAST WATERFORD—*Haskell, J. B.
ELLSWORTH—*†Ellsworth Fdry & Machine
Co.

FARMINGTON—*Spinney, Herbert I. (Ma-
chinist)
*Spinney, Herbert I. (Machinist)
GARDINER—*§Newell, J. F. & Co. (Journal
Bearings & Brasses, etc.)
*Scribner, Harvey (Est. of)
HALLOWELL—*†Fuller's, Geo. Sons (Brass
& Iron Fdrs. & Machinists, Engines,
etc.)
*North Wayne Tool Co. (Scythes, Axes &
Tools, etc.)

HARRISON—*†Ricker, T. H. & Sons (Wood
Working Machinery)
HOLLIS CENTER—*Colclough, C. A. (Mchst)
HOULTON—*Cates, H. M.
*Davis, Isaac H. (Machinist)
*†Houlton Fdry. & Machine Co. (Fdrs &
Machinists)

KENNEBUNK—*Hartwell, N. W. (Machst)
*†Varnay, Geo. (Agricultural Implements &
Castings)
LEWISTON—*King, Arthur B. (Machst)
†Maxwell Chas P (Iron Fdry)
*Rand & Harvey (Machst)
*Willard Mfg. Co. (Hdw. Specialties, etc.)
LIVERMORE FALLS—*Allen, Albert (Machst)
*†Record Fdry & Machine Co.
MACHIAS—*†Sargent, Stone & Co. (Machinists)
MATTAWAMKEAG—*Wyman, Murray B.
MECHANIC FALLS—*†§Penney, J. W. & Sons
Co. (Steam Engines & Iron & Brass Fdrs.
etc.)
MILBRIDGE—*Foster, A. V. (Machst)
MILLTOWN—*McDonald, Wm & Son (Machst)
NORTH BERWICK—*†Hussey Plow Co. (Agl.
Implts., etc.)

NORWAY—*Murdock, Frank W.
OAKLAND—*Dunn Edge Tool Co. (Axes, etc.)
*Emerson-Stevens Mfg. Co. (Axes, Scythes,
etc.)

*King Axe Co. (Axes, etc.)
OLD TOWN—*†Chapman, T. M. Sons Co.
(Wood Working Machy, etc.)
ORONO—*Mansfield, Edw. & Co. (Cantdogs,
etc.)
OXFORD—*Richmond, Henry L. (Machst)

PORTLAND—*Adde & Co.
*†§Babbitt, Chas. E. (Brass & Iron Fdrs &
all kinds of Copper Work)
*Chenery, Henry L. & Co.
*Conant, R. O. Co. (Canning Machy, etc.)
*Dunn, M. E. (Machst)
†Fletcher & Crowell Co. (Iron Fdrs & Bldrs
Iron Work)
*Hayes Tool Co.
*§Knight Bros. (Brass Fdrs, etc.)
*Lang-Cobb Mfg. Co. (Canning Special-
ties, Dies & General Mchnts)
*†§Laughlin, Thos. Co (Marine Hdw. Iron,
Brass & Bronze Castings)
*Malne Electric Co. (Dynamos, Motors,
Engines, etc.)
*†§Megquier & Jones Co. (Bldrs Iron Work
& Castings)

*Mills & Gilmour (Machinists)
*Orr & Jennings (Machst)
*†§Portland Co. (Steam Engines, Paper &
Pulp Machy & Iron & Brass Fdrs, etc.)
*†Portland Stove Foundry Co. (Stoves, etc.)
*Schumacher, Gustav W.
*Smith & Langmaid
*Southworth Bros. (Printers' Machy)
*Stickney, Henry R. (Machst)
*Westcott, Reuben (Radiators, etc.)
*Winslow, Daniel & Son (Machst)
ROCKLAND—*Livingston Mfg. Co. (Stone
Working Tools)
*Shuman, I. J. (Machst)
*†§Torrey, Jos. G. & Son (Marine Hdw. &
Brass Castings)

SACO—*Gillman, A. H. (Mchst.)
SKOWHEGAN—*Allen, M. J. (Millwright, etc.)
*†Hackett & Witham (Machst. & Fdrs.)

SOUTH PARIS—*Cummings Mfg. Co.
SOUTH PORTLAND STATION—*†Marine
Hdw. & Equipment Co. (Marine Hdw.,
etc.)

SOUTH UNION—†Jones, Stephen W.

WATERVILLE—*Lombard, A. O. (Mchst)
*†Noyes Stove Co. (Stoves)
*†Webber & Philbrick (Wood Barking
Machy & Iron Fdrs)
WESTBROOK—*†Foster & Brown Co. (Mchsts.)
†Jordan, Rufus K. (Iron Fdry.)
*Knowlton Jno J (Mchst)
WEST GARLAND—*Gordon H L (Mchst)
WOODLAND—*Johnson, C. M.
YORK—*Young, Chas.

MARYLAND.

BALTIMORE—*Adt Jno B (Brewers & Mal-
sters, Tobacco Mch'y, etc.), 332 N Holliday
*†Baltimore Car-Wheel Co. (Electric Car
Trucks & Wheels), Fulton Station
*†Baltimore Foundry Co. (Machine, Struc-
tural & Ornamental Castings)
†Baltimore Malleable Iron & Steel Cast-
ing Co. (Grey Iron & Steel Castings, etc.)
Charles & Wells
*†Bartlett, Hayward & Co. (Sugar Machy.,
Iron Fdrs., etc.)
*Basshor, Thos. C. Co., 220 W Pratt
*†Bates, Jas., Sons (Elevator Builders,
Castings, etc.), Pratt & President
*†Bibb, B. C. Stove Co. (Stoves, etc.), 109
Light

§Boehm, Henry E. & Co., 207 North
*Brown, F. S. & G. L. (Presses, Dies &
Sheet Metal Tools), 20 E Fort av
*Burt Machine Co. (Canning Machy.), 226
N Holliday

†Carr Stuart, R. & Co (Iron Fdrs), Essex
& Montford av
†Caroline Iron Works (Iron Fdrs., Tower
Frames, etc.), 723 S. Caroline
†Central Foundry Co., McShane Plant,
Dundalk. (See New York)

†Chesapeake Iron Works (Builders Iron
Work & Castings), Bush & B. & O. R. R.
*Clark, Jas. Co., ft Webster
*§Coale Muffler & Safety Valve Co. (Muf-
fler Valves & Brass Fdrs., etc.), 1525
Guilford av

*†§Codd, E. J. CO. (Engines, Boilers,
Pumps & Iron & Brass Castings, etc.),
700-708 S Caroline (See adv. index, end
of book)

*Coleman, Jno. T. (Machinist, Boilers,
Steam, etc.), 422 E Saratoga
*†Detrick & Harvey Machine Co (Machine
Tools, etc.), 508 E Preston

†De Ved & Sons (Builders' Castings), 813 S
Howard
*†Dietrich Iron & Bolt Works (Jail
Guards, Bridge Rods, Plates, etc.), 344
North

*Dix Mfg Co (Door Hangers & Hdw Spe-
cialties), Holliday & Hillen
Donohue, Jno. T. & Co. (Diaphragm
Pumps, etc.), 1743 Thames
§Edro-Richardson Brass Co., 318 N Holli-
day

*Ellicott Machine Co. (Elevators, Dredging
Machy., etc.), Bush & Severn
*Fadum, Fred'k (Machinist), 408 W German
*§Farrell, Edw. P. (Brass Fdry. & Fin-
ishers), 1412 Philpot

*Fluskey, Jno. B., cor Dugan's Wharf &
Wood
*†Flynn & Emrich Co. (Iron Fdrs. & Ma-
chinists), cor Holliday & Saratoga

*Frank, E. T. & Son (Ice & Refrigerating
Machy., etc.), 642 W Pratt
*Friedenwald Bros. (Special Machy., etc.),
216 N Holliday

*Friez, Julien P. (Elec. & Meteorological
Insts., etc.), 1230 E Balto
*§Gibson & Kirk (Brass Fdrs., etc.), 517
E Montgomery

*§Gisriel, Wm. & Son (Brass Fdrs. & Metal
Goods), 1527 Guilford av
*†Greenmount Iron & Mfg. Co., 883 Gree-
mount av

*Hollingsworth, Wm. (Gas Engines, etc.),
227 N Holliday

*†Hutchinson Bros. (Stoves, Furnaces,
etc.), 116 N Howard
*Jones, Jno. T., 211 E Falls av

*Kavanagh-Ward Bros Co. (Brass Found-
ers), 7th & Gough
*Kelley, John F. (Machinist), 917 S How-
ard

*Kemp, C. M. Mfg. Co. (Gas Machines,
Cellar Drainers, etc.), 401 E Oliver
†Krug, Gustav & Son (Bldrs. Iron Work),
415 W Saratoga

*King, J. S. Machine Co., 213 North
*†Lacey, Jas. J. & Co. (Propeller Wheels,
Grey Iron Castings, etc.), 1401 Block

*†Larrabee, H. C. & Co. (Chemical Eggs,
Pyrites Furnaces, etc.)

†Levering Bros. (Sash Weights), 230
Hughes av
§Liberty Brass Works of Baltimore City
(Brass Fdrs), 305 W Lombard
*McClenahan, H. J. & Co., 613 Water
*McIntyre & Henderson (Ship Builders,
etc.), ft. Montgomery

*§McShane Bell Foundry Co. (Bell Found-
ers, etc.)
*Mackin, F. M. & Co., 509 N Spring
*MacRae, Hector C. (Electrical Storage
Batteries, etc.), 316 St. Paul
*Marine Ry. Machine & Boiler Works
(Engines, Steam Boilers, etc.), 1301
Philpot

*Marquette, Jno. N. (Fertilizer, Mach'y,
etc.), 507 S. Eden
*†Maryland Car Wheel Works (Car Wheels,
etc.), Curtis Bay

*†Maryland Steel Co. (Iron & Steel Ship
Builders), Sparrows Point
†Meiser, H. & Son (Iron Fdrs., Bldrs.
Iron Work, etc.), 210 Clay

*Mitchel, Jno. R. (Machinist), 702 S
Wash'n

*Monarch Engineering & Mfg. Co., 2935
St. Paul
†Montford Machine Casting Co., Montford
av nr Chase

*Murray, Jas. & Son (Clay Tempering &
Pulverizing Mach'y, etc.), 102 E York
*Mullen Mfg. Co., 418 S Charles

*Murrill & Keizer Co. (Light Machy, Pat-
tern & Model Work, Special Machy,
etc.), 200 N Holliday

*Myer & Moran, 327 N Holliday
*National Composite Co. (Type Setting
Machines)

*§National Supply Co. (Bolts, Nuts, Rivets,
Casters, Brass Fdrs. & Finishers, etc.)
455 North

*Noyes, Jno. B., 1522 Bank
*Page Engineering Co. (Marine Gas En-
gines), 119 E York

*†Poole Engineering & Machine Co. (Power
Transmitting, Rolling Mill Mach'y, etc.),
Woodberry Station

*Poole, Hunter & Co., 1513 Orleans
*Rau, Henry, Jr., 210 N Holliday

*§Regester's, J. Sons Co. (Brass Goods for
Steam & Water, etc.)
*Renneburg, Edw. & Son (Oyster & Fruit
Packing Machines), 1917 Aliceanna

*†§Richardson, Edro (Brass & Bell Fdy.),
316 N Holliday
*†Sackett, A. J. (Fertilizer Machy., etc.),
5th av & E 1st

*†Sadtler, J. P. B. & Co. (Heaters & Spe-
cialties), 231 Park av
*Schroeder, Eug. W., York rd nr Wood-
bourne av

*†Sexton, S. B. Stove & Mfg. Co. (Stoves,
etc.), 7 S Gay
*Shaffer Mfg. Co. (Machinists & Pattern
Makers) 309 N Calvert

*†Sheppard, Isaac A. & Co. (Furnaces,
Stoves, etc.), Eastern av & Chester (See
Phila., Pa.)

*Sinclair-Scott Co. (Canning & Agl. Machy
& Hdw. Specialties), Wells & Patapsco
*Skinner Ship Building & Dry Dock Co.
(Ship Builders, etc.)

*Slaysman & Co. (Can Makers' Machy.),
718 E Pratt

*Sloan, Frank B. & Co. (Sash, Pulleys, &
Cabinet Hardware, etc.), 208 W Saratoga

*†Smyser's, E. G. Sons Co. (See York, Pa.)
*†§South Baltimore Steel Car & Foundry Co.
(Castings of Every Description, Forgings,
Freight & Contractors' Cars & Equip-
ments & Iron & Brass Founders & Ma-
chinists) 7 W Lombard

*Spedden Ship Bldg. Co. (Ship Builders),
913 S B'way

*§Standard Mfg. Co. (Brass Fdrs. & Fin-
ishers, Plumbers' Brass Goods), 233 E
Hamburg

*Starr, B. F. Co. (Grinding Mills, etc.),
453 North

*Stebbins, Wallace & Sons, Charles & Lomb'd
*Stevenson & Co. (Can Makers' Mach'y),
601 S. Caroline

*Stevenson & Shearer, 605 Eastern av Ext.
*Towson, W. W. & Co., 1028 Hillen
†Universal Seal & Stopper Co.

*†§Weiskittle, A. & Sons (Stoves, Ranges,
Porcelain Enameled Bath Tubs, Iron &
Brass Founders), Aliceanna & Wash'n

*White & Middleton Gas Engine Co. (Gas
Engines), Charles & Winder
*Zastrow, Geo. W. (Machinist), 1408
Thames

*Zies, Chas. (Eng. & Machinist), 318 S
Fremont av

CAMBRIDGE—*Shackelford, Edgar
 CUMBERLAND—*Accurate Machinery & Mfg. Co. (Type Machy., etc.)
 †Farrin, John A.
 *McKaig, Merwin (Iron Fdry. & Machinist)
 †Maryland Foundry Co.
 †Potomac Engineering Co.
 EASTON—*Lane, Walter M.
 *Peerless Machine Co. (G. W. Wingard, Prop.)
 *Wingard, G. M. Mfg. Co.
 *Withgott, W. H. & Co.
 ELKTON—*McQuilkin, Geo. (Machinist.)
 *McQuilkin, Geo. & Son (Electrical Appliances, etc.)
 †Powers, Jas. F. Fdry. Co. (Iron Fdry.)
 ELLICOTT CITY—*Patapsco Elec. & Mfg. Co.
 EMMITTSBURG—†Fralcy Bros. (Iron Fdry.)
 FREDERICK—*Abbott, Jno. H. & Son (Machinists)
 *†Young & Robinson (Brush Mchnry, etc.)
 †Zimmerman, G. F. S. & Co. (Shutter Fasteners, etc.)
 GALENA—†Hyland, Wm. A. (Wood Printing Machines)
 GLENARM—*Hooper, Francis X.
 HAGERSTOWN—*Byers, Humrhouse Tool Co. (Quick Action Drill Chucks)
 *†Foltz, H. C. (Iron Fdry & Mchnst)
 †Hagerstown Foundry Co.
 *†Hull, D. F. & Son (Agrl Implts)
 HANCOCK—*†Hancock Fdry. & Machine Works
 LOCK—*Seavolt, J. W.
 MANCHESTER—†Shower, Wm. H. (Iron Fdry.)
 ORANGEVILLE—*†Weiskittle, A., & Son (See Baltimore)
 PERRYVILLE—*†Armstrong Stove & Mfg. Co. (Stoves, etc.)
 POCOMOKE CITY—*Elliott, G. F.
 PORT DEPOSIT—*†Bibb, B. C. Stove Co. (See Baltimore, Md.)
 SAINT MICHAELS—*Lewis, S. F. (Machinist)
 SALISBURY—*†Grier, F. A. & Son (Machinists & Fdrs.)
 *†Grier, R. D. (Machinist & Fdr.)
 SOUTH BALTIMORE—(See Baltimore)
 SPARROWS POINT—(See Baltimore)
 WESTERN PORT—†White, P. F. (Iron Fdry.)
 WESTMINSTER—*Atlantic Machine Works
 *†Haller, L. A. (Machinist & Fdr)

MASSACHUSETTS.

ABINGTON—*Buffum, H. H. Co.
 *Lanson Machine Co. (Mchnry, etc.)
 AMESBURY—Amesbury Brass & Foundry Co. (Brass, Manganese Bronze, etc., Castings)
 *Atlantic Co. (Marine Motors, etc.)
 *Pettingill Machine Co.
 *Wilson, Peter A. (Files, etc.)
 ANDOVER—*Buxton & Coleman
 ARLINGTON—*Birch, A. (Textile Machy, etc.)
 *†Jones, E. J. & Co. (Steel Balls, Forgings, etc.)
 *Safford & Co. (Hinges)
 ASHLAND—*Lombard Governor Co. (Water Wheel Governors, etc.)
 *Ray Bros. (Webb Printing Presses)
 ASSONET—*Davis, N. R. & Sons (Fire Arms, etc.)
 ATHOL—*†Athol Machine Co. (Machinists' Fine Tools, etc.)
 *§Athol Pump Co. (Pumps & Brass Castings)
 *Gerry, Geo. & Son (Textile Machy.)
 *Richardson-Oliver Co. (Hand Lathes, etc.)
 *Starrett, L. S. Co. (Machinists' Fine Tools, etc.)
 *Union Twist Drill Co. (Gear & Milling Cutters, etc.)
 ATTLEBORO—*Attleboro Electrical Mfg. Co. (Electrical Specialties, etc.)
 *†Howard & Bullough American Machine Co. (See Boston)
 *MOSSBERG, FRANK CO. (Dies, Special Mach'y & Tools). (See adv. index, end of book)
 *Wilmarth, W. D., & Co. (Hardware, etc.)
 ATTLEBORO FALLS—*Barnett, W.
 AYER—*Chandler Machine Co.
 *Chandler Planer Co. (Machine Tools)
 BARRE—*†Allen, Chas. G. Co. (Self-Opening Dies, etc.)
 BEVERLY—*†United Shoe Machinery Co. (See Boston)
 *Cape Ann Machine Co. (Special Mach'y, Naumkeag Buffing Machine Assn. etc.)
 *Scott Leather Machine Co.
 *Smith, Ira A.
 BOSTON—*American Soda Fountain Co., 278 Congress

*American Soda Fountain Co., 278 Congress
 *†§American Steam Gauge & Valve Mfrs. (Gauges, Valves, etc.), 208 Camden
 *†§American Tool & Machine Co. (Centrifugals, Brass Workers' Lathes, Brass & Iron Castings, etc.), 109 Beach
 *†Ames Flow Co. (Agl. Implts. & Machines), Faneull Hall Market
 *Ames Shovel & Tool Co., Ames Bldg.
 *§Anderson, Albert & J. M. Mfg. Co. (Electric Ry. Light & Power Mach'y & Brass Fdrs., etc.), 289 A
 *Anthony, Benj. F. & Son (Machinists), 162 Ruggles
 *Armstrong, F. A. W. & Co. (Machine Screws, etc.), 364 Atlantic av
 *§Ashton Valve Co. (Steam, Gas & Water Specialties & Brass Fdrs), 271 Franklin
 *†Atlantic Works (Ship Engine Builders), 72 Border, E. B.
 *Barr, Jno. A. & Co. (Machinists), 91 Wareham
 *§Barrett, Jas. Mfg. Co. (Plumbers' Iron & Brass Specialties), 211 Franklin
 *Barrett Bros. (Special Mach'y), 43 Haverhill
 *Bartlett, Edwin E. (Bench Planers, Arbor Presses, etc.), 364 Atlantic av
 *Bassill, Louis (Brass Finisher), 160 Portland
 *Beaudry & Co. (Power Hammers, etc.), 141 Milk
 *Bertelsen & Petersen (Steam Engines, etc.), 140 Border, E. B.
 *Blanchard Machine Co. (Fertilizers & Soap Makers, Mach'y)
 *Blount & Lovell (Gear Cutting Machinery), 100 High
 *§Boston Brass Andiron Co. (Brass Fdrs. & Finishers), 104 Utica
 *§Boston Brass Co. (Plumbers' Brass Work, Finishers & Platers), 36 Oliver
 *Boston Bridge Works (Inc.) (Traveling Structural Steel Work, etc.), 47 Winter
 *Boston Coin Machines Co., 381 Albany
 *§Boston Coupling Co. (Machinists & Brass Finishers), 156 Pearl
 *Boston Electric Co. (Elec. Specialties), 29 Harrison av Extension
 *Boston Motor Co. (Machinists), 43 Columbus av
 *Boston Printing Press & Machinery Co. (Printing Mach'y), 176 Federal
 *§Boston Steam Specialty Co. (Steam Traps, Separators, Indicators, Lubricators, etc.), 168 Congress
 *Boston Woodworking Co. (Woodworking Machinery), 63 Haverhill
 *Boston & Lockport Block Co. (Tackle Blocks, Diaphragm Pumps, Differential Hoists, etc.), 160 Commercial
 *Boylston Mfg. Co. (Shoe Machy, etc.), 183 Essex
 *Bradley Pulverizer Co. (Cement & Pulverizing Machinery), 92 State
 *Brigham, M. H. Co. (Machinist), 63 Haverhill
 *Burke, P. W., Dow & Dorchester av
 *Burrington, Chas. S. (Machinist), 603 Rutherford av, Chsn
 *Buzzell, J. G. & Co. (Boot & Shoe Machy), 102 High
 *Cahill, Michl. F. (Brass Ferrules, etc.), 1c E 1st, S. B.
 *Campbell-Bosworth Machinery Co. (Harness Machinery), 205 Lincoln
 †Carberry, Wm. H., Tremont Bldg.
 *Carpenter, Lewis A. (Machinist), 370 Atlantic av
 *Carson Trench Machine Co. (Trench & Excavating Macny, etc.), 16 Dorrance
 *Champion Buttonhole Machine Co., 10 High
 *†Chelmsford Foundry Co. (Bldrs' Iron Work & Castings), 159 Devonshire
 *†Chilson Furnace Co. (Hot Air Furnaces, Stoves & Ranges), 88 Wash'n
 *§Clark, D. W. & Co. (Brass Fdrs.), 280 W 1st, S. B.
 *Codman, F. J. & J. C. (Buff Wells, etc.), Kc E 1st, S. B.
 *†Coffin Valve Co. (Valves, Sluice Gates, etc.), Neponset
 *§CROSBY STEAM GAGE & VALVE Co. (Steam Specialties), 97 Oliver. (See adv. index, end of book)
 *Crowther, Joseph, 81 Haverhill
 †Cunningham, J. H. Co., 269 Congress
 *Dalrymple & Brissette (Machinists), 556 Atlantic av
 *†Dalton-Ingersoll Mfg. Co. (Plumbers' Brass Goods), 173 High

*§D'Este, Julian Co. (Steam & Plumbing Specialties, Brass Fdrs. & Finishers), 24 Canal
 §Duncan, Wm., 412 Border
 *†Edson Mfg. Co. (Diaphragm & Force & Lift Pumps, etc.), 255 Atlantic av
 *Electric Goods Mfg. Co. (Electrical Goods, etc.), 115 Purchase
 *Empire Laundry Machinery Co. (Laundry Mach'y). Works, Newton, Mass.
 *†Estabrook's, R. Sons (Soll Pipe & Fittings & Castings, etc.), 204 W 1st, S. B.
 *Eyelet Tool Co., 40 Lincoln
 *Fifield Shoe Machinery Co. (Shoe Machy), 53 High
 *Finch, J. H. (Brass Finisher), 96 High
 *Fitzhenry, E. L. & Co. (Yacht & Launch Engines, etc.), 49 Wash'n N
 *§Ft. Hill Bronze Mfg. Co. (Brass & Composition Fdrs), 130 Oliver
 †Foxboro Foundry Co., 19 Congress
 *Fraser Machine Co., 51 Chardon
 *Gardner & Cary (Engine Specialties), 33 Broad
 §Gibby Foundry Co. (Brass Fdr.), 96 Conductor, E. B.
 *Gilbert & Barker Mfg. Co. (See Springfield, Mass.)
 §Gilchrist, Geo. E. Co. (Brass Fdrs & Finishers), 106 High
 *Gillette Safety Razor Co. (Safety Razors), 41 W 1st
 *Gilmore Electric Co. (Elec. Bench Grinders & Elec. Lamps, etc.), 625 E 1st, S. B.
 *§Granular Metal Co. (Brass Fdrs), 77 Farnham, Rox.
 *Grant Gear Works (Gears & Pinions, etc.), 6 Portland
 *Griffiths, Wm. H. & Co. (Metal Patterns & Machine Work), 62 Sudbury
 *†Gurney Heater Mfg. Co. (Heaters, Radiators, etc.), 188 Franklin
 †Gurney, Jas. & Co. (Castings), 202 Borden
 *§Hall, Wm. & Co. (Brass Fdrs & Finishers), 82 Sudbury
 *Ham, L. M. & Co. (Cold Iron Sawing & Coping Machines, etc.), 158 Portland
 *§Hamlin & Emery Brass Co. (Brass Goods & Castings), 26 Island, Rox.
 *Hanks, H. W. & Co. (Machinists), 29 Lincoln
 *†§HAYDEN & DERBY MFG. CO., 1 Watson. Main Office: New York. (See adv. index, end of book)
 *†Hersey Mfg. Co. (Sugar & Soapmakers' Machy, Water Meters, etc.), 314 W 2d
 *†Highland Foundry Co. (Stoves, Furnaces, etc.), 1341 Columbus av
 *Highland Machine Co. (Machinists' & Pattern Makers, etc.), 56 Kemble, Rox.
 *§Hodgdon Brass Works (Brass Finishers, etc.), 421 Atlantic av
 *§Hollings, Richard & Co. (Gas Fixtures), 39 Bedford
 *Holmes, Chas. Machine Co. (Hide & Leather Working Machinery), 299 Marginal, E B
 *Holmes & Blanchard Co. (Grain, Paint & Fertilizer Machinery, etc.), 39 Washington, N
 *Holt, S. L. & Co. (Estate) (Power Transmitting & Woodworking Machy), 191 High
 *Howard & Bullough American Machine Co. (Ltd.) (Cotton Machy, etc.), 65 Franklin
 *Howe & Clauson (Machinists), 212 Summer
 *§Hunt, Harry (Brass Finisher, Dies, etc.), 97 Haverhill
 †Hunt-Spiller Mfg. Corp. (Iron Fdrs), 383 Dorchester av, S. B.
 *Isele, Ambrose W. & Son (Tools, etc.), 51 Pitts
 *Jones Mfg. Co. (Water Filters), 243 Franklin
 *Kenney, A. E. & Co. (Brass Bedsteads, *Knapp, Gardner & Co., 62 Sudbury etc.)
 †Krasser, F. & Co. (Iron Fdrs.), 31 George
 *†Laconia Car Co. Works (Electric Cars & Trucks & Malleable & Grey Iron Castings), 100 Boylston, Works, Laconia, N. H.
 *Lang, J. A. & Sons (Dies, Tools & Light Mach'y), 280 Dover
 Lawrence Pump & Engine Co. (Pumps, etc.), Lawrence, Mass.
 *Leavitt, Albert (Machinist), 133 Oliver
 †Lincoln, Geo. H. & Co. (Iron Fdrs.), foot of Alger, S. B.
 †Livermore, Homer F. (Steel & Malleable Castings), 85 Pearl
 *†Lockwood Mfg. Co. (Marine Engines,

Propeller Wheels, etc.), 61 Summer, E. B.
 *Long, J. H. Machine Co. (Machinery), 184 High
 *Lupkin, Jno. W. (Tailors' Pressing & Button Hole Machines), 38 Chardon
 *Lundin Electric & Machine Co. (Electrical Specialties), 10 Thacher
 *McCafferty, J. H. & Co. (Brass & Bronze Founders, etc.), 434 Harrison av
 *McCaul Brass Fdry Co. (Brass Fry.), 289 South
 *McGann, T. F. & Sons Co. (Brass Fdrs. & Finishers), 104 Portland
 *McLaughlin, Geo. T. Co. (Machinery Builders), 120 Fulton
 *Macalian Co. (Electric Specialties & Brass Founders), cor Foundry & Division
 *Marble, W. P. & Co. (Brass Finisher), 15 Chardon
 *Marshall, Son & Co. (Book Binders & Paper Box Mach'y), 226 Purchase, Boston, Mass.
 *Marston, J. M. & Co. (Saws, Wood Working Machinery, etc.), 226 Ruggles
 *Mason Regulator Co. (Regulators, etc.), 158 Summer
 †Mechanics Iron Fdry. Co. (Grate Bars, etc.), 38 Kimble, Rox
 *Meisel Press & Mfg. Co. (Printing Presses & Slitting & Winding Mach'y), 944 Dorchester av
 *Metcalf, J. C. Paper Box Machinery Co. (Paper Box Machy.), 102 Pearl
 *Milne, Frank, 43 Columbus av
 *Mitchell, R. & Co. (Brass Finishers), 380 Atlantic av
 *Moore, Geo. W. (Piano Hdw & Tools, etc.), 15 Chardon
 *Moore & Wyman Elevator & Machine Works, cor Granite & Richards
 *Morse, Andrew J. & Son (Fire Dept. Supplies & Brass Finishers), 221 High
 *Morrison, Angus (Machinist & Elevators, etc.), 18 Harvard pl
 *Murdock-Shaw Co. (Bronze Files, etc.), 125 Federal
 *Murray & Tregurtha Co. (Steam & Gasoline Launch Engines), 340 W 1st, S. B.
 *Nary, F. E. (Brass Finisher), 51 Chardon
 *National Machine & Tool Co. (Machy, Jigs, Tools, Dies, etc.), 253 A
 †National Steel Fdry. Co. (Steel Castings, etc.), 18 P. O. sq
 *Nevelson & Freeman Machine Co. (Tools & Light Mach'y, Dies, etc.), 352 Atlantic av
 *New Era Machinery Co. (Printing Presses), 18 Tremont
 *Nicholas & Stephenson (Machinists), 208 Summer
 *Norton, A. O. (Ratchet Screw & Track Jacks), 286 Congress
 *Nutter, Barnes & Co. (Cold Saw Cutting-Off Machines, etc.), 364 Atlantic av
 †Osgood & Witherly (Iron Fdrs), 3 Sherman, Chsn
 *Pinkham Construction Co. (Special Machinery), 414 Atlantic av
 *Pneumatic Scale Co. (Ltd.) (Automatic Machinery for Handling, Weighing & Packing, etc.), 311 Atlantic av
 *Poland Laundry Machinery Co. (Laundry Machy), 49 Kemple, Rox.
 *Radford & Larson (Dies, Tools, etc.), 102 Pearl
 *Reece Button Hole Machine Co., 502 Harrison av
 *Reynolds Machine Co. (Printers' Machinery), 311 Atlantic av
 *Riley, C. E. & Co. (Textile Machinery), 65 Franklin
 *Roberts, J. H. & Co. (Machinists), 137 Portland
 *Rogers, C. E. (Brass & Bronze Fdry), 34 Beach
 *Scrannage Bros. (Brass Fdrs. & Finishers), 77 Travers
 Seelye Mfg. Co. (Shoe Machinery), 118 South
 *Seibert Cylinder Oil Cup Co. (Lubricators, Oil Cups, etc.), 53 Oliver
 *Shawmut Machinery Co. (Shoe Machy), 82 Lincoln
 *Smith, G. W. & Iron Co. (Iron Fdrs. & Builders' Iron Works), Gerard c Island, Rox.
 *Smith & Anthony Co. (Stoves & Plumbers' Supplies), 54 Union
 *Smith & Lovett Co. (Inc.) (Builders' Castings & Machine Work), 129 Albany
 *Smith & Thayer Co. (Steam Heating Apparatus), 234 Congress

*Souther, John & Co. (Dredging Machines, etc.), 185 Summer
 †Standard Rivet Co. (Rivets, Rivet & Staple Setting Machines, etc.), 41 Lincoln
 *Star Brass Mfg. Co. (Steam Specialties & Brass Fdrs.), 108 E Dedham
 *Star Refining Co. (Brass Fdrs., Babbitt Metal, etc.), 50 State
 *STEEL CABLE ENGINEERING Co. (Elevating & Conveying Machinery), 92 State
 *Stephenson, L. & Co. (Scales), 22 Custom
 *Stone, Henrie D. (Engineer & Mchnst), 7 Sherman, Chsn
 †Strater, Herman & Sons (Brass Fdrs & Finishers, Bar Fixtures, etc.), 74 Sudbury
 *Stubbs, S. K. (Machine Knives, etc.), 30 Kemple
 *Sturtevant Mill Co. (Cement & Pulverizing Machy), Clayton c Park, Dor.
 *Trimont Mfg. Co. (Tools, etc.), Amory av, Rox.
 *Tufts, Nathaniel, Meter Co. (Gas Meters), 455 Commercial
 *Union Scale Co. (Automatic Scales, etc.)
 *Union Brass Works Co. (Brass Fdrs. & Finishers), 7 Sherman, Chsn
 *Underhill Bros. (Edge Tools)
 *United Printing Machinery Co. (Photo-Engraving Machy, etc.), 246 Summer
 †United Shoe Machinery Co. (Shoe Machinery), 205 Lincoln
 *Universal Winding Co. (Textile Machy), 95 South
 *Wade, Walter H. (Punches, Dies, etc.), 133 Oliver
 *Walker, G. A. Machine Co. (Bench Vises, etc.), 51 Chardon
 †Walker & Pratt Mfg. Co. (Stoves, Furnaces, Radiators, Cooking Apparatus, etc.), 33 Union
 †Walworth Mfg. Co. (Pipe Cutting & Threading Machines, Stocks & Dies, & Iron & Brass Fdrs, etc.), 132 Federal
 *Welch, T. F. & Co. (Gears & Specialties), 55 Sudbury
 *Whitney, Frank E., 65 Sudbury
 †Whittler Machine Co. (Elevators, Iron Fdrs., etc.), 53 State
 *Wold Machine Co. (Machinists), 14 L. S. B.
 †Wollaston Foundry Co. (Machy, Piano Plate & Light Castings), 185 Summer.
 *Woods, S. A. Machine Co. (Woodworking Machy, etc.), Dorst st, S. B.
 *Wyke, John & Co. (Machinists' Tools, etc.), 898 Saratoga, E. B.
 BRAINTREE—*Dow Portable Electric Co. Spark Plugs, etc.)
 BRIDGEWATER—*Continental Gin Co. (Cotton Gins, etc.)
 †Perkins, Henry Co. (Iron Fdrs. & Wire Nail Machy.)
 †Stanley Works (See New Britain, Conn.)
 BROCKTON—*Postock, Thos. & Sons (Machinists)
 *Brockton Die Co.
 *Donnelly, J. F. & Co.
 *Independent Die Co.
 *Klmball Bros. & Sprague (Nail Mill & Tack Machy, etc.)
 *Knight, Geo. & Co. (Machinists)
 *Pickard Bros. (Machinists)
 *Scott, Geo. V. Co. (Machinists)
 *Tuck Mfg. Co. (Shoe Knives, etc.)
 †United Shoe Machinery Co. (Shoe Machy), see Boston, Mass.
 BROOKLINE—*Holtzer-Cabot Electric Co. (Electric Machy. & Specialties)
 CAMBRIDGE—*Barbour-Stockwell Co. (Street Railway Specialties & Castings)
 *Blanchard Machine Co.
 *Boston Woven Hose & Rubber Co. (Hose Couplings, Nozzles, etc.)
 *Boston Bridge Works (Inc.). (See Boston)
 *Boston Tool Co. (Tools, etc.)
 †Broadway Iron Foundry Co. (Iron Fdrs.)
 *Bullock, O. S. Machine Co. (Machinists)
 †Chelmsford Foundry Co. (see Boston)
 *Clark & Mills Elec. Co. (Electric Specialties), see Boston
 *Davis, F. H. & Co. (See Boston, Mass.)
 *Fleid, Walter W. (Hoisting Engines, etc.)
 *Harvard Marine & Auto Co. (Engines, etc.)
 *Hayden, Geo. W. (Brass Fdry.)
 *Kanally, M. E. Co. (Door Hangers, etc.)
 *MEAD-MORRISON MFG. CO. (Hoisting & Conveying Machinery). (See adv. index, end of book)
 †Roberts Iron Works Co. (Fdrs., etc.)
 *Roberts, Jas. H. & Co. (See Boston, Mass.)
 †Riverside Boiler Works

*Seelye Mfg. Co. (Shoe Machy., etc.)
 *Shaw, Hamlin J.
 *Simplex Electric Heating Co. (See Boston, Mass.)
 CANTON—*Kinsley Iron & Machine Co. (Axles, Jacks, Vises, Mandrels, Castings, etc.)
 CHELSEA—*Griffin Wheel Co. (Car Wheels) (See Chicago, Ill.)
 *International Heater Co. (of Utica, N. Y.)
 *Lovewell-Henrici Co. (Laundry Machy.)
 †Magee Furnace Co. (see Boston)
 *Newark Faucet Co. (Brewers' Machy & Supplies)
 †Snow, W. A. Iron Works (Stable Fixtures & Ornamental Iron Works, etc.)
 CHESHIRE—*Colt, Samuel G.
 CHICOPEE—*Ames Sword Co.
 †Buckley, Jas. C. (Bronze Fdr)
 *Massachusetts Ball & Machine Co.
 *Mosman, M. H. (Bronze Fdr.)
 CHICOPEE FALLS—*Belcher & Taylor Agricultural Tool Co. (Agrl. Impls. & Tools)
 *Lamb Knitting Machinery Co. (Textile)
 *Page-Storms Drop Forge Co. (Machy.)
 *Stevens, J. Arms & Tool Co. (Fire Arms & Machine Tools, etc.)
 CLINTON—*Clinton Foundry Co. (Machinists' Iron & Brass Castings for Builders & Machinery)
 CONCORD—*Hancock, W. C.
 DALTON—*Jordan, G. J. & Son (Machinists)
 DANVERS—*Nightingale, J. Ellis
 *Union Leather Measuring Machine Co.
 DEDHAM—*Shatswell, H. K. & Co. (Machinists & Power Launches)
 EAST BRIDGEWATER—*Carver Cotton Gin Co. (Cotton Gins, etc.)
 †Old Colony Foundry Co. (Iron Fdrs.)
 EAST BRIMFIELD—*Snell Mfg. Co. (Ship Augers, etc.)
 EAST DOUGLASS—*American Axe & Tool Co. (Axes, Edge Tools, etc.)
 EASTON—†Belcher Malleable Iron Co. (Malleable Iron & Steel Castings)
 EAST TEMPLETON—Bay State Metal Wheel Co.
 EVERETT—*Bent, G. W. & Co. (Iron & Brass Bedsteads)
 *Blount, J. G. & Co. (Machine Tools)
 †Massachusetts Steel Casting Co. (Steel Castings, etc.)
 †New England Structural Co. (Builders' Iron & Steel Work)
 *Porter, Henry K. (Bolt Clippers, etc.)
 *Waters Governor Co. (Governors, Valves, etc.)
 FAIRHAVEN—*Fairhaven Iron Foundry Co. (Iron Fdrs. & Steam Motors, etc.)
 FALL RIVER—*Alpha Motor & Machine Co.
 *Bates, Geo. A. & Son (Machinists)
 *Belcher Motor Co. (Gasoline Engines, Models, etc.)
 *Covel Machine Co. (Machinists)
 *Creighton, Thos. J. Co. (Brass Fdrs.)
 †Fall River Fdry. & Machine Co. (Iron & Brass Castings & Cotton Machy.)
 *Fall River Steam & Gas Pipe Co. (Machinists, etc.)
 *Fyans, Fraser & Blackway Co.
 *Kay, H. E. (Est. of) (Lathes, Chucks, etc.)
 †Kilburn, Lincoln & Co. (Textile Machy., Looms & Water Wheels, etc.)
 †Mechanics' Foundry & Machine Co. (Iron & Brass Fdrs. & Machinists)
 *Shea Bros. (Machinists)
 *Thurston, A. G. & Son (Machinists)
 FISKDALE—*Snell Mfg. Co. (Augurs, Bits, Countersinks, Nails, etc.)
 FITCHBURG—*Bath Grinder Co. (Emery Grinding Machy)
 *Brown Bag Filling Machine Co. (Paper Bag & Envelope Machines, etc.)
 *Brown, C. H. Engine Co. (Engines, etc.)
 *Cowdrey, C. H. Machine Works (Woodworking & Special Machy)
 *Deane, Herbert C. (Special Machy, etc.)
 †Fitchburg Machine Work (Machine Tools, etc.)
 *Fitchburg Steam Engine Co. (Engines, etc.)
 †Goodnow, L. H. Foundry Co. (Iron Fdrs, Heavy Fly Wheels, Engine or Machine Castings)
 †HARDY, WM. A. & SONS CO. (Brass & Bronze Castings, Screen & Suction Plates, etc.). (See adv. index, end of book)
 *Henneman Coffee Roaster Co. (Coffee Roasting Machy)
 †Johnson's, Iver Arms & Cycle Works (Fire Arms, Bicycles, etc.)
 †Perault, Moses J. (Castings, Fly Wheels, Pulleys, etc.)

*†Putnam Machine Co. (Machine Tools, Woodworking Machy, Steam Engines, Brass Fdrs, etc.)
 *Sawyer Tool Mfg. Co. (Tools, etc.)
 *Simonds File Co. (Files, etc.)
 *Simonds Mfg. Co. (Saws, Machine Knives, etc.)
 *Thomson, Alex. (Boiler Makers' Tools)
 *Tyrrell, Harlan P.
 *Union Foundry Co.
 *†Union Machine Co. (Paper & Pulp Mill Machinery & Iron Fdrs)
 *§Union Screen Plate Co. (Brass Fdrs, Screen & Suction Plates, etc.)
 *Wachusett Machine Co. (Woodworking Machinery)
 *Waymouth, A. D. & Co. (Variety Wood-Turning Lathe)
 §Welch, E. J. & Co. (Brass Fdrs.)
 *Wilder, Chas. W. (Wood-Turning Lathes, etc.)
 *Wilder, Levi (Lathes, etc.)
 FLORENCE—*†Florence Co. (Oil Stoves, etc.)
 *†Norwood Engineering Co. (Iron Fdrs. & Machinists, Fire Hydrants, Water Fittings for Mills, etc.)
 FOXBORO—†Foxboro Foundry Co.
 *†SCHAEFFER & BUDENBERG Mfg. Co. (Electrical Specialties, Steam Gauges, etc.). (See adv. index, end of book)
 FRANKLIN—*Golding Mfg. Co. (Printing Machinery)
 *Rose, Jas. F.
 GARDNER—*Alzinger, Napoleon
 *Bancroft & Barnard (Machy.)
 *Central Oil & Gas Stove Co. (Gas & Oil Stoves & Heaters)
 *Gardner Machine Co.
 *Gardner Machine Works (E. N. & W. H. Hobby, Props.) (Chair Machy, etc.)
 †§General Foundry Co.
 *McKnight, L. G. & Son (Chair & Woodworking Machy)
 *Sawin, Edw. H. (Special & Chair Machy)
 *Simplex Time Recorder Co. (Time Recorders)
 GLOUCESTER—*†Cape Ann Anchor Works
 *Perkins Launch & Motor Co.
 †Reed, Geo. A. & Son
 *Richardson's, N. Sons Mfg. Co.
 *Stoddard, Adam P. & Co. (Machinists)
 GREENFIELD—*American Tap & Die Co. (Taps, Dies, etc.)
 *Conant & Donelson Co. (Screw Cutting Tools, etc.)
 *Goodell Mfg. Co. (Machinists' Small Tools, etc.)
 *Goodell-Pratt Co. (Drills, Hack Saws, etc.)
 *Greenfield Machine Co. (Machine Tool Grinders)
 *Horton, Jas. A. (Mailing Machines)
 *Massachusetts Tool Co. (Surface Gauges, Micrometers, etc.)
 †Noyes, B. B. & Co. (Iron Fdry.)
 *Reese, E. F. Co. (Taps, Dies, Bolt Cutters, etc.)
 *Smart, A. J. Mfg. Co. (Taps & Dies)
 *WELLS BROS. CO. (Machinists' Fine Tools, etc.) (See adv. index, end of book)
 *Wells, F. E. & Son Co. (Pipe Tools, etc.)
 *†Wiley & Russell Mfg. Co. (Machine Tools, etc.)
 †Wing, Chauncey (Iron Fdry, Pattern Works, etc.)
 HARVARD—*Hildreth Bros. (Kindling Wood Machy., etc.)
 HATFIELD—*Porter Machine Works (Lathes, etc.)
 *Shattuck, C. S. (Fire Arms, Hammerless, etc.)
 HAVERHILL—*Allen Machine Co. (Shoe Machinery)
 *Beckett & Hammond Machine Co.
 *Briggs Belmar Edge Tool Co.
 *Busfield, Jas. (Machinist)
 *Eureka Machine Co. (Machinists)
 *Haverhill Fire Appliance Co.
 HAYDENVILLE—*§Bay State Brass Co. (Plumbers' Brass Goods)
 *§Haydenville Co. (Brass & Iron Goods for Water, Steam & Gas)
 HOLLISTON—*Wilder, Sidney & Co. (Pumps, etc.), Washington st
 HOLBROOK—*Collins Axe Co. (Edge Tools, etc.)
 *Ford Auger Bit Co. (Bits, etc.)
 HOLYOKE—*Cahill, Thaddeus (Electrical Instruments, etc.)
 *†COBURN TROLLEY TRACK MFG. Co. (See adv. index, end of book)
 *†Dean Steam Pump Co. (See International Steam Pump Co., New York City)
 †Harman & Derichs (Iron Fdrs.)
 §Higgins & Co. (Composition, Brass, Aluminum, Aluminum Bronze, Phosphor Bronze Castings, etc.)

*Holyoke Bar Co. (Machine Knives, etc.)
 *†Holyoke Machine Co. (Paper & Pulp Mill, Cotton Mill, Power Transmitting & Wood Barking Machy)
 *†Holyoke Valve & Hydrant Co. (Valves, Hydrants, etc.)
 *Jolly, J. & W. (Paper & Pulp Mill Machinery, etc.)
 *Judson & Williams (Screen Plates, etc.)
 *Koegel, Chas. & Son (Wire Spooling Machines, etc.)
 *†Perkins, B. F. & Son (Paper & Pulp Mill Machy.)
 HOPEDALE—*†Draper Co. (Textile Machy, Looms, etc.)
 *Westcott, A. W. (Spindles, etc.)
 HOPKINTON—*Fyreberg, Andrew & Sons (Fire Arms)
 HUDSON—*LAPOINTE MACHINE TOOL Co. (Keyseat Broaching Machines, Adjustable Reamers, Toolmakers, etc.) (See adv. index, end of book)
 *Tower Bros. (Machinists)
 *Woodward Machine Co. (Machinists)
 HYDE PARK—*†American Tool & Machine Co. (See Boston)
 *†Becker-Brainard Milling Machine Co. (Machine Tools, etc.)
 †New England Steel Casting Co.
 *†§Sturtevant, B. F. Co. (Blowers, Engines, Generating Sets, etc.)
 *Robinson, John T. Co. (Book Binder, Card Cutting & Paper Box Machy.)
 INDIAN ORCHARD—*†Chapman Valve Mfg. Co. (Valves, Hydrants, Water Works Supplies, etc.)
 *Hough Cash Recorder Co.
 *Metallic Drawing Roll Co. (Textile Machy, etc.)
 INTERLAKEN—*Barker, Benj. F.
 LAWRENCE—*Co-Operative File Co. (Files, etc.)
 †Davis Foundry Co. (Iron Fdrs.)
 *Dillon Machine Co. (Paper Mill Machy.)
 *§Emerson Mfg. Co. (Paper & Pulp Mill)
 §Fallon, T. F. & Co. (Machy.)
 *Hamblet, Geo. W. (Paper Mill Machy.)
 †Hart, W. R.
 *†Horne, J. H. & Sons Co. (Paper Mill Machy., etc.)
 *†Lawrence Machine Co. (Engines, Pumps, etc.)
 *†Lawrence Pump & Engine Co. (Pumps, etc.)
 *McCabe, E. & Co. (Machinists)
 *McCaffrey, John (Machinist & Loose Pulleys, etc.)
 †Merrimack Iron Foundry
 *Mills Machine Co. (Machinists)
 †Regan & Donovan
 *Sprague, L. Co. (Bobbins, etc.)
 *Stanley Co. (Shoe Machy., etc.)
 *§Watts Regulator Co. (Machinists & Brass Finishers)
 LEE—*†Clark, H. C. & Son Machine Co. (Paper Mill Machinery, etc.)
 LEEDS—Northampton Emery Wheel Co. (Emery Wheels & Grinding & Polishing Machy.)
 LEOMINSTER—*Cook, F. H. & Co. (Comb & Hairpin Machy.)
 Grimes & Harris (Button Machy.)
 *Smith, A. A. (Machinist)
 *Stowell, J. A. Co. (Saw Benches, Buzz Planers, Polka Machines, etc.)
 LEXINGTON—*§Jefferson Union Co. (Brass Fdrs., Flange Couplings, Pipe Unions, etc.)
 LOWELL—*American Mason Safety Tread Co.
 *Bagshaw, W. H. (Estate) (Textile Machy., etc.)
 *Barker, H. R. Mfg. Co. (Machinists)
 *Bennett Bros. (Windmills, Gasoline Engines, etc.)
 *Cady, Geo. L. & Sons (Machine Tools, Book Trimming Machines, etc.)
 *Carey, W. W. Co. (Woodworking Machy.)
 †City Iron Foundry
 *Dennis, John & Co. (Textile Machy.)
 *Dodge, Chas. S. (Textile Machy., Pick-ers, etc.)
 †Doherty Bros. (Iron Fdrs.)
 †§Eagle Foundry Co. (Iron & Brass Fdrs.)
 *Entwhistle, T. C. Co. (Textile Machy.)
 *Fifield, Geo. W. (Heavy Lathes, etc.)
 *Gee, Chas. E. (Machinist)
 *Hope, Wm. A. & Co. (Milled Screws, etc.)
 *†Kitson Machine Shop (Special Machy.)
 *Knapp, Arthur P.
 *Knowles Scale Works (Scales & Weighing Machines)
 *Lahue, M. M. & Co.
 *Lovejoy, Daniel & Son (Machine Knives, etc.)
 *†Lowell Machine Shop (Cotton Machy., etc.)
 *Lowell Scale Co.
 *Lowell Shuttle Co.
 *McBride Machine Co. (Wool Machy., etc.)
 *Middlesex Machine Co. (Machinists)
 *New England Motor Co. (Dynamos & Motors)
 †§Nichols, Albert F. (Iron & Brass Fdrs.)

*Parker, Frank
 *Parsons & Mealey (Die & Stencil Cutters)
 *Perkins, Francis S. Co. (Lathes, etc.)
 *†§Pevey Bros. (Iron, Brass, Comp. White Metal Fdrs., Wool Washing Machines, etc.)
 *Stott, Sam'l E. & T. (Machine Wool Combs & Textile Machy)
 *Turner, John D. (Jack Screws)
 *Turner, J. S. Mfg. Co. (Worsted Roll Covering Machines)
 *Wilson, D. H. & Co. (Textile Machy., etc.)
 *Wrigley, Wm. & Co.
 §Union Iron Fdry. Co.
 §Union Brass Fdry. Co. (Brass & Composition Castings)
 *U. S. Cartridge Co.
 *Upton & Gilman
 LYNN—*Allen Machine Co. (See Haverhill, Boston Machine Works Mass.)
 †Central Foundry Co.
 *Bresnahan Shoe Machinery Co. (Shoe Machinery)
 *Cilley, W. W. & Co. (Shoe Stitchers)
 *Dwyer Machine Co.
 *Ellison, Albert W. (Leather Machy.)
 *Embree, W. F. & Co. (Machinists)
 *Essex Machine Co. (Machinists)
 *Essex Engine Co.
 *Gallagher, Bernard,
 *Hart, T. F.
 †Hayes Foundry Co. (Machinery, Hydraulic-Electrical Castings)
 *Hemingway, John & Son (Woodworking Machinery)
 *Hemingway Machine Co. (Leather Machy.)
 *Hemingway, Jno. (Woodworking Machy.)
 *Holmes, E. M. (Machinist)
 *Knox, Joseph E. (Cutting Dies, etc.)
 †Lynn Stall Co. (Stable Fittings, etc.)
 *Osborne, J. W. & Co. (Shoe Stitchers)
 *Robinson, Henry (Est of) (Dies, etc.)
 †Smith Iron Foundry, Inc. (All kinds of Light and Heavy Castings)
 *Stanbon, Chas. P. & Co. (Shoe Machy.)
 *Quarmby & Hilliker (Shoe Machy., etc.)
 *Stephenson, Chas. H. (Plumbers' Specialties)
 *Stewart Bros. (Shoe Machy) ties
 *Thomson Electric Welding Co. (Elec. Welding Apparatus)
 *Treen-Sawyer Shoe Machy Co. (Shoe Stitching Machy)
 §United Copper Foundry Co. (Copper Castings, etc.)
 *Young, W. J. Machinery Co.
 MALDEN—*Beicher, Edward B.
 MANSFIELD—*Bay State Tap & Die Co. (Taps, Dies, etc.)
 *Card, S. W. Mfg. Co. (Dies, Taps, Reamers, etc.)
 *†Chilson Furnace Co. (Hot Air Furnaces, Stoves & Ranges). (See Boston)
 †Shields Foundry Co. (Iron Fdrs.)
 MARLBORO—*Marlboro Electric Machine & Lamp Co.
 †Parsons, Henry & Son (Special Machy., etc.)
 MEDFORD—*Scott & Sons Co. (Chucks, etc.)
 *Wellman Sole Cutting Machine Co.
 MERRIMAC—*§Murphy, George W. J. Co.
 METHUEN—*†Sanborn Furnace Co. (Hot Air Furnaces, etc.)
 MIDDLEBORO—†Le Baron Foundry Co. (Iron Fdrs.)
 MILFORD—*Damon, J. F. (Machinist)
 *Edmands, A. B. (Paper Box Machinery)
 †Milford Iron Foundry (Iron Fdrs.)
 MILLBURY—*Buck Bros. (Edge Tools, etc.)
 *Buck, Chas., Edge Tool Co. (Edge Tools, etc.)
 *Humphreys, Edw. J. (Machinist)
 *†§Worcester Steel Foundry Co. (Steel & Brass Castings & Rail Bonds)
 MILLERS FALLS—*†Millers Falls Co. (Machinists' Fine Tools & Hardware Specialties, etc.)
 NATICK—*Brewer, A. G. (Machinist)
 NEW BEDFORD—*Babbitt Wood & Co.
 *Baker Machine Co. (Machinists)
 *Morse Twist Drill & Machine Co. (Twist Drills, etc.)
 *New Bedford Boiler & Machine Co. (Valves & Machinists, etc.)
 *†New Bedford Foundry & Machine Co.
 *New Bedford Shuttle Co. (See Boston, Rankin & Arnold Mass.)
 †Swift, Augustus
 *Tripp, Frank S.
 NEWBURYPORT—*†Russell, Albert & Sons Co. (Iron Fdrs. & Machinists)
 NEWTON—*Empire Laundry Machinery Co. (Laundry Machinery), see Boston, Mass.
 NEWTON CENTER—*Evans Friction Cone Co.
 *Gooch, Arthur M. (Pulleys, etc.)

NEWTON UPPER FALLS—*Gamewill Fire Alarm Telegraph Co.
 *†Saco & Pettie Machine Shops (Textile Machinery)
 NORFOLK DOWNS—*Boston Gear Works (Gears & Gear Cutting, etc.)
 NORTH ADAMS—*Arnold Print Works
 *†Hunter, Jas. Machine Co. (Power Transmitting & Textile Machy.)
 *Stewart, E. C. (Machinist)
 NORTHAMPTON—*Herrick, Chas. E. (Mchst.)
 NORTH ANDOVER—*†Davis & Furber Machine Co. (Textile Machy.)
 NORTHBORO—*Whiting Mfg. Co. (Cash Registers, etc.)
 NORTH DIGHTON—*†North Dighton Co-Operative Stove Co. (Stoves)
 NORTH CHELMSFORD—*†Chelmsford Fdry. Co.
 NORTHFIELD—*Keet, Newton W.
 *North Chelmsford Machine & Supply Co.
 NORWOOD—†Plimpton, J. E. & Co. (Iron Fdrs)
 OAKHAM—†Dean, Walter R. (Furnaces, etc.)
 ORANGE—*†Chase Turbine Mfg. Co. (Machinists, Millwrights & Fdrs.)
 *†Hunt, Rodney, Machine Co. (Power Transmitting & Textile Machy)
 *Leavitt Machine Co. (Valve Re-Seating Machy.)
 *†New Home Sewing Machine Co. (Sewing Machines)
 OTTER RIVER—*†Lord, Stone & Co. (Stoves, etc.)
 PALMER—†Francis, Ralph B. (Iron Fdry.)
 PEABODY—*Boyle, John Machine Co. (Machinists)
 *†Corwin Mfg. Co. (Leather Machy, etc.)
 *†Marine Hardware Co. (Marine Hdw., etc.)
 *Newell & Knowlton, Inc. (Grease Extractors, etc.)
 *†Peabody, Leather Machy Co. (Leather Machy, etc.)
 *†Turner Tanning Machinery Co. (Hide & Leather Working Machinery)
 PEPPERELL—*Blake, H. & Son (Machinists)
 PITTSFIELD—*†Chapel, A. M. Machine Co.
 *†Jones, E. D. & Sons Co. (Paper Mill & Power Transmitting Machy.)
 *†Pittsfield Spark Coil Co. (Colls, Dynamos, etc.)
 *†Stanley, G. I. Electric Mfg. Co. (Generators, Elec. Machinery, etc.)
 *Triumph Voting Machine Co.
 PLYMOUTH—*Mixer, J. W., Saw Tool Co. (Saws, Gummers, Swages, etc.)
 *†Plymouth Foundry (Gas & Oil Stoves, etc.)
 Rodgers Bros. (Machinists), (Stove Polishing Machines)
 QUINCY—*Bassett, Elmer C. (Textile Machy)
 *†Fore River Ship Building Co. (Iron & Steel Ships & Marine Engines, etc.)
 *Lizotte, Jos. & Co. (Gas & Gasoline Engines)
 READVILLE—*†Stafford Co. (Textile Weaving Machinery, etc.)
 REVERE—*Revere Drop Forge Co.
 ROCHDALE—*Hankey, A. & Co. (Knives, etc.)
 ROCKLAND—*Arnold, H. H.
 SAGAMORE—*Keith Car & Mfg. Co. (Car Mfrs.)
 SALEM—*Atwood & Morrill (Steam Specialties)
 *†Central Iron Foundry Co.
 *Dinsmore Mfg. Co. (Textile Machy.)
 *†Eagle Iron Foundry (Inc.)
 *Goodsell, Zina (Machinist)
 *Lee, E. C. (Machinist)
 *†Locke Regulator Co. (Steam Specialties)
 *Martin, Wm. F. (Leather Finishing Machines)
 *Patten, Paul B. (Motors, Car Lifts, etc.)
 *Rood, John (Gasoline Engines, etc.)
 *Salem Brass Foundry (Brass Fdrs.)
 *SALEM ELEVATOR WORKS (Elevators, etc.) (See adv. index, end of book)
 *†Salem Iron Foundry (Inc.)
 *Spencer Regulator Co. (Brass Finishers, Regulators, etc.)
 *†Valley Falls Iron Foundry
 *Waters, Andrew S.
 SALISBURY—*Weare, Samuel W.
 SAUGUS—*Bryer, S. G. (Rock Drills)
 SAXONVILLE—*Saxonville Mills (Woolen Mfrs., Repair Shops)
 SHELBURNE FALLS—*Ducharmes & Co. (Small Tools, etc.)
 *Goodell Tool Co. (Small Tools, etc.)
 *Mayhew, H. H. Co. (Small Tools, etc.)
 SHREWSBURY—*Bement & Gaskill
 SOMERSET—*†Someset Stove Foundry Co. (Stoves)

SOMERVILLE—*Berry, Charles E.
 *Birch Bros. (Textile Machy.)
 *Forg, Peter (Machinist & Machy.)
 *Roberts Mfg. Co. (Bolt & Wire Clippers, etc.)
 *†Somerville Iron Foundry (Iron Fdrs, etc.)
 SOUTH BRAINTREE—*American Machine Mfg. Co. (Spark Plugs, etc.)
 SOUTHBRIDGE—*Putney, Newton E.
 SOUTH EASTON—*White, F. H. & Co.
 SOUTH EGREMONT—*Bliss Mfg. Co.
 *†Dalzell Axle Co. (Carriage Axles, etc.)
 SOUTH FRAMINGHAM—†American Foundry Co. (Castings, etc.)
 *American Roller Bearing Co. (Ball and Roller Bearings, etc.)
 *†Robb-Mumford Boiler Co. (Inc.) (Steam Boilers & Machinists)
 SOUTH SUDBURY—*†Hulburt-Rogers Machine Co. (Machine Tools, etc.)
 SPENCER—*Goddard, John E. (Machinist)
 SPRINGFIELD—*Allen-Randall Co. (Bolt Cutters, Special Drop Forgings, etc.)
 *American Electric Switch Co. (Electric Switches)
 *Antiseptic File Co. (Files, etc.)
 *Bacon & Donovan Engine Co.
 *Barney & Berry (Skates, etc.)
 *†Bausch Machine Tool Co. (Machine Tools & High Grade Castings, etc.)
 *†Bemis Car Truck Co. (Electric Car Trucks, etc.)
 *Bemis & Call Hardware & Tool Co. (Tools, etc.)
 *Blair Mfg. Co. (Lawn Mowers)
 †Briggs Iron Works
 *Bullock Mfg. Associates (Watchmakers' Tools, etc.)
 *†Chapman, J. B. & Co. (Machinists, Composition Castings, etc.)
 *†Confectioners' Machinery & Mfg. Co. (Confectioners' Machinery)
 *Davenport Machine Tool Co.
 *Eldredge Elec. Mfg. Co. (Elec. Specialties)
 *ELEKTRON MFG. CO. (Electric Elevators & Motors, etc.) (See adv. index, end of book)
 *Emory, P. P. Mfg. Co. (Brass Finishers & Fdrs, etc.)
 *Ford, Humphrey (Brick Press Machy, etc.)
 *Gilbert & Barker Mfg. Co. (Gas Machines)
 *Hampden Brass Co. (Brass & Composition Castings)
 *†HAMPDEN CORUNDUM WHEEL Co. (Emery & Corundum Wheels, Machinery, etc.) (See adv. index, end of book)
 *Hannan & Finton (Machinists)
 †Hawkins, R. F. Iron Works (Builders' Iron Work, Grey Iron Castings, Engines, Forgings, Bridges, etc.)
 *Hendee Mfg. Co. (Motor Cycles)
 Hercules Float Wks. (Aluminum & Brass Castings)
 Hopkinson Machine Works (Envelope Machines & Drill Vises), 23 Taylor
 *Marcell & Smith (Jack Screws, etc.)
 *NEW ENGLAND ROLLER GRATE Co. (Grate Bars & Castings of All Descriptions)
 *Otis Elevator Co. (see New York City)
 *Piper, E. J. (Paper Ruling Machines, etc.)
 *Russell, John W. (Button Machines & Special Machinery)
 *Smith & Wesson (Revolvers, etc.)
 *Spencer Machine Works
 *†SPRINGFIELD ELEVATOR & PUMP Co. (Elevators, Pumps, etc.) (See adv. index, end of book)
 *†Springfield Foundry Co. (Iron Fdrs. & Machinists, etc.)
 *Springfield Iron Works (Machine & Drop Forgings, Elevators, Machine Work of all kinds)
 *Springfield Level & Tool Co., 54 Taylor
 *Stacy, E. S. Machine Co. (Machine Work of all kinds), 41 Taylor
 *Stebbins, E. Mfg. Co. (Brass Fdrs. & Finishers, Plumbers' Brass Goods)
 *Swaine, Jno (Machinist & Blacksmith, Iron & Steel Forgings, etc.)
 *Waltham Watch Tool Co. (Machine & Watchmakers' Tools, etc.)
 *†Wason Mfg. Co. (Cars, Steam & Electric), Brightwood
 STOCKBRIDGE—*Yale, L. M. (Machinist)
 SUTTON—*Rice, H. F. (Mill Machy, etc.)
 TAUNTON—*Atlas Machine Tool Co.
 *Campbell Printing Press Mfg. Co. (Printing Presses, etc.)
 *Dary Ring Traveler Co. (Ring Travelers, etc.)

*†Dighton Furnace Co. (Stoves, Furnaces, etc.)
 *Easternhouse Engine Co. (Engines, Motors, etc.)
 *Etna Co. (Twist Drills, etc.)
 *†Huber-Hodgman Printing Press Co. (Printing Presses)
 *Lincoln-Williams Twist Drill Co. (Drills, etc.)
 *†Mason Machine Works (Textile Machy.)
 *NEW PROCESS TWIST DRILL CO. (Twist Drills, etc.) (See adv. index, end of book)
 Strange, Chas. E. (Box Makers', Stave & Heading Machy, etc.)
 *Strange, E. W. & Co. (Machinists)
 *Taunton Locomotive Mfg. Co.
 *Taunton-New Bedford Copper Co.
 *†Thomas, Oscar G. (Stoves & Iron Fdry.)
 *†Trefethen, Dan'l A. (Brass Fdry.)
 *†Weir Stove Co. (Stoves)
 *†White-Warner Co. (Stoves, etc.)
 TURNERS FALLS—*†Turners Falls Machine Co. (Water Wheels, Paper Mill Machy. & Iron & Brass Castings)
 WAKEFIELD—*Purinton, Elwin I.
 *†Smith & Anthony Co. (Stoves, Ranges & Plumbing Specialties)
 WALPOLE—Fales, L. F. (Special Machinery, Paper Slitting Machines, etc.)
 WALTHAM—*American Watch Tool Co. (Watchmakers' Tools)
 *Ames, B. C. & Co. (Watch & Clock Machy., etc.)
 *†Davis & Farnum Mfg. Co. (Cast Iron Pipe, etc.)
 *Stark Tool Co. (Machine & Watchmakers' Tools, Precision Lathes, etc.)
 *Waltham Emery Wheel Co.
 †Waltham Foundry Co. (Iron & Brass Castings, etc.)
 *Waltham Machine Works (Watch & Clock Machy.)
 *Waltham Mfg. Co. (Motor Cycles, etc.)
 *Waltham Watch Co. (Watches, etc.)
 WARREN—†*MONARCH VALVE & MFG. Co. (Valves, Hydrants & Waterworks Supplies, etc.) (See adv. index, end of book)
 *PERKINS MACHINE CO. (Drop Hammers, Power Presses, Punching & Shearing Machy, etc.) (See adv. index, end of book)
 *†Warren Steam Pump Co. (Steam Pumps, etc.)
 WATERTOWN—*Massachusetts Fan Co. (Blowers, Fans, etc.)
 Non-Corrosive Metal Co. (Carriage Hdwre, Rustless Nickel Steel and Phosphor Bronze Castings)
 *†Walker & Pratt Mfg. Co. (Stoves, Furnaces, Radiators, Cooking Apparatus, etc.); office, Boston
 WEBSTER—*†PRESCOTT, J. B. & SON (See adv. index, end of book)
 WEST BOYLSTON—*Ovenden, W. C.
 WEST BRIDGEWATER—*Shipman, Geo. (Eyelet Machy)
 WESTFIELD—*Foster Machine Co. (Machinists & Textile Machy.)
 *Lounsbury, Chas. J.
 *Moore, M. E. & Son (Whlp Machy.)
 *Palmer, Henry A. (Machinist)
 *†Pope Mfg. Co. (Bicycles, etc.)
 *Rogers & Whiting Co. (Hardware, etc.)
 *†Smith, H. B. Co. (Steam Heating Apparatus, Radiators, etc.)
 WESTFORD—*†Sargent's, Chas. G. Sons (Wool Working Machy.)
 WEST MANSFIELD—*Richardson & Bottomley (Shuttle Irons, etc.)
 WEST WAREHAM—†Tremont Nail Co.
 WHITINSVILLE—*†Whitin Machine Works (Textile Machy.)
 *Whitinsville Spinning Ring Co.
 WHITMAN—*Pearson, Walter (Machinist)
 WILLIAMSBURG—*Thayer Mfg. Co. (Small Tools, etc.)
 WINCHENDON—*Goodspeed Machine Co. (Woodworking Machy.)
 †Hill & Bosley (Iron Fdrs.)
 *New England Lock & Hinge Co.
 *†Whitney, Baxter D. & Son (Woodworking Machy.)
 WINCHESTER—*Goddard Bros. (Auto Mixing Valves, etc.)
 *Whitney Machine Co. (Machinists)
 WOBURN—*Clemson, Francis W. (Curriers' Tools, etc.)
 *†Woburn Machine Co. (Machinists & Millwrights)
 WORCESTER—*Adams, John J. (Dies, Shoe Machy., etc.), 81 Mechanic
 *American Card Clothing Co. (Card Clothing & Textile Machy.), 518 Main

*American Steel & Wire Co. of New Jersey (See Chicago, Ill.)
 †Arcade Malleable Iron Co. (Steel & Malleable Iron Castings), Washington sq.
 *Athol Pump Co. (Pumps & Brass Castings)
 †Barr, H. G. (Drills, etc.)
 *Bedard, Albert A. (Screws, etc.), 19 Church
 *Boynton & Plummer (Machine Tools, etc.), 52 Lagrange
 *Bradley, Osgood & Sons (Cars & Car Wheels), 18 Grafton
 *Brown, Wm. H. (Carders' Tools, 81 Mechanic
 *Brownell, G. L. (Spring Twisting & Spinning Mach'y., etc.), 49 Union
 *Buckley, T. H. Car Mfg. Co. (Cars & Lunch Carts), 281 Grafton
 *Burlingame, A. Co. (Engineers & Machinists)
 *Cahill Mfg. Co. (Brass Pairs. & Finishers)
 *Chickering, W. F. & Co. (Speed Lathes, etc.), 529 Chandler
 *Cleveland Machine Works, 100 Harlow
 *COATES CLIPPER MFG. CO. (Sheep Clippers, Flexible Shafts, etc.) See adv. index, end of book
 *COES, LORING & CO., Inc. (Machine Knives, etc.) (See adv. index, end of book)
 *COES WRENCH CO. (Wrenches, etc.), Coes sq. (See adv. index, end of book)
 †Colvin, J. A. (Iron Fdry.)
 *Commonwealth Machine Co. (Metal Wks. & Mach'y.)
 *Crompton-Thayer Loom Co. (Looms, etc.), 677 Cambridge
 *Crompton & Knowles Loom Works (Textile Mach'y.), Grand & Tainter
 *Curtis & Martin Machine Co. (Textile)
 *De Long, W. H., 81 Mechanic
 *Desper, H. A. Mfg. Co.
 *Dugar, Edelbert, 54 Harmon
 *Eagan, T. F. Hdw. Co., Blithewood av.
 *Economic Machinery Co. (Label Mach'y.), 172 School
 *Elliot & Hall (Cloth-Folders), 54 Harmon
 *Fairbanks, Geo. L., 103 Union
 *Farwell, Theo. C. (Gas & Gasoline Engines), 10 Lincoln
 *Gessner, David (Textile Mach'y.), 172 Union
 *Greendale Gas Engine Co. (Gas & Oil Engines), W. Boylston & Fales
 *Harrington & Richardson Arms Co. (Fire Arms, etc.), 329 Park av.
 *Harwood & Quincy Machine Co. (Woolen Machines), W. Boylston, Barbers, 50 Lagrange
 *Heald Machine Co. (Machine Tools & Grinding Mach'y.)
 *Hobbs Mfg. Co. (Paper Box & Woodworking Mach'y., etc.)
 *Holyoke Machine Co. (See Holyoke, Mass.)
 *Jacques, John & Son (Shears & Cord Cutting Mach'y.), 95 Webster
 *Johnson & Bassett (Wool Spinning Machines), 114 Foster
 *Johnson & Prentice (Machine Tools, etc.), 687 Cambridge
 *Kligger, R. B. (Envelope Machines, etc.)
 *Kindred & Taylor (Brass & Bronze Pairs, etc.)
 *Knight, E. O. (Gas Engines, etc.), 56 Foster
 *Leland, Wm. H. (Cranks, etc.)
 *Linton & Southwick (Electric Switches & Switchboards)
 *Lowell Wrench Co. (Ratchet Die Stocks, Drills, etc.)
 *Lombard Machine Co. (Woolen Machinery), 64 School
 *Luther, B. G. & Co. (Woodworking Mach'y., etc.), 91 Foster
 *Mason, Marcus & Co. (See New York City, Bicycle Fixings, Ferrules
 *McMahon & Co. (Friction Clutches, etc.), Water & Ledge
 *Matthews Mfg. Co. (Stove Trimmings & Bicycle Fixings, Ferrules, etc.), 104 Gold
 *Morgan Construction Co. (Wire & Bolting Mill Mach'y., etc.), 21 Lincoln
 *Morgan Spring Co. (Agl. & Mach'y. Springs, etc.), W. Boylston, Barber's
 *NORTON CO. (Grinding Wheels, Grinding & Polishing Mach'y., etc.) See adv. index, end of book
 *NORTON GRINDING CO. (Machine Grinding & Machine Parts)
 *Parker, Jno. L. & Co. (Ferrules, etc.), 70 School
 *Peto Foundry Co., 23 Harmon

*Plunger Elevator Co. (Elevators), W. Boylston, Barber's
 *Prentice Bros. Co. (Machine Tools, etc.)
 *Reed Foundry Co. 687 Cambridge
 *Reed, Francis Co. (Upright Drills, etc.)
 *Reed, F. E. Co. (Machine Tools), 122 Gold
 *Reed & Prince Mfg. Co. (Machine Screws, etc.), Duncan av. at Cambridge
 *Reed & Curtis Machine Screw Co., 105 Gold
 *Rice, Barton & Fales Machine & Iron Co. Paper & Pulp Mill Mach'y., 65 Tainter
 *Richardson Mfg. Co. (Mowing Machines, etc.)
 *Roy, B. S. & Son (Textile Mach'y., etc.), 775 Southbridge
 *Savals, O. M. & Co. (Dies, etc.), East Worcester
 *Sawyer, Thos. J., 47 Harmon
 *Smith, Thos. & Co. (Bolts, Nuts, Link Chains, etc.)
 *Snyder, J. E. & Son (Machine Tools), 100 Beacon
 *Standard Foundry Co. (Mach'y. Castings, etc.), Tainter & Gardner
 *Stockbridge Machine Co. (Shaping Machines, etc.), 3 Maud
 *Tudor Mfg. Co. (Tools, etc.)
 *Union Water Meter Co. (Meters, Bernometers, etc.), 33 Harmon
 *Walker Grinder Co. (Machine Tool Grinders), 25 Union
 *Walker, Oakley S. & Co. (Machine Tool Grinders, etc.), 25 Union
 *Washburn Shops of the Worcester Polytechnic Institute (Machine Tools & Iron & Brass Castings, etc.), Boylston at Highland
 *Wells Chemical Bronze Works (Brass, Copper, Tin, Zinc, Comp. & Bronze Castings), 219 Summer
 *Wheeler Foundry Co.
 *Whitcomb-Blaissell Machine Tool Co. (Machine Tools, etc.), 134 Gold
 *Whittle, Jas. H. (Textile Machinery, etc.), 159 Harlow
 *Windle, J. E. (Textile Mach'y.), 44 Vine
 *Winstow, Sam'l Shave Mfg. Co.
 *Woodward & Powell Planer Co. (Machine Tools, etc.), 39 Webster
 *Worcester Brass Co.
 *Worcester Electric Mfg. Co. (Electric Switches, etc.), 42 Lagrange
 *Worcester Lawn Mower Co. (Lawn Mowers, etc.), 105 Gold
 *Worcester Machine Screw Co. (Screw Engine Studs, etc.), Albany & Munroe
 *Worcester Steel Fdry. Co., 67 Union
 *Worcester Pressed Steel Co. (Stove Trimmings, Auto & Bicycle Parts, Ferrules, etc.), 100 Beacon
 *Worcester Warp Compressing Machine Co., 91 Exchange
 *WRENTHAM—Winter Bros. Co. (Taps & Dies, etc.)

MICHIGAN.

ADRIAN—Adrian Steel Casting Co. (Steel Castings, etc.)
 *Babcock Planter Co. (Corn Planters)
 *Bond Steel Post Co. (Steel Posts, etc.)
 *Breedom, Jacob
 *Church Bros. (Pumps, Gas Engines, etc.)
 *Kells Foundry & Machine Co. (Brick & Drain Tile Mach'y., etc.)
 *Page Fence Gas Engine Co.
 *Page Woven Wire Fence Co.
 *Riverside Co. (Dairy & Cheese Mach'y.)
 ALBA—Jones, W. E. (Machinist)
 ALBION—Albion Malleable Iron Co. (Agl. Impls. & Carriage Castings)
 *Cook Mfg. Co. (Gas & Gasoline Engines)
 *Gale Mfg. Co. (Agl. Impls., etc.)
 *Proulx T. C. Co. (Ld.) Door Hangers, etc.
 ALLEGAN—Allegan Fdry. & Mach. Co.
 ALMA—Alma Mfg. Co. (Gasoline Engines, etc.)
 *Montingel, J. M. (Agricultural Implements, etc.)
 ALMONT—Lee, Robt. E. (Iron Fdry.)
 ALPENA—Hanson, Andrew
 *Kline, Lewis T. (Excelsior Machines, Balise Presses, Automatic Lathes, etc.)
 ANN ARBOR—Ann Arbor Hay Press Co. (Hay Presses, etc.)
 *Ann Arbor Mach. Co. (Agl. Impls., Hay Presses, etc.)
 *Biermann, F. J.
 BATTLE CREEK—Advance Pump Compressor Co. (Steam Pumps)
 *Advance Thresher Co. (Agl. Impls., etc.)
 *American Steam Pump Co. (Steam Pumps, etc.)

*Down Machine Co. (Machine Screw Work & Light Machinery)
 *Brennan, John & Co. (Bakers, etc.)
 *Duplex Printing Press Co. (Printing Machinery)
 *Flour Mill Machinery Co. (Flour Mill Mach'y., etc.)
 *Hart, R. A. & Co. (Revolution Counters, etc.), Battle Creek, Mich.
 *Nichols & Shepard Co. (Agl. Impls.)
 *Peterson, John G.
 *Prims, J. C., Mach'y. Co.
 *Ritchie, Gavin & Sons (Brass Cups)
 *Sherman, E. R., Mfg. Co. (Brass Pairs. & Finishers)
 *Union Steam Pump Co. (Steam Pumps, etc.)
 *United States Register Co. (Hot Air Register)
 BAY CITY—Bay City Iron Co. (Iron Castings)
 *Brookman, A. F. (Plows, etc.)
 *Emery & McKee (Cement Brick Mach'y.)
 *Excelsior Foundry Co.
 *Garland, M. Co. (Saw Mill & Salt Well Mach'y., Steam Engines, Iron Pairs, etc.)
 *Industrial Works (Industrial Cars, Cranes, Rail Drills, Shop Saws, etc.)
 *McCandey, Josiah (Brass Fdry. & Finisher)
 *MacKinnon Mfg. Co. (Marine Engines, Castings, etc.)
 *Marine Iron Co. (Mining Mach'y., Hoisting Engines, Iron Pairs, etc.)
 *National Cycle Mfg. Co. (Bicycles)
 *Smalley Mount Co. (Ld.) Gasoline Marine Engines
 *Valley Wind Engine & Iron Co. (Cream Separators, etc.)
 BELDING—Baldon Mfg. Co. (Gas & Gasoline Engines, etc.)
 BENTON HARBOR—Benton Harbor Machine Co. (Brick, etc.)
 *Covel Mfg. Co. (Saw Sharpening & File Room Mach'y.)
 *Rosbach, Frederick P. (Foundry & Bookbinding Mach'y., etc.)
 BIG RAPIDS—Hanchett Sewage Works (Filling Room Outfits)
 *Michigan Heater Co. (Stoves, Ranges & Furnaces)
 BLAINE—Fair, Geo. & Sons, Plows
 BLISSFIELD—Blissfield Motor Works (Motors, etc.)
 *Davenport, Harry C.
 BROWN CITY—McKnight, Jno. J.
 BUCHANAN—Black, Gen. H. (Garden Plows)
 *Lee & Porter Mfg. Co. (Carriage Axes, etc.)
 BURBANK—Sheffield Mfg. Co. (Cure Plant)
 CADILLAC—Cadillac Machine Co. (Mach'y.)
 CAMDEN—Baker Economy Furnace Co.
 *Biddle, Frank D. (Machinist & Fdry.)
 CARSON CITY—Waters, J. T.
 CASS CITY—Cass City Fdry. & Machine Co. (Plows, etc.)
 CHARLEVOIX—Washburn, O. S. & Son
 CHARLOTTE—Beach Mfg. Co.
 JEROME—Blake, E. A. (Brass & Iron Fdry.)
 *Smith's, Thompson Sons
 CHELSEA—Glanier Store Co. (Oil & Gas)
 CLARE—Charge Furnace Co. (Furnaces & Mach'y.)
 COLDWATER—Loring, Sanford (Machinist)
 *Regal Gasoline Engine Co.
 *Titus, Thurlow (Iron Fdry.)
 COMSTOCK—Comstock Mfg. Co. (Steam Engines & Power Transmitting Mach'y.)
 *Davis, W. T. & Co.
 CONSTANTINE—Tweedale & Co.
 COOPERSTOWN—Rout, G. L.
 DELRAY—Michigan Malleable Iron Co. (See Detroit)
 DETROIT—Acme Foundry Co. (Iron Pairs, Gray Iron Castings), Beecher & M. C. R. E.
 *Allene Brass Foundry Co. of Michigan (Brass Pairs, Finishers, etc.), 777 Bellevue av.
 *American Blower Co. (Engines, Blowers, Fans, etc.)
 *American Car & Fdry. Co., 43 Ferry (See St. Louis, Mo.)
 *American Electrical Heater Co. (Electric Heating Appliances), 19 Spencer
 *American Hallow Co. (Agl. Impls., 1496 Hastings)
 *American Injector Co. (Injectors, etc.), Congress & Brooklyn avs.
 *American Lubricator Co. (Lubricators & Brass Pairs. & Finishers, etc.)
 *AMOS, CHAS. & CO. (Builders' Ornamental Iron & Brass Works, 34 W. Larned. (See adv. index, end of book)
 *ANDERSON FORGE & MACHINE Co. (Tool Mfrs., Hammers, Picks & Forged Tools, etc.), 271 Grafton. (See adv. index, end of book)

*†Art Stove Co. (Stoves, etc.), 1555 Russell
 *Austin Separator Co. (Steam & Oil Separators, etc.), 99 W Woodbridge
 *Auto Accessories Mfg. Co., 265 Jeff. av
 *Auto Machine & Repair Co. (Machinists, Dies, & Tools, etc.)
 *Bolles, J. E., Iron & Wire Works, 4th av. and Porter
 *Briscoe Mfg. Co. (Machinists), 1427 Woodward av
 §Bryant-Berry Co. (Brass Founders, etc.), 32 Atwater, W
 *†Buhl Malicable Co. (Elevating & Conveying Machinery, Gray & Malleable Iron Castings, etc.)
 *Burroughs Adding Machine Co. (Adding Machines)
 *†Byram & Co., Inc. (Foundry Mach'y, Cars, Cranes, Tumbling Barrels, etc.), 435 Guoin
 *†Cadillac Motor Car Co. (Automobiles & Grey Iron Castings)
 *Caille Bros. Co. (Coin Operating Machines), 1300 2d av
 *§Capitol Brass Works (Valves, Brass Fdrs. & Finishers, etc.)
 *Cement Working Machinery Co., 105 Catharine
 †Central Foundry Co. (Grey Iron Fdrs., etc.), 195 Atwater
***CHICAGO PNEUMATIC TOOL CO.**
 (Boyer Branch, Pneumatic Tools), 1301 2d av. (See Chicago, Ill.)
 *Clayton & Lambert Mfg. Co. (Plumbers' & Tanners' Tools), Trombly av. & Beaubien
 *Colton, Arthur (Pharmaceutical & Special Light Mach'y), 188 Brush
 *†Co-operative Foundry (Castings for Water, Gas & Chemical Works, etc.), Junction & Henrietta avs
 *Crescent Machine Co. (Machinists), Trumbull av & M. C. R. R.
 *§Detroit Brass Works (Brass Fdrs. & Finishers, Plumbers' Brass Goods, etc.), 1306 Brooklyn
 *Detroit Edge Tool Works (Edge Tools, etc.), Wight & Mt. Elliott av
 *Detroit Heating & Lighting Co. (Steam Heating Apparatus, Gas Machines, etc.), Wight & Lebl
 *§Detroit Lubricator Co. (Lubricators & Steam Separators)
 *Detroit Meter Co. (Gas & Electric Meters, etc.), 206 W Larned
 *Detroit Model Machine Works, Gilman & 2d av
 *§Detroit Motor Casting Co.
 *†Detroit Register Co. (Hot Air Registers, & Hdw. Specialties), Works, Milan, Mich.
 *Detroit River Iron Works (Steam & Gas Engines), 665 E Atwater
 *Detroit Screw Works (Screws & Special Machy.), 368 Franklin
 *Detroit Separator Co. (Steam Separators, etc.), Home Bank bldg
 *†Detroit Shipbuilding Co. (Iron & Steel Ships, Marine Engines & Iron & Brass Founders & Finishers), ft Orleans
 †Detroit Steel Casting Co. (Steel Castings), 1245 Michigan av
 *†Detroit Stoker & Foundry Co. (Light & Heavy Grey Fdrs., Automobile Stoker, etc.), North Grand boul
 *†Detroit Stove Works (Stoves, Ranges, etc.), 1328 Jefferson av
 *Detroit Twist Drill Co. (Twist Drills, Chucks, Reamers, etc.), 226 21st
 *†Detroit Vapor Stove Co., 411 Franklin
 *§Diamond Mfg. Co. (Automobile Parts, Plumbers' Supplies, etc.)
 *Dodge Bros. (Special Machy), 234 Monroe av
 *Du Brle Motor Co. (Marine & Stationary Engines), 436 Guion
 *Dutton, J. B. (Scales, etc.), Detroit, Mich.
 †Eagle Brass Works (Plumbers' Brass Goods, etc.)
 *Eclipse Mfg. Co. (Tools, Dies & Gears, etc.), 47 Fort, E
 †Enterprise Foundry Co. (Light Grey Iron Castings), Beaufait & Warren avs
 *Ericsson & Moon Mfg. Co. (Tools, Dies, etc.), 64 2d
 *§Essex, G. B. Brass Co. (Lubricators & Brass Fdrs. & Finishers), 482 Franklin
 *Fisher Electrical Works (Dynamometers & Motors), 183 W Larned
 *Fuller Co. (Engines & Electric Ventilating Apparatus, etc.), 1566 Russell
 *Ford Mfg. Co. (Engines), 773 Bellevue av
 *Gies Gear Co. (Transmission Gears)
 *§Graebert & Purdie (Brass Fdrs. & Finishers), 12 Sherman
 *†§Great Lakes Engineering Works (See Ecosse, Mich.), Rivard & Detroit River

*†Griffin Wheel Co. (See Chicago, Ill.)
 *†Harvey's, A. Sons Mfg. Co. (Steam Heating Apparatus, etc.)
 *Heath Electric Co. (Electric Bells & Elec. Specialties), 336 Grand River av
 *Horton-Morehouse Co. (Elec. Specialties), 11 Raynor
 *Huxley Mfg. Co. (Valve Refacing Machines, etc.)
 *†Ideal Mfg. Co. (Gas Ranges, Plumbers' Brass Goods & Iron & Brass Founders), 570 Franklin
 Inglis, Wm. Wire & Iron Works, 59 Woodbridge, E
 *†Ireland & Matthews Mfg. Co. (Plumbers' Specialties, Stove Trimmings, Saddlery, Hdw., etc.), Wright & Mt. Elliott
 *Jefferson Iron Works Co. (Machinists)
 *†Jenks & Muir Mfg. Co. (Brass & Iron Bedsteads)
 *†Kahl, Fred'k (Iron Fdry. & Machinist), 14 St. Aubin av
 *§Kennedy & Greig Co. (Machinists & Brass Fdrs.), 211 2d
 *Lamont & Steers Engine Co., 1470 Jefferson av
 *Lauer, Jno. Machine Co. (Machinists, Tools, etc.), 110 St. Antoine
 *Lauhoff Bros. (Flour Mill Machy), 29 Chene
 *†§Lavigne Mfg. Co. (Lubricators, Valves, etc.), Commonwealth & G. T. R. R.
 *Liebig, Wm. & Co. (Eng. & Machinists), 14 Macomb
 *Lloyd Construction Co. (Gas Works Machy), 860 Greenwood av
 *McDonough Damper Regulator Co., 302 Grand River av
 *§McRea & Roberts Co. (Brass Fdrs. & Steam & Plumbing Brass Goods, etc.), 229 Campbell av
 Massnick Mfg. Co. (Gasoline Engines, Machine Tools & Special Machy.), 1567 River
 *Mead & Co. (Machinists), 19th & Newark
 *†Michigan Bolt & Nut Works, ft Meldrum av
 *§Michigan Lubricator Co. (Lubricators, etc.), 661 Beaubien
 †Michigan Malicable Iron Co. (Malleable Iron Castings, etc.), Crossley & Anderson avs
 *†Michigan Stove Co. (Stoves & Ranges, "Garland"), 1022 Jefferson av
 *Middleditch, Benjamin (Sprue Cutters, etc.), 97 Meldrum av
 *Mitchell, Robt. Machinery Co. (Shoe Machinery), 73 W Larned
 *Modern Motor & Machine Co. (Gas & Marine Engines, etc.), 958 Jefferson av
 *Morehead Mfg. Co. (Steam Traps & Plumbers' Specialties), 1041 Grand River
 *Mueller, Chas. R., 75 Shelby av
 *Murchey Mach. & Tool Co., 4th & Porter
 *Murchey Machine & Tool Co. (Pipe Cutting, Threading & Tapping Machines, etc.)
 †Murphy Iron Works (Smokeless Furnaces), ft of Walker
 *Murray Automatic Boiler Feed Co. (Boiler Feeders, etc.), 892 Scotten av
 *New Process Refrigerating Machine Co. (Ice & Refrigerating Machines)
***NORTHERN ENGINEERING WKS.**
 (Foundry Equipment, Cranes, Hoists, etc.), 9 Chene (See adv. index, end of book)
 *Northway Motor & Mfg. Co., 1300 Gratiot av
 *†Northwestern Foundry & Supply Co. (Cast Iron Soil Pipe & Fittings, etc.), Orleans & Grand boul
 *Osborn, F. C. Co. (Special Machy.), 67 Larned, W
 *†Peerless Heater & Valve Co., 251 Guion
 *Pelton & Crane (Elec. Specialties), 35 Clifford
***§PENBERTHY INJECTOR CO.** (Engineering & Steam Specialties, etc.), 346 Holden av. (See adv. index, end of book)
 *Peninsular Brass Works
 *Peninsular Emery Wheel Co. (Emery Wheels & Emery Wheel Machy), 253 Meldrum
 *Peninsular Iron Mfg. Co. (Ltd), Wight & Leib
 *†Peninsular Stove Co. (Coal & Gas Stoves, Ranges & Furnaces)
 *Pilling Air Engine Co. (Compressed Air Hoisting Machinery), North Grand boul
 *†Railway Steel Spring Co. (See New York City)
 *†Rice, D. E. (Fdrs. Machinist, Combined Pump & Heater, etc.), 193 Atwater
 *§Roberts Brass Mfg. Co., Fort & Morrell

***†RUSSEL WHEEL & FOUNDRY**
 Co. (Cranes, Wheels, Car Trucks, Castings, etc.). (See adv. index, end of book)
 *§Scully, W. J. (Plumbers' Brass Goods), Beecher & M. C. R. R.
 §Sherwood Brass Works (Brass Finishers, etc.), 1167 Jefferson av
 *Smith, Jos. N. & Co. (Brass Finishers & Platers, Automobile & Bicycle Works, etc.), 31 W Larned
 *§Standard Brass Works (Brass Fdrs., etc.), 528 E Woodbridge
 *Standard Computing Scale Co. (Computing Scales), 46 Champlain
 Standard Foundry Co. (Iron Fdrs. & Heaters, etc.), 432 Guoin
 *Standard Machine Co.
 *†Standard Sanitary Mfg. Co. (See Pittsburgh, Pa.)
 *Standard Screw Co.
 *†§Stephens, Roe Mfg. Co. (Brass Fdrs., Finishers & Steam Brass Goods, etc.)
 *§Sterling & Skinner Mfg. Co. (Brass Fdrs. & Finishers & Steam Brass Goods), Russell & North Grand boul
 *Stimpson, W. F. Co. (Computing Scales), 24 Antietam
 *†Sun Stove Co. (Gas, Oil & Gasoline Stoves & Heaters, etc.), 1307 Bellevue av
 †Union Foundry Co., Widman pl & Harper
 *†United States Heater Co. (Steam & Hot Water Heaters, etc.), 257 Campbell av
 *Voelkner & Reinke Mfg. Co. (Hardware & Brass Goods), 123 W Woodbridge
 *Watson, Nelson M. (Machinery Specialties), 72 Brush
 †Western Malleable Steel Co.
 *†Whitehead & Kales Iron Works (Iron Fdrs. & Steel Structural Work), M. C. R. R. & Beecher av
 §Winkley Co., 226 Abbott
 *Woodbridge Machine Works (Special Machinery, etc.), 129 Brush
 *Wright Mfg. Co. (Steam Traps & Steam Specialties), 99 W Woodbridge
DOWAGIAC—†Beckwith, P. D. (Est. of Stoves, etc.)
 *†Dowagiac Mfg. Co. (Agl. Impls., Seeding Machinery, etc.),
***AST JORDAN—†Malpass Bros.**
ECORSE—†§Great Lakes Engineering Works
ESCANABA—†§Chatfield Brass & Iron Works
EVART—*Champion Tool & Handle Co. Co.
 *Evart Tool Co. (Lumbering Tools, etc.)
 *West, C. E.
FENTON—†Walker Mfg. Co. (Pumping Engines & Castings, etc.)
FLINT—Armstrong, J. B. Mfg. Co. (Carriage Springs, etc.)
 *†Buick Motor Co. (Gas & Gasoline Engines, etc.)
 *Cook Car Journal Cooler Co.
 †Flint Axle Works (Axles, etc.)
 †Genesee Iron Works (Iron Fdrs.)
 *†Peerless Heater & Valve Co. (Valves, Heaters, etc.)
FRANKFORT—†Markham, F. E.
FREMONT—*Graff & Hall.
LADSTONE—Marble Safety Axle Co.
GRAND HAVEN—*Challenge Machinery Co. (Printing Presses, etc.)
 *Dake Engine Co. (Pneumatic Cranes, Hoists & Motors, Stearing Gears, etc.)
GRAND LEDGE—†Streeter, Hiram R.
 Van Ator Edge Tool Works
GRAND RAPIDS—§Atwood Brass Works
 *Austin & Son (Saw Mill Mach'y, etc.)
 *Baldwin, Tuthill & Bolton (Saw Mill Mach'y, etc.)
 *†Butterworth & Lowe, Inc. (Iron Fdrs. & Mfrs. of Woodworking Mach'y)
 *†Crescent Machine Works (Edw. Tanne-waltz, Prop.), (Fdry. & Machinist)
 *Dodds, Alex. (Woodworking Mach'y, etc.)
 *Edge, Frank & Co. (Saws & Saw Machy.)
 *Elliott Machine Co.
 *†Fox Machine Co. (Woodworking Machy., etc.)
 *Friction Set Works Co. (Sawmill Machinery), 240 S Front
 *Gillette Roller Bearing Co. (Vehicle Roller Bearings)
 *Globe Vise & Truck Co. (Vises, etc.)
 *§Grand Rapids Brass Co. (Brass Fdrs. & Finishers)
 †Grand Rapids Foundry Co. (Iron Fdrs. & Steel Plate Chutes, etc.)
 Grand Rapids Furnace Co.
 *Grand Rapids Gas Engine & Yacht Co. (Gas Engines & Yachts)
 *Grand Rapids Hdw. Co. (Sash Pulleys & Hdw. Specialties)
 †Grand Rapids Malleable Co.
 †Gunn, W. S. & Son (Casters, etc.)
 *†Haney School Furniture Co.
 *Harold Steel Range Co.

*†Hartman, Henry J. (Iron Fdry. & Machinist)
 †Ideal Foundry Co.
 *§Keeler Brass Co. (Brass Fdrs. & Finishers, etc.)
 *Knappe, Jno. Machine Co. (Machinists)
 *†Leitelt, Adolph, Iron Works (Iron Fdry. & Builders' Iron Work, etc.)
 *†Michigan Stove & Caster Co. (Casters, Gasoline Stoves, etc.)
 *Michigan Wheel Co. (Propeller Blades, etc.)
 †Miller Furnace Co. (Furnaces)
 †Munson Co. (Edge Tools, etc.)
 *Oliver Machinery Co. (Woodworking & Pattern Shop Machinery)
 *†Perkins & Co. (Shingle Mill Mach'y, Gas Engines, etc.)
 *Porter, C. O. & A. D. (Woodworking Mach'y)
 †Rapid Heater Co. (Hot Water Heaters, etc.)
 *†§Rempis & Galimeyer Foundry Co. (Iron & Brass Fdrs. & Concrete Mach'y.)
 †Rhodes Mfg. Co. (Hot Air Furnaces)
 *Sintz, Claude (Gasoline Engines, etc.)
 *West Michigan Machine & Tool Co. (Machinists)
 *West Side Iron Works
 *Wilmarth & Morman Co. (Drill Grinders)
 *§Wolverine Brass Works (Brass Fdrs. & Finishers)
 *Wolverine Motor Works (Gas & Gasoline Engines, Marine Engines & Motors)
 GREENVILLE—*†Gordon Hollow Blast Grate Co. (Grate Bars & Woodworking Machinery)
 *Greenville Implement Co. (Plows & Impls.)
 *†Moore Plow & Implement Co. (Agl. Impls., Plows, etc.)
 *†Tower, R. J. (Iron Works)
 HANCOCK—*†Portage Lake Foundry & Machinery Co. (Mining Mach'y, Castings, Chilled Car Wheels, etc.)
 §Ward & Williams
 HARBOR BEACH—†Puddock & Lermont
 HARBOR SPRINGS—*Shay, E. & Son (Machinists, etc.)
 HILLSDALE—*†Alamo Mfg. Co.
 HOLLAND—*†Buss Machine Works (Machinists)
 †Holland Furnace Co.
 †Huntley, Alfred (Machinist)
 *Western Machine Tool Works (Machine Tools)
 HOLLY—†McGonegal, Jas. & Son (Iron Fdrs.)
 HOUGHTON—†Carroll Foundry
 HUDSON—*Abbott & Co. (Carriage Bldrs. Machinery)
 *Abbott Voting Machine Co.
 *Hardie Mfg. Co. (Painting & Spraying Machines)
 *†Hudson Mfg. Co. (Plows, Bicycles, etc.)
 *Lane, N. (Machinist)
 IMLAY CITY—*Parker, Eli F.
 IONIA—*†Arnold's, G. W. Son (Agl. Implants, Castings, etc.)
 ISHPEMING—*Walseth, Ole (Machinist, etc.)
 JACKSON—*Aspinwall Mfg. Co. (Potato Machinery, Planters, Diggers, etc.)
 *Blessing, Louis (Flour Mill & Paper Box)
 *Butcher & Gage Mach'y, etc.)
 *Cement Mach'y. Co. (Concrete Bldg. Block Mach'y. & Devices)
 *Clark, E. C., Motor Co. (Motors, etc.)
 *Cobb, Wm.
 *Coltrin, R. B., Mfg. Co. (Cement Moulding Mach'y)
 *†Dennis Machine Co. (Iron Fdrs., Wood Working Mach'y, etc.)
 *Eureka Machine Co.
 *†Field-Brundage Co. (Gasoline Engines & Motors)
 *Hartwick Machine Co.
 *†Holton & Weatherwax Co. (Ltd.) (Iron Fdrs. & Machinists)
 *†Hutchinson, Jno. Mfg. Co. (Corn Shellers, Feed Mills, Carriage Axles, etc.)
 *Knickerbocker Co. (Flour Mill & Cement Mach'y)
 *Lewis Spring & Axle Co. (Axles, Springs, etc.)
 *Lusk Foundry Co.
 *McKercher Wrench & Tool Co. (Wrenches, Tools, etc.)
 *Miles, P. B., Mfg. Co. (Concrete Bldg. Block Machines)
 *†Novelty Mfg. Co. (Stoves, Hot Air Registers)
 *Sanford, James A.
 *Stringer Machine Co. (Cement Mach'y)
 *Walcott & Wood Machine Tool Co. (Machine Tools, Lathes, etc.)
 *White Cement Machinery Co. (Cement Mach'y)
 *Witherington & Cooley Mfg. Co. (Garden & Farm Tools, etc.)
 KALAMAZOO—*Bennett & Co. (Cigar Vending Machines)
 *Blood Bros. Machine Co. (Auto Specialties)

*Burt Mfg. Co. (Gasoline Engines, Tire Setters, etc.)
 *†Clarage Fdry. & Mfg. Co. (Iron Fdrs. & Machinists, etc.)
 *†Clarage, Thos. & Son (Iron Fdrs. & Machinists & dynamo & motors, etc.)
 *†Clark Engine & Boiler Co. (Steam Engines, etc.)
 *Cook's Standard Tool Co. (Railway & Auto Appliances, etc.)
 *†Dutton, C. H. Co. (Steam Engines, etc.)
 *General Gas Light Co. (Gas Lighting Appliances)
 *Harrow Spring Co. (Harrow Springs & Teeth, etc.)
 *†Hill, W. E. & Co. (Saw Mill Machinery, Pumps, etc.)
 *Humphrey Co. (Instantaneous Water Heaters, etc.)
 *†Kalamazoo Fdry. & Machine Co. (Iron Fdrs. & Machinists & Dynamos & Motors)
 *Kalamazoo Machine & Tool Co. (etc.)
 *†Kalamazoo Railway Supply Co. (Hand & Motor Cars & Railway Supplies, etc.)
 *Kalamazoo Spring & Axle Co. (Carriage Springs & Axles, etc.)
 *†Kalamazoo Stove Co. (Stoves, etc.)
 *Newton Steel Wheel Co. (Steel Buggy Wheels, etc.)
 *Phelps & Bigelow Windmill Co. (Windmills, Pumps, etc.)
 *Reed Mfg. Co. (Agl. Impls., Cultivators, Seeders, etc.)
 †Riverside Foundry Co. (Iron Fdrs.)
 *Schau, Wm.
 *Smith & Pomeroy Windmill Co. (Wind Mills, Feed Mills, etc.)
 *§Star Brass Works (Brass Castings, Trolley Wheels, etc.)
 KALKASKA—*Johnson, E. F.
 LANSING—*Automatic Sales Co. (Gum Vending Machines)
 *Bates & Edmonds Motor Co. (Gas & Gasoline Motors)
 *Beilfuss Motor Co. (Gas, Gasoline, Stationary & Automobile Engines)
 *†Bement's, E. Sons Inc. (Agl. Impls., Stoves, etc.)
 *Bidwell, C. H. (Beam Threshers, etc.)
 *Bryan Machine Co.
 †Capitol Casting Co.
 †Garner, C. E. (Hot Air Furnaces)
 †Gerson-Carey Co.
 *†Hildreth Motor & Pump Co.
 *†Jarvis Engine & Machine Works, (Engineers, Fdrs. & Machinists)
 *†Kneeland Mfg. Co. (Gasoline Engines)
 *Lansing Motor & Pump Co. (Gasoline Motors, etc.)
 *†Lansing Wheelbarrow Co. (Car Wheels, Mining Cars, etc.)
 *†Maud, S. Windmill & Pump Co.
 *New Way Motor Co. (Gasoline Engines)
 *†Olds Gas Power Co. (Gas & Gasoline Engines)
 *†Olds Motor Works (Automobiles, Motors & Gas Engines)
 *Olds, W. S. (Gasoline Engines, etc.)
 *Omega Separator Co. (Cream Separators, etc.)
 *†Peerless Motor Co. (Gas & Gasoline Engines, etc.)
 *Prudden, W. K. & Co. Inc. (Automobile Wheels, etc.)
 Rork, J. & Bro. (Windmills, etc.)
 *Walker & Schultz
 LAPEER—*†Bostick, A. & Sons (Stoves & Castings)
 *†McDonald's, Wm. Sons (Steam Engines)
 LAURIUM—*Macauley, John A.
 LOWELL—Lowell Specialty Co. (Hardware Specialties, etc.)
 LUDINGTON—†Industrial Iron Works
 MANCERONA—*Eclipse Motor Co. (Gasoline Engines)
 MANISTEE—*†Manistee Iron Works Co. (Saw Mill Machinery, Steam Engines, Iron Foundry, etc.)
 MARCELLUS—†Chapman Portable Forge Works
 MARINE CITY—*†Marine City Engine & Boiler Co.
 MARQUETTE—*†Lake Shore Engine Works (Marine & Stationary Engines, Iron Fdrs., etc.)
 †New Process Steel Co. (Crucible Steel Castings)
 MARSHALL—†Dobbins Furnace Co.
 *Lambert Food & Machine Co. (Peanut Mach'y & Grinding Mills)
 *†Marshall Furnace Co. (Hot Air Furnaces)
 MASON—†Fingerle, Jno. C. (Iron Fdry.)
 MAYVILLE—*Markham, Geo. B.

MENOMINEE—*Dudley Tool Co. (Tools, Wrenches & Bicycle Specialties)
 *Gram, Andrew
 *§Henes & Keller Co. (Air Pumps, Brass Fdrs., etc.)
 *Lloyd Mfg. Co. (Automatic Mach'y, etc.)
 *†Prescott Co. (Saw Mill & Mining Machinery, Castings, etc.)
 MIDLAND—*†Dent, Jno.
 MILAN—*†Detroit Register Co. (Hot Air Registers & Hardware Specialties)
 *†Lamkin, W. P.
 MILLINGTON—†Beach, H. A. & Son (Agl. Impls.)
 MONROE—*†Monroe Fdry. & Furnace Co. (Hot Air Furnaces & Castings, etc.)
 *†Wilder-Strong Implement Co. (Agl. Implements, etc.)
 MONTAGUE—*†Montague Iron Works Co. (Fdrs. & Machinists, Steam Engines, etc.)
 MORENCI—†Chappel Furnace Co.
 *Goodyear, Daniel C. (Machinist)
 *†Michigan Brick & Tile Machine Co. (Brick & Tile Machinery & Iron Founders)
 MOUNT CLEMENS—*†Donaldson Bros. (Agl. Implements, Plows, Cultivators, Harrows, etc.)
 *Heydenreich, E. C.
 *Phillips & McCreedy (Machinists)
 MOUNT MORRIS—*†Hughes, Jno. (Fdry. & Machinist)
 MUSKEGON—*American Electric Fuse Co. (Electric Specialties, etc.)
 *Barcus Bros. (Saw Mfrs., etc.)
 *Buss Mach'y Co. (Machinists)
 †Clover, Chas. S. (Iron Fdry.)
 *Continental Motor & Mfg. Co. (Marine Motors, etc.)
 *†Enterprise Brass Works (Frank Holt, Prop.), (Brass Castings & Launch & Engine Trimmings)
 †Enterprise Foundry Co. (Machinery Castings, etc.)
 *Linderman Mfg. Co. (Woodworking Machinery)
 *Racine Boat Mfg. Co. (Launches, Engines, etc.)
 *†Rodgers Iron Mfg. Co.
 *SHAW ELECTRIC CRANE CO. (Main office, New York City). (See adv. index, end of book)
 †Standard Malleable Iron Co. (Malleable Iron Castings)
 MUSKEGON HEIGHTS—*†Morton Mfg. Co. (Machine Tools)
 NASHVILLE—*Taylor, John E.
 NILES—*†Garden City Fan Co. (Iron Founders & Blowers, Fans, etc.)
 *†Welling, A. H.
 NORTHVILLE—*†American Bell & Foundry Co.
 *Stimpson Scale & Mfg. Co. (Wagon, Platform & Truck Scales)
 OWOSSO—*Owosso Mfg. Co. (Screens, Tools, etc.)
 *Steggall, Arthur
 OXFORD—*Wemp, Ernest E.
 PAW PAW—†Snow Bros.
 PETOSKEY—†Blackmer Rotary Pump Power Mfg. Co.
 *†Burnett Foundry & Machine Co. (Ltd.) (Marine Gasoline Engines, etc.)
 †Middleditch, P.
 PINE RUN—†Tinker, Wm
 PLYMOUTH—*†Daisy Mfg. Co. (Air Rifles)
 *†§Hamilton, C. J. & Son Mfg. Co. (Rifles, Guns, etc.)
 *†§Hamilton Rifle Co. (Air Rifles)
 *†§Markham Air Rifle Co.
 *†§Markham Mfg. Co. (Air Rifles)
 PONTIAC—*†Hess Pontiac Spring & Axle Co. (Spring, Axles, etc.)
 *†Howland, E. & Sons (Founders & Machinists)
 *Pontiac Spring & Wagon Works (Wagon Springs, etc.)
 PORT HURON—*§Draper Mfg. Co. (Valve Facing Tools, etc.)
 *Dry Dock Iron Works
 *Huron Bridge & Iron Co.
 *§Lee Mfg. Co. (Pneumatic Tools, Injectors, Valves, Motors, etc.)
 *†Melsel Mfg. Co. (Flour Mill Machinery, etc.)
 *†Port Huron Engine & Thresher Co. (Agricultural Implements, Traction Engines, etc.)
 †Rudge, Jno. (Iron Foundry)
 *Wilson Saw & Mfg. Co. (Saw Mill Mach'y, etc.)
 PORTLAND—†Bates, Wm. (Est. of)
 RICHMOND—*Parker Plow Co. (Agl. Impls.)
 READING—*Brown & Kerr
 ROCHESTER—*†Jackson & Co.
 ROMULUS—*†Seestedt Bros. (Iron Fdrs. & Machinists)

SAGINAW—†Allington & Curtis Mfg. Co. (Blowers, Exhausters, Dust Collectors, etc.)
 *American Beet Harvester Co. etc.)
 *American Sand Stone Brick Machy. Co.
 *†Bartlett, A. F. & Co. (Engines, Mining, Salt Well & Saw Mill Mach'y & Iron & Brass Castings, etc.)
 *†Crescent Gun Co. (Air Guns)
 *Erd Motor Co. (Gas & Gasoline Engines, etc.)
 *Eureka Heating & Ventilating Co. (Grate Box Low Pressure Boiler & Castings, etc.)
 *Farmers' Handy Wagon Co. (Agl. Impls. & Farm Wagons, etc.)
 *Ferrell, A. T. & Co. (Fanning Mills, etc.)
 *Heginbottom & Son
 *Hurtibise, Alex. (Stump Pullers)
 *†Jackson-Church-Wilcox Co. (Mach'y, etc.)
 *†Jackson & Church Co. (Engines, Saw Mills, Mining Mach'y, Castings, etc.)
 *§Koehler Bros. (Brass Fdrs. & Finishers, etc.)
 *Ladd Bros. (Creamery Mach'y & Supplies)
 *Luffkin Rule Co. (Rules, etc.)
 *†Mershon, W. B. & Co. (Woodworking Mach'y, etc.)
 *†Mitts & Merrill (Agl. Impls. & Fdrs. & Machinists, etc.)
 *Moffett Vehicle Bearing Co. (Vehicle Bearings, etc.)
 *National Engineering Co. (Gasoline Engines, Windmills, etc.)
 *Presser, W. H. & Sons (Saws, etc.)
 *United States Cement Shingle Machy. Co.
 *Werner & Pfeiderer (Macaroni Mach'y, Kneading & Mixing Machines, etc.)
 *†Wickes Bros., Inc. (Steam Engines, Saw Mill Machinery, etc.)
 *Williamson, William
 ST. CLAIR—††Great Lakes Engineering Works (Marine Engines & Shipbuilders)
 †Wonder Plow Co. (Plows, etc.)
 ST. JOHNS—*Mason, F. C. & Co. (Agl. Impls. & Parts)
 *Richmond & Holmes (Steam Engines, etc.)
 *†St. Johns Iron Works (Churns & Creamery)
 ST. JOSEPH—*Engberg's Elec. & Mechanical Works (Machinists, etc.)
 *†St. Joseph Iron Works (Basket & Veneer Machy., etc.)
 *Saranac Co. (Book Binders' & Wire Stapling Machinery)
 *Spaulding Engine Co. (Gasoline & Marine Engines)
 *†Truscott Boat Mfg. Co. (Marine Engines & Motors, etc.)
 SANDUSKY—††Sanilac Centre Mfg. Co. (Ltd.)
 SAULT STE MARIE—*Chippewa Engine Wks.
 *†Hickler Bros. (Marine Work)
 SOUTH HAVEN—*Mapes Machine Co. (Peach Pitting Machines)
 STURGIS—*†Freeland, B. F. & Sons Co. (Iron Tanks, Heaters, etc.)
 §Morency Brass Co.
 *Sturgis Machine Co.
 TECUMSEH—†Brewer, Horace & Co., Inc. (Brick Presses & Clay Working Mach'y, etc.)
 *†Century Post Co. (Furnaces & Ranges)
 *†Heesen Bros. & Co. (Feed Cookers, Hog Ringers, etc.)
 THREE RIVERS—*Armstrong Machine Works (Wire Spokes & Nipples, etc.)
 *King Beet Tool Co. (Tools, etc.)
 *National Tool Co.
 *†Roberts Car Wheel Co. (Inspection Cars, Light Car Wheels & R. R. Specialties)
 *†Sheffield Car Co. (Inspection Cars & R. R. Specialties)
 *†Three Rivers Fdry. & Machine Co. (Fdrs. & Machinists)
 *†Three Rivers Railway Supply Co. (R. R. Specialties, etc.)
 *Three Rivers Tool Co. (Tools, Reamers, etc.)
 TRAVERSE CITY—Helm Brick Machine Co. (Cement Brick Machinery, etc.)
 *Jackson, Wm
 *Potato Implement Co. (Corn & Potato Planters, etc.)
 *Queen City Brick Machine Co. (Brick Machinery, etc.)
 †Rounds, Richard & Son (Iron Fdrs.)
 *†Traverse City Iron Works (Iron Fdrs. & Machinists)
 UNADILLA—*Watson-Porter-Watson Co., Ltd.
 UNION CITY—*Green, B. F. (Machinist)
 VASSAR—*†Miller Co. (Fdrs. & Machinists)
 *†Parker, Jno., Plow Co. (Plows, etc.)

VICKSBURG—*†Eclipse Governor Co.
 *Spade Engine Co. (Gas Engines)
 *Vicksburg Mfg. Co. (Steam Specialties, R. R. Devices, etc.)
 WEST BAY CITY—*West Bay City Ship Building Co. (Shipbuilders)
 WEST BRANCH—*Grice, Wm. M. (Machinist)
 WYANDOTTE—†Michigan Alkali Co. (Foundry)
 YALE—*Currier, Fred. P. (Dept.)
 YPSILANTI—*†Michigan Machinery Co. (Drop Hammers, Power Presses & Shears, etc.)
 *Thompson, Oliver E. & Sons (Agl. Impls., etc.)
 *†Ypsilanti Machine Works (Flour Mill Machinery, etc.)
 ZEELAND—*Berghorst, B. J. W.

MINNESOTA.

ALBERT LEA—*Edwards, C. D. (Stump Pullers & Ditching Machines)
 *Hauge, G. A. (Plows, etc.)
 *†Veness, J. W. (Machinist & Fdry.)
 ALEXANDRIA—*Fredenberg, M. D.
 *Olson, L. J.
 ARGYLE—*McKay, J. W. (Machinist)
 AUSTIN—Carlson, C. A. (Machinist)
 *†Johnson & Smith Co. (Plows, Harrows, etc.)
 *Keenan & Reilly Carriage & Machine Co.
 BLOOMING PRAIRIE—*Srsen Bros. (Machinists)
 *Morton, Thos. S. & Son.
 BRAINERD—†Parker & Topping (Iron Fdrs., Light & Heavy Castings, etc.)
 CALEDONIA—*Caledonian Wagon & Iron Wks.
 CANNON FALLS—*Anderson, Jno. J. (Machinist)
 CHASKA—*†Ess Bros.
 CLARKFIELD—*Silver, P. N.
 COLOGNE—*Kohls, Wm. (Machinist)
 COLUMBIA HEIGHTS—†Columbia Heights Foundry Co. (Straw Stackers, etc.)
 CROOKSTON—*Maple Bay Wind Stack Co.
 DASSEL—*Wreisner Bros.
 DULUTH—††Clyde Iron Works (Inc.) (Steam Logging and Concrete Machy.)
 *§Duluth Brass Works Co. (Brass Fdrs.)
 *Duluth Stoker Co. (Automatic Stokers)
 *Duluth Gas Engine Works (Gas Engines, etc.)
 *Marine Iron Co.
 *†National Iron Co.
 *†Northwest Steam Boiler & Mfg. Co.
 *Reliance Engineering Co. (Valves, Steam Traps, etc.)
 EDGERTON—†Anderson, N. P.
 FARIBAULT—*Faribault Mfg. Co. (Gasoline Engines, etc.)
 †Nutting Truck Co.
 *Winter, F. W. & Co.
 FARMINGTON—*Schulz, Edward
 FERGUS FALLS—*†Fergus Iron Works Co.
 GLADSTONE—*Poirier Mfg. Co. (Agl. Impls.)
 GLENCOE—*†Glencoe Fdry. & Machine Co.
 GRANITE FALLS—*Lende & Seven
 HASTINGS—*†Stroud, Humphrey Mfg. Co. (Gasoline & Marine Engines, etc.)
 HENDERSON—*Bisson, C.
 HOPKINS—†Minneapolis Threshing Machine Company
 HUTCHINSON—*Hutchinson Iron Works
 *Webb, P. C.
 JANESVILLE—*†McGuiness, J. I.
 JORDAN—*Wampach & Betz.
 KASSON—*†Johnson A. A.
 LA CRESCENT—*Smith, W. Grubber Co. (Stump Pullers, etc.)
 LAKE CITY—*†Gillett & Eaton (Engines, etc.)
 LITTLE FALLS—*†Denis, Jno.
 MADISON—*Berg, E. O. Mfg. Co. (Agl. Impls.)
 MANKATO—*†Mankato Mfg. Co. (Machinists & Founders)
 MINNEAPOLIS—*Automatic Carbonator Mfg. Co. (Carbonating Machinery)
 *†§Baum's Brass & Model Works, 244 3d av S
 *Bolton Lath & Shingle Machinery Co., 166 Western av.
 †Bryant & Lee (Iron Fdrs.), 2601 University av., S E
 *†Central Machine Works Co. (Woodworking Machy.), 1234 Central av
 *†§Commutator Co. (Copper & Brass Fdrs., Finishers, Commutators, etc.), 121 N. 1st
 †Crown Iron Works Co., 113 2d av S E
 *†Diamond Iron Works (Grain Elevator, Saw Mill Mach'y, etc.), 2d & 18th av. N
 *Electric Heat Regulator Co., 406 Phoenix
 *Electric Machinery Co. (Electric Generators, etc.), 13th av & Polk, N E
 *Enterprise Machine Co., 1118 S 3d

†Flour City Ornamental Iron Works (Brass, Iron & Bronze Fdrs, Finishers, Machinists, etc.), 2635 S. 27th av.
 *Garbett & Schneider, Power bldg, Nicolett Island
 *Hall, W. S. (Machinist), 420 S 2d
 *†Howell, R. R. & Co. (Agl. Impls., etc.), 31st av & 4th S E
 *†Kilgore-Peteler Co. (Steam Shovels, Cars, etc.), Lumber Exchange
 *†Kinnard-Haines Co. (Hay Presses, Engines, etc.), N 44th av nr N Bryant av
 *Lagerquist, Gus. (Elevators, etc.), 514 N 3d
 *†Lenhart Wagon Co., 1014 Washn av S E
 *†Menzel & Jeffrey, 315 9th av, S
 *†Mereen-Johnson Machine Co., 44th av. N & Lyndale av. N
 *Minneapolis Bedding Co. (Brass & Iron Bedsteads) 5th av. & Division
 *§Minneapolis Brass & Iron Mfg. Co. (Brass Fdrs. & Finishers), 116 N 1st av
 *†Minneapolis Fdry. & Mfg. Co., 1900 Monroe N E
 *Minneapolis Plow Works (Plows, Harrows, etc.), 34th av. S & E 27th
 *†MINNEAPOLIS STEEL & MACHINERY Co. (Corliss Engines & Heavy Castings, etc.) (See adv. index, end of book)
 *†Minneapolis Threshing Mch. Co.
 *†Monitor Drill Co. (Grain Drills, Cultivators, etc.), Works, St. Louis Park, Minn.
 *Moore Carving Machine Co. (Woodworking Mach'y), 1919 Portland av
 *§National Brass & Metal Co., Inc. (Brass Fdrs. & Finishers, Plumbers' Brass Goods), 256 S 3d av
 *National Novelty Co., 1st av S & 2d
 *§North Star Mfg. Co. (Brass Fdrs., etc.), 21 High
 †Northwestern Foundry (Iron Fdrs.), 312 S 10th av
 *Parten & Blomstrom Mfg. Co., 249 6th av. S
 *Owens, J. L. Co. (Grain Cleaning Machinery, etc.)
 *†Salisbury & Saterlee Co. (Iron Bedsteads), 215 S E Main
 *Shadegg, J. C. Engine Co., 315 S 3d
 *†Standard Fdry., 1032 3d av N E
 *Stauder, E. G. Mfg. Co. (Engineers, Printing Presses, etc.), 525 S 5th
 *Therien, Jos. O. (Tools), 116 1st av. N
 *†Twin City Ornamental Iron, Wire & Brass Works, 1214 S 3d
 †Union Iron Works
 *Valentine Bros. Mfg. Co. (Gasoline Engines, etc.), 230 5th av
 *Wallof, E. G. (Machinist), 1700 Wash'n av, N
 *Washburn Coupler Co. (Car Couplers & R. R. Specialties)
 *Willford Mfg. Co. (Flour Mill Machy.), 303 S. 3d
 *Woolman, Ellis (Railway Equipments, etc.)
 NEW HARTFORD—*Blumentritt, Jos.
 NEW PRAGUE—†New Prague Foundry Co.
 NEW ULM—*†Leonhardt, Chas.
 *†Ludtke, John A.
 NORTH BRANCH—*Splittstosser, F.
 NORTHFIELD—*Northfield Furnace Co. (Furnaces)
 *†Van Buskirk, N.
 ORTONVILLE—†Mullica, W. F.
 OWATONNA—*Kaplan & Felton
 *†§Owatonna Iron & Brass Works
 *†Owatonna Mfg. Co. (Grain Drills, Seed Sowers, etc.)
 *Virtue & Pound (Gasoline Engines)
 *†Washington Tool Co. (Tools & Machy.)
 PAYNESVILLE—†Seavey, C. W.
 PLAINVIEW—*Edwards, W. G.
 RED WING—*†Densmore Bros. (Steam Sorghum Machy., etc.)
 *†Hjermstad, J. M. (Boat Mfg. Co.)
 REDWOOD FALLS—*Japs, Frank A.
 ROBBINSDALE—*Pearson & Linde
 ROCHESTER—†Lull & Maquardt
 ST. CLOUD—†Atkinson, J. L.
 *†St. Cloud Iron Works (Granite Cutting & Polishing Machy.)
 *St. Cloud Seed & Grain Separator Co. (Agl. Impls.)
 ST. LOUIS PARK—*Martin, M. R. (Grinding Mills)
 *†Monitor Drill Co. (Grain Drills, etc.)
 *†Shock & Hay Loader Co. (Agl. Impls., etc.)
 ST. PAUL—*†AMERICAN HOIST & DERICK Co. (Contractors' & Quarrymen's Machy. & Tools), 63 S Robert. (See adv. index, end of book)
 *Brownson, R. & Co. (Horse Collar & Harness Machy.)

*Franklin Machine Works (Passenger & Freight Elevators), 2208 University av
 *Griffin Wheel Co. (Car Wheels, etc.)
HELWIG MFG. CO. (PNEUMATIC Tools, etc.) (See adv. Index, end of book)
 *†Herzog Iron Works (Ornamental & Structural Steel Work, etc.)
 *Joesting & Schilling (Steel Ranges, etc.), 101 E 5th
 *Johnson, C. I. Mfg. Co. (Printers' Mch'y.)
 Law Mfg. Co. (Hay Tools, etc.)
 Lee & Hoff Mfg. Co. (Elevators & Machine Work), 81 E Fillmore av
 †Northern Malleable Iron Co., Hazel Park
 *†Orme's, Henry Sons (Foundry, etc.),
 †Pler Foundry (Brass & Iron Fdrys.), Water & State
 §Posch, Jos. (Copper & Brass Works), 59 W. 3d
 *§Roberts-Goss Co. (Machinists, Brass Fdrys., Finishers, etc.), 4th & Pine
***†ST. PAUL FOUNDRY CO. (Steel Structures & Builders, Builders & Railroad Castings, etc.), Como av & Toppling.** (See adv. index, end of book)
 *St. Paul Machine Works (Machinists), 123 W 3d
 *†§South Park Foundry & Machine Co. (Radiators, Iron & Brass Fdrys., etc.), Gilfillan blk.
 *†Stickney, Chas. A. Co. (Gasoline Engines, etc.), Filmore av & Starkey
 *†Twinn City Iron & Wire Works (Brass & Iron Fdrys., Elevator Enclosures, Fire Escapes, etc.), 106 E 5th
 *§Union Brass & Metal Mfg. Co. (Plumbers' Supplies), Front & Mackubin
 †Valley Iron Works (Iron Fdrys., etc.), W St Paul Levee
 *†Waterous Engine Works Co. (Gasoline Engines, 62 S Robert
SAUK CENTER—*†Keller Mfg. Co. (Agl. Implements, Harrows, etc.)
SHAKOPEE—*†Minnesota Stove Co. (Stoves)
SOUTH PARK—*†§South Park Foundry & Machine Co. (See St. Paul)
SOUTH STILLWATER—†South Stillwater Iron Works
SPRING VALLEY—*Kilburn, Edw. (Machinist)
STEPHEN—†Stockland, C. K.
STILLWATER—*†Atwood-Jones Mfg. Co.
 *†Bronson, J. N. (Fdry. & Machinist)
 †Dailey, L. W. & Son (Stoves)
 *†Jesse, Aug. (Fdry., etc.)
 *†Northwest Thresher Co. (Agl. Impls., etc.)
 *South Stillwater Iron Works
 *†Stillwater Foundry & Machine Works
 *†Swain, D. M. (Fdry. & Machinists)
VIRGINIA—*†Virginia Foundry & Machine
WADENA—†Gehr, H. W. Co.
WARREN—*†Warren Machine & Iron Works
WASCA—*Lang, Thos. Co.
 †Reibold, Jno.
WATERVILLE—†Spire & Son
WAVERLY—*Waverly Mfg. Co. (Tools, etc.)
WELLS—†Henjum, J. B. & Sons
WINONA—*Baldwin Bros. (Hand Fire Engines)
 *Hardwick, Wm. L. (Machinist)
 *†New Winona Mfg. Co. (Cotton Seed Hullers, Feed Mills, Corn Shellers, etc.)
 *†Phenix Iron Works
 *†Tarras, L. C.

MISSISSIPPI.

ABERDEEN—*†Enderlin, Joseph
 BOLTON—*Birdsong, Mason (Machinist)
 BROOKHAVEN—*Brookhaven Mfg. & Improvement Co. (Cotton Compressors)
 *†Connolly, Jos. & Son (Fdrys. & Machinists)
 CENTERVILLE—*McElwee, George D.
 COLDWATER—*Perry, A. G. (Agl. Impls.)
 COLUMBUS—*†Columbus Machinery & Fdry.
 *†Jacobs, F. M.
 *Littleton, L.
 †Standard Stove Works (Stoves)
 CORINTH—*†Adams, W. T. Machine Co. (Saw Mill Mach'y, Engines, etc.)
 *†Corinth Engine & Boiler Works (Engines & Saw Mill Machinery)
 DOCKERY—*†Collins Plow Works (Agl. Impls., etc.)
 ELLISVILLE—*Johnson Slde Harrow Co.
 GREENVILLE—*Berry Bros. (Harrows)
 *Wall, Jos.
 GREENWOOD—*†Kitchell, H. G. (Fdry. & Machinist)
 GULFPORT—*†Gulfport Mach. & Iron Works
 *Smith, W. R. & Co.
 HATTIESBURG—*†Komp Machine Works (Fdry. & Machinist)
 *†Watkins Machine & Foundry Co.

HAZLEHURST—*Hazlehurst Machine Shops (Inc.)
 JACKSON—*†McDonnell Foundry & Machine Co. (Plows & Castings)
 *†Miss. Foundry & Mach. Co. (Fdrys. & Machinists)
 LAUREL—*†Laurel Machine & Foundry Co.
 MERIDIAN—*Hyde, Chas. J. (Hay Presses, etc.)
 *†Soule Steam Feed Works (Saw Mill Mach'y)
 *†Wetherbee Machine Works
 *Williams-Cliff Machine Co. (Saw Mill Mach'y, etc.)
 MOSS POINT—*†Blumer, Adam
 NATCHEZ—*†Shaw, C. P. (Foundry & Machine)
 SCRANTON—*Gatti, T. C. (Machinist)
 VICKSBURG—*Dutton & McMillan (Machinists)
 †Foley, P. J. & Son
 *†Robinson, B. J. (Machinist & Fdry.)
 *Smith, John B. (Machinist)
 WATERVALLEY—*†Hendricks, Wm. M. & Co.
 WEST POINT—*Bentley, F. A.
 WINONA—*†Romberger Fdry. & Machine Co.
 YAZOO CITY—*Lynn, R. C.

MISSOURI.

AURORA—*†Loy-Wilson Fdry. & Machine Works
 *†United Iron Works Co. (Engines & Mining Machinery, etc.)
 BOONVILLE—†Warnhoff Gate & Iron Works
 BROOKFIELD—*†Mettler, L. M.
 CALIFORNIA—*California Machine Shop
 CAPE GIRARDEAU—†Fuerth, J. F.
 *†Schmittzehe, Andrew J.
 CARROLLTON—*†Farm Tool Mfg. Co.
 *Heins, Daniel
 *Heins, W. F. (Pumps)
 CARTERSVILLE—*†Bryant, W. G.
 *†Jasper County Foundry & Machine Works
 †Miners' Foundry & Supply Co.
 CARTHAGE—*†Carthage Fdry. & Machine Works
 *†Stout-Parke Fdry. & Machine Co.
 CHILLICOTHE—*McDougle, J. F.
 *†Way, Frank Fdry. & Machine Co.
 CLARKSVILLE—*†Fletcher & Son
 CLINTON—†Industrial Iron Works
 COLUMBIA—†Matthews, Chas. (Stoves, etc.)
 *West, Wm. & Son
 DEERING—*†International Harvester Co. (See ELDON—*Vanosdell, C. Chicago, Ill.)
 EXCELSIOR SPRINGS—*Excelsior Mfg. Co. (Cement Machy.)
 FARMINGTON—*Alexander Machine Co.
 FAYETTE—*Fischer, J. W.
 FROHNA—*Bachmann, Theo.
 FRUITLAND—*McNeely, J. J.
 FULTON—†Gilbert, Wm.
 GARDEN CITY—†Kaufman, J. L.
 GLASGOW—*Atkinson & Bond (Engines, etc.)
 GRAHAM—*Moore Bros. (Lightning Rods)
 GREEN CITY—*†Ideal Pump & Mfg. Co.
 HANNIBAL—*†Duffy-Trowbridge Stove Mfg. Co. (Stoves)
 *Long, E. C.
 *†Treat, C. A. Mfg. Co.
 HARRISONVILLE—*†Sharp, I. M. (Machinist & Fdry.)
 *Wohlt, Aug.
 HIGGINSVILLE—*†Raasch, G. A.
 HUNTSVILLE—*†Fleming & Sons Mfg. Co. (Rakes & Hay Stackers)
 *Hamm, Fred. Machy. & Castings)
 INDEPENDENCE—†Independence Foundry Co.
 †Roell Mfg. Co. (Stoves, etc.)
 JEFFERSON CITY—*Star Dynamo Co. (Dynamos & Motors)
 *†Tanner, Theo.
 *†Vetter, H. J.
 JONESBORO—*Godfrey, H. M. (Plows)
 JOPLIN—*†American Concentrator Co. (Mining Machy.)
 *Bartlett Steel Co.
 *†Freeman Fdry. & Mfg. Co. (Mining)
 *Hamm, Fred. Machy. & Castings)
 †Joplin Foundry Co.
 †Joplin Mfg. Co. (Stoves, etc.)
 *†Miners' Gas Engine & Mfg. Co. (Gas Engines, etc.)
 *†Rogers-Conklin Mfg. Co.
 KANSAS CITY—*American Scale Co. (Scales, etc.), American Bank bldg
 †Anderson Coupling & Supply Co. (Hose Couplings, etc.)
 †Armourdale Foundry Co.
 *†Blakesley-Tuttle Stove Co., 1318 W 8th
 *Brown Mfg. Co. (Brass & Iron Bedsteads, etc.), 4300 E 12th
 *Carr Mfg. Co. (Farm Machy.), 1324 W 11th
 *§Central Brass Works Co. (Brass Fdrys. & Finishers), Goodrich pl & Central
 *§Crampton-Farley Brass Co. (Brass Fdrys., & Finishers), 221 Main
 *Eagle Mfg. Co. (Plows, Cultivators, etc.), 1001 Hickory

*Eclipse Hay Press Co., Mill c 8th
 *†English Iron Works Co. (Hydraulic Machinery)
 †Enterprise Foundry Co. (Iron Fdrys.), 114 W 19th
 *Emerson-Newton Co. (Farm Machy), 1314 W. 11th
 *Garland, W. H. (Dies & Tools, etc.), 111 W 18th
 *Harbison & Modica Mfg. Co. (Implt. Supplies, etc.), 1219 W 10th
 *Hervey Machine Works (Special Mach'y, etc.), 313 Grand av
 *†Hoover Stove & Casting Co., 2004 Balto av
 Kansas City Bolt & Nut Co., Inde av & Bristol
 *Kansas City Elevator Mfg. Co. (Elevators, etc.), 105 W 19th
 *†Kansas City Hay Press Co. (Hay Presses, Feed Mills, Haying Tools, etc.), 8th & Mill
 *Kansas City Machine Works (Machinists), 8th & Bluff
 *Kansas City Mfg. & Supply Co., 429 W 5th
 *†Kansas City Wire & Iron Works (Structural Iron Work, etc.)
 *Mathews, Hugh (Cylinder Boring Bars, etc.), 433 W 5th
 *Millman, Chas. A. (Novelty Machy.)
 *Missouri Iron Works (Machinists), 1910 Walnut
 *Morgan Machine & Engineering Co., 1422 Walnut
 *Murray Machinery Co. (Machinists), 4th & B'way
 *§Platt Mfg. Co. (Brass Fdrys. & Finishers), 21st & Campbell
 †Pugh Foundry Co., 15 W Levee
 *Republic Machine Works, 1422 Walnut
 †Sheffield Foundry Co., Sheffield
 *†Smith & Sons Mfg. Co. (Plows, Hay Presses, Rakes, etc.), Guinotte & Lydia
 †Standard Scale & Fdry. Co. (Iron Fdrys. & Scales, etc.), 2116 Wyandotte
 *†Strait, H. N. (Corliss Engines, Coopers Machinery, Scales, Hay Presses, etc.), (See Kansas City, Kan.)
 *Tilks, Frank, Ornamental Iron Wks. Co., 211 W 19th
 *§Trader-Lang Brass Mfg. Co., 1110 McGee
 *Urie-Snyder Iron Work Co., Sheffield
 *Vogl Tool Co. (Stonecutters' Tools, etc.), 1908 Walnut
 *†Weber Gas Engine Co. (Gas & Gasoline Engines), 700 Del.
 *†Witte Iron Works Co. (Gas Engines, etc.), 5th & Penn
 KENNETT—*†Kennett Engine & Boiler Wks.
 KIRKSVILLE—*Cavett Mfg. Co. (Hay Stackers, etc.)
 *†Sherwood, W. L.
 KNOBNOSTER—*Hunter, A. J.
 LEXINGTON—*Taubman, C. W.
 LOUISIANA—†Lynott, J. P. (Stoves)
 *Parsons, J. W.
 MALDEN—*Wills, A. V. & Sons
 MARYVILLE—†Armstrong, Wm. (Iron Fdry.)
 MILAN—*Sevier, J. D.
 MOBERLY—*Brooks, Jas. (Machinist)
 *Eldridge, T. A.
 *†Faessler, J. Mfg. Co. (Machine Tools, etc.)
 *†Moberly Fdry. & Machine Co.
 *Selby, W. H. (Furnaces)
 NEOSHO—†Heaton, Warren
 *†Neosho Chilled Plow Works (Plows, etc.)
 NEVADA—†Woodhouse, J. W. (Iron Fdry.)
 OROGONO—†Orogon Foundry Co.
 PERRY—†Stehle & Son Stove Co. (Stoves)
 PERRYVILLE—*†Perryville Foundry & Machine Shop
 POPLAR BLUFF—†Brewer & Holcomb
 *Adding Typewriter Co. (Adding Typewriters)
 ST. CHARLES—*†American Car & Foundry Co. (Cars, etc.). See St. Louis
 ST. GENEVIEVE—*Jacob & Ritter
 ST. JOSEPH—*Acme Machine Co. (Machinists)
 *§Ambrose Foundry Co.
 *†Berry Foundry & Mfg. Co. (Iron Fdrys., Builders' Iron Work, etc.)
 *Biehlen, H. G.
 *Cartmell Machine Co. (Engines, Threshers & Sawmills)
 *†Crowther & Rogers Mfg. Co. (Foundry & Machine Work)
 *Garvey & Co. (Machinists, etc.)
 *Jamieson Machine Co. (Machy., etc.)
 *Neilson Motor Works (Gas & Gasoline Engines)
 †Phoenix Foundry Co.
 *Richardson, Geo. O. Machine Co. (Engines & Threshing Mach'y)
 *†St. Joseph Plow Co. (Plows, etc.)
 *St. Joseph Pump & Mfg. Co.

†Schwein, August, Stove Co. (Stoves)
 *Wyeth Hdwre. & Mfg. Co. (Hardware, etc.)
 ST. LOUIS—*Alsop Process Co. (Machy.), 1234 S 7th
 *†American Bed Co. (Iron Bedsteads)
 American Brake Co. (Car Brakes & Specialties), 1932 N B'way
 *†American Car Co. (Electric Cars, etc.), 1527 Old Manchester Rd
 *†American Car & Fdy. Co. (Cars, Cast Iron Pipe, Wheels, etc.), Lincoln Trust building
 *American Electric Machinery & Construction Co.
 *American Furnace Co. (Hot Air Furnaces), 1911 Pine
 *American Novelty & Mfg. Co. (Box Fasteners, etc.)
 *†American Radiator Co., 1427 Olive
 *†American Steel Foundries
 §Bajohr, Carl (Lighting Rods, etc.), 4055 Keokuk
 *Ball, Phil De C. (Ice Machines), Palm & Broadway
 *†Banner Iron Works (Iron Fdrs. & Builders' Iron Work), Shaw av & Oak Hill Ry.
 *Benbow-Brammer Mfg. Co. (Washing Machines, etc.), 509 Talcott av
 *Bradley Stencil Machine Co. (Stencil Machines), 2108 Papin
 *Branch Saw Co., 817 N 2d
 *Brauer, A. G. (Stove Repairs, etc.), 318 N 3d
 Brecht, Gus V. Butchers' Supply Co. (Packing House Machy., etc.), 12th & Cass av
 *†Bridge & Beach Mfg. Co. (Stoves), 503 S 1st
 *Buchheit & Haseman, 739 S 2d
 *†Buck's Stove & Range Co. (Stoves, etc.), 3500 N 2d
 *§Cahill-Swift Mfg. Co. (Plumbers' Supplies & Brass Goods), 24 S 12th
 †Carondelet Foundry Co. (Iron Fdrs.), 2123 S King's Highway boul
 *Century Electric Co. (Electric Motors), 404 W 4th, St. Louis, Mo.
 †Century Iron Co. (Iron Fdrs.), 11th & Walnut
 *Champion Shoe Machinery Co. (Shoe Machinery), 3337 Franklin av
 *†Charter Oak Stove & Range Co. (Stoves, etc.), 1440 N Main
 *†Christopher & Simpson Arch'l Iron & Foundry Co. (Iron Fdrs. & Bldrs.' Iron Work), 811 Park av
 *†Commonwealth Steel Co. (Steel Castings, Car Trucks, etc.), Bank of Commerce bldg. Works, Granite City, Ill.
 *Cook Well Co. (Pumping & Well Drilling Mach'y), 15 S 4th
 *Crescent Novelty Mfg. Co. (Dies, Tools), 703 S Broadway
 *†Curtis & Co., Mfg. Co. (Saw Mill Mill Machy. & Air Compressors, etc.), Hamberger & Kinelin
 *Davis Expansion Boring Tool Co., 202 S Commercial
 *§Degge & Musick (Brass Fdrs. & Nickel Plating, etc.), 717 Market
 *Dielectric Mfg. Co. (Machinists, etc.), 224 S Vandeventer
 *Dooley, Jno. E. Furnace Co. (Hot Air Furnaces, etc.), 1002 N Vandeventer
 *Dorris Motor Car Co.
 *Eagle Generator Co. (Acetylene Gas Generators, etc.), 1532 Pine
 *Ellison, Wm. & Sons Mfg. Co. (Machinists, Steam Engines, etc.), 1020 N 6th
 *Emerson Electric Mfg. Co. (Electric Fans & Specialties, etc.), 2032 Wash'n av
 *Essmuller Mill Furnishing Co. (Flour Mill Mach'y), 605 S 6th
 *Fernholtz Brick Machinery Co. (Brick Press Machines), Old Manchester rd & Boyle av
 *Fisher & Davis Mfg. Co. (Excelsior & Woodworking Machy., Engines, Steam, etc.), 1024 N Main
 *Flori, Geo. (Machinist), 111 S 7th
 *Frank & St. Gemme Mfg. Co. (Brass Finishers, Fire Extinguishers, & Machinists), 817 Market
 *†Fritz, Geo. J. Foundry & Machine Co. (Cotton Seed & Pulverizing Mach'y, etc.), 2008 S 3d
 *†Fulton Iron Works (Corliss Engines, etc.), 2d & Carr
 †Gerst Bros. Mfg. Co. (Iron Fdrs. & Bldrs.' Iron Work), 800 Cass av
 §Gilbert, A. & Sons Brass Foundry Co. (Car & Engine Brasses, etc.)
 †Green's Car Wheel Mfg. Co. (Car Wheels, etc.), 3018 N B'way

*Griffiths Iron Works Co. (Builders' Iron Work, Engineers' Tools, etc.), 811 N 10th
 *Gruendler Machine Co. (Machinists), 928 N Main
 *†Hager, C. & Sons Hinge Mfg. Co. (Hardware & Specialties), 2427 De Kalb
 *†Hagey Stove Co. (Stoves, etc.), 1122 S 12th
 *Hall & Brown Woodworking Machine Co. (Woodworking Mach'y), 1913 N B'way
 *Hahn & Mayer, 944 N Main
 *Hart Mfg. Co. (Belt Fasteners, etc.), 24 S 10th
 *Havird, Lee & Co. (Machinists), 722 N 18th
 *Haynes-Langenberg Mfg. Co. (Steel Furnaces), 2301 Lucas av
 §Hoyt Metal Co. (Babbitt Metal, etc.) Merchants-Laclede bldg
 *Imperial Scale Co. (Scales, Trucks, etc.), 709 Barton
 *Jacob, Robt., Jr., 211 Chouteau av
 †Kaysing Iron Foundry Co., 2710 N 25th
 †Kilpatrick, A. & Sons Foundry Co. (Iron Fdrs.), 1631 N 12th
 *†Kingsland-Kay-Cook Mfg. Co. (Electric Supplies, Brass, Bronze, Aluminum & Iron Fdrs., Machinists, etc.), Mullanphy, 11th & 12th
 *†Kingsland Mfg. Co. (Engines, Saw Mills, Threshers, Cotton Gins, Castings, etc.), 1521 N 11th
 *§Knight, W. B. & Co. (Dies, Tools & Special Machy., etc.), 2019 Lucas av
 †Kraushaar Brass Mfg. Co. (Brass & Bronze Fdrs., Car Trimmings, etc.), 2509 N B'way
 *§Kupferle Bros. Mfg. Co. (Brass Fdrs. & Machinists), 600 N 2d
 *†Kupferle, Jno. C. (Hardware & Plumbers' Specialties), 2d & Mound
 *§Laclede Brass Works (Brass Fdrs.), 307 Cedar
 *†Landay Steel Range Co., 1500 Montgy.
 *Landis Machine Co. (Machinists, etc.), 1515 N 25th
 *†Ludlow-Saylor Wire Co., 600 S Newstead av
 §Lupfer, W. (Brass Fdry.), 216 Locust
 *McGoogan, W. J. (Machinist), 210 Morgan
 *†MacGowan & Finigan Fdy. & Machine Co. (Trip Hammers, etc.), Gay bldg.
 *†Majestic Mfg. Co. (Steel & Malleable Iron Ranges, etc.), 2018 Morgan
 *Materne Mfg. Co. (Machinists, Pipe Fitters, etc.), 800 S 18th
 *Maynard, J. F. (Ice Refrigerating Machy.), 116 Geyer av
 *†Medart Patent Pulley Co. (Iron Fdrs. & Machinists, Power Transmitting Machinery), 3500 De Kalb
 *†Mellon, Peter H. Mfg. Co. (Brass & Iron Bedsteads, etc.)
 †Mesker & Bro. (Iron Fdrs. & Builders' Iron Work), 421 S 6th
 *§Messmer, Ferdinand Mfg. Co. (Gears Brass Fdrs., etc.), 2700 S 7th
 *Miller, W. A. Elevator Mfg. Co. (Elevators, etc.), 9th & Victor
 *Miller & Brockman (Steam Supplies, etc.), 212 Lucas av
 §Missouri Brass Type Fdry. Co., 22d & Howard
 Missouri Bridge & Iron Co., Fullerton bldg
 *Mitchell-Parks Mfg. Co. (Flour Mill Machinery), 1234 S 7th
 *Moloney Electric Co., 7th & Hickory
 *MOON ELEVATOR CO. (Elevators, etc.), 8th & Mullanphy. (See adv. index, end of book)
 *§More-Jones Brass & Metal Co. (Brass Fdrs., Bearings, etc.), 3144 N B'way
 *†Nelson, N. O. Mfg. Co. (Plumbers' Specialties, Cast Iron Pipe, etc.), 10th & Chestnut
 Pauly Jail Building Co. (Steel Jail Work), 2215 De Kalb
 *Philippi, Alex. F. (Machinist), 308 Market
 *†Pleuger & Henger Mfg. Co. (Hardware Water Works & Plumbing Specialties, Iron & Brass Fdrs., etc.), Herbert nr N 11th
 *Progress Press Brick & Machine Co. (Brick Machy., etc.), Kings Highway & Scanlan av
 *Ramming, John Machine Co. (Steam Engines, etc.), 300 S Main
 *Ramsey, Wm. (Machinist), 308 Vine
 *Reliance Machine & Tool Works (Brick Press Machines & Pumps), 3341 Franklin av
 Republic Railway Appliance Co., Main & Market
 *Ross-Keller Triple Pressure Brick Machine Co. (Brick Machy.), Fullerton bldg

*Roth, B. Tool Co. (Machinists & Tools), 2122 Chouteau av
 *†Ruemmel-Dawley Mfg. Co. (Ice & Refrigerating Machy., etc.), 3900 Chouteau av
 *†§Rumsey, L. M. Mfg. Co. (Machinists, Fdrs. Railway Supplies), 806 N 2d
 *Rumsey & Sikemeier Co. (Machinery, Electric Supplies, etc.), 1900 Pine
 §Ruppenthal, J. & Son, 1602 N B'way
 †St. Louis Architectural Iron Co., De Kalb & Lesperance
 *St. Louis Blower & Heater Co., 1628 N 9th
 *St. Louis Boat & Engine Co., 3608 S Main
 *§St. Louis Brass Mfg. Co. (Brass Fdrs. & Finishers), 1116 Market
 *†§St. Louis Car Co. (Car Builders and Grey and Malleable Iron Castings, etc.), 8000 N Broadway
 *†St. Louis Car Wheel Co. (Car Wheels, R. R. and Machinery Castings), Spring av nr Mo. Pac. Ry.
 *St. Louis Gas & Gasoline Engine Co., 2615 DeKalb
 *St. Louis Iron & Machine Works (Corliss Engines, etc.), 126 Chouteau av
 *St. Louis Machine Co. (Machine Tools, etc.)
 †St. Louis Malleable Casting Co. (Malleable & Gray Iron Castings), 7701 N Conduit av
 *St. Louis Steam Engine Co. (Steam Engines, Air Compressors, etc.), 16 S Commercial
 *St. Louis Well Machine & Tool Co., Wash R R & S 44th
 *Schoelhorn-Albrecht Machine Co. (Machinists), 416 N Main
 †Scullin-Gallagher Iron & Steel Co. (Open-Hearth Steel Castings, etc.), Kraft & Manchester av
 *Security Register Co., 1512 Clark av
 *§Seibel-Suessdorf Copper & Iron Mfg. Co. (Brewers' & Malsters' Machy.), 2d & Lombard
 *Sinning, Chas. (Machinist), 244 Dickson
 *§Smith & Davis Mfg. Co. (Iron & Brass Bedsteads)
 *Snider Electric Co. (Dynamometers & Motors), 1626 S Broadway
 *†Sodemann Heat & Power Co. (Radiators & Heating Apparatus), 1510 Clark av
 †South St. Louis Foundry Co. (Iron Fdrs. & Bldrs.' Iron Work), 7514 S B'way
 †Spuck Iron & Foundry Co. (Iron Fdrs.), Branch & 14th
 *Standard Adding Machine Co., Spring av & Forest Park boul
 *Standard Railway Equipment Co. (Pneumatic Tools), Nat'l Bank of Com. bldg
 *§Stuckstede, H. Bell Foundry Co. (Bell & Brass Fdrs.), 1312 S 2d
 Stupp Bros. Bridge & Iron Co., Weber rd & Mo. Pac. Ry.
 *Swaine, Fred J. Co. (Machine, Tools, etc.), 7th & O'Fallon
 *Tolland, J. W., 1712 N B'way
 †Tower Grove Foundry Co.
 *Turley, Harvey G. (Cut Gears), 214 Locust
 *†Union Iron & Foundry Co. (Iron Fdrs. & Builders' Iron Work, etc.), 1452 S 2d
 *†Wagner Electric Mfg. Co. (Dynamometers, etc.), 2013 Locust
 *Wenger, Geo., Machinery & Supplies Mfg. Co. (Machinery & Castings, etc.), 1323 Merchant
 *†West St. Louis Machine & Tool Co. (Shovel Machinery, etc.), 606 Manchester av
 §Western Brass Type Foundry, 3749 Texas av
 *†Western Foundry & Sash Weight Co. (Iron Fdrs.), 159 Miller
 *†Whitman Agricultural Co. (Agl. Impls.), 6900 S Broadway
 *Willard, W. G. (Ranges, etc.), 318 Chestnut
 *Williams, Milton F. Mfg. Co. (Mill Wrights & Machinists), 2705 N B'way
 *Williams Patent Crusher & Pulverizer Co. (Pulverizing Machy), 2705 N B'way
 *†Wrought Iron Range Co. (Ranges, etc.), 1901 Washington av
 *Yerkes & Finan Woodworking Machine Co. (Woodworking Machy.), 3145 N 9th
 *Ziegler, Robt. (Printing Presses, Bookbinders' Machy., etc.), 208 Vine
 SALISBURY—*Rolling, J. F.
 SAVANNAH—*Howard Stove & Mfg. Co.

SPDADIA—*Barley, Thos. K. (Agrl. Impls., Harrows, Haying Tools, etc.)
 *Sisby Stove & Queensware Co. (Stoves, *Wells, Geo. (Fdry. & Machinist) etc.)
 SEYMOUR—*Freeman Foundry & Machine Works
 SPRINGFIELD—*New Phoenix Foundry Co.
 *United Iron Works Co. (Ice Making, Mining & Cement Mach'y, Builders' & other Iron Castings, etc.)
 *Woods-Evertz Stove Co. (Stove Mfrs.)
 SWEET SPRINGS—*Fischer & Son (Harrows, etc.)
 TARKIO—*Midland Mfg. Co. (Plows, etc.)
 TRENTON—*Marsden Bros. (Jobbing)
 WEBB CITY—*Joplin Foundry Co.
 *Webb City Iron Works
 *Webb City Stove Co. (Stoves)
 WEST PLAINS—*Summers, W. L.

MONTANA.

ANACONDA—*Anaconda Copper Mining Co.
 BUTTE—*Anaconda Copper Mining Co.
 *Montana Iron Works
 *Western Iron Works, Inc. (Castings & Mach. Work)
 GREAT FALLS—*Great Falls Iron Works, Inc. (Fdrs. & Machinists)
 HELENA—*Caird & Hawksworth (Stamp Mills & Castings, etc.)
 *Hansen, C. L. (Machinist)
 *Montana Anchor Fence Co.
 *State Novelty Works (Inc.)
 PHILIPSBURG—*Philipsburg Iron Works
 TOWNSEND—*Bowhay, Chas. & Co.

NEBRASKA.

BEATRICE—*Dempster Mill Mfg. Co. (Cultivators, Grain Drills, etc.)
 *Kees, F. D., Mfg. Co. (Hardware Specialties, etc.)
 *Langdon, Horace
 CENTRAL CITY—*Jensen Bros.
 DAVID CITY—*Barker Mfg. Co. (Garden Weeder, etc.)
 FAIRBURY—*Fairbury Iron Works & Windfalls City—*Pecht & Harris mill Co.
 FREMONT—*Fremont Fdry. & Machine Co.
 GRAND ISLAND—*Kucera Windmill, Mach. & Fdry. Co.
 HASTINGS—*Brueningsen, F. (Machinist)
 *Emrick Mfg. Co.
 HEBRON—*Nickel, Chas.
 HOLDREGE—*Hultquist Bros.
 KEARNEY—*Black & Kuhn Bros.
 LINCOLN—*Cushman Motor Co. (Engines & Motors, Gasoline)
 *Eureka Mfg. Co. (Grain Grading Machy.)
 *Frishette, Isaac (Machinist)
 *Hedges, C. E.
 *Nebraska Mfg. Co. (Agrl. Impls., etc.)
 *Reddig, Mossholder & Co.
 *Smith, R. L. Machine Works (Steam Pumps, Castings, etc.)
 *Westover, John (Structural Steel & Bridge Works)
 NEBRASKA CITY—*Eccleston, F. B. & Co.
 *Faultless Caster Co. (Casters, etc.)
 *King Drill Mfg. Co.
 NORFOLK—*Norfolk Foundry & Mfg. Co.
 OMAHA—*Albrecht, O. A. & Co. (Machy.)
 *American Smelting & Refining Co. (See N. Y. City)
 *Andreen, Gustav (Safes, etc.)
 *Davis Bros.
 *Deere, John, Plow Co. (Agrl. Implementations, etc.)
 *Ely, Allen P. & Co.
 *Jubilee Mfg. Co. (Sad Irons, etc.)
 *Larsen-Baker Ice Machine Co. (Ice Machines)
 *Liddell, Jno.
 *McDonald Bros. (Brass Fdrs.)
 *Melchior, P. Machine Works (Mchnst.)
 *Omaha Electrical Works
 *Omaha Stove Repair Works
 *Omaha Structural Steel Works
 *Paxton & Vierling Iron Works (Iron Fdrs. & Builders' Iron Work)
 *Wearne Bros. (Iron Fdrs.)
 *Western Electrical Co.
 YORK—*York Foundry & Engine Works (Engineers, Machinists & Founders, Grain Elevators, Conveying & Power Transmitting Machy., etc.)

NEVADA.

RENO—*Nevada Engineering Works
 RHYOLITE—*Southern Nevada Iron Wks.

NEW HAMPSHIRE.

BERLIN—*Berlin Foundry & Machine Co.
 BRENTWOOD—*Robinson, A. J. (Water Wheels)
 BRISTOL—*Holmes, Chas. W. (Machinist)
 CANAAN—*Flint, Edwin (Machinist)
 CHESHAM—*Russell, Edw. G. (Machinist)
 CLAREMONT—*Burns, John W. (Jobbing)
 *Sullivan Machinery Co. (Rock Drills & Mining Machy., etc.)
 CONCORD—*Concord Foundry & Machine Co. (Iron Fdrs.)
 *Cushman Electric Co. (Electric Motors, etc.)
 *Ford, Wm. P. & Co. (Stoves)
 *Ford & Kimball (Brass & Iron Fdrs., *National Separator & Machine Co.)
 CONTOOCOOK—*Kingsbury & Davis Machine Co. (Paper Box Machy.)
 DOVER—*Davis, Herbert M. (Machinist)
 *Kidder Press Co. (Printing Presses, etc.)
 *White, John A. Co. (Woodworking Machy.)
 EAST CONCORD—*Badger, Franklin L.
 *Eastman, Samuel & Co. (Nozzles, etc.)
 EAST ROCHESTER—*Shorey, John C. (Machinist)
 EXETER—*Exeter Brass Works (Plumbing Specialties & Brass Fdrs.)
 *Exeter Machine Works (Heating Apparatus, etc.)
 FRANKLIN—*Beaupre Bros.
 *Franklin Iron Works
 *Griffin, G. W. & Co. (Woodworking Machy., Jig Saws, etc.)
 *Kidder Machine Co. (Paper & Pulp Mill Machy.)
 *Mayo Knitting Machine & Needle Co. (Knitting Machines)
 HINSDALE—*Granite State Mowing Machine Co. (Mowing Machines, etc.)
 *Holman, Jason R.
 *Tilden, Frank W. (Iron Fdry.)
 KEENE—*Hill, Dan L.
 *Hubbard, H. W. (Jobbing Work)
 *Humphrey Machine Co. (Water Wheels, etc.)
 *Sargent, George W.
 LACONIA—*American Twist Drill Co. (Knitting Machines)
 *Esty Sprinkler Co. (Mach. & Fdry. & Fire Extinguishers)
 *Esty, Wm.
 *Huse, Warren D. & Son (Knitting Machinery)
 *Glidden, A. S. Co. (Brass Composition Fdrs.)
 *Laconia Car Co. Works. (See Boston, *McGloughlin, Jas. (Iron Fdr.) Mass.)
 *Mayo, Geo. D. Machine Co. (Knitting Machinery, etc.)
 LAKEPORT—*Bickford, H. & Co.
 *Cole Mfg. Co. (Rotary Planers Saw Mill Machy., etc.)
 *Crane Mfg. Co. (Knitting Machines)
 *Pepper Machine Works (Knitting Machy.)
 LANCASTER—*Sleeper, C. W. (Engineer & Machinist)
 *Thompson Mfg. Co.
 LEBANON—*Cole, S. & Son (Iron Fdrs.)
 *Kendrick & Davis (Watchmakers' Tools & Electrical Specialties)
 *Purmort, Martin V. (Band Saws, Planers, etc.)
 MANCHESTER—*American Locomotive Co.
 *Amoskeag Mfg. Co.
 *Corey, Wm. Co. (Knitting Machines, Needles, etc.)
 *Dodge Needle Co. (Latch Needles for Knitting Machines, etc.)
 *Hutchinson, C. H. (Iron Fdrs. & Paper Pulp Mill Machy.)
 *Lacene Mfg. Co. (Shoe Machy.)
 *Leighton Machine Co. (Knitting Machy.)
 Smith, John A. V. Co. (Fly-Frame Fliers for Textile Mills)
 NASHUA—*American Shearer Mfg. Co. (Sheep Shearing Tools, etc.)
 *Eastern Forge Co. (Shafting Forgings, etc.)
 *Flather, E. J. Mfg. Co. (Machine Tools)
 *Flather Foundry Co. (Iron Fdrs.)
 *Flather & Co. (Machine Tools, etc.)
 *Flather, Mark, Planer Co. (Planers, etc.)
 *Highton, Wm. & Son (Hot Air Registers, etc.)
 *Improved Paper Machinery Co. (Paper & Pulp Mill Machy.)
 *International Paper Box Machine Co. (Paper Box Machy.)
 *Nashua Co-Operative Iron Foundry Co.
 *Nashua Machine Co. (Machinists)
 *Nashua Novelty Works (Toys, etc.)
 *Nashua Saddlery Hardware Co.
 *Rollins Engine Co. (Engines, etc.)

*Spencer & Rideout (Power Cloth Presses, etc.)
 *White Mountain Freezer Co. (Ice Cream Freezers, Light & Heavy Gray Iron Castings, etc.)
 NEWFIELDS—*Grant, Walter B.
 *Wiggin, Geo. B. (Jobbing)
 NEWTON JUNCTION—*Brown, Emma C.
 NORTH GROTON—*Kidder, Dan'l & Son (Machinists)
 NORTH WEARE—*Hanson, Dan'l (Shoe Machinery)
 PENACOOK—*Concord Axle Co. (Stone Polishing Mach'y, Axles, Brass Castings, etc.)
 *Whitney Electrical Instrument Co. (Electric Instruments)
 PETERBORO—*White's, Sam'l G. Sons
 PORTSMOUTH—*Chadwick, Geo. B. & Co. (Machinists), (Expanding Reamers, etc.)
 *Ellery, Robert L. (Mach'y)
 *Goodall & Tolman
 ROCHESTER—*Furnald, John C. (Iron Fdry.)
 *Rochester Fdry. & Machine Works
 SALMON FALLS—*Somersworth Foundry Co. (Stoves, Ranges, etc.)
 SOMERSWORTH—*Brackett, Shaw & Lunt Co. (Gasoline Engines, etc.)
 SUNAPEE—*Smith, N. A.
 UNION—*Hamlin, E. T. Brass Co.

NEW JERSEY.

AMPERE—*Crocker-Wheeler Co. (Electric Machy.)
 ARLINGTON—*Lovell, F. H. & Co. (Brass & Copper Goods)
 *Stiles, T. George, Co. (R. R. Appliances)
 ASBURY PARK—*Murphy Foundry & Mfg. Co.
 *Parisen, Richard F.
 *Redden, Wm. T.
 *Sooy & Hogg
 ATLANTIC CITY—*Bowen, F. H.
 *Corkran & Maloney
 *Seashore Machine Works (Inc.)
 BARTLEY—*Bartley, R. C. Co. (Steam Heaters)
 *Bartley, Wm. & Sons (Saw Mill Machy.)
 BAYONNE—*Babcock & Wilcox Co. (Water Tube Boilers, etc.) Main Office: New York City
 *Barnes Lock & Foundry Co.
 *Clark's Iron & Brass Foundry
 *Crane & Whitman Co. (Engines, etc.)
 *Electric Launch Co. (Gas Engines, Launches, etc.)
 *Electro-Dynamic Co. (Electrical Specialties)
 *Eley Mfg. Co. (Machy., etc.)
 *Goubert Mfg. Co. (See New York City)
 BELFORD—*Walling, Luther
 BELLEVILLE—*Eastwood Wire Mfg. Co. (Iron, Brass & Bronze Castings, Special Machy., etc.)
 *Eck Dynamo & Motor Works (Generators, Hoppens, J. E. & Sons tors & Motors)
 *Thomson, C. A. Machine Co.
 BEVERLY—*Elba Iron Works
 BLOOMFIELD—*Jenkins Mfg. Co. (Brass & Composition Castings of all kinds & Plumbers' Brass Goods, etc.)
 *Sprague Electric Co. (See New York City)
 *Taylor, Jas. L. Mfg. Co. (Iron Clamps, etc.)
 *Tower & Lyon Co. (Hardware, etc.)
 BOONTON—*German-American Foundry Co.
 *Whitehead, Oscar P. (Machinist)
 BORDENTOWN—*Rice, Jno. V., Jr. & Co. (Founders, Gas & Gasoline Engines, etc.)
 *Riverview Iron Works
 *Swift, Geo. W., Jr. (Machy., etc.)
 BOUND BROOK—*American Engine Co. (Engines)
 *Graphite Lubricating Co.
 *Timmis & Clissold
 BRIDGETON—*Bridgeton Iron Works
 *Cox Bros. (Canning Mach'y, etc.)
 *Cox & Sons Co. (Engines & Heating Apparatus)
 *Crescent Gas Fixture & Art Metal Co.
 *Ferracute Machine Co. (Sheet Metal Working Machy., etc.)
 *Hettinger Engine Co. (Gas & Gasoline Engines, etc.)
 BURLINGTON—*Devlin, Thos. Mfg. Co. (Saddlery Hardware, etc.) (See Phila., Pa.)
 *Gray Mfg. Co.
 *Lindsay, John C. & Co.
 *Stuart & Peterson Co. (Enameled Iron Ware, etc.)
 *U. S. Cast Iron Pipe & Fdry. Co. (Cast Iron Pipe). See New York City
 CAMDEN—*American Addograph Co. (See Phila., Pa.)
 *Blair Mfg. Co. (Machinists' Tools)
 *Camden Foundry Co. (Iron Fdrs.)

*†Camden Iron Works (Pumping Machy., etc.) See Phila., Pa.
 *†Dialogue, John H. & Son (Iron & Steel Ship Builders)
 *Estabrook Steel Pen Mfg. Co. (Steel Pens)
 *†Fulmer, A. J. & Co. (Enameled Iron Sanitary Goods)
 *Hunt, C. Howard Pen Co. (Steel Pens)
 *Industrial Mfg. Co. (Sewing Machines)
 *Lambert & Todd Machine Co.
 *†Lancaster Machine & Structural Works (Structural Work, Machine Work & Grey Iron Castings). Works, Lancaster, Pa.
 *Mathis, John H. & Co. (Ship Builders)
 *Morton, Wm. W. & Co. (Machinists)
 *New Jersey Wire Stitching Machine Co.
 *New York Ship Building Co. (Iron & Steel Ship Builders)
 *Pierce & Chadwick
 *Quigley, Davis & Dorp (Machinists & Ship Builders)
 *Smith & Sinclair (Machinists)
 *Southwark Scale Co. (Scales, etc.)
 *Victor Talking Machine Co. (Talking Machines)
 *Voigt Metal Co. (Brass Fdrs.)
 *Webster, Warren & Co. (Machinists & Feed Water Heaters, etc.)
 *†Wood, R. D. & Co. (See Phila., Pa.)
 CARLSTADT—*Bergen Mfg. Co. (Machinists)
 *Klaber, S. & Co. (Plumbers' Brass Goods)
 CARTERET—*†Wheeler Condenser & Engineering Co. (See New York City)
 CEDAR BROOK—*Bailey & Steele Mfg. Co. (Dyeing Machines, etc.)
 CEDARVILLE—*Garrison, H. S. (Sand Washing Machines)
 CHROME—*†Chrome Steel Works (Chrome Steel & Specialties)
 DOVER—*McKiernan Drill Co. (See New York City)
 *†Morris County Machine & Iron Co. (Mining & Pumping Machinery, etc.)
 *†Richardson & Boynton Co. (Stoves). (See New York City)
 DUNELLEN—*RANSOME CONCRETE Machinery Co. (Concrete Mixers, etc.) (See adv. index, end of book)
 EAST NEWARK—*†Hewitt, John Foundry Co. (Iron, Brass & Aluminum)
 *Horstmann, F. W. Co.
 EAST ORANGE—*Collinson, Joshua
 EDGEWATER—*†Davis, Chas. E.
 ELIZABETH—*†American Gas Furnace Co.
 *American Swiss File & Tool Co. (See New York City)
 *Ball & Wood Co. (Steam Engines). (See New York City)
 *Braunsdorf-Mueller Co. (Tools, etc.)
 *†BROWN, A. & F. C. (See New York City)
 *Diehl Mfg. Co. (Electric Fans, etc.)
 *Duncan Bros. (Machinists)
 *†Elizabeth Foundry Co.
 *Elizabeth Machine & Iron Works (Engines, Special Machy., etc.)
 *Elizabeth Mfg. Co. (Bottle Washing Machinery)
 *†Harris-Kilpatrick Brass Co. (Machinery)
 *Kullander, Chas. (Machinist)
 *Meyer, Frederick
 *†Moore, Saml L. & Sons Corp. (Machinists, Iron & Brass Fdrs.)
 *†Moore Bros. Co. (High Grade Grey Iron Castings & Machine Work)
 *†Singer Mfg. Co. (See New York City)
 *Stephenson, John Co. (Electric Car Builders). (See New York City)
 *†United States Gate Bar Co.
 *Walsh, James J. (Calculating Machines)
 ELMER—Charlesworth, G. A. (Millwright & Machinist)
 *†Ward & Vandegriff (Textile Machy.)
 *Woolbert, Chas. W. (Millwright, etc.)
 ENGLISHTOWN—*Farrington & Co. (Springs)
 FLEMINGTON—*†Fioran Foundry & Mfg. Co.
 *Mallory Mfg. Co. (Hdw. Specialties)
 FLORENCE—*†Florence Iron Works. (See Philadelphia, Pa.)
 FORT LEE—*Vogel, Chas. (File-Cutting Machines)
 FRANKFORT—*Clawson, C. C. (Chines)
 FREEHOLD—*†Bawden, J. H. Co.
 *Stokes Bros. Mfg. Co. (Rasps, Files, etc.)
 GARWOOD—*†C. & C. Electric Co. (Dynamometers, Motors, etc.)
 *†Garwood Foundry & Machine Co. (Steam & Hot Water Heaters & Grey Iron Castings)
 GLASSBORO—*†Carneil, Wm. & Son (Iron Fdrs.)
 GLOUCESTER CITY—*†Rogers, John M.
 GRENLOCH—*†Bateman Mfg. Co. (Agri. Implements & Light Grey Iron Castings)

HACKETTSTOWN—*†American Sawmill Machinery Co. (Saw Mill Machy., etc.)
 *†Bowers, R. Q. & Son (Iron Fdrs., etc.)
 *†Drake, W. H. (Steam Heating Apparatus)
 HADDONFIELD—*Reeves, S. V. (Stoves, etc.)
 HAINESPORT—*†Ronalds & Johnson Co. (Cast Iron Soil Pipe & Plumbers' Castings). (See New York City)
 HARRISON—*†Aiton Machine Co. (Rubber Machy., Hydraulic Presses, etc.)
 *†American Radiator Co. (See Chicago, Ill.)
 *Binsse Machine Co. (Machine Tools, etc.)
 *†Buffalo Refrigerating Machine Co. (Ice & Refrigerating Machy., etc.)
 *Cavagnaro, Jno. J.
 *General Electric Co. (See Schenectady, N. Y.)
 *†Graff, Regen & Cooke (Inc.)
 *Greenfield, W. G. & G. (Steam Engines, Pumps, Screw Presses, etc.)
 *Hyatt Roller Bearing Co.
 *†International Steam Pump Co. (See New York)
 *†MARINE ENGINE & MACHINE Co. (Electric Elevators, Pumps, Castings & Machine Work of all Kinds, Castings 100 lbs. to 40,000 lbs.) (See adv. index, end of book)
 *NATIONAL HOISTING ENGINE Co. (Hoisting Engines, etc.) (See adv. index, end of book)
 *Parker-Bruen Mfg. Co. (Fire Escapes, etc.)
 *Reuther Bros. (Iron Fdrs.)
 *Shriver, T. & Co.
 *Torrance Mfg. Co. (Machinists)
 HASBROUCK HEIGHTS—*Hicks, Geo. J. (Bakers' Machy.)
 *Olmstead, L. H. (Machinist & Power Hack Saws, etc.)
 HIGH BRIDGE—*†Taylor Iron & Steel Co. (Steel Castings & Steel Specialties)
 HIGHTSTOWN—*Peppler, Thomas (Agri. Impls.)
 *†Wickoff, Chas & Bro.
 HOBOKEN—*Autographic Register Co., 10th, Clinton & Grand
 *Baker, Wm. C. (See New York City)
 *Buchholtz, Carl (Wrought Iron & Brass)
 *Consolidated Iron Works (Engines, Machy., etc.), 213 River
 *†Fagan Iron Works
 *†Ferguson, F. & Son (Grate Bars, Propeller Wheels, Machinery, Heavy Green Sand, Castings, etc.)
 *†Fletcher, W. & A. Co. (Marine Engines, etc.), 14th & Hudson
 *†Focht's, Geo. Sons (Dumping Tubs & Buckets, Castings, etc.)
 *Forbes, W. D. & Co.
 *Fredericks, Carl & Co.
 *Hoboken Brass Foundry, 7th & Madison
 *Hunter, Wm.
 *Lutz, Alois M. (Elec. Fixtures, etc.)
 *Mills Novelty Co. (See Chicago, Ill.)
 *Moeller, Henry
 *†New York Switch & Crossing Co. (Frogs, etc.)
 *†Olmer Iron Works
 *Oriental Metal Bed Co. (Brass & Iron Bedsteads), Grand, Clinton & 8th
 *Papay, D. Iron & Wire Cons. Co.
 *Prentice, John
 *†Reedy Elevator Co. (See New York City)
 *†Robins Conveying Belt Co. (See New York City)
 *Schimper, Wm. & Co. (Metal Goods of Every Description, Spinners, etc.), 322 Ferry
 Tietjen & Lang Dry Dock Co. (Shipwrights & Machinists), foot 17th
 *†Union Iron Works (Dump Cars, Tubs, Buckets, Iron & Brass Castings, Coal & Ore Dumping Machinery, etc.)
 HOPE—*†Aten, Henry.
 IRVINGTON—Irvington Mfg. Co. (Tools, etc.)
 *Rademacher, A. E. (Scales, etc.)
 *Tidey, Fred (Wood Working Machinery)
 JERSEY CITY—*†Berthe, Albert, 3718 Hudson
 *†Boynton Furnace Co. (Iron Fdrs., Furnaces, Ranges & Heaters), Pacific av. opp Bramhall av. (See New York City)
 *†Brady Brass Co. (Brass Fdrs. & Finishers), 202 10th
 *Clute, H. C., 380 Wayne
 *Cockburn Barrow & Machine Co., 234 11th
 *CORCORAN, A. J., Inc. (Pumps, Windmills, Tanks & Towers, etc.) (See adv. index, end of book)
 *†Feudtner, Jacob & Co. (Iron Railings, etc.)
 *Flynn, W. S. (Marine Engines & Boilers, etc.)
 *Frank & Hedden Co. (Tools, etc.), 33
 *Fuchs, Henry, 223 Congress
 *Garvey & Greenhalge (Brass Fdrs.), 13
 *†Gibson Iron Works Co. (Fdrs. & Machinists, Dumping Grates, etc.), 170 1st

*†Gothberg, H. & E. (Brass & Bronze Finishers), 139 Cator av
 *Gould & Hedley
 *†Grady, E. C., 169 2d
 *†Griffing, A. A. Iron Co. (Radiators, etc.)
 *Grunkvists Drill Chuck Co. (Drill Chucks, etc.), 20 Morris
 *Hamil, Alex (Structural & Ornamental Iron Work), 426 Montgomery
 *Hull Bros.
 *Jersey Development Co. (Dies & Tools), 46 Morris
 *†Jonson's, Julius Sons (Builders' Castings, Special Machinery, Railway Crossing Gates, etc.), 63 Hudson
 *Kato Mfg. Co. (Bronzes, etc.)
 *Koven, Theo. (Machinist), 114 Webster av.
 *Krouse, Geo. (Heavy Brass & Phosphor Bronze Castings), 154 Morgan
 McCabe, Jas. J., 362 10th
 *McLaughlin, Thos., 53 Essex
 *Mack, Thos. A. Mfg. Co. (Machinists), 401 St. Paul's av
 *Magnus Metal Co., 364 9th
 *†Marcy Stove Repair Co., 340 Grove
 *Maslin, John & Son (Machinists), 165 1st
 *Mesereau Metal Bed Co., 292 Johnston av
 *Miller, Alex & Bro. (Engineers, Machinists & Boilermakers.), foot of Morris
 *New York Metallic Bedstead Co., 184 Pacific av
 *Roth, Jno. (Dies, etc.), 59 Lake
 *Rossiter, MacGovern & Co., ft Morris
 *Schroeder, Edw. (Brass Goods, Lamps, etc.), 716 Jersey av
 *†Smith, Theo. & Sons Co. (Machinists & Fdrs.), ft of Essex
 *†SNEAD & CO. IRON WORKS (Iron Founders & Builders, Iron & Steel Work), ft of Pine. (See adv. index, end of book)
 *Spindler & Deringer (Brass Finishers, etc.), 18 Morris
 *†Steele & Condict (Inc.) (Rock Crusher Parts, Castings & Refrigerating Machines.), 70 Pearl
 *West Pulverizing Machine Co., 40 Pollock av
 *White, Geo. (Automatic Machinery, etc.), 24 Morris
 Wikander Bros. (Elevators, etc.)
 *Williams, E. A. & Son (Brass & Bell Founders), 105 Plymouth
 KEARNY—*Kearney Machine Co.
 *Nelson & Bone (Brass & Bronze Fdry.)
 KENILWORTH—*†Wright, Chas. E. Co.
 LAMBERTVILLE—*†Coombe & Massey (Iron Fdrs.)
 *Kukler, Layton T.
 LEBANON—*†Sovereign Foundry & Mfg. Co. (Saw Mill Machinery, Castings, etc.)
 LINCOLN—*Atlas Mineral & Machine Co. (Mining Machinery, etc.)
 LYNTHURST—*†Leslie Co., Inc. (Pressure Regulators, Brass & Bronze Castings, etc.)
 MADISON—*†Force, C. C. & Son
 MAHWAH—*†AMERICAN BRAKE Shoe & Foundry Co. (Brake Shoes & Miscellaneous Iron & Steel & Gray Iron Castings, etc.) (See adv. index, end of book)
 METUCHEN—*Borgfeldt, N. H. & Co. (Cigar Machy.)
 MILLINGTON—*Nash, Duane H. (Inc.), (Harrows)
 *Nishwitz Mfg. Co. (Harrows)
 MILLVILLE—*Owen, Isaac A. Jr. (Machinist)
 *Thomas, Edw. L. (Machinist)
 MORRISTOWN—*Dutton, Willis H. Co.
 *Genung & Hedges (Machinists)
 MOUNT HOLLY—*†Risdon-Alcott Turbine Co. (Turbines, etc.)
 MULLICA HILL—*†Hoffman, J. M.
 NEWARK—*Acme Foundry (Brass & Aluminum), 56 Elm
 *Ahrend, Herman & Son (Locks, etc.), 179 Van Buren
 *Aibee, H. M. (Hatters' Machy.), 24 Boudinot
 *Almond, David, Hedenberg Works (Machinists), 27 Hacket
 *American Transformer Co. (Electrical Specialties), 145 Miller
 *Anderson, Geo. & Co. (Diamond Cutting Machines)
 *Art Metal Works (Bronzes etc.), 7 Mulberry
 *†Atha Steel Casting Co. (Steel Castings)
 *Atha Tool Co. (Cast Steel Tools, etc.), ft. of Chapel
 *Backus Water Motor Co. (Water Motors, etc.), 172 Penna. av.
 *Bailey, Wm. J. (Jewelers' Tools, Dies, etc.), 52 Columbia
 *Ballard, Geo. M. (Estate of), 41 Hermon
 *Barlow, Arthur E., 28 Orange
 *†Barnett, Oscar, Foundry Co. (Tools & Grey Iron Castings, etc.)

*Belcher, Jos. H., 231 Mulberry
 *Bernz, Otto (Plumbers' Tools & Specialties, etc.), 27 Ashland
 *†Bless & Drake (Inc.), 175 N J R R av
 *Blevney, Jno. C. (Friction Clutches, etc.), 216 High
 §Brabson Bros. Saddlery Hardware, Liberty & Hamilton
 §Brass Founders' Supply Co. (Brass Molds, etc.), 20 Prospect
 *Brooks, E. J. & Co. (Inc.) (See New York City)
 †Burns, Thos. H. & Son, 201 Commerce
 *Burroughs, Charles Co. (Machinist & Hydraulic Machinery), 141 Commerce
 §Bushauer, Peter (Est. of) (Brass Fdry.), 308 Lafayette
 †Central Foundry Co., Lockwood & Morris Canal
 *§Chambers & Ainsle (Brass Work for Steam, Gas & Water & Brass & Composition Castings),
 *Chapman, W. H. & Co. (Machinists), 227 Mulberry
 *Chase, Edw. O. (Fine Machy.), 46 Lawrence
 *†Clark, Jas. T. Co. (Edge Tools, etc.), 72 Adams
 *†CURRIER, CYRUS & SONS (Paper Mill Mach'y, Cranes, etc.), (See adv. index, end of book)
 *Delany, D. & Son (Carriage & Wagon Springs, etc.), Hamilton & Liberty
 *Diffany & Co. (Jewelers' Dies, etc.), 29 Congress
 *†Domestic Sewing Machine Co., 98 Warren
 *Drake, M. S., 15 Sterling
 *Eberhardt Bros. Machine Co. (Gear Cutting Machines & Special Machinery, etc.), 68 Union
 *Electric Motor & Equipment Co. (Motors, etc.), 13 Beaver
 *Emory, Robt. J. & Co. (Machinists), 52 Lawrence
 †Essex Foundry, Murray & Av D
 *§Foster Engineering Co. (Steam & Engineers' Specialties, etc.)
 *Freeman, Arthur W., 67 N. J. R. R. av
 §Goldsmith, C. A. (Brass Fdry.), 42 Cutler
 *†Gould & Eberhardt (High Class Machine Tools), 95 N. J. R. R. av
 *§Gould's, M. Son & Co. (Brass Goods, etc.), 61 Hamilton
 *Guenther, Chas. (General Machinist), 26 Houston
 *†Hanson & Van Winkle Co. (Platers' Machinery & Supplies)
 *Harding Edge Tool Co. (Axes, etc.), Oliver & McWhorter
 *Hartig Standard Gas Engine Co., 14 Commercial
 *†Hay Foundry & Iron Works (Builders' Castings & Iron Work), Plum Point, 1a
 *Healy, Geo., 11 Alling
 *§Hedges & Bro. (Brass Castings & Finishers & Plumbers' Brass Goods), 10 R. R. pl
 *Heller Tool Co. (Farriers' Tools, etc.)
 *†Hewes & Phillips Iron Works (Corliss Engines & Iron & Brass Castings), 9 Railroad pl
 *Huebel Mfg. Co. (Padlocks, etc.), 103 Monroe
 *Hughson & Burckett (Tools, etc.), 34 Mechanic
 *Hydraulic Co. (Gas Stoves & Ranges)
 †Inslee, H. W. (Fdry.), 88 Warren
 *†Isbell-Porter Co. (See New York City)
 †Jost's, Edmund Sons (Machinists & Fdrs.), 352 Plane
 *Klaus, W. J. & Co. (Machinists), 541 Ferry
 *†LAMBERT HOISTING ENGINE Co. (Hoisting Engines & Hoisting Machinery). (See adv. index, end of book)
 §Lawrence, L. & Co., 292 Halsey
 †Lienau's, C. C. Sons, 308 Fairmount av
 *Lowentraut, P. Mfg. Co. (Skates, Tools, etc.), 36 Brenner
 *Loy & Hawrath, 25 Runyon
 §McCarthy, John (Brass Fdry.), 745 N 6th
 †Maher & Flockhart (Iron Fdrs.), 60 Polk
 *Marx-Winkler Co., 475 Washington
 †Meeker Foundry Co. (Malleable & Grey Iron Castings), 95 Clay
 †Metcalf, Jas. & Co. (Machinery Builders, Castings, etc.), 126 Polk
 *Millington & Bradshaw (Tools & Machinery), 69 N. J. R. R. av
 †Morrison Foundry Co., 111 Gotthart
 *Muller, Fred (Hat Machy.), 214 Lackawanna
 *†MUNDY, J. S. (Hoisting Engines, etc.) 22 Prospect. (See adv. index, end of book)
 *National Lock Washer Co. (Lock Washers, etc.), 65 Johnson

*National Saw Co. (Saws & Sawing Specialties), 15 River
 §Newark Brass Works, 17 Mulberry
 †Newark Foundry Co., Malvern & Adams
 *Newark Gas Engine Co. (Gas Engines), 676 N 6th
 *New Jersey Machine Co. (Cigar Making Machinery), 120 Pacific
 *Noble & Hunt (Machinists), 359 Mulberry
 *Ohl, Geo. A. & Co. (Sheet Metal Working Machy., Trunk Mfrs. Machy., etc.), 157 Oraton
 *Osborne, C. S. & Co. (Tools, etc.), 96 Mechanic
 §Phoenix Lock Works, 22 Commercial
 *Plumb, David S. (Fine Machy.), 57 Park
 *Positive Lock Washer Co. of America, Ave A
 *Redman, C. H. & Co. (Tools, Machines, etc.), 220 High
 †§Riverside Foundry, 451 Riverside av
 †Riverside Mfg. Co. (Furnace Regulators & Heating Specialties), 162 Riverside av
 *†Royal Machine Co. (Electric, Special Machinery, etc.), 61 N. J. R. R. av
 §Riley-Klotz Mfg. Co. (Trunk & Bag Trimmings), 19 Mulberry
 †Sacks, Louis Iron Fdry (Gray Iron Castings), Hamburg pl & Av L
 *Sayre, L. A. & Co. (Tools, etc.), 332 Mulberry
 *Seymour & Whitlock, Inc. (Woodworking Machinery & Tannery Equipments), 43 Lawrence
 *§Shaw, W. & J. H. (Brass Fdrs., etc.)
 *Skinner & Leary (Engineers & Machinists), 13 R. R. pl
 *Skipp, Jas. & Son (Pearl Button Machy.), 25 Hackett
 *Sloan & Chase Mfg. Co., Ltd. (Machine Tools), 297 Washington
 §Steffens, A. T. & Co. ((Saddlery, Hardware), 260 Morris av
 *Sterling-Meeker Co. (Fare Registers, Car Brakes, etc.), 420 Ogden
 *Stucky, Jacob, 17 Alling
 *†Thatcher Furnace Co. (See New York City)
 *Tirrill's Gas Machine Lighting Co. (See New York City)
 *†Traud, Alex. Co. (Embossing Machy.), 5 Maine
 *Tucker, C. F. & Co. (Tool Makers), 93 Green
 Turner Machine Co. (See Danbury, Conn.)
 *†§Universal Caster & Foundry Co. of N. J., 108 Adams
 *†§Watts-Campbell Co. (Corliss Engines & Iron & Brass Castings), 298 Ogden
 †Wheaton, A. W. Brass Works, 68 N. J. R. R. av
 *White, Ira F. & Son (Hdw. Specialties, etc.)
 *Wright, L., Jr. (Machine Works), 9 Alling
 Yule & Carley Mfg. Co. (Hat Machy.), 28 Eagles
 *Zeh & Hahnemann (Presses, Dies, etc.)
 §Zusi, Edw. A. (Brass Fdry.), 101 Monroe
 NEW BRUNSWICK—*Consolidated Fruit Jar Co. (Metal Specialties)
 *Crawford Mfg. Co. (Machinery Mfrs.)
 †Empire Foundry Co. (Gray Iron Castings from 1 pound to 5 ton)
 *Kilbourn Knitting Machine Co. (Knitting Machinery, etc.)
 *Kilbourn Mfg. Corp'n (Mach'y)
 *Lea, Thos. (Boring Tools, etc.)
 *Neverslip Mfg. Co. (Horseshoes & Toe Calks)
 *Potter Mfg. Co. (Motors, etc.)
 *†Waldron, Jno. Co. (Machinery & Castings)
 OCEANIC—*Yerrington, Henry W.
 ORANGE—*Bates Mfg. Co. (Automatic Numbering Machines, etc.)
 *Bulkley, Henry W. (Steam Pumps & Condensers)
 *Edison Mfg. Co. (Electrical Specialties)
 *Edison Phonograph Works, Inc. (Phonographs)
 *National Phonograph Co. (Phonographs)
 *Orange Machine & Mfg. Co. (Machinists)
 *Pike Adding Machine Co. (Adding Machines)
 *Townsend, S. P. & Co. (Lawn Mowers)
 PASSAIC—†Binns, Henry (Iron Fdry.)
 *De Vries Bros. (Machinists)
 †Eagle Iron & Brass Foundry, Inc.
 *Lyall, J. & W. (Textile Machy., Looms, etc.)
 *Richardson Scale Co. (See New York City)
 *†Robins Conveying Belt Co. (Conveying Machinery). (See New York City)
 *Uehling Instrument Co. (Pyrometers, Composemeters, etc.)

*†Wonham-Magor Engineering Works (Steel Cars, Track Switches, Turntables, etc.)
 PATERSON—*§Asbell, S. J. Co. (Brass Goods)
 *Atherton Machine Co. (Textile Machinery, etc.)
 †Barker, Fred. Co. (Iron Fdrs.)
 *Bogert-Carlough Co.
 §Casson & Middleton (Brass Fdrs.)
 *†§Eastwood, Benj. Co. (Textile Machy, Shafting, Pulleys & Hangers, Iron & Brass Castings, etc.)
 *†Finigan-Zabriskie Co. (Cordage Mach'y, etc.)
 *Fischer Mfg. Co.
 *Gerber, Eugene
 †Hilton, Saml.
 *Johnson-Van Vlaanderen Machine Co.
 *King-Quick-Gerber Co. (Machinists)
 *Knapp, C. F. (Textile Machy, etc.)
 *†§McNab & Harlin Mfg. Co. (See New York City)
 *†Paterson Machine Works
 *Ramsey & Gore Mfg. Co. (Small Textile Mach'y)
 *†Rogers Locomotive Works (See New York City)
 *Royle, John & Sons (Photo Engraving, Rubber & Textile Machy., etc.)
 *Shaw & Cocker Mach. Co. (Silk Machy.)
 *Sipp Electric & Machine Co. (Gas & Gasoline Engines)
 §Taylor, Robt. & Son (Brass Fdry.)
 *Terhune, J. I. Machine Works (Silk & Velvet Finishing Machy, etc.)
 *†Watson Machine Co. (Cordage & Silk Mill Machy., Castings, etc.)
 *Widmer Bros.
 *Wood, Warren
 *Zaumsell, Arns & Maylor
 PAULSBORO—*Cox, I. G. & Bro. (Ag'l. Impls, etc.)
 PERTH AMBOY—*†Marcy Stove Repair Co. (Stove Repairers)
 *Perth Amboy Dry Dock Co.
 *†Perth Amboy Foundry & Machine Co.
 Raritan Dry Dock Co.
 *†Schantz & Eckert (Machinery Builders)
 *†White, P. & Sons (Castings, etc.)
 PHILLIPSBURG—*†Firth, Roland & Son (Grinding Machines, etc.)
 *Tippett & Wood
 *†Warren Foundry & Machine Co. (Cast Iron Pipe & Water Works Specialties)
 PLAINFIELD—*Laing Machine Auto Repair Co.
 *Manganese Steel Safe Co. (Safes, etc.)
 *†Quincy-Manchester-Sargent Co. (Milling Machines, Cold Saws, etc.)
 *†Potter Printing Press Co. (Printing Presses, etc.)
 *Rushmore Dynamo Works (Projectors Acetylene Generators, etc.)
 *†Scott, Walter & Co. (Printing Presses, etc.)
 POMPTON—*Ludlum Steel & Spring Co.
 POTTERSVILLE—*Excel Mfg. Co. (Grinding Mill, Crushers & Pulverizers)
 RAHWAY—*†Gordon Press Works (Printing Presses, etc.)
 RARITAN—*†Kenyon, D. R. & Son (Textile Machy.)
 RED BANK—†Adcock, W. H.
 *†Roberts Safety Water Tube Boiler Co.
 RIEGELSVILLE—*Taylor, Stiles & Co. (Machine Knives, etc.)
 RIVERSIDE—*McWhorter Mfg. Co. (Agrl. Impls)
 ROCKAWAY—†Hoagland's, M. Sons Co. (Iron Fdrs.)
 ROSELLE—*Shedd Electric Co. (Motors, etc.)
 *†Watson-Stillman Co. (Hydraulic Mach'y) (See New York City)
 SALEM—*Ayars Machine Co. (Canning & Can Making Machinery, etc.)
 §Muckenhirn, Chas. H.
 *†§Salem Brass & Iron Mfg. Co.
 †Stanley, Jno. W.
 SMITHVILLE—*†Smith, H. B. Machine Co. (Wood Working Machy., etc.)
 SOMERVILLE—†Carbon Stove & Range Co. (Stoves, Ranges, etc.)
 SOUTH RIVER—*Kelch Bros.
 SOUTH VINELAND—Bidwell R. O. (Sand Washing Machinery)
 TOMS RIVER—*Toms River Machine Works (Machinery Supplies)
 TRENTON—*Auers Hardware Mfg. Co.
 *Baker, Wm. H. (Machinist)
 *Barbour Bros. (Dies, etc.)
 *Billingham, P. & Co.
 *Butterworth, Wm. H. & Bro. (Ag'l. Implements, etc.)
 *Clifford, C. W. (Tools, etc.)
 *†Crossley Mfg. Co. (Pottery, Tile & Clay Machinery)
 *†De Laval Steam Turbine Co.
 *D'Unger, Elwood

*†Fisher & Norris (Anvils, etc.)
 *Freeman, E. H. Electric Co. (Electric Specialties)
 *Gillingham, A. B.
 *Ivens, Wm. H. Sons Co. (Pottery, Mattress & Spring Bed Machinery)
 *Logan, W. P.
 *†McFarland Foundry & Machine Works (Wire Dies, etc.)
 *†MacKenzie's, Duncan, Sons Co. (Steam Engines, Heavy Machinery, etc.)
 *†Mott, J. L. Iron Works. (See New York City)
 †Oilphant Steel & Iron Co.
 *†Reeves Foundry Co. (Heavy & Machy Gray Iron Castings)
 †Skillman Hardware Mfg. Co.
 *Spracklin Boiler & Machine Co.
 *Stahl, H. E. (Machinist)
 *Steinert, Joseph
 †§Superior Iron & Brass Foundry
 *Sutphin, E. E. (Machinist)
 *†Thropp, J. E. Sons Co. (Marine Engines & Rubber Mill Machy, etc.)
 *§Trenton Brass & Machine Co. (Plumbers' Brass Goods)
 *†Trenton Iron Co. (Elevating & Conveying & Wire Pointing Machy)
 †Trenton Malleable Iron Co.
 *Watson, John & Sons Co. (Axles & Machinists, etc.)
 *Union Computing Machine Co. (Computing Scales, Cash Registers, etc.)
 *Wainwright & Kelley
 VINELAND—†Armstrong Iron Works
 *Blaisdell, Arlond H. (Machinist)
 *Frost & Walls (Gasoline Engines)
 *Gage Tool Co. (Tools)
 *Jackson Vise & Tool Co. (Vises, Tools, etc.)
 *Keighley, Wm. B. (Shoe Machinery)
 *Levens Mfg. Co. (Tools, etc.)
 *§Weaver, Adam (Brass Fdry.)
 WEST HOBOKEN—†Courtman, W. F.
 WOODBINE—*Bayard, M. L. & Co. (Tools, etc.)
 WOODRIDGE—*Blockhaus, Henry
 *Knowles, Adam
 WOODSTOWN—*†Wood, Walter A., Mowing & Reaping Machine Co.

NEW MEXICO.

ALBUQUERQUE—*†Albuquerque Fdry. & Machine Works
 EAST LAS VEGAS—*†Adlon, J. C.

NEW YORK.

AKRON—†Thayer, Theodore & Son.
 ALBANY—*†§Albany Brass & Iron Co. (Engineers', Brewers' & Plumbers' Supplies & Brass Founders & Machinists), 174 B'way
 *†Albany Foundry Co. (Stoves), Van Rensselaer Isl.
 *§Alhany Steam Trap Co. (Steam Traps)
 *†§Angus, C. H. (Iron, Brass, Bronze & Aluminum Castings, Finishing & Plating, etc.), 319 N Pearl
 *Breslin Bros. (Machinists), 68 Church
 *Burdick & Son (Stove Specialties, Dies, etc.), Hamilton cor Mosher
 *†Campbell, Harry E. (Arch'l Iron, etc.)
 *†§Clark, John W. (Gray Iron, Brass, Bronze & Aluminum Castings & Light Machine Work), Pleasant nr Pearl
 *Clark, Thos.
 *†Climax Road Machine Co. (See Marathon, N. Y.)
 *†Consolidated Car Heating Co. (Car Heaters, etc.), 423 N Pearl
 *§Cox Brass Mfg. Co. (Valves, Pumps, etc.)
 *Dederick's, P. K. Sons (Hoisting Engines, Baling Presses, etc.), Tivoli
 *§Fitzgerald, Jno. L. (Brass Fdrs. & Specialties, Machinists, etc.)
 *†Gaynor, Peter F.
 †Hartnett, Jno. J. (Iron Foundry), 16 De Witt
 *Kelly, Luke J. (Lifting Jacks, Windlasses, etc.), 307 N Pearl
 *Kemp, Jas. N. (Grinding & Polishing Machinery, etc.), 887 Broadway
 *†Littlefield Stove Co. (Stoves & Ranges)
 *†McKinney, Jas. & Son (Builders' Iron Work, etc.), 929 B'way
 *Nicholson, Aaron (Machinist), 11 Church
 †Page's, Isaiah Sons (Grey Iron Castings, etc.), 60 Liberty
 *†Rathbone, Sard & Co. (Stoves), N Ferry & Rathbone
 *Skinner & Arnold Co. (Steam Engines, Propeller Wheels, etc.), 207 B'way
 *Stevenson & Leonard Machine Co.

*†Thacher, Geo. H. & Co. (Car Wheels)
 *†Townsend Furnace & Machine Shop Co.
 *Van Nohuis, E. C., 41 Liberty
 ALBION—*Edgar, M. & R. (Machinists)
 ALEXANDRIA BAY—*Tessey, Lewis
 ALFRED—*Rogers Machine Tool Co. (Boring & Turning Mills)
 AMBER—*Kenyon, Wm.
 *†Newman, Addison
 AMENIA—*†Fry, B. H. (Stoves)
 AMENIA UNION—†Buckley, Chas. E. (Plows, etc.)
 AMSTERDAM—*Hayflinger, John
 *†Inman Mfg. Co. (Paper Box Machy.)
 *Johnson, C. P. (Machinist)
 *Klauder-Weldron Dyeing Machine Co. (Textile Machy)
 *MacCordy Button Machine Co. (Button Machy, etc.)
 †Perkins Foundry Co.
 *Shuler, D. W. & Son (Elliptic & Coil Springs, etc.)
 *Shuler, W. S. Spring Co. (Springs, etc.)
 *†Smeallie Bros. (Pumps, Engines & Engravers' Machy, etc.)
 *Union Special Machine Co.
 ANGOLA—*Emblem Mfg. Co. (Bicycles)
 ANTWERP—†Hogan Bros. (Iron Fdry.)
 ATHENS—*†Athens Fdy. & Mach. Shop Co.
 †Travis, D. W.
 ATTICA—*Glor Bros. & West
 AUBURN—American Wringer Co. See New York City
 *Birdsall Engine Co. (Stationary Engines, etc.)
 *Bowen Mfg. Co. (Machine Screw Work & Oiling Devices, etc.)
 *Bowen & Quick (Threshers, etc.)
 *†Clapp, E. D. Mfg. Co. (Carriage Hdws., etc.)
 *†Crane, W. W. Fdry. & Machine Works (Drop & Trip Hammers, etc.)
 *Diamond Novelty Co. (Vending Machines)
 *Eccles, Richard Co. (Drop Forgings, Carriage, etc.)
 †Enterprise Foundry Co.
 *Henry & Allen (Machine Knives, etc.)
 *†International Harvester Co. (Harvesting Machy., etc.), Osborne Plant
 §Leather & Brass Mfg. Co. (Air Compressors, etc.)
 *†McIntosh, Seymour & Co. (Steam Engines, etc.)
 *Malcolm Rifle Telescope Mfg. Co.
 *Meyer & Co. (Iron Nuts, Axle Collars, etc.)
 *Wadsworth, David & Son (Scythes, etc.)
 AVON—*†Champion Drill Co. (Grain Drills, Cultivators, etc.)
 BALDWINVILLE—*American Gasoline Motor Co. (Gasoline Motors, etc.)
 *Fancher Machine Co.
 *†MORRIS MACHINE WORKS (Steam Pumps & Steam Engines, etc.) (See adv. index, end of book)
 *Young, Jno. M. (Machinist)
 BALLSTON SPA—*†Davison-Namack Foundry Co.
 BATAVIA—*Baker Gun & Forging Co. (Shot Guns, etc.)
 *†§Batavia Brass & Iron Novelty Works
 *Batavia Clamp Co. (Clamps, etc.)
 *Batavia Machine Co.
 *Bidwell, C. H. Thresher Co. (Inc.), (Agricultural Implements & Engines)
 *†Harrington-Wiard Co. (Gasoline Engines, etc.)
 *†Johnston Harvester Co. (Agl. Impls.)
 *Rowell Machine Co.
 *†Wiard Plow Co. (Plows & Agl. Impls.)
 BELMONT—*†Clark Bros. Co. (Heavy Duty Gas Engines, Saw Mill Machy., etc.)
 BERGEN—§Miller, Orville (Brass Fdry.)
 BINGHAMTON—*American Fork & Hoe Co. (Forks, Hoes, etc.) (See Cleveland, O.)
 Bowers, L. M. & Co. (Anchors, etc.)
 *Canfield, P. B. (Gas Engines)
 *Central Mfg. Co. (Gas Irons, etc.)
 †Crandal, Stone & Co. (Carriage Hardware, etc.)
 *Deyo, R. H. & Co. (Gas Engines, etc.)
 †Diamond Foundry
 *Doolittle, S. B. & Son (Flue Cleaners)
 *Gaylord & Eltapence Co. (Machinists, etc.)
 *Heath, Roht. S. (Machinist)
 *†Innes & Demarest Stove & Heater Co. (Stoves, Heaters, etc.)
 *§International Time Recording Co. (Time Recorders & Time Stamps)
 *†Jones of Binghamton (Scales, etc.)
 *Marvin Electric Drill Co. (Electric Drills, etc.)
 *†Osgood Scale Co. (Scales, etc.)
 *Russell, Ross M.
 *†Shapley & Wells (Steam Engines, etc.)
 *†Stow Mfg. Co. (Flexible Shafts & Electric Motors, etc.)

BOLIVER—*Beatty & Jordan (Machinists)
 *†McDonnell & Brennar
 BRASHER FALLS—†Kennehan, P. E.
 BROWNVILLE—*†Brownville Iron Works (Paper Mill Mach'y)
 BUFFALO—†Acme Steel & Malleable Iron Works (Steel & Malleable Iron Castings), 245 Military rd
 *Alberger Co. (Gas Engines)
 *Aldrich Mfg. Co. (Copper & Brass Goods), 55 Illinois
 †§Alloys Founding Co., 50 Mississippi
 *†American Brake Shoe & Fdry. Co. (See Mahwah, N. J.)
 *†American Car & Foundry Co. (See St. Louis, Mo.)
 *†American Radiator Co. (See Chicago, Ill.)
 *American Shading Machine Co., 145 Mayer av
 *Auburn Machine Works, 290 Auburn av
 *Barcalo Mfg. Co. (Brass & Iron Bedsteads), 140 Kentucky
 *†Bell, David Engineering Works (Ship Bldrs., Steam Hammers, Fdrs. Brass & Iron, etc.), 406 W Ferry
 *Blackhall Mfg. Co. (Bookbinders' Machinery), 10 Lock
 *Brennan, Richard (Dredging Tools, etc.), 128 S Mich
 *†Brown Car Wheel Works (Car Wheels, etc.), Howard & Thomas
 *Bryant, O. Sons & Co. (Special Machinery, etc.), Dewitt & Bradley
 Buffalo Brake Beam Co. (See New York City)
 *†Buffalo Car Wheel Foundry Co. (Car Wheels, etc.), Scott & Larkin
 *†Buffalo Co-operative Stove Co. (Stoves), Amherst & Tonawanda
 †Buffalo Crucible Castings Co. (Steel), 25 Washington
 Buffalo Dry Dock Co. (Shipbuilders)
 *Buffalo Engine Co. (Engines, Mill Machinery, etc.), 272 Michigan
 *†Buffalo Forge Co. (Engines, Blowers, etc.), Broadway & Mortimer
 †Buffalo Foundry Co. (Grey Iron & Semi-steel Castings up to 100 ton)
 *Buffalo Gasoline Motor Co. (Marine & Automobile Motors), Niagara & Auburn av
 *Buffalo Gear & Pattern Works, 16 Elk
 *Buffalo Machinery Co., 26 Burwell pl
 *§Buffalo Meter Co. (Water Meters, etc.), 290 Terrace
 *†Buffalo Pitts Co. (Agl. Impls., Engines, etc.)
 *†Buffalo Radiator Co. (Cast Iron Radiators)
 *Buffalo Reduction Co. (Fertilizers, etc.)
 *†Buffalo Scale Co. (Brewers & Malsters, Testing Machines, etc.), 81 Scott
 *†Buffalo Steam Pump Co. (Steam Pumps, etc.), 490 Broadway
 Buffalo Steel & Shafting Works (Polished Steel Shafting, etc.), ft Baitz av
 Buffalo Tool & Machine Co. (Woodworking Mach'y), 176 Terrace
 *Cary Safe Co. (Safes & Locks), Chicago & Scott
 *†§Case, W. A. & Son Mfg. Co. (Mfrs.', Plumbers' & Steam Fitters' Castings, etc.), 31 Main
 *Centaur Motor Vehicle Co. (Gas & Electric Motors, etc.), 59 Franklin
 *†Clark Mfg. Co. (Iron Fdrs. & Hardware Specialties), 260 Chandler
 *Columbia Tool Co.
 *†Contractors Plant Mfg. Co. (Contractors' Machy & Tools, etc.), 129 Erie
 *Crowell, David J., 198 Terrace
 *Darling, W. J. Machine Co. (Shoe Machinery), 844 Sycamore
 §Deck Bros., 20 Indiana
 *Devine, Jos. P. (Engines, etc.), Mooney bldg.
 *Diamond Saw & Stamping Works (Hack Saw Machines)
 *†Dopp, H. W. Co. (Soap Machy., etc.)
 *Double Truss Cornice Brake Co. (Sheet Metal Working Mach'y)
 *Driscoll & Fletcher (Printing Presses, etc.), 82 Ellicott
 *†East Buffalo Iron Works, 9 Grimes
 *Eastman Machine Co. (Cloth Cutting Machines), 45 N Division
 *Empire Forge & Iron Co. (Iron Specialties), 32 Indiana
 *Empire Machine & Stamping Co., 59 Terrace
 Empire Shipbuilding Co., ft Genesee
 †Ernst's, Chas. F. Sons (Iron Fdry. & Bldr's Iron Work), 65 Latham

*†Farrar & Trefts (Steam Engines), 60 Perry
 *Feine, August (Iron Fdry. & Bldrs. Iron Work), 152 Terrace
 *†Fillmore Av. Foundry & Iron Works, 153 Fillmore av
 *Frank Machinery Co. (Woodworking Machinery), 50 Mechanic
 §Fries & Co. (Plumbers' Brass Goods)
 *†Frontier Engine Works (Steam Engines, etc.), ft Illinois
 *†Frontier Iron Works, 2 Auburn av
 *†General Railway Signal Co. (Railway Signals, etc.), 1738 Elmwood av
 *†Ginther's, J. Sons (Iron Fdrys. & Bldrs. Iron Work, etc.), B'way & Pratt
 *Great Eastern Elevator Co., Ganson
 *Guillott, Wm. Metal Gasket Co., 1443 Niagara
 *Heiser, Wm. (Machinist), 114 Clinton
 §Hofeller Brass Fdry. Co. (Brass, Phosphor Bronze & Aluminum Castings, etc.), 146 Virginia
 *Holl Mfg. Co. (Spray Pumps, etc.), 333 Main
 *†Holmes, E. & B. Machinery Co. (Wood Working Mach'y), 59 Chicago
 *Hoolihan, A., 384 4th
 *†Howard Iron Works (Elevators & Printers' & Bookbinders' Machinery, etc.), 287 Chicago
 *†Iroquois Iron Works (Steam Road Rollers, Asphalt Mach'y & Tools, etc.)
 *Jaynes Mfg. Co.
 Jetter Mfg. Co. (Hardware Specialties, Tools, Files, etc.), 861 Jefferson av
 *Jewett, Jno. C. Mfg. Co. (Brass Finishers, etc.), 249 Elm
 *†Jewett & Co. (Stoves, Ranges, etc.), 32 Mississppi
 *Josef, E. E. Mfg. Co. (Brass Finishers, etc.), 80 Wash'n
 *Kelm, Jno. R. (Cycle Fittings & Hardware Specialties, etc.), Kensington av & Erie tracks
 †Kellogg Iron Works (Arch. Iron & Steel Work), Mutual Life Bldg
 *Kelsey Co. (Bicycle Parts & Sundries, etc.), 45 Niagara
 *Keystone Mfg. Co. (Ratchet Drills, Wrenches, etc.), 41 Chandler
 *Krasselt, Chas. (Gen'l Machinist, etc.), 101 Ash
 *†Lake Erie Engineering Works (Engines, Pumps & Heavy, Rough & Machined Semi-Steel Castings), Chicago & Perry
 *†Laylor, Jas. J., 214 Chicago
 *Lazier Engine Co. (Gas Engines), Ellcott sq
 †Liberty Brass Foundry, 1310 Niagara
 *Lobee Pump & Mach'y Co., 140 Terrace
 *†LUMEN BEARING CO. (Brass, Bronze & Copper Castings, Lumen Bearings, etc.) (See adv. index, end of book)
 *§Magnus Metal Co. (Babbitt, Anti-Friction Metals, etc.)
 *Manzel Bros. (Automatic Oil Pumps, etc.), 46 B'way
 *§Mante, Jacob & Sons, 23 Kane
 *McCarthy Bros. & Ford (Electrical Specialties, etc.), 45 N Division
 §McCutcheon, C. H. (Brass Fdry), 18 Ohio
 *Mey Chain Belting Engineering Works (Chain Belting & Elevating & Conveying Machinery, etc.), 34 Washington
 *National Brake Co. (Inc.), Ellicott sq
 *†New York Car Wheel Co. (Iron Fdrys., Car Wheels & Couplings, etc.), Niagara & Forest av
 §Niagara Falls Brass Works, 146 Virginia
 *†NIAGARA MACHINE & TOOL Works (Iron Founders, Punches, Presses & Sheet Metal Working Mach'y, etc.), Jefferson, Superior & Randall
 *Niagara Radiator Co.
 *†Noye Mfg. Co. (Steam & Gas Engines & Flour Mill Mach'y), 50 Lakeview av
 *O. K. Machine Works (Machinists), 75 Ellicott
 §O'Brien's Foundry (Brass Fdrys., etc.), 39 Indiana
 *Olin Gas Engine Co. (Gas & Gasoline Engines), 12 Lock
 *Ollver, A. F. Mfg. Co., 60 Cherry
 *Ollver, W. W. Mfg. Co. (Jewelers' Tools & Mach'y, etc.), 1483 Niagara
 *Pierce, Geo. N. Co. (Bicycles & Automobiles, etc.), 686 Main
 *Pierce, Wm. B. Co. (Boiler Tube Cleaners), 327 Wash'n
 *†Pratt & Letchworth Co. (Steel & Malleable Iron Castings & Saddlery Hdw., etc.), 189 Tonawanda

†Pohlman, Jno. W., E Delevan av & E. R. R.
 *Queen City Engineering Co. (Steam Pumps, Engines, etc.), 49 Illinois
 *§Ray, Geo. A. Mfg. Co. (Brass & Copper Goods), 1489 Niagara
 *†Reading Car Wheel Co. (Car Wheels, etc.), Fidelity bldg.
 *Robertson Mfg. Co. (Hdw. Specialties, Grading Tools, etc.), 1848 Niagara
 *Rogers, S. C. & Co. (Brazing & Excelsior Mach'y, etc.), 10 Lock
 *†Ross, Josiah (Wood Working Machinery), 1443 Niagara
 *Ruger, J. W. Mfg. Co. (Bakers' Mach'y, etc.), Chicago & Perry
 *§Schmahl, John H. & Albee, 471 Ellicott
 *§Sherwood Mfg. Co. (Brass Fdrys., Engine & Boiler Specialties, etc.), 1702 Elmwood av
 *Sizer Forge Co. (Steam Forges, etc.), Ft. Jefferson
 *Smith, W. H. Mfg. Co. (Hot Air Engines), 8 Lock
 *Smiths', John E. Sons Co. (Tanners' & Butchers' Machinery, etc.), 50 B'way
 *Springer Machine Works, 16 Pearl
 *Squier, Geo. L. Mfg. Co. (Plantation Mach'y), 490 B'way
 †Standard Foundry Co. (Gray iron castings), 48 Lakeview av
 *Star Forge Co. (Portable Forges, etc.), 150 Terrace
 *Sterling Engine Co. (Marine Engines, etc.), 119 Grant
 *†§Stewart Heater Co. (Brass Fdry., Boiler Feed Heaters, Power Pumps, etc.), Norfolk av
 *Stoll, D. H. Co., 30 Lansing
 *Taber Pump Co. (Rotary Brewery Pumps, etc.), Swan & Ellicott
 *†§Taylor, W. P. Co.
 *Thomas, E. R. Motor Co. (Motor Bicycles, etc.)
 *Throop Perforating Co. (Perforating Machines), 80 Terrace
 *Timmins & Butler, 286 Ellicott
 †Trout, H. G. Foundry Co., 226 Ohio
 *U. S. Hame Co. (Steel Hames, etc.), Watts & Tonawanda
 *Weeks Scale Works (Scales, etc.), 361 7th
 *Wegner Machine Co. (Ice & Refrigerating Plants), Perry & Mississippi
 *Weiss, Ferdinand (Woodworking & General Machinery), 60 Indiana
 *Western Inspection Co. (Fire Extinguishers, etc.), 20 Nicholas pl
 White, L. & I. J. Co. (Edge Tools, Machine Knives, etc.), 143 Perry
 *Whitman Mfg. Co. (Machinists), 178 Ohio
 *Wolfe, Arthur P. (Automatic Mach'y, etc.), 430 Niagara
 *§Zero Valve & Brass Mfg. Co., 417 Chicago
 CALEDONIA—*Caledonia Bean Harvester Co. (Bean Harvesters, etc.)
 CAMBRIDGE—*†Lovejoy, H. H. & Son (Plows & Grey Iron Castings)
 CAMDEN—*†Camden Water Wheel Works
 *Hynes, Frank R.
 CANANDAIGUA—*†Davidson, A., Foundry Co. (Plows & Castings)
 *Salnave, W. A. (Machinist)
 CANASTOTA—*†Cady, C. N. (Machinist)
 *Mahan, James
 *Marvin & Casler Co. (Elec. Specialties)
 *†Patten & Stafford Co. (Rakes, Harrows, Light & Medium Gray Iron Castings, etc.)
 *Watson Wagon Co. (Dump Wagons, etc.)
 CANTON—†Dishaw Bros. (Iron Fdry.)
 CARTHAGE—*†Carthage Machine Co.
 *†Ryther & Pringle Co.
 CASTILE—*†Castile Chilled Plow Co. (Plows, etc.)
 CATO—†Dutton, E. Q. & Co. (Iron Fdrys. & Plows, etc.)
 CATSKILL—*†Catskill Fdry. & Machine Works (Machinists & Fdrys., Gears, Pinions, etc.)
 *Gaylord, J. F. (Spray Pumps, etc.)
 CATTARAUGUS—*Milne Mfg. Co. (Plumbers' Supplies, etc.)
 CENTRAL BRIDGE—*Campbell, S. K. Co. (Threshers, etc.)
 CHAMPLAIN—*†Sheridan Iron Works
 CHARLOTTE—*Morrison, H. D.
 CHERRY CREEK—†Annals, A. W.
 CHURCHVILLE—†Snyder & Hughes (Iron Fdry.)
 CLYDE—*Rodwell, G. (Machinist)
 *†Wood, S. W. & Son (Engines, etc.)
 COBLESKILL—*†Harder Mfg. Co. (Threshers, Clover Hullers, etc.)
 †Rickard, Ira D. (Iron Fdry.)
 COHOES—*Beattie Machine Works

*†Campbell & Clute Machine Co. (Textile & Knitting Mach'y & Grey Iron Castings)
 *†§COHOES IRON FOUNDRY & MACHINE Co. (Slashing Machinery & Elevators & Brass & Iron Castings) (See adv. index, end of book)
 *†Cohoes Rolling Mill Co. (Textile Mach'y, etc.)
 *Excelsior Machine Co. (Potato Diggers)
 *Kennedy, Thos. & Son (Textile Mach'y.)
 *McCreary, Edw.
 *†Rensselaer Mfg. Co. (See Troy, N. Y.)
 *Smith, Geo. E. Textile Mach'y. Co.
 Union Special Machine Co. (See Chicago)
 COLD SPRING—*†Cornell, J. B. & J. M. Co. (See New York City)
 COPAKE IRON WORKS—*†Columbia Plow Works (Plows, etc.)
 CORNING—*†Allen, E. R. Foundry Co. †Machinery & Bldrs.' Castings, etc.)
 *Canfield Brake Co.
 †Corning Mfg. Co. (Furnaces)
 *†Hood Furnace & Supply Co.
 *†Symington, T. H. Co. (R. R. Specialties, etc.)
 CORTLAND—*†Cooper Bros. (Founders & Machinists)
 *Cortland Specialty Co. (Carriage Hdw., etc.)
 †Keator, Samuel
 COXSACKIE—*†American Valve Co. (Valve Mfrs., etc.)
 *†Kennedy Valve Mfg. Co. (Valves, Hydrants, etc.) (See New York City)
 CROGHAN—†Farney, J. C. & Son
 CROTON FALLS—*Higley Machine Co. (Metal Cutting Off Machines)
 *Juengst, Geo. & Sons
 CUBA—†Graves, A. H. (Iron Fdry.)
 DANSVILLE—*Engert, Geo. J.
 *†Sweet, Geo. Mfg. Co. (Mowers & Reapers, etc.)
 DEPEW—*†Gould Coupler Co. (Car Couplers & Malleable Iron Castings.) (See New York City)
 *§Mangus Metal Co. (Babbitt Anti-Friction Metals, etc.) (See Buffalo)
 *Railway Steel Spring Co. (See New York City)
 DEPOSIT—†Deposit Foundry Co.
 DESPATCH—*†Ontario Drill Co. (Grain Drills, etc.)
 DOLGEVILLE—*Eaton Machine Co.
 *Menge, Wm. (Machinist)
 DUNKIRK—*†American Locomotive Co. (See New York City)
 *Fletcher, Chas. H. (Machinist)
 *Mulholland Co. (Carriage Springs, etc.)
 *Romer Axe Co. (Axes & Edge Tools)
 *†United States Radiator Co. (Radiators, etc.)
 EAST AURORA—*†Peek, S. H. (Plows, etc.)
 EBENEZER—*Gillfillian, F. C. (Gas Regulators)
 EDMESTON—†Green, Nelson L.
 ELBA—*†Barr, Newton L.
 ELBRIDGE—*Elbridge Electrical Mfg. Co. (Dynamos & Motors, etc.)
 *Elbridge Motor & Tool Co.
 ELLENVILLE—†Hoyt, Canner & Co. (Castings, etc.)
 ELMIRA—*American La France Fire Engine Co.
 *Cronk & Carrier Mfg. Co. (Hardware Specialties, Door Hangers, etc.)
 *Eclipse Machine Co. (Coaster Brakes, etc.)
 *†Elmira Boiler & Iron Works
 †Elmira Heater & Foundry Co.
 *Elmira Machine Works (Specialties)
 *Field Force Pump Co. (Pumps, etc.)
 *Hildreth Clutch & Mach'y. Co.
 *†Kennedy Valve Mfg. Co. (See New York City)
 *Moffat, Jas. W. (Machinist)
 *§Swift Lubricator Co. (Lubricators, Valves, etc.)
 ENDICOTT—*Bundy Mfg. Co. (Adding Machines)
 FAYETTEVILLE—*G. & C. Mfg. Co. (Hdw. Specialties)
 FISHKILL ON THE HUDSON—*†Dutchess Tool Co.
 *†Fishkill Landing Machine Co. (Steam Engines, etc.)
 *Potter-Morgan Co. (Spring Brakes, etc.)
 FONDA—*Mohawk Machine Shop
 FORT PLAIN—*Empire State Metal Wheel Works (Metal Wheels, etc.)
 *§Yerdon, Wm. (Hose Bands, etc.)
 FRANKFORT—*†Acme Road Machinery Co. (Road Machinery, etc.)
 *Continental Tool Co.
 *Pratt Chuck Co. (Chucks, etc.)
 *§Utica Steam Gauge Co. (Steam Gauges, etc.)
 FRANKLINVILLE—*Ontario Knife Co. (Tools, etc.)
 *Stone, F. L.
 FREDONIA—*Hammond, J. W.

FRIENDSHIP—†Costigan Mfg. Co. (Stoves, etc.)

*†Drake Hdw. Co. (Stoves & Dairy Goods)

*Rumsey, C. B. Engine & Machine Co.

FULTON—†Dilts Machine Co. (Paper Mill Machy., Castings, etc.)

*†Emeny, G. J. Co. (Ensilage Cutters, Cider Mill Machinery & Hot Air Furnaces)

*Foster Bros. & Chatillon Co. (Edge Tools, etc.)

*Hunter Arms Co. (Fire Arms, etc.)

*Hunter Fan & Motor Co. (Water Motors, Fans, etc.)

*Miller & Armstrong (Engines, etc.)

*Parker, J. J. & Co. (Gasoline Engines, etc.)

*Pearman, James (etc.)

*Taylor Bros. & Co. (Machine Knives, etc.)

GARDENVILLE—*Schoepflin, Chas.

GENESE—*Barclay, Geo. P. (Machinist)

GENEVA—*†Catchpole Boiler, Fdry. & Mach. Co.

*Fay & Bowen Engine Co. (Gasoline Engines, etc.)

*†Hérendeen Mfg. Co. (Heating Apparatus)

*†NEW YORK CENTRAL IRON Works Co. (Boilers, Heaters & Castings). (See adv. index, end of book)

*†Phillips & Clark Stove Co. (Stove Mfrs.)

*†Summit Foundry Co. (Stoves)

GLENS FALLS—*†Dix, J. L. Foundry Co. (Paper Mill Machy., etc.)

Lapham, Mortimer

GLOVERSVILLE—*†Anthony, H. J. (Glove Machy. & Dies)

*Curtin-Hebert Mfg. Co. (Glove Machinery, Emery Wheel Dresses, etc.)

*Haag, Jacob Cutting Die Co. (Glove Cutting Dies, etc.)

*Steele Mfg. Co. (etc.)

GOSHEN—†Newbury, Jay H. (Cast Iron Soil Pipe, etc.)

GOWANDA—*†Gowanda Agricultural Works (Agl. Impls., Grey Iron Castings, etc.)

Smallwood, W. W. Mfg. Co. (Corrugated Steel Fasteners, etc.)

†Star Iron Works

GRASSY POINT—*†Wiles, A. M. & W. H. Co.

GREENE—*†Lyon Iron Works (Fdrs. & Machinists, Feed Cutters, etc.)

GREEN ISLAND—*Chifford, Jas. J. & Co. (Machinists)

*Grand-Ferris Co. (Agl. Impls., etc.)

GREENPORT—*Greenport Basin & Construction Co. (Ship & Engine Builders)

*Hedges, Samuel P. (Machinist)

*Tuthill & Thorn

GREENWICH—*†Eddy, W. Plow Co. (Plow Mfrs. & Castings)

GROTON—*Groton Machine Tool Co.

*†Monarch Road Roller Co. (Steam Road Rollers, etc.)

GUILDERLAND—†Guilderland Foundry Co.

GUILFORD—*†Merchant, A. P. (Fdry. & Machinist)

HAMBURG—*Hamburg Planter Co. (Planters, etc.)

HAMILTON—*†Graham, Dwight (etc.)

HAMMOND—*†Evans Mfg. Co. (Agl. Impls.)

HAMMONDSPORT—*Curtiss, G. H. Mfg. Co. (Motor Cycles)

HANCOCK—†Stimson, T. F. (Iron Fdry.)

HAVERSTRAW—*†Waldron, Chas. (Brick Machinery)

HERKIMER—*Clark, Jas. A. (Machinist)

*Klock, A. B. (Machinist)

*Quackenbush, H. M. (Air Pistols, etc.)

HILLBURN—*†Ramapo Iron Works (Cars, Castings & General Track Equipments)

HOBART—†Robinson, John

HOMER—*Baker Gear Co. (Gears, etc.)

*Phoenix Hardware Mfg. Co. (Hardware, etc.)

HONEOYE FALLS—*Honeoye Falls Mfg. Co. (Bean Picking Machy., etc.)

†Yorks, W. R.

HOOSICK FALLS—†Brien Heater Co. (Heaters, etc.)

*†Noble & Wood Machine Co. (Paper Mill Machy.)

*†Wood, W. A. Mowing & Reaping Machine Co.

HORNELL—*Bartz, Wygant & Brown (Inc.) (Chucking Machines, etc.)

*Clemens Machine Co.

†Davis' Fdy. (Inc.)

HORSEHEADS—*†Weller Hdw. & Foundry Co. (Grey Iron Castings & Hdw. Specialties)

HUDSON—*†Gifford-Wood Co. (Friction Clutches, Ice Handling Machinery, Castings, etc.)

Railway Steel Spring Co. (Car Wheels, Steel Springs, etc.)

ILION—*Remington Arms Co. (See N Y City)

*†Wyckoff, Seamans & Benedict (Typewriters). (See New York)

IRVINGTON—*†Lord & Burnham Co. (Horticultural Builders & Greenhouse Heating Apparatus). (See New York City)

ITHACA—*Clinton, C. M. (Machine Work)

*†Godfrey, E. O. (Machine Work)

*Ithaca Gun Co. (Guns & Typewriters)

†Lang, J. B. Engine Works

*Motor & Mfg. Works Co.

*†Williams Bros. (Well Drilling Mach'y & Agl. Implt. Castings)

JAMESTOWN—*Anderson Bros. (Machinists)

*Blackstone Mfg. Co. (Corn Planters, Washing Machines, etc.)

*Danielson, J. P. & Co. (Special Machy., Tools, etc.)

*†Eagle Fdry. & Mach. Co. (Fdrs. & Machinists)

*Gurney Ball Bearing Co.

*Hjorth, Wm. & Co. (Wrenches, etc.)

†Jamestown Iron Works Co.

*Maddox Machine Co. (Woodworking Machinery)

*†Maher, Patrick (Machinist & Fdry.)

*Moore Bros. (Files, etc.)

*Ohnstrand Metal Furniture Co. (Brass, Aluminum & Bronze Castings)

*Phillips Barrel & Machine Co. (Barrel Machinery)

*Rushworth, Isaac (Machinist)

*United States Standard Voting Machine Co. (Voting Machines)

Weber Mfg. Co. (Cabinet Hdw. & Specialties)

JOHNSTOWN—*Camm, Geo. E.

KINGSTON—*Browne, W. G. Mfg. Co. (Hardware Specialties, etc.)

*King, A. R. Mfg. Co. (Machy., Tools, etc.)

*†Hayes Machine Co. (Inc.) (Box Nailing & Box Printing Machinery, etc.)

*†Lawton, Wm. F. (Fdry. & Machinist)

*†Millard, Jas. & Son (Brick Machy. & Castings)

*Ney, Roscoe W. (Machy.)

*Scholl, Julian (Road Machy., etc.)

LANCASTER—†American Malleable Iron Co.

*Lancaster Machine & Knife Works (Bit Braces, Machine Knives, etc.)

†Maute, Frank (Iron Fdry.)

LEONARDSVILLE—*†Babcock Mfg. Co. (Agricultural Implements)

LE ROY—*†Le Roy Plow Co. (Plows, etc.)

LESTERSHIRE—*†Heath, W. A. Machine Co. (Woodworking Machy.)

LIMA—*Bailey Engine Co. (Bottle Washing Machines, etc.)

*Papec Machine Co. (Feed Cutters, Cream Separators, etc.)

LITTLE FALLS—*†Burrell, D. H. & Co. (Dairy Mach'y)

*Cheney, Henry Hammer Co. (Hammers, Tools, etc.)

*†Reddy's, M. Sons (Castings, etc.)

*Snyder, Homer P. Mfg. Co. (Knitting Machinery)

*Stafford & Holt (Knitting Mach'y)

LOCKPORT—*†American District Steam Co. (Steam Traps, Regulators, Valves, etc.)

*†Boston & Lockport Block Co. (See Boston, Mass.)

†Drew Steel Foundry

†Gardner Foundry Co.

*Holly-Carlos Co.

*Kolb, Edw. (Machine Work)

†McKim Foundry & Machine Co.

*†Merritt Mfg. Co. (Wood Working Machy.)

*Nolan, Wm. (Machinist)

*†Oliver Bros. Co. (Iron & Brass Bedsteads, etc.)

*†Richmond Mfg. Co. (Flour Mill Mach'y)

*Trevor Mfg. Co. (Shingle, Heading, Staves, Handle & Wood Pulp Machy.)

*Ward & McLean (Looping Mach'y)

*Western Block Co. (Tackle Blocks, etc.)

LOWVILLE—*Fulton Machine & Vise Co.

LYNDONVILLE—†Gray, Wm.

LYONS—†Berns, Schlee & Bro. (Iron Fdrs.)

*Nagley Mfg. Co. (Tobacco Planters' Machy., etc.)

MACEDON—*†American Seeding Machine Co. (Agl. Impls.) (See Springfield, O.)

MALONE—*†Hinds, Thos. (Stone Polishing & Stone Sawing Mach'y & Castings)

MAMARONECK—*†National Machine Co. (Sewing Machines)

MANLIUS—*†Cheney, S. & Son (Iron Fdrs., Stable Fixtures, etc.)

†Scoville, E. H.

MARATHON—*†Climax Road Machine Co. (Road Mach'y, etc.)

*†Livingston, Jas. (Machinist & Fdry.)

MASSENA—*Massena Machine Works

MASSENA SPRINGS—*Balch, F. (Machinist)

MATTEAWAN—*†GREEN FUEL ECONOMIZER Co. (Fuel Economizers, Blowers, etc.) (See adv. index, end of book)

MECHANICSVILLE—†Greene, W. F. Co. (Stove Trimmings, etc.)

MEDINA—†Bignall Co. (Sinks, Pumps, Plumbers' Supplies, etc.)

*†Central Foundry Co. (Soil Pipe & Fittings). See New York City

*†Medina Foundry Co. (Soil Pipe & Fittings)

*Medina Stamping & Machine Co.

*†Swett, A. L. Iron Works (Grey Iron Castings, Plumbers' Castings, Door Hangers, etc.)

MELLENVILLE—†Smith, Webster

MERIDIAN—†Everts & Co. (Plows, etc.)

MIDDLEPORT—*Lewis, E. J. (Canning Machinery)

*Niagara Sprayer Co. (Spraying Machines)

†Sherwood, A. G. (Iron Fdry.)

MIDDLETOWN—*†Benjamin, I. S.

*Clemson Bros. (Saws, etc.)

*†Coleman, Galen (Castings all Kinds, General Machy., etc.)

†Martin, Jas. G. (Castings of every description)

*Morgans & Wilcox Mfg. Co. (Printing Machinery)

*National Saw Co. (Saws, etc.)

MONROE—*†Newbury Mfg. Co. (Castings & Steam Fittings, etc.)

MONTOUR FALLS—*†GENERAL PNEUMATIC TOOL Co. (Pneumatic Tools, etc.) (See adv. index, end of book)

MORAVIA—†Cady, Geo. S. & Co. (Fdrs.)

*Jewett, H. M. (Lawn Mowers)

MOUNT MORRIS—*Empire Machine Works (Wood Working Machy.)

*†Genesee Valley Mfg. Co. (Grain Drills, Harrows, Corn Shellers, etc.)

MOUNT UPTON—*Willey, Leroy

MOUNT VERNON—*Ams, Max Machine Co. (Can Makers' Machinery, etc.)

MUNNSVILLE—*†Munnsville Plow Co. (Plows, etc.)

NAPANOCH—Pillsbury, M. M. (Edge Tools, etc.)

NEWARK—*†Hamer, T. L. (Castings & Plows)

NEWARK VALLEY—*†Kemp, J. S. Mfg. Co. (Manure Spreaders, etc.)

NEWBURGH—*†ABENDROTH & ROOT Mfg. Co. (Grey Iron & Brass Castings, Water Tube Boilers, etc.) (See adv. index, end of book)

*Chadbourne & Coldwell Mfg. Co. (Lawn Mowers)

*Coldwell Lawn Mower Co. (Lawn Mowers, etc.)

*†Coldwell-Wilcox Co. (Sugar Machy., Rock & Ore Crushers, Sluice Gates & Iron & Brass Castings, etc.)

†Fletcher, J. & L. D.

*Gregg Co. (Sugar Cane Cars, Unloaders, etc.)

*Hyer-Sheehan Elec. Motor Co. (Elec. Motors)

†Kimball's, S. G. Son (Brass Fdr.)

*Lackawanna Mfg. Co. (Motors, etc.)

*†Marvel, T. S. Shipbuilding Co. (Ship & Engine Builders, Iron & Brass Castings, Marine Railways, etc.)

†Monell, Geo. L. (Brass Finisher, etc.)

*†Newburgh Ice Machine & Engine Co. (Corliss Engines, Ice & Refrigerating Machines & Iron & Brass Castings)

†Ross Radiator Co. (Radiators, etc.)

*Staples Valve Co. (Valves, etc.)

*†Turl's, John Sons (Sugar Machy., etc.)

NEW HAMBURG—*†Stuart, R. J. & T. H. (Compression Wedge Couplings, Castings, etc.)

NEW LISBON—*George, M. & R. L. (Steam Engines, etc.)

NEW YORK CITY.

Borough of Brooklyn.

BROOKLYN—†Acme Iron Foundry (Iron Fdry.), 280 N Henry

*Acton, Jno. (Machinist), 118 John

*Adriance Machine Works, 254 Van Brunt

*Almond, T. R. Mfg. Co. (Drill Chucks, Countershafts, etc.), 83 Washington

*Ambrose Machine Co. (Machinists, Metallic Packings, etc.), Eagle cor Provost

*American Air Compressor Works, Van Brunt & Summit

*†American Machine & Foundry Co. (Iron Fdrs. & Machinists), 346 Carroll

American Rolier Bearing Fifth Wheel Co., 745 3d av
 *American Stopper Co. (Bottlers Mach'y), 4 Verona
 †Anderson & Willerth, 209 King
 *Art Machine Co., 217 Fulton
 *Atlantic Basin Iron Works, 18 Summit
 †Auer, Jno., Jr., 201 Middleton
 *Ball, Geo. M. & Son (Machinery), 56 Greenpoint av
 *Ball & Jewell (Machinists), 26 Franklin
 *Bauer, Noble & Bauer, 91 Wallabout
 *Bergstrom & Bass, 2d av
 †Binney & Godfrey (Iron Fdrs., etc.), 40 Rodney
 †Binns, David W. (General Iron Fdry.), 56 Sandford
 *Blattner, Fred'k (Machinist & Millwright), 223 Maujer
 †Bliss, E. W. Co. (Sheet Metal & Plate Machy., Gears, etc.), 117 Adams
 †Brass Goods Mfg. Co. (Brass Goods, etc.), Nevine c Union
 *Brantigan & Hoelzlein (Machinists & Millwrights), 192 Bushwick av
 †Brooklyn Foundry Co. (Inc.) (Iron & Bronze Founders), 372 G'point av
 *Brown, Geo. J. (Forgings & Machine Works), 75 West
 †Brown & Patterson, 33 Marcy av
 †Burns Foundry & Machine Co. (Machinists & Iron Fdrs.), 62 Rutledge
 *Burr, John T. & Son (Machine Tools, etc.), 429 Kent av
 †Burr & Houston Co. (Iron Fdrs., Electrical Work, Light Castings a Specialty), 84 Calyer
 *Campbell, Jas. F. & Son (Files, etc.), 13 Frost
 *CAMERON MACHINE CO. (Cloth Cutting Machinery, etc.), 61 Poplar. (See adv. index, end of book)
 *Carpenter, Thos. D. (Mfr. Vacuum Pumps & Veneer Sawing Machines), 93 Pearl
 *Child, Wm. C. W. (Iron Fdry., Structural), 353 Kingsland av
 *Christoffel's, A. Sons (Tube Cleaners, etc.), 277 Eldert
 *Columbia Engineering Works (Machinists), Imlay & Pioneer
 †Columbia Machine Works & Malleable Iron Co. (Electric Railway Appliances & Malleable Iron & Brass Fdry.), 369 Chestnut
 †Continental Iron Works (Corrugated Furnaces & Gas Works Apparatus, etc.), Calyer & West
 †Coyne & Delaney (Brass Fdrs., Plumbers' Specialties, etc.), 303 Rodney
 *Crowell, Gilmer (Mfrs. Tools & Mach'y), 294 Graham
 *Currie, J. B. & Co. (Engineers & Machinists), 72 Adams
 *Davidson, M. T. (Steam Pumps, etc.), 43 Keap
 *Deverall Perfection Mfg. Co. (Brass Specialties, etc.), 10 Johnson pl.
 *Dolg, Wm. S. (Est. of), (Box Nailing Mach'y), 54 Franklin
 †Duffus, Wm. M. (Brass & Iron Fdry.), 719 Kent av
 *Dugro, Philip & Son, 132 Ten Eyck
 †Durst, Wm. (Brass Fdr. & Finisher), 4 Water
 †Eagle Iron Works (Inc.), 850 De Kalb
 *Electroze Mfg. Co. (R. R. Supplies), 127
 *Elsesser, Michl., ft Court N 10th
 *Emmerich, Fred'k (Machinist), 403 Flushing av
 †Fischer, Henry C. (Iron Fdry.), 234 Greene
 *Fogarty & Co. (Machinists), 38 Harrison
 *Foster Pump Works, 36 Bridge
 *Fox, Arthur W., 83 Schermerhorn
 *Franklin Machine & Steam Boiler Works (Inc.) (Machinists, etc.), 13 Franklin
 †Friberg Iron Foundry, Wyeth av
 †Fulton Foundry & Machine Co. (Machinists & Iron Fdrs.), 25 Furman
 *General Insulate & Machine Co. (Dies, Tools, etc.), 1008 Atlantic av
 †Gilmour & Co., 11 Seahring
 *Gill, P. H. & Sons Forge & Machine Works (Forgings, Grain Elevators, Power Transmitting Machinery, etc.), 2 Loraine
 †Gillette Machine Works, 109 S. 5th
 †Graf, Jos. (Brass Finisher), 886 Park av
 *Greene Mfg. Co. (Kindling Wood Mach'y), 300 Oakland
 †Gnild & Garrison (Pumping & Sugar Mach'y, etc.), Kent av cor S 10th
 *Hall & Hurlburt, ft 24th
 †Halloran, Thos. (Iron Fdry.), 884 Met av

*Hartley, James (Engineer & Machinist), 75 Delevan
 Hay-Budden Mfg. Co. (Forgings, Anvils), 254 N Henry
 †Hecla Iron Works (Brass, Bronze & Iron Founders, Iron Bronze & Brass Work & Builders' Iron, Brass & Bronze Work), 118 N 11th
 *Hibbard, W. H. Mfg. Co. (Power Presses, Shears, etc.), 79 Washington
 Hofmann, Adolph W. (Die Sinker, etc.), 83 Washn
 †Holdsworth, Wm. H. & Son (Brass & Iron Fdrs.), 454 Rodney
 *Holland, Frank, 679 Lorimer
 *Hoole Machine & Engraving Works (Book Binders' Machinery), 29 Prospect
 *Houchin & Huber (Candle & Special Machinery), 35 53d
 *Hubbard's, Norman Sons (Vacuum Pump & Veneer Sawing Machines), 265 Water
 †Huethwohl, Louis, Jr., 513 Flushing av
 *Jones, Whitfield E. (Special Mrchy.), 14 Water
 †Kasper & Koetzle, 565 Bushwick av
 *Keltling, Albert J. (Machinist & Engineer), 459 Carroll
 †Kings County Iron Foundry Co. (Sash Weights, etc.), N 13th & Berry
 †Knight's, John J. Sons (Iron Fdry.), Albany & E. N. Yards
 †Lefferts, Chas. A. & Co., 128 2d av
 *Lettlar, Chas. & Co. (Inc.), (Presses, Dies & Tools for Sheet Metal & Paper, etc.), 49 Clymer
 †Logan Iron Works (Mfrs. & Contractors, Oil & Gas Works Complete), 42 Commercial
 *Lythgoe, Peter, 1010 2d av
 *Marresford, Wm. F., 311 Jay
 †May, John (Iron Fdry.), 260 Monitor
 *McAdams, Jno. & Sons (Paging & Ruling Machines, 978 Kent av
 *McGibbon-Roy Engineering & Iron Working Co., 12 Columbia
 *McMurray, Roht. T. & Bro., 365 Harman
 †Mergenthaier Linotype Co. (Linotype Machines)
 *Merrill Bros. (Machine Tools), 465 Kent
 *Metcalf, Saml. (Brass & Iron Fdry.), 25 Seahring
 *Milliken, Chas. H., 79 Washington
 *Mills, Wm. J. (Brass & Bronze Fdrs. & Machinists), 639 Kent av
 *Muistein, Jno. C. (Tools), 211 3d av
 *Murdock & Campbell (Files), 296 Union av
 *Murray, John A. (Brass Finisher), 112 Front
 *Nassau Machine Works, 55 Furman
 †National Foundry Co. (Cast Iron Soil Pipe & Machy Castings), 32 Sanford
 *Nebel, Martin A. (Cement, Paint Grinding, Machy, etc.), 74 Grand av
 *New York Gear Works (Gears & Cutting), 56 Greenpoint av
 *Oakley & Keating (Laundry Machy), 673 Manhattan av
 *Oldham, Joshua & Sons (Saws), 112 26th
 *Olson, Andrew, 39 Union
 *Parkes Machine Co. (Sewing Machines, etc.), 290 Graham
 *Paul, Chas. B. (Files, etc.), 467 Keap
 *Piel, Bernard F. (Millwright, Engineer & Machinist), 56 Humboldt
 *Pioneer Iron Works (Asphalt, Paper Tar-ing, Sugar Machinery, etc.), 155 Pioneer
 *Pollard, Jos. G. (Tools), 141 Raymond
 *Pringle, Thos. G. (Machinist), Clay
 *Reeve, Henry E., Carroll nr 3d av
 *Reilly, Martin J., 114 West
 *Reinhardt & Co. (Scales, etc.), 72 Stag
 *Reynolds, Martin & Son (Plumbers' Brass Works), 70 Richardson
 *Riley, John J. (Iron & Brass Fdry.), Van Brunt & Summit
 *Riley Machine Works, 192 24th
 *Robertson, John & Co. (Lead Pipe Machy), 127 Water
 †Roman Bronze Works (Bronze Fdrs.), Greene & Provost
 *Roovers Bros. (Automatic Machines) 100 Schermerhorn
 †Ross, Chas. & Son Co. (Paint Grinding & Mixing Machy), 146 Classon av
 *Rotary File & Machine Co. (Saw Sharpening Machines, Pinking Machines, etc), 589 Kent av
 *Shaffer Mfg. Co. (Confectioners' Machy)
 †Simpson Foundry Co. (Builders' Castings of all kinds), 26 Rodney
 *Simpson, Jas. S. (Grinding Mills, etc.), 20 Rodney
 †Smith & Loughlin (Iron Fdrs.), Driggs av & N 5th
 †Staats, Geo. & Co., 252 Lorimer

*Sweeney, W. H. Mfg. Co. (Brassware, etc.), 66 Water
 †Taylor & Co. (Machine Molded Castings, etc.), Morgan & Norman avs
 *Terry & Williamson, 62 Sedgwick
 *Thompson-Bonney Co. (Electrical Specialties), 45 York
 *Thomson Meter Co. (Water Meters), 79 Wash'n
 *Townsend & Moore, Pier 2, Eric Basin
 *Unitype Co. (Typesetting Machines), 150 Sands
 †Universal Iron Foundry (Iron Fdry), 283 Scholes
 *Vierengel, Matthew (Machinist), 36 S 6th
 *Vosburgh, W. C. Mfg. Co. (Gas Fixtures, etc.), 93 Underhill av
 Ward, Geo. H. & Co. (Steam, Hydraulic, Electric & Refrigerating Plants, for Marine Purposes, Engine Repairing, etc.), 78 Delevan
 *Ward & Upright Eng. Co. (Machinists), 41 York
 *Welsbecker, Francis A. & Sons (Machinists), 22 Frost
 *Weiss, Louis T. (Machinist), 290 Graham
 *Wesel, F. Mfg. Co. (Printers' Machy), 70 Cranberry
 *Whale Creek Iron Works, Calyer nr Whale Creek Canal
 *White, J. H. Mfg. Co. (Gas & Electric Light Fixture Parts & Trimmings), 111 N 3d
 †White, Roht. Engineering Works (Iron & Brass Fdrs., Marine Engines & Builders of Tug Boats, etc.), ft of Columbia
 *Wunder, Fred'k & Son (Engineers & Millwrights), 957 Broadway
 †Youdelman, H. & Co., Eagle

Boroughs of Manhattan & Bronx

NEW YORK—*Abele, Christian, 537 W 50th
 †Abendroth Bros. (Stoves, Furnaces, Cast Iron Pipe, etc.), 109 Beekman, Works, Port Chester, N. Y.
 *Acme Brass Works (Brass Finishers, etc.), 117 Baxter
 †Ahr, Henry Iron Works, 698 E 148th
 †Allan, Andrew & Son (Brass Fdrs.), 486 Greenwich
 *Allen, John F. (Pneumatic Riveting Machy), 370 Gerard av
 *Allman Gas Engine & Machine Co. (Gas Engines, Ice Breakers, etc.), 29 Sullivan
 †Aluminum & White Metal Mfg. Co., 164 W 11th
 *American Air Compressor Works (Air Compressors), 26 Cortlandt; works, Brooklyn, N. Y.
 †American Locomotive Co. (Locomotives, etc.), 111 B'way
 *American Meter Co. (Gas Meters), 11th av & 47th
 *American Process Co. (Drying Machinery), 62 William
 †American Smelting & Refining Co., 71 Broadway
 *American Wringer Co., 99 Chambers, works, Auburn, N. Y.
 *American Writing Machine Co. (Typewriters), 343 B'way
 *Andrews, Phalon & Co. (Marine Engines & Repairs, etc.), 241 West
 *Arthur Co. (General Machine Works), 188 Front
 †Atlantic Brass Co. (Brass Fdrs.), 192 B'way. Foundry, Jersey City, N. J.
 *Aue, Ferdinand (Millwright & Machinist), 420 E 62d
 *Automatic Switch Co. (Electric Devices), 131 Liberty
 *Automatic Vending Co. (Automatic Machines), 240 W 23d
 †Babcock & Wilcox Co. (Water Tube Boilers & Castings), 85 Liberty; works at Bayonne, N. J.; Barberton, Ohio, & Mansfield, Ohio
 *Baker, Wm. C. (Car Heating, etc.), 143 Liberty
 *Ball & Wood Co. (Steam Engines), 17 Battery pl. Works, Elizabeth, N. J.
 *Bassemir, John & Son (Brass Finishers), 125 Worth
 *Bates Machine Co. (Numbering Machines, etc.), 345 Broadway
 *Bayer, Gardner & Himes Co. (Cabinet Hardware, etc.), 157 W 29th
 *Baylis Co. (Elec. & Gas Specialties), 140 Washn
 *Bell Electric Motor Co. (Electric Motors), 140 Prince
 *Bender, Ph. J. & Sons (Machinists,

Presses, Dies, Tools & Special Machinery, 87 Frankfort

*Benton Mfg. Co. (Registering Machines, etc.), 9 Bethune

*Berggren & Pearson Machine Co., 173 Grand

*Blair Tool & Mach. Works (Machinists, Electrical & Automatic Work), 24 West

*Boynton Furnace Co. (Hot Air Furnaces, etc.), 207 Water; works, Jersey City, N.J.

*Bramberg, Chas. (Dies), 93 Cliff

†Brinkerhoff's, J. P. Sons (Brass Fdrs.), 183 G'wich

*†**BROWN, A. & F. CO. (Power & Rope Transmitting Machinery, Hangers, Pulleys, etc.), 25 Dey. Works: Elizabeth-Port, N. J. (See adv. index, end of book)**

*†Buchschatz & Brendle (Brass Finishers), 212 E 37th

*Bulasky, Louis (Hat Machy., etc.), 42 E. Houston

*Burns, Jabez & Sons (Coffee Roasting Machy., etc.), 542 Greenwich

*Button Machinery Co., 299 Broadway

*†Cameron, A. S., Steam Pump Works (Steam Pumps), foot E. 23d

*Campbell Printing Press & Mfg. Co. (Printing Presses, etc.), 1 Madison av

*†Cassidy & Son Mfg. Co. (Gas Fixtures), 133 W. 23d

*Cavagnaro, John J. (Macaroni, Wire Weaving & Watch Case Machinery, etc.), 215 Centre

†Central Foundry Co. (Cast Iron Soil Pipe, etc.), 116 Nassau

†Central Iron Works (Iron Fdrs.), 420 E 48th

*Christie Iron Works (Machinist), 519 E 18th

*Clark, Hopps & Zeidler (Laundry Machy.), 2424 1st av

§Claudat, Frank & Son (Brass & Bronze Fdrs.), 424 E. 23d

*Columbia Typewriter Mfg. Co. (Typewriters), 56 Reade; works, 37 W. 116th

*Condon, Thos. F. & Co. (Soap Machinery), 220 B'way

*Connelly Iron Sponge & Governor Co., 395 B'way

*Connecticut Dynamo & Motor Co., 516 W. 25th

*†Consolidated Car Heating Co. (Car Heaters, etc.), 42 B'way; works, Albany, N. Y.

*Cook, Tho. W. G. (Metal Goods Presses), 6 Reade

*†§Cornell, J. B. & J. M. Co. (Brass & Iron Fdrs., Machinists, Sugar Machy, etc.), 26th & 11th av

CORCORAN, A. J. (Inc.), 11 John. (See adv. index, end of book.) (See Jersey City)

*§Cory, Chas. & Son (Brass Finishers), 286 Spring

*Costillo, Jas. E. (Machine Tools), 60 Centre

*†Cottrell, C. B. & Sons Co., 41 Park row. (See Westerly, R. I.)

*Craft, Jesse (Centrifugal Pumps, etc.), 260 Front

*†Crane, Wm. M. Co. (Stoves, Grey Iron Castings, etc.), 1131 B'way. Works, Peekskill, N. Y.

§Cunningham, Wm. J., 671 Water

*Curtis, Chas. L. (Machinist), 143 Centre

*Dale Co. (Electric Fixtures, etc.), 9th av & 13th

*Dceley, Robt & Co. (Sugar Machy, etc.), 541 W. 32d

*Defiance Button Machine Co., 264 Greene

*De La Vergne Machine Co. (Ice Machines & Gas & Oil Engines, etc.), ft of E.

*Dey, V. G. 517 W. 46th

*Dilg Mfg. & Trading Co. (Ice Breakers, Cutlery, Renovating & Polishing Machines, etc.), 667 E. 163d

†Dimond, Thos., 128 W 33d

*Donnelly, Blanthorn & Co. (Machinists), 528 W 28th

*Dowdall, Chas. E. (Elevators), 152 W B'way

*Drescher, Louis (Machinist), 207 Centre

*Dudgeon, Richard (Hydraulic Jacks), 82

*Duff & Boden, 175 Grand

*Durbrow & Hearne Mfg. Co. (Duplicate Parts, Machinery, etc.), 12 Wooster

*Dustin, Chas. E. Co. (Electrical Mach'y. etc.), 11 B'way. Works: Orangeburg, N. Y.

*Ecaubert, Fred'k (Machinist), 18 Rose

Edwards & Co. (Electric Appliances), Exterior & Cheever place

*†Edwards, Jos. & Co. (Bridge Operating, Dredging, Irrigating, Pumping Machy. etc.), 414 Water

*Electro-Dynamic Co. (Electric Machy. etc.), 5 Nassau

§Empire Brass & Metal Works, 290 B'way

*Empire State Engineering Co. (Engines, Ice Machines, Pumps, etc.), 553 E. 116th

*Enos Co. (Gas & Electric Fixtures), 7th av & 16th

*Entwistle, Mason & Moore, 30 E. 4th

*Ermold, Edward, 652 Hudson

*Errington, Franklin A. (Machine Tools), 39 Cortlandt

*†§Fiske, J. W. Iron Works (Iron & Bronze Fdrs.), 39 Park pl

*†§Fox's, Benj. Sons (Brass & Iron Fdrs. & Machinists), 513 W 34th

*Fuller, E. C. Co. (Bookbinders' Machy), 28 Reade

*Fyfe, Alex. C. (Machinist), 569 11th av

§Gallagher, James & Sons (Brass Fdrs.), 87 Centre

*Ganz, Chas., 523 W 45th

*Gardam, Wm. & Son, Inc. (Drilling Machinery, Tags, Dies, etc.), 45 Rose

*Garvin Machine Co. (Machine Tools, etc.), 137 Varick

*Gas Engine & Power Co. & Chas. L. Seabury & Co., Morris Heights

§Gillen, J. F. & Son, 2 Howard

*Goat & Hibbs (Machinists), 6 Reade

*†§Goubert Mfg. Co. (Iron & Brass Fdrs., Steam Separators, Steam Specialties, etc.), 85 Liberty. Works, Bayonne, N. J.

*Gould Coupler Co. (Car Couplers, Steel & Malleable Iron Castings, etc.), 1 W 34th. Works, Depew, N. Y.

*§Gould, Mersereau Co. (Brass Fdrs. & Finishers), 43 E 19th

*Grabo, E. O. (Brass Working Machinery), 180 Centre

*§Graf, Frank H. (Brass & Bronze Fdry., etc.), 322 7th av

*†Graff Furnace Co. (Stoves, Furnaces, etc.), 208 Water

§Gramercy Brass & Iron Works (Iron & Brass Fdrs.), 206 E 19th

*Greenlie, Wyatt & Co. (Machinists), 499 Water

†Grinberg Bros. (Gas & Oil Stoves, etc.), 154 South

*Gullberg & Smith (Machinists), 478 Pearl

*Haiss, Geo. Mfg. Co. (Coal Handling Machinery), Rider av & 141st

*Hall's, Saml. Sons (Bolts & Wrenches, etc.), 229 W 10th

*Hammond Typewriter Co. (Typewriters), 212 B'way

§Hampson, Wm. P. (Brass Fdry.), 520 W 22d

*Hankin, John & Bro. (Heaters & Machinists), 550 W 25th

*Hatch, F. E. Co. (Paper-Box Machinery), 91 Thompson

*Hepworth, S. S. Co. (Sugar Machy.), 92 William

*Heyman, N. H. (Brewers' & Malsters' Machy.), 438 E 59th

*Hillyard & Co. (Confectioners' Machy., etc.), 75 Fulton

*Himhoff, Max (Tobacco Cutting Mach'y), 207 Centre

†Hinkle Iron Co. (Iron Fdrs.), 534 W 56th

*†Hitchings & Co. (Greenhouse Heating Apparatus & Bldrs.), 1170 B'way. Works, Jersey City, N. J.

*†Hobson & Co. (Agl. Impls., Stoves, etc.), 17 State. Works, Tatamy, Pa., & Phillipsburg, N. J.

*†Hoe, Robert & Co. (Printing Presses, Saws, etc.), 504 Grand

*Holub-Dusha (Pearl Button Machinery & Tools), 1801 1st av

*Homan, J. & E., 378 W B'way

*§Huber, Henry Co. (Plumbing Specialties, Iron & Brass Fdrs, etc.), 244 5th av

*Hummel, C. & Sons, 320 Pearl

*†Hunt, C. W. Co. (Coal & Ore Handling Machy, etc.), 45 B'way; main office, West New Brighton, New York City

*Hurd & Co. (Special Machines, Models, etc.), 310 Hudson

*Hvass, Chas. (Machinist & Street Sweeping Machines), 509 E 18th

*Ideal Opening Die Co. (Dies, Tools, etc.), 24 West

*†**INGERSOLL-RAND CO. (Air Compressors, Rock Drills, Mining Machy. & Pneumatic Tools, etc.), 11 B'way. Works, Easton, Pa. (See adv. index, end of book)**

*†**JACKSON, WM. H. COMPANY, 29 E 17th (Union Square). (See adv. index, end of book)**

*§Janusch, F. G. (Est. of) (Fire Place Finishings, Brass Fdry, & Finisher), 750 E

*Jeffers, Warren H., 373 Canal

*†Johnson, Isaac G. & Co. (Steel Castings & Specialties), Spuyten Duyvil

Johnson & Crowley (Printers' Machinists), 182 Centre

*†Keil, Francis & Son (Bldrs' Hardware), 671 E 163d

*†Kennedy Valve Mfg. Co. (Valves, Hydrants, etc.), 57 Beekman

*Keyes, Jas. A., 652 Hudson

*Kissinger, Jacob, 75 Fulton

*Knickerbocker Machine Works, 8 Jones

*Krom Machine Works (Mining Machinery) 170 B'way. Works, Plainfield, N. J.

*Kumberger & Vreeland (Gas Engines), 33 Sullivan

†Lalanc & Grosjean Mfg. Co. (Holloware, etc.), 19 Cliff

*Lemmey, T. W. B. (Machinist), 410 W 54th

*Levering & Garrigues Co. (Steel Structural Work), 552 W 23d

§Levett, Walker M. (Brass, Bronze & Composition Castings), 462 10th av

*Lewthwaite, T. H. (Punching & Shearing Machinery), 411 E 31st

*†**LIDGERWOOD MFG. CO. (Hoisting Engines, Coal & Ore Handling, Elevating & Conveying, Pile Driving Machy, etc.), 96 Liberty. (See adv. index, end of book)**

*Lindh & Teden (Machinists), 11 Vandewater

*†Link Belt Co., 299 B'way (Main Office, Chicago, Ill.), Works also at Philadelphia, Pa.

*†Lord & Burnham Co. (Greenhouse Heating Apparatus & Builders, etc.), 1133 B'way. Works, Irvington, N. Y.

*Loyd, John Co. (Dies, etc.), 560 Water

*McCabe, Jas. J. (Machine Tools), 14 Dey

***McCABE HANGER MFG. CO. (Door Hangers, Ball-Bearing Wheels, Dies, etc.), 425 W. 25th. (See adv. index, end of book)**

*McCoy, J. B. & Son (Electric & Gas Fixtures), 114 W. 30th

*†McCrum-Howell Co., (Hot Air Furnaces, Radiators & Heating Apparatus, etc.), 46 E 20th

*†McDougall & Potter Co. (Steam Hammers, Punching Machinery, etc.), 606 W 55th

*†McKiernan Drill Co. (Rock Drills & Air Compressors), 170 B'way; works, Dover, N. J.

*†McLean, John (Fire Hydrants, Valves, etc.) 440 Water

*†§McNab & Harlin Mfg. Co. (Iron & Brass Fdrs. & Finishers, Plumbing & Steam Specialties, etc.), 56 John. Works, Paterson, N. J.

*MacHale, R. L. (Bakers' Machy), 131 Mangin

*§Magnolia Metal Co. (Anti-Friction Metal, etc.), 115 Bank

*§Manhattan Brass Co., 332 E 28th

*Manhattan Electrical Supply Co. (Electrical Supplies, Plumbers' Brass Goods, etc.), 17 Park Place. Works, Jersey City, N. J.

†Marcy Stove Repair Co. (Stove, Range & Heater Repairs), 74 Beekman

*†**MARINE ENGINE & MACHINE Co. (Electric Elevators, Pumps, Engines & Machine Work of all Kinds, Castings, 100 lbs. to 40,000 lbs.), Main Office, 126 Liberty. Works, Harrison, N. J. (See adv. index, end of book)**

*§Martin, B. M. (Brass Fdry. & Finisher), 473 W B'way

*§Mayor, Lane & Co. (Plumbers' Supplies), 128 White

*†Mietz, August (Gas Engines, etc.), 134 Mott

*Miller, Henry (Engineer & Machinist), 630 E. 144th

*§Mitchell, Vance & Co. (Gas & Electric Fixtures), 503 W 24th

*†§Mott, J. L. Iron Works, 118 5th av

*Muller, Chas. A. (Machinist), 44 Centre

*§Mullaney's, Jas. Sons, 141 E 25th

†Murray Hill Iron Works Co. (Iron Fdrs.), 212 E 37th

*Nason Mfg. Co. (Machinists), 71 Beekman

*§Nathan Mfg. Co. (Steam Specialties, Brass Founders, etc.), 92 Liberty. Works: 416 E 106th

*†§National Car Wheel Co. (Car Wheels & Iron & Brass Castings), 556 W 34th

National Meter Co., 84 Chambers

*†§National Novelty Corporation (Brass, Bronze & Grey Iron Castings, Hardware, Toys, Specialties, etc.), 826 B'way

*Needham, A. W. (Machinist), 110 E 43d

*†§Nelson, Chas. (Brass & Iron Fdry.), 439 E 10th
 †Neison Iron Works, 720 E 165th
 *§Neptune Meter Co. (Water Meters), 120 Liberty
 *†New York Air Brake Co. (Air Brakes & R. R. Appliances), 66 B'way
 §New York Brass Foundry Co. (Brass Fdrs.), 104 Centre
NEW YORK CONTINENTAL
 Jewell Filtration Co. (Water Filters, etc.), 15 Broad. Works, Jersey City, N. J. (See adv. index, end of book)
 *New York Improved Meter Co. (Slot Meters), 306 E 74th
 *New York Labeling Machine Co., 407 Broome
 *New York Pattern Machine & Die Co., 442 Water
 *Nielsen, Anton E., 44 Barclay
 *†Niles-Bement-Pond Co. (Machine Tools, etc.), 111 B'way
 *O'Day, P. H. & Son (Marine Work, etc.), 253 South
 *Orth, Fred'k (Brass Finisher), 181 Prince
 *†OTIS ELEVATOR CO. (Electric & Hydraulic Elevators, etc.), 17 Battery pl. Works: Yonkers, N. Y.
 *Pedersen Mfg. Co. (Tools & Special Machy.), 644 1st av
 *Persky & Sumergrade (Machinists), 51 Elizabeth
 *Pitt & Lienhardt (Motors, Marine, Pinking & Screw Machines, etc.), 213th & Harlem River
 *Pollard-Alling Mfg. Co. (Addressing & Mailing Machines), 312 E 23d
 *Prentiss Vise Co. (Vises, etc.), 44 Barclay
 *Prince, John A., 154 W 27th
 *Pryibil, P. (Est. of), 520 W. 41st
 *Purvis, Edw. & Son, 52 Park
 *Quimby, Wm. E. (Pumping Machinery), 44 E 23d
 *†Quintard Iron Works Co. (Iron Fdrs. & Machinists), 742 E 12th
 †Radley, John J. & Co., Inc. (Iron Fdrs., Railings, Doors, Shutters, etc.), 18th & E. R.
 *†Railway Steel Spring Co. (Railway Springs, Steel Tired Wheels, etc.), 71 B'way
 *†Ramapo Iron Works (Cars, Castings & General Track Equipment), 170 B'way. Works, Hilburn, N. Y.
 *Ramsaier, Gustav (Machinist), 216 William
 *Rathbun & Bird Co. (Machinists), 33 Gold
 *Rau, Emanuel & Sons (Envelope & Seed Bag Machinery), 211 Centre
 *Rauch, Henry & Son (Pitching Machines), 47 Centre
 *†Reedy Elevator Co., 202 9th av. Works, Hoboken, N. J.
 §Reilly, Jas Repair & Supply Co. (Brass Fdrs. & Machinists), 229 West
 *Remington Arms Co. (Rifles, Guns, etc.), 313 B'way; factory, Ilion, N. Y.
 *Remington & Sherman (Safes, Vaults, etc.), New Hall Records
 *Ricardo, Geo., 22 Burling Slip
 *†Richardson & Boynton Co. (Stoves, Furnaces, Ranges, etc.), 232 Water. Works, Dover, N. J.
 *Richardson Scale Co. (Scales, etc.), 13 Park Row
 *†Rider-Ericsson Engine Co. (Hot Air Pumping Engines), 35 Warren
 *†ROBINS CONVEYING BELT CO. (Conveying & Hoisting Machy), 19 Park Row. Works, Passaic, N. J. (See adv. index, end of book)
 *†Ronalds & Johnson Co. (Cast Iron Soil Pipe & Plumbers' Castings), 54 Cliff
 *Rosenfield Mfg. Co. (Coin Operating Machines), 587 Hudson
 *Ruhle, Jno. H. (Machinist), 517 W 45th
 *†Safety Car Heating & Lighting Co. (Car Heating & Lighting Apparatus), 160 B'way
 Schmidt, F. L. (Envelope Machy.), 136
 *Schock, Gustav, 341 E 59th Thompson
SCHALL, JULIAN & CO. (Road Making Machy.), 126 Liberty. (See adv. index, end of book)
 *Schrader's, A Son (Submarine Armor), 30 Rose
 *Scott, Walter & Co. (Printing Machy.), 41 Park Row. Works, Plainfield, N. J.
 *†Seybold Machine Co. of Dayton, O. (Bookbinding Machy.), 70 Duane
 *SHAW ELECTRIC CRANE CO., 85 Liberty. Works, Muskegon, Mich. (See adv. index, end of book)
 *SIMMONS, JNO. CO., 104 Centre. (See adv. index, end of book)

*†Singer Mfg. Co. (Sewing Machines & Special Machy.), 149 B'way. Works, Elizabeth, N. J.
 Slawson-Graham Co. (Elevator Signals), 246 Greenwich
 Smith, H. B. Co. (Steam Hoisting Apparatus, Radiators, etc.), 133 Centre. Works, Westfield, Mass.
 *†Southard-Robertson Co. (Stoves, Ranges, Furnaces, etc.), 255 Water. Works, Peekskill, N. Y.
 *SPRAGUE ELECTRIC CO. (Electric Machinery, Hoists, etc.), 527 W 34th.
 *Staley & Gillespie, 445 W B'way
 *†Steinway & Sons (Piano Plates, etc.), 109 E 14th. Works, Astoria, Borough of Queens, New York City
 *†Stephenson, John Co. (Electric Car Builders, etc.), 15 Park Row. Works, Elizabeth, N. J.
 §Sterling Bronze Co. (Bronze Fdrs. & Gas & Electric Fixtures), 107 W 25th
 §Stevens, Howard A. (Brass Finishers), 156 W 27th
 Strain, J. H. Co. (Flows, Rock & Ore Crushers, Street Sweeping Machines, Rollers, Steam Road, etc.), 12 Elm
 *Sullivan, John W. (Marine Engines), 827 E 9th
 *†Thatcher Furnace Co. (Hot Air Furnaces, Stoves, etc.), 110 Beekman. Works, Newark, N. J.
 *Thompson, Hervey (Builders' Iron Work & Machinist), 176 E 119th
 *Tight Joint Co. (Tight Joint Fittings), 306 E 47th
 *Tirrell Gas Machine Lighting Co., 75 Fulton. Works, Newark, N. J.
 †Toop, Geo. H., 2572 Park av
 *†Traylor Engineering Co. (Mining Machinery), 114 Liberty. Works, Allentown, Pa.
 *†Treadwell, M. H. & Co. (Cars, Special Machinery, Castings, Forgings, etc.), 90 West. Works, Lebanon, Pa.
 *†Turli's, Jno. Sons (Sugar Machy., etc.), 26 Cortlandt. Works, Newburg, N. Y.
 *†Tuttle & Bailey Mfg. Co. (Warm Air Registers, Fine Brass, Bronze & Iron Castings, Bronze Doors & Tablets), 83 Beekman; works, Brooklyn, N. Y.
 *Underwood Typewriter Co., 241 B'way
 §Union Equipment & Bronze Co., 520 W 36th
 *†Union Stove Works (Stoves, Furnaces, etc.), 70 Beekman. Works, Peekskill, N. Y.
 *†Universal Caster & Foundry Co. (Iron Founders, Ball-Bearing Casters, etc.), 1170 B'way, New York. Works: Newark, N. J.
 *†U. S. Cast Iron Pipe & Foundry Co. (Cast Iron Pipe & Castings), 71 B'way
U. S. INDESTRUCTIBLE GASKET CO. (Gasket, Washers, etc.), 16 S William. (See adv. index, end of book)
 *Van Allens & Boughton (Printing Presses), 17 Rose
 *Wagner, Chas., 587 Hudson
 *§Wasserstrom, Ignatz, 517 W 45th
 *WATSON-STILLMAN CO. (Hydraulic Machinery, etc.), 26 Cortlandt. Works, Aldene, N. J. (See adv. index, end of book)
 *Wendtland, Wm. (Dies), 216 Centre
 *†§Western Electric Co., 57 Bethune (See Chicago, Ill.)
 †Westervelt, A. B. & W. T. (Builders' Iron Work), 102 Chambers
 *†Wheeler Condenser & Eng. Co. (Pumps, Condensers & Sugar Machy.), 42 B'way
 *†White Mfg. Co. (Iron Fdry.), 556 W 34th
 *Wiebe, Chas. (Machinist), 211 Centre
 *†§Williams, John (Brass & Bronze Founders & Wrought Iron Work), 556 W 27th
 *William Wire Hinging Machine Co., 532
 *Wurm, Alexius, 25 Beekman W 22d
 *†Yost Writing Machine Co. (Typewriters), 245 B'way
 *Zimmermann, Louis J. (Iron Railways, etc.), 513 E 148th
 *Zucker & Levitt & Loeb Co. (Machine Tools), 516 W 25th

Borough of Queens.

GLENDAL STATION—*V. & O. Press Co. (Dresses, Dies, etc.)
 LONG ISLAND CITY—*Beach-Russ Co. (Vacuum Pumps & Pressure Blowers)
 *†Bell & Fyfe Foundry Co.
 *Leu & Co. (Bottlers' Machy.)
 †McGee, Jos. Co. (Iron Fdry.), 51 6th
 *Myers, W. F. & Co. (Machinists, etc.)
 *§Rhoades, R. W. & Co. (Machine Works)

§Queen Borough Bronze & Brass Foundry
 *†Steinway & Sons (Piano Plates, etc.)
 *Sweeney & Gray (Engineers & Machinists)
 MASPETH—(N. Y. City)—*†§Richey, Browne & Donald (Iron Arch'l & Ornamental Work & Castings)

Borough of Richmond.

PORT RICHMOND—*§Burlee Dry Dock Co.
 *Carlson & Russ (Inc.)
 WEST NEW BRIGHTON—*†Hunt, C. W. Co. (Automatic Coal & Ore Handling Machy.)
(END OF NEW YORK CITY)
 NIAGARA FALLS—*Carborundum Co. (Carborundum Wheels & Machinery)
 *Cataract Machine & Auto. Co.
 *†Central Machine Co.
 *Chisholm-Scott Co. (Pea Hulling Machinery, etc.)
 *Concrete Hydraulic Machine Co.
 *†§DOBBIE FOUNDRY & MACHINE Co. (Hoisting Engines, Cars, Cranes, Hoists & Iron & Brass Castings, etc.) (See adv. index, end of book)
 *Farrar, Frederick (Machinist)
 *McGarigle Machine Co.
 †Niagara Foundry Co.
 *Niagara Tachometer & Instrument Co.
 *Philpot & Leuppie (Machinists)
 *†Ramapo Iron Works (Cars, Castings & General Track Equipment). Works, Hilburn, N. J.

NORTH HARPERSFIELD—†Dayton, Wm. H.
 NORTH TONAWANDA—*†American District
 *Buffalo Bolt Co. Steam Co.
 *†Buffalo Steam Pump Co. (Steam Pumps, etc.)

*†§Herschell, Spillman & Co. (Merry-go-Rounds, etc., & Park Carnival Devices)
 *†Niagara Radiator Co.

NORWICH—*Maydole, David Hammer Co.

NORWOOD—*Crouch, W. N.

NUNDA—*Foote Mfg. Co. (Concrete Mixers & Gas Engines)
 NYACK—*Ofeldt, F. W. & Sons (Gas & Gasoline Engines, etc.)

OGDENSBURG—*Feil, Jos. E.
 *Glass, John
 *§Linton, W. H. Co. (Brass Goods, etc.)
 *†Nash Bros. & Co. (Steam Engines, etc.)
 *Ontario Plow Co. (Agrl. Impls.)

OLD CHATHAM—*†Hubert, Geo. A. (Plows & Castings)

OLEAN—*†Ahhott, D. S. Co. (Machinists)
 *†Carley Heater Co. (Tan Liquor Heaters & Coolers)

*Chamberlin Mfg. Co. (Screw Stump Machines)

*†Luther Mfg. Co. (Punching & Shearing Machinery, etc.)

*†Myrick Machine Co. (Gas Engines, etc.)

ONEIDA—*Coles Tool & Machine Co.
 †Kelly, Thos. & Son (Iron Fdry.)

*Oneida National Chuck Co. (Chucks, Mandrels, etc.)

†Oneida Steel Pulley Co. (Pulleys, etc.)
 *Warner Safety Boiler Co. (Boilers, etc.)

*Wescott Chuck Co. (Chucks, etc.)

ONEONTA—*Gorham, H. E. (Machinist)
 †Mayne, Thos. E. (Iron Fdry.)

ORANGEBURG—Dustin, Chas. E. Co. (Electrical Machinery). (See New York City)

*Empire Engine & Motor Co. (Air Tools, etc.)

ORISKANY—†Oriskany Malleable Iron Co.

OSSINING—§Hub Foundry & Plating Co.
 *†Ingersoll-Rand Co. (See New York City)

*Kipp, Abram, Jr. (Machinist)

OSWEGO—*†Ames Iron Works (Engines & Boilers)
 *Baker, Benj. (Machinist)

*Howard Thermostat Co. (Heat Regulators, etc.)

*†Kingsford Foundry & Machine Works (Steam Engines, etc.)

*Kitts Mfg. Co. (Steam Specialties, etc.)

*†Oswego Boiler & Engine Co. (Engines, Boilers, etc.)

†§Oswego Bronze & Foundry Co.

*Oswego Machine Works (Neil Gray, Jr., Prop.), (Paper Cutting Machines, etc.)

*Oswego Tool Co. (Dies, Tools, etc.)

*Railway Steel Spring Co. (See New York City)

OWEGO—*Champion Wagon Co. (Grain Drills, etc.)
 *Stevens, Norton A. (Machinist)

OXFORD—*Butts-Nash Co. (Machinists)
 PAINTED POST—†Allen, E. R. Foundry Co.
 *†Imperial Engine Co. (Engines, etc.)

PALMYRA—*†Peerless Printing Press Co.

PARISHVILLE—*Robinson & Meekham.

PATCHOGUE—*Roe, Justus & Sons (Rowler Awning Fixtures, Tape Measures, etc.)
 PEARL RIVER—*Braunsdorf, Jno. H. (Printing Presses)
 *†Dexter Folder Co. (Paper Folding Machinery)
 PEEKSKILL—*Anderson Machine Works (Machinists)
 *†Crane, Wm. M. Co. (Gray Iron Castings, etc.) (See New York City)
 *Fox, Joseph M.
 *Miller Mfg. Co. (Auto Specialties)
 *†Naylor Bros. (Brick Machinery, etc.)
 *†Southard, Robertson Co. (Stoves). (See New York City)
 *†Union Stove Works (Stoves, Furnaces, etc.) (See New York City)
 PENN YAN—†Commercial Iron Works Co.
 PHELPS—*†Crown Mfg. Co. (Grain Drills, etc.)
 PHOENIX—†Sturgis Bros.
 PIFFARD—*Shattuck, T. N.
 PLATTSBURGH—*†Plattsburgh Foundry & Machine Co.
 PORT CHESTER—*†Abendroth Bros. (Cast Iron Pipe, Stoves, Furnaces). (See New York City)
 *†Globe Foundry Co.
 *Port Chester Machine Works
 *Russell, Burdall & Ward Bolt & Nut Co. (Bolts, Nuts, Screws, etc.)
 PORT JERVIS—*†Gordon & Malven Co. (Stoves)
 *†Swinton & Co. (Inc.) (Fdrs. & Hardware)
 POTSDAM—†Raquette Foundry & Supply Co.
 *Leete, Charles H. (Iron Fdry.)
 POUGHKEEPSIE—*†Adriance, Platt & Co. (Agricultural Implements)
 *Chapinville Wheel Co. (Rakes, Harrows, Seeders & Sowers, etc.)
 *†De Laval Separator Co. (Dairy Implements, etc.)
 *†Dutchess Foundry Co.
 *Hart, Frederick (Builds and Develops all Kinds of Inventions and Special Machinery)
 *†Lane Bros. Co. (Door Hangers & Hardware Specialties)
 *†Hudson River Foundry Co.
 *†Poughkeepsie Foundry & Machine Co.
 *Sedgwick Machine Co.
 *Standard Machine Key Mfg. Co.
 PULASKI—†Olmsted, A. E. (Iron Fdry.)
 RAMAPO—†Ramapo Foundry & Wheel Works (Car Wheels & Castings of all descriptions)
 RANDOLPH—*†Pike, F. H. (Foundry & Machinist)
 RICHFORD—*Hilts Wrench & Mfg. Co. (Car Movers, Pipe Wrenches, etc.)
 RIPLEY—*Ripley Mfg. Co. (Gas Engines, etc.)
 *Ripley Pipe Wrench Co. (Pipe Wrenches, etc.)
 RIVERHEAD—*Hudson, S. T. (Agrl. Impls., etc.)
 ROCHESTER—*Almstead Electric Co., 48 N Clinton
 *†American Woodworking Machinery Co. (Woodworking Mach'y)
 *†Anstice, Josiah & Co. (Hardware Specialties), 220 N Water
 *Ashley Machine Works, 714 University av
 *Auburn Ball Bearing Co. (Ball Bearings, etc.)
 *Baxendale, T. R. (Machinist), 85 Allen
 *Beers Bros. (Gasoline Engines, etc.), Culver rd at Canal
 *Booth Bros. (Shoe Machinery), 22 Brown's race
 *Bourne, Jno. R. (Dies, etc.), 111 State
 *Bridgeford Machine Tool Works (Axle Turning & Engine Lathes), 225 Mill
 *†Brownell-Trebert Co. (Motors, etc.), 407 St Paul
 *Carlton Mfg. Co. (Metal Specialties)
 *Case Chicle Co. (Vending Machines), 5 Lundy's lane
 *Century Cement Machine Co., 181 Main W
 *Clark Novelty Co. (Metal Specialties, Light Machinery, etc.), 380 Exchange
 *Clum & Atkinson (Plumbers' Brass Goods & Brass & Comp. Castings), 575 Lyell av
 *Cochrane-Bly Co. (Cold Saw Cutting-off Machines, etc.), St. James
 *†Connell & Dengler Machine Co. (Woodworking Machinery), 254 Mill
 *†Co-Operative Foundry Co. (Stoves, etc.), 15 Hill
 *Crescent Electrical Mfg. Co. (Motors, Electrical Supplies, etc.)
 *Davis, W. P. Machine Co. (Machine Tools, etc.), 130 Mill
 *Defiance Machine Co. (Check Protectors), 89 Main E

*Economy Gas Machine Co. (Gas Engines), 469 E Main
 *†Enterprise Foundry Co. (Hot Air Furnaces, Soil Pipe & Castings), 48 Olean
 *Erdle Perforating Co. (Machine Tools, etc.), Mill, cor Factory
 *†Erie Foundry Co. (Iron Fdrs), 330 Lyell av
 *†Eureka Foundry Co. (Iron Founders, Heavy & Machinery Castings, etc.), Falls ft. of Brown
 *Fitt, Jas. S. & Co., 106 Commercial
 *Funk, Philip, 161 N Water
 *†Galusha Stove Co. (Stoves), 167 Court
 *General Railway Signal Co. (See Buffalo, N. Y.)
 *§Genesee Metal Works (Brass Founders, Smelters & Refiners), 109 Hague
 *†Gleason Works (Iron Founders, Gears, etc.) Brown's race
 *Goette, Rudolph, 293 Mill
 *†Hagen, A. T. Co. (Laundry Machinery), 266 Lyell
 *†Heughes, F. L. & Co. (Iron Founders & Builders' Iron Work), 190 South av
 *Ingle Machine Co., 220 Mill
 *†Jones, J. Emory (Est. of) (Foundry & Machinist), Brown's race, ft Furnace
 *†Judson Governor Co. (Steam Engine Governors), Brown's race & Furnace
 *Klip-Klip Co. (Nail Clippers), 574 Clinton av S
 *KNOWLTON, M. D. CO. (Paper Box Machinery). (See adv. index, end of book)
 *Kohlmets, Chas. E. (Machinist, etc.), 178 N. Water
 *Kraft, Victor L., 46 N. Water
 *Kron & Moore (Machinists), 13 Aqueduct
 *Long, Adam A. (Special Machinery, Tools & Dies), 13 Graves
 *Mack & Co. (Edge Tools, Machine Knives), 18 Brown's race
 *Modern Laundry Machine Co. (Laundry Machinery), 123 Ames
 *Morgan Machine Co. (Boxmakers' Machinery, etc.), 1100 University av
 *Mutschler, A. (Elevator Motors, etc.), 268 State
 *Mutschler, Henry G., 77 N Water
 *§National Brass Mfg. Co. (Metal Specialties), 193 Mill
 *†§National Car Wheel Co. (See Allegheny, Pa.)
 *Northway, Thos. J. (Machinist), 92 Exchange
 *§Nunn Brass Works (Brass Founders & Finishers), 17 Wentworth
 *†Otis Elevator Co. (See New York City)
 *Otis, Frank H., 191 Mill
 *Parry, Samuel R. (Paper Box Machinery), 191 State
 *Patric, Milan N. (Machinists, Punches, Dies, etc.), Bee Hive bldg.
 *†Pullman Mfg. Co. (Hardware Specialties, etc.), Pullman bldg
 *Rochester Barrel Machine Works (Barrel & Shingle Mill Machinery, etc.), 10 St. James
 *Rochester Electric Motor Co. (Elec. Machy, etc.), 3 Frank
 *Rochester Machine Tool Works (Automatic Engines, etc.), 3 Frank
 *Rochester Radiator Co., 268 State
 *Rochester Roll Grinding & Corrugating Co., 218 Mill
 *Rochester Valve Co. (Valves, etc.), Beckley bldg
 *Ryede Specialty Works (Vending Machines & Metal Specialties), 187 Main W
 *†§Sargent & Greenleaf Co. (Bank & Safe Locks, etc.), 176 Court
 *Schirck, Edw. (Machinist), 22 Spring
 *†Sill Stove Works (Stoves), 524 Oak
 *Stein, Wm. P. & Co., 282 State
 *§Stromberg-Carlson Telephone Mfg. Co. (Telephones, etc.)
 *Taylor Bros. Co. (Barometers, Hydrometers, etc.), Ames st
 *Tibbills Mfg. Co., 84 Flint
 *Trebert Gas Engine Co., 163 W Main
 *Truesdale, S. B. & Co. (Dies, Tools, etc.), 236 Mill
 *Tucker, Geo. A. (Machinist & Small Machinery), 14 Commercial
 *U. S. Standard Voting Machine Co. (Voting Machines)
 *Werner, John (Confectionery Machinery), 729 Lake av
 *West Tire Setter Co. (Tire Setters, etc.), 509 E. & B. bldg
 *Wilson, W. A. Machine Co. (Machine Tools, etc.), 217 N Water
 *§Wray, Henry & Son (Brass Founders), 193 Mill

Wray Pump & Register Co., 191 Mill
 ROME—*†Adams, S. & Son.
 *§Doyle, W. J. (Light Machinery, Brass & Aluminum Castings, etc.)
 *Empire State Engineering Co. (Dynamometers, Motors, Blowers, etc.) (See New York City)
 *Harris, C. S. Co. (Power Hoisting & Carrying Machines)
 *Long-Turney Mfg. Co. (Motors, etc.)
 *†Maxwell & Fitch Co. (Gasoline Engines, etc.)
 Noonan, A. S. Tool & Machine Works (Auto & Bicycle Tools, etc.)
 *§Rome Brass & Copper Co.
 *†Rome Locomotive & Machine Works
 *†Rome Metallic Bedstead Co.
 *§Twin Co. Stamping Works (Brass Castings & Fittings)
 *Utica Industrial Co. (Machinists)
 ST. JOHNSVILLE—*Clark Machine Co. (Grain Threshers, etc.)
 SALAMANCA—*†Benedict Mfg. Co. (Engines, etc.)
 SALEM—*Wayman, Sam'l T.
 SANDY HILL—*†Friction Pulley & Machine Works
 *Hibbard Gas Engine Co. (Gas Engines, etc.)
 *†§Sandy Hill Iron & Brass Works (Paper Mill Mach'y & Iron & Brass Castings)
 SARATOGA SPRINGS—*†Baker & Shevlin Co. (Paper Mill Machinery)
 *Perfect Mfg. Co. (Tools, etc.),
 SAUGERTIES—*†Canner, P. (Brick Machinery & Castings, etc.)
 SAUQUOIT—*Townsend, Z. P.
 SCHENECTADY—*†American Locomotive Co. (See New York City)
 *Diamond Novelty Co. (Vending Machines, etc.)
 *†§GENERAL ELECTRIC CO. (Electric Generators & Machinery). (See adv. index, end of book)
 *Phillips, S. C. (Broom Machinery)
 *†Westinghouse Co. (Agricultural Implements, Threshers, Stackers, etc.)
 SENECA FALLS—*†American La France Fire Engine Co. (Fire Engines & Apparatus).
 *Cast Thread Fitting & Foundry Co.
 *§Climax Specialty Co. (Plumbing Specialties)
 *Davis, E. C. & Co. (Plumbing Specialties)
 *†GOULDS MFG. CO. (Steam Pumps, etc.). See adv. index, end of book
 *§Rumsey & Co. (Steam Pumps, Fire Engines, etc.)
 *†Seneca Falls Mfg. Co. (Foot Power Machinery, etc.)
 SHORTSVILLE—*§American Seeding Machine Co. (Grain Drills, etc.), (See Springfield, O.)
 *Star Seeder Co. (Agrl. Impls) field, O.
 SIDNEY—*Lakin, Bruce (Machinist)
 SILVER CREEK—*Hammond-Homberger Co. (Mill Machinery)
 *†Howes, S. Co. (Grain, Coffee & Rice Cleaning Machinery, etc.)
 *†Huntley Mfg. Co. (Grain, Rice & Coffee Cleaning Machinery, etc.)
 *†Invincible Grain Cleaner Co. (Flour Mill & Grain Cleaning Machinery, etc.)
 SILVERNAILS—†Hicks, J. A.
 SKANEATELES—*Polley & Bassett (Gas Engines)
 SODUS—*Parsons-Lane Co. (Tools, etc.)
 *†Sodus Foundry Co. (Iron Foundry)
 SOLVAY—*Pass & Seymour (Electric Specialties)
 SPENCERPORT—*Wallace & Ireland (Potato Diggers)
 SPRINGVILLE—*Smith & Smith
 STOCKPORT—*Philip, Rossman
 SYRACUSE—*Ames Iron Works (Engines, etc.), The Bastable
 Barber Bros. (Steam & Gasoline Engines), 500 E Water
 *Boggs & Clark (Sentrifugal Pumps, etc.)
 *†Boomer & Boschert Press Co. (Presses, etc.), 329 W Water
 *†Bradley, C. C. & Son (Power Hammers, etc.), 432 N Franklin
 *Breads, Fred A. & Co. (Machinists), 328 E Water
 *Carr Bros. (Machinists), 107 N Franklin
 *§Central City Brass & Mfg. Co.
 *Central City Bolt Co. (Door Hangers, Bolts, Nuts, etc.), 1620 N Salina
 *†Central Iron Works (Machinists, Fdrs., Engineers, etc.), 920 Belden
 *Cornwell, R. M. Co. (Inc.) (Gasoline Engines, Dynamometers, Motors)
 *Crouse-Hinds Co. (Electrical Specialties), 308 W Jefferson
 *Direct Separator Co. (Steam Specialties), 216 S Gedder

*Dodge Machine Works (Machinists), 920 W Onondaga
 *Doyle & Devereaux
 *Dunning, Wm. D. (Plaster Mixers & Pulleys, Shafting & Castings), 329 W Water
 §Edwards, O. M. Co. (Window Fixtures, Railway Devices, etc.)
 †Empire Foundry Co., 325 Wolf
 *†Engelberg Huller Co. (Rice & Coffee Machinery, Grey Iron & Brass Castings), 831 W Fayette
 *§Franklin H. H. Mfg. Co. ("Franklin" Metal Castings)
 †Frazer & Jones Co. (Harness Hardware & Malleable Iron Castings), 351 W Fayette
 *Frick Bros. (Machinist), 304 Pearl
 *Gale, O. Milton (Tools, Special Machy., Gears, etc.), 303 Wallace
 *Gooley & Edlund, 581 S Clinton
 *Herrick, Geo. S. (Machinist), 132 N Warren
 *Houser Elevator Co. (Elevators), 314 E Water
 *Kane & Roach (Carriage Bldrs.' Machinery), Niagara & Shonnard
 Kemp & Burpee Mfg. Co. (Manure Spreaders), 1117 W Fayette
 *King, Wm. P. Tool Works
 *Landers, W. H. & Co. (Stoves, Furnaces, Ranges, etc.)
 *Lefever Arms Co. (Automatic Hammerless Guns, etc.)
 *Leighton, H. J. (Marine Gasoline Engines), 901 W Fayette
 *Lipe, Chas. E. (Est. of) (Dies, Tools & Special Machinery), 208 S Geddes
 *Lipe & Walrath (Broom Sewing Machines), 208 S Geddes
 *Llewellyn & Doyle
 §McVey & Kratz (Brass Founders), 116 Richmond
 *Miller Combination Tool Co. (Tools, etc.)
 Moore Mfg. Co. (Hoisting Machines, etc.), 102 N Beach
 *Myers Break Finder Co. (Electrical Testing Instruments), 102 S Warren
 §Oberdorfer Brass Co. (Brass Founder), 804 E Water
 *†Pierce, Butler & Pierce Mfg. Co. (Radiators & Heating Apparatus), 236 James
 *Pneumelectric Machine Co. (Electric Mining Drills, etc.)
 *†Powell, E. C. (Machinist), 352 W Fayette
 †Reddin Iron Works (Iron Founders), 408 Marcellus
 *Sanderson, William (Yacht Engines, Propeller Wheels, etc.)
 §Senk, John & Bro. (Brass Founders), 1515 Lodi
 *Shaw Coupling Co. (Machinists), 803 W Fayette
 *†Smith Premier Typewriter Co. (Typewriters)
 *†Smith & Caffrey -Co. (Props Phoenix-Porter Fdry.), (Grey Iron Castings & Ornamental Iron Work) 1425 N Salina
 *Standard Gauge Mfg. Co. (Steam Gauges)
 *†Stearns, E. C. & Co. (Typewriters & Hardware Specialties), 100 Onelda
 *†Straight Line Engine Co. (Grey Iron Castings, Loam or Green Sand to 20,000 lbs.), 218 S Geddes
 §Syracuse Aluminum & Bronze Co.
 *†Syracuse Chilled Plow Co. (Plows, Harrows, Cultivators, etc.), 111 Wyoming
 *§Syracuse Faucet & Valve Co. (Brass Founders, Finishers & Plumbers' Brass Goods), 1620 N Salina
 †Syracuse Foundry Co. (Iron Founders), W Towpath nr N Y C R R bridge
 *Syracuse Heater Co. (Heating Apparatus), 245 W Fayette
 *†Syracuse Malleable Iron Works (Refined Air Furnace & Iron Castings), 121 N Geddes
 *†Syracuse Stove Works (Stoves, Ranges & Furnaces)
 *Syracuse Time Recorder Co. (Time Recorders), 225 Walton
 *Syracuse Twist Drill Co. (Twist Drills, etc.), 936 Grape
 *Van Wie Pump Works, 715 W Fayette
 *Ward-Watson Machine Co. (Special Machinery, etc.), Grant pl
TARRYTOWN — *INGERSOLL - RAND
 Co. (See New York City)
 *Koenig, N. & Sons
 *Maxwell, Briscoe Motor Co. (Motors, etc.)
 THERESA—†Wakefield, Jas. W.
 THIROOPSVILLE—*Meyer & Co. (Coll & Spiral Nuts, Axle Collars, etc.)
 TICONDEROGA—*†Ticonderoga Mach. Works (Paper & Pulp Mill Machy.)
 TONAWANDA—*Gille Engine & Machine Co. (Brass & Iron Fdry., Deck Engines, etc.)
 *Mahar, John (Engines, Boilers, etc.)

TROY—*Adams Laundry Machinery Co. (Laundry Machinery)
 *†Bascom & Co. (Stove Patterns, etc.)
 *Bernard, E. G. Co. (Dynamos & Motors, etc.)
 *Bradt Mfg. Co. (Card Machines)
 *Brown, Eugene H.
 *Bunnell, L. S. (Machinist)
 *†Burdett-Smith & Co. (Stoves)
 *†Carr, Jos. B. Co. (Chains, etc.)
 *Covert Fire Escape Co. (Fire Escapes, etc.)
 *Covert Mfg. Co. (Hardware Specialties)
 *Eclipse Machine Co. (Sheet Metal Workers' Machinery & Tools)
 *Eclipse Machinery Co. (Collar & Cuff Machinery)
 *Excelsior Implement Co. (Agri. Implem'ts)
 *Federal Railway Signal Co. (Railway Signals, etc.)
 *†Federal Smelting Co.
 *†Fuller & Warren Co. (Stoves & Heating Apparatus)
 *†Gold Coin Stove Co. (Stoves)
 *Gormley, Robert W. & Co. (Textile Machinery, etc.)
 *§Gurley, W. & L. E. (Surveying Instruments, etc.)
 *Hammett, Hiram G. (Railroad Supplies)
 *Hanna Mfg. Co. (Engineering Instruments)
 *†Hislop, Jas. W. (Iron Foundry & Scale Mfr.)
 *International Machinery Co. (Laundry Machy., etc.)
 *§Kemp, William & Son (Brass & Copper Founders, Railroad Castings, etc.)
 *†Knowlson & Kelley (Corliss Engines, Castings, etc.)
 *†Ludlow Valve Mfg. Co. (Iron & Brass Founders, Valves, Fire Hydrants & Water Works' Supplies)
 *Mahony, Albert D. (Furnaces, Boilers, etc.)
 *†Mahony Mfg. Co. (Iron Founders, Builders' Iron Work, Hot Water & Steam Heaters, etc.)
 *§Meneely Bell Co. (Bell Founders, etc.)
 *Micrometer Balance Scale Co.
 *Morey, Alex. W. (Machinist)
 *†National Machine Co. (See Mamaroneck, N Y)
 *†Neemes Bros. (Machinery Castings, Shaking Grates, etc.)
 *†Phillips & Clark Stove Co. (Stoves) (See Geneva, N. Y.)
 *Prankard, Chas. J. & Sons (Paper Box & Laundry Machy.)
 *†Rensselaer Mfg. Co. (Iron Founders, Vales, Fire Hydrants & Waterworks Supplies)
 †Reynolds Chalou Foundry Co. (Heavy Machinery & Small Grey Iron Castings)
 *†Reynolds, Geo. W. H. Fdry. Co. (Machinery, Grey Iron Fdrs., etc.)
 *†Ross Valve Co. (Valves, Fire Hydrants, etc.)
 *†Sweet & Doyle Valve Co. (Valves, etc.)
 *†Taylor Electric Truck Co. (Electric Car Trucks, etc.)
 *Tolhurst Mach. Works (Textile Machy.)
 *Tompkins Bros. Co. (Textile Machinery)
 *†Torrance Malleable Iron Co.
 *†Trojan Brake Shoe & Foundry Co.
 *Troy File Works (Files, etc.)
 *†Troy Laundry Machinery Co. (Ltd.) (Laundry Machinery)
 †Troy Malleable Iron Co. (See Watervliet, N. Y.)
 *†Troy Scale Co. (Scales)
 *†West Side Foundry Co. (Gray Iron & Brass Castings & Hot Air Furnaces, etc.)
 *†West Side Structural Co.
 *Wheian, Dennis J. (Machine Tools, etc.)
TRUMANSBURG—*Almy, Samuel & Son
 (Rollers, Plows, etc.)
 *Morse Thermo Gauge Co. (Heat Measuring & Registering Specialties)
UTICA—*Blaiser, M. E. & Co. (Gas & Electric Fixtures, Hdwe. Specialties, etc.)
 *Bossert Electric Construction Co. (Machinists & Electrical Specialties)
 *Childs, Chas. H. & Co. (Cultivators, etc.)
 *Childs, O. J. Co. (Fire Extinguishers, etc.)
 Divine Bros. Co. (Buffing & Polishing Wheels, etc.)
 *Eureka Mower Co. (Cultivators, Mowers, Planters, etc.)
 *Fisher Knitting Machine Co. (Textile Machinery)
 *†Foster Bros. Mfg. Co. (Iron Beds, etc.)
 *†Giblin & Co. (Stoves, Furnaces, etc.)
 †Gilroy, J. H.
 *Haden, Thos. J.
 *†Hart & Crouse Co. (Heating Apparatus, Hot Air Furnaces, etc.)
 *Holdredge, Burton

*†International Heater Co. (Heating Apparatus, etc.)
 *Jones, Frank L. (Cheese Factory & Creamery Machy. & Supplies)
 *†Munson Bros. Co. (Flour, Corn & Feed Mill)
 *†New York Radiator Co. (Radiators, etc.)
 *Savage Arms Co. (Fire Arms, etc.)
 *Schrier, Walter (Machinists & Elevators)
 *Sherman, S. F. (Canning Machinery)
 *†Standard Harrow Co. (Cultivators, Harrows, Corn Shellers, etc.)
 §Utica Brass Works (Brass Founders)
 *Utica Drop Forge & Tool Co. (Forgings, Hardware & Specialties, etc.)
 *Utica Fire Alarm Telegraph Co.
 *†Utica Heater Co. (Heaters & Furnaces)
 *Utica Industrial Co. (Machy., etc.)
 *†Utica Pipe Foundry Co. (Cast Iron Soil Pipe, etc.)
 *Utica Sprayer Co. (Sprayer Pumps)
 *†Utica Steam Engine & Boiler Works (Engines, Boilers & Machinery)
 *Weston-Mott Co. (Automatic Parts, Axles, etc.)
VERNON—*†Pohl, Geo. D. Mfg. Co. (Gasoline Engines, etc.)
VOORHEESVILLE — †Bloomingtondale, Frank
 (Iron Fdry.)
WALTON—†Hoyt, L. E. Co. (Iron Fdry.)
WARSAW — *†WARSAW ELEVATOR
 Co. (Elevators, Barrel Elevating & Conveying, Salt Well, Special, etc.) (See adv. index, end of book)
 *†Warsaw-Wilkinson Co. (Ensilage Cutters, etc.)
WARWICK—*Richardson, H. W. & Son
WATERFORD—*†Eddy Valve Co. (Valves, Fire Hydrants, etc.)
 *Holroyd & Co. (Taps, Reamers, Screw Plates, etc.)
 *King, J. M. & Co. (Stocks & Dies)
 *Miller, H. C. (Collar & Cuff Machines)
 §Roberts & Holloway (Brass Fdry.)
 *Snyder & Metcalf (Machine Tools)
WATERTOWN—*†Bagley & Sewell Co. (Iron Fdrs. & Paper & Pulp Mach'y)
 *Barber-Weekes Electrical Co.
 †Brownville Iron Works
 *†Harmon Machine Co. (Machinists, etc.)
 *†Massey Machine Co. (Machinists)
 *†New York Air Brake Co. (Air Brakes & R. R. Appliances). See New York City
 *Stebbins Eng. & Mfg. Co. (Mill Machinery)
 *Union Carriage & Gear Co.
 *†Watertown Engine Co. (S. F. Bagg, Prop.), (Steam Engines, Saw Mills, etc.)
 *Watertown Motor Co. (Motors, etc.)
 Watertown Spring Works
 *Watertown Thermometer Co.
 *§Wise, J. B. (Hdw. Specialties, etc.)
WATERVILLE—*†Berrill's, J. A. Sons (Iron & Brass Fdrs., etc.)
 *Daniels, Sam'l A. (Machinist)
 *†Waterville Fdry. & Mfg. Co.
WATERVLIET—*†Aird-Platt Mfg. Co. (Iron Fdrs. & Machinists)
 †Covert Mfg. Co. (See Troy, N. Y.)
 *†Jones, J. M. Sons (Electric Cars)
 *King Mfg. Co. (Waste Traps, etc.)
 *§Meneely, Geo. R. & Son (Car Bearings)
 *§Meneely & Co. (Bell Fdrs.) See Troy, N. Y.
 †Troy Malleable Iron Co. (See Troy, N. Y.)
 *†West Side Foundry Co. (See Troy, N. Y.)
 *†Watervliet Foundry & Machine Co.
WEEDSPORT—*Burritt, O. W. & Bro. (Machine Tools, etc.)
WELLSVILLE—*†Clark & Norton Mfg. Co.
 (Engines, etc.)
 *Gallman, C. H. & Bro.
 *Kerr Turbine Co. (Steam Turbines)
 *†McEwen Bros., Inc. (Steam Engines, etc.)
WESTMORELAND—†Westmoreland Malleable
WEST SHOKAN—*Forbes, Ira C. Iron Co.
WILLIAMSON—*Fuller & Cooper (Spraying Machines, etc.)
WOLCOTT—*†Curtis, O. M. (Machinist)
 †Knapp, F. P. (Iron Fdry.)
YONKERS—†Allen, David E. (Iron Fdry.)
 *Conley, Jno. J. (Machinist & Millwright)
 *Danner, Ad. (Machinist)
 *†Eickemeyer & Osterheld Mfg. Co. (Experimental Machy. & Iron & Brass Castings)
 *Hargreaves, Jno. D. (Machinists)
 *Morris, Thos. (Machinist)
 *Ostrander Steam Rotary Engine Co. (Steam Engines, etc.)
 *†Saunders', D. Sons, Inc. (Pipe Cutting & Threading Machines)
 *Segsneider, Rudolph G.
 *Skinner & Connolly (Machinists)
 *Van Auken & Clevaue Co. (Steam Specialties, Marine Motors, etc.)
YOUNGSTOWN—*†Ripson, Wm. & Son (Iron Fdrs. & Plows, Cultivators, etc.)

NORTH CAROLINA.

ASHEVILLE—*Ashville Supply & Fdry. Co.
 †Piedmont Supply & Foundry Co.
 AURORA—*Cherry Implement Co. (Agrl. Impls.)
 BISCOE—*Biscoe Foundry & Machine Co.
 BURLINGTON—Petty Machine Co.
 *Virginia Bridge & Iron Co. (Bridge & Steel Structural Work, etc.)
 CARDENAS—*Wake Machine Works
 CHARLOTTE—†Charlotte Pipe & Foundry Co. (Cast Iron Pipe, etc.)
 *Cole Mfg. Co. (Cotton Planters)
 *Jarrell, W. G. Machine Co.
 *Liddell Co. (Engines & Machinery & Castings)
 *Mecklenburg Iron Works (Saw Mill & Mining Mach'y, etc.)
 *Moffatt Machinery Mfg. Co. (Pumps, Elevators, etc.)
 *Park Mfg. Co., Inc. (Belt & Power Elevators, etc.)
 *Tompkins, D. A. Co. (Steam Engines & Mach'y)
 CORNELIUS—*Miller Mfg. Co. (Mach'nists & Iron & Brass Castings of all Kinds)
 DURHAM—*Durham Iron Works
 ELIZABETH CITY—†Elizabeth City Iron Works
 FAYETTEVILLE—*†Carolina Machine Co.
 *Clark, I. W.
 †Ward, Thos.
 GOLDSBORO—*†Dewey Bros. (Iron Fdrs., etc.)
 *Wayne Agricultural Works (Plows, etc.)
 GREENSBORO—*Clymer Machinery Co. (Steam Heaters, Valves, Boxes)
 *†Glascock Stove & Foundry Co. (Stoves & Hollow Ware, Plow Castings, Special Machinery, etc.)
 *Globe Plow Co. (Plows, etc.)
 *Gray, R. A.
 *Greensboro Boiler & Machine Co.
 *Petty-Reid Co.
 *†Sergeant Mfg. Co. (Fdrs. & Machinists & Agl. Impls.)
 *Wyland-Newman Machine Co.
 *Wysong & Miles Co. (Woodworking Machinery)
 GREENVILLE—*Humber, R. L.
 HAWRIVER—†Thompson, J. & Son
 HICKORY—†King Heater Co. (Heaters, Stoves, etc.)
 *Latta-Martin Pump Co. (Pneumatic Pumps)
 *†Piedmont Fdry. & Machine Co.
 HIGHPOINT—*Highpoint Machine Works (Mach'nists)
 *†High Point Metallic Bed Co. (Mach'nists)
 †High Point Pipe & Fdry. Co. (Sol. Pipe, etc.)
 JACKSON—*Moore, John E.
 KENLY—*Earle, S. S. (Plows, etc.)
 KINGSTON—*†Hodges, E. M.
 LAURINBURG—*Blue, Jno. (Machinist)
 LEXINGTON—*Lexington Metal Bed Co.
 LINCOLNTON—†Eureka Mfg. Co.
 NEWBERN—*†Newbern Iron Works
 NORTH WILKESBORO—†Wallace, J. V.
 PEMBROKE—*†Pembroke Iron Works (Plows, etc.)
 PINETOWN—*Parker, Surrey (Mach'y, Engines, etc.)
 RALEIGH—†Gill, J. H. (Iron Fdry.)
 *†Raleigh Iron Works Co.
 ROCKY MOUNT—*Rocky Mount Machine Co.
 SALISBURY—*†Thompson, P. H. (Fdry. & Machinist)
 SANFORD—*†Moffitt Iron Works Co. (Engines, etc.)
 SHELBY—†Cleveland Iron Works
 STAR—*†Star Machine Co.
 STATESVILLE—*†Steele, J. C. & Son (Brick Mach'y, etc.)
 THOMASVILLE—*McNight, L. G. & Son
 WAKE FOREST—*†Wake Forest Foundry Co. (Plows, etc.)
 WANANISH—*Council Tool Co. (Tools, etc.)
 WASHINGTON—*†Mutual Machine Co. (Fdrs. & Machinists)
 *†Pamlico Iron Works (Fdrs. & Machinists)
 WILLIAMSTON—*Woolard, J. L. (Harrows, etc.)
 WILMINGTON—*Cape Fear Machine Works
 *Hanover Iron Works
 WILSON—*†Davis, W. J. Machinery Co.
 WINSTON SALEM—†Cook, W. B. & Co.
 *†Salem Iron Works (Engines, Saw Mills, Coffee & Rice Plantation Mach'y, etc.)
 *†Vance, J. A. & Co. (Fdrs. & Machinists, Woodworking Mach'y, etc.)

NORTH DAKOTA

CANDO—*†Cando Implement Co. (Agrl. Implements)
 DEVILS LAKE—*†Dacotah Machinery Co.

ECKMAN—*Prairie Machine Co. (Agrl. Impls.)
 FARGO—*Fargo Bridge & Iron Co.
 †Fargo Foundry Co.
 GRAND FORKS—†Dow, Daniels (Iron Fdry.)
 *Ridler & Maguire
 LANGDON—*McMillan Machine Co.
 PARK RIVER—*Holland, Sam'l
 VALLEY CITY—*Noxon Bros.
 WAHPETON—†Richter, J. J.

OHIO.

ADDYSTON—†U. S. Cast Iron Pipe & Fdry. Co. See New York City
 AKRON—*†Adamson, Alex. (Rubber Machinery, etc.)
 *†AKRON CULTIVATOR CO. (Agrl. Impls., Cultivators, etc. (See adv. index, end of book))
 *Akron Electrical Mfg. Co. (Dynamos, Generators, etc.)
 *†Akron Foundry Co. (Machinery Castings, etc.)
 *Akron Friction Clutch Co. (Friction Clutches)
 *Akron Selie Co. (Wagon Gears)
 *†Atlantic Foundry Co. (Rubber Mfg. Mach'y)
 *Automatic Clutch Co. (Friction Clutches, etc.)
 *Brandon Machine Co. (Mitering Machines, Mounting Presses, etc.)
 *Bridgewater, H. H. Co.
 *Budd, Harry T. (Dies, etc.)
 *Burger Iron Co. (Bldrs. Iron Work)
 *Burt Mfg. Co. (Oil Filters, etc.)
 *Crown Drilling Machine Co. (Well Drilling Mach'y)
 Enterprise Mfg. Co. (Metal Specialties & Fishing Tackle, etc.)
 *†Fieberger Heating Co. ("Ath-a-Nor" Heating Stoves)
 *Gari Electric Co. (Annunciators & Telephones & Apparatus)
 *Harpham & Lutz (Machinists)
 *†International Harvester Co. (Buckeye Works). (See Chicago, Ill.)
 *Jones & Kuhlke (team Engine Gov-ernors)
 *Kille Mfg. Co. (Sucker Rods)
 *Knaak's Machine Shop (Engineers & Machinists)
 §Krisher, P. A., Brass Foundry
 *Lombard-Replogle Engineering Co. (Water Wheel Governors)
 *National Water Wheel Governor Co. (Water Wheel Governors, etc.)
 *†May & Fieberger (Hot Air Furnaces)
 *Niagara Fire Extinguisher Co. (Fire Extinguishers)
 *†Nute, T. C., Foundry Co. (Lawn Vases & Chairs)
 *Ornamental Iron Works Co. (Hot Water Heating Apparatus)
 †Rohrbacher & Allen (Furnaces)
 *Sackman, Walter L. (Steel Stamps, Stencils & Seals)
 *†§Star Drilling Machine Co. (Well Drilling, Mach'y, etc.)
 *†§Tuplin, Rice & Co. (Stoves, Furnaces, Clay Working Mach'y, etc.)
 *†WELLMAN - SEEVER - MORGAN Co. (See Cleveland, O. (See adv. index, end of book))
 *†WHITMAN & BARNES MFG. CO. (Agricultural Impls., Twist Drills, etc.). See also Chicago, Ill. (See adv. index, end of book)
 *†Williams Foundry & Machine Co. (Pottery & Rubber Machinery)
 *Wise Furnace Co.
 ALLIANCE—*Alliance Machine Co. (Cranes, Riveters, Punches, Steam Hammers, Presses, Sbears & Rolling Mill Mach'y)
 †American Steel Foundries Co. (Open Hearth Castings). (See Chicago, Ill.)
 †Bauch, Fred'k (Mach'y, Castings & Land Rollers)
 *†MORGAN ENGINEERING CO. (Cranes, Steam Hammers & Hydraulic & Rolling Mill Mach'y). See adv. index, end of book)
 *Reeve Bros. Co. (Boilers, Tanks, etc.)
 *Woods Engineering Co.
 ASHLAND—*†Ashland Steel Range & Mfg. Co.
 *Hunter, Jas. S.
 *†Myers, F. E. & Bro. (Pumps & Agl. Impls., etc.)
 *Safety Door Hanger Co. (Door Hangers)
 ASHTABULA—American Fork & Hoe Co. (See Cleveland, O.)
 *American Snap Co. (Saddlery Hwd. Specialties)
 †Ashtabula Fdry. Co. (Cast Iron Soil Pipe)
 *Ashtabula Mfg. Co. (Hdw. Specialties)

*†Barber Mfg. Co. (Furnaces, Hdw. & Plumbers' Specialties & Iron Fdrs., etc.)
 *Harris-King Fence Machine Co. (Heavy Fence Machines)
 *†McKinnon, W. S. (Iron Fdry., etc.)
 Noyes Heater Co. (Heaters, Furnaces, etc.)
 *†Phoenix Iron Works (Iron Fdrs., etc.)
 ATHENS—*†Athens Fdry. & Machine Co.
 *†Hudson School Furniture Co.
 AVERY—*Hoover-Prout Co. (Potato Diggers, etc.)
 BARBERTON—*†Babcock & Wilcox Co. (Water Tube Boilers & Castings) (See New York City)
 *†Diamond Match Co.
 *Hist Mfg. Co. (Potato Diggers, etc.)
 *†§Pittsburg Valve & Fitting Co. (Valves, Pipe Fittings & Iron & Brass Castings)
 *†Stirling Consolidated Boiler Co. (Wartertube Boilers & Boiler Castings, etc.) (See New York)
 BARNESVILLE—*Hali, Geo. D.
 *†Watt Mining Car Wheel Co. (Mine Cars & Wheels, etc.)
 BATAVIA—†Batavia Foundry Co.
 *Carroll-Jamieson Machine Tool Co. (Foot Lathes, etc.)
 BEDFORD—*†Interstate Engineering Co. (Cranes, Hoists, Conveying & Special Machinery, Steel Structural Work, etc.)
 BELLAIRE—*†Bellaire Stove Co. (Stoves)
 †Dorer, C. L. Fdry. Co.
 BELLEFONTAINE—*†Bellefontaine Bridge & Iron Co.
 *†Bellefontaine Foundry & Machine Co. (Steam Shovels, Dredges, Castings, Re-pairs, etc.)
 *Bowman, John W. & Son
 *Hennese, D. R.
 *†Humphrey, Chas. S. (Iron Fdry., etc.)
 *Parker, J. A.
 BELLEVUE—*†Ohio Cultivator Co. (Agricultural Impls., etc.)
 BEREIA—*†Dunham, J. W. & Son (Harrows, Corn Shellers, etc.)
 BLUFFTON—*Bluffton Cream Separator Co.
 *Green, Arthur
 *Sanitary Cream Separator Co. (Cream Separators)
 BOWLING GREEN—*Lefever, D. M. Co. (Fire Arms)
 †Leonard Stove & Range Co. (Stoves, Ranges, etc.)
 *†Ohio Implement Co. (Garden Tools, Farm Implements & Light & Heavy Grey Iron Castings)
 *†Standard Machinery Co. (Bolt Cutters, Pipe Machines, etc.)
 *Safety Steel Derrick Co. (Steel Derricks)
 BRADNER—*†Bradner Mach. & Fdry. Co.
 BRIDGEPORT—*Hill, Thomas.
 BRILLIANT—*Hunter & Son
 BRYAN—*†Bryan Plow Co. (Plows, Harrows, etc.)
 *Woodward, Edwin
 BUCYRUS—*†American Clay Machinery Co. (Brick & Clay Mach'y, etc.)
 *†Carroll, P. J.
 *New York Blower Co. (Blowers, etc.)
 *†Shunk Plow Co. (Agrl. Impls., Plows, Cultivators, etc.)
 BUTLER—†Butler Steel Furnace Co.
 CADIZ—*Cadiz Electric Co. (Electrical G'ds)
 *Scott Bros. (Hardware Specialties)
 *Ward, W. G. (Machinist)
 CALDWELL—*†Caldwell Mining Car & Fdry. Co. (Cars, etc.)
 CAMBRIDGE—*Crossen Machine Works
 CANAL DOVER—*†Dover Mfg. Co. (Sad-Irons, etc.)
 *Hardesty Mfg. Co.
 *Wagner Bros.
 CANAL FULTON—*†Fulton Machine Co. (Agrl. Implements, Land Rollers, etc.)
 *†Fulton Pitt Car Works (Industrial Steel Cars, etc.)
 *Fulton Tool Works.
 CANTON—†Alliance Foundry Co.
 *†American Roll & Machine Co. (Rolling Mill Mach'y, etc.)
 *†American Sheet & Tin Plate Co., Roll Machine Works (Rolling Mill Mach'y, etc.)
 ARCTIC ICE MACHINE CO. (Ice Machine. Valves & Fittings)
 Armor Clad Mfg. Co. (Special Mach'y, etc.)
 *Aultman Engine & Thresher Co. (Trac-tion Engines & Threshing Mach'y)
 *Balm, J. A. (Brass Foundry)
 *§Best Light Co. (Incandescent & Vapor Gas Lamp Burners, Aluminum & Brass Castings, etc.)
 *†BONNOT COMPANY (Brick, Clay Working & Cement Mach'y, etc.)
 *†Bucher & Gibbs Plow Co. (Agrl. Impls., Plows & Cultivators)
 *Buckeye Mfg. Co. (Post Hole Diggers, etc.)
 *†Canton Boiler & Engineering Co. (Boil-ers, Heaters, etc.)

- *†Canton Bridge Co. (Bridges, Turntables, etc.)
- *Canton Drop Forging & Mfg. Co. (Drop Forgings & Machinists)
- *†**CANTON FOUNDRY & MACHINE** Co. (Sheet Metal Working Machinery, Castings, etc.) (See adv. index, end of book)
- *§Canton Malleable Iron Co. (Saddlery Hardware, etc.)
- *†Canton-Hughes Pump Co. (Steam Pumps, etc.)
- *†§Canton Saw Co. (Woodworking Mach'y, etc.)
- *†Cleveland Axle Mfg. Co. (Axles, etc.)
- *Cleveland-Canton Spring Co. (Carriage Springs, etc.)
- †Columbia Iron & Wire Works
- †Dick, Jos. Agricultural Works (Agrl. Impts.)
- *Diebold Safe & Lock Co. (Bank Vaults, Safes, etc.)
- *Dueber Watchcase Mfg. Co. (Watch Cases, etc.)
- *†Elbel Co. (Saddlery Hdw. & Castings)
- *§Frankham, Wm. (Models, etc.)
- *Gibbs Mfg. Co. (Hardware Specialties)
- *Goughnour Electric Co. (Dynamos, etc.)
- *Hampden Watch Co. (Watch Mfrs., etc.)
- *Hurst, H. L. Mfg. Co. (Spray Pumps, Hdw. Specialties, etc.)
- *Knight Mfg. Co. (Saw Mill Mach'y, etc.)
- *Kohler, F. E. & Co. (Garden Tools & Hdw. Specialties, etc.)
- *†McLain, J. H. Co. (Heating Apparatus, etc.)
- *Miller Pasteurizing Machine Co. (Pasteurizing Machines, etc.)
- *†Miller-Tyson Co. (Pasteurizing Mach'y, etc.)
- *Ney Mfg. Co. (Haying Tools, Carriers, etc.)
- *Ney, V. L. Co. (Haying Tools, Carriers, Lawn Rakes, Post Hole Diggers, etc.)
- *†Novelty Iron Co. (Radiators, Heating Apparatus, Castings, etc.)
- *Ohio Dental Mfg. Co. (Dental Mach'y, etc.)
- *†Pittsburg Pneumatic Co. (Pneumatic Tools, etc.)
- *Roemer Reversible Lever Tongs Co. (Tongs, Pipe Wrenches, etc.)
- *†Stark Foundry Co.
- *§Sun Vapor Street Light Co. (Incandescent & Vapor Street Lamps, etc.)
- *Swineford, G. A. Co. (Haying Tools, etc.)
- *Timken Roller Bearing Axle Co. (Roller Bearings for Vehicles, etc.)
- *†United Foundry & Machine Co.
- †§Whiteman Mfg. Co. (Tumbler Washers, etc.)
- CAREY—*†Carey Foundry & Machine Works CARTHAGE—See Cincinnati, O.
- CELINA—*†Struckman, Geo. W. (Machinist & Foundry)
- CHAGRIN FALLS—*†Ober Mfg. Co., (Woodworking Machinery, Sad-Irons, etc.)
- †Semi-Steel Co. (See Cleveland, O.)
- CHATHAM—*Shaw, W. A.
- CHILLICOTHE—*†B. & O. South Western Railway (Shops)
- *Deschler, August (Machinist)
- *Deweese, F. M. (Lifting Jacks, etc.)
- *Schwartz, M. & Son (Lifting Jacks, etc.)
- *Young, Jno. (Machinist)
- CINCINNATI—*Ahrens Fire Engine Co. (Steam Fire Engines, etc.), Alfred & Cook
- *Alpine Safe & Lock Co., 903 Freeman
- *American Brass Works (Plumbers' Brass Work), 426 Plum
- *†American Laundry Machinery Co. (Laundry Mach'y, etc.), Norwood
- *†American Tool Works Co. (Machine Tools, Lathes, Planers, Shapers, Drills, etc.), 6th & Eggleston av
- *†§American Valve & Meter Co. (Water Cranes, R. R. Switches, Valves & Castings), 1125 Gest
- *Andrew, M. L. & Co. (Woodworking Machinery, etc.), 2852 Spring Grove av
- *Atlas Machine & Tool Works, 206 Ludlow
- *Barker, Wm. & Co. (Machine Tools, etc.), Culvert & Pioneer
- *Barnes, Chas. Co., 55 Main
- *Barriett (Electric Motors) 327 E 6th
- *†Baum, J., Safe & Lock Co. (Safes)
- *Berghausen Machine Co., 601 Lock
- *Bickford Drill & Tool Co. (Machine Tools, Upright Drills, etc.), Front & Pike
- *†Blettner, Jos. B. & Co. (Soap & Candle Mach'y), 1974 Central Ave
- *Block-Pollak Iron Co. (See Chicago, Ill.)
- *†Blymyer Iron Works Co. (Iron Fdrs., Sugar, Coffee & Rice Plantation Mach'y), Spring Grove Ave & Terrace Pl
- †Bollmann-Wilson Foundry Co., Norwood
- *†§Bourbon Copper & Brass Works (Fire Hydrants, Stop Valves, Extension Valve Boxes & Iron & Brass Fdrs., etc.), 618 E Front
- *Bradford Machine Tool Co. (Machine Tools, Engine Lathes, etc.), 657 Evans
- *†Bruce, Jno. J. (Iron Fdrs., Machine Tools, etc.), 942 Kenyon av
- †Buckeye Foundry Co. (Iron Fdrs., Machinery Castings, etc.), Buck, nr Queen City av
- *†Bullock Electric Mfg. Co. (Dynamos, Generators, etc.), East Norwood
- *Buob, Fred. Machine Co. (Machinists), 423 Home
- *Burton Range Co. (Steel Ranges, 115 W 5th
- *Canda, Leo Mfg. Co. (Slot Machines), 717 Sycamore
- *Carlisle & Finch Co. (Searchlights & Motors, etc.), 231 E Clifton av
- *Champion Tool Works Co. (Lathes)
- *Cincinnati Ball Crank Co. (Machine Handles, Ball Crank)
- *§Cincinnati Bell Foundry Co. (Bell Fdrs., etc.), Spring Grove av & Township
- *†Cincinnati Car Co. (Electric Car Builders), Winton pl
- *Cincinnati Electrical Tool Co. (Electric Drills & Grinders), 650 Evans
- *Cincinnati Elevator Works (Elevators, etc.), 216 W 2d
- Cincinnati Equipment Co. (Locomotives, Cars, Steam Shovels, etc.), Culloms Station
- *§**CINCINNATI MFG. CO. (BRASS & BRONZE FDRS. & ORNAMENTAL IRON, BRASS & BRONZE WORKS), 1243 W 6th.** (See adv. index, end of book)
- *Cincinnati Machine Tool Co. (Machine Tools), Spring Grove av & Township
- *Cincinnati Milling Machine Co. (Machine Tools, etc.), Spring Grove av & Alfred
- *†Cincinnati Planer Co. (Machine Tools), 2235 Buck
- *†Cincinnati Punch & Shear Co. (Punching & Shearing Machinery, etc.), 1422 Plum
- *Cincinnati Screw & Tap Co. (Taps, Screws, Nuts, etc.), 2442 Beekman
- *Cincinnati Shaper Co. (Machine Tools, etc.), Elam & Garrard av
- *Cluthe, G. Co. (Edge Tools & Hdw. Specialties), 28 E Court
- †Columbia Foundry Co., Perin bldg.
- *Columbia Iron Works (Bldrs.' Iron Work), 725 Reading Rd
- *Consolidated Time Lock Co. (Time Locks, etc.), 315 W 4th
- *Cordesman-Rechtin Co. (Woodworking Machines), Butler opp. P. C. C. & St. L. R'y
- *Cordesman, Meyer & Co. (Woodworking Machines, etc.), 55 Central av
- §Crane & Breed Mfg. Co. (Metallic Burial Cases, etc.), 1227 W 8th
- *Curran, Jas. H. Elevator Co. (Elevators), 114 W 2d
- *†Day, J. H. Co. (Laboratory & Pulverizing Mach'y, etc.), 1144 Harrison av
- *§Deckebach, F. C. Sons Co. (Brass Fdrs. & Finishers), 123 W Court
- *Deters, F. & Co. (Pop Corn Mach'y, etc.), 906 Elm
- *Deutschle, Louis (Machinist, Lithographing & Printing Mach'y), 1017 Plum
- *§Douglas, Jno. Co. (Plumbing Goods), 2126 Winchell av
- *Dreses Machine Tool Co. (Machine Tools, etc.), 227 W McMicken av
- *Economy Machinery Co., 428 E Pearl
- *Eagle Tool Co. (Tools, Fire Extinguishers, etc.), Blue Rock & Turrill
- §Edna Smelting & Refining Co. (Car & Motor Brasses & Castings), 525 Hunt
- *§Electric Railway Equipment Co., 1938 W 8th
- *§Enterprise Brass & Plating Works (Carriage Mountings, Brass Finishers & Platers, etc.), 2838 Spring Grove av
- *†Erhart, Chris. (Filter Presses, Castings of Every Description, etc.), 1237 W 6th
- §Eureka Brass Works (Brass Fdrs.), 217 W 2d
- †Eureka Foundry Co. (Iron Fdrs., etc.), 1110 Richmond
- *†Fay, J. A. & Eagan Co. (Woodworking Mach'y, etc.), Front & John
- *§Fewlass Leen Brass & Iron Co. (Brass Fdrs. & Finishers), 456 E 2d
- *Fosdick Machine Tool Co. (Machine Tools), Blue Rock & Apple
- *Francis, Chas. E. & Bro. (Woodworking Mach'y, etc.), 423 E 8th
- *Freeman, Louis G. (Shoe Mach'y), 212 E 9th
- *Frisbie Engine & Machine Co. (Engines, etc.), 33 E Water
- *†Fritsch, Francis Mfg. Co. (Engineers, Millwrights, Founders & Machinists), 225 W McMicken av
- *Gang, Wm. E. Co. (Machine Tools), 1543 Queen City av
- *Geier, Jno. (Special Machinery), 325 W 2d
- *German-Russell Co. (Machinists & Pipe Fitters), 222 E 9th
- §Globe Brass Works, 62 Elm
- †Globe Foundry Co., 121 W 2d
- *Gray, G. A. Co. (Machine Tools), C. H. & D. R. R. & Gest
- *Greaves, Klusman & Co. (Machine Tools & Woodworking Mach'y), Cook & Alfred
- *†Greenwald, I. & E. Co. (Engines, Gears, Powder Mill & White Lead Machinery, etc.), 720 E Pearl
- *Grever, Edwin C. & Co. (Laundry Machinery), 53 Central av
- *Grimm, I. & Co. (Bldrs.' Iron Works), 155 E McMicken av
- †Grossius, Jno. Furnace Co. (Warm Air Furnaces, Heaters, etc.), 409 E 8th
- ***HALL SAFE CO. (Safes & Bank Vaults), Spring Grove & Kinney.** (See adv. index, end of book)
- *Hardisty & Co. (Augers, Machine Knives, etc.), Harris & Penna. R. R.
- *Hasenzahl, Wm. (Diamond Rock Drills), 315 E 2d
- *§Hauck Mfg. Co. (Art, Brass, Bronze & Britannia Castings, etc.), 322 W Pearl
- †Haven Malleable Casting Co., Dane, Knowlton & C. H. & D. Ry.
- *Hefiman, Jno. C. (Confectionery Machinery), C. H. & D. Ry. & Gulow
- *Henrichson Scale Co. (Butchers' Scales), 1421 Walnut
- §Hilb, L. (Smelting & Refining, etc.), 206 W 2d
- *Hilbert Machine Co., 2116 Colerain av
- *Hisey-Wolf Machine Co. (Machine Tool Grinders, Drills, etc.), 2852 Spring Grove av
- §Hoffman-Ahlers Co. (Coppersmiths, etc.), 828 E Pearl
- *Homan & Co. (Candle Moulding Mach'y, etc.), 214 E 7th
- *Homann Model Works, 427 Main
- *§Hoppe, Chas. & Co. (Brass Goods), 632 Main
- *†Houston, Stanwood & Gamble Co. (See Covington, Ky.)
- †Huenefeld, Ernst H. Co., Inc. (Steel Ranges, etc.), Spring Grove av & Straight
- *†Incandescent Light & Stove Co., 420 E Pearl
- *International Harness Machinery Co. (Harness & Leather Working Mach'y), 630 Sycamore
- *Jantz & Leist Electric Co. (Dynamos, etc.), 808 Elm
- *Johnston, R. C. & Co. (Machinists & Engineers), 633 Walnut
- *Johnston, Wm. T. Co., 520 Main
- *Keene, Geo. C. & Co. (Sheet Metal Workers' Mach'y & Tools), 2327 Florence av
- *King Machine Tool Co. (Machine Tools), Clifton & Spring Grove avs, W P
- Kingery Mfg. Co. (Confectioners' Machinery, etc.), 106 E Pearl
- §Kinsley, J. R. (Brass Fdrs.), 115 E 6th
- *§Kirkup, Robt. & Co. (Brass Fdrs. & Finishers, Plumbers' Brass Goods), 616 Lodge
- *§Kisinger-Ison Co. (Brass Frs. & Street Sweeping Machines & Street Ry. Supplies), 472 Pioneer
- *†Klaine, F. A. & Co. (Stoves), Front & Central
- *§Klotter, Geo. F. Co. (Brass Frs., etc.), 1722 Central av
- *Knecht Bros. Co. (Machine Tools), 2454 Beekman
- †Knecht, Victor Co. (Iron Fdrs.), 819 Wade
- *Kuehnle, Jno. & Son (Edge Tools, Machinists' Bits & Cutters for Woodworking Machinery), 2110 Coleraine av
- *†Lane & Bodley Co. (Air & Gas Compressors, Corliss & Slide Valve Engines, etc.), John & Water
- *Le Blond, R. K. Machine Tool Co. (Machine Tools, etc.), 4621 Eastern av
- *†Limberg Enameling Co. (Enameled Iron Bath Tubs & Iron Castings, etc.), Florence av & Symmes

*§Lipp, Louis Co. (Plumbing Goods), Mitchell av & B. & O. S. W. R. R.
 *Lodge & Shipley Machine Tool Co. (Machine Tools, etc.), 3055 Colerain av
 †Lotze's, A. Sons & Co. (Steel Ranges, Hot Air Furnaces, etc.), N W c 8th & B'way
 *†**LUNKENHEIMER CO. (Brass & Iron Fdrs., Steam, Water & Engineering Specialties),** Waverly av & Beekman. (See adv. index, end of book)
 *Lynn Filter Mfg. Co. (Water Filters), 3250 Spring Grove av
 *McFarlan & Spilker Mfg. Co. (Picture Frame Mach'y, etc.), 1652 Dorman
 *†§McGowan, Jno. H. Co. (Pumpjng & Tobacco Mach'y & Brass & Iron Fdrs., etc.), 54 Central av
 ***McKEOWN, H. J. (Hoisting Machy., etc.),** 248 Butler (See adv. index, end of book)
 *MacLeod, Walter & Co. (Paint Spraying Machines, Air Compressors, etc.), 213 E Pearl
 *†Merrie Hugh (Plumbing Goods), 226 E 8th
 *§Messmer, Andrew Co. (Brass Fdrs. & Finishers), Patterson & Bank
 *Metzger, J. Mfg. Co. (Machinists), 2165 McLean av
 *Miami Machine Co. (Gasoline Engines, etc.), 2259 Eastern av
 *Miller, Du Brul & Peters Mfg. Co. (Cigar & Cigarette Mach'y, etc.), 507 E Pearl
 *†Miller, Wm. Range & Furnace Co. (Ranges, Furnaces, etc.), 125 E 5th
 †Morris, Jno. B. Foundry Co. (Iron Fdrs. & Machinists, Light Mach'y & Castings, etc.), 933 Harriet
 *†Mowry Car Wheel Works Co. (Car Wheels and Iron Castings) 2401 Eastern avenue
 *Muehlmann, Adolph (Tools, etc.), 5th & Elm
 *Mueller Machine Tool Co. (Machine Tools, Radial Drills, etc.), 216 W Pearl
 *§National Brass Mfg. Co. (Furniture & Hearse Trimmings, etc.), 1115 Marshall av
 *National Machine Tool Co. (Key Seat Millers, etc.), 208 Lawrence
 †Nichol, Thos. J. & Co. (Brass Fdrs. & Finishers' Plumber Goods), Pearl & Ludlow
 *Niebling, F. W. Co. (Ice Machinery), Norwood
 *Nunning, Frank & Son (Machinists, etc.), 215 W 2d
 †Oberhelman, J. A. Foundry Co. (Iron Fdry.), Harrison av & Buck
 *Oesterlein Machine Co. (Machine Tools, etc.), 2850 Spring Grove av
 *Ohio Knife Co. (Machine Knives, etc.), 9th & McLean av
 Parks Ball Bearing Machine Co. (L. F. Parks, Prop.), (Woodworking Mach'y, etc.), Knowlton & Fergus
 *†Peck-Hammond Co. (Hot Air Furnaces, Heating & Ventilating, etc.), 124 E Pearl
 *†Peck-Williamson Co. (Iron Fdrs.), 335 W 5th
 *§Pfau Mfg. Co. (Plumbing Supplies), 536 Reading rd
 *Pfister, Herman (Engineering & Surveying Instruments, etc.), 428 Plum
 *Pocock, Oliver (Sheet Metal Workers' Mach'y & Tools), 1042 Harriet
 *Post-Glover Electric Co. (Electric & Elec. Railway Specialties), 314 W 4th
 *†§Powell, Wm. Co. (Steam & Engineering Specialties & Brass Fdrs.), 2525 Spring Grove av
 Queen City Forging Co. (Carriage Hdw. etc.), Tennyson & Dumont
 §Queen City Brass & Iron Works (Brass), Spring Grove & Garrard av
 †Queen City Foundry Co., Spring Grove av
 *Queen City Machine Tool Co. (Machine Tools), Sycamore & Webster
 *Queen City Punch & Shear Co. (Punching & Shearing Mach'y), 208 Lawrence
 *Rahn Carpenter Co. (Machine Tools), Spring Grove av & Garrard av
 *Randall & Co. (Harness & Horse Collar Machinery), 802 W 6th
 *†Randle Machinery Co. (All Kinds of New & Second Hand Re-Built Machinery), Powers & C. H. & D. Ry.
 *Rechtin, Louis E. & Bro. (Woodworking Mach'y), 412 E Pearl
 ***REEDY, H. J. CO. (Elevators, etc.),** 15 W 2d. (See adv. index, end of book)
 *†Resor, William & Co. (Stoves, etc.), C. H. & D. Ry. No. of Gest
 *†Richter & Co. (Brass Fdrs. & Finishers, Plumbers' Brass Goods), 210 E 9th

§Riegler, Alex., 316 Perry
 *Robinson, J. M. Mfg. Co. (Sheet Metal Workers & Tools), Spring Grove av
 Ross, Jas. (Saws, etc.), 107 E Court
 *Ross-Moyer Mfg. Co. (Boot, Shoe & Harness Machinery), 634 Sycamore
 *Schacht Mfg. Co. (Mach'y Specialties), 2727 Spring Grove av
 *Schellenbach & Darling Tool Co. (Reamers, etc.), 211 E 9th
 *Schraver, O. P. & Co. (Hardware, etc.), 214 Elm
 *§Schroder, J. B. & Co. (Builders' Hardware, etc.), 133 E 5th
 *†Schreiber, L. Sons Co. (Structural, etc.), 8th & Eggleston av
 *†Schulte, Jno. A. & Co. (Stoves & Steel), 2619 Colerain av
 *Schumacher & Boye (Machine Tools), 2245 Spring Grove av
 *Shepard Lathe Co. (Machine Tools), 131 W 2d
 *Shields & Finch (Elevator Gates, etc.), 231 Sycamore
 *Sicking, Barnard, 1931 Freeman av
 *Simmons, W. H. & Co. (Machinists), 424 E Second
 *Smith, Myers & Schnier (Steam Engines, Saw Mills, etc.), 621 W Front
 *Smith & Mills (Machine Tools, Crank & Geared Shapers, etc.), Spring Grove av & Township
 *Stacey Mfg. Co. (Bldrs. Iron Work, Gas Meters, Bench Castings, etc.), Township av & C., C. & St. L. Ry.
 *Standard Pulley Co., 466 Pioneer
 *Steigert, Leopold (Machinist), cor. Elder & Logan
 *Steptoe, Jno. Shaper Co. (Shaping Machines, etc.), 2951 Colerain av
 *†Stewart Co. (Bldrs. Iron Work, etc.), 3d & Culvert
 *†Stewart Iron Works Co. (See Covington, Ky.)
 *Straub Machinery Co. (Flour Mill Mach'y, etc.), 1956 W 6th
 *Streit, A. Machine Co. (Automobile Engines), 1110 Harrison av
 *†Superior Tool & Supply Co. (Mixers, etc.), 500 E Front, Cincinnati, Ohio
 *†Tatum, Saml. C. Co. (Grey Iron Castings, Copying Presses, Binders & Printing Machinery), 414 W Water
 *Towsley, Jno. T. Mfg. Co. (Woodworking Machy, etc.), Evans N of Gest
 *Trautman, J. A. & Co. (Machinists & Millwrights), 322 W 3rd
 *†Triumph Electric Co. (Ice Machines, Dynamo & Motors, etc.), 610 Baymiller
 *Triumph Mfg. Co. (Bakers' & Butchers' Machinery), Spring Grove av & Township
 *Tucker Machine Co. (A. P. Tucker, Prop.), (Tool Grinders, etc.), 224 E 9th
 †United Foundry Co. (McMicken & Dunlap)
 †United States Aluminum Castings Co. (Roller Brakes, etc.), 1623 Blue Rock
 *United States Electric Tool Co. (Electric Portable Hand Drills & Grinders), 1938 W 8th
 *U. S. Laundry Machinery & Supply Co. (Laundry Machinery), Broadway & 2nd, Cincinnati, Ohio
 *†Van, Jno. Range Co. (Stoves, Ranges, etc.), 419 Elm
 Vandewalle, Chas. & Co., Mt. Echo nr 6th
 *†Vanduzen, E. W. Co. (Pumps, Bell Fdrs., Gongs & Brass Castings.), 428 E 2d
 §Varwig Mfg. Co. (Brass Fdrs.), 120 Opera Place
 *Victor Safe & Lock Co. (Safes, Bank Vaults, etc.), 320 E 8th
 *Von Wyck Machine & Tool Co. (Machine Tools, Engine Lathes, etc.), Elmore & C. H. & D. R. R.
 †Vulcan Foundry Co. (Iron Fdrs. & Ma-
 *Wais, C. C. Machine Co. (Special Machine Tool Castings, etc.), 1984 Central av
 chinery), Plum & Pearl
 Walton Iron Co. (Bldrs. Iron Work, etc.), Spring Grove av & Monmouth
 *Ward, Wm. E. & Co. (Bldrs. Iron Work), 1347 Central av
 ***WARNER ELEVATOR MFG. CO.** (Electric & Hydraulic Elevators), Spring Grove av & Alfred. (See adv. index, end of book)
 *Watkins, F. M. Mfg. Co. (Gas & Gasoline Engines, Laundry Machinery, etc.), 6th & Baymiller
 *Watkins Laundry Machinery Co. (Laundry Machy), Spring Grove av & Alabama

*†Weir Frog Co. (Frogs, Switches, Crossings, etc.), Beach & Highland av, Norwood
 *Western Automatic Machine Co. (Slot Machines), 1012 Mercantile Library bldg
 *Willard Machine & Tool Co. (Machinists), 118 W 2d
 *§**WILLIAMS, D. T. VALVE CO. (Valves, Steam Traps, Steam Separators, etc.),** 904 B'way (See adv. index, at end of book)
 *Wolf Electrical Promoting Co. (Cloth Cutting Machinery), 128 Longworth
 *Wolff Machinery Co., 1080 Walnut
 Zering, H. Mfg. Co. (Trucks, Cars, Carts, Scales, etc.)
CIRCLEVILLE—*Circleville Lifting Jack Co.
 *Lutz, J. H. (Light & Specialty Machy., etc.)
CLEVELAND—*Acme Brass Works (Plumbers' Brass Goods), 2662 E 76th
 †Acme Foundry Co. (Fine Light & Medium Gray Iron Castings)
 *Acme Machinery Co. (Bolt, Nut & Rivet Machy.), St. Clair & Belden
 *§Adams-Bagnall Electric Co. (Arc Lamps, etc.), Stanton & C & P R R
 Aetna Brass Mfg. Co., 4800 Hamilton av
 *†Ajax Mfg. Co. (Forging Machines, etc.)
 §Allyne Brass Fdry Co. (Brass Fdrs., Aluminum, Brass & Bronze Castings), Schiely Ct nr E Prospect & C. & P. R. R.
 *American Ball Bearing Co. (Ball Bearings, etc.), Edgewater Park at L. S. & M. S. Ry.
 *§American Brass Mfg. Co. (Brass Finishers, etc.), 97 Woodland av
 *†American Fork & Hoe Co. (Forks, Hoes, etc.), American Trust bldg
 *American Machine & Mfg. Co. (Cranes, Power Hammers, etc.)
 *American Railway Signal Co. (Railway Signals & Switches, etc.)
 *†American Range & Foundry Co.
 *†American Ship Building Co. (Ships, Engines, etc.), 2017 Superior av
 *†American Steel & Wire Co. of New Jersey. (See Chicago)
 *†American Stove Co. (Steel Ranges & Gas, Gasoline & Oil Stoves), Perkins av & C & P R R. See St. Louis, Mo.
 *Anderson, V. D. Co. (Dryers, Tanks, Steam Traps, etc.), Landon & Nickel Plate R R
 †Atlantic Foundry Co. (Iron Fdrs., etc.), Morgan av, Erie R. R.
 *Atlas Car & Mfg. Co. (Industrial Cars, Axles, etc.)
 *Atlas Brass Mfg. Co. (Plumbers' Specialties)
 *Automatic Stamping Machine Co. (Machinists), E 2d & Highland av
 *Bardons & Oliver (Machine Tools, Turret Machines, etc.), 20 Water
 ***BARTLETT, C. O. & SNOW CO.** (Cement, Oat Meal & Palut Machy., etc.) (See adv. index, end of book)
 *Benson, Arza M. (Barrel & Stave Machy), 6303 Central av, S E
 *§Bishop & Babcock Co. (Brass Fdrs., Pumps, Air Compressors, Faucets & Brass Goods, etc.), Garfield bldg
 *Bollinger & Rieley Co. (Machinists), 1615 Merwin av, N W
 *Bomgardner Mfg. Co. (Lowering Devices), Detroit av & Berea rd
 *†Born Steel Range Co. (Steel Ranges & Cooking Apparatus), 1984 Pearl
 †Bowler Foundry Co. (Iron Fdrs.), 1688 Columbus rd, N W
 *†Brightman Furnace Co. (Iron Fdrs.), 2570 B'way
 *Brightman Machine Co. (Machinists, etc.), Quincy at C. & P. R. R.
 †Brooks, T. H. & Co. (Iron Fdrs. & Bldrs. Iron Works), 3104 Lakeside av
 *§Brookside Brass Foundry & Mfg. Co. (Brass Fdrs. & Finishers), 2315 Selzer
 §Bronson-Walton Co. (Hardware Specialties, Coffee Mills, etc.), 119 Shore Line
 *†**BROWN HOISTING MACHINERY** Co. (Coal & Ore Handling Machinery, etc.), St. Clair, N E (See adv. index, end of book)
 Browning Engineering Co. (Cranes, etc.)
 *Bruce-Meriam-Abbott Co. (Gas & Gasoline Engines, etc.), 1688 Columbus rd
 *§Buckeye Brass Foundry Co. (Brass Fdrs. & Finishers)
 *Bultman, F. H. & Co. (Gear Cutting Machines, etc.), 2108 Superior
 *Burke Machinery Co. (Machine Tools)
 *Burton & Johnson (Machinists), 2301 Center, N W

- *§Central Brass Mfg. Co. (Brass Fdrs. & Finishers, Plumbing Goods), 6119 Cedar av
- *Champion Steel Range Co. (Steel Ranges, etc.), 2100 Pearl
- *Chandler & Price Co. (Printing Presses & Mach'y), 6000 Carnegie av, S E
- *Chase Machine Co. (Engines, Towing Machines, etc.), 111 Elm
- ***CHICAGO PNEUMATIC TOOL CO.** (Pneumatic Tools), 1356 Lake. See Chicago
- Chisholm, Wm. & Sons (Coal & Ore Handling, etc.), 358 Case av.
- *†**CHISHOLM & MOORE MFG. CO.** (Castings, Chain Hoists, etc.), Lake nr Kirtland. (See adv. index, end of book)
- §City Brass Foundry Co. (Brass & Composition), 32 St. Clair av
- *City Machine Co. (Special Mach'y. & Macaroni Mach'y), 430 Prospect, N W
- *Cleveland Armature Works (Dynamos & Motors, Armatures, etc.), 4732 St. Clair av
- *Cleveland Automatic Machine Co. (Automatic, Chucking, Screw Machines, etc.), 131 2d av
- *Cleveland Block Co. (Malleable Iron Tackle Blocks), 1173 River
- §Cleveland Brass Works (Brass Fdrs.), 226 Abbey
- *§Cleveland Bronze & Brass Works (Brass Fdrs. & Plumbers' Brass Goods), 4606 Hamilton av
- *Cleveland City Forge & Iron Co., 1191 E 40th
- *†Cleveland Co-operative Stove Co. (Stoves) Baden av, S E c Central av at C. & P. R. R.
- *§Cleveland Faucet Co. Brass Fdrs., Faucets, Air Compressors, Pumps, etc.), 21 Frankfort
- *Cleveland Flue Cleaner Mfg. Co. (Boiler Flue Cleaners & Emery Wheel Dressers, etc.), 321 Frankfort av, N W
- †Cleveland Foundry Co. (Oil & Gas Stoves, etc.), Platt & C. & P. R. R.
- *Cleveland Frog & Crossing Co. (R. R. Frogs, etc.), Bessem & C. & P. & Erie R.R.
- *Cleveland Gas Meter Co. (Gas Meters, etc.), 32 Glendale av
- *§Cleveland Gas & Electric Fixture Co., Rose bldg
- *†Cleveland Hardware Co. (Founders & Hardware), Colonial Arcade
- *Cleveland Machine Knife Co. (Machine Knives, etc.), 5 West
- *Cleveland Machine & Mfg. Co. (Rolling Mill Work & Forgings), 4944 Hamilton av
- ***CLEVELAND PNEUMATIC TOOL CO.** (Pneumatic Tools) (See adv. index, end of book)
- ***CLEVELAND PUNCH & SHEAR** Works Co. (Machine Tools & Punching & Shearing Mach'y, etc.), 1306 E 40th (See adv. index, end of book)
- †Cleveland Steel Casting Co., Burlington & Hubbard
- *Cleveland Steel Range Co. (Steel Ranges, etc.), Detroit & State
- *Cleveland Twist Drill Co. (Twist Drills, etc.)
- *Clough & Witt Machine Co. (Machinists), Leonard & Winter
- *†Columbian Hardware Co. (Hdw. & Specialties), 1296 E 53d
- Cooper, Geo. & Co. (Carriage Springs, etc.), Western Reserve bldg
- *Cummer, F. D. & Son Co. (Asphalt, Brick machy, etc.), The Arcade
- *§Daykin Bros. (Pumps), 383 Pearl
- *De Mooy Bros. (Gas Engines, etc.)
- *†Duplex Mfg. & Foundry Co. (Catch Basins & Sewer Castings), New England bldg.
- †Duquesne Foundry Co., 2418 E 61st
- *Dyer Co. (Sugar Mach'y), New England bldg
- *†Eberhard Mfg. Co. (Saddlery Hdw. & Specialties), Tennyson & C & P R R
- *Economy Stove Co. (Gas Ranges, etc.), 2146 Scranton rd
- *Edmonds Elevator Co. (Elevators), 519 Champlain
- *Electric Controller & Supply Co. (Magnetic Clutch Driver), 7004 Central av, S E
- *Elliott Bros. Electric Co. (Dynamos, etc.), 970 Hamilton
- *Elliott, S. K. (Electrical Mach'y), 322 Champlain
- *Elwell-Parker Electric Co. of America (Generators & Motors, etc.), 4222 Hamilton av, N E
- *§Empire Brass Mfg. Co. (Brass Fdrs. & Fnsrs., Plumbers' Goods), 8410 Lake av
- *†Empire Plow Co. (Plows), 3164 E 65th
- *Eureka Machine Co. (Brewers' & Maltsters' Machinery), 2610 Vega av
- *Evers Iron Works (Special Mach'y), 1630 Columbus rd, S W
- †Fanner Mfg. Co., Pearl st, Bkin.
- *§Farnan Brass Works (Brass Fdrs. & Finishers, Steam & Plumbing Goods), 23 Center
- *†Ferro Machine & Foundry Co., 3195 E 66th
- Ferro Machine & Foundry Co., Wade bldg
- *†Ferrosteel Co. (Hot Air Registers, etc.), 425 Prospect av, N W
- Fitzsimons & Co. (Polished Steel Shafting, etc.), 2496 E'way, S E
- *Fix's Sons (Steam Flue Welding, etc.), Leonard & Winter
- *Foote, Burt & Co. (Machine Tools), 4101 St Clair
- *§Forest City Electric Co. (Electric Specialties), 111 Windsor av
- *†Forest City Fdry. & Mfg. Co. (Hot Air Furnaces, Grey Iron Castings, etc.)
- *Franke, H. Steel Range Co. (Steel Ranges, etc.), 1911 Harvard
- *†Fulton Foundry Co. (Castings & Switch Stands), Marquette & L. S. & M. S. Ry
- *§Gas Fixture & Brass Co., 318 High av
- *Geier, P. A. Co. (Machinery, etc.), 224 High
- *Gerlach, Peter Co. (Pail, Keg, Barrel & Shingle Mill Machinery, etc.), 1708 Columbus rd
- *§Glauber Brass Mfg. Co. (Brass Fdrs. & Finishers, Plumbing Goods), 4917 Superior
- *Globe Machine & Stamping Co. (Special Mach'y & Parts)
- *Grant Automatic Machine Co., 1271 Marquette rd
- *Hart Mfg. Co. (Pipe Cutting & Threading Machines), Wood & St. Clair
- *Hartz, Henry V. & Co. (Special Mach'y, etc.), 2225 Ashland rd, S E
- *Hertner Electric Co. (Dynamos, Motors, etc.), 707 Frankfort av, N W
- *Hewitt, E. A. & Co. (Machinists), 1232 E 3d
- *Hill Clutch Co. (Clutches & Power Transmitting), 1186 W 58th
- *Hohlfelder, F. (Machinist, etc.), Gordon av & L. S. & M. S. R. R.
- *Homer Commutator Co. (Commutators & Machinists), 4748 Hough av
- *Horsburgh & Scott Co. (Gears & Pinions, etc.), 5114 Hamilton
- §Hunger & Scheidegger (Brass Fdrs.), 928 Champlain
- *Hunt & Dorman Mfg. Co. (Tin, Sheet Iron, Brass & Copper Work, etc.), 2100 Superior av, N E
- §Ideal Bronze Co. (Brass & Comp. Castings, etc.), 1263 E 55th
- *Independent Mfg. Co. (Registers, Gas Heaters & Specialties)
- *Industrial Machine Works, 517 Huron rd
- †Interstate Foundry Co. (Light & Heavy Castings), C. & P. R. R. cor Sheridan
- *Jackson, C. E. & Co. (Machinists), 2098 W 3d
- †Johnston & Jennings Co. (Castings, etc.), E Madison av & L. S. & M. S. Ry.
- *†Kilhy Mfg. Co. (Nail, Wire, Rolling Mill & Sugar Machinery, Heavy Castings, etc.)
- *King Bridge Co. (Coal & Ore Handling Mach'y), Head of E 69th
- *Kirk, Latty Mfg. Co. (Bolts, Screws & Children's Steel Express Wagons & Velocipedes, etc.), West Madison av & N. Y. C. & St. Louis Ry.
- *Knight, J. C. & Son, 2192 E 65th
- *Konigslow, E. & Bro. Stamping & Tool Works (Dies, etc.), 325 Champlain av, N W
- *Laganke, Robt. F. (Machinist), 600 Huron rd, S E
- *Lane Tool Co. (Machine Tools & Steam Hammers), 4922 Hamilton av, N E
- Langenau Mfg. Co. (Brass & Iron Hdw. Specialties), Franklin, opp. W 84th
- *Lincoln Electric Co. (Dynamos & Motors), Caxton bldg
- *Loew Mfg. Co. (Brewers' & Bottlers' Machinery & Specialties)
- *Long-Arm System Co. (Ship Fittings, etc.) Lake & Wason
- *Lord, Bowler & Co. (Stone Working & Wood Extract Mach'y, etc.), 1004 Centre, N W
- *Lucas Machine Tool Co. (Machine Tools, etc.), Robison av at L. S. & M. S. Ry.
- *†McMyler Mfg. Co. (Quarry & Contractors' Machinery), 1799 Columbus rd, N W
- *††Macheth Iron Co. (Engines, Mach'y, Iron, Brass & Steel Castings, etc.), Winslow & Center
- †Madison Avenue Foundry Co. (Light & Heavy Machinery Castings, Grate Bars, Columns, Sewer Castings, etc.), 935 Madison rd, N E
- *Mather & Waechter (Machinists), 224 High av
- Miller Chemical Engine Co. of Ohio, 3 S Water
- *§Monarch Brass Co. (Plumbers' Brass Goods), 4607 Payne av
- *§Morreau Gas Fixture Mfg. Co. (Gas & Elec. Fixtures)
- *Murphy & Donnelly Boiler Co., 120 Elm
- *National Acme Mfg. Co. (Screen Machines) Stanton & C & P R R
- *†National Car Wheel Co. (See Allegheny, Pa.)
- *National Malleable Castings Co., 7706 Platt
- *National Safe & Lock Co., 2341 E 69th
- *National Tool Co. (Drill & Tap Chucks, etc.)
- *North Electric Co. (Switch Boards & Telephone Supplies), 408 St. Clair
- *Ohio Blower Co. (Blowers, Steam Separators, etc.), 326 Prospect av, N W
- *§Ohio Brass & Iron Mfg. Co. (Plumbers' Brass Goods, etc.), 8200 Franklin av
- *Ohio Ceramic Engineering Co. (Brick & Clay Machinery), Berea rd
- *Ohio Electric Works (Dynamos, etc.), 6304 Ellen
- †Ohio Foundry Co. (Iron Fdrs.), Giddings av & Stanton
- *Oram, Jno. S. (Barrel, Stave & Heading Mach'y), 1314 E 53d
- *Oster Mfg. Co. (Pipe Cutting & Threading Machines), 2057 E 61st Pl
- *†Otis Steel Co. (Steel Castings, etc.), 3131 Lakeside av
- *†§Palmer & De Mooy Foundry Co. (Grey Iron & Brass Castings & Machine & Brass Pattern Shop), Leonard & Winter
- *†§Peck, Stow & Wilcox Co., 776 Seneca (See Southampton, Conn.)
- *§Peerless Motor Car Co., E 93d & Quincy av, S E
- *Reliance Gauge Column Co. (Steam Specialties, etc.), Cleveland, Ohio
- *†Riverside Foundry Co. (Chilled & Grey Castings for Rolling, Chemical & Rubber Works, etc.)
- *Round, David & Son (Hoisting Machinery), 7625 B'way
- *§Royal Brass Mfg. Co., 3920 Superior
- *§Russ, A. E. Mfg. Co. (Anvils, Vises, Drills), 6813 Wade Park av
- *§Sanitary Co. (Brass Fdrs. & Finishers, Plumbing Goods), 1120 Prospect av, S E
- *Sawyer Gear Works, 102 St. Clair
- *†§Schneider-Trenkamp Co. (Gas Ranges, Brass Fdrs., etc.), 1787 E 40th
- †Semi-Steel Co. (Brick Machy., etc.), New England Bldg
- *†Sly, W. W. Mfg. Co. (Foundry Supplies, etc.), Train av, cor. Junction
- *Smith, W. A. & Co. (Hot Air Furnaces), 625 Champlain av, N Y
- *Specialty Machine Co., 2187 E 2d
- *Spotless Steam Sponger Co. (Sponging Machines), 2124 E 2d
- §Standard Brass Foundry Co. (Brass Fdrs.), 6521 Central av, S E
- *†Standard Car Wheel Co. (Car Wheels), Bessemer av nr Tod
- *†Standard Foundry & Mfg. Co. (Light Grey Iron Castings, etc.)
- Standard Lighting Co. (Gas Ranges, etc.)
- *Standard Pump & Engine Co. (Gas & Gasoline Pumping Engines)
- *†Standard Sewing Machine Co.
- Standard Steel Range & Mfg. Co., 2717 E 75th
- *Standard Tool Co. (Twist Drills, etc.), Central av & P R R
- †Superior Foundry Co. (Iron Fdrs.), 3542 E 71st
- *†Taylor & Boggis Foundry Co. (Iron Fdrs.), 1913 W 3d
- *†Tyler, W. S. Co. (Foundry & Iron & Brass & Wire Work), 3618 St. Clair

*§United Brass Mfg. Co., 3844 Hamilton
 *§United States Bronze Co., 1831 Columbus rd
 *†Van Dorn Iron Works Co. (Structural & Cast Iron Work), 2685 E 79th
 *Van Dorn-Elliott Electric Co., 2694 E 79th
 *†Variety Iron & Steel Works Co. (Rolling Mill Machinery, Castings, etc.)
 *Waldeck, Anthony (Wire Dies, etc.), 7607 B'way
 *†Walworth Run Foundry Co. (Warm Air Reglsters, Hdw. Specialties & Gray Iron Castings), 2488 W 27th
 *Ward Machine Co. (Marine Work a Specialty), 518 Prospect av, N W
 *Warner & Swasey Co. (Machine Tools, etc.)
 *Weber, L. A. & Co. (Brass Goods, etc.), 517 Huron rd
 *†WELLMAN-SEAEVER-MORGAN CO. (Cranes, Rolling Mill & Coal Handling Machinery) (See adv. index, end of book)
 *Werner, Emil (Machinist, Molds, Dies & Tools), 1232 E 3d
 *Werner, Emil (Machinist), 49 Wood
 *†White Co. (Sewing Machines, Automobiles, etc.), 3238 Lorain av
 *Williams-Abbott Electric Co., 1800 E Madison av
 *†Winton Motor Carriage Co. (Automobile Builders)
 *†Woodworth-Engert Co. (Car Wheels, etc.), 4926 Hamilton av
 *Worden Tool Co. (Machine Knives), 1740 Columbus rd
COLLINWOOD—*Browning Engineering Co. (Cranes, Hoists, etc.)
 *Kuhlman, G. C. Car Co. (Electric Car Builders)
COLUMBIANA—*†Columbiana Pump Co. (Steam Pumps, etc.)
 *†Enterprise Mfg. Co. (Steam Engines & Saw Mill Machinery, etc.)
 *Grove & Detwiler (Gas Engines)
 *Rapp, Harvey
COLUMBUS—*American Mfg. Co. (Mower Attachments, etc.)
 *American Water Motor Co. (Water Motors)
 *Baldwin Forging & Tool Co. (Post Hole Diggers, Wrenches, etc.)
 *Berry Bros. (Bolt Nuts, etc.)
 *Blakeslee Concrete Block & Machine Co. (Concrete Block Machines)
 *Bonney-Floyd Co. (Steel Castings)
 *§Brown, Jno. W. Mfg. Co. (Lamps & Brass Fdrs.)
 Bryant Steel Wheel & Rim Co. (Steel Wheels & Rims, etc., Automobile)
 *Buckeye Pump & Mfg. Co. (Pumps, etc.)
 *Buckeye Saw Mfg. Co. (Saws, etc.)
 *†Buckeye Steel Castings Co. (Castings, Car Couplers, etc.)
 *Budd & Ranney Mfg. Co.
 Capital Lock Nut & Washer Co. (Bolts, Nuts, etc.)
 *†Case Mfg. Co. (Cranes & Flour Mill Mach'n'y, etc.), Curtis av, nr Lexington av
 *†Chase Foundry & Mfg. Co. (Industrial Cars, Trucks, etc.)
 *§Columbus Brass Co. (Brass Fdrs. & Finishers, Plumbing Goods)
 *§Columbus Carriage Hardware Co. (Brass Fdrs. & Carriage Hardware)
 *Columbus Die, Tool & Machine Co. (Dies, Tools, etc.)
 *†Columbus Elevator & Machine Co.
 *†Columbus Foundry & Machine Co. (Concrete Mixers, etc.)
 *Columbus Heating & Ventilating Co. (Hot Air Furnaces, etc.)
 †Columbus Iron Fittings Co.
 *†Columbus Machine Co. (Gas & Gasoline Engines, etc.)
 *Columbus Pneumatic Tool Co. (Pneumatic Tools)
 *Columbus Screw & Machine Co.
 †Columbus Skein & Iron Co.
 *†Columbus Steam Boiler & Heater Co. (Boilers, Heaters, etc.)
 *Columbus Steam Pump Works (Steam Pumps), 85 W Broad
 *Columbus Structural Steel Co. (Steel Structures, etc.)
 †Columbus Wire & Iron Works
 *Eaton Machine Works (Repair Work of all Kinds), 98 W Broad
 †Emrich, C. (Stoves, etc.)
 *§Federal Mfg. Co. (Gas Fixtures, etc.)
 *Francisco Adjustable Concrete Block Machine Co.
 *Hamilton, Geo. W.
 *Hamilton Mfg. Co. (Coal Loaders, etc.)
 †Hance Casting Co. (Castings, etc.)

*Hann Mfg. Co. (Lawn Mower Attachments)
 *Harrington, John
 *Hayden Automatic Block Machine Co.
 *Hayden, N. L. Mfg. Co. (Valves, Packing, etc.)
 *†Hayden, P. Saddlery Hardware Co. (Iron Fdrs., Saddlery Hardware & Castings, etc.)
 *Hearn, J. C.
 *†Hertenstein, M. Co. (Stoves), 1409 S High
 *Hoover, J. B. (Machinists & Surgical Instruments)
 *Jaeger Machine Co. (Concrete Mixers)
 *†JEFFREY MFG. CO. (Elevating & Conveying, Grain Elevator Appliances, Mining, Phosphate Mill, Power Transmission, etc.), E 1st av & Big Four R. R. (See adv. index, end of book)
 *†KILBOURNE & JACOBS MFG. Co. (Plows, Trucks, Carts & Road Scrapers, etc.)
 *†Kinnear Mfg. Co. (Rolling Steel Shutters, etc.)
 *Krumm, Martin (Iron Railings, etc.)
 †Lattimer-Williams Mfg. Co. (Stoves, etc.)
 *Leukart, Jacob
 *§Lilley, M. C. & Co. (Regalia & Lodge Supplies)
 †McDonald Bros. (Small Grey Iron Castings)
 *Midgley Mfg. Co. (Steel Tubular Wheels, etc.)
 *Moeller, Henry
 *Monarch Mfg. Co. (Motor Pumps, etc.)
 *Morris, C. E. Co. (Elevators & Bldrs. Iron Work, etc.), 3d & Naghten
 †O'Brien Bros., 276 W Main
 *Ohio Elevator & Machine Co.
 †Ohio Malleable Iron Co.
 *§Ohio Pump & Brass Co. (Air Pumps, Brass, Bronze & Aluminum Castings)
 *Ohio Tool Co. (Tools, Planes, etc.), 63 N Scioto
 Ohlen, Jas. & Sons Saw Mfg. Co. (Saws, etc.), West End, Buttles av
 *†Peerless Stove & Range Co. (Stoves & Ranges), 310 W Dublin av
 †Poulton, Edwin (Grey Iron Castings)
 †Ralston Car Co. (Car Builders)
 †Quad Stove Mfg. Co. (Stoves, etc.)
 *Reeves Bros. (Gas Engines, etc.)
 *Roberts, O. G. & Co., 152 N 9th
 *Robinson-Tilton Mach'y. Co.
 *Rockey, D. R. & Son (Pumps)
 *†§Safety Meter Lock Co. (Hardware Specialties & Light Grey Iron Castings, etc.)
 *†Safety Meter Lock Co. (Meter Seals, Metal Patterns, etc.)
 †Schreyer, G. (Furnace Mfrs.)
 *Seagrave Co. (Fire Dept. Apparatus)
 *Simpson, A. High, nr H V R R
 *Smith & Williams (Machinists), 149 W State
 *Standard Candy Machine Co. (Confectioners' Machinery)
 *Standish Machine & Supply Co.
 *Sun Mfg. Co. (Cash Registers & Coffee Mills, etc.)
 *Unedme Tool Co. (Tools)
 *United Cement Machinery Mfg. Co. (Cement Mach'y, etc.)
 †United States Cast Iron Pipe & Foundry Co. (Cast Iron Pipe), ft of W Goodale (See New York)
 *United States Hoe & Tool Co. (Tools, Variety Iron & Steel Works Co. Hose, etc.)
 *Wells, J. D.
 *Weinman Machine Works (Pumps & Air Compressors)
 †Winget Concrete Machine Co. (Building Block Mach'y.)
COLUMBUS GROVE—*Benroth Bros.
CONNEAUT—*Wehb, W. H. (Machinist)
CORNING—†Richardson, Jno. (Iron Fdry., etc.)
COSHOCKTON—*Coshockton Machine Mfg. Co. (Machinery)
 *†Hay, Houston Axle Co. (Carriage Axles, etc.)
 *†Keagy & Lear Machine Co. (Carriage Axles & Special Machinery)
 †King, W. H.
CRESTLINE—*†Burch Plow Works Co. (Plows, etc.)
 *†Crestline Mfg. Co. (Seamless Brass Pump Cylinders, etc.)
 *†Schill Bros. Co. (Steel Ranges, Furnaces, Castings, etc.)
CUYAHOGA FALLS—Falls Hollow Staybolt Co. (Staybolts, etc.)
 *†Falls Rivet & Machine Co. (Power Transmitting Mach'y, etc.)
 *†Turner, Vaughn & Taylor Co. (Brick, Cement, Chain, Rubber, Wire Mach'y, etc.)
 §United Bronze Castings Co.
DAYTON—Advance Foundry Co.
 *Amer. Fred C. (Machinist)
 *American Bolt & Screw Case Co.

American Forge & Fence Co. (Bldrs. Iron Work, etc.)
 *§Barney & Smith Car Co. (Cars & Car Wheels, etc.)
 *Bates, D. L. & Bro. Co. (Electric Fans & Motors, etc.)
 *Boyer-Radford Gordon Tank & Pump Co. (Ratchet Screw Jacks, Traction Engines, etc.)
 *†Brownell Co. (Engines, Saw Mills, etc.)
 *†§Buckeye Iron & Brass Works (Brass & Iron Fdrs. & Oil Mill Mach'y)
 *†Callahan, W. P. & Co. (Iron Fdrs. & Engines, Ice Machines & Oil Mill Mach'y, etc.)
 *Computing Scale Co. (Computing Scales)
 *Cunningham, Jno. (Elevators, etc.)
 *†Davis Sewing Machine Co. (Sewing Machines & Bicycles)
 *Dayton Electrical Mfg. Co. (Dynamamos, etc.)
 *Dayton Fan & Motor Co. (Fans, Water Motors, etc.)
 *†Dayton Globe Iron Works Co. (Turbine Water Wheels & Paper & Pulp Mill Mach'y., Power Transmitting Mach'y., etc.)
 †Dayton Hydraulic Machinery Co. (Centrifugal Pumps)
 *Dayton Machine & Tool Works (Machine Tools)
 *Dayton Machine Works
 *†Dayton Malleable Iron Co.
 §Dayton Mfg. Co. (Brass Fdrs., Railroad Supplies, etc.)
 *Dayton Pattern Works (Models, etc.)
 *Dayton Pipe Coupling Co. (Pipe Couplings, etc.)
 *Dayton Pitless Scale Co. (Scales)
 *†DAYTON PNEUMATIC TOOL CO. (Pneumatic Tools) (See adv. index, end of book)
 *Dayton Specialty Machine Co. (Machinists)
 †Dayton Steel Foundry Co.
 †Dayton Supply Co. (Spraying Pumps, Hose Nozzles, etc.)
 §Dennick, Wm. & Co. (Brass Fdrs.)
 §Donovan & Kneisly
 *Edgemont Machine Co. (Friction Clutches, etc.)
 *Egry Autographic Register Co. (etc.)
 *Euchenhofer, E. E. (Machinist)
 †Eureka Foundry Co. (Iron Fdrs., Tob. Planters, Fence Ratchets, etc.)
 *Felker & Mieth Mfg. Co. (Conductors' Punches)
 *†Fletcher Mfg. Co. (Electrical Supplies)
 *Foglesong, Wash. (Horsecollar Mach'y)
 †Gem City Stove Co. (Stoves, etc.)
 *Grimes, Chas. D. Machine Works, (Special Machinery)
 §Hoban Brass Foundry Co.
 *†Joyce-Cridland Co. (Hydraulic Lever & Screw Jacks, etc.)
 *†Kinsey Mfg. Co. (Stoves & Automobile Fittings)
 *†Kramer Bros.' Foundry Co. (Iron Fdrs., Labeling Machines, etc.)
 †Kuhns Bros. (Cast Iron Fittings, etc.)
 *Larkin Mfg. Co. (Fire Dept. Equipments)
 *Legler, Grimes & Eilerman (Machine Parts, Finished & White Metal Castings)
 *Light, George (Tap Machines, etc.)
 *Meeker Mfg. Co. (Ball Bearing Axles)
 §Miami Brass Foundry (Brass Fdrs.)
 *Miami Valley Machine Tool Co. (Engine Lathes, etc.)
 *†§National Cash Register Co. (Cash Registers, etc.)
 *National Hot Air Furnace Co. (Machinists, Furnaces, etc.)
 *National Oil Pump & Tank Co. (Oil Pumps & Tanks)
 *New Era Gas Engine Co.
 *Nutting, F. J. (Mach'y., Tools, etc.)
 *†Ohio Foundry Co. (Natural Gas Appliances & Grey Iron Castings)
 *†Ohio Rake Co. (Agl. Impls., Sulky Rakes, etc.)
 *Ohmer Fare Register Co.
 *Parrott Mfg. Co. (Plows, etc.)
 *Pasteur-Chamberland Filter Co. (Filters, etc.)
 *Perrine & Robison (Engines)
 *†Platt Iron Works Co. (Turbines & Mach'y, etc.)
 *Plocher, Andrew (Forgings, etc.)
 *Poorman, O. O. Co. (Sheet Metal Working Mach'y)
 *Recording & Computing Machine Co. (See Cincinnati, O.)
 *†Raymond, C. W. Co. (Clay Working Mach'y)
 *Roberts, Geo. J. Co. (Steam Pumps, etc.)
 †Seybold Foundry Co.
 *†Seybold Machine Co. (Bookbinding Machinery)
 *Simonds, A. A. & Son Co. (Planing Knives, etc.)
 †Standard Foundry Co.

- *Steiner, M. & Co.
 *Sterling Elec. Motor Co. (Dynamos & Motor Mfrs.)
 *†Stoddard Mfg. Co. (Grain Drills, Cultivators, Rakes, etc.)
 *Tiffany, A. R.
 *Trimbach, Geo. (Tools, etc.)
 *Tschudi & McBarron
 *Vaile & Kimes (Water Motors)
 *Volta & Muhlenberg (Special Machinery)
 *Weiman, C. J. & Co. (Machinists)
 §White Bronze Metal Works
 *Wiedeke, Gustav & Co. (Boilermakers' Tools, etc.)
 *Wilson, David
 DEFIANCE—*†Clipper Plow Co. (Plows, Cultivators, Grain Drills, etc.)
 *†DEFIANCE MACHINE WORKS (Wood Working Machinery, etc.). (See adv. index, end of book)
 *Holmes, G. H. (Machinist)
 *Waverly Arms Co. (Shot Guns)
 DELAWARE—*Cook Motor Co. (Motors, etc.)
 *Dennison, L. B. (Structural Steel Work)
 DELPHOS—*Almy, Geo. F. (Bending Machines)
 DELTA—*Buckeye Gas Engine Co. (Gas Engines, etc.)
 *Cottingham, Louis
 DENNISON—*†Dennison Foundry & Engineering Co.
 DESHLER—*Diamond Cement Machine Co.
 *†Suber, A. A. (Cement Mach'y)
 DOYLESTOWN—§Buckeye Aluminum Co.
 *†Sieberling & Miller Co. (Mowers, Reapers, etc.)
 DRESDEN—*Dresden Machine Co.
 EAST LIVERPOOL—*Cain Bros. & Co. (Machinists)
 *Dean, E. G. (Machinist)
 *†East Liverpool Foundry, Machine & Supply Co.
 *†Patterson Fdy. & Machine Co. (Clay Working Machy., etc.)
 EAST PALESTINE—*Roberts Machine Co.
 EATON—*Alexander & Christmas
 *Ohio Iron & Brass Bed Co.
 EDISON—*†Marion Fdry. & Mch. Works
 ELYRIA—*Beal, Wm. L.
 *Brown Clutch Co. (Pulley Clutches)
 *Dean Electric Co. (Telephone & Electrical Supplies)
 *§Elyria Machine Parts Co. (Automobile Parts & Brass Castings)
 †Duplex Mfg. & Foundry Co. (Catch Basins, etc.)
 †Elyria Foundry Co.
 *Elyria Gas Engine Co. (Gas & Gasoline Engines, etc.)
 *Elyria Machine Parts Co.
 *†Fox Furnace Co. (Stoves, Furnaces, etc.)
 §†Garford Co., Inc. (Automobile Parts, etc.)
 *Shuart-Fuller Mfg. Co. (Wood Fibre Machinery)
 *Toppliff & Ely Co. (Carriage Hdwe., etc.)
 *†Weller Engineering Co.
 *Western Automatic Machine Screw Co. (Tapping Machines, etc.)
 *Worthington Mfg. Co. (Tricycles, Golf Goods, etc.)
 FAYETTE—*Boyce & Farnsworth Co. (Foot Vises, etc.)
 FINDLAY—*†Adams Bros. Co. (Machinery & Oil & Gas Well Supplies)
 *Buckeye Traction Ditcher Co. (Traction Ditchers)
 *†Findlay Axe & Tool Co.
 *†§Findlay Foundry & Machine Co. (Pumps & Brass & Iron Castings, etc.)
 *Hoppenburg, Gustav
 *Marvin, D. E.
 *†Marvin Machine Works (Ditch Making Mach'y, etc.)
 *Went, C. H.
 FOSTORIA—Atlas Mfg. Co. (Safes, Stoves, etc.)
 *Copley Machine Co.
 *Western Railway Signal Co. (Railway Signals, etc.)
 FREDERICKSBURG—*Stophiet, M. L. (Machinist)
 FREDERICKTOWN—*†Foote, J. B. Foundry Co. (Bells, Vises & Hardware Specialties)
 FREEPORT—*†National Light & Heating Co. (Stoves & Gas Generators)
 FREMONT—*Christy Knife Co. (Knives, etc.)
 *Clausse Shear Co. (Shears, etc.)
 *Crescent Mfg. Co. (Cutlery, etc.)
 *French & Holderman (Engines, etc.)
 *Herbrand Co. (Carriage Hardware & Forgings, etc.)
 *International Cutlery Co.
 *Jackson Knife & Shear Co.
 *†Lehr Agricultural Co. (Cultivators, Harrows, etc.)
 *†Lincoln Stove & Range Co. (Stoves, Ranges, etc.)
 GALENA—*Hughes & Smythe (Corn Planters, etc.)
 GALION—*†Freese, E. M. & Co. (Brick & Drain Tile, Machinery, etc.)
 †Homer, J. R. (Iron Fdry.)
 *Prame Mfg. Co. (Agrl. Implements)
 *Sponhauer, H. C.
 GALLIPOLIS—*†Gallipolis Foundry & Machine Co.
 *†Killing Stove Co. (Stoves)
 *†Thompson & Francis Stove Co. (Stoves)
 §Treasure Stove Co. (Stoves)
 GARRETTSTOWN—†Udall, W. L.
 GENEVA—*Blanchard, A. L.
 §*Champion Safety Lock Co. (Hardware Specialties, Brass & Comp. Castings)
 *†Geneva Metal Wheel Co.
 *Potter Mfg. Co. (Hdwe. Specialties)
 *Throop, B. M. (Machinist)
 GIBSONBURG—*Brown Pulling Machine Co. (Oil Well Pulling Machines)
 *Hughes, A. B. (Oil Well Tools, etc.)
 GREENVILLE—*†Lucas, C. O. & Co. (Iron Fdrs. & Machinists)
 *†Ross Supply Co. (Pumps, Windmills, Grey Iron Castings, etc.)
 *†Royal Stove & Range Co.
 *Wogman Mfg. Co. (Gas Engines)
 HAMILTON—*†American Foundry & Machine Co.
 *American Frog & Switch Co. (Frogs, Switches, Switch Stands, Crossings, etc.)
 *†Bentel & Margedant Co. (Wood Working Mach'y, etc.)
 *Betz Mfg. Co. (Laundry Machy.)
 *†Black-Clawson Co. (Paper & Pulp Mill, Special Machy., etc.)
 *Butler Foundry Co.
 †Central Foundry Co. (Iron Fdrs., etc.)
 *†Deuscher, H. P. Co. (Agrl. Impls., etc.)
 *Empire Machine Co. (Traction Engines)
 *Estate Stove Co. (Stoves, Ranges, etc.)
 *Hamilton Autographic Register Co. (Registers, etc.)
 *§Hamilton Copper & Brass Works (Brewing & Distilling Apparatus, etc.)
 *†Hamilton Foundry & Machine Co. (Iron Fdrs. & Machinists)
 *†Hamilton Machine Tool Co. (Machine Tools)
 *†Herring-Hall-Marvin Safe Co. (Bank Vaults & Safes, etc.)
 *Hooven, Owens, Rentschler Co. (Corliss Engines, etc.)
 *Krauth & Benninghofen (Machinists)
 *†Long & Allstatter Co. (Agrl. Impls. & Power Punching & Shearing Machy.)
 *Mosler Safe Co. (Bank Vaults & Safes, etc.)
 §National Castor Co.
 *†Niles-Bement-Pond Co. (Machine Tools, etc.) (See New York City)
 †Peerless Foundry Co.
 †Phoenix Caster Co. (Furniture Casters)
 *†Sanitary Mfg. Co. (Plumbing Goods)
 †Sohn & Rentschler (Iron Fdrs., etc.)
 *†Victor Foundry & Machine Co.
 *†Vulcan Foundry Co. (Light & Medium Gray Iron Castings)
 *West Side Motor Co. (Motors, etc.)
 HARRISON—*Campbell Corn Drill Co. (Agrl. Impls., Corn Drills, etc.)
 HILLSBORO—*†Bell, C. S. Co. (Cane & Feed Mills, Stoves, Farm Bells, etc.)
 *†Gross Foundry & Machine Co.
 IRONTON—†Belfont Iron Works Co.
 *†Foster Stove Co. (Stoves)
 *Glendenning, Barker & Thomas Co.
 *†Ironton Disc Plow Co. (Plows, etc.)
 *†Ironton Engine Co. (Corliss & Plain Slide Valve Engines, etc.)
 *†Olive Foundry & Machine Co.
 JACKSON—†Crown Pipe & Foundry Co. (Agrl. Impls., etc.)
 JACKSON CENTER—*Anderson & Van Et-ton Machine Co. (Folding Machines)
 JOHNSTOWN—*Russler, H. B. (Pumps)
 *Jackson Mfg. Co. (Garden Plows, etc.)
 KENT—*Kent Mfg. Co. (Railway Specialties)
 *§Miller, J. B. (Locks)
 *§Peterson Mfg. Co.
 KENTON—*†CHAMPION IRON CO. (Builders' Iron Work & Castings) (See adv. index, end of book)
 *Dow, Jas. M. (Machinist)
 *Kenton Gas Engine Co. (Gas Engines, etc.)
 *†Kenton Hardware Mfg. Co. (Locks, Iron Toys, etc.)
 *Ohio Machine Tool Co. (Machine Tools, etc.)
 KILBOURNE—*Scott Bros.
 LAKEWOOD—*Lakewood Mfg. & Supply Co. (Plumbers' Specialties, etc.)
 LANCASTER—*†Alten, Henry F.
 *†Eagle Machine Co. (Agrl. Impls.)
 *†Hocking Valley Mfg. Co. (Agrl. Impls., etc.)
 LEETONIA—*Buckeye Tool Co. (Mining Tools, etc.)
 *†Crescent Machine Co. (Wood Working Mach'y)
 †Leetonia Boiler Co. (Blast Furnace Work, etc.)
 LEIPSIC—*†American Fdry. Co. (Gas & Oil Engines & Grey Iron Castings)
 LEXINGTON—*Smith Gas Power Co. (Suction Gas Producers)
 LIMA—*Angeli, C. W. (Electrical Machy)
 *†East Iron & Machine Co. (Gas Engines)
 *Golley & Finley Iron Works (Engines, etc.)
 †Independence Iron Works Co.
 *Lima Gas Engine & Mfg. Co. (Gas Engines, etc.)
 *†Lima Locomotive & Machine Co. (Locomotives, etc.)
 *Rhoda Bros. (Wagon & Carriage Hdw.)
 *Sinclair & Morrison Co. (Drilling Tools, etc.)
 *Vicary, Geo. S. (Machinist)
 LISBON—*Wright, Hughes & Sons (Machinists)
 LOGAN—*†Logan Foundry & Machine Works (Plows, etc.)
 LORAIN—*†American Shipbuilding Co. (See Cleveland, O.)
 *Brown-Cochran Co. (Gas & Gasoline Engines & Ice Machines)
 *Brunk Machine & Forging Co.
 †Dunstan Mfg. Co.
 *Hoffman Heater Co. (Heaters, etc.)
 *Lorain Machine & Forge Co.
 *National Stove Co. (Am. Stove Co.), (Oil Stoves & Heaters)
 *Thew Automatic Shovel Co. (Steam Shovels, etc.)
 *§Union Brass & Iron Works (Iron & Brass Castings)
 LOUDONVILLE—*Sprang, Wm.
 LOUISVILLE—*Buckeye Jack Mfg. Co. (Hoisting Jacks)
 *Louisville Machine Works
 *†Wagner Steam Pump Co. (Steam Pumps, etc.)
 McCURE—*Adams, S. S. (Machinist)
 MADISON—*†Genung, C. W. (Agrl. Impls.)
 MALTA—*†Brown-Manly Plow Co. (Agrl. Implements, etc.)
 MALVERN—*†Stoitz & Schrieber (Iron Fdrs. & Machinists)
 MANSFIELD—*†Aultman & Taylor Machinery Co. (Agrl. Impls., Traction Engines, etc.)
 *†Babcock & Wilcox Co. (Water Tube Boilers & Castings) (See New York City)
 *†Barnes Mfg. Co. (Pumps, etc.)
 *Barr Cash & Package Carrier Co. (Cash & Package Carriers)
 *†Baxter Stove Co. (Stoves)
 *Berry, J. H.
 *†Eclipse Stove Co. (Stoves)
 *†Ferryak Machine Co. (Tool & Die Makers)
 *†§Humphries Mfg. Co. (Enameled Iron Bath Tubs, Pumps, Cocks & Bibbs, etc.)
 *Ideal Electric Mfg. Co. (Electrical Machinery)
 *Lean, Roderick Mfg. Co. (Harrows, Land Rollers, etc.)
 *§Mansfield Tempered Copper Co. (Brass & Bronze Castings, Commutator Bars, etc.)
 *North American Watch Co.
 *New Method Co. (Gas, Stoves, Ranges & Heaters)
 *†§Ohio Brass Co. (Electric Railway & Steam Specialties)
 *Phoenix Electric Co. (Dynamos & Motors, Safety Cylinder Valve Co., etc.)
 MARIA STEIN—*†New Idea Spreader Co. (Agrl. Impls., etc.)
 MARIETTA—*Cline Bros. Machine Works
 *†Conductor Fitting Co.
 *Leidecker Tool Co. (Well Drilling Machinery, etc.)
 *†Marietta Mfg. Co. (Stoves)
 *†Nye, A. T. & Son Co. (Stoves)
 *†§Pattin Bros. Co. (Steam Engines & Grey Iron & Brass Castings)
 *Salzman, G. O.
 *Star Roofing & Machine Co.
 MARION—*†American Malleable Casting Co.
 *Berry Electrical Mfg. Co. (Lightning Arresters)
 *†Fairbanks Steam Shovel Co. (Steam Dredges, Traction Engines, Ditching Machines, etc.)
 *†Huber Mfg. Co. (Agrl. Impls., Engines, etc.)
 *†Implement Mfg. Co. (Agrl. Impls., etc.)
 *†Marion Mfg. Co. (Agrl. Impls.)
 *†Marion Steam Shovel Co. (Dredging, Excavating, etc.)
 *Titus Machine Works (cavating, etc.)
 *White Engineering Co. (Gas Engines, etc.)

MARKLE—†Conn, Geo. L. Foundry Co.
 MARTINS FERRY—†Mann, Wm.
 *McDermott Tool Works
 *†Spence-Baggs Stove Co. (Stoves)
 *Stanton Heater Co. (Furnaces, etc.)
 MARYSVILLE—*Armstrong, G. N.
 *†Turner, Richard
 MASSILLON—*†Christman Co. (Well Drilling Machinery)
 *Everhard Co. (Sand Grindstones, etc.)
 *†Harrison, W. R. & Co. (Fodder Cutters, etc.)
 *†Heiman, A. & Bro. (Grey Iron Castings, Mine Cars, Wheels & Tools)
 *†Hess, Snyder Co. (Pumps, Stoves, Furnaces, etc.)
 *Massillon Engine & Thresher Co. (Engines, Thresher, etc.)
 †Massillon Foundry Co. (Iron Fdrys.)
 *†Massillon Iron & Steel Co. (Cast Iron Pipe & Heavy Castings, etc.)
 *†Russell Engine Co. (Engines & Machinery Castings)
 *†Russell & Co. (Engines, Threshers & Saw Mills)
 MECHANICSBURG—*Packham-Crimper Co. (Sheet Metal Workers' Machinery & Tools)
 MEDINA—*Kraver, S. K. & Son (Tools)
 †Medina Foundry Co. (Castings, etc.)
 MIAMISBURG—*§Allen, D. H. & Co. (Specialties)
 *†Hoover & Gamble Co. (Twine & Cordage Machinery & Agl. Impls.)
 *Kauffman, J. A. (Trip Hammers)
 *Shuey, Frank (Machinists)
 MIDDLEFIELD—*Middlefield Mfg. Co. (Hot Air Engines)
 MIDDLEPORT—*†Ohio Machine Co. (Brick Machines, Mill & Furnace Castings, etc.)
 MIDDLETOWN—*Barklelew Electric Mfg. Co. (Electrical Specialties)
 *†Fetzer Mfg. Co. (Agrl. Impls., Grain Drills, Disc Harrows, etc.)
 *Miami Cycle & Mfg. Co. (Cycles, etc.)
 *Middletown Machine Co. (Gas Engines)
 *Shartle Bros. Machine Co. (Paper Mill Machinery)
 *Shartle & Bevis (Paper Mill Mach'y)
 MILAN—*Curtis Machine Co. (Thresher Parts)
 MILLERSBURG—*†Millersburg Foundry & Machine Works
 MINERAL RIDGE—*†Mineral Ridge Mfg. Co. (Steam Hoists, etc.)
 MINERVA—*Jobes, Emmor
 MINSTER—*†Minster Machine Co. (Power Transmitting, etc.)
 MONTPELIER—*†Montpelier Foundry & Furnace Co.
 MORRAL—*Morral Bros. (Canning Mach'y)
 MOUNT GILEAD—*†Hydraulic Press Mfg. Co. (Presses, Sugar Mills, etc.)
 MOUNT STERLING—*Carter Wire Fence Mach'y Co. (Fence Mach'y)
 MOUNT VERNON—*†Black, E. L. Furnace Co.
 *†Challingworth Foundry & Machine Co.
 *†Cooper, C. & G. Co. (Corliss Engines & Heavy Castings)
 *Mount Vernon Bridge Co. (Structural Steel Work)
 NAPOLEON—*†Heller-Ailer Co. (Wind Mills, etc.)
 NELSONVILLE—*†Nelsonville Foundry & Machine Co. (Mining, Elevating & Conveying Mach'y)
 NEWARK—*†Central City Stove Works (Stoves, etc.)
 *†Jewett Car Co. (Car Builders, etc.)
 *McNamar Machine Works
 *†Newark Machine Co. (Agl. Impls., etc.)
 *†Scheidler Machine Works Co. (Engines, etc.)
 *†Simpson Heater Co. (Hot Air Furnace, etc.)
 *†Thomas, Jas. E. & Co. (Ingot Molds, Castings, etc.)
 *†Wehrle Co. (Stove Mfrs.)
 NEW BREMEN—*†Lanfersieck & Grothaus Co. (Agrl. Impls., Plows, etc.)
 NEW COMERSTOWN—*†Clow, Jas. B. & Sons. (See Chicago, Ill.)
 *Curby, A. L. & Son
 *Rex File & Saw Co. (Files, Saws, etc.)
 NEW LEXINGTON—*†Star Mfg. Co. (Agrl. Impls., Mine Cars & Wheels & Feed Grinders)
 NEW LONDON—*†Arnold-Creager Co. (Brick & Clay Mach'y)
 NEW MADISON—*Hagerman & Son (Car Movers, etc.)
 NEW PHILADELPHIA—*New Phila. Machine & Repair Co.
 *†Sharp Foundry & Machine Co.
 *†Spicer Mfg. Co. (Agrl. Impls., etc.)
 NEWTON FALLS—*†Grinnell & Borland (Stoves)

NILES—*†Globe Foundry & Machine Works
 *Harris Automatic Press Co. (Printing Presses)
 Niles Boiler Co. (Iron Fdrys., Machinists & Boilermakers)
 *Niles Car & Mfg. Co. (Car Builders)
 *†Niles Mine & Mill Supply Co.
 *Standard Electrical Mfg. Co.
 NORTH AMHERST—†Rice, J. J. (Iron Fdry.)
 NORTH BALTIMORE—*†Hardy Machine Co. (Oil Well Mach'y, etc.)
 NORTH BLOOMFIELD—*Chapman, W. A.
 NORTH FAIRFIELD—*†Harvey, S. L. (Plows, etc.)
 NORWALK—*Kavanaugh, Wm. Co. (Gas & Gasoline Engines, etc.)
 *Miller Anchor Co. (Anchors & Chains, etc.)
 *†§Norwalk Iron & Brass Foundry Co. (Iron & Brass Castings)
 †Triplex Heating Co. (Hot Water Heaters)
 NORWOOD—(See Cincinnati, O.)
 OAKHARBOR—*Bease, J. H. & Son.
 OBERLIN—*Shuart Grader Co. (Road Graders, etc.)
 OLMSTED FALLS—*†Allright Mfg. Co. (Vapor Stoves, etc.)
 *†Wallace Mfg. Co. (Vapor Stoves, etc.)
 ORRVILLE—*Champion Thresher Co. (Agrl. Impls.)
 *Cyclone Drill Co. (Well Drilling Mach'y, Engines, Drills, etc.)
 OTTAWA—*Ottawa Motor Co. (Motors, etc.)
 *Ottawa Motor Co. (Motors, etc.)
 PAINESVILLE—*Blackmore, Jno. (Machinist)
 *Coe Mfg. Co. (Veneer Machinery)
 *Commercial Electric Co.
 *Globe Mfg. Co. (Hardware Specialties, etc.)
 *†Horton Mfg. Co. (Brick Mach'y, etc.)
 *Meade, Geo. M.
 PIQUA—*Blaine Harrow Mfg. Co. (Harrow, etc.)
 *Bowdle Bros.
 *Champion Paper Cutter Co.
 *†Favorite Stove & Range Co. (Stoves)
 *French Oil Mill Machinery Co. (Oil Mill Machinery, etc.)
 *†Piqua Foundry & Machine Co.
 †Smith, W. J. (Iron Fdry.)
 PLYMOUTH—*Brown & Dick.
 *§Fate, J. D. Co. (Brick Machinery)
 *†Plymouth Mfr. Co. (Cream Separators, etc.)
 *†Root Bros. Co. (Lawn Mowers, Machines, etc.)
 POMEROY—*†Pomeroy Machine Co. (Machinists & Fdrys.)
 PORTAGE—*Laramora, O. O.
 PORTSMOUTH—*Brunner, Jacob (Machinists)
 *Mitchell Mfg. Co. (Vending Machines.)
 *†Ohio Stove Co. (Stoves)
 *†Portsmouth Stove & Range Co. (Stoves, etc.)
 *Simpson Bros (Brick Makers' Mach'y)
 PRAIRIE DEPOT—*Johnson, John W.
 QUAKER CITY—*Wright Bros. Co. (Machinists)
 RAVENNA—*†Byers, John F. Machine Co. (Hoisting Machinery, etc.)
 *†Williams, A. C. Co. (Sad Irons, etc.)
 RIPLEY—*†Danbery, A. M.
 SABINA—*Clinton Mfg. Co. (Pumps)
 *Ideal Pump Co. (Pumps, etc.)
 ST. MARYS—*Buehler Machine Co. (Machinists)
 *†Heisler Co. (Air Compressors & Pumping Machinery)
 *†St. Marys Machine Co. (Machinists & Fdrys.)
 SALEM—*†BUCKEYE ENGINE CO. (Steam Engines, etc.) (See adv. index, end of book)
 *†Clark, W. J. Co.
 *†Deming Co. (Steam Pumps & Pumping Mach'y, etc.)
 *†Pittsburg Foundry & Machine Co. (See Pittsburg, Pa.)
 *†§Mullins, W. H. Co. (Architectural Bronze Work, etc.)
 *Salem Tool Co.
 *†Silver Mfg. Co. (Hub Boring Mach'y, Blacksmiths' Drills & Agl. Impls., etc.)
 *†Victor Stove Co. (Stoves)
 *†Woodruff, J. & Sons (Stoves, etc.)
 SANDUSKY—†Bay View Foundry Co.
 †Dunbar Mfg. Co. (Castings, etc.)
 *†§Klotz Machine Co. (Engines, Woodworking & Wine & Cider Making Mach'y & Iron & Brass Fdrys.)
 *Ohio Motor Co. (Gas Engines)
 *OHIO STRUCTURAL IRON CO. (Architectural & Ornamental Iron & Steel) (See adv. index, end of book)
 *†Sandusky Foundry & Machine Co. (Iron Fdrys. & Machinists)
 *Sandusky Tool Co.

SCIO—*Lidderdale, A. E.
 SEBRING—*†Buckeye Forging & Specialty Co.
 SEVILLE—*†Overhoit, I. M. (Iron Fdr. & Machinist)
 SHELBY—*Bightman Mfg. Co. (Shafting Machinery & Polished Shafting)
 *Chicago Handle Co. (Bicycle Handle Bars)
 †Shelby Foundry Co.
 *§Shelby Spring Hinge Co. (Steel, Brass & Bronze Hardware)
 SHREVE—†Foltz, D. E.
 SIDNEY—*American Steel Scraper Co. (Road Scrapers)
 *Eclipse Folding Machine Co. (Folding Machines)
 *Sidney Steel Scraper Co. (Road Scrapers, etc.)
 *Sidney Tool Co. (Saws, etc.)
 *Stusser & McLean Scraper Co. (Road Scrapers)
 *†Smith, Philip Co. (Carriage Machinery)
 SPENCERVILLE—*Foster, Tobias
 SPRINGFIELD—*†American Grain Meter Co. (Automatic Grain Scales, etc.)
 *†American Radiator Co. (See Chicago, Ill.)
 *†§American Seeding Machine Co. (Agrl. Impls.)
 *Bauroth, W. F. & Bro. (Gas & Gasoline Engines)
 *†§Bayley, Wm. Co. (Builders, Iron Work, Special Machinery, etc.)
 *†Bettendorf Metal Wheel Co. (See Davenport, Iowa)
 *Casey, D. L. Machine Co. (Engines, Boilers, etc.)
 *Colthar, Wm. U. (Special Machinery)
 *†Fairbanks Co. (Machine Tools, Piano Plates, Castings, etc.)
 *†Foos Gas Engine Co. (Gas Engines)
 *Foos Mfg. Co. (Agrl. Implements, Flour Mill Machinery, etc.)
 *Gearless Gas & Gasoline Engine Co. (Gas & Gasoline Engine)
 *Greene Mfg. Co.
 *†Grey Iron Casting Co. (Grey Iron Castings)
 *Grove Mfg. Co. (Drop Lights, etc.)
 †Hennessy Foundry Co. (Grey Iron Castings)
 *†Hoppes Mfg. Co. (Feed Water Heaters, etc.)
 *Igou, D. T.
 *Indianapolis Switch & Frog Co. (Frogs, Switches & Crossings, etc.)
 *†International Harvester Co. (Agrl. Implements, etc.) (See Chicago)
 *†§Kelly, O. S. Co. (Traction Engines, Piano Plates, etc.)
 *†Kelly Springfield Road Roller Co. (Road Rollers, etc.)
 *Lagonda Mfg. Co. (Boiler Flue & Tube Cleaners, Valves, Dampers, etc.)
 *†Leffel, Jas & Co. (Turbine Water Wheels & Engines, etc.)
 *Long, W. Z. (Confectioners' Mach'y, etc.)
 *†Mast, Foos & Co. (Buckeye Lawn Mowers, Force Pumps, Wind Engines, etc.)
 *†Mast, P. P. & Co. (Ag'l Impls., etc.)
 *Mentels, The (Gas Heating Stoves for Natural & Artificial Gas, etc.)
 *Miller Improved Gas Engine Co. (Heavy Duty Gas Engines)
 *§Noite Brass Co. (Brass Fdrys. & Finishers)
 *OWEN MACHINE TOOL CO. (Machine Tools) (See adv. index, end of book)
 *†Patrie Furnace Co. (Hot Air Furnaces)
 *Progress Furnace Co. (Furnaces & Stoves)
 *Reed Mfg. Co. (Rug Looms, etc.)
 *†Robbins & Myers Co. (Light Iron Castings & Dynamos, Motors, Electric Fans, etc.)
 *Roberts, Thomas (Feed Mills, etc.)
 *Rodgers, Geo. G. (Machinist)
 *†Ross, E. W. Co. (Sugar Cane Mills & Fodder Cutters, etc.)
 *Safety Emery Wheel Co. (Tools & Emery Grinders, etc.)
 *Shawver Co. (Woodworking Mach'y)
 *Shiers, J. A. Supply Co. (Tools, etc.)
 *§Springfield Brass Co. (Brass Fdrys. & Finishers, Steam Specialties, etc.)
 *Springfield Gas Engine Co. (Gas Engines)
 *†Springfield Machine Tool Co. (Lathes, Presses, etc.)
 *Superior Gas Engine Co. (Gas & Gasoline Engines)
 *†Thomas Mfg. Co. (Ag'l Impls., Pumps & Lawn Mowers, etc.)
 *Thompson Grinder Co. (Grinding Mach'y, etc.)
 *†Trump Mfg. Co. (Engines, Water Wheels & Transmitting Mach'y)
 *Victor Feed Mills Co. (Feed Mills, etc.)
 *Webster & Perks Tool Co. (Machine Tools, etc.)

*Western Tool & Mfg. Co. (Tool Holders, Mandrels, etc.)
 *†Wickman Piano Plate Co. (Piano Plates & Piano Hdw.)
STUEBENVILLE—*†Irwin, J. O. (Engines & Iron & Brass Castings)
 *†La Belle Iron Works
 *†Means Foundry & Machine Co. (Brick Mach'y & Iron & Brass Castings)
 †Sharp, Wm. L. & Son (Grates, etc.)
SWANTON—*†Baker, A. D. Co. (Traction Engines & Metal Wheels, Etc.)
TIFFIN—*Brickner Machine Co.
 *†Herrmann & Myers (Gas Heaters, Ranges, etc.)
 *Klopp Bros. (Machinists)
 *†Loomis Machine Co. (Well Boring & Drilling Mach'y.)
 *†National Machinery Co. (Bolt & Nut & Rivet Mach'y., etc.)
 *†Sterling Emery Wheel Mfg. Co. (Emery Wheels & Emery Wheel Mach'y.)
 *†Tiffin Wagon Co. (Agl. Impls., Brick Mach'y., etc.)
TOLEDO—*†Advance Machinery Co. (Wood-working Machinery)
 *American Foundry Co. (Iron Founders)
 *†American Foundry & Furnace Co. (See Bloomington, Ill.)
 *American Metal Wheel & Auto Co.
 *†American Pump & Supply Co. (Iron Pumps, etc.)
 *American Tubular Axle Co.
 *Automatic Machine & Tool Co.
 *†Baker Bros. (Key Seaters, Tapping & Boring Machines & Woodworking Mach'y.)
 *Banting Machine Co. (Agl. Impls., etc.)
 *†Braunschweiger Bros. (Special Mach'y., Tools, etc.)
 *Brunning Metal Wheel Works (Truck & Car Wheels, etc.)
 *†Consolidated Pump Co.
 *De Vilbiss Mfg. Co. (Surgical Instruments)
DONOVAN WIRE & IRON CO. (Grey Iron Castings) (See adv. index, end of book)
 †Ensign Foundry Co. (Iron Founders)
 *Etna Machine Co.
 *†Foster, C. M. & Co. (Iron Fdrs., etc.)
 *Gendron Wheel Co. (Bicycle Wheels)
 †Harris Toy Co. (Cast Iron Toys, etc.)
 *†Houghton Elevator & Machine Co. (Elevators, etc.)
 *†Heartley, Geo. W. (Bicycle & Metal Wheel Mach'y., etc.)
 *†Jones, S. M. Co. (Gas Engines & Oil Well Supplies)
 *Keasey Pulley Co. (Power Transmitting Machinery)
 *Kent Machine Co. (Machinists)
 *Kirk Bros.' Automobile Co. (Bicycles)
 *Lawrence Mfg. Co. (Cream Separators & Dairy Mach'y.)
 *McCreery Engineering Co. (Ventilators & Air Cooling Mach'y., etc.)
 *McLeary, Ed. (Machinist)
 *Meilink Mfg. Co. (Tools, etc.)
 *†Merrell Mfg. Co. (Pipe Cutting & Threading Mach'y., etc.)
 *†Milmine, H. B. & Co. (Iron Fdrs., etc.)
 *Moore, C. H. (Edge Tools, etc.)
 †National Malleable Casting Co. (See Cleveland, O.)
 *†National Supply Co. (Oil Well Supplies, etc.)
 *†Ohio Implement Co. (Agl. Implements)
 *Ohio Steam Shovel Co. (Steam Shovels, etc.)
 *Owens Bottle Machine Co. (Bottle Machines)
 *Pope Motor Car Co.
 *Powell, F. & Co.
 *Rathbun-Lacy Co. (Marine Gas Engines)
 *Reeves Gas Engine & Motor Works
 *†Ricard Boiler & Engine Co. (Castings, etc.)
 *Ross, E. & Co. (Novelty Rug Machines)
 *†Rumely, M. Co. (See La Porte, Ind.)
 *Seeger, Valentine (Brass & Comp. Castings)
 *Shaw-Kendall Engineering Co.
 *Sutton, C. E. Co. (Punches & Shears, Milling Machines, etc.)
 *§Toledo Brass & Novelty Works (Brass & Comp. Castings)
 †Toledo Castings & Forge Co. (Grey Iron)
 *§Toledo Chandellier Mfg. Co. (Castings)
 *Toledo Computing Scale Co. (Computing Scales, etc.)
 *†Toledo Foundry & Machine Co. (Steam Shovels, Castings, Engines, Dredging Machinery, etc.)
 *†Toledo Machine & Tool Co. (Punching & Shearing Mach'y., Power Presses, Power & Drop Hammers, etc.)
 *Toledo-Masillon Bridge Co. (Structural Iron Work, etc.)

*Toledo Metal Wheel Co. (Bicycles, Metal Wheels, etc.)
TOLEDO PIPE THREADING MACHINE CO. (Pipe Threading Machines, Dies, etc.) (See adv. index, end of book)
 *†Toledo Plow Co. (Plows, etc.)
 *Toledo Saw Co. (Saws, etc.)
 *†Toledo Ship Building Co. (Ship Builders, Engines, Brass & Grey Iron Castings)
 *Union Fire Arms Co.
 †U. S. Malleable Iron Co. (Malleable Iron Castings, etc.)
 *Universal Machine Co. (Gasoline Motors)
 *§Vulcan Iron Works Co. (Steam Shovels & Dredges & Iron & Brass Castings)
 *§Western Gas Fixture Co. (Gas & Elec. Fixtures, etc.)
 *Yost Electric Mfg. Co. (Lawn Sprinklers, Lamp Sockets, etc.)
TORONTO—*†Toronto Machine Co. (Machinists)
TROMBLEY—*Ohio Oil Co. (Mach. Shops)
TROY—*Hobart Electric Mfg. Co. (Electric Coffee Mills & Meat Choppers, etc.)
 *†Troy Foundry & Machine Co.
TYRELL—*Tyrell, A. H. & Son (Iron Fdrs.)
UPPER SANDUSKY—*†National Steam Pump Co.
 *Ohio Mfg. Co. (Agl. Impls., etc.)
URBANA—*†Crane, M. H. & Co. (Stoves, etc.)
 *§Desmond-Stephen Mfg. Co. (Injectors, etc.)
 *†Illinois Car Co. (Cars, etc.)
UTICA—*Cree, J. A.
VAN WERT—*Frisbie, F. C.
 *†Spayd Bros.
WADSWORTH—*§Ohio Injector Co. (Boiler Injectors, etc.)
WALDO—*Long, J. F.
WAPAKONETA—†Wapak. Hollow Ware Co.
 *Wapakoneta Machine Co.
WARREN—*†Aetna Fdy. & Machine Co. (Tin & Sheet Mill Mach'y. & Castings)
 *Borden Co. (Hand Pipe Threading Machines, etc.)
 *†Day-Ward Co. (Cast Iron Enameled Sanitary Bath Tubs, etc.)
 *Denison Mfg. Co. (Carpet Stretchers, Curling Irons, etc.)
 *†§General Fire Extinguisher Co. (Fire Sprinklers) (See Providence, R. I.)
 *Holscher, C. Electric Mfg. Co. (Electrical Specialties)
 *Iron City Grate Bar Co. (Grate Bars, etc.)
 *†McMyler Mfg. Co. (Hoisting & Conveying Mach'y.) (See Cleveland, Ohio)
 *Monarch Electric Mfg. Co. (Electrical Specialties)
 *New York & Ohio Co. (Electrical Goods, etc.)
 Packard Electric Co. (Electrical Specialties)
 *Phoenix Electric Co. (Electrical Specialties)
 *Peerless Electric Co. (Dynamoes & Motors & Transformers)
 *Riverside Machine Co.
 *Smaith Electric Co. (Electrical Specialties)
 Sterling Electric Mfg. Co. (Electrical Specialties)
 *†Trumbull Mfg. Co. (Gasoline Engines & Cylinders & Castings)
 *Warren Electric & Specialty Co. (Motors, etc.)
 *†Warren Steel Range Works (Stoves, Ranges, etc.)
WASHINGTON C. H.—*Swope, Geo. B.
 *†Wonder Mfg. Co. (Stoves)
WAUSEON—*Red King Mfg. Co. (Windmills, etc.)
 *Schletz, Philip
WELLINGTON—Wellington Machine Co. (Brick Mach'y., etc.)
WELLSTON—*†Peck-Williamson Fdry. Co. (See Cincinnati, Ohio)
 †Wellston Foundry Co.
 *Wellston Plumbing & Machine Co.
WELLSVILLE—*†Menough Foundry Co. (Iron Fdrs.)
 *†Stevenson Co. (Brick Mach'y., etc.)
WEST ALEXANDRIA—*†Pence-Seward Mfg. Co. (Structural Iron & Machine Works)
WEST MILTON—*Everett, W. D. J.
WESTERVILLE—*Bennet, H. L. & Co.
WESTPARK—*Cleveland Car Co. (Industrial Cars, etc.)
 *Norton Tool Co. (Tools, etc.)
WICKLIFFE—*Cleveland Crane & Car Co. (Cranes & Hoists)
WILLOUGHBY—*†American Clay Machinery Co. (See Bucyrus, O.)
WILMINGTON—*Champion Bridge Co. (Structural Steel Work, etc.)
 †Farquhar Furnace Co.
 *Irwin Auger Bit Co. (Auger Bits, etc.)
WINCHESTER—*O. K. Gasoline Engine Co. (Gasoline Engines)

WOOSTER—*†Barrett's, B. Sons
WYOMING—*Cincinnati Lawn Mower Co. (Lawn Mowers, etc.)
XENIA—*†Kelly, R. A. Co. (Shaping Machines, Machine Tools, etc.)
YOUNGSTOWN—*§Falcon Bronze Co. Brass & Bronze Castings, Tuyeres & Coolers)
 *Falcon Motor Works (Motors, etc.)
 *Finished Steel Co. (Polished Steel Shafting)
 *General Fireproofing Co. (Steel Products)
 *McKay, G. G. (Machine & Job Work)
 *Pollock, Wm. B. Co. (Gas Works Mach'y., etc.)
 *Reliance Edge Tool Co. (Edge Tools, etc.)
 *†Scholl, Sempie & Jordan Co.
 *†Tod, Wm. Co. (Rolling Mill Engines, Converters, etc.)
 †Truman, A. L. & Son. (Stove Castings)
 *†United Engineering & Foundry Co. (Rolling Mill Mach'y. & Castings). (See Pittsburgh, Pa.)
 *†Wiener, Ernst Co. (R. R. Supplies, Cars, etc.)
 *§Youngstown Bronze & Iron Co. (Brass & Bronze, Small & Grey Iron Castings)
 *†Youngstown Car Mfg. Co. (Steel & Freight Cars, Car Wheels & Castings)
 *†Youngstown Engineering Co. (Cranes, Castings, etc.)
 *†Youngstown Foundry & Machine Co. (Rolling Mill Mach'y.)
 *†Youngstown Furnace & Supply Co. (Hot Air Furnace Mfrs.)
 *†Youngstown Iron & Steel Roofing Co. (Stoves & Ranges)
 *†Youngstown Steel Co. (Steel Castings)
 *Youngstown Wire & Iron Co. (Fire Escapes, etc.)
ZANESVILLE—*†Brown Mfg. Co. (Plows, Agri. Impls., etc.)
 *§Dockary, H. V. Brass & Iron Co.
 *Ferrell Brake & Mfg. Co. (Brakes, etc.)
 *†Griffith & Wedge Co. (Engines, Saw Mill Mach'y., etc.)
 *†Jones, Chas. H. (Stoves)
 *Keystone Wrapping Machine Co. (Wrapping Machines)
 †Weidig & Co.
 *Zanesville Chemical Engine Co. (Chemical Engines)
 *†Zanesville Malleable Co.

OKLAHOMA TERRITORY.

BLACKWELL—*Rice Bros.
CARMEN—*Mott, J. F.
CHEROKEE—*Cherokee Electrical & Mfg. Co.
EL RENO—*†El Reno Foundry & Machine Co.
ENID—*†Enid Machinery & Supply Co.
 *Young, John A. (Machinist)
JENNINGS—*Jennings Machine Co.
LAMONT—*Snyder Bros.
OKLAHOMA—†Ehret, Conrad
 *Sherman, N. S. Machinery Co.
 Zalondek Machine Co.
SHAWNEE—*†Wilkinson & Fisher
STILLWATER—*Thatcher & Sons
WOODWARD—*Boyle, R. A. Mfg. Co.

OREGON.

ALBANY—*†Albany Iron Works (Flour Mill, Mining, etc.)
ASHLAND—†Ashland Iron Works
ASTORIA—*†§Astoria Iron Works (Inc.) (Engines, Canning Machinery & Iron & Brass Castings)
 *†Lovell, J. L.
 *†Pacific Iron Works (Mining & Saw Mill Machinery, etc.)
BAKER CITY—*†Baker City Iron & Supply Co.
 *†Blue Mountain Iron Works
BANDON—*Garfield, A.
CORNELIUS—*†City Foundry & Machine Co.
DALLAS—*†Biddle, E.
EUGENE—*†Frazer, G. N.
 *†Gross Bros. (Fdrs. & Machinists)
HELIX—*Richardson, D. B.
McMINNVILLE—*Gee, Henry
MARSHFIELD—*†Nelson, F. E.
MEDFORD—*Trowbridge & Danielson
NORTH BEND—†North Bend Iron Works
OREGON CITY—*Roake, J. A.
PENDLETON—†Pendleton Iron Works
PORTLAND—*American Tool Works (Tools, etc.)
 *Bell & Wildman
 *†Columbia Engineering Works
 *Cornfoot, Wm.
 *Gardner & Viggers
 *§Harpers Art Brass Works (Brass, Composition, Bronze, Machinists, etc.)
 *Harris, H. E. (Ice Mach'y., etc.)
 *Hartmann, J. P. & Sons (Machinists)

*†Heacock & Lawrence
 *†Heintz, A. R. & Co. (Iron Fdrys. & Machinists)
 *Hicks, Burt (Machinist)
 *Hippely & Myers
 *Hiloneymau, Jno. & Co. (Iron Fdrys. & Machinists)
 *Isensee, Wm. (Machinist)
 *Kelly, J. B. (Machinist)
 †Machen, Chas. F., Iron Works
 †Miller, Louis
 *†Montag, Jno. (Stoves)
 *†Novelty Stove Works
 *†Oregon Brass Works
 *†Phoenix Iron Works
 *†Portland Iron Works (Inc.) (Iron Fdrys. & Flour, Saw & Paper Mill Mach'y, Engines, etc.)
 *Portland Wire & Iron Works
 *Precemeder & Tureck
 *†Smith & Watson Iron Works
 *Trenkman, B. & Co.
 *†Vulcan Iron Works
 *Wood, John, Iron Works Co.
 RAINIER—†Rainier Iron Works
 SALEM—*†Loewenberg & Going Co (Stoves)
 *Maurer & Wilson
 †Shand & Marcus
 THE DALLIES—*Clough, H.
 *†Kirk, J. B.
 WOODBURN—†McKinney, J.

PENNSYLVANIA.

ADAMSTOWN—*Shirk, A. G.
 ALLEGHENY—*§Adams Bros. Mfg. Co. (Gas Burners, etc.)
 *Ajax Mfg. Co., 848 Jackson av. (See Pittsburgh, Pa.)
 *Albree, Chester B. (Riveting Machines), †Allegheny Fdry. Co., Bouquet & Grant av
 *Carlin Machinery & Supply Co.
 *†CARLIN'S, THOS. SONS CO. (Hoisting Engines & Contractors' & Rolling Mill Machy.), 1300 River av. (See adv. index, end of book)
 *†Central Pipe Valve & Construction Co.
 *Dafinger, Chas. A. & Co. (Machinists).
 §Damascus Bronze Co. (Bronze Castings, Bearings, etc.)
 *Danver, R. H. (Machinist), 845 Penna. av
 *Duff Mfg. Co. (Hydraulic Jacks, etc.)
 *†Eagle Foundry & Machine Co. (Iron Fdrys. & Machinists), 1022 Main
 *†Eagle Tool & Machine Co. (Special Machy., Tools, Repair Work, Gear & Rack Cutting)
 †Enterprise Fdry. Co. (Ltd.) (Castings, etc.) Nixon & Manhattan
 *Federal Machinery Co. (Machinery), 916 Bouquet
 *Fox Fishing Tool & Machine Co., 519
 *Gillespie Mfg. Co., 100 Sandusky Ann
 *†Hall Steam Pump Co., 215 Grant av. (See Pittsburgh, Pa.)
 *Hardsocg, Martin Mfg. Co. (Miners' Tools), 922 South av
 *Heathcote, Thos. (Tools, etc.), 829 Penna av
 *Hipwell Mfg. Co., 831 North av
 *Hoerle, W. M. (Dies & Machine Specialties)
 *†McKinney Mfg. Co. (Hinges, Butts, Hdw., etc.)
 §Magnus Metal Co. (Babbitt & Anti-Friction Metals, etc.)
 †Monongahela Casting Co.
 *†National Car Wheel Co.
 *†National Gear Wheel & Fdry Co. (Casting, Gears, Gas Engines, etc.), South av & Walker
 *†Penna. Car Wheel Co. (Car Wheels etc.)
 *†Penna. Casting & Machine Co.
 *§Penna. R. R. Co.'s (Brass Fdry., etc.)
 Pittsburgh Forge & Iron Co.
 *§Pittsburg Lamp, Brass & Glass Co., Locust & River (See Pittsburgh, Pa.)
 *Pittsburg Machine Tool Co. (Engine Lathes, etc.), 61 Darrah
 †Pittsburg Steel Construction Co. (See Pittsburgh, Pa.)
 *†Pittsburg Stove & Range Co., Robinson & Darrah. (See Pittsburgh, Pa.)
 *Pressed Steel Car Co. (See Pittsburgh, Pa.)
 *†Riesick, Peter (Bldrs.' Iron Work, etc.)
 *†Rosedale Foundry & Machine Co. (Rolling Mill & Tube Mill Machinery & Castings, etc.)
 *Standard Heater Co., Imperial Power bldg
 *†§Standard Sanitary Mfg. Co. (Enameled Iron Sanitary Specialties) (See Pittsburgh)
 *Stephenson Mfg. Co. (Gas Stoves, Instantaneous Water Heaters)

ALLENTOWN—*†Allentown Foundry & Machine Works (Beet & Cane Sugar Machinery, Gun Powder Machinery & Castings)
 *Allentown Bobbins Works (Steel Bobbins)
 *†Allentown Rolling Mills (Rolling Mill Machy., High Duty Pumping Engines, etc.)
 *†Daugherty Foundry Co. (Gray Iron Castings, Grate Bars, etc.)
 *Excelsior Knitting Machine Mfg. Co. (Knitting Machy.)
 Grammes, L. F. & Sons (Cigar & Paper Box Works, etc.)
 *†§Kline Hardware Co. (Grey Iron & Brass Castings, & Hdw.)
 *Kutz & Gift (Capsule Moulds, etc.)
 *Lindstrom, Jno. T. (Steam Trap & Separators, etc.)
 *§Meisterknecht, Richard C. (Brass Fdry. & Finisher)
 *†Mosser, W. F. & Son (Iron Fdrys., Cement Mach'y, etc.)
 *Nadig, C. H. Mfg. Co. (Steam Engines, etc.)
 *†§Spangler, Chas. (Grey & Brass & Bronze Castings)
 *Taylor, Wm. H., & Co.
 ALTOONA—*†Altoona Foundry & Machine Co. (Grate Bars, Sheave Wheels & Castings)
 *Monarch Machine Works
 *†Penna. R. R. Co.'s (Shops)
 ALVERTON—†Alverton Foundry Co.
 ARDMORE—†Autocar Co.
 ASHLAND—*†Goynne Steam Pump Co. (Steam Pumps)
 ATHENS—*Imperial Pneumatic Tool Co. (Pneumatic Tools)
 AVONDALE—*Anderson, Thos. & Co.
 AVONMORE—*†West Penn Foundry & Machine Co. (Rolling Mill, Hydraulic & Plate Glass Mach'y)
 BANGOR—*†Flory, S. Mfg. Co. (Iron Fdrys., Hoisting Engines, Stone & Slate Working Machy., etc.)
 BATH—*Bath Foundry & Machine Co. (Core Drills, etc.)
 BAUSMAN—*Bausman, D. H. (Machinist, etc.)
 BEAVER FALLS—*Beaver Falls Mfg. & Fuel Co. (Coal & Rock Drills, Tools Mining, etc.)
 *†Champion Saw Co. (Gas & Gasoline Engines, Saws & Iron Founders)
 *Emerson, Smith & Co. (Saws & Specialties)
 *†Howard Stove Co. (Stoves & Ranges)
 *Keystone Driller Co. (Well Drilling Mach'y, etc.)
 *†Knott, Harker & Co. (Fire Place Furnishings, Castings, etc.)
 *National Scale Co. (Computing Scales & Counting Machines)
 *†Penn Bridge Co. (Bridge Turn Tables, etc.)
 *Standard Connecting Rod Co. (Connecting Rods, etc.)
 *Standard Gauge Steel Co. (Finished Machine Keys, Compressed Steel Elevator Guards, etc.)
 *Union Drawn Steel Co. (Polished Steel Shafting, etc.)
 BEDFORD—†Cromwell, W. F.
 BELLEFONTE—*†Lingle, J. H. (Helve Hammer)
 BELLVILLE—*†Hertzler & Zook (Machinists)
 BELLWOOD—*†Bellwood Mfg. Co. (Car & R. Castings)
 BENNETT—†Jorden, R. H. (Steel & Cast Iron Piston Rings)
 *Lippert, E. T. Saw Mfg. Co. (Saws, etc.)
 BENROY—*†Strickler, B. F. (Tobacco Scrap Mach'y)
 BERWICK—*†American Car & Foundry Co. (See St. Louis, Mo.)
 †Fenstermacher, Henry
 BETHLEHEM—*†Guerber Engineering Co. (Railroad Switches, etc.)
 *National Vending Machine Co. (Vending Machines)
 †Reese, Lewis O. (Iron Fdry.)
 BIRDSBORO—*†Birdsboro Steel Foundry & Machine Co. (Core Drills, Rolling Mill Machinery & Iron & Steel Castings, etc.)
 BLAIRSVILLE—*Blairsville Machine Works
 †Tittle, C. L. (Iron Fdry.)
 BLOOMSBURG—*†American Car & Foundry Co. (See St. Louis, Mo.)
 *†American Seating Co. (School Furniture)
 *Brower, E. B. Co. (Gas Engines, etc.)
 *Geese, Jeremiah & Co. (Machinists)
 *†Richard Mfg. Co. (Special Machy., etc.)

BLOSSBURG—†Moore, Thos. J.
 BLUE BALL—*Shirk, P. E. (Wrapper Cutting Machines, etc.)
 BOLIVER—*†Boliver Foundry & Machine Co.
 BOYERTOWN—Megerly, Chas. O.
 *Schlegel, Daniel (Agrl. Impls.)
 *†Union Mfg. Co. (Sad-Irons, etc.)
 BRACKENRIDGE—*Solid Steel Tool & Forge Co.
 BRADDOCK—*Acme Tool & Mfg. Co. (Tools, etc.)
 *Automatic Bottling Machine Co. (Bottling Machines, etc.)
 *†Braddock Machine & Mfg. Co. (Rolling Mill Machinery)
 *†Carnegie Steel Co. (See Pittsburgh)
 †McVay & Walker (Founders, Sanitary Enameled Cast Iron Goods, Bath Tubs, etc.)
 †Sterling Steel Foundry Co. (Steel Castings, etc.)
 BRADFORD—*Blaisdell Machinery Co. (Gas Engines, Air Compressors, etc.)
 *†Boviard & Co. (Engines, etc.)
 *†Bovaird & Seyfang Mfg. Co. (Engines, Boilers, Pumps, Oil & Gas Well Supplies, Well Drilling Machinery, etc.)
 *†§Caldwell, E. R. & Co. (Iron & Brass Fdrys., Steam Engines, Pumps & Oil Well Supplies)
 *†Custer Coupling Co. (Couplings, Clamps, etc.)
 *†Dresser, S. R. Mfg. Co. (Pipe Couplings, Packers' Clamps, Sleeves & Fillings, etc.)
 *Flickinger Iron Works (Gas Engines)
 *Leader Specialty Mfg. Co. (Gas Regulators, etc.)
 *Hamilton, F. (Oil Well Tools, etc.)
 *Ley, Jno. (Oil Well Tools, etc.)
 *Lytle, M. & Son (Machinists)
 *McElwaine Co. (Gas Engines, etc.)
 *Phillips, David Co. (Oil Well Tools, etc.)
 *Standard Saw Co. (Saws, etc.)
 *Williamson Mfg. Co. (Vises, etc.)
 BRICK TAVERN—*Gerlack, Chas. L.
 BRIDGEPORT—†Fairmount Foundry Co.
 †Gehret Bros.
 †Lorenna Foundry Co.
 *†Wilkinson Mfg. Co. (Automatic Stokers, etc.)
 BRISTOL—*Ardrey, S. B. & Sons (Textile Mach'y, etc.)
 *†Harkins, T. B. Foundry Co. (Stoves, Furnaces, etc.)
 BROOKVILLE—*†Jenks, W. H. (Machinist)
 BROWNSVILLE—*†Herbertson's, John Sons.
 BRUNNERSVILLE—†Bentz, Frank B.
 BURNHAM—†Standard Steel Works (Steel Castings, etc.) (See Phila., Pa.)
 BUTLER—*Braden Gas Engine Co.
 *†Butler Engine & Foundry Co. (Engines, etc.)
 *†Campbell, J. G. & W. (Oil Well Supplies)
 *Etna Mfg. Co. (Oil Well Supplies, etc.)
 *†Evaus Mfg. Co. (Engines & Gas Well Supplies)
 *Heeter, C. M. Sons & Co. (Drilling & Fishing Tools, etc.)
 *Kesselman & Co. (Oil Well Supplies)
 *Larkin & Co. (Machinists)
 *Palm Gas Engines Co. (Gas Engines, etc.)
 *Phillips, T. W. Mfg. Co. (Oil Well Supplies)
 *†§Pittsburg-Hickson Co. (Brass & Iron Beds)
 *Sherman, J. B. (Machinist)
 *Spang & Co. (Machinists & Oil Well Supplies)
 *†Standard Steel Car Co. (Steel Cars & Trucks, etc.) (See Pittsburgh, Pa.)
 CALIFORNIA—*†California Fdry. & Machine Co.
 †King, J. W. (Stoves, etc.)
 CANONSBURG—*Alexander Mfg. Co. (Machinery)
 †Canonsburg Steel & Iron Works
 *†Fort Pitt Bridge Works (See Pittsburgh, Penna.)
 CARBONDALE—*Carbondale Machine Co. (Ice & Refrigerating Machinery)
 *†Cross Engineering Co. (Coal & Ore Machinery, etc.)
 *†Sperl Heater Co.
 †Van Bergen & Co. (Fdry.)
 CARLISLE—*†Gardner, E. J. Axle & Machine Co. (Axles & Machine Work)
 *†Manufacturing Co. of Carlisle (Inc.) (Frogs, Switches, etc.)
 CARNEGIE—†Adler, H. Co. (Gas Stoves, etc.)
 *Alexander Bros. (Stove Pipe Mach'y)
 CATASAUQUA—*†Davies & Thomas Co.
 †Hercules Metal Works (Brass, Bronze & Copper Castings, etc.)
 *†Lehigh Car Wheel & Axle Works (Cars, Wheels & Axles, etc.)
 *Lenox Mfg. Co. (Sewing Machine Attachments)

CATAWISSA—*†Catawissa Car & Casting Co. (Cars, Car Wheels, Castings & Forgings)
CENTER HALL—†Luse Mfg. Co. (Hydrants, etc.)
CHAMBERSBURG—*†Chambersburg Engineering Co. (Steam Hammers, Cranes, etc.)
 *Hug, A. C. (Machinist)
 *Schaal, Jno.
 *Tunis, Robt. W. Mfg. Co. (Printing Presses, etc.)
 *†Wolf Co. (Flour Mill & Power Transmitting Machinery)
 *†Wood's, T. B. Sons
CHARLEROI—*†Charleroi Foundry & Machine Co.
CHESTER—*†American Steel Foundries Co. (Open Hearth Steel) (See Chicago, Ill.)
 *Baldt Anchor Co. (Anchors, etc.)
 *Barrowclough, Edward
 *Berry Engineering Co. (Steam Specialties)
 *Birtwell, Henry B. (Mach'y, etc.)
 *Black, John B. (Edge Tools, etc.)
 *†Boulden, Wm. M. & Sons
 *†Chester Steel Castings Co. (Open Hearth Steel Castings)
 *Cheyney, Jno. H. & Co. (Machinists)
 §Crown Smelting Co. (Brass Fdrs. & Machinery Castings, etc.)
 *†Delaware River Iron Ship Building & Engine Works (Marine Engines & Ship Builders)
 *Federal Steel Foundry Co. (Steel Castings)
 *Johnson Motor Co. (Gas & Gasoline Engines, etc.)
 *†Johnston Railroad Frog & Switch Co. (Railway Track Work & Iron & Steel Castings)
 *Niagara Hydraulic Engine Co. (Hydraulic Engines, etc.)
 †Penn Steel Castings & Machine Co. (Castings Acid Open Hearth Steel of All Descriptions)
 *†Seaboard Steel Casting Co. (Founders, Steel)
 †Solid Steel Casting Co. (Steel Castings)
 *†Vulcan Works (Cotton Presses, Accumulators, Castings, etc.)
 *Wetherill Bros.' Machine Co. (Special Machinery Designed & Constructed)
 *†Wetherill, Robt. & Co. (Corliss Engines, Paper & Pulp Mill Mach'y, etc.)
CHESTNUT LEVEL—*Brown, J. Edgar
CHICORA—*Bowers, Warren
 *Chlorca Machine Works
CHRISTIANA—*†Christiana Machine Co. (Mill Mach'y)
CLEARFIELD—*†Byers, A. M. Co.
 *†Clearfield Machine Shops (Ltd.), (Fire Brick Mach'y)
 *Gearheart, Joseph E. & Son (Knitting Machines)
CLEONA—*Imboden Harrow & Roller Co. (Agrl. Implements)
COATESVILLE—*†Ridgway, Craig & Son Co. (Cranes & Hoists, etc.)
 *Taite Railway Signal Co.
 *Worth Bros. Co. (Boiler Plates, etc.)
COCHRANTON—*B. & B. Iron Works
CODORUS—*†Auchey, Abraham (Iron Fdry, etc.)
COLUMBIA—*†Columbia Grey Iron Co. (Light Grey Iron Castings & Builders' Hdware.)
 *†Keeley Stove Co. (Stoves, Ranges & Furnaces)
 *†Shawnee Foundry
 *Smith, E. G. Co. (Concave & Convex Gauges, etc.)
 *†Wilson Laundry Mach'y Co. (Laundry Mach'y)
CONNEAUTVILLE—*†Moulthrop Bros.
CONNELLVILLE—*†Boytz, Porter & Co. (Steam Pumps, etc.)
 *†Connellsville Machine & Car Co. (Pumps, Engines, Mine Fans & Iron & Brass Castings, etc.)
 *Connellsville Machine & Car Supply Co.
 *†Connellsville Mfg. & Mine Supply Co.
 †Munson Heater Co. (Heaters, etc.)
 *†Pittsburg Safe Co. (Safes, etc.)
CONSHOHOCKEN—*†Bate, Wm. T. & Son
 *Lee, J. Ellwood Co. (Surgical Dressing Machinery to be used in their own Factory)
 *†Messinger's, H. C. Sons (Stoves, etc.)
 *†Wood, Jno. Mfg. Co. (Boilers, Tanks & Iron Fdrs.)
CONYNGHAM—*†Getting, J. D.
CORAOPOLIS—*†Duquesne Steel Foundry Co. (See Pittsburg, Pa.)
 *Shamberg & Allen Machine Co.
CORRY—*†Ajax Iron Works (Gas Engines, etc.)
 *†Cllmax Mfg. Co. (Logging Locomotives)
 *†Love Mfg. Co. (Cars, etc.)
 *Trill, W. L. (Engineers' Instruments)
 *U. S. Radiator & Boiler Co. (Boilers, Radiators, etc.), (See W. Newton, Pa.)

COUDERSPORT—*Currier & Gordiner
COWANESQUE—†Riepple, Jno.
CRAFTON—*Fisher, J. J. & Co.
CRESSON—*†Cresson Fdry. Mach. & Car Co. (Mine Cars, Wheels & Railroad & Mine Castings, etc.) (See Ebensburg, Pa.)
CURWENSVILLE—*Robinson, T. J.
DANVILLE—Brown, Will G. (Machinist)
 *†Curry & Co. (Rolling Mill & Mining Machinery & Castings up to 30,000 lbs.)
 *†§Danville Foundry & Machine Co. (Rolling Mill Mach'y, Engines, Grey Iron & Brass Castings, etc.)
 *†Danville Stove & Mfg. Co. (Stoves & Hooley, John C. & Co. Furnaces)
DARLINGTON—†U. S. Furnace & Foundry Co.
DAWSON—*†Dawson Foundry & Machine Co.
DELTA—*†Robert, Richard & Son
 *Sidwell, C. W.
DOWNESVILLE—*†Downie Pump Co. (Steam & Geared Pumps, etc.)
DOYLESTOWN—*†Rufe Bros.
DUBOIS—*†DuBols Iron Works (Mining, Tannery & Saw Mill Mach'y, Grey Iron)
 *†Osborne Machine Co. (Castings, etc.)
EAST BANGOR—*†East Bangor Mfg. Co. (Harness Snaps, etc.)
EAST BROOK—*Hinkson Bros. (Machinists)
EAST DOWNTON—*†Downton Mfg. Co. (Paper Mill Mach'y, etc.)
EAST GREENVILLE—*†Haas, Harvey B.
EASTON—*Easton Brass & Machine Works
 *†Easton Foundry & Machine Co. (Iron & Steel Construction, Special Machinery & Structural Machinery, Castings, etc.)
 *Hobson & Co. (Agrl. Implants & Mach'y)
 *†INGERSOLL-RAND CO. (See New York City)
 *†Sterlingworth Railway Supply Co. (Castings, Cars, Brake Beams, etc.)
 *†Wilson Bros. (Bone Grinding Mach'y, etc.)
 *†Wilson, Jacob (Est. of)
 †Wilson Stove & Mfg. Co. (Stoves, etc.)
EAST PITTSBURG—*†Pittsburg Meter Co.
 *†WESTINGHOUSE ELECTRIC & MFG. Co. (See adv. index, end of book)
 *†Westinghouse Machine Co.
EAST STROUDSBURG—*§Empire Brass Works
 *†Stauffer, Geo. E. (Engines & Flour Mill Machinery, etc.)
EAST WATERFORD—*East Waterford Machine & Supply Co.
EBENSBURG—*Brown & Son.
 *†Cresson Fdry. Machine & Car Co. (Mine Cars, Wheels & Railroad Mine Castings, etc.)
ECKERT—*Sittler, Peter
EDDYSTONE—*†Belmont Iron Works (See Philadelphia, Pa.)
 *†Eddystone Steel Works (See Burham, Williams & Co., Philadelphia, Pa.)
 *†High Duty Saw & Tool Co. (Cold Saws, etc.)
 Simpson, Wm. & Sons (See Philadelphia, Pa.)
 *†Tindel-Morris Co. (Machine Tools, etc.)
ELIZABETHTOWN—*†Buch's A. Sons Co. (Fanning Mills, etc.)
ELIZABETHVILLE—*§Swab Foundry Co. (Castings, etc.)
ELKLICK—*Haselbarth, C. R. & Son (Hardware, etc.)
 *Improved Traction Engine Co. (Traction Engines, etc.)
ELLWOOD CITY—*Ellwood Foundry Co.
 *†Standard Engineer Co. (Rolling Mill, Sugar Mill & Powder Machinery & Grey Iron Castings)
 †Pennsylvania Stove Co. (Stoves, etc.)
ELYSBURG—*†Deshay, D. H. (Farm Implements & Castings of All Kinds)
EMAUS—†Donaldson Iron Co. (Cast Iron Pipe)
EMIANTON—*Sheffer, G. M.
EMPORIUM—*†Emporium Machine Co.
EPHRATA—*†Ephrata Foundry & Machine Works
ERIE—*American Beauty Gas Stove Works
 *†American Stoker Co. (Stokers)
 *†Ball Engine Co. (Steam Engines, Machinery, Castings, etc.)
 *Bay State Iron Works (Portable Engines, etc.)
 *Bay State Machine Co. (Gas Engines, etc.)
 *Brown Folding Machine Co. (Paper Folding Machines)
 *Burke Electric Co. (Dynamo, etc.)
 *Bury Compressor Co. (Air Compressors, Vacuum Pumps, etc.)
 *§Campbell, J. B. Brass Works (Brass Fdry. & Finisher & Plumbing Goods)
 †Cascade Foundry Co. (Grey Iron Castings)
 *Chapman, C. L. Cream Separator Works
 *†Erie Car Works (Cars) (Dairy Machy)

*†Erie City Iron Works (Steam Engines, etc.)
 *Erie Electric Motor Co. (Elec. Motors)
 *†Erie Engine Works (Steam Engines, etc.)
 *Erie Foundry Co. (Steam Hammers, etc.)
 *Erie Machine Shops (P. W. Dietley, 1" (Machinists & Machy)
 †Erie Malleable Iron Co. (Malleable & Grey Iron Castings)
 *Erie Mfg. & Supply Co. (Steam Engines, Heaters, etc.)
 *Erie Pump & Engine Co. (Engines & Pumping Machinery)
 *Erie Specialty Co. (Hdw. Specialties, etc.)
 *Erie Tool Works (Common Tools, etc.)
 §Erie White Metal Co. (Babbitt Metal, etc.)
 †Eriez Stove & Mfg. Co. (Stoves, etc.)
 *†Germer Stove Co. (Stoves, etc.)
 *†Globe Iron Works
 *Griffin Mfg. Co. (Builders' Hdw., etc.)
 *†Griswold Mfg. Co. (Fine Light Castings, Gas Stoves, etc.)
 *Harrington Crank Shaft Co. (Crank Shafts)
 *§Hays Mfg. Co. (Iron & Brass Goods for Gas & Water)
 *§Hollands Mfg. Co. (Vises, Pipe Wrenches & Plumbers' Tools)
 *Hydraulic Iron Works
 *†Jarecki Mfg. Co. (Iron & Brass Fdrs., Malleable & Grey Iron Steam Fittings & Oil & Gas Well Supplies, etc.)
 *§Keystone Brass Co. (Brass Fdrs. & Finishers)
 *Lake City Engineering Co. (Pumping Machy, Marine Engines, etc.)
 *Lake City Machine Shop (Herman Ey, Prop.)
 *Link, E. M. Machinery Co. (Saw Mill Machinery, etc.)
 *§Lippold Valve Co. (Valve Mfrs.)
 *Lovell Mfg. Co. (Clothes Wringers, etc.)
 §Metric Metal Works
 *Modern Tool Co. (Dies, Tools, etc.)
 *Morse Iron Works
 *†Nagle Engine & Boiler Works (Steam Engines, etc.)
 *†National Foundry Co. (Grey Iron & Steel Castings)
 *§Noyes Brass Works (Brass Fdrs.)
 *Odin Stove Mfg. Co. (Gas Stoves, etc.)
 †Patterson & Sterling (Hot Air Furnaces)
 §Rahn & German
 *Reed Mfg. Co. (Pipe Wrenches, etc.)
 *Reifel Pump Works (Pumps, etc.)
 *Sims Co. (Steam Specialties)
 *†Skinner Engine Co. (Steam Engines, etc.)
 *†South Erie Iron Works (Stoves & Ranges)
 *Standard Saw Mill Machinery Co. (Saw Mill Machinery, etc.)
 *†Stearns Co. (Locomotives, etc.)
 *Steiner Mfg. Works (Tools, Emery Grinders, etc.)
 *†Taper Sleeve Pulley Works
 *†Union Iron Works (Boilers, etc.)
 †Walker Foundry Co. (Grey Iron Castings)
 *Watson, N. A. (Boiler Injectors, etc.)
 *Williams Tool Co. (Pipe Threading & Bolt Cutting Machines, etc.)
ETNA—*§Roessing Bronze Co. (Brass & Bronze Fdrs., etc.)
EVERETT—†Pettigrew, Wm. & Jas.
FAIRVIEW—*Excelsior Mfg. Co. (Hand Cultivators)
FORD CITY—*†Pittsburg Plate Glass Co. (See Pittsburg, Pa.)
FRANKLIN—†American Steel Foundries (Steel Castings)
 *†CHICAGO PNEUMATIC TOOL Co. (See Chicago, Ill.)
 *†Colburn Machine Tool Co. (Boring & Turning Mills, Saw Arbors, etc.)
 *Dale Engine & Supply Co. (Gas Engines)
 *†Emery, W. N. & Son (Iron Fdrs. & Machinists)
 *Franklin Motor Co. (Gas Engines)
 *Franklin Portable Crane & Hoist Co. (Portable Cranes & Hoists)
 Franklin Railway Supply Co. (Conduits, Lubricators & Railroad Supplies)
 Franklin Rolling Mill & Fdry. Co. (Malleable & Grey Iron Castings)
 *Franklin Sucker Rod Joint Co.
 *§Hough, Chas. N. Mfg. Co. (Brass Fdrs.)
 *Lane, D. T. & Sons (Finishers, etc.)
 *Shepherd Engineering Co. (Steam Engines)
 *Sheridan, J. S. & Sons
 *Vogan, J. P. (Sucker Rods, etc.)
FREELAND—*†Salmon Iron Co.
FREEMANSBURG—*†§National Novelty Corp'n (Iron Toys & Iron & Brass Castings, etc.) (See New York)
 *†Shimer, Wm. Son & Co. (Iron Fdrs. & Hardware Specialties)

FULLERTON—*†Dent Hardware Co. (Refrigerator Trimmings, etc.)
 *†Lehigh Car Wheel & Axle Works
 *†Lehigh Foundry Co. (Light & Heavy Grey Iron Castings, Rubbing Beds, etc.)
 GIBALTAR—*†Gibraltar Iron Works.
 GIRARD—Ely, Theo. J. Mfg. Co. (Hardware)
 *Girard Wrench Mfg. Co. (Specialties)
 †Lake Erie Foundry Co.
 GLASSPORT—*American Axe & Tool Co.
 †Pittsburg Steel Foundry (See Pittsburg, Pa.)
 GLEN ROCK—*†Norrish, Burnham & Co. (Mechanists & Fdr.)
 GOODVILLE—*Bauman, H. L.
 GRANT—†Cherry Tree Iron Works, Inc.
 GREENCASTLE—*Walk, Henry S. (Agl. Impls.)
 GREENMOUNT—*Null, Geo. W. (Impls.)
 GREEN PARK—†Rheems & Bro. (Iron Fdrs.)
 GREENSBORO—†Pennington, T. F.
 GREENSBURG—†Brown-Ketcham Iron Works (See Indianapolis, Ind.)
 *†Hempfield Foundry (Mine Cars, Wheels, etc.)
 *Henry & Sheffer Machine Co. (See Pittsburg Pa.)
 *†Kelly & Jones Co. (See Pittsburg Pa.)
 GREENVILLE—*†Hodge Mfg. Co. (Iron Fdrs. & Machinists)
 GROVE CITY—†Bessemer Foundry Co. (Grey Iron Castings)
 *†Bessemer Gas Engine Co. (Gas & Gasoline Engines)
 *Carrouthers-Fithian Clutch Co. (Clutches, etc.)
 †Imperial Co.
 *Smith, F. S. (Machinist)
 *Stevenson & Crocker
 GROVETON—*†Lewis Foundry & Machine Co.
 HAMBURG—*Confer, Smith & Co.
 *†Keiser, Francis (Radiators, etc.)
 *†Lose, Saml. A. & Son (Plows, etc.)
 †Nelma & Saul
 *Snell & Meharg (Machinists)
 *†Fitz Water Wheel Co. (Water Wheels)
 HANOVER—*Binglety, John J.
 *Flickinger Bros.
 *Flickinger, John D.
 *Hanover Plow Handle Co.
 †Hanover Union Steel Casting Co. (Steel Castings)
 †Helndel Foundry Co. (Machy)
 *Heindel Mfg. Co. (Machy)
 HARMONY—†Flowers, A. U.
 HARRISBURG—*†Boll Bros. Mfg. Co. (Iron & Brass Bedsteads)
 *†Cooper, E. N. & Co. (Book Typewriters & Billing Machines)
 *Elliott-Fisher Co. (Book Typewriters & Billing Machines)
 *†Harrisburg Foundry & Mach. Works (Steam Engines, etc.)
 *Harrisburg Iron Co.
 *†Harrisburg Mfg. & Boller Co.
 *Harrisburg Pipe & Pipe Bending Co. (Pipe & Coll)
 *Harrisburg Roll Grinding & Corrugating Co.
 *†Hickok, W. O. Mfg. Co. (Bookbinders' Machy, Iron & Brass Fdrs., Sash Weights, etc.)
 †Lance & Grosjean Mfg. Co. (See New York City)
 *McKillicks, Alexander
 HAZLETON—*Anthraxite Separator Co.
 *Harleigh Iron Works
 *†Hazleton Iron Works Co. (Fdrs. & Machinists)
 *†Jeansville Iron Work Co. (Steam Pumps, etc.)
 *Schmauch, Henry (Machinist)
 HITES—†Long, Jas. A. & Co. (Machy)
 †Yost Bros.
 HOLLIDAYSBURG—*†McLanahan Stone Machine Co. (Iron Fdrs. & Stone Working Machy, etc.)
 HOMER CITY—*Nix Machine Works (Machinists, etc.)
 HOMESTEAD—*†Carnegie Steel Co. (Fdry Dept.) (See Pittsburg)
 *Homestead Ornamental Iron Works
 *†Homestead Valve Mfg. Co. (Valves & Steam Goods, Iron & Brass Fdrs.)
 *Lawson Mfg. Co. (Gas Burners & Water Heaters)
 *†Mesta Machine Co. (Rolling Mill Machy & Castings, etc.) (See Pittsburg)
 HONESDALE—*Charlesworth & Canivan
 *Gibbs, Chas. E.
 *†National Elevator & Machine Co. (Elevators, etc.)
 HOOVERVILLE—*Crissey, Elias (Fdry, etc.)
 HOPEWELL—†Simon Bros. (Iron Fdry.)
 HUGHESVILLE—*†Snowden Bros. (Iron Fdrs. & Machinists)
 HUNTINGDON—†Gerloch, H. W.
 HYDE PARK—*†Hyde Park Fdry. & Mach. Co. (Rolling Mill Machy. & Castings)
 IDLEWOOD—*†Snodgrass Mfg. Co. (Gas Stoves, etc.)
 INDIANA—†Clymer Mfg. Co. (Tuyere Irons, etc.)
 †Indiana Foundry Co. (Iron Fdrs. & Feed Cutters, etc.)

IRVONA—*†Central Foundry & Car Co. (Iron Fdrs. & Cars, etc.)
 IRWIN—*†Irwin Foundry & Mine Car Co.
 *Penn Electrical & Mfg. Co.
 IVYLAND—*Hobensack Bros.
 JEANNETTE—*†Clifford-Cappell Fan Co.
 *†Greensburg Foundry & Machine Co.
 *Jeannette Machine Co.
 *†Pittsburg Lamp, Brass & Glass Co. (See Pittsburg, Pa.)
 JERSEY SHORE—*§American Balance Valve Co.
 *†Trump, F. & E. (Iron Fdrs. & Machinists)
 JOHNSONBURG—*†Johnsonhurg Machine Co.
 JOHNSTOWN—*†Camhria Steel Co. (Founders, Machinists & Steel Mfrs.) (See Phila., Pa.)
 *†Century Stove & Mfg. Co. (Stoves, etc.)
 *†Globe Iron & Foundry Co.
 *†Loraln Steel Co. (Railroad Supplies, etc.) (See Phila., Pa.)
 *†National Radiator Co. (Radiators, etc.)
 *Smith, W. E. (Machinist)
 KANE—*Kane Supply Co. (Machinists)
 *Unltd Saw Mfg. Co. (Saws & Saw Teeth)
 KENNETT SQUARE—*†American Road Machine Co. (Road Making Machy, etc.)
 *Good Roads Machinery Co. (Road Making)
 *Gregg & Larkin (Machy)
 *†Kennett Foundry & Machine Co.
 KIMBERTON—*†Snyder, Wm. R.
 KINGSTON—*Adder Machine Co. (Adding Machines)
 KITTANNING—*Hoe, P. J. (Chines)
 †Kittanning Plate Glass Co. (Fdry. Dept.)
 *McCullough, Jas., Jr. (Iron Fdry., etc.)
 *Pittsburg Writing Machine Co. (Type-writers, etc.)
 KNOX—*Corlett & Co. (Machinists)
 KUTZTOWN—*†Kutztown Fdry. & Machine Co.
 LACEYVILLE—Edwards Mfg. Co. (Log Turners, etc.)
 *Vandervort, John
 LANCASTER—*Anderson, Thos. A.
 *†Barry & Zecher Co.
 *†Blickenderfer, Richard (Turbine Water Wheels & Grey Iron Castings)
 *Bowman's, Ezra F. Sons (Watchmakers' Tools, etc.)
 *Calder, Geo. H. (Emery Wheel Dressers)
 †Carbon Steel Casting Co.
 *Central Machine Works (Engines, etc.)
 *†Champion Blower & Forge Co. (Iron Fdrs., Blowers, Portable Forges, etc.)
 *Dellinger, A. M. (Machines)
 *Fidelity Electric Co. (Electric Motors & Fans)
 *§Fram, Edw. T. Lock Co. (Locks, etc.)
 *Hamilton Watch Co. (Watches, etc.)
 *Herr, O. E.
 *†Huhley Mfg. Co. (Cast Iron Toys & Grey Iron & Brass Castings, etc.)
 †Independent Foundry Co. (Cast Iron Soil Pipe)
 *Koch, Alfred S. (Jewelers' Tools, etc.)
 *Kreider Machine Co. (Machinists)
 *†Lancaster Machine & Structural Works (of Camden, N J)
 *Lancaster Peerless Emery Wheel Co. (Emery Wheels & Grinders, etc.)
 *Landis, Levi K. (Machinist)
 *†Martin, Henry Brick Machine Mfg. Co. (Brick Machy, etc.)
 *†Martin, Wm. R. (Cement Machy, etc.)
 *§Miller, J. Walter (Brass Fdry. & Finishers & Hdwe. Mfrs.)
 *Nolty & Co. (Locomotive Sanders)
 *Potts, D. H. (Portable Forges, etc.)
 *Rote, A. B. & Co. (Bldrs. Iron Work, etc.)
 *Royal Mfg. Co. (Hand Power Machinery, etc.)
 *§Safe Padlock & Hardware Co. (Shelf Hdwe. & Brass Castings)
 *†§Slaymaker, S. R. (Car, Ship & Builders' Hardware, etc.)
 *Stehman & Swan Mfg. Co. (Watchmakers' Tools, etc.)
 *Vondersmith, Henry M.
 *Welch, Albert C. (Elevators, etc.)
 LANDISVILLE—*Minnich Machine Works (Ball Presses, etc.)
 *†Monitor Steam Generator Mfg. Co. (Heating Apparatus & Castings)
 LANESBORO—*†Barnes Mfg. Co. (Machinists, etc.)
 LANSDALE—*†Cox, Abram Stove Co. (Stoves, etc.) (See Phila., Pa.)
 *†§Heebner & Sons (Agl. Impls., Grey Iron & Brass Castings)
 †Krupp Foundry Co. (Iron Fdrs., etc.)
 †Specialty Mfg. Co. (Door Knobs, etc.)
 LANDSDOWNE—†Cruchle Steel Casting Co.
 *Foulds Spinning & Winding Machine Co.
 LATROBE—*†Gilligan, Jno. (Iron Fdry. & Machinist)

LEBANON—*†American Iron & Steel Mfg. Co.
 †Buchanan Foundry Co. (Iron Fdrs.)
 *Fry, Edward G.
 *†Lebanon Chain Works (Chains & Rolling Mills, Iron & Steel)
 *†Lebanon Stove Co. (Stoves)
 *Louden Machine Works.
 *†North Lebanon Foundry Co.
 *Novelty Machine & Repair Shop.
 *Parthemore, J.
 *†Treadwell, M. H. & Co.
 *Union Boiler & Mfg. Co.
 *†Welmer Machine Works Co. (Rolling Mill & Blast Furnace Machinery, etc.)
 *Yeagley, Franklin C.
 LEETSDALE—*Tate, Jones & Co.
 LEIGHTON—†Crescent Stove & Mfg. Co. (Stoves, etc.)
 †Lehigh Stove & Mfg. Co. (Stoves, etc.)
 LEMOYNE—*Lemoine Bicycle & Machine Co.
 LEOLA—*Leola Machine Co.
 LEONA—Ely, E. C. Co. (Hdwe. Specialties, etc.)
 LERAYSVILLE—*†Bailey, E. Martin (Iron Fdry. & Plows, etc.)
 LEWISBURG—†New Central Foundry Co.
 LEWISTOWN—*†Lewistown Fdry. & Machine Company
 *Mann, Jas. H. (Est. of) (Tools, Axes, etc.)
 *Mann Edge Tool Co. (Edge Tools, Axes, etc.)
 *†Mount Rock Foundry & Machine Co.
 LIMESTONEVILLE—*Gibson, H. W.
 LINDSEY—*†Porter, G. W. & Son
 LINESVILLE—*Van Slyke, F. J.
 LINFIELD—†Mitchell & Van Meter (Cast Iron Soil Pipe, etc.)
 LITTLE OLEY—†Colebrookdale Iron Co.
 LOCKHAVEN—†Novelty Iron Works
 LOCUST VALLEY—*Morey, Eugene A.
 LUZERNE—*†Luzerne Mfg. Co. (Mine Drills, etc.)
 Snyder, J. T. (Mine Drills, etc.)
 McDONALD—*Rank, H. W. (Oil & Gas Well Machy)
 *Tillinghast, B. D. (Machinist)
 McEWENSVILLE—†Gearhart, C. & Bro.
 McKEESPORT—†Fort Pitt Steel Casting Co. (Steel Castings)
 *†Monongahela & Yough Foundry Co.
 *†National Tube Co. (Fdry. Dept.) (See Pittsburg)
 †Sheermesser, H. (Iron Fdry.)
 *Smith, Nimmo & Co. (Ornamental Iron Work)
 *Tube City Engineering & Machine Co.
 McKEES ROCKS—*†Central Car Wheel Co. (Car Wheels, etc.) (See Pittsburg, Pa.)
 †Fort Pitt Malleable Iron Co.
 *Fort Pitt Spring & Mfg. Co. (See Pittsburg, Pa.)
 *McKay, Jas. Co. (Chains, etc.) (See Pittsburg)
 *†Penna. Malleable Co. (See Pittsburg)
 †Pittsburg Pipe & Iron Co.
 *†Pressed Steel Car Co. (See Pittsburg)
 *Schoen Steel Wheel Co. (Steel Wheels)
 *Schultz Bridge & Iron Works
 *†Taylor-Wilson Mfg. Co. (Iron Founders, Pipe, Mill & Special Machy., Machine Moulded Gears, etc.)
 McVEYTOWN—†Stine, Sam'l R.
 MACUNGIE—*§Macungie Brass & Mfg. Co.
 †Miller & Rauch
 *§Neumeyer Bros. (Brass Fdry. & Nozzles & Couplings)
 MAHANAY CITY—*†Grant Iron Works (Steam Engines & Pumps, Car Wheels, etc.)
 MANHEIM—*†Bond Fdry. & Mach. Co. (Power Transmitting Machinery)
 *†Hershey Machine & Foundry Co.
 *Peters, Henry D.
 MARIETTA—†Marietta Casting Co. (Iron Fdrs)
 *Marietta Hollow Ware & Enamelling Co.
 *Pennsylvania Electric Co. (Fans, Motors, etc.)
 MARS—*Sheridan, Jno. J. & Co. (Machinists & Drilling Tools)
 MARTINSBURG—†Martinsburg Fdry. Co.
 MAUCH CHUNK—*†Stroh, W. H., Est. of (Mining Machy. & Castings)
 MEADVILLE—*Barrett Machine Tools Co. (Machine Tools, etc.)
 *Champion Tool Co. (Blacksmiths' Tools)
 *†Curry & Co. (Sewer, Street & Building Castings, etc.)
 *Dowdell, H. (Machinist)
 *Lord, L. L. Co. (Machinists)
 *McNair, M. H. (Machinist)
 †Meadville Malleable Iron Co. (R. R. & other Castings)
 *Munhall Mfg. Co. (Machinists)
 *†Phoenix Iron Works Co. (Steam Engines, etc.)
 *Uwanta Wrench Co. (Wrenches, etc.)

MECHANICSBURG—†Comstock, Geo. S. (Mill, Mining & Farm Machinery)
 *Potts Mfg. Co. (Machinists, etc.)
 *Wilcox, D. Mfg. Co. (Carriage Hdw., etc.)
 MEDIA—*Wood, Wm. H. (Special Machy., etc.)
 MERCER—†Reznor Mfg. Co. (Gas Stoves, etc.)
 MEYERSDALE—†Boucher, Milton H. (Iron Founder)
 *Miller, M. D. (Gasoline Engines, etc.)
 *Miller, Wm. S. (Machinist)
 MIDDLETOWN—†King Lawson Car Co. (Cars)
 *†Middletown Car Works (Cars & Castings)
 †Raymond Mfg. Co. (Stoves, etc.)
 MIFFLINBURG—†Albright, Jas. H. & Sons (Agrl. Impls., Cultivators, Harrows, Rakes, etc.)
 MIFFLINTOWN—*Bartley Mfg. Co. (Ice Creepers, etc.)
 MILFORD SQUARE—*Weisei, Harvey H.
 MILLERSBURG—*Brubaker, W. L. & Bros. (Stocks, Dies, Taps, etc.)
 *Lenker, Frank K. & Co. (Stave Machy, etc.)
 *Millersburg Fifth Wheel Co. (Fifth Wheels, etc.)
 *Polk, A. J. & Son (Screw Plates, Taps, Dies, Reamers, etc.)
 MILLHEIM—†Hartman, J. H. B. & Co.
 MILTON—†American Car & Foundry Co. (See St. Louis, Mo.)
 *Milton Mfg. Co. (Nuts, Washers, etc.)
 *Shimer, Saml. J. & Sons (Ettinger Cutter Heads, etc.)
 MONACA—†United States Sanitary Mfg. Co. (See Pittsburg, Pa.)
 MONESSEN—†Monessen Fdry. & Machine Co.
 *†Page Woven Wire Fence Co.
 MONONGAHELA—†Coshocton Iron Co. (Iron Castings, etc.)
 *Liggett Spring & Axle Co. (Carriage Axles & Springs, etc.) (See Pittsburg, Pa.)
 †Monongahela Casting Co.
 *†Monongahela Mfg. Co. (Iron Fdrs. & Mine Specialties)
 *†Robinson Machine Co. (Mining Machinery, Steam Engines, etc.)
 MONROETON—Loetzer Valve & Mfg. Co.
 MONT CLARE—†Hallman, Oliver (Cast Iron Pipe Fittings)
 MONTGOMERY—†American Woodworking Machinery Co. (Woodworking Machy.). See Rochester, N. Y.
 MONTROSE—†Beach, H. W. (Woodworking Machy.)
 MOSCOW—†Schwartz, Philip
 MOUNT CARMEL—†Mount Carmel Iron Works (Coal Mining Machinery, etc.)
 MOUNT JOY—†Grey Iron Casting Co. (Light & Heavy Castings)
 *Rollman Mfg. Co. (Iron Novelties)
 *Stauffer, L. N. (Gas Engines, etc.)
 MOUNT PLEASANT—*Mount Pleasant Tool Co. (Tools, etc.)
 MOUNTVILLE—†Mountville Mfg. Co. (Agl. Impls., Plows, Planters, Corn Shellers, etc.)
 MUNCY—*Guyer, Clinton (Machinist)
 *†Robinson Mfg. Co. (Flour Mill Machy.)
 *†Sprout, Waldron & Co. (Flour Mill Machy, etc.)
 MYERSTOWN—†Dubble & Zinn
 *Myers Bros. (Machinists)
 *†Painter, Jos. & Sons
 *†Stoever Fdry. & Mfg. Co. (Pipe Cutting & Threading Machines, Heavy Castings, etc.)
 NANTICOKE—*Bittenbender, W. W. & Co. (Machinists & Mine Drills)
 *Millard & Cable
 NAZARETH—Emerich, Geo. R. (Cement Machy.)
 *†Nazareth Foundry & Machine Co. (Grey Iron Castings, etc.)
 NEW BRIGHTON—†Beaver Valley Metal Co. (Brass & Bronze Fdrs., etc.)
 §Brighton Brass & Bronze Co. (Brass & Bronze Fdrs.) (See Pittsburg, Pa.)
 †Calhoun Bros.
 †Damascus Crucible Steel Casting Co.
 *Leard, W. E. (Engines, etc.)
 *Pittsburg Machine Co.
 §Riedel & Sons Mfg. Co.
 *†Standard Sanitary Mfg. Co. (See Pittsburg, Pa.)
 *Townsend, C. C. & E. P. Co. (Wire Rivets, Nails, etc.)
 NEW CASTLE—*§American Car & Ship Hardware Co. (Brass Car Trimmings & Castings)
 *§Douds, Frank C. & Co. (Steam Specialties & Brass Castings, etc.)

*New Castle Forge & Bolt Co.
 *†Penna Engineering Works (Rolling Mill Machy. & Castings)
 *†Stove & Range Co. of Pittsburg.
 *†Vulcan Foundry & Machine Co. (Rolling Mill Machy. & Castings)
 NEWHAVEN—*Connellsville Mfg. & Mine Supply Co. (See Connellsville, Pa.)
 †Long, David (Iron Fdry.)
 NEW HOLLAND—*New Holland Machine Co.
 NEW KENSINGTON—§Aluminum Cooking Utensil Co.
 NEW MILFORD—†Chapman, W. B. (Iron Fdy)
 NEW OXFORD—†Weaver Mfg. Co. (Feed Cutters, etc.)
 NEWPORT—†Juniata Furnace & Foundry Co. (See Phila., Pa.)
 NEWSIDE—*§Peter, F. N. & Bro. (Iron Railings, etc.)
 NEWVILLE—*Whistler, J. C.
 NORRISTOWN—†Fowler & Wolfe Mfg. Co. (Radiators). (See Phila., Pa.)
 *§Haines, Jones & Cadbury Co. (See Philadelphia, Pa.)
 *†Newbold, R. S. & Son Co. (Rolling Mill Machy. & Castings, etc.)
 *Reading Screw Co. (Screws & Specialties)
 *†Rittenhouse, C. & Sons (Tack Machy, etc.)
 *Rittenhouse, Frank (Confectioners' & Tack Machy., etc.)
 *Rittenhouse, Wm. H.
 *Rothe, O. & P. Mfg. & Supply Co. (Dyeing & Bleaching Machy.)
 *Walton & Ball
 *†§Wildman Mfg. Co. (Knitting Machines, etc.)
 NORTH EAST—*§Eureka Tempered Copper Works (Commutators, etc.)
 *†Fernald Mfg. Co. (Hardware & Harness Specialties)
 *§Pabody, Jno. D.
 NORTH GIRARD—*Federal Electric Co. (Electric Generators, Motors, etc.)
 NORTHUMBERLAND—*Keystone Forging Co. (Fifth Wheels, etc.)
 NORTH WALES—†North Wales Foundry Co. (Stoves, etc.)
 *North Wales Machine Co. (Machine Tools)
 OAKHALL STATION—†Sellers, Edward (Corn Planters, Feed Cutters & Land Rollers)
 OGONTZ—Hammond, C. & Son (Edge Tools, Hammers, Sledges, etc.)
 OIL CITY—*Boardman, Robt. Co. (Oil & Gas Well Tools, etc.)
 *Condryn, Wm. (Machinist)
 *Logan, A. W. (Engines, etc.)
 *Logan, Robt. (Engines & Oil Well Supplies)
 *†National Transit Co.
 *†Oil City Boiler Works (Steam Engines, etc.)
 *†Oil Well Supply Co. (See Pittsburg, Pa.)
 *†Reid, Jos. Gas Engine Co. (Gas Engines, etc.)
 *†Riverside Engine Co. (Gas Engines, Compressors, etc.)
 *Simon, August (Machinist)
 ORANGEVILLE—†Connor, J. W.
 OSCEOLA MILLS—*†Stine, S. B. & Son (Mine Fans, Engines, etc.)
 PALMYRA—*Stahley, Wm.
 PATTON—*Cole Bros. (Machinists)
 PEN ARGYLE—*Eilenberger & Roof
 PENN STATION—†American Fdry. & Pipe Co. (See Pittsburg, Pa.)
 *†Hockensmith Wheel & Mine Car Co.
 PERKASIE—*Kramer, Wm. K.
 PETROLEUM CENTER—*Bets, W. L.
 PETROLIA—*Rerry, O. P. (Machinist)
 PHILADELPHIA—†Adams Fdry Co. (Iron Fdrs., Builders' & Other Castings, etc.)
 960 N 9th
 *§Adams & Westlake Co., 2042 N 10th. (See Chicago, Ill.)
 *§Ajax Metal Co. (Brass Fdrs., Smelters & Bearings, etc.). 48 Richmond
 *Albro-Clem Elevator Co. (Elevators). 7th & Glenwood av
 *Allen, Aionzo W. (Machinist), 2423 Mascher
 *Allen, A. & Co. (Machinists), 2001 Carpenter
 *†Allen, S. L. & Co. (Agrl. Impls.), 1107 Market
 *Altamus, Jacob K. (Textile Machy.), 2824 N 4th
 *American Addograph Co. (Inc.), Phila. Bourse, Factory, Camden, N. J.
 *†American Bridge Co. of New York (Pencoyd Works), Penn. bldg.
 *†American Drying Machinery Co., 3301 N 19th

*†American Fork & Hoe Co. Ashland nr Fkd. Creek, Fkd. (See Cleveland, O.)
 *§American Gas Fixture Works, 208 N Broad
 *American Insulating Machinery Co., Oxford c N Hancock
 *American Metal Edge Box Co., 2115 S 8th
 *American Metal Works, 326 Armat, Gtn
 *§American Meter Co., 100 N 22d
 *†American Pulley Co. (Pulleys, Bushings, etc.), N 29th & Bristol
 *Atlantic Works (Inc.) (Woodworking Machinery), 28th & Gray's Ferry rd
 *Bagshaw & Field (Machine Tools), 317 Cherry
 *†Baizley, Jno. Iron Works (Builders' Iron Work & Castings), 514 S Del. av
 *†Baldwin Locomotive Works (See Burnham, Williams & Co.)
 *Barber & Furner (Machinists), 429 N Orianna
 *†Barker, Jas. (Iron Fdry., Cotton & Woolen Machy. & Gray Iron Castings). N 6th & Cayuga
 *Barnes & Erb Co. (Laundry Machy.), 3846 Lancaster av
 *Barnett, G. & H. Co. (Files, etc.), Fkd av, c Richmond
 *†§Belfield, H. & Co. (Iron & Brass Fdrs. & Malleable Iron Fittings & Steam Specialties, etc.), 435 N Broad
 *†Bellwood Mfg. Co. (Iron Fdrs. & Machinists), Penn Sq Bldg. Works, Belwood, Pa.
 †Belmont Iron Works, Real Estate Trust bldg
 *†Bement Miles Pond Co. (Builders' Iron W'k, etc.), 21st, c Callowhill
 *Barkhoitz, Jno. P. (Machinist), 321 Race
 *†Bernstein Mfg. Co. (Metallic Bedsteads, Grey Iron Castings, etc.), 3rd & Westmoreland
 §Biggin, Chas. P. Co. (Iron Fdrs. & Bldrs.' Iron Work), 1829 Harlin
 *Bligam, Hugo (Gears & Gear Cutting), 1235 Spring Garden
 *Billington, Jas. H. Co. (Textile Machy.), 113 Chestnut
 §Bircher, Geo. (Brass Fdr., etc.), 716 Cherry
 *Blessing, C. A. (Plumbing Specialties, etc.), 516 Montgomery av
 *Board, Edward, 618 Chestnut
 *Boekel, Wm. & Co. (Metal Spinning, Force & Test Pumps, etc.), 518 Vine
 *Bonney Vise & Tool Works (Inc.), 3015 Chestnut
 *Borchers, Richard C. & Co. (Textile Machinery), Womrath & Tackawanna
 *Borger, Jos. (Butchers' Tools, etc.), 2035 N 2d
 *Box, Alfred & Co. (Cranes, Hoists, etc.), 913 N Front
 *Bradford Wool Comb Co., 2630 Mascher
 *Branson Machine Co. (Textile Machy.), 506 N American
 *†Braun, Jno. & Sons (Lawn Mowers, etc.), 1615 N 23d
 *Brenner, Jos., 2d c Diamond
 *Brewer Bros. (Bldrs.' Hdw., etc.), 614 Filbert
 *†§Brill, J. G. Co. (Car Builders, etc.), S 62d & Woodland av
 *Brinton, H Co. (Knitting Machy.), 213 Race
 *Brohard Co. (Hardware Specialties, etc.), 1624 N 9th
 *†Brown, E. E. & Co. (Iron Fdrs. & Mfrs. of Sash Weights & Specialties), McKean & Meadow
 *Brown, Frank P. (Gas Fixtures & Supplies), 45 N 6th
 *Bullock, Chas. K. (Flour Mill Machy.), 1361 Ridge av
 *§Bureau Bros. (Bronze & Brass Fdrs. & Statuary, etc.), N 21st & Allegheny av
 *†Burnham, Williams & Co., 500 N Broad
 *†Butterworth, H. W. & Sons Co. (Textile Machy.), E York & Cedar
 *†Cambria Steel Co., Arcade bldg
 *†Camden Iron Works (Fdrs., Machinists & Pumping Machy.), 400 Chestnut
 *Works, Camden, N. J.
 *Campbell, P. F. (Millwright & Machinist, Steam Engines, Grinding Mills, etc.), 51 Laurel
 *Carnell, Geo. (Est. of) (Brick Machinery), 1819 N 5th
 *Carr, Jos. (Special Machy. & Optical Grinding Tools), 132 N 7th
 *Carver, C. R. Co., N 15th & Lehigh av
 *Carver File Co., 3233 Franklin av
 *§Caskey, Wm. & Son (Brass Fdrs., etc.), Beach & E Norris

*Central Machine Co. (Machinists), 732 Sansom
 *†Chambers Bros. Co. (Brick & Paper Folding Machinery, etc.), N 52d & Lancaster av
 *Champion Candy Machine Co. (Confectioners' Mach'y), 3239 N 12th
 *†Chester Steel Castings Co. (Open Hearth Steel Castings), 407 Sansom
 *Chesterman, F. E. & Co. (Metal Specialties, etc.), 127 N 7th
 *Clad, V. & Sons (Inc.) (Cooking Apparatus, French Ranges, etc.), 239 S 12th
 †Clark's Iron Foundry, Gray's Ferry av c S 35th
 *§Clay, Jno. H. (Brass Finisher & Flre Dept. Supplies, etc.), 1320 Ridge av
 *Coles Mfg. Co. (Grinding Mills, etc.), 1615 N 23d
 *Colladay, Jos. O. Co. (Woodworking Machinery), 62i Race
 *Cook, Stephen S. (Machinist), 624 Race
 *Cooper, Dyer (Machinist & Pumps), 614 N 3d
 *§Cooper, W. S. Brass Works (Brass Fdrrs. & Finishers, Plumbing Goods), 437 N 12th
 *Corliss Engine Works (Geo. Richards, Prop.) (Engines), 4041 N 5th
 *†Cox, Abram Stove Co. (Stoves & Heating Apparatus), N American c Dauphin
 *§Cox & Sons (Inc.) (Steam Engines & Pipe Cutting & Threading Machines), 215 Race. Works, Bridgeton, N. J.
 *†Cramp, Wm. & Sons Ship & Engine Building Co. (Steel Ships, Marine Engines, etc.), Beach & Ball
 *Coyle, H. B. Iron Works, 622 Filbert
 *§Crescent Phosphorized Metal Co. (Phosphor Bronze, Copper & Tin), 421 N 22d
 *†Cresson, Geo. V. Co. (Power Transmission Mach'y, etc.), 18th & Allegheny av
 *†Creswell, Saml. J. Iron Works (Inc.) (Iron Fdrrs. & Bldrs.' Iron Work), Cherry & N 23d
 *Dallett, Thos. H. Co. (Pneumatic Tools, etc.), 2303 York
 †DAVIS, RODNEY (Gears), 626 Race. (See adv. index, end of book)
 *Defiance Mfg. Co., 4153 Frankford av
 *Deissler, P. & Bro. (Machinists), 249 S 6th
 *†Devlin, Thos. Mfg. Co. (Malleable & Grey Iron & Brass Fdrrs., Malleable Iron Fittings & Carriage & Saddlery Hardware, etc.), N 3d & Lehigh av
 *Deweese, Jno. W. (Machinist), 640 Filbert
 *Diamond Textile Machine Works (Textile Machy, etc.), C, nr E Westmoreland
 *†Dienelt & Eisenhardt (Inc.) (Iron Fdrrs.' Hydraulic Jacks, Power Hammers, etc.), 1304 N Howard
 *Dietz Machine Works (Envelope, Cigarette & Match Box Machy), 126 Fontain
 *Dill, T. C. Machine Co. (Machine Tools & Slotting Machines, etc.), Somersset & Mascher
 *†Diller, Caskey & Co. (Stoves), N 6th c Berks
 *†Disston, Henry & Sons, Inc. (Saws, Tools, etc.), Tacony & N Fronte c Laurel
 †Donaldson Iron Co. (Cast Iron Pipe). Betz bldg, Works, Emaus, Pa.
 *Dunn, Robt. N., 1850 Hope
 *Earle Gear & Machine Co. (Gear Cutting Machines, etc.), Oxford & Mascher
 †Elba Iron Works, Perry bldg
 Electric Storage Battery Co. (Storage Batteries, etc.), N 19th & Allegheny av
 *Ellison Bros. (Machine Tools, etc., Scattergood, nr Eadom, Fkd
 *Energy Elevator Co. (Elevators), 411 Cherry
 *†Enterprise Mfg. Co. of Pa. (Meat Choppers, Lawn Mowers & Sprinklers, & Hdw. Specialties, etc.), N 3d & Dauphin
 *Espan-Lucas Machine Works (Machine Tools, Cold Saws, etc.), 1347 Noble
 *Evan's, Jno. Sons (Car & Carriage Spring & Leather Machy), 506 N 13th
 *§Evans, S. W. & Son (Brass Goods), 4623 Paul, Fkd
 §Excelsior Brass Works, 1517 Spring
 *§Eynon-Evans Mfg. Co. (Engineers' Specialties & Brass Composition Castings), 1509 Clearfield
 *Fairmont Engineering Works, 3207 Spg Garden
 †Fairmount Foundry Co., 2106 Wood
 *Fischer Machine Co. (Tools & Special Machy), 1217 Race

*†Flagg, Stanley G. & Co. (Iron & Steel Fdrrs., Steam Pipe Fitters, etc.), 424 N 19th
 *†Florence Iron Works (Iron Fdrrs. & Machinists), 400 Chestnut. Works, Florence, N. J.
 *§Ford Bros. & Co. (Machinists & Brass Fdrrs.), 243 S Front
 *Ford & Kendig Co. (Iron Pipe, etc.), 1428 Callowhill
 *†Fowler & Wolfe Mfg. Co. (Radiators, etc.), Bourse bldg. Works, Norristown, Pa.
 *§France Packing Co., Inc. (Metallic Packing, etc.), 6512 State rd, Tac.
 *Frankford Machine Works, Hedge, cor Gillingham, Fkd
 *Frick, Horace E. Co. (Grate Bars & Castings), Real Estate Trust bldg
 §Fullerton, Frank S. (Brass Fdry. & Smelter), 438 E Girard av
 §Gaumer, John L. Co. (Bldrs. Iron Work, etc.), 22d c Wood
 *Gefrorer, C. & Son (Gas Burners & Brass Goods), 2008 S 8th
 *Genth, Chas. H. (Machinist), 247 Oxford
 *Germantown Tool Works (Tools, etc.), 57 Armat, Gtn
 *Gibson Gas Fixture Works, 1426 Callowhill
 *†Girard Iron Works (Iron Fdrrs. & Machinists, Brewers' Machy, Castings, etc.), N 22d & Master
 *Girard Machine & Tool Co. (Machy & Tools), 491 N 3d
 *Glaser Mfg. Co. (Machinists), 2733 N 6th
 *Globe Machine & Fdry. Co., Inc., Tackawana & Church, Fkd
 †Glover Bros. (Iron Founders & Hdw. Specialties), Paul & Vandyke, Fkd
 *Gray's Ferry Machine Co. (Ltd.) (Engines, Special Machy, etc.), 3105 Gray's Ferry rd
 *Griffin, Jno. J. & Co. (Gas Meters, etc.), 1513 Race
 *§Griffiths, Jas. A. (Injectors, etc.), 500 N 12th
 *Grissinger Machine Works, 904 Quarry
 §Guest, Geo. (Awning Frames, etc.), 4423 Ludlow
 *§Haines, Jones & Cadbury Co. (Brass Fdrrs., Plumbers' Brass Goods & Supplies), 1136 Ridge av. Works, Norristown, Pa.
 *§Hale & Kilburn Mfg. Co. (Furniture Trimmings, etc.), 1315 Walnut
 *§Halstead & Co. (Brass Fdrrs. & Finishers), 1129 Cherry
 *Halton's, Thos. Sons (Textile Machy), E Allegheny av & C
 *Hankey, A. & Co., 1213 Race. (See Rochdale, Mass.)
 *Harman Bros. (Machinists), 1044 S Chadwick
 *Harrington, Edwin Son & Co. (Machine Tools, Chain Hoists, etc.), N 17th & Callowhill
 *†Harrison Safety Boiler Works (Feed Water Heaters, Separators, Ice Breakers, etc.), 17th below Allegheny
 *Harrison's, Wm. H. Sons (Engineers & Machinists), 1708 Ludlow
 *†§HARTMAN CO. (Valves, Tuyers, Coolers, Liquid Cider Cars, etc.), 1231 N Front. (See adv. index, end of book)
 *Harton, Pembroke D. (Bakers' Machy), 1431 Fairmount av
 *Haskell-Dawes Machine Co., Trenton & Erie avs
 *Helme & McIlhenny (Gas Meters, etc.), 1339 Cherry
 *Henderson Machine Co. (Machy. Mfrs.), 5032 Gtn. av
 *Hepworth, Jno. W. & Co. (Textile Machy), cor Mascher & Lehigh av
 *Hess-Bright Mfg. Co., 19th & Hamilton
 *Hess Machine Works, Jno. A. Hess (Machinist & File Machy), 2512 Callowhill
 *Hess & Barker (Engineers & Machinists. Tablet Machines), 605 Sansom
 *§Hey, M. Mfg. Co. (Brass Fdrrs. & Brewers' Specialties), 637 N 3d
 *§Hill, B. B. Mfg. Co. (Brass Fdrrs., Copying Presses, etc.), 1020 New Market
 §Hi-Speed Bronze Co. (Bronze & Brass Foundry), 2235 Vine
 †Hitzeroth, Christopher, 3120 Market
 *Hodson, G. & A. Pulley Depot (Pulleys, etc.), 226 Arch
 *§Homer Brass Works (Inc.) (Brass Fdrrs. & Finishers), 231 Race
 *Hood, R. H. (Worsted & Curled Hair Machinery), 1842 Gtn. av
 *†Hoopes & Townsend Co. (Bolts, Nuts, Washers, etc.), 1330 Buttonwood

*§Horn & Brannen Mfg. Co. (Inc.) (Gas Fxtures & Brass Fdrrs.), 427 N Broad
 *Horridge & Hinman (Machinists), 628 Race
 †Horrocks Iron Works (Bldrs.' Iron Wk.), 234 N Broad
 §Howell, Wm., 122 N Franklin
 *Hub Machine & Tool Co. (Metal Sawing Machines, etc.), 621 Cherry
 *Hughes & Russum (Beaming Machines, etc.), 4424 Helge
 *Hunter, Robt. & Son (Textile Machy.), Bristol & Gtn. av
 *Insinger Co. (Dish Washing Machines, etc.), Stenton av above Wayne Junc.
 *International Sprinkler Co. (Automatic Sprinklers), 517 Arch
 *Jaeger Automatic Machine Co. (Slot Machines), 2238 N 9th
 *Jesson, Jno. B. (Machinist), 208 New
 *Johnson, Israel H., Jr., Co. (Inc.) (Machine Tools & Brass Finishers' Tools), 337 N 15th
 Jones, Lewis N. (Machinist, Knitting Machinery), Media c Edgewood
 Jones, Rogers & Co. (Machinists), 327 New
 †Juniata Furnace & Foundry Co. (Iron Fdrrs.), 30 Girard av
 *Kaltenthaler, Henry J. (Machinist), 234 Cherry
 †Kappler-Fox Foundry Co. (Stoves, etc.), E York c Thompson
 *†Kensington Engine Works, Ltd. (Inc.) (Engines, etc.), Beach & E Berks
 §Keystone Brass Foundry Co. (Brass Castings), 188 Berks
 *Keystone Electrical Instrument Co. (Electric Instruments), 901 Montgomery av
 Keystone Spring Works (Carriage Springs, etc.), 500 N 13th
 *Keystone Structural Co. (Steel Structural Work), Harrison bldg
 *Kinetic Electric Co. (Dynamos & Motors), 16 S Schell
 *§Kirn, M. L. & Bro. (Brass Fdrrs.), 2138 N Leithgow
 *§Kitson Hydro-Carbon Heating & Incandescent Lighting Co. (Kitson Hydro Carbon Lamps, etc.), 1230 Callowhill
 §Klaus Chas. (Brass Fdry. & Metal Spinning), 1204 Nectarine
 *Klein, Chas. C. (Mill Engineer & Machinist), 2850 N Marshall
 †Koch & Fox (Iron Fdrrs. & Sash Weights), N 22d & Glenwood av
 Krips-Mason Machine Co. (Inc.) (Cutting & Punching Machy.), 1636 N Hutchinson
 *Kruger & Blind Co. (Machinists), 513
 *Lally, John J., 4213 Parrish Master
 *Lampe & Bartels (Machinists), 115 N Front
 *Lanston Monotype Machine Co. (Machinists), 1231 Callowhill
 *†Latrobe Steel & Coupler Co. (Steel Castings, Car Couplers, etc.), Girard bldg
 *Liberman, Isadore Mfg. Co. (Cigar Machinery), 225 S 5th
 *Liberman Mfg. Co., 812 Winter
 *Lindsay, Hyde & Co., Drexel bldg
 *†Link Belt Co. (Elevating & Conveying Mach'y), Nicetown (Main Office, Chicago, Ill.)
 *§Lonergan, J. E. & Co. (Brass Fdrrs. & Finishers & Steam Specialties), 211 Race
 *Loomis-Manning Filter Co. (Water Filters), Land Title bldg
 *Lorimer Machine Co. (Textile Machy.), Ontario & N Lawrence
 *Lovekin Pipe Expanding & Flanging Machine Co., 421 Chestnut
 *Lusse Bros. (Machinists), 819 N Lawrence
 *Lutner, Wm. (Machinist), 1603 S Front
 *Lynwood Mfg. Co., Westmoreland c N 2d
 *§McCambridge & Co. (Ltd.) (Brass Fdrrs. & Finishers & Plumbing Goods), 523 Cherry
 †McCaffrey & Farley Co., 916 Girard av
 *McCaffrey File Co. (Files, etc), N 5th c Berks
 §McHatton Smelting Co. (Brass Fdrrs. & Smelters), 1500 Wash'n av
 *McMichael, Abner (Machinist), 22 Armat, Gtn
 *McNiece, Wm. & Son (Saws, etc.), 515 Cherry
 *Malignen, P. A. (Filter Mfrs.), 52 N 13th
 *Maris Bros. (Cranes & Hoists, etc.), S 56th & Gray's av
 *Marshall, James F. (Engineer & Machinist), 4256 Regent
 *Mayall, Lewis A. (Machinist), 803 Locust
 *Mayo, Geo. D. Machine Co. (Textile Machinery), 56 N 6th

*Mayo Knitting Machine & Needle Co., 56
 *Meehan, F. E., 609 Commerce N 6th
 †Meerbach & Schneider (Iron Founders,
 Machy. Castings, etc.), 1612 Vandike,
 Fkd.
 §Melzer, Saml. (Brass Fdry.), 205 Quarry
 *Mercury Machine Co. (Inc.) (Engines,
 Steam, Gas Engines, etc.), 1325 Olive
 §Metal Art Co., N 10th & Susquehanna
 av
 *†Midland Metal Co. (Inc.) (Ornamental
 Brass & Bronze Work & Castings), 1427
 Catherine
 *§Miller Lock Co. (Locks, etc.), 4523 Ta-
 cony
 *§Mills, Thos. & Bro. (Inc.) (Brass Fdrs.
 & Confectioners' Mach'y), 1301 N 8th
 *Mitchell, J. Henry (Bakers' Mach'y), 823
 N 13th
 *Mitchell, John (Millwright, Machinist &
 Bldrs.' Iron Work), 2224 Vine
 *†Moore & White Co. (Iron Fdrs. & Machin-
 ists, Paper & Pulp Mill Machy., etc.),
 N 15th & Lehigh av
 *†Morris, I. P. Co. (Engines, Pumps, Tur-
 bines, Castings, etc.), Beach & Ball
 *Morris, P. H. & A. S. (Machinists, Spec-
 ial & Hydraulic Machy.), Dickinson c
 Front
 *†MORSE, WILLIAMS & CO. (Eleva-
 tors, Worm Gears, etc.), West End
 Trust bldg. (See adv. index, end of
 book)
 *§Mousley, Chas. & Sons (Brass & Bronze
 Castings & Ship & Car Hardware
 Mfrs.), 457 N 12th
 *Mumford, E. H. Co., 17th & Callowhill
 *Murset, Fred'k A. (Models & Experimental
 Work), 830 Race
 *§Nacke, A. & Son (Brass Fdrs., Machinists
 & Special Machy.), 236 S 9th
 *National Automatic Knitter Co. (Inc.)
 (Textile Machy., Knitting Machines, etc.),
 728 Cherry
 *National Metal Edge Box Co. (Metal
 Edge Box Machines), 8th & Willow
 *National Specialty Mfg. Co. (Drug Mills,
 etc.), N 3d & Lehigh av
 *†Naylor, John S. (Engineer & Iron Fdry.),
 N Front & Girard av
 *Nazel Engineering & Machine Works (Ma-
 chinists & Machine Tools, etc.), 1046
 Ridge av
 *†Neafie & Levy Ship & Engine Building Co.
 (Steel Ships, Marine Engines, etc.), 1336
 Beach
 §Newell Brass Mfg. Co., 443 N Broad
 *†Newton Machine Tool Works (Inc.) (Ma-
 chine Tools), 2347 Vine
 *†Niles-Bement-Pond Co. (Machinists & Ma-
 chine Tools), Mifflin, c Meadow. (See
 New York City)
 §North American Smelting Co., N 9th &
 Thompson
 *§North Bros. Mfg. Co. (Brass & Iron Fdrs.
 Hardware & Specialties), Lehigh av c
 N American
 *North Penn Iron Co. (Cranes, etc.), N 3d
 c Venango
 *Northern Machine Works, 2008 N Leith-
 row
 *Novelty Electric Co. (Electric Specialties),
 50 N 4th
 *Nye & Tredick Co. (Textile Mach'y), 606
 Arch
 *O'Neill Elevator Co. (Elevators), 628
 Cherry
 *§Oat, Jos. & Sons (Sugar Machy. & Cop-
 persmiths), 232 Quarry
 *OLDHAM, GEO. & SON (Pneu-
 matic Tools), Fkd. (See adv. index, end
 of book)
 *Oliver, J. H. & Co., 1414 S Penn Sq
 *Olsen Tinius & Co. (Testing & Hydraulic
 Mach'y), 500 N 12th
 *Orum, Morris L. (Machinist), 503 N 11th
 *§Ott, Geo. F. (Iron & Brass Works), 209
 Buttonwood
 *†Otto Gas Engine Works (Gas Engines),
 S 33d & Walnut
 *Paiste, H. T. Co. (Electrical Specialties),
 N 32d c Arch
 *Parham & Lawser (Machines, etc.), 712
 Cherry
 *Parker, Sam'l (Machinists), 49 E Rit-
 tenhouse, Gtn.
 *Parsons, Paul J., 2531 Poplar
 *Partrick, Carter & Wilkins (Electrical
 Specialties), N 22d c Wood
 *Paxton & O'Neill (Knitting Machines), 129
 Bread
 *Pearce, Geo. B. & Co. (Hosiery Mach'y,
 etc.), 2316 N 8th

*Pedrick & Smith (Machinists), German-
 town
 *Peerless Belt Lacing Machine Co. (Belt
 Lacing Machines), S Swanson & Moore
 *Penna. Forge Co. (Forges), Wakeling,
 nr Stiles, Bgd.
 *†Penna Steel Co. (Railroad Specialties &
 Steel Mfrs., etc.), Girard bldg; works,
 Steelton, Pa.
 *§Perkes, Chas. (Brass Fdr. & Plumbing
 Goods), 627 Arch
 †Perseverance Iron Foundry, Ltd. (Iron
 Fdrs.), 822 Latonia
 †Philadelphia Bronze Works, 811 Cherry
 *Philadelphia Drying Machinery Co.
 (Drying Mach'y, Fans & Presses), 6721
 Gtn. av
 *Philadelphia Electrical & Mfg. Co.
 (Electrical Specialties), 2011 Market
 *PHILADELPHIA GEAR WORKS
 (Inc.) (Gears, etc.), 7th & Cherry.
 (See adv. index, end of book)
 *†Philadelphia Hardware & Malleable Iron
 Works (Iron & Brass Fdrs., etc.), 9th &
 Jefferson
 †Philadelphia Iron Works, 1815 Shamokin
 *Philadelphia Lawn Mower Co. (Lawn Mow-
 ers, etc.), 3101 Chestnut
 *Philadelphia Machine Screw Works, 624
 Race
 *Philadelphia Novelty Mfg. Co. (Inc.)
 (Hardware Specialties, etc.), 427 N 13th
 *Philadelphia Roll Works, 212 N Darien
 *†Philadelphia Roll & Machine Co. (Rolling
 Mill Machy & Castings), 308 Walnut
 *Philadelphia Spring & Axle Works, 1439
 N Hutchinson
 *†Philadelphia Stove & Iron Foundry Co.
 (Iron Fdrs. & Stoves, Ranges & Grey
 Iron Castings), 1631 N 5th
 *Phila. Textile Machinery Co. (Textile Ma-
 chinery), N Hancock & Somerset
 *†Phoenix Iron Co. (Iron Founders & Ma-
 chinists & Steel Mfrs.), 327 Walnut. Works:
 Phoenixville, Pa.
 *§Phosphor-Bronze Smelting Co. (Brass
 Bronze & Composition Castings, etc.),
 2200 Washington av
 *Plumb, Fayette R., Inc. (Edged & R. R.
 Track Tools, etc.), Tucker & Penna. R. R.
 Fkd.
 *Power, L. & Co. (Woodworking Machy.),
 20 S 23d
 *Pressed Steel Mfg. Co. (Ball Bearings,
 Bearings, etc.), Phila. Bourse
 *†Quaker City Metallic Bedstead Co.,
 Wash'n av c S 18th
 *Quimby Engineering Co. (Machinists), 915
 Ridge av
 *Railway Steel Spring Co. (R. R. Springs,
 etc.), 1028 Newmarket. (See New York
 City)
 §Reeves, Paul S. & Son (Brass & Composi-
 tion Castings & Bearings, etc.), 1415
 Catharine
 *Rehfuß, George & Sons, 1311 S Carlisle
 *Reid, A. H. Creamery & Dairy Supply
 Co. (Creamery Mach'y, etc.), 30th &
 *Reid, Robert, 71 Laurel Market
 Remington & Sherman Co., 636 Richmond.
 (See New York City)
 *§Reyburn-Hunter & Co. (Lightning Rods,
 etc.), 494 N American
 *Rich, J. & G. (Machinists), 120 N 6th
 *Richards Bros. (Machinists), 4365 Main,
 Manyunk
 *Riehl, H. & Son (Machinists), 1130 N Ori-
 anna
 *†Riehle Bros. Testing Machine Co. (Ma-
 chinists, Testing Machines, Jacks, Presses,
 etc.), 1424 N 9th
 *§Roberts Mfg. Co. (Inc.) (Germ Proof Wa-
 ter Filters & Brass Goods), 3015 Chestnut
 †Robson, Chas. (Iron Fdry., Grate Bars &
 Castings), 8th & Washington av
 †Rohrman, Theo. B., 30th & Chestnut
 §Rosenthal's, Jos. Sons (Brass Fdrs., etc.),
 *Roth, Gottlieb, 602 Beach 188 Berks
 *Rowan, H'y A., jr. (Machinist), 1205
 Sansom
 *Rudolph, Wm. F. (Machinist), 302 N
 Broad
 *Ruffner & Son (Boiler Flue Cleaners, Nut
 Locks, etc.), Bowman, nr Cresson Falls
 *Rumsey Electrical Mfrs. Co. (Electrical
 Specialties), 1211 Filbert
 *Rutschman, Oscar F. (Machinists' & Hand
 Drills, etc.), 426 Berks
 *Ruwell, Wm. F. (Machinist), 719 Noble
 *§Savill, Thos. & Sons (Brass Fdry. &
 Finisher, Plumbing Goods), 320 N 11th
 §Schaefer, Emil (Brass Fdr. & Copper-
 smith), 1322 N 5th
 *Schaffer, Gustavus F., 310 Master

*†Schaum & Uhlinger (Textile Mach'y,
 Looms, Iron Fdrs., etc.), North Penn
 Junction
 *Schiller, Fred'k & Co., 323 N 3d
 *Schiller & Co., 5th & Locust
 §Schoenewald, Robert, 1027 Ridge av
 *†Schofield, Wm. Co. (Iron Fdrs. & Textile
 Mach'y), Kram's av nr Silverwood, Mana-
 yunk
 *Schramm, Christian D., 219 N Front
 *Schutte & Koerting Co. (Steam Special-
 ties), 1251 N 12th
 *Scott & Williams (Knitting Mach'y), 2079
 E Cumberland
 †Scullin, Simon (Iron Fdry.), 2900 N Ameri-
 can
 *Seifert, Chas H. (Machinist), 158 York
 *†Sellers, Wm. & Co., Inc. (Machine Tools
 & Heavy Mach'y), 1600 Hamilton
 §Sheeler-Hemsher Co. (Brass Fdrs.), 811
 Fairmount av
 *†Sheppard, Isaac A. & Co. (Stoves,
 Ranges & Furnaces), 4th, cor Mont-
 gomery av
 §Shimer, H. M. & Co. (Smelters, etc.), S
 19th & Wash'n av
 †Shuster Foundry Co. (Iron Fdrs., Cast Iron
 Pipe & Plumbers' Castings, etc.), 411 N
 Franklin
 *Smith-Drum & Co., 2503 Coral
 *Smith, Wm. G. & Co. (Air Rifles, etc.),
 1429 N 21st
 Smith & Furbush Machine Co. (Textile
 Machy.), Hancock & Somerset
 *Snediker, Jas. F., 139 N 7th
 †Sobers, Jacob (Iron Fdry.), 1114 Gtn. av
 *†Southwark Foundry & Machine Co. (En-
 gines, Rolling Mill Mach'y, etc.), 430
 Washington av
 *Sprague, Wm. & Co. (Machinists), 628 Fil-
 bert
 *Standard Elevator Co., 3107 Chestnut
 *Standard Machine Co., Inc. (Textile Ma-
 chinery), 508 Ludlow
 *Standard Roller-Bearing Co. (Ball &
 Roller Bearings, Hangers, etc.), N 48th
 & Girard av
 *†Standard Steel Works (Steel Castings,
 etc.), Harrison bldg
 *Standring, Sam'l, 1807 E Boston
 *Stanton & Lewis (Textile Machy.), 316
 Florist
 *†Sterlingworth Railway Supply Co. (Fdrs.
 & Machinists & Railroad Supplies), North
 American bldg; works, Easton, Pa.
 †Steward & Stevens (Iron Fdrs., Bldrs.'
 Iron Works), 901 Montgomery av
 *Stiffel & Freeman (Safes, etc.), 723
 Chestnut
 *Stokes, F. J. Machine Co. (Tablet Ma-
 chines, etc.), 9th & Thompson
 *†Stokes & Parrish Elevator Co. (Elevators),
 1228 Race
 *†Stokes & Smith Co. (Box Mach'y), 1011
 Diamond
 *Stortz, John T. & Son (Tools, Dies,
 Punches, etc.), 210 Vine
 *Stow Flexible Shaft Co., Buttonwood c
 N 26th
 *†Straub, A. W. Co. (Grinding Mach'y,
 etc.), 3737 Filbert
 *Sugar Apparatus Mfg. Co. (Sugar Machy.),
 326 Chestnut
 *Sulzer & Co. (Gas Fixtures, etc.), 821
 Cherry
 §Sutterly, G. T. & Co. (Silverplated Ware
 & Brass Goods), 38 N 6th
 *Sweigard, Jos. L. & Co. (Pneumatic &
 Pump Mach'y), Betz bldg
 *Tabor Mfg. Co. (Fdry. Molding Machines,
 etc.), 18th & Hamilton
 †Taony Iron Co., 713 Chestnut
 *§Talmage & Weidley (Brass Fdrs.), 230 N
 15th
 *†Thomas-Roberts-Stevenson Co. (Stoves,
 etc.), McKean c S 3d
 *Thompson Bros. (Machinists), 112 Bread
 *†Thompson, J. & Co. (Iron Fdrs. & Ma-
 chinists, Valves, Fire Hydrants & Cast-
 ings, etc.), Van Horn & Sophia
 *Thompson, Jas. (Textile Machy.), 4729
 Umbria
 *Tilghman-Brooksbank Sand Blast Co. (Sand
 Blast Machinery, etc.), 1126 S 11th
 †Tioga Foundry Co. (Loam, Green & Dry
 Sand, Mach'y & R. R. Castings, etc.), N
 22d & Allegheny av
 †Tioga Steel & Iron Co. (Iron Fdrs., Iron &
 Steel Forgings), 52d & Gray's av
 *Troemer, Henry (Scales, etc.)
 *§Uco Brass Mfg. Co. (Inc.), (Plumbers'
 Brass Goods), 2436 Brown
 *Underwood, H. B. & Co. (Cylinder Bor-
 ing Bars, etc.), 1025 Hamilton

*United States Metallic Packing Co. (Metallic Packing, etc.), 427 N 13th
 *†United States Navy Yard, League Island
 §United States Smelting Works (Smelters, etc.), 1615 Spring Garden
 *Universal Machine Works, 1060 Gtn. av
 *Walker, Dwight F. (Woodworking Mach'y), 59 Laurel
 *Walker Electric Co. (Electric Switches, etc.), 2318 Noble
 *Walker, Thos. & Sons, 4617 Tacony, Fkd
 *Walters, Geo. C., 1316 Ellsworth
 *Walton, P. M. (Machinist & Millwright), 1025 Gtn. av
 §Waters, D. A. Co., 1514 Hamilton
 *Watson & McDaniel Co. (Steam Traps, Valves, etc.), 146 N 7th
 *Watts & Stern (Electrical Machinists), 1303 Buttonwood
 †Wayne Iron Works, Arcade bldg
 *Wenzell, S. S. Machine Co. (Bottle Working Mach'y, etc.), 443 N 12th
 *†Wharton, Wm. Jr. & Co., Inc. (Street Railway Specialties & Castings), Wash'n av c S 25th. Works, Jenkinstown, Pa.
 *§Wheeler, C. H. Mfg. Co. (Steam Pumps, etc.), Lehigh & N 18th
 §White & Bro. (Brass Fdrs. & Smelters), 1504 E Wilt
 *Whitecar's, Joseph, Iron Works, 10 Pine
 *†Wilbraham-Green Blower Co. (Rotary Blowers, Iron Fdrs., etc.), 2518 Fkd. av
 *†Williamson Bros. Co., Inc. (Steering Gears, Hoisting Engines & Castings, etc.), Aramingo, cor Cumberland
 *Wirt Electric Co. (Electrical Specialties), 3108 Gtn av
 *Withington, Ralph (Machinist), Oxford & N Hancock
 §Wonderly, Abner H., 621 Commerce
 *†Wood, R. D. & Co. (Cast Iron Pipe, Hydraulic & Gas Works Machy., etc.), 400 Chestnut
 *Wootten & Peckwith (Machinists, 205 Quarry
 *§Wright Mfg. Co. (Brass Fdrs. & Finishers), 133 Master
 *Yockel, Chas. & Sons (Machinists, Moulds, etc.), 1220 N Lawrence
 *†Yocom, Jas. & Son (Shafting), 145 N 2d
 *Young & Weinmann, 2642 Mascor
PHILLIPSBURG—*†Gowland Mfg. Co.
PHOENIXVILLE—*Logan Boiler & Machine
 †Madco Foundry Co. (Ltd.), Company
 *†Phoenix Iron Co. (Iron Fdrs. & Machinists & Rolling Mill & Steel Mfrs.) See Phila, Pa.
PILLOW—*†Snyder, Frank (Iron Fdry. & Machinist)
PITTSBURG—†Adams, S. Jarvis Co. (Axle Boxes, Brake Shoes & Iron Fdry.), 14th & Etna
 *Adler, H. Co., Inc. (Gas Stoves, Ranges, etc.), Carnegie
ABENDROTH & ROOT MFG. CO., Diamond Bank bldg. (See Newburgh, N. Y.)
 *†American Bridge Co., Frick bldg
 *†American Foundry & Construction Co. (Rolling Mill Machy. & Castings, etc.), 4716 2d av
 †American Foundry & Pipe Co. (Cast Iron Soil Pipe & Fittings), Park bldg. Works, Penn Station, Pa.
 *†American Furnace & Machine Co., 209 9th
 *†American Locomotive Co., 2101 Beaver av. (See New York City.)
 †American Sewer Pipe Co., Bessemer bldg
 American Steel Foundries (Steel Castings), 36th & A. V. Railway
 *†American Steel & Wire Co. (See Chicago, Ill.)
 *†Anderson-Darragh Co. (Steam Heaters, etc.), 3206 Penn av
 *Auto Repair Co., 559 7th av
 †Avonmore Cast Steel Co. (Steel Castings), Works: Avondale, Pa.
 *Axthelm Mfg. Co., 243 3d av
 *†Bailey-Farrell Mfg. Co. (Brass Fdrs. & Plumbers' Supplies), 3d av & Ross
 *Bair & Gazzam Mfg. Co. (Engineers & Machinists' Special Mach'y, Gears, Racks, etc.), 29th & Smallman
 *†Baird Machinery Co. (Mach'y), 123 Water
 *†Best Mfg. Co. (Iron & Brass Fdrs. & Steam & Rolling Mill Specialties), 25th & A. V. Ry
 §Bingaman-Savage Brass Co., 434 2d av
 *§Bonar, James & Co. (Steam Appliances, Machinists & Brass Fdrs.), Frick bldg
 *Buechele & Davis (Tools, etc.), 4127 Liberty
 †Byers, A. M. Co., 235 Water
 *§Cadman, A. W. Mfg. Co. (Brass Fdrs. & Finishers), 2814 Smallman

*†Carnegie Steel Co., Carnegie bldg
 *†Central Car Wheel Co. (Car Wheels), Farmers' Bank bldg. Works, McKees Rocks, Pa.
 *§Chaplin-Fulton Mfg. Co. (Brass & Bell Fdrs., Gas Regulators, Ejectors, Injectors, etc.), 28 Penn av
 †Combination Engine Co. (Steam Engines), 3148 Penn av
 *Crescent Electric & Mfg. Co., 24th & Spring av
 *†Dilworth, Porter & Co. (Railroad Supplies), 313 6th av
 †Dnquesne Steel Foundry Co. (Steel Castings), Arrott bldg; works, Corapolis, Pa.
 †Early, W. J. & Sons, Ltd. (Grey Iron Castings), 804 Sarah
 *†§Epping-Carpenter Co. (Pumping Mach'y & Condensers), 41st & A. V. Ry.
 *Equitable Meter Co. (Meters & Regulators), 439 Water
FAWCUS MACHINE CO. (Gears of All Kinds & Special Mach'y), 2820 Smallman (See adv. index, end of book)
 †Fort Pitt Forge Co., 26th & Liberty av
 *†Garrison, A. Foundry Co. (Rolling Mill Mach'y & Castings, etc.), S 9th & Bingham
 *Gazzam, H. P. Machine Co., 32d & Penn av
 *Gem Mfg. Co. (Flexible Shafts, Boiler Tube Cleaners, Drills, etc.), Spruce nr 33d
 *Globe Mfg. & Supply Co. (Steam Specialties), Liberty & 24th
 *†Goodman Engine & Machine Co. (Engines & Mach'y), S 15th & Murliel
 *Gracey, R. & Sons Co., 105 1st av
 *Heppenstall Forge & Knife Co. (Shear Knives, etc.), 47th & Hatfield
 *†Heyl & Patterson (Rolling & Coal Mining Mach'y, Castings & Equipments, etc.), 51 Water
 *†Hogg, Geo. A. Iron & Steel Foundry Co. (Rolling Mill Mach'y, Iron & Steel Castings), 24th & A. V. Ry.
 *§Hydraulic Machine Co. (Machinists), McCandless av & A. V. Ry.
 §Iron City Brass Foundry Co. (Brass Fdrs.), 5315 Butler
 *†Iron City Sanitary Mfg. Co. (Plumbers' Cast Iron Enameled Ware), 18 Wood
 *Iron City Tool Works, Ltd. (Machine Tools), 32d & Smallman
 †Jelley, Geo. A. Foundry Co. (Iron Fdrs.), 2839 Smallman
 *†Jones & Laughlin Steel Co. (Power Transmitting Mach'y, etc.), 3d av Try
 †Kelly, Nicholas & Son (Founders), 1708 Wharton
 *†§Kelly & Jones Co. (Iron & Brass Fdrs., Steam Specialties, Valves, etc.), 135 Water; works, Greensburg, Pa.
 §Keystone Bronze Co. (Brass & Bronze Castings), 38th & A. V. Ry.
 †Lathwood, Jas. (Iron Fdry.), 22d & Smallman
 *§Lawrenceville Bronze Co. (Brass Fdrs. & Bearings, etc.), 31st & Penn av
 *†Lewis Foundry & Machine Co. (Sand & Chilled Rolls & Rolling Mill Mach'y), Groveton
 *McClintic-Marshall Construction Co. (Steel Structures, etc.)
 †M'Conway & Torley Co. (Malleable Iron & Steel Castings & Railroad Specialties, etc.), 48th & A. V. Ry.
 *§McKenna Bros. Brass Co. (Brass Fdrs. & Finishers), 1st av & Ross
 *†Mackintosh, Hemphill & Co. (Rolling Mill & Blast Furnace Mach'y, Engines, Iron, Steel & Brass Castings, etc.), ft. of 12th
 *Marshall Bros. (Elevators, etc.), S 21st & Mary
 †Marshall Foundry Co. (Iron Fdrs., Rolling Mill & Builders' Castings, Ingot Molds, etc.), 28th & Railroad
 *†Mesta Machine Co. (Rolling Mill Mach'y, Iron & Steel Castings), Lewis blk.; works, Homestead, Pa.
 *†Milholland, J. & J. B. Co. (Engines, etc.), Tunnel & 5th av
 *†Munroe, R. & Sons Corporation (Boiler Castings & Boiler Mfrs.), 23d & Smallman
 *†National Tube Co. (Wrought Iron & Steel Pipe & Tube, etc.), Frick bldg
 §Newlands Bros., 28th & A. V. R R
 *Nuttall, R. D. Co. (Gears & Pinions of all kinds, etc.), LaFayette & Garrison pl
 *†Oil Well Supply Co. (Oil & Gas Mill Supplies, Gas Engines, etc.), 215 Water

†Pennsylvania Malleable Co. (Small & Large Railroad Castings a Specialty), Farmers' Bank bldg; works, McKees Rocks, Pa.
 *Pfaller, Frank, 6947 Susquehanna Pa.
 *§Phillips Mine & Mill Supply Co. (Coke & Coal Equipments), 2227 Jane
 *†Phillips & McLaren (Heavy Castings & Rolling Mill Mach'y, etc.), 24th & Smallman
 †Phoenix Steel Const. Co., Ltd., Putnam & P. R. R.
 †Pittsburg Brake Shoe Co. (Brake Shoes, etc.)
 *§Pittsburg Brass Mfg. Co. (Plumbers' Brass Specialties & Brass & Bronze Castings, etc.), 3153 Penn av
 *Pittsburg Electrical & Machine Works (Electric Switches, etc.), 2 Barker pl
 *†Pittsburg Foundry & Machine Co. (Fdrs. & Machinists), 31st & Liberty av
 *†§Pittsburg Gage & Supply Co. (Iron & Brass Founders, Machinists & Steam Specialties)
 *†Pittsburg Industrial Iron Works (Derricks & Derrick Fittings, etc.), Westinghouse Bldg
 *Pittsburg Instrument & Machine Co., 627 Fountain
 †Pittsburg Malleable Iron Co., 34th & Smallman
 *†Pittsburg Mfg. Co. (Bending & Straightening Machines, Castings, etc.), A. V. Ry. & 28th
 *§Pittsburg Piping & Equipment Co. (Brass & Bronze Fdrs. & High Pressure Pipe Fitting, etc.), 3422 Smallman
 *†Pittsburg Plate Glass Co., Frick bldg. Foundry, Ford City, Pa.
 †Pittsburg Steel Foundry (Steel Castings & Ingots), House bldg; works, Glassport, Pa.
 Pittsburg Trolley Pole Co., 115 Water, Pittsburgh, Pa.
 *†§Pittsburg Valve, Foundry & Construction Co. (High Pressure Valves & Fittings, Iron & Brass Castings, etc.), 26th & A. V. Ry.
 *†Pittsburg Valve & Fittings Co., Frick bldg
 *†PORTER, H. K. CO. (Light Locomotives), 541 Wood. (See adv. index, end of book)
 *†Pressed Steel Car Co., Farmers Bank bldg
 *Renton, Wm., Inc. (Machinist & Engine Rebuilding, etc.), 101 Water
 *†Rees, Jas. & Sons' Co. (Steamboat Bldrs.), 18 4th
 *†Scaife Foundry & Machine Co., Ltd. (Rolling Mill Mach'y, etc.), 28th & Smallman
 *†SCAIFE, WM. B. & SONS (Iron Fdrs. & Structural Steel Construction, etc.), 221 1st av. (See adv. index, end of book)
 *†Schoen Steel Wheel Co. (Steel Car Wheels, etc.), Farmers' B'k bldg
 *†Seaman-Sleeth Co. (Sand & Chilled Rolls), 41st & A. V. Ry.
 *†Simonds Mfg. Co. (Gears, Pinions & Electric Railway Specialties, etc.), 25th & Liberty
 *Snodgrass Mfg. Co. (Gas Stoves, etc.), Idlewild
 *Sommerfeld Machine & Mfg. Co. (Gears & Glass House Machinery), 220 2d
 †Springfield Foundry Co. (Iron Fdrs.), 3217 Smallman
 §Standard Bronze Co., ft. of 14th
 †Standard Motor Truck Co. (Car Trucks, etc.)
 *†§Standard Sanitary Mfg. Co. (Sanitary Enameled Iron Ware)
 *†STANDARD SCALE & SUPPLY Co. (Standard Scales, etc.), 243 Water. Works, Beaver Falls, Pa. (See adv. index, end of book)
 *†Standard Steel Car Co. (Steel Cars, etc.), Frick bldg; works, Butler, Pa.
 †Sterling Steel Foundry Co. (Steel Castings), Frick bldg
 *†Sterrit-Thomas Foundry Co. (Fdrs. & chinists, Rolling Mill & Mach'y Castings, etc.), 32d & Smallman
 *Swain & Angel (Steam Engines), 3105 Smallman
 *Tate, Jones & Co. (Machinists & Fuel Gas Burners, Gas Engines, etc.), Empire bldg
 *Tranter Mfg. Co. (Jobbing & Repairing, etc.), 105 Water
 *Trethewey, Samuel & Co., Ltd. (Blanking Dies, Steam Hammers, etc.), 47th
 *Union Elevator Co. (Elevators), 48 Gist
 *†Union Foundry & Machine Co. (Jobbing), 224 W Carson

†Union Steel Casting Co. (Steel Castings), 61st & A. V. Ry.
 *†United Engineering & Foundry Co. (Rolling Mill Machinery), Farmers Bank bldg
 †United States Cast Iron Pipe & Foundry Co., Murtland bldg. (See New York)
 *†United States Sanitary Mfg. Co. (Plumbers' Cast Iron Enamelled Ware), Arrott bldg
 *†Velte Foundry & Machine Co. (Rolling Mill Castings, etc.), Home & A. V. Ry.
 *Vierling Machine Co., 225 1st av
 †Vulcan Foundry & Machine Co. of New Castle, House bldg
 *†Westinghouse Air Brake Co., Wilmerding, Pa.
 †Westinghouse Consolidated Foundries Co. Works, Trafford City, Pa.
 †WESTINGHOUSE ELECTRIC & Mfg. Co. (Electrical Machy., etc.) Works, East Pittsburg (See adv. index, end of book)
 †WESTINGHOUSE MACHINE CO., The (Engines, etc.)
 *Wilhelm, Robt. W. (Dies, etc.), 3d & Liberty avs
 *Williams Gauge Co. (Gauges, Pumps, Governors, etc.), 543 4th av
 *†Wilson-Snyder Mfg. Co. (Steam Pumps & Air Compressors), Ross & Water
 *Wolverine Supply & Mfg. Co., Philpps Power bldg
 *YAGLE FDRY. & MACH. CO. Ltd. (Fdrs. & Machinists), 400 32d (See adv. index, end of book)
 PITTSTON—*Delahunt Dyeing Machine Co. (Dyeing Machines, etc.)
 *†Exeter Machine Works (Coal Handling Mach'y & Hoisting Engines, etc.)
 *Huntley, J. G. (Mine Drills, etc.)
 *Muirhead, John & Son (Drills, etc.),
 *†Pittston Stove Co. (Stoves)
 *Telescope Mine Machinery Co. (Mine Drills, etc.)
 *†Vulcan Iron Works (Drills, etc.)
 PLYMOUTH—*Bittenbender, Geo. H. (Mine Drills)
 *†Howell's Mining Drill Co. (Coal & Rock Drills)
 *Moss, George A. (Mining Drills, etc.)
 *Reese, Sephaniah (Machy. & Tool Works)
 POMEROY—*Phillips, M. T. (Machinist & Mach'y, etc.)
 PORT CARBON—*†Cather, Wm. A. (Iron Fdr.
 PORTLAND—*†Pearson, Leroy & Machinist
 POTTSTOWN—*†Colebrookdale Iron Co. (Sad Irons, etc.)
 *Ellis Keystone Agricultural Works (Threshers, Feed Mills, etc.)
 †Keystone Foundry Co. (Grey Iron Castings)
 *Large, Wm. H.
 *§Light Mfg. & Fdry. Co. (Bicycles, Castings, etc.)
 *McClintic-Marshall Construction Co. (Steel Structural Work, etc.)
 *†March-Brownback Stove Co. (Heaters, Furnaces, Stoves, etc.)
 *†Mayo Damper Co. (Dampers, Motor Cycles, Aluminum, Brass, Bronze Castings)
 *†Saylor, John R. (Machinery)
 *Shoemaker, Lewis F. & Co. (Steel Structural Work)
 *Weller, Manassa D. (Ornamental Iron Work)
 POTTSVILLE—*†Pottsville Fdry. & Stove Co. (Stoves, etc.)
 PUNXSUTAWNEY—*†Punxsutawney Fdry. & Machine Co.
 PROPHETSTOWN—*Eclipse Lawn Mower Co. (Lawn Mowers, etc.)
 QUAKERTOWN—*Nadig, L. F.
 *†Roberts, Winner & Co. (Stoves)
 QUINCY—*Metcalf & Miller (Gasoline Engines)
 RADNOR—*Righter, Geo. W.
 RANKIN—*McClintic-Marshall Construction Co. (Steel Structures, etc.)
 READING—*American Die & Tool Co. (Punches, Dies & Lawn Mowers)
 *American Iron & Steel Mfg. Co. (Sternberg Branch). (See Lebanon, Pa.)
 *Boss Knitting Machine Works (Textile Mach'y)
 *†Chantrell Tool Co. (Hardware Specialties)
 *§Connard, Henry (Brass Fdr. & Finisher)
 *§Crescent Brass Mfg. Co. (Inc.)
 *§Dick Bros. (Brass Fdrs.)
 †Drummond Iron Works (Cast Iron Pipe)
 *†Excelsior Brass Works (Brass Castings & Francis, G. W. Brass Specialties, etc.)
 *Franklin Specialty Co. (Hdwe. Specialties)
 *Globe Lawn Mower & Mfg. Co. (Lawn Mowers, etc.)
 *Greth Machine Works (Inc.) (Machinists)
 *†Johnston Foundry & Machine Co.
 *Keiser Mfg. Co. (Sheep Shears, etc.)

*†King Machine Works (Expansion Joints, Kline & Co. etc.)
 *Losch Engine Co. (Ltd.) (Engines, etc.)
 *†Mohn, W. D. & Co.
 *†Mt. Penn Stove Works (Stoves, etc.)
 *†National Brass & Iron Works (Art Metal Goods)
 *†Orr & Sembower, Inc. (Steam & Hoisting Engines, etc.)
 *†Penn Hardware Co. (Builders' Hardware, etc.)
 *†Prizer-Painter Stove & Heater Co. (Stoves, Heaters, etc.)
 *†Reading Car Wheel Co. (Car Wheels). (See Buffalo, N. Y.)
 *READING CRANE & HOIST WORKS (Cranes, Hoists, etc.) (See adv. index, end of book)
 *†Reading Hardware Co. (Builders' Hardware & Specialties)
 *†Reading Iron Co. (Rolling Mills, Iron Fdrs. & Machinists, Rolling Mill Engines & Sugar Mach'y, etc.)
 *Reading Machine Co.
 *†Reading Radiator Co. (Radiators, etc.)
 *†Reading Scale & Machine Co. (Cast Iron Soil Pipe & Fittings, etc.)
 *Reading Screw Co. (See Norristown, Pa.)
 *Reading Standard Cycle Mfg. Co. (Bicycles, etc.)
 †Reading Steel Casting Co. (Steel Castings, etc.)
 *†Reading Stove Works (Stove Mfrs.)
 *Remppis, Wm. F. Co. (Builders' Iron & Machinists)
 †Roepert-Kincaid Mfg. Co. (Grey Iron Machinery, Castings, etc.)
 *Seibert, Jno. H.
 *SPEIDEL, J. G. (Hand Hoists & Cranes. (See adv. index, end of book)
 *†Textile Machine Works (Textile Machy & Grey Iron Castings)
 *Tragle Mfg. Co. (Files, etc.)
 Xander Machine & Supply Co.
 †Yerger, W. J. (Brass Fdr.)
 Zacharias, E. H.
 REBERSBURG—†Gramley, Clark McC.
 REBUCK—†Fisher, W. H.
 RENFREW—*Price Bros.
 REYNOLDSVILLE—*†Herpel Bros.
 *†Pittsburg Industrial Iron Works (Derrick & Derrick Fittings, etc.)
 RHEEMS—*Grove, Isaac.
 RICES LANDING—*Young, W. A.
 RICHFIELD—†Shrauder, W. B.
 RIDGWAY—*†Ridgway Dynamo & Engine Co. (Dynamos, Engines, etc.)
 *§Ridgway Foundry Co. (Castings, Brass & Bronze)
 *†Ridgway Machine Co. (Iron & Brass Fdrs., Dry Kilns, Steam Engines, etc.)
 *Standard Axe & Tool Works
 RITTERSVILLE—*Knauss, Geo. L. (Machinist)
 RIXFORD—*Lilley, Arthur
 ROARING SPRING—*†Brown, John I.
 ROCHESTER—*†Olive Stove Works (Stoves)
 ROYERSFORD—*†Buckwalter Stove Co. (Stoves & Furnaces)
 *†Floyd-Wells Co. (Stoves, Furnaces, etc.)
 *†Grander Stove Co. (Stoves, Furnaces, etc.)
 *Keystone Meter Co. (Gas Meters, etc.)
 *Keystone Structural Co. (Steel Structural Work)
 *†Royersford Foundry & Machine Co. (Punching & Shearing Mach'y)
 SAINT CLAIR—*§Quirin, John & Bro.
 SAINT MARYS—*†Elk Engineering Works.
 *Kaul, J. & A.
 SALFORDSVILLE—*Weldner, Jacob K.
 SANDY HILL—*Kuhn, J. A. (Millwright)
 SAYRE—*Cayuta Mfg. Co.
 *†National Car Wheel Co. (Car Wheels & Castings, Fire Hydrants, Valves, etc.) (See Allegheny, Pa.)
 SCOTTDAL—*§Crescent Mfg. Co. (Lubricators, Grease Cups & Brass Castings)
 *†Scottdale Foundry & Machine Co. (Steam Engines & Mining Machy.)
 †United States Cast Iron Pipe & Foundry Co. (See New York City)
 SCRANTON—*†ALLIS-CHALMERS CO. (See Milwaukee, Wis.)
 *†American Locomotive Co. (See New York City)
 *§American Safety Lamp & Mine Supply Co.
 *†Barker, Samuel G. & Son (Track Scales, Machinery & Builders' Castings, etc.)
 *†Everhart Brass Works (Brass Goods & Brass Castings)
 *†Flnch Mfg. Co. (Iron Fdrs. & Steam Engines, etc.)
 *§General Metals Mfg. Co. (Computing Scales & Brass Goods)

*§Hughes Bros. (Lamps & Brass & Comp. Castings)
 *†McClave-Brooks Co. (Mechanical Stokers, Grate Bars, Iron & Brass Castings, etc.)
 *Long Mfg. Co. (Mine Lamps, etc.)
 *Mills & O'Toole Machine Co.
 *†O'Malley Mfg. Co. (Brass Goods)
 *†Pearce, Chas. W. (Iron & Brass Castings)
 Railway Steel Spring Co. (See New York City)
 *Scott, C. B. (Mine Supplies, etc.)
 *Scranton Axle Works (Axles, etc.)
 *Scranton Bolt & Nut Co. (Bolts, Nuts, etc.)
 *†Scranton Machine Works (General Fdrs. & Machinists)
 *†Scranton Steam Pump Co. (Iron & Brass Fdrs. & Steam Pumps)
 *†Scranton Stove Works (Stoves)
 *†Scranton Supply & Machine Co.
 *Spencer Heater Co. (Furnaces, Heaters, etc.)
 *Towhill Iron Works (Machy.)
 *Zehnder Valve & Brake Mfg. Co. (Valves, Brakes, etc.)
 SELLERSVILLE—*U. S. Gauge Co. (Vacuum Gauges)
 SHAMOKIN—*†Mullen, John & Son (Iron Fdrs. & Engines, Pumps, Mining Machinery, etc.)
 SHARON—†American Steel Foundries
 *Damascus Brake Beam Co. (Brake Beams & Railroad Specialties). (See Cleveland, O.)
 †National Malleable Casting Co. (See Cleveland, O.)
 *†Sharon Foundry Co. (Steel Castings & Machine Work)
 *†Shenango Machine Co. (Iron Fdrs. & Machinists)
 SHARPSBURG—†Moorhead, Bro. & Co. (Inc.) (Iron Pipes, etc.)
 SHARPSVILLE—*†Inglis, D. R.
 *†West, Thos. D. Foundry Co. (Iron Fdrs., SHEFFIELD—*Mainwaring & Havens etc.)
 SHIELDS—*†Edgworth Machine Co. (Machinists, etc.)
 SHILLINGTON—*Miller, Wm. W.
 SHIPPENSBURG—*Davidson, George
 *†Domestic Engine & Pump Co. (Gasoline Engines, Pumps, etc.)
 SHOENERSVILLE—*†Lazarus, J. R. & Bro.
 SLATINGTON—*†Slatington Foundry, Machine & Boiler Works (Grey Iron Castings, Mine & Quarry Repairs, etc.)
 SNYDERSVILLE—*†Marsh, E. B. Bro. & Co. (Iron Fdrs., Machinists, Flows, etc.)
 SOMERSET—*†Highland Foundry & Machine Co.
 SOUTH BETHLEHEM—*†Bethlehem Foundry & Machine Co. (Machine Tools, etc.)
 *†Bethlehem Steel Co. (Rolling Mill & Special Mach'y, Castings, etc.)
 SPRING CITY—*†Keystone Stove Foundry (Stoves, etc.)
 *Penna. Shafting Co. (Polished Steel Shafting)
 *†Yeager-Hunter Spring City Stove Works (Stove Mfrs.)
 STEELTON—*†Penna Steel Co. (Steel Castings, Railroad Frogs, Switches, Crossings & Forgings, etc.), main office, Philadelphia
 STOWE—*†Flagg, Stanley G. & Co. (See Phila.)
 STROUDSBURG—†Landers, Francis (Iron Foundry)
 *†Marsh, E. B. Bro. & Co. (dry)
 *†Stroudsburg Engine Works (Hoisting Engines, etc.)
 *Tanite Co. (Emery Wheels, etc.)
 SWALES—†Beers, J. L. & Sons
 †Jamison, I. M.
 SWEDELAND—*†Hecksher, Richard & Sons Co.
 SWISSVALE—*†Union Switch & Signal Co. (Railroad Specialties). (See Pittsburg, Pa.)
 TAMAQUA—†Beddall Bros.
 *†Tamaqua Mfg. Co. (Iron Fdrs. & Ore Washing & Coal Mining Machy.)
 TARENTUM—†Stevener, Charles W. (Iron Foundry)
 TATAMY—*†Messinger Mfg. Co. (Agl. Impts., Threshers, Planters, Grain Cleaning Machinery)
 TEMPLE—*Temple Ornamental & Structural Iron Works Co.
 TIDIOUTE—*Grettenberger, Fred
 TIONA—*Norris, W. C. (Oil Well Tools, etc.)
 TITUSVILLE—*†American Radiator Co. (See Chicago, Ill.)
 †Burgess, Chas. (Steel Castings & Steel Mfr.)
 *†Titusville Forge Co. (Iron Fdrs., Machinists & Forgings)

*Titusville Iron Co. (Steam Engines, etc.)
 *Young, E. R. & Sons (Engines, etc.)
 TOPTON—*Topton Foundry & Machine Co.
 TOWANDA—*Humphrey Mfg. Co. (Iron Fdms. & Machinists)
 *Loetzer Valve & Mfg. Co. (Valves, Fire Hydrants, etc.)
 TROY—*Troy Engine & Machine Co. (Jno. A. Parsons, Prop.), (Engines, etc.)
 TUNKHANNOCK—*Avery, F. P. (Foundry)
 TYRONE—*Burley Heater Co. (Grey Iron Castings, Heaters, etc.)
 UNION CITY—*Industrial Iron Works
 *Warden Iron Works
 UNION FURNACE—*Union Furnace Mfg. Co. (Hot Air Registers, Shovels, Rakes, Hoes, etc.)
 UNIONTOWN—*Evans Mould & Machine Co.
 *Johnson Machine Co.
 *McCrum-Howell Co. (Hot Air Furnaces, Radiators & Heating Apparatus, etc.)
 Main office, New York
 *Miller Foundry Co.
 VANDERGRIFT—*United Engineering & Foundry Co. (See Pittsburg, Pa.)
 VERONA—*General Castings Co. (Steel Castings)
 *Kowalsky, B. J. Engine Co.
 WANAMAKERS—*Klingman, L. J.
 WARREN—*Allegany Foundry Co. (Grey Iron & Brass Fdms. & Semi-Steel Castings & Machinists, etc.)
 *Barnhardt & Davis
 *Bashlin Co. (Brass Fdms. & Valves, etc.)
 *Best, Jno. (Machinist)
 *GISHOLT MACHINE CO. (Machine Tools, Vertical & Horizontal Boring Mills, Turret Lathes, Brass & Iron Fdms.)
 (See adv. index, end of book)
 *Hammond Iron Works (Boilers & Machinists, etc.)
 *Jacobson Machine Mfg. Co. (Air Compressors, Power Transmitting Machinery, Vices, Clutches, etc.)
 *Struthers-Well Co. (Gas Engines, Boilers, etc.)
 *Warren Axe & Tool Co. (Edge Tools, etc.)
 *Warren Steel Car Works (Steel Cars, etc.)
 WASHINGTON—*Chapman Sucker Rod Co. (Sucker Rods, etc.)
 *Gardner Convertible Steam & Gas Engine Co.
 *Petroleum Iron Works Co. (Cylinders, *Rose, G. W. Tanks, Separators, etc.)
 *Zahniser Bros. & Sten (Machinists)
 WAYNE—Wayne Iron Works (See Phila., Pa.)
 WAYNESBORO—*Emmert Mfg. Co. (Vices, etc.)
 *Frick Co. (Steam & Traction Engines, Ice Machinery & Agl. Impls., etc.)
 *Gelser Mfg. Co. (Steam & Traction Engines, Agl. Impls., etc.)
 *Hendricks Mfg. Co. (Machine Tools, etc.)
 *Landis Tool Co. (Tool Grinders, etc.)
 WAYNESBURG—*Elms Bros. & Co. (Machinists)
 *Zahniser Bros. (Oil & Gas Well Tools, etc.)
 WEATHERLY—*Weatherly Foundry & Machine Co. (Grey Iron Castings, Railroad, etc.)
 WEST CHESTER—*Dalry Specialty Co. (Dalry Machinery)
 *Hoopes, John (Dalry Machy., etc.)
 *Mayer & Eachus
 *Price, Jos. T.
 *Sharpels Separator Co. (Dalry Machinery & Supplies, etc.)
 *Sharpless, Alfred D.
 WEST HOMESTEAD—National Car Wheel Co. (Car Wheels & Iron & Brass Castings)
 WEST NEWTON—*Moore & Butts
 *Schoaf, Fred
 *Standard Stove & Range Co.
 *United States Radiator & Boiler Co. (Radiators, etc.)
 WEST SALISBURG—*Knecht, M. & Sons
 WHEATLAND—*Sharon Foundry Co. (Rolling Mill Castings, Ingot Molds, etc.)
 WHITE HAVEN—*Wallace, Saml. (Est. of)
 WILKES-BARRE—*Eagle Iron Works
 *Gates Foundry Co.
 *Johnson, Robt. (Machinist)
 *Le Grand Mine Drill Works (Steam Mine Drills)
 *MacCullum Machine & Supply Co.
 *Nicholson, W. H. & Co. (Expanding Mandrels, Compression & Flange Couplings, etc.)
 *Royer & Zweifel (Brass Fdms., etc.)
 *Sheldon Axle Co. (Carriage Axles, etc.)
 *Shelley, George & Son
 *Sulcan Iron Works (Iron Fdms., Engines, Mining Machy., etc.)
 *Wilkes-Barre Iron Mfg. Co.

WILKINSBURG—*Schroder, C. O.
 WILLIAMSPORT—*American Woodworking Machinery Co. (See Rochester, N. Y.)
 *Darling Pump & Mfg. Co. (Machinists & Iron & Brass Fdms., etc.)
 *Demorest Mfg. Co. (Sewing Machines & Bicycles, etc.)
 *Foucart, Jno. E. (Saws, Machines, Knives, etc.)
 *Hermance Machine Co. (Woodworking Machy.)
 *Keeler, E. Co. (Machinists & Boltermakers)
 *Link, Jas. H. Machinery Co. (Saw Mill Machy., etc.)
 *Moltz, Jacob J.
 *National Foundry Mfg. & Supply Co. (Power Transmitting Machinery & Grey Iron Castings)
 *Rohlfuse-Howard Iron Works (Engines & Saw Mill Machinery)
 *Rundio, Nelson L. (Iron Foundry)
 *United States Machine Co. (Woodworking Machinery & Iron & Brass Castings)
 *Valley Iron Works (Power Transmitting Machy. & Steam Engines, etc.)
 *Williamsport Gas Engine Co. (Gas & Gasoline Engines)
 *Williamsport Iron & Nail Co.
 *Williamsport Radiator Co. (Radiators, etc.)
 *Williamsport Staple Co. (Hardware & Harness Specialties)
 WILDERMINE—*Westinghouse Air Brake Co.
 *Westinghouse Traction Brake Co. (Electric Car Brakes, etc.)
 WINDOM—*Kauffman, Harry M.
 WOMELSDROF—*Beyerle, Wm.
 WRIGHTSVILLE—*Dissinger, C. H. A. & Bro. (Gasoline Engines, etc.)
 *Riverside Foundry Co.
 *Susquehanna Casting Co. (Light Castings & Hardware Specialties)
 *Wrightsville Hardware Co. (Builders' & Shelf Hardware, etc.)
 WYNDMOOR—*Nelson Valve Co. (Valve Mfrs.)
 WYOMING—*Eagan, Jas. (Mine Drills, etc.)
 YORK—*Broomell, Schmidt & Steacy Co. (Heating Apparatus, Ranges, Kilns & Grey Iron Castings, etc.)
 *Burrows Mfg. Co. (Valves, Regulators, etc.)
 *Eyster, Weiser & Co. (Water Wheels, Powder Mill Machy. & Car Castings)
 *Farquhar, A. B. Co., Ltd. (Agl. Impls., Traction & Steam Engines, etc.)
 *Flinchbaugh Mfg. Co. (Gas & Gasoline Engines, etc.)
 *Graybill, John E. & Co., Inc. (Electrical Supplies)
 *Hench & Dromgold Co., Inc. (Agl. Impls., Grain Drills, Plows, Cultivators, Harrows, etc.)
 *Henry, Millard & Henry (Gas & Gasoline Engines, etc.)
 *Keystone Farm Machine Co. (Agl. Impls., Plows, Cultivators)
 *Mottet, Geo. F. & Sons (Steam Engines)
 *Norway Iron & Steel Co. (Malleable Iron & Steel Castings)
 *Penna. Foundry Co. (Grey Iron & Brass Castings)
 *Root, B. M. Co. (Woodworking Machy.)
 *Ruth Machine Co. (Knitting Machines)
 *Smith, S. Morgan Co. (Turbines, etc.)
 *Smyser's, E. G. Sons Co. (Grey Iron & Builders Castings, etc.)
 *Spangler Mfg. Co. (Agl. Impls., Grain Drills, Harrows, Planters, Saw Mills, etc.)
 *Wiest Machine Co.
 *York Bridge Co. (Steel Bridges, Steel Derriks, etc.)
 *York Electric & Machine Co. (Incandescent Lamp Making & Special Machy.)
 *York Foundry & Machine Co.
 *York Mfg. Co. (Ice & Refrigerator Machinery, Corliss Engines & Castings, etc.)
 *York Safe & Lock Co.
 *York Wagon Gear Co. (Ltd.) (Wagon Gears)
 YOUNGS—*Graver, Geo. A. (Iron Fdry. & Machinist)
 YOUNGSVILLE—*Sagerdahl, J. A.
 ZELIENOPLE—*Herman Pneumatic Machine Co. (Foundry Molding Machines, etc.)
 *Iron City Sanitary Mfg. Co. (See Pittsburg, Pa.)

CENTRAL FALLS—*Mossberg Wrench Co. (Special Machy., Wrenches, etc.)
 *Newell, F. E. (Brass Fdry.)
 EAST GREENWICH—*Nock, F. S. (Engine & Power Boat Builder)
 *Arnold, Jas. E.
 HILLS GROVE—*Rhode Island Malleable Iron Works (Malleable Iron Castings)
 HOPE VALLEY—*Nichols & Langworthy Machine Co. (Steam Engines, Printing Presses, etc.)
 NEWPORT—*Burnham, Gilbert H. (Machinists)
 *Newport Engineering Works
 *Newport Foundry & Machine Co.
 *Newport Mfg. Co. (Special Machy., etc.)
 *Owen, Thos. G. (Machinist)
 *Stedman, P. H. (Brass Fdry. & Finisher)
 PAWTUCKET—*Blackstone Machine Co.
 *Carpenter, J. M. Tap & Die Co. (Taps & Dies)
 *Cole Bros. (Textile Machy., etc.)
 *Collins Bros. (Machinists)
 *Collyer Machine Co. (Engineers & Machinists)
 *Dawson, A. (Tipping Machines)
 *Easton & Burnham Machine Co. (Textile Machinery, Spindles & Machinists)
 *Fales & Jenks Machine Co. (Machine Tools, etc.)
 *Haskell Wm. H. Mfg. Co. (Machinists, Bolts, Nuts, etc.)
 *Howard & Bullough American Machine Co. (Cotton Machy.) (See Boston, Mass.)
 *Jenckes, E. Mfg. Co. (Knitting Machinery, etc.)
 *Jenkinson, Jno. (Brass Founder)
 *Luther, C. A. & Co. (Textile Machy.)
 *McKenna, Frank & Co. (Brass Founders)
 *Moncrief, James A.
 *Narragansett Machine Co. (Machinery & Gymnasium Supplies)
 *New England Machine & Electric Co.
 *Pawtucket Mfg. Co. (Mach., Bolts, Nuts, etc.)
 *Payne, Geo. W. Co. (Textile Machy.)
 *Potter & Johnston Machine Co. (Machine Tools, etc.)
 *Slocum, Wm. H. Co. (Machy., Forgings, etc.)
 *White, J. S. Co. (Iron Fdms. & Machinists)
 PROVIDENCE—*Adams Bros., 224 Eddy
 American Ball Co. (Steel Balls, etc.), Eagle & Kinsley ave.
 *American Locomotive Co. (See New York)
 *American Ship Windlass Co. (Windlasses, Winches, Steam Towing Machines, Castings, etc.)
 *American & British Mfg. Co. (Corliss Engines, Driving Wheels, etc.)
 *Angell, Chas. E. (Machinist), 21 Eddy
 *Beaman & Smith Co. (Machine Tools)
 *Blaisdell, S. S. Machine Co., 130 Orange
 *Bragg, Jno. I. (Wool, Combs, etc.), 24 Attwood
 *Brown & Sharpe Mfg. Co. (Machine Tools, Machinists' Small Tools & Grey Iron Castings)
 *Builders' Iron Foundry (Grinding Machinery & Iron & Heavy Bronze Castings)
 BULLARD AUTOMATIC WRENCH CO. (Inc.) (Wrenches, etc.) (See adv. index, end of book)
 *Carpenter, H. T. & Co., 157 Orange
 *Colvin Foundry Co. (Castings of all kinds)
 *Cruikshank Engine Co. (Stationary & Yacht Engines), 286 Dyer
 *DART, E. M. MFG. CO. (Unions, Couplings, etc.) (See adv. index, end of book)
 *Diamond Machine Co. (Grinding Machinery), 9 Coddling
 *Excelsior Steam Engine & Machine Co., 30 Friendship
 *Feld, Chas. H. (Tool Grinders & Polishers), 112 Point
 *Franklin Machine Co. (Cotton Machinery, 189 Charles
 *Fuller, Frederic (Church Bells & Bronze Castings)
 *Fuller Iron Works (Cast Iron Pipe & Machy. Castings), 40 Tockwotton
 *General Fire Extinguisher Co. (Cast Iron Pipe & Fittings, Valves, Steam Brass Goods, etc.)
 *Gorham Mfg. Co. (Brass & Bronze Fdms., etc.)
 *Harris, W. A. Steam Engine Co. (Corliss Engines)
 *Heathcote, Jno. & Son (Woolen Machinery), 212 Eddy

RHODE ISLAND.

BRIDGETON—*Hopkins Machine Works (Inc.) Textile Machinery
 BRISTOL—*Herreshoff Mfg. Co. (Yacht Bldrs)

*Hope, Jno. & Sons. Engraving & Mfg. Co. (Engraving Mach'y.), Mashapaug & Elmwood

*Hughes, Wm. Co., Bough st
*§Iroquois Machine Co. (Tool Grinders, Bearings, etc.)

*Langelier Mfg. Co. (Special Mach'y)
*McWilliams, Thomas, 237 Eddy
*Mann, Chas. A., 166 Doyle av
†Miller Iron Co. (Castings, etc.), 516 Harris ave.

Miller, Wm. (Wool Combs), rear 228 Aborn
*†New England Butt Co. (Braiding Machinery, etc.), 304 Pearl

*Nicholson File Co. (Files, Rasps, etc.)
*Parkinson, Edw. (Machinist), 84 Sprague
§Providence Art Metal Co., Iron & Russell bldg

§Providence Brass Fdry. & Machine Co. (Brass & Bronze Castings)
*Providence Engineering Works (Corliss & Pumping Engines, etc.)

*†Providence Machine Co. (Textile Machinery)
*Providence Steam Trap Co. (Steam Traps, etc.), 16 Diamond

†Providence Steel & Iron Co.
*Rhode Island Braiding Machine Co. (Textile Mach'y.)

§Rhode Island Brass Fdry. (Brass & Bronze Castings)
*Rhode Island Elevator & Machine Co. (Elevators & Machinery), 18 Calender

*Rhode Island Machine Co. (Tools, etc.)
*†Rhode Island Tool Co. (Tools, Nuts, etc.)
*Richards, Isaac P. (Punches, Dies, etc.)

§Rogers, Wm. Silver Co. (Silverware)
*Rushton, Carroll Co. (Textile Machinery), Ethan

*Scholfield, Jos. J. (Gears & Pulleys, etc.), 282 Dyer
*Schott Bros. (Button Machinery)

*Scott, Henry L. & Co. (Machinists), 227 Eddy
§Shirley, Jno. R. & Sons (Gas Fixtures)

*Slocumb, J. T. Co. (Machine Tools)
*Standard Machinery Co. (Presses, Drops, Rolling Mills, Draw Benches, etc.)

*Sutcliffe & Roberts
*†§Textile Finishing Machinery Co. (Textile Machinery), 17 Exchange pl.

*Thomas & Lowe Machinery Co., 68 W Exchange pl
*Thurston Mfg. Co. (Jewelers' Machinery).

*U. S. Bobbin & Shuttle Co. (Textile Machinery)
*Universal Winding Co. (Winding Machines).

*Wheelwright Filler & Mfg. Co. (Paper Machinery, etc.)
§White-Stillman Foundry Co. (Brass Fdrs.),

*Winsor, Ira & Co., 169 Dorrance
*Winsor & Jerauld Mfg. Co. (Textile Machinery), 223 Harrison

RIVER POINT—†Brayton, L. Foundry Co.
VALLEY FALLS—*Hindley Mfg. Co. (Castings, Keys, etc.)

†Valley Falls Iron Foundry
WARREN—*Potter, Collamore & Co.

WESTERLY—*†Cottrell, C. B. & Sons Co. (Printing Presses, etc.)

WOONSOCKET—*American Wringer Co. See New York City

*Knight, Geo. C. (Machinist)
*Taft-Pierce Mfg. Co.

*†Woonsocket Machine & Press Co. (Textile Mach'y.)
*Woonsocket Napping Machinery Co. (Textile Mach'y.)

SOUTH CAROLINA.

ANDERSON—*†Anderson Mach. & Fdry. Co.
BLACKSBURG—*†Blacksburg Machine & Iron Works

CHARLESTON—*†Charleston Iron Works
*†§Riley, Jno. F. Fdry. & Machine Works (Brass & Iron Castings, Forgings, Machinists, etc.)

*†Riverside Iron Works (Machinists, Fdrs., Shipsmiths, etc.)
*†Valk & Murdoch Iron Wks. (Iron Fdrs., Machinists & Machinery)

†Virginia-Carolina Chemical Co. (Fdry. Department)

CHERAW—†Pee Dee Iron Works
CHESTER—*Chester Machine & Lbr. Co.

COLUMBIA—*†Columbia Machine & Iron Works
*†Shields, Geo. A. (Iron Fdry. & Machinist)

*†Willis, J. A. (Steam Engines, etc.)
CONWAY—†Conway Iron Works
CORNWELL—*McKeown, W. O. & Sons

DILLON—*Dillon Plow & Novelty Works (Plows, etc.)
GAFFNEY—*†Cherokee Fdry. & Machine Works

GEORGETOWN—†Georgetown Iron Works
GREENVILLE—*†Mountain City Fdry. & Machine Works (Inc.)

LAURENS—*†Hudgens Bros.
McCOLL—*Fletcher, John C. (Cotton Planters, etc.)

MARION—*†McDuffie, Emerson
ORANGEBURG—†Smoak, J. W.

ROCK HILL—*†Sylecau Mfg. Co.
SALUDA—†Crout, J. M.

SENECA—†Seneca Iron Works
SPARTANBURG—*†Morgan Wood & Iron Works

*†Russell-Compton Co.
SUMTER—*†Sumpter Iron Works
*†Sumter Machinery Co.

WALTERBORO—*†Cummings Iron Works & Supply Co.

SOUTH DAKOTA.

ABERDEEN—*†Hub City Iron Works
BROOKINGS—*Bishman, Geo. A.

CANTON—*Ellingson, E. E.
CHAMBERLAIN—*Knudson & Olson

DELL RAPIDS—*Sioux Hdw. & Construction
DESMET—†Desmet Stove Co. (Stoves) Co.

ELKTON—*Strupp, T. J.
EPIPHANY—*Kersten, N. T. Co.

LEAD—*†Homestake Mining Co.
MITCHELL—*†Mitchell Boiler & Machine Co.

MELLETT—*Oberle, John
RAPID CITY—*†Charles, Homer

REDFIELD—*†Norbeck & Nicholson Co. (Iron Fdrs. & Machinists)
SIOUX FALLS—*†Pankow Bros. (Fdrs. & Machinists)

*Sioux Falls Plow Co. (Plows, etc.)
VALLEY SPRINGS—*Running, C. O.

WATERTOWN—*Hanter Bros.
WEBSTER—*Magnus, Wm. (Machinist)

*Pratt Bros.
WOONSOCKET—†Janssen, J. H.

YANKTON—*Fanslow Bros (Machinists)
*Veiling, Anton

TENNESSEE.

BRISTOL—*†Dixie Foundry & Machine Wks.
CHATTANOOGA—†Acheson Foundry Works

*†American Brake Shoe & Foundry Co. (See Mahwah, N. J.)
*American Mfg. Co. (Light Hardware, etc.)

*Arithmetical Scale Co. (Computing Scales, etc.)
*Brown, T. W. & Bro.

*†Cabill Iron Works (Iron Fdrs. & Machinists)
*Carson Mfg. Co.

*†Casey & Hedges Mfg. Co. (Sugar Mach., etc.)
*†Chattanooga Car & Foundry Co. (Cars, Car Wheels, etc.)

*†Chattanooga Implement & Mfg. Co. (Hay Presses, Agl. Impls., etc.)
*†Chattanooga Machinery Co. (Air Compressors, Hoists, etc.)

*†Chattanooga Plow Co. (Plows, Cane Mills, etc.)
†Chattanooga Roofing & Foundry Co. (Iron Fdrs., etc.)

*Chatanooga Saw Works (Saws, etc.)
*†Chattanooga Stove Co. (Stoves)

†Eureka Foundry Co. (Iron Fdrs.)
†Frictionless Metal Co. (Bearings, etc.)

*†Gibson-White Foundry Co. (Stoves & Castings)
*Gonce Lock & Mfg. Co. (Locks, etc.)

*†Gustafson Mfg. Co. (Cars, Mine Equipments, Rollers, etc.)
*†Herron Iron Bedstead Co.

*†Herron Pump & Foundry Co. (Pumping Mach'y. & Iron & Brass Castings, etc.)
*Jones, George (Mining Mach'y, etc.)

*†Lookout Boiler & Mfg. Co.
*McGregor, J. F. & Co. (Hardware Specialties, etc.)

§Moffett, Wm. (Brass Fdry.)
†Mountain City Stove & Mfg. Co. (Stoves, etc.)

*†National Disc Plow Co. (Plows, etc.)
*Nixon Mining Drill Co. (Mining Drills, etc.)

*†§Price-Evans Foundry Co. (Iron & Brass Castings, etc.)
*Reversible Disc Plow & Implement Co. (Agl. Impls.)

*†Ross-Mechan Foundry Co. (Grey & Malleable Iron Fdrs., etc.)
*†Sanders-Newell Plow Co. (Plows, etc.)

*†Senter Mfg. Co. (Boilers, Mach'y, etc.)

*Standard Machinery Co. (Machinists & Star Pea Machine Co. Machinery)

*Street Bros. Machine Works
*Superior Machinery Co. (Hay Presses, etc.)

†Tennessee Stove Works (Stoves, etc.)
*Tower Mfg. Co. (Hay & Cotton Presses, etc.)

*Truxal-Painter Mfg. Co.
†U. S. Cast Iron Pipe & Foundry Co. (See New York City)

*Vacuum Dyeing Machine Co.
*†Volunteer Disc Plow Co. (Plows, etc.)

*†Wheland Machine Works (Engines, Saw Mill Mach'y., etc.)
†White, Wm. & Sons

CLARKSVILLE—*†Ground Hog Plow & Foundry Co.
*†Patch, A. H. (Corn Shellers, Feed Mills, etc.)

CLEVELAND—*†Hardwick Stove Co. (Stoves)
CLINTON—*†Clinton Iron Works (Inc.) (Car Wheels, Castings, etc.)

COOKEVILLE—*Cookeville Machine Shop
DYERSBURG—*Shepard, F. H.

ERIN—*Erin Mfg. Co. (Hay Presses, etc.)
GALLATIN—*Read, G. D.

HALLS—*Daws, W. J.
HARRIMAN—*†Harriman Hoe & Tool Co. (Hoes, Tools, etc.)

*†Harriman Mfg. Co. (Agl. Impls., Plows, etc.)
JACKSON—*†Heathcock & Bush Machine Co.

*†Southern Engine & Boiler Works (Engines, Saw Mill Mach'y., etc.)
*†Wells-Jones Plow Co. (Plows, etc.)

JELLICO—*Carroll Mfg. & Machine Co.
*†Jellico Foundry & Machine Co.

JOHNSON CITY—*†Johnson City Foundry & Machine Works
KNOXVILLE—*American Spring Motor Co. (Electric Motors, etc.)

*Biddle Mfg. Co. (Machinists)
*†Bowman, W. H. (Iron Fences, etc.)

*Dempster, Jas. (Machinist)
*Duncan, John G. Co.

†Enterprise Machine Works
*†Fair Foundry Co. (Stoves, etc.)

*†Knoxville Foundry & Machine Co.
*†Knoxville Iron Co. (Fdrs. & Machinists)

§Marland, Jno.
*†Neison, H. O. Iron Works (Iron Fences & Castings)

*†Oliver, Wm. J. Mfg. Co. (Contractors' Cars, etc.)
*†Sanford-Day Iron Works (Car Wheels & Cars)

*Savage, W. J. & Co. (Mill Mach'y, etc.)
*†Scott's Patent Brick Car Co. (Castings, Brick Cars, Grate Bars, etc.)

*Tattersall, Jno. (Machinist)
*†Tennessee Foundry & Machine Co.

*Ty-Sa-Man-Machine Co.
*Wolf, M. L. (Machinist)

LA GRANGE—*†Gaither-Panky Plow Co.
LAWRENCEBURG—*Lawrenceburg Machine

LEWISBURG—*Green, A. J. & Son Co.
McMINNVILLE—*†Reynolds & Wrightman

MARYVILLE—†Golden Rule Stove Co.
MEMPHIS—*Beronio & Palmer (Stoves, etc.)

*Bodley Wagon Co. (Contractors, Wagons, Cars, etc.)
*Bohlen-Huse Machine & Lake Ice Co.

*Brown, Hinman & Huntington Co., (Agl. Impls., etc.)
*†Chickasaw Iron Works (Iron Fdrs., Builders' Iron Work & Machinery)

*†Duke Success Machine Co.
*Eagle Machine Works (Machinists)

*Ellis, Wm. C. & Sons (Agl. Impls. & Mach'y.)
*†Livermore Foundry & Machine Co. (Fdrs. & Machinists)

§Memphis Brass Works
*†Memphis Machine Works (Machinists, etc.)

*Memphis Repair Works
†Smart Heating Co. (Heaters, etc.)

*Southern Gun, Machine & Model Works
*Success Brick Machinery Co. (Brick Mach'y, etc.)

*Union Iron Wks. (Gas & Gasoline Engines)
*†Wetter, H. Mfg. Co. (Stoves, Cast Iron Soil Pipe, etc.)

*†White, Jno. & Son (Stoves)

MIDLAND—*Barnes, A. T.

NASHVILLE—*†Allen Mfg. Co. (Stoves, etc.)

*Bouchard, John & Sons Co.

*Braid Electric Co. (Elec. Specialties)

*†Cumberland Foundry & Mfg. Co.

*†Duncan & Co. (Stoves, etc.)

*Electric Candy Machine Co. (Confectioners' Mach'y, etc.)

*Jonte, N. S. (Machinist)

*†Napier Iron Works (Inc.)

*Nashville Machine Co. (Flour Mill Machinery)

*Phillips & Buttorff Mfg. Co. (Stoves, etc.)
 *Rock City Machine Co. (Machinists)
 *Stewart & Bruckner (Fdrs. & Machinists)
 *Union Machine & Supply Co. (Ists)
 PULASKI—*Pulaski Machine Co.
 *West, R. P.
 SHELBYVILLE—*Kahl, E. H.
 SOUTH PITTSBURG—*Blacklock Fdry. Co. (Sad-Irons, etc.)
 *Central Fdry. Co. (See New York City)
 *South Pittsburg Foundry Co.
 *Wetter, H. Mfg. Co. (See Memphis)
 TRENTON—*Trenton Machine Works & Supply Co.
 TROY—*Kanady & Goodman (Stoves, etc.)
 UNION CITY—*Semones & Son

TEXAS.

AMARILLO—*Amarillo Machine Works
 AUSTIN—*Gossard, A. R. (Mill Mach'y)
 *Heierman, Frank & Bro.
 *Tips Foundry & Machine Co.
 BATSON—*Wynn, J. S.
 BEAUMONT—*Beaumont Iron Works
 *Neches Iron Works
 *Penman Iron Works
 *Southern Car Mfg. & Supply Co.
 BONHAM—Bonham Foundry & Wood Works
 BRENNHAM—*Beaumont Iron Works
 *Roff & Miller
 BRYAN—*Stevenson Machine & Supply Co.
 CLARKSVILLE—*Miesch, John
 CORSICANA—*American Well & Prospecting Co. (Iron Fdrs., Machinists & Engineers)
 *Clarkson, Wm. Iron Fdry. & Machinists
 *Texas Development Co. (Ists)
 DALLAS—*Continental Gin Co. (Cotton Gins) (See Birmingham, Ala.)
 *Graber, H. W. Mach. Co.
 *Hardwick-Webb Machine Co.
 *Moshier Mfg. Co. (Fdrs. & Machinists)
 *Murray Co. (Gin Machy. & Supplies)
 *One Seed Planter Co. (Cotton Planters, etc.)
 *Sutton-Steele & Steele (Inc.) (Mining Mach'y, etc.)
 *Texas Disc Plow Co. (Plows, etc.)
 DENISON—*Clark, H. W.
 *Knaur, Wm. E. & Co. (Iron Fdry.)
 *Knaur & Howe (Machinists & Fdrs.)
 EL CAMPO—*Lindstrom, C.
 EL PASO—*Darbyshire & Harvie Iron & Machine Co.
 *El Paso Foundry & Machine Co.
 FARMERSVILLE—*Rike, J. R.
 FLATONIA—*Eidelbach, A.
 FORT WORTH—*Axtell-McKee Mfg. Co. (Windmills, etc.)
 *Fort Worth Gin & Machinery Co. (Gin Elevators, etc.)
 *Fort Worth Machine & Foundry Co. (Gasoline Engines, Railroad Bridge & Builders' Castings, etc.)
 *Horrell Bros. (Mach'y, Castings, Gate Bars, etc.)
 *Midland Brass Works (Brass Fdrs., etc.)
 *National Cigar Machine Co.
 *Southwestern Mechanical Co., N Fort Worth
 *Texas Anchor Fence Co. (Farm, Stock & Lawn Fencing, Gates, etc.)
 *Texas Mfg. Co. (Cotton Gins, etc.)
 *Van Zandt-Moore Iron Works (Ice & Well Machinery & Builders' Iron Work)
 GAINESVILLE—*Gainesville Iron Works
 *Moseley, John L.
 GALVESTON—*Astell Iron Works Co. (Engines, etc.)
 *McDonough Iron Works (Steam Engines)
 *Unlon Iron Works
 *Walsh & Cleary (Iron Fdrs.)
 GREENVILLE—*Greenville Fdry. & Machine Works
 HILLSBORO—*McQuatters Plumbing & Machine Co.
 HOUSTON—*Dickson Car Wheel Co. (Car Wheels & Cartings)
 *Hartwell Iron Works
 *Houston Engineering & Machine Co.
 *Kettler Brass Mfg. Co.
 *Ries, F. H.
 *Unlon Iron Works
 *Waterman Car Wheel & Foundry Co.
 HUNTSVILLE—*State Penitentiary
 JEFFERSON—*Jefferson Fdry. & Machine Shops
 KELLYVILLE—*Kelly, G. A. Plow Co. (Agrl. Impls.) (See Longview, Tex.)
 LAMPASAS—*Huling, Tom
 LONGVIEW—*Kelly, G. A. Plow Co. (Agrl. Impls.)
 *McDonald, G. B.

LUFKIN—*Lufkin Fdry. & Machine Co.
 MARSHALL—*Marshall Car Wheel & Fdry. Co. (Car Wheels, etc.)
 PALESTINE—*Dilley, Geo. M. & Son (Iron Fdrs. & Cars & Castings, etc.)
 PARIS—*Collins & Dulaney
 *Graves, W. H.
 *North Texas Foundry & Machine Co.
 *Richey & Totten
 PITTSBURG—*Thorsell, P. W. (Iron Fdry. & Machinist)
 QUEEN CITY—*Boyd, W. E.
 SAN ANGELO—*San Angelo Mfg. Co.
 *Wright & Co.
 SAN ANTONIO—*Alamo Iron Works
 *Collins-Gunther Co.
 *San Antonio Foundry Co.
 *San Antonio Machine & Supply Co.
 *Southern Structural Steel Co.
 SARATOGA—*Cheek & Graham
 SHERMAN—*Washington Iron Works
 SOUR LAKE—*Wynn, J. S.
 TEMPLE—*Brokermeyer & Bracken
 TEXARKANA—*De Marce, Mrs. A. (Iron Fdy. & Steam Engines, etc.)
 *Texarkana Iron Works
 TYLER—*Tyler Iron Works
 WEATHERFORD—*Weatherford Machine & Foundry Co.
 WHARTON—*Wharton Machine Shop
 WICHITA FALLS—*Lucke, H. C. (Plows, etc.)
 WYLIE—McDonald, W. T.

UTAH.

LOGAN—*Danielson Mfg. Co. (Agrl. Impls.)
 OGDEN—*Pearce, Wm.
 PROVO CITY—*Pierpont, T. F.
 SALT LAKE CITY—*Cragger Wire & Iron Works
 *Davis, Howe & Co.
 *Fowler, J. P.
 *Hutchinson, C. P.
 *Salt Lake Engineering Works (Mining, Concentrating & Smelting Machinery)
 *Sherman Engineering Co. (Mining & Milling Mach'y, etc.)
 *Silver Bros. Iron Works Co. (Iron & Brass Founders, Steam Engines)
 *Silver, Hyrum A. Fdry. & Machine Co. (Mining, Milling & Smelting Mach'y, etc.)
 *Trent Engineering & Machinery Co.
 *Union Foundry & Machinery Co.
 *Utah Foundry & Machine Co.
 *Warm Springs Foundry Co.
 *Western Foundry & Stove Repairing Works

VERMONT.

BARRE—*Kinney, F. E. & Co.
 *Smith, Whitcomb & Cook Co. (Stone Polishing & Working Machy)
 *Whitcomb Bros. (Stone Working Machy)
 BARTON—*Murkland, Jno. W.
 BELLOWS FALLS—*Bellows Falls Machine Co. (Paper Mill Machy)
 *Vermont Farm Machine Co. (Creamery Machy, etc.)
 BENNINGTON—*Bradford & Lasher
 *Cooper, Chas. (Knitting Machinery, etc.)
 *Scott, Olin (Gun Powder, Paper & Pulp Mill Machy, etc.)
 *Sibley, E. L. (Eyelet Presses)
 BRANDON—*Backus Co. (Heaters, etc.)
 BRATTLEBORO—*Brattleboro Machine Wks etc.
 BURLINGTON—*Burlington Machine & Repair Co.
 CASTLETON—*Sargent, S. R. & Son (Plows, etc.)
 CHESTER—*Stearns, F. H. Mfg. & Supply Co.
 DERBYLINE—*Butterfield & Co. (Taps & Dies, etc.)
 EAST HIGHGATE—*Rixford Mfg. Co. (Scythes, Axles, etc.)
 FAIRHAVEN—*Clogston, Luman
 *Dalrymple, George
 *Fair Haven Fdry. & Mach. Co.
 HIGHGATE—*Highgate Foundry Co.
 LUDLOW—*Warner, Edw. O.
 LYNDONVILLE—*Wood, Edwin T.
 MANCHESTER—*Hawley, E. J. & C. H. (Sand Feed & Stone Working Machy)
 MIDDLETOWN SPRINGS—*Gray's, A. W. Sons, Inc. (Agrl. Impls., etc.)
 *Gray, Fred E.
 MONTPELIER—*Colton Mfg. Co. (Saddlery Hdw.)
 *Lane Mfg. Co. (Woodworking Machy, Traveling Cranes, etc.)
 MORRISVILLE—*Morrisville Foundry Co.
 NORTH TUNBRIDGE—*Smith, R. C. & C. B.

POULTNEY—*Ruggles Machine Co. (Slate Mach'y, Iron, Aluminum & Brass Fdrs.)
 RANDOLPH—*Osgood & Roundy
 RUTLAND—*Frenier, J. H. (Sand Pumps & Stone Working Mach'y)
 *Grimm, G. H. & Co. (Evaporators, Steel Ranges, etc.)
 *Howe Scale Co. (Scales, Engines, Power Hammers, etc.)
 *Lincoln Iron Works (Stone Working Machy, etc.)
 *Patch, F. R. Mfg. Co. (Stone Working Machy, etc.)
 *Rutland Machine & Auto Co.
 *Steam Stone Cutter Co. (Stone Working Machy, etc.)
 *Stoddard Mfg. Co. (Creamery & Dalry Supplies, etc.)
 ST. ALBANS—*National Car Co. (Car Bldrs., etc.)
 *St. Albans Fdy. & Implement Co. (Agrl. Impls., etc.)
 SAINT JOHNSBURY—*American Fork & Hoe Co. (See Cleveland, O.)
 *Clark, Calvin L. (Threshing Machines, etc.)
 *Fairbanks, E. & T. & Co. (Scales, Power Hammers, etc.)
 *Hooker, O. V. & Son
 SOUTH SHAFTSBURY—Eagle Square Mfg. Co. (Steel & Iron Bedsteads, etc.)
 SPRINGFIELD—*Fellows Gear Shaper Co. (Gear Shaping Machines)
 *Gilman & Son (Last Lathes, etc.)
 *Jones & Lamson Machine Co. (Machine Tools, etc.)
 *Parks & Woollen Machine Co. (Textile Machy)
 *Vermont Snath Co.
 WALLINGFORD—American Fork & Hoe Co. (See Cleveland, O.)
 *Wallingford Mfg. Co. (Hdw. Specialties, etc.)
 WATERBURY—*Cooley Mfg. Co. (Gas Engines)
 WESTMINSTER STATION—*Abenague Machine Works (Gas & Gasoline Engines)
 WEST RUTLAND—*North, Aaron E. (Wafer Wheels)
 WILLIAMSTOWN—*Gregory, Jas. E. (Machinist)
 WINDSOR—Hubbard & McClary (Hdw. Specialties)
 *Windsor Machine Co. (Machine Tools, etc.)
 WINOOSKI—*Stevens Machine Co. (Wood Working Machy)
 WOODSTOCK—*Daniels Machine Co. (Agrl. Impls., etc.)

VIRGINIA.

ALEXANDRIA—*Aitcheson, J. & H.
 *Alexandria Iron Works (Iron Fdrs., etc.)
 *Emerson Steam Pump Co. (Steam Pumps, etc.)
 *Heupel, Halloran & Winship (Locks, Novelties, etc.)
 *Moore's, W. S. Sons
 BASIC CITY—*Virginia Stoves & Mfg. Co. (Stoves, etc.)
 BERKLEY—*Berkley Machine Works
 Old Dominion Iron Works
 BRIDGEWATER—*Miller, W. H.
 BRISTOL—*Harris, G. C. (Stoves, etc.)
 BUENA VISTA—*Buena Vista Foundry Co.
 CHARLOTTESVILLE—*Harris, R. F. & Co. (Agrl. Impls., etc.)
 *Marshall, George B., Jr.
 CHRISTIANSBURG—*Christiansburg Chilled Plow & Machine Works
 *Klpps & Fagg
 COVINGTON—*Covington Machine Co.
 CULPEPPER—*Nalle, T. E.
 DANVILLE—*Carter, J. T. (Machinist & Fdry.)
 *Westbrook, J. B. Foundry & Machine Co. (Elevators & Tobacco Machy, etc.)
 EMPORIA—*Emporia Machine Co.
 FINCASTLE—*Bowyer, O. M. (Machinist & Fdry.)
 FREDERICKSBURG—*Hunter, Chas. E. (Plows, etc.)
 GLADE SPRING—*Wildasin, C. E.
 GRAHAM—*Thistle Foundry & Machine Co.
 HAMPTON—*Hampton Mfg. Co. (Agrl. Implements, etc.)
 HARRISONBURG—*Bradley, P. & Sons, (Plows & Agrl. Implements)
 *Garber & Garber
 JAMES RIVER—*Farmer, L. & Son
 KEYSVILLE—*Keysville Plow Works (Plows, etc.)

LYNCHBURG—*†Bonsack Machine Co. (Machinists, etc.)
 *†Glamorgan Pipe & Fdry. Co. (Cast Iron Pipe, etc.)
 *Hicks, C. W. & Co.
 *†Hubard Foundry & Machine Works
 *†Jones-Terry Foundry & Machine Co.
 *†Lynchburg Foundry Co. (Cast Iron Gas & Water Pipe & General Foundry Work)
 *Lynchburg Machine Co.
 MANCHESTER—*†Southern Railway Shops
 MARION—*†Marion Fdry. & Machine Works
 MARTINSVILLE—*†Cheshire, J. W. & Sons
 MARION—*†Look & Lincoln (Inc.) (Agrl. Implements, Wagons, etc.)
 NEWPORT NEWS—†Gildersleeve, E.
 *†Newport News Ship Building & Dry Dock Co. (Steel Ships, Marine Engines, etc.)
 *Warwick Machine Co. (Machinists)
 NORFOLK—*†Atlantic Iron Works (Iron & Brass Castings of Every Description)
 *†Billups, C. Son & Co. (Agr'l Impl'ts, etc.)
 *Chesapeake Launch & Motor Co. (Marine Engines, etc.)
 †Donohue & Marsden
 *†Duvall, Geo. W. & Co.
 †Edmonds, Walter (Est. of)
 *†Elizabeth Iron Works (Engines, Boilers, Forgings, etc.)
 *†Etna Iron Works (Machinists, Iron & Brass Castings, Grate Bars, etc.)
 †Goodwin, T. W. & Co.
 †Howlett & Tatem.
 *Norfolk Woodworking Machinery Co. (Woodworking Mach'y, etc.)
 †Ridgewell & Hall
 *Smith & McCoy (Engines, etc.)
 *†White, S. R. & Bro. (Agrl. Impl'ts.)
 *†Whitehurst, R. W. Co. (Agrl. Impl'ts, etc.)
 NORTON—†Norton Foundry Co.
 PARKSLEY—*McCready, A. J.
 PETERSBURG—*†Ayers, J. R.
 *†Steere, E. & Son
 *†Titus, Elmer E. (Iron Fdry. & Basket & Veneer Cutting Machy., etc.)
 PHOEBUS—†Sayre Bros.
 POOLVILLE—†Pool, S. P.
 PORT REPUBLIC—†Port Republic Foundry
 PORTSMOUTH—*†Ornamental Iron & Wire Co. (Inc.) (Iron & Brass Fdrs., Builders' Iron Work, etc.)
 PURCELLVILLE—†Purcellville Fdry. Co.
 RADFORD—†Lynchburg Foundry Co. (Cast Iron Pipe, etc.)
 RICHMOND—*†American Locomotive Co. (See New York City)
 *†Call-Watt Co. (Plows, etc.)
 †Cameron Stove Co. (Stoves, etc.)
 *†Cameron-Tennant Machine Co. (Iron & Brass Fdrs., Light and Heavy Forgings & Machinists)
 *†Cardwell Machine Co. (Machinists & Fdrs.)
 *†Carr, Jas. W. (Brass Fdry.)
 *†Coffee Machine Co. (Machinists)
 †Continental Stove Co. (Stoves, etc.)
 *†Ford, Chas. B. Co.
 †Frictionless Metal Co. (Bearings, etc.) (See Chattanooga, Tenn.)
 *†Johnson, J. R. & Co. (Car Axles, etc.)
 *†McLaughlan, Thos.
 †Old Dominion Iron & Nail Works Co. (Iron Fdrs. & Nails & Bar Iron, etc.)
 *†Oliver Chilled Plow Works (Agrl. Implements)
 *†Pollard-Morris Co.
 *†Richmond Electric Co. (Dynamos, etc.)
 *†Richmond Engine & Pump Co.
 *†Richmond Fdry. & Mfg. Co. (Light Grey Iron & Brass, Rough and Machined Castings)
 *†Richmond Iron Works
 *†Richmond Mfg. Co. (Engines, Motors, etc.)
 *Richmond Pattern & Structural Iron Works
 *†Richmond Stove Co. (Stoves, etc.)
 *†Smith-Courtney Co. (Machinists, etc.)
 *†Southern Stove Works (Stoves, etc.)
 *†Starke's Dixie Plow Works (Agrl. Implements, etc.)
 *†Starkes Dixie Plow Works (Agrl. Implements, etc.)
 *†Strickland Machine Co. (Machinists & Fdrs.)
 *Tower-Binford Electric & Mfg. Co. (Electrical Specialties)
 *†Tredegear Co.
 *†Turner, Jno. & Son (Machinists)
 *Umlauf, J. A. (Elevators)
 †Virginia Pipe & Foundry Co.
 ROANOKE—*†Rockhill Fdry. & Machine Co.
 *†Virginia Bridge & Iron Co. (Bridge & Steel Structural Work, etc.)
 RURAL RETREAT—†Lobdell Car Wheel Co. (See Wilmington, Del.)
 SALEM—*†Camden Iron Works (Iron Fdrs, etc.)

*Comas Machine Co. (Cigarette Machy.)
 *†Salem Foundry & Machine Works (Flour Mill Mach'y)
 STAUNTON—*†Leader Plow Co. (Plows, etc.)
 *†Stockton, B. F. & Bros.
 SUFFOLK—*†Benthall Machine Co. (Peanut Picking Machines, etc.)
 *†Onsler, H. M.
 SUTHERLIN—*†Kerns, H. O.
 TOMSBROOK—†Powell's Fort Stove Co.
 VESUVIUS—*†Vesuvius Plow Works (Agrl. Impl'ts.)
 WAYNESBORO—*†Loth, W. J. Stove Co. (Stoves)
 *†Rife & Schoppert (Iron Fdrs. & Machinists)
 WINCHESTER—†Snapp, Mrs. F. R. (Iron Fdy)
 WYTHEVILLE—*†Wytheville Foundry Co.

WASHINGTON.

ABERDEEN—*†Douglas Bros.
 *†Vulcan Iron Works (See Seattle)
 ANACORTES—*†Anacortes Machine & Steam ASOTIN—*Brown, L. K. Boiler Wks.
 BALLARD—*†West Coast Iron Works
 BELLINGHAM—*Bellingham Engineering & Machine Works
 †Bellingham Foundry Co.
 *†Burpee & Letson (Ltd.)
 *Excelsior Carbide & Gas Machine Co. (Gas Machines, etc.)
 *†Industrial Iron Works
 †McParland Bros.
 *Walling, S. E.
 †Zeeve, J. W.
 CENTRALIA—*†Symons, J. P. Co.
 CHEHALIS—*†Groenke, C. F. & Son (Inc.)
 COLFAX—*†Carley Bros.
 DAVENPORT—*†Davenport Machy. Co.
 BLAINE—*†Rohrbacher, E. J.
 ELLENSBURG—*†Ellensburg Iron Works
 EVERETT—*†Schofield, Fred
 *†Summer Iron Works (Mining & Mill Machinery)
 †Washington Stove Works
 FERNDALE—*†Ferndale Iron Works
 HOQUIM—*†Lamb, F. H.
 KALAMA—*†Kalama Iron Works
 LACCONER—*†Wingren, Peter
 NEWPORT—*†Miner, F. W.
 NORTH YAKIMA—*†Burnham, E.
 *†Holstein, A.
 OAKESDALE—*†Northquist & Co.
 ODESSA—*†Wilburn, H. H.
 OLYMPIA—Allen, R. M.
 *Mason, C. Z.
 †Pioneer Iron Works
 PALOUSE—*†Halfhide, R. & Co.
 POMEROY—*†Pomeroy Blacksmith & Machine Works
 PROSSER—*†Prosser Iron Works
 RAYMOND—*†Raymond Foundry & Machine Works
 RITZVILLE—*†Landreth, W. H.
 SEATTLE—*American Engineering Works
 *American Machine Works
 *Biegert, J. C. Machine Works (Mach'ts)
 Campbell Bros. (Marine & Stationary Engines, etc.)
 *†Eagle Brass Works
 *Elliott Bay Iron Works
 *Enterprise Brass Foundry Co.
 *Erickson-Wyman Co. (Electrical Elevators, Dynamos, Motors, etc.)
 *Federal Valve Co.
 *Fraser, W. B. (Machinist)
 *Gifford & Dow (Machinists)
 *Hefernan Engine Works (Steam Engines, etc.)
 *Hutton, A. F. (Machinist)
 *Jones, Chas. C. & Co. (Machinists)
 *McCabe, W. L. (Machinist)
 *Marine Iron Works
 *Meese & Gottfried Co. (See San Francisco, Cal.)
 *†Moran Bros. Co. (Ship Builders, Marine Engines, Iron & Brass Fdrs., etc.)
 *N. & S. Electric Co. (Electric Motors, etc.)
 †N. & S. Foundry Co.
 *†Northwestern Iron Works (Iron Fdrs & Machinists & Marine, Mill & Mining Machinery)
 *†Olympic Foundry Co. (Iron Fdrs. & Machinery & Builders' Castings)
 †Philbrick Cutterhead Co. (Cutterheads)
 †Poppo & Knowles Co. (Furnaces, etc.)
 *Schaafe Machine Works
 *Seaborn Iron Works
 *Seattle Brass Co. (Brass Fdrs.)
 *Seattle Car Mfg. Co.
 *†Seattle Frog & Switch Co. (Frogs, Switches, etc.)
 *Seattle Iron & Wire Works
 *Seattle Machine Works (Machinists, etc.)
 *Tracy Bros.
 *Union Iron Works

*Uren, Andrew (Machinist)
 *†Variety Iron Works Co. (Iron Fdrs. & Machinists & Marine, Mill & Mining Machinery)
 *†Vulcan Iron Works (Iron & Brass Fdrs. & Mining Machy., etc.)
 †Washington Iron & Wire Works Co.
 *†Washington Iron Works Co. (Hoisting & Logging Engines, Castings, etc.)
 *†Westerman Iron Works (Iron Fdrs. & Machinists)
 *Wheeland Novelty Co. (Slot Machines)
 *Young, C. J.
 SEDRO-WOOLLEY — *†Sedro-Woolley Iron Works
 SNOHOMISH—*†Snohomish Iron Works Co.
 SOUTH BEND—†Gilchrist, John G.
 SPOKANE—*†Barnard Mfg. Co. (Flour Mill Machinery, etc.)
 †Klein, Henry A.
 *†National Iron Works (Inc.) (Mining Machinery, Castings, etc.)
 *Pacific Iron Works (Machinists)
 *Simmons & Sons (Builders Iron & Machine Work)
 *Spokane Ornamental Iron & Wire Works
 *Ulley, J. D.
 *†Union Iron Works (Mining Machinery, Engines, Castings, etc.)
 TACOMA—*†Atlas Fdry. & Machine Co.
 *Aton, Thomas
 *†Bamford, Jesse (Brass Fdry. & Machinist)
 *Brown Mfg. Co. (Mill Mach'y, etc.)
 *†Gawley, Fdry. & Machine Works
 *†Griffin Wheel Co. (Car Wheels). (See Chicago, Ill.)
 *Pacific Coast Elevator & Machine Co.
 *†Puget Sound Dry Dock & Machine Co.
 *†Puget Sound Iron & Steel Works
 †T. & B. Brass & Iron Foundry
 *†Tacoma Railway & Power Co.'s (Shops)
 †Tacoma Smelting Co. (Smelters, etc.)
 *†Washington Pipe & Foundry Co.
 THORNTON—*Hodgson Bros.
 WALLA WALLA—*†Hunt, Gilbert Co. (Agrl. Impl'ts, etc.)
 *Washington Weeder Works (Disc Cultivators)
 WALLULA—*†Lucas, -L. R. (Plows, Harrows, etc.)

WEST VIRGINIA.

BLUEFIELD—*†Superior Supply Co.
 CAMERON—*Cameron Tool Co.
 CHARLESTON—*†Acme Boiler & Machine Works
 *†Kanawha Mine Car Co.
 *Kelly Axe Mfg. Co. (Axes, etc.)
 *†South Side Foundry & Machine Works
 *†Strow-Patchell Machine & Foundry Co.
 †Ward, Chas. (Marine Boilers, etc.)
 CHARLESTOWN—*†Powhattan Brass & Iron Works (Brass & Iron Fdrs. & Brass Finishers' Plumbing Goods)
 Weller, J. F.
 CLARKSBURG—*†Hart Bros. Machine Co. (Engines & Saw Mills)
 *Osborne, W. B. Machine Co.
 *†Osborne's, J. F. Sons (Iron Fdrs. & Engines & Saw Mills)
 ELKINS—*†Elkins Foundry & Machine Co.
 FAIRMONT—*Aultman, T. G. (Steam Pumps, etc.)
 †Fairmont Foundry Co.
 *†Helmick Foundry & Machine Co. (Coal & Coke Oven Equipments, etc.)
 †Mountain City Stove & Mfg. Co. (Stoves, etc.)
 GRAFTON—*†Grafton Foundry & Machine Co.
 *Moran, Patrick
 *†Newlon Foundry & Machine Co.
 HINTON—*†Hinton Foundry, Machine & Plumbing Co.
 HUNTINGTON—*†American Car & Fdry. Co. (See St. Louis, Mo.)
 †Globe Foundry Co. (See Port Chester, N. Y.)
 *†Huntington Stove & Foundry Co. (Stoves)
 *†Ingram & O'Neal
 *†Perfect Gas Stove Mfg. Co. (Gas Stoves, etc.)
 KEYSTONE—*†Central Machine Works
 LOGAN—*Logan Repair & Machine Shop
 MANNINGTON—Phillips, Chas. Tool Co.
 *†West Virginia Boiler & Machine Works
 MARTINSBURG—†Matthews, T. E. & Bro.
 *Shaffer, George H.
 MORFANTOWN—†Romisch Mfg. Co.
 MOUNDSVILLE—†Mountain State Gas Stove & Mfg. Co. (Gas Stoves, etc.)
 *Three Barrell Gun Co. (Fire Arms)
 NEW CUMBERLAND—*†Davis-Price Foundry & Machine Co.
 NEW MARTINSVILLE—†Kotzebue & Sayre (Heaters, etc.)
 PARKERSBURG—*Acme Fishing Tool Co. (Oil Well Supplies)

*American Drilling Tool Co. (Oil Well Supplies)
 *Crotty, J. J. & Co.
 †Kelley, Michael (Iron Fdry.)
 *Kesselman & Co. (Machinists & Oil Well Tools, etc.)
 *National Sucker Rod Co. (Sucker Rods, etc.)
 †Parkersburg Casting Co.
 *Parkersburg Machine Co. (Machinists)
 †Stiles Foundry & Supply Co.
 *†United States Engine Co. (Gas Engines & Castings)
PIEDMONT—*†Piedmont Foundry & Machine Co. (Iron Fdrs. & Machinists)
POINT PLEASANT—*Point Pleasant Machine Works
SISTERVILLE—†Davin, J. J.
 *Finleyson, Jno.
 *McJunkin, E. J.
 *Sexton Machine Co.
SPENCER—*Runion, W. B. & Sons
WELLSBURG—*Teeples & Johnson
 *Wellsburg Heating & Foundry Co. (Hot Air Furnaces)
WHEELING—*Architectural Iron & Wire Works
 *†Center Foundry & Machine Co.
 Brick, Glass, Pottery & Rolling Mill Machinery, etc.)
 *†Co-operative Stove Co. (Stoves)
 *†Mahlke, R. H. Mold & Machine Works
 *Mutual Electric & Machine Co. (Dynamos & Motors, etc.)
 *†National Tube Co. (Riverside Iron Works)
 *Riverside Bridge Co.
 *Sands, H. S. Electric & Mfg. Co.
 *Spears & Riddle (Machine Tools)
 *Warwood Tool Co. (Tools, etc.)
 *Weisgerber & Ebeling Machine Co.
 *†Wheeling Mold & Foundry Co. (Glass House & Rolling Mill Machy. & Castings)
 *Wheeling Stove & Range Co. (Stoves, etc.)

WISCONSIN.

ADELL—†Helminger, Chas.
ALBANY—*Morgan & Whitcomb (Hardware Specialties)
ALGOMA—*†Woodsdale, J. & Co.
ANTIGO—*Pioneer Iron Works
APPLETON—*†Appleton Machine Co. (Paper & Pulp Mill Machinery)
 †Appleton Screen Plate Co.
 *Becker, John E. (Plows, etc.)
 *Double Power Mill Co. (Windmills, Agrl. Implements, etc.)
 *†Eagle Mfg. Co. (Portable Gas Engines, etc.)
 *Miller, Richard (Iron Tools, etc.)
 *†Valley Iron Works Co. (Iron & Bronze Castings & Wood Pulp Machy., Turbines, etc.)
ARCADIA—*Fernholz, Henry
ASHLAND—*†Bretting, C. G. Mfg. Co.
BARABOO—*Farnum, C. H.
 *Gollmar, George J.
BEAVER DAM—†Beaver Dam Malleable Iron Co.
 *†Beaver Dam Mfg. Co. (Agrl. Impls., etc.)
 *Harder, H. J. (Gas Engines)
 *†Malleable Iron Range Co. (Malleable Iron Ranges)
 *Ordway, A. F. & Son (Mill Machy)
 *†Rowell, J. S. Mfg. Co. (Agrl. Impls., etc.)
BELOIT—†Beloit Foundry Co.
 *†Beloit Iron Works
 *†Berlin Machine Works (Wood Working Machy)
 *Dowd, R. J. (Machine Knives, etc.)
 *†**FAIRBANKS, MORSE & CO.** (Gas Engines, etc. (See adv. index, end of book))
 *†Gaston's, N. B. Sons Co. (Scales, etc.)
 *†Gesley Mfg. Co. (Agrl. Impls.)
 †Hammel, A.
 Inman Concrete Bldg. Block Machine Co.
 *Mattison, C. Machine Works
 *†Thompson, J. & Sons Mfg. Co. (Agrl. Impls., Engines, etc.)
 *†Wood Turning Machine Co.
BFRLIN—*Johnson-Fortman Machine Works
BLACK EARTH—*Fesenfeld & Barber
BLACK RIVER FALLS—*†Thompson's Iron Works
BLOOMER—*Bloomer Machine Wks.
BOSCOBEL—Boscobel Plow Works (Plows, etc.)
 *†Ruka Bros Mfg. Co.
 *Sherwin, E. C. & Son (Harrows, etc.)
BRILLION—*†Brillion Iron Works
BRISTOL—*Curtis, Wells
BRODHEAD—*Holliday, F. L. & Co.
BROOKLYN—*Farmers' Mutual Benefit & Trading Co.

BURLINGTON—*Agnor & Bushman (Vending Machines)
 *§Burlington Brass Works (Valves & Brass Castings)
 *Lawton & Bushman (Tools, etc.)
 *†Wagner Bros.
 *Zwiebel, A., Jr.
CEDARBURG—†Cedarburg Foundry Co.
CEDAR GROVE—*†Wisconsin Foundry & Steel Works (Iron & Steel Castings)
CHILTON—*Vahldeck, A. H.
CHIPPEWA FALLS—*†Stanley, F. G. & C. A. Company
CLINTONVILLE—*Zachow & Besserdich
CLINTON—†Smith & Holtum Mfg. Co. (Castings, etc.)
COLBY—*Loos, E. D.
COLUMBUS—*Roberts, G. D. & Son
CORLISS—*Corliss Engineering Co.
 *†Wisconsin Engine Co. (Corliss Engines, Mining & Rolling Machinery & Castings)
CUDAHY—*†§Power & Mining Machinery Co. (Gas Engines, Mining Machinery, Boilers, Tanks, etc.)
DE PERE—*†Lawton, Chas. A. Co.
 †Western Steel & Iron Works
DORCHESTER—*Fleckenstein, V.
DOUSMAN—*Maxwell & Jenkins
EAST TROY—*Dickerman, Harry
EAU CLAIRE—*American Motor Co. (Gas Engines)
 *Drake, P. A.
 *†McDonough Mfg. Co. (Saw Mill Machinery, etc.)
 *†Northwestern Steel & Iron Works (Agrl. Implements, etc.)
 *†Phoenix Mfg. Co. (Saw Mill Machy., Steam Engines, etc.)
EDGERTON—*Burgi, F. F. Machine Works (Gasoline Engines, etc.)
ELKHORN—*Zwiebel & Griebel (Machinists)
ELLSWORTH—*†Rounce, J. S.
EVANSVILLE—*Baker Mfg. Co. (Wind Mills & Engines)
FOND DU LAC—*Abel Bros.
 *†Fond Du Lac Implement Co. (Agrl. Implements)
 *†Giddings & Lewis Mfg. Co. (Iron Fdrs. & Saw Mill Machinery)
 *Glasow, Fred (Plows)
 *Hass, H. E. (Gas & Gasoline Engines)
 *Quenton, Peter N. (Gas Engines)
FORT ATKINSON—*†Cornish, Curtis & Green Mfg. Co. (Creamery Mach'y, etc.)
 *Pounder, George H. (Harrows, etc.)
FOUNTAIN CITY—*Dressendorfer, Andrew
GILLETT—*†Frisbie-Wagner Mfg. Co.
GRAND RAPIDS—*†Grand Rapids Fdry. Co.
 *Krieger, Geo. F. & Co. (Machinists)
GREEN BAY—*†Green Bay Foundry & Machine Co.
 *Green Bay Machine Co.
 *Hudson & Sharp
 *Milwaukee Sander Mfg. Co.
 †Rothe, Jos. F. (Castings)
 *Straubel Machine Co.
HARTFORD—*†Hartford Plow Co. (Plows, etc.)
HARTLAND—*Ordway, E. C.
HORICON—*†Van Brunt Mfg. Co. (Agrl. Implements, etc.)
HURLEY—*†Twin City Iron Wks.
JANESVILLE—*†Automatic Machine Co. (Clamps, Bolts, Drivers, etc.)
 *†Badger State Machine Co. (Punching & Shearing Machy.)
 *Bicknell Mfg. & Supply Co. (Power Machinery, etc.)
 *†Janesville Machine Co. (Agrl. Impls., etc.)
 *Kent Corn Planter Co. (Corn Planters, etc.)
 *†New Doty Mfg. Co. (Punching & Shearing Mach'y)
 *†Rock River Machine Co. (Steel Splitting Shears)
 *Strickler, Frank B. (Hay Tools, Hdwe. Specialties, etc.)
JUNEAU—*Brensiike, John
 *Briemann, Chas. G.
KAUKAUNA—*Hochne, Fred
 *†McLean, Alex. W. & Co.
KENOSHA—*Arnold, W. G.
 *§Badger Brass Mfg. Co. (Automobile Lamps, etc.)
 *†Frost Mfg. Co. (Plumbers' Supplies, Brass Goods, etc.)
 *†Jeffrey, Thos. B. & Co. (Automobiles)
 †Lippert, Peter, Iron Works
 *†Simmons Mfg. Co. (Metallic Bedsteads, etc.) (See Chicago, Ill.)
 *Visible Typewriter Mfg. Co. (Typewriters)
 *Wells, Frank L. (Machinist)
KEWASKUM—*Rommel, Nicholas (Machinist)
KEWAUNEE—†Hamacek, Frank (Iron Fdry.)
 †Kewaunee Iron Works
KILBOURN—*†Kilbourn Machine Co.
LA CROSSE—*Benton, Thos. P. & Son (Dynamos, Engines, etc.)
 *Close, Chas. T. (Gasoline Engines)
 *†James, Alfred

*†La Crosse Plow Co. (Plows, etc.)
 *†La Crosse Threshing Machine Mfg. Co.
 *La Crosse Well Drill Works (Well Machy)
 *Ott, Benj & Sons (Bark Shaving Mills)
 *Pederson, C. & Son
 *†Pierce, F. L. (Mill Machinery)
 *†Smith Mfg. Co. (Machinists & Wagons)
 *Stamping & Tool Co. (Steel Novelties, Dies, etc.)
 *†Summit Foundry Co. (Stoves)
 *Tomasak, Lucas (Plows)
 *†Torrance, Jno. & Son (Fdry. & Furnaces)
 †Trepte, B. (Ornamental Iron Work)
LAKE MILLS—*Fargo Creamery Supply House (Creamery Mach'y)
LANCASTER—*Hyde, E. H. (Machinist)
LOMIRA—*Zeidler Lamp & Brass Co. (Gasoline Torches)
LOYAL—*Etta Bros.
MADISON—*American Plow Co. (Agrl. Implements)
 *†§Fuller & Johnson Mfg. Co. (Agrl. Implements, Gasoline Engines, etc.)
 *§**GISHOLT MACHINE CO.** (Mach. Tools, Vertical & Horizontal Boring Mills, Turret Lathes, Brass & Iron Foundries) (See adv. index, end of book)
 *†King & Walker Co. (Printing Presses, Power Shears, etc.)
 *Madison-Kipp Lubricator Co. (Lubricators)
 *Newberry & Piper
 *†Northern Electrical Mfg. Co. (Dynamos, Generators, etc.)
 Schoelkopf Mfg. Co. (Lubricators)
 *Schultz & Knabe
 *Steinle Turret Machine Co. (Turret Lathes)
MANAWA—*Ory Mfg. Co.
MANITOWOC—*Aluminum Fdry. Co. (Aluminum Castings, etc.)
 *†American Seating Co. (See Chicago, Ill.)
 *Dedrich, N. (Special Mach'y, etc.)
 *†Richards Iron Works (Iron Fdry., etc.)
 *Gateman Mfg. Co. (Agrl. Impls., etc.)
 *Gunnell Machine Co.
 *†Smalley Mfg. Co. (Agrl. Impls., Plows, etc.)
 *Willott, J. & Sons (Edge Tools, etc.)
MARINETTE—*Sandlund, Peter
 *†Stevens, A. W. Co. (Agrl. Impls., Engines, etc.)
MARSHFIELD—*†Lang & Scharmann (Iron Fdrs., etc.)
 *Mettelka, John J.
MARYTOWN—*Langenfeld, Jno.
MAUSTON—*Strong, H. C.
MAYVILLE—*Christian, Fred
MEDFORD—*†Campbell & Anschutz
MENASHA—*†Mockley Bros. & Sailor
 *†Paul-Luttman Co.
 *Sailor, Whitmore, Machine Co.
MENOMONEE FALLS—*†Rowell, I. B. Co. (Agrl. Impls., Gasoline Engines, etc.)
MENOMONIE—†Anderson, Chas. J.
 *†Globe Iron Works Co. (Gasoline Engines, etc.)
MERRILL—*†Merrill Iron Works
MILWAUKEE—*Acme Pattern & Mfg. Co., 144 Clinton
 *†**ALLIS-CHALMERS CO.** (Mining Machinery, Steam Turbines, Engines, Pumps, etc.) (See adv. index, end of book)
 *†American Bridge Co., 17th st & St. Paul av. (See also New York City)
 *†American Foundry & Furnace Co. (Hot Air Furnaces, etc.) (See Bloomington, Ill.)
 *Aston, Thos. & Son (Grey Iron Castings), S Pierce & 24th av
 *Badger Meter Mfg. Co., 261 3d
 *Barth Elevator Co., 15th & St. Paul
 *Barth Mfg. Co. (Jacks, etc.), 348 Milwaukee
 *Beaver Mfg. Co. (Gas & Gasoline Engines), 237 Oregon
 *†Brand Stove Co. (Stoves), 295 6th
 *†**BRODESSER ELEVATOR MFG. CO.** (Elevators & Rolling Mill Mach'y) (See adv. index, end of book)
 †Burnham, Clinton Foundry Co. (Iron Fdrs., etc.), 93 Mason
 *Chain Belt Co. (Chain Belting, Conveyors, etc.), 766 Park
 *†Colnik, C. Mfg. Co. (Builders' Iron Work), 223 8th
 *§**CUTLER-HAMMER MFG. CO.** (Elec. Specialties) (See adv. index, end of book)
 *†Davis Bros. Mfg. Co. (Steam Engines, etc.), 576 Clinton
 *§Dengel, F. R. Mfg. Co. (Plumbers' Goods), 336 4th
 *Durant, W. N. Co. (Speed Indicators, Counting Machines), 317 Milwaukee
 †Dutcher, J. A. & P. E. Co. (Steel Castings, etc.), 670 Kinnikinnic av
 *Economical Tool Co. (Expansion Reamers, Tools, etc.), 154 Woodward

*†Falk Co. (Steel Castings & Railroad Specialties), Menominee Valley ft 30th
 *†Filer & Stowell Co. (Steam Engines & Pumps, Saw Mill Mach'y, etc.)
 *Forward Iron Works, 30th & Meinecke av
 *†Fraser Co. (Engines & Milling Machines), 667 E Water
 *†Fuller-Warren Co. (Stoves, etc.), 32d & Wright
 *Galland-Henning Pneumatic Malting Drum Mfg. Co. (Brewers' & Malsters' Machy), 32d & Wright
 †Gerlinger Steel Casting Co. (Steel Castings), 59th & National av
 †Greenslade Foundry Co. (Iron Fdrs.), Jackson & Corcoran av
 *Hackendahl & Schmidt (Bldrs., Iron Work, etc.), 1513 St. Paul av
 *Heller, Siegfried (Electric Elevators & Hoisting Mach'y), 290 5th
 *Henes & Kelier Co. (Bottling Machy), 60 19th
 *§Hewitt Mfg. Co. (Brass & Bronze Castings), 241 Greenfield av (See Chicago, Ill.)
 *Hide & Leather Working Mach. Co., 653 E Water
 *†§Hoffmann, B. Mfg. Co. (Iron & Brass Fdrs., Steam Pipe Fittings & Steam & Plumbing Goods), 257 6th
 *†§Hoffmann-Billings Mfg. Co. (Iron & Brass Fdrs. & Steam Fitters' & Plumbers' Supplies), 96 2d
 *Holt Electric Co. (Electrical Specialties), 285 Virginia
 *†International Harvester Co. of America. (See Chicago)
 *§Johnson Service Co. (Heat Regulators, etc.), 149 Michigan
 *Kemp Smith Mfg. Co. (Machine Tools, etc.), Linus & Woodward
 ***KIECKHEFER, A. ELEVATOR** Co. (Electric, Hand & Power Elevators), 1026 St. Paul av. (See adv. index, end of book)
 *Kopperud, Andrew (Machinist), Madison & Barclay
 *†§Kruecke Bros. Mfg. Co. (Brass Fdrs., Brewers' Pumps, Castings of All Kinds), 515 Park
 *Krueger Mfg. Co. (Machinists), 50 Biddle
 *Kunz, J. L. Machinery Co., 1242 Booth
 *§Lamp & Miller Mfg. Co. (Brass Fdrs. & Finishers), 509 Cedar
 *†Levalley Mfg. Co. (Grey Iron & Steel Castings & Machinists)
 *†Liudemann, A. J. & Hoverson Co. (Stoves), 348 Florida
 *†Lindemann, J. P. & Sons (Stoves), 5000 State
 *§Loeffelholz Co. (Railroad Car, Cabinet & Office Trimmings, etc.), 170 Clinton
 *Logeman Bros. Co. (Hydraulic Presses, etc.), 284 Oregon
 *Luitink & Sons Mfg. Co. (Door Hangers, etc.), 775 18th
 *Lutter & Gies (Machinists), 258 Lake
 *Mechanical Appliance Co. (Electric Motors & Generators), East End of Stewart
 *Merkel Motor Co. (Motor Cycles, etc.), 1095 26th av
 §Milwaukee Aluminum & Mfg. Co. (Aluminum & Brass Castings), 165 Barclay
 *Milwaukee Auto Engine & Supply Co., 706 Winnebago
 *§Milwaukee Brass Mfg. Co. (Plumbers' Brass Goods), 241 Lapham
 *Milwaukee Bridge Co. (Steel Structural Work, etc.), 34th & Auer av
 *Milwaukee Cutting Die Co. (Cutting Dies, etc.)
 *Milwaukee Gas Stove Co. (Gas Stoves & Ranges, etc.), 139 Burrell
 *Milwaukee Hay Tool Co., Layton Park
 *Milwaukee Machinery Co., 31st & Walnut
 †Milwaukee Malleable & Grey Iron Works, Layton Park
 *Milwaukee Metal Working Co., Montgomery bldg
 *Milwaukee Motor Co. (Gas & Steam Engines), 613 Clybourn
 §Milwaukee Ornamental Metallic Mfg. Co. (Bronze, Brass, Aluminum Castings, etc.), 316 Lake
 †Milwaukee Steel Foundry Co., S Water & Virginia
 *†Milwaukee Stove & Foundry Co. (Stoves, etc.), 130 Water
 *Milwaukee Valve Co. (Valves & Steam Specialties, etc.), 881 Robinson av
 *†Mueller, L. J. Furnace Co. (Furnaces & Heating Apparatus, etc.), 197 Reed
 *Munkwitz, Ewd. H. Co. (Machinists), Muskego av & S Canal

*Munn Hdwe. & Mfg. Co., 132 Mason
 §Murphy Specialty Co., 604 Grand av
 *Nash, J. M. (Chair, Wood Polishing & Woodworking Machinery), 842 30th
 ***NATIONAL BLOWER WORKS** (Blowers, Fans, etc.), 17th & St. Paul av. (See adv. index, end of book)
 *†National Brake & Electric Co. (Dynamometers, Motors, Castings, Air Brakes, Compressors, etc.), Park Pl
 *National Machine Co. (Lathes, Slide Rests, etc.), 660 Washington
 *Netzow, Chas. F. Mfg. Co. (Sewing Machines, etc.), 324 E Water
 *†Nordberg Mfg. Co. (Pumping Machy, etc.), 732 Greenbush
 *Northern Novelty Works (Patterns & Polishers), 73 13th
 †Northwestern Malleable Iron Co., 766 Park
 Northwestern Mfg. Co. (Dynamometers & Motors), Clinton & Madison
 †Nortmann & Duffke Foundry Co. (Crucible Steel & Iron Castings, etc.), Layton & 26th avs
 *Obenberger, John Co. (Hand Cranes, Trolleys, etc.), 224 Lake
 *†Pawling & Harnischfeger (Electric Cranes & Hoists, etc.), National & 38th avs
 *Pfeiffer & Smith (Machinists), 493 Barclay
 †Prime Steel Co. (Crucible Steel Castings), Chicago rd
 *Prinz & Rau Mfg. Co. (Brewers & Malsters & Flour Mill Mach'y, etc.), 659 E
 *Ruesch, Jacob, 485 B'way Water
 *§Rundle-Spence Mfg. Co. (Steam Enamelled Iron & Plumbing & Brass Fdrs., etc.), 63 2d
 *Schneck Machine Co., 811 St. Paul av
 *Schwab, Ph. & Anderson Co., 16th & Canal
 *†Schwab, R. J. & Sons Co. (Iron Fdrs. & Machinists & Hot Air Furnaces)
 *Schwalbach, M. & Sons, 426 9th
 *†Sheriffs Mfg. Co. (Propeller Wheels & Marine Engines, etc.), 124 Barclay
 *Sight Feed Oil Pump Co. (Sight Feed Oil Pumps, etc.), 1148 Holton
 *Skobis Bros. (Builders' Iron Work), 951 30th
 *Smith, A. O. Co. (Automobile Gears, Steel Frames), Park & Clinton
 †Smith, Geo. H. Steel Casting Co. (Steel & Manganese Steel Castings), 500 Clinton
 *Smith Machine Co. (Concrete Mixers, etc.), 26th & Canal
 *Smith & Post Co. (Cold Saws, Rock Crushers, etc.)
 *Sonnichsen Specialty Co., 128 Sycamore
 †South Side Steel & Malleable Casting Co. (Malleable Iron Founders)
 *†Speich Stove Repair Co., 130 W Water
 *§Spence Mfg. Co. (Brass Fdrs. & Plumbing Goods), 279 Park
 *§Standard Brass & Machine Works, 1820 St. Paul av
 *Steam Appliance Co. (Steam Appliances)
 *Stehling, Chas. H. Co., 508 Commerce
 *†Thomas Furnace Co. (Hot Air Furnaces & Iron Fdrs.), 740 Kinnikinnic av
 *†Toepfer, W. & Sons (Iron Works), 76 Menomonee
 *†**VILTER MFG. CO. (Corliss Engines, Ice Machines, Brewery & Bottling Machinery, etc.), 1046 Clinton.** (See adv. index, end of book)
 Wagner, Adolph F. (Builders' Iron Work), 514 Market
 *Weiles, Fred A. (Calipers, etc.), 419 Sycamore
 *†Western Hardware & Mfg. Co. (Gas Engines, Stoves, etc.), Dover pl & Deer
 *†Western Malleable & Grey Iron Mfg. Co. (Malleable & Grey Iron Castings, Gasoline Engines, etc.), 130 Burrell
 §Windsor Mfg. Co., 570 Clinton
 *Wisconsin Bridge & Iron Co. (Steel Structural Work, etc.), Pabst bldg
 *Wisconsin Machinery & Mfg. Co., Canal & Muskego
 †Wisconsin Malleable Iron Wks., S Bay
 *MONROE—†Lanz, A. & Sons (Machinists)
 *NEENAH—†Aylward Sons Co.
 *†Bergstrom Stove Co. (Stoves)
 *Jamison, Robt. (Machinist)
 *Johnson Bros. Machine Co.
 *Johnson & Wells Machine Co.
 §Neenah Brass Works
 *NEILLSVILLE—*Wolff & Korman (Machinists)
 *NEW HOLSTEIN—*Lauson, John Mfg. Co. (Gas & Gasoline Engines, etc.)
 *NEW LONDON—*Beyer, Geo.
 *†Madson, H. P.

NORTH MILWAUKEE—*Avery Scale Co. (Scales of All Kinds)
 *†Luther Bros. Co. (Sickle Grinders & Hardware Specialties)
 *†Wagner, E. R. Mfg. Co. (Baby Carriages, etc.)
 OCONOMOWOC—†Moldenhauer, F. W.
 SHKOSH—†Barnes, J. A. Machinery Co.
 *†Challoner Co. (Mach'y)
 *†Curtis, E. C. Co. (Condensing Feed Water Heaters, etc.)
 *†Davis-Hanson Co. (Pumps)
 *†Doman, H. C. Co. (Boats & Gasoline Engines)
 *Gillingham & Son (Machinists)
 *†Hayes, E. B. Machine Co. (Woodworking & Saw Mill Mach'y)
 *Kaufman, Chas.
 *Meelins, E. E. & H. T. (Slot Machines)
 *Oshkosh Tool Mfg. Co. (Logging Tools, etc.)
 *Ransom Mfg. Co. (Wet Tool Grinders)
 *Termaat & Monahan Co. (Gasoline Engines, etc.)
 *Walker-Challoner Co.
 *Wilkin, Challoner & Co. (Saw Mill Machinery)
 PLATTEVILLE—§Galena Iron Works Co. (See Galena, Ill.)
 *Keystone Driller Co. (See Beaver Falls, Pa.)
 *PLYMOUTH—†Thurman, F. & Co.
 *Wolf, Henry F.
 *PORTAGE—†Baird & Slinger
 PORT WASHINGTON—†Gilson Mfg. Co.
 †Martin Bros.
 *Western Implement Co. (Disc & Tool Grinders, etc.)
 §Wisconsin Brass Co.
 *PRAIRIE DU CHIEN—*Beuthin, Chas.
 *PRINCETON—*Mueller, Eric
 *RACINE—*Advance Mfg. Co. (Hdwe. Specialties)
 *American Mangle & Roller Co. (Laundry Machinery)
 *†American Skein & Foundry Co. (Jack Screws, etc.)
 *Atlas Mfg. Co.
 *Barker Feeder Co.
 †Belle City Malleable Iron Co.
 *†Belle City Mfg. Co. (Agl. Impls., etc.)
 *Bishop, A. W. & Son (Machinists & Fishing Reels, etc.)
 *Brown, W. P. Mfg. Co. (Horse Bits, Hardware Specialties, etc.)
 *†Case, J. I. Threshing Machine Co. (Agl. Impls.)
 *†Case, J. I. Plow Works (Plows)
 §Chalmers, Peter
 *Driver, C. H. (Sand Papering Machines)
 *†Foster & Williams Mfg. Co. (Agl. Impls., etc.)
 *Freeman, Geo. B. Mfg. Co. (Bits, Neck-yokes, etc.)
 *†Freeman, S. & Sons Mfg. Co. (Agl. Impls., Windmills, etc.)
 *Gorton, Geo. Machine Co. (Engraving Machines, etc.)
 *Harvey Spring Co.
 *†Holbrook-Armstrong Iron Co.
 †Lakeside Malleable Castings Co.
 *†Mitchell & Lewis Co. (Machinists & Fdrs., Farm & Spring Wagons)
 *†Pierce Engine Co.
 *Piggins Bros.
 †§Racine Brass & Iron Co.
 *Racine Engine & Machine Co. (Confectionery Machinery & Vertical Engines)
 *Racine General Mfg. Co. (Hdwe. Specialties, etc.)
 †Racine Malleable & Wrought Iron Co.
 *Racine-Sattley Co. (Agl. Impls., Wagons, etc.)
 *Reliance Iron & Engine Co. (Gasoline Engines)
 *Rowlands Machine Co. (Moulding Machy.)
 *Tecktonius, E. C. Mfg. Co. (Hoop, Lugs, Bolster Springs, etc.)
 *†Wood, Lyman Mfg. Co. (Stove Repairs, Saddlery, Hardware, etc.)
 *RANDOLPH—*Nutting, C. A.
 *Smith, Geo. B.
 RHINELANDER—†Rhinelander Iron Co.
 *RICE LAKE—†Peters, J. H.
 RIPON—†Shaefer, W. E. (Iron Fdr. & Machinist)
 SEYMOUR—†Dean Mfg. Co.
 *Lotter Bros.
 *SHEBOYGAN—*Globe Foundry & Machine Co. (Feed Cutters, Feed Mills, Saw Machines, etc.)
 *†Jenkins Machine Co. (Chair Mach'y & Bicycles, etc.)
 *†Kohler, J. M. Sons Co. (Cast Iron Enamelled Sanitary Ware & Castings)
 *Myers Machine Co.
 *Optenberg & Sonneman (Radial Drills, etc.)
 *†Vollrath, J. J. Mfg. Co. (Enamelled Sanitary Ware)

SHEBOYGAN FALLS—*†Armbruster, Otto
*†Falls Machine Co. (Machinery)
SOUTH MILWAUKEE—*†Bucyrus Co. (Steam
Shovels & Dredges, etc.)
*†Stowell Mfg. & Fdry. Co. (Grey Iron
Castings, Door Hangers & Hardware Spec-
ialties, etc.)

SPARTA—*†Sparta Iron Works Co.
SPRING VALLEY—*†Kamke, Ferdinand
STEVENS POINT—*†Cook, R. A. (Iron &
Brass Fdry. & Saw Mill Mach'y., etc.)
*†Rice, John Foundry & Machine Works
*†Sustins, F. A.
STOUGHTON—*†Mandt Wagon Co.
*†Stoughton Wagon Co. (Plows, etc.)
STURGEON BAY—*†Hunsader, John Machine
Company
*†Ives Bros.
SUPERIOR—*†Duplex Mfg. Co. (Windmills &
Engines, etc.)

*†Northwestern Machine Works
*†Strothman Iron Co. (Iron Fdrys., Mill &
Mining Mach'y., Castings, etc.)
*†Superior Iron Works (Engines & Dredg-
ing Mach'y., Iron & Brass Castings,
Swinging Engines, etc.)
*†Superior Ship Building Co. (Ships &
Marine Engines, etc.)
†U. S. Cast Iron Pipe Foundry Co. (See
New York City)

*†Wright Foundry & Machine Works
TOMAHAWK—*†Tomahawk Iron Works
TREGO—*†Fielding, T. H.
TWO RIVERS—*†Becker Mfg. Co.
*†Kahlenberg Bros. (Machinists)
WALDO—*†Hein & Timmer
WASHBURN—*†Steinert, R. & Co.
WATERTOWN—*†Biefeld, O. & Co.
*†Brandt-Dent, Edw. J. Co. (Iron & Brass
Fdrys. & Special Machinery, etc.)

*†Dornfeldt-Kunert Co.
WAUKESHA—*†Blair Bros.
*†Ladewig & Stark Co.,
*†Modern Steel Structural Co.
†Waukesha Malleable Iron Co.
WAUPACA—*†Roch & Suks
WAUPUN—*†Althouse-Wheeler Co. (Windmills
& Pumps, etc.)

WAUSAU—*†Murray, D. J. Mfg. Co. (Saw Mill
Machinery)
*†Wausau Foundry & Machine Shop
WEST ALLIS—*†Allis-Chalmers Co. (Corliss
Engines, Mining Mach'y., etc.)
†Gerlinger Steel Casting Co. (Steel Cast-
ings, etc.)

*†Prescott, F. M. Steam Pump Co. (Pump-
ing Mach'y., etc.)
*†West Allis Malleable Iron & Chain Belt
Co. (Chain Belt & Malleable Iron Cast-
ings)

WEST BEND—*†Gehl Bros. Mfg. Co. (Agrl.
Implts., Grey Iron Castings, etc.)
WEST DE PERE—*†De Pere Boiler & Mfg.
Co.
WEYAUWEGA—*†Haire, James A.
WHITEWATER—*†Whitewater Machine Co.
(Agrl. Implts., etc.)

YORKVILLE—*†Gilmore, Howard S.

Machinists' Tools & Supplies (Dealers)

(See also Mill & Factory Supplies)
For manufacturers of Machinists' Tools &
Supplies, see the specific article required.

CALIFORNIA.

LOS ANGELES—Wigmore, Jno. & Sons Co.
SAN FRANCISCO—Alexander-Yost Co. (Tools),
401 Market
Compressed Air Machinery Co., 24 1st
Harron, Richard & McCone, 21 Fremont
Henshaw, Bulkley & Co., Fremont & Mis-
sion
Hicks, Jas. L., 667 Mission
Pacific Tool & Supply Co., 105 1st
Tatum & Bowen, 34 Fremont

COLORADO.

DENVER—Hendrie & Botthoff Mfg. & Supply
Co., Denver
Scott Supply & Tool Co., 1725 Blake

CONNECTICUT.

BRIDGEPORT—Hawley, T. & Co., 549 Water
Lyon & Grumman, 1023 Main

DISTRICT OF COLUMBIA.

WASHINGTON—Lambie, Jas. B. Co. (Inc.)
(Fine Tools, etc.), 1415 New York av, N W

GEORGIA.

AUGUSTA—Lombard Iron Works & Supply Co.

ILLINOIS.

BLOOMINGTON—Read, G. H. & Bro.
CAIRO—Reed, J. B.
CHICAGO—Banner, Thos. B., 57 Kinzie
Besley, Chas. H. & Co., 15 N Canal
CARPENTER, GEO. B. & CO., 202
S Water. (See adv. index, end of book)
Chicago Machine Tool Co. (Machine Tools &
Machinery)

Crerar, Adams & Co., 11 5th av
Harris, Samuel & Co., 25 S Clinton
Henlou & Hubbell, 63 N Jefferson
Hill, Clarke & Co., 12 S Canal
Hodge & Homer Co., 47 W Randolph
Kerr, J. W. Co., 47 S Canal
McLeod Co., 73 Fulton
Machinists' Supply Co., 16 S Canal
MANNING, MAXWELL & MOORE
22, 24 & 26 S Canal. (See adv. index,
end of book)

Marshall & Huschart Machinery Co., 62 S
Canal
Scully Steel & Iron Co. Halsted & Way-
mau Sta.

Seehausen, Wehrs & Co., 11 S Canal
Walsh, Jno. F., 25 W Lake
WHITMAN & BARNES MFG. CO.
(See adv. index, end of book)
JOLIET—Barrett Hardware Co.

INDIANA.

EVANSVILLE—Bush, E. M. Hardware Co.
(Tools)
INDIANAPOLIS—Chaudler, Geo. M. (Lathes,
Planers, Shapers, Punches, Shears, etc.)
Vonnegut Hardware Co., 120 E Wash

KENTUCKY.

LOUISVILLE—Ahrens & Ott Mfg. Co.

LOUISIANA.

NEW ORLEANS—McArdle-Parker Machinery
Co., 514 Camp

MAINE.

PORTLAND—Edwards & Walker Co. (Tools,
etc.)

MARYLAND.

BALTIMORE—Aumen Machinery & Supply
Co., 324 N Holliday

Basshor, T. C. Co., 28 Light
Brown, Jno. & Sons, 722 E Pratt
Carey Machinery & Supply Co.
Coggins & Owens, 19 S Charles
Crook-Horner Co., 301 N Howard
Cuyler & Mohler, 611 William
Spedden Supply Co., 913 S B'way
Wallace & Gale
CUMBERLAND—McKaig, Merwin

MASSACHUSETTS.

BOSTON—Brown Wales Co. (Supplies), 83 Pur-
chase

Chandler & Farquhar Co., 36 Federal
Chase Parker & Co., 81 Pearl
Cutter, Wood & Stevens Co., 68 Pearl
Dodge, Haley & Co., 212 High
Fitts, Frank E. Mfg. & Supply Co., 88 Pur-
chase
Fitz, Dana & Co., 110 North
Hill, Clarke & Co.
Jewett, J. D. Co. (Hardware, Tools & Sup-
plies), 168 Wash'n

MANNING, MAXWELL & MOORE
128 Oliver. (See adv. index, end of book)
WHITMAN & BARNES MFG. CO.
(See adv. index, end of book)
Wilkinson, A. J. & Co. (Hardware, Tools &
Supplies), 180 Wash'n

MICHIGAN.

BAY CITY—Jennison Hdw. Co.
DETROIT—Bush-Campbell Co.
Detroit Edge Tool Works, Wight c Mt
Elliott av
Motch & Merryweather Machinery Co.
(Machinery & Tools), 707 Lakeside av
Rayl, T. B. Co., 112 Woodward av
Strelinger, Chas. A. Co., 98 Bates
Woodbridge & Coelius Mach. Co., 127 Brush
Wormer, C. C., Machinery Co., 97 Wood-
bridge

MINNESOTA.

MINNEAPOLIS—Morison, W. K. & Co., 249
Nicollet av, Minneapolis, Minn.
Northern Machinery Co., 217 S 3d
ST. PAUL—Robinson & Cary Co., 4th & Wa-
coute

MISSOURI.

KANSAS CITY—Brunner, H. J. Hardware Co.,
Great Western Mfg. Co., 910 Walnut
Lewis Supply Co.

WHITMAN & BARNES MFG. CO.
(See adv. index, end of book)
ST. LOUIS—Bowman, Albert B., 720 N 2d

Cahill, Swift Mfg. Co., 20 S 12th
Colcord, W. R. Machinery Co., 821 N 2d
Crane Co. (Est. 1855). (See adv. index &
branch offices, end of book)

FAIRBANKS, MORSE & CO. (See
adv. index, end of book)

Handlan-Buck Mfg. Co., 212 N 3d
Johnson, Wm. C. & Sons, 513 N 2d
Linley, E. H. Supply Co., 714 N 2nd
MANNING, MAXWELL & MOORE
305 Frisco, bldg. (See adv. index, end
of book)

Nelson, N. O. Mfg. Co., 8th & St. Charles
Rumsey, L. M. Mfg. Co., 806 N Main
Rumsey & Sikemeier Co., 1900 Pine
Shumons Hardware Co., B'way & St.
Charles

St. Louis Machinists' Supply Co., 421 Frank-
lin av
Sligo Iron Store Co., 945 N 2d
Thompson, C. A. (Machines & Tools), 516
N 3d

Western Iron & Supply Co., 938 N 2d

NEW JERSEY.

NEWARK—Macknet & Doremus, 796 Broad
Roe & Conover, 200 Market

NEW YORK.

BUFFALO—Beals & Co., 44 Terrace
Budd, T. A., 428 Ellicott sq
Buffalo Wholesale Hardware Co., Wash'n &
Fairbanks Co., 210 Main S Division
Hoffeld, R. & Co., 65 Carroll
New England Machinery Co., 101 Erie
Ruckel, J. H. & Son, 81 Main
Walbridge & Co., 392 Main
Weed & Co., 292 Main

Borough of Brooklyn

BROOKLYN—Birkett, Wm. H., 68 Myrtle av
Metropolitan Supply Exchange & Mfg. Co.,
26 Court
Purvis & Shelton, 241 Plymouth
Wilfert, Jno. & Co., 490 Bushwick av

Boroughs of Manhattan & Bronx

NEW YORK—Beggs, Jas. & Co., 109 Liberty
Behringer, Edw. A., 80 Warren
Chatwin, Alfred, Supply Co., 149 Centre
Du Bois, F. N. & Co., 245 9th av
Eustace, Edw. C., 54 Center
Fairbanks Co., 186 Lafayette
Foster, Walter H., 126 Liberty
Fox Bros., 126 Lafayette
Frasse Co., 134 Liberty
Frasse, Peter A. & Co., 94 Fulton
FREVERT MACHINERY CO., 18
Dey. (See adv. index, end of book)
Garrett, W. D. & Co., 180 Fulton
Garvin Machine Co., 137 Varick
Gesswein, F. W. Co. (Fine Tools & Sup-
plies of all kinds), 39 John. N. Y.
HAMMACHER, SCHMEMMER &
Co., 133 4th av. (See adv. index, end
of book)

HUSSA, BENNETT & CO., 123 Lib-
erty. (See adv. index, end of book)
Hussey, E. J. & Co., 80 John
Hussey, McCanu & Co., 37 Dey
Leonard & McCoy, 161 Wash'n
McCabe, J. J., 14 Dey
MANNING, MAXWELL & MOORE.
85, 87 & 89 Liberty. (See adv. index, end of
book)
Montgomery & Co., 105 Fulton
Niles-Bement-Poud Co., 111 B'way
Patterson, Gottfried & Hunter (Ltd.), 146
Centre

PRENTISS TOOL & SUPPLY CO.,
115 Liberty. (See adv. index, end of book)
REICHEL, E. P. & CO. (Tools,
Files & Supplies), 24 John. (See adv. in-
dex, end of book)

Rogers, Henry A. Co., 19 John
ROSSITER, MACGOVERN CO.
(Electrical Machinery), 17 Battery pl.
(See adv. index, end of book)
Sherman Brown Clements Co., 78 Murray
STRONG MACHINERY & SUPPLY
Co., 48 Franklin. (See adv. index, end of
book)

Tucker, Cummings H., Jr., 135 Greenwich

TUOHY BROS. CO., 95 Liberty. (See adv. index, end of book)
 White, Van Glahn & Co., Chatham sq
WHITMAN & BARNES MFG. CO., 21 State. (See adv. index, end of book)
SYRACUSE—Syracuse Supply Co.
 Wood, C. H. Co., 401 S Clinton
UTICA—Dent, M. F., 81 Wash
 Holdredge, Burton, 48 Catherine
 Utica Drop Forge & Tool Co., Half Way Bridge

NORTH CAROLINA.

CHARLOTTE—Charlotte Supply Co.
 Textile Mill Supply Co.

OHIO.

AKRON—**WHITMAN & BARNES MFG. CO.** (See adv. index, end of book)
CINCINNATI—Bell, Thos. J., 53 Main
 Boebinger Hardware Co., 315 E Pearl
 Economy Machinery Co. (J. H. Flynn, Prop.) (New & Second Hand Lathes, Planers, Drills, etc.), 428 E Pearl
 Kinsey, E. A. Co. (Drills, Lathes, Shapers, Grinders, Boring & Milling Machines), 331 W 4th. (See adv. index, end of book)
 Motch & Merryweather Machinery Co. (Machinery & Tools)
 Pickering Hardware Co., 5th & Main
 Queen City Supply Co., 201 W Pearl
WHITMAN & BARNES MFG. CO. (See adv. index, end of book)
CLEVELAND—Bingham, W. Co., 97 Superior
 Cleveland Tool & Supply Co.
 McIntosh Hardware Corp., 116 Superior
MANNING, MAXWELL & MOORE. Williamson bldg. (See adv. index, end of book)
 McIntosh Hardware Corporation, 725 Superior
 Motch & Merryweather Machinery Co. (Machinery & Tools)
PATTISON, W. M. SUPPLY CO., 197-211 St. Clair av. (See adv. index, end of book)
STRONG, CARLISLE & HAMMOND Co., 333-334 Frankfort av, N. W. (See adv. index, end of book)
 White, Frank C. Tool & Supply Co., 1313 W 6th, N W
COLUMBUS—Columbus Tool & Supply Co., DAYTON—Dayton Supply Co., 168 N 3d
 Larkin, M. D. Supply Co.
 Miami Valley Machine Tool Co.
 Patterson Tool & Supply Co.
HAMILTON—Hamilton Supply Co. (Fine Tools, etc.)
SPRINGFIELD—Springfield Hardware Co.
TOLEDO—Laskey, Elmer W.

OREGON.

PORTLAND—Avery & Co., 83 2nd

PENNSYLVANIA.

PHILADELPHIA—Bickerton, Thos. B., 12 N Billany & Cochrane, 527 Commerce 5th
 Billington, Jas. H. Co., 113 Chestnut
 Bond, Chas., 520 Arch
 Bullock, Chas. K., 136 Ridge av
 Donlevy, Frank L. & Co. (Tools, etc.), 833 Arch
 Field's, Chas. J. Sons (Tools, etc.), 633 Market
 Fraser, E. L., 622 Arch
 Girard Machine & Tool Co., 491 N 3d
 Haddock, Chas., 343 N 3d
 Hankey, A. & Co., 2233 Vine
 Hill-Clark Co., Phila. Bourse
 Insley, John E., 13 N 6th
 Jones & Rogers, 327 New
 Lovegrove & Co. (Machines & Tools), 143
 McFadden, Jno. W., 40 N 4th
 Machinists' Supply Co., 109 Water
MANNING, MAXWELL & MOORE. 721 Arch. (See adv. index, end of book)
 Pennsylvania Machinery & Supply Co.
 Powell, Clouds & Co., 602 Arch
 Rainear, C. J. & Co., 518 Arch
 Sees & Faber, 2008 N Front
 Seyfert's, L. F. Sons, 437 N 3d
 Shipley, W. E., Phila. Bourse
 Steel, Percy R., 609 Commerce
 Toomey, Frank, 127 N 3d
 Vance, Jas. M. & Co., 211 Market
 Williamson & Cassidy, 526 Market
 Woodfield, Jos., 307 S 2nd
PITTSBURG—Baird Machinery Co. (All Kinds of Machine Tools, Hoists, Drills, etc.), 123 Water
 Frick & Lindsay Co., 109 Wood
 Logan-Gregg Hdw. Co., 125 7th

MANNING, MAXWELL & MOORE. Park bldg. (See adv. index, end of book)
 Pittsburg Supply Co., 226 1st av
PRENTISS TOOL & SUPPLY CO., 120 1st av. (See adv. index, end of book)
 Smith, Chas. G. Co., 347 5th av
 Somers, Fitler & Todd, 327 Water
 Turner, Chas. A. (Fine Tools, etc.), 14 Market

READING—Bright & Co. (Tools, etc.)
SCRANTON—Scranton Supply & Machinery Co
WILKES-BARRE—Penna. Supply Co., 60 S Canal
WILLIAMSPORT—Darling Pump & Mfg. Co.

RHODE ISLAND.

PROVIDENCE—American Supply Co.
 Brown & Sharpe Mfg. Co.
 Thomas & Lowe Machinery Co.

SOUTH CAROLINA

GREENVILLE—Carolina Supply Co.

TENNESSEE

CHATTANOOGA—James & Co.

TEXAS

DALLAS—Waskorn, W. M. & Co.

VIRGINIA

RICHMOND—Bargamin, G. & A. Co., 14 S 9th
 McGraw, Jas., 1440 E Main
 Southern Railway Supply Co., 9th c Cary

WASHINGTON

SEATTLE—Holley, Mason, Marks & Co.

WEST VIRGINIA

CHARLESTON—Capitol City Supply Co.

WISCONSIN

MILWAUKEE—Packard, O. L. Machinery Co., 133 W Water

*Magnesite (Calcined)

Federal Refractories Co., Cleveland, O.
 Harbison-Walker Refractories Co., Farmers' Bank bldg, Pittsburg, Pa., & 1133 B'way, New York City
 Whittaker, W. H. (Lump & Powdered), 245 Front, New York

Magnesite (Crude)

Hammill & Gillespie, 240 Front, New York
 Harbison-Walker Refractories Co., Farmers' Bank bldg, Pittsburg, Pa., & 1133 B'way, New York City
 Harshaw, Fuller & Goodwin Co., 100 William, New York
 Vlasto, Solon J., 2 Stone, New York

Magnetic Accelerators

(See Accelerators, Magnetic)

Magnetos (Sparking)

(See Igniters, Gas & Gasoline Engine)

Magnetos (Telephone)

Sumter Telephone Mfg. Co., Sumter, S. C.

Magnetos (Testing)

Holtzer-Cabot Elec. Co., Brookline, Mass.

*Magnets

ELECTRIC CONTROLLER & SUPPLY Co., Cleveland, O. (See adv. index & branch offices, end of book)

Magnets (Electro)

Acme Wire Co. (Varley Duplex), New Haven, Conn.
 American Electrical Works, Phillipsdale, R. I.
 Ansonia Electrical Co., Ansonia, Conn.
ELECTRIC CONTROLLER & SUPPLY Co. (Lifting), Central & Giddings avs, Cleveland, O. (See adv. index, end of book)

Electrical Appliance Co., 528 Walnut, Cincinnati, O.
 Glaenger & Co. (Imported), 26 Washington pl, New York
 Hall, Arthur W. Scientific Co., 141 Franklin, Boston, Mass.
 Manhattan Electrical Supply Co., 17 Park pl, New York
 Knoblock-Heideman Mfg. Co., South Bend, Ind.
 Splittorf, Chas. F., 17 Vandewater, New York
 Western Electric Co., Chicago, Ill.

Magnets (Lifting)

CUTLER-HAMMER MFG. CO., Milwaukee, Wis. (See adv. index, end of book)
ELECTRIC CONTROLLER & SUPPLY Co., Cleveland, O. (See adv. index & branch offices, end of book)

Magnets (Solenoid)

Ideal Electric & Mfg. Co. (Ironclad), Mansfield, O.

*Mail Boxes

(See also Boxes, Mail.)

FAIRFAX U. S. MAIL CHUTE SYSTEM, 150 5th av, New York. (See adv. index, end of book)

Mail Catchers (Railway)

Taylor & Boggis Foundry Co., 521 Seneca, Cleveland, O.

*Mail Chutes for Buildings

AUTOMATIC MAIL DELIVERY CO., Times bldg (42d & B'way), New York. (See adv. index, end of book)
CUTLER MFG. CO., Rochester, N. Y. (See adv. index, end of book)
FAIRFAX U. S. MAIL CHUTE SYSTEM ("Fairfax"), 150 5th av, New York. (See adv. index, end of book)

Mail Delivery Apparatus

AUTOMATIC MAIL DELIVERY CO., (Automatic), Times bldg (42d & B'way New York. (See adv. index, end of book)
FAIRFAX U. S. MAIL CHUTE SYSTEM ("Fairfax"), 150 5th av, New York. (See adv. index, end of book)

Mailing Boxes (Metal)

Modern Mfg. Co., P. O. Box 2854, Phila., Pa.

Mailing Boxes & Cases (Sample)

Melville, F. H. ("Climax"), 24 E 44th, Bayonne, N. J.

UNION EQUIPMENT AND BRONZE CO.
 520 W 36th, N. Y. (See adv. outside stencil)

Mailing Cases for Liquids

Redlich Mfg. Co., 2 Oak, Chicago, Ill.
 Western Box Co., 42 River, Chicago, Ill.

*Malleable Foundry Plants

WHITING FOUNDRY EQUIPMENT Co., Harvey, Ill. (See adv. index & branch offices, end of book)

Mallets (Calking)

Doscher Plane & Tool Co., Saugatuck, Conn.
 Mack & Co., Rochester, N. Y.
 Union Hardware Co., Torrington, Conn.
 White, L. & I. J. Co., 143 Perry, Buffalo, N. Y.
 Wilcox, Crittenden & Co., Middletown, Conn.

Mallets (Lignumvitae)

Selb Bros., Jersey City, N. J.

Mallets (Rawhide)

Chicago Rawhide Mfg. Co., 75 E Ohio, Chicago, Ill.
 Holbrook, A. & C. W., 748 Main, Providence, R. I.
 United Awl & Needle Co., West Medway, Mass.

Automatic Mail Delivery Company

MAKERS OF

MAIL DELIVERY APPARATUS AND THE PERFECT MAIL CHUTE

Under Authorization of U. S. Post Office Department.

TIMES BUILDING

NEW YORK CITY

Among the many important buildings for which contracts have been made for the installation of THE PERFECT MAIL CHUTE are the following:

| | | |
|---|---|--|
| Richmond Borough Hall, New York City CARRERE & HASTINGS, Architects LOUIS WECHSLER, Builder | House of Representatives Office Building, Wash- ington ELLIOTT WOODS and CARRERE & HASTINGS, Architects | United States Custom House, San Francisco, Cal. EAMES & YOUNG, Architects THOMAS BUTLER, Builder |
| Times Building, Washington, D. C. MCKIM, MEAD & WHITE, Architects GEORGE A. FULLER CO., Builders | New Union Station, Washington, D. C. D. H. BURNHAM & CO., Architects THOMPSON-STARRETT CO., Builders | Sinton Hotel, Cincinnati, Ohio FRANK M. ANDREW, Architect H. HARRIS & CO., Builders |
| Fulton Building (Henry Phipps), Pittsburg, Pa. GROSVENOR ATTERBURY, Architect PITTSBURG BUILDING CO., Builders | National Metropolitan Bank, Washington, D. C. B. STANLEY SIMMONS and GORDON, TRACY & SWARTWOUT, Architects THOMPSON-STARRETT CO., Builders | Municipal Building, District of Columbia COPE & STEWARDSON, Architects JAMES L. PARSONS, Builder |
| Pennsylvania State Capitol JOSEPH M. HUSTON, Architect GEORGE F. PAYNE & COMPANY, Builders | United States Express Building, New York City CLINTON & RUSSELL, Architects THOMPSON-STARRETT CO., Builders | New Wanamaker Store, Philadelphia, Pa. D. H. BURNHAM & CO., Architects |
| Metropolitan Life Ins. Annex, New York City, N. Y. N. LEBRUN & SONS, Architects V. J. HEDDEN & SONS CO., Builders | Marlborough-Blenheim, Atlantic City, N. J. PRICE & McLENNAHAN, Architects EDWIN GILBERT & COMPANY, Builders | Mentor Building, Chicago, Ill. HOWARD SHAW, Architect JOHN M. EWEN COMPANY, Builders |
| Brunswick Building, New York City, N. Y. F. H. KIMBALL, Architect CHARLES T. WILLS, Builder | United States Custom House, New York City CASS GILBERT, Architect J. C. ROBINSON & SON, Builders | Bank of Hamilton, Hamilton, Ont. CHARLES MILLS, Architect WILLIAM GRACE COMPANY, Builders |
| | | Metropolis Trust Co. Building, San Francisco L. B. DUTTON, Architect THOMPSON-STARRETT CO., Builders |

Mail Delivery apparatus is being installed in the new high-class apartment houses, which gives a private post-office box in every apartment, the automatic distributor being operated by a regular United States post official.

FAIRFAX

U. S. MAIL CHUTE

SYSTEM

THE LOCKED MAIL CHUTE

WITH LOCKABLE MAILING SLOTS

Highly artistic in construction. Built like a watch. Simple in operation. Can be opened only by key. Never gets out of order. Made only in genuine bronze. Complies with new Post Office regulations. Absolutely and specifically authorized and approved by the Postmaster-General. Circulars, details, drawings and estimates on request.

150 FIFTH AVENUE, NEW YORK

The Strong, Carlisle & Hammond Co.

MACHINE TOOLS AND SUPPLIES CLEVELAND, O., U. S. A.

Hendricks' Commercial Register



Leads the procession of publica-
tions in the march of trade among
Architects, Builders, Contractors,
Engineers, Purchasing Agents of
Railroads, Mills, Mines, Factories and Supply Houses.



SAVE

LABOR, TIME
AND STORAGE SPACE

BY THE USE OF

LIFTING MAGNETS

WHEN HANDLING

IRON
AND
STEEL

*Send
for
Bulletin*



THE
ELECTRIC
CONTROLLER
& SUPPLY CO.

CLEVELAND,
OHIO



LABOR SAVING APPLIANCES, TOOLS and SUPPLIES

We have the best facilities in this country for furnishing to our subscribers, free of charge, the names and addresses of the leading manufacturers of the latest improved machinery, tools and appliances etc., for working and handling all kinds of metal, wood, stone, slate, earth, minerals, etc., such as :

Air, Gas and Gasoline Compressors
Cranes for all purposes
Pneumatic Tools and Appliances
Derricks, Hand or Power
Hoists, Hand or Power
Elevators, Electric, Hydraulic, etc.
Excavators and Dredges
Conveyors for all kinds of materials
Castings of all kinds
Steam Shovels
Machine or Hand Tools
Machinery for all Purposes
Engines for all Purposes
Electric Generators and Motors
Drills for all Purposes
Power Transmission
Agricultural Implements
Locomotives, Cars, etc.
Tools of Every Description.

Complete equipment for Railroad, Machine Shop, Foundry, Mine, Quarry Mill, Factory, Electric and Gas Lighting, etc., in fact everything wanted for manufacturing plants or to carry out economically large contracts.

S. E. HENDRICKS CO.,
74 Lafayette St., New York

Mallets (Rubber)

BOSTON BELTING CO., 260 Devon-
shire, Boston, Mass., & 100 Reade, New
York. (See adv. index & branch offices, end
of book)

Coutinental Rubber Works, Erie, Pa.
Diamond Rubber Co., Akron, O.
Goodrich, B. F. Co., Akron, O.
Gutta Percha & Rubber Mfg. Co., 126 Duane,
New York

Morgan & Wright (Inc.), 226 Jefferson av., De-
troit, Mich.

National India Rubber Co., Bristol, R. I.
Peerless Rubber Co., 16 Warren, New York
Republic Rubber Co., Youngstown, O.
Revere Rubber Co., 77 Bedford, Boston, Mass.
Spiuney-Wise Co., Lynn, Mass.

Mallets (Wooden)

BERNZ, OTTO, S 13th & S Orange
av., Newark, N. J. (See adv. index, end of
book)

Boston & Lockport Block Co., 160 Commercial,
Boston, Mass.

Brighton Specialty Co. (Heel), Manchester, N. H.
Delphos Mfg. Co. (Tiners, etc.), Delphos, O.
Doscher Plane & Tool Co. (Carpenters', Tin-
ners', Carvers', Stone Cutters', etc.), Sauga-
tuck, Conn.

Hellenberg & Son (for Stone Cutters, Carpen-
ters, Tiners, etc.), Coldwater, Mich.

National Novelty Corporation, 826 B'way, New
York

Piqua Handle & Mfg. Co., Piqua, O.

Redlich Mfg. Co., 2 Oak, Chicago, Ill.

Sandusky Tool Co., Sandusky, O.

Sommer's, John Sou, 355 Central av., Newark,
N. J.

Stanley Rule & Level Co., New Britain, Conn.,
& 107 Chambers, N. Y.

Union Hardware Co., Torrington, Conn.

Williams & Marvin Mfg. Co., Deep River,
Conn.

Malt Kiln Floors

BUFFALO WIRE WORKS CO., 316
Terrace, Buffalo, N. Y. (See adv. index,
end of book)

Howard & Morse, 45 Fulton, New York

SCHILLINGER BROS. CO., 215 City
Park av., Toledo, O. (See adv. index, end
of book)

Sicilliau Asphalt Paving Co., 41 Park row, New
York

Toepfer, W., & Sons, 88 Menomonee, Milwaukee,
Wis.

Malt & Ice House Builders

American Bridge Co., 42 B'way, New York

Phoenix Iron Co., 410 Walnut, Phila., Pa.

Saladin Pneumatic Malting Construction Co., 59
S. Clinton, Chicago, Ill.

Schreiber, L. & Sons Co., 8th & Eggleston av.,
Cincinnati, O.

Mandrels

Adams Co., Dubuque, Ia.

Block-Pollak Iron Co., 1st Nat'l Bank bldg.,
Chicago, Ill., & Carthage, Cincinnati, O.

Cleveland Twist Drill Co., Cleveland, O.

Illinois Iron & Bolt Co. (Blacksmiths'), Car-
pentersville, Ill.

Kinsley Iron & Machine Co., Canton, Mass.

Le Count, Wm. G., South Norwalk, Conn.

NIAGARA MACHINE & TOOL WKS.,
Buffalo, N. Y. (See adv. index, end of
book)

Peck, Stow & Wilcox Co., Southington, Conn.,
& 27 Murray, New York

Pleuger & Henger Mfg. Co., 11th & Hebert, St.
Louis, Mo.

Pratt & Whitney Co., Hartford, Conn.

Putnam Machine Co., Fitchburg, Mass.

Rogers, John M., Boat, Gauge & Drill Works,
Gloucester City, N. J.

Smith, H. B. Machine Co., Smithville, N. J., &
121 Liberty, New York

Standard Tool Co., Central av & P. Ry., Cleve-
land, O.

Standish, Albert, 120 W Spring, Columbus, O.

Stauffer, Geo. E., E Stroudsburg, Pa.

WHITMAN & BARNES MFG. CO.,
Chicago, Ill. (See adv. index & branch of-
fices, end of book)

Wiley & Russell Mfg. Co., Greenfield, Mass.

Mandrels (Expanding)

Le Count, Wm. G., S. Norwalk, Conn.

Nicholson, W. H. & Co. (Lathe), Wilkes-Barre,
Pa.

Western Tool & Mfg. Co. ("Champion"), Spring-
field, O.

*Mandrels (Hardened & Ground)

MORSE TWIST DRILL & MACHINE
Co., New Bedford, Mass. (See adv. index,
end of book)

Mandrels (Saw)

American Woodworking Machinery Co., Roches-
ter, N. Y., & West st. bldg. New York

Atkins, E. C. & Co. (Inc.), Indianapolis, Ind.

Champion Saw Co., Beaver Falls, Pa.

Cordesman Machine Co., 25 Butler, Cincinnati,
O.

Disston, Henry & Sons (Inc.), Tacony, Phila.,
Pa., & 75 W Wash'n, Chicago, Ill.

Emerson, Smith & Co., Beaver Falls, Pa.

Farquhar, A. B. Co. (Ltd.), York, Pa.

Fay, J. A. & Egan Co., Front & John, Cincin-
nati, O.

Hobbs Mfg. Co., Worcester, Mass.

Hoe, R. & Co., 506 Grand, New York

Lippert Saw Mfg. Co., Millvale Station, Alle-
gheny, Pa.

National Saw Co., Middletown, N. Y., & New-
ark, N. J.

Ober Mfg. Co., Chagrin Falls, O.

Reed, Jos. B., Cairo, Ill.

Smith, H. B. Machine Co., Smithville, N. J., &
121 Liberty, New York

Southern Engine & Boiler Works (Inc.), Jacksou,
Tenn.

Southern Saw Works (Circular Saw), Atlanta,
Ga.

Standish, A., 120 W Spring, Columbus, O.

Union Iron Works, Bangor, Me.

Wheland Machine Works, Chattanooga, Tenn.

Mandrels (Taper)

Brown & Sharpe Mfg. Co., Providence, R. I.

Comstock, Geo. S., Mechanicsburg, Pa.

MORSE TWIST DRILL & MACHINE
Co. (with Expanding Sleeve), New Bedford,
Mass. (See adv. index, end of book)

Pratt & Whitney Co., Hartford, Conn.

Wiley & Russell Mfg. Co. ("Green River"),
Greenfield, Mass.

Mandrels or Cones (Black- smiths')

Illinois Iron & Bolt Co., Carpenterville, Ill.

Swett, A. L. Iron Works, Medina, N. Y.

Manganese

Cooper, Chas. & Co., 194 Worth, N. Y.

Doggett, Stanley, 101 Beekman, New York

Goldschmidt Themit Co., 90 West, New York

Kendall & Flick, Washington, D. C.

National Paint & Manganese Co. (Miners &
Grinders), Lynchburg, Va.

Roessler & Hasslacher Chemical Co. (Chloride,
Oxide, Sulphate, etc.), 100 William, N. Y.

Samuel, Frank (Firm of), 1502 Market, Phila.,
Pa.

Manganese Bronze (Parsons')

Cramp, Wm. & Sons Ship & Engine Building
Co., Phila., Pa.

Taunton-New Bedford Copper Co., Taunton,
Mass., & New Bedford, Mass.

Manganese Copper

Kendall & Flick, Washington, D. C.

*Manganese Metal

LEAVITT, C. W. & CO., 222 B'way,
New York. (See adv. index, end of book)

Manganese Ore

(See Ores, Manganese)

Mangles (Ironing)

(See Laundry Machinery)

Manheads, Yokes, Etc. (Pressed Steel)

Central Iron & Steel Co., Harrisburg, Pa.

Glasgow Iron Co., Pottstown, Pa.

Lukens Iron & Steel Co., Coatesville, Pa.

Worth Bros. Co., Coatesville, Pa.

Manhole Covers

AMERICAN BRAKE & SHOE FOUN-
dry Co. 170 B'way, New York. Works &
Sales Office, Chicago Heights, Ill. (See
index, end of book)

ANDERSON, W. H., TOOL & SUPPLY
Co., 14 Wacomb, Detroit, Mich. (See adv.
index, end of book)

Barber Mfg. Co., Ashtabula, O.

Belmont Iron Works, 22d & Washington av.,
Phila., Pa.

BETHLEHEM FOUNDRY & MACHINE
Co., Front st., S. Bethlehem, Pa., & 149
B'way, New York. (See adv. index, end
of book)

Bryam Foundry Co., Indianapolis, Ind.

Buckeye Foundry Co., 2257 Buck, Cincinnati, O.

Builders' Iron Foundry, Providence, R. I.

Caldwell, B. R. & Co., Bradford, Pa.

CANTON FOUNDRY & MACHINE CO.,
Canton, O. (See adv. index, end of book)

Carmody, J. T., Cedar Rapids, Ia.

Carlin's, Thos. Sons Co., 1300 River av., Alle-
gheny, Pa.

Chattanooga Car & Foundry Co., Chattanooga,
Tenn.

Clow, Jas. B. & Sons, 344 Franklin, Chicago,
Ill.

Coffin Valve Co., Neponset, Boston, Mass.

Coldwell-Wilcox Co. (also Pivot), Newburg, N. Y.

Concord Foundry Co. (also Grates & Traps),
Concord, N. H.

Co-Operative Foundry Co. (Stuart's Safety
Manhole), Junction & Henrietta avs., De-
troit, Mich.

Cornell, J. B. & J. M. Co., 26th & 11th av.,
New York

Curry & Co., Meadville, Pa.

Davis & Thomas Co., Catasauqua, Pa.

Davison Foundry Co., 235 Johnson, Chicago, Ill.

Dee, Wm. E. Co., Royal Ins. Bldg., Chicago, Ill.

Dimmick Pipe Co., Birmingham, Ala.

DOBBIE FOUNDRY & MACHINE CO.,
Niagara Falls, & 82 Warren, New York. (See
adv. index & branch offices, end of book)

Drummond, M. J. & Co., 182 B'way, New York

Enterprise Foundry Co., 48 Olean, Rochester,
N. Y.

Greger Mfg. Co. (Asphalt Filled), 22d & Wash'n
av., Phila., Pa.

Haney & Splcker, 125 W 2d, Cincinnati, O.

Hay Foundry & Iron Works, Newark, N. J., &
141 B'way, N. Y.

Hayes Foundry Co., Lynn, Mass.

Holbrook-Armstrong Iron Co., Racine, Wis.

Jonson's, Julius Sons, 63 Hudson, Jersey City,
N. J.

Kramer Bros. Foundry Co., Dayton, O.

Kuhns Bros., Dayton, O.

Lebanon Foundry Co., Lebanon, Pa.

McDonald Bros., Columbus, O.

McDonald, H. W. & Son, Gallon, O.

Madison Ave. Foundry Co., Cleveland, O.

Maber & Flockhart, 60 Polk, Newark, N. J.

Metcalf & Morrison, 126 Polk, Newark, N. J.

Millar, Chas. & Son Co., Utica, N. Y.

Metcalf, Jas. & Co., 126 Polk, Newark, N. J.

MINNEAPOLIS STEEL & MACHIN-
ery Co., Minneapolis, Minn. (See adv.
index & branch offices, end of book)

Modern Iron Works, Quincy, Ill.

Muncie Foundry & Machine Co., Muncie, Ind.

Northwestern Foundry, 312 10th av., S. Min-
neapolis, Minn.

Palmer, C. F., Utica, N. Y.

Paxton & Vierling Iron Works, 17th & U. P.
Ry., Omaha, Neb.

Rempes & Gallmeyer Fdy. Co., Grand Rapids,
Mich.

Russell, Albert & Sons Co., Newburyport, Mass.

RUSSEL WHEEL & FOUNDRY CO.,
Detroit, Mich. (See adv. index, end of
book)

Sessions Foundry Co. (Suhway, etc.), Bristol,
Conn.

South Bend Foundry Co., South Bend, Ind.

South Park Foundry & Machine Co., Gilfillan
blk. St. Paul, Minn.

Springfield Foundry Co., Springfield, Mass.

Swett, A. L. Iron Works, Medina, Wis.

Thompson, J. & Co., c Van Horn & Sophia,
Phila., Pa.

Toledo Foundry & Machine Co., Toledo, O.

U. S. Cast Iron Pipe & Foundry Co., 317 La
Salle, Chicago, Ill.

Vulcan Iron Works, Fulton & Irving av., Chi-
cago, Ill.

Wade Iron Sanitary Mfg. Co., 52 Dearborn,
Chicago, Ill.

Manhole Plates

(See Manheads, Yokes, Etc., Pressed Steel.)

Manifolds (Cast, Wrought, Etc.)

Belfield, H. & Co., 435 N Broad, Phila., Pa.

Manilla & Sisal Rope Mfrs.

(See Rope, Manilla & Sisal.)

**Mantel, Grate & Tile Dealers
ALABAMA.**

BIRMINGHAM—Moore & Handley Hardware Co.
Prowell Hardware Co.
DECATUR—Wyker, J. D.
MOBILE—Builders' Supply Co.
Price, H. M. & Co.
MONTGOMERY—Bogacki, C. Y.
Kennedy Co.
SELMA—Robbins, J. H. & Sons Hardware Co.
TUSCALOOSA—Allen & Jemison Co.
Leland Hardware Co.

ARIZONA.

PHOENIX—Davidson, C. H. & Co.

ARKANSAS.

HELENA—Tappan, J. A. Hardware Co.
LITTLE ROCK—Arkansas Pump & Pipe Co.
MAGNOLIA—Davis & Warnock
TEXARKANA—Chatfield & Buhrman Hardware Co.
Texarkana Hardware Co.

CALIFORNIA.

FRESNO—Barrett-Ilicks Co.
LOS ANGELES—Burross, T. M., 2326 E. 3d
Collins, E. V., 928 S. Main
Frey, J. W., 529 S. B'way
Harper & Reynolds Co., 152 N. Main
Los Angeles Mantel & Tile Co., 623 S. Spring
Montague, W. W. & Co., 124 N. Los Angeles
Nash, Carl Enos Co., 716 S. Spring
Peterson, B. E., 1318 S. Main
OAKLAND—Howden, R., 1158 Webster
Kelly, J. F., 725 7th
Wills, J. C., 617 San Pablo av.
PASADENA—Pasadena Mfg. Co.
SAN FRANCISCO—Bateman, Wm., 1913 Bryant
Bennett & Schutte, 182 Valencia
Bush & Mallett Co., 127 Shotwell
Clawson, L. E. & Co., Golden Gate av. & Leavenworth
Emanuel, L. & E., 144 12th
Holbrook, Merrill & Stetson, 6th & Townsend
Lowry & Daly, 1650 Page
Mangrum & Otter, 538 Mission
Montague, W. W. & Co., 644 Polk
Rehn, Charles, 2034 Mission
Rigney, Thomas F., 2564 Market
West Coast Furniture Co., 701 Shraeder
SAN JOSE—Mangrum & Otter Co., 85 E. Santa
Stock's, John Sons, 75 S. 1st

COLORADO.

DENVER—Backus Heating Co., 415 17th
Cook, T. W. & Co., 1623 Tremont
Denver Mantel & Tile Co., 1652 Tremont
Frazier, Pearce Fixture Co., 1401 Wazee
Gustafson Piano & Mantel Co., 725 18th
Minott-Groff & Co., 1855 Welton
Paulson, John P., 15th & Wynkoop
Sayre-Newton Lumber Co., 23d & Blake
Wicklem & Sederholm Bldg. & Mantel Co., 739 W. 13th av.
PUERLO—Holmes Hardware Co., 302 S. Union
Killin, John M. & Co.

CONNECTICUT.

BRIDGEPORT—Burritt, A. W. Co.
Rand, G. P. & Co., 107 Middle
HARTFORD—White & Whitmore, 424 Asylum
NEW HAVEN—Ahern, Thomas F. & Co., 182 Franklin
Chamberlain Furniture & Mantel Co., 46 Orange
Connecticut Marble & Tile Co., 19 Centre
Corbett, T. W., 29 B'way
NEW LONDON—Pierce, E. B.
NORWICH—Crowell, Fred. C.
Gilbert, N. S. & Sons
Porter, H. B. & Son Co.
TORRINGTON—Hotchkiss Bros. Co.
WATERBURY—Jackson, Chas. A. & Co., 270 Bank
Jackson, Thos. F., 312 Bank

DELAWARE.

WILMINGTON—Simmons & Bro., 102 W. 5th

DISTRICT OF COLUMBIA.

WASHINGTON—American Mosaic Co., 808 K.
Barber & Ross, 614 11th, N. W.
Corning, John Herbert, 520 13th, N. W.
Dodson & Hodgson, 1226 H. N. W.
Donnelly, John, Jr., 215 12th, N. W.
Ellett, Edwin E., 230 4½, S. W.
Hutchinson, Wm. S., 1311 H. N. W.
Hutchinson & Harbin, 211 12th, N. W.
National Mosaic Co., 338 Pennsylvania av., N. W.
Smith, Thos. W., 1st & Indiana av., N. W.

FLORIDA.

JACKSONVILLE—Clark, Geo. W. Co.
Southern Marble & Stone Co.
PENSACOLA—Johnson, Wm. & Son.

GEORGIA.

ATLANTA—Regal Mantel Co.
AUGUSTA—Evans, John J.
Slusky, David, 1009 Broad
Tarver, J. E.
BRUNSWICK—Anderson, Wm. C.
MACON—Burke, T. C.
Merritt Hardware Co.
Wilder's, R. C. Sons Co., 614 3d
Willingham Sash & Door Co., 457 3d
SAVANNAH—Peoples, H. H. & Sons
Semmes Hardware Co.
Weed, J. D. & Co.

ILLINOIS.

BEARDSTOWN—Van Fossen, S. L.
BLOOMINGTON—Holder-Athey Hardware Co.
Keiser-Van Leer Co.
Poppo, M. L., 417 W. Main.
Read, G. H. & Bro.
CAIRO—Woodward Hardware Co.
CARLINVILLE—Woodward, S. S. Hdw. Co.
CHICAGO—Chicago Mosaic & Tiling Co., 315 Wabash av
Davis Mosaic Co. (also Encaustic Tiling for Walls and Floors), 302 Michigan av
Dawson Bros., 199 N Halsted
Englewood Mantel & Tile Co., 6203 Wentworth av
Hawes & Dodd, 24 Adams
Hoops, Wm. H. & Co., 10 Monroe
Interior Mantel & Tile Co., 206 Wabash av
Illinois Mosaic Tile Co., 569 Loomis
Jackson, Wm. H. Co., 163 Michigan av
Keating, M. & Sons Co., 224 Wash'n
Liberty Mantel Mfg. Co., 82 Lake
Lorenzen, Chas. F. & Co., 282 N Ashland av
Louden, Eugene, 4714 State
Mott, J. L. Iron Works, Merchant Loan & Rees, Geo. H., 88 Lake
Servoss Furnace Co., 135 Lake
Weary & Beck, First National Bank bldg
West Side Mantel Co., 398 W Chicago av
DECATUR—Morehouse & Wells Co.
EVANSTON—Conner, J. C. Co.
GALESBURG—Murphy Bros. & Anderson
LINCOLN—Bonillon, W. E.
OTTAWA—McInhill, Edward
PEORIA—Johnson, Chas. Hardware Co.
Meyer, F. & Bro. Co.
Peoria Stone & Marble Works, 203 S. Jefferson av

QUINCY—Heitland Grate & Mantel Co.
SPRINGFIELD—Power, Chas. A.
Vredenburg, Peter, Lumber Co.
URBANA—Hubbard & Sons

INDIANA.

ANDERSON—Jones, A. J.
Nichol Hardware Co.
CARLISLE—Risinger & Ellis
COLUMBUS—Schwartzkopf, J. G. & Son
EVANSVILLE—Lensing, H. A., 422 Sycamore
Schmitt, August & Sons, 605 Main
Scholz, F. J. & Son, 11 L 3d
Sonntag, Edward F., 512 Main
Thiele, I. A., 108 U 3d
FORT WAYNE—Carter, W. & Sons
Hattersley, A. & Sons, 48 E Main
Lund, H. M., 172 W Creighton av
FRANKLIN—Smith & Tilson
HARTFORD CITY—Lieber & Campbell
HUNTINGTON—Bartlett & Frazier
Peden, H. V. & Co.
INDIANAPOLIS—Balke & Krauss Co., 427 W Market
Builders' Supply Corporation, 342 E Wash
Hopkins, Lynn B., 2127 Broadway
Lion Mantel & Grate House, 214 N Del.
Pursell, P. M. Mfg. Co., 702 Beecher
KOKOMO—Globe Stove & Range Co.
LAFAYETTE—Howe & Shipley
LOGANSPOUT—Crawford, Isaac N.
Henderson, J. W. & Sons
Ullery, S. W. & Son

MARION—Marion Hardware Co.
Swanger & McClain
MUNCIE—Clevenger, Earle L.
Shirk, W. W.
Young & Kessler, 109 W Main
RICHMOND—Johnson, Peter Co.
Wagner, William & Son
SULLIVAN—Long & Warren
TERRE HAUTE—Austin, A. G. & Co., 608 Wabash av
Duenwig Hdw. Co., 657 Wabash av
Manion, John, 905 Wabash av
Smith, C. C. Sons Co., 303 Wabash av
Terre Haute Stove & Furnace Co., 658 Wabash av
Townley Stove Co., 609 Wabash av
Watson's, D. W. Sons Co., 634 Wabash av

IOWA.

BURLINGTON—Bernard Bros. & Mercer
Drake Hardware Co.
Schmidt, Chas. F. Hardware Co.
Wyman & Rand
CEDAR RAPIDS—Kubias, F. & Co.
COUNCIL BLUFFS—De Vol, P. C. Hardware
Peterson-Schoening Co.
DAVENPORT—Hanssen's, Louis Sons.
Peterson, Adolph W.
Schricker-Rodler Co., 320 W 3d
Harbach, Louis, 412 Walnut
Holbrook Mantel & Tile Co.
DES MOINES—Des Moines Marble & Mantel Co.
DUBUQUE—Gill, W. V., 501 Locust
KEOKUK—Weber, A. & Co.
OTTUMWA—Cooper, W. H. & Son
McCarroll, Chas. T.

KANSAS.

ATCHISON—Uhrich, O. W.
EMPORIA—Haynes Bros.
Peters Hardware Co.
IOLA—Shannon, T. B.
TOPEKA—Culver & Bailey
Forbes, D. H.
Fernold, W. H.
WICHITA—Stocker, O. B.

KENTUCKY.

ASHLAND—Henderson, Thos. & Son.
COVINGTON—Cambridge Tile Mfg. Co.
Faulwetter, Fred, 3 Pike
Snyder, W. G. Co., 11 Pike
Tattershall, A. W., 422 Madison av
DANVILLE—Danville Planing Mill Co.
HENDERSON—Blackwell, P. A. & Co.
LANCASTER—Haseiden, J. R.
LEXINGTON—Drake & Marshall
Smith, Watkins & Co.
Thompson, M. G.
Van Deren Hdw. Co.
LOUISVILLE—Fischer-Leaf Co., 1438 High
Hegan Mfg. Co.
Hughes, W. J. & Sons Co., 14th c Maple
Kentucky Stove Co., 1401 Delaware
Voss Mantel Co., 16th c Arbegust
MAYFIELD—Gardner, B.
Lockridge & Ridgway
OWENSBORO—Frederick, John C.
Guenther, W. A. & Sons.
PADUCAH—Hart, Geo. O. & Sons Co.
Scott Hardware Co.

LOUISIANA.

BATON ROUGE—Becker Furniture Co.
Doherty Hardware Co.
Garig Hardware Co.
MONROE—Monroe Hardware Co.
NEW ORLEANS—Leahy, Geo. M., 512 Camp
SHREVEPORT—Hardman, C. C. & Co.

MAINE.

AUGUSTA—Cogan, J. H. & Co.
Ward, A. D.
BANGOR—Dickey, W. P. & Co.
Haynes & Chalmers Co.
Morse & Co. (Inc.)
BRUNSWICK—Eaton Hardware Co.
Ridley, Geo. B.
LEWISTON—Hall & Knight Hdw. Co., 53 Lisbon
PORTLAND—Allen, W. A., 125 Somerset
Edwards & Walker Co.
Emery, Waterhouse Co.
King & Dexter Co.

MARYLAND.

BALTIMORE—Broadbent, F. A. Mantel Co.
(Mfrs.), c Canton av & President
Davidson, F. H. & Co., 509 W Franklin
Dunn, Jos. B., 853 N Howard
Fishbach, David & Co., 1405 N Charles

Gault, Wm. A. & Son, 9 E Lex
National Mantel & Tile Co. (Mfrs.), Record bldg
Slisson, Hugh & Sons, 23d & Mt. Vern. av
CUMBERLAND—Cumberland Sash & Door Co.
Habig & Stegmaler
OAKLAND—Davis, J. M. & Son
SALISBURY—Dorman & Smyth Hardware Co.
Gunby, L. W. Co.

MASSACHUSETTS.

BOSTON—Bailey, J. W. & Sons Co., 14 Wash-
ington N
Boston Tile & Mantel Co., 120 Boylston
Carter, Geo. E. & Son, 43 Beverly
Crawley, Geo. E. & Son, 1 Somerset
Franz, Jno. (Est.), 18 Thayer
Haymarket Square Tile & Fire Place Co.,
26 Washington, N
Hill, J. J. & Co., 30 Thayer
Kelley, L. J., 61 Bristol
Mott, J. L. Iron Works, 41 Pearl
O'Connor, T. W., 125 Haverhill
Paige, D. F. & Co., 47 Wareham
Stearns & Waterman, 1 Washington
Whitney, Edgar H., 175 Devonshire
HOLYOKE—Oakes, Roland T. Co., 366 High
LOWELL—Thompson Hdw. Co., 254 Merrimack
LYNN—Brockway Smith Corp.
NEW BEDFORD—Washburn, Lettice R. & Son,
266 N Water
SPRINGFIELD—Hall, Chas., 395 Main
McGregory & Casman
Old Corner Decorating Co., 64 W Bridge
TAUNTON—Pierce Hardware Co.
Saunders, C. V. & Co.
Washburn, Frank R.
WORCESTER—Kendall, O. S. & Son, 564 Main

MICHIGAN.

ADRIAN—Thiem, Ferdinand S. D.
Wilcox Hdw. Co.
ANN ARBOR—Hutzel & Co.
Muehlig & Schmid
Schuh, Jacob F.
BATTLE CREEK—Bock, Chas. A. & Son
BAY CITY—Burbridge, Benj. & Co.
DETROIT—Barton-Netting Co., 250 Woodward
av
Detroit Mantel & Tile Co., 80 Miami av
Fox Bros. & Co., 1450 Hastings
Mehling, Geo. R., 106 Henry
Paschke, Chas., 140 Grand River av
Venetian Marble Mosaic Co., 98 Brush
FLINT—Algoc, J. Frank
Hubbard, Geo. W. & Sons
Stern, Edwin Co.
GRAND RAPIDS—Grand Rapids Clock & Man-
tel Co.
Rathbone & Panigot Co.
Weatherly, C. S.
JACKSON—Dolg, Daniel J.
Smith-Winchester Co.
KALAMAZOO—Edwards & Chamberlin Hard-
ware Co.
LANSING—Larned, H. H.
MARSHALL—Marshall Furnace Co.
PORT HURON—Truesdell Marble & Granite Co.
SAGINAW—Morley Bros., 129 N Washington av
Saginaw Hardware Co., 204 S Hamilton

MINNESOTA.

DULUTH—Dixon & Lowry, 20 E Superior
Thompson & Dunlop, 226 W Michigan
MINNEAPOLIS—Drake Marble & Tile Co., 607
2d av, S
Landers-Morrison-Christenson Co.
Northwestern Mantel Co., 419 S 6th
ST. PAUL—Drake Marble & Tile Co., 66 E 3d
French, William A., 42 E 6th
WINONA—Cone, R. D & Co.

MISSISSIPPI.

ABERDEEN—Henderson Hdw. Co.
AMORY—Amory Hdw. Co.
COLUMBUS—Banks Hdw. Co.
Newby Bros.
DURANT—Durant Commercial Co.
GREENVILLE—Greenville Hardware Co.
Wetherbee Hardware Co.
GREENWOOD—Henderson & Baird
Mann Hardware Co.
JACKSON—Jackson Hardware Co.
LAUREL—Gardner, Frank Hdw. & Supply Co.
Laurel Hardware Co.
MERIDIAN—Casteel, W. G.
Meyer-Neville Hardware Co.
NATCHEZ—Baker & McDowell Hdw. Co.
Feltus Bros.
Schwartz & Stewart
VICKSBURG—Wright Bros.
YAZOO City—Crane-Hinman Hdw. Co.

MISSOURI.

CARTHAGE—Drake Hardware Co.
CHILLICOTHE—Minter, J. C.
CLINTON—Blakemore, James N.
Sherry & Stone
COLUMBIA—Newman, C. C. & Co.
DEXTER—Miller, Ulen & Carter
FAYETTE—Bell Bros.
KANSAS CITY—American Mantel & Tiling Co.,
1221 Grand av
Calhoun Mantel & Tile Co., 815 Walnut
Kansas City Mantel Co., 1022 Walnut
Wakefield Mantel & Tile Co., 1105 McGee
MARSHALL—Naylor, B. F. Furniture & Plumb-
ing Co.
MEXICO—Ferris, Cauthom
Robertson, George W.
NEVADA—Moore, Q. T.
Robinson, J. B. & Son
ST. JOSEPH—American Sash & Door Co.
Burgess-Frazer Iron & Hdw. Co.
Curtin & Clark Hdw. Co.
ST. LOUIS—Beattie Mfg. Co., 2202 Pine
Central Mantel Co., 1228 Olive
Fichtel, Bernard, 1925 Washington
Hornet Mantel Co., 1114 Market
Irwin Mantel Co., 1228 Pine
May, Wm., 1927 Washington
Nelson, N. O. Mfg. Co., 8th & St Charles
Seidel, Emil F., 1915 Pine
SEDALIA—Ilgenfritz Hdw. Co.
Sedalia Hdw. Co.
Smith, D. H. Hardware Co.
SPRINGFIELD—Fahrenhorst, F. W. G.
Raymond Heating Co.

MONTANA.

ANACONDA—Stagg, J. P.
BUTTE—Montana Hardware Co.
HELENA—Hermann & Co., 201 B'way
Holter, A. M. Hardware Co.

NEBRASKA.

LINCOLN—Clyce, F. P., 324 N 28th
Lahr, Frank E.
NEBRASKA CITY—Bischof, William
Overton, E. L.
OMAHA—Cady, H. F. Lumber Co., 6th & Doug-
las
Carson, Cleeve & Sons, 2011 Cuming str
Disbrow, M. A. & Co., 1201 Nicholas
Hamling, F. M., 309 S 17th
Rogers, Milton & Sons, 1323 Farnam

NEW HAMPSHIRE.

BERLIN—Burbank, Edw. A. Co.
Parent, A. E.
CONCORD—Thompson & Hogue

NEW JERSEY.

ATLANTIC CITY—Cnrrie Co.
BRIDGETON—Bacon, Daniel & Son
HOBOKEN—Siech & Moss, 243 Garden
JERSEY CITY—Dickson, J. & Bro., 385 Grand
Gahagan, William A., 1219 Garden
Nicoll & Cotter, 58 Oakland av
NEWARK—Beckingham, Chas. H., 23 Belleville
Davenport, Jas. T., 527 Market
Feller, Richard Mantel & Tile Co., 57 Mer-
chant
Harrison, E. H. & Bro., 478 Broad
Hedden, V. J. & Sons Co., 431 Ogden
Newark Mantel & Furniture Co., 59 Poinler
Russel, W. P. Co., 40 Lawrence
Siech & Moss, 773 Broad
Standard Mantel Co., 221 Sussex av
PASSAIC—Abbott's, A. Sons
Doremus, Jno. H.
PATERSON—Balrd, John Co., 77 Mill
Mills, H. W. & Co.
RED BANK—Allen, J. Trafford
TRENTON—American Mantel & Tile Co., Broad
Street Bank bldg
Katzenbach, T. H. Co., 36 E State

NEW YORK.

ALBANY—Butler, C. R., 63 Hudson av
Schilling Co., 43 Eagle
Weiler, A., 566 B'way
AMSTERDAM—Hennessy, W. E., 15 Railroad
BINGHAMTON—Babcock, Hinds & Underwood
Bartlett & Co., 37 Collier
Lynch's, John R. Sons
BROOKLYN—(See New York City, Borough of
Brooklyn)
BUFFALO—Buffalo Mantel Mfg. Co., 3 Build-
ers' Exchange
Crawford, John & Son, 1420 Delaware av
Day, Alvin W., 877 Main
Elsesser, John, 1183 Niagara

Steul & Thuman, 276 Johnson
Stuhlmiller Mantel Works, 413 E Delevan av
Walbridge & Co., 392 Main
Wolsley, John A., 895 Main
DUNKIRK—Bloss, Clark Co.
ELMIRA—Barker, Rose & Clinton Co.
Booth, Irving D.
GENEVA—Dorchester & Rose
GLENS FALLS—DeLong's Sons
Whipple & Robinson
ITHACA—Rumsey, C. J. & Co.
Treman, King & Co.
JAMESTOWN—Clark Hardware Co.
Munson & Johnson
Sprague, W. H.
KINGSTON—Stock & Cordts
LITTLE FALLS—Shepherd, Skinner & Co.
LOCKPORT—Lockport Marble Co.
MIDDLETOWN—Brink & Clark
NEWBURGH—Lawson Hardware Co.
Shannon & Co.
Van Cleft, Jos. & Co.

NEW YORK CITY. Borough of Brooklyn.

BROOKLYN—Burns Mantel & Tile Co., 964
Halsey
Mellor, J. H. & Co., 302 Fulton
Miles, Henry & Sons, 2073 Fulton
South Brooklyn Mantel Co., 46th

Boroughs of Manhattan & Bronx

NEW YORK CITY—Alexander & Reid Co., 127
E 23d
Bronx Mantel & Tile Co., 360 Alexandria av
Chester Mantel & Tile Co., 38 E 21st
Currier, E. Bradley Co., 119 W 23d
Davis, Frank L. (Also Encaustic Tiling for
Walls & Floors), Fuller bldg
Federal Tiling & Mantel Co., 131 W 24th
Ensign, C. E., 1123 B'way
GRAF, FRANK H., 322-324 7th av.
(See adv. below)
Grant, Wm. D., 206 W 42d
Hayden Co., 523 5th av
Howden Tile Co., 41 W 24th
Hyde, F. A. Tiling Co., 113 E 27th
JACKSON, EDWIN A. & BRO. (The
Jackson Ventilating Grate, Mantels, Tiles,
Fireplaces, etc.), 50 Beekman
JACKSON, WM. H. COMPANY, 29
E 17th (Union sq). (See adv. index, end
of book)
Jackson's Mantel & Grate Works, 246 Front
Jamestown Mantel Co., 884 Columbus av
Lage, Bernard, 484 Greenwich. Factory:
Menlo Park, N. J.
McCrea, Harry, 172 E 96th
Morrison, Geo. S., 2280 B'way
Mott, J. L. Iron Works, 118 5th av
Naething-Leslie Tile Co., 24 W 26th
New England Mantel & Tile Co., 748 Lex-
ington av
Nichols, A. S., 1901 Park av
Penrhyn Slate Co., 493 E 138th
Petri, Herman, 101 E 17th
Rossman, Robert, 149 W 24th
Toscani Bros., 163 E 35th
Traitel Bros. & Co., 44 E 19th
Walsh, John, 387 3d av
Wright, Henry, 584 E 148th
(END OF NEW YORK CITY)

NIAGARA FALLS—Elderfield-Hartshorn Hdw.
Co.
Watson, James & Son
OSWEGO—Oswego Hardware Co.
PORT JERVIS—Bennett, John E.
Gordon & Malven Co.
POUGHKEEPSIE—Grobe, F. H.
ROCHESTER—Barry, James C. Co., 83 North
Neil Bros. & Kern, 238 State
Noth, Geo. E. & Co., 46 Clinton av
Weston, John P., Granite bldg
ROME—Wardwell Hardware Co.
SCHENECTADY—Burtis, A. R. & Son
Witbeck, Clark
SYRACUSE—Syracuse Mantel, Tile & Marble
Co., 333 E Genesee
Stearns & Son, 328 S Warren
TROY—Dickson, H. S., 267 River
Emerson Mantel Co., 233 River
Grant, Chas. M., Cemetery & 7th avs
UTICA—Griffiths & Pierce, 72 Charlotte
Hughes, John F., 33 Charlotte
Wicks, Hughes & Co., 224 Genesee
YONKERS—Brockhurst, Wm. A., Dock & Wood-
worth pl
Wiggins, L. H.

NORTH CAROLINA.

ASHEVILLE—Scott, George F. & Co.
GREENSBORO—McClamrock Mantel Co.
Odell Hardware Co.
RALEIGH—Briggs, Thomas H. & Son

OHIO.

AKRON—Crumrine, M. H., 112 N High
Ewing, L. D., 119 Kirkwood
Flower, J. T., 118 S High
ALLIANCE—De Venne Co.
Love, Casselman & Co.
CADIZ—Long, E. M. & Sons
CANTON—Biechelt, E. A., 206 E 5th
Flie Bros. Co., 212 E 8th
Lang, E. D.
Yost, L. P. D., 201 S Cleveland av
CHILLICOTHE—McNellis, Wm. A.
CINCINNATI—Bollinger, O. H. & Co., 306 E 5th
Cassini Mosaic & Tile Co., 10 E 7th
Kramig, R. E. & Co. (Glazed & Encaustic
Tiles), 234 E 6th, Cincinnati, Ohio
Mitchell, Robert Furniture Co., 624 Race
Moormann & Otten, 611 Main
Schroeder, Martin, 523 Main
Thauwald, C. F. & Co., 1222 Harrison av
Wiggers Furniture Co., 1419 Plum
CLEVELAND—Auld & Conger, 942 Prospect av,
S. E.
Cleveland Mantel & Tile Co., 1426 E 30th
Cleveland Marble & Tile Co., Builders' Ex-
change, Chamber of Commerce bldg
Collings, Clarence H., 1527 Prospect av,
S. E.
Miller Grate Co., 942 Prospect av, S. E.
Pfeil, Chas. J. Co., 1905 W 3d
Shaw, L. F. Mantel & Tile Co., 1049 Super-
ior viaduct, N. W.
Teachout, A. & Co., 321 Prospect av, N. W.
Vincent-Barstow Co., 725 Euclid av
Wadsworth, Chester J., 5806 Euclid av
Wattson & Guest, 2018 E 55th
COLUMBUS—Capital City Mantel Co., 70 E
Lewis, J. R., 954 W Broad, Town
Ohio Furniture & Mantel Co., 139 S High
DAYTON—Andrews, H. C., 105 N Main
Davis Mantel & Grate Co., 208 N Main
Klug Bros. & Co., 128 N Main
FINDLAY—Gassman Bros.
Smith, A. M.
FREMONT—Reynolds, A. A.
Swint & Reineck
HAMILTON—Holbrook Hardware Co.
Spoerl, John S.
HILLSBORO—Enterprise Planing Mill Co.
LANCASTER—Martens Hardware Co.
LIMA—Harman, Frank E.
LORAIN—Fey, F. J.
Wickens & Ransom
MANSFIELD—Bare Bros.-Martin Hardware Co.
Preston, Burton
MARIETTA—Wagner, H. A.
NEWARK—Jones, J. C., 12 S 2d
Jones, Daniel L. & Co.
SANDUSKY—Donahue Hardware Co., 739
SPRINGFIELD—Diehl Hardware Co., Water
Elder & Tuttle, 69 E Main
STEUBENVILLE—Anderson, R. C.
Sharp, W. L. & Son
TOLEDO—Lindow, Leibius & Gerchow Co., 220
Superior
Practical Mantel Co., 918 Monroe
WARREN—Warren Hardware Co.
WASHINGTON—Ford Hardware Co.
WELLSVILLE—Wellsville Hardware Co.
XENIA—Babb, O. L.
Conwell, J. C.
YOUNGSTOWN—Morris Hardware Co., 112
Stambaugh-Thompson Co., Market
ZANESVILLE—Clossman Hardware Co.
Perry Hardware Co.
Shaw, G. W. Mantel & Tile Co., 65 Main

OREGON.

PORTLAND—Barrett, John Co., 410 Morrison
Coleman Hardware Co., 111 3d
Krochman & Hartman, 183 1st
Walsh, M. J. Co., 311 Stark

PENNSYLVANIA.

ALLEGHENY—Duquesne Marble Co., 712 Jack-
son
Knox, Strouss & Bragdon, Preble av & Juniata
Twin City Tiling Co., 16 North av
ALLENTOWN—Bowman & Hersh
Hersh Hardware Co.
Ochs, M. T. J., 450 Wire
Well, F. W. Co., 1031 Linden
BEAVER FALLS—Knott, Harker & Co., 10th
BETHLEHEM—Krause, J. S., av & 8th
Lehigh Valley Corncice Works
BRADFORD—Fox, James B.
Haggerty, M. A.
BUTLER—Campbell, J. G. & W.
O'Brien, W. H. & Son
Rockenstein, M. O.
CHAMBERSBURG—Eyster & Snider
CONNELLSVILLE—Frisbee Hardware Co.
Munson Bros.
CORY—Barlow Hardware Co.

EASTON—Garnier, A. B. & Son
Miller, T. T. Hardware Co.
Osterstock, Joseph S.
ERIE—Constable Bros. Co.
Griffin Mfg. Co.
Hirt, F. W., 6 N Park
Metric Metal Co., 10th & Payne
HARRISBURG—Hoopes, Harry A.
Strayer, Oliver F.
JOHNSTOWN—Swank Hardware Co.
LANCASTER—Arnold, John L., 141 N Queen
Flinn & Breneman, 152 N Queen
Herr & Co.
Steinman Hardware Co.
McKEESPORT—Hartman Hardware Co.
MEADVILLE—Rouche, Frank
NEW CASTLE—Dufford, W. F. & Co.
Frew Furniture Co.
Horton & Whitton Hardware Co.
Smith, Hutton & Kirk Co.
Welch Hardware Co.
NORRISTOWN—Boyer, J. Frank
OIL CITY—Chambers Hdw. Co.
PHILADELPHIA—Buchanan, Jas. M., 2047
Market
Cotter, Michael F., 1316 Ridge av
Daly, James C. & Co., 1626 Chestnut
FRENCH, S. H. & CO., 4th & Cal-
lowhill. (See adv. index, end of book)
Hall-Kline Co., 1927 Market
Italian Marble Mosaic Co., 431 Spruce
Mott, J. L. Iron Works, 1128 Walnut
Peacock, Geo. R., 1111 Vine
Sharpless & Watts, 1520 Sansom
Sloan, Wesley, 1835 Market
Watts, W. H. & Co., 37 E 16th
Weyl, David, 1126 Walnut
Wilson, A. P. Co., Perry bldg
PITTSBURG—Aiken & Co., 501 Liberty av
Central Mantel & Tile Co., 1211 Carson
Detrick, E. J. Co., 345 4th av
East End Mantel & Tile Co., 5914 Baum
McIlvain, S. D. & Co., 5906 Penn av
Mirick, F. B. Co., 430 Penn av
Roening, E. O., 211 7th
Stengel Bros. Co., 104 Market
Waddle, Newton A., 764 W Carson
POTTSTOWN—Bailey, M. W.
Fegely, J. & Son
POTTSVILLE—Bright & Co.
Esterly, D. L. Sons
READING—Bard Hdw. Co.
Bright & Co.
Hoff & Bro.
Obold, Jno. H. & Co.
Penn Tile & Mantel Co.
SCRANTON—Barriscale, Wm. J.
Cowles, W. C.
Foote & Shear Co.
Leonard, Thos. F.
Owens Bros.
SHARON—Wallis & Carley Co.
WILKES-BARRE—Carpenter, B. G. & Co.
Liem, J. W. & Co.
Morgan's, Chas. Sons
White Hardware Co.
Williams, Samuel
WILKINSBURG—Morris, Graff & Co.
WILLIAMSPORT—Williamsport Hardware &
Stove Co.
YORK—Kraber, E. I. & Son, 214 W Market
Stokeley & McNellis

RHODE ISLAND.

NEWPORT—Graham, Joseph, 138 Spring
Horton, J. W. & Co., 42 Church
Peckham Co.
PROVIDENCE—Crooker Mantel & Tile Co.,
230 Weybosset
Cull & Williams, 182 Wash'n
Grimwood, H. A. & Co., 1161 Westminster
Porrer, Jas. A. & Co., Cray st

SOUTH CAROLINA.

ANDERSON—Bartou, J. E.
Brissley, W. L.
CHARLESTON—Masters, R. M., 127 King
Morris, R. J., 130 King
Phoenix Furniture Co., 187 King
Riley, A. J., 143 King
Shepherd Supply Co., 232 Meeting
COLUMBIA—Stewart, W. S.
LAURENS—Wilkes, S. M. & E. H. & Co.
SPARTANBURG—Ezell, S. B.
Montgomery & Crawford
Spartan Hdw. Co.

SOUTH DAKOTA.

ABERDEEN—Aberdeen Granite Co.
Jackson Hardware Co.
Witte Hdw. Co.
SIOUX FALLS—Hackman, E. W. Hdw. Co.
Larson Hdw. Co.
Sioux Falls Hdw. Co.
Williams Bros.

TENNESSEE.

CHATTANOOGA—Cahill Iron Works, 120 Boyce
Fritts, Tom Hdw. Co.
Green, W. T.
Magill Hardware Co.
Snow, T. A. Co.
JACKSON—Anderson, G. C.
KNOXVILLE—Atkin, C. B. (Wholesale Mfr.)
King Mantel Co. (Wholesale Mfr.)
MEMPHIS—Niemeyer, A. E. Mantel Co., 257
Main
Northcross, W. J. Mantel & Grate Co., 392
Ozanne, Frank, 205 Main
NASHVILLE—Allen Mfg. Co.
Edgefield & Nashville Mfg. Co., 1st c Main
Fall, J. H. & Co.
Jones & Hopkins Mfg. Co.
Keith, Simmons & Co.
Lipscomb, H. G. & Co.
Moore, G. & Son, 523 Spruce
Phillips & Co., 213 N College
Phillips & Buttorff Mfg. Co., 219 N College
TRENTON—Smith, C. F. Co.

TEXAS.

AUSTIN—Nalle & Co.
Simpson, J. S. Hardware Co.
Webb, John A. & Bro.
BEAUMONT—Texas Builders' Supply Co.
Wilson, Hdw. Co.
BONHAM—Boswell, J. F.
Smith-Moore-Williams Co.
Thompson-Abernethy Co.
CLARK'S ILLIE—Hocker Bros.
DALLAS—Fakes Furniture & Carpet Co.
Huey & Philip Hardware Co.
DENISON—Hall-Leeper Hardware Co.
Lingo-Leeper Lumber Co.
EL PASO—Emerson & Berrien
Krakauer, Zork & Moyer
FORT WORTH—Ellison Furniture & Carpet
Nash Hardware Co.
GAINESVILLE—Stevens, Kennerly & Spragins
Williams, B. M.
GALVESTON—Ott, Chas. S., 2113 I st
Schadt, Wm., 2801 Mechanic
Smith, J. F. & Bro., 2315 Strand
GREENVILLE—Armstead & Ende
Collins, G. H.
HOUSTON—Bering-Cortes Hdw. Co.
Bering, C. L. & Theo.
Bering Mfg. Co.
Greenberg Bros., 405 Main
Waddell, H., 1102 Prairie av
JEFFERSON—Meyer, Eugene
Torrans Mfg. Co.
LAREDO—Deutz, A. & Bro.
Netzer, Jos.
McKINNEY—Crouch, Saigling & Co.
MARSHALL—Logan & Whaley
SAN ANTONIO—Basse, Wm. Hdw. Co.
Heusinger Hdw. Co.
Schultze Stove & Hardware Co.
SHERMAN—Hardwicke-Etter Hdw. Co.
Roberts, Sanford & Taylor Co.
Walsh Hardware Co.
TERRELL—Muckleroy & Dew
TYLER—Adams, J. R. Hdw. Co.
WACO—Eikel-Breustedt Co.
McLendon Hardware Co.
Strauss, E.
WEATHERFORD—Bell, R. E. Hdw. Co.
Lowe-Carter Hdw. Co.

UTAH.

OGDEN—Boyle Furniture Co., 2462 Wash'n av
Bucher, L. J., 2430 Grant av
SALT LAKE CITY—Dinwoody, H. Furniture
Co., 37 W 1st
Harris, Hyman, 234 S State
Morris, Elias & Sons Co., 21 W South Tem-
Salt Lake Hardware Co., ple
Strevell-Paterson Hardware Co.

VERMONT.

BURLINGTON—Goodell, J. W.
FAIR HAVEN—Fair Haven Marble & Marble-
MONTPELIER—Peck Bros., ized Slate Co.
RUTLAND—Landon, W. C. & Co.
Rutland Marble Mfg. Co.

VIRGINIA.

DANVILLE—Hodnett-Vass-Watson Co.
HAMPTON—Booker, H. R. & Co.
LYNCHBURG—Adams, Monroe Mfg. Co.
Doherty & Casey
NEWPORT NEWS—Rosenbaum Hdw. Co.
NORFOLK—Addenbrook's, J. U. Sons
Barnard, W. H. & Co.
Clark, Frank T. Co.
Nash, C. A. & Son
Thomason, W. S. Co.
White Hdw. Co.

ARTIFICIAL MARBLE

The Highest Grade
of Artificial Marble
is made only by the

MYCENIAN MARBLE CO.

524-526 WEST 34th STREET

NEW YORK CITY

(SEE NEXT PAGE)

THE MYCENIAN MARBLE CO.

developed the processes and originated the
ARTIFICIAL MARBLE business in this
country.

Its product closely resembles both coloring
and veining of the natural marble, it is vastly
superior to the crude work of others and is
universally accepted as the Standard.

It has no connection or affiliation of any
kind with any other concern.

PETERSBURG—Leonard, Chas.
Stratton & Bragg
PORTSMOUTH—Hawks-Maupin Co.
RICHMOND—Baldwin & Brown, 1557 E Main
McGraw, Jas., 1440 E Main
Mills, Morgan R., 809 E Franklin
Richmond Hardware Co., 1316 E Main
Richmond Plumbing & Mantel Co., 619 E Main
Virginia-Carolina Hardware Co., 1322 E Main
ROANOKE—Fairfax & Bell
Marsteller, J. H.
Nelson Hardware Co.
SUFFOLK—Folk, E. L. & Co.

WASHINGTON.

BELLINGHAM—Northwest Hardware Co.
SEATTLE—Miles, Z. C. & Piper Co., 1st av & Spring
Speyers Brick Mantel Co., Globe bldg
SPOKANE—Holley, Mason Hardware Co.
Jenscu-King-Byrd Co.
TACOMA—Bowie & Love
Hunt & Mottet Co.
Washington Mfg. Co.

WEST VIRGINIA.

CLARKSBURG—Williams & Davison Co.
HUNTINGTON—Emmons-Hawkins Hdw. Co.
PARKERSBURG—Chancellor Hdw. Co.
Smith, W. H. Hardware Co.
WHEELING—Burley, J. F. & Co., 1606 Market
Caldwell, B. F. & Co., 1508 Market
Chapman, W. H. & Sons, 1218 Main
Ott, Heiskel Hardware Co.
Wilson, W. A. & Sons

WISCONSIN.

APPLETON—Galpin's, Alfred Sons
Schlafer Hardware Co.
Tesch, Wm.
LA CROSSE—Dittman, Fredk.
Kroner, Adam
Kroner, Fredk. Hardware Co.
MADISON—Summer & Morris
MEMONONIE—Hopgood, Jno.
MILWAUKEE—Durner, U. F., 28 Juneau av
McCusker, J. D. & Co., 612 Grand av
Neidner, H. & Co., 49 Oneida
Ormsby Mantel & Grate Co., 455 Milwaukee
Wisconsin Mantel & Tile Co., 420 Milwaukee
Wollaeger Mfg. Co., 636 N Water
RACINE—Hoernel Hardware Co.
Kersten, Henry A.
SUPERIOR—Dixon & Lowry, 1516 Tower av

*Mantels (Artificial Marble)

MYCENIAN MARBLE CO. (Decorative)
Marble Work of All Kinds; Columns, Wains-
coating, Mantels, etc., 524 W 34th, New
York (See adv. index, end of book)

Mantels (Brick)

Cleveland Hydraulic Press Brick Co., Schofield
bldg, Cleveland, O.
Fallston Fire Clay Co., Fallston, Pa.
FISKE & COMPANY (Inc.), 161 Devon-
shire, Boston, Mass., & Flat Iron bldg,
New York. (See adv. index, end of book)
Harris Brick Co., 27 Great Jones, New York,
& Zanesville, O.
Ohio Mining & Mfg. Co., Shawnee, O., & 96
Wall, New York
Orchard Knob Clay Works Co., Ironton, O.
Phila. & Boston Face Brick Co., 165 Milk, Bos-
ton, Mass.
Washington Brick & Lime Mfg. Co., Spokane,
Wash.

Mantels (Faience)

Gruehy Faience Co., E 1st & K, Boston, Mass.
Hartford Faience Co., Hartford, Conn.
Zanesville Tile Co., 147 W 23d, N. Y., &
Zanesville, O.

Mantels (Iron, Electro Bronze Plated)

Hecla Iron Works, 118 N 11th, Brooklyn, N. Y.

Mantels (Marble)

(See Marble Interior Work.)

Mantels (Marbleized Iron)

Bridgeford & Co., Louisville, Ky.
Fischer-Leaf Co., 1438 High, Louisville, Ky.
Kentucky Stove Co., 1401 Delaware, Louisville,
Ky.

Mantels (Marbleized Slate)

Allen's, S. Sons, Fair Haven, Vt.
Bangor Crescent Slate Co., Bangor, Pa.
Coulman & Westcott, Fair Haven, Vt.
Criterion Slate Co., Hydeville, Vt.
Fair Haven Marble & Marbleized Slate Co., Fair
Haven, Vt.

FRENCH, SAM'L H. & CO., 4th & Cal-
lowhill, Phila., Pa. (See adv. index, end
of book)
Penna. Structural Slate Co., Easton, Pa.
Taylor, Wm. M. Mantel & Grate Co., Columbus,
O.

Mantels (Mosaic)

Giannini & Hilgart, 211 E Madison, Chicago, Ill.
Hawes & Dodd, 24 Adams, Chicago, Ill.
Italian Marble Mosaic Co., 431 Spruce, Phila.,
Pa.
Pellarin & Co., 23 W 8th, New York
Sharpless & Watts, 15th & Walnut, Phila., Pa.
Stoltzenberg Co., 51 & 53 Barclay, N. Y.
Traitel Bros. & Co., 44 E 19th, New York
Zanesville Tile Co., 147 W 23d, N. Y., & Zanes-
ville, O.

Mantels (Onyx)

BATTERSON & EISELE, Main Of-
fice & Works Edgewater, N. J., & Times
bldg, 42d st, New York. (See adv. index,
end of book)
Christa, Philip & Sons, 504 Lafayette av, De-
troit, Mich.
Fisher, Robert C. Co., E 139th & Locust av,
New York
Klaber, S. & Co., 126 W 34th, New York
McGratty & Sons, 313 Butler, Brooklyn, N. Y.
Theis, Peter Sons, cor. 1st av & 37th, New York

Mantels (Slate)

(See also Slate Mill Stock; also Mantel, Grate
& Tile Dealers; also Mantels, Marbleized
Slate)

Allen's, S. Sons, Fair Haven, Vt.
American Slate Co., Bangor, Pa.
Auld & Conger Co., 262 Prospect av, Cleveland,
O.
Bangor Crescent Slate Co., Bangor, Pa.
Chicago Slate & Mantel Co., 232 S Clinton,
Chicago, Ill.

Columbia Bangor Slate Co., Bangor, Pa.
Fair Haven Marble & Marbleized Slate Co., Fair
Haven, Vt.

FRENCH, SAM'L H. & CO., 4th & Cal-
lowhill, Philadelphia, Pa. (See adv. index,
end of book)

Hahn, Granville, Walnutport, Pa.
Hall-Kline Co., 1927 Market, Phila., Pa.
JACKSON, WM. H. COMPANY, 29 E
17th (Union sq), New York. (See adv. in-
dex, end of book)

Mack, Jno., Middle Granville, N. J.
Monson Maine State Co., 113 Devonshire, Bos-
ton, Mass.

North Bangor Slate Co., Bangor, Pa.
Penna. Structural Slate Co., Easton, Pa.
Penrhyn Slate Co., 493 E 138th, New York
Schilling Co., 43 Eagle, Albany, N. Y.

SCRANTON SLATE CO., Slatington,
Pa. (See adv. index, end of book)
Sun Slate Co., Slatington, Pa.

Taylor, Wm. M. Mantel & Grate Co., Columbus,
Ohio
Williams & Schmidt, Granville, N. Y.

Mantels (Terra Cotta)

(See Terra Cotta, Architectural)

Mantels (Wood)

(See also Mantels, Grates & Tiles.)

Alcott-Ross Co., 2917 N Broad, Phila., Pa.
Allen & Curry (Wholesale Mfrs.), Shreveport,
La.

American Sash & Door Co. (Roach & Kienzle
Factory) (Wholesale Mfrs.), Kansas City,
Mo.

Art Furniture & Grille Co., Seattle, Wash.
Bennett & Schutte, 184 Valencia, San Francisco,
Cal.

Bering Mfg. Co. (Wholesale Mfrs.), Houston,
Tex.

Bossert, Louis & Son, Grand st & Newton Creek,
Brooklyn, N. Y.

Carolina Mfg. Co., Charlotte, N. C.
CHICAGO MILL WORK SUPPLY CO.,
cor. 22d & Sangamon, Chicago, Ill. See adv.
index, end of book)

Conway Veneered Door & Mantel Co., 20th & St.
Paul av, Milwaukee, Wis.

Currier, Bradley & Co., 119 W 23d, New York
Ourtis Bros. & Co. (Wholesale Mfrs.), Clinton,
Ia., & Sioux City, Ia.

Ourtis & Bartlett Co. (Wholesale Mfrs.), Lincoln,
Neb.

Curtis & Yale Co. (Wholesale Mfrs.), Wausau,
Wis.

Curtiss, A. Judson, 109 W Ex pl, Kalamazoo,
Mich.

Cypress Tank & Mfg. Co. (Wholesale Mfrs.),
Patterson, La.

Dame Mantel Co. (Wholesale Mfrs.), Harriman,
Tenn.

Davis, E. J. Mfg. Co., 251 W 21st, Chicago, Ill.
Dawson Bros. (Wholesale Mfrs.), 197 N Hal-
stead, Chicago, Ill.

Dishrow, M. A. & Co. (Wholesale Mfrs.), Lyons,
Ia.

East Rockford Mantel Co., Rockford, Ill.

Enterprise Planing Mill Co., Hillsboro, O.

Foster-Munger Co. (Wholesale Mfrs.), W 20th
& S Sagamon, Chicago, Ill.

FRENCH, SAMUEL H. & CO., 4th &
Callowhill, Phila., Pa. (See adv. index, end
of book)

Gauger, Jno A. & Co. (Wholesale Mfrs.), W 22d
& Laflin, Chicago, Ill.

Gould Mfg. Co. (Wholesale Mfrs.), Oshkosh, Wis.

Grand Rapids Clock & Mantel Co., Grand Rap-
ids, Mich.

Hegan Mantel Co., 631 4th, Louisville, Ky.

Herter Bros., 489 5th av, New York

Hornet Mantel Co., 1114 Market, St. Louis, Mo.

Huey, M. S. Co., 73 Pendleton av, Indianapolis,
Ind.

Hyde-Murphy Co., Ridgeway, Pa.

Interior Wood Working Co., 296 Wabash av,
Chicago, Ill.

Ironton Wood Mantel Co., Ironton, O.

Irving & Casson, 150 Boylston, Boston, Mass.

JACKSON, WM. H. COMPANY, 29 E
17th (Union sq), New York. (See adv. in-
dex, end of book)

Kertscher & Co., Elmira, N. Y., & 13 Law-
rence, N. Y.

Killian Bros. & Sommer, 12th av & 30th, New
York

King Mantel Co., 624 Gay, Knoxville, Tenn.

Leclair Mfg. Co., Edwardsville, Ill.

Lorenzen, Chas. F. & Co., 278 N Ashland av,
Chicago, Ill.

McClamroch Mantel Co., Greensboro, N. C.

McMillen, R. Co. (Wholesale Mfrs.), Oshkosh,
Wis.

Manhattan Mantel Co., 145 Av D, N. Y.

Matthews Bros. Mfg. Co., 61 4th, Milwaukee,
Wis.

Messer & Isenberg, 62 Springfield, Newark, N. J.

Mitchell, Robert Furniture Co., 624 Race, Cin-
cinnati, O.

Moline Furniture Works, Moline, Ill.

Morgan Co. (Wholesale Mfrs.), Oshkosh, Wis.,
& W 23d & S Union, Chicago, Ill.

Moss, R. L. Mfg. Co. (Wholesale Mfrs.), Athens,
Ga.

Mount Airy Mantel & Table Co., Mount Airy,
N. C.

Munson & Waite, Jamestown, N. Y.

Muscatine Sash & Door Co. (Wholesale Mfrs.),
Muscatine, Ia.

Nalle & Co. (Hard & Soft Wood Wholesale
Mfrs.), Austin, Tex.

National Lumber Co. (100 Designs), McKeesport,
Pa.

Nesbit, D. M. Co., Lewishurg, Pa.

Newark Mantel & Furniture Co., 59 Poinier,
Newark, N. J.

New York Dimension Supply Co., Evansville,
Ind.

Ocker & Ford Mfg. Co., Grand Rapids, Mich.

Ostendorf, W. H., 2417 N Broad, Phila., Pa.

Palme Furniture Co., 48 Canal, Boston.

Paine Lumber Co. (Wholesale Mfrs.), Oshkosh,
Wis., & 1 Madison av, N. Y.

Palmer-Fuller & Co. (Wholesale Mfrs.), 2244
Lumber, Chicago, Ill.

Paulson, John P., 15th & Wynkoop, Denver,
Colo.

Pease Co. (Wholesale Mfrs.), Cincinnati, O.

Phillips & Buttorf Mfg. Co., Nashville, Tenn.

Rock Island Sash & Door Works (Wholesale Mfrs.), Rock Island, Ill.
 Ross Mantel & Mfg. Co., Buffalo, N. Y., & 884 Columbus av., N. Y.
 Rummler, H. B., 367 W 11th, N. Y.
 St. Croix Lumber Co., 185 E Fairfield av., St. Paul, Minn.
 St. Paul Furniture Co., 7 Corners, St. Paul, Minn.

STEARNS, A. T. LUMBER CO., Neponset, Boston, Mass. (See adv. index, end of book)

Sterling Furniture Co., 1039 Market, San Francisco, Cal.

Steul & Thurman, 278 Johnson, Buffalo, N. Y.

Taylor, Wm. M., Mantel & Grate Co., Inc., Columbus, O.

Tell City Desk Co., Tell City, Ind.

Thauwald, C. F. & Co., 1214 Harrison av., Cincinnati, O.

Thompson, Lewis & Co., 18th & Indiana av., Phila., Pa.

Ticnesta Mantel Mfg. Co., Ticnesta, Pa.

Voss, A. F. Mantel Co. (Wholesale Mfrs.), 16th & Arbegust, Louisville, Ky.

Warren Woodworking Co., Belvidere, N. Y.

Whitcomb Cabinet Co., Wyandotte & 18th, Kansas City, Mo.

White Mantel & Tile Co., 622 Gay, Knoxville, Tenn.

White, Potter & Paige Mfg. Co., 415 Willoughby, Brooklyn, N. Y., & 26 W 24th, New York

Wiklem & Sederholm Bldg. & Mantel Co., 739 W 13th av., Denver, Col.

Williams Mfg. Co., 191 Kennebec, Portland, Me.

Zanesville Mantel & Furniture Co., Zanesville, O.

Mantles (Incandescent Gas)

American Incandescent Lamp Co., 55 Park pl., Breig, Geo. F., Vandergrift, Pa. N. Y.

Buffalo Lighting Co., 15 Niagara, Buffalo, N. Y.

Colonel Gas Burner Co., Columbus, O.

Consolidated Incandescent Light Co. ("Consol," "Apollo," "Victor," "Acme," "Star," & "Ideal"), 25 W B'way, N. Y.

Cosmopolitan Co. ("Cosmopolitan"), 41 State, Chicago, Ill.

Cremo Incandescent Light Co. ("Vulcan"), 110 E 129th, N. Y.

De Lery Light Co., 256 W 23d, N. Y.

Deutsch, Chas. (Plain and Fancy Webblings), 538 E 87th, N. Y.

Duquesne Incandescent Light Co., 107 Wood, Pittsburgh, Pa.

Erie Gas Mantle Mfg. Co., Erie, Pa.

Fawcett Incandescent Mantle Co. ("Superb," "Celloid"), 399 Prospect, Cleveland, O.

Forest City Incandescent Mantle Co. ("Paragon," "Monitor," "Ohio"), 437 Woodland av., Cleveland, O.

General Lighting Appliance Co., 1607 Olive, St. Louis, Mo.

Globe Mantle & Light Co., 508 E Washn, Indianapolis, Ind.

Herz Lighting & Mfg. Co., 29 E 7th, St. Paul, Minn.

International Light Co., 76 5th av, Chicago

Iowa Mantle Mfg. Co., Davenport, Ia.

Irby & Gilliland, Memphis, Tenn.

Liberty Gas Light Co. (Liberty & Francis Double Cap), 1334 N. High, Columbus, O.

Liberty Mantle Mfg. Co., 108 Franklin, Chicago, Ill.

Mica Mfg. Co., 307 W B'way, N. Y.

Michigan Gas Mantle Co., 1383 Jefferson, Detroit, Mich.

Momand Light Co. ("Arrow," "Brilliant," "Lion," "Sunlight"), 90 B'way, N. Y.

National Light Supply Co., 123 Liberty, New York

Newark Gas Mantle Co., 45 Mechanic, Newark, N. J.

Omaha Mantle Mfg. Co. ("Diamond"), Omaha, Neb.

Pecrless Light Co. ("Flexo"), Chicago, Ill.

Raritan Mantle Co., 7 Chatham sq, N. Y.

Solar Incandescent Co., 73 W Kinzie, Chicago

Stamford Gas Store Co., Stamford, Conn.

Steward, D. M. Mfg. Co. ("Alva"), Chattanooga, Tenn.

Van Houten, E. J. S., 74 Park pl, N. Y.

Welsbach Light Co. ("Majestic," "Shamrock," "Thenu," "Yusea," "Black Prince," "Metropolitan," "Clover," "Apollo," "Star," "Consul," "Aladin"), Gloucester, N. J.

West Somerville Mfg. Co., West Somerville, Mass.

Whalcbone Gas Mantle Co., Sioux City, Iowa

Maple Sugar & Syrup Makers' Supplies

Bell, C. S. Co., Hillsboro, O.
 Champion Evaporator Co., Hudson, O.
 Densmore Bros., Red Wing, Minn.
 Grimm, G. H. & Co., Rutland, Vt.
 Hydraulic Press Mfg. Co., Mt. Gilead, O.

*Marble (Alabaster)

BOCKMANN, A. E., 1265-9 B'way, New York. (See adv. index, end of book)

Marble Altars

BATTERSON & EISELE, Main Office & Works, Edgewater, N. J., & Times bldg, 42d st. New York. (See adv. index, end of book)

Christa, Philip & Sons, 504 Lafayette av., Detroit, Mich.

Church Art Work Co., 151 E 18th, New York

Empire City Marble Co., 250 11th av, New York

Fisher, Robert C. Co., E 139th & Locust av, New York

Hall, Chas. E. & Co., E Cambridge, Mass.

Hillgartner Marble Co., Baltimore, Md.

Ledig, Reinhold G., 821 Cherry, Phila., Pa.

Leland & Hall Co., 557 5th av, New York

Marthens, Chester N. Co., 748 First National Bank bldg, Chicago, Ill.

Pickel Marble & Granite Co., 1901 N Broadway, St. Louis, Mo.

Sibbel, Jos., 214 E 26th, New York

Standard Marble Works (John M. Mueller, Jr., Propr.), 706 W Front, Cincinnati, O.

Stoltzenberg Co., 51 Barclay, N. Y.

Theis' Peter Sons, c 1st av & 37th, New York

*Marble (Antique Fonce & Verdatre)

BOCKMANN, A. E., 1265-9 B'way, New York. (See adv. index, end of book)

*Marble (Argos)

BOCKMANN, A. E., 1265-9 B'way, New York. (See adv. index, end of book)

Marble (Artificial)

AMERICAN ART MARBLE CO., 609 N. American, Phila., Pa. (See adv. index, end of book)

Arcadia Marble Co., 1 Madison av, New York

Art Marble Co., 389 Flournoy, Chicago, Ill.

Artificial Marble Co., 619 W 29th, New York

Brady-Dackert Co., 1118 Chestnut, Phila., Pa.

Cincinnati Plastic Relief Co., Station M, Cincinnati, O.

Eastman & Johnstone Mfg. Co., 1711 S Charles, St. Louis, Mo.

Henry Marble Co., 3208 Shields, Chicago, Ill.

Knickmann & Nocenti, 525 W 26th, New York

MYCENIAN MARBLE CO., 524-26 W 34th, New York. (See adv. index, end of book)

Parsons, Chas. H., 1936 Park av, New York

***Marble (Benon Jaune, Vert & Jaspe)**

BOCKMANN, A. E., 1265-9 B'way, New York. (See adv. index, end of book)

Marble (Black)

United States Marble Co. (Black Diamond), Spokane, Wash.

***Marble (Breche Rose & Vert)**

BOCKMANN, A. E., 1265-9 B'way, New York. (See adv. index, end of book)

Marble (Carrara)

Jackson, C. D., 105th & E. R., New York

*Marble (Citron)

BOCKMANN, A. E., 1265-9 B'way, New York. (See adv. index, end of book)

Marble (Colored, Foreign)

BOCKMANN, A. E., 1265-9 B'way, New York. (See adv. index, end of book)
 Jackson, C. D., 105th & E. R., New York

*Marble Columns (Artificial)

MYCENIAN MARBLE CO. (Complete Interiors), 524 W 34th, New York. (See adv. index, end of book)

Marble Cutters' Tools & Supplies

(See Tools, Granite & Marble Cutters, etc.)

Marble Dust Mfrs.

California Portland Cement Co., Los Angeles, Cal.

FRENCH, SAMUEL H. & CO., 4th & Callowhill, Philadelphia, Pa. (See adv. index, end of book)

Higginson Mfg. Co., Newburgh, N. Y.

Illinois Marble Co., Edwardsville, Ill.

Jackson, C. D., 105th & E. R., New York

King, J. B. & Co., 1 B'way, New York

Lee White Marble & Terazzo Co., Lee, Mass.

McIlvaine Bros. (for Builders' Use, Soap Makers & Granulated for Filtering, etc.), 1500 Hamilton, Phila., Pa.

RUTLAND FIRE CLAY CO. (Pulverized), Rutland, Vt. (See adv. index, end of book)

Stearns Lime & Stone Co., 165 E Randolph, Chicago, Ill.

Williamson, Frank & Co., 2202 Chestnut, Phila., Pa., & Avondale, Pa.

Marble Electric Work

(See Marble Interior Work)

Marble Exterior Work

BATTERSON & EISELE, Main Office & Works, Edgewater, N. J., & Times bldg, 42d st. New York. (See adv. index, end of book)

Beaver Dam Marble Co., 704 Constitution, Baltimore, Md.

Bradbury Marble Co., 1229 S 2d, St. Louis, Mo.

Georgia Marble Finishing Works, Canton, Ga.

Gray, Wm. & Sons, 30th & S Walnut, Phila., Pa.

Krulisb, J., 351 E 61st, N. Y.

McWhirter Cut Stone Co., Camden, N. J.

Norcross Bros. Co., Worcester, Mass.

Norcross Co., 269 W River, Cleveland, O.

Rutland Marble Mfg. Co., Rutland, Vt.

Sinclair, Jas. & Co., 413 E 29th, N. Y.

Sisson, Hugh & Sons, 210 E German, Baltimore, Md.

Southern Marble Co., Marble Hill, Ga., & Worcester, Mass.

Vermont Marble Co., Proctor, Vt.

Waverly Marble Co., 1 Madison av, New York

Marble Flour

(See also Marble Dust)

Higginson Mfg. Co., Newburgh, N. Y.

Ohio Marble Co., Piqua, O.

Whitaker, W. H., 245 Front, New York

*Marble (Graf Green)

BOCKMANN, A. E., 1265-9 B'way, New York. (See adv. index, end of book)

*Marble (Greek)

BOCKMANN, A. E., 1265-9 B'way, New York. (See adv. index, end of book)

Marble (Green)

Fisher, R. C. Co. (Irish), E 139th & Locust av, New York

Georgia Verd Antique Marble Co. ("Georgia"), 108 La Salle, Chicago, Ill.

Quarries: Holly Springs, Ga.

Jackson, C. D., 105th & E. R., New York

United States Marble Co. (Canyon & Athenian), Spokane, Wash.

Westfield Marble & Sandstone Co., Westfield, Mass.

*Marble (Griotte)

BOCKMANN, A. E., 1265-9 B'way, New York. (See adv. index, end of book)

AWARDED GRAND PRIZE AND TWO GOLD MEDALS, LOUISIANA PURCHASE EXPOSITION, ST. LOUIS.

No other Artificial Marble has ever received this honor in the United States or Europe.

AMERICAN ART MARBLE CO.

609, 611, 613 NORTH AMERICAN ST.,
PHILADELPHIA, PA.



23d Street Ferry House. Delaware, Lackawanna & Western R. R., New York City.

WITH THE LARGEST AND MOST MODERN PLANT FOR THE MANUFACTURE OF ARTIFICIAL
MARBLE, WE CAN REPRODUCE ANY OF THE DECORATIVE AND HIGHLY PRIZED FOREIGN
MARBLES FOR WAINSCOTINGS, COLUMNS, PILASTERS, ALTERS, ETC., IN VERY SHORT NOTICE

WRITE FOR PARTICULARS

BATTERSON & EISELE

IMPORTERS AND WORKERS OF
MARBLE, STONE and GRANITE

ROMAN AND VENETIAN MOSAICS
FOR FLOORS, WALLS, MANTELS, ETC.

The accompanying illustration is from a photograph of Broadway Corridor Chemical Bank, Broadway and Chambers Streets.



Trowbridge &
Livingston,
Architects.

OFFICE: TIMES BUILDING, - NEW YORK
WORKS: EDGEWATER, N. J.

***Marble (Imperial)**

(Gold Vein, Violet & Gold, Fleur de Pechert & Deep Violet.)

BOCKMANN, A. E., 1265-9 B'way,
New York. (See adv. index, end of book)

Marble Importers

(See also Marble, Wholesale.)

Andersou Bros., Jamaica Plains, Boston, Mass.,
and Aberdeen, Scotland

BATTERSON & EISELE, Main Office
& Works, Edgewater, N. J., & Times bldg.
42d st, New York. (See adv. index, end of book)

BOCKMANN, A. E., 1265-9 B'way,
New York. (See adv. index, end of book)

Church Art Work Co., 151 E 18th, New York
Empire City Marble Co., 90 West, New York
Evaus Marble Co., 204 E York, Baltimore, Md.
Fenn, C. E. & Co., 164 Dearborn, Chicago, Ill.
Fisher, Robert C. Co., E 139th & Locust av,
New York

Jackson, C. D., 105th & E. R., New York
Maxwell & Dempsey, 76 Jefferson, New York
Peugnet, Edw. H., 239 4th av, New York
Pisan Bros., 14th & Ave D, New York
Roussel, Chas. J., 524 W 50th, New York
Taber & Co., 446 E 106th, New York
Townsend, Townsend & Co., 453 W 21st, N. Y.

Marble Importers (Italian)

BATTERSON & EISELE, Main Office
& Works, Edgewater, N. J., & Times bldg.
42d st, New York. (See adv. index, end of book)

BOCKMANN, A. E., 1265-9 B'way,
New York. (See adv. index, end of book)

Jackson, C. D., 105th & E. R., New York

Pisan Bros., 14th & Ave D, New York

Roussel, Chas. J., 524 W 50th, New York

***Marble Importers (White)**

BOCKMANN, A. E., 1265-9 B'way,
New York. (See adv. index, end of book)

Marble Interior Work

(See also Plumbers' Marble Work; also Marble Producers)

AMERICAN ART MARBLE CO., 609
N American, Phila., Pa. (See adv. index,
end of book)

Barney Marble Co., Swanton, Vt.

BATTERSON & EISELE, Main Office
& Works, Edgewater, N. J., & Times bldg,
42d st., New York. (See adv. index, end of book)

Bennington Marble Co., Dorset, Vt. (book)
Blue Ridge Marble Co. (Georgia & Tenn. Marble
Only), Nelson, Ga.

Bowker, Torrey & Co., 55 Chardon, Boston,
Mass.

Bradbury Marble Co., 1229 S 2d, St. Louis, Mo.
Bronx Marble Works, 522 E 134th, New York

Buckeye Marble & Freestone Co., 3d & Eggleston av, Cincinnati, O.

Buess, Wm., 316 E 95th, New York

CASCIO, S. (Counter Work, Plum-
bers' Work Marble Top Table, Tiling, etc.)
797-803 Lexington av, Brooklyn, N. Y. (See
adv. index, end of book)

Christa, Philip & Sons, 504 Lafayette av, Detroit, Mich.

Cleveland Marble & Mosaic Co., Builders' Ex.,
Cleveland, O.

Cook, T. W. & Co., 1623 Tremont, Denver, Col.
Davidson Bros. Marble Co., ft. of Orleans, Chicago, Ill.

Davis, Frank L., Fuller bldg, New York

Davis Marble Co., 214 S 24th, Phila., Pa.

Davison Bros. Marble Co., Chicago, Ill.

Drake Marble & Tile Co., St. Paul, Minn., &
510 S 2d, Minneapolis, Minn.

Duquesne Marble Co., Allegheny, Pa.

Eckhardt Monumental Co., 27 N Erie, Toledo, O.

Ellin, Kitson & Co., ft of W 25th, N. Y.

Empire City Marble Co., 90 West, New York

Eschmann, B. & J., 638 1st av, New York

Evaus Marble Co., 204 E York, Baltimore, Md.

Fisher, Robert C. Co., E 139th & Locust av,
New York

FRENCH, SAMUEL H. & CO., 4th &
Callowhill, Phila., Pa. (See adv. index, end
of book)

Georgia Marble Finishing Works, Canton, Ga.

Grant Marble Co., 27th & Canal, Milwaukee.

Gray, Chas. M. Marble & Slate Co., 131 W
24th, Phila., Pa.

Gray, Wm. & Sons, 30th & Walnut, Phila., Pa.

Great Western Marble Works Co., 1602 Reading
rd, Cincinnati, O.

Grob, German & Son, 502 W 35th, New York

Hall, Chas. E. & Co., E Cambridge, Mass.

Hilgartner Marble Co., Baltimore, Md.

Horssnyder, F., Front & Dayton, Hamilton, O.

Illinois Marble Co., Edwardsville, Ill.

Kirkpatrick Bros., 23d & Wash'n, Phila., Pa.

Klaber, S. & Co., 126 W 34th, New York

Krulich, J., 351 E 61st, New York

Lee White Marble & Terrazzo Co., Lee, Mass.

Leland & Hall Co., 557 5th av, N. Y. City

Lloyd Bros. Co., Toledo, O.

McGratty & Sons, 313 Butler, Brooklyn, N. Y.

McLaury, D. H. Marble Co., Walnut av, nr
141st, New York

Manning, John F. & Co., 133 Pennsylvania av,
N. W., Washington, D. C.

Maresca-Walsh Tile & Marble Works, 31 E
135th, New York

Marthens, Chester N. Co., 748 First National
Bank bldg, Chicago, Ill.

Martinelli & Thoma (Scagliola), 322 7th av,
New York

MYCENIAN MARBLE CO., 524-26 W
34th, New York. (See adv. index, end of book)

New York Marble Co., Moore, Astoria (Bor-
rough of Queens), New York

Norcross Bros. Co., Worcester, Mass.

Norcross Co., 269 W River, Cleveland, O.

Norcross-West Marble Co., 10 E Worcester,
Worcester, Mass. Mills, Manchester Depot,
Vt.

Northwestern Mantel Co., 419 S 6th, Minne-
apolis, Minn.

Peoria Stone & Marble Works, Peoria, Ill.

Pickel Marble & Granite Co., 1901 N B'way,
St. Louis, Mo.

Rutland Marble Mfg. Co., Rutland, Vt.

Schilling Co., 43 Eagle, Albany, N. Y.

Schlichter, P. M. & W., 642 W 47th, New York

Shaver, Jos. Granite & Marble Co., 506 7th,
Milwaukee, Wis.

Sickels, Geo. B. & Co., Tate, Ga.

Southern Marble & Stone Co., Jacksonville, Fla.

Standard Marble Works (Jno. M. Mueller, Jr.,
prop.), 706 W Front, Cincinnati, O.

Theis', Peter Sons, 1st av c 37th, New York

Toscani Bros. (also Interior Slate Works), 163
E 35th, New York

Toseani, J. A. & Co., 154 E 33d, New York

Traitel Marble Co., Long Island City, N. Y.

Tuma, Albert F., 103 E 125th, New York

WEGE, CHAS., MARBLE & TILE
Co., 375 W Rich, Columbus, O. (See adv.
index, end of book)

Young, B. P. Co., Pittsburg, Pa.

***Marble (Italian White)**

BOCKMANN, A. E., 1265-9 B'way,
New York. (See adv. index, end of book)

***Marble (Karystos)**

BOCKMANN, A. E., 1265-9 B'way,
New York. (See adv. index, end of book)

***Marble (Lilas)**

BOCKMANN, A. E., 1265-9 B'way,
New York. (See adv. index, end of book)

***Marble (Mani)**

BOCKMANN, A. E., 1265-9 B'way,
New York. (See adv. index, end of book)

***Marble (Marmor, Lt.)**

BOCKMANN, A. E., 1265-9 B'way,
New York. (See adv. index, end of book)

Marble Mosaic

(See Mosaics, Various Kinds.)

Marble Mosaic Cube Importers

(See Mosaic Cube Importers, Etc.)

***Marble (Mycenian)**

MYCENIAN MARBLE CO., 524-26 W
34th, New York. (See adv. index, end of book)

***Marble (Negalla, Alma)**

BOCKMANN, A. E., 1265-9 B'way,
New York. (See adv. index, end of book)

***Marble (Noir Antique)**

BOCKMANN, A. E., 1265-9 B'way,
New York. (See adv. index, end of book)

***Marble (Norwegian, White)**

BOCKMANN, A. E., 1265-9 B'way,
New York. (See adv. index, end of book)

***Marble (Paros)**

BOCKMANN, A. E., 1265-9 B'way,
New York. (See adv. index, end of book)

***Marble (Penteli, White)**

BOCKMANN, A. E., 1265-9 B'way,
New York. (See adv. index, end of book)

Marble (Plumbers')

(See Plumbers' Marble Work.)

***Marble (Porta Santa)**

BOCKMANN, A. E., 1265-9 B'way,
New York. (See adv. index, end of book)

Marble Producers**ALABAMA.**

SYLACAUGA—Alabama White Marble Co.

GEORGIA.

ATLANTA—Southern Quarry Co.

CANTON—Brady, T. M.

Georgia Marble Finishing Works

GRIFFIN—Jones, H. H. & Co.

HOLLY SPRINGS—Georgia Verd Antique Mar-
ble Co. (Green), 108 La Salle, Chicago, Ill.

MARBLE HILL—Southern Marble Co.

MARIETTA—Butler Bros.

Kennesaw Marble Co.

McNeel Marble Co.

Mozley, S. G. & Co.

NELSON—Blue Ridge Marble Co.

TATE—Georgia Marble Co.

Sickels, Geo. B. & Co.

ILLINOIS.

CHICAGO—Beldens Falls Marble Co., 140 Dear-
born

Columbian Marble Quarrying Co., 36 La-
salle

Davidson Bros. Marble Co., ft Orleans

Evans Marble Co., Ashland blk

Georgia Marble Co., 200 Monroe

Georgia Verd Antique Marble Co. (Green),
108 La Salle, Quarries at Holly Springs,
Ga.

Georgia Marble Co., 200 Monroe

MARYLAND.

BALTIMORE—Beaver Dam Marble Co., 704 Con-
Evans Marble Co., 204 E York stitution

Godfrey, T. S. Marble Co., 218 E York

Sisson, Hugh & Sons, 210 E Baltimore

EAKLES MILLS—Washington Marble Co.
(Cremo, Venato & Cipilling Marbles)

MASSACHUSETTS.

ASHLEY FALLS—Ashley Falls Marble Co.

GREAT BARRINGTON—Chester, Goodale Mar-
ble Co.

LEE—Berkshire Marble Co.

Gross, W. H.

Lee Marble Co.

Lee White Marble & Terrazzo Co.

WESTFIELD—Westfield Marble & Sandstone Co.

WORCESTER—Norcross Bros. Co. (Georgia,
Tuckahoe & Vermont), 10 E Worcester

Norcross-West Marble Co. (White, White
Mottled & Silver Gray), 10 E Worcester.

Mills, Manchester Depot, Vt.

MISSOURI.

CARTHAGE—Carthage Consolidated Quarry Co.

*Carthage Marble & White Lime Co.

ST. LOUIS—Carthage Marble & White Lime Co.,
Emille bldg

MONTANA

HELENA—Montana Marble & Mining Co.

NEW YORK.

GOVERNEUR—Davidson Bros. Marble Co.
Dunkelberg, C. C.
Gouverneur Marble Co.
Hurlbert & Scholten (Wholesale)
Northern New York Marble Co.
White Crystal Marble Co.
Whitney, Dan'l J. (Wholesale)
NEW YORK—BATTERSON & EISELE,
Times bldg (42d st), New York. (See adv.
index, end of book)
Beech Island Marble Co., 158 B'way
Colorado-Yule Marble Co., 320 5th av.
Quarries: Marble, Colo.
Norcross Bros. Co. (Georgia, Tuckahoe &
Vermont), 160 5th av
Snowflake Marble Co., 156 B'way, N. Y.
South Dover Marble Co., 156 5th av
Tuckahoe Marble Co., 413 E 29th
Waverly Marble Co. (Tuckahoe), 1 Madison
av
SOUTH DOVER—South Dover Marble Co.

PENNSYLVANIA.

KING OF PRUSSIA—Schweyer & Liess (Blue
& Dark Blue)
LEBANON—Keystone Marble Co.
PHILADELPHIA—Columbian Quarrying Co.,
Heed bldg
Freedley, J. K. & Sons ("Manchester"), 210
S 24th
Penna. Marble & Granite Co. (Penna. White)
Peverley Bros., 1215 Filbert
Reynolds, R. V. & Co., Heed bldg
WEST GROVE—Penna. Marble & Granite Co.

SOUTH DAKOTA.

CUSTER—Black Hills Porcelain Clay & Marble
Co.

TENNESSEE.

FRIENDSVILLE—Tennessee Varigated Marble
Co.
KNOXVILLE—American Marble Co.
Craig, Jno. J. Co.
Evans Marble Co.
Godfrey, T. S. Marble Co.
Knoxville Monumental Works
Ross Marble Co.
Southern Monument Co.
Tennessee Producers' Marble Co.
United States Marble Co.

UTAH

HUNTINGTON—Castle Valley Marble Co.
(Variety of Colors)

VERMONT.

BRANDON—Brandon Italian Marble Co.
DORSET—Bennington Marble Co.
EAST DORSET—Dorset Mountain Marble Co.
FOWLER—Rutland Florence Marble Co.
Freedley, J. K. & Sons
MANCHESTER DEPOT—Norcross-West Marble
Co. (White, White Mottled & Silver Gray)
PROCTOR—Vermont Marble Co.
RUTLAND—Columbian Marble Quarrying Co.
Rutland Marble Mfg. Co. (Mfrs. & Dealers)
Temple Bros. (Dealers)
SWANTON—Barney Marble Co.

VIRGINIA.

RICHMOND—Wray, Andrew J.

WASHINGTON.

COLVILLE—Jefferson Marble Mining & Milling
Co. (About 23 Different Colors)
SPOKANE—Columbia River Marble Co. (White,
Mottled, etc.)
United States Marble Co. (Green, Black,
Purple, etc.), Spokane, Wash.

***Marble (Rose Vif.)**

BOCKMANN, A. E., 1265-9 B'way,
New York. (See adv. index, end of book)

Marble (Royal Irish Green)

Fisher, R. C. & Co., E 139th & Locust av,
New York

Marble Sawing Machines

(See Stone Sawing Machines)

Marble (Serpentine)

BOCKMANN, A. E., 1265-9 B'way,
New York. (See adv. index, end of book)
Fisher, Robert C. Co., E 139th & Locust av,
New York
Jackson, C. D., 105th & E. R., New York
United States Marble Co., Spokane, Wash.
Westfield Marble & Sandstone Co. (Black &
Green). Westfield, Mass.

***Marble (Skyros)**

BOCKMANN, A. E., 1265-9 B'way,
New York. (See adv. index, end of book)

***Marble Statuary**

BATTERSON & EISELE, Main Office
& Works, Edgewater, N. J., & Times bldg.
42d st, New York. (See adv. index, end of
book)

***Marble (Styra, Cippolino)**

BOCKMANN, A. E., 1265-9 B'way,
New York. (See adv. index, end of book)

***Marble (Tinos)**

BOCKMANN, A. E., 1265-9 B'way,
New York. (See adv. index, end of book)

Marble (Wholesale)

(See also Marble Importers)

BATTERSON & EISELE, Main Office
& Works, Edgewater, N. J., & Times bldg.
42d st, New York. (See adv. index, end of
book)

BOCKMANN, A. E., 1265-9, B'way,
New York. (See adv. index, end of book)
Bradbury Marble Co. (Georgia, etc.), 1229 S 2d,
St. Louis, Mo.

Carthage Marble & White Lime Co. (Georgia &
Tennessee), Emilie bldg. St. Louis, Mo.
Evans Marble Co., York & William, Baltimore,
Md.

Fenn, C. E. & Co., 164 Dearborn, Chicago, Ill.
Freedley, J. K. & Sons, 210 S 24th, Phila., Pa.
Jackson, C. D., 105th & E. R., New York
Piscani Bros., Astoria (Borough of Queens, New
York)

Roussel, Chas. J., 524 W 50th, New York
Southern Marble Co., 8½ N Forsythe, Atlanta,
Ga.
Taber & Co., 24 Corlears, N. Y.

Temple Bros., Rutland, Vt.
Vermont Marble Co., Main Office, Proctor, Vt.
White, Geo. W. & Co., 1133 B'way, New York
Williamson, Frank & Co., 2202 Chestnut, Phila.,
Pa.

Marble Workers' Tools

(See Tools, Granite & Stone Cutters')

Marbles (Playing)

Johnston & Sharp Mfg. Co. (Hollow Steel), Ot-
tumwa, Ia.
Standard Toy Marble Co. (Toy Marbles), Akron,
O.

Marine Clocks

(See Clocks, Marine)

Marine Engines

(See Engines, Marine)

Marine Hardware

(See Hardware Mfrs, Marine)

Marine Railway Builders

Crandall, H. I. & Son Co. (For Dry Docks), 100
Border, E. B., Boston, Mass.
Devney, H. J. & J. P., Ashtabula, O.
Laird & Sons, Ashtabula, O.
Morgan Iron Works, New London, Conn.
Murray, Jas. & Son, 102 E York, Baltimore, Md.
National Water Tube Boiler Co., New Bruns-
wick, N. J.

Marine Railways

(See Dry Docks & Marine Railways)

Markers (Center)

Wiedeke, Gustav & Co. (Boilermakers'), Day-
ton, O.

Markers (Clap-Board)

Goodell-Pratt Co. ("Shepardson"), Greenfield,
Smith, Otis A., Rockfall, Conn. Mass.

Marquees

AMOS, CHARLES & CO., 94 W
Larned, Detroit, Mich. (See adv. index,
end of book)

BETHLEHEM FOUNDRY & MACHINE
Co., Front, South Bethlehem, Pa., & 149
B'way, New York. (See adv. index, end of
book)

Glen Mfg. Co., Ellwood City, Pa., 181 B'way,
New York
HALSTED, JOS. CO., 388 W Ran-
dolph, Chicago, Ill. (See adv. index, end of
book)

Hecla Iron Works, 118 N 11th, Brooklyn, N. Y.
HENRY-BONNARD BRONZE CO.
(Bronze), Mt. Vernon, N. Y. Sales Office:
5 & 7 E 42d, New York. Works: Mt. Ver-
non, N. Y. (See adv. index, end of book)

JACKSON, WM. H. COMPANY (Iron
& Bronze), 29 E 17th (Union sq), New York.
(See adv. index, end of book)

KAMMAN, WALTER, Front & Law-
rence, Cincinnati, O. (See adv. index, end
of book)

Midland Metal Co., 1427 Catherine, Phila., Pa.
Phoenix Steel Co. (Inc.), (Bronze or Iron), Put-
num & P. R. R., Pittsburg, Pa.

PITT, WM. R. COMPOSITE IRON
Works (Iron & Glass), 136-138 W 24th, New
York. (See adv. index, end of book)

REMPPIE, WM. F. CO., Reading, Pa.
& 1506 Sansom, Phila., Pa. (See adv. index,
end of book)

Richey, Browne & Donald, Maspeth (Boro of
Queens), N. Y. City

Schreiber, L. & Sons Co., 8th & Eggleston av,
Cincinnati, O., & 1133 B'way, New York

TAYLOR & DEAN, 205 Market,
Pittsburg, Pa. (See adv. index, end of book)

TYLER, W. S. CO., Cleveland, O., &
11 B'way, New York. (See adv. index, end
of book)

UNION FOUNDRY WORKS, 1st Nat'l
Bank bldg, Chicago, Ill. (See adv. index,
end of book)

VULCAN CO., Detroit, Mich. (See adv.
index, end of book)

WINSLOW BROS. COMPANY, Main
Office & Works, 2515 W Harrison, Chicago,
Ill., & 160 5th av, New York. (See adv. in-
dex & branch offices, end of book)

Mashers (Potato)

Brown & Dowd Mfg. Co. ("Rapid" Masher &
Beater), Meriden Conn.
Goodell Co., Antrim, N. H.

Masons' Leads

(See Plumb Bob Mfrs.)

Masons' Lines

Hoffman-Corr Mfg. Co., 55 White, New York
Ossawan Mills Co., Norwich, Conn.

SAMSON CORDAGE WORKS, 88
Broad, Boston, Mass. (See adv. index, end
of book)

SILVER LAKE CO., 78 Chauncey,
Boston, Mass. (See adv. index, end of book)

Masons & Builders

(See Builders, Contracting; also Contractors,
General; also Plasterers, Ornamental.)

**When writing to firms whose
names appear in this book
please mention:**

**HENDRICKS'
COMMERCIAL REGISTER.**

A. E. BOCKMANN

1265-1269 BROADWAY, NEW YORK

IMPORTER AND WHOLESALE DEALER IN

ITALIAN WHITE MARBLES
Different Grades

GREEK MARBLES
Skyros, Penteli, Tinos, Cippolino
and Argos

NORWEGIAN MARBLES
Fo White, Breche Rose, Antique
Fonce, Citron and Breche Vert

BRECHE BENOU
Yellow, Violet and Green

LILAS, NOIR ANTIQUE,

GRAF GREEN

PORTA SANTA, IMPERIAL,
NEGALLA, ALMA, Etc.

FOREIGN AND DOMESTIC MARBLES

ONYX, ALABASTER, SERPENTINE,
ISTRIAN STONE, PORPHYRY, SYENITE,
GRANITE, LABRADORITE AND FRENCH LIMESTONE.

Telephone 5858 Madison Square

S. CASCIO

FOREIGN AND DOMESTIC MARBLE

MARBLE INTERIOR WORK
COUNTER WORK
PLUMBERS' WORK
OF ALL DESCRIPTION
ESTIMATES FURNISHED
ON APPLICATION



TABLE TOPS
TILING, ETC.
TILE, MOSAIC, CERAMIC
FLOOR
TERAZZO FLOORING

797 to 803 LEXINGTON AVENUE

BROOKLYN, N. Y.

HENRY BERAU, Jr., Manager

TELEPHONE, 2337 BUSHWICK

WEST REDDING—New England Lime Co.
WILLIMANTIC—Boss, Chas. L.
Hillhouse & Taylor, 47 Milk
Nason, G. K., 87 Church
WINDSOR LOCKS—Bidwell, F. S. & Co.
WINSTED—Balch & Platt
Broson Bros.
Burwell, J. C.

DELAWARE

DOVER—Pennewell, C. S.
GEORGETOWN—Thoroughgood, Wm. J.
LAUREL—United Store Co., Central & 4th
MIDDLETOWN—Hukill, G. E.
NEWARK—Wright H. B. Co.
NEW CASTLE—Eliason, J. T. & L. E.
NEWPORT—Justis, Justa G.
WILMINGTON—Brown, H. A., ft. of West
Hamilton, Jno.
Hamilton, S. E., 10th & Union
McCall, Fred C., 12 W 8th
Pyle, Victor R.
Warner, Chas. Co. (Wholesale)

DISTRICT OF COLUMBIA.

WASHINGTON—Barber & Ross, 614 11th, N W
Barker, Geo. M., 649 New York av, N W
Builders' Supply Co., Home Life bldg
Clark, T. E., 1305 N. J. av
Corning, Jno. H., 520 13th, N W
Cranford Paving Co., Home Life bldg
Grove Lime & Coal Co., N. Y. av & 1st, N E
Hartig, Gustav, 509 H, N E
Hartig, Louis, 1001 7th, N W
McGill, Jas. H., McGill bldg
National Mortar Co., 612 F, N W
Rosslyn Supply Co., Colorado bldg
Walker's, J. T. Sons, 204 10th, N W
Water, J. G. & Sons, 1045 Wisconsin av,
Wyne, J. R. & Co., 209 12th, N W N W

FLORIDA.

DAYTONA—Maley, R. S.
FERNANDINA—Hoyt, Fred. W. Co.
Weeks, Chas. R. & Bro.
GAINESVILLE—Baird Hdw. Co.
JACKSONVILLE—Baker & Holmes Co.
Richardson, H. H. & Co. (Front Brick, Ce-
ment, Lime, Wall Plaster, etc.)
Southern Fuel & Supply Co.
Tysen, Chas. R.
KEY WEST—Curry's, Wm. Sons, 611 Front
Johnson, J. W., 218 Simonton
OCALA—McIver & MacKay (Dealers)
ORLANDO—Bumby, Jos.
PALATKA—Kenerly Hdw. Co.
Merryday Grocery Co.
Vertrees & Co.
PENSACOLA—Berry, W. I.
Cary, R. M.
ST. AUGUSTINE—Canfield, H. & Sons
Hamblen, C. F.
SANFORD—Fernald, Geo. H. Hardware Co.
Hill, A. E.
TAMPA—Knight & Wall Co.
Phillips, I. W. Co.

GEORGIA.

ALBANY—Cruger & Pace
Weston & Co.
AMERICUS—Hamil, A. J., 515 Cotton av
ATHENS—Athens Hardware Co.
Bailey Supply Co.
ATLANTA—Carolina Portland Cement Co.
Davis, W. P., 534 S Pryor
Dunning & Son, 54 Lime row
Kriegshaber, V. H., 6 N Forsyth
Randall Bros., Peters bldg
Sciple Sons, 33 N Broad
Smith & Simpson Lumber Co., 391 Peters
AUGUSTA—Burum Bros. & Co.
Deveney-Hood & Co.
Dunbar, B.S.
Merry Bros.
Rutherford, W. J. & Co.
Tarver, J. E.
BRUNSWICK—Anderson, W. C.
Coney & Parker
CARTERSVILLE—Ladd Lime Works
CEDARTOWN—Hall & Barr
COLUMBUS—Beach, Wm. Hardware Co., 1120
Broad
Dudley-Butts Sash, Door & Lbr. Co.
Elledge & Norman Marble Co.
Gruzard Supply Co., 1318 1st av
Harvey, W. T. & Co., 1500 6th av
Howard & Holt
Shepherd Bros.
Wood, T. W. Co., 902 9th av

CORDELE—Cordele Sash, Door & Lumber Co.
Hutchinson Lumber & Supply Co.
DALTON—Cherokee Mfg. Co.
Farrar Lbr. Co.
GAINESVILLE—Gainesville Iron Works
HOGANSVILLE—Trimble Brick Co.
MACON—Burke, T. C., 358 3d
Elder, W. F.
Massee & Felton Lbr. Co.
Wilder's, R. C. Sons Co., 614 3d
Willingham Sash & Door Co., 457 3d
MARIETTA—Henderson, C. E.
MILLEDGEVILLE—McMillan, J. W.
Walker, W. A.
ROME—O'Neill Mfg. Co.
SAVANNAH—Adams Paint Co.
Butler, J. G. Builders' Supply Co.
Gallagher-Wilkinson Co.
General Building Supply Co.
Hanley, Andrew Co.
Lovell's, Edw. Sons
Neal-Blum Co.
Savannah Building Supply Co.
Savannah Stone & Plaster Co.
THOMASVILLE—Dillon, J. W.
Evans & Son

IDAHO.

BOISE—Fletcher-Eastman-Teller Co.
Ridenbaugh, W. H., 9th & Front
Shaw Lumber Co.
IDAHO FALLS—Dill, J. W.
LEWISTON—Fertterling, J. A.

ILLINOIS.

ALTON—Alton Builders' Supply Co.
Alton Lime & Cement Co.
Miller, Joseph.
ASHTON—Leslie, R. & Son (Est. of)
AURORA—Hanna & Todd
BARRINGTON—Lageschulte, Henry J. & Co.
Lamey & Co.
BATAVIA—Barker, Wm. P.
Eager, Jas.
Hunter-Griffith Co.
BEAVERVILLE—Lambert, H. & Son
BELLEVILLE—Daab, Fred Co.
Reeb Bros.
Schaefer, Chris.
BELVIDERE—Wright, O. H. & Co.
BEMENT—Wilkinson, A. L. & Co.
BLOOMINGTON—Darlington, E. R. Lumber Co.
Evans, John W. Sons Co.
Harwood, W. S. & Bro.
Parker Bros.
White, Sam'l R. Mfg. Co.
CAIRO—Halliday, H. H. Sand & Gravel Co.
Halliday, W. P. (Estate of)
Lancaster & Rice Lumber & Mfg. Co., Com-
mercial av
Langan, P. T.
CARLINVILLE—Woodward, S. S. Hardware Co.
CARMi—Willis, G. A.
CARROLLTON—Widdowson, J. M.
CARTHAGE—Helfrich, N. J. & Co.
Lyon, W. E. & Co.
CATLIN—Jones, A. & Sons
CHAMPAIGN—Alexander Lumber Co.
CHANDLERVILLE—Goodell, J. H. & Son
CHARLESTON—Fuller Bros.
CHATSWORTH—Walter, Geo. J.
CHENOA—Dexter & Schmitt
CHICAGO—Alpha Portland Cement Co., 204
Dearborn
Artesian Stone & Lime Works Co., Grand
& Campbell avs

ATLAS PORTLAND CEMENT CO.,

First National Bank bldg
Atwood, Burton H., 135 Adams
Banner Cement Co., Masonic Temple
Bos, John N. (Sand), 473 Chrystal
Brennan & Leichter, 3351 State
Builders' Material Co., Chamber of Com-
merce bldg
Chicago Builders' Specialties Co., Chamber
of Commerce bldg
Chicago Fire Brick Co., Chamber of Com-
merce bldg
Chicago Lime Co., Chamber of Commerce
bldg
Chicago Union Lime Works Co., W 19th c
S Lincoln
Clow, Jas. B. & Sons (Cements, etc.),
Franklin cor. Harrison
Dee, Wm. E. Co., 4047 Caln av
Dickinson, John W., 171 La Salle
Dolase & Shepard Co., 184 La Salle
De Smet, Geo. W., Chamber of Commerce
bldg
Druecker, N. J. & Co., 847 Clybourn av
Garden City Sand Co., Security bldg
Illinois Leather Co., 400 N Halsted
Jenkins & Reynolds Co., Chamber of Com-
merce bldg
Knickerbocker Ice Co., 171 La Salle

Lake Shore Sand Co., Chamber of Commerce
bldg
Larson, Andrew P., 11322 Indiana av
Lesterhouse, Peter C., 117 W 109th
Longwell, Geo. P., 79 Dearborn
Marblehead Lime Co., Masonic Temple
Meacham & Wright Co. (Cement), Cham-
ber of Commerce bldg
Mississippi Valley Portland Cement Co., 119
Monroe

Moninger, John C., 117 Blackhawk
Monolith Mfg. Co., 84 Van Buren
Moulding, Thos. Co., Chamber of Commerce
Myers, Benj. R., 142 N Wood bldg
Richardson Sand Co., 138 Washington
Sexton Building Material Co., Chamber of
Commerce Bldg

Schultz, Fred., 658 S Halstead
Silixoid Portland Cement Co., 39th &
Snyder, Wm. J., 960 N 43d av Lowe av
Staley, M. A., Chamber of Commerce bldg
Stearns Lime & Stone Co., 165 E Rand
Templeton Lime Co., Harvard and Rockwell
Tobin, T. M. Bros. Co., 9326 S Chicago av
Travers, Robert A., 1705 Kenmore av
Treadway, H. F., 108 La Salle
Union Building Material Co., Chamber of
Commerce bldg
United States Silica Co., American Trust
bldg
Viall, O. A. & Co., W 120th & Emerald av
Waukesha Lime & Stone Co., 965 N Cen-
tral Park av
Williams, N. A. Co. (Sewer Pipe, etc.),
Chamber of Commerce bldg
Winslow, E. J. Co., 138 Jackson boul
Wisconsin Lime & Cement Co., Chamber of
Commerce bldg
Woodley, James C. & Co., 456 S Clark st

CLINTON—Kent, E. & Co.
COLCHESTER—King, Moses
COLLINSVILLE—Steinmeyer, H. & Bro.
DALLAS CITY—Black & Loomis Co.
DANVILLE—Danville Foundry & Machine Co.
Ganor, M. & Son
DECATUR—Parke, V. H. & Son Co.
DE KALB—Schermmerhorn, L. C. & Co.
DU QUOIN—Kimmel, D. L.
EAST ST. LOUIS—Flannery, P. & Son, Ter-
minal Belt
Hill, W. H. Lime & Cement Co., 6th and
Walnut

EDWARDSVILLE—Hotz Lumber Co.
EFFINGHAM—Wilde-Leddy Lumber Co.
ELGIN—Bosworth, F. S. & Son
Gelster, C. H.
McBride Bros.
EL PASO—McKinney & Co.
EVANSTON—Connor, J. C. Co.
Noyes, B. B. Coal Co.
Wigginton, James
FAIRFIELD—Fairfield Lumber Co.
FLANAGAN—Litchfield Bros.
FORREST—Opie, W. H.
FREEPORT—Brubaker, B. F.
Grant, Mrs. Jennie
Grant, Thos.
FULTON—Snyder, J. C.
GALENA—Gray, C. B.
GALESBURG—Hinchliff, J. E.
Houghton, W. O.
Simpson, J. C. & Co.
Terry & Lewis
GALVA—Houghton, E. W. Lumber Co.
GENESEO—Goss, John W. & Co.
Turner Lumber Co.
GENOA—Merritt & Hadsall
GIBSON CITY—Smith, A. J.
GRANITE CITY—Granite City Lime & Cement
Co.
GRAYSLAKE—Wilbur, F. C. Lumber Co.
GREENFIELD—Entekin, J. H.
GREENVIEW—Tripp Bros.
HAMPSHIRE—Kirchoff Bros.
HARVARD—Hall, W. D.
Lake, Harris & Backus
HARVEY—Harvey Coal Co.
HIGHLAND PARK—Middleton, John
HINCKLEY—Pogue Bros. Lumber Co.
HOOPESTON—Illinois Lumber, Grain & Coal
Co.
HUME—Lyons, Oliver
HUTSONVILLE—Hutsonville Brick & Tile Co.
JACKSONVILLE—Andrews, B. P. & Sons
JERSEYVILLE—Christy, John (Lime)
Cockrell, E. Lumber Co.
JOLIET—Buck, Werden
Hays, A. W.
Leach, Hy. & Son
Truby, M. & Son
KANKAKEE—Kankakee Tile & Brick Co.
Lafond, T. & Son
Ruehle, Christian
KEWANEE—Porter & Trask
KEYESPORT—Langham, Wm.
LA GRANGE—Joyce, Geo. A.
Vial, Joseph

LA SALLE—Castendyck Bros.
Hunter, Stevens & Co.
LEMONTE—Derby, S. L. Lumber Co.
LEONORE—Cook, F. H.
LINCOLN—Spellman & Spitley
LOAMI—Baker, George W.
MCLEAN—Darnell & Spence
Dodgson, L. P. & Son
MALTA—Haish, Wm. H.
MATTOON—Andrews Bros.
MENDON—Nutt, W. T. & Son
METROPOLIS—Gibbons, A. J.
MILFORD—Jones Bros.
MINONK—Kipp, A. B.
MOLINE—Moline Sand Co.
Tropp-Darling Co.
Wood, Beder
MONMOUTH—McCullough Lumber & Coal Co.
MONTICELLO—Lodge, W. F.
Maier, John
MORGAN PARK—Derby, S. O.
MORRIS—Ross Lumber Co.
MORRISON—Potter, M. H.
MOUNT CARROLL—Rhodes Bros. & Co.
MOUNT MORRIS—Wingert & Clevidence
NAPERVILLE—Schwartz, M. & Co.
NEWMAN—Thomas, R.
NORMAL—Stillhamer, H. W. & Co.
NORTH CHICAGO—Arnold, S. E.
OAK PARK—Bryant Bros.
OTTAWA—Hamilton & Vincent
Sauders Bros. Mfg. Co.
PARIS—McCord & Risser
Propst Lumber Co.
PEKIN—Conklin, Reuling Co.
Lampit & Co.
Zimmer, E. & Co.
PEORIA—Mackemer Lumber Co.
Miller, Jos. & Sons
Peoria Fuel Co.
Wasson, T. J.
PERU—Zimmerman, Christian & Co.
PETERSBURG—Anderson & Gum
Salveson & Dawson
PONTIAC—Smith, F. N.
PORT BYRON—Port Byron Lime Ass'n
PRINCETON—Oberschelp, H. G.
QUINCY—Menke, F. W. Stone & Lime Co.
Meyer, W. D.
Middendorf Bros.
Quincy White Lime & Cement Co., 417
Hampshire
Williamson, H. A., 121 Hampshire
RANKIN—Patten, H. & Bro.
ROCK FALLS—Smith & Grater
ROCKFORD—Hart & Page, 110 N Court
McDermald, John
McFarland-Colton Co.
Safford, G. N. & Co.
Skandia Coal & Lumber Co., 708 7th
ROCK ISLAND—Empire Coal & Coke Co.
Frazer, Edwin G.
Port Byron Lime Ass'n
Rock Island Sand & Gravel Co.
Tropp Darling Co. (Sand)
SAVANNA—Rhodes, W. P.
SPRINGFIELD—Baker & Baker
Eielson, Aolag
Irwin, H. C.
Schuck, J. H. & Son
Vredenburgh, Peter Lumber Co.
STANFORD—Jones, C. S. Lumber Co.
STERLING—Dillon, Moses Co.
STRAWN—Tryon, O. H. & Son
STREATOR—Ames, J. C. Lumber Co.
Schmid, George A.
Streator Lumber Co.
SYCAMORE—Holcomb Bros.
North Side Lumber Co.
URBANA—Huff, S. E. & Co.
UTICA—Utica Cement Mfg. Co.
Utica Hydraulic Cement Co.
WADY PETRA—Chase, Heber & Co.
WARREN—Taylor, C. F.
WATERMAN—Pogue Bros. Lumber Co.
WAUKEGAN—Bairstow, F.
WEST SALEM—Miller Bros.
WHEATON—Sutcliffe, John
Wheaton, F. E. & Son
WHITE HALL—White Hall Sewer Pipe &
Stoneware Co.
WOODLAND—Anderson, J. W.

INDIANA.

ALEXANDRIA—Braunum Lumber Co.
ANDERSON—Bailey, J. W. & Co.
Vernon, E. G. & Son, N Main
ANGOLA—Gilbert, T. R.
Shank, Daniel
ATTICA—Martin, H. C. & Co.
BLOOMINGTON—Hughes Bros.
BOONVILLE—Madden, J. E.
White, C. P. Lumber Co.
BRAZIL—Halstead, J. N.
McCrea & Brown Co.

BREMEN—Steinbeck, J. H.
BROOKVILLE—Fries, A. & Sons
Masters, J. H.
CARLISLE—Risinger & Ellis
CICERO—Cicero Lumber Co.
CLAY CITY—Guhl, B. M.
COLUMBUS—Dunlap & Co.
Hege & Co.
CONNEERSVILLE—Emes, E. A. & Co.
Williams Bros.
CORYDON—Bulleit, J. J. Son
COVINGTON—Ciark, M. H.
Townsey, J. L.
CRAWFORDSVILLE—Binford, J. & Son
EAST CHICAGO—Flack Bros.
EATON—Eaton Stone Quarry & Oil Co.
ELKHART—Bingham, A. W. & Co.
Godfrey, H. W.
Sanders, Jacob P.
ELWOOD—Winters Lumber Co.
EVANSVILLE—Baird, L. M., 220 U Water
Eichel Lime & Stone Co.
Eigenmann, Louis P., 200 L Water
Folz, Jacob, Jr., 1132 W Franklin
Klenck Bros., 621 Fulton av
Lensing, H. A., 420 Sycamore
Rechlin, Theo. E., 27 L 7th
Sonntag, G. W., 228 2d av
FAIRMOUNT—Mercer, Brannum & Bevington
Swain, J. L. Co.
FORT WAYNE—Gilmartin, Edw., c Holmes & Clinton
Moellerings, Wm. Sons, 55 Murray
GREENFIELD—Conklin, A. P.
GREENSBURG—Pulse & Porter
HAGERSTOWN—Knapp, C. T.
HAMMOND—Hammond Coal Co.
Hammond Lumber Co.
Laws, John & Son
HUNTINGTON—Allman, Edw. O.
Bash, C. E. & Co.
Beard & Winebrenner
Keefer & Bailey
INDIANAPOLIS—Aldag & Coonse Co., E Wash'n
& Belt
Bailey & Krauss Co., 427 W Market
Builders' Supply Co., 342 E Wash'n av
Consolidated Coal & Lime Co., 13 Virginia
Dalton Lumber Co., 30 S Noble
Deil, Frank M., 730 E Wash'n
Gill & Greenen, 2220 E Wash'n
Indianapolis Mortar & Fuel Co., 13 Virginia
Keepert, A. B. & Co., 314 W North
Keller, Julius Construction Co., 127 Fulton
Malott Coal & Lime Co., 935 Peru
Meyer, A. B. & Co., 17 N Penn
Morgan & Jackson Co., 350 W 13th
Pierson Building Material Co., 1011 E Vermont
Wales Coal & Lime Co., 911 Mass av
KENDALLVILLE—Debele, John
KNIGHTSTOWN—Watts, Harry & Co.
KNOX—Long, John W.
KOKOMO—Albargh, A. & Son
Armstrong, Landon Co. (Cements)
LAFAYETTE—Lyman, Harry B.
LAPORTE—Moore & Richter
Wilson, W. Lumber Co.
LOGANSPOUT—Dille, C. L. & Co.
Lux, Harry
MADISON—Miller, W. H.
Ross & Kimmell
MARION—Overman & Baldwin
Southall & Co.
MICHIGAN CITY—Michigan City Lumber &
Coal Co.
MUNCIE—Hamilton, George B.
Muncie Builders' Supply Co.
NEW ALBANY—Slider, Edw. T.
NORTH VERNON—N. V. Pump & Lumber Co.
Tripp Bros.
PETERSBURG—Drof, Peter
PLYMOUTH—Linkenhelt, Lawrence
RENSSELAER—Day, Hiram
RICHMOND—Farnham, Charles S.
Hackman, Klehforth & Co., 112 S 7th
Mather Bros. Co.
ROCKVILLE—Dooley & Dooley
Joiner, J. A.
Ott, D. B.
SEYMOUR—Mills, Mrs. A. W.
SHELBYVILLE—Parrish, J. O.
SHERIDAN—Palmer, G. H.
SOUTH BEND—Defrees, C. H.
Hoban & Roach
Indiana Stone, Lime & Cement Co.
TERRE HAUTE—Austin Hardware Co.
Reiman & Steeg Co., 903 Wabash av
Terre Haute Coal & Lime Co.
UNION CITY—Fisher, S. J.
Knapp Supply Co.
Short, John
VINCENNES—Bosworth, M. A.
McIlvaine, H. R.
WABASH—Smith-Hubbard Lumber Co.
WATSON—Speed, J. B. & Co.

IOWA.

ACKLEY—Frudden Lumber Co.
BURLINGTON—Bernard Bros. & Mercer
Phillips Lime & Coal Co.
Rand Lumber Co.
CARROLL—Joyce, W. T. Co.
CEDAR RAPIDS—Connor, A. H.
Iowa Stone Co.
King's Crown Plaster Co.
CHARITON—Stewart, G. J. & Co.
CHELSEA—Hrabak, Joseph
CHEROKEE—Weart & Lysaght
CLARINDA—Richardson, G. W.
CLINTON—Shoecraft, S. & Son Co., 1st & 5th
Smith & Oakes, 1st & 6th av
COLUMBUS JUNCTION—Reaney & Ellason
CORNING—Newcomb, W. & Co.
CORYDON—Niday, C. A. & Co.
COUNCIL BLUFFS—Besley Brick Co.
Bluffs City Lumber Co.
Hafer, C.
Hoagland, Geo. A.
Quinn, H. A. Lumber Co.
CRESCO—Rathert, William F.
CRESTON—Green Bay Lumber Co.
Tramp Bros.
DAVENPORT—Abel Lime & Cement Co., 1801
Rockingham road
Builders' Lime & Cement Co.
McCosh & Co., 1010 Harrison
DECORAH—Adams, N. H. & Son
Wilbur Lumber Co.
DEEP RIVER—Pheips, Axtell & Co.
DES MOINES—Capital City Brick & Pipe Co.,
Equitable bldg
Des Moines Fuel & Lime Co., 511 Mulberry
Des Moines Hard Mortar Co., 406 E Walnut
Dietz & Leveke
Ewing & Jewett, 9th & Locust
Gilchrist, J. K. & W. H., 301 E Locust
Maine, Jas. & Sons Co.
DUBUQUE—Linehan & Molo
Mettel Bros.
FAIRFIELD—Cable, G. W., Jr.
FORT DODGE—Fort Dodge Brick & Tile Co.
FORT MADISON—Atlee, S. & J. C.
GLENNWOOD—Ridgeway Lumber Co.
HAMPTON—Moore Bros.
IOWA CITY—Leinbaugh, W. F.
IOWA FALLS—Miller & Foote
KEOKUK—Baldwin & McDevitt
Cameron, Jas. & Sons
Carter, S. C. & S. Co.
McNamara's, J. Sons
Mississippi Coal & Ice Co.
KEOTA—Wright, S. S. & Son
KNIERIM—Anderson, F. R. & Co.
LE MARS—Knorr & Schaefer
Moore, M. A. & Co.
Perry, W. H.
LYONS—Foley, T. J.
Joyce Lumber Co.
MAQUOKETA—Hurst, A. & Co.
MARSHALLTOWN—Anson Co.
MASON CITY—Cole, C. A.
Mason City Brick & Tile Co.
Mason City Clay Works
Mason City Lime & Cement Co.
MONTEZUMA—Moler & Clark
MOUNT PLEASANT—Bowman & Kaufman
MUSCATINE—Goldsberry, Wm. D.
Wallace, R. T. & Son
NEW HAMPTON—Bigelow & Donivan
OSKALOOSA—Gilchrist, M. D. & Co.
Porter, C. M. Lumber Co.
OTTUMWA—Ostdiek, H. B.
Tisdale, F. A. & Co.
Withall, Geo.
SERGEANT BLUFFS—Holman, C. J. & Bro.
SIGOURNAY—Neas, A. M.
SIOUX CITY—Corn Palace Electric Construction
Houx, Frank T. Co. Co., 508 Wate
McNeil, H. C. & Son
Queal, J. H. & Co., Steuben c 3d
Webb Bros. Co., Pierson c 3d
SPENCER—Floete Lumber Co.
Perine, A. C.
STEAMBOAT ROCK—Greef Lbr. Co.
TAMA—Hill, B. F.
TRAEER—Baker-Warfield Lumber Co.
WALL LAKE—Peck, W. H. & Co.
WATERLOO—Black Hawk Lbr. Co.
Bryant, W. A. & Sons Co.
Chapman, C. W. Lbr. Co.
Fuoss, J. H.
Waterloo Lbr. Co.
Whitenack, W. W. & Co.
Young, J. B.
WEBSTER CITY—Young, J. W. & Son
WEST BURLINGTON—Schmiers, J. C.
WEST UNION—Graham & Schenck
Hoyt & Lawyer

KANSAS.

ATCHISON—Blish-Mize & Silliman Hdw. Co.
Carlisle-Pennel Lumber Co.
Lewis, W. H.
AURORA—Chicago Lumber & Coal Co.
BELOIT—Chicago Lumber & Coal Co.
BLUE RAPIDS—Electric Plaster Co.
CHETOPA—Shields, J. F.
CONCORDIA—Chicago Lumber & Coal Co.
ELLINWOOD—Chatten, S. H.
ELLSWORTH—Lake Superior Lumber Co.
EMPORIA—Emporia Lumber & Coal Co.
Evans, J. E.
Kirkwood, J. G.
Watson-Ballweg Lbr. Co.
FORT SCOTT—Brown Lumber Co.
Fort Scott Hydraulic Cement Co.
Kansas & Fort Scott Cement Co.
FULTON—Fulton Lumber Co.
GALVA—Carey-Lombard Lumber Co.
GARFIELD—Waymire, N. O.
GLASCO—Chicago Lumber & Coal Co.
GODDARD—Pond, W. M. & Co.
HANOVER—Thiele, E. W. & Bro.
HAYS—Schwaller, C. & Son
HOLTON—Brown & Hedge
HUMBOLDT—Osborn, J. H. & Son
HUTCHINSON—Hutchinson Lbr. & Planing
Kansas Lumber Co. Mill Co.
White, L. J. Lbr. Co.
IOLA—Chicago Lumber & Coal Co.
Cooper, S. M. Lumber Co.
Klein, Paul
Northrup Lbr. Co.
Schwartz, E. J.
JUNCTION CITY—Brown, Geo. T.
Geary County Lumber Co.
Moses, Geo. C.
KANSAS CITY—Armourdale Lumber Co.
Frankenfield Sand & Fuel Co., Central av
James, A. R. & Son, 1017 N. 4th
Wyandotte Coal & Lime Co., 553 Minn. av
LAWRENCE—Achning, Chas.
American Cement Plaster Co.
Lawrence Vitrified Brick & Tile Co.
LEAVENWORTH—Crancer, J. W. & Co.
McDonald, P. J., 3d and Cherokee
LINCOLN—Chicago Lumber & Coal Co.
LYONS—Long & Taylor
McPHERSON—Lake Superior Lumber Co.
Sudendorf, H. H.
MANHATTAN—Higinbotham, Scott N.
MARION—Newton Lumber Co.
NESS CITY—Daniel, F. W.
NEWTON—Newton Lumber Co.
Swartz, S. M. Lumber Co.
NORTH TOPEKA—Gabriel, D. T. & Co.
Thomas, J. & Son
OBERLIN—Chicago Lumber & Coal Co.
Foster Lumber Co.
OTTAWA—Hallen, J., 402 S Main
Harris, M. R., 114 W 4th
Rohrhaugh & Co.
Winget, W. F. & Co.
PAOLA—Fowler, E. T. & Co.
PARSONS—Clark & Bates Lumber Co.
McCreary & McClung
White, P. S.
PEABODY—Davison & Co.
PHILLIPSBURG—Central Lumber Co.
Smith, Theo. & Son
PITTSBURG—Pittsburg Lime & Cement Co.
Union Lime & Cement Co.
SALINA—Eberhardt Lumber Co.
Leidigh & Havens Lumber Co.
Sudendorf, H. H.
STERLING—Fair, D. J.
STOCKTON—Chicago Lumber & Coal Co.
TOPEKA—Culver & Bailey
Forbes Bros.
Thomas, J. Lumber Co.
Thomas, Jonathan & Son
VALLEY FALLS—Legler, Mell & Son
WALTON—Moorhead, Jas.
WICHITA—Jackson-Walker Coal & Material Co.
Stocker, O. B., 143 N Water
Turner, J. H.

KENTUCKY.

ASHLAND—Beckette, O. F. L. & Co.
Gates Brick Co.
Strack, E. W.
Van Sant, Kitchen & Co.
BOWLING GREEN—Allen, Chas. S.
Phillips, Aaron
COVINGTON—Covington Coal Co.
Gillam, Wm. F.
Kenton Supply Co.
Spinks, T. W.
DAYTON—Hunter, M. R., Sr.
Walter, Anton, Jr.

FIREBRICK—Portsmouth-Harison Walker Co.
FRANKFORT—Congleton, T. J. & Bro.
Williams, E. M.
FULTON—Bransford & Bransford
GLASGOW—Dickinson Bros.
HENDERSON—Blackwell, P. A. & Co.
HODGENSVILLE—Read Mercantile Co.
HOPKINSVILLE—Dalton Bros.
Dalton, H. M. Stone Co.
Forbes Mfg. Co.
LEBANON—Johnston, C. B.
LEXINGTON—Des Cognets, Louis & Co.
Justice, F. T. & Co.
Sweeney & McClellan
LONDON—London Mfg. Co.
LOUISVILLE—Bannon, P. Sewer Pipe Co., 508
W Jefferson
Kentucky Wall Plaster Co., Fulton nr 1st
Louisville Cement Co. (Cement Mfrs.), 331 W
Main
Ohio Valley Cement Co. (Cement Mfrs.), 348
W Jeff.
Speed, J. B. & Co., 331 W Main
Tyler, Owen (Mfrs' Agt.), Tyler bldg
Union Cement & Lime Co. (Cement Mfrs),
Utica Lime Co., 421 W Main 421 W Main
Western Cement Co. (Cement Mfrs' Agts),
MADISONVILLE—Hall, W. L. 247 W. Main
Ruby Lumber Co.
MAYSVILLE—Dodson, O.
Matthews, W. B. & Co.
Russell, M. C. Co.
NEWPORT—Allen, M. M., 634 Monmouth
Danzenberg, Joseph
Spinks, Charles
OWENSBORO—Morgan Lumber Co.
PADUCAH—Chamblin & Murray
Katterjohn, F. W. & Sons
Langstaff-Orm Mfg. Co.
PARIS—Dow-Hayden Grocery Co.
SHELBYVILLE—Gruber, L. H. & Sons
Hall & Chowning
VERSAILES—Berryman, C. M.
Woolridge Bros.
WARSAW—McDanells, J. H. Sons Co.
White, Gill

LOUISIANA.

BUNKIE—Haas, W. D. & Co.
DONALDSONVILLE—Lemann, B. & Bro.
LAFAYETTE—Vordenbauman Lumber Co.
MONROE—Monroe Grocery Co.
Monroe Hardware Co.
Southern Grocery Co.
MORGAN CITY—Dalton, Jno.
Loeb, Leopold & Sons Co.
NEW IBERIA—Dreyfus, Jules
Erath Hardware Co.
NEW ORLEANS—Bayley, Fred'd H., Hennen
bldg
Builders' Supply Co., 2021 Magazine
Carolina Portland Cement Co., 2029 Calliope
Clarke, J. J. Co., 1111 Julia
Cleary, T. J., 800 S Carrollton av
Demouelle, Jas. & Sons, 602 N Basin
Dow, Lewis F., 419 Carondelet
Fabacher-Estalotte Demolishing Co., 416
Dryades
Ford, F. Codman, 304 Baronne
Garnier, Emile, 1601 N Robertson
Hiller, Alfred Co., 534 Magazine
Jahncke, Fritz, 814 Howard av
Judlin, Peter, 2311 N Rampart
Kearny, J. Watts & Sons, 423 Gravier
Kracke & Flanders, 630 Gravier
Lagarde Lime & Stone Co., Hennen bldg
Le Sassier, R. P., 401 Corondelet
Louisiana Lime Co., Hennen bldg
Prados & Roca, 1426 Hospital
River Sand & Gravel Co., 816 Howard
Roca, Joseph V., 604 N Robertson
Thompson, Edward Co., 530 Natchez
Tupper, Allen, 713 Union
Woodward, Wight & Co. (Ltd.), 406 Canal
Zimmerman's Building Specialties Co. (Ltd.),
2131 Magazine

SHREVEPORT—Allen Mfg. Co.
Ardis & Co.
Crawford, Jenkins & Booth
Henderson, W. K. Iron Works Supply Co.
Hicks Co. (Ltd.), 117 Texas
Hunter Bros., 606 Levee
Lee Hardware Co.
Taylor, W. F. Co.
Vordenhauman-Eastham Co.
THIBODAUX—Southern Investment Co.

MAINE.

AUBURN—Bearce, Geo. B. & Son
Dingley, Jno. & Co.
AUGUSTA—Angusta Lumber Co.
Pinkham & Philbrick
Purinton Bros. Co.

BANGOR—Cassidy, Jno. & Son
Dunning, R. B. & Co.
Hopkins, A. R. Co.
Lowell & Engel
Rice & Miller
BATH—Nichols-Read Co.
BELFAST—Cooper & Co.
BIDDEFORD—Andrews & Horrigan Co.
Banks, C. K.
BRUNSWICK—Hacker, C. E.
CALAIS—Eaton, H. B. & Co.
CAMDEN—Camden Lumber Co.
Carleton, Pascal Co.
EASTPORT—Dyer, C. H. & Son
FAIRFIELD—Totman, Arthur H.
FOXGROVE—Gilman, A. W. & Co.
GARDINER—Decker & Day Hdw. & Coal Co.
Harrington, G. H.
HALLOWELL—Wingate, Frank S.
HARRISON—Caswell, H. H.
Jordan Bros.
HOULTON—Madigan & Madigan
MERRITT, E. & SONS
LEWISTON—Hall & Knight Hardware Co.
Hayes, J. L. & Co., 282 Main
MECHANIC FALLS—Penney, J. W. & Sons Co.
PORTLAND—Chase, Charles S. Co., 5 Com'l
Cox & Ward Co., 169 Forest av Wharf
Libby, E. & Sons Co., 76 Pearl
Lord Bros. Co., I Central Wharf
Portland Pipe Co.
Portland Sand & Gravel Co.
Redlon, N. E. Co., 226 Federal
ROCKLAND—Farrand, Spear & Co.
Glover, W. H. Co.
Spear, F. R.
RUMFORD FALLS—McKeeman, J. H. Co.
SANFORD—Moulton Bros.
WATERVILLE—Flood, Geo. S. & Co.
Purinton, H. Co.

MARYLAND.

ABERDEEN—Wiles, Jas. A.
ANNAPOLIS—Martin, C. W. & Co.
Parlett & Parlett
BALTIMORE—Brady, Edwd. & Son, Covington
& Belt
Bullock, Jno. S. & Son, 213 McElderry's
Carson, Wm. T., Law Bldg Wharf
Clark, Henry, 1112 Winchester
Clarke, Wm. Wirt & Son, Monument & For-
rest
Cook, Henry E., 500 Block, E Monument
Elenbrook, Fredk., 2104 Fkd av
Filbert Paving & Construction Co., 1210
Ford, A. D. & Co., 59 Jenkins la Block
Gault, Wm. A. & Son, 9 E Lexington
Gegner, Geo. A., 43 Eastern av ext
Gore, M. F., 202 E 22d, N
Green, Robt. S., 853 Fkd. av ext
Hay, Geo. M., 14 N Greene
Hudson Cement & Supply Co., 4 E Lex.
Johnson, L. F., 406 N Howard
Lewis, Frank L., 910 W Pratt
Maryland Cement Co., Builders' Ex.
Maryland Lime & Cement Co., Carroll Bldg.
National Building Supply Co., 418 E Pratt
Sack, Geo. & Son, Lauraville
South Baltimore Building Supply Co., 1520
Light
Spengemann & Bro., 304 N Central av
Standard Lime & Stone Co., Equitable bldg
Sunnor & Gerlach, 1401 N Register
Thomas, Jos. & Son, 820 Leadenhall
Walbrook Coal & Supply Co., 2634 W North
Wallis, B. & Co., 210 E Lex. av
Warren, Lawrence J., 213 E Falls av
Washington Building Lime Co., Equitable
Zouck, P. G., 3d W c Liberty rd Bldg
BELAIR—Hanway, Barnes & McComas
BROOKLYN—Gels, Jno. H. & Co.
CHESAPEAKE CITY—Woolley & Bennett
CHESTERTOWN—Bacchus, J. D.
CUMBERLAND—Cumberland Hydraulic Cement
& Mfg. Co.
Cumberland & Potomac Cement Co.
EASTON—Dixon, Robert B. & Co.
ELLICOTT CITY—Talbot, E. A.
FREDERICK—Bowers, W. D. Lumber Co.
Markell & Ford
HAGERSTOWN—Cushwa, Victor & Sons
HANCOCK—Bridges, J. T. & Co.
HYATTSVILLE—Carr, C. F. & Bro.
Magruder, W. P.
LAPIDUM—Spencer & McGonigall
LAUREL—Shaffer, C. F.
Waters, Geo. W.
ST. MICHAELS—Dodson, E. N.
SALISBURY—Salisbury Lime & Coal Co.
TEXAS—Lee, Thos. N. Co.
UNION BRIDGE—Staubb, W. H.
WILLIAMSPORT—Cushwa, Victor & Sons

MASSACHUSETTS.

ADAMS—N. E. Lime Co.
 AMESBURY—Bean, H. H. & Son
 ANDOVER—Hardy & Cole
 ARLINGTON—Pierce & Winn Co.
 ATHOL—Fay, Henrie C.
 Paige, C. F. & Co.
 ATTLEBORO—Bowen, C. L.
 Carpenter Coal & Lumber Co.
 Tucker, A. H.
 BELMONT—Belmont Coal Co.
 BEVERLY—Pickett Coal Co.
 BOSTON—Alpha Portland Cement Co., Board
 of Trade bldg
 Berry & Ferguson, 159 Devonshire
 Bryant, Edw., 30 Kilby
 Carter, Thomas, 30 Kilby
 Coombs, Frank E., Old South bldg
 Curtis & Pope Lumber Co., 774 Albany
 Davis, Jas. A. & Co., 92 State
 Davis, John A., 60 Mt. Washington av
 Eastern Clay Goods Co., 79 Milk
FISKE & COMPANY (Inc.), 161
 Devonshire. (See adv. index, end of book)
 Ham & Carter Co., 560 Albany
 Hannon, F. J., 166 Devonshire
 Horton & Hemenway (Large), 683 Atlantic
 av
 Lash, A. F. Co., 25 D
 Lewis, D. W. Co., 24 Milk
 Mitchell, W. S., Railroad c Willow, W. R.
 Mullen, W. B., 95 Milk
 Nash, Willard G., 220 State
 New England Adamant Co., 325 Medford
 New England Pipe & Cement Co., 141 Milk
 Norcross, W. C. Co., 484 Albany
 Nute, A. T. & Co., 380 W 1st, S. B.
 O'Connell, J. P. & Co., 250 Freeport, Dor.
 Portland Stone Ware Co., 42 Oliver
 Robertson, James, 81 Atlantic av
 Rockland-Rockport Lime Co., 24 Milk
 Splers-Fish Brick Co., 79 Milk
 Stetson, Cutler & Co. (Lime), Mason Bldg
 United Building Material Co., 101 Milk
 Waldo Bros., 102 Milk
 Weston, W. M. Co., 120 Milk
 Windsor Cement Co., 161 Devonshire
 BRADFORD—Taylor, Goodwin Co.
 BRIDGEWATER—Keith, Sumner
 BROCKTON—Mitchell, Isam & Co.
 CAMBRIDGE—Clark Bros., 2464 Mass. av
 Eastern Clay Goods Co., E. C.
 Freedman, I. & Co., 1 Bridge
 Gale, Geo. W. Lumber Co., 640 Main
 Lewis, D. W. & Co., 694 Cambridge cp
PURCELL, HYCENT, 441 Main.
 (See adv. index, end of book)
 Wood, Wm. H. & Co., 13 B'way
 CAMBRIDGEPORT—(See Cambridge)
 CHELSEA—Phillips & Hodgdon
 Tukey, S. S. & Co.
 CHICOPEE—Rourke, Patrick, 18 West
 CLINTON—Frazer, C. & Son
 Fuller, Wm. A., 385 Main
 COTTAGE CITY—Barney, D. J.
 Rice, H. H.
 DANVERS—Dunnells, Lorenzo
 DEDHAM—Fisher-Churchill Co.
 EAST BRIDGEWATER—Dean, Joshua (Est.
 of)
 EAST LONG MEADOW—Whitaker, F. H.
 EAST WHITMAN—Cook, R. W.
 EVERETT—Green & Harrington
 Murphy, D. P., 389 B'way
 FAIL RIVER—Borden, Guiney & Kendall
 Borden & Remington
 Prosser, Wm. & Son, 943 Pleasant
 Staples Coal Co., 404 Davol
 Wilson, Jas. H., 2000 N. Main
 FITCHBURG—Dillon, D. M.
 Fitchburg Hardware Co.
 Goodrich, Edwin A.
 FOXBORO—Williams, Geo. F.
 FRANKLIN—Metcalf, O. F. & Sons
 Ray, Jas. F.
 GARDNER—Curtis, H. O. & Co.
 Davis, J. Walter
 Favor, M. M.
 Howe Bros.
 GLOUCESTER—Griffin & Co.
 Nauss, L. B. & Sons
 GREENFIELD—Lamb Bros.
 HARWICH—Moody, J. M.
 HAVERHILL—Chase, D. D. Lumber Co.
 Taylor-Goodwin Co.
 HINGHAM—Kimball, Geo. E.
 Whitney, Everett E.
 HOLYOKE—Burnham, C. G., 127 Main
 Landers, D. J.
 Lynch Bros. Brick Co.
 O'Connell's, Daniel Sons
 Prentiss, Brooks & Co., 58 Main
 HUDSON—Jones, E. A.
 Robertson & Larkin

HYANNIS—Crocker, T. & Sons
 Sears, J. K. & B. & Co.
 HYDE PARK—Darling, F. W. Co.
 IPSWICH—Glover, John S.
 LAWRENCE—Gage, G. L., 594 Essex
 Lawrence Lumber Co.
 O'Mahoney, M., 8 West
 Runnells, O. D., 8 Jackson
 Theberge, Bros., 170 Valey
 Treat Hdw. & Supply Co., 584 Essex
 LEE—Heaphy, Wm. A.
 LOWELL—Barton, Cyrus
 Bennett, Jno. C., 269 Dutton
 Cawley, Edward, 131 Central
 Cogger, P.
 Conners Bros. Construction Co.
 Livingstone Grain Co., 15 Thorndike
 Mullin, Jos., 953 Gorham
 Sherman & Martin
 Staples Bros. Co. (Sewer Pipe), School n
 Gas Works
 Sullivan, D. T., 45 Perry
 Wilson, E. A. & Co.
 LUDLOW—Burr Co.
 LYNN—Lamper, J. B. & W. A., ft of Pleasant
 av
 Whittredge & Co., 2 sca
 MARBLEHEAD—Martin, J. S. & Co.
 MALDEN—Kaulback, W. S.
 Locke Coal Co.
 Neville, Thos. J.
 Robinson, J. H. Co.
 MANSFIELD—King, A. D.
 MEDFORD—Cowan, J. N. & Co.
 Highland Coal Co.
 MELROSE—Benson Coal Co.
 Goss, C. B. & F. H.
 MELROSE HIGHLANDS—Hellen, S. H.
 MIDDLEBORO—Cushing, M. H. Co.
 MILFORD—Barney, H. A.
 Field, Z. C.
 MILLIS—Mitchell, W. S.
 NANTUCKET—Killeen, John
 Swain, William T. (Est. of)
 NATICK—Robinson & Jones
 Union Lumber Co.
 Whitney, E. & Co.
 NEPONSET—(See Boston)
 NEW BEDFORD—Borden, H. T. & Co.
 Greene & Wood
 Paine, S. S. & Bro., 139 Front
 Paisler, Chas. S., 160 N Water
 NEWTON UPPER FALLS—Sweet, I. W.
 NEWTONVILLE—Nonantum Coal Co.
 NORTH ARINGTON—Reed, A. B.
 NORTH ADAMS—Burlingame & Darbys Co.
 Sykes Coal & Grain Co.
 NORTHAMPTON—Bailey, W. A.
 Matthews, A. C.
 Sullivan, J. A., 3 Main
 ORANGE—Orange Hdw. Co.
 Potter, A. D.
 PALMER—Flynt Bldg. & Construction Co.
 PEARODY—Trask, J. Arthur
 PITTSFIELD—Gamwell, C. C., 65 Columbus av
 Howard & Morrow, 59 North
 PLYMOUTH—Atwood, Anthony
 Samson, Ernest L.
 PROVINCETOWN—Dyer, B. H. & Co.
 Lewis & Brown
 QUINCY—Crane, F. H. & Son
 Richards, A. J. & Son
 READING—Rancroft, Wendell & Co.
 ROCKLAND—Culver, A. Co.
 SALEM—Fairfield, James, 52 Central
 Langmaid, J. P. & Sons, 301 Derby
 Parsons, Jos. M., 303 Bridge
 Pickering, G. W., 87 Union
 SHELburne FALLS—Newell, H. & Co.
 SOMERVILLE—Highland Coal Co., 367 High-
 land av
 Sparrow, E. S. & Co.
 SOUTH FRAMINGHAM—Fales, A. Sons Co.
 SPRINGFIELD—City Lumber Co., 2 Beach
 Harder, Franklin
 McKenzie, Wm. D., 23 Yale
 New York & New England Pulp Plaster Cor-
 poration
 Nohle, Burton E. Co., 202 Lyman
 Puffer, H. C. Co., 150 State
 Shea, T., 19 Hampden
 Viets, S. D. Co., 486 Mill
 Wilder, John W., 129 State
 TAUNTON—Sanders, C. V. & Co.
 Staples Coal Co., 50 City sq
 TURNERS FALLS—Webster, F. I.
 UXBRIDGE—Blanchard Bros. Granite Co.
 Harris, William M.
 WAKEFIELD—Cheney, C. A. & Co.
 WALTHAM—Bnttrick Lumber Co.
 Carney, J. Coal Co., 70 Calvary
 Frost, G. Frank, 33 Moody
 Waltham Coal Co., 663 Main
 WARFHAM—Gurney, Ansel S. & Co.
 WATERTOWN—Pevear, W. H. & Co., 5 Spring
 WEBSTER—Holmes, Wm. H.
 WESTFIELD—Gladwin, L. Jr., 224 Elm
 Mahoney, P. J., 46 Orange

WEST NEWTON—Eddy, C. F. Co.
 WEST STOCKBRIDGE—New England Lime Co.
 Tobey Bros.
 WEYMOUTH—Rhines, J. B. & Co.
 Sanborn, W. F. & Co.
 WILLIAMSTOWN—Waterman & Moore
 WINCHESTER—Blanchard, Kendall & Co.
 WOBURN—Barker Lumber Co.
 Wyman, R. B.
 WORCESTER—Gough, H. D. & Co.
 Marsh, B. F., 24 Maywood
 Powers, Frank E., 20 Southgate
 Smith-Green Co.
 Streeter, E. S. & Sons
 Wilson & Holden, 154 Main

MICHIGAN.

ADRIAN—Gimbert, Thomas
 Matthes Bros.
 Stevenson, A. & Son
 ALLEGAN—Green, F. H.
 ALMA—Tinker & Hannah
 ALMONT—Hart & Sullivan
 ALPENA—Collins, Richard
 Fox, Owen
 ANN ARBOR—Sweet, G. W.
 Wood, S. & Co.
 AUGUSTA—Marvin, H. M.
 BAD AXE—Carey, W. H. & Co.
 BANGOR—Broadwell, William M.
 BATTLE CREEK—Dibble, W. N.
 Kirkpatrick, W. J.
 Knox & Seadorff
 Rupert & Morgan
 Stiles, I. H.
 BAY CITY—Boutell Robt.
 Stiver-Mather Co.
 Young, F. P.
 BAY SHORE—Elk Portland Cement & Lime
 BELDING—Prall, M. J. Co. (Jobbers)
 BELLEVILLE—Miller, Frank
 Wallace, W. A.
 BELLEVUE—Malvany, F. M.
 BENTON HARBOR—Robbins, W. P.
 BESSEMER—Hanson, Cornelius
 BIG RAPIDS—Sloss, William J.
 BRIGHTON—Hyne, F. T. & Co.
 BROWN CITY—Large, John
 BUCHANAN—Miller, W. J.
 CADILLAC—Cobbs & Mitchell
 Manktelow, C. J.
 Wilcox Bros.
 CALUMET—Armstrong, Thielman Lumber Co.
 CARO—Heartt, Wm. A.
 Van Tine, G. N.
 CARSON CITY—Rockafellow Grain Co.
 CASSOPOLIS—Hayden, W. B. & Son
 CHENOY—Dodd, G. C. & Co.
 McArthur, W. & A. Co., Ltd.
 COLDWATER—Beard & Son
 Pollock, S. & Son
 COLEMAN—Simons, T. B. Mercantile Co.
 CROSSWELL—Helm Bros.
 Quail, D. & Son
 DEARBORN—Wallace, James D. (Est. of) (Also
 Lumber)
 DETROIT—Boomer, I. E., Forest av, E. & D.
 G. H. & M. R'y
 Brady & Co., 9 Woodward av
 Cooper, A. & W.
 Detroit Cement Stone & Tile Co.
 Dickinson, H. H.
 Evoy, Thos., 73 McKinstry av
 Heal, George
 Heames, W. E. & Co., 75 Woodbridge, W
 Holmes, F. B. & Co., Hammond bldg
 Houghten, Hy., Hammond bldg
 Little, Charles H. Co., Peninsula Bank bldg
 McKerchey, John M.
 Meyer, R. M.
 Michigan Builders' Supply Co., c Forest av
 E. & D. G. H. & M Ry.
 National Sand & Cement Block Co.
 Standard Portland Cement Co.
 Steffes, M. & Son
 Steinheiser, Christian P.
 Stevens, F. B., 3d & Larned
 Thomas Bros. & Co., Hammond bldg
 U. S. Gypsum Co., Peninsula Bank bldg
 Wabasb Portland Cement Co.
 DOWAGIAC—Bisnop, George E. Hardware Co.
 Judd, M. & Son
 Lindsly, J. A. & Co.
 Schmitt Bros.
 DRYDEN—Booth, Robert
 EATON RAPIDS—Webster, H. P. & Son
 ESCANABA—Nee, Coleman
 FAIR GROVE—Richardson, F. H. & Co.
 FENNIVILLE—Dickinson, L. S.
 FENTON—Potter, Burdick & Son
 FLINT—Doyle, Thos.
 Matthewson, Fred G.
 Randall Lumber & Coal Co.
 Switzer Bros.

FLUSHING—Ottaway, J. E. & Co.
 FOWLERVILLE—Cook, F. J. & Co.
 Rounselle, F. G.
 FREEPORT—Cool, J. D.
 Fox, W. & Co.
 GRAND LEDGE—Astley, T. W.
 Doty & Doty
 GRAND RAPIDS—Battjes Fuel & Building Material Co.
 Boer, James
 Dykema, K. & Son
 Himes, Albert Coal Co.
 Home Fuel Co.
 Hulst & Van Heulen Fuel Co.
 Hyde, Albert, 860 Madison
 Knowlson, A. B., under National City Bk
 Mol, James, 101 W Leonard
 Morman, S. A. & Co.
 Superior Lime Co.
 Wykes-Schroeder Co.
 GREENVILLE—Miller & Miller
 HANCOCK—Stringer, J. S.
 HILLSDALE—Aldrich, G. A. & Son
 HOLLY—Hudson, M. M.
 HOUGHTON—Van Orden, Matthew Co.
 HUDSONVILLE—Hughes, B. & T. (Also Saw Mill)
 IMLAY CITY—Walker, Walter & Co.
 IONIA—Page, W. C. & Co.
 IRON MOUNTAIN—Holfeltz, J. R. Co.
 ISHPEMING—Consolidated Fuel & Lbr. Co.
 Losselyong Bros.
 ITHACA—Gibbs, D. C.
 JACKSON—Bartlett, J. E. Co.
 Howind, O. A.
 Lake, Ulricksen Co.
 KALAMAZOO—Darling, Wm. P.
 Dewing & Sons
 Molhoek, Peter
 North & Coon Lumber Co.
 Sales, James A.
 LAINGSBURG—Sharpe, C. D.
 LAKEVIEW—Macomber & Bale
 LANSING—Lacy, P. E. & Co.
 Lansing Artificial Stone Co.
 LAPEER—Cutting, Frank R.
 King, Robert Lumber Co.
 White, Robert A.
 LUDINGTON—Kieswalter, John
 MANCERONA—Mancelona Mfg. Co.
 Wisler & Co.
 MANCHESTER—Kelly, James
 MANISTEE—Buckley & Douglass Lumber Co.
 Duncan, J. W.
 Filer, D. L. & Sons
 Sands, Louis
 MANISTIQUE—White Marble Lime Co.
 MANTON—Meyer Hdw. Co.
 MARINE CITY—Decker, Rudolph
 MARLETTE—Wilson, H. W.
 MARQUETTE—French, George E.
 MARSHALL—Blanchard & Bull
 MASON—Michelson, Carl P.
 MEMPHIS—McCall & Co.
 Memphis Roller Flouring Mills
 MENOMONEE—Lyon Bros. & Co.
 Nowack, F. C.
 MILFORD—Cate & Son
 MONROE—Radtko August
 MOUNT CLEMENS—Hacker, F. G.
 Paganetti, John S.
 Ulrich, R. C.
 MUIR—Hawley, West & Co.
 MUSKEGON—Holton Brick Co.
 Kantiz, L. H.
 NEW BALTIMORE—Baker, William
 NILES—Reddick, W. A.
 OTSEGO—Bardeen, Geo. E.
 Siple, George H. & Co.
 OWASSO—Todd, Albert & Co.
 PAW PAW—Hathaway, C. N.
 Waters, H. C. & Co.
 PLAINWELL—Wilson & Man
 PONTIAC—Osmun, W. H.
 PORT HURON—Cruckshank, A. G.
 Jarvis Bros.
 Jenks, Taylor, Howard & Co.
 PORTLAND—Estep, Chas. A.
 QUINCY—Kinyon, E. H. & Son
 READING—Hartwell & Doig
 REED CITY—Stoddard Bros.
 Welsh Mfg. Co.
 SAGINAW—Johnson, E. E., 401 S Tilden
 Morley, Ewen & Co., E Side
 Remer Bros., 300 Madison, W. S.
 ST. CLAIR—Belknap & Phillips
 Sheldon, Charles
 ST. JOHNS—Hicks, John C.
 ST. JOSEPH—Wallace, John & Sons
 SALINE—Ford, E. W. & Son
 SAULT SAINT MARIE—Port Royal Dock Co.
 SOUTH ROCKWOOD—Strong, John
 SPRINGPORT—Hoag, R. B. & Son
 STANTON—Pierson, John W. S. & Co.
 TECUMSEH—Slayton & Son
 THREE OAKS—Brower, Jacob
 THREE RIVERS—Case, F. M. & Co.

Griffith, John
 TRAVERSE CITY—Hannah & Lay Mercantile Co.
 UTICA—St. John & Church
 VASSAR—Miller, Frank
 VICKSBURG—Clapp Bros.
 WALDRON—Abbaduska & Son
 WALTZ—Waltz & Ziegler
 WAYNE—Wallace, John B.
 WEST BAY CITY—Emery, John H. & Co.
 WHITE PIGEON—Driesbach, F. C.
 WILLIAMSTON—Dennis, M. A.
 WOODMERE—Mason, Richard
 WYANDOTTE—Wayman Coal & Ice Co.
 YALE—Walker & Middleton
 Wharton & Co.
 YPSILANTI—Thompson, O. E. & Sons
 Webster Bros. & Sons
 ZEELAND—Zeeland Brick Co.

MINNESOTA.

ADRIAN—Becker, J. C.
 Shull, J. & W. C.
 ALEXANDRIA—Page Bros.
 ANOKA—Chesley, Frank A.
 McCanley, George A.
 BIWABIK—Colvin & Rohb
 BLOOMING PRAIRIE—Solberg, A. Lumber Co.
 Vebben Mercantile Co.
 CLOQUET—Fish, L. A. & Co.
 DULUTH—Bullard, H. D., Palladio bldg
 Cutler, D. G. & Co., Providence bldg
 Dixon & Lory
 Kelly Island Lime & Transport Co.
 Paine & Nixon Co., 106 W Mich.
 Standard Salt & Cement Co.
 Thomson & Dunlop, 226 W Mich.
 FERGUS FALLS—Barbeau, Dave
 Gray, F. H.
 HUTCHINSON—Thompson, M. C.
 LITCHFIELD—Esbjornson, John
 LITTLE FALLS—Mathieson, Thomas J.
 MADEIRA—Gove, E. L.
 MANKATO—Coughlan, T. R.
 Fowler & Pay
 Hanna, M.
 Mankato Lime & Stone Co.
 MILAN—Anderson, T.
 Christensen Bros.
 MINNEAPOLIS—Cutler, D. G. Co., Lumber Ex.
 Dunn, Theo., 1 W 29th
 Fort Dodge Gypsum Co., Security Bank bldg
 Fosseen-Hamilton Hardware Co.
 Fowler & Pay, St. Anthony pk
 Guarantee Cement & Stone Co., New York Life bldg
 Hewson, S. J. Co. (Mfrs.' Agts.), 10 N 3d
 Homan Cement & Lime Co., Lumber Ex.
 Johnson, Harold, 216 Lumber Ex.
 Landers-Morrison-Christenson Co., Lumber Exchange
 Menomonie Hydraulic Press Brick Co., 10
 Minneapolis Cedar & Lumber Co., N 3d
 Minneapolis Lime & Cement Co., 216 3d
 Miracle Pressed Stone Co., av, S
 Northwestern Lime Co., Lumber Ex.
 Paine, Asa
 Superior Mfg. Co., 209 Hennepin av
 Union Railway Storage Co., Security Bank bldg
 United States Gypsum Co.
 MOORHEAD—Moorhead Brick Co.
 MORA—McIntire, S. D.
 MORRIS—Jones, Edwin J. Lumber Co.
 NEW ULM—Bingham Bros.
 OWATONNA—Laird, Norton Yards
 Thompson & Roell Hardware Co.
 PELICAN RAPIDS—Stenerson Bros.
 RED WING—Lillyblad, Gustave
 ROCHESTER—Dodge, Wm. H., Main st
 ROLLING STONE—Schub Bros.
 ST. CLOUD—Gruher & Co.
 ST. PAUL—Alpena Portland Cement Co.
 Bell, D. L., 270 Jackson
 Capital City Lime & Cement Co., Natl. G. A.
 Dana Warehouse Co., Bank bldg
 Eureka Stone Co., Park av & Wabasha
 Grant, I. A. (S. St. P.)
 Lawes, Geo. H. & Co., 156 E 3d
 Lott, K. F., Gilfillan Block
 Northwestern Lime Co., 68 Lower Levee
 St. Paul Lime & Cement Co., 156 E 3d
 Shakopee Cement & Lime Mfg. Co., 220
 Spates, S. P. & Co., 164 E 3d Chestnut
 Wilson, O. G. & Co.
 SAUK CENTER—Ingram Lumber Co.
 SHAKOPEE—Schroeder, Herman
 STILLWATER—Consolidated Lumber Co.
 Kilty, Jno. J.
 WARREN—Lundgren, August
 Robertson Lumber Co.
 St. Hilaire Retail Lumber Co.
 WINDOM—Strunk, Sherwin Co.
 Windom Brick & Tile Co.

WINONA—Biesanz, Philip
 Bolcom, H. C. Lumber Co.
 Cone, R. D. Co.
 Empire Lumber Co.
 Laird-Norton Yards
 O'Dea, John
 Willis, H. J.

MISSISSIPPI.

BILOXI—Rosell, T. J. Mfg. Co.
 GREENVILLE—Neal, Wm. H.
 GREENWOOD—Barrett, A. H. & Son
 JACKSON—Jackson Lumber Co.
 Morrison Bros.
 MERIDIAN—Hester Coal Co.
 VICKSBURG—Beck, Jno. W.
 Crook, R. L. & Co.
 Gregory, T. S.
 Williams, P. P. Co.
 Worrell, W. O. & Co., N Wash'n
 Wright Bros.
 YAZOO CITY—Powell, J. F.
 Quekemeyer & Gardner

MISSOURI.

BETHANY—Cadle Lumber Co.
 Miner & Frees
 BEVIER—Rowland Bros.
 BILLINGS—Tiede Lumber Co.
 BONNE TERRE—Tetley, F. I.
 BOONVILLE—Meierhoffer, Chas.
 Roberts, E. H. & Son
 BROOKFIELD—Bettleheim, A. E. Co.
 BUTLER—Logan-Moore Lumber Co.
 Wyatt, H. C. & Son
 CALIFORNIA—Mengel, W. H.
 CARTHAGE—Harrison, J. F.
 Home Lumber Co.
 Regan, S. H. Lumber Co.
 Thomas, B. F.
 COLUMBIA—McAlester Lumber Co.
 DE SOTO—Herman, Otto
 ELDORADO SPRINGS—Logan-Moore Lumber Co.
 EXCELSIOR SPRINGS—Chicago Lumber Co.
 FARMINGTON—Isleman, Jno.
 Lang & Bro.
 Tetley-Klein Lumber Co.
 FAYETTE—Lacrosse Lumber Co.
 FREDERICKTOWN—Fredericktown Brick Co.
 Fredericktown Lumber Co.
 FULTON—Callaway Hardware Co.
 GALLATIN—Ballew, T. W.
 HANNIBAL—Hannibal Lime Co.
 HOLDEN—Starkey, I. (Est. of)
 JOPLIN—Chickering, H. L.
 KANSAS CITY—Aetna Cement Plaster Co., 121 W 8th
 Brockett, C. A. Cement Co., 121 W 8th
 Bryant Supply Co.
 Builders' Material Supply Co.
 Builders' Sand Co.
 Creel, T. C. Lumber Co., 5th c Central
 Deatherage Lumber Co., 16th & Indiana av.
 Dickey, W. S. Clay Mfg. Co.
 Eadie Building Supply Co.
 Fellows, A. M. Coal & Material Co.
 Fort Scott Cement Association
 Halliwell Cement Co. (Cement Mfrs.), 312 E 9th
 International Trading Co., M. K. & T. bldg
 Iola Portland Cement Co.
 Kansas City & Fort Scott Cement Co. (cement mfrs.), 121 W 8th
 Kansas City Portland Cement Co.
 Lynch-Watkins Lime & Cement Co., 1900
 McKinney, Howard C. Walnut
 Merrill, J. W.
 Missouri Lime & Cement Co., 203 Postal
 Portland Cement Co. Telegraph Bldg.
 Roll Coal & Lime Co., 1929 Main
 Southwestern Portland Cement Co.
 Western States Portland Cement Co.
 Western White Lime Co., Postal Tel. bldg
 Westport Lime & Cement Co.
 LEBANON—Lingsweller, J. G.
 LEXINGTON—Moorhead, J. R.
 LUTESVILLE—Clark, Geo. E. & Son
 MARSHALL—Page, E. R.
 Rose Bros.
 NEOSHO—Briggs Hardware Co.
 Neosho Planing Mill Co.
 POPLAR BLUFF—Reynolds, Jesse
 ST. JOSEPH—Badger Lumber Co., 6th & Penn
 Biles, N. D. L. & Co., 1422 S 6th
 Bnrgess-Frazer Iron & Hardware Co.
 Dougherty & Moss Lumber Co., 10th & Mitchell av
 Early, T. R. & Co., Pryor & Ariz. av
 Friede & Bode, 17th c Grand av
 Fullerton Lumber Co., 8th & Patee
 McVeity, F. R. Fuel Co., 6th c Olive

Nold, C. H. Lumber Co., 1212 N 4th
Nowland & Manning, 4th & Seneca
Preston & Newcomb, 5th & Patee
Ray, E. W. & Son, 802 S 7th
ST. LOUIS—Acme Cement Plaster Co., 904 Olive
Banner Lime & Cement Co., 2436 Kosciusko
Carthage Marble & White Lime Co.
Glencoe Lime & Cement Co., 1400a Old Manchester road
Goetz, Chas. W. & Co., 3527 Gratiot
Hunkins-Willis Lime & Cement Co., (wholesale), 18th & Austin
Illinois Steel Co., Odd Fellows bldg
Iola Portland Cement Co., 436 S Theresa av
Johnson, W. L., 1236 Old Manchester rd
McNeil Pressed Brick Co., Chemical bldg
Martin, Lawrence & Co., Parnell & Nat'l Bridge rd
New Union Sand Co., 211 N 7th
Stc. Genevieve Lime & Quarry Co., Mermoid & Jaccard bldg
St. Louis Portland Cement Co., Prospect Hill Station, C. B. & Q. Ry
SPRINGFIELD—Marblehead Lime Co.
Owen Coal Co.
Rogers & Baldwin Hdw. Co.
Springfield Planing Mill & Lumber Co.
TIPTON—Ferguson, Wm. M.
UNION—Reinhard, Chas. P.
WEBB CITY—Matthews, O. E.
WENTZVILLE—Michel, Henry
WEST PLAINS—Holt, S. J. Lumber Co.
WINDSOR—Arnold, Hayden & McKee

MONTANA.

ANACONDA—Anaconda Copper Mining Co.
Stagg, J. P.
BILLINGS—Allen, H. M. & Co.
Babcock, A. L. Hardware Co.
BOZEMAN—Brown, J. N.
BUTTE—Anaconda Copper Mining Co.
Butte Sewer Pipe & Tile Co.
Citizens' Coal Co.
DILLON—Dillon Lumber Co.
GREAT FALLS—Graham & Ross
Great Falls Lumber Co.
Holter Lumber Co.
Murphy-MacClay Hardware Co.
HELENA—Holter, A. M. Hdw. Co., 113 N Main
Prescott, A. K.
Sanford & Evans

NEBRASKA.

BEATRICE—Beatrice Brick Works
Von Steen, J. H. (Wholesale)
Wiebe, J. G.
BLAIR—McQuarrie, John
FREMONT—Nye-Schneider-Fowler Co.
GOTHENBURG—West, E. G.
GRAND ISLAND—Harrison, W. H.
Schmidt, Louis
HEBRON—Young, Knode & Co.
HOLDREDGE—Cornell & Talbot
HUMBOLDT—Philpot & Tanner
KEARNEY—Gilcrest, F. H. Lumber Co.
Seeley, O. S.
KENESAW—Kenesaw Lumber Co.
LAUREL—Waite, Oliver & Son
LINCOLN—Brown, F. W. Lumber Co.
Dierk's Lumber & Coal Co.
Searle & Chapin Lumber Co.
Trestler Lumber, Coal & Ice Co.
Whitebreast Coal & Lumber Co.
Young, R. S. Building Supply Co.
LOUP CITY—Ohlsen Bros.
NEBRASKA CITY—Bickel, J. R.
Blischof, Wm.
NELIGH—Brenton, T. H.
NORFOLK—Chicago Lumber Co.
Edwards & Bradford Lumber Co.
Mittlestadt, L. C.
NORTH PLATTE—Iddings, C. F.
OMAHA—Adams & Kelly Co., 1529 Sherman
Bullard, Haughland & Benedict, Izard c 20th
Cady, H. F. Lumber Co., 6th & Douglas
Disbrow, M. A. & Co., 1201 Nicholas
Guion & Ledwich, 1024 N 18th
Hampton Lumber Co., 1242 S 16th
Hoagland, G. A., c 9th & Douglass
Hull, C. W. Co., Izard, c 20th
Neb. Coal & Lime Co., 109 S 15th
Wagner & Buchanan, 23d & Paul
SOUTH OMAHA—Bradford-Kennedy Co.
Bradford, Louis Lumber Co.
Howland, E. H. Lumber & Coal Co.
Munshaw, Ed. & Co.
Watkins, J. B. & Co.
TEKAMAH—Houston, E. C. & Co.

NEW HAMPSHIRE.

ASHLAND—Merrill, D. C.
BERLIN—Berlin Mill Co.
Rowell, H. C.
BRISTOL—Merrill, C. N. & Son
CLAREMONT—Boynton & Ellis
Osgood, E. H.
CONCORD—Day, A. N.
Dickerman & Co.
Woodworth & Co.
DOVER—Place, A. Converse
EPSOM—Marden, Freeman
EXETER—Dow, A. N.
Smith, L. B. & Son
FRANKLIN—Stevens, C. P.
Tilton, A. C.
KEENE—Knowlton & Stone
Spencer Hardware Co.
LACONIA—Guay & Wallace
Smith, John P.
LANCASTER—Moore, L. F. (Heirs of)
Smith, Frank & Co.
LISBON—Parker & Young Co.
MANCHESTER—Adams Bros.
Head & Dowst Co.
Merrill, Clarence R.
Parker, Henry W.
MEREDITH—Bartlett & Smith
MILFORD—Kittredge Edward G.
Winslow, W. L.
NASHUA—Stearns, Henry
Tilton, O. B.
Willard, George A.
NEWPORT—Rowell, F. P.
NORTH CONWAY—Gibson, J. L.
PEMBROKE—Warren, H. M.
PENACOOK—Rolfc, C. M. & A. W.
PORTSMOUTH—Broughton, J. H.
Walker, C. E. & Co.
Walker, A. W.
ROCHESTER—Bradley, Charles W.
TROY—Kimball, E. P. & Son

NEW JERSEY.

ASBURY PARK—Buchanon & Smock Lbr. Co.
Consumers' Coal & Supply Co.
De Cou, W. E. & Son
Farmer, Geo. P. Coal & Supply Co., 51 S Main
Lewis, Charles, Main n B'way
Manasquan Gravel Co.
Palmateer Bros.
ATLANTIC CITY—Borton Coal & Trading Co.
Smith, Edwin, 1211 Arctic av
ATLANTIC HIGHLANDS—Hopping & Ely
BASKING RIDGE—Conklin Lumber Co.
BAYONNE—Booth, A. W. & Bro.
Brady, James, 42 E 1st
BEVERLY—Perkins, A. T.
BLOOMFIELD—Bloomfield Coal & Supply Co.
Ogden & Cadmus
BOONTON—Boonton Lumber Co.
Salmon, Henry & Son
BORDENTOWN—Chamberlain, John G.
Shreve, W. A. & Co.
BOUND BROOK—Cook, L. D. & Co.
BRIDGETON—Cassidy Bros.
BURLINGTON—Riggs, Edw., Jr.
CAMDEN—Camden Lime Co., 127 Federal
Justice, J. S. & Co., 206 Market
Kilpatrick, Samuel A., Federal ab 12th
Reeve, Aug., 31 Market
Smith, B. S., Federal nr Cooper's Creek
Taylor Bros., c Front & Market
CRANFORD—Rindell, R.
DOVER—Birch, Foster F.
Dover Lumber Co.
EAST ORANGE—Cook & Genung Co.
Pierson, James T. & Co., 89 Dodd
EDGEWATER—Hinner's; E. H. Sons
ELIZABETH—Enterprise Coal & Supply Co.
Hall & Carlton
Marron Bros.
Mulford Coal & Lumber Co.
Neureiter & Horre, 336 E Jersey
Sayre, T. F. & H. C.
Smith Lime Flour Co.
Thompson, J. & S. S.
ENGLEWOOD—Bogert, Andrew D.
Payson, George H.
Tuttle Bros.
FANWOOD—Smith, C. A. & Co.
FAR HILLS—Dumont, David
FREEHOLD—Statsir Lumber Co.
GLADSTONE—Tiger, Ellis Co.
GLASSBORO—Shute, A. E.
GLOUCESTER CITY—Stinson & Dickinsheets
HACKENSACK—Gardner, I. E.
Hackensack Coal & Lumber Co.
Holley & Smith
HACKESTOWN—O'Simon's, E. M. Sons
HADDONFIELD—Bell Bros.
HAMMONTON—Bernhouse, William H.

HARRISON—Harper Brick Co.
HOBOKEN—Birch, Thos. E.
Kortlang, Hy., 60 Park av
Vanderbilt, Henry H.
Vanderbilt, Jacob
JAMESBURG—Perrine & Buckelew Co.
JERSEY CITY—Appleby, J. Charles
Baldwin Lumber Co., Garfield av
Conlon, Edw. W.
Hall, James P., ft Henderson
O'Neill, Chas. H. (Est. of)
Union Stone Co., 256 Brunswick
United Building Material Co.
Van Keuren & Son, Grand & Prior
Washburn Bros. Co., ft Jersey av, South Cove
KEARNY—(See Arlington)
KENNIL—Kenvil Lumber & Coal Co.
LAKEWOOD—Lakewood Supply Co.
Larabee, Alfred S.
Loomis, A. J. Co.
LAMBERTVILLE—Massey, Geo. W.
LITTLE FERRY—Brewster & Son
LONG BRANCH—Chandler & Maps
Edwards Lumber & Coal Co.
MADISON—Bruen & Morres
Green & Pierson
Smith, Joseph M. Co.
MANASQUAN—Vanleer, E. S.
MATAWAN—Cartan & Delvin
MERCHANTVILLE—Collins & Pancoast
METUCHEN—Edgar, Chas. S.
Freeman, Manning & Son
MILLVILLE—Cory, Charles F.
Kimball, Prince & Co.
MONTCLAIR—Osborne, Marseilles Co.
Persons, W. O.
MORRISTOWN—Ennis, C. W. & Co.
MOUNT HOLLY—Cronk, Horace
Dubell, Furman
NEWARK—Bowden, Fred'k
COOK & GENUNG CO., 16 & 18 Jersey
Newark Lime & Cement Co., ft Bridge
Ogden, Henry E.
Phillips White Rock Lime Co. (Lime), 125 Front
Reeve, Abner S. & Sons, 88 Front
Rolfc, Jno. H.
Sayre, James R., Jr., & Co., River n Centre St. Depot
Sayre, Marcus Co., Wharf adj. Centre st. Bridge
Schoonmaker, W., Verona av & Erie R. R.
Tomkins Bros., 74 Passaic
Windsor Lime Co., Centre st. wharf
Wolf, Stewart & Co., Waverly av c Peshine
Woodward, A. H. & Co., 110 Passaic
NEW BRUNSWICK—Johnson, William H.
Rolfc Building Material Co.
Weigel, Philip, Jr., 2 Peace
NEWTON—Losee, F. E.
OCEAN CITY—Shoemaker, C. H. Lumber Co.
ORANGE—Conover Bros., 51 Lincoln av
Matthews, A. M. & Co., 68 Freeman
PASSAIC—Anderson Lumber Co.
Campbell, Morrell & Co.
Union Building & Cons. Co.
PATERSON—Agnew, John (Est. of)
Brogan, T. J. Co., St. aight & Peach
Forbes, Cyril R., 785 Main
Goble, Martin, R. R. av c Ward
Kelley, C., R av c Green
New Jersey Brick Co.
Sharpe, Jos. Construction Co., 18th n Van Houten
Smith, A. H.
Stiles, E. M., 223 Ellison
Trimble Co.
PENN GROVE—Barber & Turner
Summerill, J. & Bro.
Turner, C. C.
PERTH AMBOY—Donnell, W. J.
Farrington Co.
Langan, Thomas
Robbins, I. R.
PLAINFIELD—Boice, Runyon & Co., 242 Park av
Loizeaux, Joshua D. & Co., 640 North av
PLEASANTVILLE—Lake & Risley Co.
PRINCETON—Beckman, J. V. D.
McCarthy & Sons
RAHWAY—Ayres, Ira C.
Fricse, G. M.
RED BANK—Throckmorton, J. A.
RIDGEFIELD PARK—Brewster & Son
RIVER EDGE—Bogert, A. Z.
RIVERSIDE—Zurbrugg, August
RIVERTON—Thomas Bros.
ROCKAWAY—Stickle, B. K. & J. W.
ROSELLE—Bachman-Veghte Co.
RUTHERFORD—Galloway, Edwin T.
Jaeger, Julius
SALEM—Lippincott, Clarkson G.
Stratton, Benjamin
SOMERVILLE—Sargeant Bros
Smith-Schoonmaker Co.
SOUTH ORANGE—Halsey, H. B. Co.

SOUTH RIVER—Clayton & Pierson
 STANWICK—Rogers, J. S. Co.
 SUMMITT—Muchmore, George V. Stephens Bros.
 SWEDESBO—McCullough, W. H.
 TENAFLY—Demorest, Edward
 TOMS RIVER—Brandt, A. A.
 TOWN OF UNION—(See Weehawken)
 TRENTON—Crozer & Stevens, 309 S Stockton Heath, Samuel Co.
 Hunt, James B. Mfg. Co., Richey bldg
 New Jersey Elastic Pulp Plaster Co.
 Richardson, P. B.
 Richardson, P. B., 111 E State
 Richey, A. H. & Co.
 VERONA—Slayback Bros.
 VINELAND—Kimball, Prince & Co.
 WASHINGTON—Alleger's, E. W. Son
 Gulick, Walter D.
 WEEHAWKEN—Berger, Edw. W. & Bro.
 WESTFIELD—Irving J. S. Co.
 Tuttle Bros.
 WEST HOBOKEN—Keynton, Thos., 201 Clinton av
 WESTVILLE—Patterson, Z. & Son
 WOODBRIDGE—Brown, David A.
 WOODBURY—Chew Bros.
 Walton, Charles

NEW MEXICO.

ALBUQUERQUE—Baldridge, J. C.
 Toti & Gradi
 SANTA FE—Dudrow, C. W.
 Hersch, Leo

NEW YORK.

ADAMS CENTER—Maxson, E. C.
 ALBANY—Batchelder, R. C., 774 B'way
 Blackburn, J. T. D.
 Dwight, H. A., 117 Pier
 Fuller, Howard N., Chapel c Sheridan
 Halpin, Wm. P.
 Helderberg Cement Co. (Cement Mfrs.), 78
 Jackson, John H., 3d av ab Sloan State
 Leonard & Co., 356 State
 McCabe, Peter, 122 Pier
 McClellan, Jno., 311 B'way, Rensselaer
 ALTAMONT—Sands' Scns
 AMENIA—Wilson & Eaton Co.
 AMITYVILLE—Wood, Charles (estate of)
 AMSTERDAM—Maehold, B. P.
 ASTORIA—(See Long Island City, Borough of Queens)
 ATHENS—Howland & Son
 AUBURN—Barnes, D. W. & Son, 5 Wall
 Clark Lumber Co.
 McCarthy Bros.
 BABYLON—Taylor & Bergen
 Wood, Charles & Co.
 BALDWINVILLE—Peck, George H. & Co.
 BALLSTON SPA—Streever, Chas. H.
 BATAVIA—Dawson, William E.
 BATH—Bowes, H. W. & Co.
 BINGHAMTON—Ballard, J. W. Co., 21 Jarvis
 Bartlett & Co., 37 Collier
 Bloomer, E. F., 59 Collier
 D. & H. Lime & Cement Co.
 Ensign Lumber Co., Jarvis n Erie R. R.
 BOWMANVILLE—Meyers, L. P.
 BROADALBIN—Finch, W. W. & Co.
 BROOKLYN—See New York City, Borough of
 BUFFALO—Black, John H. (Mfrs' Agt.), Build-
 ers' Exchge.
 Buffalo Cement Co. (Ltd.) (Mfrs.), 110
 Carroll Bros.
 Carroll, J. E.
 Dehn, Charles (Gravel, Sand, etc.), Louisa
 Empire Limestone Co. (Gravel) & Perry
 Fox & Halloway (Sand), 252 Pearl
 Humbert, Wm. S.
 King, J. B. & Co., 322 W Genesee
 Lyth Tile Co.
 Newman, H. L. & W. C., 141 Erie
 Pfohl, Louis & Son, 30 Ohio
 Reeb, M. A., 599 Michigan
 Ross, James H., 141 Erie
 Thorn Cement Co., 23 W Swan
 BURDETT—Smith, H. C.
 BURNHAM—Payne, M. B.
 CANANDAIGUA—Davidson, Alex.
 Hollis, A. M. Co.
 McNulty, F. X.
 Thompson, George T.
 CANASERAGA—Barnum, W. H.
 CANISTEO—Brasted, P. O.
 Strait, J. H. Milling Co.
 CARMEL—Palmer, B. S.
 CARTHAGE—Jones & Simmons
 CATSKILL—Holdridge, Geo. W. & Son
 Raynor, A.
 Timmerman, P. V. R.

CATTARAUGUS—Rich & Easton
 CHATHAM—Boright, John W. Lumber Co.
 CHAZY—Chazy Marble Lime Co.
 CHESTER—Conklin & Roe
 CLIFTON SPRINGS—Allis, H. S.
 CLINTON—Allen, H. J.
 Stelbins, Ellery
 CLYDE—Corrigan, Jos. G.
 COLESKILL—Courter, S.
 COHOES—Dooley, Jas. J.
 Murray & Riberty
 Neary, J. H. & T. W.
 Slavin, Charles J., 44 Lansing
 COLLEGE POINT—(See New York City, Bor-
 ough of Queens)
 CORINTH—Mason, George H.
 CORNING—Maltby, W. H. & Sons
 CORNWALL LANDING—Taft-Howell Co.
 CORTLAND—Beers & Warfield
 Maxon & Starlin
 CUBA—Allen, J. J.
 Low, S. R.
 CUTCHOGUE—Goldsmith & Tuthill
 DELHI—Gleason & Kiff
 Jackson, T. J.
 DEPOSIT—Putnam, W. J. & Co.
 DOLGEVILLE—Faville, W. H.
 DUNKIRK—Hamilton, S. M. Co., 217 Eagle
 Madigan & Co.
 DUTCHESS JUNCTION—Budd, W. D. Brick
 EAST AURORA—Geib, William H. Co.
 Griggs & Ball
 EAST HAMPTON—East Hampton Lumber &
 EDEN—Redfield & Davis Coal Co
 ELLENVILLE—Bailey & Deyo
 Cox Bros.
 ELMIRA—Booth, Irving D.
 Doane & Jones Lumber Co.
 Elmira Sewer Pipe & Fire Brick Co., 161
 R. R. av
 Fisk, H. A. & Co., E Clinton & State
 Harris, McHenry & Baker Co.
 McKnight, Theo.
 Spalding, H. C. Co.
 Thurston & Haskell, 622 State
 FAIRPORT—Holman, Geo. S.
 Loomis, A. M.
 FAYETTEVILLE—Bangs & Gaynor
 Sheedy, Thomas W.
 FILLMORE—Brooks, William P.
 FISHKILL LANDING—Aldridge, C. F.
 FLORIDA—Roe Bros.
 FLUSHING—(See New York City, Borough of
 Queens)
 FORT PLAIN—Diefendorf, W. J.
 Williams & Tanler Co.
 FREDONIA—Cobb & Pritchard
 Cooke, F. E.
 Sly & Coddington
 FREEPORT—Foreman, C. M.
 Ross & Randall
 FULTON—Gage, Porter & Co.
 FULTONVILLE—Mohawk Valley Lumber Co.
 GAINESVILLE—Bristol, J. W. & Son
 GENESEO—Neff, N. W. & C. D.
 GENEVA—Beard, J. H.
 Dwyer, Frank
 Geneva Lumber Yard
 Rogers, R. J. Lumber Co.
 Torrey Park Lumber Co.
 GLEN COVE—Titus & Bowne
 GLENS FALLS—Finch, Priyn & Co.
 Glens Falls Portland Cement Co.
 Sherman Lime Co.
 Thompson, C. C.
 GLOVERSVILLE—Holden, Charles J.
 GOSHEN—Conklin & Cummins
 GOUVERNEUR—Corbin, W. S.
 Nohle, H. H.
 GOWANDA—Van Deusen, J. E.
 GRANVILLE—Temple & Mason
 GREEN ISLAND—Smith, M.
 GREENPORT—Corwin, C. L.
 HAMBURG—Fno & Drummer
 HAVERSTRAW—Hedges, I. M. (Est. of)
 Lane, Charles R.
 HEMPSTEAD—McLean, John R.
 Mollineaux Bros.
 HERKIMER—Palmer, C. W. & Co.
 Pelton Bros.
 Snell, C. R.
 HEWLETT—Sprague, George T.
 HICKSVILLE—Angustine, Julius (estate)
 Herzog, F. & Son
 HIGHLAND FALLS—Muller Bros.
 HILLSDALE—Bullock & Herrington
 HOLLAND—Griggs, Ichabod N. & Son
 HOLLEY—Murphy, John
 HOMER—Maxon & Starlin
 HOOSICK FALLS—Easton, Rising & Worden
 HORNELLS—Hollands, Stephen
 Simmons, F. A. & Co.
 HUDSON—Benedict, R. B. & Son
 Macy, Charles W., 550 Union
 Traver, W. H. & Son
 HOME—Pratt, T. B.
 HUNTINGTON—Wood, W. Wilton

HURLEYVILLE—Prince, W. J.
 ILION—Russell, A. N. & Son
 IRVINGTON—Pateman & Lockwood
 ITHACA—Driscoll Bros. & Co.
 Fowles, J., 10 Main
 Jamlson & McKlenny
 JAMESTOWN—Sisson, Geo. W.
 KINGSTON—Gill, David, Jr.
 Griffiths, Frank H., 18 Hasb'k av
 Staples, A. S., c Mill & Hasb'k av
 LANCASTER—Garretsee, J. O.
 LARCHMONT—Larchmont Coal & Lumber Co.
 LAWRENCE—Wood, John A. & Son
 LE ROY—Helmlich, John
 Keeney, N. B. & Son
 Rogers, F. C.
 LESTERSHIRE—Baldwin, Edwin L.
 LOCKPORT—Crowe, Michael J.
 Stainthorpe, C. N. & Co.
 Whitmore, Mrs. C. B.
 LONG ISLAND CITY—(See New York City,
 Borough of Queens)
 LYONS—Lockwood, B. F.
 MACEDON—Servoss, Chas. J.
 MALONE—Moore, Orville
 Murtaugh, P. J.
 Thompson, H. D. & Co.
 MAMARONECK—Brewer, R. G.
 Moffatt, L.
 MARILLA—Adams, Connors & Brown
 MATTEAWAN—Davidson, S. M.
 MATTITUCK—Penny, George L.
 MECHANICSVILLE—Moore, Marshall G.
 Robinson & Ferris
 MERRICK—Smith, Thomas B.
 MIDDLE GRANVILLE—Rogers, A. N.
 MIDDLEPORT—Jackson, Thomas W. & Co.
 MIDDLETOWN—Crane-Giles Co.
 Ketchum, D. A.
 Le Fever Bros.
 Van Fleet, Wilbur
 MILLERTON—Beers & Trafford
 MONROE—Conklin, Geo. R.
 MONTGOMERY—Sears & Moore
 Vanderoef, John J.
 Wait, Charles D.
 MONTICELLO—Osborn Co.
 MOUNT KISCO—Young, Halstead & Co.
 MOUNT VERNON—Burton & Fenton
 Wilson & Adams Co.
 NEWARK—Bartle, A. C.
 NEW BRIGHTON—(See New York City, Bor-
 ough of Richmond)
 NEWBURGH—Harrison, John J. E., 488 B'way
 Wilson, Samuel A., 175 Wash'n
 NEW HAMBURG—Millard Lumber Co.
 NEW PALTZ—Lefevre, A. P.
 NEW ROCHELLE—Mahlstedt, J. A. Lumber &
 Coal Co.
 New Rochelle Coal & Lumber Co.

NEW YORK CITY.

Borough of Brooklyn.

BROOKLYN—Bannon, F. & Sons (Sand, etc.),
 129 Richards
 Bergen, Jno. H., 189 Montague
 Braun & Howe, 66 Huron
 Canda, M. M., 184 3d
 Candee & Kreckler, c 15th & Hamilton av &
 Castle Bros., Johnson pl 1217 Grand
 Clarke, Audley, 527 Smith
 Colyer, Jos. H., 11 Front
 Creamer, F. D. Co., ft 42d
 Empire Brick & Supply Co., 125 25th
 Flatbush Building Material Co. (Brick, Lime,
 Cement, etc.), 1661 Flatbush av
 Geiser, Chas. J., Grand & Metropolitan av
 Goss, C. S. & Co., Newton Creek
 Hasendug & Hellig, 363 Johnson av
 Mahnen, John H., 632 Kent av
 Monahan, John F., 378 Flushing av
 Morton's, John Sons Co., 387 Carroll
 Sullivan, J. T., 2452 Fulton
 Wenz, Chas., 2434 Atlantic av

Boroughs of Manhattan & Bronx

NEW YORK—Alsen Portland Cement (Imported
 Cement), 45 B'way
 Atlantic Cement Co., 7 E 42d
ATLAS PORTLAND CEMENT CO.
 (Cement Mfrs.), 30 Broad. (See adv. in-
 dex, end of book)
 Behrend, F. (Cement Importer), 54 Front
 Bell, John Co., E 137th & Girard
 Bloomer & Co., 290 Front
 Bowne, Thos. B. & Son, ft Main, West-
 chester
 Brooks, A. J. H. Co. (Shell Lime), 644
 Cable, W. N., 277 B'way W 51st
 Candee, Smith & Howland Co., ft E 26th

Cheshire Lime & Builders' Supply Co., 217 W 125th
Contractors' Supply Co., Webster av n E
Darrow, Rufus & Son, ft W 47th 198th
Empire Brick & Supply Co., 874 B'way

FLEMING & CO., 123 Liberty. (See adv. index, end of book)
Franclyn & Ferguson (Cement Importers), Cotton Ex. bldg

Fredenburg & Lounsbury (Fruit & Ornamental Brick & Cement), 289 4th av
Gallagher, John (Sand), ft E 38th
Gates, Church E. & Co., 138th & 4th av
Goss, C. S. & Co., 11th av & 51st
Heaney, P. J. & Co., West Farms rd & 176th
Hooker, W. T., 3d av & 129th
Johnson, F'k R., 253 B'way
Kane, John P. Co., 4th av & 22d
Lawrence Cement Co. (Mfrs.), 1 B'way
McCandlish, R. N. Kinney Co., 1123 B'way
Martin, Robert C. & Son, 156 5th av
Masons' Supply Co., 284 South
Miller, Clifford L. & Co. (West Stockbridge Lime; Dry Mixed Mortar; Cement; Plaster, etc.), 125 E 23d

Morse, Frank E. Co., 17 State
Murray & Reid Co. (Lime), 17 State
Murtagh & McCarthy, ft Rivington
Murtha & Schmoll Co., 814 E 14th
Peck, N. & W. J., ft E 48th
Person & Co., 160 5th av
Philbrick, John A. & Bro., ft E 97th
Raymond, G. B. (Clay Materials), 484 E 138th

SAYRE & FISHER CO. (Brick Mfrs.), 207 B'way. (See adv. first inside cover)

Sedgwick Flour Co., 1135 B'way
Smith, Clarence L. Co., 30th & 11th av
Smith, W. A., 516 E 141st
Sparrow, John E., 15 Whitehall
Stortz, Valentine, 76 Pine
Tomkins Bros., 256 B'way
Union Building Material Co., 1170 B'way
United Building Material Co., 320 B'way
U. S. Mortar Supply Co., 539 E 19th
Weeks, Chas. R. & Bro., 150 W 35th
Wise, Nath'l, ft E 79th
Wood, Theo. C., 137th & Madison av

Borough of Queens.

BAY SIDE—Roe, George S.
COLLEGE POINT—Kraemer Bros
FAR ROCKAWAY—Norton, Franklin C. & Co.
Pearsall, Lewis
JAMAICA—Styles, Thos.
FLUSHING—Ryon, Augustus M.
LONG ISLAND CITY—Boyce & Barnes Co.
Clonin & Messenger
Pfeffer, Jacob
OCEANUS—Jamieson & Bond
OZONE PARK—Reimer, Jno. B.
RICHMOND HILL—Brown, Geo. A. W. & Co.
Solms, Geo.

Borough of Richmond.

NEW BRIGHTON—Wood, John J.
PRINCE BAY—Seguin, Jos. C. & Co.
STAPLETON—McRoberts, Robert
Thompson, James & Sons
(END OF NEW YORK CITY)

NIAGARA FALLS—Humbert, Wm. S.
NORTH TONAWANDA—Berger, H. U.
Knapp-Cramer Hardware Co.
Rose, H. A. (Est. of)
NUNDA—Knappenberg, W. S.
NYACK—Gregory & Sherman
White, W. H. & Co.
OCEANUS—(See New York City, Borough of)
OGDENSBURG—Barr, John
Britton, W. D.
Hackett, P. Hardware Co.
OLEAN—Olean Supply Co.
Taylor, B. U. Co.
ONEIDA—Marcellus, Geo. A.
Ruhf, R. E.
ONEONTO—Briggs, N. H. & Son
Butts, L. P.
OSSINING—Terwilligers, I. Son
OSWEGO—Farwell, J. B. & Co., ft. W Schuyler
OWEGO—Farmers' & Builders' Supply Co.
PAI'CHOGUP—Bailey, E. & Sons
PAWLING—Ferris & Colman
PEARL RIVER—Serren, W. A.
PEEKSKILL—Dains, N. Sons Co.
PIEKMONT—Walsh & Reichling
PIKE—Dolph, H. C.
PINE RUSH—McKinney, Henry J.
PLATTSBURG—Henry, Wood & Marshall
Purdy, Frank M.
PLEASANTVILLE—Cornell, S. W.

PORTCHESTER—Peck, W. E.
Ryan, William & Co.
Tibbits, Charles H.
PORT JEFFERSON—Fanning, O. T. & Co.
Mather, John T.
PORT JERVIS—Westbrook, Edw. S.
PORT RICHMOND—(See New York City, Borough of Richmond)
PORT WASHINGTON—Copp, C. W.
POTSDAM—Baldwin, H. K. & Co.
Weed, F. A.
POUGHKEEPSIE—Arnold, C. N.
Foster, D. C. & Sons
Lumb, George W. & Son
Lumb's, Levi Son
Wilbur Co.

PRINCE BAY—(See New York City, Borough of)
RANDOLPH—Fell & Almy
RENSSELAER—Welsh & Gray
RHINEBECK—Herrick, T. J.
RICHMONDVILLE—Harroway, M. W.
RIPLEY—Crandall, J. E.
RIVERHEAD—Corwin & Vail Lumber Co.
Young, O. R.

ROCHESTER—Hollister Concrete Block Co.
Lamson & Leason, Cottage c Seward
Mandery, J. J., 158 South av
Oliver, Thomas (Est. of), 328 South av
Rochester Lime Co., 209 Main
Whitmore, Rauber & Vicinus, 279 South av
ROCKVILLE CENTER—Combs, G. D.
Langdon, Jos. B., Est. of
ROME—Fitch, H. B. (Est. of)
Wardwell Hardware Co.

RONDOUT—(See Kingston)
ROSENDALE—New York Cement Co.
Snyder, A. J. & Sons

SACKET HARBOR—Fitzgerald, John M.
Hovey, E. A.

SAG HARBOR—Bates, V. L.
East Hampton Lumber & Coal Co.

SALEM—Dillon, Jno. L.

SANDY HILL—Griffin Lumber Co.

Kenyon Lumber Co.

SARATOGA SPRINGS—Todd, E. R.

SAUGERTIES—Lewis, Ira

Saugerties Coal & Lumber Co.

SCHNECTADY—Devenpeck, L. W.

Moffett, Jno. J., 336 State

Rankin & Carey, 310 S Centre

Rosa, N. W., 223 Dock

Shear, A. & Co., 122 Wall

Van De Bogert, Johnson & Co., 120 Wall

Winne & McCain, Peek st

SEA CLIFF—Parlman, Lawrence E.

SENECA FALLS—Maier, Fred

Palmer, S. S.

SHERBURNE—Gaines, Thos. P.

SHERMAN—Sperry, E. & Son

SIDNEY—Sidney Flour & Feed Co.

SKANEATELES—Carver, Richard

Stuart, William G.

SOUTHAMPTON—Hampton Lumber Co.

Havens, George L. & Co.

SPRINGVILLE—Conger & Ware

STONY BROOK—Bayless, D. T. & Son

SUSPENSION BRIDGE—Haerberle Lumber Co.

SYRACUSE—Adamant Plaster Co.

Alford, Anson E. (Est. of), 103 N State

Artificial Paving Co., 1101 N State

Britton, Israel E., 186 E. Brighton av

Clarke, Geo. R., 541 S Clinton

National Wall Plaster Co., O. C. S. Bank bldg

Paragon Plaster Co. (Atlas Cement; also Lime, Brick, Plaster, etc.), 110 Warren

Salisbury, D. J., 206 St. Mark's av

Sullivan, C. J., 126 S Clinton

Syracuse Stoneware Co., 401 Fulton

TARRYTOWN—Dinkel & Jewell Co.

Husted, A. P.

Odell's, Jacob Sons

TICONDEROGA—Bascom, D. C.

TOMPKINSVILLE—(See New York City, Borough of Richmond)

TONAWANDA—Barnes, Henry, 14 N Canal

Collins, Cornelius

TOTTENVILLE—(See New York City, Borough of Richmond)

TROY—Cheney & Clextion, 558 River

Crandell, Knight & Reichard, 385 River

Grimm, Max, 157 River

Madden Lumber Co., 617 1st av

Rickerson & Co.

Smith, Milo, 527 River

Troy Fireproofing Co.

TULLY—Garrison, J. H.

UTICA—American Hard Wall Plaster Co.

Conley, Frank E. Stone Co.

Corrigan, Jos. N., 201 Steuben

Higgs, Samuel R.

McCann, Wm. H., 207 Rutger

VALLEY FALLS—Herrington & Co.

WALDEN—Dominick, D. C.
Hasbrouck & Sloan
Hill, C. W.
WALTON—Stimpson, Edgar W.
Wright, John
WARRENSBURG—Emerson, A. C. & Co.
WARWICK—Conkling & Strong
WATERFORD—Slade, George D.
WATERLOO—Clark, Edwin
Terwillinger, A. H. & Son, Locust n Main
WATERTOWN—Cleveland & Ogsbury
Johnson, S. W.
Jones, W. C.
Roblin & McKeon
White & Sullivan
WATERVLIET—Andrews, H. F. & Co.
Freeman, George H.
WATKINS—Durland, L. H., Son & Co.
WEST WINFIELD—Weels, George S.
WHITEHALL—Sullivan, J. H.
Witherbee Cash Store
WHITE PLAINS—Young, R. & Bros. Co.
WHITESTONE—(See New York City, Borough of Queens)
WHITESBORO—Raymer, C. F.
WILLIAMS BRIDGE—(See New York City)
WOLCOTT—Northrup, G. H. Lumber Co.
YONKERS—Lawrence Bros.
Thomas, Edwin L.
Yonkers Builders' Supply Co.

NORTH CAROLINA.

ASHEVILLE—Scott, George F. & Co.
Westall, W. H.
CHARLOTTE—Allen Hardware Co.
Carolina Mfg. Co.
Ward, W. W. & Son
Wearn, J. H. & Co.
Withers, B. F.
GREENSBORO—Odell Hardware Co.
Stone Building Supply Co.
HICKORY—Ingold, F. B.
Shuford Hardware Co.
LEXINGTON—Ward, E. M.
RALEIGH—Briggs, Thos. H. & Sons
N. C. Bldg. & Supply Co.
SALISBURY—Brown, J. Allen
McCubbins & Harrison
SANFORD—Sanford Sash & Blind Co.
SCOTLAND NECK—Biggs & Johnson
WILMINGTON—Jacobi, N. Hardware Co.
Moore's, Roger Sons & Co., 104 N Water
WINSTON SALEM—Brown-Rogers Co.
Fogle Bros.
Miller Bros. Co.

NORTH DAKOTA.

BEACH—Kranick, Thos.
DICKINSON—Walton & Davis
FARGO—Beidler & Robinson Lumber Co.
Birch, Stephen
Bowers Bros.
Chesley, James A.
GRAND FORKS—Dinnie Bros.
Pembina Portland Cement Co.
Robertson Lumber Co.
St. Hilaire Retail Lumber Co.
MINOT—Jacobson, C. & Co.
Teutsch, Eugene
WAHPETON—Rischar, John.

OHIO.

ADA—Ada Lumber Co.
AKRON—Akron Supply Co., 615 E Mill
Akron Wall Plaster Co., 1184 E Market
Bisbee, G. A., 227 S Main
Botzum Bros., 213 N Main
Crisp, Geo. & Son, 500 E Mill
Haury, John G., 705 E B'way
Kryder, L. & Sons, 112 S Main
Peterson & Wright, 933 S Main
ALLIANCE—Tollerton, I. & Son
ANDOVER—Wood Bros.
ASHLAND—Ashland Hardware Co.
Boren, William
Palmer, B. H. & Sons
ASHTABULA—Dudley, W. E.
Robinson, M. C.
Sbrock, S. B.
ATHENS—Athens Plasterers' & Masons' Supply Co.
BELLAIRE—Anderson & McGregor Co.
BELLEFONTAINE—Bellefontaine Stone & Lime Co.
Buckeye Portland Cement Co.
BOND HILL—Perine, G. Artificial Stone Co.
BOWLING GREEN—Snowflake Lime Co.
Star Supply Co.
BRIDGEPORT—Meister Bros.
Scott Lumber Co.
BUCYRUS—Smith, J. M. & Fitzer
BURTON—Crittenden, H. W. & Son
CADIZ—Long, E. M. & Sons (Wholesale)

CAMBRIDGE—Cambridge Hardware Co.
Carlisle & Grimes Co.
Orme-McMahon-Thompson Co.
Probascio, J. N.

CANTON—Barber, Wm. & Son, 320 S. Pledmont
Canton Feuee & Roofing Co.
Canton Hardware Co.
Canton Hollow Block Co., 1123 Tuscarawas

CAREY—Snyder, William H.

CARTHAGE—Wiehe, F. E.
Wunker, H. & Son

CHILLICOTHE—Sterling Planing Mill & Lumber Co.
Wissler Hardware Co.

CINCINNATI—Chrispin, Jas. G. Lime & Cement Co., 826 Reedy
Cincinnati Builders' Supply Co., Opera House Bldg.
Cincinnati Sewer Pipe Co., Norwood
Conkling, H. J., Gilbert av. n Court
Contractors' & Builders' Supply Co., 533 Reading road
Crawford & Co., 1007 Walnut
Farriu, M. B. Lumber Co., Winton pl
Fleming, J. P. & Co. (Sand & Gravel)
Funke, John (Sand & Gravel)
Geis, Wm. H. & Co. (Thoms Bldg.)
Hall, T. J. & Co. (Washed River Sand & Gravel)
Holley, C. E., Johnston bldg
Hurford & Pursell, Chamber of Commerce
Jacobs, Julius, 276 W. McMicken av
McCammon, L. H. Bros., Johnston bldg
McClure, T. F. & Sons Co., Perin bldg
McCracken, J. E., Supply Co., 629 E. Front
Metcalfe, L. A., 2433 Gilbert av
Moore-Couey Co., Union Trust bldg
Morton, O. P. & Co., 753 W. 6th
Moss, C. W., 233 McCullough
Mueller, John, Station R
Pachoud, A. L. & Co., 1037 Gilbert av
Patterson, Alex., 3036 W. 6th
Raff, Allan Ross, Mitchell bldg
Taylor, Chas. E., 1429 Cutter
Wess, G. J. & Son, Wintout pl
Wolf, Jos. H., 1961 Central av.

CIRCLEVILLE—McMullen, G. J. & Son

CLEVELAND—Cannell, Eli W., 8118 Brunner av.
Cleveland Builders' Supply Co., Garfield bldg
Cleveland & Pittsburg Coal Co.
Diamond Portland Cement Co. (Cement Mfrs.), Williamson bldg
Forrester Plaster Co., ft. East 49th
Gordon Sand & Gravel Co.
Herron-Brady Coal Co.
James, Ralph T., 1225 Euclid av.
Kelley Island Lime & Transport Co., Mercantile Bank Bldg.
King Sand & Gravel Co.
Lake Shore Sand & Gravel Co.
Lincoln Sand & Gravel Co.
Pittsburg & Buffalo Co.
Sandusky Portland Cement Co.
Shepard, J. J., 1078 River av.
Stowe-Fuller Co., Superior bldg

CLEVELAND—Caine, Chas. W.

CLYDE—Hurd, T. P. & Sons

COLLEGE CORNER—Miller, Frederick
Stewart, John H.

COLLINWOOD—Baldwin-Snell Co.
Collinwood Lumber Co.

COLUMBUS—Acme Paying Co., 408 W. State
American Sewer Pipe Co., 315 N. High
Carlisle, J. P., 450 W. Broad
Columbus Coal & Lime Co., 347 S. High
Columbus Contractors' Supply Co., The Rugery
Columbus Macadam Co., 319 Dublin av
Ferris Steam Mortar Works, 626 Galloway av
Ferris, Warren B., Columbus Savings & Trust
Rapp, Jacob & Co., 375 S. High Bldg.
Rock Plaster Mfg. Co., W. Broad & Hooking Valley R. R.
South Side Lumber Co., 1927 S. High.
Wassell Fire Brick Co., Columbus, O.

CONNEAUT—Pond Lumber Co.
Welden & Rabbitt

CORNING—Rodgers, D. M.

CUYAHOGA FALLS—Rates, A. R. & Co.

DAYTON—Dayton Fibre Plaster Co., Shawnee st.
Eichelberger, T. D. & Son, 5th & Pearl
Hawthorn, W. S., 222 S. William
Herr, E. H.
Keller & Co.
King, Chas. S., 1825 W. 3d
McGreedy & Ortman
Rice, Wall Plaster Co., W. Wash'n
Schaeffer & Gungnagel
Smart, A. F., 526 S. Wayne av
Star Coal & Cement Co.
Whitmore, Wm. M., Foundry & Monument av

DEFIANCE—Gorman, M. B., 500 Perry

DELFHOS—Fisher, A. L.

EAST LIVERPOOL—Hall, Robert Lumber Co.
Milligan Hdw. & Supply Co.
Nease, C. & Co.
Old Roman Wall Plaster Co.
Smith, J. T., Lumber Co.

EAST PALESTINE—Crowle, L. D.
Meek & McClure

EIFORT—Morgan & Horton

ELMWOOD PLACE—Elberg, F. W.

ELYRIA—Elyria Lumber & Coal Co.
Persons Lumber & Coal Co.

FAYETTE—Van Auker & Faher

FINDLAY—Morrisou, P. B. & Son
Taibox & McCall

FOREST—Lindsay, Wm.
Young, J. W. & T. M.

FOSTORIA—Buckeye Lime Co.
Seneca White Lime Co.

FRANKLIN—Anderson's, L. G. Sons

FREMONT—Gottro Bros.

GALION—Galion Lumber Co.

GALLIPOLIS—Rue, John C.

GENOA—Buckeye Lime Co.

GLENDAL—Devanney & Guttling
Freyhof, John D.

HAMILTON—Benninghofen, August
Diefenbach, Charles & Co.
Smith, Jos. W.
Straub, F. J. & Co.
Synmes & Symmes
Whitaker, J. R.

HARRISON—Perrine, Atwood
Vineent, W. C. & Son

HILLSBORO—Highland Lumber Co.
Whisler, Chas. F.

HUBBARD—C. & C. Coal Co.

IRONTON—Ironton Lumber Co.
Ironton Portland Cement Co.

JACKSON—Buckeye Mill & Lumber Co.

KENT—Hall, P. B.
Post, A. L.

KENTON—Callam, John & Co.
Robinson & Gage Lumber Co.

LANCASTER—Orman, J. B. & Bro.

LIMA—Fidelity Coal & Supply Co.
Hull, Laureus Lumber Co.
Moulton, H. S.
Rusher, F. P. Lumber Co.

LIMESTONE—Buckeye Lime Co.

LISBON—Armstrong, P. M. & Co.

LOCKLAND—Lockland Lumber Co.

LORAIN—Lorain Lumber & Mfg. Co.
South Lorain Coal Co.

MALINTA—Bensing, Bros.

MANSFIELD—Barton & Willis
Branyon, M. L. & Bro.
Rusk Bros.
Voegel Bros.

MARIETTA—Becker Mill Co.
Crescent Supply Co.

MARION—Implement Mfg. Co.
Lettler & Bland
Marion Lbr. & Coal Co.
Ohio Mining & Elevator Co.
Prendergast Lumber & Coal Co.

MARTINS FERRY—Rothermund, Henry

MARYSVILLE—Robinson & Curry Co.

MASSILLON—Atwater, D. & Son
Clements, A. J.
Halter, Charles L.
Massillon Sand & Stone Co.

MEDINA—Wood Co.

MIDDLEFIELD—Patchin, C. P.

MIDDLETOWN—Ashworth, Gus.
Hatfield Coal Co.
Kemp, F. M. & Sons

MILFORD—Buckingham & Hair

MOUNT GILEAD—Hickson, Joseph
Mt. Gilead Lumber Co.

MOUNT HEALTHY—Pink, Jacob

MOUNT VERNON—Sanderson & McCreary (Also Slate)

NAPOLEON—Napoleon Pulp Plaster Co.
Thlesen & Hildred
Ward, T. J.

NEWARK—Fee, F. F.
Newark Lumber Co.
Norris, H. O.
Pratt-Kirk Co.
Smith, P. & Sons, Lumber Co.

NEW COMERTOWN—Novelty Brick Co.

NILES—Eaton, J. W.
Union Roofing & Supply Co.

NORWALK—French Lumber Co.
Norwalk Stone & Brick Co.

OVERLIN—Cole, S. M.
Oberlin Coal, Lumber & Milling Co.

PAINESVILLE—King, S. R. Co.

PAULDING—Paulding Lumber Co.

PIQUA—Huber, A. A.
Statler, D. C. Co.

PLYMOUTH—Nimmons & Nimmons

PORTSMOUTH—Gilson, J. B. (Est.)
Kaps, J.
Leet, H. & Co.

RAVENNA—Morgan, E. E.
Bennett, J. A.

ST. CLAIRSVILLE—Carlisle, John

ST. PARIS—Kizer & Long

SALEM—Campbell, C. C. & Son
Salem Hardware Co.
Salem Lumber Co.
Satterthwait, Wm. D.

SANDUSKY—Lake Erie Sand Co.
Sandusky Portland Cement Co.
Sandusky Sand Co.
Schoepfle Mfg. & Lumber Co.

SEBRING—Sebring Lumber Co.

SHELBY—Morris, W. H.
Wiggins & Haun
Will & Myers

SIDNEY—Heiser, Jno.

SPRINGFIELD—Goode & Hayward
Houek Brick Co.
Jenkins, Jno. W.
Mills Bros., 107 S. Limestone
Moore's Lime Co., c. Linden av & Wash'n
Rawlins, A. M.
Springfield Coal & Ice Co., 93 S. Limestone

STEEBENVILLE—Alexander, W. J.
McFeely Bros.
Ohio Valley Ice & Storage Co.

TIFFIN—McCollum Lime Co.
Weot Bros. & Co.

TOLEDO—Acme Coal, Wood & Builders' Supply
Buckeye Builders' Supply Co.
Doherty & Co., The Spitzer
Knopp Bros. Co.
Ohio Builders' Supply Co.
Ohio Lime Co.
Ohio & Western Lime Co.
Toledo Brick Supply Co. (Brick)
Toledo Builders' Supply Co., Spitzer bldg

TROY—Francis, Clemm & Co.
Pearson, W. A.

UHRICHSVILLE—Pearch, Jacob
Romig, P. A.

UPPER SANDUSKY—Gipson, W. A.

URBANA—Anderson & Heap

VAN WERT—Rupright Bros.

WAPAKONETA—Snyder & Co.

WARREN—Cereal Supply Co.
Elastic Pulp Plaster Co.
Greenwood & Co.
Murray, Thos. R.
Western Reserve Lumber Co.

WASHINGTON—Coffman, H. G. & Co.

WAUSEON—Williams, H. H. & Co.

WELLSVILLE—Augenbaugh, H. C.

WEST LIBERTY—Feathers, George

WILLOUGHBY—Hill, A. T. & Co.
Jenkins, C. C.

WILMINGTON—Fisher Mfg. & Fuel Co.

WOOSTER—Branstetter, Andrew
Gray & Son

XENIA—Thornhill Bros.

YOUNGSTOWN—Buehrle, German B.
Concrete Stone & Sand Co. (Sand & Concrete)
Jones, R. D. Coal Co.
Kinder, L. & Co.
Mahoning Builders' Supply Co.
Mauser, Christ
Perkins Bros.
Sharp Bros. Co.
Youngstown Ice Co.

ZANESVILLE—Adams Bros.
Harris Bros., 28 N. 2d
Moorehead, H. D., 201 S. 6th
Townsend, Wm. C. & Co., 7 Main

OKLAHOMA TERRITORY.

OKLAHOMA—De Bolt, A. M., 2 Reno av
Garrison, J. B.
Green, W. W.

OREGON.

BAKER CITY—Stoddard Bros. Co.

EUGENE—Roney, L. N.

GRANTS PASS—Hair, Riddle Hdw. Co.

PORTLAND—Adamant Co.
Balfour, Guthrie & Co., Concord bldg
Beach, F. E. & Co., 135 1st
Capron, Albert J.
Crowe, F. T. & Co. (Complete Line), 252 Oak
Hennessey, J. D. & Co.
Ireland, F. M.
McCracken, J. Co., 231 Pine
Nottingham & Co.
Oregon Lime & Plaster Co.
Rate, G. B. & Co., 184 Madison
Timms, Cress & Co.
Versteeg Bros., Fernwood add.
Waterhouse & Price Co.
Western Storage & Transfer Co., 321 Hawthorne av

SALEM—Burton, A. A.
Murphy, J. E.

THE DALLES—Glenn, Hugh & Co.
Peters, Jos. T. & Co.
Wasco Warehouse Milling Co.

PENNSYLVANIA.

ALLEGHENY—Corde, George, Manhattan & Duncan & Porter Co., 310 Morgan Nixon Kuox, Strouss & Bragdon, Juniata & Prehle Murray Bros., 318 Sandusky av. Patterson Coal & Supply Co., 1222 Grant av.

ALLENTOWN—Butz, Jas. F., Gordon & Jordan Feifel, Geo. J., 540 Turner Kuder, Millard A., 330 Gordon Ochs, Milton, T. J.

ALTOONA—Altoona Concrete Construction & Canan Building Supply Co. Supply Co. Canan-Knox Supply Co., 18th & Margaret Halton, John (Estate of) Vipond, John S. Coal Co.

AMBLER—Craft, J. Watson

ARCHBALD—O'Boyle, F. J. Bevels, Henry

ARDMORE—Smedley & Mehl

ASHLAND—Buck, Peter E. & Sons

ATHENS—Macafee, Dana J. Myer, C. M.

AVONDALE—Williamson, Frank & Co.

BANGOR—Bangor Lumber Mfg. Co. Houck, Edward J. Wise, F. S. & Co.

BATH—Cressman, A. H.

BEAVER—Anderson & Cook

BEAVER FALLS—Brierly, Frank F. Davidson, W. J. Pearson & Son Zimmerman, R. E.

BELLEFONTE—McCalmont & Co.

BELLE VERNON—Belle Vernon Saw & Planing Mill Co.

BERWYN—Fritz, W. H.

BETHLEHEM—Stahr, George F.

BLAIRSVILLE—Graft Coal Co. Ray, S. & L. S. W.

BLOOMSBURG—Paragon Plaster & Supply Co.

BLOSSBURG—Clark, Geo. D.

BLUE BELL—De Prefontaine, Chas.

BOSTON—Harper, C. M. C.

BRADDOCK—Braddock Hdw. & Supply Co. Braddock Lumber Co. Crown Wall Plaster Co. Dowler, E. R. Keller & Milliken McCrady Bros. Co., Braddock, Pa. Stockdale Coal & Supply Co.

BRADFORD—Fischer, L. A. & Co. Robison, Winfred S. Stout & Holden

BRIDGEPORT—Blair, Andrew March's, I. F. Sons

BRISTOL—Leedom, W. F. Pierce, E. M.

BROOKVILLE—McKnight, Son & Co.

BROWNSVILLE—Wright's, T. S. Sons

BRYN MAWR—Supple, I. H. & Co.

BUTLER—Klinger, H. J. & Co. Niggel, J. & Son

CAMBRIDGE SPRINGS—Bolard Bros.

CANONSBURG—Elliott, W. J. Munnell, Samuel

CARBONDALE—Cavanagh, C. Mills Bros.

CARLISLE—Bixler, J. P. & Sons Goodyear Bros.

CARNDIGIE—Foster, G. A.

CATASAUQUA—Deily, G. B. F. Schneller, C. W. Williams, Geo. H.

CHAMBERSBURG—Coyle & Diehl Stover & Co.

CHARLEROI—Mounster, R. C.

CHESTER—Bunting, D. S. Co. Chester Lumber & Coal Co. McDowell, W. J. & Bro. Stevenson Co. Wood, L. N. & Bro.

CHRISTIANA—Cooper, Mark P.

CLEARFIELD—Johnson, F. & Bro. Standard Brick & Tile Co.

COATESVILLE—Lukens, Nathan Pownall Hardware Co.

COLUMBIA—Columbia Brick Co. Wilson, Hiram (Est. of)

CONNELLSVILLE—Fayette Lumber Co. Standard Lime & Stone Co.

CONSHOHOCKEN—Beatty, Jas., Sr. Jones, Wm. Potts

CORAOOLIS—Watson, T. F. & Bro.

CORRY—Barlow Hdw. Co. (Ltd.)

CRAFTON—Crafton Builders' Supply Co.

DANVILLE—Cole, J. H. Welliver Hardware Co.

DARBY—Darby Mortar Co. Thurston, Oscar

DELTA—Jones, Mrs. Asa Stubbs, J. Howard (Lime)

DEVON—Lobb, C. A. & Sons

DOWNINGTOWN—Griffith & Wollerton

DOYLESTOWN—Barrett, James Randall, W. H.

DUBOIS—DuBois, Jno. D. Hibner-Hoover Hardware Co.

EASTON—Easton Lime Co. Osterstock, J. S. & Co.

EAST STROUDSBURG—East Stroudsburg Lumber Co.

EMAUS—Brown, Chas. D. Fuhr, W. H. Jarrett, H. W.

EMLENTON—Sloan, U.

EMSWORTH—Little, J. M.

EPHRATA—Blitzer, R. R.

ERIE—Erie Hard Wall Plaster Co., ft of French McCarty, Dennis, 6th & Wayne McCarty, Jas. Saltzman, R. J. Thayer, O. C. & Son, Chestnut & Railroad

EVANS CITY—Burry & Markel

EVERETT—Cottage Planing Mill Co.

FERNWOOD—Hoopes, Rufus O.

FLEETWOOD—Schaeffer, Wanner & Co.

FRANKLIN—Howard, W. D. King, George S.

GALETON—Eimer Hdw. Co.

GIRARDVILLE—Becker, E. K.

GLENOLDEN—Mitchell, J. E.

GREENVILLE—Emery, H. H. Livingston & Moyer Packard Hdw. Co.

HAMBURG—Lenhart, I. S.

HANOVER—Schmuck Bros.

HARRISBURG—Coover, H. J., 935 N 3d Gerlock & Lutz, 10th & Mulberry Kelley, H. M. & Co. Marks, D. B., 2d ab Seneca Rhoads, C. H. & Co., c 7th & Briggs Rhoads, J. E., Cowden & Forster

HARRISON VALLEY—Parks, J. M.

HAZLETON—Bright, J. C. & Co. Frederick, S. Y. Hazleton Machinery & Supply Co. Schaub, Justus Shaffer, Aaron

HOLLIDAYSBURG—Condron, J. B. Law, John H.

HOMESTEAD—Hall, H. & Co.

HONESDALE—Penwarden, Wm.

HOOVERVILLE—Myers, H. J. & W. A.

HUMMELSTOWN—Engle, Jno. S. Engle & Longenecker Holler, Chas.

HUNTINGDON—Miller, C. H. Hdw. Co. Strickler & Watson

INDIANA—Stewart, J. M. & Co.

IRWIN—Fox, L. C.

JEANNETTE—Sloan, W. S.

JENKINTOWN—Smith & Schively

JOHNSTOWN—Cambria Concrete Construction Johnstown Planing Mill Co. & Supply Co. Jones, R. D. Thomas-Kinzev Lumber Co. Walters, John W.

KINGSTON—Edwards & Co. Roat, A. J.

KITTANNING—McConnell & Luker McCullough, James, Jr.

KNOXVILLE—Fisk, Geo. W.

KUTZTOWN—Heffner, Jas. S.

LANCASTER—Galbraith, Jefferson G. Marshall & Rengier, 9 S Queen Pontz, Adam Reilly Bros. & Raub, 40 N Queen Sener, G. & Son Steinmann Hardware Co., 26 W King

LANSDALE—Brady, James Jenkins, G. & Co.

LANSDOWNE—Levis, G. H.

LATROBE—Doherty, Phillip H. McFeely Brick Co.

LEBANON—Granitine Wall Plaster Co. Krause, George Hardware Co. Unger Hardware Co.

LEHIGHTON—Lchigh Coal & Hdw. Co.

LEWISBURG—Dreisbach's, C. Sons Proctor, G. W. & Son

LEWISTOWN—Franciscus, F. G. (Est. of)

LINWOOD STATION—Wood, N. L. & Bros.

LOCK HAVEN—Candor, A. C. & Co. Hopkins, A. C.

McKEESPORT—Bowman Bros. Co., Inc. Bowman & Wilson Hartman Hdw. Co. Patterson, Jas. E. Serena, John & Co.

McKEES ROCKS—Young & Schmitt

MACUNGIE—Singmaster, J. & Co.

MAHANAY CITY—Ball, H.

MANSFIELD—Cleveland, A. Rose & McDowell

MAUCH CHUNK—Neast, Chas. & Co.

MEADVILLE—Harris, C. P. Smith, L. F. Lumber Co. Stolz, Charles

MECHANICSBURG—Martln, C. & Son

MEDIA—Elliott, M. & Co. Willamson, C. F.

MERCER—McKean, A. J. Mercer Milling & Lumber Co. Newell, Alex. Zabniser, M. C.

MIFFLIN—Mauheck & Nelson

MONONGAHELA—McCurdy, T. S. & Son Yobe Bros.

MONROETON—Cranmer & Musselman

MONTROSE—Cooley & Son

MOORES—Moore, G. W. & Co.

MOUNT MOSCOW—Loveland, J. E.

MOUNT CARMEL—Keefer, Geo. H.

MOUNT JOY—Grissinger, J. R. Schock, Clarence

MOUNT PLEASANT—Husband Lumber Co. Smith, W. H. & Son Stevensou, J. A. & Co.

MYERSTOWN—Walborn, Edwin Z.

NEW BETHLEHEM—Anderson Hdw. Co. Andrews, C. E. Lumber Co.

NEW BRIGHTON—Martsolf Brs. Martsolf, George W.

NEW CASTLE—Balph, McFarland & Co. Kline Lumber & Construction Co. Marshall Bros. Patterson & Sample

NEW FREEDOM—Bahn, Walter D. & Co.

NEW KENSINGTON—Klingensmith, H. A. & McKean, J. S. & Sons Son

NEWPORT—Jones, Alvin

NEWTOWN—Worstell Bros. & Co.

NORRISTOWN—Evans, B. & Bro. Quillman, B. Scheetz, R.

NORTH WALES—Lelster, Jacob H.

OGONTZ—Nagle, Louis A. & Co.

OIL CITY—Borland & Diamond Lumber Co. Caldwell Lumber Co. Kern & Co. United Lumber & Coal Co. (Ltd.)

OLYPHANT—Lally, Jas. H.

OXFORD—Chandler, D. W. & Co. Dickey, S. R. & Co.

PARKESBURG—Worrell, Jos.

PEN ARGYL—Correll, R. S. Fitzgerald, Speer Co.

PENLLYN—Davis, L. Y.

PERRYOPOLIS—Herwick, A. C.

PETERSBURG—Stryker, Sam'l L.

PHILADELPHIA—Alpha Portland Cement Co., Harrison bldg Ambler, H. C. Co. (Inc.), 3444 N 16th American Cement Co. (Cement Mfrs.), Penn. bldg

ATLAS CEMENT CO. (Mfrs.), 114 N Broad. (See adv. index, end of book) Bihlmaier, C. H. Co., 2736 N Broad Bonneville Portland Cement Co. (Cement Mfrs.), Land Title bldg Borgner Cement Co., 234 N 23d Bowditch, Walter, 205 E Haynes, Gtn Bradley, Walter T. Co., 9th, below Girard av Budd & Co., 1021 Passy'k av Clausep, J. R. & Son, 2000 Market Clay Products Supply Co., Real Estate Trust Clymer, Jacob, c Marshall & Berks bldg

COPLAY CEMENT MFG. CO. (Cement Mfrs.), Penn bldg. (See adv. index, end of book) Cox's, C. A. Sons, 2139 N American Davis, Paul A., Jr., 136 N Water Dobbs, S. B., Bailey bldg Dougherty, Cornelius, 1207 Passyunk av Ebert, Morris, 119 S 4th Edison Portland Cement Co. (Cement Mfrs.), Real Estate Trust bldg Evans, Wm. & Son, 56 N Front Fairlamb, P. H. & Co., 115 S 30th Fitzgerald, John J. & Co., Penn Square bldg France, David Co., Tasker St. Wharf Fredericks, Chas. C., Wayne av, c Reading Ry Gtn

FRENCH, SAMUEL H. & CO., York av. 4th & Callowhill. (See adv. index, end of book) Gabell, W. T., 2405 Sedgley Garrett, Jas. & Co., 1432 S Penn sq Gilbert, Harry W., P. & R. R. R. & Gtn. av Hartranft, Wm. G. Cement Co., Real Estate Trust bldg Housekeeper, Benj. (Lime), 1526 N American Kerbaugh Lime & Coal Co., Wash'n av c 15th Keystone Plaster Co. (Adamant Wall Plaster), 16 S Broad Knickerbocker Lime Co. (Inc.), 366 N 24th Krause, Wm. & Sons (Inc.), 1621 N 5th Kugler, Clarence B., Jr. & Co., 112 N Kyle, Geo., Island rd c Grays av Broad Lawrence Cement Co. (Cement Mfrs.), Harrison bldg Lesley & Trinkle Co., Penna bldg Lukens & Yerkes, Commonwealth bldg

Lyster Supply Co., 30th & Walnut
McClellan, H. A. & Bro., Moyamensing av
Manayunk Coal & Lime Co., Manayunk
Mannheimer Portland Cement Co., 302 Wal-
Martin, Hugh T., 1133 Winton
Meng, Anthony & Co., 109 S Front
Peoples Bros., 25th & Callowhill
Phoenix Cement Co. (Cement Mfrs.), 929
Chestnut

Prettyman, Harry D., Land Title bldg
Quaker City Mortar Co., 50 N 23d
Robinson, Thos. & Co., Real Estate Trust
Rutau, John W., Heed bldg
Sergeant, Jos. & A. Co., 617 S 20th
Siun, Geo. A., 4430 Penn
Smith & Davis Co., Weightman bldg
Smith, Edwin A. Son (Lime), 1017 Frank-
Tyson, Jacob L., 900 Jeff
Vollmer, P. S., 112 N Broad
Vulcanite Portland Cement Co., Land Title
bldg

Warner, Chas. Co. (Wholesale), Land Title
Williamson, Frank 2202 Chestnut bldg

PHOENIXVILLE—Benjamin, N. H. Co.
Morris, J. Harry

PITTSBURG—Anderson, Jas. B., 413 4th av
Birmingham Supply Co., S 17th & Muriel
Blair, Reed F. & Co. (Portland Cement,
Fire & Silica Brick, etc.), Frick bldg
Brown, Andrew J., 6414 Frankstown av
Davison, J. K. & Bro., 42d & Davison
Diehl's, Adam Sons, 107 S 18th
Hayes Coal & Supply Co., Maderia & P.
R. R.

Heppenstall & Marquis, 32d & Liberty av
Houston Bros. Co., 32d & P. R. R.
Jiles, Jas. Co., Liberty av & 38th st
Keller Bros., 6347 Statton
Kennedy, D. J. & Co., Arrott bldg
Lane, Thos. Co., Lewis bldg
Langton, A. G. & T. M., 526 4th av
Lanz, Geo. & Co., S 22d & Mary
Leggett, Wm. T. & Co., Farmers' B'k bldg
McKallip, C. & Co. (Dyckerhoff & Star
Stettin Portland Cements, Domestic Ce-
ments, Brick, Lime, Plaster, etc.), Fulton
bldg

McLain, E. S. & Son (Wyandotte Cement),
Park bldg

Miller, Mason & Co. (Ltd.), Park bldg
Miller & Coulson, Diamond Bank bldg
Morrison, D. & Sons, 100 Lambert
Mnnhall, R. J. Lumber Co., 22d & Wharton
National Mortar & Supply Co., McCance bldg
Nicola Builders' Supply Co., Farmers' Bank
Pittsburg-Buffalo Co., Frick bldg
Pope Cement & Brick Co. (Alpha Cement,
etc.), 421 Wood

Williams, W. H. & Co., 5th
Winfield Sand Co., 421 Wood

PITTSTON—Dershimer & Griffen

Patterson, J. E. & Co.

PORTLAND—Miller, J. I.

POTTSTOWN—Bailey, M. W.

Fegely, J. & Son
Hallman, Wm.
Halteman, J. L.
Metz & Leaf
Nagle, G. W. & Co.
Ryon, T. C.

POTTSVILLE—Bright & Co.

Thompson, L. C.

PUNXSUTAWNEY—Brown Hardware Co.

Meredith, W. R.
Robinson Hardware Co.

QUAKERTOWN—Achey, Benj.

Walp, C. H. & Bro.

READING—Ahrens, H. E. & Bro.

Bard Hardware Co.

Bright & Co., 504 Penn

Gring Bros., 6th & Canal

Miller, Daniel

Parker, W. H.

Reading Lime Co.

Reading Lumber Co.

Roth, A. L., 45 S 7th

RIDGWAY—Hyde-Murphy Co.

Hyde, W. H. & Co.

ROCHESTER—Miller, Wm. & Sons (Inc.)

ROYERSFORD—Buckwalter, J. A.

SALTSBURG—Davis Bros. & Co.

SCRANTON—Benore, John

Empire Limestone Co. (Gravel)

Hunt, Alex. E.

Keller, Luther, 813 W Lack, av

Maloney Oil & Mfg. Co.

Mason & Snowden Lumber Co.

Paragon Plaster & Supply Co., 1500 Albright

Washburn, Williams & Co.

SEWICKLEY—Hays, Alden F.

SHARON—Wallis & Carley

Wishart, A. & Son Co.

SHENANDOAH—Glenn & O'Hearn

Swalm, Allen H.

SHIPPENSBURG—Hawk, H. R. (Est. of)

SLATINGTON—Dettmer & Handwerk

Fritzinger, William A.

SOMERSET—Fink, Peter

SOUDERTON—Hunsberger, S. D.

Moyer & Son

Souder & Crouthamel

SOUTH BETHLEHEM—Laufer, Milton

SOUTH SHARON—Anderson Bros.

SPRING CITY—Davis & Mowrey

STBELTON—Couffer & Sultzeberger

Hess, John

SUNBURY—Sunbury Supply Co.

Whitmer, William & Sons Co.

SUSQUEHANNA—Millane, M.

SWARTHMORE—Ogden, C. G. & Co.

TAMAQUA—Weaver, Daniel & Son

THURLOW—(See Chester)

TITUSVILLE—Edwards, H. B.

Hale, W. J.

Shank, I. L.

TOWANDA—Myer, Berlin F.

TROY—Snedeker & Mitchell

Spalding, H. M. & Son

TRUMANSBURG—Hazard, William

TUNKHANNOCK—Billings, Paul & Co.

TYRONE—American Lime & Stone Co.

Beyer, F. D. & Co.

Franciscus Hardware Co.

Grazier Bros. & Stone

UNION CITY—Union Coal & Supply Co.

VANDERGRIFF—Hunger, Geo. A.

Kimmel, J. G.

WARREN—Pickett Hardware Co.

WASHINGTON—Hart, John B.

Paul & Post

Swart & Bailey

WAYNE—Connor, I. W. & Co.

WAYNESBORO—Gilbert & Gordon

Hess, Daniel W.

Newcomer, J. W. & Co.

WEST CHESTER—Bennett & Lear

Hoopes, Ralston R.

Sharpless, S. E. Lumber Co.

WESTFIELD—Tremain, G. H.

WEST GROVE—Chambers, S. K. & Bros.

WILKES-BARRE—Goff Lumber Co.

Morgan's, Charles Sons

National Supply Co.

Patterson, James E. & Co., 135 N Canal

Penna. Supply Co., 60 S Canal

Phelps, Lewis & Bennett Co.

Ritter, S. V.

Schmitt, John A. Sons

Wilke-Barre Masons' Supply Co.

WILKINSBURG—Brown, Hutchison Co.

WILLIAMSPORT—Brown, Clark & Howe

Diamond Wall Cement Co.

Kline & Co.

Stuempfle's, David Sons

YARDLEY—Aaron & Rich

YORK—Detwiler Sand Co.

Frey & Thomas

Kottkamp, Hy. Y.

McClellan & Gotwalt Co.

Reichley & Co. (estate)

Small, P. A. & S.

Spangler, E. W., Jr.

York Valley Lime Co.

Zinn Bros.

RHODE ISLAND

BRISTOL—Wardwell Lumber Co.

EAST PROVIDENCE—Halliday Bros.

NEWPORT—Hammet, A. & H. G., 321 Thamee

PAWTUCKET—City Coal Co.

Cottrell, J. T. Co.

Newell Coal & Lumber Co.

Olney & Payne Bros.

PROVIDENCE—Goff, James C. Co., 31 Point

Harris, Wm. M., Jr., 546 Atwells

McKendall, F'k D.

Manchester & Hudson, 55 Point

Olneyville Hay & Grain Co.

Whaley, J. A. & Co., 39 Smith

RIVER POINT—Potter, H. W. & Son

WAKEFIELD—Wakefield Lumber Co.

WESTERLY—Babcock & Wilcox

Kenyon, H. T. & Co.

Maxon & Co.

Segar, S. B.

Sherman, Robert A. & Sons Co.

WOONSOCKET—City Lumber Co., River st

Woonsocket Lumber Co., 189 N Main

SOUTH CAROLINA.

ANDERSON—Anderson, O. D.

Brissey, W. L.

White & Co.

BEAUFORT—Christensen, N. & Son

CHARLESTON—Anderson Lumber Co. (Brick,
etc.), West End Broad

Bird, Wm. M. & Co., 205 E Bay

Carolina Portland Cement Co., 194 E Bay

Hughes, Thos., 82 Mary

Johnson, Wm. & Co., E end Lawrence

Southeastern Lime & Cement Co.

COLUMBIA—Brown, C. O. & Bro.

Lorick & Lawrence

GAFFNEY—Carroll & Co.

GREENVILLE—Gower Supply Co.

GREENWOOD—Simmons, J. T.

NEWBERRY—Pool, T. C.

SPARTANBURG—Ezell, S. B.

SUMTER—Harby & Co.

SOUTH DAKOTA.

CHAMBERLAIN—Anderson Lumber Co.

MITCHELL—Davis & Daniels Co.

SIOUX FALLS—Sioux Falls Lumber Co.

Ross, H. W. Lumber Co.

Tuthill, J. W. Lumber Co.

WATERTOWN—Stover Cement Construction Co.

Watertown Cement Products Co.

YANKTON—Loonan Lumber Co.

Western Portland Cement Co.

TENNESSEE.

BRISTOL—Adams Bros. Co. (Inc.)

Mitchell, Powers Hardware Co.

Morton, Lewis & Wiley Lumber Co.

CHATTANOOGA—Buquo Lime Co.

Gager Lime & Mfg. Co., 203 Carter

Howard Hydraulic Cement Co., 10 W 8th

Howard & Park Brick Co.

Magill Hdw. Co., 729 Market

Wilson, T. T., 1033 Market

CLARKSVILLE—Hurst, Boillin & Co.

Wilson, G. B. & Co.

HARRIMAN—Dame Mantel Co.

HUMBOLDT—Bailey, Austin & Son

JACKSON—City Lumber Co.

Gardner, O. G. Lumber

Macon Lumber Co.

JOHNSON CITY—Martin, Jas. A.

KNOXVILLE—Chandler & Co.

Sanford, Chamberlain & Albers Co.

Sullins, C. C.

Tenn. Lime & Sand Co.

MEMPHIS—Chase, W. J. & Co., 163 Main

Denie, J. A. Sons, 82 S Front

Kavanaugh Sand Co., 20 Madison

Wright Lime & Cement Co., 88 Hernando

MORRISTOWN—Baylor, C. E. & Co.

MURFREESBORO—Earthman, W. B. & Co.

Williams & Bro.

NASHVILLE—Cohn & Goldberg

Hardison, W. T. & Co., 111 S. Front

Hoover & Co., 700 N Cherry

Love, Boyd & Co.

Norvell & Wallace, 609 Broad

Ransom, J. B. & Co., Durham e N. O. & St.

TULLAHOMA—Lawson, T. D. L. Ry.

TEXAS.

ALBANY—Rockwell Bros. & Co.

AMARILLO—Linn Bros.

AUSTIN—Austin White Lime Co.

Tips, Walter

BASTROP—Wilbarger, J. L. & Co.

BEAUMONT—Beaumont Bldrs.' Supply Co.

Texas Bldrs.' Supply Co.

Wilson, E. L. Hdw. Co.

BEEVILLE—Kohler & Haldenfels

CISCO—Burton-Lingo Co.

CLEBURNE—Burton-Lingo Co.

Wilson, H. S.

COLORADO—Burton-Lingo Co.

Roe, A. J.

CORPUS CHRISTI—Sldbury Lumber Co.

CORSICANA—Whitselle Brick & Lumber Co.

DALLAS—Griffiths, T. W. & Co., 103 N Lamar

Milby & Dow, 211 Linz bldg

Moore & Co.

DENISON—Hanna, Patrick

Lingo-Leeper Lumber Co.

DENTON—Wilson, J. B. & Co.

EL PASO—Bassett, O. T. & Co.

Courchesne, A.

El Paso Lumber Co.

Sante Fe Fuel Co.

FORT WORTH—Armstrong, J. H. & Co.

Burton-Lingo Co. (Ltd.)

Cameron, Wm. & Co.

Darnell Lbr. Co.

Nash Hardware Co.

Owens, G. W. Lumber Co.

Roe, A. J.

Smith, Cicero Lbr. Co.

Tims, Bowden

Waples-Painter Co.

GALVESTON—Fowler & McVitie, Cotton Ex-
change bldg

Parr, Wm. &

HALLETTSVILLE—Hill, T. A. & Son
 HILLSBORO—Lyon, O. T. & Son
 HOUSTON—Barthold & Casey
 Brown-McLaughlin Co.
 Burke, E. M. (Estate of)
 Heitmann, F. W. & Co.
 Humpbreyville, W. E.
 Macatee, W. L. & Sons
 Street & Graves
 KERRVILLE—Schreiner, Chas. Co.
 LAREDO—Deutz Bros.
 Johnson & Yaeger
 LLANO—Llano Lumber Co.
 LULING—Luling Lumber Co.
 NAVASOTA—Youens, J. & Co.
 ORANGE—Lutcher & Moore
 Miller, L.
 Sabine Supply Co.
 PALESTINE—Broyles, W. & G. D.
 PARIS—Bettes, H. S. Hdw. Co.
 Carter Brick Co.
 Ward, W. B. Lumber Co.
 SAN ANTONIO—Alamo Cement Co.
 Dielman, Jno. C.
 SCHULENBURG—Schacfer, H. B.
 SHERMAN—Fielder, A. A.
 Lyon, O. T. & Son
 SWEET WATER—Wilkerson, O. L.
 TEMPLE—Campbell, C. M. & Sons
 Hollingsworth, Joseph
 TERRELL—Muckleroy & Dew
 TEXARKANA—Chatfield & Bahrman
 Hoffman Hdw. Co.
 Stevens, A. M.
 TYLER—Brazelton & Johnson
 Lotta, J. G.
 VICTORIA—Bailey Mills Co.
 Goldman, A.
 Levi, A. & Co.
 WACO—Brazelton & Johnson
 Cameron, William & Co.
 Nasb, Robinson & Co., 908 Austin av
 Strauss, E.
 WILLS POINT—Matthews, N. A. Lumber Co.

UTAH.

OGDEN—Bucher, L. J.
 Eccles Lumber Co.
 Lowe, Geo. A. & Co.
 PROVO CITY—Ward, E. J. & Sons
 SALT LAKE CITY—Holman, Payne & Co.
 Langton Lime & Cement Co., 341 S State
 Morris, Elias & Sons Co.
 Morrison, Merrill & Co., 241 N 3d, W
 Portland Cement Co. of Utah (Cement
 Mfrs.), 8th S & 5th W
 SPANISH FORK—Jex Lumber Co.

VERMONT.

BELLOWS FALLS—Bellows Falls Pulp Plaster
 Co.
 BENNINGTON—Loring, J. H. & Co., 113 Depot
 BRATTLEBORO—Mellen, J. Edgar
 Robbins & Cowles
 BURLINGTON—Burlington Grocery Co.
 FAIR HAVEN—Reed Coal Co.
 MIDDLEBURY—Chapman, T. M. & Co.
 MONTPELIER—Abbott & Bailey
 Hyde, E. D.
 NEWPORT—MacDiarmid & Co.
 NORTH BENNINGTON—Hawks, A. W.
 POULTNEY—Bixby, E. M.
 Ripley Lbr. Co.
 Sherman, S. & Son
 RANDOLPH—Lamson, J. H. & Sons
 Tewksbury, E. W. & Co.
 RUTLAND—Burditt Bros.
 Curtis, S. P. & Son
 Landon, Walter C. & Co.
 ST. ALBANS—Bostwick Bros.
 Fonda, W. B.
 ST. JOHNSBURY—Caldbeck, M. J. & Son
 Ide, E. T. & H. K.

VIRGINIA.

ALEXANDRIA—Burrough, Thos. F., Son & Co
 Robinson, Geo. H. Sons
 Smoot, W. A. & Son
 Smoot & Co.
 BERKLEY—Cuthrell, John
 BERRYVILLE—Baker, H. W.
 Phillips, Wm. Bros.
 CHARLOTTESVILLE—Wood, Vest & Co.
 CHASE CITY—Robert, B. A. & Son
 DANVILLE—Fitzgerald, N. A. & T. J.
 Swanson Bros. & Co.
 FREDERICKSBURG—Cole, E. D.
 HAMPTON—Born, L.
 Hefflinger Co.
 Hudgins Bros.
 HARRISONBURG—Snell, J. M. G. Co. (Inc.)

LYNCHBURG—Adams Bros. Payne's Co.
 Hutter, C. S.
 Williams & Barnett
 MANASSAS—Tillett, John R.
 NEWPORT NEWS—Benson, Phillips & Co.
 Poarch & So.
 Richardson, Robt. E., Va. av & 31st
 Weaver Bros., Warwick av
 NORFOLK—Batchelder & Collins
 Bayne, C. M. & Co.
 Builders' Supply Co.
 Gamage, J. W. & Co. (Domestic & Imported
 Cements, Brick, Lime, etc.)
 Gamage, Jno. O., Woodside's Wharf
 General Supply Co., Brooke av nr Boush
 Grinnan, John C., 173 Main
 Jones & Co.
 Nottingham & Wrenn Co., 39 Granby
 PETERSBURG—Friend & Co.
 Marks, L. L. Lumber & Supply Co.
 PHOEBUS—Tennis, Edgar M.
 PORTSMOUTH—Corprew, Anthony A.
 Hawks-Maupin Co.
 Lindsay & Co.
 Oast, Samuel P.
 RICHLANDS—Fugate, H. Co.
 RICHMOND—Baldwin & Brown, 1557 E Main
 Hawes, S. H. & Co., 1801 E Cary
 Lee, A. S. & Son, 28th c Dock
 Moore Lime Co., ft. of 17th
 Moore, Warner & Co., 17th & Dock
 Sitterding-Carneal-Davis Co.
 Williams Slate Co., 18 S 9th
 ROANOKE—Adams, Payne & Gleaves
 Catogni Bros., Campbell av c 3d, S E
 Central Mfg. Co., Shenandoab av c 2d, N W
 Exchange Lumber Co., 15 2d, S W
 Wilkinson, J. H., 102 3d, S W
 SOUTH BOSTON—Easley Grocery Co.
 Lawson, R. W. & Co.
 STAUNTON—Clem Bros.
 SUFFOLK—Allen, R. R.
 Folk, E. L. & Co.
 Shoop, Withers Co.
 WARRENTON—Wood, D. P. & Co.
 WINCHESTER—Johnson, Davis
 YARDS—Silica Brick & Sand Co.

WASHINGTON.

BELLINGHAM—Morse Hardware Co.
 PORT TOWNSEND—Quimper Mfg. Co.
 SEATTLE—Atlas Lumber & Shingle Co., Alaska
 bldg
 Builders' Supply Co., 406 Occidental av
 Carstens & Earles, Lowman bldg
 Crowe, F. T. & Co. (Complete Line), Globe
 Dally, S. W. R., Colman hldg bldg
 Fryer, David E. & Co.
 Galbraith, Bacon & Co., ft Madison
 Hill Brick Co.
 McMullen, J. S. & Co., Ewing c Fremont av
 McRath, T. S. & Co.
 Newell Mill Co., Bradford c 7th av So S
 Seattle Sand & Gravel Co.
 Washington Brick & Tile Co.
 SPOKANE—Crowe, F. T. & Co. (Complete
 Line)
 Idaho Lime Co., Division c N. P. R. R.
 Washington Brick, Lime & Mfg. Co., Wash'n
 & Pacific
 TACOMA—Crowell, Henry Lime & Cement Co.,
 1519 Dock
 Crowe, F. T. & Co. (Complete Line), 74c
 Griffin Transfer Co. Pacific av
 Tacoma Trading Co.
 Tacoma & Roche Harbor Lime Co., Equitable
 WALLA WALLA—Loney, Samuel hldg
 Snell, Geo. H.

WEST VIRGINIA.

BLUEFIELD—Saxon Lime & Lbr. Co.
 Silica Brick & Sand Co.
 BUCKHANNON—Alton Lbr. & Coal Co.
 Builders' Supply Co.
 Drummond, T. B. Co.
 CHARLESTON—Barlow, N. S.
 Conrtney, D. G.
 Gosborn & Co.
 CHARLESTOWN—Phillips, Wm. Sons
 CLARKSBURG—Williams & Davison Co.
 FAIRMONT—Lilley, Geo. M.
 West Virginia Builders' Supply Co.
 HUNTINGTON—Miller Supply Co.
 Mossman Bros.
 HURRICANE—McCallister, Wm. H.
 KEYSER—Liller, W. A.
 Storts, H. G.
 MORGANTOWN—Huston & Demain
 Morgantown Brick Co.
 Morgantown Cement Building Co.
 Morgantown Planing Mill Co.
 NEW CUMBERLAND—General Merchandise Co.

PARKERSBURG—Beckwith, Joel
 Lowtber, M. R. & Co.
 Senseman, J. M. Planing Mill Co.
 Wilsou, H. S. & Son
 WHEELING—Chapman, W. H. & Sons, 1218
 Miller & Stein, 1315 Main Main
 Wilson, W. A. & Son, 1215 Main

WISCONSIN.

ANTIGO—Clements, David
 APPLETON—Cotter, Jas. W.
 Marston Bros.
 ASHLAND—Ashland Lime, Salt & Cement Co.
 BARABOO—Johnston, H. M. Lbr. Co.
 BAYFIELD—Boutin, F.
 BEAVER DAM—Roedl & Jacobs
 BELOIT—Beloit Lumber Co.
 Keeler Lumber Co.
 Rohles & Welch
 BLACK EARTH—Michelson, A. A. & Co.
 BLACK RIVER FALLS—Black River Falls Lbr.
 & Mercantile Co.
 BOSCOBEL—Ruka Bros. Mfg. Co.
 BRANDON—Paine Lumber Co.
 BURLINGTON—Wilbur Lumber Co.
 CEDARBURG—Jochem, Wm. P.
 CHIPPEWA FALLS—Clark, Robt. B.
 Coleman, H. B.
 Tberfaut, J. B.
 EAU CLAIRE—Evans-Lee Co.
 Lang Construction Co.
 FOND DU LAC—Moore & Galloway Lumber Co.
 Mosher Lime & Stone Co. (Ltd.)
 FORT ATKINSON—Wilcox Lumber Co.
 Zengner-Hoffman Lumber Co.
 FOUNTAIN CITY—Roettiger, H. & F.
 GRAND RAPIDS—Bossert Bros. & Ebert
 Farrisb, R. & Bro.
 GREEN BAY—Barkhausen, Henry A.
 Flatley Bros. & Co.
 Mueller Bros. & Co.
 Murphy Lumber Co.
 HARTFORD—Grimm, John A.
 HAYWARD—North Wisconsin Lumber Co.
 HONEY CREEK—Wilbur Lumber Co.
 JANESVILLE—Fifield Bros.
 Schaller & McKey
 Taylor, F. A.
 JUNEAU—Sette & McCollow
 KAUKAUNA—Kaukanna Lbr. & Mfg. Co.
 Lindauer, L.
 Lindauer & Rhode.
 KENOSHA—Burr, R. H.
 LA CROSSE—City Tile & Cement Co.
 Hart, H. C. Implement Co., 101 N Front
 Lovejoy, Herbert
 LAKE GENEVA—Durkee, F. M.
 Wilbur Lumber Co.
 MADISON—Castle & Doyle
 Conklin & Son
 Cooley, C. F.
 Ratdke, W. J.
 MANAWA—Little Wolf River Lumber Co.
 MANITOWOC—Johnson, J. G. Co.
 Manitowoc Building Supply Co.
 Manitowoc Clay Product Co.
 Manitowoc Land & Salt Co.
 MARINETTE—Hamilton & Merryman Co.
 Ludington, N. & Co.
 Ludtke, John C.
 Lyons Bros. & Co.
 Merryman, R. W. & Co.
 MILTON—Saunders, T. A.
 MILTON JUNCTION—West Lumber Co.
 MILWAUKEE—Berthelet, H. Sewer Pipe Co.
 Bond, Hahn & Larnow Co.
 Bottom Sand Co., 535 National av
 Burnham Brick & Supply Co.
 Brandt, W. H. & Co., 3015 Walnut
 Chicago Brick & Supply Co., 204 Grand av
 Consolidated Cement & Supply Co.
 Devos & Whitnall Co., 206 State
 General Supply Co., Railway Exchange bldg
 Hahn & Co., 424 Commerce
 Hanners Lime Co.
 Illinois Leather Co. (Plastering Hair), 715
 Lannon Lime & Stone Co. Canal
 Lund, Geo., 336 S Water
 Maciolek, John
 Mayer, Daniel, 469 3d
 Milwaukee Building Supply Co.
 Milwaukee Concrete & Supply Co.
 Milwaukee Falls Lime Co., Humboldt av &
 Commerce
 Milwaukee Sand & Gravel Co.
 Nicbols Sand & Gravel Co.
 Pipkorn, W. H. & Co., 417 11th av
 Reiske, Albert J.
 Ricketson & Schwarz (Brick, Terra Cotta,
 etc.), University bldg
 Silica Brick & Stone Co.

Tews Bros.
Union Fibre Co.
Western Lime & Cement Co., Fabst bldg
Whithall & Racemaker Supply Co., Merrill
MONROE—Becker, Wm. A. bldg
Lodge Lumber Co.
NORTH MILWAUKEE—Wansau Lumber & Coal Co.

OSHKOSH—Cook & Brown Lime Co.

Gould Mfg. Co.
Hollister, Amos & Co.
Kusche, Edw.

PLYMOUTH—Kuster & Paasch

PORTAGE—Mohr, C. F.

RACINE—Fox Lime & Stone Co.

Horlick Lime & Stone Co.

Staples Bros.

RHINELANDER—Brown Bros. Lumber Co.

Queal, J. H. & Co.

Robbins Lumber Co.

RICHLAND CENTER—Krouskop, A. H.

RIPON—Barnett & Anderson

Horner & Middleton

SAUK CITY—Lachmund, P. & Son

SEYMOUR—Miller & Piehl

SHEBOYGAN—Sheboygan Lime Works

SPRINGFIELD—Wilbur Lumber Co.

SUPERIOR—Dixon & Lowry

Superior Mfg. Co.

TWO RIVERS—Gesell, John

WATERTOWN—Tetzlaff & Co.

WAUKESHA—Palmetier & Abell

Wilbur Lumber Co.

WAUSAU—Barker & Stewart

Curtis & Yale Co.

Stewart, Alexander Lumber Co.

WESTFIELD—Cochrane, T. H. & Co.

WYOMING.

LARAMIE—Overland Cement & Plaster Co.,
Holliday, W. H. Co.

Mast Arms (Arc Lamp, Etc.)

Belmont Iron Works, 22d & Washington av
Brady, T. H., New Britain, Conn. Phila., Pa.
Buffalo Specialty Mfg. Co. ("Duplex"), Buf-
falo, N. Y.

Craighead Engineering Co., 313 Walnut, Cincin-
nati, O.

Cutter, Geo. Co., 129 Fulton, Chicago, Ill.

Davis, M. & Sons (Electric Light), Salem, O.

Electric Railway Equipment Co., 1938 W 8th,

Fletcher Mfg. Co., Dayton, O. Cincinnati, O.

Supply Mfg. Co., 32d & Smallman, Pittsburgh

Western Electric Co., 259 S Clinton, Chicago, &
57 Bethune, N. Y.

*Masts & Spars

BOSTON-OREGON MAST CO., 116
Condor, East Boston, Boston, Mass. (See
adv. index, end of book)

Matchers

(See also Planers & Matchers)

American Wood Working Machine Co., Ro-
chester, N. Y.

Bentel & Margedant Co., Hamilton, O.

Berlin Machine Works, Beloit, Wis.

Chase Turbine Mfg. Co. (Power Feed Matchers,
with Glue Pot & Press), Orange, Mass.

Cordesman, Meyer & Co., 55 Central av., Cin-
cinnati, O.

Fay, J. A. & Egan Co., Cincinnati, O.

Indiana Machine Works Co., Ft. Wayne, Ind.

LANE MFG. CO., Montpelier, Vt.

(See adv. index, end of book)

SMITH, H. B. MACHINE CO., Smith-

ville, N. J., & 121 Liberty, New York. (See
adv. index, end of book)

Woods, S. A. Machine Co., Dorr opp Dor-
chester av, S. B., Boston, Mass.

*Materials (Building, for Export)

PORTABLE CONSTRUCTION CO., 16 S
William, New York

Mats (Rubber)

(See Mats & Matting, Rubber).

Mats (Steel Wire)

(See Mats & Mattings, Steel Wire)

Mats (Stove)

Keasbey & Mattison Co. (Asbestos), Ambler, Pa.
Tofler, A. (Steel & Wooden), 725 1st av, N. Y.

Mats (Street Car)

Eichman, Martin & Co., 256 Lorimer, Brook-
lyn, N. Y.

National Mat & Belt Co. (For Cars, Schools,
Homes, Elevators, etc.), Real Estate Trust
hldg, Phila., Pa.

Tofler, A. (Steel & Wooden), 725 1st av, N. Y.

Mats (Switchboard)

Massachusetts Chemical Co., Walpole, Mass.

Mats (Wire Table)

Lloyd Mfg. Co., Minneapolis, Minn.

Mats (Wood Rolling)

Tofler, A., 725 1st av, New York

Mats & Matting (Cocoa)

Darragh & Small (Calcutta & Domestic), 177
Water, New York

East India Mfg. Co., Baltimore, Md.

Greenland Cocoa Matting Co., 60 Gold, Brook-
lyn, N. Y.

Kempf, Geo. F. & Bro., 1027 N 4th, Phila., Pa.

McCabe, Benj. & Bro., 56 Franklin, New York

Planet Mills Mfg Co. (Jute Matting), 335 Car-
roll, Brooklyn, N. Y.

Rancocas Mills ("Diamond J. D."), Trenton,
N. J.

State Penitentiary Jute Mill (Jute Matting),
Walla Walla, Wash.

Western Penitentiary, Allegheny, Pa.

Wild, Jos. & Co., 11 Thomas, New York

Wolfe, D. H., Bourse hldg, Phila., Pa.

Mats & Matting (Rattan, Etc.)

Heywood Bros. & Wakefield Co., Gardner, Mass.

Mats & Matting (Rubber)

Ajax-Grieb Rubber Co., Trenton, N. J.

BOSTON BELTING CO., 260 Devon-

sire, Boston, Mass., & 100 Reade, New
York. (See adv. index & branch offices, end
of book)

Boston Woven Hose & Rubber Co., Executive
Office & Factory, Cambridgeport, Mass.

Consolidated Rubber Co., Trenton, N. J.

Continental Rubber Wks., Erie, Pa.

Orescent Belting & Packing Co., Trenton, N. J.

Diamond Rubber Co., Akron, O.

Empire Rubber Mfg. Co., Trenton, N. J., & 60
Reade, N. Y.

Goodrich, B. F. Co., Akron, O.

Gutta Percha Rubber Mfg. Co. (Rubber), 126
Duane, New York

Hamilton Rubber Mfg. Co., Trenton, N. J.

Hartford Rubber Works Co., Hartford, Conn., &
83 Michigan av, Chicago, Ill.

Home Rubber Co., Trenton, N. J.

International Automobile & Vehicle Tire Co.,
Milltown, N. J.

Lake Shore Rubber Co., Erie, Pa.

Manhattan Rubber Mfg. Co., 18 Vesey, N. Y.

Mechanical Rubber Co., 91 Chambers, New York

Morgan & Wright (Inc.), 226 Jefferson av., De-
troit, Mich.

National Mat & Belt Co., Real Estate Trust
hldg, Phila., Pa.

Newark Mat Co. (Combination Rubber Metal),
66 Marshall, Newark, N. J.

New Jersey Car Spring & Rubber Co., Jersey
City, N. J.

New York Belting & Packing Co. (Ltd.), 91
Chambers, New York

N. Y. Rubber Co. (Corrugated Matting), 84
Reade, N. Y.

Penna. Rubber Co., Jeanette, Pa.

Peerless Rubber Mfg. Co., 16 Warren, N. Y.

Republic Rubber Co., Youngstown, O.

Revere Rubber Co., 77 Bedford, Boston, Mass.

Seward Rubber Co., Berlin, Conn.

Stokes, Jos. Rubber Co., Trenton, N. J.

Trenton Rubber Mfg. Co., Trenton, N. J.

United & Globe Rubber Mfg. Co., Trenton, N. J.

Waterbury Rubber Mfg. Co., 75 Warren, New
York

Whitehead Bros. Rubber Co., Trenton, N. J.

Voorhees Rubber Mfg. Co., Jersey City, N. J.

Mats & Matting (Steel)

Acme Flexible Clasp Co., 2834 Archer av, Chi-
Braun Mfg. Co., Pittsburgh, Pa. cago, Ill.

Cuyahoga Wire & Fence Co. ("Hartman" Flex-
ible), New Castle, Pa.

McClelland, W. C. (Flexible), Rossmann, N. Y.

Glen Mfg. Co. ("Hartman" Flexible), Ellwood
City, Pa., & 181 B'way, New York

National Mat & Belt Co., Real Estate Trust
bldg, Philadelphia, Pa.

SMITH, F. P. WIRE & IRON

Works (Flexible, Flat Steel), 100 Lake, Chi-
cago, Ill. (See adv. index, end of book)

Tofler, A., 725 1st av, New York

Mats & Matting (Steel Wire)

AMOS, CHARLES & CO., 94 W

Larned, Detroit, Mich. (See adv. index,
end of book)

BUFFALO WIRE WORKS CO., 316

Terrace, Buffalo, N. Y. (See adv. index,
end of book)

East, Ray B. & Co., Marshalltown, Ia.

Glen Mfg. Co. ("Hartman" Flexible), Ellwood-
City, Pa., & 181 B'way, New York

Keystone Wire Matting Co., Beaver Falls, Pa.

Lloyd Mfg. Co., 1600 Central av, Minneapolis,
Minn.

Ludlow-Saylor Wire Co., 4th & Elm, St. Louis,
Mo.

National Mat & Belt Co., Real Estate Trust
Bldg., Philadelphia, Pa.

Pratt, Wm. E. Mfg. Co., 91 Lake, Chicago

Standard Wire Co. (Jonas Kaufman, Prop.), New
Castle, Pa.

U. S. Wire Mat Co., Decatur, Ill.

Wire Goods Co. ("Elastic" Steel Door Mats),
Worcester, Mass.

Matting (Electric Floor)

Patrick, Carter & Wilkins, 22d & Wood, Phila.,
Pa.

Western Electric Co., 259 S Clinton, Chicago,
Ill., & 57 Betbune, N. Y.

Matting (Grass)

American Grass & Twine Co., 377 B'way, New
York

Osbkosh Grass Matting Co., Osbkosh, Wis.

Mattocks

American Axe & Tool Co. (Adze Eye Pick,
etc.), Glassport, Pa., & 253 B'way, New
York

ANDERSON, W. H. TOOL & SUPPLY

Co., 14 Macomb, Detroit, Mich. (See adv.
index, end of book)

Beall Bros. (Inc.) (Solid Steel), Alton, Ill.

Colclesser Bros., El Dorado, Pa.

Collins Co., Collinsville, Conn., & 212 Water,
N. Y.

Cronk & Carrier Mfg. Co. (Garden, etc.), El-
mira, N. Y.

Findlay Axe & Tool Co., Findlay, O.

Iron City Tool Works (Adze Eye), 32d & Small-
man, Pittsburgh, Pa.

Klein-Logan Co., S. 13th & Breed, Pittsburgh, Pa.

Mack & Co., Rochester, N. Y.

Oliver Iron & Steel Co., Pittsburgh, Pa.

Pittsburg Tool & Drop Forge Co. (Adze, Eye,
etc., "Cheswick"), Cheswick, Pa.

Plumb, Fayette R. (Inc.), Fkd, Phila., Pa.

Warwood Tool Co., Wheeling, W. Va.

Mattocks (Asphalt)

ANDERSON, W. H. TOOL & SUPPLY

Co., 14 Macomb, Detroit, Mich. (See adv.
index, end of book)

Contractors' Tool Co., 704 Arch, Phila., Pa.

Klein-Logan Co., S 13th & Breed, Pittsburgh, Pa.

Mauls (Coal)

Beall Bros. (Inc.) (Long & Short), Alton, Ill.

Mauls (Post)

Barber Mfg. Co., Ashtabula, O.

Gowanda Agricultural Works, Gowanda, N. Y.

Patten & Stafford Co., Canastota, N. Y.

Sovereign, C. E. Co. (Handled), Rockford, Ill.

Weller Hdw. & Foundry Co., Horseheads, N. Y.

Western Foundry & Sash Weight Co., 159
Miller, St. Louis, Mo.

Mauls (Railroad or Spike)

ANDERSON, W. H. TOOL & SUPPLY
Co., 14 Macomb, Detroit, Mich. (See adv. index, end of book)

Atha Tool Co., Newark, N. J.
Billings & Spencer Co., Hartford, Conn.
Beall Bros. (Inc.), Alton, Ill.
Collins Co., Collinsville, Conn., & 212 Water, N. Y.

Evansville Tool Works, Evansville, Ind.
Hammond, C. & Son, Ogontz, Pa.
Hubbard & Co., Pittsburg, Pa.
Iron City Tool Works, 32d & Smallman, Pittsburg, Pa.

Kalamazoo Railway Supply Co., Kalamazoo, Mich.
Mack & Co., Rochester, N. Y.
Pittsburg Tool & Drop Forge Co. ("Cheswick"), Cheswick, Pa.

Plumb, Fayette (Inc.), Frankford, Phila., Pa.
Solid Steel Tool & Forge Co. ("S. T. S."), Brackenridge, Pa.

Vaughn & Bushnell Mfg. Co., 875 W Carroll av, Chicago, Ill.

Verona Tool Works, Murtland bldg, Pittsburg, Pa., & Verona, Pa.
Vicksburg Mfg. Co., Vicksburg, Mich.

Mauls (Rawhide)

Chicago Rawhide Mfg. Co., 75 E Ohio, Chicago, Ill.

Mauls (Ship or Top)

Atha Tool Co., Newark, N. J.
Collins Co., Collinsville, Conn., & 212 Water, N. Y.

Evansville Tool Works, Evansville, Ind.
Hammond, C. & Son, Ogontz, Pa.
Harvey, H. H., 608 Atlantic av, Boston, Mass.
Hubbard & Co., Pittsburg, Pa.
Iron City Tool Works, 32d & Smallman, Pittsburg, Pa.

Klein-Logan Co. (Solid Cast Steel), S 13th, Pittsburg, Pa.

Mack & Co., Rochester, N. Y.
Pittsburg Tool & Drop Forge Co. ("Cheswick"), Cheswick, Pa.

Plumb, Fayette (Inc.), Frankford, Phila., Pa.
Solid Steel Tool & Forge Co. ("S. T. S."), Brackenridge, Pa.

Vaughn & Bushnell Mfg. Co., 875 W Carroll av, Chicago, Ill.

Verona Tool Wks., Murtland bldg, Pittsburg, Pa., & Verona, Pa.
White, L. & I. J. Co., 143 Perry, Buffalo, N. Y.
Wilcox, Crittenden & Co., Middletown, Conn.

Mauls (Woodchoppers')

Atba Tool Co., Newark, N. J.
Beall Bros. (Inc.), Alton, Ill.
Evansville Tool Works, Evansville, Ind.
Hammond, C. & Son, Ogontz, Pa.
Hubbard & Co., Pittsburg, Pa.
Iron City Tool Works, 32d & Smallman, Pittsburg, Pa.

Klein-Logan Co. (solid cast steel), S 13th & Breed, Pittsburg, Pa.

Lehr Agricultural Co., Fremont, O.

McInnes Steel Co., Corry, Pa.

Pittsburg Tool & Drop Forge Co. ("Cheswick"), Cheswick, Pa.

Swett, A. L. Iron Works (Cast Iron), Medina, N. Y.

Mauls (Wooden)

Doscher Plane & Tool Co. (Boilermakers & Hickory, Iron Ring, etc.), Saugatuck, Conn.

Hellenberg & Son (Plumbers' & Well Drillers'), Coldwater, Mich.

Pittsburg Shovel Co. (Hickory, with Heavy Iron Rings), Frick bldg, Pittsburg, Pa. Works: Leechburg, Pa.

Tatem, J. B. & Son (Heavy), Putnam, Conn.
Woodstock Hardwood & Spool Mfg. Co., Charleston, S. C.

***Mausoleum Doors & Gates**

OHIO STRUCTURAL IRON CO., Sandusky, O. (See adv. index, end of book)

Meal (Polishing)

Peckham Mfg. Co., Newark, N. J.

Mechanical Draft

American Blower Co., 1400 Russell, Detroit, Mich.

ANDREWS & JOHNSON CO., 256 Washington boul., Chicago. (See adv. index, end of book)

Broomell, Schmidt & Steacy Co., Inc. (Induced Draft Fans), York, Pa.

Buffalo Forge Co., Buffalo, N. Y., & 39 Cortlandt, New York

GREEN FUEL ECONOMIZER CO., Matteawan, N. Y., & 1218 West Street bldg, New York. (See adv. index & branch offices, end of book)

Hartford Blower Co. (Forced & Induced), Hartford, Conn.

McPherson, W. G. Co., Portland, Ore.

NATIONAL BLOWER WORKS, 17th & St. Paul av, Milwaukee, Wis. (See adv. index, end of book)

New York Blower Co., 25th pl & Stewart av, Chicago, Ill. Factory: Bucyrus, O.
Parson Mfg. Co. ("Parson" System), 320 B'way, New York
Sirocco Engineering Co. ("Sirocco"), West St bldg, New York
Sturtevant, B. F. Co., Hyde Park, Mass.

Mechanical Engineers

(See Engineers (Civil, Mechanical & Mining))

***Mechanical Indicators for Elevators**

ELEVATOR SUPPLY & REPAIR CO., 76 W Monroe, Chicago, Ill., & 136 Liberty, New York. (See adv. below)

MECHANICAL INDICATORS
FOR
PASSENGER & FREIGHT ELEVATORS
ELEVATOR SUPPLY & REPAIR CO
136 LIBERTY ST. 76 W. MONROE ST
NEW YORK CHICAGO

***Mechanical Parts**

WORCESTER PRESSED STEEL CO.
(Successors to Worcester Ferrule & Mfg. Co.), Worcester, Mass. (See adv. index, end of book)

Mechanical Schools

(See Engineering Schools & Colleges.)

Mechanical Stokers

American Ship Windlass Co. ("Taylor" Underfeed), Providence, R. I.

American Stoker Co. (Automatic Underfeed), Erie, Pa.

Babcock & Wilcox Co., 85 Liberty, New York

Brightman Furnace Co., 648 B'way, Cleveland, Ohio

CHICAGO PNEUMATIC TOOL CO.
("Little Giant"), Chicago, Ill. (See adv. index, end of book)

MANUFACTURERS OF

The Luckett Automatic Stoker
(PERFECT COAL COMBUSTION)

Dredging Buckets for Mud or Sand
for either hard or soft material

BOILERS, ENGINES, STACKS,
TANKS, ETC., ETC., ETC.

DUPLEX STEAM PUMPS

E. J. CODD
PRESIDENT

WM. C. CODD
VICE-PRESIDENT

FRANK L. MOHLER
SECRETARY-TREASURER

E. J. CODD COMPANY

700, 702, 704, 706 and 708 S. CAROLINE STREET

Boilermakers, Machinists and Millwrights

BALTIMORE, MARYLAND

UNITED STATES

THE JONES STOKER

BURNS SOFT COAL MOST ECONOMICALLY

Fuel and Air are Proportionately Controlled and Automatically Regulated by Steam Requirements

THE UNDER-FEED STOKER CO. OF AMERICA - Chicago

CODD, E. J. CO. (Automatic) 700-708
S Caroline, Baltimore, Md. (See adv. on preceding page)

*Crowe, Paul L. (Structural Steel Gate Bars, etc.), 47 Montgomery, Jersey City, N. J.
Detroit Stoker & Foundry Co., N Grand Boulevard & Riopelle, Detroit, Mich.
Duluth Stoker Co. (A. B. Wolvin, Pres.), Duluth, Minn.

Green Engineering Co. (Automatic Traveling Link Gate), 138 Jackson boul, Chicago
Hawley Down Draft Furnace Co., Superior & Townsend, Chicago, Ill.

Hayden, N. L. Mfg. Co., Columbus, O.
Little Giant Stoker Co., 3906 S Halsted, Chicago, Ill.

Moore, Edw. J. Machine & Foundry Co. (Moore's Revolving Grates), 1734 Diamond, Phila., Pa.

Pittsburg Stoker & Mfg. Co. ("Pittsburg" Underfeed), 2525 Liberty av, Pittsburg, Pa.
Rosedale Foundry & Machine Co. ("Playford" Chain Gate Stoker), Allegheny, Pa.
Stirling Consolidated Boiler Co., 111 B'way, New York, Works, Barbettou, O.

Strouse, W. H. Mfg. Co., Oskaloosa, Ia.
UNDER FEED STOKER CO. OF
America ("Jones" Underfeed), 836 Marquette bldg, Chicago, Ill. (See adv. on preceding page)

Wallis Stoker & Mfg. Co., Terra Haute, Ind.
United States Mining & Trading Co. ("Peerless" Automatic Smokeless), 11 B'way, N. Y.
WESTINGHOUSE MACHINE CO.
The ("Roney"), Pittsburg, Pa.
Wetzel Mechanical Stoker Co., Trenton, N. J.
Wilkinson Manfg. Co., Inc., Bridgeport, Pa.

Megaphone Mfrs.

Crane Bros., Westfield, Mass.
Merriman Bros., 696 E 1st, E. R., Boston, Mass
Pratt, Z. I. Co., 158 W 27th, New York

Memorial Windows

Benziger Bros., 38 Barclay, New York
Bryant Bros., Columbus, Ohio.
Butterworth, Thos. C., 15 Polk, San Francisco.
Century Stained Glass Works (Ltd.), 212 S 11th, Phila., Pa.

Church Art Work Co., 151 E 18th, New York
Colgate Art Glass Co., 8 Gansevoort, N. Y.
Copeland Glass Co., Denver, Colo.
Crownshield, Fredk., 42 W 18th, N. Y.
Dayton Art Glass Wks., Dayton, Ohio
Decorative Glass Co., 43 N 17th, Phila., Pa.
Decorative Stained Glass Co., 46 Washington sq S, N. Y.

Dougherty, James, 435 W Broadway, N. Y.
Dukes, Henry, Glass Works (T. W. Tulton, Prop.), 2129 Market, Phila., Pa.

Eberhardt, Hugo & Co., 1148 W 12th, Chicago.
Flag, L. G. & Co., Sudbury bldg, Boston, Mass.
FLANAGAN & BIEDENWEG CO., 57

to 63 Illinois, Chicago, Ill. (See adv. index, end of book)
Ford Bros., Minneapolis, Minn.
Godwin, Albert, 1343 Arch, Phila., Pa.

Grimm, A. C., 155 E 23d, New York
Hausletier, J. & Co., 108 Fulton, Brooklyn,
Heinigke & Bowen, 24 E 13th, New York

Hooker, H. M. Co., 59 W Randolph, Chicago, Ill.
Janes, Walter, 138 W 42d, New York
Kerwin, E. F., Ornamental Glass Co., 925 N 6th, St. Louis, Mo.

Lamb, J. & R. (Inc.), 25 6th av, New York
Louisville Art Glass Co., Louisville, Ky.
Magnin, Charles, 17 E 14th, New York

Mayer & Co., 47 Barclay, New York.
Morgan Bros., 707 Gates av, Brooklyn, N. Y.
Morgan, John & Sons, 32 E 9th, New York & 17 Union av, Brooklyn, N. Y.

O'Halloran's, Thos. Sons, 127 Van Buren, New York, N. J.

Passarge, Albert M., 12 De Kalb av, Brooklyn
Payne, Geo. Hardy, 247 Market, Paterson, N. J.
Petgen Glass Co., Hamilton & 5th ave., Pittsburg, Pa.

Quaker City Stained Glass Works, 1407 Vine, Phila., Pa.

Rae, G. & Co., 436 W B'way, New York
Redding, Baird & Co., 83 Franklin, Boston, Mass.

Reith, Wm., 134 N 7th, Philadelphia, Pa.
Richardson, H. H. & Co., Jacksonville, Pa.
Righter & Kolb, 156 5th av, New York

Riordan, G. C. & Co., 133 E 5th, Cincinnati.
SCHULER & MUELLER, Canal & Madison, Chicago, Ill. (See adv. index, end of book)

Sellers, Benjamin, 80 Bible House, New York
Spence, Bell & Co., 90 Canal, Boston, Mass.

Spiers, Richard N., 859 6th av, New York
Stevens Art Glass Co., 28 S St. Clair, Dayton,
Stoltzenberg Co., 51 Barclay, New York O.

Summers, Charles, 239 Nassau, Brooklyn, N. Y.
Tiffany Studios, Madison av & 45th, New York
Van Horn, Daniel Art Glass Works, 537 17th, Milwaukee, Wis.

Von Gerichten Art Glass Co., Columbus, O.
Wallis, A. H., 2000 & 2002 Locust, St. Louis,
Western Sand Blast Mfg. Co., 21st & Marshall boul, Chicago, Ill.

Wood Glass Co., 226 N Salem, Syracuse, N. Y.

Mercurial Heat Generators

Honeywell Heating Specialty Co. ("Honeywell"), Wabash, Ind.

Mercury

Colonial Mining Co., Ashland blk., Chicago, Ill.
Mines: Quartzsite, Ariz.

Merry Go-Rounds

(See Carousels, Organs, etc.)

*Metal Bridging for Joist & Studding

BOSTWICK STEEL LATH CO., Niles, O. (See adv. index, end of book)

Metal Coatings

(See Paints for Coating & Preserving Iron & Steel.)

Metal (Compressed)

Chase Rolling Mill Co., Waterbury, Conn.

Metal Corner Beads (Plasterers')

(See Plasterers' Steel Corner Plates.)

Metal (Igniter Point)

Strelinger, Chas. A., Co. ("Casalloy") Detroit, Mich.

*Metal Importers & Exporters

LEAVITT, C. W. & CO., 222 B'way, New York. (See adv. below)

Metal (Monel)

Oxford Copper Co., 43 Exchange pl., New York

Metal Novelties & Specialties

Acorn Brass Mfg. Co. (Stamped, Turned, Spinning & Drawing), 51 N Peoria, Chicago, Ill.

Aluminum Mfg. Co. (Aluminum), Two Rivers, American Enamel Co., Providence, R. I. Wis.
American Pin Co. (Stamped & Spun Turned, from Rod, etc.), Waterbury, Conn.

Baker & Co. (All kinds platinum work), Newark, N. J.
Bronson, Homer D., Co. (From Brass, etc.), Beacon Falls, Conn.

Buescher Mfg. Co. (Sheet Brass & Aluminum, in Casting, Stamping, Turning or Plating), Chamberlain, J. H. D., Co., 275 Main, Springfield, Mass.

CHANDLER CO., Springfield, Mass. (See adv. index, end of book)
Chelsea Mfg. Co., Chelsea, Mich. Elkhart, Ind.

Consolidated Fruit Jar Co., New Brunswick, Cook, H. C. Co., Ansonia, Conn. N. J.

CROSBY CO. (Sheet Metal Stamping & Drawing), 171-189 Pratt, Buffalo, N. Y. (See adv. index, end of book)

Domestic Novelty Mfg. Co., 25 Camfield, Newark, N. J.
Florence Mfg. Co. (Aluminum Brushes, etc.), Florence, Mass.

Fargo, E. A. Co. (Aluminum, etc.), Taunton, Mass.

Gaynor & Mitchell Mfg. Co. (Special Sheet Metal Goods), Bridgeport, Conn.

Goodwin & Kintz Co. (from Brass, Aluminum, Nickel, etc.), Winsted, Conn.

GRAMMES, L. F. & SONS (Wrought Brass, etc.), Allentown, Pa. (See adv. index, end of book)

Havell Mfg. Co., 284 Wash'n, Newark, N. J.
Illinois Pure Aluminum Co. (Aluminum Combs, Hair Pins, Thimbles, etc.), Lemont, Ill.

McKeel, Geo. A. & Co. (Sheet Metal), Jackson, Mich.

McKenna Bros. Brass Co. (Ltd.), Pittsburg, Pa.
MOSSBERG, FRANK CO. (Sheet Metal, Stamped & Punched), Attleboro, Mass. (See adv. index, end of book)

Mossberg Wrench Co. (Sheet Metal Stampings), Central Falls, R. I.

Newark Sheet Metal Ware Co., 50 Elm, Newark, N. J.

Novelty Mfg. Co. (Brass Mounting & Trimmings), Waterbury, Conn.

Oakville Co. (Pins, etc.), Oakville, Conn.

Parke, Jno. Y. & Co. (Brass Goods for Hardware Trade), 728 Cherry, Phila., Pa.

Riley-Klotz Mfg. Co., 17 Mulberry, Newark, N. J.

SALO ART METAL CO. (Etched, etc.), 462 E 136th, New York. (See adv. index, end of book)

Success Mfg. Co. (Ash Sifters, Roof Flanges, Traps, etc.)

Thompson, Mrs. Frank K. (Brass), Elkhart, Ind.

Torrington Mfg. Co. (Brass & Iron), Torrington, Conn.

Turner Brass Works, 66 Mich., Chicago, Ill.

Turner & Seymour Mfg. Co. (of all Descriptions, Plate, etc.), Torrington, Conn.

Union Novelty Mfg. Co. (Wood, Iron, Metal etc.), 1338 Charles, Indianapolis, Ind.

Watson-Porter-Watson Co. (Ltd.), Uuadilla, Mich.

Waterbury Brass Goods Corporation (Made from Brass), Waterbury, Conn.

Wiland & Co., 205 Willow, Phila., Pa.

Metal Parts for Loose Leaf Devices

Shultz, W. J.-Tenacity Co., 116 Opera Place, Cincinnati, O.

Metal Polish

Adams & Elting Co. ("Meto Bright"), Chicago, Ill.

Advance Packing & Supply Co. ("Advance"), Chicago, Ill.

Acme Polish Co. ("Acme"), 810 2d av, Pittsburg, Pa.

Allen, L. B. Co. ("Al-Lectro" for Metal & Glass), 1335 Columbia av, Chicago, Ill.

Allers, Harry A. & Co. ("Solarine"), 136 Liberty, N. Y. City

American Metal Polish Co. ("Tripoli"), "Crocus," "Emery Cake," "White Composition," Gold, Silver & Nickel Rouges, Akron, O.

Arnsteiu, Eugene ("Shine-All"), 35th & Shields av, Chicago, Ill.

Ayrolte Co., Pittsburg, Pa.

Bell Mfg. Co. ("Star," Liquid, Powder & Paste), St. Louis, Mo.

Brown Specialty Machinery Co. ("Aseptine"), Jackson boul & Clinton, Chicago, Ill.

Buffalo Specialty Co. (Metaline & Sparkleine), 375 Ellicott, Buffalo, N. Y.

Callery, W. W. & Co. ("Winterton"), 30th & Butler, Pittsburg, Pa.

Cleaner Mfg. Co. ("Polishine," Liquid Paste & Powder), 2842 Olive, St. Louis, Mo.

Colgon Mfg. & Supply Co. ("Peerless"), 42 South, New York

Cross, W. H. ("Gilt Edge" Liquid, Paste & Powder & "Cross" Paste), 18 Franklin, Brooklyn, N. Y.

Fiebing Chemical Co. ("Fiebing" Lusterine), Milwaukee, Wis.

Grady Mfg. Co. ("Scourer," "U-No," "Putz," "Glittershine," "Army & Navy," "National," "Compounds"), 520 W 40th, N. Y.

Harris, A. W. Oil Co. ("Harris-Scourer"), Providence, R. I.

Harvey Chemical Co. ("Pride of the Bar Room" Powder, "Pride of the Housekeeper," "American" Liquid, Paste, "Superior Silver," "Majestic"), Lafayette, Ind.

Hatt, Chas. E., Polish & Chemical Co. ("Hatt's" Rubbing Polish), Detroit, Mich.

Hinds & Coon ("Ruby-Rub"), 126 Pearl, Boston, Mass.

Hoffman, Geo. W. ("U. S." Infalible Paste, Powdered & Liquid, "Bar Keepers' Friend"), 549 E Washington, Indianapolis, Ind.

Hoffman, J. W. Co. ("Anchor"), 436 Atlantic av, Boston, Mass.

Hollingshead, R. M. Co. ("Electro-Shine"), Camden, N. J.

Kimball, C. M., Winthrop, Mass.

Kortum Mfg. Co. ("Zircon"), Attica, N. Y.

Landers, Frary & Clark ("L. F. & C." Cleaning & Polishing Powder for Gold, Silver Plated Ware, etc.), New Britain, Conn.

Lion Specialty Co. ("Lion" & "Crown Cream," Liquid, Powder & Paste), 56 Warren, New York, Works, Elizabeth, N. J.

Menham, Geo. S. & Co., East St. Louis, Ill.

Miller Bros. & Co. ("Sterling" Silver Polish & "Dazzler" Putty Liquid), 31 Jay, New York

Moore, E. C. & Sons Co. ("Moore"), Detroit, Mich.
 Mutual Auto Accessories Co. of America ("Skidoo," "23" & Hand Soap), 1937 B'way, New York
 National Tripoli Co. (Tripoli), Columbus, O.
 National Cement & Rubber Mfg. Co. (Liquid), Toledo, O.
 Oriental Rouge Co. ("Oriental" Rouges), Bridgeport, Conn.
 Rath Mfg. Co. ("Imperial," "Staxaline," "Swiss Shine," "Golden Sceptre," "High Shine"), 2d, Hancock & Laurel, Phila., Pa.
 Rex Chemical Co. ("Crown," Liquid, Powder & Paste & "Diatom" Liquid & Powder), 842 W Balto., Baltimore, Md.
 Schlegel Oscar Mfg. Co. ("Lustreine" Liquid), 111 E 12th, N. Y.
 Sheppard, W. S. ("Prestoshine"), 21 Lawrence, Newark, N. J.
 Steward, D. M. Mfg. Co. ("Stained" Powder for Cleaning & Polishing everything), Chattanooga, Tenn.
 Tarbox Mfg. Co., New London, Conn.
 Ulrich & Co. ("A-O. K.," "Raydo" Liquid & Dry), Buffalo, N. Y.
 Utility Co., 332 B'way, New York
 Wilson Co. ("Wilson" Liquid), 18 B'way, New York
 Works, Long Island City, N. Y.
 Winn, Wm. R. ("Winn"), 143 Maiden Lane, New York, & Springfield, Mass.

Metal Sash & Mouldings

Anderton, Ralph L., 210 Grand, New York
CLASON ARCHITECTURAL METAL
 Works (Metal Sash Only) Works: 428 Kinsley av, Providence, R. I. (See adv. index, end of book)
JONES, TREVOR F. & CO. (in Aluminum, Bronze, etc.), 374 W B'way, N. Y. (See adv. below)

*Metal Signs

(See also Signs, Metal)

JONES, TREVOR F. & CO., 374 W B'way, N. Y. (See adv. below)

Trevor F. Jones. Henry H. Jones.
 Established 1883.
TREVOR F. JONES & CO.,
 Manufacturers of
Metal Signs, Plates and Memorial Tablets,
 Bulletin Signs for Buildings. Raised Letter, Bronze, Brass, Silver, Engraved, etc.
374 West Broadway, New York City.
 Tel. 2759 Spring.

Metal Surfacers

Peckham Mfg. Co. (For Dry Barrel Polishing), 244 South, Newark, N. J.
 St. Louis Surfacers Co. ("Koons"), 102 Commercial, St. Louis, Mo.

Metal (Tungsten)

Beaver Metallurgical Co. (Its Alloys & Compounds), Beaver Falls, Pa.

Metaline

North American Metalline Co., Long Island City, N. Y.

Metallic Arsenic

Lehn & Fink, 120 William, New York

Metallic Sash Bars

AMOS, CHARLES & CO., 94 W Larned, Detroit, Mich. (See adv. index, end of book)

Anderton, Ralph L., 210 Grand, New York
 Barnum, E. T. Wire & Iron Works, Detroit, Mich.

Chicago Metallic Sash Works, 21 Mohawk, Chicago, Ill.

Columbus Corner Post Co., Columbus, O.
COULSON, J. W. & CO., 98 N 3d, Columbus, O. (See adv. index & branch offices, end of book)

Hecla Iron Works, 118 N 11th, Brooklyn, N. Y.

JONES, TREVOR F. & CO., 374 W B'way, New York. (See adv. top of next column)

Trevor F. Jones. Henry H. Jones.
 Established 1883.
TREVOR F. JONES & CO.,
 Manufacturers of
Metal Sash Bars and Mouldings for Store Fronts,
 Covering of Woodwork in Aluminum, German Silver, Nickel, Brass, Bronze, Copper, etc.
374 West Broadway, New York City.
 Tel. 2759 Spring.

Phillips, John Co. (Ltd.), 51 Fort, Detroit, Mich.
 Sheldon, Smith, 185 N Water, Rochester, N. Y.
VULCAN CO., Detroit, Mich. (See adv. index, end of book)
WISCONSIN IRON & WIRE WORKS,
 190 E Water, Milwaukee, Wis. (See adv. index, end of book)

Metallic Settings

(See Glass Setting in Lead or Metal)

Metals (Anti-Friction)

(See Babbitt Metal; also Bearings, Various Kinds.)

Metals (Old)

(See Scrap Iron & Steel)

Metals (Rare)

Beaver Metallurgical Co., Beaver Falls, Pa.
LEAVITT, C. W. & CO., 222 B'way, New York. (See adv. index, end of book)
 Victor Metals Co. ("Non-Corrosive Silver Metal & Bronzes"), East Braintree, Mass.

Meter Provers

American Meter Co., 561 47th, New York
 McDonald, D. & Co., Albany, N. Y., & 511 W 21st, New York

Meter Seals

Columbus Meter Seal Mfg. Co. (for Gas & Water), Columbus, O.
 Safety Meter Lock Co. (Gas & Water), Columbus, O.

*Meter Varnish

STANDARD VARNISH WORKS, 29 B'way, New York. (See adv. index & branch offices, end of book)

Meters (Acetylene)

Griffin, John J. & Co., 1513 Race, Phila., Pa.
 Keystone Meter Co., Royersford, Pa.
 Maryland Meter Co., North & Saratoga, Baltimore, Md.

*Meters (Air)

SCHAEFFER & BUDENBERG MFG. Co. (Portable, for Measuring Air Currents), Foxboro, Mass. (See adv. index & branch offices, end of book)

Meters (Differential)

Weston Electrical Instrument Co., Waverly Park, Newark, N. J.

Meters (Distance Recording)

Acme Auto Indicator Co., 442 Water, New York
 Bullard, J. H. (Speedometer & Odometer combined), Springfield, Mass.
 Chrono-Velocimeter Co., 1215 Filbert, Phila., Pa.
 Hoeffcker Speed & Mile Register Co., Park Sq. Boston, Mass.
 Jones Speedometer Co. ("Jones"), New Rochelle, N. Y.
 Lee Speedistimeter Co., Trenton, N. J.
 Loring, E. J. (Speedometer & Odometer combined), Somerville, Mass.
 Rollins Mfg. Co. (Speedometer & Odometer combined), Park sq. Boston, Mass.

Sibley & Pitman ("Abell"), 26 Warren, New York
SMITH, R. H. MFG. CO. Speedometer & Odometer combined), Springfield, Mass. (See adv. index, end of book)
 Veeder Mfg. Co., Hartford, Conn.
 Webb Mfg. Co., 60 Shipman, Newark, N. J.
 Wheelock Motor Car Clock Co. (Speedometer & Odometer combined), Tremont bldg, Boston, Mass.
 Wluchester Speedodometer Co., 1557 Broadway, New York
 Wood Speedometer Co., 104 Sudbury, Boston, Mass.

Meters (Electric)

(See Wattmeters; also Ammeters & Voltmeters)

*Meters (Fluid)

SCHAEFFER & BUDENBERG MFG. Co. (for Ascertaining the Velocity of Flowing Water), Foxboro, Mass. (See adv. index & branch offices, end of book)

Meters (Fuel Gas)

Chaplin-Fulton Mfg. Co., Pittsburg, Pa.
 Pittsburg Supply Co., 439 Water, Pittsburg, Pa.

Meters (Gas)

American Meter Co., 561 W 47th, New York
 Cleveland Gas Meter Co., 42 Glendale av, Cleveland, O.
 Detroit Meter Co. ("Buhl"), Detroit, Mich.
 Griffin, J. J. & Co., 1513 Race, Philadelphia, Pa.
 Helme & McIlhenny, 1339 Cherry, Philadelphia, Pa.
 Keystone Meter Co., Royersford, Pa.
 La Porte Gas Meter Co., La Porte, Ind.
 McDonald, D. & Co., 51 Lancaster, Albany, N. Y.
 Maryland Meter Co., North & Saratoga, Baltimore, Md.
 New Haven Novelty Machine Co. (Prepayment Mechanism for Gas Meters), New Haven, Conn.
 Phoenix Meter Co., Camden, N. J.
 Pittsburg Meter Co. (Tln, Westinghouse Gas & Westinghouse Proportional), East Pittsburg, Pa.
 Pittsburg Supply Co., 439 Water, Pittsburg, Pa.
 Reeves Mfg. Co., Milford, Conn.
 Standard Meter Co., 8th & Mifflin, Phila., Pa.
 Tufts, Nathaniel, Meter Co., 8 Medford, Boston, Mass.

Meters (Grade Indicating)

Adams Co., Dubuque, Ia.
 Motor Car Supply Co. ("Updown"), 1427 Michigan av, Chicago, Ill.
 Sussfield, Lorsch & Co., 37 Maiden, Ia, New York
 Willis, E. J. Co., 8 Park pl, New York

Meters (Oil)

Buffalo Meter Co. (The Niagara), 290 Terrace, Buffalo, N. Y.
 International Steam Pump Co., 114 Liberty, New York
 National Meter Co., 86 Chambers, New York
 Union Water Meter Co., Worcester, Mass.

Meters (Pocket)

Atwater Kent Mfg. Wks. ("Kent" Electric), 120 N 6th, Phila., Pa.

Meters (Prepaid Gas)

Keystone Meter Co., Royersford, Pa.
 McDonald, D. & Co., 51 Lancaster, Albany, N. Y.

Meters (Speed Indicating)

(See also Indicators, Speed)

Acme Auto Indicator Co., 442 Water, New York
 Bullard, J. H. (Speedometer, Odometer, Clock, combined), Springfield, Mass.
 Chicago Pneumatic Tool Co. ("Boyer"), Fisher bldg, Chicago, Ill.
 Chrono-Velocimeter Co., The, 1213 Filbert, Phila., Pa.
 Electric Speed Meter Co., The, 141 E 4th, Cincinnati, O.
 Hicks Speed Indicator Co., 1384 Bedford av, Brooklyn, N. Y.
 Hoeffcker Speed & Mile Register Co., Park sq. Boston, Mass.

Jones, Jos. W. ("Jones" Auto Boat), 127 W 32d, New York
 Jones, Wm. S. ("Lea" Speedometer), 112 N Broad, Phila., Pa.
 Lipman, Carl E. L., Beloit, Wis.
 Loring, E. J. (also Speedometers & Odometers Combined), Somerville, Mass.
 Monitor Speed Recorder Co., 247 Pearl, Cambridge, Mass.
 Motor Car Specialty Co. (Combination Speed Meter, Odometer & Clock), 143 E State, Trenton, N. J.
 Rollins Mfg. Co. (Combined Speedometers & Odometers), Park sq, Boston, Mass.
 Smith, R. H. Mfg. Co. ("Springfield" Speedometer & Odometer combined), Springfield, Mass.
 Uncas Specialty Co., 21-37 Shipping, Norwalk, Conn.
 Veeder Mfg. Co. ("Veeder Tachometer"), Sargeant & Garden, Hartford, Conn.
 Warner Instrument Co. ("Warner" Auto-Meter), Beloit, Wis.
 Webb Mfg. Co., 60 Shipman, Newark, N. J.
 Wheelock Motor Car Clock Co. ("Wheelock" Speedometers & Odometers combined), Tremont bldg, Boston, Mass.
 Winchester Speedometer Co., 1557 Broadway, New York
 Wood Speedometer Co., 106 Sudbury, Boston, Mass.

Meters (Steam)

American District Steam Co. ("Holly & Simplex" Condensative), Lockport, N. Y.
 Pearce, W. H. & Co. ("Crescent" Condensation), 269 Dearborn, Chicago, Ill.
 St. John, G. C., 143 Liberty, New York
 Sargent Steam Meter Co. ("Sargent"), First National Bank bldg, Chicago, Ill.

Meters (Velocity)

Bristol Co. ("Bristol's"), Waterbury, Conn., & 114 Liberty, New York
 Du Vivier, Ernest H. (Imported), 14 Church, New York

Meters (Water)

American Valve & Meter Co. ("Cincinnati"), Cincinnati, O.
 Buffalo Meter Co. (The Niagara), 290 Terrace, Buffalo, N. Y.
 Builders' Iron Foundry ("Venturi"), Providence, R. I.
 Desper, H. A. Mfg. Co., Worcester, Mass.
 Hersey Mfg. Co. (Disc, Rotary & Torrent), 314 W 2d, S. B., Boston, Mass.
 National Meter Co., 86 Chambers, New York
 Neptune Meter Co., 90 West, New York
 Pittsburg Meter Co. ("The Pittsburg" & "Key-stone"), East Pittsburg, Pa.
 Sangamon Electric Co., Springfield, Ill.
 Standard Water Meter Co., 245 Robinson, Brooklyn, N. Y.
 Thomson Meter Co., 79 Wash'n, Brooklyn, N. Y.
 Union Water Meter Co., Worcester, Mass.
 Worthington, Henry R. (Inc.), 114 Liberty, New York

Mica

American Mica Co., Newton Lower Falls, Mass.
 Asheville Mica Co., Asheville, N. C.
 Black Hills Clay & Marble Co., Custer City, S. Dak.
 Carolina Locust Pin & Mica Co., Franklin, N. C.
 Chicago Mica Co. ("Micabond"), Valparaiso, Ind.
 Chicago Mica Co., Valparaiso, Ind.
 Crown Mica Co. (Miners), Custer, S. Dak.
 Franklyn & Ferguson (Electrical, Ground & Pulp), Cotton Ex. bldg, New York
 Johns, H. W.-Manville Co. (Moulded), 100 William, New York
 Mica Insulator Co. (Micante), 218 Water, New York
 Mica Mfg. Co., 307 W B'way, New York
 Munsell, Eugene & Co., 218 Water, New York
 National Gum & Mica Co. (Ground & Pulp, etc.), 502 W 45th, New York
 North Carolina Mica Co., 84 North, Boston, Mass., & 86 Michigan av, Chicago, Ill.
 Ray, G. & Son, Burnsville, N. C.
 Richmond Mica Co., Richmond, Va.
 Schoonmaker, A. O. (Importer), 221 Fulton, New York
 Sills-Eddy Mica Co. (Micabeston), Chicago, Ill., & Newark, N. J.

Storrs Mica Co., Oswego, N. Y.
 United States Mica Mining & Milling Co. (Sheet, Ground, Electric Plate, Washers, Discs & Flake Lubricant), Railway Exchange bldg, Chicago, Ill.
 Vance, D. T., Plumtree, N. C.
 Whittaker, W. H., 245 Front, New York

Mica Chimneys

(See Chimneys, Mica.)

Mica (Ground)

Atlas M. & M. Co., Lincoln, N. J., & 82 Pearl, New York
 Richmond Mica Co. (Miners & Mfrs.), Richmond, Va.
 United States Mica Mining & Milling Co., Railway Exchange bldg, Chicago, Ill.
 Whittaker, W. H., 245 Front, New York

Mica Insulators

(See Insulators.)

*Mica (Schist)

RUTLAND FIRE CLAY CO. (Pulverized), Rutland, Vt. (See adv. index & branch offices, end of book)

Micrometers

Brown & Sharpe Mfg. Co., Providence, R. I.
HAMMACHER, SCHLEMMER & CO., 133 4th av, New York. (See adv. index, end of book)
 Massachusetts Tool Co. (Outside & Inside), Greenfield, Mass.
 Sawyer Tool Mfg. Co., Fitchburg, Mass.
SCHAEFFER & BUDENBERG MFG. CO. (for Measuring the thickness of Paper, Cloth, etc.), Foxboro, Mass. (See adv. index & branch offices, end of book)
 Slocumb, J. T. Co., 29 Oxford, Providence, R. I.
 Smith, E. G. Co. ("Columbia"), Columbia, Pa.
 Starrett, L. S. Co. (Outside & Inside), Athol, Mass.
 Syracuse Twist Drill Co., Syracuse, N. Y.

*Microscopes

QUEEN & CO. (Inc.), n. w. c 8th & Arch, Phila., Pa. (See adv. index, end of book)

Milk-Shakers

Erie Specialty Co., Erie, Pa.

Mill Cogs

Bowsher, N. P. Co. (Wooden), South Bend, Ind.
 Cover, H. S. (Dressed), South Bend, Ind.
 Menasha Mfg. Co. (Hard Maple), Menasha, Wis.

*Mill White (Rice's)

U. S. GUTTA PERCHA PAINT CO., 12-30 Dndley, Providence, R. I. (See adv. index, end of book)

Mill & Factory Supplies

(Firms indicated by a Star (*) manufacture Belting also.)

See also Belting & Belt Appliances.
 Also Cotton & Wool Waste.
 Also Engineers' Supplies.
 Also Gears.
 Also Hangers.
 Also Lubricants.
 Also Machinery, Power Transmission.
 Also Packing, Steam, etc.
 Also Pipe & Boiler Coverings.
 Also Shafting.

For all other Mill & Engineers' Specialties, see Index of Contents.

ALABAMA.

ANNISTON—Anniston Supply Co.
 BIRMINGHAM—Crane Co. (of Chicago, Ill.), Est. 1855. (See adv. index, end of book)
 Echols Supply Co.
 Knauft, R. & Co.
 Moore & Handley Hardware Co.
 Prowell Hardware Co. (Also Mine)

RUMSEY & CO. (Ltd.) Crane Co., Agt.), (See adv. index, end of book)
 Yates, J. A. & Co.

EUFAULA—Petrey & Stewart
 GREENVILLE—Henderson, C. C. Machine Co.
 Johnson, J. F. Hardware Co.
 MOBILE—Cole, E. L.
 Cunningham Hardware Co.
 Mellett, Richard
 Southern Supply Co.
 Zelnicker, Walter A. Supply Co.
 MONTGOMERY—Janney, A. A. & Co.
 Liddell Machinery & Supply Co.
 Lum Machinery Co.
 Snow-Tulls Hardware Co.
 NEW DECATUR—North Alabama Engineering
 OPELIKA—Phillips, Yarbrough & Allen Co.
 SELMA—Union Iron Works Co.
 TALLADEGA—Michael Supply Co.

ARIZONA.

PHOENIX—Thayer, Ezra W. (also Mine)
 PRESCOTT—Hill, Samuel Hardware Co. (Also Mine)
 TUCSON—Gardiner, Worthen & Goss Co.

ARKANSAS.

CAMDEN—Camden Hardware & Mill Supply
 DARDANELLE—Cox, Thos. Mfg. Co. Co.
 FORT SMITH—Atkinson-Williams Hardware Co.
 Ayers & Co.
 Speer Hdw. Co.
 HELENA—Tappan, James A. Hardware Co.
 LITTLE ROCK—Fones Bros. Hardware Co.
 Jones, D. E. Co.
 Rosenbaum, C. E. Machinery Co.
 Wehrfritz, E. C. Machinery & Supply Co.
 Wing & Stephens Co.
 MAGNOLIA—Couch Hardware Co.
 Davis & Warnock
 PINE BLUFF—Fox Bros. Hardware Co.

CALIFORNIA.

GRASS VALLEY—Biggs, Elam Hdw. Co. (Also Mine)
 LOS ANGELES—Baker & Hamilton, 136 N Los Angeles
 Booth, Levi & Sons (Inc.), 262 S Los Angeles
 *Busch, A. H. Co., 150 N Los Angeles
 Crane Co. (of Chicago), Est. 1855, 126 N Los Angeles
 Ducommun, C. (Also Mine), 300 N Main
FAIRBANKS, MORSE & CO., 136 S Los Angeles. (See adv. index, end of book)
 Pacific Coast Mfg. Co., 126 S Los Angeles
 Union Hardware & Metal Co., 1st & Alameda
 Warren & Bailey Mfg. Co. (Belting, etc.), 359 N Main

NEVADA CITY—Legg & Shaw Co.
 OAKLAND—Crane Co. (of Chicago), Est. 1855. (See adv. index, end of book)
 PLACERVILLE—Meehan, M. Q. (Also Mine)
 SACRAMENTO—Baker & Hamilton
 Schaw-Batcher Co.

SAN FRANCISCO—Arnold Hdw. Co., 1442 O'Farrell
 Baker & Hamilton, 3d & Berry
 California Belting & Supply Co., 1425 Mission
 Cameron Bros. & Co. (Also Mine), 132 Market
 *Cook, H. N. Belting Co., 317 Howard
 Crane Co. (of Chicago), Est. 1855., 1st & Howard
 Dunham, Carrigan & Hayden Co., 131 Kansas
FAIRBANKS, MORSE & CO., 531 Howard. (See adv. index, end of book)
 Golden State & Miners' Iron Works, 237 1st
 Graton & Knight Mfg. Co., 125 Beale
 Harron, Richard & McCone (Inc.), 436 Market
 Henshaw, Bulkley & Co., 219 Spear
 Horsford Bros., 107 Main
 Lewis, W. S. Covering Co., 109 Fremont
 Marwedel, C. W., 258 9th
 *New York Belting & Packing Co. (Branch of New York), 605 Mission.
PACIFIC HDW. & STEEL CO. (Agt. of Rumsey & Co., Ltd.), (See adv. index, end of book)
 Pacific Hardware & Steel Co., s. w. c 7th & Townsend.
 Schaw-Batcher Co., 305 Market
 Simonds Mfg. Co., 31 Main
 Wagner, Jos. Mfg. Co., 508 Cole
 SAN JOSE—Garden City Supply Co.

COLORADO.

BLACK HAWK—Clark Hardware Co. (also BOLDER—Saylor, Jno. M. Mine)
BRECKENRIDGE—Gold Pan Engineering & Mine Supply Co.
DENVER—Allis-Chalmers Co., 501 17th
Dillon Hardware Co., 1525 15th
FAIRBANKS, MORSE & CO., 1600
17th. (See adv. index, end of book)
Flint-Lomax Electric & Mfg. Co., 1400 Delgany
Hendrie & Bolthoff Mfg. & Supply Co., 1639 17th
Leyner, J. George Engineering Works Co., 1707 Glenarm
Mine & Smelter Supply Co., 17th & Blake
Montgomery, J. H. Machinery Co., 1220 Curtis
Onderdonk Engineering Co., 410 17th
Scott Supply & Tool Co. (Also Mine), 1725 Blake
Stearns-Roger Mfg. Co., 1724 California
OURAY—Arps Bros. Hardware Co. (also Mine & Smelter)
TELLURIDE—Tomkins-Hunt Hardware Co.

CONNECTICUT.

BRIDGEPORT—Hawley Hardware Co.
Hawley, Thomas & Co.
Lyon & Grumman
*Palmer, N. & Co.
Plumb, L. D.
BRISTOL—Stedman & Co.
Weldon, S. A. & Son
DANBURY—Hoyt, H. W. Co.
DANIELSON—Jacobs, E. H. Mfg. Co.
DERBY—Hallock, F. Co.
HARTFORD—Bidwell, J. C. & Co.
Connecticut Rubber Co.
Francis & Co.
Hartford Mill Supply Co.
Knox, Frank J. Co.
Plimpton & Hills Corporation
Tracy, Robinson & Williams Co.
MERIDEN—Church & Morse
MIDDLETOWN—Noxon & Whitney Co.
NEW BRITAIN—Abbe, A. H. & E. W.
Mills, Herbert L.
NEW HAVEN—Bushnell, N. T. Co., 298 State
*Coe & Brown, 202 George
Mersick, C. S. & Co. (Belting, Packing, etc.), 286 State
NEW LONDON—Darrow & Comstock Co.
NORTH WINDHAM—Hartson, L. M. Co.
NORWICH—Carroll, G. W.
Eaton, Chase & Co.
Norwich Belt Mfg. Co.
SOUTH MANCHESTER—Bliss, F. T. Hdw. Co.
STAMFORD—Begent, Lynch & Swayze Co.
Davenport, John S. & Son
TORRINGTON—Agard Hardware Co.
UNION CITY—Page, J. M. & Co.
WALLINGFORD—Conn. Hdw. & Paint Co.
WINSTED—Carroll, Jos. L.
Dickerman & Pond Co.

DELAWARE.

WILMINGTON—Ainsworth Covering Co.
Atlantic Mill Supply Co.
Carey, Andrew, 425 W 2d
Delaware Electric & Supply Co.
Industrial Supply Co.
Kent, Lindley C. Co.
McComb, Thomas, 209 Shipley
Pyle, Victor R., s s Market st bridge
Reynolds, Wm. K. Orange
*Rhoades, J. E. & Sons
Simmons, S. G. & Bros.

DISTRICT OF COLUMBIA.

WASHINGTON—Howard, Henry J. M., 915 E.
Kendall, J. B., 487 Mo av, N W
National Electrical Supply Co., 1330 N. Y
av, N W

FLORIDA.

GAINESVILLE—BaIRD Hardware Co.
Thomas, S. J. Co. (also Mine)
JACKSONVILLE—Christopher, John G.
Florida Hardware Co. (Inc.)
Hubbard, S. B. Co. (Inc.)
MADISON—Dial, W. H., Jr.
OCALA—Hubbard & MacDuff
Marion Hardware Co.
Ocala Foundry & Machine Works
PENSACOLA—Avery, A. M.
ST. AUGUSTINE—Hamblen, O. F.

GEORGIA.

AMERICUS—Sheffield-Huntington Co.
ATLANTA—Atkins, E. C. & Co., 86 Marietta
Atlanta Supply Co., 29 S Forsyth
Beck & Gregg Hdw. Co., 64 Marietta
Cotton States Belting & Supply Co., 9 S Broad
De Loach Mill Mfg. Co., 400 Highland av
Graton & Knight Mfg. Co., 93 S Forsyth
*Ladew, Edw. R. (Est. of), 18 N Forsyth
Malsby Co., 41 S Forsyth
Southern Belting Co., 44 S Forsyth
AUGUSTA—Lombard Iron Works & Supply Co.
BRUNSWICK—Downing Co. (Also Naval Stores)
Ellis-Young Co. (Also Naval Stores)
CAIRO—Sapp Hdw. Co.
COLUMBUS—Bush Hardware Co.
Golden Foundry & Machine Co.
COVINGTON—Stephenson, James R.
FITZGERALD—Watt-Harley-Holmes Co.
GAINESVILLE—Gainesville Iron Works
MACON—Mallory Mill Supply Co.
Schofield's, J. S. Sons Co.
MONROE—Felker, J. H.
ROME—Terhune-Nixon Co.
SAVANNAH—Frank, Leo
Georgia Supply Co.
Hartfelder-Garbutt Co.
Palmer Hardware Co.
Peeples, H. H. & Sons
Weed, J. D. & Co.
TIFTON—Slack, S. G. & Co.
*Tift, H. H.
TOCCOA—Matheson, W. A.
Simpson, D. J.
WAYCROSS—Trent, F. B.

IDAHO.

BOISE—Carlson-Lusk Hardware Co.
LEWISTON—Cash Hardware Co.
WALLACE—Coeur, D'Alene Hdw. Co. (Also Mine)

ILLINOIS.

BELLEVIEW—Karr Supply Co.
BLOOMINGTON—Kelser-Van Leer Co.
CAIRO—Reed, J. B.
CHICAGO—Advance Packing & Supply Co., 55 S Canal
*Allen, W. D. Mfg. Co., 151 Lake
Atlas Belting Co., 132 E Lake
Besly, C. H. & Co., 15 S Clinton
Brand, S. H. & Co., 99 W Monroe
Calumet Supply Co., 411 Dearborn
CARPENTER, GEO. B. & CO., 202
S Water. (See adv. index, end of book)
Channon, H. Co., 32 Market
*Chicago Belting Co., 67 S Canal
Chicago Engineers' Supply Co., 112 Lake
Chicago House Wrecking Co., W 35th & Iron
*Chicago Rawhide Mfg. Co., 75 E Ohio
Clow, Jas. B. & Sons, 344 Franklin
Crane & Co. (Est. 1855), 517 S Canal. (See adv. index, end of book)
Crawford, W. H. Co., 167 Plymouth ct
Crerar, Adams & Co., 11 5th av
Curtis & Co. Mfg. Co., 42 S Canal
*Diamond Rubber Co., 1523 Michigan av
DODGE MFG. CO., 163 S Clinton.
(See adv. index, end of book)
FAIRBANKS, MORSE & CO., cor
Franklin & Monroe. (See adv. index, end of book)
*Gould Co., 22 N Canal
*Graton & Knight Mfg. Co., 165 E Lake
*Gutta Percha & Rubber Mfg. Co., 224 E Randolph
*Hamilton Rubber Mfg. Co., 161 Lake
Henion & Hubbell, 63 N Jefferson
*Hercules Mfg. Co., 4328 Greenwood av
*Home Rubber Co., 54 S Canal
*Jewell Belting Co., 175 E Lake
*Ladew, Edw. R. (Est. of), 135 E Lake
*Lynch, Edw. & Co., 19 S Canal
Lyon, Samuel & Son, 8 N Canal
McMaster-Davis Supply Co., 160 E Lake
*Main Belting Co., 55 Market
MANNING, MAXWELL & MOORE,
22, 24, 26 S Canal. (See adv. index, end of book)
*Mechanical Rubber Co., 230 Randolph
*Maloney-Bennett Belting Co., 76 Franklin
*Munson, Chas. Belting Co., 88 Franklin
*New York Belting & Packing Co., 150 Lake
*N. Y. Leather Belting Co., 38 S Canal
*Norwich Belt Mfg. Co., 33 N Canal
*Page Belting Co., 16 N Canal
Plamondon, A. Mfg. Co., 57 S Clinton
*Puster Belting & Pulley Co., 40 S Canal

*Revere Rubber Co., 168 Lake
RUMSEY & CO. (Ltd.) (Adkins, Young & Allen Co., Agt.). (See adv. index, end of book)
Salisbury, W. H. & Co., 109 Madison
*Schieren, Chas. A. & Co., 84 Franklin
Seehausen, Wehrs & Co., 11 S Canal
Skillin & Richards Mfg. Co., 127 Fulton
SPRAGUE CANNING MACHINERY
Co. (of all kinds for Cannery, etc.), 42 River. (See adv. index, end of book)
STANDARD SCALE & SUPPLY CO.,
50 S Canal. (See adv. index, end of book)
Street, R. R. & Co., 184 Wash'n
Thornburgh, H. L. & Co., 251 S Jefferson
Trench, Dan'l G. & Co., 42 River
Walsh, Jno. F., 25 W Lake
Webster Mfg. Co., 1075 W 15th
WELLER MFG. CO., 118 E North
av. (See adv. index, end of book)
*Williams, I. B. & Sons, 17 W Lake
Winne, Howard B., 34 W Monroe
Wolf, Fred W. Co. (Packing, Pipe, Coverings, etc.), 141 Rees
Woodcock Bros., 32 N Canal
DANVILLE—Conron, Thos. Hardware Co.
DECATUR—Oakes, Wm. L.
FAIRFIELD—Martin, E. A.
GALESBURG—Stilson & Waste
HOOPESTON—Sprague Canning Machinery Co.
KANKAKEE—Norris & Frith
MARSEILLES—Marseilles Mfg. Co.
METROPOLIS CITY—Harris & Cole Bros.
MOLINE—Barnard & Leas Mfg. Co.
OTTAWA—Jordan, R. C.
Poundstone-Reñor Hdw. Co.
PEORIA—Bittel, Wm.
Kinsey & Mahler Co.
PRINCETON—Priestley Hardware Co.
QUINCY—Central Iron Works
Grimm, Oscar E.
ROCKFORD—Blake, J. C. Heating Co.
Savage & Love Co.
SPRINGFIELD—Miller, W. B. & Son

INDIANA.

ATTICA—Green, La Monte M.
CARLISLE—Risinger & Ellis
COLUMBUS—Schwartzkopf, J. G. & Son
EVANSVILLE—Anchor Supply Co.
Evansville Leather & Belting Co.
Heilman Machine Works
Laib Co.
FORT WAYNE—Baltes Supply Co.
Fort Wayne Oil & Supply Co.
National Mill Supply Co.
Peters, Jno. C.
Pfaffner, Henry & Son
Schlatter, C. C. & Co.
GOSPORT—Burkett, A. H.
GREENSBURG—Corbett & Rohe
Meek & Wooden
Mendenhall & Spilman
INDIANAPOLIS—Atkins, E. C. & Co., 402 S
Barry Saw Co., 228 S Penn
Central Rubber & Supply Co., 229 S Meridian
Duckwall-Harman Rubber & Supply Co., 114 S Penn
FAIRBANKS, MORSE & CO. (of
Chicago, Ill.), 140 S Meridian. (See adv. index & branch offices, end of book)
*Hide & Leather Belting Co., 227 S Meridian
Indianapolis Belting & Supply Co., 18 S Capitol av
Knight & Jillson Co., 121 S Penn
Miller Oil & Supply Co., 352 S Meridian
Nordyke & Marmon Co., 1101 W Morris
Taylor Belting Co., 247 S Meridian
Van Camp Hdw. & Iron Co., 401 W Maryland
Vonnegut Hdw. Co., 120 E Wash'n
KNIGHTSTOWN—Parker & Albertson
LAFAYETTE—Johnson-Barnes Hdw. Co.
Reule, Fredk.
LOGANSPOUT—Crawford, Isaac N.
Johnson, M. L.
Rice, E. S. & Son
Ullery, S. W. & Son
MARION—Hogin, McKinney & Co.
Marion Hdw. Co.
Price & Co.
MISHAWAKA—**DODGE MFG. CO.** (See adv. index, end of book)
MUNCIE—Kelser, Geo. & Co.
RICHMOND—Jones Hdw. Co.
Richmond City Mill Works
TERRE HAUTE—Austin, A. G. & Co.
Smith's, C. C. Sons' Co.

INDIAN TERRITORY.

PURCELL—Berlinger Hardware Co.

IOWA.

BONAPARTE—Blackford, W. S. & A. V.

BURLINGTON—Murray Iron Wks. Co.
Stewart & Hayden Co.

CEDAR RAPIDS—Carmody, J. T.
Fawcett, C. E.

DAVENPORT—Davenport Heating & Plumbing Co.

DES MOINES—Dempster Co., 211 E Court av
Des Moines Mfg. & Supply Co., 1st 2 Court
Drake Roofing Co., 210 5th
*Globe Machinery & Supply Co., 416 Court av

Iowa Machinery & Supply Co., 317 Court av

DUBUQUE—Deckert, W. D. Co.

Dubuque Turbine & Roller Mill Co.

Haney-Campbell Co.

McDonald, A. Y. & Morrison Mfg. Co.

ELMORA—Brown Bros. Foundry & Machine Co.

FORT DODGE—Leighton Bros.

HAWARDEN—Brunsill, D.

LE MARS—Pech, Gustave Fdy. & Mfg. Co.

MARSHALLTOWN—Shorthill, A. E. Co.

MORNING SUN—Selzer Hardware Co.

NORTHWOOD—Tenold Bros.

OTTUMWA—McDaniel, C. E.

SIoux CITY—Crane Co. (of Chicago, Ill.). Est. 1855. (See adv. index, end of book)

WATERLOO—Cutler Hardware Co.

Waterloo Mfg. Co.

WAVERLY—Hohnsbehn, C. & Sons

KANSAS.

ENTERPRISE—Barnard Machinery Co.

ESKRIDGE—Trusler, Wm.

FORT SCOTT—Penneman, A. C. & Son

GLASCO—Davidson, L. F. & Co.

IOLA—Shannon, T. B.

JUNCTION CITY—Muenzenmayer, J. J. & W. F.

LEAVENWORTH—Great Western Mfg. Co.

WICHITA—Rodolf, R. O.

KENTUCKY.

ASHLAND—Henderson, Thos. & Son

HENDERSON—Alves, Thos. D.

Blackwell, P. A. & Co.

LEBANON—Johnston, C. B.

LEXINGTON—Smith, Watkins & Co.

LOUISVILLE—Ahrens & Ott Mfg. Co., 325 W Main

Belknap Hardware & Mfg. Co. (Inc.), 2d & Washington

Cowan, Andrew & Co., 435 W Main

FAIRBANKS, MORSE & Co. (of Chicago, Ill.), 519 W Main. (See adv. index, end of book)

Hite, W. W. & Co., 154 4th

Kentucky Saw Works, 925 W Main

Laib Co., 439 W Main

Neill, W. H., 507 W Main

Pyne, W. T. Mill & Supply Co., 1301 W Main

Semple, W. & A. C., 311 W Main

Todd-Donigan Iron Co., 817 W Main

Waters-Garland Co., 433 W Main

LUDLOW—Harwood, Thos.

OWENSBORO—Guenther, W. & Sons

PADUCAH—Scott Hdw. Co.

SOMERSET—Hunt, L. O.

LOUISIANA.

BATON ROUGE—Doherty Hardware Co.

DONALDSVILLE—Lemann, B. & Bro.

JENNINGS—Dobbins Iron Works (Ltd.)

LAFAYETTE—Lacoste Hardware Co.

NEW ORLEANS—Baldwin, A. & Co. (Ltd.), Camp & Common

Bancroft, Ross & Sinclair Co., Tulane & S Hagen avs

Chicago Belting Co., 406 Carondelet

Gibbens & Stream, 213 Canal

Hauptman & Loeb Co. (Ltd.), 222 S Peters

Kracke & Flanders, 630 Gravier

McArdle, P. H., Erato & Clara

Menge, J. H. & Sons (Ltd.), 210 Tchoupitoulas

Murphy, Jno. H., 643 Magazine

Patterson, C. T. & Co. (Ltd.), 404 Carondelet

Payne & Joubert, 423 Carondelet

*Revere Rubber Co., 700 Baronne

Simonds Mfg. Co. (Ltd.), Gravier & Tchoupitoulas

Southern Belting Co., 720 Union

Stauffer, Eshelman & Co., Canal & Dorsiere

White, A. H. Co., 532 Gravier
Whitney Supply Co., 108 N Peters
Whitney & Sloo Co. (Ltd.), 733 Tchoupitoulas
Woodward, Wight & Co., 410 Canal
SHREVEPORT—Henderson, W. K. Iron Works
Lee Hdw. Co. & Supply Co.
Means, L. J. Machinery Co.
Vordenbauman-Eastham Co.

MAINE.

AUGUSTA—Brooks Hardware Co.

BANGOR—Schwartz's, M. Sons, 213 Exchange

Snow & Neally Co.

Taylor, Abner, 122 Exchange

Union Iron Works

BATH—Johnson Bros.

BIDDEFORD—Loorn Picker Co.

EASTPORT—Martin, E. S. & Son

GARDINER—Decker & Day Hdw. & Coal Co.

LEWISTON—Craig & Scott

Dickey, H. H. & Son

Hall & Knight Hdw. Co.

Stetson, J. H. Co.

Whitney, Geo. A. & Co.

MECHANICS FALLS—Penny, J. W. & Sons Co.

PORTLAND—Adde & Co., 59 Kennebec

Barbour, J. & E. R., 8 Exchange

Blake, W. L. & Co. (Inc.), 79 Com'l

Corey, E. & Co., 197 Com'l

Cheney, Henry L. & Co., 468 Fore

Edwards & Walker Co., 5 Monument sq

Emery-Waterhouse Co., 145 Middle

Gerrish, J. J. Supply Co., 41 Com'l

King & Dexter Co., 11 Monument sq

Merrill, T. L. Co., 228 Middle

Portland Rubber Co., 259 Middle

ROCKLAND—Crie, H. H. & Co.

SACO—Beatty, Janson W. & Co.

WATERVILLE—Clafin, Mark T.

MARYLAND.

BALTIMORE—Aumen Machinery & Supply Co., 324 N Holliday

Boyd Rubber Co., 17 W Fay

Carey Machinery & Supply Co.

Central Metal & Supply Co., 609 E Lombard

Coggins & Owens, 19 S Charles

Crane Co. (of Chicago), Est. 1855. (See adv. index, end of book)

Crook, Horner Co., 301 N Howard

Cuyler & Mohler, 611 William

*Gandy Belting Co., 728 W Pratt

Kessel, Henry A. Co., 121 S Gay

Knight, Octavius W., 513 Fdk. av

Maryland Belting & Packing Co., 506 S Dallas

Sackett, August J., 5th av & 1st

Schuchts, D. B., 215 President

Spedden Supply Co., 913 S B'way

Standard Supply & Equipment Co., 306 N Holliday

Starr, B. F. & Co., 455 North

Stebbins, Wallace & Sons, c Charles & Lombard

Wallace & Gale (Oils, Coverings, Compounds, etc.), 115 S Gay

CUMBERLAND—McKaig, Merwin (Also Mine)

FREDERICK—Quynn, A. G. & Co.

SALISBURY—Dorman-Smyth Hdw. Co.

MASSACHUSETTS.

ARLINGTON—Birch, A.

ATHOL—Paige, C. F. & Co.

ATTLEBORO—Gifford, James W. Co.

AYER—Proctor, E. A.

BOSTON—American Shuttle Co., 53 State

American Steam Packing Co., 51 High

Anderson, Geo. P., 163 Oliver

Avery Chemical Co., 7 Sears

Basset, Elmer C., Norfolk Downs, Mass.

*Bay State Belting Co., 119 Franklin

Best, Edw. H. & Co., 224 Purchase

Bestoking Packing & Supply Co., 170 Summer

*BOSTON BELTING CO., 256 Devonshire. (See adv. index, end of book)

Boston Engineers' Supply Co., 56 Purchase

Boston Steam Specialty Co., 168 Congress

Bowers, L. M. Co., 451 Atlantic av

Braman, Dow & Co., 239 Causeway

Brown, Frank H., 134 Congress

Brown-Wales Co., 69 Purchase

Chandler & Farquahr Co., 36 Federal

Ohesterston, A. W. & Co., 64 India

*Chicago Rawhide Mfg. Co., 139 Congress

Clafin, Chas. A. & Co., 50 High

Crane Co. (of Chicago), Est. 1855. (See adv. index, end of book)

Curry Oil & Supply Co., 284 Franklin

Dewey, F. O. Co., 28 Canal

Dodge, Haley & Co., 153 Broad

DODGE MFG. CO., 137 Purchase. (See adv. index, end of book)

Eagle Oil & Supply Co., 104 Broad
English, Charles R., 300 Congress
Fitts, Frank E. Mfg. & Supply Co., 88 Purchase
Foley, James & Co., 89 High
Gallison, Wm. H. Co., 36 Oliver
Garlock Packing Co., 43 High
Gilchrist, Geo. E. Co., 106 High
Greenwood Mfg. & Supply Co., 147 Milk
Hamblet & Hayes Co., 105 Summer
Hardware Agency Co., 224 Franklin
Haskell, Edward H., 176 Federal
Hinds & Coon, 126 Pearl
Holmes & Blanchard Co., 39 Wash, N
Hub Wire Cloth & Wire Work Co., 13 Devonshire

Hunt, Henry C. & Co., 32 Oliver

Ireson, Chas. L., 221 High

Kessel, Henry, A. Co., 165 Milk

Knowlton, Geo. W. Rubber Co. (Mechanical Rubber Goods & Engineer's Supplies), 88

Knowlton Packing Co., 14 L Broad

*Ladew, Edw. R. (Est. of), 228 Franklin

MacLean Oil & Supply Co., 453 Atlantic av

MANNING, MAXWELL & MOORE, 128 Oliver. (See adv. index, end of book)

McKerrow, H. G. & Co., 31 State

Morrison, Wm. A., 34 Oliver

Morton, A. M. & Co., 25 Washington

Mulliken, Chas. F. Oil Co., 200 Friend

Murphy, Leavens & Co., 12 Devonshire

Nightingale & Childs, 310 Congress

Noyes Mfg. Co., 15 Storer

Packard & Co., 166 Commercial

*Page Belting Co., 31 Pearl

Phillips Co., Winter Hill

Reilly, C. E. Co., 65 Franklin

Robins Conveying Belt Co., Exchange bldg

Ruben, Max W. (Second Hand), 308 Atlantic

Russell, J. H. & Co., 93 Broad av

Shackley, W. T. & Son, 49 High

Shultz Belting Co., 114 High

Speed & Stevenson, 170 Summer

*Stevens, E. E. & Co., 134 Congress

Stoddard, Hasek Richards Co., 152 Congress

Walworth Mfg. Co., 132 Federal

Wilkinson, A. J. & Co., 180 Wash'n

FALL RIVER—American Supply Co., 104 Hart-

Borden, Jefferson & Son, 288 Locust

Borden & Remington, 111 Anawan

Buffington, Joseph L., 552 Maple

Covel & Oborn Co., 139 Pleasant

Davis, N. Frank, 78 Bedford

Hill & Luther

Luther Reed Mfg. Co., 2060 S Main

McLeod, Wm., 136 Central

Neill, Joseph O., 130 Bedford

Sterling Mfg. Co., 221 Pocasset

Sylvester, C. F. & Co., 31 N 7th

Toohey, Michael J. & Co., 809 Stafford rd

Union Belt Co., 66 Troy

FITCHBURG—Fitchburg Hardware Co.

Johnson, W. C.

Lawrence Sons & Co.

Parks, G. M. Co.

Wachusett Machine Co.

FRANKLIN—Milliken, L. W. & Son

GLOUCESTER—Stoddard, A. P. & Co.

GREENFIELD—Allen's, S. Sons

HOLYOKE—Chas. & Coledge Co.

Russell, G. E. & Co.

Russell, J. & Co.

Wells, E. D. & Co.

LAWRENCE—Austin, M. E. & Co., 205 Essex

Barlow, John W. Co., 81 Holly

Burham, E. E. Co., 252 Lowell

Hall, D. S. & Son, 381 Essex

Sanborn & Robinson, 361 Essex

Treat Hdw. & Supply Co., 584 Essex

LEICESTER—Watson, L. S. Mfg. Co.

LEOMINSTER—Garvin Hardware Co.

LOWELL—Adams Hardware & Paint Co., 404 Middlesex

Barker, H. R. Mfg. Co., 158 Middle

Bartlett, W. T. S., 653 Merrimack

Bartlett & Dow, 216 Central

Cady, George L. & Sons, 2 Fletcher

Cheney, P. W. & Co., 547 Middlesex

Clark, Jeremiah Mely, Co., 32 Perrin

Coburn, C. B. & Co., 63 Market

Hutchins, Geo. E., 107 Central

Lowell Machine Shop, Dutton

Smith & Lawrence, 47 Market

Stead Tanning & Supply Co.

Thompson Hardware Co., 254 Merrimack

Turner, J. S. Mfg. Co., 398 Middlesex

NORTH ADAMS—Burlingame & Darby's Co.
Hardenbergh, Jas. W.
NORTH CHELMSFORD—*North Chelmsford
Machine & Supply Co.
NORTH EASTON—New England Specialty Co.
ORANGE—Chase Turbine Mfg. Co.
PALMER—Buck, E. A. & Co.
PEABODY—Whidden, A. H. & Son
PITTSFIELD—Berkshire Mill Supply Co.
SALEM—Kelton-Bruce Mfg. Co. (Mill Strap-
pings)
SOMERVILLE—Birch Bros.
SPRINGFIELD—Clark, Simpson, 157 State
Foot, Homer & Co., Main c State
Graves, Geo. A. & Sons, 324 Main
Hampden Supply Co., 65 Lyman
Hannan & Finton, 19 Sharon
Hitchcock Supply Co. (Jobbers), 74 Dwight
Law, J. Douglas, 260 Main
Stacy, E. S. Machine Co., 41 Taylor
WYCOFF & LLOYD CO., 35 Ly-
man. (See adv. index, end of book)
TAUNTON—Dary, Marcus A.
Pierce Hardware Co.
TURNERS FALLS—Webster, F. I.
WALPOLE—Rooney, Jno. B.
WORCESTER—Braman, Dow & Co. (of Bos-
ton), 214 Summer
Burlingame, A. Co., 22 Cypress
Crawford & Co., 663 Main
Dixon, Geo. S., 224 Front
Elliott & Hall, 54 Hermon
Fairbanks & Boynton Co., 49 Vine
*Graton & Knight Mfg. Co., 98 Bloom-
dale rd
Howe, G. S. & A. J. Co., 115 Exchange
***HUDSON BELTING CO.** (See adv.
index, end of book)
Mason Brush Works, 553 Main
Steele, A. H. & Bro.
*Warren, J. F. & W. H. Co., 44 Vine
Worcester Rubber Co., 324 Main

MICHIGAN.

ALPENA—Kline, Lewis T.
Potter Bros.
AUSABLE—Richards, R. A.
BATTIE CREEK—Brockett, L. B. & Son
BAY CITY—Bialy Hardware & Supply Co.
Jennison Hardware Co. (also Vessels)
McDonnell Hardware Co.
BIG RAPIDS—Judson, C. P. & Co.
CALUMET—Carlton Hdw. Co. (Also Mining)
CHEBOYGAN—Post, J. J. Hdw. Co.
DETROIT—Anderson, Kenneth Mfg. Co., 35 At-
water, E
Bush-Campbell Co., 64 Congress, E
Century Supply Co., 439 Gnoin
Conkling, S. P. (Pipe Coverings, etc.), 20 At-
water, E
Detroit Engineer Supply Co., 12 Atwater, W
Dutton, J. B., 1026 Scotten av
Edwards, H. D. & Co., 16 Woodward av
FAIRBANKS, MORSE & CO. (of
Chicago, Ill.), 89 Jefferson. (See adv. in-
dex, end of book)
Harvey's, A. Sons Mfg. Co. (Ltd.), 1st &
Woodbridge
Johnson, Jno. & Co. (Pipe & Boiler Cover-
ings), 368 Gratiot av
Kendrick, Ussher Co., 405 Wetherbee bldg
Muzzy-Lyon Co., 58 Woodward av
Ridgley, R. B., 14 Atwater, E
Roe, J. A. & Co., 12 Atwater, E
Sales & Broad Co., 76 Jefferson av
Strelinger, Chas. A. Co., 98 Bates
Walker Mfg. & Supply Co., 136 W Larned
Wing, J. T. & Co. (Leather), 15 Woodward
Wormer, C. C. Mach'y Co., (Power Trans-
mission Supplies, etc.), 99 W. Woodbridge
DOWAGIAC—Bishop, Geo. E. Hardware Co.
Onen Hdw. Co.
GRAND RAPIDS—Adams & Hart, 12 W Bridge
Brandy, M. & Sons, 20 Alabama
Brown & Sehler Co., c W Bridge & N Front
Grand Rapids Supply Co., 24 Pearl
Hayden, J. M. & Co., 62 Pearl
*Studley & Barclay, 68 Pearl
HOUGHTON—Portage Lake Hardware Co.
(Also Mine)
Swift, I. E. & Co. (Also Mine)
IRON MOUNTAIN—Rundle, A. J. (Also Mining)
IRONWOOD—Lesselyoung Hardware Co. (Also
Mining)
ISHPEMING—Egan, Fred J.
JACKSON—Holton & Weatherwax Co. (Ltd.)
Smith & Winchester Hardware Co.
Warner Hdw. Co.
LANSING—Michigan Supply Co.
MANISTEE—Miller, Wm.
Wolters-Baley Co.
MARQUETTE—Manhard, M. R.
MARSHALL—Casper Hdw. Co.
MIENOMONEE—Emerson Supply Co.
Northern Hardware & Supply Co.
MUSKEGON—Howden, J. J. Co.
People's Hardware Co.

Rubinsky, Henry
Towner Hardware Co.
PAW PAW—Waters, H. C. & Co.
PETOSKEY—Reynolds, Chas. A.
PORT HURON—Port Huron Engine & Thresher
Works
REED CITY—Callaghan, M. M. Co.
SAGINAW—Michigan Saw Co.
Morley Bros. (Inc.)
Saginaw Hardware Co.
Saginaw Mfg. Co.
ST. IGNACE—Kynoch, Chas. & Co.
SHELBY—McKinnon, A. R.
Rankin, A. J.
SAULT STE MARIE—Soo Hardware Co.
STANTON—Pierson, Jno. W. S. & Co.
TECUMSEH—Satterthwaite Bros.
Whittenack, D. L. & Co.

MINNESOTA.

CLOQUET—Fish, L. A. & Co.
DULUTH—Crane Co. (of Chicago, Ill.), Est.
1855. (See adv. index, end of book)
Duluth Hdw. Co.
Kelley-How-Thomson Co.
Marshall-Wells Hardware Co.
MINNEAPOLIS—Atkins, E. C. & Co., 122
Washington av
Central Supply Co., 251 3d av. S.
Crane Co. (of Chicago), Est. 1855. (See adv.
index, end of book)
Engineering & Steam Supplies Co., 227 S 3d
FAIRBANKS, MORSE & CO., 220
Nicollet av. (See adv. index, end of
book)
Gilmore, D. M. Co., 515 S 3d
Harris Machinery Co., 1025 Wash'n av. S. E.
Howell, R. R. & Co., 31st av. S. E. 4th
Janney, Sempie Hill & Co., 1st av S & 22d
Morison W. K. & Co., 247 Nicollet av
Northern Machinery Co., 217 S 3d
*Nott, W. S. Co., 1st av S & 2d
Plant Rubber Co. (Leather, etc.), 320 1st
av. N
Plumbing & Steam Fitting Supplies Co.,
214 N 1st
Reeves, Thos. H. Co., 204 Nicollet av
Sanford, Chas. E. & Co., 202 Wash'n av, N
Willford Mfg. Co., 303 S 3d
MORA—Mellhargey, S. D.
ROCHESTER—Fox, Irving W.
ST. CLOUD—Dyer & Rosenberger
ST. PAUL—Crane Co. (of Chicago), Est. 1855.
(See adv. index, end of book)
Crane & Ordway Co., 250 E 4th
FAIRBANKS, MORSE & CO., 234
E 3d. (See adv. index, end of book)
*Goodyear Rubber Co., 375 Sibley
Robinson & Cary Co., 4th c Waconta
Western Supply Co., 348 Waconta
STILLWATER—Stillwater Machine Shop &
Supply Co.
THIEF RIVER FALLS—Bailey & Diebold
Red Lake Falls Milling Co.
WINONA—Cone, R. D. & Co.

MISSISSIPPI.

CLARKSDALE—Delta Hdw. Co
JACKSON—McDonnell, Jno. & Son
MERIDIAN—Staple, Geo. W.
NATCHEZ—Feltus Bros.
VICKSBURG—Richardson, Lee & Co.

MISSOURI.

JOPLIN—Freeman, J. W. (Also Mine)
Joplin Supply Co.
McNeal & Co.
KANSAS CITY—Burton, C. A. Machinery Co.
(Belting, etc.), 2d & Main
Byrnes, Jas. W. Belting & Hose Co., 1320
W 11th
Crane Co. (of Chicago), Est. 1855. (See adv.
index, end of book)
English Iron Works Co., 410 W 5th
FAIRBANKS, MORSE & CO., 1217
Union av. (See adv. index, end of book)
*Goodyear Rubber Co., 807 Main
Great Western Mfg. Co., 1221 Union av
Gustin-Bacon Supply Co., 1408 W. 11th
Lewis Supply Co., 1300 W 11th
Mercantile Lumber & Supply Co., 906 Bal-
timore av
Richards & Conover Hdw. Co., 5th c Wyau-
Shawnee & Bird
Strait, H. N. Mfg. Co.
U. S. Water & Steam Supply Co., 1315 W
12th
Young, W. B. Supply Co., 212 Delaware av
MALDEN—Malden Machine Works (also Lam-
hermen's)
MOBERLY—Fussler, J. Mfg. Co.
ST. JOSEPH—Horgan Supply Co., 209 S 4th
Lewis Supply Co., 115 S 4th
McCord Rubber Co., 104 S 3d

ST. LOUIS—Barry-Wehmiller Machinery Co.,
21st & Walnut
Biggers, W. D. & Co., Merchants-Lacade
bldg, St. Louis, Mo.
Branch Saw Co., 817 N 2d
Byrnes, J. W. Belting & Hose Co., 914 N
2d
*Capen Belting & Rubber Co., 413 N Main
Connor, Thos. J., 511 Main.
Cornelius Mill Furnishing Co., 1119 N 6th
Crane Co. (of Chicago), Est. 1855. (See adv.
index, end of book)
Day Rubber Co., 415 N 4th
Dehner-Wuerpel Mill Building Co., 1607 S
3d

DODGE MFG. CO., 507 N Main.
(See adv. index, end of book)

Essmueller Mill Furnishing Co., 605 S 6th
FAIRBANKS, MORSE & CO., 8th
& Clark av. (See adv. index, end of
book)
Fisher & Davis, 1024 N Main
Handlan-Buck Mfg. Co., 212 N 3d
Hartmann, E. Hide & Leather Co., 1905
Shenandoah av

Hazzard, A. B. Machinery Co., 615 N 2
Hynson Tool & Supply Co., 11 S 10th
Johnson, Moses P. Machy Co., 715 N 2d
Johnson, Wm. C. Sons Mach. Co., 210 Wash-
ington av

Kay-Pim Mfg. Co., 11th & Mullanphy
Leschen, A. & Sons Rope Co. (Belting,
Packing, etc.), 920 N 1st

MANNING, MAXWELL & MOORE,
305 Frisco bldg. (See adv. index, end of
book)

*Missouri Belting Co., 120 S Commercial
Nelson, N. O. Mfg. Co., 10th & Chestnut
*New York Belting & Packing Co. (Ltd.),
218 Chestnut

Norvell-Shapleigh Hdw. Co., 4th & Wash'n
Powell Co., 500 N 2d

RUMSEY, L. M. MFG. CO. (Bel-
ting, Packing, etc.) (See adv. index, end
of book)

Rumsey & Sikemeler Co., 1900 Pine
Shultz Belting Co., 402 Barton
Spring Belting Co., 715 N 2d
St. Louis Belting & Supply Co., 509 S 4th
Teuscher & Son Machinery Supply Co., 923
N 2d

Western Iron Supply Co., 938 N 2d
Whitelaw Bros., 409 N 2d
*Williamsen, Chas. Mfg. Co., 810 N 6th
Yerkes & Finan Woodworking Machine Co.,
9th & Dock

SPRINGFIELD—Moore Mfg. Co.
WEBB CITY—Webb City Iron Wks.

MONTANA.

ANACONDA—Anaconda Copper Mining Co.
BUTTE—Anacouda Copper Mining Co.
Montana Hardware Co.
GREAT FALLS—Lowery Engineering Co.
HELENA—Holter, A. M. Hardware Co.
MISSOULA—Missonla Mercantile Co.

NEBRASKA.

LINCOLN—Cooper & Cole Bros.
Smith, R. L. Machine Wks.
OMAHA—Baum Iron Co., 1223 Harney
Crane Co. (of Chicago), Est. 1855. (See
adv. index, end of book)
FAIRBANKS, MORSE & CO. (of
Chicago), 1102 Farnham. (See adv. in-
dex, end of book)
Lehmer, Jos. R., 1218 Farnam
Sniderland Roofing & Supply Co., 1006 Har-
ney
U. S. Supply Co., 1108 Harney
Western Electrical Co., 1807 Douglas
YORK—York Fdry. & Engine Works

NEW HAMPSHIRE.

BERLIN—Burbank, E. A.
CONCORD—Page Belting Co. (Belting, Hooks,
Tools, etc.)
Thompson & Hoagne Co.
LACONIA—Quinby, A. T. & Son
LAKEPORT—Cole Mfg. Co.
LANCASTER—Thompson Mfg. Co.
MANCHESTER—Felton, S. A. & Son Co.
(Brushes)
Hobbs, Alfred K.
Lane, Thos. A. Co.
Manchester Hardware Co.
Varick, Jno. B. Co.
NASHUA—Barr Hardware Co.
Grover, J. B. File Co.
Nashua Hdw. Co.
SOMERSWORTH—Sweetser-Sanborn Co.

NEW JERSEY.

ELIZABETH—Bucklacker Bros.
Elizabeth Hardware Co.
JERSEY CITY—Gibbons, Ernest A., Hudson & Morris

Jersey City Supply Co., 12 Mercer
Johnson, Henry Co., Gates av & boul
Perkins, Arthur L., 283 Warren
MADISON—Force, Chas. C. & Son
NEWARK—Banister & Pollard, 206 Market
Conover, J. B. Co., 47 Mechanic
Crabb, Wm. & Co., 3d av c 4th
Diamond, M. Supply Co., 558 Broad
Gray, R., Jr., 190 Market
*Ladew, Edw. R. (Est. of), 307 Market.
Macknet & Doremus, 796 Broad
Meier's, Jos. Sons, 306 Market
Newark Engineering & Mill Supply Co., 26
Roe & Conover, 200 Market Lawrence
*ROSSENDALE - REDDAWAY
Belting Hose Co., 32 Euclid av. (See adv.
index, end of book)

Sheppard, Wm. S., 21 Lawrence
Walker, C. W., 274 Market
NEW BRUNSWICK—Weigel, Phillip, Jr.
ORANGE—Lindsley, Jno. N.
PASSAIC—New Jersey Engineering & Supply Co.

PATERSON—Cleaver & Leather, 159 Madison
Ferrary & Schauble Co., W 30th n W 18th
Frost, Geo. T. C. Sons, 565 E 23d
Hall, I. A. & Co., 30 Hamilton av
Low, F. Elliot Co., 58 Fair
Muzzy Bros., 146 Main
Natl. Mill Supply Co., 118 Railroad av
Paterson Mill Supply Co., 205 Paterson
Patterson, Reed & Harness Co., 235 Ellison
Quackenbush & Sou, 81 B'way
Quinn Bros., 9 Fair
Renkel, Reed & Harness Co.
Rodgers, David G. Co., 204 Van Houten
Ulrich & Co., 60 Railroad av
Van Riper Mfg. Co., 14 Van Houten
Van Winkle, J. A. Co., 168 Main
Walder, Jacob, 188 River

PERTH AMBOY—Elizabeth Hardware Co.
McCormack, W. H.
TRENTON—*Crescent Belting & Packing Co.
Crook, A. M. & Son
Hunt, Jas. B. Mfg. Co.
Katzenbach, F. S. & Co.
Lanning, G. W.
Wallace, M. E. Mfg. Co.
Warren, Balderston & Co.
WEEHAWKEN—Berger, Edw. W. & Bro.

NEW YORK.

ALBANY—*Albany Belting & Supply Co., 372
B'way

Stoneman, M. G. & Son, 414 B'way
Wheeler & Wilson Mfg. Co., 94 Hndson av
AMSTERDAM—Gardner, E. W. Co.

Kolb, Frank E.
BINGHAMTON—Gaylord & Eltapence Co.
Morse, E. W. & Co.

BROOKLYN—(See New York City, Borough of Brooklyn)

BUFFALO—Reals & Co., 46 Terrace
*BICKFORD & FRANCIS BELTING
Co., 37 Pearl. (See adv. index, end of book)

BOSTON BELTING CO., 90 Pearl.
(See adv. index, end of book)

Budd, T. A., 428 Ellicott sq
Buffalo Belting Works, 139 Wash'n
Buffalo Mercantile Co., Ellicott sq
Buffalo Mill Supply Co., 210 Main
Buffalo Wholesale Hdw. Co., Wash c S
Division

Case, W. A. & Son Mfg. Co., 31 Main
Fairbanks Co., 145 Seneca
*Goodyear Tire & Rubber Co., 1719 Main
Graton & Knight, 292 Main
Hall & Kemp, 18 E Eagle
Hendee, A. M., Erie Co. Bank bldg
Hoffeld, R. & Co., 61 Carroll
Iroquois Rubber Co., 45 Pearl
Leech, H. W. Rubber Co., 18 Swan
McCutcheon, C. H., 18 Ohio
Newman, W. H. H. & Co., 70 Main
Noye Mfg. Co., 50 Lakeview av
Peerless Belting Co., 105 Main
Plumbers' & Steam Fitters' Supply Co., 246
Main

Prinz & Rau Mfg. Co., 76 Ellicott sq
Root, Neal & Co., 178 Main
Ruckel, J. H. & Son, 81 Main
Sculer, Geo. L. Mfg. Co., 490 B'way
Walbridge & Co., 392 Main
Weed & Co., 95 E Swan
CARTHAGE—Strickland, J. E. & Son
Wing, F. M.
COHOES—Chedydeur, J. B. Co.
Kavanaugh, Geo. W.

Laughlin, Edwin B.
Laughlin, John
Sutherland, Dan'l M.
Sweet & Doyle
GLENS FALLS—Kälbfelsch, Theo. F.
GLOVERSVILLE—Batcheller, E. S. & Co.
Sowle, J. E.
GOUVERNEUR—Loveland, M. E.
HAVERSTRAW—Lane, Chas. R.
HUDSON—Murphy, E. W. & Co.
ITHACA—Treman, King & Co.
JAMESTOWN—Clarke Hdw. Co.
KINGSTON—Canfield Supply Co.
LITTLE FALLS—Burney Bros.
Burrell, D. H. & Co. (For Creamery &
Cheese Factorles, etc.)
Taylor, Jno. R. & Co.
LONG ISLAND CITY—(See New York, Bor-
ough of Queens)

NEW YORK CITY.

Borough of Brooklyn.

BROOKLYN—DODGE MFG. CO., 217
37th. (See adv. index, end of book)
Jacobs, Geo. P. & Co., 276 S 9th
Kiley, Thos. W. & Co., 57 Grand
Knight, Thos. G. Co., 52 Myrtle av
Livingston, Wm. & Frank L., 193 Berry
Long Island Machinery Co., 7 Wash'n av
McElraevy & Hauck Co., 440 B'way
Morse Dry Dock & Repair Co., ft 58th
Munkenbeck Bros., 88 Hamilton av
Phillips, Doup & Co., 56 Pearl
Simpson, J. S. & G. F., 26 Rodney

Boroughs of Manhattan & Bronx

NEW YORK—Beals, H. H., 51 Cliff
Beggs, Jas. & Co., 109 Liberty
Behringer, Edw. A., 80 Warren
Benjamin, Geo. P., 81 Fulton
Bradford Belting Co., 88 Reade
Braunfels, Browning & Co., 1940 Park av
Burnet Co., 121 Maiden La.
Callahan, Geo. & Co., 129 Front
Chatwin, Alfred Supply Co. (Tools & Sup-
plies), 149 Centre
Charles' Mill Supply Co., 15 S William
Chase, H. M. & H. F., 95 Liberty
Cornell & Underhill, 47 Beach
Crane Co. (of Chicago), Est. 1855, 490
Cherry. (See adv. index, end of book)
De Ronde, Frank S. Co., 46 Cliff
Dienst, A. P. & Co., 2604 3d av
Dimock & Fink Co., 220 E 125th
DODGE MFG. CO., Cedar & Wash-
ington. (See adv. index, end of book)
Donegan & Swift, 6 Murray
Fairbanks Co., 186 Lafayette
FAIRBANKS, MORSE & CO., 12
Dey. (See adv. index, end of book)
Fawcett, Hughes, 115 Franklin
*Fay Belting Co., 3 Jacob
Fox Bros. & Co., 126 Lafayette
Frasse Co., 134 Liberty
Garrett, W. D. & Co., 180 Fulton
Gibbons, Jas. & Son, 412 West
Gibbons, Jno. V., 133 Greenwich
*Goodyear Rubber Co., 787 B'way
Greene, Tweed & Co., 109 Duane
Hoffman-Corr Mfg. Co., 55 White
Howe, Alfred H., 75 Warren
Katzenstein, Leopold & Co., 358 West
Kay, Wm. H. Co., 244 Fulton
Keasbey, Robt. A. Co., 100 N Moore
Kessel, Henry A. Co., 54 South
Kiple-Armstrong Co., 260 B'way
*Ladew, Edw. R. (Est. of), 200 William
Leonard & McCoy, 161 Wash'n
Leschen, A. & Sons Rope Co. (Belting, Pack-
ing, etc.), 163 Wash'n
McCoy, Henry J. (Mfrs.' Agt.), 65 Dey
MacSorley Co., 44 Manhattan
MANNING, MAXWELL & MOORE,
85, 87 & 89 Liberty. (See adv. index,
end of book)

Marine Mfg. & Supply Co., 158 South
Miller & McLean, 120 Liberty
Mitchell-Bissell Co., 227 Fulton
Motley, Thornton Co., 14 John
Murray, R. & H. J., 104 Reade
Nason Mfg. Co., 71 Beekman
*New York Belting & Packing Co (Ltd.), 91
Chambers

Ogden, J. Edw. Co., 147 Cedar
Olney & Warrin, 66 Centre
Parker, Stearns & Co. (Ltd.), 228 South
Patterson Bros., 27 Park Row
Patterson, Gottfried & Hunter (Ltd.), 146
Pollock, Alex. Co., 203 West Centre
Quinlan, Jas. & Co., 120 Liberty
Reilly, Jas., Repair & Supply Co., 229 West
Roberts, Geo. I. & Bros., 471 4th av
Robertson, Jas. L. & Sons, 48 Warren

ROBINS CONVEYING BELT CO., 19
Park Row (See adv index, end of book)
Rogers, Henry A. Co., 19 John
Rogers, J. F., & Co., 136 Liberty
Rumsey Pump & Machine Co., 75 Warren
Saguaw Mfg. Co., 44 Dey
Saner, Nicholas, 798 10th av
Saunderson & Wright, 465 W B'way
Schule, F. H. Co., 27 Thames
*Schultz Belting Co. (of St. Louis, Mo.), 111
Chambers

Sherman-Brown-Clements Co., 78 Murray
SIMMONS, JNO. CO., 110 Centre.
(See adv. index, end of book)
Smith, Thos. F., 20 Cedar
Southwick, Geo. W. Co. (Inc.), 90 Centre
STANDARD SCALE & SUPPLY
Co., 136 W. B'way. (See adv. index, end
of book)

Starrett & Jones Co., 131 Worth
Stephens & Conrow Co., 180 Fulton
STRONG MACHINERY & SUPPLY
Co., 48 Franklin. (See adv. index, end
of book)
Thompson & Moran, 508 Canal
*Urquhart's, Jno. S. Son Co., 46 Cortlandt
Welch, Holme & Clark Co., 331 West
Wilhelm-Hall & Co., 125 E 23d
Wilson, O. C. & K. R., 70 West

Borough of Queens.

LONG ISLAND CITY—Brodie, Wm., 31 Vernon
Petry, Jno. W., 63 Vernon av
(END OF NEW YORK CITY)

NIAGARA FALLS—Elderfield-Hartshorn Hard-
ware Co.

NORTH TONAWANDA—Knapp-Cramer Hard-
OGDENSBURG—Nash Bros. & Co. ware Co.

ONEIDA—Cramer & Carpenter
OSWEGO—Oswego Tool Co.

PALMYRA—Garlock Packing Co.
PEEKSKILL—Naylor Bros.

Wessel, W. F.
POUGHKEEPSIE—Dobbs, Chas. E.

ROCHESTER—*Cross Bros. & Co., 114 Mill
Davis, W. P. Machine Co., 130 Mill

Forster Jno. M. Co., 42 Andrews
Mathews & Boucher, 26 Exchange
Sloan, Saml. & Co., 71 Exchange

ROME—Jackson, Chas. H.
Raffauf & Hyde

Townsend, Jno. Sons
Wardwell Hdw. Co.

SENECA FALLS—RUMSEY & CO., (Ltd.),
(See adv. index, end of book)

SYRACUSE—Fairbanks Co., 251 W Fayette
Howlett, Frank C., 212 S Clinton

Joy, Edw., 133 Market
McClure, R. C. Co., 329 S Clinton

Syracuse Supply Co. (Ltd.), 314 W Fayette
Tobin, Wm. N., 407 S Clinton

Wood, C. H. Co., 401 S Clinton
TROY—*Barnum Bros. Co., 179 River

Duckrow, R. A., Boardman blk
Horan, Jas. J. & Co., 215 River

Klock, Danl., Jr., & Co., 10 B'way
*Pine & Co., 745 3d av

*Troy Belting & Supply Co., 6 Grand
Warren, J. M. & Co., 245 River

UTICA—Millar, Chas. & Son Co.
Radell & Bowman

Williams, J. H. Co., 6 Devereaux
WATERTOWN—Conde, W. W.
Hunting Co.
Spratt & Corcoran

When writing to firms
whose names appear
in this book please
mention

HENDRICKS'
COMMERCIAL
REGISTER.

NORTH CAROLINA.

ASHEVILLE—Asheville Hdw. Co.
Asheville Supply & Foundry Co.
CHARLOTTE—Alexander & Garsed
Bonner, S. Barnewall (Inc.)
*Charlotte Leather Belting Co.
Charlotte Supply Co.
Cramer, S. W.
General Fire Extinguisher Co.
*Ladew, Edw. R. (Est. of)
Mecklenburg Iron Works
Robbins, O. A.
Textile Mill Supply Co.
Tompkins, D. A. Co.
Washburn, A. H.
GOLDSBORO—Dewey Bros.
GREENSBORO—Clymer, L. M.
Greensboro Supply Co.
Odell Hdw. Co.
HENDERSON—O'Neill, M. J.
HIGH POINT—High Point Machine Works
NEWBERN—Gaskill Hardware & Mill Supply
Hymen Supply Co.
PATERSON—Buckley's, Benj. Sons
RAEFORD—Raeford Hdw. Co.
RALEIGH—Raleigh Iron Works Co.
SALISBURY—Salisbury Supply & Commission
WASHINGTON—Fulford, N. S. Hdw. Co. Co.
WILMINGTON—Whitlock, Chas. M.
Wilmington Iron Works.

NORTH DAKOTA.

FARGO—Crane Co. (of Chicago), Est. 1855
(See adv. index, end of book)
Hall-Robertson Hdw. Co.
Harrington, Hubert
JAMESTOWN—Chenery & Anderson

OHIO.

AKRON—*Akron Belting Co. (Belting, Hose, etc.)
Hardware & Supply Co.
Rohrbacher & Allen
ALLIANCE—Kay, Chas. Y.
ASHTABULA—Crosby Hdw. Co.
McKinnon, W. S.
Paine Bros.
Turner & Smith
BUCYRUS—Blair, E.
Picking, D. & Co.
CADIZ—Ward, W. G.
CAMBRIDGE—Carlisle & Grimes
CANTON—Canton Hdw. Co.
Canton Supply Co.
Fisher Mill & Mine Supply Co.
Miller, M. W.
CINCINNATI—*American Oak Leather Co.,
Kenner & Dalton av
Bell-Smith Factory Supplies Co., 717 Main
Boebinger Hdw. Co. (also Hardware), 315 E Pearl
*Bradford Belting Co., Walnut & 2d
Buchanan, Thos. & Co., 216 Elm
Cattell, A. C. Co., 604 Vine
Cincinnati Mill & Mine Supply Co., 602 Walnut
Cleveland Rubber Works, 612 Race
Crane Co. (of Chicago), Est. 1855. (See adv. index, end of book)
Devou, V. N. & Co., 506 Central av
DODGE MFG. CO., 128 W. 3d. (See adv. index, end of book)
Eagle Counter & Leather Co., 416 E 8th
Economy Machinery Co. (Jno. H. Flynn, Prop.), 428 E Pearl
FAIRBANKS, MORSE & CO., 137 W 4th. (See adv. index, end of book)
Fewlass-Leen Brass & Iron Co., 456 E 2d
German-Russell Co., 222 E 9th
Johnston, Wm. T. Co. (Full Line), 522 Main
KINSEY, E. A. & CO., 331 W 4th. (See adv. index, end of book)
Kramig, R. E. & Co., 234 E 6th
Laidlaw-Dunn-Gordon Co., 211 W 4th
McGowan, Jno. H. Co., 54 Central av
Merkel Bros., Canal & Jackson
Monarch Mill & Supply Co., Blymer bldg, Cincinnati, O.
Nuhring, Chas. & Bro., 907 Walnut
Ohio Rubber Co., 612 Race
Pickering Hardware Co., 5th & Main
Queen City Supply Co., Pearl & Elm
Rowe & Trunnell, 123 W 2d
STANDARD SCALE & SUPPLY Co., 108 Bell hlk. (See adv. index, end of book)
Straub Machinery Co., 1956 W 6th
Thompson, Walter M., 835 W 5th
Uihlein, Julius & Co., 134 W 2d
CLEVELAND—BARTLETT, C. O. & Snow Co. (See adv. index, end of book)
Bingham, W. Co., 1433 W 9th

Bodfield Belting Co., 1616 W 3d
Boston Woven Hose & Rubber Co. (of Boston, Mass.), 1551 Columbus rd, N. W.
Cleveland Tool & Supply Co., 1315 Columbus rd, N. W.
Consumers' Rubber Co. (Rubber, etc.), 1407 W 6th, N. W.
FAIRBANKS, MORSE & CO., 1354 W 9th. (See adv. index, end of book)
McIntosh Hardware Corp., 725 Superior
*Martin Raw Hide Belting Co., 2330 Mulberry, N. W.
National Supply Co., New Eng. bldg
Ohio Rubber Co., 725 St. Clair av, N. E.
PATTISON, W. M. SUPPLY CO., 197 St. Clair av, (See adv. index, end of book)
Philpott & Talcott, 1364 W 3d book)
STANDARD SCALE & SUPPLY CO., 24 S Water (See adv. index, end of book)
STRONG, CARLISLE & HAMMOND Co., 333-344 Frankfort av, N. W. (See adv. index, end of book)
White Tool & Supply Co., 1313 W 6th, N. W.
Williams, R. A. & Co., 1614 Columbus rd, N. W.
COLUMBIANA—Enterprise Mfg. Co. N. W.
COLUMBUS—Case Mfg. Co., Curtis av n St. Clair av
Columbus Mill & Mine Supply Co. (Also Mine), 121 S High
Columbus Supply Co., 161 N High
Columbus Tool & Supply Co., 178 N 3d
Engineers' & Plumbers' Supply Co., 150 N 3d
Keystone Supply Co., 517 Dennison
Miller, Wm. H. Co., 80 W Broad
Potts, B. D., 33 E Spring
Potts, W. B. Machinery Supply Co., 180 W Broad
Sackett Mine Supply Co., 77 E Long
Smith Bros. Hdw. Co., 20 W Chestnut
Standish Machine & Supply Co., Columbus, O.
Tallmadge Hardware Co., 147 N High
DAYTON—Barthelmy, Walter L.
Dayton Rubber & Mill Supply Co.
Dayton Supply Co.
Gump, Charles A.
Larkin, M. D. Supply Co.
Miami Valley Mill & Mine Supply Co. (Also Mine)
More, John R.
Patterson Tool & Supply Co.
Roney & Shearer
DEFIANCE—Defiance Machine Works
Kehnast, W. A. Co.
EAST LIVERPOOL—Milligan Hdw. & Supply Co.
FINDLAY—Adams Bros. Co.
Went Bros.
GALION—Freese, E. M. & Co.
HAMILTON—Hamilton Supply Co.
KENTON—Cantwell, Kinsey & Elder
MARIETTA—Ohio Valley Supply Co.
MARION—Kling & Wilson
MIDDLETOWN—Arnp, John
PORTSMOUTH—Hibbs Hardware Co.
RAVENNA—Waller, C. M.
ST. MARYS—St. Marys Machine Co.
SALEM—Salem Hardware Co.
SPRINGFIELD—Springfield Hdw. Co., 36 E Main
TOLEDO—Arbuckle, Ryan Co. (Inc.)
Bostwick-Braun Co.
Grosswiller, Jos. F. Supply Co.
Hardy & Dischinger Co.
Laskey, Elmer A.
National Supply Co.
Stollberg Hardware Co., 605 Cherry
Toledo Rubber Co.
Wilcox, M. I. Co.
YOUNGSTOWN—Morris Hardware Co.
Stambaugh-Thompson Co.
Wilkins-Leonard Hardware Co.

OKLAHOMA.

OKLAHOMA CITY—Crane Co. (of Chicago), Est. 1855 (See adv. index, end of book)

OREGON.

ALBANY—Albany Iron Works (Inc.)
BAKER CITY—Basche-Sage Hardware Co.
GRANITE—Lindsay, Guy L. (Also Mine)
GRANTS PASS—Hair-Riddle Hdw. Co. (Also Mine)
PORTLAND—Arthur, J. M. & Co., ft E Taylor
Atkins, E. C. & Co., 60 1st
Avery & Co., 48 3d
Christenson Machinery Co., E Water c E Taylor
Corbett, Failing & Robertson (Inc.), 84 Front
Crane Co. (of Chicago), Est. 1855. (See adv. index, end of book)
Crofut-McAyeal Co., 49 1st
FAIRBANKS, MORSE & CO., 1st & Stark. (See adv. index, end of book)
Gauld Co., 14 N 1st
Gillen-Chambers Co., 66 Front, N
Goodyear Rubber Co., 4th & Pine

Hammond Mfg. Co., Kamm bldg
Long, A. G., 45 N 5th
Mitchell, Lewis & Staver Co., 14th & Thurman
Noon, W. C. Bag Co., 28 1st, N
Pacific Coast Rubber Co., 41 1st
Portland Iron Works, 495 Northrup
Simonds Mfg. Co., 85 1st
Tatum & Bowen, 29 1st
Western Supply Co.
Williamet Iron & Steel Works, 4th & Glison

PENNSYLVANIA.

ALLENTOWN—Albright, Son & Co.
Allentown Bobbin Works
Allentown Reed, Harness & Mill Supply Co.
GRAMMES, L. F. & SONS (Canvas, Leather, Rubber & Cotton Belting, etc.), (See adv. index, end of book)
Hersh, F. Hardware Co.
Sieger, Frank G.
Taylor, William H. & Co.
Young, M. S. & Co.
ALTOONA—Standard Supply & Equipment Co.
BEAVER FALLS—Brierly, F. F. (also Mine)
Pettler, P. & Son
BLUE BALL—Shirk, P. E.
BRADFORD—Emery, L., Jr. & Co.
Oil Well Supply Co.
BUTLER—Campbell, J. G. & W.
CARBONDALE—Clover Leaf Mfg. Co.
CATASAGUA—Grafin Bros.
CHESTER—Howland, Wm. O.
Nuttall, Geo.
Riley, Benj. F.
Wilby, Thos.
CONSHOHOCKEN—Bate, Wm. T. & Son
CORRY—Ajax Iron Works
Barlow Hdw. Co., Ltd.
DUBOIS—Dubois Iron Works (Also Mine)
EASTON—Easton Foundry & Machine Co.
ERIE—Erie Mfg. & Supply Co.
FRANKLIN—Maloney, Geo. (Oil Wells)
HARRISBURG—Compton, S. R.
Gilbert, Henry & Son
McKills, A.
Mather, Edmund
HAZLETON—Barber, J. F. & Co.
Bright, J. C. & Co.
Hazleton Machinery & Supply Co. (Also Mine)
Woodring, Jeremiah & Co. (Also Mine)
JOHNSTOWN—Johnstown Supply House (Ltd.)
Swank Hdw. Co. (Also Mine)
KINGSTON—Roat, A. J. (Also Mine)
LANCASTER—Central Machine Works
Reilly Bros. & Rant
Sheet Metal & Supply Co.
Steinman Hdw. Co.
LAWRENCE—Merriman Flyer Wks.
LEBANON—Krause, Geo. Hardware Co.
LEWISBURG—Dreisbach's, C. Sons
MANHEIM—Manheim Mill Works
MEADVILLE—Gill, D. A.
Rhodes, I. M. & Co.
MUNCY—Sprout, Waldron & Co.
NEW CASTLE—Dickson & Co.
Smith, C. E. Hdw. Co.
NORRISTOWN—*Keystore Leather Belting Works
OSCEOLA MILLS—Stein, S. B. & Son (Mine Supplies a Specialty)
PEN ARGYL—Correll, R. S. (also Mining Supplies)
PHILADELPHIA—*Alexander Bros., 10 N 2d
Altamus, Jacob K., 2824 N 4th
Arny, C. W. & Son, Trenton & Somerset
Belfield, H. & Co. (Packing, Hose, Cement, etc.), 435 N Broad
Bell, H. E., 212 Church lane
Bickerton, I. B., 422 Commerce
Bickford Drill & Tool Co., Phila. Bourse
Billany & Cochrane, 527 Commerce
Billington, Jas. H. Co., 113 Chestnut
Blakeley, Jno. & Son, 1085 Gtn av
Bond, Chas., 520 Arch
Bowen & Martin, 112 S 2d
Bowman, H. L. & Co., 31 S 4th
Boyd, Jas. & Bro. (Leather, etc.), 14 N 4th
Bullock, C. K., 1357 Ridge av
Cloud Mfg. Co., 138 N 6th
Cook, Stephen S. (Knitting), 624 Race
Crane Co. (of Chicago), Est. 1855. 220 S 5th. (See adv. index, end of book)
Deronde, Frank S. Co., 221 N 4th
Diamond Textile Mch. Wks., 2d & Diamond
DODGE MFG. CO., 535 Arch. (See adv. index, end of book)
Etsweiler, Wm. (Leather, etc.), 230 N 3d
Glaser Mfg. Co., 2731 N 6th
*Graton & Knight Mfg. Co., 132 N 3d
Gwilliam Supply Co., 241 N 4th
Haines, Jones & Cadbury Co., 1136 Ridge av

Hammer, O. H., Jr., & Co., 423 Belgrade, Phila., Pa.

Hanson, Jos., 179 W Lehigh av
Houghton, E. F. & Co., 240 W Somerset
Jefferson, Edw. & Bro., 127 S 2d
Jeukins Bros., 133 N 7th
*Ladem, Edw. R. (Est of), 16 S 3d
Latimer, R. L. & Co., 24 N Front
Latta, John S. & Co., 1227 Arch
Leatheroid Mfg. Co., 923 Arch
Levick's, Richard Son & Co. (Rubber Belt-
ing, Hose, Packing, etc.), 720 Chestnut
Maddock & Co., 40 N 6th
*Main Belting Co., 1219 Carpenter

MANNING, MAXWELL & MOORE,
721 Arch. (See adv. index, end of book)
Manufacturers' Supplies Co., 418 Arch
Montgomery Bros., 48 N Front
Mulconroy Co. (Inc.), 722 Arch
Naumann Hardware & Supply Co., 4324
Germantown av

Paulus, Jos. C. & Co., 415 Commerce
Pechin, Jno. W., 51 S 3d
Penn Rubber Co., 218 Church
Perkins, Joel S., 2446 Douglas
Philadelphia Textile Mch. Co.
Quaker City Rubber Co. (Chas. A. Daniel,
Prop.) (a full line, also Mfrs. of Daniel's
P. P. P. Plug), 629 Market
Raine, C. J. & Co., 518 Arch
Restein, Clement & Co., 139 N 2d
*Rhoads, J. E. & Sons (Leather, etc.), 239
Market

Schade, Albert, 627 Cherry, Philadelphia, Pa.
*Schieren, Chas. A. & Co., 226 N. 3d
Sees & Faber, 2008 N. Front
Shultz Belting Co., 116 N. 3d
Smith, Jas. & Co., C nr. Westmoreland
Smith & Furbush Machine Co., N. Hancock
c Somerset

Spaulding & Metcalf, 532 Arch
STANDARD SCALE & SUPPLY CO.,
35 S. 4th. (See adv. index, end of book)
Standard Supply & Equipment Co. (Also
Wire), 1710 Market

Townsend, Isaac, 1217 Filbert
Vance, Jas. M. & Co., 211 Market
Watt's, Jno. M. Sons, 232 N 3d
Williamson & Cassidy, 526 Market
Wise & Bailey, Front c. Race

PHOENIXVILLE—Benjamin, N. H. Co.
PITTSBURG—Bindley Hardware Co., 429 7th
av.
Bollinger Bros., Fulton Bldg.
Briggs Machinery Co., 238 2d av.
Childs, H. L. & Co., 249 Water

DODGE MFG. CO., 337 2d. (See
adv. index, end of book)

Flocker, Jno. & Co., 935 Liberty av
Force Machinery Co., House Bldg.
Frick & Lindsay Co., 109 Wood
Gem Mfg. Co., Spruce nr 33d
Gerwig, Henry & Sons, 1301 Penna. av
*Hartley-Rose Belting Co., 634 Smithfield
Heyl & Patterson, 51 Water
Hukill, Hunter Co., 311 1st av
Johnston, Morehouse & Dickey (Also Mine),
106 Market

*Ladew, Edw. R. (Estate of), 243 Water
Logan-Gregg Hdw. Co., 125 7th
McClintock & Irvine Co., Neville & P. R. R.
OIL WELL SUPPLY CO. (Also
Mine), 215 Water, Pittsburg, Pa. (See
adv. index, end of book)

Phillips, J. & H., 136 6th
Pittsburg Gage & Supply Co., 309 Water
Pittsburg Rubber & Leather Co., 14 Wood
Pittsburg Supply Co., 439 Water
*Revere Rubber Co., 2 Wood

RUMSEY & CO., Ltd. (Kelly &
Jones Co., Agents). (See adv. index, end
of book)

Sherriff, Chas. F. Co., 146 6th av.
Somers, Fittier & Todd Co., 327 Water
Speck, Marshall & Co., 314 2d av.

STANDARD SCALE & SUPPLY CO.,
243 Water. (See adv. index, end of book)
Standard Supply & Equipment Co. (Also
Mine), 811 Liberty av.

Steel Heddle Mfg. Co.
Taylor, James, 835 Arch
Turner, Chas. A. (Mill, Mine & Railroad Sup-
plies), 14 Market

Woodwell, Jos. Co., 201 Wood
POTTSTOWN—Fegely, J. & Son
POTTSVILLE—Bright & Co.

Pottsville Supply Co. (Principally Mine)
READING—Bard Hardware Co., 800 Penn
Bright & Co., 604 Penn
Connard, Henry, 6th & Chestnut
Greth Machine Works (Inc.), 627 Franklin
Haag, A. W. & Co., 238 Walnut
Obold, J. H. & Co., 3d & Penn.
Reading Scale & Machine Co., Front &
Chestnut

Stichter Hdw. Co. (Ltd.), 505 Penn.
ST. CLAIR—Daddow & Beadle (Principally
Mine)

SCRANTON—Beckwith, C. F. & Co. (Also Mine),
Dime Bank Bldg.

Bittenhender & Co., 126 Franklin av
Connell Hdw. Co., 118 Penn av
Foote & Shear Co., 119 N Wash'n av
Fuller, Geo. W. S., 525 Lacka av
Hunt, Alex. E.
Lackawanna Supply Co.
Levi, Beno C., 409 Penn av
Maloney Oil & Mfg. Co.
Potter, L. B. & Co., 424 6th
Scott, Chas. B., 119 Franklin av
Scranton Mercantile Co.

*Scranton Supply & Machinery Co. (Also
Mine)

SHARON—Fruit-Ohl Co. (Also Foundry &
Blast Furnace Supplies)

TITUSVILLE—Kernochan & Co.
TUNKHANNOCK—Billings, Paul & Sons
UNIONTOWN—Johnson Machine Co.

WAKREN—Pickett Hdw. Co.
WILKES-BARRE—Penna. Supply Co.

Phelps, Lewis & Bennett Co.
United Supply Co. (Also Mine)

WILLIAMSPORT—Darling Pump & Mfg. Co.
(Ltd.)

Keeler, E. Co.
Link, Jas. H. Machinery Co.

National Foundry & Supply Co.
*Slate's, Geo. Sons

U. S. Machine Co.
Valley Iron Works

YORK—Farquhar, A. B. Co. (Ltd.)
Small, P. A. & S.

Spangler Mfg. Co.
York Engineering Co.

RHODE ISLAND.

EAST PROVIDENCE—Humes Mfg. Co.
PAWTUCKET—Blackstone, Reed & Harness Co.

*Bucklin C. R. Belting Co.
Easton & Burnham Machine Co.

McKenna, O. E.
Sawyer Hardware & Supply Co.

*Weatherhead, Thompson & Co.
PROVIDENCE—Allen & Reed (Inc.), 178 Dor-
rance

*American Supply Co., 11 Eddy
Brown Bros. Co., 62 Ex. pl.

*Burgess, A. & Son, 692 N. Main
Chase, F. A. & Co., 253 W. Exchange

Church, E. C. & Co., 5 Eddy
Conlin, J. C.

General Fire Extinguisher Co., Union Trust
bldg

Gowdey, J. A. Reed & Harness Mfg. Co.,
40 Clifford

Hill, Jas. Mfg. Co., 52 Westfield
Hope Rubber Co. (All Kinds of Rubber
Goods, etc.), 97 Westminster

Providence Belting Co., 37 Charles
Purchasing Co., 320 Butler Ex

Rhode Island Supply & Engineering Co.,
156 W Exchange

Ross, W. D., 220 Eddy

Spencer, Wilton H., 7 Ex. pl
Standard Mill Supply Co., 39 Ex pl

Talcott, W. O., 91 Sabin
Taylor, Chas. F., 15 Custom House

Thomas & Lowe Machinery Co., 66 W Ex-
change

Thornton Machinery Co., 23 Exchange pl
U. S. Mill Supply Co., 60 S Water

Vanstone Mfg. Co., Harrison c Westfield
Warner, Wm. D., 50 Ex. pl

WOONSOCKET—Coburn, Fred. S., 243 Main
Darling, Chas. H.

Farman, J. B.
Getchell, S. S. & Son, 44 S Main

Green, Henry M., 6 S Main
Wilkins Mfg. Co., 14 S. Main

Woonsocket Machine & Press Co.

SOUTH CAROLINA.

CHARLESTON—Bird, W. M. & Co.
Cameron & Barkley Co.

Franke, C. D. & Co.
Pitcher, C. S.

Tucker, R. P.
Valk & Murdoch Iron Works

COLUMBIA—Columbia Mill Co.
Gibbes Machinery Co.

Lorick & Lowrance
GREENVILLE—Carolina Supply Co.

Wilkins, Poe & Co.
SPARTANBURG—Charlotte Supply Co.

Ezell, S. B.
Montgomery & Crawford

Spartanburg Machinery Co.
WOODRUFF—Westmoreland, W. B. & Co.

SOUTH DAKOTA.

RAPID CITY—Congdon, G. S. Hdw. Co.
WATERTOWN—Crane Co. (of Chicago), Est.
1855. (See adv. index, end of book)

TENNESSEE.

CHATTANOOGA—Chattanooga Saw Works, 521
Fritts, Tom Hdw. Co., 715 Market Broad

James Supply Co., 1162 Market
Magill Hdw. Co., 729 Market

Wheiaud Foundry & Machine Works
COVINGTON—Walker, M. A.

JACKSON—Southern Engine & Boiler Works
JOHNSON CITY—Summers, Barton & Parrott

KNOXVILLE—Luttreli, S. B. & Co.
McClung, C. M. & Co.

Savage, W. J.
Southern Brass & Iron Co. (also Mine)

Tennessee Mill Supply Co.
MEMPHIS—Atkins, E. C. & Co., 141 N. Main

Bailey, J. A. & Co., 70 S. 2d
Barnes & Miller Hdw. Co., 151 S. Main

Browne & Borum, 54 N. 2d
Chickasaw Iron Works, 2d & Winchester

Coffin, J. H. & Co., 250 Adams
Crane Co. (of Chicago), Est. 1855. (See
adv. index, end of book)

Ellis, Wm. C. & Sons, 245 Shelby
Lee Bros., 6 S. Front

Livermore Iron & Supply Store, 91 N 2d
Memphis Belting Co., 148 Front

Pidgeon-Thomas Iron Co.
Riechman-Crosby Co., 209 S. Main

Towner & Co., 2 Jefferson
NASHVILLE—Bown, T. A. & Co.

Fall, J. H. & Co.
Keith, Simmons & Co.

Union Machine & Supply Co.
TULLAHOMA—Lawson, T. D.

McCoy, H. & Co.

TEXAS.

ABILENE—Leaveil, S. H.
AUSTIN—Tips, Walter

BEAUMONT—Simmons Hdw. Co.
BRENNHAM—Roff & Miller

DALLAS—Briggs Weaver Machinery Co.
Crane Co. (of Chicago), Est. 1855. (See adv.
index, end of book)

Dallas Mill & Gin Supply Co.
Keating Implement & Machine Co.

Wolfe, B. F. & Co.
Young, Heintz & Co.

DENISON—Hall-Leeper Hardware Co.
EL PASO—Mine & Smeiter Supply Co.

Pass City Foundry & Machine Co.
FORT WORTH—Abbott, Jno. T. Machinery Co.

Brown, T. M. & Co.
Texas Mfg. Co.

GALVESTON—Blum Hardware Co.
Brown, J. S. Hardware Co.

HOUSTON—Barden Electric & Machinery Co.
Bering-Cortes Hardware Co.

Heltman, F. W. & Co.
Peden Iron & Steel Co.

Smith, Howard Co.
LUFKIN—Lufkin Foundry & Machine Co.

PALESTINE—Dilley, George M. & Son
PARIS—Collins & Dulaney

SAN ANTONIO—Alamo Iron Works
Gunther Foundry, Mach. & Supply Co.

San Antonio Mach. & Supply Co.
TYLER—Connolly, Walter & Co.

WACO—June, D. & Co.
Kellett-Chatham Machinery Co.

UTAH.

SALT LAKE CITY—Crane Co. (of Chicago),
(Est. 1855). (See adv. index, end of book)

FAIRBANKS, MORSE & CO., 218 S
W Temple. (See adv. index, end of
book)

VERMONT.

CHESTER DEPOT—Davis, E. J.
MONTPELIER—Deming Hdw. Co.

RUTLAND—Lincoln Iron Works
Steam Stone Cutter Co.

Stoddard Mfg. Co. (For Creameries, etc.)
SPRINGFIELD—Parks & Woolson Mach. Co.

WINOOSKI—Stevens Machine Co.

VIRGINIA.

DANVILLE—Westbrook, J. B. Foundry & Ma-
FARMVILLE—Farmville Mfg. Co. chine Co.

HARRISONBURG—Thomas & Co.

LYNCHBURG—Ainslie & Martin
Barker-Jennings Hdw. Co.
Lumley-Dodson Co.
NORFOLK—Bowen, Jos. E.
Lumley-Johnson Co.
Mayer & Co.
Perry, Theo. A.
Porter-McNeal Co.
Price, S. M. Machinery Co.
Southern Supply Co.
Stansbury, A. R.
Taylor, W. H. & Co.
Walke, Henry Co.
Westbrook, Jno. D.
White, E. V. & Co.

PETERSBURG—Leonard, Charles
Stockdell-Myers Hdw. Co.
Stratton-Bragg Co.

PULASKI—Pulaski Hdw. Co.

RICHMOND—Commonwealth Supply Co., Chamber of Commerce bldg

Frishkorn, Hunter B., 812 E Cary
Gordon Metal Co., 1426 E Carey
Inman, G. A. & Co., Times bldg
Lindsay, Jno. L., 1417 E Main
McGraw, Jas., 1442 E Main
Smith & Courtney Co., 1418 E Clay
Southern Railway Supply Co., 1323 E Main
SUFFOLK—Folk, E. L. & Co.

WASHINGTON.

BALLARD—Hopkins, Paul & Son
EVERETT—Agnew Hdw. Co.
Summer Iron Works (Inc.)

OLYMPIA—Mason, C. Z.

SEATTLE—Adair, George B. & Son, 309 Occidental av
Caldwell Bros., 115 Jackson dental av
Crane Co. (of Chicago), Est. 1855. (See adv. index, end of book)

Dally, S. W. R., Pier 6
Hallidie Machinery Co., 315 2d S
Hambach, A. Co., 305 1st av, S
Mill & Mine Supply Co.
Moore, Chas. C. & Co., 218 2d av S
Polson Implement & Hdw. Co., 902 1st, S
Puget Sound Machinery Depot, 318 1st, S
Seattle Hardware Co., 501 1st av
Simonds Mfg. Co., 119 Jackson
Tolsma, R. B. & Co., 912 1st, S.
Vulcan Iron Works Co., 5th av c Seattle
Washington Rubber Co., 216 Jackson houl
Zelnicker, W. A. Supply Co., 316 Occidental av

SPOKANE—Arnold-Evans Co.
Barnard Mfg. Co.
Bradley Engineering & Machinery Co. (Also Mine)

Crane Co. (of Chicago), Est. 1855. (See adv. index, end of book)

FAIRBANKS, MORSE & CO. (of Chicago, Ill. (See adv. index & branch offices, end of book)

Holly, Mason, Marks & Co.
Mitchell, Lewis & Staver Co.
National Iron Works
Spokane Hardware Co.

TACOMA—Crane Co. (of Chicago, Ill.), Est. 1855. (See adv. index, end of book)

Gardner, W. & Co.
Hunt & Mottet Co.
Keith, P. R. & Co.
Puget Sound Metal Works
Tacoma Leather & Belting Co.
Washington Machinery Depot
Washington Rubber Co.

WHATCOM—Frizell, W. M.
Morse Hardware Co. (Also Mining)

WEST VIRGINIA.

CHARLESTON—Burlew, N. S.
Capitol City Supply Co.
Charleston Hdw. Co.
Goshorn & Co.

CLARKSBURG—Clarkshurg Supply Co.
FAIRMONT—Jacob & Hutchinson (Principally Mining)

HUNTINGTON—Miller Supply Co. (Also Mine)
NEW CUMBERLAND—Davis-Price Foundry & Machinery Co.

PARKERSBURG—Carruthers & Co.
Turner, C. H. Co.

WHEELING—Berry, Chas. Supply Co.
Howe, A. D. Machinery Supply Co.

WISCONSIN.

APPLETON—Schlafer Hardware Co.

ASHLAND—Bretting, C. G. Mfg. Co.

BARABOO—Farnum, Chas. H.

EAU CLAIRE—Brooks, S. C. (Est. of)

Eau Claire Mill Supply Co.

Hohhs, W. H.

FOND DU LAC—Dallman & Cooper Supply Co.

LA CROSSE—Kroner Hardware Co. (Inc.)

Tausche, V. Hardware Co.

MADISON—King & Walker Co.

MARINETTE—Westland, August

MILWAUKEE—Gardner, A. H. Co., 380 E Water

Goodyear Rubber Co., 382 E. Water
Hoffman-Billings Mfg. Co., 100 2d
Maloney-Bennett Belting Co., 117 W Water
*Milwaukee Leather Belting Co., 137 Sycamore

Packard, O. L. Machinery Co., 165 W Water
Rom, Robt. Co., 1101 St Paul av
Rundle-Spencer Mfg. Co., 63 2d
Trostel, A. & Sons, 612 Commerce
Wisconsin Machinery & Mfg. Co., S Canal

OSHKOSH—Battis Bros. n Muskego av

Leach, Frank Hardware Co.

RACINE—Freeman, S. & Sons Mfg. Co.

RHINELANDER—Dunn & Wood Hardware Co.

Lewis Hardware Co.

SHEBOYGAN—Geele, F. Hardware Co.

STEVENS POINT—Cook, R. A.

WAUSAU—Murray, D. J. Mfg. Co.

Milling Attachments

Adams Co., Duquque, Ia.
Becker-Brainard Milling Machine Co., Hyde Park, Mass.

Brown & Sharpe Mfg. Co., Providence, R. I.
Cincinnati Milling Machine Co., Cincinnati, O.
Garvin Machine Co., Varick & Spring, N. Y.
Ideal Machine Co., Hartford, Conn.
Kampsmith Mfg. Co., Milwaukee, Wis.
Niles-Bement-Pond Co., 111 B'way, New York
Osterlein Machine Co., Cincinnati, O.
Pratt & Whitney Co., Hartford, Conn.

Milling Machines

(See Machines, Milling.)

Mills (Adjustable, Hollow)

Geometric Tool Co., New Haven, Conn.
Modern Tool Co. (Hollow Milling Tool), Erie, Pa.

MORSE TWIST DRILL & MACHINE Co., New Bedford, Mass. (See adv. index, end of book)

Rogers, John M. Boat Gauge & Drill Works, Gloucester City, N. J.

Mills (Attrition)

Baruard & Leas Mfg. Co. ("Hercules," "Sovereign"), Moline, Ill.

Excel Mfg. Co., Pottersville, N. J.
Munson Bros. Co., Utica, N. Y.
Sprout, Waldron & Co. (The "Monarch"), Muncy, Pa.

Mills (Ball & Pebble)

Abbe Engineering Co., 220 B'way, New York
ALLIS-CHALMERS, Milwaukee, Wis. (See adv. index & branch offices, end of book)

BETHLEHEM FOUNDRY & MACHINE Co., Front, South Bethlehem, Pa. (See adv. index, end of book)

BONNOT COMPANY, Canton, O. (See adv. index, end of book)

Davis, F. M. Iron Works Co. ("Ferraris") Ball Mill, Denver, Colo.

Day, J. H. & Co., Cincinnati, O.
Mosser, Wm. F. & Son, Allentown, Pa.
Prosser, Thos. & Son (the Krupp), 15 Gold, New York

Smidth, F. L. & Co., 39 Cortlandt, New York
Townsend Furnace & Machine Shop Co. (Ball), Albany, N. Y.

WELLMAN-SEAEVER-MORGAN CO. (Ball), Cleveland, O., & Akron, O. (See adv. index, end of book)

West Pulverizing Machine Co., Jersey City, N. J.

Mills (Bark)

(See also Grinders, Edging.)

Allentown Foundry & Machine Works Co., Allentown, Pa.

Barry & Zecher Co. ("Eureka"), Lancaster, Pa.
Bartley, Wm. & Son ("Shultis") Sectional, Bartley, N. J.

Eyster, Weiser & Co. (Ltd.), York, Pa.
Horn, Wm. H. & Bro., 451 N 3d, Phila., Pa.
Ott, Benj. & Sons (Bark Shaving), La Crosse, Wis.

Shanley & Wells, Binghamton, N. Y.
STROUD, E. H. & Co., 36 La Salle, Chicago, Ill. (See adv. index, end of book)

Waterville Foundry & Machine Co., Waterville, N. Y.
Wickes Bros., Saginaw, Mich.

*Mills (Billet)

MORGAN ENGINEERING CO., All-ance, O. (See adv. index, end of book)

Mills (Bone & Shell)

Campbell, P. F., 55 Laurel, Phila., Pa.
Dempwolf, C. H. & Co., York, Pa.
Messinger Mfg. Co., Tatamy, Pa.
New Winona Mfg. Co. ("Diamond"), Winona, Minn.

Sackett, A. J., 5th av c 1st, E Baltimore, Md.
STROUD, E. H. & Co., 36 La Salle, Chicago, Ill. (See adv. index, end of book)

Mills (Boring & Turning)

Barnes, B. F. Co., Rockford, Ill.
Betts Machine Co. (Vertical, 5 to 20 ft. swing), Wilmington, Del.

Bickford, H. & Co., Lakeport, N. H.
Bleckford Drill & Tool Co., 3 Pike, Cincinnati, O.

BLISS, E. W. Co., 19 Adams, Brook-lyn, N. Y. (See adv. index, end of book)

Bullard Machine Tool Co. ("Standard"), Bridgeport, Conn.

Colburn Machine Tool Co. (Vertical, 30 to 72-inch swing), Franklin, Pa.

Detrick & Harvey Machiue Co. (Horizontal Drilling, Boring & Milling), Baltimore, Md.

Espen-Lucas Machine Works, Broad & Nohle, Phila., Pa.

Fox Machine Co., Grand Rapids, Mich.

GISHOLT MACHINE CO. (See adv. index & branch offices, end of book)

Harrington, E. Son & Co., Phila., Pa.
King Machine Tool Co. (Vertical, 42, 50, 60 & 72-inch Size), Clifton & Spring Grove avs, Cincinnati, O.

MANNING, MAXWELL & MOORE, 85, 87, 89 Liberty, New York. (See adv. index & branch offices, end of book)

New Haven Mfg. Co., New Britain, Conn.
Newton Machine Tool Works, 2347 Vine, Phila., Pa.

Niles-Bement-Pond Co., 111 B'way, New York
Poole, J. Morton Co. (Large), Wilmington, Del.

Putnam Machine Co., Fitchburg, Mass.
Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Phila., Pa.

TUOHY BROS. CO. (Vertical), 95 Liberty, New York. (See adv. index, end of book)

Warner & Swasey Co., Cleveland, O.

*Mills (Boring & Turning, Horizontal)

GISHOLT MACHINE CO. (Boring & Drilling, Operating from Either Side, Boring, Turning & Drilling, etc.), Madison, Wis. (See adv. index & branch offices, end of book)

Mills (Boring & Turning, Vertical)

(See also Mills, Boring & Turning)

Betts Machine Co., Wilmington, Del.
Bausch Machine Tool Co., Springfield, Mass.

Bullard Machine Tool Co., Bridgeport, Conn.

GISHOLT MACHINE CO. (Boring & Turning, Rapid Operation Tools, Boring, Turning & Drilling), Madison, Wis. (See adv. index & branch offices, end of book)

King Machine Co., Clifton & Spring Grove avs, Cincinnati, O.

Rogers Machine Tool Co., Alfred, N. Y.

Mills (Buhr Stone)

Barnard & Leas Mfg. Co. (French Buhr), Moline, Ill.

Campbell, P. F., 55 Laurel, Phila., Pa.

Day, J. H. & Co., Cincinnati, O.
Harrison, Leonard D. ("Planter's Pride"), New Haven, Conn.

Lamb & Co., Freeport, Ill.
New Winona Mfg. Co. ("Diamond"), French, Winona, Minn.

Nordyke & Marmon Co. (All Kinds), 1101 W Morris, Indianapolis, Ind.

Richmond City Mill Works, Richmond, Ind.
Ross, Chas. & Son Co., 148 Classon av, Brooklyn, N. Y.

Southern Engine & Boiler Works (Inc.), Jackson, Tenn.

Sprout, Waldron & Co., Muncy, Pa.
Starr, B. F. Co. (for Flour & Corn Mills), 455 North Baltimore, Md.

Straub Machinery Co., 1956 W 6th, Cincinnati, Ohio

Mills (Car Wheel Boring)

Bickford Drill & Tool Co., c Front & Pike, Cincinnati, O.
Niles-Bement-Pond Co., 111 B'way New York
Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Philadelphia, Pa.

Mills (Chaser)

Ross, Chas. & Son Co., 148 Classon av, Brooklyn, N. Y.

*Mills (Chilian)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)
CURRIER, CYRUS & SONS, Newark, N. J. (See adv. index, end of book)
WELLMAN-SEEVER-MORGAN CO., Cleveland, O., & Akron, O. (See adv. index, end of book)

Mills (Chlorination)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)
Power & Mining Machinery Co., 52 William, New York. Works, Cudahy, Wis.
Stearns-Roger Mfg. Co., 1718 California, Denver, Col.

Mills (Cider & Cider Presses)

(See also Presses, Wine & Cider.)

American Seeding Machine Co. Main Office, Springfield, O.
Ames Plow Co., Quincy Hall, Boston, Mass.
Boomer & Boschert Press Co., Syracuse, N. Y.
Cardwell Machine Co., Richmond, Va.
Comstock, Geo. S. ("Triumph"), Mechanicsburg, Pa.
Cutaway Harrow Co., Higganum, Conn.
Farquhar, A. B. Co. (Mills & Presser), York, Pa.
Greenville Implement Co., Greenville, Mich.
Hench & Dromgold Co., York, Pa.
Hercules Lever Press Co. (Presses), Irvington, N. J.
Hocking Valley Mfg. Co. Lancaster, O.
Hydraulic Press Mfg. Co. (Presses), Mt. Gilead, O.
Keystone Farm Machine Co. ("Jamit," "Medium," "Keystone"), York, Pa.
Klotz Machine Co. (Presses), Sandusky, O.
Lansing Wheelharrow Co., Lansing, Mich.
Mast, P. P. & Co., Springfield, O.
Thomas-Albright Co. (Presses), Goshen, Ind.
White, S. R. & Bro., Norfolk, Va.
Whitehurst, R. W. Co., Norfolk, Va.
Whitman Agricultural Co., 6900 S B'way

Mills (Cinder)

Central Iron Works, Quincy, Ill.
Sly, W. W. Mfg. Co., Cleveland, O.

Mills (Cocoa)

Straub Machinery Co., 1956 W 6th, Cincinnati, O.

Mills (Coffee or Spice)

Arcade Mfg. Co. ("Crystal" Family Coffee Mill), Freeport, Ill.
Bronson-Wolton Co. ("Monitor"), Cleveland, O.
Campbell, P. F. (Grocers' & Horse Power), 55 Laurel, Phila., Pa.
Devlin, Thos. Mfg. Co., Phila., Pa.
Enterprise Mfg. Co. ("Enterprise"), 3d & Dauphin, Phila., Pa.
Griswold Mfg. Co., Erie, Pa.
Hobart Electric Mfg. Co. (Electric), Troy, O.
Howe Scale Co., Rutland, Vt.
Huntley Mfg. Co., Silver Creek, N. Y.
Landers, Frary & Clark ("Crown," "Universal" & "Regal" Coffee Mills), New Britain, Conn.
Lane Bros. Co. ("Swift"), Poughkeepsie, N. Y.
National Novelty Corporation ("Brighton," "Stearling" & "Excelsior"), 826 B'way, New York
PARKER, CHAS. CO., Meriden, Conn. (See adv. index, end of book)
Ross, Chas. & Son Co., 148 Classon av, Brooklyn, N. Y.
Stimpson Scale & Mfg. Co. (Grocers' Hand & Electric Power), Northville, Mich.
Smith's, Jno. E. Sons Co. (Spice Mills), Buffalo, N. Y.
STROUD, E. H. & CO., 36 La Salle, Chicago, Ill. (See adv. on following page)
Sun Mfg. Co. (Family Coffee Mills), Columbus, O.
Waddell Woodenware Works Co., Greenfield, O.

Mills (Concentrating)

(See Mills, Stamp.)

Mills (Continuous)

(See Rolling Mill Plants, Continuous)

*Mills (Corn Oil)

ELMES, CHAS. F. ENGINEERING Works, c Fulton & N Sangamon, Chicago, Ill. (See adv. index, end of book)

Mills (Corn & Cob)

Allentown Foundry & Machine Works (Inc.), Allentown, Pa.
ALLIS-CHALMERS CO. (Corn Mills), Milwaukee, Wis. (See adv. index & branch offices, end of book)
Appleton Mfg. Co., Batavia, Ill.
Barnard & Leas Mfg. Co., Moline, Ill.
Barry & Zecher Co. (B. & Z.), "Eureka", Lancaster, Pa.
Batavia Wind Mill Co., Batavia, Ill.
Bell, C. S. Co., Hillsboro, O.
Bowsher, N. C. Co., South Bend, Ind.
Case Mfg. Co. (Corn), Columbus, O.
Challenge Wind Mill & Feed Mill Co., Batavia, Ill.
Colton, G. D. & Co., Galesburg, Ill.
De Loach Mill Mfg. Co. (Corn), Atlanta, Ga.
Eureka Bark Mill Co., Lancaster, Pa.
Excel Mfg. Co., Pottersville, N. J.
Freeman, S. & Sons Mfg. Co., Racine, Wis.
Goodhue Rotary Grinder Co., St. Charles, Ill.
Great Western Mfg. Co., Leavenworth, Kan.
Harrison, Leonard D. ("Richmond"; also "Richmond" Cob Crusher), New Haven, Conn.
Keystone Farm Machine Co., York, Pa.
Munson Bros. Co. (Corn), Utica, N. Y.
National Novelty Corporation (Domestic for Corn, Rice, etc. Capacity 4 Qts.), 826 B'way, New York
New Winona Mfg. Co. ("Osage"), Winona, Minn.
Port Huron Engine & Thresher Co., Port Huron, Mich.
Richmond City Mill Works, Richmond, Ind.
Robinson Mfg. Co. ("Iron Clad" Corn Ear Crusher), Muncy, Pa.
Salem Iron Works. (Little Giant), Winston-Salem, N. C.
Southern Engine & Boiler Works (Inc.), Jackson, Tenn.

Sprout, Waldron & Co. (Corn), Muncy, Pa.
Squier, Geo. L. Mfg. Co., Buffalo, N. Y.
Sterling Mfg. Co. ("Sterling"), Sterling, Ill.
Stover Mfg. Co., Freeport, Ill.
STROUD, E. H. & CO., 36 La Salle, Chicago, Ill. (See adv. on following page)
U. S. Wind Engine & Pump Co. (Corn), Batavia, Ill.
Whitehurst, R. W. & Co. (Corn), Norfolk, Va.
Whitman Agricultural Co., St. Louis, Mo.
Wilson Bros., Easton, Pa.

*Mills (Cotter)

MORSE TWIST DRILL & MACHINE Co., New Bedford, Mass. (See adv. index, end of book)

Mills (Cyanide)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)
Arizona & Sonora Mfg. Co., Nogales, Ariz.
Denver Engineering Wks. Co., Blake & 30th, Denver, Colo.
Merrall Machinery Co. (Roller Mills), 1123 B'way, New York
Power & Mining Machinery Co., 52 William, New York. Works, Cudahy, Wis.
Traylor Engineering Co., 114 Liberty, New York. Works: Allentown, Pa.

Mills (Drug)

Abbe Engineering Co., 220 B'way, New York
Campbell, P. F., 55 Laurel, Phila., Pa.
Carey, Samuel, 17 State, New York
Colton, Arthur, Detroit, Mich.
Day, J. H. & Co., Cincinnati, O.
Enterprise Mfg. Co. ("Enterprise"), 3d & Dauphin, Philadelphia, Pa.
Holmes & Blanchard Co., Boston, Mass.
Landers, Frary & Clark, New Britain, Conn.
Lane Bros. Co. ("Swift"), Poughkeepsie, N. Y.

National Novelty Corporation ("Brighton," Hand Power), 826 B'way, New York
National Specialty Mfg. Co., 3d c Lehigh av, Philadelphia, Pa.

PARKER, CHAS. CO., Meriden, Conn. (See adv. index, end of book)

Ross, Chas. & Son Co., 148 Classon av, Brooklyn, N. Y.

Simpson, Jas. S., 26 Rodney, Brooklyn, N. Y.

Sprout, Waldron & Co., Muncy, Pa.

Straub, A. W. Co., 3737 Filbert, Phila., Pa.

STROUD, E. H. & CO., 30-36 LaSalle, Chicago, Ill. (See adv. on following page)

Waterville Foundry & Mfg. Co., Waterville, N. Y.

Mills (Emery Rock)

Sprout, Waldron & Co., Muncy, Pa.
Sturtevant Mill Co., Clayton c Park, Dor., Boston, Mass.

Mills (End)

American Die & Tool Co. (Shell), Reading, Pa.
Becker, Brainard Milling Machine Co. (Spiral, Fined, etc.), Hyde Park, Mass.
Boker, Hermann & Co. ("Novo" Steel), 103 Duane, New York
Sturtevant Mill Co., Clayton c Park Dor., Boston, Mass.
Brown & Sharpe Mfg. Co., Providence, R. I.
Cleveland Twist Drill Co., Cleveland, O.
MORSE TWIST DRILL & MACHINE Co. (with Center Cut & with Spiral Flutes, etc.), New Bedford, Mass. (See adv. index, end of book)
National Twist Drill & Tool Co. ("National," with Spiral Flutes, etc.), Detroit, Mich.
OWEN MACHINE TOOL CO., Springfield, Mass. (See adv. index, end of book)
Pratt & Whitney Co., Hartford, Conn.
Standard Tool Co. (Straight, Fluted, etc.), Central av. & P. Ry., Cleveland, O.
Union Twist Drill Co., Athol, Mass.

*Mills (Exhaust Tumbling)

Central Iron Works, Quincy, Ill.

Mills (Fanning)

Ames Plow Co., Quincy Hall, Boston, Mass.
Aul, Henry & Son, Lyons, N. Y.
Avery Mfg. Co., Peoria, Ill.
Beeman & Co., Minneapolis, Minn.
Belcher & Taylor Agric. Tool Co., Chicopee Falls, Mass.
Belle City Mfg. Co., Racine, Wis.
Bennett, L. H., Plymouth, Mass.
Billups, C. Son & Co., Norfolk, Va.
Brennan & Co., Louisville, Ky.
Bristol & Gale Co. ("B & G"), 110 Washington Boul, Chicago, Ill.
Buch's, A. Sons Co., Elizabethtown, Pa.
Campbell, M. Fanning Mill Co., Detroit, Mich.
Challenge Wind Mill & Feed Mill Co., Batavia, Ill.
Cleveland, A. V., Minneapolis, Minn.
Dewey Mfg. Co., Winnebago City, Minn.
Dickey Mfg. Co., Racine, Wis.
Durling, A. N., Detroit, Mich.
Ferrell, A. T. & Co., Saginaw, Mich.
Foster & Williams Mfg. Co. (Badger State), Racine, Wis.
Freeman, S. & Sons Mfg. Co. (Centennial), Racine, Wis.
Genesee Valley Mfg. Co., Mt. Morris, N. Y.
Grant-Ferris Co., Troy, N. Y.
Groffmund, M., Fergus Falls, Minn.
Harder Mfg. Co., Cohoeskill, N. Y.
Hirsch Bros., Milwaukee, Wis.
Hosford, Jno., Monroeville, O.
Huntley Mfg. Co., Silver Creek, N. Y.
Johnson & Field Mfg. Co., Racine, Wis.
Keller Mfg. Co., Saut Centre, Wis.
Kingman & Co., Peoria, Ill.
Marseilles Mfg. Co., Marseilles, Ill.
Messinger Mfg. Co., Tatamy, Pa.
Michael, Chas. H. Mfg. Co., Laporte, Ind.
Miller Bros. Mfg. Co., Alexandria, Ind.
Nash, H. D. & Co., Sacramento, Cal.
Newark Machine Co., Newark, O.
New Winona Mfg. Co., Winona, Minn.
Owatonna Fanning Mill Co., Owatonna, Minn.
Owens, J. L. Co., Minneapolis, Minn.
Putney, C. H., Lyons, N. Y.
Racine Implement Co., Racine, Wis.
Reist, J. R. & Son, Harrisburg, Pa.
Rowell, J. S. Mfg. Co., Beaver Dam, Wis.
Solar Mfg. Co., Kaukauna, Wis.
Sperry Mfg. Co., Owatonna, Minn.
Trappe, Chas. H., Mascoutah, Ill.
Twin City Separator Co., Minneapolis, Minn.
Wells, H. B., Milford, Pa.

Mills (Feed Grinding)

Aermotor Co., Campbell av., nr. 12th, Chicago, Ill.
 Ajax Mfg. Co. ("Standard"), Allegheny, Pa.
ALLIS-CHALMERS CO., Milwaukee,
 Wis. (See adv. index & branch offices, end of book)
 Althouse Wheeler Co. (For Meal, Graham Flour, etc.), Waupun, Wis.
 American Drill Co., Springfield, O.
 Appleton Mfg. Co., Batavia, Ill.
 Baker Mfg. Co., Evansville, Wis.
BARTLETT, C. O. & SNOW CO.,
 Cleveland, O. (See adv. index, end of book)
 Batavia Wind Mill Co., Batavia, Ill.
 Beery Mfg. Co., Upper Sandusky, O.
 Bell, C. S. Co., Hillsboro, O.
 Belle City Mfg. Co., Racine, Wis.
 Beneca Agricultural Works, Beneca, Cal.
 Blue Valley Mfg. Co., Manhattan, Kan.
 Bowsher, N. P. Co., South Bend, Ind.
 Bristol & Gale Co., 110 Washington Boul., Chicago, Ill.
 Buckeye Engine & Foundry Co., Joliet, Ill.
 Butler Co., Butler, Ind.
 Case Mfg. Co., Columbus, O.
 Challenge Co., Batavia, Ill.
 Chicago Feed Mill Co., Chicago, Ill.
 Colton, G. D. & Co., Galesburg, Ill.
 Cook Mfg. Co., Albion, Mich.
 Cooper, A. A. Wagon & Buggy Co., Dubuque, Ia.
 Cyclone Feed Grinder Co., Lincoln, Neb.
 Dain Mfg. Co., Ottumwa, Ia.
 Duplex Mfg. Co., South Superior, Wis.
 Dutton, E. Q. & Co., Cato, N. Y.
 Eagle Machine Co., Lancaster, O.
 Elgin Wind Power & Pump Co., Elgin, Ill.
 Enterprise Mfg. Co. (Steam & Horse Power), Columbiana, O.
 Eureka Fence Mfg. Co., Richmond, Ind.
 Excel Mfg. Co., Pottersville, N. J.
FAIRBANKS, MORSE & CO., ("New Holland"), Franklin & Monroe, Chicago, Ill. (See adv. index & branch offices, end of book)
 Farm Tool Mfg. Co. (Invincible), Carrollton, Mo.
 Flour Mill Machinery Co., Battle Creek, Mich.
 Flinchbaugh Mfg. Co., York, Pa.
 Foos Mfg. Co. (Farmers), Springfield, O.
 Fort Scott Feed Mill Co., Fort Scott, Kan.
 Globe Foundry & Machine Co., Sheboygan, Wis.
 Great Western Mfg. Co., Leavenworth, Kan.
 Haven, Jas. L. Co., Cincinnati, O.
 Heebner & Sons, Lansdale, Pa.
 Hench & Dromgold Co., York, Pa.
 Hercules Mfg. Co., Centerville, Ia.
 Howell, R. R. & Co., Minneapolis, Minn.
 Hutchison, Jno. Mfg. Co., Jackson, Mich.
 Jenkins Hay Rake & Stack Co., Browning, Mo.
 Kaestner & Co., 241 S Jefferson, Chicago, Ill.
 Kansas City Hay Press Co., Kansas City, Mo.

Kelly & Taneyhill Co., Waterloo, Ia.
 Kelly, O. S. Co., Springfield, O.
 Keystone Farm Machine Co., York, Pa.
 Lamb & Co. (Buhr Stone, with or without Sacking Elevator), Freeport, Ill.
 Lansing Motor & Pump Co., Lansing, Mich.
 Marseilles Mfg. Co., Marseilles, Ill.
 Messinger Mfg. Co., Tatamy, Pa.
 Munson Bros. Co., Utica, N. Y.
 New Winona Mfg. Co. ("Diamond"), Winona, Minn.
 Ohio Implement Co. (Triple Geared & Direct-Acting Sweep), Bowling Green, O.
 Patch, A. H., Clarksville, Tenn.
 Phillips, T. L. ("Aurora"), Aurora, Ill.
 Port Huron Engine & Thresher Co., Port Huron, Mich.
 Richmond City Mill Works, Richmond, Ind.
 Rogers Iron Co., Springfield, O.
 Ross, Chas. & Son Co., 148 Classon av., Brooklyn, N. Y.
 St. Albans Foundry & Implement Co., St. Albans, Vt.
 Salem Iron Works, Winstou-Salem, N. C.
 Sandwich Mfg. Co., Sandwich, Ill.
 Silver Mfg. Co. "Daisy" Power & Sweep, Salem, O.
 Smalley Mfg. Co., Manitowoc, Wis.
 Smith & Pomeroy Wind Mill Co. ("Eureka"), Kalamazoo, Mich.
 Snow Mfg. Co., Geneva, Ill.
 South Bend Foundry-Co., South Bend, Ind.
 Southern Engine & Boiler Works (Inc.), Jackson, Tenn.
 Spartan Mfg. Co. ("Corn-Belt"), Galesburg, Ill.
 Sprout, Waldron & Co., Muncy, Pa.
 Star Mfg. Co. (Sweep & Belt Power), New Lexington, O.
 Starr, B. F. & Co., 455 North Baltimore, Md.
 Sterling Mfg. Co., Sterling, Ill.
 Stevens, A. W. Co. (Also French Buhr), Mariette, Wis.
 Stevens Mfg. Co., Joliet, Ill.
 Stover Mfg. Co. ("The Ideal," also with Horse Power Combined), Freeport, Ill.
 Straub Machinery Co., Cincinnati, O.
STROUD, E. H. & CO., 36 La Salle, Chicago, Ill. (See adv. below)
 Sundries Mfg. Co., South Bend, Ind.
 Twin City Iron Works, Minneapolis, Minn.
 U. S. Wind Engine & Pump Co., Batavia, Ill.
 Waterloo Furnace & Feed Mill Co., Waterloo, Ind.
 Whitman Agricultural Co., 6900 S B'way, St. Louis, Mo.
 Woodcock J. C. Feed Mill Co. ("Boss"), Alton, Ill.
 Zimmerman, A. A., New Holland, Pa.

Mills for Enamel

Ross, Chas. & Son Co. ("Eccentric"), 148 Classon av., Brooklyn, N. Y.

*Mills for Grinding Chemicals

BROWN, A. & F. CO., 25 Dey, New York. (See adv. index, end of book)

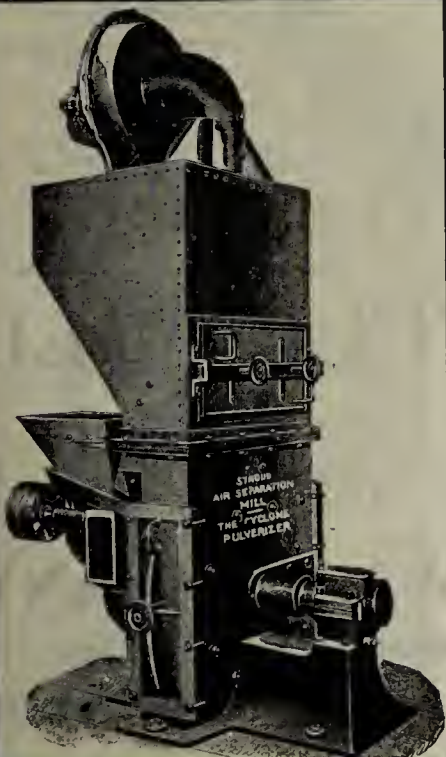
*Mills (Gold & Silver)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices end of book)

Mills (Grinding)

(See also Machinery, Pulverizing.)

Acton, John, 118 John, Brooklyn, N. Y.
BARTLETT, C. O. & SNOW CO., (Cement, Paint, Spices, etc.), Cleveland, O. (See adv. index, end of book)
BRADLEY PULVERIZER CO. (The "Griffin"), 92 State, Boston, Mass.
BROWN, A. & F. CO. ("Cogswell"), 25 Dey, New York. Works: Elizabethport, N. J. (See adv. on following page)
 Campbell, P. F. (For Drugs, Fertilizers, Whiting, etc.), 55 Laurel, Philadelphia, Pa.
 Carey, Samuel, 17 State, N. Y.
CURRIER, CYRUS & SONS (For Plastic Materials), Newark, N. J. (See adv. index, end of book)
 Daniel Wm. Sons Co. (Paint, etc.), Providence, R. I.
 Day, J. H. Co., 1144 Harrison av., Cincinnati, O.
 De Loach Mill Mfg. Co., Atlanta, Ga.
 Emerick, Geo. S., Nazareth, Pa.
 Enterprise Mfg. Co., 3d & Dauphin, Phila., Pa.
 Excel Mfg. Co., Pottersville, N. J.
 Foos Mfg. Co. ("Scientific" Grinding), Springfield, O.
 Houchin & Huber, 35 53d, Brooklyn, N. Y.
 Huntington Dry Pulverizer Co., 120 B'way, New York
 Kaestner & Co. (Inc.) (Portable), 241 S Jefferson, Chicago
 Kent Machine Works, 246 Plymouth, Brooklyn, N. Y.
 Kent Mill Co., 170 B'way, New York
KOVEN, L. O. & BRO., 50 Cliff, New York (See adv. index, end of book)
 Lehigh Car Wheel & Axle Wks. ("Fuller Lehigh" Pulverizer), Catasauqua, Pa.
 Miller, L. J. (Bone, Grain, Salt, Oil Cake, etc.), 1233 Harrison, Cincinnati, O.
 Nebel, M. A., 72 Grand av., Brooklyn, N. Y.
 Newell Mfg. Co., 149 B'way, New York
 Nordyke & Marmon Co. (Roller & Buhr Stone), Indianapolis, Ind.
 Phillipsburg Mfg. Co., Phillipsburg, N. J.
 Raymond Bros. Impact Pulverizer Co., 143 Lavin, Chicago



ON MOST KINDS OF WORK THE STROUD MILLS OUTDO ALL OTHERS

Crushing Mills

Disintegrating Mills

Pulverizing Mills

Shredding Mills

Our **AIR SEPARATION PULVERIZERS** produce, direct from the mill, any desired mesh, from say 40x40 down to the MOST IMPALPABLE POWDERS, at will of operator, at a moment's notice. Five sizes. All built practically alike. Dustless in Operation. Do away with sieving entirely.

E. H. STROUD & CO., ENGINEERS and MANUFACTURERS
 30 - 36 La Salle Street, CHICAGO, ILLINOIS

Ross, Chas. & Son Co. (French Buhr), 148 Classon av, Brooklyn, N. Y.
 Salem Iron Works (French Buhr), Winston-Salem, N. C.
 Schultz-O'Neill Co., Minneapolis, Minn.
 Simpson, Jas. S. (Bone, Cork, Spice, Oil, Cake, Paint, etc.), 26 Rodney, Brooklyn, N. Y.
SMITH, F. L. & CO. (Cement), 39 Cortlandt, New York. (See adv. index, end of book)
 Smith, Theodore & Sons Co., ft of Essex, Jersey City, N. J.
 Spront-Waldron & Co. (Paint, Cement, Phosphate, Oil, Cake, Cotton Seed, etc.), Muncy, Pa.
 Starr, B. F. Co. (for Flour & Corn Mills), 455 North, Baltimore, Md.
 Steadman Foundry & Machine Works, Aurora, Ind.
 Straub Machinery Co., 1956 W 6th, Cincinnati, O.
STROUD, E. H. & CO., 36 La Salle, Chicago, Ill. (See adv. on preceding page)
 Sturtevant Mill Co. (Cement, Lime, Paint, etc.), Clayton & Park, Dor., Boston, Mass.
 Walker & Elliott (Fertilizer, Cement, Phosphate, etc.), Wilmington, Del.
 Wilson Bros, Easton, Pa.

Mills (Hollow)

Brown & Sharpe Mfg. Co. (with Inserted Blades, etc.), Providence, R. I.
MORSE TWIST DRILL & MACHINE Co., New Bedford, Mass. (See adv. index, end of book)

*Mills (Huntington)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

Mills (Ink)

Black & Clawson Co., Hamilton, O.
 Houchin & Huber, 35 55th, Brooklyn, N. Y.
 Kent Machine Works, 248 Plymouth, Brooklyn, N. Y.
 Poole, J. Morton Co., Wilmington, Del.
 Ross, Chas. & Son, 148 Classon av, Brooklyn, N. Y.
STROUD, E. H. & CO., 36 La Salle, Chicago, Ill. (See adv. on preceding page)

*Mills (Linseed)

ELMES, CHAS. F. ENGINEERING Works, c Fulton & N Sangamon, Chicago, Ill. (See adv. index, end of book)

Mills (Mustard)

Kelso & Co., 209 S Clinton, Chicago, Ill.
STROUD, E. H. & CO., 36 La Salle, Chicago, Ill. (See adv. on preceding page)

*Mills (Nut Grinding)

STROUD, E. H. & CO., 36 La Salle, Chicago, Ill. (See adv. on preceding page)

Mills (Oil Cake)

BROWN, A. & F. CO. ("Cogswell"), 25 Dey, New York. Works: Elizabethport, N. J. (See adv. below)

Buckeye Iron & Brass Works, Dayton, O.
 Campbell, P. F., 55 Laurel, Phila., Pa.
 Carey, Samuel, 17 State, New York
 Cardwell Machine Co., Richmond, Va.

ELMES, CHAS. F. ENGINEERING Works, Fulton & N Sangamon, Chicago, Ill. (See adv. index, end of book)

Excel Mfg. Co., Pottersville, N. J.
 Foos Mfg. Co. ("Scientific" Grinding), Springfield, O.

McLauthlin, Geo. T. Co., 120 Fulton, Boston, Mass.

Poole Engineering & Machine Co., Woodberry Station, Baltimore, Md.
 Sprout, Waldron & Co., Muncy, Pa.

STROUD, E. H. & CO., 36 La Salle, Chicago, Ill. (See adv. on preceding page)

Van Winkle, E. Gin & Mach. Works, Atlanta, Ga.

Mills (Pebble Tube)

(See Mills, Ball & Pebble.)

*Mills (Plate Rolling)

MORGAN ENGINEERING CO., Alliance, O. (See adv. index, end of book)

Mills (Prospecting)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

Hamilton, Wm. Mfg. Co., Peterboro, Ont., Canada

Union Iron Works, 222 Market, San Francisco, Cal.

Mills (Pug)

American Clay Machinery Co., Bucyrus, O., & Willoughby, O.

BONNOT COMPANY, Canton, O. (See adv. index, end of book)

Brewer, H. & Co., Tecumseh, Mich.
 Chambers Bros. Co., 52d, bel Lancaster av, Phila., Pa.

Freese, E. M. & Co., Gallion, O.
 Horton Mfg. Co. (Iron & Steel), Painesville, O.

Leader Mfg. Co., Decatur, Ill.
 Michigan Brick & Tile Mach. Co., Morenci, Mich.

Phillips & McLaren, 24th & Smallman, Pittsburgh, Pa.

Potts, C. & A. Co., 816 W Washington av, Indianapolis, Ind.

Steele, J. C. & Son, Statesville, N. C.

Stevenson Co., Wellsville, O.
 United Iron Works Co., Springfield, Mo.

Wallace Mfg. Co., Frankfort, Ind.
 Wellington Machine Co., Wellington, O.

Mills (Quartz)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

BRADLEY PULVERIZER CO. (The "Griffin"), 92 State, Boston, Mass.

Harron, Rickard & McCone (Inc.), 21 Fremont, San Francisco, Cal.

Hendy, Joshua Machine Works, San Francisco, Cal.

Kent Mill Co., 170 B'way, N. Y., Cal.
 Krogh Mfg. Co., San Francisco, Cal.

Krom Machine Works (Rolling Toggle & 4 Life Crushers), 170 B'way, New York. Works: Jersey City, N. J.

Marshutz & Cantrell, Main & Howard, San Francisco, Cal.

Power & Mining Machinery Co., 52 William, New York. Works, Cudahy, Wis.

Raymond Bros. Impact Pulverizer Co., 143 Laflin, Chicago

Risdon Iron Works, Stewart & Folsom, San Francisco, Cal.

Taylor Bros., Grass Valley, Cal.

Mills (Rice)

BROWN, A. & F. CO. ("Cogswell"), 25 Dey, New York. Works: Elizabethport, N. J. (See adv. below)

Nordyke & Marmon Co., Indianapolis, Ind.

Mills (Roller Grinding)

Great Western Mfg. Co. (also Roller Feed), Leavenworth, Kan.

Nordyke & Marmon Co. (Double Two Pair, High Four Roller & Three Pair, High Six Roller, etc.), Indianapolis, Ind.

Richmond City Mill Works (for Grain), Richmond, Ind.

Sprout, Waldron & Co., Muncy, Pa.

Straub Machinery Co. (Corn & Wheat), 1926 W 6th, Cincinnati, O.

Mills (Rosin)

Barnett, Oscar Foundry Co. (Automatic), Newark, N. J.

Sly, W. W. Mfg. Co., Cleveland, O.

STROUD, E. H. & CO., 36 La Salle, Chicago, Ill. (See adv. on preceding page)

*Mills (Sand)

STANDARD SAND & MACHINE CO. (Ball Bearing, Centrifugal Pulverizer), 5151 St. Clair, Cleveland, O. (See adv. index, end of book)

Mills (Shell End)

Becker, Brainard Milling Machine Co., Hyde Park, Mass.

MORSE TWIST DRILL & MACHINE Co., New Bedford, Mass. (See adv. index, end of book)

*Mills (Slabbing)

MORGAN ENGINEERING CO., Alliance, O. (See adv. index, end of book)

Mills (Stamp)

ALLIS-CHALMERS CO. (Steam, Gravity & Atmospheric), Milwaukee, Wis. (See adv. index & branch offices, end of book)

Arizona & Sonora Mfg. Co., Nogales, Ariz.

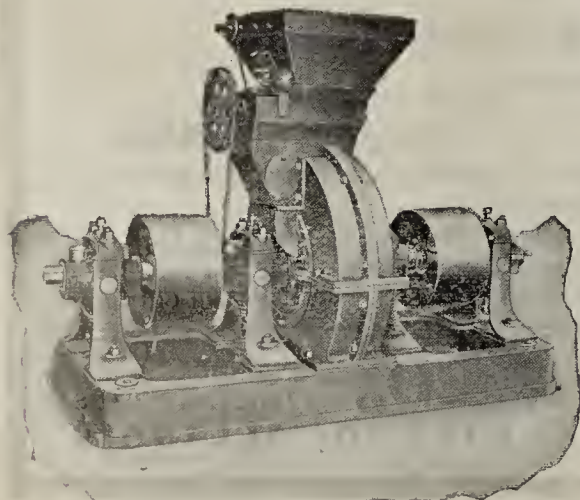
Ashland Iron Works, Ashland, Oregon

Caird & Harksworth, Helena, Mont.

Chalmers & Williams, Railway Exchange bldg, Chicago, Ill.

Colorado Iron Works Co., Denver Colo.

Davis, F. M. Iron Works Co., 8th & Larimer, Denver, Colo.



THE COGSWELL MILL

Will grind many materials better, quicker with less heating and take less power than any other mill on the market.

LET US KNOW WHAT YOU WANT TO GRIND.

THE A. & F. BROWN COMPANY

Engineers, Founders, Machinists and Millwrights

25 DEY STREET,

NEW YORK

Shafting, Pulleys, Hangers, Gears, Friction Clutches, Etc.

Denver Engineering Works, Denver, Colo.
 Globe Iron Works (Inc.), Stockton, Cal.
 Hamilton, Wm. Mfg. Co., Peterboro, Ontario,
 Hammond Mfg. Co., Portland, Ore. Canada
 Hendy, Joshua Mach. Works, San Francisco, Cal.
 Lombard Iron Works & Supply Co., Augusta, Ga.
 McFarlane & Co., 1734 15th, Denver, Colo.
 Mecklenburg Iron Works, Charlotte, N. C.
 Merril Machinery Co., 1123 B'way, New York
 Mine & Smelter Supply Co., Denver, Colo., &
 42 B'way, New York
 Montgomery, J. H. Machinery Co., 1220 Curtis,
 Denver, Colo.

National Iron Works, Spokane, Wash.
 Power & Mining Machinery Co., 52 William,
 N. Y. Works, Cudahy, Wis.
 Portage Lake Foundry & Machinery Co., Han-
 cock, Mich.
 Rapid Economy Stamp Mill Co. ("Richard's"),
 San Francisco, Cal.
 Snyder, Fredk. T. & Co., 324 Dearborn, Chi-
 cago, Ill.
 Stearns, Roger Mfg. Co., 1718 California, Den-
 ver, Colo.

Vulcan Iron Works, San Francisco, Cal.
 Traylor Engineering Co., 114 Liberty, New York
 Union Iron Wks. 222 Market, San Francisco, Cal.
 Union Iron Works, Spokane, Wash.
WELLMAN-SEEVER-MORGAN CO.,
 Cleveland, O., & Akron, O. (See adv. in-
 dex, end of book)

Mills (Stave Tumbling)

Central Iron Works, Quincy, Ill.

Mills (Tube)

(See Mills, Ball & Pebble.)

Mills (Tumbling)

(See also Barrels Tumbling & Rumbling.)

KOVEN, L. O. & BRO., 50 Cliff, New
 York. (See adv. index, end of book)
 Sly, W. W. Mfg. Co. (Exhaust Steel), Cleve-
 land, O.
WHITING FOUNDRY EQUIPMENT
 Co., Harvey, Ill. (See adv. index & branch
 offices, end of book)

Mills (Water Polishing)

Sly, W. W. Mfg. Co., Cleveland, O.
WHITING FOUNDRY EQUIPMENT
 Co., General Office & Works, Harvey, Ill.
 (See adv. index & branch offices, end of book)

Mills (Wire Flattening)

Blake & Johnson (Inc.), Waterbury, Conn.
 Waterbury Farrel Foundry & Machine Co.,
 Waterbury, Conn.

Mine & Dump Cars

(See Cars of Various Kinds.)

Mineral Wool Mfrs.

American Insulating Material Mfg. Co., Alex-
 andria, Ind.
 Columbia Mineral Wool Co., 112 Clark, Chicago,
 Ill. Works, So. Milwaukee, Wis.
 Union Fibre Co. (Loose Board & Brick), Wi-
 nona, Minn., & Milwaukee, Wis.
UNITED STATES MINERAL WOOL
 Co., 140 Cedar, New York. (See adv. below)

Miners' Needles & Scrapers

Christman Co. Massillon, O.
 Hardsocg, Martin Co., Allegheny, Pa.
 Hubbard & Co. Pittsburg, Pa.
 Klein-Logan Co., Pittsburg, Pa.
 Pittsburg Tool & Drop Forge Co. ("Cheswick"),
 Cheswick, Pa.

Miners' Wick

Hoffman-Corr Mfg. Co., 55 White, New York

Miners' Wire Screens

(See Screens, Various Kinds.)

Mining Cages

(See Cages, Mining.)

Mining Machinery

(See Machinery, Mining.)

Mining Machines

(See Machines, Coal Cutting.)

Mirror Frames (Brass)

Edwardsville Brass Co., Edwardsville, Ill.

Mirrors (Bath Room)

Ireland & Matthews Mfg. Co., Detroit, Mich.

Mirrors (Plate Glass)

Crane Glass & Mfg. Co., Cleveland, O.
 Donnelly, J. R. Co., 54 Classon av., Brooklyn,
 N. Y.
 Jamestown Mirror Works, Jamestown, N. Y.
 Louisville Ornamental Glass Co., Louisville, Ky.
 Niagara Glass Works, Buffalo, N. Y.
 Pittsburgh Plate Glass Co., Pittsburg, Pa.
 Standard Mirror Co., Buffalo, N. Y.
 Western Sand Blast Mfg. Co., 21st & Marshall
 boul, Chicago, Ill.

Mirrors (Shock)

Allison & Doughty, 451 Greenwich, New York

Mitre Scale

Reeves Mfg. Co., Milford, Conn.
 Reissmann, F., West Point, N. Y.

Mixers (Asphalt)

(See Asphalt Mixers.)

Mixers (Bread)

Pritchard-Strong Co. ("Prisco"), Rochester, N. Y.



A
HOUSE
 THAT IS
 LINED WITH
Mineral Wool
 IS WARM IN
 WINTER AND COOL
 IN SUMMER.

MINERAL WOOL

IS UNEQUALED FOR

Deadening of Sound,
 Vermin and Fire Proofing.

Affords the Best Protection Against Heat and Cold.

CHEAP AND EASILY APPLIED.

SAMPLE AND CIRCULAR FREE.
 CORRESPONDENCE SOLICITED.

U. S. MINERAL WOOL COMPANY
 140 CEDAR STREET, NEW YORK

Mixers (Cement)

CEMENT MACHINERY CO., Jones
Bldg., Jackson, Mich.
Michigan Iron Works ("Eureka") Hand Power)
Manistee, Mich.

Mixers (Clay)

Chambers Bros. Co., 52d, bel Lancaster, av,
Phila., Pa.
Fernholtz Brick Machinery Co., Boyle & Old
Manchester avs, St. Louis, Mo
Scott Mfg. Co., Keokuk, Iowa.

Mixers (Concrete)

(See Concrete Mixers)

Mixers (Fertilizer)

Day, J. H. Co., 1144 Harrison av, Cincinnati,
O., & 76 Park pl, New York
Dempwolf, O. H. & Co., York, Pa.
Dempwolf, E. A. & Sons, York, Pa.
KOVEN, L. O. & BRO., 50 Cliff, New
York. (See adv. index, end of hook)
Poole Engineering & Machine Co., Woodberry
Station, Baltimore, Md.
Stedman's Foundry & Machine Works, Aurora,
Ind.
Superior Tool & Supply Co. ("Superior" Double),
500 E. Front, Cincinnati, O.
Walker & Elliott, Wilmington, Del.

Mixers (Foundry Sand)

Barhour-Stockwell Co. ("Boston"), Cambridge-
port, Mass.
Sellers, Wm. & Co. (Centrifugal), 1600 Hamil-
ton, Phila., Pa.
Sly, W. W. Mfg. Co., Cleveland, O.
Stockham Homogene Mixer Mfg. Co., Plqua, O.

Mixers (Gas)

Campbell, J. B. Brass Works, Erie, Pa.
Edwardsville Brass Co., Edwardsville, Ill.
Hays Mfg. Co., Erie, Pa.

Mixers (Metal)

Pollock, Wm. B. Co., Youngstown, O.

Mixers (Mortar)

(See also Concrete Mixers)

Municipal Engineering & Contracting Co., Chi-
cago, Ill.
Teal, Chas. A. (for Ready Mixed Mortar, etc.),
1361 Rldge av, Phila., Pa.
U. S. Concrete Machine Co. ("Grant"), Detroit,
Walker & Elliott, Wilmington, Del. Mich.

Mixers (Paint, Power)

Canton Foundry & Machine Co., Canton, O.

Mixers (Plaster)

(See also Mills, Grinding).

Day, J. H. Co., 1144 Harrison av, Cincinnati,
O., & 76 Park pl, New York
Dunning, W. D., Syracuse, N. Y.

Mixers (Sand)

(See Mixers, Foundry Sand)

Mixers (Sausage Meat)

Murray Iron Works Co. ("New Murray" &
"Zimmerman"). Burlington, Vt
Superior Tool & Supply Co. ("Superior" Double)
500 E. Front, Cincinnati, O.

Modelers & Sculptors (Architectural)

ARCHITECTURAL DECORATING CO.,
643 S Jefferson, Chicago, Ill. (See adv. index, end of hook)
Bailey Co. (Wood), 224 21st, Detroit, Mich.
Bell & Mauch, 28 St. Clair, Chicago, Ill.
Berger Emil, 204 E. 27th, New York
Brehner, A. & Co., 220 N 2d, St. Louis, Mo.
Calrns, Hugh, 48A Sudbury, Boston, Mass.
Campbell & Horrigan Marble & Monumental
Church Art Work Co., 151 E 18th, New York

Cincinnati Plastic Relief Co., Station M, Cincin-
nati, O.
DECORATORS' SUPPLY CO., Archer
av. & Leo, Chicago, Ill. (See adv. index, end
of hook)

Dittgen & Rapp, 3927 Spencer av, Norwood, O.
Dux, Jos., 132 W Jackson blk, Chicago, Ill.
Eastern Ornamental Plaster Co., Brooklyn, N. Y.
Eastman & Johnstone Mfg. Co., 1711 St.
Charles, St. Louis, Mo.

Ellin, Kitson & Co., 25th & N River, N. Y.
EMMEL, CHAS., 383 Albany, Boston,
Mass. (See adv. index & branch offices, end
of book)

Entress, Albert, 597 Main, Hartford, Conn
Evans, John & Co., 77 Huntington av, Boston,
Mass.

Fischer & Jirouch, 16 Scovill av, Cleveland, O.
Forman Bros., 645 Gates av, Brooklyn, N. Y.
Fowle, Herbert, 43 Bristol, Boston, Mass.
Gladwin, Stephen C., 20 Newton, Cleveland,
Ohio

Haigermoser, Jos., 250 Randolph, Detroit, Mich.
Halstrick, M., 636 South av, Rochester, N. Y.
Hammerstein & Deniville, 451 W 54th, New
York

Harhaugh, A. J. Marble & Granite Works,
4729 Butler, Pittsburg
Harnisch, Ad. Spencer, n Chlorine Springs,
Syracuse, N. Y.

Hartley, Jonathan Scott, 145 W 55th, New York
Hutter & Sarsi, 519 W 21st, New York
Knoche & Steves, 2101 Reading Rd., Cincinnati,
O.

Koppe & Steinhilchen, 89 Houston, Atlanta, Ga.
Lamb, J. & R. (Inc.), 25 6th av, New York
Langenbahn, August A. & Son, 440 7th, Buf-
falo, N. Y.

Lauter, Chas., 1856 E 160th, New York
Liebold, O., 83 Randolph, Detroit, Mich.
Maene, Edourd, 309 S Lawrence, Philadelphia,
Pa.

Milwaukee Ornamental Carving Co., Milwaukee,
Wis.

Miranda, Fernando, 524 W 30th, New York
Nygard, Alfred F., 68 Cass, Detroit, Mich.
Rackle, Geo. & Son, Superior & Rossiter, Cleve-
land, O.

Richard, Louis, 110 West End av, N. Y.
Schellentrager, Louis F., Seneca & Long, Cleve-
land, O.

Schneider, F. H., 120 Burnet, Syracuse, N. Y.
SEIFERT, FRANK A., PLASTIC
Relief Co., 2646 Lawton av, St. Louis, Mo.
(See adv. index, end of book)

Shaw & Co., 311 N 15th, Phila., Pa.
SLEEP, ELLIOTT & KING CO., Inc.,
562 W 23d, New York & 351 Cambridge,
Boston, Mass. (See adv. index, end of book)

Smith, Jos. & Co., 428 E 23d, N. Y.
Stoltzenberg Co., 51 Barclay, New York
Tognarelli & Voight, 2310 Chestnut, Phila., Pa.
Van Malderen, F., Jurnonville & Ann, Pitts-
burg, Pa.

Vogt, Paul & Sons, 97 Haverhill, Boston, Mass.
Walter, G. E. Co., 157 E 44th, New York
Weary, Edwin D., 1st Nat. Bank bldg, Chicago,
Ill.

Whitman, J. Franklin Co., 432 N 12th, Phila.,
Pa.

***Modeling Composition ("Plas-
tilina")**

SOLTMANN, E. G.
(Useful in Every School), 125 E 42d, New
York. (See adv. index, end of book)

**Models, Trademarks & Mono-
grams (Wood)**

Spanger Bros., Newark, N. J.

Models & Experimental Work

(See also Pattern & Model Makers.)

Acorn Brass Mfg. Co., 51 N Peoria, Chicago,
Allen, Geo. R., 500 N 13th, Phila., Pa. Ill.
Armor Clad Mfg. Co., Canton, O.
Baillard, E. V., Fox bldg, Franklin sq, N. Y.
Baird Machine Co., Oakville, Conn.
Baltimore Pattern & Model Works (Metal &
Wood), 218 N Holliday, Baltimore, Md.

Boyce, Myron J., 584 Hudson, New York
Chadborn & Bledsoe, Kansas City, Kan.
Dressler, C. E. & Bro., 17 Lexington av, N. Y.
Electric Appliance Co., Waterbury, Conn.
Fanning, J. P. (Pattern Maker), 678 Jefferson
av, Brooklyn, N. Y.

Fenn Machine Co., 734 Main, Hartford, Conn.
Globe Machine & Stamping Co., Cleveland, Ohio

Goodwin & Kintz Co., Winsted, Conn.
Grissold, Geo. M., New Haven, Conn.
Hart, Fred'k, Poughkeepsie, N. Y.

Hervey Machine Works, Kansas City, Mo.
Hurd & Haggin, 316 Hudson, New York
Ideal Machine Works, 257 39th, Brooklyn, N. Y.
Lang, J. Electric Co., 176 E Indiana, Chicago,
Ill.

Manufacturers & Inventors Electric Co., 84 Nas-
sau, New York
MANAHAN, J. ARCHIBALD, 1907
Park av, New York. (See adv. index, end of
Reeves Mfg. Co., Milford, Conn. book)

Reliance Machine & Tool Works, St. Louis, Mo.
Sommerfeld Machine & Mfg. Co., 220 2d av,
Pittsburg, Pa.

Spindler & Deringer, 18 Morris, Jersey City,
N. J.

Tolhurst, Wm. H. & Son, Fulton & 6th av,
Troy, N. Y.

Ziegler Apparatus Co., 200 Summer, Boston,
Mass.

Moistening Apparatus.

(See Textile Machinery)

Molders' Flasks.

(See Flasks, Molders'.)

Molds (Babbitt Metal & Solder)

Fanning, J. P., 678 Jefferson av, Brooklyn,
N. Y.

Molds (Bar Lead, Buck Shot & Bullet)

Fanning, J. P., 678 Jefferson av, Brooklyn,
N. Y.

Molds (Brick)

Horton Mfg. Co., Painesville, O.
Phenix Mfg. Co., Humboldt av, cor Centre &
Milwaukee, Wis.

Scott Mfg. Co., Keokuk, Ia.

Molds (Capsule)

Kutz & Gift, Allentown, Pa.

Molds (Copper)

Power & Mining Machinery Co., 52 William,
New York, & Cudahy, Wis.

Molds (Cylinder)

BIGELOW, CHENEY WIRE WORKS,
Springfield, Mass. (See adv. index, end of
book)

Eastwood Wire Mfg. Co., Belleville, N. J.

Molds (Glass House)

Ayars Machine Co., Salem, N. J.
Centre Foundry, Wheeling, W. Va.
Evans Mold & Machine Co., Uniontown, Pa.
McKee, W. S., 231 1st av, Pittsburg, Pa.
Wheeling Mold & Foundry Co., Wheeling, W. Va.
Yockel, Chas. & Sons, 1220 N Lawrence, Phila.,
Pa.

Molds (Gold & Silver Bullion)

Power & Mining Machinery Co., 52 William,
New York, & Cudahy, Wis.

Molds (Ingot)

ALLIS-CHALMERS CO., Milwaukee,
Wis. (See adv. index and branch offices, end
of book)

Eastwood Wire Mfg. Co., Belleville, N. J.
Marshall Foundry (Steel), 28th & R R, Pitts-
burg, Pa.

PAXSON, J. M. CO., 1021 N Del. av.
Phila., Pa. (See adv. index, end of book)
Penn Engineering Works, New Castle, Pa.
Phila. Roll & Machine Co., Phila., Pa.

Sharon Foundry Co. (Steel), Wheatland, Pa.
Pittsburg Mfg. Co., 28th & R R, Pittsburg,
Riverside Foundry Co., Cleveland, O. Pa.

SMITH, J. D. FOUNDRY SUPPLY CO.,
1581 Columbus rd, N. W., Cleveland, O.
(See adv. index, end of book)

Thomas, Jas. E. Co. (Steel), Newark, O.
United Engineering & Foundry Co. (Steel),
Farmers Bank bldg, Pittsburg, Pa.

Vulcan Foundry & Machine Co. (Steel), New Castle, Pa.
West, Thos. D. Foundry Co. (Steel), Sharpsville, Pa.
YAGLE FOUNDRY & MACHINE CO., (Ltd.), 400 32d, Pittsburg, Pa. (See adv. index, end of book)

Molds (Lead Casting)

Bernz, Otto, S 13th & S Orange av, Newark, N. J.
Eastwood Wire Mfg. Co., Belleville, N. J.
Power & Mining Machinery Co., 52 William, New York. Works, Cudahy, Wis.

Molds (Lead Hammer)

Field, Chas. H., Providence, R. I.

Molds (Rubber)

Adamson, A., Akron, O.
AITON MACHINE CO., 126 Liberty, New York. (See adv. index, end of book)
Akron Foundry Co. (All Sizes & Kinds), Akron, O.
Arnold, W. E., Malden, Mass.
Barbour Bros., Trenton, N. J.
BIRMINGHAM IRON FOUNDRY DER- by, Conn. (See adv. index, end of book)
ELMES, CHAS. F. ENGINEERING Works, Fulton & N Sangamon, Chicago, Ill. (See adv. index, end of book)
Goodyear Tire & Rubber Co., Akron, O.
Hoggson & Pettis Mfg. Co., New Haven, Conn.
Williams Foundry & Machine Co. (also Dies), Akron, O.

Molds (Rubber Tire)

Bay State Machine Co., Erie, Pa.
Thropp, Jno. E., Sons. Co., Trenton, N. J.

Molds (Solder)

Bernz, Otto, S 13th & S Orange av, Newark, N. J.
Haydenville Co., Haydenville, Mass.
Kupferle, Jno. C., 2d & Mound, St. Louis, Mo.
Miller Iron Co., Providence, R. I.
Modern Iron Works (Half Round Bar), Quincy, Ill.
Mott, J. L. Iron Works, 88 Beekman, N. Y.
Osborne, C. S. & Co., Newark, N. J.
Sayre, L. A. & Co., Newark, N. J.

Molds (Tack)

Bailey-Farrell Mfg. Co., Pittsburg, Pa.
Bernz, Otto, S 13th & S Orange av, Newark, N. J.
Creswell, Jas. Mfg. Co., Denver, Colo.
Haydenville Co., Haydenville, Mass.
Knapp Mfg. Co., 22 Frankfort, N. Y.
Mueller, H. Mfg. Co., Decatur, Ill.
Peck Bros. & Co., New Haven, Conn.
Rundle-Spence Mfg. Co., Milwaukee, Wis.
Springfield Brass Co., Springfield, Mass.
Street & Kent Mfg. Co., 41 Fulton, Chicago, Ill.
Wolff, L. Mfg. Co., 117 W Lake, Chicago, Ill.

Molybdenum

Foot Mineral Co., 1317 Arch, Phila., Pa.
Goldschmidt Thermit Co., 90 West, New York
Prima Chemical Co., 36 Lansdowne, Phila., Pa.
Roesler & Hasslacher Chemical Co., 100 William, New York

Monnot Metals

Duplex Metals Co. (Bars, Rods, Sheets & Wire), 208 5th av, New York. Works: Chester, Pa.

Monuments & Statuary (Bronze)

(See Bronze Monuments and Statuary.)

Mop Sticks & Holders

Acme Washing Machine Co. (With Wringer Attached), Columbus, O.
Arcade Mfg. Co. ("Gem," "Freeport," "Arcade," "Standard" Screw, "Trojan," "Favorite" & "Climax"), Freeport, Ill.
James Mfg. Co., Auburn, N. Y.
National Novelty Corp. ("Brighton"), 826 B'way, New York
Parks & Parks, Troy, N. Y.
Phillips, A. J. & Co. (Sticks only), Fenton, Mich.

Mops (Cotton)

Blakely, Jno. & Son, 1080 Gtn. av, Phila., Pa.
Curtis, Wm. H., Woburn, Mass.
Devon Mills (George S. Browne, Propr.), Providence, R. I.
Elkin Mfg. Co., Elkin, N. C.
Estes Mills (Inc.) (Floor & Dish Mops), Fall River, Mass.
Massasoit Mfg. Co., Fall River, Mass.
Naurath, J. P. & Co., 2 Lispenard, N. Y.
Ryall, W. S. & Co., Chattanooga, Tenn.
Stover, Mfg. Co., Freeport, Ill.
Thomaston Mfg. Co. (Self Wringing Mops), Thomaston, N. Y.

Mops (Roofing)

Barrett Mfg. Co., Land Title bldg, Phila., Pa.

Mops (Spring)

Stover Mfg. Co., Freeport, Ill.

Mortar Color Mfrs.

ATLAS PAINT CO. (Ltd.), 2638 Liberty, av, Pittsburg, Pa. (See adv. index, end of book)
Bowen's, S. Son, 4th & Venango, Phila., Pa.
CABOT, SAMUEL, 141 Milk, Boston, Mass. & 28 Dearborn av, Chicago. (See adv. index & branch offices, end of book)
Camhria Paint & Color Co. (Ltd.), Johnstown, Pa.
Chattanooga Paint Co., Chattanooga, Tenn.
Cleveland Iron Ore Paint Co., Cleveland, Ohio
Clinton Metallic Paint Co., Clinton, N. Y.
Connors, Wm. Paint Mfg. Co., Troy, N. Y.
Erwin, Henry, Bethlehem, Pa.
FRENCH, SAML. H. & CO., 4th & Callowhill, Phila., Pa. (See adv. on following page)
Garry Iron & Steel Co., Cleveland, O.
Jamestown Paint & Varnish Co., Jamestown, Pa.
Mepharm, G. S. & Co., East St. Louis, Ill.
Pittsburg Iron Paint Co. ("Keystone"), Allegheny, Pa.
Ricketson Mineral Paint Works, 404 B'way, Milwaukee, Wis.
Rossie Iron Ore Paint Co. (Caloric Red), Ogdensburg, N. Y.
Semple, Frank G., Bethlehem, Pa.
Toch Bros., 320 5th av, New York
Wells, Jas. M. Co., Ogdensburg, N. Y.
Wilhelm, A. Co., Reading, Pa.
Williams, C. K. & Co., Easton, Pa.

Mortar (Machine Mixed)

Buffalo Paragon Wall Plaster Co., 11 Breckenbridge, Buffalo, N. Y.
Builders' Supply Co., Norfolk, Va.
Knickerbocker Lime Co., 366 N 24th, Philadelphia, Pa.
National Mortar Co., 625 F, N W, Washington, D. C.
Quaker City Mortar Co., 50 N 23d, Philadelphia, Pa.
U. S. Mortar Supply Co., 1123 B'way, New York
Warner, Charles Co., Wilmington, Del.

Mortar (Patent Soapstone)

American Soapstone Finish Co., Chester Depot, Vt.

Mortar (Prepared)

Higginson Mfg. Co. ("Higginson's," for Plastering & Finishing Walls), Newburgh, N. Y.

Mortar & Brick Hods

(See Hods, Mortar and Brick.)

Mortars (Crushing)

Power & Mining Machinery Co., 52 William, New York, & Cudahy, Wis.
WELLMAN-SEEVER-MORGAN CO., Cleveland, O., & Akron, O. (See adv. index, end of book)

Mortisers (Chain Saw)

New Britain Machine Co., New Britain, Conn.

Mosaic Cube Importers

Duche, T. M. & Sons, 82 Beaver, New York
Jackson, C. D., ft E 105th & East River, New York
BOCKMANN, A. E., 1265-9 B'way, New York. (See adv. index, end of book)

Pisani Bros., Astoria (Boro. of Queens), N. Y.
Rossmann, Robt., 149 W 24th, New York
Roussel, Chas. J., 524 W 50th, New York
Toscani Bros., 163 E 35th, New York

Mosaics (Ceramic)

Alexander & Reid Co. (Circular), 127 E 23d, New York
American Mosaic Co., 97 Shelby, Detroit, Mich.
Art Mosaic Works, Zanesville, O.
Bortoli Co., 125 Marietta, Atlanta, Ga.
Bradbury Marble Co., 1229 S 2d, St. Louis, Mo.
Bressler, E. A. Co., 26 Laf. av, Detroit, Mich.
California Marble Mosaic Co., San Francisco, Cal.
Caretti, John & Co., 47 W Lake, Chicago
CASCIO, S., 797-803 Lexington, Brooklyn, N. Y. (See adv. index, end of book)
Cassini Mosaic Tile Co., 10 E 7th, Cincinnati, O.
Davis, Frank L., Fuller bldg, New York.
Davis Mosaic Co., 302 Michigan av, Chicago, Ill.
Donna, J. P. Tile Co., 1634 Park av, New York
Eastern Vitrae Mosaic Co., Inc., 1634 Park av, New York
Federal Tiling & Mantel Co., 131 W 24th, New York
Hawes & Dodd, 24 Adams, Chicago, Ill.
Interior Woodworking Co., 296 Wahash av, Chicago, Ill.
Italian Marble Mosaic Co., 431 Spruce, Phila., Pa.
Kerr & Murphy, 1247 Union av, New York
Kramig, R. E. & Co., 234 E 6th, Cincinnati, Ohio
Lage, (Mrs.) Bernard H., 484 Greenwich, New York. Factory: Menlopark, N. J.
Lorenzen, Chas. F. & Co., 278 N. Ashland av, Chicago, Ill.
Manhattan Glass Tile Co., 157 10th av, New York
Mion Bros., Atlanta, Ga.
Murdock-Shaw Co., Boston, Mass.
New York Vitified Tile Works, 79 4th, Brooklyn, N. Y.
Pellarin & Co., 23 W 8th, N. Y.
Rossmann, Robt., 149 W 24th, New York
Sharpless & Watts, 15th & Walnut, Phila., Pa.
Stoltzenberg & Co., 51 Barclay, New York
Toscani Bros., 163 E 35th, New York
Toscani, J. A. & Co., 154 E 33d, New York
Traitel Bros. & Co., 44 E 19th, New York
Venetian Mosaic & Granitoid Co., 2241 Clark av, St. Louis, Mo.
Weary & Beck, First National Bank bldg, Chicago, Ill.

Mosaics (Glass)

Assembled Tile & Slab Co. (Cut Glass, all Colors), S 16th & Muriel, Pittsburg, Pa.
BATTERSON & EISELE, Main Office & Works, Edgewater, N. J., & Times bldg, 42d st, New York. (See adv. index, end of book)
Church Art Work Co., 151 E 18th, New York
Giannini & Hilgart, 211 E Madison, Chicago, Ill.
Janes, Walter Co. (New Process), 138 W 42d, New York
Lage, (Mrs.) Bernhard H., Greenwich, New York. Factory: Menlopark, N. J.
McLaury, D. H. Marble Co., Walnut av nr 141st, New York
Manhattan Glass Tile Co., 157 10th av, N. Y.
Norcross Co., 269 River, Cleveland, O.
Shipway, John H. & Bro., ft E 136th, N. Y.
Stoltzenberg Co., 52 Barclay, New York
Toscani, J. A. & Co., 154 E 33d, New York

Mosaics (Marble)

American Mosaic Co., 25 Eastern av, Boston, Mass.
American Mosaic & Tile Co., Louisville, Ky.
BATTERSON & EISELE, Main Office & Works, Edgewater, N. J., & Times bldg, 42d st, New York. (See adv. index, end of book)
Bayan, Jos., 226 E 42d, New York
Belfi Bros. & Co., 22 S 19th, Phila., Pa.
Boote, Alfred Co., 114 W 30th, N. Y.
Bortoli Co., 125 Marietta, Atlanta, Ga.
Bowker, Torrey & Co., 55 Chardon, Boston, Mass.
Buchanan, Jas. M., 2047 Market, Phila., Pa.
Calkins, S. H. Co., 305 N Greene, Baltimore, Md.
Caretti, John & Co., 47 W Lake, Chicago, Ill.
CASCIO, S., 797-803 Lexington av, Brooklyn, N. Y. (See adv. index, end of book)
Cassini Mosaic & Tile Co., 10 E 7th, Cincinnati, O.
Church Art Work Co., 151 E 18th, New York
Cleveland Marble & Mosaic Co., Builders' Ex., Cleveland, O.
Corning, John Herbert, 520 13th, n w, Washington, D. C.
Crawley, George E. & Son, 1 Somerset, Boston, Mass.
Daly, Jas. C. & Co., 1626 Chestnut, Phila., Pa.

Davidson Bros. Marble Co., ft of Orleans, Chicago, Ill.
 Davis, Frank L., Fuller bldg, New York
 Davis, J. W., Newport News, Va.
 Davis Marble Co., 214 S 24th, Phila., Pa.
 Davis Mosaic Co., 302 Michigan av, Chicago, Ill.
 De Paoli Mosaic Association, 7 W 7th, Boston, Mass.
 Des Moines Marble & Mantel Co., Des Moines, Ia.
 Detrick, E. J. Co., 345 4th av, Pittsburg, Pa.
 Drake Marble & Tile Co., 66 E 3d, St. Paul, Minn., & 510 S 2d, Minneapolis, Minn.
 Eastern Vitrae Mosaic Co. (Inc.), 1634 Park av, New York
 Empire City Marble Co., 90 West, New York
 Ferris, Warren B., Columbus Savings & Trust bldg, Columbus, O.
 Fisher, Robert C. Co., E 139th & Locust av, New York
FRENCH, SAMUEL H. & CO., 4th & Callowhill, Phila., Pa. (See adv. below)
 Galbraith, B. G., Harrisburg, Pa.
 Great Western Marble Works, Co., 1602 Reading Pa.
 Hall-Kline Co., 1927 Market, Phila., Pa.
 Hawes & Dodd, 24 Adams, Chicago
 Heidenreich, Geo. E., 268 Erie, Cleveland, O.
 Henry Marble Co., 3208 Shields av, Chicago, Ill.
 Herter Bros., 489 5th av, New York
 Hutchinson, Wm. Seely, 1331 G. N. W. Washington, D. C.
 Interior Woodworking Co., 296 Wabash av, Chicago, Ill.
 Italian Marble Mosaic Co., 431 Spruce, Phila., Pa.
 Iversen, J. C. Co., 425 E. Water, Milwaukee, Wis.
JACKSON, WM. H. COMPANY, 29 E 17th (Union sq), New York. (See adv. index, end of book)
 Keating, M. & Sons Co., 224 Wash'n, Chicago
 Kerr & Murphy, 1247 Union av, New York
 Kramig, R. E. & Co., 234 E 6th, Cincinnati, O.
 Lamb, J. & R. (Inc.), 25 6th av, New York
 Lautz Co., 861 Main, Buffalo, N. Y.
 Lorenzen, Chas. F. & Co., 278 N Ashland av, Chicago, Ill.
 Marble, Henry Co., 1628 Wabash av, Chicago, Ill.
 Marblethic Co., Dayton, O.
 Mart & Lawton, 1123 B'way, New York
 Marthens, Chester N. Co., 748 First National Bank bldg, Chicago, Ill.

Marthens, Chester N. Co., 225 Dearborn, Chicago, Ill.
 McLaury, D. H. Marble Co., Walnut av n 141st, Miou Bros., Atlanta, Ga.
 Mosaic Marble & Enamel Co., ft Hudson, Buffalo, N. Y.
 Motley, Peter, 750 S Broad, Phila., Pa.
 Murdock-Shaw Co., Boston, Mass.
 Naething-Leslie Tile Co., 1123 B'way, New York
 National Mosaic Co., 338 Pennsylvania av, N. W., Washington, D. C.
 New England Marble & Mosaic Co-Operative Co., 36 Chardon, Boston, Mass.
 Norcross Co., 269 River, Cleveland, O.
 Northwestern Mantel Co., Minneapolis, Minn.
 Parker, J. S. & Co., Lexington, Ky.
 Pellarin & Co., 23 W 8th, N. Y.
 Peoria Stone & Marble Works, Peoria, Ill.
 Pickel Marble & Granite Co., 1901 N B'way, St. Pittsburg Marble Mosaic Co., 3448 Penn av, Pittsburg, Pa.
 Rice, W. H., 2519 State, Chicago, Ill.
 Rindold, L. L. & Co., 263 Atlantic av, Boston, Mass.
 Rossman, Robert, 149 W 24th, New York
 Salagona & Co., 422 W 15th, New York
 Sharpless & Watts, 15th & Walnut, Phila., Pa.
 Shipway, Jno. H. & Bro., Locust av & E 136th, New York
 Southern Marble & Stone Co. (Venetian, Roman & Ceramic), Jacksonville, Fla.
 Stanton, Bartley A., Cranston, R. I.
 Stearns & Waterman, 90 Canal, Boston, Mass.
 Stoltzenberg Co., 51 Barclay, N. Y.
 Torman, Jno. H. & Co., 12 McClellan, Baltimore, Md.
 Toscani Bros., 163 E 35th, New York
 Toscani, J. A. & Co., 154 E 33d, New York
 Traitel Bros. & Co., 44 E 19th, New York
 Twin City Tillug Co., 16 North av, Allegheny, Pa.
 Venetian Marble, Mosaic Art Co., 98 Brush, Detroit, Mich.
 Venetian Mosaic & Granitoid Co., 2241 Clark av, St. Louis, Mo.
 Vincent-Barstow Co., 725 Euclid av, Cleveland, O.
 Vulcanite Tile & Mosaic Co., 54 N 6th, Phila., Pa.
 Wadsworth, Chester J., 5806 Euclid av, Cleveland, O.

Weary & Beck, First National Bank bldg, Chicago, Ill.
WEGE, CHAS., MARBLE & TILE Co. (Inc.), 375 W Rich, Columbus, O. (See adv. index, end of book)
 Weller, Anton, 566 B'way, Albany, N. Y.
 White & Whitmore, 424 Asylum, Hartford, Conn.
 Wilson, A. P. Co., Perry bldg, Phila., Pa.
 Young, B. P. Co., Frick bldg, Pittsburg, Pa.

Mosaics (Roman & Venetian)

BATTERSON & EISELE, Main Office & Works, Edgewater, N. J., & Times bldg, 42d st, New York. (See adv. index, end of book)
 Cassini Mosaic & Tile Co., 10 E 7th, Cincinnati, O.
 Fisher, Robt. C. & Co., E 139th & Locust, New York
 Hyde, F. A. Tiling Co., 113 E 27th, N. Y.
 Italian Marble Mosaic Co., 431 Spruce, Phila.
JACKSON, WM. H. COMPANY, 29 E 17th (Union sq), New York. (See adv. index, end of book)
 Mion Bros., Atlanta, Ga.
 Mosaic Marble & Enamel Co., Buffalo, N. Y.
 Murdock-Shaw Co., Boston, Mass.
 Pellarin & Co., 23 W 8th, New York
 Sharpless & Watts, 15th & Walnut, Phila., Pa.
 Toscani Bros., 163 E 35th, New York
 Traitel Bros. & Co., 44 E 19th, New York
 Venetian Mosaic & Granitoid Co., 2241 Clark av, St. Louis, Mo.
 Vulcanite Tile & Mosaic Co., 54 N 6th, Phila., Pa.

Moss

American Fiber Co., Jacksonville, Fla.
 Atkins & Dubrow, 160 Pearl, New York city
 Lounsburg, G. H. & Sons, Cincinnati, O.
 Payne & Co., Dayton, O.

Moss (Irish)

Haskins, L. M., 10 Long wharf, Boston, Mass.
 Keller, Robert, 324 N 2d, Philadelphia, Pa.
 Kiewert, Chas. L. Co., Milwaukee, Wis.
 Schwenker, W. M., 342 E 92d, New York city

FRENCH'S COLORS IN OIL, IN JAPAN & DRY COLORS

Chemically pure, perfect in tone and finest ground.

BUCK WHITE LEAD—The Best White Paint

Standard for Durability in all Climates.

VARNISH AND JAPAN MANUFACTURERS

French's Elastic Finishes and Painters' Wood Finishes.

FRENCH'S CROWN PAINTS—

Ready Mixed, Semi-Liquid and Paste

Manufactured from strictly pure linseed oil and most durable pigments.

FRENCH'S DECORATIVE ENAMEL—In white and eleven beautiful tints

Enamels for Machinery, Bicycles, Etc. Gold and Aluminum Enamels.

PEERLESS MORTAR COLORS—Permanent and Strong.

CEMENTS—*Dexter Portland Cement*—the highest standard attainable.

Meier's Non-Staining Cement—will not stain Oolitic Limestone

Best Imported Portlands and Domestic Rosendale.

PLASTERS—Calcined, Casting and Dental.

MANTELS, TILES AND MOSAICS

Grates and Fire Place Goods.

SAMUEL H. FRENCH & CO.,

PAINT, VARNISH AND BUILDERS' SUPPLIES.



Philadelphia
 ESTABLISHED 1844.

Moss (Peat)

Atkins & Durbrow ("O. K. Holland"), 160 Pearl, New York
 Baker, John E., Garrett, Ind.
 Barrett, C. B. (German Imported), 40 N Market, Boston, Mass.
 Jackson, H. H. (Mfrs.' Agent), 29 B'way, New York

Moss (Sea)

Payne & Co., Dayton, O.
 Selle, H. W. & Co., 216 Lake, Chicago, Ill.

Moss (Tree)

Borgwardt & Ernst Co., 292 W Chicago av, Chicago, Ill.
 Charleston Fibre Co., Charleston, S. C.
 Froreich & Co., Morgan City, La.
 Giles, Geo. & Co., Ocala, Fla.
 Kohlman, Louis, New Orleans, La.
 Luce, Geo. D., New Orleans, La.
 Phoenix Furniture Co., Charleston, S. C.
 Schloss, E., Baton Rouge, La.
 Theard, Septime L., New Orleans, La.

***Moth Destroyers (Vacuum System)**

GENERAL COMPRESSED AIR & Vacuum Machinery Co., 4469 Olive, St. Louis, Mo. (See adv. index, end of book)
VACUUM CLEANER CO., 427 5th av, New York. (See adv. index, end of book)

Motor Boat, Launch & Yacht Builders

(For Designers, see Architects, Naval)
 (See also Ship Builders)

Abercrombie & Fitch Co. (Motor Canoes), 314 B'way, New York
 Adams, W. Irving & Son, East Boothbay, Me.
 Alco Vapor Launch Co., Newark, N. J.
 American Boat & Mach. Co. (Launches, Canoes, Boats, etc.), 3515 S 2d, St. Louis, Mo.
 American Darracq Automobile Co. (Motor Boats), 1989 B'way, New York
 American Gasoline Motor Co., Baldwinville, N. Y.
 Atlantic Co. (Power Boats, Dory Skiffs, Launches, etc.), Amesbury, Mass.
 Auto Boat Co., 1 Madison av, New York
 Barrett's, A. Son (Launches), Camden, Me.
 Benton & Son (Launches), La Crosse, Wis.
 Bridgeport Motor Co., Bridgeport, Conn.
 Brooklyn Launch Works (Gasoline Launches), Coney Island, Brooklyn, N. Y.
 Brooks Boat Mfg. Co., Bay City, Mich.
 Camden, Anchor-Rockland Machine Co., Rockland, Me.
 Canada Launch Works (Ltd.) (Auto Boats, Launches, etc.), Toronto, Can.
 Carleton Canoe Co. (Boats & Canoes), Old Town, Me.
 Chadakoin Boat Co., Jamestown, N. Y.
 Chase Yacht & Engine Co. (Auto Boats, Launches, etc.), Providence, R. I.
 Clapham, Thos. (Yachts), Roslyn (L. I.), N. Y.
 Cleveland Motor Boat Co., 1055 Detroit, Cleveland, O.
 Cooley Mfg. Co., Waterbury, Vt.
 Daimler Mfg. Co., Steinway av, Long Island City, N. Y.
 Decauville Automobile Co. (Motor Boats), 116 W 38th, New York
 De Mooy Bros, 765 Willson av, Cleveland, O.
 Derr, Ralph (Yachts, Launches, Tow Boats, Steel Barges, etc., For Export, a Specialty), Mariners' Harbor, S. I., N. Y.
 Detroit Boat Co. (Gasoline, Wooden Boats, Launches and Canoes), Detroit, Mich.
 Detroit River Boat & Oar Co. (Boats, Launches, Yachts, etc.), Wyandotte, Mich.
 Dingfelder Max (Auto Boats), 41 Washington av, Detroit, Mich.
 Du Brie Motor Co., 34 Bush, Detroit, Mich.
 Dutton Engineering Co., Perth Amboy, N. J.
 Edson Boat Co. (Auto Boats), Skaneateles, N. Y.
 Electric Launch Co. (Motor Boats, Launches & Yachts, Bayonne City, N. J.
 Emmons, E. Gerry, Corp'n, Swampscott, Mass.
 Eric Basin Boat Building Co. (Launches), Sullivan & Dwight, Brooklyn, N. Y.
 Fairbanks Grant Mfg. Co., Ithaca, N. Y.
 Fairfield Motor Co. (Auto Boats, Launches, etc.), Fairfield, Conn.
 Fay & Brown Engine Co., Geneva, N. Y.
 Forest City Boat Works, (Rockford, Ill.
 Francis, Henry E., Jr. (Star Brand Motor Boats), Alexandria Bay, N. Y.

Fraser Hollow Spar & Boat Co. (Canoes, Launches, etc.), Greenport, L. I.
 Gas Engine & Power Co. & Chas. L. Seabury Co., Cons. (Naphtha, Alco-Vapor & Gasoline Auto Boats & Launches & Steam & Sail Yachts), Morris Heights, N. Y.
 Globe Iron Works Co., Menominee, Wis.
 Godshalk, E. H. Co., Mamliton c N 23d, Phila., Pa.
 G. R. Gas Engine & Yacht Co. (Launches, Yachts, etc.), Grand Rapids, Mich.
 Hampton Roads Boat Building Co., Newport News, Va.
 Hansen, A. (Motor Boats & Launches), City Island, N. Y.
 Hasbrouck Motor Works, New London, Conn.
 Hepburn, J. W. (Launches, Boats, etc.), Toledo, O.
 Herreshoff Mfg. Co. (Yachts, etc.), Bristol, R. I.
 Higgins & Gifford Boat Building Co., Gloucester, Mass.
 Hoffman, W. Motor Works, 1253 N Haisted, Chicago, Ill.
 Hollander & Tangeman ("Fiat" Motor Boats), 3 W 45th, New York
 Horton, Boats (Inc.), Rochester, N. Y.
 Horton Mfg. Co., Painesville, O.
 Hubbard Motor Co., Middletown, Conn.
 Hunter-Weckler Boat Co. (Motor Boats, Launches, etc.), McHenry, Ill.
 Huntington Mfg. Co. (Yachts), New Rochelle, N. Y.
 International Power Vehicle Co. (Kerosene Oil, Boats & Launches), Stamford, Conn.
 Jacob, Robert (Yachts), City Island, N. Y.
 Johnson, Theo. A. Co. (Power Boats, Cabin Launches, etc.), Portland, Me.
 Jones & La Borde Launch Co., Oshkosh, Wis.
 Judkins Show Case Co., E Providence Centre, Keating Motor Co., Middletown, Conn. R. I.
 King Folding Canvas Boat Co., Kalamazoo, Mich.
 Kowalsky Engine Co., Verona, Pa.
 Lake Shore Engine Works (Motor Boats, Launches, etc.), Marquette, Mich.
 Lake Torpedo Boat Co. (Submarine Boats), Colorado bldg, Washington, D. C.
 Lamb Boat & Engine Co., Clinton, Iowa
 Lawley, Geo. & Son Corporation, South Boston, Mass.
 Leyare Boat Works, Ogdensburg, N. Y.
 Lozier Motor Co. (Motor Boats, Launches, etc.), 55th & B'way, New York
 McHardy-Randolph Steel Motor Boat Co., Detroit, Mich.
 Mack Bros. Motor Car Co. (Motor Boats), Allentown, Pa., & Brooklyn, N. Y.
 Madison Boat Co., Madison, Wis.
 Marine Iron Works (Yachts, Launches & Auto Boats), Tottenville (S. I.), N. Y.
 Mather, C. B. Corp'n (Boats, Launches, etc.), Rowley, Mass.
 Matinecock Launch & Power Co., Oyster Bay, L. I., N. Y.
 Matthews Boat Co., Port Carbon, Pa.
 Medart, Fred (Launches, Boats, etc.), Marine Station, St. Louis, Mo.
 Michigan Steel Boat Co. (Steel Launches, Row Boats, Canoes, etc.), 1250 Jefferson av, Detroit, Mich.
 Miller, Geo. H. & Co. (Yachts), Patchogue, N. Y.
 Milton Point Ship Yard (Boats, Yachts, etc.), Rye, N. Y.
 Minnesota Boat & Power Works, Stillwater, Minn.
 Moore Boat Works (Auto Boats, Launches, etc.), Wayzata, Minn.
 Mullins, W. H. Co. (Stamped Steel "Beaver Tail" Motor Boats, Salem, O.
 Murray & Tregurtha Co. (Yachts, Launches, etc.), 340 W 1st, So Boston, Mass.
 Neptune Launch & Mfg. Co. (Motor Boats & Launches), Evansville, Ind.
 Neumeister, F. P., Rockford, Ill.
 New York Kerosene Oil Engine Co., College Point, New York
 N. Y. Yacht, Launch & Engine Co., Morris Heights, N. Y.
 Nock, F. S. (Boats, etc.), East Greenwich, R. I.
 Osborn, W. R., Croton-on-Hudson, N. Y.
 Outing Boat Co. (Launches, Boats, etc.), Marquette bldg, Chicago, Ill.
 Palais De L'Automobile (Motor Boats & Launches), 500 5th av, New York
 Palmer Boat Co., Highland Park, Ill.
 Palmer Bros., Cos Cob, Conn.
 Panhard & Levassor (Motor Boats & Launches, etc.), 232 W 13th, New York
 Pearson Boat Construction Co., Torrey bldg, Duluth, Minn.
 Peo, Leon L. & Co. (Launches, etc.), Cape Vincent, N. Y.
 Perkins Launch & Motor Co. ("Ronomor" Launches), Gloucester, Mass.

Perth Amboy Boat Works (Motor Launches), Perth Amboy, N. J.
 Phila. Boat & Engine Co., 1017 N Front, Phila., Pa.
 Pierce Engine Co., Racine Junction, Wis.
 Pigeon Hollow Spar Co., 114 Condor, East Boston, Mass.
 Pope Mfg. & Coustruction Co., Fond du Lac, Wis.
 Portland Ship Building Co. (Motor Boats, Launches, Yachts), Portland, Me.
 Poyen, John S. (Motor Boats), Amesbury, Mass.
 Pouliot Boat & Power Co. (Inc.) (Motor Boats, Yachts, etc.), Sandusky, O.
 Pungs-Finch Co. (Motor Boats, Yachts, etc.), 1524 Jefferson av, Detroit, Mich.
 Pussey & Jones Co. (Yachts), Wilmington, Del.
 Racine Boat & Canoe Co., Muskegon, Mich.
 Raspberry Island Boat & Engine Works (Auto Boats), St. Paul, Minn.
 Ray Car Motor Boat & Machine Co., Inc., College Point, L. I., New York
 Reardon, M. F. (Designer & Builder of Boats, Yachts & Launches), Canarsie Shore, Brooklyn, N. Y.
 Rice, John V. Jr. & Co. (Auto Boats, Launches, etc.), Bordentown, N. J.
 Rigby, Geo. H. (Launches, Dories, etc.), Rockaway Pk. (L. I.), New York
 Rigsby, H. T. (Motor Boats), Canarsie, Brooklyn, N. Y.
 Ripley Hardware Co. (Galvanized Steel Launches), Grafton, Ill.
 Ruddock, W. F. Boat & Oar Works (Auto Boats, Launches, etc.), 12 W 141st, New York
 Rushton, J. H. (Boats, Canoes, etc.), Canton, N. Y.
 Schaeffer, W. E., Ripon, Wis.
 Seaman Motor & Launch Co. (Motor Boats), Branchport, N. J.
 Sheldon, O. Co., Neponset, Boston, Mass.
 Smith & Mabley (Inc.) (Auto Boats, etc.), 1765 B'way, New York
 Stamford Motor Co. (Inc.) (Launches, Motor Boats, etc.), Stamford, Conn.
 Standard Motor Construction Co. ("Standard" Motor Boats & Launches), Jersey City, N. J.
 Stearns & McKay (Launches, Yachts, etc.), Marblehead, Mass.
 St. Joseph Boat Mfg. Co., St. Joseph, Mich.
 Stone, Thos. Boat Building Co. (Launches, Dories, etc.), Swampscott, Mass.
 St. Paul Boat Co. (Motor Boats & Launches), St. Paul, Minn.
 Stuart, John & Co., Wollaston, Mass.
 Superior Launch Co., Kalamazoo, Mich.
 Susquehanna Marine Works Co. (Yachts, Boats, Launches, etc.), Havre de Grace, Md.
 Thoms, Oscar (Motor Boats, Launches, etc.), Weehawken, N. J.
 Thropp, Jno. E., Sons Co. (Yachts), ft Lewis, Trenton, N. J.
 Toppan Boat Mfg. Co. (Dories, Launches, etc.), 7 Hacerhill, Boston, Mass.
 Truscott Boat Mfg. Co. ("Truscott" Motor Boats, Launches, etc.), St. Joseph, Mich.
 Tuttle, D. M. & Co. (Launches), Canastota, N. Y.
 Weiler's, Hiram Sons, Trenton, N. J.
 Western Launch & Engine Works. (Steam Motor Boats, Launches, etc.), W 210th c Emerson, New York
 Williams-Whittelsy Co. (Motor Boats, Steam Yachts, etc.), ft Steinway av, Long Island City, N. Y.
 Wolverine Motor Works, 128 S Front, Grand Rapids, Mich.

Motor Cloth

De Ronde, Frank S. Co., 46 Cliff, N. Y., & 221 N 4th, Phila., Pa.
 Standard Paint Co. (Ruberoil), 100 William, N. Y.

***Motor Controllers**

CUTLER-HAMMER MFG. CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

Motor Cycles

(See also Bicycle Mfrs.)

American Motor Co. ("Marsh"), Brockton, Mass.
 Armac Motor Co. (Armac), 472 Carroll av, Chicago, Ill.
 Aurora Automatic Machinery Co., Aurora, Ill.
 Consolidated Mfg. Co. ("Yale-California"), Toledo, O.
 Crouch Motor Co., Stoncham, Mass.

Curtiss, G. H. Mfg. Co., Hammondsport, N. Y.
Fowler-Manson-Sherman Co., 45 Fulton, Chicago, Ill.
Geer, Harry R. Co., 1016 Pine St., St. Louis, Mo.
Great Western Mfg. Co., La Porte, Ind.
Harley-Davidson Motor Co., 317 37th, Milwaukee, Wis.

Hendee Mfg. Co. ("Indian"), 214 Worthington, Springfield, Mass.
Hoffman, W. Motor Works, 1253 N Halsted, Chicago, Ill.

Hornecker Motor Mfg. Co., Whiting, Ind.
Johnson Iver Arms & Cycle Co., 99 Chambers, New York

Light Mfg. & Foundry Co., Pottstown, Pa.
Mayo Damper Co. ("Mayo" Carburetor), Pottstown, Pa.

Merkel Motor Co., 1098 26th av, Milwaukee, Wis.

Miami Cycle & Motor Mfg. Co., Middletown, O.
Moore Cycle Co., Rome, Ga.
Motor Cycle Equipment & Supply Co. ("Erie"), Buffalo, N. Y.

Pope Mfg. Co. ("Columbia," "Tribune," & "Crawford"), Hartford, Conn.

Prospect Motor Mfg. Co., 7 Park Place, Brooklyn

Reading Standard Cycle Mfg. Co., Reading, Pa.
Reliance Motor Cycle Co. ("Reliance"), Addison, N. Y.

Success Auto Mfg. Co., 522 De Baliveare, St. Louis, Mo.

Thiem Mfg. Co., Columbia Heights, Minn.

Thomas Auto Bi. Co., 1543 Niagara, Buffalo, N. Y.

Wagner Motor Cycle Co., 227 St. Peter, St. Paul, Minn.

Widmaler, F. B., 2312 B'way New York.

Motor Lifts

(See Lifts)

Motor Starters

(See Rheostats.)

Motors (Air)

Clark, E. R., Hartford, Conn.
Dake Engine Co. ("Dake Reversible"), Grand Haven, Mich.

INGERSOLL - RAND CO., 11 B'way,
New York. (See adv. index & branch offices, end of book)

Roteng Engineering Corporation, 299 B'way, New York

Underwood, H. B. & Co., 1025 Hamilton, Phila., Pa.

Motors (Automobile)

(See Engines, Automobile; also Engines, Gas or Gasoline; also Engines, Marine, Gasoline; also Motors, Electric)

Motors (Battery)

Kendrick & Davis, Lebanon, N. H.
Ohio Electric Works, 76 Ellen, Cleveland, O.

Motors (Buffing)

Dilg Mfg. & Trading Co. ("Acme," for Polishing & Refinishing Silverware & other Metal Ware for Hotels, Clubs, etc.), 663 E 163d, New York

Holtzer-Cabot Electric Co. (Electric Alternating Grinding & Buffing), Brookline, Mass.
Northwestern Mfg. Co. ("Browning"), Milwaukee, Wis.

Motors (Dental)

Holtzer-Cabot Electric Co. (Electric), Brookline, Mass.

* Motors (Direct Current Railway)

WESTINGHOUSE ELECTRIC & MFG. Co., Pittsburgh, Pa. (See adv. index & branch offices, end of book)

Motors (Electric)

(See also Dynamo & Motor Mfrs.)

Akron Electrical Mfg. Co., Akron, O.

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. below; branch offices, end of book)

Barriett Electric Co. (1-4 to 15 h. p.), Cincinnati, O.

Bell Electric Motor Co. (Single Phase Alternating & Direct), 140 Prince, New York

Century Electric Co. ("Century," Single Phase), 404 N 4th, St. Louis, Mo.

Cushman Electric Co. ("Cushman"), Concord, N. H.

Eck Dinamo & Motor Works (Types 1-32 to 5 H. P.), Belleville, N. J.

Elwell-Parker Co. (Slow Speed), Cleveland, O.

Emerson Electric Mfg. Co., 2030 Wash'n av, St. Louis, Mo.

FAIRBANKS, MORSE & CO., Franklin & Monroe, Chicago, Ill. (See adv. index & branch offices, end of book)

Falcon Electric Mfg. Co., 432 E 71st, New York

Federal Electric Co. (For General Power Purposes), North Girard, Pa.

Fidelity Electric Co. (1-20 to 20 H. P.), Lancaster, Pa.

Garden City Fan Co., Fisher Bldg, Chicago, Ill.

GENERAL ELECTRIC CO., Schenectady, N. Y., & 44 Broad, N. Y. (See adv. index & branch offices, end of book)

Ideal Electric & Mfg. Co. (Ideal Standard), Mansfield, O.

Jantz & Leist Electric Co. (Enclosed Type, 1½ to 15 h. p.), 808 Elm, Cincinnati, O.

Lincoln Electric Co. (Small), Cleveland, O.

Mechanical Appliance Co. ("Watson," Multi-polar), Milwaukee, Wis.

Motor Mfg. Co., Enreka, Cal.

New England Motor Co., Lowell, Mass.

Northern Electrical Mfg. Co. (1-8 to 2 h-p.), Madison, Wis.

Northwestern Mfg. Co. ("Browning")

National Brake & Electric Co. ("Ceco"), Milwaukee, Wis.

Parsell & Weed ("Alvord"), 129 W 31st, New York

OTIS ELEVATOR CO., 17 Battery Pl., New York. (See adv. index and branch offices, end of book)

PHOENIX ELECTRIC COMPANY, (Direct & Alternating), Mansfield, O. (See adv. index, end of book)

Portland Co. (Slow Speed), Portland, Me.

Richmond Electric Co. (1 to 50 h-p., Direct Current), Richmond, Va.

SPRAGUE ELECTRIC CO. (Direct Current), 527 W 34th, New York. (See adv. index and branch offices, end of book)
Sterling Electric Motor Co. (Small Direct Current, up to 15 h-p.), Dayton, O.
Stow Mfg. Co. (Multi-Speed), Binghamton, N. Y.

Sturtevant, B. F. Co., Hyde Park, Mass.
Submerged Electric Motor Co., Menomonee, Wis.

United Pump & Power Co. ("Thompson"), Old Colony bldg, Chicago, Ill.

Wagner Electric Mfg. Co. ("Schuler," Single Phase Alternating, etc.), St. Louis, Mo.

Western Electric Co. (Direct & Alternating), 259 S Clinton, Chicago, Ill., & 57 Bethune, N. Y.

WESTINGHOUSE ELEC. & MFG. CO. (Direct Current), Pittsburgh, Pa. (See adv. index & branch offices, end of book)

Whittingham Mfg. Co., Baltimore, Md.

Wing, L. J. Mfg. Co., 136 Liberty, New York

Motors (Electric Crane)

Crocker-Wheeler Co., Ampere, N. J., & 39 Cortlandt, N. Y.

GENERAL ELECTRIC CO., Schenectady, N. Y., & 44 Broad, N. Y. City. (See adv. index & branch offices, end of book)

PHOENIX ELECTRIC COMPANY, Mansfield, O. (See adv. index, end of book)

SPRAGUE ELECTRIC CO., 527 W. 34th, New York. (See adv. index and branch offices, end of book)

Western Electric Co., 259 S. Clinton, Chicago, Ill., & 57 Bethune, N. Y.

WESTINGHOUSE ELEC. & MFG. CO., Pittsburgh, Pa. (See adv. index & branch offices, end of book)

Motors (Electric Elevator)

Crocker-Wheeler Co., Ampere, N. J., & 39 Cortlandt, N. Y.

Federal Electric Co., North Girard, Pa.

Ideal Electric & Mfg. Co. (Ideal Special), Mansfield, O.

Keystone Electric Co., Erie, Pa.

Lincoln Electric Co., Cleveland, O.

Northwestern Mfg. Co. ("Browning" Reversible), Milwaukee, Wis.

PHOENIX ELECTRIC COMPANY (Direct & Alternating), Mansfield, O. (See adv. index, end of book)

Portland Co., Portland, Me.

Triumph Electric & Ice Machine Co. ("Triumph"), 610 Baymiller, Cincinnati, O.

WARNER ELEVATOR MFG. CO., Spring Grove av, Alfred & Valley, Cincinnati, O., & 15 Park Row, New York. (See adv. index and branch offices, end of book)

Motors (Electric Fan)

Emerson Electric Mfg. Co. (Alternating Desk Bracket & Ceiling), 2030 Wash'n av, St. Louis, Mo., & 136 Liberty, New York

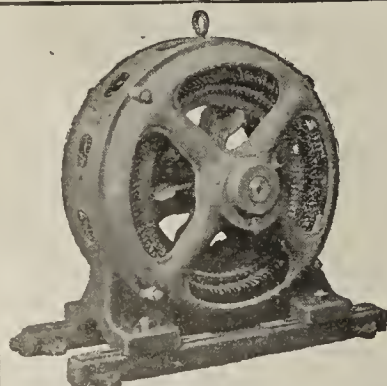
Falcon Electric Mfg. Co., 432 E 71st, New York

GENERAL ELECTRIC CO., Schenectady, N. Y., & 44 Broad, New York. (See adv. index & branch offices, end of book)

Goldmark & Wallace (Hurricane Direct Current), 83 Warren, New York

Menominee Electric Mfg. Co., Menominee, Mich.

Ohio Electric Works, 76 Ellen, Cleveland, O.



ALLIS-CHALMERS
INDUCTION MOTOR

ALLIS-CHALMERS CO.

ARE YOU IN THE MARKET FOR MOTORS?
WE CAN FURNISH WHATEVER YOU NEED

In Sizes from One H. P. up.
For either Direct or Alternating Current.
Our Motors invariably give Satisfaction.

BECAUSE they are Skillfully Designed, Strongly Built and Liberally Rated

LET US SHOW YOU THEIR MERITS

PHOENIX ELECTRIC COMPANY, Mansfield, O. (See adv. index, end of book)
Ravenna Lamp Works (Direct Current, Desk & Ceiling), Ravenna, O.
SPRAGUE ELECTRIC CO., 527 W. 34th, New York. (See adv. index and branch offices, end of book)
 Towle, Geo. C. Mfg. Co., Lancaster, Pa.
 Warren Electric & Specialty Co., Warren, O.
 Western Electric Co., 259 S Clinton, Chicago, Ill., & 57 Bethune, N. Y.
WESTINGHOUSE ELEC. & MFG. CO., Pittsburg, Pa. (See adv. index & branch offices, end of book)

Motors (Electric, for Flexible Shaft)

SPRAGUE ELECTRIC CO., 527 W. 34th, New York. (See adv. index & branch offices, end of book)
 Stow Flexible Shaft Co., 26th & Callowhill, Phila., Pa.

*Motors (Electric Mining)

GENERAL ELECTRIC CO., Schenectady, N. Y., & 44 Broad, New York. (See adv. index & branch offices, end of book)
WESTINGHOUSE ELEC. & MFG. CO., Pittsburg, Pa. (See adv. index & branch offices, end of book)

Motors (Electric Railway)

(See Generators, Street Railway.)

*Motors (Electric, Single Phase Railway)

WESTINGHOUSE ELECTRIC & MFG. CO., Pittsburg, Pa. (See adv. index & branch offices, end of book)

Motors (Electric Toy, Etc.)

Kendrick & Davis, Lehanon, N. H.

Motors for Automatic Pianos, Etc.

ORGAN POWER CO., Hartford, Conn. (See adv. index, end of book)

Motors (Gasoline)

(See Engines, Automobile; also Engines, Gas or Gasoline; also Engines, Marine, Gasoline)

Motors (Gasoline, Farm)

Ivel Agricultural Motor Co. ("Ivel"), Stock Exchange bldg., Chicago, Ill.
 Thomas Wagon Co., Vernon, N. Y.

*Motors (Gasoline Turntable)

FAIRBANKS, MORSE & CO., Franklin & Monroe, Chicago, Ill. (See adv. index & branch offices, end of book)

*Motors (Induction)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. on preceding page; branch offices, end of book)
GENERAL ELECTRIC CO. (Alternating Current), Schenectady, N. Y., & 44 Broad, New York. (See adv. index & branch offices, end of book)
 Richmond Electric Co. (1 to 50 h-p.), Richmond, Va.
WESTINGHOUSE ELEC. & MFG. CO., Pittsburg, Pa. (See adv. index & branch offices, end of book)

Motors (Naphtha)

Gas Engine & Power Co. & Chas. L. Seabury & Co. (2 & 4 Cycle), Morris Heights, N. Y.

Motors (Organ)

American Steam Pump Co. (Hydraulic), Battle Creek, Mich.
 Barker, H. R. Mfg. Co., Lowell, Mass.

Bishop & Babcock Co., Hamilton av., Cleveland, O.
 Kipp, A., Jr., Ossining, N. Y.
ORGAN POWER CO. ("Spencer," Water & Electric), Hartford, Conn. (See adv. index, end of book)
 Rhodes, L. E. ("Spencer"), Hartford, Conn.
 Roberts, Geo. J. Co., Dayton, O.
 Ross Valve Co., Troy, N. Y.
 Whitney, F. E. (The Boston), 65 Sudbury, Boston, Mass.

*Motors (Organ Blowing, Electric)

OTIS ELEVATOR CO., 17 Battery pl., New York. (See adv. index and branch offices, end of book)
PHOENIX ELECTRIC COMPANY, Mansfield, O. (See adv. index, end of book)
SPRAGUE ELECTRIC CO., 527 W. 34th, New York. (See adv. index and branch offices, end of book)

Motors (Pneumatic)

(See Pneumatic Motors.)

*Motors (Self-Starting, Variable Speed)

PHOENIX ELECTRIC CO., Mansfield, O. (See adv. index, end of book)

*Motors (Single Phase, Electric)

WESTINGHOUSE ELECTRIC & MFG. CO., Pittsburg, Pa. (See adv. index & branch offices, end of book)

Motors (Turntable)

Quincy-Manchester-Sargent Co., Old Colony bldg., Chicago, Ill., & 114 Liberty, New York

Motors (Valve)

Crane Co. (Est. 1855), 519 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)

Motors (Water)

Althouse-Wheeler Co. ("Waupun"), Waupun, Wis.
 American Water Motor Co. ("American" Automatic), Columbus, O.
AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)
 Backus Water Motor Co., 174 Penna av., Newark, N. J.
 Bates, D. L. & Bro. Co., Dayton, O.
 Bishop & Babcock Co., c Kirtland & Hamilton, Cleveland, O.
 Buckeye Motor Mfg. Co., Dayton, O.
 Carlisle & Finch Co., 229 E Clifton av., Cincinnati, O.
 Cassel Automatic Water Motor Co., Seattle, Wash.
 Chicago Water Motor & Fan Co., 22 S Canal, Chicago, Ill.
 Dayton Fan & Motor Co., Dayton, O.
 Dicke Tool Co. (For Washing Bottles), Downers Grove, Ill.
 Divine Water Motor Co. ("Divine"), Utica, N. Y.
 Erwin Hydraulic Machinery Co., 204 Grand av., Milwaukee, Wis.
 Excelsior Elec. & Mfg. Co., 404 Superior, Cleveland, O.
 G. & E. Electric & Construction Co. ("Climax"), Binghamton, N. Y.
 General Fire Extinguisher Co., Providence, R. I.
 Gilmore Electric Co. ("Little Giant"), 625 E 1st, Boston, Mass.
HUNTER FAN & MOTOR CO. ("Syra- cuse"), Fulton, N. Y. (See adv. index, end of book)
 Little, Thos. A., Wheeling, W. Va.
 Miller Specialty Co. (With Emery & Buffing Wheels), North Tonawanda, N. Y.
 Monarch Mfg. Co. ("Monarch"), Columbus, O.
ORGAN POWER CO. ("Spencer"), Hartford, Conn. (See adv. index, end of book)
 Pelton Water Wheel Co. (Also Direct Connected), 19th & Harrison, San Francisco, Cal., & 90 West, New York
 Power Specialty Co., 111 B'way, New York
 Rhodes, L. E., Hartford, Conn.

Roberts, Geo. J. Co., Dayton, O.
 Rosenberg, A. Co. ("Polar" "Artic"), Baltimore, Md.
 Russell, Jno. W. ("Hercules"), Springfield, Mass.
 Specialty Mfg. Co., Indianapolis, Ind.
 Smith, Ira B. (Little Hustler), Bristol, Conn.
 Vaile & Kimes ("V. & K."), Dayton, O.
 Whitney, F. E., 65 Sudbury, Boston, Mass.
 Warner Motor Co. ("Warner" & "Little Wonder," for House & General Use), Northampton, Mass.

Mouldings (Carved)

American Carving & Mfg. Co. (Carved, Rope & Beaded), 900 Granville av., Grand Rapids, Mich.
 Central Planing Mill & Lumber Co., 3d & Q, Louisville, Ky.
CHICAGO MILL WORK SUPPLY CO., cor. 22d & Sangamon, Chicago, Ill. (See adv. index, end of book)
 Dwight Lumber Co. (also Plain), Rouge river & M. C. R. R., Detroit, Mich.
 Foster-Munger Co. (for the trade only), W 20th & S Sangamon, Chicago, Ill.
 Gauger, Jno. A. & Co., W 22d & Laflin, Chicago
 Gould Mfg. Co. (for the trade only), Oshkosh, Wis.
 Grand Rapids Carved Moulding Co., Grand Rapids, Mich.
 Hake, Chas. W. Mfg. Co. (Rope, Spiral & Beaded), Grand Rapids, Mich.
 Hartmann, John, 13 N Jefferson, Chicago, Ill.
 Hinner's, E. H. Sons, Edgewater, N. J.
 Hyde-Murphy Co., Ridgway, Pa.
 Leslie, Jno., 138 W 15th, New York
 McMillen, R. Co. (For the Trade Only), Oshkosh, Wis.
 Michigan Toy & Novelty Co., Holland, Mich.
 Morgan Co. (For the Trade Only), Oshkosh, Wis., & W 22d & S Union, Chicago, Ill.
 New York Carved Moulding Co., Rider av & 139th, New York
 Ohio Scroll & Lumber Co., Covington, Ky.
 Palmer, Fuller & Co., 2244 Lumber, Chicago
 Parker, Edwin C., 519 W 30th, New York
 Peirce, W. E. & Co., Millford, N. H.
 Poppert, Geo. Mfg. Co., 419 Poplar, Milwaukee, Wis.
 Roberts, E. L. & Co. (For the Trade Only), W 22d & Union pl., Chicago
STEARNS, A. T. LUMBER CO., Neponset, Boston, Mass. (See adv. index, end of book)
 Vicker, G. P. Mfg. Co., 1109 W Main, Louisville, Ky.
 Waddell Mfg. Co., Grand Rapids, Mich.

Mouldings (Composition)

(See Ornaments, Composition.)

Mouldings (Copper, Brass & Bronze)

Ansonia Brass & Copper Co., Ansonia, Conn., & 99 John, New York
 Bridgeport Brass Co., Bridgeport, Conn., & 19 Murray, N. Y.
 Coe Brass Mfg. Co., Torrington, Conn.
 Cowles, C. & Co. (Inc.) (Brass Door), New Haven, Conn.
HENRY-BONNARD BRONZE CO., Sales Office, 5 & 7 E 42d, New York; Works, Mt. Vernon, N. Y. (See adv. index, end of book)
 Hungerford, U. T. Brass & Copper Co., 497 Pearl, New York
JONES, TREVOR F. & CO., 374 W Broadway, New York. (See adv. index, end of book)
 Manhattan Brass Co., 334 E 28th, New York
 Rome Brass & Copper Co., Rome, N. Y., & 100 William, New York

UNION EQUIPMENT AND BRONZE CO.

520 W 36th, N. Y. (See adv. outside stencil)
 Waterbury Brass Goods Corporation, Waterbury, Conn.

Mouldings (Cypress)

CYPRESS LUMBER CO., 88 Broad, Boston, Mass., & Apalachicola, Fla. (See adv. index, end of book)
 Cypress Selling Co. (Ltd.), New Orleans, La.

Mouldings (Electric Wiring)

American Circular Loom Co. ("Lutz" Metal), Chelsea, Mass.
 American Hardwood Mfg. Co., Grottoes, Va.
 Central Mfg. Co., Chattanooga, Tenn.
 Foley Mfg. Co., 427 22d, Chicago, Ill.
 Improved Moulding Mfg. Co. (Wire Grip), N 21st cor Lippincott, Phila., Pa.
 Johns, H. W.-Manville Co. ("Electrobeston", Fire Proof), 100 William, New York
 Johnson Bros., 45 Clason av, Brooklyn, N. Y.
 K. & B. Co., 38 S 6th, Phila., Pa.
 Kirkpatrick Mfg. Co. ("Simplex"), 3108 Germantown av, Phila., Pa.
 Mitchell Moulding Co., 91 S Green, Chicago, Ill.
 Noblett, E. J. Co., 121st & Peoria, Chicago, Ill.
 Planett Mfg. Co., La Porte, Ind.
 Robinson & Co., Bloomsburg, Pa.
 Saulpaugh's, J. M. Sons, 706 E 12th, New York
 Sheip, H. H. Mfg. Co., 529 Columbia av, Phila., Pa.
 Thornton & Co., 83 W 14th pl, Chicago, Ill.
 Wright, Craycroft & Harty Co., 526 W 21st, Chicago, Ill.

Mouldings (Electrical, Wood)

(See also Woodwork, Electrical.)

Bloomsburg Lumber & Mfg. Co., Bloomsburg, Pa.
 Central Mfg. Co., Chattanooga, Tenn.
 Johnson Bros., 45 Clason av, Brooklyn, N. Y.
 Noblett, E. J. Co., Peoria & 121st, Chicago, Ill.
 Saulpaugh's, J. M. Sons, 706 E 12th, N. Y.
 Sheip, H. H. Mfg. Co., 529 Columbia av, Philadelphia, Pa.
 Wright & Craycroft, 542 W 21st, Chicago, Ill.

Mouldings (Embossed)

Anderson & Lind, 181 Iowa, Chicago
 Bilek, Stephen Co., 306 S Clinton, Chicago
 Boynton & Co., 421 W 15th, Chicago, Ill.
 Chicago Embossed Moulding Co., 598 Austin av, Chicago, Ill.
CHICAGO MILL WORK SUPPLY CO., cor 22d & Sangamon, Chicago, Ill. (See adv. index, end of book)
 Diebold Lumber & Mfg. Co., 99 Wabash, Pittsburgh, Pa.
 Fitzgerald, Speer Co., Pen Argyl, Pa.
 Gebhardt, J. F., Calver & Newell, Brooklyn, N. Y.
 Hake, Chas. W. Mfg. Co., Grand Rapids, Mich.
 Hyde-Murphy Co., Ridgway, Pa.
 L'Hote Lumber Mfg. Co., n Liberty & Toulouse, New Orleans, La.
 Lidell, Wm. C., 597 Austin, Chicago, Ill.
 McClelland, T. W. Co., Davenport, Ia.
 Mertz's, Geo. Sons, Porchester, N. Y.
 Michigan Toy & Novelty Co., Holland, Mich.
 New York Carved Moulding Co., Rider av & 139th, New York
 Ohio Scroll & Lumber Co., Covington, Ky.
 Paine Lumber Co. (For the Trade Only), Oshkosh, Wis.
 Pierce, W. E. & Co., Milford, N. H.
 Rock Island Sash & Door Works, Rock Island, Ill.
 Stoehr, A. & Co., 305 Flndlay, Cincinnati, O.

Mouldings (German Silver)

(See Mouldings, Copper, Brass, etc.)

Mouldings (Picture)

Cass, B. T. & Co., 40 Union Park, Chicago, Ill.
 Harsha, L. R. Mfg. Co., Carroll av & Robey, Chicago, Ill.
 Larsen, C. & Co., Leavitt & Kinzie, Chicago, Ill.
 Lippe & Co., 328 E 26th, New York
 Lowe, Albert C., Inc., 8 S 10th, Phila., Pa.
 Pape Bros.' Moulding Co., Plum & Charles, Cincinnati, O.
 Raubold & Lambin, 19 N Ann, Chicago, Ill.
 Schock Mfg. Co., 1814 N E 6th, Minneapolis, Minn.
 Webber, J. R. Moulding Co., 21st & Cass av, St. Louis, Mo.

Mouldings (Rope & Twisted, Etc.)

American Carving & Mfg. Co. (Carved, Rope & Beaded), 900 Grandville av, Grand Rapids, Mich.
 Boynton & Co., 421 W 15th, Chicago, Ill.
CHICAGO MILL WORK SUPPLY CO., cor 22d & Sangamon, Chicago, Ill. (See adv. index, end of book)

Doty, G. W. Co. (Turned, Beaded), 107 W Monroe, Chicago
 Ehnborn Wood Turning & Mfg. Co., 19 N Jefferson, Chicago, Ill.
 Ellsworth Hardwood Co. (Also Ball), Ellsworth, Me.
 Essex Wood Turning Co., Essex, Conn.
 Foster-Munger Co. (For the Trade Only), W 20th & S Sangamon, Chicago, Ill.
 Grand Rapids Carved Moulding Co., Grand Rapids, Mich.
 Hake Mfg. Co., Grand Rapids, Mich.
 L'Hote Lumber Mfg. Co., N. Liberty & Toulouse, New Orleans, La.
 Lidell, Wm. C. (Embossed), 597 Austin av, Chicago
 Mertz's, Geo. Sons, Port Chester, N. Y.
 Michigan Toy & Novelty Co., Holland, Mich.
 Morgan Co. (For the Trade Only), Oshkosh, Wis., & W 22d & S Union, Chicago, Ill.
 New York Carved Moulding Co., Rider av & 139th, New York
 Ohio Scroll & Lumber Co., Covington, Ky.
 Pierce, W. E. & Co., Milford, N. H.
 Prendergast, J., 87 W Lake, Chicago, Ill.
 Roberts, E. L. & Co. (For the Trade Only), W 22d & Union pl, Chicago, Ill.
 Rome, Henry Mfg. Co. (Rope & Bead), Newaygo, Mich.
 Rutishauser, E., 67 N Sangamon, Chicago, Ill.
 Waddell Mfg. Co., Grand Rapids, Mich.

Mouldings (Sheet Metal)

Broschart & Braun, 607 W. 130th, New York
 Chicago Metal Covering Co., 69 N Green, Chicago, Ill.
DAHLSTROM METALLIC DOOR CO., Jamestown, N. Y., & 299 B'way, New York. (See adv. index, end of book)
EDWARDS MFG. CO., Eggleston av, bet. 4th & 5th, Cincinnati, O. (See adv. index & branch offices, end of book)
FRIEDLEY-VOSHARDT CO. (Inc.), 194 Mather, Chicago, Ill. (See adv. index, end of book)
 Gerock Bros. Mfg. Co., 1252 Manchester av, St. Louis, Mo.
 Kelley, Wm. J., 448 Adelphia, Brooklyn, N. Y.
 Miller & Doing, 83 Washington, Brooklyn, N. Y.
MILWAUKEE CORRUGATING CO., Milwaukee, Wis. (See adv. index, end of book)
MULLINS, W. H. CO., Salem, O. (See adv. index, end of book)

Mouldings (Spiral)

(See Mouldings, Rope & Twisted, Etc.)

Mouldings (Steel)

BRAUN, J. G. (for Store Fronts, Stairways, Elevator Enclosures, etc.), 322 S Paulina, Chicago, Ill., & 537 W 35th, New York. (See adv. index, end of book)
 Cowles, C. & Co. (Inc.), (for Doors), New Haven, Conn.

Moulds

(See also Molds, various kinds)

Moulds (Cylinder)

Federal Wire Cloth Co., Harrison, N. J.

Moulds (Ingot)

(See Molds, Ingot.)

Moulds (Rubber Tire)

(See Molds, Rubber Tire.)

Mountings (Automobile)

American Auto-Brass Co., Columbus, O.
 Atwood Mfg. Co. (Metal), Amesbury, Mass.
 Auto Brass & Aluminum Co., Flint, Mich.
 Auto Top & Specialty Co. (Rails), B'way & 63d, New York
 Columbus Brass Co. (Dash & Foot Rails), 43 N 4th, Columbus, O.
 Cowles, C. & Co., Water & Chestnut, New Haven, Conn.
DAHLSTROM METALLIC DOOR CO. (Light Sheet Steel Mouldings), Jamestown, N. Y. (See adv. index, end of book)
 English & Mersick Co., 70 Crown, New Haven, Conn.

Kinsey Mfg. Co. (Brass Moulding for Steps), Dayton, O.
 Murdock, Jas. (Metal), 116 Opera pl, Cincinnati, O.
 Murphy, G. W. J. Co. (Silver Mouldings), Merimac, Mass.
 Parry, A. N. & Co. (Brass Slats, etc.), Amesbury, Mass.
 Pittsburg Reduction Co., The, Park bldg, Pittsburgh, Pa.
 Rands Mfg. Co. (Brass & Nickeled Rails), 51-55 Macomb, Detroit, Mich.
 Ritter Mfg. Co. (Brass), Detroit, Mich.
 Smith, Jos. N. & Co. (Brass & Nickel Rails, Tonneau Door Handles & Hinges), 4th & Porter, Detroit, Mich.
 White Mfg. Co. (Mouldings), Bridgeport, Conn.
 Wing, Chas. Co., Amesbury, Mass.
 Woodruff, Walter W. & Sons Co., Mt. Carmel, Conn.

Mower & Reaper Sections

Akron Machine Co., Akron, O.
 Henry & Allen, Auburn, N. Y.
 Herschel, R. Mfg. Co., Peoria, Ill.
 Whitaker Mfg. Co., 50 S. Canal, Chicago, Ill.
WHITMAN & BARNES MFG. CO., Chicago, Ill. (See adv. index & branch offices, end of book)

Mowers & Reapers

(See also Agricultural Implement Mfrs.)

Acme Harvester Co. (Mowers), Peoria, Ill.
 Adriance, Platt & Co. (Geared or Chain Mowers & "Adriance" & "Triumph" Reapers), Poughkeepsie, N. Y.
 Akron Machine Co., Akron, O.
 Aultman, Miller, Buckeye Co., Akron, O.
 Aultman & Taylor Machinery Co., Mansfield, O.
 Bradley, David Mfg. Co., Bradley, Ill.
 Emerson Mfg. Co., Rockford, Ill.
 Eureka Mower Co., Utica, N. Y.
 Farquhar, A. B. Co. (Ltd.), York, Pa.
 Fuller & Johnson Mfg. Co., Madison, Wls.
 International Harvester Co. of America (Reapers Grain, Hemp, Mowers One & Two Horse), 7 Monroe, Chicago, Ill. Osborne Plant, Auburn, N. Y.
 Janesville Machine Co., Janesville, Wis.
 Johnston Harvester Co., Batavia, N. Y.
 Messinger Mfg. Co., Tatamy, Pa.
 Richardson Mfg. Co. (Mowers), Worcester, Mass.
 Rockford Mfg. Co. ("Ellwood," "Imperial"), Rockford, Ill.
 Seiberling & Miller, Doylestown, O.
 Sweet, Geo. Mfg. Co., Dansville, N. Y.
 Thomas Mfg. Co. (Mowers only), Springfield, O.
 Wayne Works, Richmond, Ind.
 Wood, W. A. Mowing & Reaping Machine Co., Hoosick Falls, N. Y.

*Mucilage (Drawing Board & Library)

SOLTMANN, E. G.

(Also everything for the Architect, Engineer & Draughting Room), 125 E 42d, New York. (See adv. index, end of book)

Mudguards (Automobile)

(See Fenders & Guards, Automobile)

*Muffle Furnace Fronts

BETHLEHEM FOUNDRY & MACHINE Co. (For Chemical Mfrs., etc.), South Bethlehem, Pa., & 149 B'way, New York. (See adv. index, end of book)

Mufflers (Automobile)

American Auto Brass Co., Columbus, O.
 Auto & Power Appliance Co., Arcade, Cleveland, O.
 Baldwin Chain & Mfg. Co., Worcester, Mass.
 Bates, F. E. & Co. ("Bates"), Northfield, Minn.
 Breunan Motor Co. ("Brennan"), Syracuse, N. Y.
 Briscoe Mfg. Co., 1427 Woodward av, Detroit, Mich.
 Byrne-Kingston & Co. ("Kingston"), Kokomo, Ind.
 Clemeck-Hirsch Co., 594 National av, Milwaukee, Wis.
 Columbus Screw & Machine Co., 244 Kaiser, Columbus, O.
 Crouch, Chas. P. & Co., 472 Carroll, Chicago, Ill.
 Duryea Power Co., Reading, Pa.
 Federal Auto Co., 1st Nat'l Bank Bldg., Chicago, Ill.

Kinsey Mfg. Co., Dayton, O.
Knobloch-Heldeman Mfg. Co., South Bend, Ind.
Fonda, Charles P. ("Davis"), 421 Market, San Francisco, Cal.

Garford Mfg. Co., Elyria, O.
Geel, Harry R. & Co. (Motor Cycles), 1017 Pine, St. Louis, Mo.
Globe Mach. & Stamping Co., 970 Hamilton, Cleveland, O.

Gray-Hawley Mfg. Co. ("Gray"), 605 W. Fort, Detroit, Mich.

Hatcher Auto-Parts Co. ("B.-H."), 32 Columbus, Cleveland, O.

Hayes Mfg. Co., 825 Maybury Grand av., Detroit, Mich.

Kells, W. J. Mfg. Co., 62 Van Winkle, Jersey City, N. J.

Kinsey Mfg. Co., Dayton, O.

Knobloch-Heldeman Mfg. Co., South Bend, Ind.
KOVEN, L. O. & BRO., 50 Cliff, New York. (See adv. index, end of book)

Le Nonpareil Muffler Co., 286 Taaffe pl., Brooklyn, N. Y.

Loomis Autocar Co., Westfield, Mass.

McClure-Buchner Co., 911 S Homan av., Chicago, Ill.

Mayo Damper Co., Pottstown, Pa.

Milwaukee Auto Engine & Supply Co., 708 Winnebago, Milwaukee, Wis.

Milwaukee Motor Co., 615 Clybourn, Milwaukee, Wis.

Motor Car Power Equipment Co., 577 Grove, Milwaukee, Wis.

Motor Mfg. Works Co., Ithaca, N. Y.

Murray, W. B., 1253 Milwaukee av., Chicago, Ill.

Neustadt Automobile & Supply Co., 826 S 18th, St. Louis, Mo.

Northway Motor & Mfg. Co., Maybury Grand av & R. R., Detroit, Mich.

Ohio Blower Co., 43 Michigan, Cleveland, Ohio

Powell Muffler & Turner Co., Utica, N. Y.

Relay Motor Car Co. ("Wyoma"), Reading, Pa.

Ross & Kramer, 5607 S Halsted, Chicago, Ill.

Runyen, Jas. & Son, Redkey, Ind.

Smith, D. B. & Co. ("Yankee"), Utica, N. Y.

Snow, B. W., 132 Bissell, Syracuse, N. Y.

Sun Stove Co., 1305 Bellevue av., Detroit, Mich.

Turner Brass Works, 65 Michigan, Chicago, Ill.

Uncas Specialty Co., Norwich, Conn.

Warren Mfg. Co., Warren, Mass.

Weeber, C. T. Mfg. Co., 170 Central av., Albany, N. Y.

Weiss, Louis T., 286 Graham, Brooklyn, N. Y.

Westernfield Motor Co., Anderson, Ind.

Western Motor Co., Logansport, Ind.

Williamson, Thomas G., 8 S 39th, Philadelphia, Pa.

*Mufflers (Pop Valve)

LUNKENHEIMER CO., General Office & Works. Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

Muffles (Enameling)

Brooklyn Fire Brick Wks., Brooklyn, N. Y.

Multigraph Ribbons

American Multigraph Co., Case av & Kelley, Cleveland Ohio

*Multi Stage, High Lift Centrifugals

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

Muzzles (Horse & Ox)

Wire Goods Co. (Japanned Wire, etc.), Worcester, Mass.

Nail Mill Machinery

(See Machinery, Nail Mill.)

Nail Sets

Braunsdorf-Mueller Co., Elizabeth, N. J.
Browne & Dowd Mfg. Co. (Knurled Cup Point), Meriden, Conn. (See adv. index, end of book)

Buck Bros. (Square & Round Points), Millbury, Mass.

Burkinshaw's, A. Sons, Peperell, Mass.

Deuse, J. S., Chester, Conn.

Ducharmes & Co., Shelburne Falls, Mass.

Goodell-Pratt Co., Greenfield, Mass.

Johnson, Wm. (Hedenberg Works) (Plain, Knurled Cup Points), Newark, N. J.

Keystone Mfg. Co. ("Keystone"), 41 Chandler, Buffalo, N. Y.

Kraeuter & Co., Newark, N. J.

Mayhew, H. H. Co., Shelburne Falls, Mass.

Peck, Stow & Wilcox Co., Southington, Conn.

Sawyer Tool Mfg. Co., Fitchburg, Mass.

Snell Mfg. Co., Fiskdale, Mass.

Springfield Machine Screw Co. ("Diamond"), Chicopee, Mass.

Starrett, L. S. Co., Athol, Mass.

Stortz, John & Son, 210 Vine, Phila., Pa.

Syracuse Twist Drill Co., Syracuse, N. Y.

Tuck Mfg. Co. (Plain, Corrugated, Knurled & Channel), Brockton, Mass.

Vaughn & Bushnell Mfg. Co. ("V. & B."), 875 W Carroll av., Chicago, Ill.

Nails (Barbed)

Corbin Screw Corporation (Steel Wire), New Britain, Conn.

Norton Iron Works (Common & Car), Ashland, Ky.

Wire Goods Co., Worcester, Mass.

Nails (Barrel)

AMERICAN STEEL & WIRE CO., Rookery, Chicago, Ill. (See adv. index & branch offices, end of book)

Corbin Screw Corporation (Steel Wire), New Britain, Conn.

Kokomo Steel & Wire Co., Kokomo, Ind.

La Belle Iron Works, Steubenville, O.

Norton Iron Works, Ashland, Ky.

Phillips, Townsend & Co., N 4th & Glenwood av., Phila., Pa.

Stanley, Geo. W. Co., Belleville, Ill.

Van Alen & Co. (Cut), Northumberland, Pa.

Wire Goods Co., Worcester, Mass.

Nails (Box)

AMERICAN STEEL & WIRE CO., Rookery, Chicago, Ill. (See adv. index & branch offices, end of book)

Corbin Screw Corporation (Steel Wire), New Britain, Conn.

Kokomo Steel & Wire Co., Kokomo, Ind.

La Belle Iron Works, Steubenville, O.

LYON METALLIC MFG. CO., Aurora, Ill. (See adv. index, end of book)

Norton Iron Works, Ashland, Ky.

Phillips, Townsend & Co., N 4th & Glenwood av., Phila., Pa.

Sharon Steel Co., Sharon, Pa.

Taunton Wire Nail Co. (Blind, Rugby, etc.), Taunton, Mass.

Van Alen & Co. (Cut), Northumberland, Pa.

Wire Goods Co., Worcester, Mass.

Nails (Brass & Copper)

AMERICAN STEEL & WIRE CO., Rookery, Chicago, Ill. (See adv. index & branch offices, end of book)

Berbecker & Rowland Mfg. Co., Waterville, Conn.

Grand Crossing Tack Co., S Chicago av & 79th, Chicago, Ill.

Hassall, Jno. (Boat, Slating, etc.), 171 Lafayette, New York

HUNGERFORD, U. T. BRASS & COPPER CO., 497 Pearl, New York

Hussey, C. G. & Co. (Copper Only), 2850 2d av., Pittsburg, Pa.

International Brass & Electric Co. (Hexagon Machine Made), 76 Beekman, N. Y.

Milwaukee Tack Co., Milwaukee, Wis.

Phillips, B. & Sons, South Hanover, Mass.

Rome Brass & Copper Co., Rome, N. Y., & 100 William, New York

Salem Nail Co. (Copper), 279 Pearl, New York

Taunton-New Bedford Copper Co. (Copper, Yellow Metal Only), New Bedford & Taunton, Mass.

Nails (Carpet)

Corbin Screw Corporation (Steel Wire), New Britain, Conn.

Nails (Casing)

AMERICAN STEEL & WIRE CO., Rookery, Chicago, Ill. (See adv. index & branch offices, end of book)

La Belle Iron Works, Steubenville, O.

Pearson, J. C. Co., Old South bldg. Boston, Mass.

La Belle Iron Works, Steubenville, O.

La Belle Iron Works, Steubenville, O.

La Belle Iron Works, Steubenville, O.

La Belle Iron Works, Steubenville, O.

La Belle Iron Works, Steubenville, O.

La Belle Iron Works, Steubenville, O.

Nails (Cigar Box)

GRAMMES, L. F. & SON, Allentown, Pa. (See adv. index, end of book)
Hassall, Jno., 171 Lafayette, New York

Nails (Clinch)

La Belle Iron Works, Steubenville, O.

Nails (Clout)

Cleveland Tack Works, Hamilton av & E 49th, Cleveland, O.

Diamond Tack & Nail Wks., Raynham, Mass.

La Belle Iron Works, Steubenville, O.

Norton Iron Works, Ashland, Ky.

Phillips, B. & Sons, South Hanover, Mass.

Stanley, Geo. W. Co., Belleville, Ill.

Superior Tack & Nail Co., Pen Yan, N. Y.

Tower Mfg. Co., Commerce & Elm, Cincinnati, O.; & Madison, Ind.

Van Alen & Co. (Cut), Northumberland, Ind.

Nails (Clutch)

CARY MFG. CO. (Cary's Patent

Twisted), 19 Roosevelt, New York. (See adv. index, end of book)

De Haven Mfg. Co., 50 Columbia Heights, Brooklyn, N. Y.

Eureka Metal Box Strap & Mfg. Co., Rochelle, Ill.

Indianapolis Staple & Tack Co., Indianapolis, Ind.

Phillips, Townsend & Co., N 4th & Glenwood av., Phila., Pa.

Nails (Corrugated)

Corrugated Steel Nail Co. (Steel), Springfield, O.

Phillips, B. & Sons (Brass & Iron), South Hanover, Mass.

Nails (Cut)

Bailey, Chas. L. & Co. (Inc.) (104 Machines), Harrisburg, Pa.

Belfout Iron Works Co. (126 Machines), Iron- ton, O.

Duncanuon Iron Co. (50 Machines), Duncannon, Pa.; & 122 Race, Phila., Pa.

Godcharles, F. A. Co. 89 Machines), Milton, Pa.

Hartman, Hay & Reis (62 Machines), Belleville, Ill.

Holldaysburg Iron & Nail Co. (23 Machines), Holldaysburg, Pa.

Judson Mfg. Co., Howard c Beale, San Francisco, Cal.

Kelly Nail & Iron Co. (120 Machines), Iron- ton, O.

La Belle Iron Works (173 Machines), Steuben- ville, O.

Lessig, Geo. B. Co. (106 Machines), Pottstown, Pa.

Norton Iron Works (Inc.) (140 Machines), Ash- land, Ky., & Kanawha, W. Va.

Old Dominion Iron & Nail Works Co. (Iron), (139 Machines), Richmond, Va.

Pickering, R. S., Sharon Hill, Pa.

Plymouth Mills, Plymouth, Mass.

Republic Iron & Steel Co., Frick bldg Annex, Pittsburg, Pa.

Salem Nail Co. (Galvanized, Tinned, Copper, Steel, etc.), 279 Pearl, New York

Tremont Nail Co. (150 Machines), West Ware- ham, Mass., & 76 Pearl, Boston, Mass.

Van Alen & Co. (Iron & Steel), Northumber- land, Pa.

Wheeling Steel & Iron Co., Wheeling, W. Va.

Williamsport Iron & Nail Co. (93 Machines), Williamsport, Pa.

Nails (Finishing)

AMERICAN STEEL & WIRE CO., Rookery, Chicago, Ill. (See adv. index & branch offices, end of book)

Corbin Screw Corporation (Smooth Steel Wire), New Britain, Conn.

Kokoma Steel & Wire Co., Kokomo, Ind.

La Belle Iron Works, Steubenville O.

Norton Iron Works, Ashland, Ky.

Phillips, Townsend & Co., N 4th & Glenwood av., Phila., Pa.

Tower Mfg. Co., Commerce & Elm, Cincinnati, Pa.

Van Alen & Co. (Cut), Northumberland, Pa.

Wheeling Steel & Iron Co., Wheeling, W. Va.

Wire Goods Co., Worcester, Mass.

Nails (Foundry)

La Belle Iron Works (Large Head), Steuben- ville, O.

Nails (Galvanized)

Keystone Nail Co. ("Cut & Wire"), 1618 Wash'n ave. Phila., Pa.
Malleable Iron Fittings Co. (Iron & Steel, Cut, Wire & Boat Nails, etc.), Branford, Conn.
United Galvanizing Co. (Inc.), 525 N Front, Phila., Pa.

Nails (Gilt)

Ossawan Mills Co., Norwich, Conn.

Nails (Hand Picked)

Hassal, John (For Machine Driving), 171 Lafayette, New York

Nails (Hoop)

Cleveland Tack Works, Hamilton av & E 49th, Cleveland, O.
La Belle Iron Works, Steubenville O.
Norton Iron Works, Ashland, Ky.
Tower Mfg. Co., Commerce & Elm, Cincinnati, O., & Madison, Ind.
Wheeling Steel & Iron Co., Wheeling, W. Va.

Nails (Horse)

Ausable Horse Nail Co., Keesville, N. Y.
Capewell Horse Nail Co., Hartford, Conn.
Coleman Nail Co., Pawtucket, R. I.
Cutter Nail Co., Ashland, Mass.
Essex Horse Nail Co., Ltd., Essex, N. Y.
Fowler Nail Co., Seymour, Conn.
Kankakee Nail Co., Kankakee, Ill.
Livingston Nail Co., 104 Reade, New York
Mooney, W. M. & Co., Au Sable Chasm, N. Y.
Putnam Nail Co., Neponset, Boston, Mass.
Standard Horse Nail Co., New Brighton, Pa.
Union Horse Nail Co., 583 W 22d, Chicago, Ill.

Nails (Papier Mache)

Atlas Tack Co., Fairhaven, Mass.

Nails (Picture)

Ossawan Mills Co., Norwich, Conn.
Turner & Seymour Mfg. Co., Torrington, Conn.

Nails (Roofing & Slating)

Anchor Nail & Tack Works, S 19th & S Water, Pittsburg, Pa.
Atlas Tack Co., Fairhaven, Mass.
Cleveland Tack Works (Slating), Hamilton av & E 49th, Cleveland, O.
Corbin Screw Corporation (Steel Wire; also Barbed), New Britain, Conn.

Crescent Machine Co. (Roofing), 1152 Trumbull av, Detroit, Mich.
Grand Crossing Tack Co., S Chicago av & 70th Grand Crossing, Ill.
Hassall, Jno. (Slating), 171 Lafayette, New York
HUNGERFORD, U. T. BRASS & COPPER CO. (Copper & Yellow Metal), 497 Pearl, New York

Independent Steel & Wire Co., Pittsburg, Pa.
Kokomo Steel & Wire Co., Kokomo, Ind.
La Belle Iron Works, Steubenville, O.
Miller's, H. J. Sons Co., Weatherproof Shingle, Bridgewater, Mass.
MILWAUKEE CORRUGATING CO., Milwaukee, Wis. (See adv. index, end of book)

Milwaukee Tack Co., Milwaukee, Wis.
Norton Iron Works, Ashland, Ky.
Old Dominion Iron & Nail Works Co., Richmond, Va.
Phillips, E. & Sons, So. Hanover, Mass.
Phillips, Townsend & Co., N 4th & Glenwood av, Phila., Pa.
Salem Nail Co. (Copper, Galvanized, Tinned, Yellow Metal, Zinc & Lead), 279 Pearl, N. Y.
Taunton & New Bedford Copper Co., New Bedford & Taunton, Mass.
Tower Mfg. Co., Commerce & Elm, Cincinnati, O., & Madison, Ind.
Van Alen & Co., Northumberland, Pa.
Wheeling Steel & Iron Co., Wheeling, W. Va.
Wire Goods Co. (Barbed Roofing), Worcester, Mass.

Nails (Saddle & Lining)

Atlas Tack Co., Fairhaven, Mass.
Phillips, Townsend & Co., N 4th & Glenwood av, Phila., Pa.

Nails (Screw Head)

Sassall, Jno., 171 Lafayette, New York
Roehling's, Jno. A. Sons Co., Trenton, N. J.

Nails (Shingle)

Corbin Screw Corporation, New Britain, Conn.
La Belle Iron Works, Steubenville, O.
Millers', H. J. Sons (Genuine Iron), Bridge-water, Mass.

Nails (Shoe)

Anchor Nail & Tack Works, S 19th & S Water, Pittsburg, Pa.
Cleveland Tack Works, Hamilton av & E 49th, Cleveland, O.
Cross, W. W. & Co. (Inc.), Brockton, Mass.
Diamond Tack & Nail Wks., Raynham, Mass.
Globe Mfg. Co., Taunton, Mass.
Grand Crossing Tack Co., S Chicago av & 79th, Chicago, Ill.
Judson Mfg. Co., San Francisco, Cal.

Millers', H. J. Sons (Shoe & Machine Shoe), Bridgewater, Conn.
Phillips, E. & Sons (Also Machine, Shoe, Brass & Copper Shoe), S Hanover, Mass.
River Co. (Brass), Waterbury, Conn.
Tower Mfg. Co., Commerce & Elm, Cincinnati, O., & Madison, Ind.

Nails (Small)

(See also Tack Mfrs.)

AMERICAN STEEL & WIRE CO., Rookery, Chicago, Ill. (See adv. index & branch offices, end of book)
Anchor Nail & Tack Works, S 19th & S Water, Pittsburg, Pa.

Atlas Tack Co., Fairhaven, Mass.
Cleveland Tack Works, Hamilton av & E 49th, Cleveland, O.
Cobb & Drew, Plymouth, Mass., & Rock Falls, Ill.
Corbin Screw Corporation, New Britain, Conn.
Fuller, G. E. & A. I., Keene, N. H.
Hartman, Hays & Reis, Belleville, Ill.
Hassall, John, 171 Lafayette, New York
Holland Mfg. Co., Baltimore, Md.
Kirk-Latty Mfg. Co. (Clout, Truck, etc.), Cleveland, O.
Kokomo Steel & Wire Co. (Wire), Kokomo, Ind.
Phillips, E. Sons (Iron, Steel, Copper, Brass & Zinc), S Hanover, Mass.
Rhodes, M. M. & Sons Co. (Upholstery), Taunton, Mass.

Salem Nail Co., 279 Pearl, New York
Shelton Co., Shelton, Conn.
Stanley, Geo. W. Co., Belleville, Ill.
Superior Tack & Nail Co. (Cut), Pen Yan, N. Y.
Taunton Wire Nail Co., Taunton, Mass.
Torrington Mfg. Co. (Furniture), Torrington, Conn.
Tower Mfg. Co. (Basket Hoop, etc.), Commerce & Elm, Cincinnati, O., & Madison, Ind.
Wheeling Steel & Iron Co., Wheeling, W. Va.
York Tack & Nail Works (Cut), York, Pa.

Nails (Special)

La Belle Iron Works, Steubenville, O.
Wheeling Steel & Iron Co., Wheeling, W. Va.

Nails (Stay)

Brewer Bros. (Wrought), 614 Filbert, Phila., Pa.

Nails (Tobacco)

Corbin Screw Corporation, New Britain, Conn.
Norton Iron Works, Ashland, Ky.

Nails (Trunk)

Cleveland Tack Works, Hamilton & E. 49th.
Diamond Tack & Nail Works, Raynham, Mass.
Superior Tack & Nail Co., Pen Yan, N. Y.
Tower Mfg. Co., Commerce & Elm, Cincinnati,

NAME PLATES FOR ALL PURPOSES

AUTOMOBILES & MACHINERY
BICYCLES & PATENTED ARTICLES & Etc.

SEND FOR CATALOG

THE CHANDLER CO., INCORPORATED
SPRINGFIELD, MASSACHUSETTS

ELECTRO-CHEMICAL ENGRAVING COMPANY, Inc.

ESTABLISHED 1900

Makers of Etched Metal Name Plates

450-58 Nineteenth Street

BROOKLYN, N. Y.

Nails (Upholsterers')

(See Tacks, Upholsterers')

Nails (Wire)

AMERICAN STEEL & WIRE CO
("Standard" Miscellaneous), The Rookery,
Chicago, Ill. (See adv. index & branch
offices, end of book)

Atlas Tack Co. (And Wire Tacks), Fairhaven,
Mass.

Cedarburg Wire & Wire Nail Co. (Sizes $\frac{1}{4}$ to 4
in.), Cedarburg, Wis.

Colorado Fuel & Iron Co., Denver, Colo.

Corbin Screw Corporation (Steel), New Britain,
Conn.

Crawfordsville Wire & Nail Co. (All Sizes),
Crawfordsville, Ind.

Dillon-Griswold Wire Co. (All Sizes), Ster-
ling, Ill.

Globe Mfg. Co., Taunton, Mass.

Grand Crossing Tack Co. (All Sizes), 79th &
S Chicago av, Chicago, Ill.

Griswold Wire Co., Braddock, Pa.

Gurney, D. B. (Sizes up to 20 Penny; 333
Machines), Whitman, Mass.

Hartman, Hays & Reis, Belleville, Ill.

Hassall, John, 171 Lafayette, New York

Igoe Iron & Steel Co. (3-8 to 6-inch), 226 N.
9th, Brooklyn, N. Y.

Illinois Nail Co., 3 Dlx, Chicago, Ill.

Independent Steel & Wire Co., Pittsburg, Pa.

Indiana Steel Wire Co., Muncie, Ind.

Janesville Barb Wire Co. (2 to 60 Penny),
Janesville, Wis.

Judson Mfg. Co., c Howard & Beale, San
Francisco, Cal.

Kokomo Steel & Wire Nail Co., Kokomo, Ind.

Lawrence Bros., Sterling, Ill.

Milwaukee Tack Co. (Small only), Milwaukee,
Wis.

Morgan Spring Co., Worcester, Mass.

National Wire Corporation (All Sizes), General
Offices, 114 Liberty, New York

Norton Iron Works (50 Machines), Ashland,
Ky., & Kanawka, W. Va.

Page Woven Wire Fence Co., Odrian, Mich.

Parker Wire Goods Co., Worcester, Mass.

Phillips, Townsend & Co. (All Sizes), N 4th
& Glenwood av, Phila., Pa.

Pittsburg Steel Co., Frick bldg, Pittsburg, Pa.

Plymouth Mills (Small), Plymouth, Mass.

Roebbling's, John A. Sons Co. (All Sizes), Tren-
ton, N. J.

Salem Nail Co. (All Sizes and Kinds), 279
Pearl, New York

Seneca Wire & Mfg. Co. (Roofing), Fostoria, O.

Southern Steel Co., Birmingham, Ala.

Spencer Wire Co., Worcester, Mass.

Stanley, Geo. W. Co. (Small Wire & Cut),
Belleville, Ill.

Superior Tack & Nail Co., Pen Yan, N. Y.

Taunton Wire Nail Co. (Sizes $\frac{1}{8}$ to 8-inch;
30 Machines), Taunton, Mass.

Titchener, E. H. & Co. (Up to 3-inch), Blyng-
hamton, N. Y.

Tower Mfg. Co., Commerce & Elm, Cincinnati,
O., & Madison, Ind.

Wire Goods Co. (All Sizes & Kinds; 100 Ma-
chines), Worcester, Mass.

Wickwire Bed Co., Cortland, N. Y.

Gem City Plating Works (Carriages, etc.), Day-
ton, O.

Imperial Enamel Co., 100 William, New York

Jopson, Geo. W. (German Silver, for Carriage,
Trunk, etc.), Meriden, Conn.

Kokomo Fence Machine Co. (Nickel & Alumi-
num), Kokomo, Ind.

Murdock-Shaw Co., Boston, Mass.

Ness, Geo. M., Jr., 61 Fulton, New York

New York Stencil Works, 100 Nassau, New
York

Norwalk Lock Co., South Norwalk, Conn.

Reading Hardware Co., Reading, Pa.

Robbins, John Mfg. Co., 58 Kneeland, Boston,
Mass.

Russell & Erwin Mfg. Co., New Britain, Conn.,
& 43 Chambers, New York

Sackman, Walter L., Akron, O.

SALO ART METAL CO., 462 E 136th,
New York. (See adv. below)

Schwerdtle Stamp Co., Bridgeport, Conn.

SMITH, F. P. WIRE & IRON WORKS,
100 Lake, Chicago, Ill. (See adv. index, end
of book)

Smith, Jos. N. & Co., Detroit, Mich.

Torrey Roller Bushing Works, Bath, Me.

Turner Brass Works, 66 Michigan, Chicago, Ill.

Union Porcelain Works, 300 Eckford, Brooklyn,
N. Y. (Sign & Number Plates, Porcelain)

Western Brass Mfg. Works (In Different Names),
21st & Rockwell, Chicago, Ill.

Wolverine Brass Works, Grand Rapids, Mich.

Woodman, R. Mfg. & Supply Co., 63 Oliver,
Boston, Mass.

Name Plates

American Railway Supply Co., 24 Park pl.,
New York

Becker, August Engraving Co. (Cast), 247 Atlan-
tic av, Boston, Mass.

Bridgeport Deoxidized Bronze & Metal Co.,
Bridgeport, Conn.

CHANDLER CO., Springfield, Mass.
(See adv. on preceding page)

Corbin Cabinet Lock Co. (Wrought, Brass, etc.),
New Britain, Conn.

Crowe Name Plate & Engraving Co., 71 W Jack-
son boul, Chicago, Ill.

Dayton Stencil Works (Carriages, etc.), Dayton,
O.

Eastwood Wire Mfg. Co. (Bronze Finish), Belle-
ville, N. J.

ELECTRO CHEMICAL ENGRAVING
Co. (Inc.), 450 19th, Brooklyn, N. Y. (See
adv. on preceding page)

G. & P. Engraving Co., 185 Franklin, Boston,
Mass.

ENAMELED STEEL SIGN CO., 12
State, Chicago, Ill. (See adv. index, end of
book)

*Name Plates (Automobile)

Abbott, W. H., 1263 B'way, New York

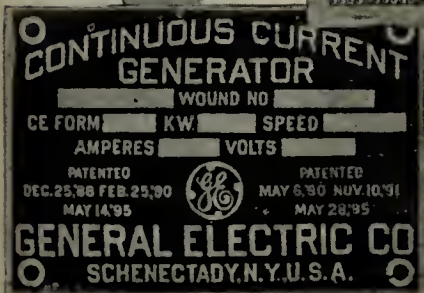
CHANDLER CO., Springfield, Mass.
(See adv. on preceding page)

ELECTRO CHEMICAL ENGRAVING
Co. (Inc), 450 19th, Brooklyn, N. Y. (See
adv. at bottom of preceding page)

SALO ART METAL CO., 462 E. 136th
New York. (See adv. below)

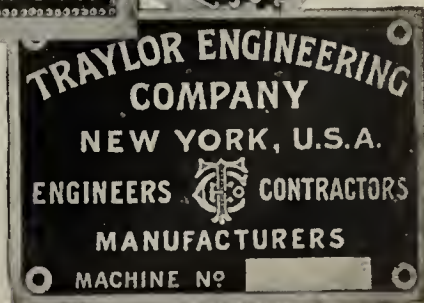
Name Plates (Cement Sidewalk)

Kramer Bros. Foundry Co., Dayton, Ohio



Salo Art Metal Company

Designers and Manufacturers of
LAMPS, SHADES, GAS AND ELECTRIC PORTABLES, ETCHED AND
RAISED METAL SIGNS, NAME PLATES, CLOCK AND SUN
DIALS, METAL ADVERTISING NOVELTIES.
19-31 COLLIER STREET BINGHAMTON, N. Y.



Name Plates (Machinery)

(See also Name Plates.)

American Name Plate Co., 352 Atlantic av., Boston, Mass.
 Becker, August Engraving Co. (Cast), 247 Atlantic av., Boston, Mass.
 Boyd, Geo. A. Co., 552 W B'way, New York
CHANDLER CO., Springfield, Mass.
 (See adv. index, end of book)
 Crowe Name Plate & Engraving Co. (Also Carriage), 71 W. Jackson boul., Chicago, Ill.
ELECTRO CHEMICAL ENGRAVING Co. (Inc), 450 19th, Brooklyn, N. Y. (See adv. index, end of book)
 Everett, A. & Son, Auburn, N. Y.
 G. & P. Engraving Co., 185 Franklin, Boston, Mass.
 Haeusermanu Metal Mfg. Co., 242 E. 122d, New York
 Sackman, Walter L., Akron, O.
SALO ART METAL MFG. CO., 462 E. 136th, New York. (See adv. on preceding page)
 Schwerdtle Stamp Co., 35 Fairfield av., Bridgeport, Conn.
 Torrey Roller Bushing Works (Cast), Bath, Me.
 Turner Brass Works, 66 Michigan, Chicago, Ill.

*Name Plates (Telephone)

ELECTRO CHEMICAL ENGRAVING Co. (Inc), 450 19th, Brooklyn, N. Y. (See adv. index, end of book)
SALO ART METAL MFG. CO., 462 E. 136th, New York. (See adv. index, end of book)

Naphtha Gas

Sun Oil Co., Toledo, O.

Naphtha Refiners

Barrett Mfg. Co. (Napathaline), Land Title bldg., Phila., Pa.
 Day Chemical Co. (Wood Naphtha), Westline, Indian Refining Co., Georgetown, Ky., Pa.
 Merchants Refining Co., Buffalo, N. Y.
 Miller, A. D. Sons Co., Allegheny, Pa.
 Paragon Refining Co., Toledo, O.
 Snnlight Oil & Gasoline Co., 217 Arch, Philadelphia, Pa.
 Titusville Oil Works, Titusville, Pa.
 Union Petroleum Co., 138 S 2d, Phila., Pa.
 Waverly Oil Works, 54th & A. V. R'y, Pittsburgh, Pa.

Neck Yoke Bands

Wrought Washer Mfg. Co. (Steel), Milwaukee, Wis.

Neck-Yokes

Adams, E. B. & Son, Racine, Wis.
 Anderson, Pole & Shaft Co., Anderson, Ind.
ANDERSON FORGE & MACHINE CO. (also Rings & Braces), 271 Guoin, Detroit, Mich. (See adv. index, end of book)
 Automatic Yoke Co., 821 E St Clair, Indianapolis, Ind.
 Boub & Scheu, Cincinnati, O.
 Buckeye Mfg. Co., Anderson, Ind.
 Burton Handle Co., Burton, O.
 Canton Pole & Shaft Co., Canton, O.
 Covert Mfg. Co., W Troy, N. Y.
 Hanover Plow Handle Co., Hanover, Pa.
 Hartwell Bros., Chicago Heights, Ill.
 Hench & Dromgold Co., York, Pa.
 Johnson, F. C., Kishwaukee, Ill.
 Jones, K., Janesville, Wis.
 McCall Mfg. Co., Morberley, Mo.
 Oshkosh Logging Tool Co., Oshkosh, Wis.
 Pittsburg Tubular Steel & Whiffletree Co. (Tubular Steel), Ridge av., Pittsburg, Pa.
 Racine Malleable & Wrought Iron Co., Racine, Wis.
 Racine Pole & Shaft Co., Racine, Wis.
 Sheldon, Mason, Kinzura, Pa.
 Sholl Whiffletree Co., Hobart, Ind.
 Sidney Pole & Shaft Co., Sidney, O.
 Sovereign, C. E. Co. ("Rockford," "Shuman's" Swivel), Rockford, Ill.
 Tanner, D. F., Holland, N. Y.
 Todd Mfg. Co. (Wagon), New Albany, Ind.
 Von Behren Mfg. Co., Evansville, Ind.
 Zeigler, Jacob, Coffeyville, Kan.
 Zimmerman, J. N., Birmingham, Mich.

Needle Mfrs.

(See Needles, various kinds, under head of Textile Machinery, Supplies, etc.)

Needles (Mining)

(See Miners' Needles & Scrapers.)

Needles (Phonograph)

(See Talking Machine Needles)

Nets (Life Saving)

Combination Ladder Co. ("Manhattan"), Providence, R. I.
 Hayward, S. F. & Co., 20 Warren, New York
 Hunter, M., 30 Dutchkill, Brooklyn, N. Y.
 Woodhouse Mfg. Co., 59 Park pl., New York

Netting (Mosquito)

McLean, Andrew Co., Passaic, N. J.
 North Scituate Cottou Mills, N. Scituate, R. I.

Neutralizer (Electric)

Portland Co. ("Chapman," to Remove Static Electricity), Portland, Me.

Nickel Mfrs.

International Nickel Co., 43 Exchange pl., New York

Nickel Plating

(See Plating Works.)

Nickeloid, Copperoid, Brassoid & Steeloid

American Nickeloid Mfg. Co. (Nickelized Sheet Steel, Zinc, Copper, Brass, etc.), Pern, Ill.

Nickelumen

New Era Mfg. Co., Kalamazoo, Mich.

Nippers (Bicycle)

Smith & Hemenway Co., 296 B'way, New York
 Starrett, L. S. Co. (Adjustable Jaw), Athol, Mass.
 Utica Drop Forge & Tool Co., Utica, N. Y.

Nippers (Blacksmiths')

Washington Tool Co. ("Larson's"), Owatonna, Minn.

Nippers (Cutting)

Bridgeport Hardware Mfg. Co., Bridgeport, Falls Mfg. Co., San Francisco, Cal.
 Heller Bros. Co., 879 Mt. Prospect av., Newark, N. J.
 Hubbard & McClary, Windsor, Vt.
 Osborne, C. S. & Co., 96 Mechanic, Newark, N. J.
 Peck, Stow & Wilcox Co., Southington, Conn.
 Schollhorn, Wm. Co. ("Bernard" End Cutting), New Haven, Conn.
 Smith & Hemenway Co., 296 B'way, New York
 Starrett, L. S. Co. (Adjustable Jaw), Athol, Mass.
 Utica Drop Forge & Tool Co., Utica, N. Y.
 Vaughn & Bushnell Mfg. Co., 875 Carroll av., Chicago, Ill.

Nippers (Fruit)

Kraeuter & Co., Newark, N. J.

Nipples (Boiler)

McKeel, Geo. A. & Co., Jackson, Mich.

Nipples (Hose)

Boston Woven Hose & Rubber Co., Executive Office & Factory, Cambridgeport, Mass.
 Belknap Mfg. Co., Bridgeport, Conn.
 Elkhart Brass Mfg. Co., Elkhart, Ind.
 Powell, Wm. & Co., 2529 Spring Grove av., Cincinnati, O.
 Queen City Brass & Iron Works, Cincinnati, O.
 Schrader's, A. Son, 30 Rose, New York

Nipples (Pipe)

Eastwood Wire Mfg. Co. (Bronze), Belleville, N. J.
 Eaton, Cole & Burnham Co. (Brass Hose & Iron), Bridgeport Conn.
 General Fire Extinguisher Co., Providence, R. I.
LUNKENHEIMER CO. (Brass), General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)
 Western Tube Co. (Brass, Malleable & Wrought), Kewanee, Ill.
 Wilder, Sidney & Co. (Brass), Holliston, Mass.

Nipples (Radiator)

McKeel, Geo. A. & Co., Jackson, Mich.
 Pratt Chuck Co., Frankfort, N. Y.

Nipples (Soldering)

(See Unions & Nipples, Soldering.)

Nipples (Zinc Coated, Steel Slip)

Pratt Chuck Co., Frankfort, N. Y.

Nitro-Glycerine

Rock Glycerine Co., Bradford, Pa.

Notching Machines

(See Machines, Notching.)

Notifiers (Burglar)

Dayton Supply Co., Dayton, O.

Nozzles (Blast)

Schntte & Koerting Co. (for Chimneys), 1251 N 12th, Phila., Pa.

*Nozzles (Fire Boat)

GLAZIER NOZZLE & MFG. CO., 501 & 502 Commercial Club bldg, Indianapolis, Ind. (See adv. on following page)

*Nozzles (Fire Department)

GLAZIER NOZZLE & MFG. CO., 501 & 502 Commercial Club bldg, Indianapolis, Ind. (See adv. on following page)

Nozzles (Hose)

Allen, W. D. Mfg. Co. (Spray), 151 Lake, Chicago, Ill.
 Barnes Mfg. Co., Mansfield, O.
 Bastian, C. L. Mfg. Co. (Fire Hose & Underwriters), 76 Illinois, Chicago, Ill.
 Belknap Mfg. Co., Bridgeport, O.
 Boston Coupling Co. ("Haley"), 156 Pearl, Boston, Mass.
 Boston Woven Hose & Rubber Co., Executive Office & Factory, Cambridgeport, Mass.
 Bradley & Munson ("Glazier, Universal"), 99 Warren, New York
 Callahan, C. Co., Boston, Mass.
 Clay, Jno. H., 1320 Ridge av., Phila., Pa.
 Crane Co., 519 S Caual, Chicago, Ill. (See adv. index & branch offices, end of book)
 Dayton Supply Co. ("Nixon-Climax"), Dayton, O.
 Eastman, Samuel & Co., East Concord, N. H.
 Eaton, Cole & Burnham Co. ("Gem"), Bridgeport, Conn.
 Elkhart Brass Mfg. Co., Elkhart, Ind.
 Fabric Fire Hose Co., Church & Duane, New York

When writing to firms whose names appear in this book please mention

HENDRICKS' COMMERCIAL REGISTER.

GLAZIER NOZZLE & MFG. CO., 501
& 502 Commercial Club bldg, Indianapolis, Ind. (See adv. below)

Landers, Frary & Clark (Inc.), ("Fairy" & "Ollmax"), New Britain, Conn.

Loeffelholz Co. (Combination & Judge Distributing), 170 Clinton, Milwaukee, Wis.

Morse, Andrew J. & Son (Inc.), ("Morse," "Monitor"), 221 High Boston, Mass.

Myers, F. E. & Bro., Ashland, O.

Oakes & Garland Co., Bay City, Mich.

Neumeyer, H. F., Macungie, Pa.

Pleuger & Heuger Mfg. Co., 11th & Hebert, St. Louis, Mo.

Pullman Mfg. Co., Rochester, N. Y.

Schrader, A. Son, 30 Rose, New York

Wolverine Brass Works, Grand Rapids, Mich.

*Nozzles (Hydraulic Mining)

GLAZIER NOZZLE & MFG. CO., 501
& 502 Commercial Club bldg, Indianapolis, Ind. (See adv. below)

Nozzles (Plumbago)

McCullough-Dalzell Crucible Co. (For Bessemer & Open Hearth Furnaces), Pittsburg, Pa.

*Nozzles (Quarry & Brick)

GLAZIER NOZZLE & MFG. CO., 501
& 502 Commercial Club bldg, Indianapolis, Ind. (See adv. below)

*Nozzles (Roof Equipment)

GLAZIER NOZZLE & MFG. CO., 501
& 502 Commercial Club bldg, Indianapolis, Ind. (See adv. below)

*Nozzles (Rotary)

GLAZIER NOZZLE & MFG. CO. (For
Water Curtains), 501 & 502 Commercial Club bldg, Indianapolis, Ind. (See adv. below)

Nozzles (Spray)

Deming Co., Salem, O.

Elkhart Brass Mfg. Co. ("Elkhart"), Elkhart, Ind.

Loeffelholz Co. ("Foley," Solid Stream, Sbut Off & Spray), Milwaukee, Wis.

Schutte & Koerting Co. (for Chemical Purposes), 1251 N. 12th, Phila., Pa.

*Nozzles (Stand Pipes)

GLAZIER & NOZZLE MFG. CO., 501
& 502 Commercial Club bldg, Indianapolis, Ind. (See adv. below)

*Nozzles (Water Tower)

GLAZIER NOZZLE & MFG. CO.
501 & 502 Commercial Club bldg, Indianapolis, Ind. (See adv. below)

Numbers & Letters (Decalcomania)

(See Ornaments, Transfer)

Numbers & Letters (Metal)

(See also Name Plates.)

ARCADE MFG. CO. (House Numbers,
Brass & Aluminum), Freeport, Ill. (See adv. index, end of book)

Benfield & Milne Mfg. Co., 67 Halleck, Newark, N. J.

Blasier, M. E. & Co., Utica, N. Y.

Brass Goods Mfg. Co., Nevins, cor Union, Brooklyn, N. Y.

Brim, A. W., Seneca Falls, N. Y.

Caesar Bros. (Enameled), 112 Fulton, N. Y.

Chicago Spring Butt Co., 54 Union Park pl, Chicago, Ill.

Everett, A. & Son (Brass Machinists, Metallic Pattern Letters & Figures), Auburn, N. Y.

Hoggson & Pettis Mfg. Co., New Haven, Conn.

Kienzle, W. F., 92 Ohio, Chicago, Ill.

Knight, H. W. & Son, Seneca Falls, N. Y.

Miller, J. Walter (House), Lancaster, Pa.

Nicol & Co. (House Numbers Only), 57 W Wash- ington, Chicago, Ill.

Norwalk Lock Co., S Norwalk, Conn.

Providence Aluminum Co., Providence, R. I.

Reading Hardware Co., Reading, Pa.

Reynolds & Zahn, 46 Mechanic, Newark, N. J.

Robbins, Jno. Mfg. Co., 58 Kneeland, Boston

Sackman, Walter L., Akron, O.

Safety Meter Lock Co., Columbus, O.

Shanafelt Mfg. Co. (Pattern, "White Metal"), Canton, O.

SMITH, F. P. WIRE & IRON WORKS
100 Lake, Chicago, Ill. (See adv. index, end of book)

Smith, R. H. Mfg. Co., 293 Main, Springfield, Mass.

Stover Mfg. Co., Freeport, Ill.

Taylor & Boggie Foundry Co., 521 Seneca, Cleveland, O.

Turner Brass Works, 66 Michigan, Chicago, Ill.

Western Brass Mfg. Works (Cast Brass & Bronze), 21st & Rockwell, Chicago, Ill.

Wilcox, Crittenden & Co., Middletown, Conn.

Zeigler Bros., Elgin, Ill.

Nut Crackers & Picks

ARCADE MFG. CO. ("Arcade,"
"Standard" & "Universal"), Freeport, Ill. (See adv. index, end of book)

Browne & Dowd Mfg. Co. (Crackers Only), Meriden, Conn.

Cassady-Fairbank Mfg. Co., 6106 La Salle, Chicago, Ill.

Landers, Frary & Clark (Inc.), New Britain, Conn.

Humanson & Beckley Mfg. Co., New Britain, Conn.

Nut Facers

(See Machines, Nut Facing.)

Nut-Locks

(See Lock-Nuts.)

Nut Machinery

(See Machinery, for various kinds of Nut Machinery.)

Nut Mfrs.

(Under this head see sub-classifications following.)

(See also Bolt, Nut & Rivet Mfrs.)

Aetna Nut Co., Southington, Conn.

American Equipment Co., Norristown, Pa.

American Iron & Steel Mfg. Co., Lebanon, Pa.

American Screw Co., Providence, R. I., & 19 Lake, Chicago, Ill.

Berry Bros., E. 1st av & R. R., Columbus, O.

Billings & Spencer Co., Hartford, Conn.

Bourne & Knowles Mfg. Co., Cleveland, O.

Capital Lock Nut & Washer Co., Columbus, O.

Central City Bolt Co., Syracuse, N. Y.

Central Iron & Steel Co., Brazil, Ind.

Chicago Screw Co., 2 N Canal, Chicago, Ill.

Clark Bros. & Co., Milldale, Conn., & 69 Dearborn, Chicago, Ill.

Cold-Jess Mfg. Co., Cleveland, O.

Columbus Bolt Works, Columbus, O.

Continental Bolt & Iron Works, 22d & Union, Chicago, Ill.

Eberhard Mfg. Co., Tennyson & C. & P. R. R., Cleveland, O.

Garland Nut & Rivet Co., Pittsburg, Pa.

Graham Nut Co., 755 Rebecca, Allegheny, Pa.

Greenlie, Wyatt & Co., 490 Water, New York

Haskell, Wm. H. Mfg. Co., Pawtucket, R. I.

Hendricks Bros., 49 Cliff, New York

Hoopes & Townsend Co., 1330 Buttonwood, Philadelphia, Pa.

Illinois Screw Co., 2 S Canal, Chicago, Ill.

Judson Mfg. Co., San Francisco, Cal.

Kansas City Bolt & Nut Co., Kansas City, Mo.

Kirk-Latty Mfg. Co., Cleveland, O.

Lamson & Sessions Co., 2118 Scranton Rd., S. W., Cleveland, O.

Lanman, E. B. Co., Columbus, O.

Lake Erie Iron Co., Wade bldg., Cleveland, O.

Lanz, Matthew & Sons, 101 S 29th, Pittsburg, Pa.

McCloud, Crane & Minter Co., Worcester, Mass.

Michigan Bolt & Nut Works, ft of Meldrum av, Detroit, Mich., & 135 Adams, Chicago

Milton Mfg. Co., Milton, Pa.

Moore, Franklin Co., Winsted, Conn.

Moran Bolt & Nut Mfg. Co., c Florida & Main, St. Louis, Mo.

Mount Carmel Bolt Co., Mt. Carmel, Conn.

National Elastic Nut Co., Russel av & Superior, Milwaukee, Wis.

National Screw & Tack Co., Cleveland, O.

Old Dominion Iron & Nail Works Co., Richmond, Va.

Oliver Iron & Steel Co., Pittsburg, Pa.

Pawtucket Mfg. Co., Pawtucket, R. I.

Phosphor Bronze Smelting Co., 2200 Wash'n av., Phila., Pa.

Pittsburg Screw & Bolt Co., Pittsburg, Pa.

Rhode Island Tool Co., Providence, R. I.

Richards, T. C. Hdw. Co., Winsted, Conn.

Rochester Machine Screw Co., Rochester, N. Y.

Rockford Bolt Works (Inc.), Rockford, Ill.

Russell, Burdall & Ward Bolt & Nut Co., Portchester, N. Y.

Russell & Erwin Mfg. Co., New Britain, Conn., & 43 Chambers, New York

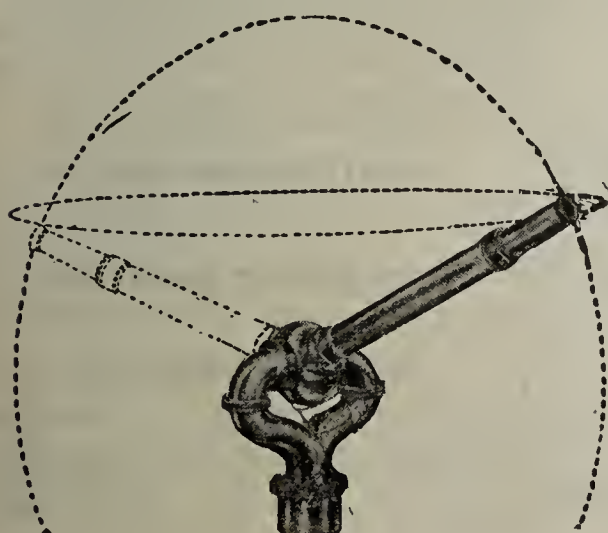
Smith, Thos. & Co., Worcester, Mass.

Upson Nut Co., Unionville, Conn., & Cleveland, Ohio

Western Automatic Machine Screw Co., Elyria, O.

Wheeling Hinge Co., Wheeling, W. Va.

Youngstown Mfg. Co., Youngstown, O.



Glazier Universal Nozzle

For Fire Departments, Fire and Tug Boats.
For Roof and Factory Equipment in lieu of Hose.
Made in all sizes from one-half inch to five and one-half inch delivery.

For Hydraulic Mining, also for stripping Stone Quarries and Brick Yards. Blue prints and full information on request.

CATALOGUES AND PRICES ON APPLICATION.

THE GLAZIER NOZZLE & MFG. CO.

501 and 502 Commercial Club Bldg., INDIANAPOLIS, IND., U. S. A.

Nut Picks

(See Nut Crackers & Picks)

Nut Tappers

(See Nut Tapping Machines.)

Nuts (Bicycle)

Chicago Screw Co., 2 N. Canal, Chicago, Ill.
Clark Bros. Bolt Co., Milldale, Conn.
McCloud, Crane & Minter Co., Worcester, Mass.
Rochester Machine Screw Co., Rochester, N. Y.
Russell, Burdsall & Ward Bolt & Nut Co., Portchester, N. Y.
St. Louis Screw Co., 600 E Clarence, St. Louis, Mo.
Upson Nut Co., Unionville, Conn., & Cleveland, Ohio
Western Automatic Machine Screw Co., Elyria, Ohio

Nuts (Brass Cap)

Corbin Screw Corporation (Acorn Cap or Blank Brass, Bronze, Iron or Steel), New Britain, Conn.
Hungerford, U. T. Brass & Copper Co., 497 Pearl, New York
Rochester Machine Screw Co., Rochester, N. Y.
St. Louis Screw Co., 600 E Clarence, St. Louis, Mo.
Standard Screw Co., 2 N Canal, Chicago, Ill.; Worcester, Mass., & Detroit, Mich.
STEWART & ROMAINE MFG. CO., 124 N 6th, Philadelphia, Pa. (See adv index, end of hook)

Nuts (Brass & Copper)

American Pin Co. (Brass Only), Waterbury, Conn.
Blake & Johnson (To Order), Waterbury, Conn.
Central City Bolt Co., Syracuse, N. Y.
Gaynor & Mitchell Mfg. Co. (Brass for Steam, Gas & Water Fittings), Bridgeport, Conn.
Hungerford, U. T. Brass & Copper Co., 497 Pearl, New York
International Brass & Electric Co. (Brass Hexagon, Machine Made), 76 Beekman, New York
National-Acme Mfg. Co., Cleveland, O.
Rochester Machine Screw Co., Rochester, N. Y.
St. Louis Screw Co., 600 E Clarence, St. Louis, Mo.
Western Automatic Machine Screw Co., Elyria, Ohio

Nuts (Case Hardened)

American Iron & Steel Mfg. Co., Lebanon, Pa.
Chicago Screw Co., Chicago, Ill.
Corbin Screw Corporation, New Britain, Conn.
Garland Nut & Rivet Co., Pittsburg, Pa.
Hall's, Sam'l Sons, 229 W 10th, New York
Haskell, Wm. H. Mfg. Co., Pawtucket, R. I.
Hoopes & Townsend Co., Phila., Pa.
McCloud, Crane & Minter Co., Worcester, Mass.
National-Acme Mfg. Co., Cleveland, Ohio.
Pawtucket Mfg. Co., Pawtucket, R. I.
Pittsburg Screw & Bolt Co. (Finished), Pittsburg, Pa.
Rhode Island Tool Co. (Finished), Providence, R. I.
Rochester Machine Screw Co., Rochester, N. Y.
Russell, Burdsall & Ward Bolt & Nut Co., Portchester, N. Y.
St. Louis Screw Co., 600 E Clarence, St. Louis, Mo.
Upson Nut Co., Unionville, Conn., & Cleveland, Ohio
Western Automatic Machine Screw Co., Elyria, Ohio

Nuts (Check & Jam)

Bourne & Knowles Mfg. Co. (Cold Punched), Cleveland, O.
Chicago Screw Co., 2 N Canal, Chicago, Ill.
Clark Bros. Bolt Co., Milldale, Conn.
Garland Nut & Rivet Co., Pittsburg, Pa.
Graham Nut Co., W Carson nr Point Bridge, Pittsburg, Pa.
Handy Car Equipment Co. (For Car & Truck Work), Old Colony bldg, Chicago, Ill.
Haskell, Wm. H. Mfg. Co., Pawtucket, R. I.
Kansas City Bolt & Nut Co., Kansas City, Mo.
McCloud, Crane & Minter Co., Worcester, Mass.
Rhode Island Tool Co., Providence, R. I.
Rochester Machine Screw Co., Rochester, N. Y.
Russell, Burdsall & Ward Bolt & Nut Co., Portchester, N. Y.

St. Louis Screw Co., 600 E Clarence, St. Louis, Mo.
Upson Nut Co., Unionville, Conn., & Cleveland, Ohio
Western Automatic Machine Screw Co., Elyria, Ohio

Nuts (Cleviss)

Cleveland City Forge & Iron Co., Cleveland, O.
Detroit, Mich.
Michigan Bolt & Nut Works, ft Meldrum av, Detroit, Mich.

Nuts (Cold Drawn)

Hartford Machine Screw Co. (Steel Hexagon), Hartford, Conn.

Nuts (Cold Pressed)

American Screw Co. (For Machine Screws, Stove Bolts, etc.), Providence, R. I.
Atlas Bolt & Screw Co., Cleveland, O.
Berry Bros., E 1st av & R R, Columbus, O.
Columbus Bolt Works, Columbus, O.
Kirk-Latty Mfg. Co., Cleveland, O.
Ohio Nut & Bolt Co., Berea, O.
Union Nut & Bolt Co., Unionville, Conn.

Nuts (Cold Punched)

American Iron & Steel Mfg. Co., Lebanon, Pa.
Berry Bros., E 1st av & R R, Columbus, O.
Bourne & Knowles Mfg. Co., Cleveland, O.
Chicago Screw Co., (Hexagon), 2 N Canal, Chicago, Ill.
Clark Bros. Bolt Co., Milldale, Conn.
Columbus Bolt Works, Columbus, O.
Corbin Screw Corporation (Tapped, Square & Hexagon), New Britain, Conn.
Garland Nut & Rivet Co., Bailey-Farrell bldg, Pittsburg, Pa. Works; West Pittsburg, Pa.
Graham Nut Co., W Carson nr Point Bridge, Pittsburg, Pa.
Hall's, Sam'l Sons, 229 W. 10th, New York
Haskell, Wm. H. Mfg. Co., Pawtucket, R. I.
Hoopes & Townsend Co., Philadelphia, Pa.
Lake Erie Iron Co., Wade bldg., Cleveland, O.
Lanman, E. B. Co., Columbus, O.
McCloud, Crane & Minter Co., Worcester, Mass.
Milton Mfg. Co. (Chamfered & Trimmed), Milton, Pa.
Moran Bolt & Nut Mfg. Co., Florida & Main, St. Louis, Mo.
Mount Carmel Bolt Co. (Stove, Bolt & Rod, etc.), Mount Carmel, Conn.

NATIONAL SUPPLY CO., 7 W Lombard, Baltimore, Md. (See adv. index, end of book)
Neely Nut & Bolt Co., S 22d & P. & L. R. R., Pittsburg, Pa.
Pawtucket Mfg. Co., Pawtucket, R. I.
Pittsburg Screw & Bolt Co. (Chamfered & Trimmed), Pittsburg, Pa.
Rhode Island Tool Co., Providence, R. I.
Russell, Burdsall & Ward Bolt & Nut Co., Portchester, N. Y.
St. Louis Screw Co., 600 E Clarence, St. Louis, Mo.
Smith, Thos. & Co., Worcester, Mass.
Upson Nut Co., Unionville Conn., & Cleveland, Ohio

Nuts (Elastic)

Quincy-Manchester-Sargent Co., Old Colony bldg, Chicago, Ill., & 114 Liberty, New York

Nuts (Hot Pressed)

Aetna Nut Co., Southington, Conn.
American Equipment Co. ("U. S. Standard"), Norristown, Pa.
American Iron & Steel Mfg. Co., Lebanon, Pa.
Elastic Nut & Bolt Co., Russell av & Superior, Milwaukee, Wis.
Capital Lock Nut & Washer Co., Columbus, O.
Columbus Bolt Works, Columbus, O.
Graham Nut Co., W Carson nr Point Bridge, Pittsburg, Pa.
Hall's, Sam'l Sons, 229 W 10th, New York
Hoopes & Townsend Co., 1300 Buttonwood, Phila., Pa.
Kansas City Bolt & Nut Co., Kansas City, Mo.
Lake Erie Iron Co., Wade bldg., Cleveland, O.
Lamson & Sessions Co., 2188 Scranton rd, S W, Cleveland, O.
Lanz, Matthew & Sons, 101 S. 29th, Pittsburg, Pa.
Michigan Bolt & Nut Works, ft Meldrum av, Detroit, Mich.
Milton Mfg. Co. (Square & Hexagon), Milton, Pa.
Moran Bolt & Nut Mfg. Co., Florida & Main,

NATIONAL SUPPLY CO., 7 W Lombard, Baltimore, Md. (See adv. index, end of book)

Neely Nut & Bolt Co., S 22d & P. & L. R. R., Pittsburg, Pa.
New Castle Forge & Bolt Co. (Square & Hexagon), New Castle, Pa.
Old Dominion Iron & Nail Works Co., Richmond, Va.
Oliver Iron & Steel Co., Pittsburg, Pa.
Penn Iron Co., Lancaster, Pa.
Pittsburg Mfg. Co., 23th & R. R., Pittsburg, Pa.
Republic Iron & Steel Co., Frick bldg. Annex, Pittsburg, Pa.
St. Louis Screw Co., 600 E Clarence, St. Louis, Mo.
Scranton Bolt & Nut Co. (Square & Hexagon), Scranton, Pa.
Union Nut & Bolt Co., Unionville, Conn.
Upson Nut Co., Unionville, Conn., & Cleveland, Ohio

Nuts (Joint)

American Iron & Steel Mfg. Co., Lebanon, Pa.
Haskell, Wm. H. Mfg. Co., Pawtucket, R. I.
Hoopes & Townsend Co., 1330 Buttonwood, Philadelphia, Pa.
Moran Bolt & Nut Mfg. Co., Florida & Main, St. Louis, Mo.
Oliver Iron & Steel Co., Pittsburg, Pa.
Republic Iron & Steel Co., Frick bldg Annex, Pittsburg, Pa.
Rhode Island Tool Co., Providence, R. I.
Russell, Burdsall & Ward Bolt & Nut Co., Portchester, N. Y.
St. Louis Screw Co., 600 E Clarence, St. Louis, Mo.
Smith, Thos. & Co., Worcester, Mass.
Upson Nut Co., Unionville, Conn., & Cleveland, O.

Nuts (Knurled)

Corbin Screw Corporation (Thumb), New Britain, Conn.
Pratt & Whitney Co., Hartford, Conn.
St. Louis Screw Co., 3017 N 13th, St. Louis, Mo.

Nuts (Lock)

(See Lock-Nuts.)

Nuts (Machine Screw)

American Screw Co. (Tapped), Providence, R. I., & 19 Lake, Chicago, Ill.
Atlas Bolt & Screw Co. (Brass & Iron), Cleveland, O.
Chicago Screw Co., 2 N Canal, Chicago, Ill.
Columbus Bolt Works, Columbus, O.
Corbin Screw Corporation, New Britain, Conn.
Moran Bolt & Nut Mfg. Co., Florida & Main, St. Louis, Mo.
Old Dominion Iron & Nail Works Co., Richmond, Va.
Rhode Island Tool Co., Providence, R. I.
Rochester Machine Screw Co., Rochester, N. Y.
St. Louis Screw Co., 3017 N 13th, St. Louis, Mo.
Upson Nut Co., Unionville, Conn., & Cleveland, Ohio

Nuts or Collars

Chicago Screw Co., 2 N Canal, Chicago, Ill.
Haskell, Wm. H. Mfg. Co., Pawtucket, R. I.
Hoopes & Townsend Co., 1330 Buttonwood, Philadelphia, Pa.
Rhode Island Tool Co., Providence, R. I.
Russell, Burdsall & Ward Bolt & Nut Co., Portchester, N. Y.
St. Louis Screw Co., 3017 N 13th, St. Louis, Mo.
Smith, Thos. & Co., Worcester, Mass.

Nuts (Phosphor Bronze)

Phosphor Bronze Smelting Co., 2204 Washington av, Philadelphia, Pa.

Nuts (Planer Head Bolt)

Chicago Screw Co., 2 N Canal, Chicago, Ill.

Nuts (Semi-Finished)

American Iron & Steel Mfg. Co., Lebanon, Pa.
Columbus Bolt Works, Columbus, O.
Corbin Screw Corporation, New Britain, Conn.
Chicago Screw Co., 2 N Canal, Chicago, Ill.
Detroit Screw Works (also Finished), Detroit, Mich.
Garland Nut & Rivet Co., Pittsburg, Pa.
Hall's, Samuel Sons, 229 W 10th, New York

Haskell, Wm. H. Mfg. Co., Pawtucket, R. I.
 Hoopes & Townsend Co., 1330 Buttonwood, Philadelphia, Pa.
 McCloud, Crane & Minter Co., Worcester, Mass.
 Milton Mfg. Co., Milton, Pa.
 National Acme Mfg. Co., Cleveland, Ohio
 Old Dominion Iron & Nail Works Co., Richmond
 Pawtucket Mfg. Co., Pawtucket, R. I.
 Pittsburgh Screw & Bolt Co., Pittsburgh, Pa.
 Rhode Island Tool Co., Providence, R. I.
 Rochester Machine Screw Co., Rochester, N. Y.
 Russell, Burdall & Ward Bolt & Nut Co., Port Chester, N. Y.
 St. Louis Screw Co., 3017 N 13th, St. Louis, Mo.
 Upson Nut Co., Unionville, Conn., & Cleveland, Ohio
 Western Automatic Machine Screw Co., Elyria, Ohio

Nuts (Sleeve)

Rhode Island Tool Co., Providence, R. I.
 American Iron & Steel Mfg. Co. (Hexagon, Pipe etc.), Lebanon, Pa.
 Kansas City Bolt & Nut Co., Kansas City, Mo.
 Moran Bolt & Nut Mfg. Co., Florida & Main, St. Louis, Mo.
 Mount Carmel Bolt Co., Mount Carmel, Conn.
 Republic Iron & Steel Co., Frick bldg Annex, Pittsburgh, Pa.
 Rhode Island Tool Co., Providence, R. I.

Nuts (Stove, Bolt & Rod)

American Screw Co., Providence, R. I.; 19 Lake, Chicago, Ill.
 Atlas Bolt & Screw Co., Cleveland, O.
 Berry Bros., E 1st av & R. R., Columbus, O.
 Columbus Bolt Works, Columbus, O.
 Corbin Screw Corporation, New Britain, Conn.
 Lamson & Sessions Co., Cleveland, O.
 Moran Bolt & Nut Mfg. Co., Florida & Main, St. Louis, Mo.
 Mount Carmel Bolt Co., Mt. Carmel, Conn.
 Republic Iron & Steel Works, Frick bldg Annex, Pittsburgh, Pa.
 St. Louis Screw Co., 3017 N 13th, St. Louis, Mo.

Nuts (Tapped)

American Iron & Steel Mfg. Co., Lebanon, Pa.
 Capital Lock, Nut & Washer Co., Columbus, O.
 Columbus Bolt Works, Columbus, O.
 Chicago Screw Co., 2 N Canal, Chicago, Ill.
 Colorado Fuel & Iron Co., Denver, Col.
 Corbin Screw Corporation (Square & Hexagon), New Britain, Conn.
 Graham Nut Co., W Carson nr Point Bridge, Pittsburgh, Pa.
 Garland Nut & Rivet Co., Pittsburgh, Pa.
 Hoopes & Townsend Co., 1330 Buttonwood, Philadelphia, Pa.
 Kansas City Nut & Bolt Co., Kansas City, Mo.
 Lamson & Sessions Co., Cleveland, O.
 Lanz, M. & Sons, 101 S 29th, Pittsburgh, Pa.
 McCloud, Crane & Minter Co., Worcester, Mass.
 Michigan Bolt & Nut Works, ft Meldrum av., Detroit, Mich.
 Milton Mfg. Co., Milton, Pa.
 Moran Bolt & Nut Mfg. Co., St. Louis, Mo.
 Old Dominion Iron & Nail Works Co., Richmond.
 Oliver Iron & Steel Co., Pittsburgh, Pa.
 Penn Iron Co., Lancaster, Pa.
 Republic Iron & Steel Co., Frick bldg Annex, Pittsburgh, Pa.
 Rhode Island Tool Co., Providence, R. I.
 Rochester Machine Screw Co., Rochester, N. Y.
 St. Louis Screw Co., 600 E Clarence, St. Louis, Mo.
 Smith, Thos. & Co., Worcester, Mass.
 Upson Nut Co., Unionville, Conn., & Cleveland, Ohio
 Western Automatic Machine Screw Co., Elyria, Ohio

Nuts (Thumb or Wing)

American Iron & Steel Mfg. Co., Lebanon, Pa.
 Besley, Chas. H. & Co., Chicago.
 Billings & Spencer Co., Hartford, Conn.
 Chicago Screw Co., 2 N. Canal, Chicago, Ill.
 Columbus Bolt Works, Columbus, O.
 Corbin Screw Corporation (Brass, Bronze, Iron & Steel), New Britain, Conn.
 Eberhard Mfg. Co., Tennyson & C. P. R. R., Cleveland, O.
 Haskell, Wm. H. Mfg. Co., Pawtucket, R. I.
 Hoopes & Townsend Co., 1330 Buttonwood, Philadelphia, Pa.
 Keystone Drop Forge Works (Drop Forged), Chester, Pa.
 Lamson & Sessions Co., Cleveland, O.
 Logan & Strobbridge Iron Co. (Thumb), New Brighton, Pa.
 Michigan Bolt & Nut Works, ft Meldrum av., Detroit, Mich.

Miles, Franklin S. (Est. of), 205 Quarry, Phila., Pa.
 Morris, Herbert, Betz bldg, Phila., Pa.
 Mount Carmel Bolt Co., Mount Carmel, Conn.
 National Novelty Corporation (Thumb), 826 B'way, New York
 Phila. Machine Screw Works, 624 Race, Philadelphia, Pa.
 Pratt & Letchworth, Buffalo, N. Y.
 Republic Iron & Steel Co., Frick bldg Annex, Pittsburgh, Pa.
 Rhode Island Tool Co., Providence, R. I.
 St. Louis Screw Co., 600 E. Clarence, St. Louis, Mo.
 Upson Nut Co., Unionville, Conn., & Cleveland, Ohio
 Welch, T. F. & Co. (Brass), 55 Sudbry, Boston, Mass.
WHITMAN & BARNES MFG. CO., Chicago, Ill. (See adv. index & branch offices, end of book)

Nuts (Tire Bolt)

American Screw Co., Providence, R. I., & 19 Lake, Chicago, Ill.
 Atlas Bolt & Screw Co., Cleveland, O.
 Berry Bros., E 1st av & R. R., Columbus, O.
 Columbus Bolt Works, Columbus, O.
 Corbin Screw Corporation, New Britain, Conn.
 Lamson & Sessions Co., Cleveland, O.
 Republic Iron & Steel Co., Frick bldg Annex, Pittsburgh, Pa.
 St. Louis Screw Co., 600 E Clarence, St. Louis, Mo.
 Upson Nut Co., Unionville, Conn., & Cleveland, Ohio

Oakum

Alden, H. L., Camden, Me.
 American Mfg. Co., 63 Wall, N. Y.
 Baltimore Oakum Works (Napoleon B. Woodward, Prop.), 916 S. Broadway, Baltimore, Md.
 Baker, Wm. T., Jersey City, N. J.
CARPENTER, GEO. B. & CO., 202 S Water, Chicago, Ill. (See adv. index, end of book)
 Chelsea Fibre Mills, 33 Union sq, New York. Factory: Brooklyn, N. Y.
 Davey, W. O. & Sons, 47 South, N. Y.
 De Graun & Boyden, 14 Coenties sl, N. Y.
 Disbrow & Co., 56 Warren, N. Y.
 Hoffman-Corr Mfg. Co., 55 White, Duane, N. Y.
 Lawrence Cordage Works, 46 South, N. Y.
 Marine Mfg. & Supply Co., 156 South, N. Y.
 Meagher's, Jas. Sons, 327 28th, San Francisco, Cal.
 Planet Mill Mfg. Co., 335 Carroll, Brooklyn, N. Y.
 Stratford, Geo. Oakum Co., Jersey City, N. J.
 Tibbals Oakum Co., Cobalt, Conn.
 Travers Bros. Co., 41 Worth, N. Y.
 Wall, Wm. F., 56 South, New York

Oar Mfrs.

Bailey Co. (Steel), 220 21st, Detroit, Mich.
CARPENTER, GEO. B. & CO., 202 S Water, Chicago, Ill. (See adv. index, end of book)
 Clarendon Boat & Ore Co., Clarendon, Ark.
 Davis Boat & Oar Co., Detroit, Mich.
 De Grauw Aymer & Co., 34 South, New York
 Detroit Boat Works, Detroit, Mich.
 Detroit Canoe & Oar Works, Detroit, Mich.
 Ester, E. B. & Son, 45 John, New York City
 Hinckley Bros. & Co., 58 Commercial, Boston, Mass.
 New York Boat Oar Co., 69 West, New York.
 Racine Mfg. Co., Racine, Wis.
 Ruchton, J. H., Canton, N. Y.
 St. Lawrence River Skiff, Canoe & S. L. Co., Clayton, N. Y.
 Sheldon, Orin Co., Boston, Mass.
 Smith, Jno. T., 159 South, New York
 Squiers, Hy. C. & Son, 20 Cortlandt, New York
 Strand-Youngquest Mfg. Co., 2900 Clinton av, Minneapolis, Minn.
 Stryker Mfg. Co., Stryker, Ohio.
 Trumbull, Ell., Mentone, Ind.
 West Unity Mfg. Co., West Unity, Ohio.
 Wells Boat Oar Co., Devall Bluff, Ark.
 Wilber & Wheelock, Clayton, Ohio.

Oats Cleaner

Kasper Oats Cleaner Co. (Sole owners of "Kaspers"), 400 Wabash av, Chicago, Ill.
 Kasper, W. S. Standard Oats Cleaner Co., 32 Swiss, Cleveland, O.
SMITH, F. P. WIRE & IRON WORKS, 100 Lake, Chicago, Ill. (See adv. index, end of book)

Ochre Miners & Mfrs.

(See Clays, Minerals, Etc.)

Odometers

(See Meters, Distance Recording)

Odorless Steel Vehicles

Sarvis, J. H., Newburg, N. Y.
 United States Sanitary Co., 618 Penna. av, N. W., Washington, D. C.

Office Railing

(See Bank & Office Railing.)

*Office & Loft Building Directories (Changeable)

TABLET & TICKET CO., 87 Franklin, Chicago, Ill., & 381 B'way, New York, N. Y. (See adv. index, end of book)

Ohmmeters

Illinois Electric Specialty Co. (Direct Reading), Tacoma bldg, Chicago
 Jewell Electrical Instrument Co., 67 Union Park et, Chicago
 Keystone Electrical Instrument Co., 9th & Montgomery av, Phila., Pa.
 Veeder Mfg. Co., Hartford, Conn.
 Whitney Electrical Instrument Co., Penacook, N. H.

*Oil Burners for Furnaces, Boilers & Melting Tanks

PETROLEUM IRON WORKS CO., Washington, Pa. (See adv. index & branch offices, end of book)

*Oil Cans (Glass)

BERGER MFG. CO., Main Office & Works, Canton, O. (See adv. index & branch offices, end of book)

Oil Cloth Mfrs.

(See also Linoleum Mfrs.)

Blabon, Geo. W. Co. (Floor), 34 N 5th, Phila., Pa.
 Columbus Oil Cloth Co. (Table & Enameled), Columbus, O.
 Dunn, J. C. & Co. (Floor), Camden, N. J.
 Farr & Bailey Mfg. Co. (Floor Oil Cloth & Rugs), Camden, N. J.
 Nairn Linoleum Co. (Floor), Kearney, N. J.
 Potter, Thos., Sons Co. (Inc.), (Floor, Table & Rugs), 522 Arch, Phila., Pa., & 41 Union sq, New York
 Standard Table Oil Cloth Co. (Table, Shelf, Stair & Carriage, etc., Enameled), 320 B'way, N. Y.
 Taunton Oil Cloth Co., Taunton, Mass.
 Trenton Oil Cloth & Linoleum Co. (Table, Shelf & Stair Enameled, etc.), Trenton, N. J.

Oil (Corn)

American Hominy Co., Indianapolis, Ind.

*Oil Cup Bases (Pressure-Oiling Systems)

LUNKENHEIMER CO., General Office & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

Oil Cups

(See Lubricators, Oil & Grease Cup)

Oil Feeders

(See Feeders, Oil.)

Oil Filters

(See Filters, Oil.)

Oil (Gas)

Gulf Refueling Co., Frick bldg, Pittsburg, Pa.
Refinery: Port Arthur, Tex.
Prairie Oil & Gas Co., Independence, Kans.
Sun Oil Co., Toledo, O.

Oil Guns & Syringes

Frost Mfg. Co. (Oil Gun), Kenosha, Wis.
Miller, Chas. E. (Oil Gun), 97 Reade, New York
Motor Car Supply Co. (Oil Gun), Chicago, Ill.
N. Y. & N. J. Lubricant Co. (Oil Gun), 14 Church, New York
Noera Mfg. Co., Waterbury, Conn.
WILSON, F. CORTEZ & CO., 239
Lake, Chicago, Ill. (See adv. index, end of book)

Oil Hole Covers & Cups

Bay State Stamping Co. ("Bennett," Self Closing, & Toggle Top), Worcester, Mass.
Bowen Mfg. Co., Auburn, N. Y.
Tucker, W. W. & C. F. ("Tucker" Two-piece Self-closing), Hartford, Conn.
Wiukley Co., Detroit, Mich.

Oil (Red, Mfrs.)

Goodwin Mfg. Co., St. Louis, Mo.
Schneider, E. & Co. (Saponified), Fisher bldg, Chicago, Ill.

*Oil Refineries Complete (Constructors of)

PETROLEUM IRON WORKS CO.,
Washington, Pa., & Farmers' Bank bldg, Pittsburg, Pa. (See adv. index, end of book)
REEVES BROS. CO., Alliance, O.
(See adv. index, end of book)

Oil Stains

(See Wood Stains.)

Oil Stones

Chicago Wheel & Mfg. Co. ("Gem"), 40 W Randolph, Chicago, Ill.
Deerlick Oil-Stone Co., Chagrin Falls, O., & 7 Warren, N. Y.
Gesswein, F. W. Co., 39 John, N. Y.
Manlius Stone Co., Manlius, N. Y.
NORTON CO. ("India"), Worcester, Mass. (See adv. index & branch offices, end of book)
Pike Mfg. Co., Pike Station, N. H.
Star Corundum Wheel Co., Detroit, Mich.

Oil Testing Machines

(See Machines, Oil Testing.)

Oil Well Supplies (Rubber)

BOSTON BELTING CO., 260 Devonshire, Boston, Mass. (See adv. index, & branch offices end of book)
Boston Woven Hose & Rubber Co., Cambridge, Mass.
Goodrich, B. F. Co., Akron, Ohio
Gutta Percha & Rubber Mfg. Co., 126 Duane, New York
Home Rubber Co., Trenton, N. J.
Lake Shore Rubber Co., Erie, Pa.
N. J. Car Spring & Rubber Co., Jersey City, N. J.
Peerless Rubber Mfg. Co., 16 Warren, New York
Republic Rubber Co., Youngstown, O.
Revere Rubber Co., Boston, Mass.
Voorhees Rubber Mfg. Co., Jersey City, N. J.

Oil & Gas Well Supplies

Acme Supply Co., Corsicana, Tex.
Adams Bros. Co., Findlay, O.
AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)
Angell Mfg. Co. (Brass & Steel Specialties), Franklin, Pa.
Bayne, Wilson & Pratt, Pittsburg, Pa., & Bradford, Pa.
Bennett, Jas. E., Emlenton, Pa.
Bowlard & Seyfang Mfg. Co., Bradford, Pa.
Busch, A. H. Co., Los Angeles, Cal.
Caldwell, E. R. & Co., Bradford, Pa.
California Supply Co., Los Angeles, Cal.
Campbell, J. G. & W., Butler, Pa.
Carey Bending Co., Carey, O.

CARPENTER, GEO. B. & CO., 202 S Water, Chicago, Ill. (See adv. index, end of book)

Carruthers & Co., Parkersburg, W. Va.
Childs, Jno., Smiths Ferry, Pa.
Clark Supply Co., Noblesville, Ind.
Corlett & Co., Knox, Pa.
Crane Co. (Est. 1855), 519 S. Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
Darling Pump & Mfg. Co. (Ltd.), Williamsport, Pa.
Dresser, S. R. (Specialties), Bradford, Pa.
Dunham, Carrigan & Hayden Co., San Francisco, Cal.
Emery, L., Jr., & Co., Bradford, Pa.
Emery, W. N. & Son, Franklin, Pa.
Evans Mfg. Co., Butler, Pa.
Findlay Foundry & Machine Co., Findlay, O.
Franklin Supply Co., Franklin, Pa.
Frick & Lindsay Co., 109 Wood, Pittsburg, Pa.
Galloway, G. W., 322 Pearl, N. Y.
Harper & Reynolds Co., Los Angeles, Cal.
Harron, Richard & McCone (Inc.), San Francisco, Cal.
Hays, E. F. & Sons, Chicora, Pa.
Heller, Aller & Co., Napoleon, O.
Herron, R. H. Co., Los Angeles, Cal.
Hoch Bros., Chicora, Pa.
Hooker, J. D. Co., Los Angeles, Cal.
Jarecki Mfg. Co., Erie, Pa., & Pittsburg, Pa.
Johnson, C. H., Chicora, Pa.
Jones, S. M. Co., Toledo, O.
Kane Supply Co., Kane, Pa.
Keisler, Geo. & Co., Muncie, Ind.
Kelly & Jones Co., 135 Water, Pittsburg, Pa.
Kesselman & Co., Butler, Pa.
Laney, T. G., Lima, O.
Laughner, E. E., Ethel Landing, Pa.
Leidecker Tool Co., Marietta, O.
Leschen, A. & Sons Rope Co., St. Louis, Mo.
Logan, A. W., Oil City, Pa.
McDowell, W. I., Knox, Pa.
McEwen Bros., Wellsville, N. Y.
McFie, W. T. Supply Co., Los Angeles, Cal.
Magee, Jno. A. & Son, Clarion, Pa.
Marion Supply & Oil Co., Marion, O.
Masseth & Black, Butler, Pa.
Miller Bros., Wheeling, W. Va.
Mitchell, H. B., Emlenton, Pa.
Moorehouse, G. W., Kinzua, Pa.
Muncie Gas Engine & Supply Co., Muncie, Ind.
National Supply Co., 3 St. Clair, Toledo, O., & Conestoga bldg., Pittsburg, Pa.
Ohio Valley Supply Co., Marietta, O.
OIL WELL SUPPLY CO., 215 Water, Pittsburg, Pa. (See adv. index, end of book)
Parke & Lacy Co., San Francisco, Cal.
Pattin Bros. Co., Marietta, O.
Pickett Hardware Co., Warren, Pa.
Prichard, F. A. & Co., Mannington, W. Va.
Reid, Jos. Gas Engine Co., Oil City, Pa.
Rouseville Supply Co., Rouseville, Pa.
Sennett, G. B. Co., Youngstown, O.
Sherman, J. B., Butler, Pa.
Sinclair & Morrison Co., Lima, O.
Spence & Smith, Parkersburg, W. Va.
Swan, Jno. W. Co., Lima, O.
Tay, Geo. H. Co., 49 1st, San Francisco, Cal.
Turner, C. H. Co., Parkersburg, W. Va.
Wyssbrod, E. V. & Co., Findlay, O.
Young & Groove, Eldred, Pa.

Oil & Grease Cups

(See Lubricators, Oil & Grease Cup)

Oil & Grease Extractors

(See also Separators, Steam & Oil.)

Acton, John, 118 John, Brooklyn, N. Y.
Ambrose Machine Co., Eagle & Provost, Brooklyn, N. Y.
Atwood & Morrill ("XX Century"), Salem, Mass.
Consolidated Engineering Co. ("Van Auken"), 100 Jackson & Canal, Chicago, Ill.
Griffing, A. A. Iron Co., Jersey City, N. J.
Hussey, McCann & Co. ("Peerless" Grease), 87 Warren, New York
Jacobs, C. & Co. ("Lowden"), 51 Oliver, Boston, Mass.
Jarecki Mfg. Co., Erie Pa., & Pittsburg, Pa.
Jarvis Engine & Machine Works ("Monitor"), Lansing, Mich.
Kruzer & Blind Co., 511 Master, Phila., Pa.
Lippincott Steam Specialty & Supply Co. ("Lippincott"), Newark, N. J.
Loew Mfg. Co. ("Loew"), Cleveland, O.
Reliance Mfg. Co., Cleveland, O.
Robertson, Jas. L. & Sons, Inc., 48 Warren, New York
Watson & McDaniel Co., 146 N 7th, Phila., Pa.
WILSON, F. CORTEZ & CO., 239
Lake, Chicago, Ill. (See adv. index, end of book)

Oilers (Car Pit)

Hawklus Car Oiler & Specialty Mfg. Co., Inc. ("Hawklus"), Lowell, Mass.
McClintock & Irvine Co., Neville & P. R. R., Pittsburg, Pa.

*Oilers (Cross Head Pin)

LUNKENHEIMER CO. ("H.-W."),
General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

Oilers (Engine & Machine)

(See also Cans, Oil, etc.)

Akron Mfg. Co. ("Maranville"), Akron, O.
American Tube & Stamping Co. (Steel, Brass, Copper or Nickel Plated), Bridgeport, Conn.
Big Thunder Mfg. Co. (Engine Cylinder), Belvidere, Ill.
Consolidated Fruit Jar Co., New Brunswick, N. J.
Detroit Ship Building Co. (Brass Dept.), ("McCoy"), Detroit, Mich.
Deverall Perfection Mfg. Co. ("Deverall"), Coney Island av & Johnson pl, Brooklyn, N. Y.
Dover Stamping & Mfg. Co. (Tin & Brass), Cambridge, Mass.
Draper Co. ("Getchell's Improved 'Thompson'"), Hopedale, Mass.
Essex, G. B. Brass Co., Detroit, Mich.
Gans, Jno. L. (The Tormay), Connellsville, Pa.
Gem Mfg. Co. ("Gem" & "Pyramid"), Polished Brass & Steel Bright Finish, Spruce st 33d, Pittsburg, Pa.
Geuber & Paeschke Mfg. Co. (Pieced Tin & Galvanized Iron, Bent & Straight Spout, also Spring Bottom Oilers), Milwaukee, Wis.
Gustafson Mfg. Co. (Rapid Fire Car Wheel), Chattanooga, Tenn.
Hall Mfg. Co., 62 Cliff, N. Y.
Hammer & Co. (Malleable Iron), Branford, Conn.
Hero Fruit Jar Co., Gaul & Adams, Phila., Pa.
Iron Clad Mfg. Co. ("Thompson"), 46 Cliff, N. Y.
Ironsides Co. ("Tormay"), Columbus, O.
Jackson, J. W. ("Jackson" Oil Can), Sharpsville, Pa.
Johnson Mfg. Co., Urbana, O.
Knapp Mfg. Co. (Engineers' Brass Sets), 24 Frankfort, N. Y.
Lonergan, J. E. & Co., 211 Race, Phila., Pa.
LUNKENHEIMER CO., General Office & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)
McClintock & Irvine Co. ("M. & I." Sheet Steel), Pittsburg, Pa.
Manhattan Brass Co. (Brass & Zinc), 334 E 28th, New York
Maple City Mfg. Co. ("Howland" Pump & Valve Oiler), Monmouth, Ill.
Michigan Lubricator Co. ("Michigan" Sight Feed & Steel & Nickel Hand Oilers), Detroit, Mich.
Noera Mfg. Co. ("Noera," "Thompson," "Puritan" Brass & Steel, of all kinds), Waterbury, Conn.
Nugent, Wm. W. & Co. ("Nugent," Crank & Crosshead Pin, etc.), 18 W. Randolph, Chicago, Ill.
PENBERTHY INJECTOR CO., 346
Holden av, Detroit, Mich. (See adv. index, end of book)
Powell, Wm. Co. (Glass, Plain & Sight Feed), 2529 Spring Grove av, Cincinnati, O.
Rochester Automatic Oiler & Supply Co. ("Rochester" Automatic Self-Filling Steel Oiler), Rochester, N. Y.
Sands Mfg. Co. ("Sands," Steel Brazed), Allegheny, Pa.
Smith, S. W. (The Cannon), Keithsburg, Ill.
Tower & Lyon Co. ("Dome," Spring Bottom, Malleable Iron), 95 Chambers, New York
Troy Stamping Wks., Troy, N. Y.
Vogel, Wm. & Bros., 37 S 9th, Brooklyn, N. Y.
Wall, P. Mfg. & Supply Co. ("Wall's" Vent, Pyramid, Steel & Spring Bottom), Allegheny, Pa.
WHITMAN & BARNES MFG. CO.,
(Copperized Steel, etc.), Chicago, Ill. (See adv. index & branch offices, end of book)
Wilkinson Mfg. Co. ("Wilkinson" Force Feed), 69 Wall, New York
WILSON, F. CORTEZ & CO., 239
Lake, Chicago, Ill. (See adv. index, end of book)

OIL WELL SUPPLY CO.

Prospecting and Power Machinery

BOILERS

GAS ENGINES

STEAM ENGINES

DRILLING TOOLS

DRILLING MACHINES

MANILA AND STEEL ROPE

STEAM, LINE AND DRIVE

PIPE CASING TUBING.

BRASS GOODS

STOCKS AND DIES

MILL AND MINE SUPPLIES

VALVES OF ALL DESCRIPTIONS

STEAM, WATER AND GAS SUPPLIES

PIPE LINE AND REFINERY SUPPLIES.

MAIN OFFICES

PITTSBURGH, PA., U. S. A.

The "Penberthy" line with a reputation.

THEY ARE MADE FROM
CASTINGS
NOT SPUN BRASS



IF YOU SAY "PENBERTHY"
TO YOUR DEALER
YOU CAN DEPEND ON QUALITY

LINE OF OILERS AND GREASE CUPS, ETC., ETC.
ARE IN A CLASS BY THEMSELVES. BE SURE TO LOOK FOR THE TRADE-MARK "PENBERTHY"



"SAFETY"
Crank Pin
Oiler



"IXL"
Spring-Top
Oiler



"SANCHO"
Sight-Feed
Oiler



"SHORT STOP"
Sight-Feed
Oiler



"SCREW TOP"
Plain Brass
Oiler



"SAMSON"
Positive Screw
Grease Cup



"SILEX"
Spring Compression
Grease Cup

BRANCHES
NEW YORK CITY
LONDON, ENGLAND

WRITE FOR CATALOGUE
PENBERTHY INJECTOR CO.
DETROIT, MICH.

MADE IN CANADA BY
Penberthy Injector Co., Ltd.,
WINDSOR, ONT.

Hendricks' Commercial Register

IS USED FOR



PURCHASING
PURPOSES



BY A GREATER VARIETY OF INDUSTRIES
THAN ANY OTHER PUBLICATION ISSUED

AUSTIN PIPE ORGANS

OUR AIR CHEST

is an air-tight room, filled with air, on which all the pipes stand, and are fed directly and individually. It can be entered at will by means of air-tight doors, even while the organ is being played. All parts are exposed to view, and are readily accessible.

OUR ACTION

is absolutely reliable in repetition and instantaneous in response, whether tubular or electro-pneumatic, and is unaffected by atmospheric changes, even in the most trying climates.

OUR TONE

is achieved by a scientific system of voicing, worked out after long, careful study and tests, producing a most artistic, full, rich and dignified tone.

OUR CONSOLE

is most modern, simple, practical and convenient for the organist.

A Few Notable Four Manual Austin Organs.

Cathedral of All Saints, Albany, N. Y.
Temple Auditorium, Los Angeles, Cal.
St. Vincent Archabbey, Beatty, Pa.
St. John the Baptist Church, Manayunk, Pa.
Concert Hall, John Wanamaker's N. Y. Store.
Jamestown Exposition, Norfolk, Va.
First Presbyterian Church, Seattle, Wash.
St. Stephen's Episcopal Church, Wilkes-Barre, Pa.
First Church of Christ, Scientist, Denver, Col.

We use the same system and materials in our smaller work as in our larger instruments.

Write for Descriptive Book "R" giving list of Organs and full particulars of our system.

AUSTIN ORGAN COMPANY

HARTFORD, CONN.



Oilers (Floor)

Garnet, Geo. H. ("Universal"), Allentown, Pa.

Oilers (Locomotive)

Akron Mfg. Co. ("Maranville"), Akron, O.
 Gray, Peter & Sons (Engineers' Heavy), 88 Union, Boston, Mass.
 Handlan-Buck Mfg. Co. ("Perfection" Valve), St. Louis, Mo.
 Jackson, J. W. ("Jackson" Oil Can), Sharpsville, Pa.
 Johnson Mfg. Co., Urbana, O.
 Knapp Mfg. Co., 24 Frankfort, New York
 Loneragan, J. E. & Co. (Piston Rod, Guide Valve, Stem Oilers, etc.), 211 Race, Phila., Pa.

LUNKENHEIMER CO., General Office & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

Maple City Mfg. Co. ("Howland" Pump Oilers, etc.), Monmouth, Ill.

PENBERTHY INJECTOR CO., 346 Holden av, Detroit, Mich. (See adv. index, end of book)

Noera Mfg. Co. ("Noera" Brass & Steel of all kinds), Waterbury, Conn.

Vogel, Wm. & Bros., 37 S 9th, Brooklyn, N. Y.

WILSON, F. CORTEZ & CO., 239 Lake, Chicago, Ill. (See adv. index, end of book)

Oilers (Loose Pulley)

Butler Chuck Co. ("Graves"), Greenfield, Mass.
 Herring-McGinty, W. C. Co., Mansfield, O. ("Perfect")

Loneragan, J. E. & Co., 211 Race, Phila., Pa.

LUNKENHEIMER CO., General Office & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

SWAIN LUBRICATOR CO. ("Swain"), cor. Lake & S Water, Chicago, Ill. See adv. index, end of book

Van Dusen, E. W. Co., 428 E 2d, Cinn., O.

Oilers (Mowing Machine)

Akron Mfg. Co., Akron, O.

Dover Stamping & Mfg. Co., Cambridge, Mass.

Gem Mfg. Co. ("Gem"), Pittsburg, Pa.

Geuber & Paeschke Mfg. Co., Milwaukee, Wis.

Maple City Mfg. Co. ("Howland" Pump Oilers, etc.), Monmouth, Ill.

Nilson-Walters Wrench Co. ("Daisy" Spring Bottom, Tin & Coppered), Casselton, N. Dak.

Noera Mfg. Co. ("Noera"), Waterbury, Conn.

Troy Stamping Works, Troy, N. Y.

Vogel, Wm. & Bros., 37 S 9th, Brooklyn, N. Y.

***Oilers (Multiple)**

LUNKENHEIMER CO., General Office & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

***Oilers (Shafting)**

SWAIN LUBRICATOR CO. ("Swain"), cor. Lake & S Water, Chicago, Ill. See adv. index, end of book

Oilers (Spring)

American Tube & Stamping Co., Bridgeport, Conn.

Gem Mfg. Co., Pittsburg, Pa.

Hammer & Co., Brandford, Conn.

Republic Metal Co., Buffalo, N. Y.

Tower & Lyon Co., 95 Chambers, N. Y.

Oilers (Windmill)

Red Cross Mfg. Co. (Automatic), Bluffton, Ind.

Oiling Sets (Engineers')

Akron Mfg. Co. ("Maranville"), Akron, O.

American Tube & Stamping Co. ("Copperized" & Nickel Plated), Bridgeport, Conn.

Consolidated Fruit Jar Co. ("Paragon"), New Brunswick, N. J.

Deverall Perfection Mfg. Co. ("Perfection"), Coney Island av & Johnson pl, Brooklyn, N. Y.

Knapp Mfg. Co., 24 Frankfort, New York

Noera Mfg. Co. ("Noera" Steel, Copper Plated), Waterbury, Conn.

Vogel, Wm. & Bros. ("Chase"), Brooklyn, N. Y.

WILSON, F. CORTEZ & CO., 239 Lake, Chicago, Ill. (See adv. index, end of book)

Oils (Aniline)

Armitage Mfg. Co., Richmond, Va.

Oils (Bicycle & Sewing Machine)

Nye, Wm. F., New Bedford, Mass.
 Union Petroleum Co., 135 S 2d, Phila., Pa.

Oils (Core)

Mills, C. E. Oil Co., Syracuse, N. Y.
 Sterling Oil Co. ("Sterling"), Emlenton, Pa.

Oils (Creosote)

Armitage Mfg. Co., Richmond, Va.
 Barrett Mfg. Co., Land Title bldg., Philadelphia, Pa.

Buchanan-Foster Co., Drexel Bldg., Phila., Pa.
 Georgia Pine Turpentine Co. of N. Y., 158 Perry, New York

Lewis Roofing Co., Rock Island, Ill.

Martin, L. & Wilkes Co., 135 William, New York

McClintock & Irvine Co., Neville & P. R. R., Pittsburg, Pa.

Walker-Cromwell Co., Kearny, N. J.

Oils (Cutting & Polishing)

Houghton, E. F. & Co., 240 W. Somerset, Phila., Pa.

Oils (Cycle)

National Cement & Rubber Mfg. Co. ("Oiline" & "Verybest"), Toledo, O.

Oils (Cylinder)

(See Lubricating Oils & Greases)

Oils (Drilling)

Houghton, E. F. & Co., 240 Somerset, Philadelphia, Pa.

Oils (Harness)

Miller, Frank Co., 349 W 26th, New York

Oils (Headlight)

Crystal Oil Refining Co., Willey st, Cleveland, O.

Oils (Japan)

Sipe, Jas. B. & Co., Allegheny, Pa.

Oils (Lawn Mower)

Supplee Hardware Co. ("Pennsylvania"), 503 Market, Phila., Pa.

Oils (Linseed)

(See Linseed Oil & Cake Mills.)

Oils (Lubricating)

(See Lubricating Oils & Greases.)

Oils (Lustre)

Houghton, E. F. & Co. (For Velvet & Plush Mfrs.), 240 Somerset, Phila., Pa.

Oils (Paint)

Fort Pitt Oil & Paint Co., 3208 Penn av, Pittsburg, Pa.

Oils (Rosin)

Casey, Jno. A. Co., 144 Maiden la, New York

Magnus & Lauer, 257 Pearl, New York

Standard Naval Stores Co., Jacksonville, Fla.

Shotter, S. P. Co. (Crude & Refined), Savannah, Ga.

Willcox-Ives Oil Co., Savannah, Ga.

Oils (Shingle Stain)

Georgia Pine Turpentine Co. of N. Y., 158 Perry, New York

Oils (Tar)

Georgia Pine Turpentine Co. of N. Y., 158 Perry, New York

Oils (Tempering)

Houghton, E. F. & Co., 240 W. Somerset, Philadelphia, Pa.
 Osborn-Colwell Co., 40 Cliff, New York

Old Metals

(See Scrap Iron & Steel)

Onyx Importers

Grace, Wm., 120 Front, New York
 Jackson, C. D., 105th & E. R., New York
BOCKMAN, A. E., 1265-9 B'way, New York. (See adv. index, end of book)

Onyx Workers

BATTERSON & EISELE, Main Office & Works, Edgewater, N. J., & Times bldg, 42d st, New York. (See adv. index, end of book)

Christa, Phillip & Sons, 508 Lafayette av, Detroit, Mich.

Empire City Marble Co., 250 11th av, New York
 Fischer, Robert C. Co., E 139th & Locust av, New York

Lautz & Co., 861 Main, Buffalo, N. Y.

McGratty & Sons, 315 to 335 Butler, Brooklyn, N. Y.

New Pedrora Mexican Onyx Co. (Workers & Producers), San Diego, Cal.

Pickel Marble & Granite Co., 1901 N B'way, St. Louis, Mo.

Openers (Box)

American Cutlery Co. (Steel Nickel-Plated Cigar Box, etc.), 193 Mather, Chicago, Ill.

ARCADE MFG. CO., Freeport, Ill. (See adv. index, end of book)

Duffy Mfg. Co., 125 Indiana, Chicago, Ill.

National Selling Co. (Also Cigar Box), Allentown, Pa.

Vaughn & Bushnell Mfg. Co. ("V. & B." for Shoe Dealers, etc.), Chicago, Ill.

Openers (Can)

(See Can Openers.)

Openers (Cigar Box)

American Cutlery Co., 193 Mather, Chicago, Ill.
 Johnson, Wm. (Hedenberg Works), Newark, N. J.
 National Selling Co., Allentown, Pa.

Openers (Letter)

American Cutlery Co., 191 Mather, Chicago, Ill.
 National Cutlery Co. (Nickel Steel), Westmoreland & Boudinot, Phila., Pa.

Opera Chairs & Assembly Seating

Allen, Thompson L. Whitney Co., 112 Canal, Boston, Mass.

American School Furniture Co., 21 W 18th, New York

ANDREWS, A. H. CO., 174 Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)

Choate, W. A. Co., 24 State, Albany, N. Y.

Cincinnati Seating Co., Vine & 6th, Cincinnati, O.

Columbus School Desk Co., Columbus, Ga.

Galpen, R. H., 114 5th av, New York

Grand Rapids Furniture Mfg. Co., Grand Rapids, Mich.

Moore Mfg. Co., Springfield, Mo.

Readsboro Chair Mfg. Co., Readsboro, Vt.

Sander, J. M. & Co., Marietta, Pa.

STAFFORD, E. H. MFG. CO., 262 Wabash av, Chicago, Ill. (See adv. index, end of book)

Ore (Chrome)

Harbison-Walker Refractories Co., Frames, Bank bldg, Pittsburg, Pa., & 1133 B'way, N. Y.

LEAVITT, C. W. & CO., 222 B'way, New York. (See adv. index, end of book)

Ore Concentration

Rittenhouse Gap Concentrating Co., Fullerton, Pa.

Ore Concentrators

(See Concentrators, Ore)

Ore Conveyors

(See Conveyors, Coal)

*Ore (Garnet)

LEAVITT, C. W. & CO., 222 B'way, New York. (See adv. index, end of book)

*Ores (Iron)

Carrigan, McKinney & Co., Perry-Payne bldg, Cleveland, O.

Lake Erie Ore Co., Rockefeller bldg, Cleveland, O.

LEAVITT, C. W. & CO. (Agents), 222 B'way, New York. (See adv. index, end of book)

Tod-Stambaugh & Co. (Selling Agents), Perry-Payne bldg, Cleveland, O.

Ore (Manganese)

Dana & Co., 32 B'way, N. Y.
Doggett, Stanley (Mfrs.' Agt.), 101 Beekman, New York

Kendall & Flick, Washington, D. C.

LEAVITT, C. W. CO. (& Chrome), 222 B'way, New York. (See adv. index, end of book)

Stanley's Creek Manganese & Iron Co. (Miners), Marion, Va.

Southern Manganese & Steel Co., Cave Spring, Ga., & Prudential bldg, Atlanta, Ga.

Tennant & Sons Co., 76 William, New York

Ore Trestles & Tipples (Steel)

(See Tipples Mine)

Ore & Coal Buckets

(See Buckets, Ore & Coal.)

*Ore & Water Skips & Buckets

WELLMAN-SEEVER-MORGAN CO., Cleveland, O., & Akron, O. (See adv. index, end of book)

*Organ Builders (Automatic)

AUSTIN ORGAN CO., Hartford, Conn. (See adv. index, end of book)

Organ Motors

(See Motors, Organ.)

Organs (Church)

AUSTIN ORGAN CO., Hartford, Conn. (See adv. index, end of book)

Bates & Culley, 706 Mercy, Philadelphia, Pa.

Burlington Pipe Organ Co., Burlington, Iowa.

Cole Church Organ Co., 99 Bristol, Boston.

Estey Organ Co., Brattleboro, Vt.

Farrand Organ Co., 248 Woodward av, Detroit, Mich.

Felgemaker, A. B. Erie Organ Co., Erie, Pa.

Hall, H. & Co. (Pipe Organs), New Haven, Conn.

Hillgreen, Lane & Co., Alliance, O.

Howard, Emons, Westfield, Mass.

Hutchins-Votey Organ Co., Albany & Pacific, Cambridge, Mass.

Kimball, W. W. Co., Wabash av & Jackson boul, Chicago

Niemann, Henry, 655 W Lombard, Baltimore, Md.

Odell, J. H. & C. S. & Co., 409 W 42d, N. Y.

Schuelke, Wm. Organ Co., Milwaukee, Wis.

Stein, Adam, 668 W German, Baltimore, Md.

Viner & Son, 30 Lansing, Buffalo, N. Y.

Votey Organ Co., 362 5th av, New York

Woodberry, Jesse & Co., 520 Harrison av, Boston, Mass.

Organs (Military Band)

Parker, C. W., Abilene, Kan.

*Oriental Rugs

DECORATIVE ARTS CO., 527 5th av, New York. (See adv. index, end of book)

*Ornaments (Cast Iron)

BETHLEHEM FOUNDRY & MACHINE Co. (for Builders' Iron Work), Front, South Bethlehem, Pa., & 149 B'way, New York. (See adv. index, end of book)

Ornaments (Composition)

ARCHITECTURAL DECORATING CO., 643 S Jefferson, Chicago, Ill. (See adv. index, end of book)

Beattie Mfg. Co., 2202 Pinc, St. Louis, Mo.

Buehner, A. & Co., 220 N 2d, St. Louis, Mo.

DECORATORS' SUPPLY CO., Archer av. & Leo, Chicago, Ill. (See adv. index, end of book)

Dittgen & Rapp, Spencer av, Norwood, O.

Eastman & Johnstone Mfg. Co., 1711 St. Charles, St. Louis, Mo.

EMMEL, CHAS. (Papier Mache Compo Staff, Plaster, etc.), 383 Albany, Boston, Mass. (See adv. index & branch offices, end of book)

Forman Bros., 645 Gates av, Brooklyn, N. Y.

Gossert, Henry, 320 Harmony, Phila., Pa.

Harsha, L. R. Mfg. Co., 793 Carroll av, Chicago, Ill.

Hartmann, John, 13 N Jefferson, Chicago

Hutton & Sarsl, 519 W 21st, New York

Jennens, W. Mfg. Co., 1700 Wyandotte, Kansas City, Mo.

Lang, H. R. & Co., Ft. Wayne, Ind.

Lombard, A. P. & Co., 99 Bristol, Boston, Mass.

McCune, Alex., 233 N 23d, Phila., Pa.

Meislahn, C. F. & Co., 19 Clay, Baltimore, Md.

Newcomb, F. J., Mfg. Co., 44 W 13th, N. Y.

Parker, Wm., 324 7th av, New York

Plastic Relief Mfg. Co., 298 N Halsted, Chicago, Ill.

Raubold & Lambin, 19 N Ann, Chicago

Rockford Ornament Co., Rockford, Ill.

Root, C. R., 104 Asylum, Hartford, Conn.

Rudolph, Oscar (Inc.), 32 E 22d, New York

Schneider, F. H., 120 Burnet, Syracuse, N. Y.

Schuelke, Wm. Organ Co., 2219 Walnut, Milwaukee, Wis.

SEIFERT, FRANK A., PLASTIC Relief Co., 2646 Lawton av, St. Louis, Mo. (See adv. index, end of book)

Walter, G. E. Co., 157 E 44th, New York

Weary, Edwin D., First National Bank bldg, Chicago, Ill.

White, Potter & Paige Mfg. Co., 415 Willoughby av, Brooklyn, N. Y.

White & Maslen, 627 12th, Detroit, Mich.

Whitman, J. Franklin Co., 212 S 5th, Phila., Pa.

*Ornaments (Gable)

BERGER MFG. CO., Main Office & Works, Canton, O. (See adv. index & branch offices, end of book)

EDWARDS MFG. CO., Eggleston av, bet. 4th & 5th, Cincinnati, O. (See adv. index & branch offices, end of book)

Ornaments (Plastic)

ARCHITECTURAL DECORATING CO., 643 S Jefferson, Chicago, Ill. (See adv. index, end of book)

Bailey Co., 224 21st, Detroit, Mich.

Berger, H. Sons, 101 4th av, N. Y.

Betskouskie, Martin F., 451 E 5th, Los Angeles, Cal.

Buehner, A. & Co., 220 N 2d, St. Louis, Mo.

CROOK, W. T., 1133 B'way, New York. (See adv. index, end of book)

Cincinnati Plastic Relief Co., Madisonville, Ohio

DECORATORS' SUPPLY CO., Archer av & Leo, Chicago, Ill. (See adv. index, end of book)

DePlanque, F. R. & Son, 1349 Ridge av, Phila., Pa.

Dini, Geo. L., 497 Atlantic av, Brooklyn, N. Y.

Eastman & Johnstone Mfg. Co., 1711 St. Charles, St. Louis, Mo.

EMMEL, CHAS., 383 Albany, Boston, Mass. (See adv. index & branch offices, end of book)

Farley, Wm. E. & Bro., 3635 Market, Phila., Pa.

Forman Bros., 645 Gates av, Brooklyn, N. Y.

Hanisch, Ad. (Stucco), Syracuse, N. Y.

Heath, Thos., 42 N 11th, Phila., Pa.

Klee, Thomson Co., 327 E 40th, New York

Lang, H. R. & Co., Ft. Wayne, Ind.

Marks, W. A. Plaster Ornamental Mfg. Co., 726 W 5th, Cincinnati, O.

Plastic Relief Mfg. Co., 298 N Halsted, Chicago, Ill.

Prior, Jas. V., 288 Washington, Newark, N. J.

Root, C. R., 104 Asylum, Hartford, Conn.

Schneider, F. H., 120 Burnet, Syracuse, N. Y.

SEIFERT, FRANK A., PLASTIC Relief Co., 2646 Lawton av, St. Louis, Mo. (See adv. index, end of book)

Trapp, John B., Peoria, Ill.

Walter, G. E. Co., 157 E 44th, New York

Wilhelm, Florintine Co., Madisonville, O.

*Ornaments (Pressed Steel)

WORCESTER PRESSED STEEL CO. (Successors to Worcester Ferrule & Mfg. Co., Worcester, Mass. (See adv. index, end of book)

Ornaments (Sheet Metal)

Broschart & Braum, 601 W 130th, N. Y.

EDWARDS MFG. CO., Eggleston av, bet. 4th & 5th, Cincinnati, O. (See adv. index & branch offices, end of book)

Frard & Co., Camden, N. J.

FRIEDLEY-VOSHARDT CO. (Inc.), 194 Mather, Chicago, Ill. (See adv. index, end of book)

Gara, McGinley & Co., 23 S 17th, Phila., Pa.

Gerock Bros. Mfg. Co., 1252 Manchester av, St. Louis, Mo.

Hergert, Theo. E. (for Cornices, etc.), 384 2d av, New York

KELLEY, WM. J., 448 Adelphi, Brooklyn, N. Y.

Michigan Hdw. Mfg. Co., Grand Rapids, Mich.

Miller & Doing, 83 Wash'n, Brooklyn, N. Y.

MILWAUKEE CORRUGATING CO., Milwaukee, Wis. (See adv. index, end of book)

MULLINS, W. H. CO., Salem, O. (See adv. index, end of book)

Penn Metal Ceiling & Roofing Co., 23d & Hamilton, Phila., Pa.

Pruden, C. D. Co., Warner & Dock, Baltimore.

Rulofson, A. C. Co., San Francisco, Cal.

St. Paul Roofing, Cornice & Ornament Co., St. Paul, Minn.

Thoresen, Wm., 816 N Western av, Chicago

THORN, J. S. CO., 20th & Allegheny av, Phila., Pa. (See adv. index, end of book)

Twinco Stamping Works, Rome, N. Y.

*Ornaments (Steel)

BRAUN, J. G. (for Ornamental Iron Work), 322 S Paulina, Chicago, Ill., & 537 W 35th, New York. (See adv. index, end of book)

Ornaments (Transfer)

Meyercord Co., Inc. ("Decalcomania"), Chicago, Ill., Cham. of Commerce.

National Decalcomania Co., Philadelphia, Pa.

Palm Bros. & Co., 316 Main, Cincinnati, O.

Palm-Fechteler & Co., 80 5th av, New York

Stang Co., 30 Lafayette pl, New York

U. S. Decalcomania Co., 152 Lake, Chicago, Ill.

Ornaments (Wood)

Curtis Bros. & Co. (For the Trade Only), Clinton, Iowa

Curtis & Bartlett Co. (For the Trade Only), Lincoln, Neb.

Foster-Munger Co. (For the Trade Only), W 20th & S Sagamon, Chicago

Gauger, Jno. A. & Co. (For the Trade Only), W 22d & Laffin, Chicago

Gould Mfg. Co. (For the Trade Only), Oshkosh, Wis.

Grand Rapids Carved Moulding Co., Grand Rapids, Mich.

Hake, Chas. W. Mfg. Co., Grand Rapids, Mich.

Harris & Cole Bros. (For the Trade Only), Cedar Falls, Ia., & Columbia, Tenn.

Heidenreich, Geo. E., 268 Erie, Cleveland, O.

Hyde-Murphy Co., Ridgway, Pa.

Lidell, Wm. C., 597 Austin av, Chicago, Ill.

McMillen, R. Co. (For the Trade Only), Oshkosh, Wis.

Michigan Toy & Novelty Co. (Rosettes & Turned Specialties), Holland, Mich.

Morgan Co. (For the Trade Only), Oshkosh, Wis., & W 22d & S Union, Chicago

New York Carved Moulding Co., 139th & Rider av, New York

Ohio Scroll & Lbr. Co., Covington, Ky.

Paine Lumber Co. (For the Trade Only), Oshkosh, Wis.
 Palmer, Fuller & Co. (For the Trade Only), 2244 Lumber, Chicago
 Parker, Edwin C., 519 W. 30th, N. Y.
 Peirce, W. E. & Co., Milford, N. H.
 Roberts, E. L. & Co. (For the Trade Only), 22d & Union pl, Chicago
 Rowe, Henry Mfg. Co. (Rosettes, Carvings, etc.), Newaygo, Mich.
 Spanjer Bros., Newark, N. J.
STEARNS, A. T. LUMBER CO., Neponset, Boston, Mass. (See adv. index, end of book)
 Waddell Mfg. Co. (Rosettes, Carved, Grilles, etc.), Grand Rapids, Mich.

Ornaments & Figures (Iron)

(See Fountains, Vases, etc.)

*Oscillographs

GENERAL ELECTRIC CO., Schenectady, N. Y., & 44 Broad, New York. (See adv. index & branch offices, end of book)

*Out Door Memorials

DECORATIVE ARTS CO., 527 5th av., New York (See adv. index, end of book)

Outriggers (Arc Lamp)

Cutter, Geo. Co., 129 Fulton, New York
 Western Electric Co., 259 S. Clinton, Chicago, Ill., & 57 Bethune, N. Y.

*"O. V. C." Clothes Line Bracket

OVICI, S. I. & CO. (Sole Agents), 401 B'way, New York. (See insert opp. page 232)

Oven Builders (Brick & Portable)

Albrecht, Francis J. (Brick, Inside Heating, also Continuous), 1146 Penn av., Pittsburgh, Pa.
 Barber & Turner (Brick & Portable), 429 N Orianna, Phila., Pa.
 Blendinger, Fred'k A. (Brick), 824 O'Hara, Allegheny, Pa.
 Blodgett & Co. (Portable), Burlington, Vt.
 Bulirrop Oven Co. (Brick), New York city
 Carroll, B. F. (Brick), Joliet, Ill.
 Clad, V. & Sons, Inc. (Portable), 117 S 11th, Phila., Pa.
 Fish, A. J. & Co. (Brick), 39 S Franklin, Chicago
 Hall, S. L. & Co. (Brick), 156 E 18th, Chicago
 Hilcher, Chas. G. (Brick), 3839 State, Chicago
 Hilcher, Edw. P. (Brick), 192 Larrabee, Chicago
 Hubbard Portable Oven Co. (Portable), 114 Michigan, Chicago, & 260 W Broadway, New York
 Ila, John G. & Co., San Francisco, Cal.
 Indiana Cracker Machine Co. (Portable), Chicago, Ill.

King, B. F., 576 E 146th, New York
 Kosicky, W. (Brick), Detroit, Mich.
 McDowell Oven Co. (Portable), 234 State, Boston
 Middleby, Jos. (Portable), 204 State, Detroit, Mich.

Middleby Oven Mfg. Co. (Portable), 60 W Van Buren, Chicago
 Moon, Geo. R. (Portable), 561 Short av, Columbus, O.

Pearson, Harry (Portable), 60 Causway, Boston
 Petersen, Edw. (Brick), 1210 Wrightwood av, Chicago

Reid Portable Oven Co. (Portable), 14 Palace Arcade, Buffalo, N. Y.
 Roth, McMahon Co. (Portable), Evanston, Chicago

Schaller Patent Bake Oven Co. (Brick), Pike bldg, Cincinnati, O.

Schubert, Chas. A., 501 E 75th, New York
 Simpkins, Alvin T. (Brick & Portable), 2731 Bacon, St. Louis, Mo.

Varney Heating & Mfg. Co. ("Revolving Reel"), Leavenworth, Kansas.

Vroom Bros., 59 Exchange, Lowell, Mass.
 Watkins, James Y. & Son, 16 Catharine, New York

Weiner & Meufs (Portable), Cleveland, O.
 Werner & Pfleiderer (Steam Pipe Draw Plates), Saginaw, Mich.

Western Middleby Oven Co. (Portable), San Francisco, Cal.

Willey, Albert (Portable), 325 Dearborn, Chicago, Ill.

Ovens (Bread)

Vici Machinery Co. ("Standard" Crustless), 42 B'way, New York

Ovens (Core)

BEST, W. N. AMERICAN CALORIFIC Co., 11 B'way, New York. (See adv. index, end of book)

Brass Founders Supply Co. (For Brass Fdrs.), Byram & Co., Detroit, Mich. Newark, N. J.

DODGE MFG. CO. (Square & Rotary), Mishawaka, Ind. (See adv. index & branch offices, end of book)

KOVEN, L. O. & BRO., 50 Cliff, New York. (See adv. index, end of book)

Millett Core Oven Co., Springfield, Mass.
OSBORN MFG. CO., 5401 Hamilton av, N. E., Cleveland, O. (See adv. index, end of book)

Paxson, J. W. Co., 1021 N. Del. av., Phila., Pa.
 Co., 1581 Columbus rd., N. W., Cleveland, O.

WHITING FOUNDRY & EQUIPMENT Co., Harvey, Ill. (See adv. index & branch offices, end of book)

Ovens (Core Baking)

BEST, W. N. AMERICAN CALORIFIC Co., B'way, New York (See adv. index, end of book)

Blodgett, G. S. Company (Portable, Galvanized Iron), Burlington, Vt.

KOVEN, L. O. & BRO., 50 Cliff, New York (See adv. index, end of book)

Ovens (Electric)

International Instrument Co., 23 Church, Cambridge, Mass.

Ovens (Enameling)

American Enamel Co., Providence, R. I.
 Blodgett, G. S., Company (Portable, Galvanized Iron), Burlington, Vt.

KOVEN, L. O. & BRO., 50 Cliff, New York (See adv. index, end of book)

National Cement & Rubber Mfg. Co., Toledo, O.
 Steiner, Emil E. (Heated by Gas), Newark, N. J.

Turner Brass Works (Galvanized Iron, Portable), 66 Michigan, Chicago, Ill.

Van Dorn Iron Works Co. (Japan), Cleveland, O.
 Westmacott, J. M. Co. (Drying or Baking), 159 Orange, Providence, R. I.

Ovens (Japanning or Baking)

Blodgett, G. S., Company (Portable, Galvanized Iron), Burlington, Vt.

KOVEN, L. O. & BRO., 50 Cliff, New York (See adv. index, end of book)

Oven Equipment & Mfg. Co. (Sectional Ovens & Gas Burners), Stamford, Conn.

Steiner, Emil E., (Heated by Gas), Newark, N. J.

Turner Brass Works, 66 Michigan, Chicago, Ill.

Overhead Tracking

(See Trolley Tracks.)

*Oxide (Iron)

LEAVITT, C. W. & CO., 222 B'way, New York (See adv. index, end of book)

Oxide of Lead

Davis Lead Co., Park bldg., Pittsburg, Pa.
 Doggett, Stanley (Mfrs. Agt.), 101 Beekman, New York

National Lead Co. (for Glass, Rubber, Color & Varnish, Makers, etc.), 100 Williams, New York

Oxide of Zinc

Doggett, Stanley (Mfrs. Agt.), 101 Beekman, New York

Gabriel & Schall, 205 Pearl, New York
 Mallinckrodt Chemical Works, St. Louis, Mo., & 90 William, New York

Mineral Point Zinc Co., 204 Dearborn, Chicago, Ill. Wks., Mineral Point, Wis.

New Jersey Zinc Co., 71 B'way, New York

Packers (Cement)

Barnard & Leas Mfg. Co. ("Hercules"), Moline, Ill.

Howes, S. Co. ("Iron King," Automatic Friction Drive), Silver Creek, N. Y.

SMOOTH-ON MFG. CO. ("Smooth-On"), 572 Communipaw av, Jersey City, N. J. (See adv. index & branch offices, end of book)

Packers (Flour, Bran & Feed)

(See Packing Machines; also Bagging Machines)

Packers (Oil Well)

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)

Diamond Rubber Co., Akron, O.
 Dresser, S. R., Bradford, Pa.
 Lake Shore Rubber Co., Erie, Pa.

McElwaine Co., Bradford, Pa.
 Morgan & Wright (Inc.) (Rubber), 226 Jefferson av, Detroit, Mich.

OIL WELL SUPPLY CO., 215 Water, Pittsburg, Pa. (See adv. index, end of book)

Packers (Shingle)

DeLoach Mill Mfg. Co., Atlanta, Ga.
 Diamond Iron Works, Minneapolis, Minn.

LANE MFG. CO., Montpelier, Vt. (See adv. index, end of book)
 Mitts & Merrill, Saginaw, Mich.
 Trevor Mfg. Co., Lockport, N. Y.

Packing (Asbestos)

Alliance Asbestos Mfg. Co. (Plain, Braided, Wound Cloth & Sheet), Alliance, O.

AMERICAN-GOETZE GASKET & Packing Co. ("Goetzerit"), 725 E. 141st st, New York. (See adv. index, end of book)

ASBESTOS & MAGNESIA MFG. CO., Phila., Pa. (See adv. index, end of book)

Crandall Packing Co., Palmyra, N. Y.; 136 Liberty, New York, & 52 W. Washington, Chicago, Ill.

Johns, H. W.-Manville Co. ("Kersarge," "Asbestos Metallic Sheet") 100 William, New York

Keystone Asbestos Magnesia Co., Fulton bldg, Pittsburg, Pa.

New York Asbestos Mfg. Co., 80 John, New York

STRONG MACHINERY & SUPPLY CO. ("Strong's") Tisafine & Grapho Asbestos Valve & Piston & Sheet, 48 Franklin, New York. (See adv. index, end of book)

WATSON, H. F. CO., Erie, Pa. (See adv. index & branch offices, end of book)

Wing, J. T. & Co., 19 Woodward, Detroit, Mich.

Packing Box Mfrs.

CALIFORNIA.

CANTARA—California Box & Door Co.
SAN FRANCISCO—American Box Factory (Inc.), 815 Brannan

California Pine Box & Lumber Co., Bialto bldg

Columbus Box Factory, Beach nr Mason
 Mercantile Box Co.

National Box Factory
 Pacific Box Factory
 Shasta Box Mercantile Co.
 Standard Box Co.

COLORADO.

DENVER—Colorado Box & Crate Co.
 Denver Crate & Box Co.

Hallock & Howard Lumber Co.

GEORGIA.

TIFTON—Provident Lumber Co.

CONNECTICUT.

BRIDGEPORT—Hoffman, H. C. & Co.
HARTFORD—Rockwell, John W.

NEW HAVEN—Brett, Edward P.
 Hubbell & Merwin Co.

McLean, Andrew
 Morton Bros. & White Co.
 Sperry & Amos Co.

ILLINOIS.

CHICAGO—Acme Box Co., 306 S Clinton
 Chicago Packing Box Co., of Illinois, 350 N Sangamon

Goodwillie Bros. (also Wausau, Wis.), New York Life bldg

Goodwillie, D. M. Co., W 22d & Centre av

Illinois Packing Case Co., 687 Fulton
Maxwell Bros. Co., Loomis c W 21st
Paepcke-Leicht Lumber Co., Tribune bldg
Rathbone, Hair & Rldgway Co., Union &
Soper Box Co., 723 Ladin Lumber
Tegtmeier, Charles W., 759 Canal
SPRINGFIELD—Abbott Bros.

INDIANA.

INDIANAPOLIS—Ballwey & Co.
Dietz, Fred Co.

IOWA.

BURLINGTON—Thrd Street Box Co.
CLINTON—Smith, F. & Son
KEOKUK—Carter, S. C. & S. Co.

KENTUCKY.

COVINGTON—Acme Box & Shook Co.
LOUISVILLE—Bell & Coggeshall Co.
Mengel Box Co.
Tyler Box Co.
MAYFIELD—Mayfield Planing Co.

MISSISSIPPI.

LAMBERT—Bell & Coggeshall Co.

LOUISIANA.

NEW ORLEANS—Alcus, S. T. & Co. (Ltd.)
Bates & McAvoy Box Co. (Ltd.)
Central Mfg. & Lumber Co.
Flewrichamp, Emile L.
Hasam's Box Factory & Planing Mill
Pelican Box Factory

MAINE.

AUBURN—Conant, F. R. & Co.
Hutchins, H. Wesley Co.
Union Box & Lumber Co.
BANGOR—Walker, James & Co.
BIDDEFORD—Deering-Proctor Box Co.
BREWER—Smith Planing Mill Co.
BRIGHTON—Brighton Mfg. Co.
BRUNSWICK—Brunswick Box Co.
CHERRYFIELD—Wilson, E. K.
GARDINER—Glidden Bros.
PORTLAND—Brackett, J. L.
SACO—Crossman, G. A. & Sons

MARYLAND.

BALTIMORE—Becker Bros. & Sons, Lex'n &
Canton Box Co., 2215 Boston Fkd
Dorsey Lumber Co., Highland av & Phila.
Dreyer, H. D. & Co., 713 E Lombard
Duker, J. H. Box Co., 1401 Cauton av
Fortenbaugh, Charles, 636 W Pratt
Heise, H. & Co., 604 Portland
Radecke & Louis, 117 W Cross
Rittler Box Co. (Inc.), 621 S Caroline
Schmuck, Fressman & Co., 1816 Lancaster
Schulze Mfg. Co., 15 N Sharp
Smith, Geo. W. Box Co., Aliceanna & Cen-
tral av
Thiemeyer, J. H. Co. (Inc.), 901 S Caroline
Wheatfield, Jacob, 1239 Columbia av

MASSACHUSETTS.

ACUSHNET—Acushnet Saw Mill Co.
AMHERST—Angus & Seitz
ANDOVER—Hardy & Cole
BEVERLY—Copp, A. W. & Co.
Frost Box Co.
BOSTON—Booth, J. R., 88 Broad
Le Baron, S. T., 135 Border, E. B.
Manwell, F. P. & Co., 190 A
N. E. Box Co., 221 Columbus av
Snow, Abbott L., 406 Border, E. B.
BROCKTON—Bonney, E. L.
Woodbridge, F. L.
CAMBRIDGE—Page, Geo. G. Box Co.
CHELSEA—Atwood & McManus
Parsons Mfg. Co.
CONWAY—Flagg, C. C. & Son
DANVERS—Derry, Fred J.
ENFIELD—Woods & Ward
FALL RIVER—Lunan, J. & Son
Varney, Isaac & Sons Co.
FITCHBURG—Cook, Ornan S.
Garno, W. A. Co.
Priest, C. A. Lumber Co.
FOXBORO—Dix, J. M. & Co.
Pond, Virgil S. & Co.

GEORGETOWN—Hardy, W. C.
GLOUCESTER—Merchant Box & Cooperage Co.
Perkins, Geo. H. & Son
GREENFIELD—New England Box Co.
HALIFAX—Bosworth, Henry M.
HAVERHILL—Haverhill Box Co.
Hayes, C. H. Corporation
Owens, John & Co.
Tapley, I. W.
BRADFORD—Island Park Co.
HOLYOKE—Merrick Lumber Co.
HUDSON—Tripp, N. G.
LAWRENCE—Pingree, D. W. Co.
LOWELL—Allen, Otis & Son
Cady, Geo. L. & Sons
Cheney, Frank P.
Cummings, F. G.
Davis & Sargent Lumber Co.
Greenfield Box Co.
Thompson, James A.
MALDEN—Vaughan, S. E.
MEDWAY—Medway Box Co.
MIDDLEBORO—Clark & Cole Co.
NATICK—Natick Box Co.
NORTH ADAMS—Dibble, S. B. Lumber Co.
NORTON—Sweet, A. H. & Son
PETERSHAM—Carter, J. A.
READING—Symonds, O. P. & Sons
ROCKLAND—Studley, Glendon
SALEM—Irving, W. A.
SOUTHBRIDGE—Clemence, J. M. & L. D.
Ide Lumber Co.
SPRINGFIELD—West, F. M. Box Co.
WEST BOYLSTON—Lowe & Flagg
WESTFIELD—Sturtevant & McCarthy
WHITMAN—Slack, Chas. P.
WILLIAMSBURG—Bradford, G. M.
WORCESTER—Baker Box Co.
Williams & Bridges Co.

MICHIGAN.

BAY CITY—Bay City Box & Lumber Co.
Biudner, J. F. Box Co.
Handy Bros., Station A.
Vance, E. J. Co.
DETROIT—Backus, A., Jr., & Sons
Beyster, John
Central Lumber Co.
Detroit Box Co.
Grigg, Wm. H.
Restrick, Chas. W.
Weber, J. F. & Co.
Wolverine Lumber & Box Co.
Yeomans Lumber & Box Co.
GRAND RAPIDS—Dupree, John & Co.
Fuller & Rice Lumber & Mfg. Co. (Inc.)
MARQUETTE—Read, F. W. & Co.
MENOMONEE—Crawford Mfg. Co.
Fisher & Hutchenson
Peninsular Box & Lumber Co.
SAGINAW—Mershon, Schuette, Parker & Co.

MINNESOTA.

DULUTH—Duluth Box & Mfg. Co.
Petruschke, C. J.
Rieckhoff, W. H. Co. (New Duluth)
Wallander, E. G.
MINNEAPOLIS—Bolton Lath & Shingle Ma-
chine Co.
Coffin's Box & Lumber Co.
Smith, C. A. Lumber Co.
ST. PAUL—Minnesota Box Co.
Osgood & Blodgett Mfg. Co.
Villaume Box & Lumber Co.
Ward, C. E.

MISSOURI.

KANSAS CITY—Chapman & Dewey Lumber Co.
Forrester-Nace Box Co.
Inman Box Co.
United Box Mfg. Co.
ST. LOUIS—Alt Box Mfg. Co., 305 N Main
Columbia Box Co., 19th & N Market
Excelsior Box & Mfg. Co., 2805 N 12th
Fehlig Bros. Box Mfg. Co., 1909 Wash'n
Gaus, Henry & Sons Mfg. Co., 2100 N Main
Goessling, Wm. F. Box Co., Blair av & Mul-
lanphy
Heibel, P. & Sons Co., 1505 S 2d
Loy-Lange Box & Lumber Co.
Mengel Box Co., Folsom av & Lawrence
Mound City Box Factory, 1060 Old Man-
chester rd
New England Box Co. (See Massachusetts)
Olcott, Chas. A. Planing Mill Co., 3300 N
B'way
Phoenix Planing Mill Co., 12th & Spruce
Poorman, H. B. Box Mfg. Co., 929 N 2d
Sheridan & Sons, 1940 Cass av
St. Louis Box Factory, 721 S 2d
Woods & Down, Mullanphy & 13th

NEVADA.

RENO—Nevada Planing Mills Co.

NEW HAMPSHIRE.

EAST JAFFREY—Stalton, C. L.
KEENE—Fowler, H. J.
Norwood, Chas. M. & Son
Reed, J. Mason (Est. of)
LEBANON—Mason, J. S. & Co.
LISBON—Parker & Young
MANCHESTER—Fellows & Son
Hodge, Jeremiah
Smith Box & Lumber Co.
West Side Lumber Co.
MILFORD—Pelree, W. E. & Co.
NASHUA—American Box & Lumber Co.
STATE LINE—Lamon, Walter S.
TROY—Whitcomb, O. C. & Co.

NEW JERSEY.

CAMDEN—Coles, C. B. & Sons Co.
JERSEY CITY—Dodge & Bliss
Vauderbeck & Sons
NEWARK—Doolittle, Henry N.
Neary, J. J. Box & Lumber Co.
Ripley, David & Sons Lumber & Timber Co.
Zipfel, John, Jr.
TRENTON—Armstrong, Hugh (Est. of)

NEW YORK.

ALBANY—Draper, Henry W.
Romeyn, T. F. Co.
Valentine, W. T. & Son
BUFFALO—Buffalo Box Factory, 365 Babcock
Elias, G. & Bro., 665 Elk
Glasstone, Phillip, 110 Seneca
Holland, Graves, Manbert & George
MacLean, James & Co., Louisiana & San-
dusky
Montgomery Bros. & Co., Court c Wilkeson
Niagara Box Co., 826 S Division
Zeis, M. & Sons, 200 Cherry

NEW YORK CITY. Borough of Brooklyn.

BROOKLYN—Abel, Robert & Son, 178 Met. av
Brumley, John J., 75 Grand av
Dykeman, James H., 280 Nevins
Eckert, John A., 54 Hopkins
Goodman & Gavin, 351 Metropolitan av
Haws, William, 154 9th av
National Packing Box Co., 298 Nevins
Olsen, John, Jr., 176 9th
Perimutter, L. & Bro., 425 Greenpoint av
Reeves, George H., 290 Greene
Smith, J. Stuart, 68 Eagle
Smith, E. C. & Co., 420 Oakland
Steel Clad Box Co., 606 Bergen.
Straubel, Wm. F. & Co., 65 Bedford av

Boroughs of Manhattan & Bronx

NEW YORK—Abbey, Frank R., 315 E 22d.
Antoni, August, 93 Cliff
Appell, Aaron, 227 Mercer
Armstrong, Eliza J., 81 Mercer
Barry, Wm. D. & Co., 48 Hudson
Bay State Improved Box Co., 76 Park pl
Bieg & Mayer, 6 Gold
Burdick, I. N., 138 Wooster
Buse, Fred'k, 1110 1st av
Carroll Box & Lumber Co., 629 E 18th
Clemons, J. W. Sons, 55 Ann
Covensky, William, 6 Beach
Crist, Jos. J., 9 Baxter
Doernberg & Goodman, 737 E 9th
Dunbar Box & Lumber Co., 282 11th av
Dunbar, John, 124 Worth
Dunning, James H., 90 W B'way
Eckert, John A., 261 Pearl
Epstein, Abraham, 64 Elizabeth
Epstein & Vollweiler, 814 5th
Fagan, James & Son, 204 W Houston
Finkelstein, Nathan M., 118 Bleecker
Fitzgerald, James H., 8 Lafayette pl
Gerow, Emma, 251 W 27th
Gilmour, Jas. A., 23 Bond
Gilmour, Wesley G., 87 White
Goldberg, Jacob, 125 Mercer
Golding, Abraham, 34 Bayard
Gottlieb, M. & Sons, 124 Elm
Green, A. H. Co., 22 Park pl
Greenfield Box Co., 21 Gold
Gunshor Case Co., 245 Canal
Hawley Box Co., 42 Gold
Hill, Frank J., 21 Beekman

Horowitz, Samuel, 4 Bleecker
Howard Steam Packing Box Factory, 124 Elm
Kidney, George, 7 Walker
Lauterstein, Sarah, 222 Wooster
Lavelle, Peter J., 224 Mulberry
Lynch, Frank, 221 Mercer
Manhattan Box Co., 737 E 9th
Manhattau Packing Case Co., 133 Crosby
Merrall, F. R. & Co., 505 E 18th
Mitchell & Moffett, 13 Wooster
Montague, Terrence, 9 York
Moore & Clark, 221 Hudson
Mulgannon, Patrick T., 25 E. Houston
Neely, John & Son, 741 E 9th
New England Box Co., 90 W B'way
O'Brien & Mosher, 223 Greene
Patterson, Thos. G. (Est. of), 130 11th av.
Perimutter, L. & Bro., 392 Madison
Prato, Paul, Jr., 178 Wooster
Qua, James, 315 W B'way
Reliable Packing Box Co., 221 Mercer
Riley, Mary E., 384 Pearl
Roseuthal & Cohen, 53 Great Jones
Ross, Benj. F., S Bond
Roth & Epstein, 65 Crosby
Ryan, John & Son, 132 Mercer
Ryan, P., 109 Reade
Ryan, William, 144 Elm
Schutz Bros., 108 Fulton
Smoke, Anne, 159 Wooster
South Side Mfg. Co., 114 Warren
Todd, Thomas, 634 1st av
Trembly, Ralph, 62 Cliff

(END OF NEW YORK CITY)

ROCHESTER—Kay Box & Lumber Co.
Newberry, C. K.
Rochester Box & Lumber Co.
SYRACUSE—Lyons, John H. & Sons
Merriam Mfg. Co.
Piquet Box Co.

OHIO.

CINCINNATI—Aman & Sandman, 21 W. Mc-
Micken av
Beck, Geo. C. Box & Lumber Co., 1407
Beck, Walter G., 717 Carr Denman
Conkling, E. A. Box Co., Reading rd &
Dorchester av
Kenker, Fred, Sr., Cheviot
McWilliams & Schulte, McLean av & Rich-
mond
Queen City Box Co., C. S. R'y s of Liberty
Tyler, H. A. & Co., 1041 Evans
Unnewehr, Frank & Co., 7th & Culvert
Wildberg Box Co., 9th & Eggleston av
CLEVELAND—American Box Co., 540 Seneca
Duun, James Co., Seneca c Ohio
Forest City Box Co., Seneca c Ohio
Hahn, J. N. Co., Cuyahoga c Seneca
Lake Shore Saw Mill & Lumber Co., Wason
c Superior
National Box Co., 105 Jefferson
Ohio Cooperage Co., Alum & Clark et
Saginaw Bay Box Co., 507 Seneca
Valley Box Co., 540 Seneca
Wiggins, Fred B., 148 Columbus
COLUMBUS—Fletcher, B. C.
Rood Lumber Co.
DAYTON—Gondert & Lienesch
TOLEDO—Phoenix Box Factory
Western Manufacturing Co.
Wilson, George & Sons Co.

OREGON.

PORTLAND—Multnomah Lumber & Box Co.
Northern Box Manufacturers' Agency
Standard Box & Lumber Co.
Star Box Co.

PENNSYLVANIA.

ALLEGHENY—Duquesne Box & Lumber Co.,
Market c Bayard
M'Clure, Alexander Box Co., 993 Beaver av
CHESTER—Hamilton, John
PHILADELPHIA—Atkinson, Margaret D., 4314
Josephine, F'k'd
Brown, Andrew (Est. of), 828 Filbert
Carnworth, Bell & Co., 613 Cherry
Carver, John J., 408 Commerce
Datz, Chas. F., 422 N Orianna
Devlin, Francis, 1306 Drury
Douglass, Edwin D., 437 N 8th
Fodey, John J.
Galbraith, John (Est. of), 619 Commerce
Gould, Wm. G., 2924 Rorer
Jones, Samuel & Sons, 2230 Hamilton
Kees, Wm. J., 115 Cuthbert
Keystone Box Mfg. Co., 223 Wood
Kugler, Geo. W. & Sons, 918 N Front
Lamont, Andrew, 1931 S Chadwick
McCauley, J. & W., 636 Filbert

Martiu, John, 514 Cuthbert
Maxwell & Grier, 427 Locust
Meisle, G. & Bro., 217 New
Mench, S. B. & Co., 2031 E Fletcher
Meyer, William, 206 Quarry
Nichols, Clayton W., 918 Beach
Orr, Wm. L., 1613 S 19th
Pearson, Jos. T., Kensington & Boston avs
Philadelphia Packlug Box Co., 2634 N
American
Provident Lumber Co., Arcade bldg
Quaker City Packing Box Co., 701 E Gi-
rard av
Rice, T. B. & Sons Co., Mifflin st wharf
Ritner, F. B. & Co., 2712 N 2d
Schweitzer, Joseph, 227 Wood
Shoemaker's, J. B. Sons, Clearfield & Lip-
pincott
Tait, Andrew Box Co., 1740 Ludlow
Treen Box Co. (Inc.), 1033 Bodine
Wilson, Andrew, Wilde c Kram's av, M'y'k
PITTSBURG—Anchor Box Factory, Wood-
ville av
Kress, F. J. Box Co., 2920 Liberty av
Souppoff, Morris, 19 Miller
READING—Deysher, Abner E.

RHODE ISLAND.

PASCOAG—Lapham, Myron D.
PAWTUCKET—Polsey, J. N. & Co.
PROVIDENCE—Presbrey & Son Co.
Providence Box & Lumber Co.
Talbot Bros. Co.
Sweet, A. H. & Son, 3 Pine

TEXAS.

MINEOLA—Mineola Box Mfg. Co.

VERMONT.

BARTON—Chandler, E. L. Co.
BENNINGTON—Bingham, J. B.
Evans & Bugbee.
BURLINGTON—Crane, D. G. & W.
Hickok, Horatio Co.
Robinson-Edwards Lumber Co.
MORETOWN—Ward, Hiram O.
RICHMOND—Richmond Lumber Co.
STAMFORD—Tudor, John

WASHINGTON.

SEATTLE—Bennett Box Factory.
Queen City Mfg. Co.
Stetson & Post Mill Co.
Warren, Alfred, 706 10th av
SPOKANE—Musser, Wm., Lumber & Mfg. Co.
TACOMA—Pacific Box Co.

WEST VIRGINIA.

HUNTINGTON—Beader Box Mfg. Co.
KENOVA—Kenova Lumber Co.
WHEELING—Johnson, W. B.
McConnell, W. W.
Morris, H. D.

WISCONSIN.

APPLETON—Brunschweiler, G. W.
ASHLAND—Lake Superior Lumber & Box Co.
CATO—Killen, W. L.
DE SOTO—Hogboon Bros.
EAU CLAIRE—Eau Claire Box & Lumber Co.
Haven, Geo. & Co.
Linderman Box & Veneer Co.
FOND DU LAC—Bates, C. E.
GRAND RAPIDS—Badger Box & Lumber Co.
GREEN BAY—Murphy Box Co.
Rice, G. H.
JANESVILLE—Magee Bros.
LA CROSSE—Joosten, W. J.
Larson Bros. & Co.
MANITOWOC—Drost & Bros.
Schnorr Bros.
MARINETTE—Marinette Lumber Co.
Marinette & Menominee Box Co.
MARSHFIELD—Hafer & Kalsched
MILWAUKEE—Becker, C. A. & Son, 4 East
Hays, George, 228 5th
Jaloss, Henry V., 1018 St. Paul av
Kieckhefer Box Co., Canal & 16th St. via-
duct
Mueller & Son Co., 445 Canal
National Box Co., 534 American av
OCONTO—Oconto Company
OSHKOSH—Clark & Nelson
SHEBOYGAN—Sheboygan Binding & Box Co.
UNITY—Fritz & Fry
WASHBURN—Kenfield & Lamoureux

WATERLOO—Neupert & Budig
WAUKESHA—Waukesha Mfg. Co.
WAUSAU—Goodwillie Bros.
Wausau Box & Lumber Co.
Wisconsin Box Co.

***Packing (Cement)**

AMERICAN-GOETZE GASKET &
Packing Co. ("Goetze Cement," Fire &
Water, for all Purposes), 725 141st, New
York. (See adv. index, end of book)
SMOOTH-ON MFG. CO. ("Smooth-
On"), 572 Communipaw av, Jersey City,
N. J. (See adv. index, end of book)

Packing (Flax)

Crandall Packing Co., Palmyra, N. Y.; 136
Liberty, New York, & 52 W Washington,
Chicago, Ill.

Goodsell Packing Co., 23 S Canal
STRONG MACHINERY & SUPPLY CO.
("Stroug's Best" Rivalate), 48 Franklin,
New York. (See adv. index, end of book)
Wing, J. T. & Co., 19 Woodward av, Detroit,
Mich.

Packing (Hard Fibre)

(See Fibre Mfrs., Hard.)

Packing (Hydraulic)

Chicago Rawhide Mfg. Co. (Rawhide), 75 E
Ohio, Chicago, Ill.
Morgan & Wright (Inc.) ("Cadillac" White Seal
Core, etc), 226 Jefferson av, Detroit, Mich.
National Rawhide & Belting Co. (Rawhide),
Niles, Mich.

Steel Mill Packing Co., Detroit, Mich.
STRONG MACHINERY & SUPPLY CO.
("Strong's" Aquaproof), 48 Franklin, New
York. (See adv. index, end of book)
Western Rawhide & Belting Co. (Rawhide),
Milwaukee, Wis.
Wing, J. T. & Co., 19 Woodward av, Detroit,
Mich.

Packing (Jute)

Americau Mfg. Co., 63 Wall, New York
Bailey, John T. & Co., c Water & Tasker,
Phila., Pa.
Columbian Cordage Co., Auburn, N. Y.
Jacobs Cordage Co. (Hemp), Harriot & Budd,
Cincinnati, O.
Overman & Schrader Cordage Co., Covington,
Ky.
STRONG MACHINERY & SUPPLY CO.
("Strong's" Round Twist Jute), 48 Franklin,
New York. (See adv. index, end of book)

Packing (Leather)

Detroit Leather Specialty Co. (Hydraulic
Leather), Detroit, Mich.
Gratou & Knight Mfg. Co. (Flat), Worcester,
Mass.
Houghton, E. F. & Co. (Hydraulic "Vici"),
240 W. Somerset, Phila., Pa.
Leather & Brass Mfg. Co. ("Cup"), Auburn,
N. Y.
Providence Belting Co. ("U" & Leather Hy-
draulic Packing), 25 Charles, Providence,
R. I.
Quincy-Manchester-Sargent Co. (Cup Leather),
Old Colony bldg, Chicago, Ill., & 114 Liber-
ty, New York
Robertson, Jno. & Co. (Hydraulic), 127 Water,
Brooklyn, N. Y.
STRONG MACHINERY & SUPPLY CO.
("Strong's"), 48 Franklin, New York. (See
adv. index, end of book)
Union Elevator & Machine Co. ("Union" Long
Life, 144 Ontario, Chicago, Ill.

Packing Mfrs.

(See also Engineers' Supplies; also Belting &
Belt Appliances; also Cotton & Wool Waste;
also Mill & Factory Supplies; also Mineral
Wool; also Pipe & Boiler Coverings, various
kinds; also Steam Fitters' Supplies & Spec-
ialties, Jobbers)

ALABAMA.

MOBILE—BOSTON BELTING CO. (Tur-
ner Supply Co., Rep.), 23 S. Commerce.
(See adv. index, end of book)

ARKANSAS.

LITTLE ROCK—Johns, H. W.-Manville Co.
(Vulcabeston), 117 E Markham

CALIFORNIA.

LOS ANGELES—BOSTON BELTING CO.
(Warren & Bailey Mfg. Co., Rep.), 359 N. Main. (See adv. index, end of book)
SAN FRANCISCO—BOSTON BELTING CO.
(Pacific Coast Rubber Co., Rep.), 138 First. (See adv. index, end of book)
Bowers Rubber Co. ("Dods," Cross Expansion Piston)
Boston Woven Hose & Rubber Co. (of Cambridgeport, Mass.), 46 Stewart
Johns, H. W.-Manville Co. (of New York) (Vulcabeston), 127 New Montgomery
Revere Rubber Co. (of Boston, Mass.), 530 Mission

COLORADO.

DENVER—BOSTON BELTING CO. (Denver Rubber Co., Rep.), cor. 16th & Welton. (See adv. index, end of book)

CONNECTICUT.

BERLIN—Seward Rubber Co.
HARTFORD—Hartford Rubber Works Co. (Rubber)

JOHNS-PRATT CO., THE ("Vulcabeston") Round or Flat, for Steam, Water, Gas & Acids

SMOOTH-ON MFG. CO. ("Smooth-On") Iron Cement Sheet, 20 Sacramento. (See adv. index, end of book)

DELAWARE.

WIMINGTON—Delaware Hart Fibre Co. (Hard Fibre)

GEORGIA.

ATLANTA—BOSTON BELTING CO.
(Southern Belting Co., Rep.), 40 S. Forsyth. (See adv. index, end of book)

ILLINOIS.

AURORA—Udsted. S. (Plastic)
CHICAGO—Advance Packing & Supply Co. (Importers of German Asbestos, "Trio" & "Mico"), 55 S Canal

Allen, W. D. Mfg. Co. (The Arrow), 151 Lake

BOSTON BELTING CO. (Jewel Belting Co., Rep.), 175 Lake. (See adv. index, end of book)

Boston Woven Hose & Rubber Co. (Of Cambridgeport, Mass.), 145 W Lake
Chicago Fire-Proof Covering Co. (Steam), 18 N Canal

Chicago Rawhide Mfg. Co. ("Mabbs" Rawhide Hydraulic), 75 E Ohio

CRANDALL PACKING CO. (of Palmyra, N. Y.) (all Kinds for all Purposes), 36 La Salle. (See adv. index, end of book)

Garlock Packing Co. (Of Palmyra, N. Y.), 72 S Canal

Goodsell Packing Co. ("Metal-Boston," "Dollar," "New Century" & "Sleeve"), 23 S Canal

Gutta Percha & Rubber Mfg. Co. (of New York), 224 E Randolph

Hartford Rubber Works Co. (Of Hartford, Conn.), 83 Michigan av

Home Rubber Co. (Of Trenton, N. J.), 54 S Canal

Jenkins Bros. ("Jenkins 96"), (of New York), 31 N. Canal

Jerome & Elliott ("Jerome," Metallic Valve Stem Piston Rod), 35 S Canal
Johns, H. W.-Manville Co. (of New York) (Vulcabeston), 173 Randolph
Keasbey & Mattison Co. (Cylinder & Steam Asbestos) (of Ambler, Pa.), 208 Lake

Mechanical Rubber Co. (Rubber), 230 Randolph

New York Belting & Packing Co. (Ltd.), of New York, 150 Lake

Phoenix Metallic Packing Co. (Metallic), 787 S Jefferson

Revere Rubber Co. (of Boston, Mass.), 168 E Lake

SMOOTH-ON MFG. CO. ("Smooth-On") Iron Cement Sheet, 61 N Jefferson. (See adv. index, end of book)

SWAIN LUBRICATOR CO. (Metallic, Piston, Valve Stem, etc.) Lake & S Water, Chicago, Ill. (See adv. below)

United States Metallic Packing Co. (of Phila., Pa.), 77 E Jackson Boul

WATSON, H. F. CO. (of Erie, Pa.) (Asbestos Braided, Piston Rod, Core Wicks, etc.), 12 S Clinton. (See adv. index, & branch offices, end of book)

INDIANA.

INDIANAPOLIS—BOSTON BELTING CO.
(Taylor Belting Co., Rep.), 247 S Meridian. (See adv. index, end of book)

Pioneer Brass Works ("Deeds" Metallic), 424 S Penn

NEW ALBANY—Bowman, D. F. (Railroad)

KENTUCKY.

LEXINGTON—American Metallic Packing Co. (Metallic)

LOUISVILLE—BOSTON BELTING CO.
(W. & A. C. Semple, Rep.), 311 W Main. (See adv. index, end of book)

LOUISIANA.

NEW ORLEANS—BOSTON BELTING CO.
(C. T. Patterson Co., Rep.), 404 Carondelet. (See adv. index, end of book)

MAINE.

BANGOR—BOSTON BELTING CO. (M. Schwartz & Sons, Rep.) (See adv. index, end of book)

PORTLAND—Clark Flexible Metallic Packing Co., 71 Kennebec

MARYLAND.

BALTIMORE—BOSTON BELTING CO.
(Carey Machinery & Supply Co., Rep.), 119 E Lombard. (See adv. index, end of book)

New York Belting & Packing Co. (Ltd.), of New York, 114 W Baltimore

MASSACHUSETTS.

BOSTON—American Steam Packing Co. ("20th Century," "Diamond," "Smoky City" & "Favorite"), 51 High

Anderson, G. P. (Engine & Pump), 163 Oliver

Auto Mfg. Co., 7 Water

Bestosking Packing & Supply Co. (Valve Stem Asbestos), 170 Summer

BOSTON BELTING CO. (Rubber, "Forsyth" Combination, Ammonia, Plumbago, "Phoenix Red," Piston, Spiral Pis-

ton, "Noxall" Ring, etc.), 200 Devonshire. (See adv. index, end of book)
Boston Woven Hose & Rubber Co. (of Cambridgeport, Mass.), ("Leader Tuchs," "Red Gauntlet" & "Tiger"), 170 Summer
Chesterton, A. W. & Co. ("Metalbestos," "Lubrobestos," "Vaporited," "Rubberbestos," Metallo Gum Core, etc.), 64 India
Eagle Oil & Supply Co. ("Eagleine," Ring Square Flax, Hydraulic, etc.), 104 Broad
EHRET MAGNESIA MFG. CO., 14 Binford. (See adv. index, end of book)
Fitts, F. E. Mfg. & Supply Co., 88 Purchase
Gardner & Carey ("St. John" Cylinder), 33 Broad

Garlock Packing Co. (Of Palmyra, N. Y.), 43 High

Greenwood Mfg. & Supply Co. ("Greenwood," "Mica-Asbestos," Rod & Piston, etc., & "Mica Para," Sheet; "Ring & Spiral," also Gum Core & Square Flax & Crescent Red Sheet), 147 Milk, Boston, Mass.

Gutta-Percha & Rubber Mfg. Co. (Of New York), 71 Pearl

Jenkins Bros. ("Jenkins 96"), 35 High

Johns, H. W.-Manville Co. (of New York) (Vulcabeston), 77 Pearl

Keasbey & Mattison Co. (Cylinder & Steam Asbestos) (of Ambler, Pa.), 54 Pearl

Knowlton, Geo. W. Rubber Co. ("Brossite," "Fraser," "G. W. K.," "Hub," "Knowlton" & "Manila"), 88 Broad

Knowlton Packing Co. (Rubber), 14 L

Lubron Mfg. Co. ("Lubron"), 88 Broad

Merrill, W. B. & Co. ("Tripp" Metallic), 74 India

Mitchell, Geo. E. (Metallic Rod), 92 State

New York Belting & Packing Co. (Ltd.), of New York, 232 Summer

Revere Rubber Co., 77 Bedford

SILVER LAKE CO. (Braided), 78 Cbauncey. (See adv. index, end of book)

Standard Packing Mfg. Co. (Metallic Fibred Compound for Ammonia, Air, Steam, Truck Boxes, etc.), 404 Atlantic av

Thompson & Norris Co., Braintree & Everett-Alls

Trainer, C. W. Mfg. Co. (Asbestos Metallic), Walworth Mfg. Co., 132 Federal 89 Pearl

WATSON, H. F. CO. (of Erie, Pa.) (Asbestos Braided, Piston Rod, Core Wicks, etc.), 79 Milk. (See adv. index, end of book)

CAMBRIDGE—Boston Woven Hose & Rubber

Gould Packing Co. (Ring, etc.) Co.

WORCESTER—Vellumoid Paper Co. ("Vellumoid" Sheet in Rolls)

MICHIGAN.

DETROIT—BOSTON BELTING CO.
(Muzzy-Lyon Co., Ltd.), 56 Woodward av. (See adv. index, end of book)

Detroit Leather Specialty (Wear Well Hydraulic Leather), 275 Beecher av

Morgan & Wright (Inc.), ("White Seal," "Economy," "Morganite," "Triangle," "Nagrom," "Cadillac" & "Excellent" Tucks), 226 Jefferson av, Detroit, Mich.

Steel Mill Packing Co. ("Safety" Plastic Metallic), 42 Larned av

Wing, J. T. & Co., 19 Woodward av

MENOMINEE—Prescott, D. Clint Co. ("Regal," Metallic)

NILES—National Rawhide & Belting Co. (Rawhide)

OUR METALLIC PISTON ROD PACKING FOR ALL CLASSES OF ENGINES IS SIMPLE, DURABLE AND EFFECTIVE. IT VIBRATES WITH THE ROD REDUCING FRICTION AND WEAR TO A MINIMUM. A TRIAL OF THIS PACKING WILL DEMONSTRATE ALL WE CLAIM FOR IT.

Metallic Packing

FOR

Piston Rods and Corliss Valve Stems

MANUFACTURED BY

SWAIN LUBRICATOR CO.

Cor. Lake and S. Water Sts.

CHICAGO ILL.

SWAIN'S ROTARY PACKING IS THE ONLY PERFECT PACKING FOR CORLISS VALVE STEMS, BECAUSE IT ROTATES WITH THE STEM. IT IS ALWAYS STEAM AND WATER TIGHT. IT OPERATES IN OIL AND LASTS FOR YEARS.

WRITE FOR PRICES.

OUR PACKING IS USED BY

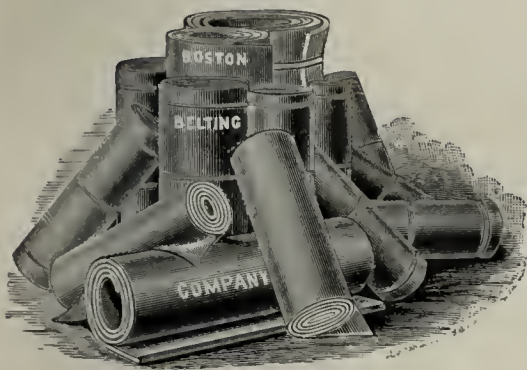
American Sheet and Tin Plate Co.
Pennsylvania R. R. Co.
Carnegie Steel Co.
International Harvester Co.
Allis-Chalmers Co.

Baldwin Locomotive Works
Southern Steel Co.
Detroit United Rys. Co.
Jones & Laughlin.
City of Chicago

Swift & Co.
Chicago Union Traction Co.
Am. Steel & Wire Co.
Filer & Stowell
Edison Electric Light & Power Co.

WE ALSO MANUFACTURE THE SWAIN LUBRICATOR FOR SHAFTING AND LOOSE PULLEYS. SEE OUR ADVT. PAGE 594

ROD — PACKINGS — SHEET



RUBBER PACKING

WITH CLOTH INSERTION AND RUBBER OR CLOTH ON ONE OR BOTH SIDES. FOR AIR, STEAM OR WATER JOINTS. ALSO PURE, WITHOUT INSERTION

ADAPTED FOR
ALL PURPOSES

HIGH GRADE GOODS

PRICES REASONABLE



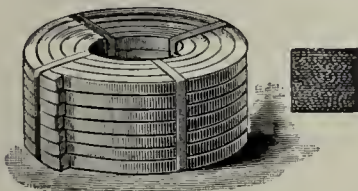
Patented April 11, 1899

PHOENIX RED SHEET PACKING

TRADE MARK
ONE OF THE BEST PACKINGS UPON THE MARKET FOR GENERAL USE. NOT QUICKLY AFFECTED BY HEAT, OIL, LIQUORS, AMMONIA OR ALKALIES AND CONFORMS READILY TO UNEVEN SURFACES

BLACK DIAMOND TRADE MARK SHEET PACKING

HEAT AND OIL RESISTING TO A REMARKABLE DEGREE. EQUALLY WELL ADAPTED FOR AIR, STEAM OR WATER JOINTS.



SQUARE PISTON PACKING

20 FT. LENGTHS. ALL SIZES USED BY PUMP MANUFACTURERS. ADAPTED FOR PACKING PISTON RODS AND VALVE STEMS OF STEAM, WATER AND AIR PUMPS, STEAM AND GAS ENGINES. AN EXCELLENT PACKING FOR HYDRAULIC ELEVATORS.



$\frac{3}{8}$ " $\frac{1}{2}$ " $\frac{5}{8}$ " AND $\frac{3}{4}$ " DIAMETER

12 FT. LENGTHS.

FOR HANDHOLES AND MANHOLES
MAKES PERFECT GASKETS OF ANY SIZE OR SHAPE QUICKLY AND WITHOUT WASTE ECONOMICAL AND DURABLE.



IMPERIAL SPIRAL PACKING

CONTINUOUS COILS OF ABOUT 12 FEET. FLEXIBLE AND THOROUGHLY LUBRICATED.

FORSYTH COMBINATION METAL INSERTION PACKING 36" WIDE $\frac{1}{8}$ " AND THICKER

A RUBBER PACKING WITH AN INSERTION OF PLIABLE METAL - THUS COMBINING THE ADVANTAGES OF BOTH MATERIALS. UNEQUALLED FOR HIGH PRESSURES AND TEMPERATURES. STAYS IN PLACE AND MAKES TIGHT JOINTS UNDER ADVERSE CONDITIONS. A WONDERFULLY GOOD PACKING THAT IS BEING SUCCESSFULLY USED IN MANY HARD PLACES.



ROUND "TUCKS" PACKING

ALL SIZES. 12 FT. LENGTHS
UNIVERSALLY USED AND KNOWN AS A SERVICEABLE, RELIABLE PACKING.

BELTING, HOSE AND MECHANICAL RUBBER GOODS

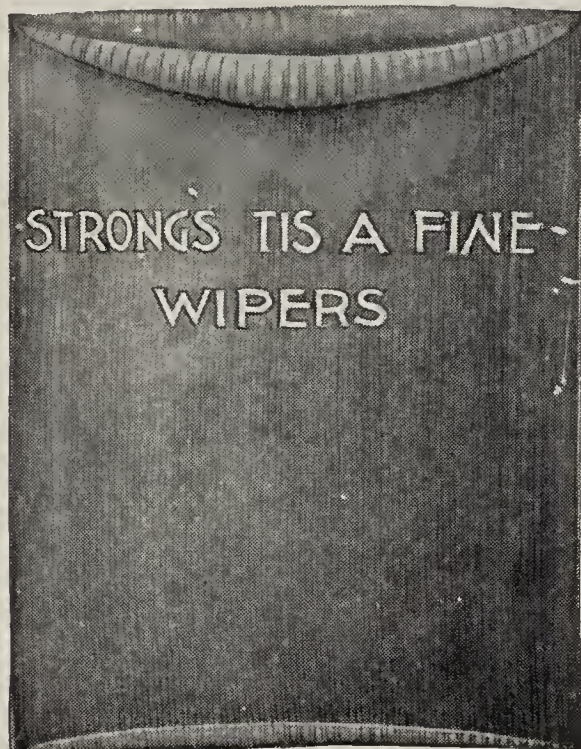
MANUFACTURED BY

BOSTON BELTING CO.

James Bennett Forsyth, Mfg. Agt. and General Manager

BOSTON NEW YORK BUFFALO CHICAGO CINCINNATI PHILADELPHIA CLEVELAND

When you Think of Cotton Waste, Think of Strong of New York



Telephones, 5530-5531 Franklin

WHITE COP WASTE—MACHINED AND UNMACHINED

EXTRA WHITE — No. 1 WHITE — B WHITE

Try a bale of our B White Machined Waste at 8¾ cents per lb.

We believe you will find it better value for your money than any other waste on the market.

COLORED WASTE — FANCY COLORED — No. 1 COLORED AND PARTLY COLORED

WOOL WASTE — All Grades

STRONG'S COTTON WIPER TOWELS

| | |
|--|------------------|
| Strong's Tisafine Wiper Towels, 12 x 18 inches | 4 cts. each |
| " Lightning " " 12 x 13 " | 3¼ cts. each |
| " Magic " " 12 x 12 " | 3 cts. each |
| " Regular Wipers—Hosiery Remnants, as they run, 1 square foot up | 15 cts. per lb |
| " Silk Wiper Towels, 12 x 14 inches | \$7.00 per gross |

Strong Cotton Waste & Mfg. Co.

48 FRANKLIN STREET, N. Y. C.

Hendricks'



Commercial Register..

Is consulted by more than 100,000 Buyers annually.

If you want to reach a Buyer advertise in this Book.

No Book more frequently consulted regarding the purchasing of materials, machinery or supplies.

Used by the Purchasing Department of every large concern in the United States.

MINNESOTA.

MINNEAPOLIS—Johns, H. W.-Manville Co. (of New York) (Vulcabeston), 26 N Washington av
ST. PAUL—BOSTON BELTING CO. (Crane & Ordway Co., Rep.), 5th & Rosabel. (See adv. index, end of book)
Northern Metallic Packing Co. (Metallic)
WINONA—Union Fibre Co. (Fibre Waste)

MISSOURI.

KANSAS CITY—BOSTON BELTING CO. (English Iron Works Co., Rep.), 410 W 5th. (See adv. index, end of book)
Johns, H. W.-Manville Co. (of New York) (Vulcabeston), 1410 Main
ST. LOUIS—BOSTON BELTING CO. (Handlan-Muck Mfg. Co., Rep.), 210 N 3d. (See adv. index, end of book)
Johns, H. W.-Manville Co. (of New York) (Vulcabeston), 916 N B'way
Morrison, Robt. ("Morrison" Self-Lubricating), 5034 Arsenal
New York Belting & Packing Co. (Ltd.), of New York, 218 Chestnut
Pillely Packing & Flue Brusb Mfg. Co. (Wedge Ring & Braided, for Steam, Water, Ammonia & Hydraulic), 600 S 3d
Zeinicker, Walter A. Supply Co. ("Brassbestos" Sheet), 408 N 4th

NEW JERSEY.

COLLINGSWOOD—Allen, Jos. ("Monitor")
JERSEY CITY—Johnson, Henry Co. (Ring, Spiral, Hydraulic, Square Flax, etc.), foot of Gates av
Lane, Rodney D. Packing Co. ("Climax" & "Defiance" Elastic Ring, Spiral, Water-Proof, etc.), 484 Johnston av
N. J. Car Spring & Rubber Co. (Antimony Red Sheet), R. R. av c Brunswick
Phoenix Steam Packing Co. ("Crack-a-Jack," Oval, Gum Core), Gates av & Hudson boul
Russell, M. J. (Russell's Automatic Steam), 42 Morris
SMOOTH-ON MFG. CO. ("Smooth-On" Iron Cement Sheet), 572 Communipaw av. (See adv. index, end of book)
Voorhees Rubber Mfg. Co. ("Nubian," Sheet, "Long Life," "Red Sheets," "Grapho-Bestos," "Royal Blue," Cloth or Wire Insertion Sheet, Spiral, Square Flax, Gum Core, Dry Dock)
MILLTOWN—International Automobile & Vehicle Tire Co. ("Sunbeam," "Fox" & "Sunset") (Rubber)
PASSAIC—Manhattan Rubber Mfg. Co. (Rubber)
TRENTON—Consolidated Rubber Co. ("Advance," "Arion," "Duke," "Genessee," "Mohawk," "Royal," "Runic," "Star," "Mas-cot," "Sunset" & "Superior")
Crescent Belting & Packing Co. ("Sunset" & "Capital")
Empire Rubber Mfg. Co. ("Amazon," "Alabama," "Cardinal," "Faust," "Gem," "Hercules," "Merrimac," "Model," "Monitor," "Paragon," "Perfect" & "Reliance")
Hamilton Rubber Mfg. Co. (Rubber)
Home Rubber Co. ("O. I. M., "Red Rose" & "N. B. O.") (Rubber)
Hunt, Jas. B. Mfg. Co. (Gum, Core, Flax)
Reeves Machine Co. (Hartman Metallic)
Stokes, Jos. Rubber Co.
Trenton Rubber Mfg. Co. ("Black Bear" & "Thermidore," Rubber)
United & Globe Rubber Mfg. Co. (Rubber)
Whitehead Bros. Rubber Co. (Rubber)

NEW YORK.

ALBANY—Albany Rubber Co. (Rubber), 164 Jay
BUFFALO—BOSTON BELTING CO. (of Boston, Mass.) (Rubber, "Forsyth," Combination Ammonia, Plumbago, "Phoenix Red," Piston, Spiral Piston, "Noxall," Ring, etc.), 90 Pearl. (See adv. index, end of book)
JAMESTOWN—Engineering & Power Co.

NEW YORK CITY.

Borough of Brooklyn.

BROOKLYN—Ambrose Machine Co. ("Ambrose" Metallic Self-Adjusting Piston), Provost & Eagle
Excelsior Ring Packing Co., 430 Kent av
Law Metallic Packing Co. ("Law" Metallic), 44 Court

Boroughs of Manhattan & Bronx

NEW YORK—AMERICAN GOETZE GAS-ket & Packing Co. (all Kinds for all Purposes), 725 E. 141st. (See adv. index, end of book)
American Mfg. Co. (Jute), 63 Wall
American Steam Packing Co. (Asbestos, Metallic), of Boston, Mass., 109 Liberty
BOSTON BELTING CO. (of Boston, Mass.) (Rubber, "Forsyth," Combination, Ammonia, Plumbago, "Phoenix Red," Piston, Spiral Piston, "Noxall," Ring, etc.), 100 Reade. (See adv. index, end of book)
Boston Woven Hose & Rubber Co. (Of Cambridgeport, Mass.), 116 Duane
Brandt, Randolph ("Selden," Square Flap, "Enterprise," "Zena"), 70 Cortlandt
Buckley, Jno. W., 69 Warren
Carey, Philip Mfg. Co. (Asbestos, etc.), (of Lockland, O.), 116 Liberty
Colgan Mfg. & Supply Co. ("Colgan," High Pressure & Sheet), 42 South
Common Sense Metal Packing Mfg. Co., 393 Pearl
Crandall Packing Co. (of Palmyra, N. Y.) (all Kinds for all Purposes), 136 Liberty
Duval Metallic Packing Co. (Metal), 111 B'way
EHRET MAGNESIA MFG. CO., 73 Maiden Lane. (See adv. index, end of book)
Empire Rubber Mfg. Co. (Rubber, All Kinds), 148 Chambers
Garlock Packing Co. (of Palmyra, N. Y.), 136 Liberty
Gilmour, R. M. Mfg. Co. (Asbestos), 105 John
Goodrich, B. F. Co. (of Akron, O.) (Rubber), 66 Reade
Goodyear Rubber Co. ("Pioneer" & "Gold Seal"), 787 B'way
Greene, Tweed & Co. ("Crescent," "Manhattan," "Palmetto," "Royal" & "Union"), 109 Duane
Gutta Percha & Rubber Mfg. Co. ("Red Jacket" & "Pyramid"), 126 Duane
Home Rubber Co. (Rubber), 80 Reade.
Works, Trenton, N. J.
Imperial Rubber Co., 253 B'way
International Automobile & Vehicle Tire Co. (Rubber), 44 Broad & 1557 B'way
Jenkins Bros. ("Jenkins 96"), 71 John
Johns, H. W.-Manville Co. ("Vulcabeston," "Kearsarge," "Mogul," "Mobilene," "Asbestocel," "Hydro," "Liberty"), 100 William
Katzenstein, L. & Co. (Metallic & Flexible Tubular Metallic), 358 West
Keasbey & Mattison Co., 100 John. Works, Ambler, Pa.
Knowiton Packing Co. (Rubber), 39 Cortlandt
Libby Valve & Packing Co. ("Libby's" XL Line, "U. N. O." & "Velvet"), 34 Pine
Mechan'1 Rubber Co. (Rubber), 91 Chambers
Metropolitan Rubber Co. (Rubber), 114
Mineralized Rubber Co., 18 Cliff
Motley, Thornton N. & Co., 12 John
Murray, R. & H. J., 104 Reade
New York Asbestos Mfg. Co. (Asbestos, Flat, Rope & Wick), 80 John
New York Belting & Packing Co. (Ltd.) (Pure Sheet, Cloth Insertion Sheet "Rubby" Sheet, "Salamanda" Sheet, "Cobb's" Round, Square & Spiral Piston, "Amazon" Waterproof Hydraulic, "Magic" High Pressure, Square & Rubber Back Piston), 91 Chambers
New York Rubber Co., 84 Reade
Peerless Rubber ("Artic," "Germane," "Hercules," "Honest John," "Peerless," "Rain-bow," "Success," "Uniphite" & "Zero"), Pa. Rubber Co., 1741 B'way
Revere Rubber Co. (of Boston, Mass.), 50 Reade
Roberts, Geo. I. & Bros. (Inc.) (Square, Flax Packing), 471 4th av
Robertson, Jas. L. & Son, Inc. (Eureka), 48 Warren
Saunderson & Wright ("Nonesuch"), 465 W B'way
STRONG MACHINERY & SUPPLY Co. (Steam, Ammonia, Hydraulic, Asbestos, etc.), 48 Franklin. (See adv. index, end of book)
Vanda Co. ("Vanda"), 96 Spring
Voorhees Rubber Mfg. Co. (Steam "Nubian"), 48 Dey
Vulcan Asbestos Co. ("Vulcabestos"), 192 Pearl
Waterbury Rubber Mfg. Co. (Rubber), 75 Warren
(END OF NEW YORK CITY)
PALMYRA—Crandall Packing Co. (all Kinds for all Purposes)
Garlock Packing Co. (All Kinds for All Purposes)
Vacuum Packing Co.

OHIO.

AKRON—Diamond Rubber Co. (Rubber, "Indian Red," "Silver Leaf" & "Koh-I-Noor")
Goodrich, B. F. Co. ("White Queen" Red Rubber, "Dusky Queen" Unvulcanized Wire Insertion)
ALLIANCE—Alliance Asbestos Mfg. Co. (Asbestos Plain, Braided, Wound Cloth & Sheet)
CINCINNATI—BOSTON BELTING CO. (Queen City Supply Co., Rep.), 201 W Pearl. (See adv. index, end of book)
Bradford Belting Co., cor. 2d & Walnut
Cincinnati Rubber Mfg. Co. (Rubber)
Jacobs, Chas. M., Cordage Co. (Jute Packing), Neave bldg
KINSEY, E. A. CO., 331 W 4th. (See adv. index, end of book)
Nuhring, Chas. ("I. X. L." Steam), 907 Walnut
CLEVELAND—American Metallic Packing & Supply Co. (Self-Lubricating Metallic), 1104 St. Clair, N. E.
BOSTON BELTING CO. (W. Bingham Co., Rep.), 1433-1455 9th, N. W. (See adv. index, end of book)
Boston Woven Hose & Rubber Co. (of Cambridgeport, Mass.), 26 S Water
Cleveland Tool & Supply Co., 8 S Water
Johns, H. W. Manville Co. (of New York) (Vulcabeston)
Keasbey & Mattison Co. (Cylinder & Steam Asbestos) (of Ambler, Pa.), 117 Water
Mechanical Rubber Co. ("Marco," Rubber), C. & P. R. R., nr. Nickel Plate R. R.
COLUMBUS—Hayden, N. L. Mfg. Co. ("Hayden" Metallic)
FRONTON—Fronton Engine Co. (Metallic)
LOCKLAND—Carey, Philip Mfg. Co. (Asbestos, etc.)
OBERLIN—National Metallic Packing Co. (Metallic)
SWANTON—Pilliod Packing Co. ("Pilliod's" Ring Packing for Steam, Water & Air)
TOLEDO—BOSTON BELTING CO. (Boswick Braun Co.) (See adv. index, end of book)
YOUNGSTOWN—Republic Rubber Co. ("Searchlight" & "Ebona" Rubber)

OREGON.

PORTLAND—BOSTON BELTING CO. (Pacific Coast Rubber Co., Rep.), 41 First. (See adv. index, end of book)

PENNSYLVANIA.

ALLETOWN—BOSTON BELTING CO. (Wm. H. Taylor & Co., Rep.), 250 Hamilton. (See adv. index, end of book)
AMBLER—Keasbey & Mattison Co. (Cylinder & Steam Asbestos)
BRIDGEPORT—Wilkinson Mfg. Co. ("Paragon" Metallic)
CHESTER—Harper Mfg. Co. (Metallic)
ERIE—Continental Rubber Works ("Tribune")
Lake Shore Rubber Co. (Rubber)
WATSON, H. F. CO. (Asbestos Braided, Piston Rod, Core Wicks, etc.) (See adv. index, end of book)
FRANKLIN—Franklin Mfg. Co. ("Perfection" Journal Box, Piston Rod, etc.)
HAZLETON—BOSTON BELTING CO. (Hazleton Machinery & Supply Co., Rep.) (See adv. index, end of book)
JEANNETTE—Penna Rubber Co. ("Century," for Steam, Air, Acids, Water, etc.)
NORRISTOWN—Norristown Covering Co.
PHILADELPHIA—Acme Packing & Rubber Co., 230 N 3d
Billington, Jas. H. Co. (Maltese Cross Brand), 113 Chestnut
BOSTON BELTING CO. (Mulconroy Co., Rep.), 722 Arch. (See adv. index & branch offices, end of book)
Brown, D. P. & Co. (Brown's Oil Proof Ring & Sheet, etc.), 264 N 4th
Canfield Mfg. Co. (Ltd.), ("Empire" Braided Gum Core, "Canfield," "Square Flax Spiral & Ring, "Amherst," "Rex" & "Regal"), 1112 Noble
EHRET MAGNESIA MFG. COMPANY, Land Title bldg. (See adv. index & branch offices, end of book)
Eureka Packing Co., 238 Ionic
France Packing Co., Inc. ("France's" Metallic, Piston & Valve Rod), 6506 State rd, Tacomy
Garlock Packing Co. (of Palmyra, N. Y.), 604 Arch
Glandling, Jas. Co. ("Noir" & "Eagle"), 1907 N. 6th

Houghton, E. F. Co. ("Vim"), 240 W. Somerset
 Jenkins Bros. ("Jenkins 96"), 133 N 7th
 Johns, H. W. Manville Co. (of New York)
 (Vulcabeston), 21 N 2d
 Latta, Jno. S. & Co., 1215 Arch
 Montgomery Bros. ("M. B.", "Visa", "Diamond",
 "Paragon" Gum Bore, Steam,
 Hydraulic & Ammonia), 48 N Front
 Mulconroy Co. (Inc.) ("Black Jack", "Indian",
 "Quaker", "Pilgrim", "Puritan",
 "Thorobred" & "Victor"), 722 Arch
 New York Belting & Packing Co. (Ltd.), of
 New York, 118 N 8th
 Quaker City Rubber Co. (Chas. A. Daniel,
 Prop.) ("Daniels" P. P. Rod), 629
 Market
 Restine, Clement & Co. ("Belmont" &
 "Bell" Square Flax, Gum Core, etc.), 139
 N 2d
 Revere Rubber Co. (of Boston, Mass.),
 Drexel bldg
 Rowell, Wm. F. ("Cylinder"), 719 Noble
SAYEN, OSGOOD ("Torpedo" As-
bestos, "Un-X-L-D" Plumbago Unvul-
canized, "Johnson" Vulcanite Rubber,
"Midnight" Oil-Proof, "Tucks", "Auto,"
& "Melville" Oxidized White Rubber,
Arede bldg. Warerooms, 131 Market.
 (See adv. below)
 Skipton, Valentine Co., 2321 N 30th
 Smith, Jas. & Co. (Inc.), C & Westmoreland
 Standard Supply & Equipment Co. ("Tor-
 pedo" Asbestos Sheet), 1710 Market
 Underwood, H. B. & Co. ("St. John" Self-
 Adjusting Cylinder Packing), 1025 Hamil-
 ton
 U. S. Metallic Packing Co. (Metallic), 427
 N 13th
 Walker, Thos. & Sons (Metallic), 4619 Ta-
 cony, Fkd.
 Walsh Packing Co. (Metal Face, Steam &
 Water), 1118 S 7th
 Watt's Jno. M. Sons ("Dirigo", "Nonpareil",
 & "Keystone"), 232 N 3d
 Webb, Edw. G. ("Globe" & "Nolck") 218
 New

Williamson & Cassedy, 526 Market
PITTSBURG-BOSTON BELTING CO.
 (J. & H. Phillips, Rep.), 136 Sixth. (See
 adv. index, end of book)
 Carey, Philip Mfg. Co. (of Lockland, O.), 333
 2d av
 Chaplin-Fulton Mfg. Co. ("Roger"), 36 Penn
 av
 Flocker, Jno. & Co. (Ltd.), (Lubricating
 Hemp), 935 Liberty av
 Garlock Packing Co., 204 Wood
 Gerwig, H. & Sons, 1301 Penn av
 Johns, H. W. Manville Co. (of New York)
 (Vulcabeston), 220 1st av
 Keasbey & Mattison Co. (Cylinder & Steam
 Asbestos) (of Ambler, Pa.), 1209 3d av
 Larkin Metallic Packing Co. (Self Lubri-
 cating Metallic), Phipps Power bldg
 McClintock & Irvine Co., Neville & P.
 R. R.
 McConnell Asbestos & Covering Co. (Asbes-
 tos), Fulton bldg
 New York Belting & Jacking Co. (Ltd.), of
 New York
 Penna. Electrical & Railway Supply Co.
 ("Larkin's" Metallic), Lewis bldg
 Pittsburg Steam Packing Co., 210 2d
 Scully Belting & Supply Co., 301 Wood
 Strenuous Plastic Packing Co. (Plastic Me-
 tallic), Frick bldg
 Turner, C. A., 16 Market
SCRANTON-BOSTON BELTING CO.
 (Scranton Supply & Machinery Co., Rep.),
 131 Wyoming. (See adv. index, end of book)
WILKES-BARRE-Holmes Metallic Packing
Co. (Metallic Piston Rod & Valve Stem)

RHODE ISLAND.

BRISTOL-National India Rubber Co. (Sheet,
 Piston & Pump)

SOUTH CAROLINA.

CHARLESTON-Charleston Metallic Packing
 Co. ("Metalloid" & "Ideal")

TENNESSEE.

MEMPHIS-BOSTON BELTING CO.
 (Towner & Co., Rep.), 78 N Main (See adv.
 index, end of book)
NASHVILLE-BOSTON BELTING CO.
 (Keith, Simmons & Co., Rep.), 316 Union,
 (See adv. index, end of book)

WASHINGTON.

SEATTLE-BOSTON BELTING CO. (Pa-
cific Coast Rubber Co., Rep.), 212 Jackson
 (See adv. index, end of book)
 Johns, H. W. Manville Co. (of New York)
 (Vulcabeston), 550 1st av. S.
TACOMA-BOSTON BELTING CO. (Pa-
cific Slope Rubber Co., Rep.), 1316 A (See
 adv. index, end of book)

WISCONSIN.

MILWAUKEE-BOSTON BELTING CO.
 (A. H. Gardner Co., Rep.), 380 E Water
 (See adv. index, end of book)
 Delaney Oil & Lubricant Co. (Metallic), 45
 3d
 Johns, H. W. Manville Co. (of New York)
 (Vulcabeston), 225 Clybourn
 Western Rawhide & Belting Co. (Rawhide)

Packing (Metallic)

Advance Packing & Supply Co. (Asbesto-Metallic
 Sheet), 55 S Canal, Chicago, Ill.
 Ambrose Machine Co. ("Ambrose" Self-Ad-
 justing Piston), Provost & Eagle, Brook-
 lyn, N. Y.
 American Balance Valve Co., Jersey Shore, Pa.
AMERICAN GOETZE GASKET &
Packing Co., 725 E. 141st st., New York
 (See adv. index, end of book)
 American Metallic Packing & Supply Co. (Self-
 Lubricating), 1104 St. Clair, N. E., Cleve-
 land, O.
 American Metallic Packing Co. (for Steam),
 Lexington, Ky.
 American Steam Packing Co. (Asbesto-Metallic),
 60 Federal, Boston, Mass.
 Aurora Metal Co. ("Lewis & Kunzer" Piston),
 Aurora, Ill.
BOSTON BELTING CO. ("Forsyth"
Combination), 260 Devonshire, Boston,
Mass., & 100 Reade, New York. (See adv.
index & branch offices, end of book)
 Brandon, Jas., 390 11th av, N. Y.
 Buhne Metal Packing Co., 93-99 Nassau, New
 York City
 Charleston Metallic Packing Co. (Semi-Bronze),
 Charleston, S. C.
 Clark Flexible Metallic Packing Co. (Flexible
 Metallic), 71 Kennebec, Portland, Me.
 Common Sense Metal Packing Mfg. Co., 393
 Pearl, New York
 Cook, C. Lee, Louisville, Ky.
 Davidson, M. T. ("Watson's" Piston Rod, etc.),
 43 Keap, Brooklyn, N. Y., & 141 B'way, New
 York
 Delaney Oil & Lubricant Co., 45 3d, Milwaukee,
 Wis.
 Duval Metallic Packing Co., 111 B'way, New
 York
 France Packing Co. (Inc.) (Piston & Valve Rod,
 etc.), 6506 State rd, Tacony, Phila., Pa.
 Garlock Packing Co. ("Pitt"), Palmyra, N. Y.
 Goodsell Packing Co., 23 S Canal, Chicago, Ill.
 Harper Mfg. Co., Chester, Pa.
 Hayden, N. L. Mfg. Co. (Hayden), Columbus, O.
 Holmes Metallic Packing Co. (Piston Rod &
 Valve Stem), Wilkes-Barre, Pa.
 Ideal Metallic Packing Co., St. Paul, Minn.
 Ironton Engine Co., Ironton, O.
 Jerome & Elliott, 35 S Canal, Chicago
 Katzenstein, L. & Co., 358 West, N. Y.
 Law Metallic Packing Co. ("Law"), 44 Court,
 Brooklyn, N. Y.
 Merrill, Wm. B. & Co. ("Tripp" for Piston
 Rods, etc.), 72 India, Boston, Mass.
 Merwarth Metallic Gasket Co., East Cambridge,
 Mass.
 Mitchell, Geo. E. (Rod), 92 State, Boston, Mass.

Morgan & Wright (Inc.), ("White Seal" As-
 bestos Metallic Cloth Insertion), 226 Jef-
 ferson av, Detroit, Mich.
 National Metallic Packing Co., Oberlin, O.
 Northern Metallic Packing Co., St. Paul, Minn.
 Penna. Electrical & Railway Supply Co. ("Lar-
 kin's" Self-Lubricating), Lewis bldg, Pitts-
 burg, Pa.
 Phenix Metallic Packing Co., 7 S Jefferson, Chi-
 cago
 Pioneer Brass Works ("Deed's" Piston Rod),
 Indianapolis, Ind.
 Prescott, D. Clint Co. ("Regal"), Menominee,
 Mich.
 Reeves Machine Co. (The Hartham), Trenton,
 N. J.
 Revere Rubber Co. ("Giant" & "Samson,"
 Spiral Piston, etc.), 77 Bedford, Boston,
 Mass.
 Sayen & Schultz ("Shultz" Metal Wedge), 21
 N 13th, Phila., Pa.
 Standard Packing Mfg. Co. (Metallic Fibred
 Compound), 404 Atlantic av, Boston, Mass.
 Stayman Mfg. Co., 95 Liberty, New York
 Steel Mill Packing Co. ("Safety", Plastic Me-
 tallic), Detroit, Mich.
STRONG MACHINERY & SUPPLY CO.
 ("Strong's" Rivalate, Metal Face, Metallic
 Loop & Semi-Metallic), 48 Franklin, New
 York. (See adv. index, end of book)
SWAIN LUBRICATOR CO., cor. Lake
& S Water, Chicago, Ill. (See adv. index,
end of book)
 Trainer, C. W. Mfg. Co. ("Asbestos Metal-
 lic"), 89 Pearl, Boston, Mass.
 Tripp Metallic Packing Co., 297 Congress, Bos-
 ton, Mass.
 Udstad, S. (Plastic), Aurora, Ill.
 Unique Engineering Co. (Metallic Ring), 100
 Hinsdale, Brooklyn, N. Y.
 United States Metallic Packing Co., 427 N 13th,
 Phila., Pa.
 Walker, Thos. & Sons, 4619 Tacony Fkd., Phila-
 delphia, Pa.
 Walsh Packing Co., 111 S 7th, Phila., Pa.
 Ward & Upright Engineering Co., 41 York,
 Brooklyn, N. Y.
 Wilkinson Mfg. Co. ("Paragon" Piston Rod),
 Bridgeport, Pa.
 Wing, J. T. Co., 19 Woodward av, Detroit, Mich.

Packing (Piston Rod)

(See Packing, Metallic; also Packing Mfrs.)

Packing (Rawhide)

Chicago Rawhide Mfg. Co., 75 E Ohio, Chicago
 National Rawhide & Belting Co., Niles, Mich.
STRONG MACHINERY & SUPPLY CO.
 ("Strong's" Square Platted Rawhide), 48
 Franklin, New York. (See adv. index, end
 of book)
 Western Rawhide & Belting Co. (White Rope),
 Milwaukee, Wis.

Packing (Ring)

American Balance Slide Valve Co., San Fran-
 cisco, Cal., & Jersey Shore, Pa.
AMERICAN-GOETZE GASKET &
Packing Co., 725 E 141st, New York. (See
adv. index, end of book)
 American Steam Packing Co., 60 Federal, Bos-
 ton, Mass.
 Anderson, G. P., 163 Oliver, Boston
 Brandon, Jas. (Cylinder Ring), 390 11th av,
 N. Y.
 Brown, D. P. & Co. (Brown's Oil Proof), 262
 N 4th, Phila., Pa.
 Columbia Ring Packing Co., 6 Howard, N. Y.
 Continental Rubber Works (Rubber), Erie, Pa.
 Crandall Packing Co., Palmyra, N. Y.
 Garlock Packing Co., Palmyra, N. Y.
 Gould Packing Co., Cambridgeport, Mass.
 Greenwood Mfg. & Supply Co. ("Greenwood"),
 147 Milk, Boston, Mass.
 Excelsior Ring Packing Co., 430 Kent av,
 Brooklyn, N. Y.
 Hall Mfg. Co., 62 Cliff, New York

OSGOOD SAYEN, Manufacturer of Mechanical Rubber Goods of all Kinds

Sole Owners of JOHNSON PATENT VULCANITE VALVES, RED MELVILLE CONDENSER
 VALVES, TORPEDO ASBESTOS PACKING, MELVILLE WHITE OXIDIZED PACKING.

Samples for test furnished on application. SEND FOR OUR CATALOGUE.

OSGOOD SAYEN,

Main Office, Arcade Building,
 Store and Warerooms, 131 Market Street,

Philadelphia



Jerome & Elliott, 35 S Canal, Chicago, Ill.
Johnson, Henry Co., Jersey City, N. J.
Knowlton, Geo. W. Rubber Co. (and Spiral Square & Round), 88 Broad, Boston, Mass.
Lane, Rodney D. Packing Co., 484 Johnson av., Jersey City, N. J.
Lubron Mfg. Co. ("Lubron"), 88 Broad, Boston, Mass.

Magnolia Metal Co., 260 W B'way, New York
Morgan & Wright (Inc.) ("Morganite," "Nagromi," "Cadillac," "M-W" High Pressure & Hydraulic, etc.), 226 Jefferson av, Detroit, Mich.

New York Belting & Packing Co. (Ltd.), (Rubber), 91 Chambers, New York
Peerless Metal Mfg. Co., Pittsburg, Pa.
Piley Packing & Flue Brush Co., 606 S 3d, St. Louis, Mo.

Pilloid Packing Co. (Pilloid's for Steam, Water & Air), Swanton, O.
Quaker City Rubber Co. (Chas. A. Daniel, Prop.) ("Daniel's" P. P. P.), 629 Market, Phila., Pa.

Revere Rubber Co. (Revere Lubricated), 77 Bedford, Boston, Mass.

STRONG MACHINERY & SUPPLY CO.
("Strong's Veri Best" Extra High Pressure, Piston & Valve Rod), 48 Franklin, New York. (See adv. index, end of book)
Voorhes Rubber Mfg. Co., Jersey City, N. J.
Wing, J. T. & Co., 19 Woodward av, Detroit, Mich.

*Packing (Sheet)

AMERICAN-GOETZE GASKET & Packing Co. ("Goetzerit"), 725 E 141st, New York. (See adv. index, end of book)
Crandall Packing Co., Palmyra, N. Y.
STRONG MACHINERY & SUPPLY CO.
("Strong's I. O. P. Dichtungsgummi"), 48 Franklin, New York. (See adv. index, end of book)

*Packing Sticks

STRONG MACHINERY & SUPPLY CO.
("Strong's Handy"), 48 Franklin, New York. (See adv. index, end of book)

*Packing (Valve Stem)

SWAIN LUBRICATOR CO., cor Lake & S Water, Chicago, Ill (See adv. index, end of book)

*Packing (Wire Rope Pulley)

BOSTON BELTING CO., 260 Devonshire, Boston, Mass., & 100 Reade, New York. (See adv. index & branch offices, end of book)

Pail Ears

Berger Bros. Co. (Pail Ears, Pans, Kettles, etc.), 237 Arch, Phila., Pa.
Dover Stamping & Mfg. Co., Cambridge, Mass.
Cobb & Drew, Plymouth, Mass., & Rock Falls, Ill.

Forsyth Mfg. Co., 308 Terrace, Buffalo, N. Y.
Hunt, Helm, Ferris & Co. ("Star"), Harvard, Ill.

Plume & Atwood Mfg. Co., Waterbury, Conn.
Townsend, G. G., Winchendon, Mass.
Troy Nickel Works, Albany, N. Y.
Troy Stamping Works, Troy, N. Y.
WILSON, F. CORTEZ & CO. (Tin), 239 Lake, Chicago, Ill. (See adv. index, end of book)

Pails (Copper)

Atlantic Stamping Co. (Polished, Nickel-plated etc.), Rochester, N. Y.

Pails (Dairy)

Atlantic Stamping Co. ("Atlantic" Tin), Rochester, N. Y.

Pails (Fibre)

Barron, Jas. S. & Co., 127 Franklin, New York
Cordley & Hayes (Wholesale Jobbers), 172 Duane, New York
Easton Fibre Co., Easton, Pa.
Industrial Fibre Co., Niagara Falls, N. Y.
Vulcanite Fibre Co., Wilmington, Del.

Pails (Foundry)

American Wooden Ware Mfg. Co. (White Oak), Toledo, O.

Pails (Galvanized Iron)

Atlantic Stamping Co., Rochester, N. Y.
Briscoe Mfg. Co., Detroit, Mich.
Buhl Stamping Co., Detroit, Mich.
Dover Stamping & Mfg. Co., Cambridge, Mass.
Geuber & Paeschke, Mfg. Co., Milwaukee, Wis.

Iron Clad Mfg. Co., 204 Varet, Brooklyn, N. Y.
LYON METALLIC MFG. CO., Aurora, Ill. (See adv. index, end of book)

National Enameling & Stamping Co., 81 Fulton, N. Y.

Shepard, Sidney & Co., Buffalo, N. Y.
Troy Stamping Works, Troy, N. Y.
Victor Stamping Co. (Stock, Tap, Water, Fire, etc.), Twilight, O.

Wheeling Corrugating Co., Wheeling, W. Va.
WILSON, F. CORTEZ & CO., 239 Lake, Chicago, Ill. (See adv. index, end of book)

Pails (Garbage)

Atlantic Stamping Co., Rochester, N. Y.
Briscoe Mfg. Co. ("O-Rib-O"), Detroit, Mich.
Dover Stamping & Mfg. Co. (Galvanized), Cambridge, Mass.

Iron Clad Mfg. Co., 204 Varet, Brooklyn, N. Y.
LYON METALLIC MFG. CO., Aurora, Ill. (See adv. index, end of book)

Pails (Milk Strainer, Etc.)

Atlantic Stamping Co. ("Atlantic" All Tin), Rochester, N. Y.
LYON METALLIC MFG. CO., Aurora, Ill. (See adv. index, end of book)

WILSON, F. CORTEZ & CO., 239 Lake, Chicago, Ill. (See adv. index, end of book)

Pails (Steel, Shop)

Clark, W. J. Co (Sheet Steel), Salem, O.
Cleveland Wire Spring Co. (Sheet Steel), Cleveland, O.
Durlach, I. (for Gravel, Sand, Shop, etc.), 54 Vesey, New York

LYON METALLIC MFG. CO., Aurora, Ill. (See adv. index, end of book)

Ohio Mfg. Co., Painesville, Ohio
WILSON, F. CORTEZ & CO., 239 Lake, Chicago, Ill. (See adv. index, end of book)

Pails (Tar)

Durlach, I (for Roofers, Contractors, etc.), 54 Vesey, New York

Pails (Tin, Lard)

Bertels, W. B. & Son Co., Wilkes-Barre, Pa.
Brecht, B. S. Co., N 12th & Cass av., St. Louis, Mo.
Trethaway Bros., Parsons, Pa.

Pails & Buckets (Wood)

American Woodenware Mfg. Co. (White Oak Stable, Derrick & Foundry), Toledo, O.
Blousfield Woodenware Co., Minneapolis, Minn.
Buckeye Churn Co. ("Eureka," "Climax," "Buckeye," "Oak Horse"), Sidney, O.
California Barrel Co., San Francisco, Cal.
Hightower Box & Tank Co., Atlanta, Ga.
Menasha Wooden Ware Co., Menasha, Wis.
Mengel Box Co., Louisville, Ky.
Ohio Pail Co., Middlefield, O.
Paepcke-Lelelit Lumber Co., Chicago, Ill.
Peirce, W. E. & Co., Milford, N. H.
Prewitt-Spurr Mfg. Co., Nashville, Tenn.
Richmond Cedar Works, Richmond, Va.
Prince-Spurr Mfg. Co. (Red Cedar, Ash, etc.), Nashville, Tenn.
St. Louis Wooden Ware Works, St. Louis, Mo.

Paint Brushes

(See Brushes, Paint).

*Paint Burners

American Stove Co. ("Reliable" Gasoline), 414 N. 6th, St. Louis Mo.
Best Light Co., Canton, O.
BERNZ, OTTO, S., 13th & S. Orange av, Newark, N. J. See adv. index, end of book

CHICAGO PNEUMATIC TOOL CO.
("Tyman," Operated by Compressed Air), Fisher bldg., Chicago, Ill. (See adv. index, & branch offices, end of book)
Clayton & Lambert Mfg. Co., Detroit, Mich.

MacLeod, Walter & Co., 213 E Pearl, Cincinnati, O.
Turner Brass Works (Gasoline), 66 Michigan, Chicago, Ill.
Union Heater Supply Co. (Gasoline), 15 Macomb, Detroit, Mich.

*Paint for Oil Cloth

WILBUR, JOB CO., Office: Providence, R. I. Factory, Phila., Pa. (See adv. below)

*Paint Grinders (Dry Material)

WILBUR, JOB CO., Office: Providence, R. I. Factory, Phila., Pa. (See adv. below)

J. Wilbur Company, DRY MINERAL PAINT GRINDERS

Also job grinding in carload lots. Specialties: Talckene, Black Filler, American Ochre and slates (red and gray), powdered dry.
Siding on P. R. R. and P. & R. railroads.

Factory, PHILADELPHIA, PA.
Office, PROVIDENCE, R. I.

Paint Grinding & Mixing Machinery

(See Machinery)

Paint Mfrs.

(For special kinds of Paints see classifications following this trade.)

ALABAMA.

BIRMINGHAM—Birmingham Paint Mills
Iron City Paint Mills

CALIFORNIA.

BAKERSFIELD—Jewett-Blodgett Oil Co.
CHICO—Chico Ochre & Mineral Paint Co.
LOS ANGELES—Bowers, U. R. & Sons, 942 S Main

Brininstool Lubricating Co., 2003 Palmetto
Clipper, A. J. & Co., 315 S. B'way.
Densmore-Stahler Refining Co.
Southern Refining Co.
Whittier-Coburn Co., 165 N Los Angeles
OAKLAND—Buswell Paint Co.
Paraffine Paint Co.
SAN FRANCISCO—Bass-Hueter Paint Co., 1532 Market
DIXON, JOS. CRUCIBLE CO.
(Graphite). (See adv. index, end of book)
Fuller, W. P. & Co., Beale & Mission.
Nason, R. N. & Co., 15th & Utah.
Pacific Oil & Lead Works, 155 Townsend
Paraffine Paint Co., Guerrero, nr. 14th.
Union Oil Co. of Cal., Mills bldg.
Western Graphite Co., Call bldg.
Yates & Co., 762 Folsom

COLORADO.

DENVER—Cooper, Geo. W., 1928 Blake
Humphrey-Jones Paint Co., 1621 Arapahoe
Hydro Carbon Mfg. Co. ("Elateroid" Coating)
James, B. L. Mercantile & Mfg. Co. (The), Arapahoe
Reitze Wall Paper & Paint Co., 1647 Welton

CONNECTICUT.

BRIDGEPORT—Crockett, D. B. Co.
ESSEX—Stevens, George I.
EAST NORWALK—Vacuum Varnish & Chemical Co.
NEW MILFORD—Bridgeport Wood Finishing Co.
NEW LONDON—American Elastic Roof Paint Co.
NORWICH—Fiske, Chas. S., 40 Hobart av
Hammond-Boynton Paint & Chemical Co. ("Ferox" Iron Oxide)
Mohawk Paint & Chemical Co. ("Ferox" Iron Oxide)
WATERBURY—Wright, E. E. (Roof), 59 Centre

DELAWARE.

WILMINGTON—Bradford, Jas. Co.
Bryan, Jas. M. & W. R.
Cartmell, Thos. B.

DISTRICT OF COLUMBIA.

WASHINGTON—Grafton & Son, 714 9th, N W

GEORGIA.

ATLANTA—Southern Roofing Co. (Roof)
Parlan Paint Co., 41 E Alabama
Tripod Paint Co., 37 N Pryor
AUGUSTA—O'Connor & Schweers Paint Co.
SAVANNAH—Consumers Paint & Varnish W'ks

ILLINOIS.

AURORA—Akron Mining, Milling & Mfg. Co.
CHICAGO—Adams & Elting Co., 155 W Wash'n
Allen Paint & Putty Co., 196 S Clinton
Aluminum Paint & Polish Co., 701 W Lake st
Alston Mfg. Co., 30 Currier
Ansbacher, A. B. Co., 2633 Dearborn
Armstrong Paint & Varnish Works, 1203 S
Asphaltum & Ruhher Co., Woman's Temple
Barrett Mfg. Co., Merchants' Loan & Trust
Bradley & Vrooman Co., 2633 Dearborn
Bridgeport Wood Finishing Co. (of New
Milford, Conn.), 70 W Lake
CARPENTER, GEO. B. & CO., 202 S
Water. (See adv. index, end of hook)
Carter White Lead Co., W 121st c S Peoria
Chicago Fire Proof Covering Co., 18 N Canal
Chicago Graphite Mfg. Co. (Graphite, etc.),
9 Jackson houl
Chicago White Lead & Oil Co., N Greene c
Chicago Wood Finishing Co., 259 Elston av
Cullen, F. C. & Co., 704 W Lake st
Depew Carbon Paint Co., 1507 N Lincoln
Detroit Graphite Mfg. Co. (of Detroit,
Mich.), Monadnock bldg
Detroit White Lead Works, 192 Kinzie
Devoe, F. W. & C. T. Reynolds Co., 176
DIXON, **JOS. CRUCIBLE CO.**
(Graphite,) Monadnock hlk. (See adv. index,
end of hook)
Enterprise Paint Mfg. Co., Peoria & Van
Ernecke & Salmstein, 629 N Halsted
Eureka Elastic Paint Co., 154 Van Buren
Freund Bros. Mfg. Co., 3140 S Canal
Fuller & Fuller Co., 220 Randolph
Haines, E. H., 503 Ashland hlk
Hanna & Andrus Mfg. Co., Weed & Shef-
field av
Harrison Bros. & Co. (of Phila., Pa.), 27
Heath & Milligan Mfg. Co., 170 Randolph
Illinois Paint Mfg. Co., 502 S Homan
Illinois Steel Co., Rookery bldg
Inland White Lead Co., 361 S Clinton
Johnson Magnetic Paint Co., 320 Dearborn
Lehon Co., W 43d & Lincoln
Lucas, John & Co., 600 S Morgan
Masury, John W. & Son, 1719 Armour av
Moore, Benj. & Co. (of Brooklyn, N. Y.),
111 N Green
Morrison, Chas. C. (Color Cards for Mixed
Paints, etc.), 363 S Clinton
National Lead Co., 1510 State
Nubian Paint & Varnish Co., N 51st av, n
w c Bloomingdale av
Otley Mfg. Co. ("Eureka"), 855 Winchester
Patent Vulcanite Roofing Co. (Vulcanite), 625
Patterson, Sargent & Co., 2026 Lumher
Pitkin, Geo. W. Co., Fulton c Carpenter
Retardo Fire Proofing Co. ("Retardo," Fire
Proof), 141 S Clinton
Rubber Paint Co., 154 W Van Buren
Senour Mfg. Co., 2516 Quarry
Sail Mountain Asbestos Mfg. Co., 123 Ontario
Standard Paint Co. (of New York), 188
Thurston, F. W. & Co., 29 River Madison
United States Gypsum Co. (Alabestros Fire-
proof), 184 La Salle
Vilas Bros., 227 5th av
Wadsworth-Howland Co. (Inc.), Indiana av
Warren Paint Co., 64 W Van Buren
Watson, George E. Co., 108 Lake
Western Roofing & Supply Co., 177 Randolph
Williams, T. D., 155 La Salle

EAST ST. LOUIS—Mephram, Geo. S. & Co.
ROCKFORD—Jonson Paint Works

INDIANA.

ALEXANDRIA—American Insulating Material
Mfg. Co. (Sawyers' Popular Brand)
INDIANAPOLIS—Ajax Paint Co. ("Wood-
pecker"), 920 Biddle
Burdal, A. Co., 102 S Meridian
Frost, Jno. C., 1506 N Penn
Indianapolis Paint & Color Co., 240 Mass. av
Lily Varnish Co., 670 Rose
McDade, S., 3530 N Illinois
Sargeant Paint & Color Co., Mass. av c New
RICHMOND—Richmond Paint Co.
VALPARAISO—Parker, Chas. H. Co.

IOWA.

DAVENPORT—Stearns Paint Mfg. Co.
DES MOINES—Elaterite Paint & Mfg. Co
FORT DODGE—Iowa Paint Mfg. Co.
PELLA—Van Nimwegen, H. & Son
WAVERLY—Page Paint Co.

KANSAS.

GLASCO—Brierley & Hare
KANSAS CITY—Cutler & Nielson Paint & Color
Co.

KENTUCKY.

COVINGTON—Boehmer & Pohlmann
GEORGETOWN—Indian Refining Co.
LOUISVILLE—Bridges, Smith & Co., 233 W
Long, C. R., Jr., Co., 628 E Main
Louisville Lead & Color Co., 15th c Lytle
Louisville Paint Mfg. Co., 345 W Main
National Lead Co., 9th, bet Main & River
Sterling Paint & Color Co., 112 15th

LOUISIANA.

NEW ORLEANS—American Paint Works, 2215
Barrett Mfg. Co., Hibernia bldg S Water
Kracke & Flanders, 630 Gravier
McWilliams, R., Ltd., 342 Camp

MAINE.

PORTLAND—Burgess, Fohes & Co.

MARYLAND.

BALTIMORE—Baltimore Copper Paint Co., 508
Baltimore Dry Paint Works, Ostend c Stock-
Davis, H. B. Paint Co., Keyser bldg
Eherson, A. A. & Co., 102 E York
Foy, Edw. L. & Co. (Roof), 16 W Camden
Hanline Bros., 23 S Howard
Hirschberg, Hollender & Co., 25 W Pratt
Kaufman, Edw. L. & Co., c Lafayette &
Kroeger Bros., 880 McKim
Maryland Paint & Color Works, 220 North
Murphy, Chas. J. & Co., 332 N Calvert
National Lead Co., 410 Hanover
Poppelstein, G. & N., 220 North
Ruhher Paint Co. (Warner & Wooster)
Thomas Paint Mfg. Co., 826 W Baltimore

MASSACHUSETTS.

BOSTON—American Bridge & Structural Pre-
Billings, King & Co., 153 Congress
Bird, A. J. & W. & C. (Magnite), 34 India
Briggs, John & Co., 14 Wash'n
CABOT, SAMUEL, 141 Milk. (See
Chadwick-Boston Lead Co., 162 Congress
Chilton Paint Co., 120 High
Detroit Graphite Mfg. Co. of Detroit, Tre-
Dexter Bros., 103 Broad
DIXON, JOS. CRUCIBLE CO.
(Graphite), 101 Tremont. (See adv. index,
end of hook)
Gilman, C. H., 103 Merrimac
Harrison Bros. & Co. (of Phila., Pa.), 112
Heath & Milligan Mfg. Co., 275 Congress
Hoffman, J. W. Co., 438 Atlantic av
Massachusetts Chemical Co., 170 Summer
Means & Thatcher, 6 Custom House
National Lead Co., 57 Broad
Prince, James H. Paint Co., 5 Lancaster
Seaver & Co., 120 Milk
Standard Paint Co. (of New York), Mason
Stickney, J. W. & Co., 31 Milk
Vogt, Paul & Sons, 110 Tremont
Wadsworth, Howland & Co. (Inc.), 84 Wash'n
Wheeler, Asabel, 52 High
Wiley, I. H. & Co., 69 Sudbury
Woodbury Paint Co., 101 Tremont

DIGHTON—Anchor Color Works
EAST WALPOLE—Bird, F. W. & Son ("Parine")
GLOUCESTER—Henderson & Johnson
Tarr, Jas. H. (Copper & Iron Marine), Rocky
Tarr & Wonson (Marine), Rocky Neck
MALDEN—Wadsworth, Howland & Co.
MERRIMAC—Barbeau, Chas. O. (Carriage)
NEW BEDFORD—Brightman Bros., 146 Front
Kirby, George, Jr., & Co., Wall n Acushnet
NEWBURYPORT—Plummer, C. E.
SALEM—Phibbrick, L. B.
SPRINGFIELD—Hampden Paint & Chemical
WATERTOWN—Waterproof Paint Co.
WELLESLEY—Woods, Henry Sons Co.

MICHIGAN.

DETROIT—Acme White Lead & Color Works,
St. Aubin av & M. C. R. R.
BERRY BROS. (See adv. index,
end of hook)
Boydell Bros. White Lead & Color Co., 40
Detroit Graphite Mfg. Co., 10 12th
Detroit Refining Co., Majestic bldg
Detroit White Lead Works, 532 Milwau-
Ditzler Color Co., 18 Balto av, W
Frazer Paint Co.
Frontier Paint Co. Newberry bldg
National Lead Co., 81 Woodbridge, W
North American Graphite Paint Co., Imperial
Peninsular Paint & Varnish Co., St. Aubin
FLINT—Michigan Paint Co. (Graphite)
HUDSON—Hook-Hardie Co. ("Stay There" Fire
& Waterproof)
KALAMAZOO—Lakey, A. L. Co. (Mixed)
SAGINAW—Asphalt Roofing Co.
U. S. Graphite Co.

MINNESOTA.

MINNEAPOLIS—Atlas Paint Mfg. Co., 515 1st
Maire Paint Co. (All Minerals), 242 1st av,
Minn. Linseed Oil Paint Co., 1101 S 3d
ST. PAUL—Blood, T. L. & Co., 413 Wacouta
Northern Paint Co., 318 E 7th

MISSOURI.

ST. LOUIS—Becker-Moore Paint Co., 1015 Lucas
DIXON, JOS. CRUCIBLE CO.
(Graphite), Victoria bldg. (See adv. index,
end of hook)
Eherson, A. A. & Co., 20th & Pine
Graham Paper Co. ("Martha" Jobbers)
Great Western Paint & Color Co., 814 Man-
Hammar, F. Paint Co., 6th & Locust
International Steel Post Co., 719 Chestnut
Kent & Purdy Paint Co., 701 N 2d
Mound City Paint & Color Co., 813 N 6th
National Lead Co., Clark av & 10th
Nulsen, Klein & Krause Mfg. Co.
Platt & Thornburgh Paint Co., 620 Frank-
Sterrett, J. D. & Co., 809 N 2d
St. Louis Surfacers & Paint Co. ("Koon's"
Surfacers), 26 S Commercial
Thomas Mfg. Co., 215 S Main
Trinidad Asphalt Mfg. Co., 320 S 21st
Vane-Calvert Paint Co., 823 Locust

NEBRASKA.

LINCOLN—Lincoln Paint & Color Co.
Nebraska Paint & Lead Co.
OMAHA—National Oil & Paint Co., 1015 Jones

NEW JERSEY.

RAYONNE—Bayonne Paint & Color Works, 449
ROONTON—Colonial Works
BRIDGETON—Shaw, John P. & Co.
CAMDEN—Fibrous Paint Co.
Fox Elastic Paint Co.
Schrack & Co.
GIRRSBORO—Lucas, John & Co.
HOBOKEN—Pfug, Albert & Co., Willow av
JERSEY CITY—**DIXON, JOS. CRUCIBLE**
Co. (Graphite) (See adv. index, end of
KEARNY—Walker-Cromwell Co.
New Jersey Paint Works (Loudenhough, Hy.
C., Prop.), (Oils Paints & Antifouling Paints
& Copper Paints & Marine Paints), Wayne
Stowell Mfg. Co., 454 West Side av
Woolsev, C. A. Paint & Color Co., 500 Grand
MILLVILLE—Peterson, Alex. H.

NEWARK—Ackerman, Henry, 578 5th
Cawley, Clark & Co., 278 Passaic
Eureka Chemical Co., 5 Howard
Heiler & Merz Co., ft of Hamburg pl rd
Herrmann, Morris & Co., 878 Prospect av
Patton Paint Co., ft. Chester av
Rice, S. E. M. Filler Co. (Flat White
Enameled Primer), 21 Abel
NEW BRUNSWICK—Watson, J. D. & Co.
PATERSON—Norwood & Berdan
RARITAN—New Jersey Enamel Paint Co.

NEW YORK.

ALBANY—Standard Tin & Waterproof Paint
Co., 3811 B'way
BROOKLYN—(See New York City, Borough of
Brooklyn)
BUFFALO—Buffalo Enamel & Stain Co., 72 W
Genesee
Buffalo Oil, Paint & Varnish Co., 1317 Elk
McDougall White Lead Works, White hldg
Mets, P. A. Paint Co., 15 Oak Grove av
National Lead Co., Clinton & Oak
CLINTON—Clinton Metallic Paint Co.
COLLEGE POINT—(See New York City, Bor-
ough of Queens)
ELLENVILLE—Kimhle & Hoonheck Co.
ELMIRA—Elmira Paint Works
FISHKILL ON THE HUDSON—Hammond,
Beujamin
LONG ISLAND CITY—(See New York City, Bor-
ough of Queens)

NEW YORK CITY.

Borough of Brooklyn.

BROOKLYN—Averill Paint Co., 240 Plymouth
Century Paint & Wall Paper Co., 95 S 5th
Cole & Kuhis, 719 3d av
Devoe, F. W. & C. T. Reynolds Co., 565
Smith
Holzapfel's Composition Co. (Ltd.), 175 Beard
Ingersoll, O. W., 243 Plymouth
JOHNSTON, H. M. (Cold Water),
60 Washington av. (See adv. index, end
of hook)
Longman & Martinez, 231 N 9th
McCafferty, Jas. A., N 9th
McNaughton, Wm. D., 185 Oakland
McQuade, John & Co. (Stevens' Brick Reds,
etc.), 416 Marcy av
Masury, John W. & Son, 50 Jay
Moore, Benjamin & Co., 262 Water
Phillips, John B. Mfg. Co., 80 9th
Pierce, F. O. Co., 30 Tiffany pl
Rahtjen's Am. Composition Co., 69 Van Dyke
Smith, J. Lee & Co., 700 Hicks
Stewart, Wm. H. Mfg. Co., 65 Delevan

Boroughs of Manhattan & Bronx.

NEW YORK—American Graphite Co., 6 Lib-
erty pl
American Lucol Co., 1402 B'way
Anderton, Robert J., 107 4th av
Baltimore Copper Paint Co., 38 South
Barrett Mfg. Co., 17 Battery pl
Bass, A. R. & Son, 140 Maiden la
Billings, King & Co., 438 Pearl
Binney & Smith, 81 Fulton
**BLANCHITE CO. (Ltd.) ("Blanch-
ite"),** 139 Charles. (See adv. index, end
of book)
Bridgeport Wood Finishing Co., 55 Fulton
**BURNS, C. L., 156 5th av (See adv.
index, end of book)**
Casein Co. of America, 5 Nassau
Cerion Co., 11 B'way
Childs, Chas. M. & Co., 225 Pearl
Chilton Paint Co., 100 William
Columbia Refining Co. ("Aqualite" Fire &
Weather Proof), 32 B'way
Coulston, J. W. & Co., 136 Liberty
Day-Galpin Mfg. Co., 55 W 57th
De Ronde, Frank S. Co., 46 Cliff
Detroit Graphite Mfg. Co. (of Detroit,
Mich.), 141 B'way
Devoe, F. W. & C. T. Reynolds Co., 103
Fulton
Dexter Bros. Co. (of Boston, Mass.), 22
E 22d
Dick's Compositions Co. (Ltd.), 81 New
DIXON, JOS. CRUCIBLE CO., 68
Reade. (See adv. index, end of book)
Doggett, Stanley, 101 Beekman
Dunham, Thomas C., 68 Murray
Elaterite Paint & Mfg. Co., 289 4th av
Elko Paint Co., 136 Liberty
Eugel, Jno. & Co. (Gold), 137 W B'way
Feigel, M. & Bro., 147 Wooster
Fox, M. Ewing & Co. (Permanite), E 136th
Freed, David, 458 Pearl
Fuller, W. P. & Co., 100 William
Gardiner, Geo. N. & Son, 15 William

Gellen & Co., 155 Maiden la
Gerstendorfer Bros., 231 E 42d
Gilmour, R. M. Mfg. Co., 105 John
Graves, N. Z. & Co., 296 Pearl
Gross & Horn, 249 Front
Grote, George W. & Co., 432 E 102d
Grothwell, A. ("Mogul"), 136 Liberty
Harrison Bros. & Co. (Inc.), 117 Fulton
Heller & Merz Co., 22 Cliff
Holzapfel's Am. Compositions Co., 18 B'way
Husley, Doughtley & Co., 229 Front
Jarhoe, George W., 29 B'way
Johnston & Oswald, 178 Fulton
Leggett & Bro., 301 Pearl
Longman & Martinez, 207 Pearl
Lowe Bros. Co., 73 Beekman
Lucas, John & Co., 89 Maiden lane
Manhattan Color Works ("Tem-Po-Va"), 197
Martin & Co., 192 Water Amsterdam av
Maynz & Co., 13 Water
Menzell, Wm. & Son, 68 Broad
Messner Paint & Color Works, 383 Pearl
Miller, Clifford L. & Co. (Minwax), 110 E 23d
Mitchell, Wm. E. G., 88 Maiden la
Moran, John J., 209 E 51st
Moser, Charles Co., 149 Washington
Nansen Composition & Paint Co., 135 Wil-
liam
National Lead Co., 100 William
New York Roof Paint Co., 100 William
Patterson-Sargent Co., 42 Hudson
**PERSON & CO., 160 5th av. (See
adv. index, end of hook)**

Pierce, F. O. Co., 170 Fulton
Piper, George W., 54 South
Prince Mfg. Co. (Metallic Dry Paints & Col-
ors), 2 Cliff

Rahtjen's Am. Composition Co., 1 B'way
Saunders, Theo. Co., 150 Nassau
Schlegel, Oscar Mfg. Co., 111 E 12th
SMITH, EDW. & CO., 45 B'way.
(See adv. index, end of book)
Smith, J. Lee & Co., 59 Frankfort
Standard Graphite Co. (Graphite), 11
B'way

Standard Paint Co., 100 William
Stewart, W. H. Mfg. Co., 81 Fulton
Tiemann, D. F. & Co., 44 Duane
Toch Bros., 320 5th av
Ulich, Paul, 83 Fulton
Water Paint Co. of America, 11 Pine
Wetherill, S. P. Co., 100 William
Whitaker, W. H., 245 Front
Williams, Samuel J., 80 Broad
Winn, Wm. R., 143 Maiden la
Wix, Charles & Co., 133 Reade
ZIBELL DAMP RESISTING PAINT
Co., 273 Water. (See adv. index, end of
hook)

Borough of Richmond.

NEW BRIGHTON—MURALO COMPANY.
(See adv. index, end of hook)
Rariton Paint Co.

Borough of Queens.

COLLEGE POINT—Chilton Mfg. Co.
LONG ISLAND CITY—Willey, Charles A., Nott
av
(END OF NEW YORK CITY)
NIAGARA FALLS—International Acheson
Graphite Co.
OGDENSBURG—Rossie Iron Ore Paint Co.
(Metallic)
RANDOLPH—Elko Paint Co. (Enamel Oxide)
ROCHESTER—Clark Paint & Oil Co., 131 State
SCHENECTADY—Engleman & Bellinger, 212 S
Centre
SYRACUSE—Paragon Plaster Co.
TROY—Connors, Wm. Paint Works, 669 River
Troy Cold Water Kalsomine Co., 22 Paine
WAVERLY—Thomas, A. H. Paint Co.

NORTH CAROLINA.

GREENBORO—Southern Cold Water Paint Co.
HIGHPOINT—Alexander, H.
WILMINGTON—Pannill Paint Co.
Spirittine Chemical Co.

OHIO.

BARBERTON—Carrara Paint Co.
CANTON—Arlington Mfg. Co.
Canton Paint & Varnish Co.
Goheen Mfg. Co. (Carbonizing Coating)
CINCINNATI—Allen Anti-Rust Mfg. Co., 439
Barron, Boyle Co., 230 E 5th
Bolge, Louis H. & Co., 2311 Gilbert av
Bradford Belting Co., 2d & Walnut
Bradley & Co., 1518 Gest
Chatfield & Woods, 347 W 4th
Eagle White Lead Co., 1030 B'way
Globe Chemical Co., Deer Creek nr Court
Irldian Paint Co., 225 E 3d
Kolhe, John Co., 229 W 5th

Long, Edwin & Co., 845 Clinton
Mamolith Carbon Paint Co.
Meyer, E. H. & Co., 906 Walnut
Moser, Chas. & Co., 213 Main
National Lead Co., 7th & Freeman av
Peale, W. C. & Bro., 904 Central av
Phoenix Paint Co., 1518 Gest
Reeder, Jno. S. (Cold Japan), Union Trust
Richmond Bros., 117 E 6th hldg
Singleton, Ruffner & Co. (Asphalt), 8th &
Plum

Washburn, Ira D. Co., 1010 Central av
Western Paint Co., 117 E 6th
CLEVELAND—American Graphite Co. ("Graph-
aule"), Williamson hldg
Atlantic Paint Co., Atlantic & Penna. rd
Atlantic Refining Co. (Elastic Carbon),
Citizens' hldg.

Billings-Chaplin Co., 1163 E 40th
Cleveland Stone Co., Hickox hldg
Cleveland Window Glass Co., 232 Champlain
Colonial Paint Co., Marquette nr St. Clair
Forest City Paint & Varnish Co., 3334 Lake-
side av

Garry Iron & Steel Co. (Metallic)
Hascall Paint Co., 1314 W 70th
McNairy, A. B. & Co., 1163 E 40th
National Paint & Varnish Co., 57 St Clair
av, N W
Paragon Insulating Co., Erie R. R. nr Forest
Patterson Sargent Co., 1304 E 38th
Peerless Paint & Varnish Co., 1039 W 11th
Sherwin-Williams Co., 100 Canal
Ullmann & Philpott Mfg. Co., 1592 Merwin
N. W.

COLUMBUS—Columbus Paint Mfg. Co., 272
Kimhall

Hanna Paint Mfg. Co., 111 E Long
Ironsides Co., 248 W Mound
Orr, Dean & Barry Co., Locust & Ludlow
DAYTON—Barrett, Chas. A. P. Co., 118 E 3d
Jewell & Vinson, 435 E 5th
Kay & Ess Co., Leo & Kiser
Lowe Bros. Co., 452 E 3d

FINDLAY—Ohio Paint & Varnish Co.
HAMILTON—Reeder, John S.
LOCKLAND—Carey, Philip Mfg. Co.
MARIETTA—Marietta Paint & Color Co.
PIQUA—Piqua Paint & Putty Co. (House, Car-
riage, Enamel, etc.)

PLAINVILLE—Ferris, O. J.
TIFFIN—Tiffin Hydro Carbon Paint & Varnish
Co.

TOLEDO—Buckeye Paint & Varnish Co., 719
S 15th

Dolphin Color Works, 501 Superior
National Cement & Ruhher Mfg. Co. (Pure
Carbon), 3055 Monroe
Neel, Henry Glass & Paint Co., 418 Monroe
WARREN—Warren Paint Co.

OREGON.

PORTLAND—Beach, F. E. & Co., 135 1st
Fisher, Thorsen & Co., 160 Front

PENNSYLVANIA.

ALLEGHENY—Eagle Paint & Varnish Works,
225 Grant av
National Lead & Oil Co. (Quick Drying),
Second National Bank hldg
Nevin, T. H. Co., Prehle & Island avs
Pittsburg Iron Paint Co., 867 S Canal
Wheeler, Henry & Son, 119 Ohio, W
Wisconsin Graphite Co.
ALLENTOWN—Allentown Mfg. Co.
Princes' Metallic Paint Co. ("Princes' &
Rutherford's" Dry Metallic, Miners' &
Mfrs.)
BETHLEHEM—Erwin, Henry & Sons (Me-
talic)
Garfield Paint & Oil Co.
Semple, Frank G. (Mixed)
BRIDGEPORT—Protectus Co.
EASTON—Williams, C. K. & Co. (Dry)
ELLWOOD CITY—Crescent Compound Mfg. Co.
ERIE—WATSON, H. F. CO. (See adv.
index & branch offices, end of hook)
FRANKLIN—Riesenman Mfg. Co. (Ltd.)

When writing to firms whose
names appear in this book
please mention

HENDRICKS'
COMMERCIAL REGISTER.

GLENSHAW—Specialty Paint Co.
 JAMESTOWN—Jamestown Paint & Varnish Co.
 JOHNSTOWN—Cambria Paint & Color Co.
 LANCASTER—Hawthorn, A. F., Roof Paint Co.
 Lancaster Paint & Glass Co.
 Schroeder Paint Co.
 MUNCY—Keystone Paint & Filler Co.
 NEW CASTLE—New Castle Paint & Varnish Co.
 PHILADELPHIA—American Bitumastic Enamels Co., 311½ Walnut
ASBESTOS & MAGNESIA MFG. Co., Land Title bldg. (See adv. index, end of book)
 Barber Asphalt Paving Co. (Titekote)
 Barrett-Lindemann Co., 1400 Fkd av
 Barrett Mfg. Co., Land Title bldg
BINSWANGER, B. & CO., 115 N 4th
 Bird, J. A. & W. & Co., Weightman bldg
 Bourse Exhibition, 4th & 5th, bet. Chestnut & Market
 Bowen's, S. Son, N 4th c Sedgely av
 Brockley, John B. & Co., 409 N 3d
 Butterworth, C. H. Drug & Paint Co., 62 N Front
 Conner, Jas. G. & Co. (Battery Block)
 Cure Rubber Paint Co., 113 S Gay
 Day Light Coating Co. (Ltd.), 24 S 7th
 Devoe, F. W. & C. T. Raynolds Co., 437 Arch
DIXON, JOS. CRUCIBLE CO., 1020 Arch. (See adv. index, end of book)
 Felton, Sibley & Co., 140 N 4th
 Flexible Compound Co., 3607 Haverford av
FRENCH, SAMUEL H. & CO., 4th c Callowhill. (See adv. index, end of book)
 Graves, N. Z. & Co., 3200 S Broad
 Grogan, H. F. & Co., 2113 E Sergeant
 Grogan, John L. Wood & Iron Finishing Co., 122 S American
 Harrison Bros. & Co., 35th & Gray's Ferry rd
 Holmes Fibre Graphite Mfg. Co., 5155 Wakefield, Gtn
 Howell, C. H. & Co., 212 Race
 Lewis, John T. & Bros. Co., 231 S Front
 Lucas, John & Co., 322 Race
 Maxwell, John & Co., 1406 S Front
 Nice, Eugene E., 272 S 2d
 Penna. Standard Rubber Paint Co., West End Trust bldg

Phoenix Paint & Varnish Co., 124 Market
 Protectus Company, North American bldg
 Rambo, Theo. G., 1134 Beach
RINALD BROS., 1142 N Hancock. (See adv. index, end of book)
 Solfire Paint Co., 115 N 4th
 Sauter, F. W. & Co., 909 N 9th
 Schrack, C. & Co., 152 N 5th
 Shoemaker, Robert & Co., 201 N 4th
 Steelman & Archer Co. (Inc.), 16 S Front
THOMSON WOOD FINISHING CO., 115 N 4th. (See adv. index, end of book)
 Wetherill, G. D. & Co., 114 N Front
 Wetherill, S. P. & Co., Penn Mutual bldg
 Wetherill & Bros., S 30th nr Chestnut
 Wilbur, Job. Co. (Dry), E Tioga c N Del
 Woolsey, C. A. Paint & Color Co., 118 N Delaware av
 Woodhouse, Samuel F., c Unity & Franklin Fkd
 Yarnall, H. E. & G. D., 1026 Race
 Zementine Mfg. Works, 1242 N 31st
PITTSBURG—American Cold Japan Co. (Bridges, Roofs, Stacks, etc.)
 American Supply Co., 3200 2d av
ATLAS PAINT CO. (Ltd.), 2638 Liberty av. (See adv. index, end of book)
 Davis Lead Co., Park bldg
 De Noon Bros. Paint & Glass Co., 919 Liberty av
 Diamond Paint & Oil Co., 273 Spring Garden
DIXON, JOS. CRUCIBLE CO. (Graphite), Farmers' Bank bldg. (See adv. index, end of book)
 Eagle Paint & Varnish Works, 225 Grant av
 Fort Pitt Oil & Paint Co., 3208 Penn av
 Globe Asphalt Co., Bakewell bldg.
 Hommel O. Co., 400 Duquesne Way
 Iron City Oil & Varnish Co., 808 Inwood & Frankstown av
 Lawrence, W. W. & Co., W. Carson
 McClintock & Irvine Co., Neville & P. R. R.
 McDonough, S. E. & Co., Elizabeth
 National Lead & Oil Co. (of Penna.), 202-9th
 Pittsburg Paint Supply Co., 713 Liberty av
 Pittsburg Plate Glass Co., Frick bldg.
 Sitka Paint & Cableine Co., 3300 Smallman
 Specialty Paint Co., 3209 Liberty
 Sterling Varnish Co. (Varnish)
 Suydam, M. B. Co., 61st & Butler

PULASKI—Reno Bros.
READING—Morgan Paint Co., 122 Wood
 Ruth, B. F. & Co., 216 S 8th
 Wilhelm, A. Co., 3d c Bern
ROYERSFORD—Alpha Paint & Mineral Co.
SHAMOKIN—Zimmerman, W. S.
SHARPSBURG—Bender & Aildred
TULLYTOWN—Tuily Paint & Varnish Co.
WEST BRIDGEWATER—Fire Resisting Paint Co.
WILLIAMSPORT—National Paint Works
 United States Paint Co.
WYOMING—Wyoming Painting & Paint Mfg. Co.

RHODE ISLAND.

PROVIDENCE—American Supply Co., 11 Eddy
 Hainbach, Bernard, 19 Calender
 Johnson, Oliver & Co., 32 Exchange
 National Paint Co., 36 Garnet
UNITED STATES GUTTA PERCHA
 Paint Co., 12-20 Dudley. (See adv. below)

TENNESSEE.

CHATTANOOGA—Chattanooga Paint Co.
MEMPHIS—Bartholomew Roofing Co., 164 S 2d
 Edrington-Ochre Mfg. Co., So., Ry. & Raleigh av
 Memphis Dry Color Co., So. Ex. Bldg
 Memphis Paint & Glass Co., 204 Gayoso
 Memphis White Lead Works, B'way av
 True Tagg Paint Co., 442-3 Shelby
NASHVILLE—Nashville Carbon & Oil Co.
 Nashville Chemical Co.

TEXAS.

GALVESTON—Baulard, V. L. & Co., 215 Tremont
HOUSTON—Gum-Carbo Co.
 Houston Paint Co.
 Randolph, N. & Sons
SAN ANTONIO—San Antonio Seed & Paint Co.

UTAH.

OGDEN—Ogden Paint, Oil & Glass Co.

SPECIAL PAINTS FOR SPECIAL USES

CORRESPONDENCE INVITED

WE HAVE OR CAN MAKE JUST WHAT YOU MAY WANT.

THE FOLLOWING ARE A FEW OF OUR PRODUCTS:

CEMENTS (Elastic) "For Chimneys and Roofs, etc."
 CEMENTS (Iron) " 'Rice's' Adamant for Blowholes in Castings, Leaks in Boilers, Piping, etc."
 CEMENTS (Rivet) " 'Rice's', for Hulls or Iron or Steel Vessels."
 CEMENTS (Roofing.)
 ENAMELS " 'Chinaline,' for Interior Finish."
 ENAMELS (Bath Tub).
 ENAMELS (Iron) " 'Rice's' Oxidized Machine Enamel."
 FILLERS (Iron and Steel) " 'Rice's' Corliss Vulcan."
 LACQUERS (Machine) " 'Rice's' or Egg Shell Gloss Enamel."
 MILL WHITE (Rice's)
 PAINT MANUFACTURERS
 PAINTS (Insulating).
 PAINTS (Iron Oxide).
 PAINTS (Rust Proof).
 PAINTS (Trolley Pole).
 PAINTS (Water Proof).

PAINTS for Coating and Preserving Iron and Steel.
 PAINTS (Machinery).
 PAINTS (Marine) " 'Pitt's' Bristol Green Anti-Fouling, etc."
 PAINTS (Roofing).
 PAINTS (Smoke Stack).
 PAINT and Varnish Removers
 VARNISH MANUFACTURERS.

U. S. GUTTA PERCHA PAINT COMPANY

12-30 Dudley Street, PROVIDENCE, R. I.

J. Wm. RICE, President

H. W. RICE, Secretary

VERMONT.

BENNINGTON—Adams, Enos & Co.
Godfrey, S. L. (est.)
Lyons, S. C. & Bros.
BELLOWS FALLS—Casein Co. of America (Indurline)
SAXTON'S RIVER—Edson, Starks & Co. (Mineral)

VIRGINIA

LYNCHBURG—National Paint & Manganese Co. (Ltd)
NORFOLK—Jenkins Paint & Oil Co.
RICHMOND—Armitage Mfg. Co., 3200 Williamsburgh av
Alcatraz Asphalt Paint Co. (Asphalt)

WASHINGTON.

SEATTLE—Lovett, H. R., 200 Boston blk
McGaha, Wm. R., 904 1st av, S
Parafine Paint Co., 408 Occidental av
Western Paint Co., 2500 3d av
SPOKANE—Spokane Paint & Oil Co.
TACOMA—Pacific Glass & Paint Co.

WEST VIRGINIA.

WHEELING—Wilson, W. A. & Sons

WISCONSIN.

GREEN BAY—Henderson, Robt. & Co.
IRON RIDGE—Winters' Metallic Paint Co.
JUNEAU—Downing, I. & Co.
MILWAUKEE—Carbolneum Wood Preserving
Ferrubron Metal Paint Co., 128 Reed
Hecht & Zummach, 283 W. Water
MILWAUKEE CORRUGATING CO.
(See adv. index, end of book)
O'Neill Oil & Paint Co., S Water opp. Independent Fuel Co. Yard ("Duro") 297
Patton Paint Co.
Perkins & Co., 147 6th
Ricketson Mineral Paint Works (Iron Ore), 404 Broadway
Smith Paint & Varnish Co. (Ready Mixed, etc.), 329 Chestnut
MINERAL POINT—Hankins, J. P.
OSHKOSH—Osbkosh Paint Co.
STEVENS POINT—Wisconsin Graphite Co.

Paint Mfrs. ("Elateroid")

Hydro-Carbon Mfg. Co., Denver, Colo.

Paint Mfrs. (Oil)

Carrara Paint Co., Barberton, O.
Viscol Co. (Mfrs. of Condensed Paint & Varnish Oils), 1st st, E Cambridge, Boston, Mass.

Paint Mfrs.' Color Cards

Bradt Mfg. Co., Troy, N. Y.
Lazenby, Jno. Color Card Co. (J. W. Stocker & Son, Props.), 510 W Marianna av, Chicago, Ill.
Morrison, Chas. C. (for Mixed Paint, etc.), Office, 363 S Clinton, Chicago, Ill.
Rubber Paint Co., 154 W Van Buren, Chicago, Ill.
White, W. J. & Co., Detroit, Mich.

Paint & Varnish Remover

Amstein, Eugene, 25th & Shields av, Chicago, Ill.
Ball Chemical Co., Allegheny, Pa.
Bird, J. A. & W. & Co. ("Mistic"), 34 India, Boston, Mass.
Bridgeport Wood Finishing Co., New Milford, Conn.
Brooklyn Varnish Mfg. Co., 35 Nostrand av, Brooklyn, N. Y.
Canton Paint & Varnish Co., Canton, O.
De Ronde, Frank S. Co., 46 Cliff, New York
Detroit White Lead Wks, 532 Milwaukee av, Detroit, Mich.
Ellis-Chalmers Co. ("Phenoid"), Dedham, Mass.
Forest City Paint & Varnish Co., Cleveland, O.
Hatt, Chas. E. Polish & Chemical Co., Detroit, Mich.
Lucas, Jno. & Co., 322 Race, Phila., Pa.
Michigan Paint Co. ("Se-Tab"), Flint, Mich.
Munson, Clair, Clinton, Ia.
Otley Mfg. Co. ("Eureka," for R. R. Coaches, etc.), 855 Winchester av, Chicago, Ill.
Parrott Varnish Co., Bridgeport, Conn.
Sherwin-Williams Co., 104 Canal, Cleveland, O.
Stewart Co. ("Capitol"), 228 W 23d, New York
Stocker, John W. & Son, 510 W Marianna av, Chicago, Ill.

Takitof Co. ("Takitof"), 588 W 34th, New York
Tousey Varnish Co., 140 Dearborn, Chicago, Ill.
UNITED STATES GUTTA PERCHA
Paint Co., 12-30 Dudley, Providence, R. I.
(See adv. on preceding page)
Whigelt Paint Works, 241 Front, New York
Wilson Co. ("Amyline" Emulsion) 18 B'way, New York, Works, Long Island City, N. Y.
Woodhouse, Samuel F., Unity & Franklin, Phila., Pa.

Paint Spraying Machines

(See Machinery)

***Painting Sprays (Compressed Air)**

KOVEN, L. O. & BRO., 50 Cliff, New York. (See adv. index, end of book)
STANDARD PNEUMATIC SPRAY CO., 1 & 3 W Union sq, New York. (See adv. index, end of book)

Paints (Acid Proof)

Barrett Mfg. Co., Merchants' Loan & Trust bldg, Chicago, Ill.
BLANCHITE CO., (Ltd.), 139 Charles, New York. (See adv. index, end of book)
Canton Paint & Varnish Co., Canton, O.
CARPENTER, GEO. B. & CO., 202 S. Water, Chicago, Ill. (See adv. index, end of book)
Depew Carbon Paint Co., 1507 N Lincoln, Chicago, Ill.
Doggett, Stanley (Mfrs. Agt.), 101 Beekman, New York
GROSCHKE, BRUNO & CO., 30 Old Slip, New York. (See adv. index, end of book)
Hanna Paint Mfg. Co., 111 E Long, Columbus, O.
Hydro-Carbon Mfg. Co. ("Elateroid" Coatings), Kay & Ess Co., Dayton, O. Denver, Colo.
Maire Paint Co., 242 1st av, Minneapolis, Minn.
Miller, Clifford L. & Co. ("Miwax"), 125 E 23d, New York
Rieseman Mfg. Co., Ltd., Franklin, Pa.

RINALD BROS., 1142 N Hancock, Phila., Pa. (See adv. index, end of book)
Suydam, M. B. Co., 61st & Butler, Pittsburg, Pa.
ZIBELL DAMP-RESISTING PAINT Co., 273 Water, New York. (See adv. on following page)

Paints (Aluminum & Gold)

Aluminum Paint & Polish Co., 701 W Lake, Chicago, Ill.
Akron Mining, Milling & Mfg. Co., Aurora, Ill.
Arnsteln, Eugene, 35th & Shields, Chicago, Ill.
BINSWANGER, B. & CO., 115 N 4th, Phila., Pa. (See adv. index, end of book)
Cullen, F. C. & Co., 704 W Lake, Chicago, Ill.
Detroit White Lead Works, 532 Milwaukee av, Detroit, Mich.
Engel, Jno. & Co. (Gold), 137 W B'way, N. Y.
FRENCH, SAM'L H. & CO., 4th and Callowhill, Phila., Pa. (See adv. index, end of book)
Gerstendorfer Bros., 231 E 42d, New York
Harlem Roofing & Waterproofing Co., 553 E 116th, New York, N. Y.
Hommel, O. Co., 400 Duquesne Way, Pittsburg, Pa.
Kay & Ess Co., Dayton, O.
Sherwin-Williams Co., 104 Canal, Cleveland, O.
Wilhelm, A. Co., Reading, Pa.

Paints (Asbestos)

Acme White Lead & Color Works, Detroit
Barrett Mfg. Co., Merchants' Loan & Trust bldg, Chicago, Ill.
Carey, Philip Mfg. Co., Lockland, O.; 118 Liberty, New York
Casein Co. of America (Indurline), Bellows Falls, Vt.
Chicago Fire Proof Covering Co., 18 N Canal, Chicago, Ill.
Ehret Magnesia Mfg. Co., Laud Title bldg, Phila., Pa.
Gilmour, R. M. Mfg. Co., 105 John, New York
Oil City Asbestos Co., Oil City, Pa.
Patton Paint Co., Milwaukee, Wis.
Peale, W. C. & Bro., 904 Central av, Cinn., O.
Sall Mountain Asbestos Mfg. Co., 68 S Canal, Chicago, Ill.
Tucker, Wm. G. Mfg. Co., 519 E 116th, N. Y.
WATSON, H. F. CO., Erie, Pa. (See adv. index & branch offices, end of book)

Paints (Asphalt)

Acme White Lead & Color Works, Detroit, Mich.
American Supply Co. (Asphaltum), 960 2d av, Pittsburg, Pa.
American Supply Co., 13 Eddy, Providence, R. I.
Asphaltum & Rubber Co., Woman's Temple, Chicago, Ill.
ATLAS PAINT CO., 2638 Liberty av, Pittsburg, Pa. (See adv. index, end of book)
Barber Asphalt Paving Co. ("Titekote"), Phila., Pa.
Barrett Mfg. Co., Merchants' Loan & Trust bldg, Chicago, Ill.
Densmore-Stabler Refining Co., Los Angeles, Cal.
Forest City Paint & Varnish Co., Cleveland, O.
Fort Pitt Oil & Paint Co., 3208 Penna av, Pittsburg, Pa.
Globe Asphalt Co., Bakewell bldg, Pittsburg, Pa.
Graham Paper Co. ("Martha" Jobbers), St. Louis, Mo.
GROSCHKE, BRUNO & CO., 30 Old Slip, New York. (See adv. index, end of book)
Indian Refining Co., Georgetown, Ky.



A Dead-Flat Linseed Oil Paint for all interior surfaces. No stippling required, and greater durability assured at less cost. Specified by Pullman Palace Car Co. and other critical consumers. Color cards, prices and practical information at your service.

THE MURALO COMPANY

SANITARY INTERIOR WALL FINISHES

NEW BRIGHTON

STATEN ISLAND, N. Y.

Jewett-Blodget Oil Co., Bakersfield, Cal.
 Kay & Ess Co., Dayton, O.
 McClintock & Irvine Co., Pittsburg, Pa.
 National Paint Works, Williamsport, Pa., &
 100 William, New York
 Patent Vulvanite Roofing Co. ("Vulcanite"),
 625 S Campbell av, Chicago, Ill.
 Patton Paint Co., Milwaukee, Wis.
SCHILLINGER BROS. CO., Toledo, O.
 (See adv. index, end of book)
 Southern Refining Co., Los Angeles, Cal.
 Southern Roofing Co. (Roof), Atlanta, Ga.
 Stickney, J. W., 64 Broad, Boston, Mass.
 Stowell Mfg. Co., 454 West Side av, Jersey
 City, N. J.
 Suydam, M. B. Co., 61st & Butler, Pittsburg,
 Trinidad Asphalt Mfg. Co., 320 S 21st, St.
 Louis, Mo.
 Union Oil Co. of California, Mills bldg, San
 Francisco, Cal.
 Walker-Cromwell Co., Kearny, N. J.
 Western Graphite Co., Call bldg, San Fran-
 cisco, Cal.

Paints (Asphaltum)

Ajax Paint Co. ("Woodpecker"), Indianapolis,
 Ind.
 American Asphaltum & Rubber Co., Women's
 Temple, Chicago, Ill.
 Cambria Paint & Color Co. (Ltd.), Johnstown,
 Canton Paint & Varnish Co., Canton, O. Pa.
 Detroit White Lead Wks, 532 Milwaukee av,
 Detroit, Mich.
 Eagle Paint & Varnish Co., Allegheny, Pa.
GROSCHKE, BRUNO & CO., 30 Old Slip,
 New York. (See adv. index, end of book)
 Kay & Ess Co., Dayton, O.
 McClintock & Irvine Co. (Red & Black), Neville
 & P. R. R., Pittsburg, Pa.
 Otley Mfg. Co. ("Eureka"), 855 N Winchester
 av, Chicago, Ill.
 Riesenman Mfg. Co., Franklin, Mass.
 Wilhelm, A. Co., Reading, Pa.

Paints (Barrel)

FRENCH, SAM'L H. & CO., 4th & Cal-
 lowhill, Phila., Pa. (See adv. index, end
 of book)
 Forest City Paint & Varnish Co., Cleveland, O.
 Heller & Merz Co., 22 Cliff, N. Y.
 Kay & Ess Co., Dayton, Ohio
 Lucas, Jno. & Co., 322 Race, Phila., Pa.

Paints (Brick)

Allentown Mfg. Co., Allentown, Pa.
BLANCHITE CO. (Ltd.), 139 Charles,
 New York. (See adv. on following page)
BURNS, C. L., 156 5th av, New York.
 (See adv. below)

B. S. Brick and Cement Coating

Covers with ONE coat.

C. L. BURNS,

156 Fifth Avenue, New York.

Telephone 5068 Gramercy.

FRENCH, SAM'L H. & CO., 4th & Cal-
 lowhill, Phila., Pa. (See adv. index, end
 of book)
 Hanna Paint Mfg. Co., 111 E Long, Columbus,
 Key & Ess Co., Dayton, Ohio
 Lucas, Jno. & Co., 322 Race, Phila., Pa.

Paints (Bridge)

(See Paints for Coating & Preserving Iron &
 Steel.)

Paints (Carbon)

Alexander Bros., 10 N 2d, Phila., Pa.

Paints (Cold Japan)

American Cold Japan Co. (Bridges, Roofs,
 Stacks, etc.), Pittsburg, Pa.

Paints (Cold Water)

Acme White Lead & Color Works, Detroit,
 Arlington Mfg. Co., Canton, O. Mich.
BLANCHITE CO. (Ltd.) ("Blanchite"
 Washable), 139 Charles, New York. (See
 adv. on following page)
 Bird, J. A. & W. & Co. ("Magnite"), 34 India,
 Boston, Mass.
 Cleveland Window Glass Co., 211 Champlain,
 Cleveland, O.
 Columbia Refining Co. ("Aqualite" Fire &
 Weatherproof; also "Muraltint" & "Hygl-
 eni"), 32 B'way, New York
 Connors, Wm. Paint Mfg. Co., 669 River, Troy,
 N. Y.
 De Ronde, Frank S. Co. ("Lythite"), 52 Cliff,
 New York
 Edson, Starks & Co., Saxton's River, Vt.
 Fox, M. Ewing & Co., 462 E 136th, New York
 Hainbach, Bernard, 19 Calendar, Providence,
 R. I.
 Harlem Roofing & Waterproofing Co., 553 E
 116th, New York
 Hook Mfg. Co. ("Stay There" Fire & Weath-
 erproof), Hudson, Mich.
 Johnston, Henry M. Mfg. Co., 60 Wash'n av,
 Brooklyn, N. Y.
 King Paint Mfg. Co. ("King's"), 27 Dunham pl.
 Lucas, Jno. & Co., 322 Race, Philadelphia, Pa.
 Manhattan Color Works ("Tem-Po-va"), 197
 Amsterdam av, New York
MURALO COMPANY, New Brighton,
 Borough of Richmond, New York. (See adv.
 on preceding page)
 Murphy, Chas. J. & Co., 332 N Calvert, Bal-
 timore, Md.
 Paragon Plaster Co., Syracuse, N. Y.
 Semple, Frank G., Bethlehem, Pa.
 Starks, Edson & Co., Saxton's River, Vt.
 Troy Cold water Kalsomine Co. (Klark's XX
 Kold Water), Troy, N. Y.
 United States Gypsum Co. (Alabaster Fire-
 proof) 184 La Salle, Chicago, Ill.
 Whittaker, W. H., 245 Front, New York
 Wilhelm, A. Co., Reading, Pa.
 Winn, Wm. R. ("Winn"), 143 Maiden la, New
 York

Paints (Copper)

CARPENTER, GEO. B. & CO., 202 S
 Water, Chicago, Ill. (See adv. index, end
 of book)
 Cole & Kuhls ("Elastic"), 23d & 3d av, Brook-
 lyn, N. Y.
 Devoe, F. W. & C. T. Raynolds Co., 101 Ful-
 ton, N. Y.
FRENCH, SAM'L H. & CO., 4th & Cal-
 lowhill, Phila., Pa. (See adv. index, end
 of book)
 Howell, C. H. & Co., 212 Race, Phila., Pa.
 Longman & Martinez, 207 Pearl, New York
 Lucas, Jno. & Co., 322 Race, Phila., Pa.
 New Jersey Paint Works (Louderbough, Hy.,
 Prop.), Wayne & Fremont, Jersey City, N. J.
 Pierce, F. O. Co., 170 Fulton, N. Y.
 Sherwin-Williams Co., 104 Canal, Cleveland, O.
 Tarr, Jas. H. (Marine), Gloucester, Mass.
 Tarr & Wonson, Gloucester, Mass.
 Williams, Samuel J., 78 Broad, New York
 Woolsey, C. A. Paint & Color Co., Merseles &
 Colden, Jersey City, N. J.

Paints (Damp Resisting)

Arlington Mfg. Co., Canton, O.
 Banzai Mfg. Co. (White), 24 E 23d, New York
BLANCHITE CO., LTD., 139 Charles,
 New York. (See adv. on following page)
 Canton Paint & Varnish Co., Canton, Ohio
 Feigel, M. & Bro. ("D. R. P."), 147 Wooster
 New York
FRENCH, SAM'L H. & CO., 4th & Cal-
 lowhill, Phila., Pa. (See adv. index, end of
 book)
GROSCHKE, BRUNO & CO., 30 Old
 sl, New York. (See adv. index, end of book)
 Hanna Paint Mfg. Co., 111 E Long, Columbus,
 Kay & Ess Co., Dayton, Ohio
LEHON CO., W 43d & Lincoln, Chi-
 cago, Ill. (See adv. index, end of book)
 Miller, Clifford L. & Co. ("Minwax"), 125 E
 23d, New York
RINALD BROS., 1142 N Hancock,
 Phila., Pa. (See adv. index, end of book)
 Sherwin-Williams Co., 104 Canal, Cleveland, O.
 Toch Bros. ("R. I. W."), 320 5th av, New York
 Universal Compound Co., 88 Maiden la, N. Y.
ZIBELL DAMP-RESISTING PAINT
 Co., 273 Water, New York. (See adv. below)

Paints (Dipping)

BLANCHITE CO. (Ltd.), 139 Charles,
 New York. (See adv. on following page)
 Canton Paint & Varnish Co., Canton, Ohio
 Detroit White Lead Wks., 532 Milwaukee av,
 Detroit, Mich.
FRENCH, SAM'L H. & CO., 4th & Cal-
 lowhill, Phila., Pa. (See adv. index, end of
 book)
GROSCHKE, BRUNO & CO., 30 Old
 Slip, New York. (See adv. index, end of
 book)
 Kay & Ess Co., Dayton, Ohio
 McClintock & Irvine Co. (Paints & Varnishes),
 Neville & P R R, Pittsburg, Pa.
 McLennan Paint Co. (Ltd.), 175-195 Rano, Buf-
 falo, N. Y.
RINALD BROS., 1142 N Hancock,
 Phila., Pa. (See adv. index, end of book)
 Sherwin-Williams Co., 104 Canal, Cleveland, O.
THOMSON WOOD FINISHING CO.,
 115 N 4th, Phila., Pa. (See adv. on follow-
 ing page)

ZIBELL'S ANTI-RUST COATING (any color), tough, tenacious, weatherproof, unaffected by
 frost, rain, salt air, gases and acid fumes; prevents rust and corrosion on structural
 and ornamental iron; also on all metal surfaces. Lasts indefinitely.

BLACK PROTECTORINE, used on inside of weather exposed walls, eliminates furring and
 lathing.

ZIBELL'S WATERPROOF PAINT, impervious, sunproof, frostproof, rainproof and weather-
 proof. Efficiency guaranteed.

OUR SPECIALTY: Difficult dampproofing and waterproofing problems seemingly impos-
 sible of solution. We guarantee results.

Zibell Damp-Resisting Paint Company
273 WATER STREET, NEW YORK

Experts in dampproofing and Waterproofing

The Blanchite Company, Limited

139-143 CHARLES ST. NEW YORK

BLANCHITE PRESERVATIVE PAINTS,
BLANCHITE ENAMELS,
BLANCHITE WATER PAINTS,

For all purposes where reliable paints are required

Particularly adapted to IRON, STEEL, WOOD and CONCRETE

BLANCHITE PAINTS are sun proof, water proof and not affected by acid fumes, alkalies or gases of any nature.

BLANCHITE WHITE OXIDE PAINT is the whitest white paint made and will never turn yellow.

CORRESPONDENCE SOLICITED

Paints (Enamel)

(See Enamels.)

*Paints (English Bath Enamel & Porcelain)

RINALD BROS., 1142 N. HANCOCK, Phila., Pa. (See adv. on following page)

*Paints (English Enamel & Porcelite)

THOMSON WOOD FINISHING CO., 115 N 4th, Phila., Pa. (See adv. below)

Paints (Fire Resisting)

Acme White Lead & Color Works, Detroit, Mich.
Akron Mining, Milling & Mfg. Co., Aurora, Ill.
American Insulating Material Mfg. Co., Alexandria, Ind.
Arlington Mfg. Co., Canton, O.
Atlantic Refining Co., Citizens' bldg., Cleveland, O.
Barrett Mfg. Co., Merchants' Loan & Trust bldg., Chicago, Ill.
Bowen's S. Sons, 4th & Sedgely av., Phila., Pa.

CABOT, SAMUEL 141 Milk, Boston, Mass., & 28 Dearborn av. Chicago, Ill. (See adv. index & Brauch offices, end of book)
Canton Paint & Varnish Co., Canton, O.
Creolite Slate Paint Co., 84 La Salle, Chicago, Ill.
De Ronde, Frank S. Co., 46 Cliff, New York, & 48 N 4th, Phila., Pa.
Detroit Graphite Mfg. Co., 10 12th, Detroit, Mich.
Ebersou, A. A. & Co., 102 E York, Baltimore, Md., & 901 N 2d, St. Louis, Mo.
Fire Resisting Paint Co., West Bridgewater, Pa.
Firefight Sales Co., Diamond Bank bldg., Pittsburgh, Pa.
Forest City Paint & Varnish Co., Cleveland, O.
Fort Pitt Oil & Paint Co., Pittsburgh, Pa.
Fox, M. Ewing & Co. (Permanite), 136th & Rider av., New York
Hanua Paint Mfg. Co., 111 E Long, Columbus, O.
Hydro-Carbon Mfg. Co. ("Elatroid" Coatings), Denver, Colo.
International Steel Post Co., 719 Chestnut, St. Louis, Mo.
Kay & Ess Co., Dayton, O.
Lucas, John & Co., 322 Race, Philadelphia, Pa.
McDonough, S. E. & Co., Hazelwood, Pittsburgh, Pa.
Maire Paint Co., 242 1st av. N Minneapolis, Minn.
Nevin, T. H. Co., Allegheny, Pa.

Nubian Paint & Varnish Co., 51st av & Bloomington, Chicago, Ill.
Patterson, Sargent Co., 1304 E 38th, Cleveland, O.

Patton Paint Co., Milwaukee, Wis.
Republic Railway Appliance Co., St. Louis, Mo.
Retardo Fire Proofing Co. ("Retardo"), 141 S. Clinton, Chicago, Ill.

SALFIRE PAINT CO., 115 N 4th, Phila., Pa.

Stowell Mfg. Co., Jersey City, N. J.
Suydam, M. B. Co., 61st & Butler, Pittsburgh, Pa.

Paints for Coating & Preserving Iron & Steel

Acme White Lead & Color Works, Detroit, Mich.
Alcatraz Asphalt Paint Co. (Asphalt), Richmond, Va.
Allen Anti-Rust Paint Co., 5th & Race, Cincinnati, O.
American Bitumastic Enamel Co. (Bitumastic Enamels & Paints), 311½ Walnut, Phila., Pa.
American Bridge & Structural Preserving Co., 16 State, Boston, Mass.
American Graphite Co. ("Graphault"), Williamson bldg., Cleveland, O.
American-Lucol Co., 1402 B'way, New York

PORCELITE IS THE ONLY ENAMEL PAINT

That has stood the test of over Fourteen years' wear and retained its permanent high gloss, and has not checked or cracked.

Interior Woodwork, Plastered Walls, Brick Work, Metals, painted with

PORCELITE

have an impervious Porcelain surface, which will stand the action of Steam, Soap, Water, Acids or Antiseptic Solutions. Makes a more perfect Enamel or China Gloss finish with less coats and labor than any varnish or Enamel Paint made. Excellent imitation of Tile and Enameled Brick.

Few of the many thousand references: N. Y. C. & H. R. R. R. Co.; Penna. R. R. Co.; White House, Washington; Girard Life & Trust Bldg., Philadelphia; Waldorf-Astoria Hotel, N. Y.; St. Luke's Hospital, N. Y.; Park Row Bldg., N. Y., and all the leading painters and decorators in the United States and Canada.

SOLE MAKERS AND INVENTORS,

THE THOMSON WOOD FINISHING CO.

High Grade Varnish, Enamel and Wood Filler Makers.

Office, 115 North Fourth Street,

PHILADELPHIA, PA.

Arlington Mfg. Co., Canton, O.
 Armitage Mfg. Co., Richmond, Va.
ATLAS PAINT CO. (Ltd.), 2638 Liberty av., Pittsburgh, Pa. (See adv. index, end of book)
 Banzai Mfg. Co. (Smokestack), 24 E 23rd, New York
 Barrett Mfg. Co., Land Title bldg., Phila., Pa.
 Billings-Chapin Co., 37 Case av., Cleveland, O.
 Billings, Kiug & Co., 438 Pearl, N. Y., & 153 Congress, Boston, Mass.
BINSWANGER, B. & CO., 115 N 4th, Phila., Pa. (See adv. index, end of book)
BLANCHITE CO. (Ltd.), 139 Charles, New York. (See adv. on preceding page)
 Blood T. L. & Co., St. Paul, Minn.
 Bowen's, S. Son, 4th & Venango, Phila., Pa.
 Buckeye Paint & Varnish Co., Toledo, O.
 Burgess, Fobes & Co., Portland, Me.
 Cambria Paint & Color Co. (Ltd.), Johnstown, Pa.
 Canton Paint & Varnish Co., Canton, O.
 Carrara Paint Co., Barberton, O.
 Chattanooga Paint Co., Chattanooga, Tenn.
 Chilton Paint Co., 100 William, New York
 Clinton Metallic Paint Co., Clinton, N. Y.
 Colonial Paint Co., Marquette nr St. Clair, Cleveland, O.
 Conuors, Wm. Paint Mfg. Co., Troy, N. Y.
 Depew Carbon Paint Co., 1507 N. Lincoln, Chicago, Ill.
 De Roude, Frank S. Co., 46 Cliff, New York, & 48 N 4th, Phila., Pa.
 Detroit Graphite Mfg. Co., 10 12th, Detroit, Mich.
 Detroit White Lead Works, 532 Milwaukee av., Detroit, Mich.
DIXON, JOS. CRUCIBLE CO. ("Dixon's") Silica Graphite for Metal, also for Wood, Jersey City, N. J. (See adv. index & branch offices, end of book)
 Doggett, Stanley (Mfrs. Agt.), 101 Beekman, New York
 Eagle Paint & Varnish Co., Allegheny, Pa.
 Elko Paint Co. (Anti-Corrosive Mineral Oxide), Randolph, N. Y.
 Feigel, M. & Bro., 147 Wooster, New York
 Felton, Sibley & Co., 140 N 4th, Phila., Pa.
 Ferrubron Metal Paint Co., Milwaukee, Wls.
 Forest City Paint & Varnish Co., Cleveland, O.
 Fort Pitt Oil & Paint Co., 3208 Penn av., Pittsburgh, Pa.
FRENCH, SAMUEL H. & CO., 4th & Callowhill, Phila., Pa. (See adv. index, end of book)
 Frontier Mineral Paint Co., Newberry bldg., Detroit, Mich.
 Garry Iron & Steel Co., Cleveland, O.
 Goheen Mfg. Co. ("Galvanum"), Canton, O.
GROSCHKE, BRUNO & CO., 30 Old Slip, New York. (See adv. index, end of book)
 Hammoud-Boynton Paint & Chemical Co. ("Ferox" Iron Oxide), Norwich, Conn.
 Hanna Paint Mfg. Co., 111 E Long, Columbus, Ohio
 Harlem Roofing & Waterproofing Co., 553 E 116th, New York

Harrison Bros. & Co., 35th & Grays Ferry rd., Phila., Pa.
 Heath & Milligan Mfg. Co., 170 Randolph, Chicago, Ill.
 Hydro-Carbon Mfg. Co. ("Elateroid" Coating, Heat Resisting), Denver, Colo., & 11 B'way, New York
 Iron Clad Paint Co., Cleveland, Ohio
 Ironsides Co., The Wyandotte, Columbus, Ohio
 Jarrait Paint & Enamel Co., 92 Grisswold, Detroit, Mich.
 Jenkins Paint & Oil Co., Norfolk, Va.
 Johnson Compound & Supply Co. ("Sumac"), Rochester, N. Y.
 Kay & Ess Co., Dayton, Ohio
 Keystone Paint & Filler Co., Muncy, Pa.
 Lawrence, W. W. & Co., Pittsburgh, Pa.
 Long, Chas. R., J., Co., Louisville, Ky.
 Lucas, John & Co., 322 Race, Philadelphia, Pa.
 McClintock & Irvine Co., Pittsburgh, Pa.
 McNaughton, Wm. D., 185 Oakland, Brooklyn, N. Y.
 McLennan Paint Co., Ltd., 175-195 Rano, Buffalo, N. Y.
 Maire Paint Co., 242 1st av, N, Minneapolis, Minn.
 Mamolith Carbon Paint Co., Cincinnati, Ohio
 Michigan Paint Co., Flint, Mich.
 Miller, Clifford L. & Co. ("Minwax"), 125 E 23d, New York
 Mohawk Paint & Chemical Co. ("Ferox" Iron Oxide), Norwich, Conn.
 Nashville Carbon & Oil Co., Nashville, Tenn.
 National Cement & Rubber Mfg. Co., Toledo, O.
 National Paint Works, Williamsport, Pa., & 100 William, New York
 Newcastle Paint & Varnish Co., Newcastle, Pa.
 Ohio Paint & Varnish Co., Findlay, O.
 Otley Mfg. Co. ("Eureka" Graphite, etc.), 855 N Winchester av, Chicago, Ill.
 Patterson-Sargent Co. (B. P. S.), "Nobrac," 1304 E 38th, Cleveland, O., Chicago & New Patton Paint Co., Milwaukee, Wis.
 Peuna. Standard Rubber Paint Co., West End, Phila., Pa.
 Popplein, G. & N. Jr., 220 North Baltimore, Prince Mfg. Co., 2 Cliff, New York
 Prince's Metallic Paint Co., Allentown, Pa.
 Protectus Company, North American bldg., Phila., Pa.
 Reeder, Jno. S. (Cold Japan), Union Trust bldg., Cincinnati, O.
 Republic Railway Appliance Co., St. Louis, Mo.
 Ricketson Mineral Paint Works, 404 B'way, Milwaukee, Wis.
 Reisenman Mfg. Co. (Ltd.), (High Heat), Franklin, Pa.
RINALD BROS. (Bessemer Paints), 1142 N Hancock, Phila., Pa. (See adv. below)
 Rossie Iron Ore Paint Co., Ogdensburg, N. Y.
 St. Louis Surfacers Co. ("Koon's" Surfacers), St. Louis, Mo.
 Sherwin-Williams Co., 104 Canal, Cleveland, O.
 Smith, Edw. & Co., 45 B'way, New York
 Standard Paint Co., 100 William, New York, & 188 Madison, Chicago, Ill.
 Stickuey, J. W., 64 Broad, Boston, Mass.

Stowell Mfg. Co., Jersey City, N. J.
 Suydam, M. B. Co., 61st & Butler, Pittsburg, Pa.
 Swift Paint Co. "Black Giant," "Front End Enamel," Wade bldg., Cleveland, Ohio
 Tiffin Hydro-Carbon Paint & Varnish Co. ("Hydro-Carbon" Black), Tiffin, Ohio
 Toch Bros. (R. I. W.), 320 5th av, New York
UNITED STATES GUTTA PERCHA Paint Co., 12-30 Dudley, Providence, R. I. (See adv. index, end of book)
 United States Paint Co., Williamsport, Pa.
 Vacuum Varnish & Chemical Co., E Norwalk, Conn.
 Wadsworth-Howland Co. (Inc.), 84 Washington, Chicago, Ill.
 Wadsworth-Howland & Co. (Inc.), Boston, Mass.
 Walker-Cromwell Co., Kearney, N. J.
 Wilhelm, A. Co., Reading, Pa.

Paints (Gold)

(See Paints, Aluminum & Gold)

Paints (Graphite)

Acme White Lead & Color Works, Detroit, Mich.
 Akron Mining, Milling & Mfg. Co., Aurora, Ill.
 American Graphite Co. ("Graphault"), Williams-son bldg., Cleveland, Ohio
 Arlington Mfg. Co., Canton, O.
BINSWANGER, B. & CO., 115 N 4th, Phila., Pa.
 Blood, T. L. & Co., St. Paul, Minn.
 Buckeye Paint & Varnish Co., Toledo, O.
 Cambria Paint & Color Co. (Ltd.), Johnstown, Pa.
 Canton Paint & Varnish Co., Canton, O.
 Chicago Graphite Mfg. Co., 79 Dearborn, Chicago, Ill.
 Detroit Graphite Mfg. Co., 10 12th, Detroit, Mich.
 Detroit White Lead Wks., 532 Milwaukee av., Detroit, Mich.
DIXON, JOS. CRUCIBLE CO., Jersey City, N. J. (See adv. index & branch offices, end of book)
 Elko Paint Co. ("Elko XX" Enamel), Randolph, N. Y.
 Forest City Paint & Varnish Co., Cleveland, O.
 Fort Pitt Oil & Paint Co., Pittsburgh, Pa.
FRENCH, SAMUEL H. & CO., 4th & Callowhill, Phila., Pa. (See adv. index, end of book)
 Goheen Mfg. Co., Canton, Ohio
 Holmes Fibre Graphite Mfg. Co., 5155 Wakefield, Gtn., Phila., Pa.
 Iron Clad Paint Co., Cleveland, O.
 Kay & Ess Co., Dayton, O.
 Lawrence, W. W. & Co., Pittsburgh, Pa.
 Lucas, John & Co., 322 Race, Philadelphia, Pa.
 Metropolitan Paint Co., 370 11th av, New York
 Michigan Paint Co., Flint, Mich.
MILWAUKEE CORRUGATING CO., (Jobbers), Milwaukee, Wis. (See adv. index, end of book)
 National Paint Works, Williamsport, Pa., & 100 William, New York

"PORCELAIN ENAMEL PAINT" Reg'd Trade Mark

is the only paint made by anybody that looks, lasts, wears and acts like porcelain.

"PORCELINE" (Registered Trade Mark)

Is better than its imitations. Send for our book "All About Porcelain Enamel Paint" which explains difference.

BATH TUB ENAMEL

In small cans for Store Trade.

BESSEMER PAINT (absolutely rustproof)

CONCENTRATED GALVANIC PRIMER

ARBROS PRESERVATIVE ENAMEL

For use over Calcimine or Cold Water Paints in Factories.

GRAPHITE PAINTS

SPECIAL PAINTS

RINALD BROS.,

1142-1146 N. Hancock St.

PHILADELPHIA.

North American Graphite Paint Co. ("Imperial"), Detroit, Mich.
 Otley Mfg. Co. (Mixed in Oil), 855 N Winchester av, Chicago, Ill.
 Reisenman Mfg. Co. (Ltd.), Franklin, Pa.
RINALD BROS., 1142 N Hancock, Phila., Pa. (See adv. on preceding page)
 Sherwin-Williams Co., 104 Canal, Cleveland, O.
 Standard Graphite Co., 11 B'way, New York
 Suydam, M. B. Co., 61st & Butler, Pittsburgh, Pa.
 United States Graphite Co., Saginaw, Mich.
 United States Paint Co., Box 343, Williamsport, Pa.
 Wadsworth-Howland Co. (Inc.), 84 Washington, Chicago, Ill.
 Western Graphite Co., Call bldg, San Francisco, Cal.
 Wilhelm, A. Co., Reading, Pa.
 Wisconsin Graphite Co., Stevens Point, Wis.

Paints (Heat Resisting)

Elaterite Paint & Mfg. Co., Des Moines, Ia., & 289 4th av, New York

Paints (Insulating)

(See also Insulating Varnish)

Acme White Lead & Color Works, Detroit, Mich.
 American Insulating Material Mfg. Co. (Sawyers' Polar Brand), Alexandria, Ind.
 Barrett Mfg. Co., Merchants' Loan & Trust bldg, Chicago, Ill.

BLANCHITE CO. (Ltd.), 139 Charles, New York. (See adv. index, end of book)
 Bradford Belting Co., 38 Pey. N. Y., & 2d & Walnut, Cincinnati, O.
 Canton Paint & Varnish Co., Canton, O.
 Connor, Jas. G. & Co. ("Battery Black"), Phila., Pa.
 Day-Galpin Mfg. Co., 55 W 57th, New York
 Depew Carbon Paint Co., 1507 N Lincoln, Chicago, Ill.
 DeRonde, Frank S. Co., 46 Cliff, New York, & 48 N 4th, Phila., Pa.
 Fort Pitt Oil & Paint Co., Pittsburgh, Pa.
 Hanna Paint Mfg. Co., 111 E Long, Columbus, Ohio

LEHON COMPANY, W 43d & Lincoln, Chicago, Ill. (See adv. index, end of book)
 Kay & Ess Co., Dayton, Ohio
 Massachusetts Chemical Co., Walpole, Mass.
 Paragon Insulating Co., Erie R. R. Forest, Cleveland, O.

Patent Vulcanite Roofing Co. ("Elite" & Mineral Compound), 625 S Campbell av, Chicago, Ill.
 Protectus Co., Phila., Pa.
 Sherwin-Williams Co., 104 Canal, Cleveland, O.
 Standard Paint Co., 100 William, N. Y., & 188 Madison, Chicago, Ill.
 Sterling Varnish Co. (Varnish), Pittsburgh, Pa.
 Suydam, M. B. Co., 61st & Butler, Pittsburgh, Pa.
 Toch Bros., 320 5th av, New York
UNITED STATES GUTTA PERCHA Paint Co., 12-30 Dudley, Providence, R. I. (See adv. index, end of book)

*Paints (Interior)

BINSWANGER, B. & CO. ("Santaloid"), 115 N. 4th, Phila., Pa.
BLANCHITE CO. (Ltd.), 139 Charles, New York. (See adv. index, end of book)

Paints (Iron Oxide)

Acme White Lead & Color Works, Detroit, Mich.
 Allentown Mfg. Co., Allentown, Pa.
 Arlington Mfg. Co., Canton, O.
ATLAS PAINT CO. (Ltd.), 2638 Liberty av, Phila., Pa. (See adv. on following page)
BINSWANGER, B. & CO. ("Santaloid"), 115 N 4th, Phila., Pa. (See adv. index, end of book)
BLANCHITE CO. (Ltd.), 139 Charles, New York. (See adv. index, end of book)
 Canton Paint & Varnish Co., Canton, O.
 Fort Pitt Oil & Paint Co., 3208 Penna. av, Pittsburgh, Pa.
 Forest City Paint & Varnish Co., Cleveland, O.
FRENCH, SAM'L H. & CO., 4th & Callowhill, Phila., Pa. (See adv. index, end of book)
 Goheen Mfg. Co., Canton, O.
 Hammond-Boynton Paint & Chemical Co. ("Ferox"), Norwich, Conn.
 Hanna Paint Mfg. Co., 111 E Long, Columbus, Ohio
 Hsley, Doubleday & Co., 229 Front & 2264 3d av, New York
 Jamestown Paint & Varnish Co., Jamestown, Pa.
 Kay & Ess Co., Dayton, O.
 Lucas, John & Co., 322 Race, Phila., Pa.

McClintock & Irvine Co., Neville & P. R. R., Pittsburgh, Pa.
 McLennan Paint Co., 175 Rano, Buffalo, N. Y.
MILWAUKEE CORRUGATING CO. Milwaukee, Wis. (See adv. index, end of book)

National Paint Works, Williamsport, Pa., & 100 William, New York
 Patton Paint Co., Milwaukee, Wis.
 Pittsburgh Iron Paint Co., Allegheny, Pa.
 Reisenman Mfg. Co. (Ltd.), Franklin, Pa.
 Rossie Iron Ore Paint Co., Ogdensburg, N. Y.
 Sherwin-Williams Co., 104 Canal, Cleveland, O.
 Suydam, M. B. Co., 61st & Butler, Pittsburgh, Pa.
UNITED STATES GUTTA PERCHA Paint Co., 12-30 Dudley, Providence, R. I. (See adv. index, end of book)
 United States Paint Co., Williamsport, Pa.
 Wilhelm, A. Co., Reading, Pa.

Paints (Japanese Gold)

Gerstendorfer Bros., 231 E 42d, New York

*Paints (Locomotive)

BLANCHITE CO. (Ltd.), 139 Charles, New York. (See adv. index, end of book)
GROSCHKE, BRUNO & CO., 30 Old Slip, New York. (See adv. index, end of book)

*Paints (Machinery)

(See also Paints for Coating & Preserving Iron & Steel)

ATLAS PAINT CO. (Ltd.), 2638 Liberty av, Phila., Pa. (See adv. on following page)
BINSWANGER, B. & CO., 115 N 4th, Phila., Pa.
BLANCHITE CO. (Ltd.), 139 Charles, New York. (See adv. index, end of book)
FRENCH, SAM'L H. & CO., 4th & Callowhill, Phila., Pa. (See adv. index, end of book)
RINALD BROS., 1142 N Hancock, Phila., Pa. (See adv. on preceding page)
UNITED STATES GUTTA PERCHA Paint Co., 12-30 Dudley, Providence, R. I. (See adv. index, end of book)

Paints (Marble Enamel)

Menzel, Wm. & Son, 68 Broad, N. Y.

Paints (Marine)

(See also Paints, Copper.)

Allentown Mfg. Co., Allentown, Pa.
 Arlington Mfg. Co., Canton, O.
 Banzai Mfg. Co., 24 E. 23d, New York
BLANCHITE CO. (Ltd.), 139 Charles, New York. (See adv. index, end of book)
BERRY BROS. (Ltd.), Detroit, Mich. (See adv. index, end of book)
 Canton Paint & Varnish Co., Canton, O.
CARPENTER, GEO. B. & CO., 202 S Water, Chicago, Ill. (See adv. index, end of book)
 Chilton Paint Co., 100 William, New York
 Cole & Kuhls ("Elastic" Deck Varnish, Copper, Anti-Fouling, etc.), 23d & 3d av, Brooklyn, N. Y.

Crockett, D. B. Co., Bridgeport, Conn.
 Devoe, F. W. & C. T. Reynolds Co., 107 Fulton, N. Y.
 Dick's Anti-Fouling Composition Co. (Ltd.), 81 New, N. Y.
 Eureka Chemical Co., Newark, N. J.
FRENCH, SAM'L H. & CO., 4th & Callowhill, Phila., Pa. (See adv. index, end of book)
GROSCHKE, BRUNO & CO., 30 Old Slip, New York. (See adv. index, end of book)
 Hammond-Boynton Paint & Chemical Co. ("Ferox" "Iron Oxide"), Norwich, Conn.
 Gardiner, Geo. N. & Son ("Am. McInnes"), 15 William, New York
 Holzapfel's Am. Compositions Co., 18 B'way, N. Y.
 Hydro-Carbon Mfg. Co. ("Elateroid Coatings"), Denver, Colo.

Kay & Ess Co., Dayton, Ohio
 Lucas, John & Co., 322 Race, Phila., Pa.
 Mamolith Carbon Paint Co., Cincinnati, O.
 Nansen's Composition & Paint Co., 205 Front, N. Y.
 New Jersey Paint Works (Louderbough, Hy., Prop.), (Motor Boat)
 Protectus Co., Phila., Pa.
 Rahtjen's Am. Composition Co., 26 Beaver, N. Y.
RINALD BROS., 1142 N Hancock, Phila., Pa. (See adv. on preceding page)

STANDARD VARNISH WORKS, 29 B'way, New York. (See adv. index, end of book)

Sherwin-Williams Co., 104 Canal, Cleveland, O.
 Tarr, Jas. H. (Copper & Iron), Gloucester, Mass.
 Tarr & Wanson, Gloucester, Mass.
 Tiffin Hydro-Carbon Paint & Varnish Co. ("Hydro-Carbon" Black), Tiffin, O.
 Toch Bros. ("R. I. W."), 320 5th av, New York
THOMSON WOOD FINISHING CO., 115 N 4th, Phila., Pa. (See adv. index, end of book)

UNITED STATES GUTTA PERCHA Paint Co. ("Pitts" Bristol Green Anti-Folding, etc.), 12-30 Dudley, Providence, R. I. (See adv. index, end of book)
 Williams, Samuel J. (Anti-Corrosive Compound), 78 Broad, New York
 Winn, Wm. R. (Spar, etc.), 143 Maiden la, New York
 Woolsey, C. A. Paint & Color Co., 500 Grand, Jersey City, N. J.

Paints (Mixed for Export)

ATLAS PAINT CO. (Ltd.), 2638 Liberty av, Phila., Pa. (See adv. on following page)

Carrara Paint Co., Barberton, O.
 Detroit Refining Co., "Majestic bldg, Detroit, Mich.

Eagle Paint & Varnish Co., Allegheny, Pa.
FRENCH, SAM'L H. & CO., 4th & Callowhill, Phila., Pa. (See adv. index, end of book)

Kling Paint Mfg. Co., 27 Dunham pl, Brooklyn, N. Y.

RINALD BROS., 1142 N Hancock, Phila., Pa. (See adv. on preceding page)
 Sherwin-Williams Co., 104 Canal, Cleveland, O.

Paints (Oil)

FRENCH, SAM'L H. & CO., 4th & Callowhill, Phila., Pa. (See adv. index, end of book)

Raritan Paint Co., New Brighton, Borough of Richmond, New York, & 10 Wall, New York
MURALO COMPANY, New Brighton, Borough of Richmond, New York. (See adv. index, end of book)

*Paints (Porcelain Enamel)

BINSWANGER, B. & CO., 115 N 4th, Phila., Pa.

BLANCHITE CO., LTD., 139 Charles, New York. (See adv. index, end of book)

FRENCH, SAM'L H. & CO., 4th & Callowhill, Phila., Pa. (See adv. index, end of book)

RINALD BROS., 1142 N Hancock, Phila., Pa. (See adv. on preceding page)

THOMSON WOOD FINISHING CO., 115 N 4th, Phila., Pa. (See adv. index, end of book)

Paints (Roofing)

Acme White Lead & Color Works, Detroit, Mich.
 Akron Mining, Milling & Mfg. Co., Aurora, Ill.
 Allen Anti-Rust Mfg. Co., 5th & Race, Cincinnati, O.

American Asphaltum & Rubber Co., Women's Temple, Chicago, Ill.

American Elastic Roof Paint Co., New London, Conn.

American Graphite Co. ("Graphault"), Williamson bldg, Cleveland, O.

American Supply Co., 960 2d av, Pittsburgh, Pa.

American Supply Co., 13 Eddy, Providence, R. I.

Arlington Mfg. Co., Canton, O.

Armitage Mfg. Co., 3200 Williamsburg av, Richmond, Va.

Asphalt Roofing Co. ("Wanigas"), Saginaw, Mich.

ATLAS PAINT CO. (Ltd.), 2638 Liberty av, Phila., Pa. (See adv. on following page)

Banzai Mfg. Co., 24 East 23d, New York

Barrett Mfg. Co., Land Title bldg, Phila., Pa.

Barrett-Lindeman Co., 1400 Fkd. av, Phila., Pa.

Billings-Chapin Co., 37 Case av, Cleveland, O.

Billings, Kling & Co., 438 Pearl, N. Y., & 153 Congress, Boston

BINSWANGER, B. & CO., 115 N 4th, Phila., Pa.

Bowen's, S. Son, 4th & Venango, Phila., Pa.

Bradford, James Co., 6 E 3d, Wilmington, Del.

Buckeye Paint & Varnish Co., Toledo, O.

Cambria Paint & Color Co. (Ltd.), Johnstown, Pa.

Canton Paint & Varnish Co., Canton, O.

Capitol Asphalt Mastic Co., 310 Dublin av, Columbus, O.

Carrara Paint Co., Barberton, O.
 Chattanooga Paint Co., Chattanooga, Tenn
 Chilton Paint Co., 100 William, New York
 Cleveland Iron Ore Paint Co., Coe & Lake, Cleveland, O.
 Cornors, Wm. Paint Mfg. Co., Troy, N. Y.
 Continental Paint & Mfg. Co. ("Rockalite"), Cleveland, O.
 Crescent Compound Mfg. Co. ("Crescent" Black Elastic), Ellwood City, Pa.
 Devoe, F. W. & C. T. Reynolds Co., 103 Fulton, N. Y., & Chicago, Ill.
EURET MAGNESIA MFG. CO., Land
 Title bldg., Phila., Pa. (See adv. index, end of book)
 Elko Paint Co. (Enamel Oxide), Randolph, N. Y.
 Felton, Sibley & Co., 140 N 4th, Phila., Pa.
 Forest City Paint & Varnish Co., Cleveland, O.
 Fort Pitt Oil & Paint Co., Pittsburgh, Pa.
 Fox Elastic Paint Co., Camden, N. J.
FRENCH, SAM'L H. & CO., 4th & Callowhill, Phila., Pa. (See adv. index, end of book)
 Goheen Mfg. Co., Canton, O.
GROSCHKE, BRUNO & CO., 30 Old Slip, New York. (See adv. index, end of book)
 Hanna Paint Mfg. Co., Columbus, O.
 Hammond-Boydton Paint & Chemical Co. ("Ferox" Iron Oxide), Norwich, Conn.
 Hascall-Wise Paint Co., 46 Barrett, Cleveland, Ohio
 Hawthorn, A. F. Roof Paint Co., Lancaster, Pa.
 Heath & Milligan Mfg. Co., 170 Randolph, Chicago, Ill.
 Howell, Chas. H. & Co., 212 Race, Phila., Pa.
 Hydro-Carbon Mfg. Co. ("Elatroid" Coatings), Denver, Colo.
 Hsley, Doubleday & Co., 229 Front & 2264 3d av, New York
 Iron Clad Paint Co., Cleveland, O.
 Ironsides Co., The Wyandotte, Columbus, O.
 Kay & Ess Co., Dayton, Ohio
 Keystone Paint & Filler Co., Muncy, Pa.
 Lawrence, W. W. & Co., Pittsburgh, Pa.
LEHON CO., W 43d & Lincoln, Chicago, Ill. (See adv. index, end of book)
 Longman & Martinez, 207 Pearl, N. Y.
 Lucas, John & Co., 322 Race, Philadelphia, Pa.
 McClintock & Irvine Co., Neville & P. R. R., Pittsburgh, Pa.
 Maire Paint Co., 242 1st av, N, Minneapolis, Minn.
 Mamolith Carbon Paint Co., Cincinnati, O.
 Martiu Co., 192 Water, N. Y.
 Mephaw, G. S. & Co., East St. Louis, Ill.
MILWAUKEE CORRUGATING CO., Milwaukee, Wis. (See adv. index, end of book)
 Nashville Carbou & Oil Co. ("Durbron"), Nashville, Tenn.
 National Paint Works, Williamsport, Pa., & 100 William, New York
 N. Y. Roof Paint Co., 100 William, N. Y.
 Patterson, Sargent & Co., Cleveland, O., & 2026 Lumber, Chicago, Ill.
 Patton Paint Co. (Asbestos), Milwaukee, Wis.
 Pittsburgh Iron Paint Co., Allegheny, Pa.
 Prince Mfg. Co., 2 Cliff, New York
 Ricketson Mineral Paint Works (Iron Ore), 404 B'way, Milwaukee, Wis.
RINALD BROS., 1142 N Hancock, Phila., Pa. (See adv. index, end of book)
 Rossie Iron Ore Paint Co., Ogdensburg, N. Y.
 Semple, Frank G., Bethlehem, Pa.
 Sherwin-Williams Co., 104 Canal, Cleveland, O.
 Standard Paint Co., 100 William, New York
 Stewart, W. H. Mfg. Co., 81 Fulton, New York
 Stowell Mfg. Co., Jersey City, N. J.
 Suydam, M. B. Co., 61st & Butler, Pittsburgh, Pa.
 Tiffin Hydro-Carbon Paint & Varnish Co., Tiffin, O.
 U. S. Graphite Co., Saginaw, Mich.
UNITED STATES GUTTA PERCHA Paint Co., 12-30 Dudley, Providence, R. I. (See adv. index, end of book)
 U. S. Paint Co., Williamsport, Pa.
 Wadsworth-Howland Co. (Incorp.), Indiana av & 13th, Chicago
 Wadsworth, Howland & Co. (Inc.), Boston, Mass.

WATSON, H. F. CO. (Asbestos), Erie, Pa. (See adv. index & branch offices, end of book)

Wilhelm, A. Co., Reading, Pa.
 Woolsey, C. A. Paint & Color Co., Merseles & Colden, Jersey City, N. J.

Paints (Rust Proof)

Acme White Lead & Color Works, Detroit, Mich.
 Akron Mining, Milling & Mfg. Co., Aurora, Ill.
 Allee Anti-Rust Mfg. Co., 5th & Race, Cincinnati, O.
 Arlington Mfg. Co., Canton, O.
ATLAS PAINT CO. (Ltd.), 2638 Liberty av, Pittsburgh, Pa. (See adv. below)
 Banzai Mfg. Co. (White), 24 E 23d, New York
 Barrett Mfg. Co., Merchants' Loan & Trust bldg., Chicago, Ill.
BLANCHITE CO. (Ltd.), 139 Charles, New York. (See adv. index, end of book)
 Canton Paint & Varnish Co., Canton, O.
 Depeu Carbon Paint Co., 1507 N Lincoln, Chicago, Ill.
 Detroit Graphite Mfg. Co., 10 12th, Detroit, Mich.
 Dielectric Mfg. Co. ("W. D. Paint"), 138 Liberty, New York
 Forest City Paint & Varnish Co., Cleveland, O.
 Fort Pitt Oil & Paint Co., Pittsburgh, Pa.
FRENCH, SAMUEL H. & CO., 4th & Callowhill, Phila., Pa. (See adv. index, end of book)
GROSCHKE, BRUNO & CO., 30 Old Slip, New York. (See adv. index, end of book)
 Hanna Paint Mfg. Co., 111 E. Long, Columbus, Ohio
 Hydro-Carbon Mfg. Co. ("Elatroid" Coatings), Denver, Colo.
 Kay & Ess Co., Dayton, Ohio
 Lucas, John & Co., 322 Race, Philadelphia, Pa.
 McLennan Paint Co., 175-195 Rano, Buffalo, N. Y.
 Maire Paint Co., 242 1st av, N, Minneapolis, Minn.
 Miller, Clifford L. & Co., 125 E 23d, New York
RINALD BROS., 1142 N Hancock, Phila., Pa. (See adv. index, end of book)
 Suydam, M. B. Co., 61st & Butler, Pittsburgh, Pa.
 Toch Bros. ("R. I. W."), 320 5th av, New York
UNITED STATES GUTTA PERCHA Paint Co., 12-30 Dudley, Providence, R. I. (See adv. index, end of book)
ZIBELL DAMP RESISTING PAINT Co., 273 Water, New York. (See adv. index, end of book)

Paints (Shingle)

(See Shingle Stains)

*Paints (Silica Graphite)

DIXON, JOS. CRUCIBLE CO., Jersey City, N. J. (See adv. index & branch offices, end of book)

*Paints (Smokestack)

(See also Paints for Coating & Preserving Iron & Steel)

ATLAS PAINT CO. (Ltd.), 2638 Liberty av, Pittsburgh, Pa. (See adv. below)
BISWANGER, B. & CO., 115 N 4th, Phila., Pa.
BLANCHITE CO. (Ltd.), 139 Charles, New York. (See adv. index, end of book)
DIXON CRUCIBLE CO., Jersey City, N. J. (See adv. index, end of book)
FRENCH, SAMUEL H. & CO., 4th & Callowhill, Phila., Pa. (See adv. index, end of book)
GROSCHKE, BRUNO & CO., 30 Old Slip, New York. (See adv. index, end of book)
RINALD BROS., 1142 N Hancock, Phila., Pa. (See adv. index, end of book)
 Smith, Edw. & Co., 45 B'way, New York

UNITED STATES GUTTA PERCHA Paint Co., 12-30 Dudley, Providence, R. I. (See adv. index, end of book)

Paints (Steam-Proof)

Acme White Lead & Color Works, Detroit, Mich.
 Arlington Mfg. Co., Canton, Ohio
 Barrett Mfg. Co., Merchants' Loan & Trust bldg., Chicago, Ill.
BLANCHITE CO. (Ltd.), 139 Charles, New York. (See adv. index, end of book)
 Buckeye Paint & Varnish Co., Toledo, O.
 Forest City Paint & Varnish Co., Cleveland, O.
FRENCH, SAM'L H. & CO., 4th & Callowhill, Phila., Pa. (See adv. index, end of book)
GROSCHKE, BRUNO & CO., 30 Old Slip, New York. (See adv. index, end of book)
 Kay & Ess Co., Dayton, O.
 Lucas, John & Co., 322 Race, Philadelphia, Pa.
RINALD BROS., 1142 N Hancock, Phila., Pa. (See adv. index, end of book)
 Sberwin-Williams Co., 104 Canal, Cleveland, O.

*Paints (Steel Car Coating)

BLANCHITE CO. (Ltd.), 139 Charles, New York. (See adv. index, end of book)
FRENCH, SAM'L H. & CO., 4th & Callowhill, Phila., Pa. (See adv. index, end of book)
GROSCHKE, BRUNO & CO., 30 Old Slip, New York. (See adv. index, end of book)
RINALD BROS., 1142 N Hancock, Phila., Pa. (See adv. index, end of book)

*Paints (Trolley Pole)

(See also Paints for Coating & Preserving Iron & Steel)

ATLAS PAINT CO. (Ltd.), 2638 Liberty av, Pittsburgh, Pa. (See adv. below)
BISWANGER, B. & CO., 115 N 4th, Phila., Pa.
BLANCHITE CO. (Ltd.), 139 Charles, New York. (See adv. index, end of book)
FRENCH, SAM'L H. & CO., 4th & Callowhill, Phila., Pa. (See adv. index, end of book)
GROSCHKE, BRUNO & CO., 30 Old Slip, New York. (See adv. index, end of book)
RINALD BROS., 1142 N Hancock, Phila., Pa. (See adv. index, end of book)
UNITED STATES GUTTA PERCHA Paint Co., 12-30 Dudley, Providence, R. I. (See adv. index, end of book)
 Wilhelm, A. Co., Reading, Pa.

Paints (Waterproof)

Acme White Lead & Color Works, Detroit, Mich.
 Ajax Paint Co. ("Woodpecker"), Indianapolis, Ind.
 Akron Mining, Milling & Mfg. Co., Aurora, Ill.
 Arlington Mfg. Co., Canton, O.
 Barrett Mfg. Co., Merchants' Loan & Trust bldg., Chicago, Ill.
BISWANGER, B. & CO., 115 N 4th, Phila., Pa.
 Bird, F. W. & Son ("Parine"), East Walpole, Mass.
 Canton Paint & Varnish Co., Canton, O.
BLANCHITE CO., Ltd., 139 Charles, New York. (See adv. index, end of book)
 Creolite Slate Paint Co., 84 La Salle, Chicago, Ill.
 Forest City Paint & Varnish Co., Cleveland, O.
 Fort Pitt Oil & Paint Co., Pittsburgh, Pa.
FRENCH, SAM'L H. & CO., 4th & Callowhill, Phila., Pa. (See adv. index, end of book)
GROSCHKE, BRUNO & CO., 30 Old Slip, New York. (See adv. index, end of book)
 Hydro-Carbon Mfg. Co. ("Elatroid" Coatings), Denver, Colo.

LEADING MANUFACTURERS OF

Mill, Factory, Barn, Roof, Bridge, Stack, House, Floor and Timber Paints.
 Best Roofers' and Slaters' Cement, Mortar Colors. Shingle Stains, Paper
 Roof Coatings. Black Varnish.

Get Our Prices. We Ship Anywhere.

ATLAS PAINT CO., Ltd., 2638 Liberty Avenue, PITTSBURG, PA.



LEHON CO., W. 43d & Lincoln, Chi-
cago, Ill. (See adv. index, end of book)
Maire Paint Co., 242 1st av, N, Minneapolis,
Minn.
Miller, Clifford L. & Co. "Minwax", 125 E
23d, New York
New Jersey Paint Works (Londerbough, Hy.,
Prop.), Jersey City, N. J.
Penna. Standard Rubber Paint Co., West End
Trust bldg, Phila., Pa.
RINALD BROS., 1142 N Hancock,
Phila., Pa. (See adv. index, end of book)
Sherwin-Williams Co., 104 Canal, Cleveland, O.
Standard Tin & Waterproof Paint Co., 381
B'way, Albany, N. Y.
Streett, J. D. & Co., 809 N 2d, St. Louis, Mo.
Suydam, M. B. Co., 61st & Butler, Pittsburg,
Pa.
UNITED STATES GUTTA PERCHA
Paint Co., 12-30 Dudley, Providence, R. I.
(See adv. index, end of book)
Vogt, Paul & Sons, 110 Tremont, Boston, Mass.
Waterproof Paint Co., Watertown, Mass.
ZIBELL DAMP RESISTING PAINT
Co. (In All Colors), 273 Water, New York.
(See adv. index, end of book)

Pallets (Brick)

Atlas Car & Mfg. Co. (Pressed Steel), Cleveland,
O.
Avery Stamping Co., Cleveland, O.
Central Expanded Metal Co. (Steel), 541 Wood,
Pittsburg, Pa.
Mershon, Schuette, Parker & Co. (Wood), Sagi-
naw, Mich.
Ohio Ceramic Engineering Co. (Pressed Steel),
Cleveland, O.
Ohio Galvanizing & Mfg. Co. (Steel), Niles, O.

Pans (Acid)

Corraell, J. B. & J. M. Co., 26th & 11th av,
New York
KOVEN, L. O. & BRO., 50 Cliff, New
York. (See adv. index, end of book)

Pans (Amalgamating)

ALLIS-CHALMERS CO., Milwaukee,
Wis. (See adv. index, end of book)
Power & Mining Machinery Co., 52 William,
New York, & Cudahy, Wis.

Pans (Annealing)

Ohio Mfg. Co., Painesville, O.
KOVEN, L. O. & BRO., 50 Cliff, New
York. (See adv. index, end of book)

Pans (Chemical)

Cornell, J. B. & J. M. Co., 26th & 11th av,
New York

Pans (Chip)

New Britain Machine Co., New Britain, Conn.

Pans (Clean-Up)

Power & Mining Machinery Co. (for Gold, Sil-
ver, etc.), 52 William, New York. Works:
Cudahy, Wis.

Pans (Drip)

Akron Mfg. Co., Akron, O.
Bronson-Walton Co. ("Never Burn" Family),
Collinwood, Cleveland, O.
Budke Mfg. Co. ("Acme"), 421 Wood, Pitts-
burg, Pa.
Chattanooga Roofing & Foundry Co., Chatta-
nooga, Tenn.
Dover Stamping & Mfg. Co., Cambridge, Mass.
Durlach, I. (for Engineers), 54 Vesey, New York
EDWARDS MFG. CO., Eggleston av,
bet. 4th & 5th, Cincinnati, O. (See adv.
index & branch offices, end of book)
Fillgrove Bros. & Co., Ironton, O.
Geuber & Paeschke Mfg. Co., Milwaukee, Wis.
Hibbs, E. A. (Est. of), 213 Quarry, Phila., Pa.
KOVEN, L. O. & BRO., 50 Cliff, New
York. (See adv. index, end of book)
LYON METALLIC MFG. CO., Aurora,
Ill. (See adv. index, end of book)
Wheeling Corrugating Co., Wheeling, W. Va.
WILSON, F. CORTEZ & CO., 239
Lake, Chicago, Ill. (See adv. index, end of book)

Pans (Dry)

ALLIS-CHALMERS CO., Milwaukee,
Wis. (See adv. index & branch offices, end
of book)
AMERICAN CLAY MACHINERY CO.
(& Wet), Bucyrus, O., & Willoughby, O.
Anderson Fdry. & Mach. Works, Anderson, Ind.
BETHLEHEM FOUNDRY & MACHINE
Co., Front, South Bethlehem, Pa. (See adv.
index, end of book)
BONNOT COMPANY, Canton, O. (See
adv. index, end of book)
Chambers Bros. Co. (Clay, etc.), 52d below
Lancaster av, Phila., Pa.
Clearfield Machine Shops (Ltd.), (Also Wet),
Clearfield, Pa.
Eagle Iron Works, Des Moines, Ia.
Frost Mfg. Co. ("Frost," also Wet Pans), Gales-
burg, Ill.
KOVEN, L. O. & BRO., 50 Cliff, New
York. (See adv. index, end of book)
Martin, Henry Brick Machine Mfg. Co., Lan-
caster, Pa.
Means Foundry & Machine Co., Steubenville, O.
Phillips & McLaren (Also Wet Pans), 24th &
Smallman, Pittsburg, Pa.
Power & Mining Machinery Co., 52 William,
New York. Works, Cudahy, Wis.
Raymond, C. W. Co., Dayton, O.
Stevenson Co., Wellsville, O.
Taplin, Rice & Co. (Also Wet), Akron, O.
Turner, Vaughn & Taylor Co. Cuyahoga Falls, O.
Webster, Camp & Lane Machine Co., Akron, O.

Pans (Dust)

Delphos Mfg. Co. ("Delphos" Long Handle),
Delphos, Ohio
Knapp Mfg. Co., 24 Frankfort, New York

Pans (Evaporating)

BETHLEHEM FOUNDRY & MACHINE
Co. (Cast Iron), Front, South Bethlehem,
Pa., & 149 B'way, New York. (See adv.
index, end of book)
Dover Stamping & Mfg. Co., Cambridge, Mass.
Power & Mining Machinery Co., 52 William,
New York, & Cudahy, Wis.
Townsend Furnace & Machine Shop Co. (Cast
Iron, for Chemical Mfrs., etc.), Albany,
N. Y.

Pans (Gravel)

ALLIS-CHALMERS CO., Milwaukee,
Wis. (See adv. index, & branch offices, end
of book)
Hibbs, E. A. (Est. of), 213 Quarry, Phila., Pa.
KOVEN, L. O. & BRO., 50 Cliff, New
York. (See adv. index, end of book)
Power & Mining Machinery Co., 52 William,
New York, & Cudahy, Wis.

Pans (Grinding)

ALLIS-CHALMERS CO., Milwaukee,
Wis. (See adv. index, & branch offices,
end of book)
American Clay Working Machinery Co., Bucy-
rus, O., & 39 Cortlandt, N. Y.
Carlin's, hos. Sons Co., 1300 River av, Alle-
gheny, Pa.
Clearfield Machine Shop, (Ltd.), (Wet & Dry),
Clearfield, Pa.
Lewis Foundry & Machine Co., 1001 Bingham,
Pittsburg, Pa.
Phillips & McLaren, 24th & Smallman, Pitts-
burg, Pa.
Sterritt, Thos. Foundry Co., Pittsburg, Pa.
Turner, Vaughn & Taylor Co., Cuyahoga Falls,
O.
United Engineering & Foundry Co. (Pans 6 to
9 feet for Rolling Mills, etc.), Farmers'
Bank bldg., Pittsburg, Pa.

Pans (Lathe)

KOVEN, L. O. & BRO., 50 Cliff, New
York. (See adv. index, end of book)
LYON METALLIC MFG. CO., Aurora,
Ill. (See adv. index, end of book)
Ohio Mfg. Co., Painesville, O.
WILSON, F. CORTEZ & CO., 239
Lake, Chicago, Ill. (See adv. index, end of
book)

Pans (Refrigerator)

Atlantic Stamping Co. ("Atlantic" Galvanized
Iron), Rochester, N. Y.
WILSON, F. CORTEZ & CO., 239
Lake, Chicago, Ill. (See adv. index, end
of book)

Pans (Salt)

Eastwood Wire Mfg. Co., Belleville, N. J.

Pans (Shop)

Avery Stamping Co. (Sheet Steel), Cleveland, O.
Clark, W. J. Co. (Steel), Salem, O.
Kilbourne & Jacobs Mfg. Co. (Pressed Steel),
Columbus, O.
KOVEN, L. O. & BRO., 50 Cliff, New
York. (See adv. index, end of book)
LYON METALLIC MFG. CO., Aurora,
Ill. (See adv. index, end of book)
Ohio Mfg. Co., Painesville, O.

Pans (Steam Revolving)

Day, J. H. & Co., Cincinnati, O.
Holmbert, Chas. & Co., 50 Michigan, Chicago,
Ill.
KOVEN, L. O. & BRO., 50 Cliff, New
York. (See adv. index, end of book)

Pans (Sugar Coating)

Colton, Arthur (Revolving), 184 Brush, Detroit,
Mich.
KOVEN, L. O. & BRO., 50 Cliff, New
York. (See adv. index, end of book)

Pans (Vacuum)

Allentown Foundry & Machine Works Co.
(Inc.), Allentown, Pa.
ALLIS-CHALMERS CO., Milwaukee,
Wis. (See adv. index & branch offices, end
of book)
BADGER, E. B. & SONS CO., 75 Pitts,
Boston, Mass. (See adv. index, end of book)
Bartlett, Hayward & Co., Baltimore, Md.
Bowman, Walker, 39 Cortlandt, New York
Blymyer Iron Works Co., Spring Grove av &
Terrace pl, Cincinnati, O.
Coldwell-Wilcox Co., Newburgh, N. Y.
Cornell, J. B. & J. M. Co., 26th & 11th av,
New York
Deeley, Robt. & Co., 541 W 32d, New York
Dopp, H. Wm. & Son, 522 Ellicott, Buffalo,
N. Y.
Dyer Co., New England bldg., Cleveland, O.
Guild & Garrison, ft of S 10th, Brooklyn, N. Y.
Flynn Bros., Hoboken, N. J.
Harris, Arthur & Co., 44 N. Curtis st.
Haubtman & Loeb Co. (Ltd.), 222 S Peters,
New Orleans, La.
Holmberg, Chas. & Co., 50 Michigan, Chicago,
Ill.
Kehoe & Sons, Savannah, Ga.
Kilby Mfg. Co. (Copper, Bronze & Cast Iron),
Cleveland, O.
Krajewski-Pesant Co., 32 B'way, New York
Manistee Iron Works Co. (for Salt), Manistee,
Mich.
Marietta Iron Works Co., Manistee, Mich.
Maschinenfabrik, Grevenbroich, 76 William,
New York
Morris, Henry G., Phila. Bonrse, Phila., Pa.
Morris, P. Hollingsworth, 1501 S Front, Phila-
delphia, Pa.
Murphy, John H., 643 Magazine, New Orleans,
Payne & Joubert, 423 Carondelet, New Orleans,
La.
Phillips, Thos. Co., Providence, R. I.
Pioneer Iron Works, 149 Pioneer, Brooklyn,
Pusey & Jones Co., Wilmington, Del.
Risdon Iron Works, Steuart & Folsom, San
Francisco, Cal.
Rourke, John & Sons, Savannah, Ga.
Sperry, D. R. & Co., Batavia, Ill.
Squier, Geo. L. Mfg. Co., 420 Niagara, Buffalo,
N. Y.
Wasel's Copper Works, 50 N. 3d, Brooklyn, N. Y.
Wheeler Condenser & Engineering Co. (and Mul-
tiple Effects), 42 B'way, New York
Wood, R. D. & Co., 400 Chestnut, Phila., Pa.

*Pantographs

ASHCROFT MFG. CO., THE, 85, 87 &
89 Liberty, New York. Works, Bridgeport,
Conn. (See adv. index, end of book)
KOVEN, L. O. & BRO., 50 Cliff, New
York. (See adv. index, end of book)

*Pantry Windows (Revolving)

VAN KANNEL REVOLVING DOOR
Co. Home office, 524 E. 134th, New York.
(See adv. index & branch offices, end of book)

Paper (Anti-Rust)

Whittelsey Paper Co., Windsor Locks, Conn.

Paper (Blasting)

Megargee Bros. (Waterproof), Scranton, Pa.

Paper (Blotting)

Albermarle Paper Mfg. Co., Richmond, Va.
Bardeen Paper Co., Otsego, Mich.
Carter, Rice & Co. (Inc.), Boston, Mass.
Hampden Glazed Paper & Card Co., Holyoke, Mass.

Parker, Jos. & Son Co., New Haven, Conn.
Parsons Bros., 20 Vesey, New York
Richmond Paper Mfg. Co., Richmond, Va.
Wrenn Paper Co., Middletown, Ohio

Paper (Bond)

Mittineague Paper Co., Mittineague, Mass.

Paper Box Machinery

(See Machinery, Paper Box.)

Paper Can Mfrs.

(See also Tubes, Mailing)

Chicago Paper Tube & Can Co., 20 N May, Chicago, Ill.
Detroit Paper Tube & Can Co., 26 Griswold, Detroit, Mich.
Empire Paper Tube & Box Co., 445 West, New York
Hinde & Dausch Paper Co. (Corrugated), 171 Duane, New York
Improved Mailing Case Co., 158 W. Broadway, New York
New York Tube & Corrugated Paper Co., 33 Bethune, New York
Novelty Drum Package Co., 84 Watts, New York
St. Louis Paper Can & Tube Co., St. Louis, Mo.
Thompson & Norris Co. (Corrugated), Prince & Concord, Brooklyn, N. Y.
Union Paper Co., 844 Washington, New York

Paper (Carbon)

Able & Willing Mfg. Co., Merchants' bldg., Phila., Pa.
Acme Carbon Paper Co., 52 B'way, N. Y. City
American Manifold Co., 235 B'way, N. Y. City
American Ribbon & Carbon Co. ("Eagle"), Rochester, N. Y.
Buffalo Carbon Paper Co., Buffalo, N. Y.
Bullard Co. ("Bullard"), Wheeling, West Va.
Carter's Ink Co., 162 Columbus av., Boston, Mass.
Clarke & Zugalla, 90 Gold, N. Y. City
Columbia Ribbon & Carbon Co., 43 Murray, N. Y. City
Cooke, Douglas H., 18 Beaver, N. Y. City
Crown Ribbon & Carbon Mfg. Co., Rochester, N. Y.
De Fi Mfg. Co., 150 Nassau, N. Y. City
General Manifold Co., Franklin, Pa.
Indelbra Mfg. Co., Rochester, N. Y.
International Carbon Paper Co., 142 Worth, N. Y. City
Kee Lox Mfg. Co. ("Kee Lox"), Rochester, N. Y.
Krnse Printing Ink Co., 191 Cliff, N. Y. City
Little, A. P. (Cobweb), Rochester, N. Y.
Miller-Bryant-Pierce Co., Ansonia, Pa.
Mittag & Volgar, Park Ridge, N. J.
Non-Smmt Carbon Mfg. Co. ("Attorney," "Standard"), Rochester, N. Y.
Pen Carbon Manifold Co., 145 Centre, N. Y. City
Rogers Manifold & Carbon Paper Co., 75 Maiden lane, N. Y. City
Smith Paper Co., Lee, Mass.
Underwood, Jno. & Co., 50 Vesey, N. Y. City
Vacuo Carbon Co., Rochester, N. Y.
Webster, F. S. & Co., Boston, Mass.
Whitefield Carbon Paper Works, 123 Liberty, N. Y. City

Paper (Cash Register)

A. P. W. Paper Co. (In Rolls, Numbered or Plain), Albany, N. Y.

Paper (Copying & Manifold)

(See Railroad Stationery, Blanks, Manifestos, Etc.)

Paper (Corrugated)

Mae-Sinn Bar Paper Co., Otsego, Mich.
N. Y. Tube & Corrugated Paper Co. (Single & Double Face), 33 Bethune, New York
Park Novelty Co., 24th & Hamilton, Phila., Pa.
Thompson & Norris Co., c Prince & Concord, Brooklyn, N. Y.

Paper (Detail)

Mittineague Paper Co. (for Architects & Engineers, etc.), Mittineague, Mass.

***Paper (Drawing & Tracing)**

SOLTMANN, E. G.

(Also everything for the Architect, Engineer & Draughting Room), 125 E 42d, New York. (See adv. index, end of book)

Paper (Flint)

Coryell Flint Paper Co., Williamsport, Pa.

Paper (Fly)

Grand Rapids Sticky Fly Paper Co., Grand Rapids, Mich.
Thum, O. W. Co. ("Tanglefoot"), Grand Rapids, Mich.

Paper (Grease Proof)

Vellumoid Paper Co., Worcester, Mass.

Paper (Insulating)

(See Insulating Paper)

Paper Mill Machinery

(See Machinery, Paper & Pulp Mill)

Paper (Parchment)

Schmidt & Ault Paper Co., York, Pa.

Paper (Railroad Manilla & Writing)

Arlington Paper Co., Salisbury Mills, N. Y.
Cumberland Paper Co., Cumberland, Me.
Eastern Mfg. Co., Bangor, Me.
Robertson Paper Co., Bellows' Falls, Vt.
Telulab Paper Co., Appleton, Wis.
Thilmany Pulp & Paper Mills, Kaukauna, Wis.

Paper (Roll Wrapping)

New York Roll Wrapping Paper Co. ("Hopping Simplex"), 236 Pearl, New York

Paper (Roofing & Sheathing)

(Firms or Mills marked with a star (*) manufacture only Sheathing Papers. (See also Building & Sheathing Papers of various kinds.)

Bardeen Paper Co., Otsego, Mich.
Barrett Mfg. Co., Land Title bldg., Chicago, Ill.
Bird, F. W. & Son ("Neponset"), East Walpole, Mass.
Buchanan-Foster Co., Drexel bldg., Phila., Pa.
CABOT, SAM'L. (Sheathing Quilt), 141 Milk, Boston, Mass., & 28 Dearborn av., Chicago, Ill. (See adv. index & branch offices, end of book)
Chatfield & Wood Co., 347 W 4th, Cleveland, O.
Coons, Fred. M., Rockton, Ill.
Crescent Compound Mfg. Co. (Inc.) ("Crescent"), Arrott bldg., Pittsburg, Pa., & Ellen, L. C., Cheyney, Pa.
Diem & Wing Paper Co., 8th & Eggleston av., Cincinnati, O.
*Eastern Straw Board Co., Versailles, Conn.
Field & White, 116 Nassau, New York
Fleming, John G. & Sons, Oak Cliff, Tex.
Fox Paper Co., Lockland, O.
Garrett, C. S. & Co., 21 Decatur, Phila., Pa.
*House, F. A. & Co., Haddam Neck, Conn.
*Lafean Paper Co., York, Pa.
Lang, John (Est. of), N 24th & Vine, Phila., Pa.
*Leadbetter, F. W., Camas, Wash.
*Lincoln, L. & Co., North Dighton, Mass.
Lockport Paper Co., Lockport, N. Y.
Los Angeles Paper Mfg. Co., Los Angeles, Cal.
Lydall & Foulds Paper Co., Manchester, Conn.
Lyons, James, Evergreen, Brooklyn, N. Y.

MUNN-PRICE CO. ("Diamond P" Waterproof), 413 W B'way, New York. (See adv. index, end of book)
Munroe Felt & Paper Co., 77 Summer, Boston.
*Newton Paper Co., Holyoke, Mass.
*Nutley Paper Mills, Nutley, N. J.
Richardson Paper Co., Franklin, O.
*Schmidt & Ault Paper Co., York, Pa.
*Sherman, Isaac N., Marcellus Falls, N. Y.

Susquehanna Roofing Mfg. Co. (Tar Roofing Papers, 2 & 3 Ply), Cly, Pa.
WATSON, H. F. CO., Erie, Pa. (See adv. index & branch offices, end of book)
York Felt & Paper Co., York, Pa.
York Haven Paper Co., York Haven, Pa., & 11 B'way, New York

Paper (Toilet)

A. P. W. Paper Co. (In Rolls & Packages), Albany, N. Y.
Manifold Toilet Paper Co., Leominster, Mass.
Weston Paper & Mfg. Co. ("Tiger"), Dayton, O.

Paper (Train Order)

Whittlesey Paper Co., Windsor Locks, Conn.

Paper & Paint Filler

Massena Mineral Filler Co. (Miners & Mfrs.), Massena, N. Y.
Wainwright, John C. A. (Paint Filler), Spring City, Pa.

Paper (Wrapping, in Rolls)

A. P. W. Paper Co., Albany, N. Y.

***Papers (Gummed)**

KNOWLTON, M. D. CO., Rochester, N. Y. (See adv. index & branch offices, end of book)

Papers (Rope)

KNOWLTON, M. D. CO., Rochester, N. Y. (See adv. index & branch offices, end of book)
Union Mills Paper Mfg. Co. (Pure Rope Papers & Colored Rope Specialties), New Hope, Pa.

Papers (Waxed or Paraffine)

A. P. W. Paper Co. (In Rolls), Albany, N. Y.
Dayton Paper Novelty Co., Dayton, O.
Hammerschlag Mfg. Co., 232 Greenwich, N. Y.
Paraffin Paper Co., Otsego, Mich.
Raubsville Paper Mills Co., Raubsville, Pa.
Union Waxed & Parchment Paper Co., 277 B'way, New York

Papers (Wrapping)

Translucent Fabric Co. (Cloth Lined, Waterproof), Quincy, Mass.

Papier Mache Mfrs.

DECORATORS' SUPPLY CO., Archer av & Leo, Chicago, Ill. (See adv. index, end of book)
De Planque, F. R., 1349 Ridge av., Phila., Pa.
Dini, Geo. L., 497 Atlantic av., Brooklyn, N. Y.
EMMEL, CHAS. (Architectural), 383 Albany, Boston, Mass. (See adv. index & branch offices, end of book)
Fowle, Herbert, 43 Bristol, Boston, Mass.
Klee, Thomson Co., 329 E 40th New York
Koppe & Steinichen (Architectural), 89 Houston, Atlanta, Ga.
Lombard, A. P., 101 Bristol, Boston, Mass.
Milner & Pride, 43 Bristol, Boston, Mass.
Plastic Relief Mfg Co., 298 N Halsted, Chicago, Ill.
Sinnott, Jas. M. & Co., 168 Atlantic av., Brooklyn, N. Y.
Tognarelli & Voigt, 2310 Chestnut, Phila., Pa.
Union Fiber Co., Winona, Minn., & 143 Reed, Milwaukee, Wis.
Van Malderen, F., Ann & Jumonville, Pittsburg, Pa.
Verpellier, H. E. & Co., 288 Washington, Newark, N. J.
Vogt, Paul & Sons, 110 Tremont, Boston, Mass.
Walter, G. E. Co., 157 E 44th, New York
Whitman, J. Franklin Co., 432 N 12th, Philadelphia, Pa.

Parallels (Planer)

Walker, Oakley S. & Co., Worcester, Mass.

Parers (Fruit & Vegetable)

Bonney Vise & Tool Works (Inc.) (Potato), 3015 Chestnut, Phila., Pa.
Goodell Co. (Apple & Potato, etc.), Antrim, N. H.
Hudson Parer Co. (Apple), Leominster, Mass.
Reading Hardware Co., Reading, Pa. ("78")
Sayre, L. A. Co. (Rotary Knife), Newark, N. J.

Paris White

Stickney, Terrell & Co., 31 Milk, Boston, Mass.
Taintor, H. F. Mfg. Co., 200 Water, New York.

Park Furniture

(See Settees, various kinds; also Fountains, Vases, etc.; also Rustic Work; also Swings, Lawn)

Parquetry Floors

(See Floors, Parquet)

Partitions (Steel Rolling)

Columbus Steel Rolling Shutter Co. (Steel), Columbus, O.

KINNEAR MFG. CO. (Steel), Columbus, O. (See adv. index & branch offices, end of book)

ROLLING STEEL SHUTTER WORKS (John McLean), 162 W 27th, New York. (See adv. index, end of book)

SMITH, F. P. WIRE & IRON WORKS 100 Lake, Chicago, Ill. (See adv. index, end of book)

WILSON, JAMES G. MFG. CO., Chief Office, 3 W 29th, New York. Mills & Factory, Norfolk, W. Va. (See adv. index, end of book)

Partitions (Wood Rolling)

Dodge, H. R. & Co. (Mfrs.' Agents), 933-108 Lasalle, Chicago, Ill.

Flexifold Door & Shutter Co., Worcester, Mass.

Hartman Sliding Blind Co. (Ball Bearing), Bowling Green, Ky.

Monroe Screen Blind & Partition Co. (Ball Rolling), Lima, O.

WILSON, JAMES G. MFG. CO., Chief Office, 3 W 29th, New York. Mills & Factory, Norfolk, W. Va. (See adv. index, end of book)

Passenger Car Mfrs.

(See Cars, Passenger.)

*Paste (Anti-Rust)

ATLAS PAINT CO., 2638 Liberty av, Pittsburg, Pa. (See adv. index, end of book)

Paste (Canners', Etc.)

Arafol Mfg. Co. (Paste Powder & Paste Tinnol), 100 William, New York

Electric Cleanser Co., Canton, O.

Paste (Plumbers')

Starbuck, R. N. & Son, Hartford, Conn.

Pasteurizers (Milk, Etc.)

Burrell, D. H. & Co., Little Falls, N. Y.
Reid, A. H., Creamery & Dairy Supply Co. ("Reid"), 30th & Market, Phila., Pa.
Stoddard Mfg. Co. ("Farrington," "Duplex"), Rutland, Vt.

*Patent Office Printed Bristol Boards

SOLTMANN, E. G.

(Also everything for the Architect, Engineer & Draughting Room), 125 E 42d, New York. (See adv. index, end of book)

Patterns & Models

ABENDROTH & ROOT MFG. CO., Newburg, N. Y. (See adv. index & branch offices, end of book)

Acme Pattern Works, Buffalo, N. Y.

Adamson, Alex., Akron, Ohio

Allen, Geo. R. (Metal or Wooden, for Machine & Casting Work), 500 N 13th, Phila., Pa.

Allison & Lewis Pattern Works, Wyandot & Shawnee sts, Dayton, O.

Ames, B. C. & Co. (Models & Experimental Work), Waltham, Mass.

Arthur Co. (Models Experimental Work), 188 Front, N. Y.

Baltimore Pattern & Model Works (Metal & Wood Models & Patterns), 218 Holliday, Baltimore, Md.

Banner Iron Works, St. Louis, Mo.

Brantner, Wm. Pattern Works (Patterns only), 37 Scioto st., Columbus, O.

Brnsh & Stephens Co. (Patterns), 106 Penn av, Pittsburg, Pa.

Buffalo Gear & Pattern Works (Gear Patterns Cut by Machinery), 20 Elk, Buffalo, N. Y.

Buffalo Pattern Works (Inc.) (Wood & Metal Patterns), Buffalo, N. Y.

Buchel Machine Works (And Experimental Work), 827 Conti, New Orleans, La.

Canton Malleable Iron Co. (Brass), Canton, O.

Carr, David & Co. (Patterns), 2074 Detroit, Cleveland, O.

Clark, Jno. W. (Metal Patterns), Albany, N. Y.

Cole Mfg. Co., Lakeport, N. H.

Columbia Machine Works & Malleable Iron Co. (Metal), 269 Chestnut, Brooklyn, N. Y.

Dayton Pattern Works, Dayton, O.

East End Pattern Works (Wood), 72 E. Prospect st., Cleveland, O.

Eastwood Wire Mfg. Co., Belleville, N. J.

Enterpriso Mfg. Co., Newburgh, N. Y.

Eynon-Evans Mfg. Co. (Patterns Only), 1519 Clearfield, Phila., Pa., & 107 Liberty, N. Y.

Fenn Machine Co. (Models), Hartford, Conn.

Flint, Lomax Electric & Mfg. Co., 1400 Delgany, Denver, Colo.

Fogg, A. A. & H. G. (Metal Patterns), Meriden, Conn.

Forsyth Pattern Co. (Patterns for Castings from 1/4 lb. to 75 tons), Youngstown, O.

Frankham, Wm. (Metal), Canton, O.

Gaisler, O. Jr. Pattern Co., St. Louis, Mo.

Gage, A. S. & Co., Gardner, Mass.

Gardem, Wm. & Son (Inc.), 45 Rose, New York city

Gem City Pattern Works (Wood & Metal), 10-12 S. Canal st., Dayton, O.

Gobeille Pattern Co. (Wood), Cleveland, O.

Gorning & Luley, St. Louis, Mo.

Grant Mfg. & Machine Co. (Metal, Experimental, etc.), Bridgeport, Conn.

Hamilton Metal Pattern Co. (Metal), Hamilton, O.

Hardoin Brass Works, 180 Brush, Detroit, Mich.

Harring, Atwood Brass Mfg. Co. (Metal Models & Patterns, Grand Rapids, Mich.

Hartmann, Jno., 13 N. Jefferson, Chicago, Ill.

Holstein, Chas. W., 515 W. 1st av, Columbus, O.

Huetter Machine & Tool Co., Indianapolis, Ind.

Hurd & Haggin (Experimental Work & Model Making; Shop Drawings & Specifications furnished for Machines, etc.), 316 Hndson, New Huse, W. D. & Sons, Laconia, N. H.

Jenkins & Beach, 1535 Ridge av, Phila., Pa.

Kahl, Fred. Pattern Co. (Wood & Metal Patterns), 12 St. Aubin, Detroit, Mich.

Kidder, R. E. (All Sizes), Worcester, Mass.

Knight, W. B. & Co. (Metal), 2025 Lucas av, St. Louis, Mo.

Lewis, Chas. H., 120 S State, Syracuse, N. Y.

Lightford & Foster, Indianapolis, Ind.

Lipe, C. E. (Est.), 208 S Geddes, Syracuse, N. Y.

Loeffelholz Co. (Brass), Milwaukee, Wis.

Lowell Pattern Co., Lowell, Mass.

Luzier, T. B. & Son, 479 N 5th, Phila., Pa.

McClure, John C. (Wood), 134 Orange, Newark, N. J.

McLaughlin, Jno. K., 215 N 2d, Phila., Pa.

McNamara-Koster Foundry Co. (Patterns & Models), Indianapolis, Ind.

Macphail Molding Machine Co. (Wood & Metal), Davenport, Ia.

Mahoning Pattern Co. (All Kinds of Patterns), Youngstown, O.

Mahoning Foundry & Machine Co. (Patterns), Youngstown, O.

Mansfield Pattern & Model Works, Mansfield, O.

Medart, Fred., 3535 DeKalb, St. Louis, Mo.

Moore, E. J. Machine & Foundry Co. (Patterns), 2227 Wood, Phila., Pa.

Nacke, A. & Son (Metal), 723 Sansom, Philadelphia, Pa.

Neslage, Herman F., 1023 S 11th, St. Louis, Mo.

Noble, Henry A., 203 Dock, Philadelphia, Pa.

Norris Pattern Works (Patterns), Norristown, Pa.

Roberts & Norton, Utica, N. Y.

Rudolph, Wm. F. (Models & Experimental Works), 234 N. Broad, Phila.

Safety Meter Lock Co. (Metal Patterns), Columbus, O.

Sawin, Edw'd H., Gardner, Mass.

Shepard, Amos L. (Models & Metal & Wood Patterns), Plantsville, Conn.

Sherer, Wm. Mfg. Co., 23 Champlain, Cleveland, O.

Snyder, Henry, Mansfield, Ohio.

Standard Pattern Co. (Patterns of All Kinds), 39th & Smallman, Pittsburg, Pa.

Stover Mfg. Co. (Metal Patterns), Freeport, Ill.

Taisey, W. H. Machine & Tool Co., Indianapolis, Ind.

Tenney, Chas. L. (Patterns & Models), Fitch-Tittle, R. D., Springfield, O.

Townsend Furnace & Machine Shop Co., Albany, N. Y.

Trumbull Mfg. Co. (Patterns), Warren, O.

Turner Brass Works (Brass, etc.), 66 Michigan, Chicago, Ill.

Twentieth Century Brass & Iron Works (Metal), Minneapolis, Minn.

Walker & Kyle (Patterns), Wilmington, Del.

Washburn, Lettie R. (Patterns & Models), New Bedford, Mass.

Wenzel, C. E. Co. (Metal Models & Experimental Work), 331 Market, Newark, N. J.

West Side Foundry Co. (Wood & Metal Patterns), Watervliet, Troy, N. Y.

Wichita Mfg. Co. (Wood & Metal), Wichita, Kan.

Willamette Iron & Steel Works, Portland, Ore.

Williamson & Son, Indianapolis, Ind.

York Pattern Works, York, Pa.

Youngstown Foundry & Machine Co., Youngstown, O.

Paulins

McAuley, J. A. Tent & Awning Co., Columbus, O.

*Paulins & Covers (Waterproof)

CARPENTER, GEO. B. & CO., 202 S Water, Chicago, Ill. (See adv. index, end of book)

Pavement Lights

(See Vanlt & Sidewalk Lights, Plain & Prism, etc.)

Paving Blocks (Asphalt)

Barrett Mfg. Co., Land Title bldg, Chicago, Ill.
Block & Tile Paving Co., Norristown, Pa.
Bradbury, Frank & Son, West Franklin, Me.
Gilson Asphaltum Co., Holland bldg, St. Louis, Mo.

Hastings Pavement Co., Hastings-on-the-Hudson, N. Y., & 25 Broad, New York

Lake Erie Asphalt Block Co., Toledo, O.

New Castle Asphalt Block Co., New Castle, Pa.

Taylor, Ronald, 520 E 20th, New York

Washington Asphalt Block & Tile Co., S Capital & R, S E, Washington, D. C.

Paving Blocks (Cedar)

(See Paving Blocks, Wood.)

Paving Blocks (Granite)

(See also Granite Producers, Workers & Dealers.)

Anderson, Ola., Concord, N. H.

Bodwell Granite Co., Rockland, Me.

BOOTH BROS. & HURRICANE ISLE Granite Co., 207 B'way, New York

Bradbury, Frank & Son, West Franklin, Me.

FLETCHER, H. E. & CO. (Street, Curbing, etc.), West Chelmsford, Mass. (See adv. index & branch offices, end of book)

Flynt, W. N. Granite Co., Monson, Mass.

GUILFORD & WALTERSVILLE Granite Co., 2 E Lexington, Baltimore, Md. (See adv. index, end of book)

Hallowell Granite Works, Hallowell, Me.

Lahy, Thos., Haverhill, Mass.

LEOPOLD, J. & CO., 18 B'way, New York. (See adv. index & branch offices, end of book)

Lowe & Handley, East Sionx Falls, S. Dakota

Maryland Granite Co., Knickerbocker bldg, Baltimore, Md.

Milwaukee Monument Co., Milwaukee, Wis.

Montello Granite Co., 59 Clark, Chicago, Ill.

Mount Waldo Granite Works, Frankfort, Me.

NEW ENGLAND GRANITE WORKS, Westerly, R. I. & Concord, N. H. (See adv. index, end of book)

New York & Maine Granite Paving Block Co., 277 B'way, New York
 Peirce, John Co., West Street bldg, New York
 Pigeon Hill Granite Co., Pigeon Cove, Mass., & West Lebanon, N. H.
 Prout Bros., Quincy, Mass.
 Rendt, Louis B., 78 Broad, New York
ROCKPORT GRANITE CO., Rock-
 port, Mass. (See adv. index & branch of-
 fices, end of book)
 Schnelder Granite Co., Fullerton bldg, St.
 Louis, Mo. Quarries, Graniteville, Mo.
 Skrainka Construction Co., 319 N 4th, St. Louis,
 Mo.
 Southern Granite Co., Wiggins blk, Cincinnati,
 O., & Lithonia, Ga.
 Standard Granite Co., Mt. Desert, Me.
 Webb Granite & Construction Co., Worcester,
 Mass.
 White Granite Co., Long Island City, N. Y.
 Quarries, Blue Hill, Me.
 Winnsboro Granite Co., Charleston & Rion, S. O.

Paving Blocks (Stone)

Medina Quarry Co., Albion, N. Y.

*Paving Blocks (Street Railway)

FLETCHER, H. E. & CO., West
 Chelmsford, Mass. (See adv. index, end of
 book)

Paving Blocks (Vitrified)

(See Brick Mfrs.—Vitrified Paving—Indicated by
 a star (*) in Front of Name.)

Paving Blocks (Wood)

Conway, R. F. Co. (Cedar), 138 Wash'n, Chi-
 cago, Ill.
 Jones, W. R. (Cedar), Muskegon, Mich.
 Morse Cedar Co. (Cedar), Saginaw, Mich.
 Naugle, E. E. Tie Co. (Cedar), 226 La Salle,
 Chicago, Ill.
 Palmer, W. O. B., Robey, s of Blue Island av,
 Chicago, Ill.
 Peirce, W. E. & Co., Milford, N. H.
 Republic Chemical & Creosoting Co. ("Kreo-
 done," Creosoted), Indianapolis, Ind.
 Sterling, W. C. & Son (Cedar), Monroe, Mich.
 Talbot Paving Co. (Cedar), Detroit, Mich.
 United States Wood Preserving Co. ("Cr2o-
 Resinate" Process), 29 B'way, New York.
 Works: Perth Amboy, N. J.

Paving Contractors

(See Contractors, General; also Contractors, As-
 phalt Paving; also Cement & Concrete Pav-
 ing)

Paving Materials

(See Paving Blocks, various kinds; also Pitch,
 Paving & Roofing)

Paving Tools

(See Tools, Paving.)

Paving & Roofing Pitch

(See Pitch, Paving & Roofing; also Coal Tar
 Products.)

Pea-Hullers

(See Hullers, Pea & Bean.)

Peanut & Coffee Roasters

(See also Coffee, Peannt & Cocoa Bean Roasting
 Machines & Roasters, Coffee & Peanut.)

Peavies

CARPENTER, GEO. B. & CO., 202 S
 Water, Chicago, Ill. (See adv. index, end
 of book)
 Champion Tool & Handle Works (Solid Socket),
 Evart, Mich.
 Evart Tool Co. (Ltd.), Evart, Mich.
 Gerlach, Peter Co., 1703 Columbus road, Clevel-
 and, O.
 Oshkosh Logging Tool Co. (Socket, Pipe, etc.),
 Oshkosh, Wis.
 Prouty, O. & Co. (Also Peavie Handles), Eldred,
 Pa.

Peat-Moss

(See Moss, Peat)

Pedestals (Sun Dial)

Hartmann Bros. Mfg. Co., Mt. Vernon, N. Y.

Pencil Timber

Houston & Liggett (Cedar), Lewisburg, Tenn.

*Pencils (Chalk, Propelling & Repelling)

HARDTMUTH, L. & C., 34 E. 23d,
 New York. (See adv. index, end of book)

*Pencils (Copying Ink)

**HARDTMUTH, L. & C. ("Koh-I-
 Noor," "Mephisto"), 34 E. 23d, New York.** (See adv. index, end of book)

*Pencils (Drawing)

DIXON, JOS. CRUCIBLE CO., Jersey
 City, N. J. (See adv. index & branch of-
 fices, end of book)

**HARDTMUTH, L. & C. ("Koh-I-
 Noor"), 34 E. 23d, New York.** (See adv. in-
 dex, end of book)

SOLTMANN, E. G.

(Graphite, also Everything for the Architect,
 Engineer & Draughting Room), 125 E 42d,
 New York. (See adv. index, end of book)

Pencils (French Chalk)

Nevins, Saml. Co., 109 S 2d, Phila., Pa.

*Pencils (Graphite)

**DIXON, JOS. CRUCIBLE CO. ("Dix-
 on's" Office & Drawing Pencils), Jersey City,**
 N. J. (See adv. index & branch offices, end
 of book)

Pencils (Lead)

American Lead Pencil Co., Hoboken, N. J.
DIXON, JOS. CRUCIBLE CO., Jersey
 City, N. J. (See adv. index & branch of-
 fices, end of book)
 Eagle Pencil Co., 377 Broadway, New York
 Faber, A. W., 44 E. 23d, New York
 Faber, E., 545 Pearl, New York
**HARDTMUTH, L. & C. ("Koh-I-
 Noor"), 34 E 23d, New York.** (See adv. in-
 dex, end of book)

*Pencils (Lumber)

**DIXON, JOS. CRUCIBLE CO. (Gra-
 phite), Jersey City, N. J.** (See adv. index
 & branch offices, end of book)

Pencils (Slate)

Steward, D. M. Mfg. Co. ("Compo."), Chat-
 tanooga, Tenn.

Pencils (Talc & Soapstone)

Cohutta Talc Co. (Soapstone; also Crayon),
 Springplace, Ga.
**DIXON, JOS. CRUCIBLE CO., Mon-
 mouth & Wayne, Jersey City, N. J.** (See
 adv. index & branch offices, end of book)
 Doggett, Stanley (Mfrs.' Agt.), 101 Beekman,
 New York
 Steward, D. M. Mfg. Co., Chattanooga, Tenn.

Pens (Steel)

Estabrook Steel Pen Mfg. Co., Camden, N. J.
 Miller Bros. Cutlery Co., Meriden, Conn.
 Spencerian Pen Co., 349 B'way, New York

Penstocks

Atlantic Works, 70 Border, S. B., Boston, Mass.
 Clogston & Maynard, Fair Haven, Vt.
 Dalrymple, Geo. (Wrought Steel), Fair Haven,
 Vt.
 Dillon, D. M., Fitchburg, Mass.
 Franklin Boiler Works Co., Green Island, Troy,
 N. Y.
 Gem City Boiler Co., Dayton, O.

Holmes, J. H. & Co., Rutland, Vt.
 Holthoff Machinery Co., Cudahy, Wis.
 Humphrey Machine Co., Keene, N. H.
 Hunt, Rodney Machine Co., Orange, Mass.
KOVEN, L. O. & BRO., 50 Cliff, New
 York. (See adv. index, end of book)
 Leffel, James & Co. (Inc.), Springfield, O.
 Lowell Steam Boiler Works (Richard Dobbins,
 Prop.), Lowell, Mass.
 Platt Iron Works Co., Dayton, O., & 100 B'way,
 New York
PETROLEUM IRON WORKS CO.,
 Washington, Pa. & Pittsburg, Pa. (See adv.
 index, end of book)
 Pollock, Wm. B. Co., Youngstown, O.
 Poole Engineering & Machine Co. (For Water
 Wheels), Woodberry Station, Baltimore, Md.
 Portland Co., Portland, Me.
REEVES BROS. CO., Alliance, O.
 (See adv. index, end of book)
 Riter-Conley Mfg. Co., 55 Water, Pittsburg, Pa.,
 111 B'way, New York
 Robb-Mumford Boiler Co. (Inc.), South Fram-
 ingham, Mass.

Scannell Boiler Works, Lowell, Mass.
 Stafford, Wright, Lawrence, Mass.
STEARNS, A. T. LUMBER CO. (Wood),
 Neponset, Boston, Mass. (See adv. index,
 Struthers-Wells Co., Warren, Pa. end of book)
 Trump Mfg. Co., Springfield, O.
 U. S. Wind Engine & Pump Co., Batavia, Ill.
 Walsh Boiler & Iron Works, Springfield, Mass.
 Walsh's Holyoke Steam Boiler Works, Holyoke,
 Mass.

Perforated Metals

Atchison Perforating Co., 303 Dearborn, Chi-
 cago, Ill.
ALLIS-CHALMERS CO., Milwaukee,
 Wis. (See adv. index & branch offices, end
 of book)
 Beckley Perforating Co., Garwood, N. J.
 California Perforating Screen Co., Howard &
 Fremont, San Francisco, Cal.
CLINTON WIRE CLOTH CO. (for all
 purposes), Clinton, Mass. (See adv. index
 & branch offices, end of book)
 Eastwood Wire Mfg. Co., Belleville, N. J.
 Erdle & Schenck, Rochester, N. Y.
 Harrington & King Perforating Co., 224 N
 Union, Chicago, Ill.
 Hendrick Mfg. Co., Carbondale, Pa.
 Johnston & Chapman Co., 1345 Carroll av, Chi-
 cago, Ill.
 Littleford Bros., 453 E Pearl, Cincinnati, O.
 Manhattan Perforated Metal Co., 237 Centre,
 New York
MERRITT & CO., 1024 Ridge av,
 Phila., Pa. (See adv. index, end of book)
 Mundt, Charles & Sons, 441 Pearl, New York.
 Novelty Mfg. Co. (Also Embossed), Water-
 bury, Conn.
 Quick, Jno. W., 221 1st, San Francisco, Cal.
 San Francisco Pioneer Screen Works (John W.
 Quick, Prop.), 221 1st, San Francisco, Cal.
 Seibel-Suessdorf Copper & Iron Mfg. Co., St.
 Louis, Mo.
 Towne & Co. (C. H. Kimball, Prop.) (for
 Centrifugal Linings & Copper Bottoms for
 Wood Scouring Purposes), Worcester, Mass.

Petroleum & Its Products

American Oil Works (Ltd.), Titusville, Pa.
 Atlantic Refining Co., 3144 W Passy'k av,
 Phila., Pa.
 Climax Refining Co., Williamson bldg, Clevel-
 and, O.
 Columbia Oil Co., 13 William, New York
 Continental Refining Co. (Ltd.), Oil City, Pa.
 Cornplanter Refining Co., Warren, Pa.
 Crew-Levick Co., Phila., Pa.
 Crystal Oil Works, Oil City, Pa.
 Emery Mfg. Co., Bradford, Pa.
 Emlenton Refining Co., Emlenton, Pa.
 Empire Oil Works, Oil City, Pa.
 Germania Refining Co., Oil City, Pa.
 Guffey, J. M. Petroleum Co., Frick bldg,
 Pittsburg, Pa.
 Gulf Refining Co., Frick bldg, Pittsburg, Pa.
 Independent Refining Co. (Ltd.), Oil City, Pa.
 Indian Refining Co. (Crude Petroleum), George-
 town, Ky.
 Island Petroleum Co., Baltimore, Md.
 Island Petroleum Co., Pittsburg, Pa.
 Merchants Refining Co., Buffalo, N. Y.
 Miller, A. D. Sons Co., Allegheny, Pa.
 National Refining Co., E. 80th & Bessemer av.
 Paragon Refining Co., Toledo, O.
 Penn Refining Co., Oil City, Pa.
 Pittsburg, Oil Refining Co., 429 1st av, Pitts-
 burg, Pa.
 Pure Oil Co., Manhattan Life bldg, Phila., Pa.
 Seneca Oil Works, Warren, Pa.

Standard Oil Co., 26 B'way, New York
Sun Co., Phila., Pa.
Tide Water Oil & Pipe Co., 11 B'way, New York
Titusville Oil Works, Titusville, Pa.
Union Petroleum Co., 138 S 2d, Phila., Pa.
Warren Refining Co., Warren, Pa.

Pew End Mfrs.

McMillen, R. Co., Oshkosh, Wis.
Moore Mfg. Co., Springfield, Mo.
Pelree, W. E. & Co., Milford, N. H.
STEARNS, A. T. LUMBER CO., Neponset, Boston, Mass. (See adv. index, end of book)

Phonograph Horns

Nova Phono Horn Co., 22 Manhattan, New York
Standard Metal Mfg. Co., 10 Warren, New York

Phonographs

(See Talking Machines)

Phonoscopic or Electric Detectors

Kinsman Electric & Railway Supply Co., 55 Dey, New York

Phosphate Rock

Electric Phosphate Co. (Miners of Florida Land Pebble Phosphate Rock), Leominster, Mass.
Virginia-Carolina Chemical Co., Richmond, Va.

Phosphor Bronze

Crescent Phosphorized Metal Co. ("Crescent"), 2109 Indiana, Phila., Pa.
Damascus Bronze Co., Allegheny, Pa.
Edna Smelting & Refining Co., 525 Reading rd, Cincinnati, O.
Great Western Smelting & Refining Co., 173 W Kinzie, Chicago, Ill.
Hungerford, U. T. Brass & Copper Co. (Sheets, Rods, Wire, etc.), 497 Pearl, New York
Phosphor Bronze Smelting Co., 2200 Wash'n av, Philadelphia, Pa.
Reeves, Paul S. & Son, 1415 Catharine, Philadelphia, Pa.
Riverside Metal Co., Riverside, N. J.
Shimer, H. M. & Co., 19th & Washington av, Phila., Pa.

Phosphor Bronze Sheets

Crescent Phosphorized Metal Co. ("Crescent"), 2109 Indiana, Phila., Pa.
Phosphor Bronze Smelting Co., 2202 Wash'n av, Philadelphia, Pa.
Reeves, Paul S. & Son, 1413 Catherine, Philadelphia, Pa.
Riverside Metal Co., Riverside, N. J.

Phosphor Copper

Crescent Phosphorized Metal Co. ("Crescent"), 2109 Indiana, Phila., Pa.

Phosphor Tin

Crescent Phosphorized Metal Co. ("Crescent"), 2109 Indiana, Phila., Pa.
New Era Mfg. Co., Kalamazoo, Mich.

Phosphorizers

McCullough-Dalzell Crucible Co., Pittsburg, Pa.

Phosphoro (Metallic)

New Era Mfg. Co. (Phosphor Tin Improved) Kalamazoo, Mich.

Photographers (Architectural)

Archibald, David G., 345 E 33d, New York
Chautauqua Photographing Co., Empire bldg., Pittsburg, Pa.
Chicago Architectural Photographing Co. (Arch'l & Engineering), Marquette bldg., Chicago, Ill.
Darling, C. M., 122 W 36th, New York
Farnham, H. A., 313 Vine, Washington, D. C.
Johnston, R. W., 340 5th av., Pittsburg, Pa.
Langill, C. C., 10 E 14th, New York
McCullin, Thos. H. & Co., 54 N. 9th, Phila., Pa.
Rockwood Photographer (Inc.), 1409 B'way, New York
Taylor, J. W., 324 Dearborn, Chicago, Ill.

*Photographic Apparatus

QUEEN & CO. (Inc.), n. w. c 8th & Arch, Phila., Pa. (See adv. index, end of book)

Photometers

Bryan-Marsh Co., 227 Fulton, New York.
Connolly Iron Sponge & Governor Co. ("Jones' Jet"), 395 B'way, New York
Dwyer Machine Co., Lynn, Mass.
Electric Motor & Equipment Co., 13 Beaver, Newark, N. J.
Foote-Pierson & Co., 84 Fulton, N. Y.
Leeds & Northrup Co., 259 N. Broad, Phila., Pa.
QUEEN & CO. (Inc.), n. w. c 8th & Arch, Phila., Pa. (See adv. index, end of book)
Willyoung, Elmer G., 11 Frankfort, N. Y.

Pick Mfrs.

(See also Picks, Various Kinds.)

American Axe & Tool Co., Glassport, Pa., & 253 B'way, New York
Ames Plow Co., Quincy Hall, Boston, Mass.
Beaver Falls Mfg. & Fuel Co., Beaver Falls, Pa.
Colclessor Bros., El Dorado, Pa.
Collins Co., Collinsville, Conn.; 212 Water, New York
Eyeless Tool Co., Newark, N. J.
Findlay Axe & Tool Co., Findlay, O.
Gerher, Louis & Sons, 70 Walter av, Pittsburg, Pa.
Glifford, Fred C., Waltham, Mass.
Iron City Tool Works, Ltd., 32d & Smallman, Pittsburg, Pa.
Klein-Logan Co., Breed & S 13th, Pittsburg, Pa.
Peck Edge Tool Co., Cohoes, N. Y.
Plumb, Fayette R., c Tucker and Trenton av, Philadelphia, Pa.
Pollard, Jos. G., 141 Raymond, Brooklyn, N. Y.
Union Drop Forge Co., 66 E Ohio, Chicago, Ill.
Warwood Tool Co., Wheeling, W. Va.

Pickaroons

Champion Tool & Handle Works, Ewart, Mich.

Pickers (Bean)

Bacon Mfg. Co., Pontiac, Mich.

Pickers (Coffee & Peanut)

Lambert Food & Machine Co., Marshall, Mich.

Pickers (Corn)

(See Pickers & Huskers, Corn)

Pickers (Fruit)

Henry, John T., Mfg. Co. (Grape Pickers), Hamden, Mass.
WRIGHT WIRE CO. (Wire), Worcester, Mass. (See adv. index & branch offices, end of book)

Pickers & Huskers (Corn)

International Harvester Co. of America, 7 Monroe, Chicago, Ill. Oshorne Plant, Auburn, N. Y.
Taylor Husker & Shedder Co., Joliet, Ill.

Pickets (Cypress)

Cypress Selling Co. (Ltd.) (Red Cypress, etc.) New Orleans, La

Pickets (Steel Fence)

Morris, Herbert, Betz bldg., Phila., Pa.

Picks (Boiler)

Brewer Bros. (Wrought), 614 Filbert, Phila., Pa.
Pittsburg Tool & Drop Forge Co. ("Cheswick"), Cheswick, Pa.
Stortz, John & Son, 210 Vine, Phila., Pa.

Picks (Bung)

Bradley's, G. W., Sons (Inc.), Westport, Conn.

Picks (Clay)

ANDERSON, W. H., TOOL & SUPPLY Co., 14 Macomb, Detroit, Mich. (See adv. index, end of book)
Beaver Falls Mfg. & Fuel Co., Beaver Falls, Findlay Axe & Tool Co., Findlay, O. Pa.
Hubbard & Co., Pittsburg, Pa.
Iron City Tool Works (Ltd.), 32d & Smallman, Pittsburg, Pa.
Klein-Logan Co. Ore & Rock, Breed & S 13th, Pittsburg, Pa.
Pittsburg Tool & Drop Forge Co. ("Cheswick"), Cheswick, Pa.
Plumb, Fayette R. (Inc.), Frankford, Phila., Pa.
Solid Steel Tool & Forge Co. ("S. T. S."), Brackenridge, Pa.
Union Drop Forge Co., 66 E Ohio, Chicago, Ill.

*Picks (Coal, Locomotive Tender)

AMERICAN BRAKE SHOE & FOUNDRY Co. ("Tropenas," Cast Steel), 170 B'way, New York. Works & Sales Office, Chicago Heights, Ill. (See adv. index, end of book)

Picks (Contractors')

American Axe & Tool Co., Glassport, Pa.
ANDERSON, W. H., TOOL & SUPPLY Co., 14 Macomb, Detroit, Mich. (See adv. index, end of book)
Atha Tool Co., Newark, N. J.
Findlay Axe & Tool Co., Findlay, O.
Iron City Tool Works (Ltd.), 32d & Smallman, Pittsburg, Pa.
Isle, O. W. & Son, Boston, Mass.
Klein-Logan Co., S 13th & Breed, Pittsburg, Pa.
KOPPEL, ARTHUR, CO., 68 Broadway, New York. (See adv. index & branch offices, end of book)
Mack & Co. (Solid Edge, "Washoe" Pattern), Rochester, N. Y.
Montgomery Pick & Tool Co., Long Island City, N. Y.
Pollard, Jos. G., 141 Raymond, Brooklyn, N. Y.
Solid Steel Tool & Forge Co. ("S. T. S."), Brackenridge, Pa.
Union Drop Forge Co., 66 E Ohio, Chicago, Ill.
WIENER, ERNST CO., 68 Broad, New York. (See adv. index, end of book)

Picks (Drifting)

ANDERSON, W. H., TOOL & SUPPLY Co., 14 Macomb, Detroit, Mich. (See adv. index, end of book)
Beall Bros. (Inc.) (Solid Steel), Alton, Ill.
FAIRBANKS, MORSE & CO., Franklin & Monroe, Chicago, Ill. (See adv. index & branch offices, end of book)
Findlay Axe & Tool Co., Findlay, O.
Hardsogg Mfg. Co., Ottumwa, Ia.
Hardsogg, Martin Co., Allegheny, Pa.
Iron City Tool Works, 32d & Smallman, Pittsburg, Pa.
Klein-Logan Co., S 13th & Breed, Pittsburg, Pa.
Plumb, Fayette R. (Inc.), Frankford, Phila., Pa.
Solid Steel Tool & Forge Co. ("S. T. S."), Brackenridge, Pa.
Union Drop Forge Co., 66 E Ohio, Chicago, Ill.

Picks (Ice)

Alaska Freezer Co. (Hand), Winchendon, Miss.
Arcade Mfg. Co. (Also Sliding Pick), Freeport, Ill.
Browne & Dowd Mfg. Co., Meriden, Conn.
Cassady-Fairbank Mfg. Co., 6106 La Salle, Chicago, Ill.
Dover Stamping & Mfg. Co., Cambridge, Mass.
Ducharmes & Co., Shelburne Falls, Mass.
Erie Specialty Co. (Walker's), Erie, Pa.
Franklin Specialty Co. ("Dandy" Nickel Plated, Hickory Handle), Reading, Pa.
Halsey, C. W. ("Halsey" Ice Pick Clippers), Evansville, Ind.
Highton, Wm. & Sons, Nashua, N. H.
Landers, Frary & Clark (Steel Blade), New Britain, Conn.
Mayhew, H. H. Co., Shelbourne Falls, Mass.
Phoenix Hardware Co., Homer, N. Y.
Schutte, E. G. & Co., Cincinnati, O.
Smith, J. Barton Co., Norris & Hope, Phila., Pa.
Snell Mfg. Co., Fickdale, Mass.
Standard Tool Co., W Mansfield, Mass.
Stortz, John & Son (Also Ice Shavers), 210 Vine, Phila., Pa.

Stover Mfg. Co., Freeport, Ill.
Swan, Jas. Co., Seymour, Conn.
Troy Nickel Works (John E. Gaitley, prop'r.),
("Alaska" Nickel Plated Picks and Break-
ers), Albany, N. Y.
Tuck Mfg. Co. (Ice Awis), Brockton, Mass.

Picks (Locomotive Coal)

AMERICAN BRAKE SHOE & FOUN-
dry Co. (Cast Steel), 170 B'way, New York.
Works & Sales Office: Chicago Heights, Ill.
(See adv. index & branch offices, end of
book)
Dayton Malleable Iron Co. (Malleable Iron,
Points Ore Case Hardened), Dayton, O.
Hubbard & Co., Pittsburg, Pa.
Pittsburg Tool & Drop Forge Co. ("Cheswick"),
Cheswick, Pa.
Solid Steel Tool & Forge Co. ("S. T. S."),
Brackenridge, Pa.

Picks (Mattock)

(See Mattocks.)

Picks (Mill)

Bradley's, G. W. Sons (Inc.), Westport, Conn.
ANDERSON, W. H. TOOL SUPPLY
Co., 14 Macomb, Detroit, Mich. (See adv.
index, end of book)
Evansville Tool Works, Evansville, Ind.
Falts Mfg. Co., San Francisco, Cal.
HEARTLEY MACHINE, VARIETY
Iron & Tool Works, Toledo, O. (See adv.
index, end of book)
Higgins, John C. & Son ("Higgins"), 169 W
Kinzie, Chicago, Ill.
Kern, Amandus, Fleetwood, Pa.
Mack & Co., Rochester, N. Y.
Mixer, J. W. Saw Tool Co. ("Mixer" Mill
Stone), Plymouth, Mass.
Mohr, E. H., Vera Cruz, Pa.
Pittsburg Tool & Drop Forge Co. ("Cheswick"),
Cheswick, Pa.
Pollard, Jos. G., 141 Raymond, Brooklyn, N.Y.
Sprout, Waldron & Co., Muncy, Pa.
Stortz, John & Son, 210 Vine, Phila., Pa.

Picks (Mining)

American Axe & Tool Co., Glassport, Pa., &
253 B'way, New York
ANDERSON, W. H. TOOL SUPPLY
Co. (Coal), 14 Macomb, Detroit, Mich. (See
adv. index, end of book)
Beall Bros. (Inc.) (Solid Steel), Alton, Ill.
Beaver Falls Mfg. Fuel Co., Beaver Falls, Pa.
Evansville Tool Works, Evansville, Ind.
Findlay Axe & Tool Co., Findlay, O.
Gills, Jno. D. Sons, Philipsburg, Pa.
Hardsoeg, Martin Co., Allegheny, Pa.
Hubbard & Co. (Coal, etc.), Pittsburg, Pa.
Iron City Tool Works, 32d & Smallman, Pitts-
burg, Pa.
Jones & Laughlins Steel Co., Pittsburg, Pa.
Klein-Logan Co., Breed & S 13th, Pittsburg, Pa.
Pittsburg Tool & Drop Forge Co. ("Cheswick",
Coal, etc.), Cheswick, Pa.
Plumb, Fayette R. (Inc.), Frankford, Philadel-
phia, Pa.
Solid Steel Tool & Forge Co. ("S. T. S."),
Brackenridge, Pa.
Union Drop Forge Co. (Solid Steel Forged), 66
E Ohio, Chicago
Verona Tool Works, Verona, Pa., & Pittsburg
Warwood Tool Co., Wheeling, W. Va. Pa.

Picks (Mining Machine)

Gerber, Louis & Sons, 70 Walter, Pittsburg, Pa.
Harris, Wm. & Son (Puncher Picks), Allegheny,
Pa.
Pittsburg Tool & Drop Forge Co. ("Cheswick"),
Cheswick, Pa.

Picks (Poll)

Beall Bros. (Inc.) (Solid Steel), Alton, Ill.
Findlay Axe & Tool Co., Findlay, O.
Evansville Tool Works, Evansville, Ind.
Hubbard & Co., Pittsburg, Pa.
Iron City Tool Works, 32d & Smallman, Pitts-
burg, Pa.
Klein-Logan Co., S 13th & Breed, Pittsburg, Pa.
Plumb, Fayette R. (Inc.), Frankford, Phila., Pa.
Solid Steel Tool & Forge Co. ("S. T. S."),
Brackenridge, Pa.

Picks (Railroad)

American Axe & Tool Co. (Adze, Eye, etc.),
Glassport, Pa., & 253 B'way, New York
ANDERSON, W. H. TOOL SUPPLY
Co., 14 Macomb, Detroit, Mich. (See adv.
index, end of book)
Beall Bros. (Inc.) (Solid Steel), Alton, Ill.
Evansville Tool Works, Evansville, Ind.
Eyeless Tool Co., Newark, N. J.
Findlay Axe & Tool Co., Findlay, O.
Harvey, H. H., 606 Atlantic av, Boston
Iron City Tool Works, 32d & Smallman, Pitts-
burg, Pa.
Isle, A. W. & Son, Boston, Mass.
Kalamazoo Railway Supply Co., Kalamazoo,
Mich.
Klein-Logan Co., Breed & S 13th, Pittsburg,
Pa.
KOPPEL, ARTHUR CO., 68 Broad,
New York. (See adv. index & branch of-
fices, end of book)
Montgomery Pick & Tool Co., Long Island City,
N. Y.
Pittsburg Tool & Drop Forge Co., Cheswick, Pa.
Plumb, Fayette R. (Inc.), Frankford, Phila., Pa.
Pollard, Jos. G., 141 Raymond, Brooklyn, N.Y.
Solid Steel Tool & Forge Co. ("S. T. S."),
Brackenridge, Pa.
Union Drop Forge Co. (Forged Steel), 66 E Ohio,
Chicago, Ill.
Verona Tool Works, Verona, Pa., & Pittsburg
Warwood Tool Co., Wheeling, W. Va. Pa.
WIENER, ERNST CO., 68 Broad, New
York. (See adv. index, end of book)

Picks (Stone)

ANDERSON, W. H. TOOL SUPPLY
Co. (Mill), 14 Macomb, Detroit, Mich. (See
adv. index, end of book)
Atha Tool Co., Newark, N. J.
Beall Bros. (Inc.) (Solid Steel), Alton, Ill.
Beaver Falls Mfg. & Fuel Co., Beaver Falls,
Pa.
Black, H. B. & Co., Chester, Pa.
Evansville Tool Works, Evansville, Ind.
Hubbard & Co., Pittsburg, Pa.
Iron City Tool Works, 32d & Smallman, Pitts-
burg, Pa.
Isle, A. W. & Son, 51 Pitt, Boston, Mass.
Klein-Logan Co., S 13th & Breed, Pittsburg, Pa.
Pittsburg Tool & Drop Forge Co. ("Cheswick"),
Cheswick, Pa.
Plumb, Fayette R. (Inc.), Frankford, Phila., Pa.

Picks (Surface)

ANDERSON, W. H. TOOL SUPPLY
Co., 14 Macomb, Detroit, Mich. (See adv.
index, end of book)
Beall Bros. (Inc.) (Solid Steel), Alton, Ill.
Findlay Axe & Tool Co., Findlay, O.
Iron City Tool Works, 32d & Smallman, Pitts-
burg, Pa.
Plumb, Fayette R. (Inc.), Frankford, Phila., Pa.

Picks (Tamping)

ANDERSON, W. H. TOOL SUPPLY
Co., 14 Macomb, Detroit, Mich. (See adv.
index, end of book)
Beall Bros. (Inc.) (Solid Steel), Alton, Ill.
Hubbard & Co., Pittsburg, Pa.
Iron City Tool Works, 32d & Smallman, Pitts-
burg, Pa.
Klein-Logan Co., Breed & S 13th, Pittsburg, Pa.
Pittsburg Tool & Drop Forge Co. ("Cheswick"),
Cheswick, Pa.
Plumb, Fayette R. (Inc.), Frankford, Phila., Pa.
Solid Steel Tool & Forge Co. ("S. T. S."),
Brackenridge, Pa.
Union Drop Forge Co., 66 E Ohio, Chicago, Ill.
Verona Tool Works, Verona, Pa., & Pittsburg,
Pa.

Piezometers

American Steam Gauge & Valve Mfg. Co., 208
Camden, Boston, Mass.

Pig Copper

American Smelting & Refining Co., 71 B'way,
New York
Frankel, J., 81 Fulton, New York
Hendricks Bros., 49 Cliff, New York

Pig Lead

(See Lead Pipe & Sheet & Pig Lead.)

Pig Zinc

American Smelting & Refining Co., 71 B'way,
New York
Sandoval Zinc Co., 122 N Peoria, Chicago, Ill.
Works: Sandoval, Ill.

Pigeons (Clay)

Hoyt Metal Co., St. Louis, Mo., & Perth Am-
boy, N. J.

Pigments

Doggett, Stanley (Mfrs. Agt.), 101 Beekman,
New York
International Acheson Graphite Co. (Graphite),
Niagara Falls, N. Y.

Pile Driver Fittings

NATIONAL HOISTING ENGINE CO.,
Harrison, N. J. (See adv. index & branch of-
fices, end of book)
Vulcan Iron Works, Fulton & Irving av, Chica-
go, Ill.

Pile Drivers (Pneumatic)

(See Pneumatic Pile Drivers)

Pile Drivers (Railroad Car)

Beatty, M. & Sons, Wellard, Ontario, Can.
Industrial Works, Bay City, Mich.
Toledo Foundry & Machine Co., Toledo, O.
Vulcan Iron Works, Fulton & Irving av, Chicago
Ill.

Pile Drivers (Steam)

(See Pile Driving Machinery)

Pile Driving Contractors

(See also Dock Builders)

Armstrong & Latta, Land Title bldg, Phila.,
Pa.
Beaver Dam Lumber Co., Cumberland, Wis.
Blair, Robert P., Seabright, N. J.
Blakeman, M. A., 985 Stratford av, Bridge-
port, Conn.
Boston Oak Pile Co., 27 Kilby, Boston Mass.
Bradley, W. B. Construction Co., Richmond, Va.
Burgeson, C. F., 811 S G, Tacoma, Wash.
Burk, Walter F. & Co., 95 Milk, Boston, Mass.
Butler Bros. Construction Co., Globe bldg, St.
Paul, Minn., & 1170 B'way, New York
Cavanagh Bros., 471 Dorchester av, S. Boston,
Mass.
Cavanagh, Geo. H., 166 Devonshire, Boston,
Mass.
Chapman, A. F. & Co., Prudential bldg, Buffalo,
N. Y.
Cheney, El. R. (Est. of), 80 Pleasant st. (Brook-
line)
Cleary, James, 244 14th, Jersey City, N. J.
Costello & Neagle, Elmira, N. Y.
Cotter, Wm. T., Jacksonville, Fla.
Cram, D. Henry, 23 Powers st., S. Boston, Mass.
Crimmins, Thos., 444 E 69th, New York
Cronin, Barth. S., 573 Clinton, Brooklyn, N. Y.
Cross, E. Son Co. (Inc.), Portsmouth, Va.
Dailey, J. A. & Son, 191 Transit, Providence,
R. I.
Derry, Chas. T. & Co., 68 Devonshire, Boston,
Mass.
Dubois, Henry Sons Co., 17 State, New York
Dupuis, A. J. Co., 15 Atwater, Detroit, Mich.
Fath, C. H. & Son Construction Co., Electric
bldg, Cleveland, O.
Fitzsimons & Connell Co., Tacoma bldg, Chi-
cago, Ill.
Fruin-Bambrick Construction Co., Chemical
bldg, St. Louis, Mo.
Ginzel, Jno., Wyandotte, Mich.
Glandorf, C. H., 8th & Pium, Cinn., O.
Glenn, Benj., 2300 E Balto., Baltimore, Md.
Glover, G. J., Hibernia Bank bldg, New Or-
leans, La.
Great Lakes Dredge & Dock Co., 138 Washing-
ton, Chicago, Ill.
Griffin, M. J., 104 Lafferty pl., Detroit, Mich.
Harbrecht, Louis, 378 Plymouth av, Buffalo
Hathaway, J. E. & Co., Canal n 1st ay, Mil-
waukee, Wis.
Hayes, Geo. & Co., Boston, Mass.
Heahoeffer & Vaughan, Camden, N. J., & Wil-
mington, Del.
Humphreys, Geo., 135 W 9th, Brooklyn, N. Y.
Hunter, A. & Co., Arcade bldg, Providence, R.I.
Jenks, Edw. B. Co., 143 Liberty, New York
Panks, Geo. & Sons, 217 15th, Buffalo, N. Y.

Kansas City Bridge Co., 412 Mass bldg, Kansas City, Mo.
 Keith, J. H. & Co., Manitowoc, Wis.
 Lake Superior Piling Co., Duluth, Minn.
 Lawler Bros., 16 City sq, Chgo
 Leh, Jeremiah H. S., S Michigan c Ganson, Buffalo, N. Y.
 Love, Robt., Muckegon, Mich.
 Mayo Contracting Co., 43 Tremont, Boston, Mass.
 McCully Construction Co., Houser bldg, St. Louis, Mo.
 McDonald, C. I. & Co., House bldg, Pittsburgh, Pa.
 McGiffin, James & Co., Fernandina, Fla.
 McNally, Thos. Co., Bates & 2d av., Pittsburgh, Pa.
 Miller, Wm. L., 166 Devonshire, Boston, Mass.
 Monks, Jno. & Sons, 82 Beaver, New York
 Moore-Mansfield Construction Co. (Inc.), Bd. of Trade bldg., Indianapolis, Ind.
 Murray, W. D. & Co., Norfolk, Va.
 Northern Ohio Paving & Construction Co., Case Library bldg, Cleveland, O.
 Norton, F. A., 166 Devonshire, Boston, Mass.
 Norton, Wm. A., 285 Dorchester av, Boston, Mass.
 Parks, Geo. & Sons, 217 15th, Buffalo, N. Y.
 Rendle, W. S. Co., 135 Prescott, E. B., Boston, Mass.
 Ross, P. Sanford, 227 Wash'n, Jersey City, N. J., & Savannah, Ga.
 Ruggles, Thos. E., 95 Milk, Boston, Mass.
 St. Louis Bridge & Iron Co. (Steam), 3d & Washington, St. Louis, Mo.
 Sanford & Brooks Co., 15 South, Baltimore, Md., & Norfolk, Va.
 Stillman, F. M. Co., 26 Exchange pl., Jersey City, N. J.
 San Francisco Bridge Co., San Francisco, Cal., & 21 Park row, New York
 Scott, Thos. A. Co., New London, Conn.
 Scully, John T., Foundation & Transportation Co., 95 Milk, Boston, Mass.
 Smith Construction Co., 2931 Easton av., St. Louis, Mo.
 Smith, H. W. & E. G., 362 Border, Boston, Mass.
 Spearin & Preston, 17 Battery pl, New York
 Staats, R. P. & J. H., 29 B'way, N. Y.
 Standard Contracting Co., 63 Wade bldg, Cleveland, O.
 Steers, Henry, Jr., 1 B'way, N. Y.
 Stender, F. C. & Co., 139 Rhodes, Providence, R. I.
STEWART, JAS. & CO., Lincoln.
 Trust bldg., St. Louis, Mo. (For complete list of branch offices, see end of book)
 Strong, Chas. H. & Son, "The Cuyahoga," Cleveland, O.
 Sweeten, B. F. & Son, Cooper & Delaware, Terry, J. C., Fall River, Mass. Camden, N. J.
 Triune City Construction Co., Norfolk, Va.
 Trumbull, C. E. Co., 1121 Tremont bldg, Boston, Mass.
 Tidd, Lyman R., 166 Devonshire, Boston, Mass.
 Walsh, Jno. D., 397 Hancock, Brooklyn, N. Y.
 Walsh, T. & A., 96 Water, N. Y.
 Walsh & Masterson, 95 Clark, Chicago, Ill.
 Walworth Mfg. Co., 160 Oliver, Boston, Mass.
 Waterhouse, C. R., Jr., 40 Park, New Haven, Conn.
 Whitney Bros., Superior, Wis.
 Zachan, August, Superior, Wis.

Pile Driving Machinery

(See Machinery, Pile Driving)

Pile Shoes

BETHLEHEM FOUNDRY & MACHINE
 Co. (Cast Iron), South Bethlehem, Pa., & 149 B'way, New York. (See adv. index, end of book)
 Janney, Steinmetz & Co., 4th & Market, Phila., Pa.
MUNDY, J. S., 22 Prospect, Newark,
 N. J. (See adv. index & branch offices, end of book)
NATIONAL HOISTING ENGINE CO.,
 Harrison, N. J. (See adv. index & branch offices, end of book)
 Toledo Foundry & Machine Co., 202 Cherry, Toledo, O.
 Vulcan Iron Works, Fulton & Irving av, Chicago, Ill.

Piles (Concrete)

Corrugated Concrete Pile Co. of America, 1170 B'way, New York
 Cranford Paving Co., 15th & G, N W, Washington, D. C.
CUMMINGS STRUCTURAL CONCRETE
 Co. (Re-enforced), 4 Smithfield, Pittsburgh, Pa. (See adv. index, end of book)
 Foundation Co. (Engineers & Contractors), 35 Nassau, New York

Raymond Concrete Pile Co. ("Raymond"), 135 Adams, Chicago, Ill.
 Simplex Concrete Piling Co. ("Simplex"), 3400 Disston, Phila., Pa.
 Underwriters Engineering & Construction Co., 1170 B'way, New York

Piling (Interlocking Steel)

Carnegie Steel Co. ("Friestedt" Interlocking Channel Bar), Pittsburgh, Pa.
 Jackson, Geo. W. (Inc.), 169 W Jackson boul, Chicago, Ill.
 National Interlocking Steel Sheeting Co., 70 W Washington, Chicago, Ill.
 United States Steel Piling Co., 135 Adams, Chicago, Ill.

Piling (Interlocking Sheet Wood)

United States Steel Piling Co., 135 Adams, Chicago, Ill.

Piling Lumber

(See Ties, Poles & Posts.)

Piling (Sheet)

Norfolk Creosoting Co., Norfolk, Va.

*Piling (Sheet Steel)

RANSOME CONCRETE MACHINERY
 Co., Dunellen, N. J. (See adv. index end of book)
 Vanderkloot Steel Piling Co., 135 Adams, Chicago, Ill.

Pinch Dogs (Pattern Makers')

Johnson, Wm. (Hedenberg Works), Newark, N. J.

Pinchers

ARCADE MFG. CO. (Cast Iron), Free-
 port, Ill. (See adv. index, end of book)
 Atha Tool Co. (Farriers, etc.), ft. of Chapel, Newark, N. J.
 Dicke Tool Co. (Farriers, etc.), Downers Grove, Ill.
 Falls Mfg. Co., San Francisco, Cal.
 Heller Bros. Co., 879 Mt. Prospect av, Newark, N. J.
 National Novelty Corp. ("Brighton," Shoe, etc.), 826 B'way, New York
 Peck, Stow & Wilcox Co. (all kinds), Southington, Conn.
 Star Heel Plate Co., 63 Polk, Newark, N. J.
 Vaughn & Bushnell Mfg. Co. ("V. & B." Drop Forged, Carpenters', Blacksmiths', Farriers'), 875 W Carroll av, Chicago, Ill.
 Washington Tool Co. (Larson Combination, etc.)

Pinions

(See Gears & Pinions)

Pinions (Electric Railway)

(See Gears & Pinions.)

*Pinions (Pressed Steel)

BLISS, E. W. CO., 19 Adams, Brook-
 lyn, N. Y. (See adv. index, end of book)

*Pinions (Rawhide)

(See Gears, Pinions, Rawhide)

Pins (Belaying)

CARPENTER, GEO. B. & CO., 202 S
 Water, Chicago, Ill. (See adv. index, end of book)
 Dubuar, J. A. Mfg. Co., Northville, Mich.
 Laughlin, Thos. Co., Portland, Me.
McMILLAN'S, W. H. SONS, 153 South,
 York. (See adv. index, end of book)
 Marine Hardware & Equipment Co., South Portland, Me.
 Oshkosh Tool Mfg. Co., Oshkosh, Wis.
 Union Elevator & Machine Co., 144 Ontario, Chicago, Ill.
 Wilcox, Crittenden & Co., Middletown, Conn.

Pins (Brake)

New Castle Forge & Bolt Co. ("Air Brake"), New Castle, Pa.
 Scranton Bolt & Nut Co., Scranton, Pa.
 Solid Steel Tool & Forge Co., Farmers' Bank bldg, Pittsburgh, Pa.
 Steel Car Forge Co., Frick bldg, Pittsburgh, Pa.
 Works: Elwood City, Pa.

Pins (Brass, Dress, Etc.)

Crescent Machine Co. (Bank & Office Brass)
 Howe Mfg. Co. (also Shawl, Book, Corking & Mourning), Derby, Conn.
 Star Pin Co. (Brass, Mourning, Hair, etc.), Derby, Conn.

Pins (Bricklayers' Line)

Brewer Bros. (Wrought), 614 Filbert, Phila., Pa.

Pins (Butchers' Block)

Vaughn & Bushnell ("V. & B." Wrought Steel), 875 W Carroll av, Chicago, Ill.

Pins (Chain)

Transue & Williams Co., Alliance, O.

Pins (Channel)

Bistine Co. (Acme), The Rookery, Chicago, Ill.

Pins (Clothes)

Dermeritt & Palmer Packing Co. ("U. S." Spring), Waterbury, Vt.
 Dodge Clothespin Co., Cindersport, Pa.
 Escanaba Woodenware Co., Escanaba, Mich.
 Estes, E. B. & Sons, 75 Warren, New York
 Peirce, W. E. & Co., Milford, N. H.
 U. S. Clothespin Co., Montpelier, Vt.

Pins (Coupling)

(See Links & Pins, Coupling.)

Pins (Dowel)

(See also Dowel Rods)

AMERICAN STEEL & WIRE CO., The
 Rookery, Chicago, Ill. (See adv. index & branch offices, end of book)
 Kokomo Steel & Wire Co. (Barbed), Kokomo, Ind.
MORSE, FRANK W., 116 Bedford,
 Boston, Mass. (See adv. index, end of book)
 Norton Iron Works (Barber), Ashland, Ky.
 Oliver Machinery Co. (Brass), Grand Rapids, Mich.
 Phillips, Townsend & Co., N 4th & Glenwood av, Phila., Pa.
 Rowe, Henry Mfg. Co. (Wood), Newaygo, Mich.
 Shanafelt Mfg. Co. (Brass & Wood), Canton, O.
 Stephenson Mfg. Co. (Pointed & Spiral Grooved, etc., Wooden), South Bend, Ind.
 Winkley Co. (Brass), Hartford, Conn.

Pins (High Tension)

Creaghead Engineering Co. (Malleable Iron), 313 Walnut, Cincinnati, O.

Pins (Hinge)

Corbin Screw Corporation, New Britain, Conn.

Pins (Insulator)

(See Cross Arms, Brackets, etc., Steel; also Cross Arms, Brackets & Pins, Wood)

Pins (Knuckle)

New Castle Forge & Bolt Co., New Castle, Pa.
 Quincy-Manchester-Sargent Co. (Drop Forged), Old Colony bldg, Chicago, Ill., & 114 Liberty, New York
 Scranton Bolt & Nut Co., Scranton, Pa.
 Solid Steel Tool & Forge Co. ("S. T. S."), Farmers' Bank bldg, Pittsburgh, Pa.

Pins (Rolling)

Sommer's, Jno. Son (Wooden), Newark, N. J.
 Hawes, Jas. H. Mfg. Co., Towanda, Pa.

Pins (Safety)

Consolidated Safety Pin Co., Bloomfield, N. J.
Oakville Co., Waterbury, Conn.

Pins (Sash)

Estes, E. B. & Sons (Wooden), 75 Warren, New York
Kearsage Peg Co. (Wood), Bartlett, N. H.
Peirce, W. E. & Co. (Wood), Milford, N. H.
Western Brass Mfg. Works (Brass & Bronze),
21st & Rockwell, Chicago, Ill.
Wire Goods Co. (Barbed), Worcester, Mass.

Pins (Special)

Blake & Johnson (Aluminum & German Silver),
Waterbury, Conn.
Progressive Mfg. Co. (Steel, Copper, Brass,
German Silver, etc.), Torrington, Conn.

Pins (Stove Door)

Corbin Screw Corporation (Kuhn's), New Britain, Conn.
Ohio Nut & Bolt Co., Berea, O.

Pins (Taper)

Chicago Screw Co., 2 N Canal, Chicago
Cincinnati Screw & Tap Co., 2442 Beekman,
Cincinnati, O.
Corbin Screw Corporation, New Britain, Conn.
Detroit Screw Works, Detroit, Mich.
Hartford Machine Screw Co., Hartford, Conn.
MORSE TWIST DRILL & MACHINE
Co., New Bedford, Mass. (See adv. index,
end of book)
Perry-Fay Mfg. Co., Elyria, O.
Philadelphia Machine Screw Works, 624 Race,
Phila., Pa.
Pittsburg Screw & Bolt Co., Pittsburg, Pa.
St. Louis Screw Co., 600 E Clarence, St.
Louis, Mo.
Standard Tool Co., Central av & P. Ry, Cleve-
land, O.
Wells, F. E. & Son Co., Greenfield, Mass.
Western Automatic Machine Screw Co., Elyria,
O.
Worcester Machine & Screw Co., Worcester,
Mass.

Pins (Turn)

Johnson, Wm. (Hedenberg Works), Newark,
N. J.

Pipe Bending Machines

(See Machines Pipe Bending.)

Pipe Bends & Coils

Albright, Son & Co. (Wrought Iron), Allen-
town, Pa.
American Foundry & Construction Co., 4716 2d
av, Pittsburg, Pa.
American Tube Works, 20 Gold, New York
Best Mfg. Co. (Bend from 1-8 to 30), 25th &
R. R., Pittsburg, Pa.
Detroit Shipbuilding Co. (Brass Dep't) (Cop-
per), Detroit, Mich.
Harris, Arthur & Co. (Copper), 44 N Curtis st,
Chicago, Ill.
Harrisburg Pipe & Pipe Bending Co. (Iron, Cop-
per & Brass), Harrisburg, Pa.
Kelly & Jones Co., 135 Water, Pittsburg, Pa.
Lumsden & Van Stone Co., Boston, Mass.
National Pipe Bending Co. (Brass, Iron & Cop-
per), New Haven, Conn.
Philadelphia Pipe Bending Works, 4129 N 5th,
Phila., Pa.
Pittsburg Piping & Equipment Co. (up to 30
inches in diameter), 34th & Smallmann,
Pittsburg, Pa.
PITTSBURG VALVE, FOUNDRY &
Construction Co., 26th & A V Ry., Pittsburg,
Pa. (See adv. index, end of book)
Rempe Co. (Wrought Iron), N Sacramento &
Carroll avs, Chicago, Ill.
Simmons Pipe Bending Works, 142 Centre, New
York. Factory: Newark, N. J.
Vogt, Henry Machine Co., Louisville, Ky.
Walworth Construction & Supply Co., 100
Pearl, Boston, Mass.
Whitlock Coil Pipe Co. (Iron, Brass & Copper),
Hartford, Conn.

Pipe (Block Tin)

(See Also Lead Pipe & Sheet & Pig Lead.)

American Pipe Mfg. Co. (the Phipps), 114 N
Broad, Philadelphia, Pa.
Blatchford, E. W. Co., 70 N Clinton, Chicago,
Ill.

Chadwick-Boston Lead Co., Boston, Mass.
Colwell Lead Co., 51 Centre, New York
Le Roy Shot & Lead Works, 261 Water
Lewis, Jno. T. & Co., 231 S Front, Phila., Pa.
National Lead Co., 100 William, New York,
Branches in all prominent cities.
Robertson, Jas. Mfg. Co., 14 S Hanover, Balti-
more, Md.
Selby Smelting & Lead Co., San Francisco, Cal

Pipe Buckles

American Iron & Steel Mfg. Co., Lebanon, Pa.
Boston Bolt Co., 284 Franklin, Boston

Pipe (Cast Iron)

(See Cast Iron Pipe Mfrs. for Gas & Water
Mains; also Cast Iron Soil Pipe Mfrs.)

***Pipe (Cast Iron, High Pressure)**

PITTSBURG VALVE, FOUNDRY &
Construction Co., 26th & A V Ry., Pittsburg,
Pa. (See adv. index, end of book)

Pipe (Cast Steel)

Penn Steel Casting & Machine Co. (from 6 inch
up), Chester, Pa.
Seaboard Steel Casting Co., Chester, Pa.

Pipe Clamps (Steam Joint)

(See Clamps, Pipe.)

Pipe Coils

(See Pipe Bends & Coils.)

**Pipe Cutting & Threading Ma-
chines**

(See Machines, Pipe Cutting & Threading.)

Pipe Fittings

(See Fittings, Steam Pipe, etc.)

Pipe (Flange, Flexible Joint)

United States Cast Iron Pipe & Foundry Co.,
71 B'way, New York, & The Rookery, Chi-
cago, Ill.

***Pipe Foundry Plants**

WHITING FOUNDRY EQUIPMENT
Co., Harvey, Ill. (See adv. index, end of
book)

Pipe (Galvanized Iron)

(See Pipe & Tube Mills.)

Pipe (Glass)

(See Glass Pipe Mfrs.)

Pipe (Grapple)

Schulte Bros. (for Lowering Pipe in Wells,
etc.), Oregon Mo.

Pipe Hangers

(See Hangers, Pipe.)

Pipe Holders

(See Holders, Pipe Nipple.)

Pipe (Hydraulic)

American Pipe Mfg. Co. (Phipps' Patent Iron
Riveted, Cement Lined), 112 N Broad, Phila.,
Pa.
Best Mfg. Co., 25th & A. V. Ry., Pittsburg,
Pa.
PITTSBURG VALVE, FOUNDRY &
Construction Co., 26th & A V Ry., Pittsburg,
Pa. (See adv. index, end of book)
Power & Mining Machinery Co., 52 William,
New York. Works, Cudahy, Wis.
Reading Iron Co., Reading, Pa.
Seamless Tube Co. of America (Seamless), Frick
bldg, Pittsburg, Pa.
Union Iron Works, Spokane, Wash'n.
Youngstown Sheet & Tube Co., Youngstown, O.

Pipe (Hydraulic, Steel Riveted)

ABENDROTH & ROOT MFG. CO.,
Newburgh, N. Y. (See adv. index & branch
offices, end of book)

AMERICAN SPIRAL PIPE WORKS
"Taylor's", W 14th & 48th av, Chicago, Ill.,
& 39 Cortlandt, New York. (See adv. on
following page)

Aurora Boiler Works (Inc.), Aurora, Ill.
GRAVER, WM. TANK WORKS, East
Chicago, Ind. (See adv. index, end of book)

KOVEN, L. O. & BRO., 50 Cliff, New
York. (See adv. index, end of book)

Pollock, Wm. B. Co., Youngstown, O.
Power & Mining Machinery Co., 52 William,
New York. Works, Cudahy, Wis.

Pipe (Iron, Lead & Tin Lined)

Lamb & Ritchie Co. (Lead & Tin Lined), Cam-
bridge, Mass.
Lead Lined Iron Pipe Co., Wakefield, Mass.

Pipe Joint Paste

(See Cements, Pipe Joint.)

Pipe Joints (Flexible)

(See Joints, Flexible.)

Pipe (Lead)

(See Lead Pipe, Sheet & Pig Lead.)

Pipe (Lead, Tin Lined)

(See also Lead Pipe & Sheet & Pig Lead)
Bailey-Farrell Mfg. Co., 3d & Ross, Pittsburg,
Pa.

Chadwick-Boston Lead Co., Boston, Mass.
Colwell Lead Co., 63 Centre, New York
Le Roy Shot & Lead Wks., 261 Water, N. Y.
Lewis, Jno. T. & Bros. Co., 231 S Front, Phila.,
Pa.

National Lead Co., 100 William, New York
Tatham & Bros., 82 Beekman, New York

Pipe (Lock Bar, Steel)

East Jersey Pipe Co. ("Ferguson"), 71 B'way,
New York

***Pipe (Punched & Formed
Sheets)**

ABENDROTH & ROOT MFG. CO.,
Newburgh, N. Y. (See adv. index & branch
offices, end of book)

AMERICAN SPIRAL PIPE WORKS,
W. 14th & 48th av, Chicago, Ill., & 39 Cort-
landt, New York. (See adv. on following
page)

Pipe (Riveted Steel)

ALLIS-CHALMERS CO., Milwaukee,
Wis. (See adv. index & branch offices, end
of book)

ABENDROTH & ROOT MFG. CO.
(Straight Seam & "Root" Spiral), New-
burgh, N. Y. (See adv. index & branch of-
fices, end of book)

Abendroth & Stein, 39 Cortlandt, New York
AMERICAN SPIRAL PIPE WORKS
(& Sheet Iron, "Taylor's"), W. 14th & 48th
av., Chicago, Ill., & 39 Cortlandt, New York.
(See adv. on following page)

Carroll-Porter Boiler & Tank Co., Empire bldg,
Pittsburg, Pa. Works: Wellsville, O.
CODD, E. J. CO. ("Lockett"), 700-708
S. Caroline, Baltimore, Md. (See adv. index,
end of book)

Columbiana Boiler Co., Columbiana, O.
Consolidated Pipe Co., Los Angeles, Cal.
D'Alene Coeur Hdw. Co., Wallace, Idaho
East Jersey Pipe Co., 71 B'way, N. Y.

Freeman, S. & Sons Mfg. Co., Racine, Wis.
Gillespie, T. A., Westinghouse bldg., Pittsburg,
Pa., & 90 West, New York

Girard Boiler & Mfg. Co., Girard, O.
Hammond Iron Works, Warren, Pa.
Harrisburg Mfg. & Boiler Co., Harrisburg,
Pa., & 95 Liberty, N. Y.

Hodge Boiler Works, Sumner n N Ferry, E. B.,
Boston, Mass.

Keeler, E. Co., Williamsport, Pa.
King Bridge Co., Cleveland, O.

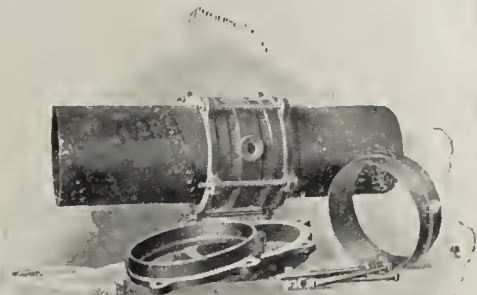
Kittoc Boiler & Tank Works, Canton, O.
KOVEN, L. O. & BRO., 50 Cliff, New
York. (See adv. index, end of book)



ROOT LITTLE GIANT



A. & R. FLANGED JOINT



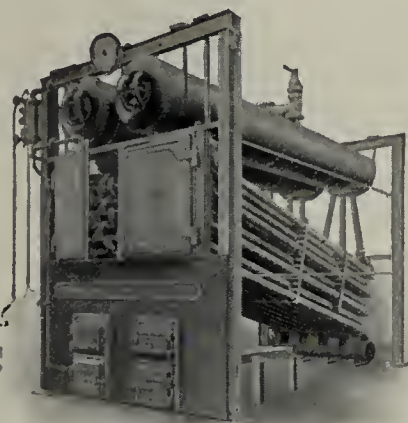
ROOT BOLTED JOINT



132 PAGE
HYDRAULIC HANDBOOK
No. 39
SENT POSTPAID ON REQUEST



HAND FORGED RIVETING TOOLS



FRONT VIEW
ROOT WATER TUBE BOILER



ABENDROTH & ROOT MFG. CO.

MAIN OFFICE & WORKS, NEWBURGH, N. Y.

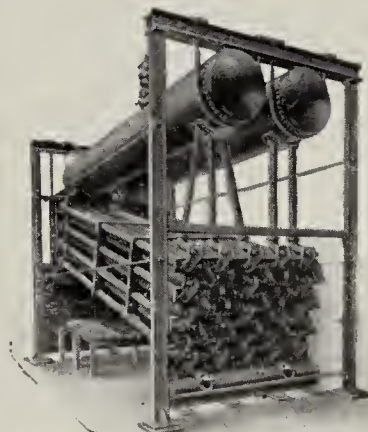
BRANCHES

NEW YORK
CHICAGO

PITTSBURG
MEXICO CITY



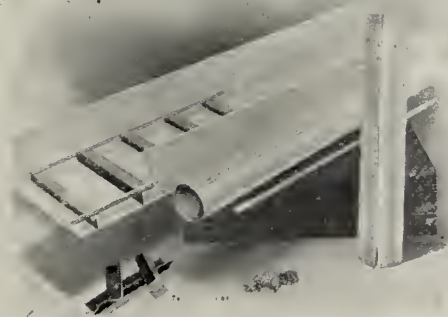
HYDRAULIC GRAVEL ELEVATOR



REAR VIEW
ROOT WATER TUBE BOILER



HUDSON EXHAUST HEAD



PUNCHED AND FORMED PIPE AND FLUME



FRONTENAC RUNABOUT,
40-45 HORSE POWER

ROOT SPIRAL RIVETED PIPE LISTS, SUBJECT TO DISCOUNT.

All prices and weights are figured per 100 lineal feet, in four 25-foot lengths if **ASPHALTED**, or in five 20-foot lengths if **GALVANIZED**. Shorter lengths involve additional joints and increase the price. For water pressure up to 100 lbs. we advise the use of regular pressure pipe gauges, as printed in bold face type. We list below only regular and extra heavy pressure pipe gauges. For complete lists see our Hydraulic Handbook No. 39, mailed postpaid on request.

| ASPHALTED | | | | DIAMETER IN INCHES | THICKNESS B. W. GAUGE | Approximate Bursting Press. ure in lbs. Per Square Inch. | DIAMETER IN INCHES | GALVANIZED | | | |
|----------------|--------|--|--------|-----------------------|--------------------------|---|-----------------------|----------------|--------|--|--------|
| PLAIN END PIPE | | WITH Root Bolted Joints and all Packing | | | | | | PLAIN END PIPE | | WITH A.&R. Flanges and Neces'ry Packing | |
| PRICE | WEIGHT | PRICE | WEIGHT | | | | | PRICE | WEIGHT | PRICE | WEIGHT |
| \$30.20 | 173 | \$35.08 | 210 | 3 | 20 | 1325 | 3 | \$45.00 | 186 | \$55.30 | 220 |
| 37.30 | 231 | 42.18 | 268 | | 18 | 1860 | | 53.10 | 245 | 63.40 | 278 |
| 39.30 | 230 | 46.10 | 281 | 4 | 20 | 1000 | 4 | 59.00 | 247 | 72.30 | 294 |
| 46.40 | 308 | 53.20 | 359 | | 18 | 1390 | | 67.40 | 325 | 80.70 | 372 |
| 45.30 | 285 | 53.30 | 347 | 5 | 20 | 795 | 5 | 70.00 | 307 | 85.30 | 365 |
| 55.45 | 383 | 63.45 | 445 | | 18 | 1100 | | 81.70 | 405 | 97.00 | 463 |
| 63.50 | 437 | 75.10 | 526 | 6 | 18 | 930 | 6 | 93.00 | 460 | 113.35 | 529 |
| 76.70 | 560 | 88.30 | 649 | | 16 | 1220 | | 108.30 | 582 | 128.65 | 651 |
| 70.65 | 507 | 83.45 | 600 | 7 | 18 | 790 | 7 | 104.70 | 532 | 130.20 | 622 |
| 87.85 | 649 | 100.65 | 742 | | 16 | 1060 | | 124.30 | 673 | 149.80 | 763 |
| 81.70 | 577 | 95.30 | 674 | 8 | 18 | 690 | 8 | 120.60 | 605 | 149.20 | 707 |
| 101.95 | 739 | 115.55 | 836 | | 16 | 945 | | 143.50 | 767 | 172.10 | 869 |
| 91.85 | 650 | 107.33 | 760 | 9 | 18 | 620 | 9 | 135.65 | 681 | 171.30 | 814 |
| 118.10 | 832 | 133.58 | 942 | | 16 | 820 | | 164.90 | 865 | 200.55 | 998 |
| 126.10 | 922 | 150.10 | 1112 | 10 | 16 | 740 | 10 | 178.10 | 956 | 217.30 | 1109 |
| 151.50 | 1158 | 175.50 | 1348 | | 14 | 945 | | 207.40 | 1193 | 246.60 | 1346 |
| 131.95 | 1012 | 157.67 | 1219 | 11 | 16 | 670 | 11 | 185.60 | 1054 | 229.60 | 1221 |
| 162.35 | 1282 | 189.07 | 1489 | | 14 | 860 | | 220.30 | 1314 | 264.30 | 1481 |
| 158.05 | 1108 | 184.73 | 1320 | 12 | 16 | 615 | 12 | 218.60 | 1154 | 264.80 | 1332 |
| 193.50 | 1393 | 220.18 | 1605 | | 14 | 790 | | 258.80 | 1438 | 305.00 | 1616 |
| 204.65 | 1533 | 235.93 | 1773 | 13 | 14 | 730 | 13 | 276.90 | 1587 | 337.00 | 1789 |
| 265.35 | 1980 | 296.63 | 2220 | | 12 | 950 | | 345.00 | 2032 | 405.10 | 2234 |
| 225.85 | 1660 | 260.53 | 1926 | 14 | 14 | 675 | 14 | 299.50 | 1709 | 365.60 | 1933 |
| 291.55 | 2144 | 326.23 | 2410 | | 12 | 890 | | 371.50 | 2192 | 437.60 | 2416 |
| 241.95 | 1780 | 283.71 | 2104 | 15 | 14 | 630 | 15 | 322.90 | 1843 | 400.25 | 2109 |
| 317.75 | 2298 | 359.21 | 2622 | | 12 | 825 | | 407.30 | 2360 | 484.65 | 2526 |
| 258.05 | 1910 | 308.21 | 2288 | 16 | 14 | 590 | 16 | 348.60 | 1979 | 442.20 | 2347 |
| 333.95 | 2467 | 384.11 | 2845 | | 12 | 770 | | 433.60 | 2535 | 527.20 | 2903 |
| 295.30 | 2130 | 348.74 | 2550 | 18 | 14 | 525 | 18 | 395.90 | 2205 | 505.60 | 2643 |
| 381.25 | 2750 | 434.69 | 3170 | | 12 | 690 | | 492.30 | 2825 | 602.00 | 3263 |
| 332.55 | 2355 | 386.23 | 2785 | 20 | 14 | 470 | 20 | 443.70 | 2436 | 564.75 | 2917 |
| 423.60 | 3038 | 477.28 | 3468 | | 12 | 620 | | 546.20 | 3119 | 667.25 | 3600 |
| 460.25 | 3327 | 520.09 | 3767 | 22 | 12 | 565 | 22 | 590.00 | 3428 | 759.70 | 4185 |
| 551.30 | 4047 | 611.14 | 4487 | | 10 | 695 | | 693.30 | 4148 | 863.00 | 4905 |
| 502.54 | 3630 | 570.54 | 4110 | 24 | 12 | 515 | 24 | 640.90 | 3734 | 820.10 | 4542 |
| 597.84 | 4425 | 665.84 | 4905 | | 10 | 635 | | 750.50 | 4530 | 929.80 | 5338 |
| 534.75 | 3785 | 610.75 | 4317 | 26 | 12 | 475 | 26 | 705.00 | 3891 | 1008.30 | 5366 |
| 646.00 | 4617 | 722.00 | 5149 | | 10 | 580 | | 820.50 | 4713 | 1123.80 | 6188 |
| 693.50 | 4965 | 777.50 | 5549 | 28 | 10 | 545 | 28 | 873.70 | 5061 | 1222.00 | 6786 |
| 745.80 | 5325 | 837.40 | 5965 | | 10 | 510 | | 948.80 | 5450 | 1325.30 | 7275 |
| | | | | 30 | | | 30 | | | | |

When asking for estimates on piping, always specify quantity in feet or equivalent, diameter in inches or equivalent, material to be conveyed, maximum working pressure, and whether pump or gravity, local conditions of soil, extreme temperature, etc. Crimped ends and sleeve joints are furnished at a nominal extra cost.

ABENDROTH & ROOT MANUFACTURING CO.

MAIN OFFICE AND WORKS - NEWBURGH, N. Y.

BRANCHES:

New York

Chicago

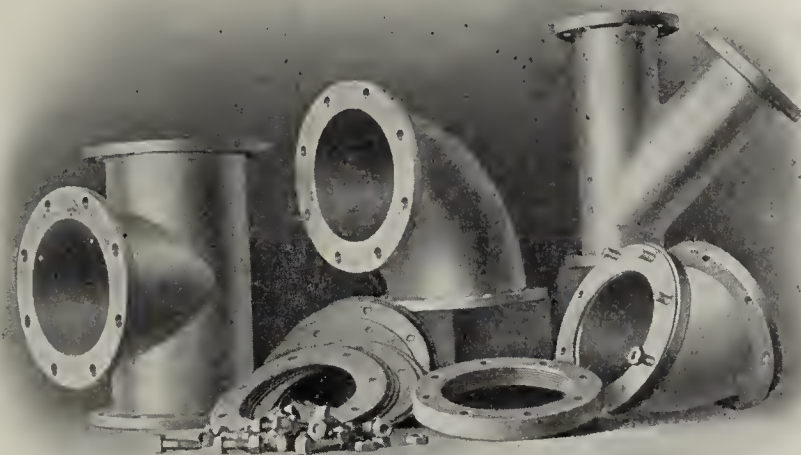
Pittsburg

Mexico City

ABENDROTH & ROOT MFG. CO.

Standard Cast-Iron Flanged Fittings

Are lighter in weight than those obtainable elsewhere, and are particularly suited for use with Root Spiral Riveted Pipe for water pressures up to 150 lbs.



| BLACK | | | | | | | | GALVANIZED | | | | | | | |
|-----------------------|---------------|---------------|--------|---------------------------|---------|---------------|----------------|-----------------------|---------------|---------------|--------|---------------------------|---------|---------------|----------------|
| DIAMETER IN INCHES | 90° ELBOWS | 45° ELBOWS | TEES | CROSSES AND Y-BRANCHES | FLANGES | | DISCS BLANK | DIAMETER IN INCHES | 90° ELBOWS | 45° ELBOWS | TEES | CROSSES AND Y-BRANCHES | FLANGES | | DISCS BLANK |
| | | | | | Loose | At- tached | | | | | | | Loose | At- tached | |
| 3 | 1.95 | 1.95 | 2.75 | 4.70 | .45 | .78 | .45 | 3 | 2.25 | 2.20 | 3.21 | 5.46 | .54 | .87 | .57 |
| 4 | 2.35 | 2.35 | 3.45 | 5.80 | .61 | .94 | .61 | 4 | 2.80 | 2.75 | 4.10 | 6.81 | .73 | 1.06 | .76 |
| 5 | 3.15 | 3.15 | 4.85 | 7.50 | .76 | 1.10 | .76 | 5 | 3.75 | 3.65 | 5.37 | 8.60 | .91 | 1.25 | .95 |
| 6 | 4.30 | 4.30 | 6.10 | 8.90 | .91 | 1.52 | 1.12 | 6 | 5.05 | 4.90 | 7.20 | 10.30 | 1.10 | 1.71 | 1.43 |
| 7 | 5.45 | 5.45 | 7.80 | 12.10 | 1.03 | 1.95 | 1.50 | 7 | 6.45 | 6.20 | 9.25 | 13.95 | 1.28 | 2.20 | 1.87 |
| 8 | 7.05 | 7.05 | 10.30 | 15.30 | 1.17 | 2.21 | 1.75 | 8 | 8.50 | 8.15 | 12.20 | 18.05 | 1.45 | 2.50 | 2.18 |
| 9 | 9.45 | 9.45 | 13.70 | 18.80 | 1.55 | 2.78 | 2.25 | 9 | 11.30 | 10.90 | 16.40 | 22.50 | 1.92 | 3.15 | 2.80 |
| 10 | 10.65 | 10.65 | 16.40 | 22.70 | 1.80 | 3.05 | 2.53 | 10 | 12.85 | 12.40 | 19.80 | 26.85 | 2.23 | 3.50 | 3.11 |
| 11 | 13.75 | 13.75 | 20.30 | 28.10 | 1.93 | 3.37 | 3.13 | 11 | 16.35 | 15.90 | 24.30 | 33.30 | 2.41 | 4.00 | 3.89 |
| 12 | 15.75 | 14.20 | 22.70 | 32.80 | 2.07 | 3.52 | 3.75 | 12 | 18.70 | 16.75 | 27.20 | 39.40 | 2.56 | 4.50 | 4.64 |
| 13 | 20.00 | 15.00 | 26.60 | 39.10 | 2.33 | 3.86 | 4.38 | 13 | 24.12 | 17.80 | 32.40 | 47.00 | 2.88 | 5.40 | 5.39 |
| 14 | 22.00 | 17.60 | 31.30 | 46.10 | 2.59 | 4.15 | 5.25 | 14 | 27.65 | 20.80 | 38.80 | 58.35 | 3.20 | 5.85 | 6.40 |
| 15 | 25.80 | 20.70 | 37.50 | 56.30 | 3.11 | 4.97 | 5.75 | 15 | 31.65 | 24.55 | 46.65 | 70.65 | 3.84 | 6.94 | 7.55 |
| 16 | 31.30 | 25.20 | 47.00 | 68.80 | 4.14 | 6.02 | 6.50 | 16 | 39.40 | 29.35 | 58.35 | 85.80 | 5.18 | 8.46 | 8.70 |
| 18 | 40.70 | 32.70 | 70.40 | 79.80 | 4.75 | 6.92 | 8.75 | 18 | 50.15 | 39.60 | 84.15 | 100.50 | 5.94 | 9.57 | 11.30 |
| 20 | 51.60 | 41.60 | 90.70 | 106.35 | 5.24 | 7.74 | 11.25 | 20 | 65.30 | 50.00 | 111.30 | 133.70 | 6.55 | 10.60 | 14.15 |
| 22 | 68.80 | 55.50 | 98.50 | 131.40 | 8.53 | 11.34 | 13.75 | 22 | 87.10 | 67.40 | 126.00 | 168.00 | 10.67 | 15.40 | 18.30 |
| 24 | 84.50 | 68.00 | 142.90 | 154.80 | 9.14 | 12.26 | 16.25 | 24 | 108.30 | 83.25 | 178.60 | 202.40 | 11.43 | 16.70 | 21.75 |

132 PAGE HYDRAULIC HANDBOOK No. 39 SENT POSTPAID ON REQUEST

ABENDROTH & ROOT MANUFACTURING CO.

MAIN OFFICE AND WORKS, - NEWBURGH, N. Y.

BRANCHES:

New York

Chicago

Pittsburg

Mexico City

Strong Testimony for Root Spiral Riveted Pipe

453 THIRD STREET, BROOKLYN, N. Y., Feb. 10th, 1906.

ABENDROTH & ROOT MFG. CO., NEWBURGH, N. Y.

GENTLEMEN—In connection with my recent inquiry for spiral piping you will probably remember me as having installed the pipe line at Tegucigalpa, Honduras, in company with G. W. Gibson now of Denver, under the firm name of Gibson & Cole.

This line is over twelve miles in length, and the height of head above the city over two thousand feet. In one place the pipe, 8 in. in diameter and of No. 18 gauge, is, I think, under a head of 800 feet where the pipe crosses a valley.

No part of the pipe ever showed any signs of weakness through poor material or workmanship.

All the joints were made with your patented joint, the interior sleeve with the two rubber bands and the glands held by through bolts. (The Root Bolted Joint.)

The pipe in shipment from New York was subjected to very rough treatment, being re-shipped so many times going across the Isthmus of Panama, then on steamer again up the coast to Amapala, then by barges to the main land, and then by carts some ninety miles to Tegucigalpa. Exposed to the hot sun and the loading and unloading, the asphalt covering was scraped and torn off; this we had no means of replacing, but laid it just as it came. Also the line is laid in many places above the ground for half a mile or so, uncovered. It never freezes there, you know.

The other day I was talking with my partner, Gibson, about this pipe line, and he tells me only a month ago he saw a man direct from Tegucigalpa who told him the line was in perfect condition and delivering water as well as when first laid fifteen years ago.

The only damage the pipe has ever sustained was during one or two of those periodical revolutions, when one or other of the revolutionary parties broke the line and so cut the water off from the city; but a length or two of new pipe made the whole as good as new.

I would especially commend the joint you furnished for tightness, ease in putting together and above all its flexibility, as we could frequently put together lengths of a hundred feet or more on the edge of the ditch and then lower it into place or bend it around rocks or obstructions with no damage to the joint when made up, making quite a saving in excavating and not requiring the bottom of the ditch to be carefully leveled.

From practical experience I can most assuredly recommend your Spiral Riveted Pipe for durability under rather trying conditions, and shall be pleased to give you any further information in my power, should you so desire.

Yours truly,

H. W. N. COLE, M. E.

Root Spiral Riveted Pipe is not a makeshift, nor is its popularity due alone to low first cost. Hundreds of pulp mills and municipal water works in this country and abroad contain installations which, after twenty to thirty years' of service, are still in a perfect state of preservation.

132 Page Hydraulic Handbook No. 39 sent postpaid on request.

ABENDROTH & ROOT MFG. CO.

Main Office and Works, NEWBURGH, N. Y.

BRANCHES:

NEW YORK

CHICAGO

PITTSBURG

MEXICO CITY

Lacy Mfg. Co., Los Angeles, Cal.
 Leetonia Boiler Co., Leetonia, O.
 Leffel, Jas. & Co. (Inc.), Springfield, O.
 McAleenan Boiler Co., Peoria, Ill.
 McNeil, Jas. & Bro. Co., Pittsburg, Pa.
 Meehan Boiler & Construction Co., Lowellville, Ohio

MINNEAPOLIS STEEL & MACHINERY Co., Minneapolis, Minn. (See adv. index & branch offices, end of book)

Pelton Water Wheel Co., 19th & Harrison, San Francisco, Cal., & 90 West, New York

PETROLEUM IRON WORKS CO., Washington, Pa., & Farmers' Bank bldg, Pittsburg, Pa. (See adv. index, end of book)
 Phoenix Iron Works, Portland, Ore.
 Pollock, Wm. B. Co. (Hydraulic Riveter), Youngstown, O.

Power & Mining Machinery Co., 52 William, New York. Works, Cudahy, Wis.

REEVES BROS. CO., Alliance, O. (See adv. index, end of book)

Riter-Conley Mfg. Co., 55 Water, Pittsburg, Pa., & 111 B'way, New York

San Francisco Bridge Co., San Francisco, Cal. & 4 Park Row, N. Y.

SCAIFE, WM. B. & SONS CO., 221 1st av, Pittsburg, Pa. (See adv. index, end of book)

Schaw, Ingram, Batcher & Co., 219 J, Sacramento, Cal.

Smith, Francis & Co., 83 Fremont, San Francisco, Cal.

Springfield Boiler & Mfg. Co., Springfield, Ill., Struthers-Wells Co., Warren, Pa.

Thomson & Boyle Co., Los Angeles, Cal.
 Trump Mfg. Co., Springfield, O.

Union Iron Works, 222 Market, San Francisco, Cal.

Union Iron Works, Spokane, Wash.
 Warren City Boiler Works, Warren, O.

Weigle Riveted Steel Pipe Works, Larimer & 30th, Denver, Colo.

Pipe (Seamless Rolled Steel)

PITTSBURG VALVE, FOUNDRY & CONSTRUCTION CO., 26th & A. V. Ry., Pittsburg, Pa. (See adv. index, end of book)

Seamless Tube Co. of America, Frick bldg, Pittsburg, Pa.

Pipe (Spiral Lock Seam)

Lamb & Ritchie Co., Cambridge, Mass.

*Pipe (Spiral Rivited)

ABENDROTH & ROOT MFG. CO. (for Pressures up to 300 lbs.), Newburgh, N. Y. (See adv. index & branch offices, end of book)

AMERICAN SPIRAL PIPE WORKS ("Taylor's" Steel), W. 14th & 48th av., Chicago, Ill., & 39 Cortlandt, New York. (See adv. below)

MERCHANT & EVANS CO. (Inc.), 517 Arch, Phila., Pa. (See adv. index, & branch offices, end of book)

PITTSBURG VALVE, FOUNDRY & CONSTRUCTION CO., 26th & A. V. Ry., Pittsburg, Pa. (See adv. index, end of book)

*Pipe Stands (Portable)

ARMSTRONG MFG. CO., Bridgeport, Conn., & 139 Centre, New York. (See adv. index, end of book)

Pipe (Steel)

(See Pipe & Tube Mills.)

Pipe Stocks & Dies

(See Stocks & Dies)

Pipe Straps

(See Straps, Pipe.)

Pipe Thawing Apparatus

French, S. K., Brooklyn, Mich.

Pipe Threading Machines

(See Machines, Pipe Cutting & Threading.)

Pipe Tongs

(See Tongs, Pipe)

Pipe (Tuyere)

Albright, Son & Co., Allentown, Pa.
HARTMAN CO. (Etc., for Blast Furnace), 1231 N. Front, Phila., Pa. (See adv. index, end of book)

Pipe Vises

(See Vises, Pipe, etc.)

Pipe (Vitreous Enameled Steel)

Enameled Pipe & Engineering Co. (Acid Proof & Fittings), Cleveland, O.

Pipe (Welded Iron & Steel)

Harrisburg Pipe & Pipe Bending Co., Harrisburg, Pa.

Pipe Welding

Rempe Co. (by Electricity), N Sacramento & Carroll avs, Chicago, Ill.

Pipe (Wood)

American District Steam Co., Lockport, N. Y.
 Compton & Bogart, Wenatchee, Wash.

Excelsior Wooden Pipe Co. (Wooden Stave Pipe), San Francisco, Cal.

Michigan Pipe Co. (Improved Wyckoff), Bay City, Mich.

Holmes & Allen Pipe & Construction Co. (Wood Stove Pipe), Denver, Colo.

National Wood Pipe Co. ("Woodward"), 301 Market, San Francisco, Cal.

Puget Sound Pipe Co., Olympia, Wash'n.

Soderberg, J. A. & Co., Seattle, Wash'n

STEARNS, A. T. LUMBER CO., Neponset, Boston, Mass. (See adv. index, end of book)

Wyckoff A. & Son (Acid Proof), Elmira, N. Y.
 Woods, G. R. Sons, Sheffield, Pa.

Pipe (Wood Fibre)

Fibre Conduit Co., Orangeburg, N. Y.

Pipe (Wrought Iron)

(See Pipe & Tube Mills.)
 (Also Tubing, Seamless Steel, etc.)

Pipe (Wrought Iron, Cement Lined)

American Pipe Mfg. Co. (Phipp's Patent), 114 N Broad, Phila., Pa.

Pipe (Wrought Steel)

(See Pipe & Tube Mills)

*Pipe & Bends (Copper)

(See also Copper Coils.)

SCAIFE, WM. B. & SONS CO., 221 1st av, Pittsburg, Pa. (See adv. index, end of book)

Pipe & Boiler Covering Mfrs.

(See Sub-classifications following.)

(For Jobbers in these Goods, see Mill & Factory Supplies; also Steam Fitters' Supplies Jobbers)

Ainsworth Covering Co. (Asbestos), Wilmington, Del.

Alliance Asbestos Mfg. Co. (Asbestos), Alliance, O.

American Asbestos Co., Minneapolis, Minn.

American Insulating Material Mfg. Co. (Granite Rock Wool), Alexandria, Ind.

Barrett Mfg. Co., Land Title bldg, Philadelphia, Pa.

Bonsall & Son, 362 Northland av, Buffalo, N. Y.

Bowen & Martin, 112 S 2d, Phila., Pa.

Boyd, Jas. & Bro., 14 N 4th, Phila., Pa.

Brunett, Frank O. (Asbestos), 396 Smith, Brooklyn, N. Y.

Carey, Philip Mfg. Co. (Asbestos & Magnesia), Lockland, O.

Chicago Fireproof Covering Co., 18 N Canal, Chicago, Ill.

Conkling, S. P., 20 Atwater, E., Detroit, Mich.

Covering & Supply Co. (Magnesia-Asbestos), 401 Greenwich, New York

EHRET MAGNESIA MFG. CO., Land Title bldg, Phila., Pa. (See adv. index & branch offices, end of book)

Fossil Meal Co., 2 Cedar, N. Y.

Franklin Mfg. Co. (Asbestos), Franklin, Pa.

Gilmour R. M. Mfg. Co., 105 John, New York

Hardy & Tierney (Asbestos & Hair Felt), 410 E 23d, N. Y.

Houghton, E. F. & Co. ("Virtue" Sectional Asbestos), 240 Somerset, Phila., Pa.

Johns, H. W.-Manville Co., 100 William, New York

Keasbey, Robert A., 100 N Moore, N. Y.

Keasbey & Mattison Co. (Main Office & Works, Ambler, Pa.), 100 Johns, New York

Keystone Asbestos-Magnesia Co., Fulton bldg, Pittsburg, Pa.

Kramig, R. E. & Co. (Asbestos), 234 E 6th, Cincinnati, O.



TAYLOR'S SPIRAL RIVETED PIPE is unequalled for high pressure hydraulic work, exhaust steam, compressed air, etc. ¶ It is extensively used in hydro-electric plants for pressures up to 400 lbs. per square inch. ¶ We can give you the best pipe and save you money.

AMERICAN SPIRAL PIPE WORKS

Eastern Office, 39 Cortlandt St., NEW YORK, N. Y.

Main Office and Works, CHICAGO

Lysle, R. Willis, 1420 Callowhill, Phila., Pa.
 McConnell & Co. (Dealers), Columbia Bank bldg.
 Pittsburgh, Pa.
 McDearmon & Co., 422 Sacramento, San Francisco, Cal.
 Magnesia Covering Co., North American bldg.
 Philadelphia, Pa.
 Manville Covering Co., 283 Pitman, Providence, R. I.
 Midland Asbestos Co., Kansas City, Mo.
 National Air Cell Covering Co. (Air Cell & Wool Felt), 200 Van Brunt, Brooklyn, N. Y.
 New Jersey Asbestos Co., Camden, N. J.
 New York Asbestos Mfg. Co. (Asbestos & Magnesia), 80 John, New York
 Nightingale & Childs Co., 310 Congress, Boston, Mass.
 Nonpareil Cork Works (Cork), 105 Hudson, New York
 Norristown Magnesia & Asbestos Co. (Asbestos, etc.), Norristown, Pa.
 Nott, W. S. Co., 200 S 1st av, Minneapolis, Minn.
 Oil City Asbestos Co., Oil City, Pa.
 Quiulau, Jas. & Co., 120 Liberty, N. Y.
 Racich, Jacob, 525 W 54th, New York
 Sall Mountain Asbestos Mfg. Co., 68 S Canal, Chicago, Ill.
 Selph, Jno. A. (Asbestos Magnesia), Richmond, Va.
 Smith, Thos. F., 20 Cedar, New York
 Springfield Asbestos Co., Springfield, Mass.
 Standard Pipe Covering Co., 3748 E 71st, Cleveland, O.
 Sullivan, Peter, Jr., 80 John, New York
 Trainer, C. W. Mfg. Co., 89 Pearl, Boston, Mass.
 Turner, Chas. A. ("Dolomite," Sectional, Plastic, Dry & Hot Blast, Cement Felting), 14 Market, Pittsburgh, Pa.
 Union Fibre Co. (Lith.), Winona, Minn., & 143 Reed, Milwaukee, Wis.
UNITED STATES MINERAL WOOL
 Co. (Mineral Wool), 140 Cedar, New York
 See adv. index, end of book
 Vallean, T. M. & Co., 192 West, New York
WATSON, H. F. MFG. CO. (Asbestos), Erie, Pa. (See adv. index & branch offices, end of book)

Pipe & Boiler Coverings (Air Cell)

Keasbey & Mattison Co. (Wool, Felt, etc.), Ambler, Pa.

Pipe & Boiler Coverings (Asbestos)

Alliance Asbestos Mfg. Co. (Rope & Wick), Alliance, O.
 Asbestos Felting Works, 79 Maiden lane, N. Y.
 American Asbestos Co., Minneapolis, Minn.
 Brunett, Frank O., 396 Smith, Brooklyn, N. Y.
 Carey, Philip Mfg. Co., Lockland, O.
 Chicago Asbestos Mfg. Co., 78 W 22d pl, Chicago, Ill.
 Chicago Fire Proofing Covering Co., 18 N Canal, Chicago, Ill.
 Covering & Supply Co., 401 Greenwich, New York
EHRET MAGNESIA MFG. CO., Land
 Title bldg, Phila., Pa. (See adv. index & branch offices, end of book)
 Franklin Mfg. Co., Franklin, Pa.
 Gilmour, R. M. Mfg. Co., 105 John, New York
 Hardy & Tierney, 410 E 23d, New York city
 Houghton, E. F. & Co. ("Virtue"), 240 Somerset, Phila., Pa.
 Johns, H. W.-Manville Co., 100 William, New York
 Keasbey & Mattison Co. (Moulded), Main Office & Works, Ambler, Pa.
 Kramig, R. E. & Co., 234 E 6th, Cincinnati, O.
 Keystone Asbestos-Magnesia Co., Fulton bldg, Pittsburgh, Pa.
 McConnell & Co. (Dealers), Columbia Bank bldg, Pittsburgh, Pa.
 New Jersey Asbestos Mfg. Co., Camden, N. J.
 New York Asbestos Mfg. Co. (Air Cell & Moulded), 80 John, New York
 Norristown Magnesia & Asbestos Co., Norristown, Pa.
 Oil City Asbestos Co., Oil City, Pa.
 Sall Mountain Asbestos Mfg. Co., 68 S Canal, Chicago, Ill.
 Springfield Asbestos Co., Springfield, Mass.
 Standard Pipe Covering Co., 3748 E 71st, Cleveland, O.
 Star Asbestos Mfg. Co., North Wales, Pa.
 Trainer, C. W. Mfg. Co., 89 Pearl, Boston, Mass.
 Union Fibre Co., Winona, Minn., & 143 Reed, Milwaukee, Wis.
WATSON, H. F. CO. ("Imperial"), Erie, Pa. (See adv. index & branch offices, end of book)

Pipe & Boiler Coverings (Cement)

Chicago Fire Proof Covering Co., 18 N Canal, Chicago, Ill.
EHRET MAGNESIA MFG. CO., Land
 Title bldg, Phila., Pa. (See adv. index & branch offices, end of book)
 Gilmour, R. M. Mfg. Co., 105 John, New York
 Johns, H. W.-Manville Co., 100 William, New York
 Keasbey, Robert A., 100 N Moore, N. Y.
 Smith, Thos. F., 20 Cedar, New York
WATSON, H. F. CO., Erie, Pa. (See adv. index & branch offices, end of book)

Pipe & Boiler Coverings (Cork)

Armstrong Cork Co., 23d & River, Pittsburgh, Pa.
 Bruening Cork Co., Oakdale, Pa.
 Nonpareil Cork Works, 105 Hudson, New York

Pipe & Boiler Coverings (Felt)

Carey, Philip Mfg. Co., Lockland, O.
 Chicago Fire Proof Covering Co., 18 N Canal, Chicago, Ill.
EHRET MAGNESIA MFG. CO., Land
 Title bldg, Phila., Pa. (See adv. index & branch offices, end of book)
 Johns, H. W.-Manville Co., 100 William, New York
 Keasbey, Robert A. Co., 100 N Moore, New York
 National Air Cell Covering Co. (Wood Felt), 200 Van Brunt, Brooklyn, N. Y.
 Smith, Thos. F., 20 Cedar, New York
WATSON, H. F. CO., Erie, Pa. (See adv. index & branch offices, end of book)

Pipe & Boiler Coverings (Fossil Meal)

Fossil Meal Co. (A. Giesse), 2 Cedar, New York
 Smith, Thos. F., 20 Cedar, New York

Pipe & Boiler Coverings (Magnesia)

Carey, Philip Mfg. Co., Lockland, O.
 Covering & Supply Co., 401 Greenwich, New York
EHRET MAGNESIA MFG. CO., Land
 Title bldg, Phila., Pa. (See adv. index & branch offices, end of book)
 Franklin Mfg. Co. ("K. M."), Franklin, Pa.
 Hardy & Tierney, 410 E 23d, New York City
 Johns, H. W.-Manville Co., 100 William, New York
 Keasbey & Mattison Co. (Sectional), Main Office & Works, Ambler, Pa.
 Kramig, R. E. & Co., 234 E 6th, Cincinnati, O.
 Keystone Asbestos-Magnesia Co., Fulton bldg, Pittsburgh, Pa.
 McConnell & Co. (Dealers), Columbia Bank bldg, Norristown, Pa.
 Norristown Magnesia & Asbestos Co., Norristown, Pa.

Pipe & Boiler Coverings (Mineral Wool)

American Insulating Material Mfg. Co., Alexandria, Ind.
 Columbia Mineral Wool Co., 112 Clark, Chicago, Ill.
 Works, So. Milwaukee, Wis.
 Union Fibre Co., Winona, Minn.
UNITED STATES MINERAL WOOL
 Co. (Mineral Wool), 140 Cedar, New York.
 (See adv. index, end of book)

Pipe & Fittings (Wrought Iron) Dealers

(See Steam Fitters' Supplies.)

Pipe & Tube Mills

Aermotor Co. (Wrought Iron Pipe, Capacity 175 Tons), Chicago, Ill.
 Albright, Son & Co. (Tuyere Pipe), Allentown, Pa.
 Byers, A. M. & Co., Pittsburgh, Pa.
 Coatesville Rolling Mill Co. (Boiler Tubes), Coatesville, Pa.
 Cohoes Rolling Mill Co. (Wrought Iron Pipe), Cohoes, N. Y.

Harrishurg Pipe & Pipe Bending Co. (Wrought Iron & Steel Pipe), Harrishurg, Pa.
 La Belle Iron Works (Black & Galvanized Steam, Gas & Water Pipe, Oil & Gas Line Pipe, Casing, Tubing & Drive Pipe, Lap Welded Boiler Tubes), Steubenville, O.
 Longmead Iron Co. (Black & Galvanized Pipe), Conshohocken, Pa.
 Mark Mfg. Co. (Wrought Iron & Steel Pipe, 1-8 to 16 inches, Boiler Tuhing, Casing, Line & Drive Pipe), Evanston, Ill. Mills: Zanesville, O.
 Monongahela Tuhe Co. (Iron & Steel Boiler Tubes), Ferguson blk., Pittsburgh, Pa.
 Works, Wilson, Pa.
 National Tube Co. (Pipe & Tubes), Frick bldg, Pittsburgh, Pa.
 Pittsburgh Seamless Tube Co. (Seamless Steel Boiler Tubes), Beaver Falls, Pa.
 Pittsburgh Tuhe Co., 326 4th av, Pittsburgh, Pa.
 Reading Iron Co. (Pipe & Tubes), Reading, Pa.
 Reliance Tube Co. (Lapweld Steel & Charcoal Iron Boiler Tubes, Locomotive Tubing, Line Pipe, Casing, etc.), Brackenridge, Pa. & 421 Wood, Pittsburgh, Pa.
 Shelby Steel Tuhe Co. (Seamless Steel Tubing), Frick hldg, Pittsburgh, Pa.
 South Chester Tuhe Co. (Pipe), Chester, Pa.
 Spang, Chalfant & Co., Inc. (Pipe & Tubes), 307 4th av, Pittsburgh, Pa.
 Susquehanna Iron & Steel Co. (Wrought Iron Pipe Only), Columbia, Pa.
 Tyler Tube & Pipe Co. (Knobbed Charcoal Iron & Algerite Iron Boiler Tubes), Washington, Pa.
 Western Tube Co. (Iron & Steel Pipe & Tubes), Kewanee, Ill.
 Wheeling Steel & Iron Co. (Wrought Iron & Steel Pipe, Capacity 400 Tons), Wheeling, W. Va.
 Worth Bros. Co. (Charcoal Iron Knobbed Lapwelded Boiler Tubes), Coatesville, Pa.
 Youngstown Sheet & Tube Co. (Iron & Steel Pipe & Boiler Tubes, from 5-8 to 8-inch), Youngstown, O.

Pipes (Blow)

(See Blow Pipes & Brazing Apparatus.)

Pipes (Flush & Supply)

Diamond Mfg. Co., Detroit, Mich.
 Edwardsville Brass Co., Edwardsville, Ill.
 Haines, Jones & Cadbury, 1136 Ridge av., Phila., Pa.
 Milwaukee Brass Mfg. Co. (Bath & Basin Cock Snpply Pipes, etc.), Milwaukee, Wis.
 Mullaney's, Jas. Son, 25th & Lex av, N. Y.
 Salem Brass & Iron Mfg. Co., Salem, N. J.
 Sanitary Co., 7 Water, Cleveland, O.
 Scully, W. J. & Co., Detroit, Mich.
 Wise, J. B., Watertown, N. Y.

Piping (High Pressure)

Anderson, Darragh Co., 3206 Penn av, Pittsburgh, Pa.
 Barker, H. R. Mfg. Co. (High Pressure), Lowell, Mass.
 Best Mfg. Co., 25th & A. V. Ry., Pittsburgh, Pa.
 Bowers, W. A. Heating Co., 482 Market, Milwaukee, Wis.
 Boyd Equipment Co., 90 West, New York
 Braman, Dow & Co., 239 Causeway, Boston, Mass.
 Burlingame, A. Co., Worcester, Mass.
 Connell, J. D. Iron Works Co., New Orleans, La.
 Crane Co. (Est. 1855) (Steam), 519 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
 Kroeschell Bros. Co., 55 Erie, Chicago, Ill.
 Faith, S. & Co., 2427 Penna av, Phila., Pa.
 Merrill Co., 19 Pearl, Boston, Mass.
 Miller, W. H. Co., Columbus, O.
 Mitchell, W. K., Betz hldg, Phila., Pa.
 Philadelphia Pipe Bending Works, 4120 N 5th, Phila., Pa.
 Pittsburgh Piping & Equipment Co., 34th & Smallman, Pittsburgh, Pa.
PITTSBURG VALVE, FOUNDRY & CONSTRUCTION CO., 26th & A. V. Ry., Pittsburgh, Pa. (See adv. index, end of book)
 Shaw, Benj. F. Co., Wilmington, Del.
 Tullis & Co., 534 W 22d, New York
 Washburn & Garfield Mfg. Co., Worcester, Mass.
 York Engineering Co. (Inc.) (For Steam, Hydraulic & Electric Plants, etc., District Steam & Underground Piping & Specialty), York, Pa.

Pitch (Asphalt)

Alcatraz Co., 124 Sansome, San Francisco, Cal.
 American Asphaltum & Rubber Co., Women's Temple, Chicago, Ill.
 Barber Asphalt Paving Co., Land Title bldg, Phila., Pa.
 Carey, Philip Mfg. Co., Lockland, O.
 Densmore-Stabler Refining Co., Los Angeles, Cal.
 Dunderberg Asphalt Co., 6 Fletcher, New York
 Globe Asphalt Co., Bakewell bldg, Pittsburg, Pa., & Los Angeles, Cal.
 Hercules Oil Refining Co., Los Angeles, Cal.
 Indian Refining Co., Georgetown, Ky.
 Jewett-Blodgett Oil Co., Bakersfield, Cal.
 Southern Refining Co., Los Angeles, Cal.
 Union Oil Co. of Cal., Mills bldg, San Francisco, Cal.

Pitch (Paving & Roofing)

(See also Coal Tar Products.)

American Asphaltum & Rubber Co., Women's Temple, Chicago, Ill.
 Amitage Mfg. Co., 3200 Williamsburg av, Richmond, Va.
 Barber Asphalt Paving Co., Land Title bldg, Phila., Pa.
 Barrett Mfg. Co., Land Title bldg, Phila., Pa.
 Buchanan-Foster Co., Drexel bldg, Phila., Pa.
CABOT, SAMUEL, 141 Milk, Boston, Mass., & 28 Dearborn av, Chicago, Ill. (See adv. index & branch offices, end of book)
 Carey, Philip Mfg. Co. (Asbestos Roofing), Lockland, O.
 Chapman & Soden (Jobbers), 410 Atlantic av, Boston, Mass.
 Chatfield & Woods Co. (Mfrs.), 347 W 4th, Cincinnati, O.
 Coal Tar Product Co., 71 Commerce, Brooklyn, N. Y.
 Crescent Compound Mfg. Co. ("Crescent"), Ellwood City, Pa.
 Ford Mfg. Co., 109 W Washington, Chicago, Ill.
 Lewis Roofing Co., Rock Island, Ill.
 McClintock & Irvine Co., Pittsburg, Pa.
 Martin, W. A. & Co. (Pine), Wilmington, N. C.
 Nashville Chemical Co., 319 N Front, Nashville, Tenn.
 National Coal Tar Co., 100 William, New York
 Schoellkopf, Hartford & Hanna Co., Buffalo, N. Y., & 100 William, New York
 Sillman & Godfrey Co., Bridgeport, Conn.
 Southern Roofing Co., Atlanta, Ga.
 Trinidad Asphalt Mfg. Co., 320 S 21st, St. Louis, Mo.

Pitch (Rubberized)

Standard Rubberized Pitch Co. ("Standard" Waterproof), Clinton bldg, Newark, N. J.

Planers (Bench)

Bartlett, E. E. ("Federal"), 326 A, Boston, Mass.
 Ideal Machine Works ("Ideal" Hand), 255 39th, Brooklyn, N. Y.

Planers (Buzz)

(See also Planers, Wood.)

American Wood Working Machinery Co., Rochester, N. Y., & West Street bldg, New York
 Baker Bros., Toledo, O.
 Berlin Machine Works, Beloit, Wis., & 149 B'way, New York
 Carey, W. W., Lowell, Mass.
 Colladay, Jos., 626 Race, Phila., Pa.
 Cordesman Machine Co., 27 Butler, Cincinnati, Ohio
 Crescent Machine Co., Leetonia, O.
 Dennis Machine Co., Jackson, Mich.
 Frank Machinery Co., 214 Terrace, Buffalo, N. Y.
 Hobbs Mfg. Co., Worcester, Mass.
 Holmes, E. & B. Machinery Co., Buffalo, N. Y.
 Moshannon Mfg. Co., Philsburg, Pa.
 Oliver Machinery Co., Grand Rapids, Mich.
 Smith, H. B. Machine Co., Smithville, N. J., & 121 Liberty, New York
 Stowell, J. A. Co., Leominster, Mass.
 Union Iron Works, Bangor, Me.
 United States Machine Co. (Or Hand Jointer), Williamsport, Pa.

Planers (Fluting Feed Rods)

Woodward & Powell Planer Co. (for Textile Machines), Worcester, Mass.

Planers for Steel Foundries

Wetherill, R. & Co., Chester, Pa.

Planers (Frog & Switch)

Fitchburg Machine Works, Fitchburg, Mass.
 Flather, Mark Planer Co., Nashua, N. H.
 Niles-Bement-Pond Co., 111 B'way, New York
 Woodward & Powell Planer Co., Worcester, Mass.

Planers (Gear)

Gleason Works, Rochester, N. Y.

Planers (Hand & Foot Power)

Porter, C. O. & A. D. (Hand), Grand Rapids, Mich.
 Shepard Lathe Co., 129 W 2d, Cincinnati, O.

Planers (Iron & Steel)

(See Planers, Metal Working)

Planers (Locomotive Connecting Rod)

Woodward & Powell Planer Co., Worcester, Mass.

Planers (Metal Working)

American Foundry & Machine Co. (Open Side), Hanover, Pa.
 American Tool Works Co., 6th & Eggleston, Cincinnati, O.
 Betts Machine Co., Wilmington, Del.
 Chandler Planer Co., Ayer, Mass.
 Cincinnati Planer Co. (24-84 inches), 2235-2239 Buck, Cincinnati, O.
CLEVELAND PUNCH & SHEAR Works Co., 1306 E. 40th, Cleveland, O. (See adv. index, end of book)
 Costillo, J. E., 60 Centre, New York
 Fitchburg Machine Works, Fitchburg, Mass.
 Flather, Mark Planer Co. (Heavy, etc.), Nashua, N. H.
 Gleason Works (Gear), Rochester, N. Y.
 Gray, G. A. Co., Gest c Depot, Cincinnati, O.
 Hamilton Machine Tool Co. (24 to 96 inches), Hamilton, O.
 Harrington, Edwin Son & Co., 17th & Callowhill, Phila., Pa.
 Hilles & Jones Co., Wilmington, Del.
 Hodgkins, C. A. Co., Marlboro, N. H.
 Ideal Machine Works ("Ideal" Hand for Iron), 255 39th, Brooklyn, N. Y.
 Lane Tool Co., 1196 Hamilton, Cleveland, O.
MANNING, MAXWELL & MOORE, 85, 87 & 89 Liberty, New York. (See adv. index & branch offices, end of book)
 Morton Mfg. Co. (Portable), Muskegon Heights, Mich.
 New Haven Mfg. Co., New Haven, Conn.
 Niles-Bement-Pond Co., 111 B'way, New York
 Ohio Machine Tool Co., Kenton, O.
 Pittsburg Machine Tool Co., Allegheny, Pa.
 Putnam Machine Co., Fitchburg, Mass.
 Reed, J. B., Cairo, Ill.
 Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Philadelphia, Pa.
TUOHY BROS. Co., 95 Liberty, New York. (See adv. index, end of book)
 Whitcomb-Blaisdell Machine Tool Co., Worcester, Mass.
 Whiting, Baxter D. & Son, Winchendon, Mass.
 Wilson, W. A. Machine Co., c River & Water, Rochester, N. Y.
 Woodward & Powell Planer Co., Worcester, Mass.

Planers (Open Side)

Detrick & Harvey Machine Co., Baltimore, Md
 Niles-Bement-Pond Co., 111 B'way, New York

Planers (Plate)

CLEVELAND PUNCH & SHEAR Works Co., 1306 E. 40th, Cleveland, O. (See adv. index, end of book)
 Hilles & Jones Co., Wilmington, Del.
 Niles-Bement-Pond Co., 111 B'way, New York
 Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Philadelphia, Pa.

Planers (Pony)

(See also Planers, Wood.)

American Sawmill Machinery Co., 114 Liberty, New York, & Hackettstown, N. J.
 American Wood Working Machinery Co., Rochester, N. Y., & West Street bldg, New York
 Connell & Dengler Machine Co., Rochester, N. Y.

Cordesman Machine Co., 27 Butler, Cincinnati, Ohio
 De Loach Mill Mfg. Co., Atlanta, Ga.
 Fay, J. A. & Egan Co., Cincinnati, O.
 Frank Machinery Co., 214 Terrace, Buffalo, N. Y.
 Hobbs Mfg. Co., Worcester, Mass.
 Holmes, E. & B. Machinery Co., Buffalo, N. Y.
LANE MFG. CO., Montpelier, Vt. (See adv. index, end of book)
 Power, L. & Co., 20 S 23d, Phila., Pa.
 Union Iron Works, Bangor, Me.

Planers (Rail)

Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Philadelphia, Pa.

Planers (Rotary)

CLEVELAND PUNCH & SHEAR Works Co., 1306 E. 40th, Cleveland, O. (See adv. index, end of book)
 Cole Mfg. Co. (Rotary Bed), Lakeport, N. H.
 Newton Machine Tool Co. (Inc.), 2343 Vine, Philadelphia, Pa.
 Niles-Bement-Pond Co., 111 B'way, New York
 Quincy-Manchester-Sargent Co. (Boring Bars), Old Colony bldg, Chicago, Ill., & 114 Liberty, New York
 Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Philadelphia, Pa.
 Underwood, H. B. & Co. (Boring Bars), 1023 Hamilton, Phila., Pa.
 Whiting, Geo. Co., 156 W North av, Chicago, Ill.

Planers (Slate)

(See also Machinery, Slate.)

FLORY, S. MFG. CO., Bangor, Pa. (See adv. index, end of book)
 Ruggles Machine Co., Poultney, Vt.

Planers (Stave)

(See Barrel Machinery)

Planers (Stone)

(See also Machinery, Stone Working.)

Birmingham Iron Foundry (Regular Planers with Four Heads, Open Side Planers), Derby, Conn.
 Farrel Foundry & Machine Co., Ansonia, Conn.
 Lincoln Iron Works (Gilmour, etc.), Rutland, Vt.
NEW ALBANY MFG. CO., New Albany, Ind.
 Patch, F. R. Mfg. Co., Rutland, Vt.

Planers (Wood)

American Sawmill Machinery Co., 114 Liberty, New York, & Hackettstown, N. J.
 American Wood Working Machinery Co., Rochester, N. Y., & West Street bldg, New York
 Atlantic Works (Inc.), 2821 Oakford, Phila., Pa.
 Baldwin, Tuthill & Bolton, Grand Rapids, Mich.
 Bentel & Margedant Co., Hamilton, O.
 Berlin Machine Works, Beloit, Wis., & 149 B'way, New York
 Colladay, Jos. O., 653 Race, Philadelphia, Pa.
 Cordesman, Meyer & Co., 55 Central av, Cincinnati, O.
 Cordesman, Rehtin Co., 27 Butler, Cincinnati, O.
 De Loach Mill Mfg. Co., Atlanta, Ga.
 Fay, J. A. & Egan Co., Cincinnati, O.
 Frank Machinery Co., 214 Terrace, Buffalo, N. Y.
 Gerlach, Peter Co. (Single, Double & Four Sided for Chair, Furniture, Box Board, etc.), 1708 Columbus Rd., Cleveland, O.
 Greaves, Klusman & Co., Cook & Alfred, Cincinnati, O.
 Hall & Brown Woodworking Machine Co., St. Louis, Mo.
 Hobbs Mfg. Co., Worcester, Mass.
 Hodgkins, C. & A. Co., Marlboro, N. H.
 Humphrey Machine Co., Keene, N. H.
 Indiana Machine Works Co., Ft. Wayne, Ind.
LANE MFG. CO., Montpelier, Vt. (See adv. index, end of book)
 Lovell, F. S. Machine Works, Fitchburg, Mass.
 Oliver Machinery Co. (Surface), Grand Rapids, Mich.
 Power, L. & Co., 20 S 23d, Philadelphia, Pa.
 Prybil, P., 512 W 41st, New York
 Putnam Machine Co., Fitchburg, Mass.
 Salem Iron Works (Inc.), Winston-Salem, N. C.
 Seymour & Whitlock (or Hand Feed Jointing), Newark, N. J.
 Smith, H. B. Machine Co., Smithville, N. J., & 121 Liberty, New York

STRONG, CARLISLE & HAMMOND
Co., 333-344 Frankfort av., N. W., Cleveland,
O. (See adv. index, end of book)
Trevor Mfg. Co., Lockport, N. Y.
Union Iron Works, Bangor, Me.
White, John A. & Co., Dover, N. H.
Whitney, Baxter D. & Son, Winchendon, Mass.
Woods, S. A. Machine Co., 445 Dorchester,
Boston, Mass.
Yerkes & Finan Wood Working Machine Co., St.
Louis, Mo.

Planers & Matchers

American Sawmill Machinery Co., 114 Liberty,
New York, & Hackettstown, N. J.
American Wood Working Machinery Co., Roches-
ter, N. Y., & West Street bldg., New York
Atlantic Works (Inc.), 2821 Oakford, Phila., Pa.
Bentel & Margedant Co., Hamilton, O.
Berlin Machine Works, Beloit, Wis., & 149
B'way, New York
Cordesman, Rehtin Co., 25 Butler, Cincinnati,
O.
Fay, J. A. & Egan Co., c Front & John, Cin-
cinnati, O.
Greaves, Klusman & Co., c Cook & Alfred,
Cincinnati, O.
Hobbs Mfg. Co., Worcester, Mass.
Holmes, E. & B. Machinery Co., Buffalo, N. Y.
Indiana Machine Works Co., Ft. Wayne, Ind.
Power, L. & Co., 20 S 23d, Phila., Pa.
Putnam Machine Co., Fitchburg, Mass.
Salem Iron Works (Wood), Winston, Salem, N. C.
Smith, H. B. Machine Co., Smithville, N. J., &
121 Liberty, New York
Woods, S. A. Machine Co., 445 Dorchester av.,
Boston, Mass.
Yerkes & Finan, Woodworking Machine Co., St.
Louis, Mo.

Planes

Buck Bros. (Iron), Millbury, Mass.
**Chapin-Stevens Co. (Bench, Ship Moulding &
Grooving),** Pine Meadow, Conn.
Doscher Plane & Tool Co. (Bench, etc.), Sauga-
tuck, Conn.
Gage Tool Co. (Self-Setting), Vineland, N. J.
Mack & Co. ("D. R. Barton"), Rochester,
N. Y.
New England Specialty Co. (Metal), North East-
on, Mass.
Ohio Tool Co. (Iron & Wood), Columbus, O.
Payson Mfg. Co. (Steel), 1319 W. Jackson Boul.,
Chicago, Ill.
**Royal Equipment Co. (Squaring for Carpenters,
Pattern Makers, etc.),** Bridgeport, Conn.
Sandusky Tool Co. (Bench, etc.), Sandusky, O.
Sargent & Co., New Haven Conn., 94 Center,
N. Y.
Smith, Otis A. (Fales Patent Bench), Rockfall,
Conn.
Stanley Rule & Level Co., New Britain, Conn.,
& 107 Chambers, New York
Tower & Lyon Co. (Iron "Towers Perfection"),
95 Chambers, N. Y.
Union Mfg. Co. ("Union," Iron & Wood), New
Britain, Conn.
White, L. & I. J. Co. (Inc.), Buffalo, N. Y.

Planimeters

**ASHCROFT MFG. CO., THE ("Ams-
ler" & "Coffin" Averaging),** 85, 87 & 89 Lib-
erty, New York. Works: Bridgeport, Conn.
(See adv. index, end of book)
Bushnell, Jno. S. Co., 123 Liberty, New York
CROSBY STEAM GAGE & VALVE CO.,
97 Oliver, Boston, Mass., & 16 Dey, New
York. (See adv. index, end of book)
**Lippincott Steam Specialty & Supply Co. ("Lip-
pincott" & "Simplex"),** 52 Columbia, New-
ark, N. J.
Robertson, Jas. L. & Sons ("The Willis"), 204
Fulton, New York
SCHAEFFER & BUDENBERG MFG.
Co. ("Amsler's" Polar), Foxboro, Mass.
(See adv. index & branch offices, end of book)
Star Brass Mfg. Co., 103 E Dedham, Boston,
Mass.
Thompson, Richard & Co., 126 Liberty, N. Y.

Plank Drawer

Pollard, Jos. G. (Steel), 141 Raymond, Brook-
lyn, N. Y.

Planters (Bean & Pea)

Allen, S. L. & Co. (Planet, Jr.), 1017 Market,
Phila., Pa.
Bateman Mfg. Co., Grenloch, N. J.
Caledonia Bean Harvester Co. (Bean), Caledonia,
N. Y.
Deere & Mansur Co., Moline, Ill.
Gale Mfg. Co. (Bean & Pea), Albion, Mich.
Moline Plow Co. ("Boston"), Moline, Ill.

Potato Implement Co. (Hand Bean), Traverse
City, Mich.
White, S. R. & Bro. (Pea), Norfolk, Va.
Wiard Plow Co. (Bean), Batavia, N. Y.

Planters (Beet)

Allen, S. L. & Co., 1017 Market, Phila., Pa.
Bateman Mfg. Co., Grenloch, N. J.
Gale Mfg. Co., Albion, Mich.
Morrison Mfg. Co., Ft. Madison, Ia.
Vine & Root Machinery Co., Port Huron, Mich.

Planters (Corn)

American Seeding Machine Co. Main Office,
Springfield, O.
Ames Plow Co. (One Horse, One Row, etc.),
Quincy Hall, Boston, Mass.
Avery, B. F. & Sons, Louisville, Ky.
Avery Mfg. Co. ("Corn King," "Corn Queen,"
Ayers, J. R., Petersburg, Va. **Steel),** Peoria, Ill.
Bailey & Nicols Co., Delevan, Ill.
Belcher & Taylor Agricultural Tool Co., Chicopee
Falls, Mass.
Bement's, -E. Sons, Lansing, Mich.
Blackstone Mfg. Co., Jamestown, N. Y.
Bradley, David, Mfg. Co. (Force Drop), Bradley,
Ill.
Brooks & Stuckwisch, Indianapolis, Ind.
Brown, Geo. W. & Co., Galesburg, Ill.
Brown, Hinman & Huntington Co. (Hand), 198
N Scioto, Columbus, O.
Buffton Mfg. Co., Buffton, Ind.
Campbell Corn Drill Co., Harrison, O.
Cardwell Machine Co., Richmond, Va.
Case, J. I. Plow Works, Racine, Wis.
Chambers, Bering, Quinlan Co., Decatur, Ill.
Collins Plow Co., Quincy, Ill.
Colton, G. D. & Co., Galesburg, Ill.
Cooper, A. A. Wagon & Buggy Co., Dnbuquerque, Ia.
Deere & Mansur Co., Moline, Ill.
Deuscher, H. P. Co., Hamilton, O.
Donaldson Bros. ("King"), Mt. Clemens, Mich.
Emerson Mfg. Co., Rockford, Ill.
Enreka Mower Co. (One & Two Row), Utica,
N. Y.
Evans, A. C. Mfg. Co., Springfield, O.
**Farquhar, A. B. Co. (Also With Fertilizer At-
tachment),** York, Pa.
Foos Mfg. Co., Springfield, O.
Fuller & Johnson Mfg. Co. (Force Drop), Mad-
ison, Wis.
**Gale Mfg. Co. (One & Two Horse Planter &
Fertilizers, also Riding, also With Disc),**
Albion, Mich.
Grand Detour Plow Co., Dixon, Ill.
Hayes Pump & Planter Co. (Riding & Walking),
Galva, Ill.
Hench & Dromgold Co. (Inc.), York, Pa.
Hoosier Drill Co., Richmond, Ind.
Implement Mfg. Co., Davenport, Ia.
Keystone Farm Machine Co., York, Pa.
Keystone Mfg. Co., Sterling, Ill.
Kingman Plow Co., Peoria, Ill.
Kingman & Co., Peoria, Ill.
Lehr Agricultural Co., Fremont, O.
Lovejoy, H. H. & Son, Cambridge, N. Y.
Luthy & Co., Peoria, Ill.
McSherry Mfg. Co., Middletown, O.
Marietta Mfg. Co., Marietta, O.
Messinger Mfg. Co., Tatamy, Pa.
**Moline Plow Co. (Single & Double & Three
Row),** Moline, Ill.
Morrison Mfg. Co., Ft. Madison, Ia.
Mountville Mfg. Co., Mountville, Pa.
Munford Heater Co., Galva, Ill.
Ohio Cultivator Co., Bellevue, O.
Ohio Rake Co., Dayton, O.
Parlin & Orendorff Co., Canton, Ill.
Peoria Scoop Board & Implement Co., Peoria,
Ill.
Peru Plow & Wheel Co., Peru, Ill.
Peters Pump Co., Kewanee, Ill.
Porter, J. E. Co. (All Steel), Ottawa, Ill.
**Quincy Corn Planter Co. ("Barlow" & "Van-
diver-Barlow"; Also Fertilizer Attachment),**
Racine-Sattley Co., Springfield, Ill. Quincy, Ill.
Rhea-Thielens Implement Co., Peoria, Ill.
Rock Island Plow Co., Rock Island, Ill.
Root, B. M. Co. (Single & Double Row), York,
Pa.
Sechler, D. M. Carriage Co. ("Black Hawk"),
Moline, Ill.
Sellers, Edw., Oakhall Station, Pa.
Sheffield Mfg. Co.
Southern Foundry & Machine Works, Fredericks-
burg, Va.
Spangler Mfg. Co., York, Pa.
Sterling Mfg. Co., Sterling, Ill.
Tait, F. B. Mfg. Co., Decatur, Ill.
Thompson, J. & Sons' Mfg. Co., Beloit, Wis.
Union Corn Planter Co., Peoria, Ill.
Wayne Works, Richmond, Ind.
White, S. R. & Bro., Norfolk, Va.
Whitehurst, R. W. Co., Norfolk, Va.
Williams Mfg. Co., Decatur, Ill.
Wistrand Mfg. Co. ("Blue Star"), Galva, Ill.

Planters (Corn, Hand)

Babcock Planter Co., Adrian, Mich.
Chautauqua Planter Co., Jamestown, N. Y.
Donaldson Bros. ("King"), Mt. Clemens, Mich.
Eagle Machine Co., Lancaster, O.
Emerson Mfg. Co., Rockford, Ill.
Eureka Fence Co., Richmond, Ind.
Harrison Mfg. Co., Sterling, Ill.
Horton Mfg. Co., Ft. Wayne, Ind.
Hughes & Smythe, Galena, O.
Kent, A. C., Janesville, Wis.
Kingman & Co., Peoria, Ill.
Kohler, F. E. & Co., Canton, O.
Nagley Mfg. Co. (Corn & Pumpkin), Lyons, N. Y.
Nash, Duane H., Millington, N. J.
Potato Implement Co., Traverse City, Mich.
Rock River Machine Co., Janesville, Wis.
Sheffield Mfg. Co., Burr Oak, Mich.
Vandergrift Mfg. Co., Jamestown, N. Y.
Wabers, H. H. Mfg. Co., Racine, Wis.
Wiard Plow Co., Batavia, N. Y.
Winship Mfg. Co., Racine, Wis.

Planters (Cotton)

**Atlanta Agricultural Works ("Brooks," "Dow
Law"),** Atlanta, Ga.
Avery, B. F. & Sons, Louisville, Ky.
Avery Mfg. Co. (Steel), Peoria, Ill.
Bradley, David, Mfg. Co., Bradley, Ill.
Brown, Hinman & Huntington, Columbus, O.
Cole Mfg. Co., Charlotte, N. C.
Deere & Mansur Co., Moline, Ill.
Eagle Mfg. Co. (Cotton & Corn), Kansas City,
Mo.
Emerson Mfg. Co. (Combined Cotton & Corn),
Rockford, Ill.
Evans, A. C. Mfg. Co., Springfield, O.
Farquhar, A. B. Co. (Ltd.), York, Pa.
Gale Mfg. Co. (Daisy, One & Two Row, Riding),
Albion, Mich.
Gantt, J. T., Macon, Ga.
Keystone Farm Machinery Co., York, Pa.
Lehr Agricultural Co., Fremont, O.
Moline Plow Co. (Single & Double Row), Moline,
Ill.
Morrison Mfg. Co., Ft. Madison, Ia.
Ohio Cultivator Co. (Ohio Sulky, etc.), Belle-
vue, O.
Parlin & Orendorff Co. (Cotton & Corn), Canton,
Ill.
Racine-Sattley Co. (Cotton & Corn), Spring-
field, Ill.
Rock Island Plow Co., Rock Island, Ill.
Sandwich Mfg. Co., Sandwich, Ill.
Sechler, D. M. Carriage Co., Moline, Ill.
South Bend Chilled Plow Co. (Cotton & Corn),
South Bend, Ind.
Southern Agricultural Works Co., Atlanta, Ga.
Southern Plow Co., Columbus, Ga.
Towers & Sullivan Mfg. Co. ("Dow Law"),
Rome, Ga.
White, S. R. & Bro., Norfolk, Va.
Whitehurst, R. W. & Co., Norfolk, Va.

Planters (Peanut)

Ayers, J. R., Petersburg, Va.

Planters (Potato)

American Harrow Co. (Hand), Detroit, Mich.
American Seeding Machine Co. Main Office,
Springfield, Ohio.
Aspinwall Mfg. Co., Jackson, Mich.
Baker, L. B. Mfg. Co. (Invincible), Racine, Wis.
Bateman Mfg. Co. (Robbins), Grenloch, N. J.
Belcher & Taylor Agricultural Tool Co., Chicopee
Falls, Mass.
Chambers, Bering & Quinlan Co. (C. B. Q.),
Decatur, Ill.
Champion Potato Machinery Co. (Self Feeding),
Hammond, Ind.
Deere & Mansur Co., Moline, Ill.
Enreka Mower Co. (One & Two Row), Utica,
N. Y.
Evans, A. C. Mfg. Co., Springfield, O.
Greenville Implement Co. (Hand), Greenville,
Mich.
Hirsch Bros. (Spalding), Milwaukee, Wis.
Keystone Mfg. Co., Sterling, Ill.
**Messinger Mfg. Co. (With Fertilizer Attach-
ment),** Tatamy, Pa.
**Potato Implement Co. ("Segment," "Eureka,"
"Pingree" & "Dewey" Hand),** Traverse
City, Mich.
Schofield & Co. (Junior), Freeport, Ill.
Sears, Albert H. (Plano), Plano, Ill.
Sheffield Mfg. Co. (Hand)
Steitz, J. R., Cudahy, Wis.
**Springer Bros. Mfg. Co. (Two Row, Check or
Drill),** Edwardsville, Ill.
Wabers, H. H. Mfg. Co. (Hand), Racine, Wis.
Whitehurst, R. W. & Co., Norfolk, Va.

Planters (Tobacco)

Bollman, Elmer, West Manchester, O.

Plaster Boards, Slabs, Etc.

A. B. Fireproofing Co., Schiller bldg, Chicago, Ill.
 Duffy, J. P. Co. ("Sackett" Wall Board), 440 E 138th, New York
 Grand Rapids Plaster Co. (W. S. Hovey, Gen'l Agent), Grand Rapids, Mich.
 Keystone Fireproofing Co., 16 S Broad, Phila., Pa. Works: Chester, Pa.
 Klotz, A. E. Fireproofing Co., 137th & Madison av, New York
 New Jersey Adamant Mfg. Co., Harrison, N. J.
 Rader, A. C. & Co., 7 E 137th, New York
 Rader, Gustave (also Blocks), 1105 Metropolitan av, Brooklyn, N. Y.
 Sackett Wall Board Co., 17 Battery pl, New York
 Wotherspoon Plaster Mills (Inc.), 1170 B'way, New York

Plaster Boards & Blocks

(See Fire Proof Plaster Boards, Slabs, Etc.)

Plaster Mfrs. (Asbestos)

Cleveland Asbestos Plaster Co. (Wall), Cleveland, O.
RUTLAND FIRE CLAY CO. (Flexible), Rutland, Vt. (See adv. on following page; branch offices, end of book)

Plaster Mfrs. (Calcined)

Acme Cement Plaster Co., Century bldg, St. Louis, Mo.
 Alabastine Co. (also Land Plaster), Grand Rapids, Mich.
 American Cement Plaster Co., Lawrence, Kan., & Quana, Tex.
 American Gypsum Co., Cleveland, O.
 Bangs & Gaynor (Land Plaster), Fayetteville, N. Y.
 Brockett, C. A. Cement Co., 121 W 8th, Kansas City, Mo.
 Conn. Adamant Plaster Co., 10 River st., New Haven, Conn.
FRENCH, SAMUEL H. & CO., 4th & Callowhill, Philadelphia, Pa. (See adv. index, end of book)
 Gilmore, S., Indian Falls, N. Y.
 Grand Rapids Plaster Co. (W. S. Hovey, General Agent) (also Land), Grand Rapids, Mich.

Hammill & Gillespie, 240 Front, N. Y.
 Higginson Mfg. Co., Newburgh, N. Y.
 Hot Springs Plaster Co., Hot Springs, S. Dak.; Omaha, Neb.; & Mankato, Minn.
 Independence Gypsum Co., Southard, Okla.
 Keystone Plaster Co., Chester, Pa.
 Kling, J. B. & Co., 1 B'way, New York
 Kling, C. Volney, 517 West, New York
 Lycoming Calcining Co., Williamsport, Pa., & Garbutt, N. J.

Miller, Clifford L. & Co. (White), 125 E 23d, New York
 National Wall Plaster Co., Syracuse, N. Y.
 Newark Lime & Cement Co., ft of Bridge st., Newark, N. J.
 Niagara Gypsum Co., Wheatville, N. Y.
 Rock Plaster Co., of N. Y. & N. J., 11 B'way, New York
 United States Gypsum Co., 200 Monroe, Chicago, Ill., & Cleveland, O.
 Wotherspoon Plaster Mills, 1170 B'way, New York

Plaster Mfrs. (Fibrous & Staff)

Eclipse Wood Fiber Plaster Co., Buffalo, N. Y.
EMMEL, CHAS., 383 Albany, Boston, Mass. (See adv. index & branch offices, end of book)
 Harnisch, Ad A., Spencer n Chlorine Springs, Syracuse, N. Y.
SEIFERT, FRANK A., PLASTIC Relief Co., 2646 Lawton av, St. Louis, Mo. (See adv. index, end of book)
SLEEP, ELLIOTT & KING CO., Inc., 562 W 23d, New York, & 351 Cambridge, Boston, Mass. (See adv. index, end of book)

Plaster Mfrs. (Wall)

(See also Stucco Mfrs.)

ALABAMA.

MOBILE—Alabama Pulp Plaster Co. (Pulp)

CALIFORNIA.

SAN FRANCISCO—Hearfield, Bannister & Co., 347 Brannan

CONNECTICUT.

BRIDGEPORT—Connecticut Flexible Plaster Co. (Flexible Fiber Wall Plaster)
 HARTFORD—Hartford Pulp Plaster Corporation, 73 Walnut (Elastic Pulp)
 NEW HAVEN—Connecticut Adamant Plaster Co.

GEORGIA.

ATLANTA—Georgia Wood Fibre Plaster Co., 33 Murphy av

ILLINOIS.

CHICAGO—**RUTLAND FIRE CLAY CO.** (Flexible Asbestos), 223 W 12th. (See adv. index & branch offices, end of book)
 United States Gypsum Co., 200 Monroe
 ROCKFORD—Rockford Wall Plaster Co., 1026 N 2d

INDIANA.

INDIANAPOLIS—Keepert, A. B. & Co., 312 W North
 NEW ALBANY—New Albany Wall Plaster Co. ("Star" & Wood Fibre)

IOWA.

CEDAR RAPIDS—King's Crown Plaster Co.
 DES MOINES—Des Moines Fuel & Lime Co.
 FORT DODGE—Cardiff Gypsum Plaster Co. ("Kallotte")
 Iowa Hard Plaster Co.
 Plymouth Gypsum Co. ("Plymouth" Cement & Wood Fibre)
 WATERLOO—Western Elyria Wood Plaster Co.

KANSAS.

BLUE RAPIDS—Electric Plaster Co.
 LAWRENCE—American Cement Plaster Co.
 Great Western Plaster Co.
 SALINA—American Cement Plaster Co.

KENTUCKY.LOUISVILLE—Atlas Wall Plaster Co.
 Kentucky Wall Plaster Co., River front & 1st**MAINE.**

RED BEACH—Red Beach Plaster Co.

MASSACHUSETTS.

BOSTON—New England Adamant Co., 325 Medford, Chsn.
RUTLAND FIRE CLAY CO. (Flexible Asbestos). (See adv. on following page)
 SPRINGFIELD—Springfield Eureka Hard Plaster Co.

MICHIGAN.

DETROIT—Little, C. H. Co., 40 Fort W
 FLINT—Flint-Wood Plaster Co. (Wood Fibre)
 GRAND RAPIDS—Alabastine Co., Granville rd (Plastic Hard Wall)
 Elyria Wood Plaster Co. (Wood)
 Grand Rapids Plaster Co., 429 Mich. Tr bldg (W. S. Hovey, General Agent)
 Gypsum Products Mfg. Co. (See also Wood Fibre)
 PORT HURON—Port Huron Wood Plaster Co. (Wood Fibre)

MISSOURI.

KANSAS CITY—Aetna Cement Plaster Co., 121 W 8th
 ST. LOUIS—Acme Cement Plaster Co., Century bldg
 Hunkins-Wills Lime & Cement Co., 18th & Austin

NEW JERSEY.

HARRISON—New Jersey Adamant Mfg. Co.
 NEWARK—Newark Lime & Cement Mfg. Co., Bridge & Ogden
 TRENTON—New Jersey Elastic Pulp Plaster Co. ("Pulp")

NEW YORK.

BUFFALO—Buffalo Paragon Wall Plaster Co., Eclipse Wood Fibre Plaster Co., 56 B'way
 Oakfield Plaster Mfg. Co., 488 Main

FAYETTEVILLE—Bangs-Gaynor Cement & Plaster Co.

Sheedy, Tbos. W.
 FULTON—Porter & Co.
 GARBUTT—Empire Gypsum Co. (Wall Plaster Sanded & Wood Fibre Plaster)
 Garbutt Gypsum Co. (of Rochester, N. Y.)
 HASTINGS-UPON-HUDSON—Adamant Wall Plaster Co.

NEWBURGH—Higginson Mfg. Co.

NEW YORK CITY.**Boroughs of Manhattan & Bronx**

NEW YORK—King, J. B. & Co., 1 B'way
 King, Volney C., 517 West
 Miller, Clifford L. & Co. ("Miller's"), 125 E 23d
 N. Y. Pulp Plaster Co. (Pulp), 110 E. 23d, New York City
 Rock Plaster Co., of N. Y. & N. J., 11 B'way
 Wotherspoon Plaster Mills, 1170 B'way

Borough of Richmond.

NEW BRIGHTON—King, J. B. & Co.
(END OF NEW YORK CITY)
 OAKFIELD—Oakfield Plaster Mfg. Co.
 ROCHESTER—Garbutt Gypsum Co.
 SYRACUSE—Adamant Plaster Co., Teall av & Canal
 National Wall Plaster Co., O. C. S. Bank bldg
 Paragon Plaster Co., Fayette & Magnolia, W. Water & N. Franklin
 UTICA—American Hard Wall Plaster Co.
 WHEATVILLE—Niagara Gypsum Co.

OHIO.

AKRON—Akron Wall Plaster Co.
 CANTON—Seeman Plaster Co.
 CLEVELAND—American Gypsum Co. ("Anchor" Cement & "Anchor" Wood Fibre)
 Forrester Plaster Co., ft. of Kirkland
 United States Gypsum Co.
 COLUMBUS—Ohio Wood Fibre Plaster Co.
 Rock Plaster Mfg. Co., Broad & H. V. Ry.
 DAYTON—Dayton Fibre Plaster Co. (Fibre)
 Rice Wall Plaster Co.
 EAST LIVERPOOL—Old Roman Wall Plaster Co.
 LIMA—Waltber, Philip
 LORAIN—Lorain, Wood Plaster Co. (W. W. Hoffman)

NAPOLEON—Napoleon Pulp Plaster Co.
 PORT CLINTON—Consumers' Gypsum Co.
 SHELBY—Morris, W. H.
 TOLEDO—Flashback Plaster Co.
 Toledo Pulp Plaster Co. (Pulp)
 Woodville White Lime Co.
 WARREN—Elastic Pulp Plaster Co.
 YOUNGSTOWN—Sharp Bros. & Co.

OKLAHOMA TERRITORY.

FERGUSON—Ruby Plaster Co.
 OKARCHE—U. S. Gypsum Co. (of Chicago)
 SOUTHARD—Independent Gypsum Co.

OREGON.

PORTLAND—Adamant Co., 5 1st N

PENNSYLVANIA.

BRADDOCK—Crown Wall Plaster Co.
 CHESTER—Keystone Plaster Co. (Adamant & "Victor")
 JOHNSTOWN—Johnstown Wall Plaster Co.
 LEBANON—Granitine Wall Plaster Co.
 NEW CASTLE—Galley Fibre Plaster Co.
 New Castle Elastic Pulp & Plaster Co. (Pulp)
 PHILADELPHIA—**FRENCH, SAM'L H. & Co.**, 4th & Callowhill. (See adv. index, end of book)
ROCK PLASTER (SAM'L H. French & Co., Agents), 4th & Callowhill
 PITTSBURG—Fitzgerald Plaster Co., McCance bldg
 National Mortar & Supply Co., McCance bldg
 SCRANTON—Paragon Plaster & Supply Co.
 WILLIAMSPORT—Diamond Wall Cement Co.
 Lycoming Calcining Co.

SOUTH DAKOTA.

HOT SPRINGS—Hot Springs Plaster Co.

UTAH.

SALT LAKE CITY—Utah Consolidated Plaster Co.

VERMONT.

BELLOWS FALLS—Bellows Falls Pulp Plaster Co. (Pulp)

RUTLAND—**RUTLAND FIRE CLAY CO.**
(Flexible Asbestos) (See adv. below)**VIRGINIA.**NORFOLK—Builders' Supply Co.
RICHMOND—Moore, Warner & Co.**WEST VIRGINIA.**FAIRMOUNT—Fairmont Wall Plaster Co.
WHEELING—Wheeling Wall Plaster Co.**WISCONSIN.**

OSHKOSH—Wisconsin Pulp Plaster Co.

WYOMING.

LARAMIE—Overland Cement & Plaster Co.

Plaster of Paris Mfrs.

(See Plaster Mfrs., Calcined.)

Plaster Packers

(See Cement Packers.)

Plaster Products for Paper Trade

Keystone Plaster Co., Chester, Pa.

Plasterers (Ornamental)**CALIFORNIA.**LOS ANGELES—McLean, William, 635 San Fernando
SAN FRANCISCO—Dnulop, Charles, 40 New Montgomery**COLORADO.**

(See names marked with a Star (*) under Contractors & Builders)

CONNECTICUT.

(See also names marked with a Star (*) under Contractors & Builders)

BRIDGEPORT—Dowling & Bottomley.

O'Brien, Timothy & Son

NEW HAVEN—Carroll, Michael

Malcolm, John D.

Townsend, William M.

WATERBURY—Butler, Thos. F., 145 Bishop

Rivet, George, 59 W Liberty

Vickers, Richard, 96 Pleasant

DELAWARE.WILMINGTON—McCaulley, Geo. W. & Son
Co., 103 W 5th**DISTRICT OF COLUMBIA.**

WASHINGTON—Amateis, Louis, 1717 19th N. W.

Landou, Thos. E., 1419 G, N. W.

ILLINOIS.CHICAGO—**ARCHITECTURAL DECOR-**
ating Co., 643 S Jefferson. (See adv. in
dex, end of book)

Bertolini, Robert, 95 N Western av

DECORATORS' SUPPLY CO.,Archer av & Leo. (See adv. index, end of
book)

Dorothy, W. H., 59 Cleark

Dix, Joseph, 132 W Jackson boul

Fournier & Jansen, 150 W Washington

Lemnox & Haldeman Co., 204 Dearborn

McNulty Bros., Ry Exchange bldg

Nelson, W. P. Co., 241 Michigan av

O'Toole Bros., 279 Dearborn

Plastic Relief Mfg. Co., 298 N Halsted

Sutton, John C., First Nat'l Bank bldg

Zauder, Reum Co., 214 S Clark

INDIANA.(See also names marked with a Star (*) under
Contractors & Builders)

FORT WAYNE—Lang, H. R. & Co.

INDIANAPOLIS—Ballard & Rusie, 1122 St.
Kingham, Jno. A., 1512 Sheldon Peter**IOWA.**

DES MOINES—Tusant, J. E., 580 7th

KENTUCKY.LOUISVILLE—Banuou, W. P., 2203 1st
Campbell, B. J. & Sons, Fulton nr 1st
Crull, Jas. H., 551 E Green
Finck, Wm. F., 1901 Fischer av**MAINE.**PORTLAND—Gatley, R. K., 59 Union
Jackson, C. & W. B., 562 Congress
Ward, A. H. & Son, 320 Federal
Ward, Patrick, 13 Casco**MARYLAND.**(See also names marked with a Star (*) under
Contractors & Builders)

BALTIMORE—Johnson, L. F., 406 N Howard

MASSACHUSETTS.BOSTON—Black, Robert & Sons, 19 Folsom
Donahay, A. H., 95 Milk
Donovan, D. F. & Co., 7 Water
ENMEL, CHARLES, 383 Albany.
(See adv. index, end of book)
Gallagher & Munro Co., 76 Kemble Rox
Grady, M. J. & Son, 95 Milk
McIntosh, Allan, 166 Devonshire
Muir Bros., 24 Milk
Parker, Thos. & Co., 166 Devonshire**SLEEP, ELLIOTT & KING CO.,**
351 Cambridge. (See adv. index, end of
Townsend, J. H., 166 Devonshire book)
LOWELL—Prescott, D. Moody, 23 Oak**MICHIGAN.**(See also names marked with a Star (*) under
Contractors & Builders)

DETROIT—Calnon & Goodall, 40 Fort W

Finn, Michael, 40 Fort W

Fritsch, Albert, 462 Wilkins

Hanley, Jno., McGraw bldg

Hugg & Co., 445 Military av

MISSOURI.ST. LOUIS—Auderson, Peter & Bro., 816 Olive
Beumer, P. H., 2111 Howard

Craig, L. C., Odd Fellows bldg

Fitzgerald, John, 2621 Clara av

Lee, J. H. & Bro., Odd Fellows bldg

Rowan, Patk., 4433 Berlin av

SEIFERT, FRANK A., PLASTICRelief Co., 2646 Lawton av. (See adv.
index, end of book)

Wehmuller, John & Son, 1502 Palm

White, Porter, 415 Locust

NEW JERSEY.

ELIZABETH—Eilbacher, Chas., 32 4th

NEWARK—Auderhub, Carl, 65 14th av

Carlewitz, A. Co., 83 Plane

Creter, Philip, 34 Livingston

Prior, James V., 288 Wash'n

OCEAN CITY—Adams, George O.

Adams Decorative Co.

NEW YORK.

BUFFALO—Byrne & Bannister, Bldrs. Ex.

Davis, Jas. M., 411 Vermont

Quinn, Jos., Virginia pl & Allen

NEW YORK CITY.**Borough of Brooklyn.**BROOKLYN—Clegg, Chas., 278 Milford
Eastern Ornamental Plaster Co., 75 Fulton**Boroughs of Manhattan & Bronx**NEW YORK—Alavoine, L. Co., 42 W 43d
Allard & Sons, 185 Madison av
Amos & Clark, 1123 B'way
Berger's, H. Sons, 101 4th av
Beitz, IL, 206 E 50th
Boyland, John, 396 B'way
Brace, Chas. W., 232 E 42d
Brown, Davis, 306 E 40th
Buchler & Lauter, 505 W 45th
Campbell & Morgan, 157 W 123d
Corney, W. B. & Bro., 156 5th av
Craig, William, 407 E 31st
Dickson, Alexander, 219 E 30th
Disker, Martin & Son, 114 E 23d
Dwyer, Edmund, 320 E 90th
French Studios, 110 West End av
Haigh, Hartley, 263 W 126th
Hammerstein & Denivelle (Plain & Orna-
mental). 451 W 54th
Herter Bros., 489 5th av
Klee, Thomson Co., 327 E 40th**FIRE PROOF****WATER PROOF****FROST PROOF****Rutland Flexible Asbestos Wall Plaster**

MADE FROM FIRE CLAY, PORTLAND CEMENT AND ASBESTOS FIBRE.

Samples Furnished FREE For Test Purposes

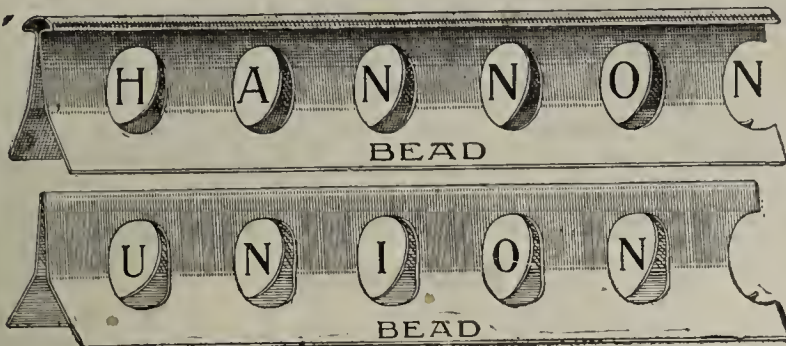
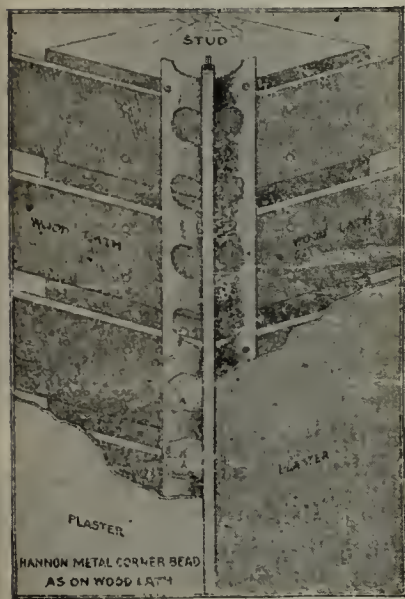
GROUND MARBLE, FIRE CLAY, SOAP STONE, MICA SCHIST, ETC.

RUTLAND FIRE CLAY CO.

RUTLAND, VT., U. S. A.

METAL CORNER BEADS

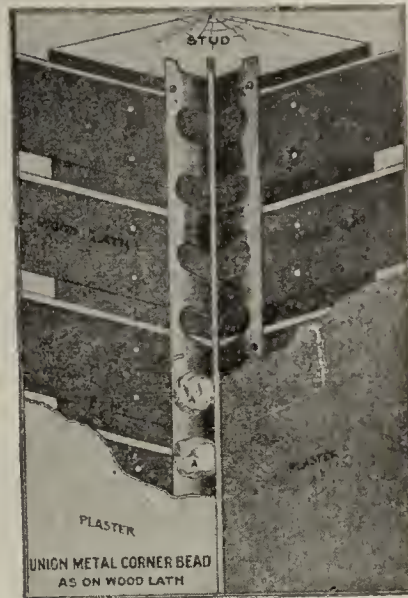
For Plaster Corners on Wood, Brick, Terra Cotta and Iron.



These Beads can be arched to fit any desired radius; it makes a true curve for the plasterer to work by, saving time and labor.

Broken and chipped-off corners are unknown in buildings where this bead is used—makes a handsome, durable, fireproof corner.

It is not expensive. It is cheaper to put corner bead in your building than leave it off, because it makes a true corner and a plasterer can proceed with his work and not stop to use a straightedge, which is necessary on plaster corners. Something new: We manufacture the Goodwin Clip Bead, the finest clip bead on the market.



SEND FOR CATALOGUE AND SAMPLE TO

UNION METAL CORNER COMPANY, Manufacturers, 206 Summer St., BOSTON, MASS.

M. A. HANNON, Pres. and Treas.

ENDORSED BY ALL THE LEADING ARCHITECTS AND BUILDERS.

Liesnm, Geo., 228 E 24th
Jacobson & Co., 246 E 44th
Kessler, N., 176 E 7th
McNab, Wm., 147 E 91st
McNulty Bros., 520 W 23d
Martinelli & Thoma, 322 7th av
Miller, H. W. (Inc.), 501 E 22d
Morrison, James, Jr., 247 W 28th
Neumann & Even, 335 E 46th
O'Rourke, Tierney A., 550 1st av
Parker, Wm., 324 7th av
Phillips, Jas. A., 452 W 57th
Pottier & Styms Co., 375 Lexington av
Power Bros., 248 W 106th
Power-Brown Plastering Co., 1 Madison av
Richard, Louis (Ornamental), 110 West End av

Riker, John P. & Son, 507 W 28th
Roberts, John J., 554 W 25th
Rochette & Parzini, 719 1st av
Rosario, S. N. & Bro., 524 W 30th
Scheltgen, H. J. & Co., 203 E 44th
Schulstadt Bros. & Co., 421 E 54th
Salvatore & Scocca, 419 E 114th
SLEEP, ELLIOTT & KING CO.,
Inc., 562 W 23d (See adv. index, end of book)
Smith, Jos. & Co., 428 E 23d
Walter, G. E. Co., 157 E 44th
Walhausen, John H. A., 454 W 41st
(END OF NEW YORK CITY)

SYRACUSE—Merz & Schweikert, 921 Highland
Schneider, F. H., 120 Burnet
Van Eseline, Grant, 339 S Warren

OHIO.

(See also names marked with a Star (*) under Contractors & Builders)

CINCINNATI—Castruccio, W. Co., 318 E 5th
Cincinnati Plastic Relief Co., Station M
Hancock, Levi B., Builders' Bx.
Marks, W. A. Plaster Ornamental Mfg. Co., 726 W 5th

O'Brien, John, Madison road
Pugh, W. J., Builders' & Traders' Exch.
Rudd, W. R. & Bro., 5th & Race
CLEVELAND—T. Tarbet & J. S. Gifford (Also Plain), 1798 E 55th

COLUMBUS—Mellish, C. W., 251 E Long
Ohio Wood Fibre Plaster Co., N W cor Vine & Kilbourne

TOLEDO—McCaffery, John, 526 Cherry
ZANESVILLE—Fogarty & Curtis

PENNSYLVANIA.

(See also names marked with a Star (*) under Contractors & Builders)

ALLEGHENY—Diem, A. & Co., 101 Jackson
Duncan & Porter, 310 Morgan
Evans, Frank, 618 Allegheny av
Hailey, R. H., 120 E Ohio
BEAVER FALLS—Lutton, Aaron
BELLEVILLE—Lebkisher, John P.
BRADDOCK—Crown Wall Plaster Co.
CANONSBURG—Hull, Robert T.

McNary, E. E.
CHESTER—Mills, Henry
GREENSBURG—Allison, G. A.
Cochrane, James

JENKINTOWN—Fitzgerald, Thomas, 227 Perry
LANSDALE—Rosenberger, Oliver
MANCHESTER—Jacobs, F. L.

Duncan, Presley
MOUNT HOLLY SPRINGS—Wolf, Hy. A.
NEW CUMBERLAND—Negley, Theo.

NEW KENSINGTON—Bar, Robert, Jr.
NORRISTOWN—Detwiler, G. M.

Doran, Lawrence
OXFORD—Reburn, John L.

PENNSBURG—Beary, David D.
PHILADELPHIA—Allen, James T. & Son, 212 S 10th

Boyd, Hugh & Son, 706 S 11th
Brady-Dackert Co., 1118 Chestnut
Caverow, G. & M., 1243 N 10th

Farley, Wm. E., 30 N 38th
Florentine Art Plaster Co., 2217 Chestnut
Reeves, J. W. & C. IL, 923 Darien

Shaw & Co., 311 N 5th
Tognarelli & Voight, 2310 Chestnut
Whitman, J. Franklin Co., 432 N 12th

PITTSBURG—Ahl, F. D., 5902 Baum
Evans, J. C. & Co., 930 Portland
Hoffman, Wm. H., Farmers' Bank bldg

Jones, James M., 119 Larimer
McNulty Bros., Frick bldg
Roscow, Joseph, 6349 Anrelia

READING—De Haven, E. W.
ST. MARYS—Jacob, John A.

Wegener, John & Son
WEST NEWTON—Obley, F. & P. S.

WILKINSBURG—McDowell, A. T. & Sons, 1325 Singer pl

RHODE ISLAND.

NEWPORT—Morgan Bros.
PROVIDENCE—Norton, John, 47 S Main
Welch & McGreen (Ornamental), 43 Meeting

TENNESSEE.

MEMPHIS—Alexander, Jas., Builders' Exchge
NASHVILLE—Hoover & Co.
Le Seur, S. J. & Olive

TEXAS.

(See names marked with a Star (*) under Contractors & Builders)

WASHINGTON.

(See names marked with a Star (*) under Contractors & Builders)

WISCONSIN.

MILWAUKEE—Maxwell & Stillman, 445 Milwaukee
Milwaukee Ornamental Carving Co.

Plasterers' Steel Corner Beads

BOSTWICK STEEL LATH CO. ("The Bostwick" Hot, Galvanized). Niles, Q. (See adv. index, end of book)

CHICAGO BUILDERS' SPECIALTIES Co. (Agents for "Universal"), 138 Washington, Chicago, Ill. (See adv. index, end of book)

Gara, McGinley & Co. (Woods), 23 S 17th, Phila., Pa.

Hunt Metal Corner Co., Westboro, Mass.

MERRITT & CO., 1024 Ridge av. Philadelphia, Pa. (See adv. index, end of book)

Penn Metal Ceiling & Roofing Co., 23d & Hamilton, Phila., Pa.

PRESCOTT, J. B. & SON ("Prescott"), Webster, Mass. (See adv. index, end of book)

Rogers-Shear Co. ("Universal"), Warren, Pa.

UNION METAL CORNER CO. ("Hannon," "Goodwin" & "Union"), 206 Summer, Boston, Mass. (See adv. above)

Plastering Fibre

American Fibre Co., Jacksonville, Fla.
Fernald Co. ("Giant"), 248 Tehama, San Francisco, Cal.
Hoffman-Corr Mfg. Co., 55 White, New York
Salasee Fibre Co., 150 W. 35th, New York
Whiting, E. B. & A. C., Burlington, Vt.

Plastering Hair

Armour Curled Hair Works, 205 La Salle, Chicago, Ill.
Baeder, Adamson & Co., 67 Beekman, New York
FRENCH, SAM'L H. & CO., York av.
4th & Calowhill, Phila., Pa. (See adv. index, end of book)
Hoffman-Corr Mfg. Co., 55 White st., New York, N. Y.
Illinois Leather Co., 400 N Halstead, Chicago, Ill.
Whiting, E. B. & A. C., Burlington, Vt.

Plate (Aluminum)

Aluminum Co. of America, Pittsburg, Pa., & 99 John, New York

Plate (Armor)

Bethlehem Steel Co., South Bethlehem, Pa.
Carnegie Steel Co., Carnegie bldg, Pittsburg, Pa.
Midvale Steel Co., Nicetown, Phila., Pa.

Plate (Shovel)

Harrisburg Pipe & Pipe Bending Co., Harrisburg, Pa.

Plate (Steel Boiler)

(See Iron & Steel Boiler & Tank Plate.)

Plate (Steel Bridge)

Carbon Steel Co., Pittsburg, Pa., & 26 Cortlandt, New York
Carnegie Steel Co., Pittsburg Pa.; Penna bldg, Phila., Pa.
Cleveland Steel Co., Cleveland, O.
Crucible Steel Co. of America, Frick bldg, Pittsburg, Pa.
Eastern Steel Co., Pottsville, Pa.
Glasgow Iron Co., Pottstown, Pa.
Illinois Steel Co., The Rookery, Chicago, Ill.
Jones & Laughlin Steel Co., Pittsburg, Pa.
Lucknow Iron & Steel Co., Harrisburg, Pa.
Lukens Iron & Steel Co., Coatesville, Pa.
Maryland Steel Co., Baltimore, Md.
Parkersburg Iron & Steel Co., Parkersburg, W. Va.
Passaic Steel Co., Paterson, N. J., & 5 Nassau, New York
Phoenix Iron Co., 410 Walnut, Philadelphia, Pa.
Reading Iron Co., Reading, Pa.
Republic Iron & Steel Co., Frick bldg. annex, Pittsburg, Pa.

Plate (Steel Fire Box)

AMERICAN STEEL & WIRE CO.,
The Rookery, Chicago, Ill. (See adv. index & branch offices, end of book)
Carbon Steel Co., Pittsburg, Pa., & 26 Cortlandt, New York
Carnegie Steel Co., Carnegie bldg, Pittsburg, Pa.
Central Iron & Steel Co., Harrisburg, Pa.
Colonial Steel Co., Pittsburg, Pa.
Crucible Steel Co. of America, Frick bldg, Pittsburg, Pa.
Illinois Steel Co., The Rookery, Chicago, Ill.
Lukens Iron & Steel Co., Coatesville, Pa.
Otis Steel Co., Lake c Lawrence, Cleveland, O.
Republic Iron & Steel Co., Frick bldg Annex, Pittsburg, Pa.
Taylor, N. & G. Co., Mariner & Merchants' bldg, Phila., Pa.

Plate (Steel Fish)

(See Rail Braces & Fastenings).

Plate (Tack)

(See Steel Tack Plate)

Platers' & Polishers' Supplies

Auburn Soap & Chemical Co. ("Tripoli," Vienna Lime, Emery Paste, Quicklime, Lye, Rouge, "Crown," White Polish), Auburn, N. Y.

Bennett & O'Connell Co., 101 S. Clinton, Chicago, Ill.
Burns, E. Reed, 40 Withers, Brooklyn, N. Y.
Cobb, Arthur, 96 High, Boston, Mass.
Cutter, Wood & Stevens Co., 68 Pearl, Boston, Mass.
Gold, Walter C., 235 Race, Philadelphia, Pa.
Foot Mfg. Co. (Polishing Feits, Buffs, Brushes, etc.), Jersey City, N. J.
Hausen & Van Winkle Co., Newark, N. J., & 30 W. Canal, Chicago, Ill.
Harshaw, Fuller & Goodwin Co., 319 Electric bldg., Cleveland, O.
L'Homedieu, Chas. F., & Sons Co., 99 S. Canal, Chicago, Ill.
Sommer's, John Sons (Drying Materials), Newark, N. J.
Stevens, F. B., 3d & Larned, Detroit, Mich.
Zucker & Leavett & Loeb Co., 526 W 25th, New York

Plates (Bosh)

Best Mfg. Co. (Furnace), 25th & A. V. Ry., Pittsburg, Pa.
Lawrenceville Bronze Co., 31st & Penn av, Pittsburg, Pa.

Plates (Box Printing)

Honchin & Huber, 35 53d, Brooklyn, N. Y.

Plates (Buckle)

Edge Moor Iron Co. (For Bridges, Buildings, etc.), Wilmington, Del.
Glasgow Iron Co., Pottstown, Pa.

Plates (Bumper)

Ireland & Matthews Mfg. Co. (For Plumbers Wood Work), Detroit, Mich.

Plates (Center)

Dayton Malleable Iron Co. (Lubricating), Dayton, O.
Pressed Steel Car Co., Pittsburg, Pa.
Transue & Williams Co., Alliance, O.

Plates (Core)

Crescent Machine Co., 1152 Trumbull av, Detroit, Mich.

Plates (Crusher)

Philadelphia Roll & Machine Co., S 23d & Wash'n av, Phila., Pa.

Plates (End Gate)

Griffin Mfg. Co., Erie, Pa.

Plates (Expansion)

Western Tube Co., Kewanee, Ill.

Plates (Felloe)

Avery Stamping Co. (Steel), Cleveland, O.
Sessions, J. H., Son, Bristol, Conn.
Wrought Washer Mfg. Co., Milwaukee, Wis.

Plates (Filter Press)

Aitchison Perforating Co., 303 Dearborn, Chicago
CURRIER, CYRUS & SONS, Newark,
N. J. (See adv. index, end of book)
Mundt, Chas. & Sons, 441 Pearl, New York
Shriver, T. & Co., Harrison, N. J.

Plates (Floor, Iron & Steel)

Carnegie Steel Co. (Steel), Carnegie bldg, Pittsburg, Pa.
Co-Operative Foundry Co. (Cast Iron for Mill Construction), Detroit, Mich.
Froment & Co., 151 Bank, New York
Greger Mfg. Co. (Cast Iron, Noiseless), 22d & Washington av, Phila., Pa.
Ogden & Wallace (Never Slip Wrought Steel), 577 Greenwich, N. Y.
Sligo Iron & Steel Co. (Wrought Steel), House bldg., Pittsburg, Pa.
Townsend Furnace & Machine Shop Co. (Cast Iron), Albany, N. Y.
Wood, Alan Iron & Steel Co. (Diamond Ribbed Rolled Steel), 519 Arch, Phila., Pa.

Plates (Floor & Ceiling)

Adams Co. (For Stove Pipe Register), Dubuque, Iowa
Beaton & Corbin Mfg. Co., Southington, Conn.
Belfield, H. & Co., 435 N Broad, Phila., Pa.
Bishop & Giddings, Southington, Conn.
Boekel, Wm. & Co., 518 Vine, Phila., Pa.
Buckley-Hart Mfg. Co., Detroit, Mich.
Cheney, S. & Son, Manlius, N. Y.
Clark, Robt., 98 Schermerhorn, Brooklyn, N. Y.
Climax Specialty Co., Seneca Falls, N. Y.
Crane Co. (Est. 1855), 519 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
Crescent Brass & Iron Co., Detroit, Mich.
Crescent Mfg. Co., Bristol, Conn.
Davis, John Co., 75 Michigan, Chicago
Devlin, Thos. & Co., 3d & Lehigh av, Phila., Pa.
Eureka Heating & Ventilating Co., Saginaw, Mich.
Exeter Brass Works, Exeter, N. H.
Flagg, Stanley G. & Co., 19th & Penn av, Phila., Pa.
Fort Pitt Malleable & Gray Iron Co., Pittsburg, Pa.
General Fire Extinguisher Co., Providence, R. I.
Glenn Mfg. Co., St. Charles, Ill.
Griffing, A. A. Iron Co., Jersey City, N. J.
Grundy Brass Works, 50 Sudbury, Boston, Mass.
Haydenville Co., Haydenville, Mass., & 150 Nassau, N. Y.
Hoffman, B. Mfg. Co., Milwaukee, Wis.
Hoffman-Billings Mfg. Co., Milwaukee, Wis.
Houghton Mfg. Co., Worcester, Mass.
Illinois Malleable Iron Co., 30 West Monroe, Detroit, Mich.
Ireland & Matthews Mfg. Co. (Spnn Brass), Detroit, Mich.
Jarecki Mfg. Co., Erie, Pa., & Pittsburg, Pa.
Kelly & Jones Mfg. Co., Pittsburg, Pa.
Kupferle, John C., St. Louis, Mo.
McNab & Harlin Mfg. Co., 56 John, N. Y.
Matthews Mfg. Co., Worcester, Mass.
Miller Specialty Co. ("Cling Fast" Ceiling Plates), Tonawanda, N. Y.
Nason Mfg. Co., 71 Beekman, N. Y.
Nelson, N. O. Mfg. Co. ("Vosberg," Thimble), 8 St. Charles, St. Louis, Mo.
Newbury, Jay H., Goshen, N. Y.
Newbury Mfg. Co., Monroe, N. Y.
Niagara Radiator Co., North Tonawanda, N. Y.
Ohio Pump & Brass Co. (Floor), 18th & Oak, Columbus, O.
Pleuger & Henger Mfg. Co., St. Louis, Mo.
Powhattan Brass & Iron Works, Charlestown, W. Va.
Rundle-Spence Mfg. Co., Milwaukee, Wis.
Smith & Thayer Co., 236 Congress, Boston, Mass.
Snyder, L. H. & Co., Bristol, Conn.
Steele & Johnson Mfg. Co., Waterbury, Conn.
Victor Excelsior Brass Works, 128 White, New York
Walworth Mfg. Co., 132 Federal, Boston, Mass.
Waterbury Mfg. Co., Waterbury, Conn.
West Coxackie Foundry, W. Coxackie, N. Y.
Western Tube Co., Kewanee, Ill.
Wolverine Brass Works, Grand Rapids, Mich.

Plates (Index)

Brown & Sharpe Mfg. Co., Providence, R. I.

**When writing to firms
whose names appear
in this book please
mention**

**HENDRICKS'
COMMERCIAL
REGISTER.**

Plates (Joint)

BOMMER BROS., 255 Classon av.,
Brooklyn, N. Y. (See adv. index, end of book)
Reading Iron Co., Reading, Pa.

Plates (Kick & Push)

Champion Safety Lock Co., Geneva, O.
Chicago Hardware Co., 40 Dearborn, Ill.
Chicago Spring Butt Co., 491 Carroll av, Chicago

CINCINNATI MFG. CO., 1243 W 6th,
Cincinnati, O. (See adv. index, end of book)
Corbln, P. & F., New Britain, Conn.
Hecla Iron Works, 118 N 11th, Brooklyn, N. Y.
JACKSON, WM. H. COMPANY, 29 E
17th (Union sq), New York. (See adv. index, end of book)

Murdock-Shaw Co., Boston, Mass.
Penn Hardware Co., Reading, Pa.
Pittsburg Brass Mfg. Co. (Brass), Pittsburg, Pa.
Reading Hardware Co., Reading, Pa.
Shelby Spring Hinge Co. (Steel, Solid Bronze & Brass), Shelby, O.

SMITH, F. P. WIRE & IRON WORKS
100 Lake, Chicago, Ill. (See adv. index, end of book)
Stover Mfg. Co., Freeport, Ill.
Turner Brass Works, 66 Michigan, Chicago, Ill.

UNION EQUIPMENT AND BRONZE CO.

520 W 36th, N. Y. (See adv. outside stencil)
Western Brass Mfg. Works (Brass or Bronze),
21st & Rockwell, Chicago, Ill.
Yale & Towne Mfg. Co., 9 Murray, New York.
Works: Stamford, Conn.

Plates (Mending)

Brewer Bros. (Wrought), 614 Filbert, Phila., Pa.
STANLEY WORKS (Wrought Steel),
New Britain, Conn. & 79 Chambers, New York.
(See adv. index, end of book)
WILCOX MFG. CO., Aurora, Ill. (See
adv. index, end of book)

Plates (Pew)

Everett, A. & Son, Auburn, N. Y.

Plates (Piano)

Fairbanks Machine Tool Co., Springfield, O.
Kelly, O. S. Co., Springfield, O.
Shriver, T. & Co., Harrison, N. J.

***Plates (Pressed Steel)**

PRESSED STEEL TANK CO.,
(Flanged, Deep Stamped, Forged or Drawn to Shape), Milwaukee, Wis. (See adv. index, end of book)

Plates (Pressed Steel Spring)

Davis Pressed Steel Co. (Pressed Steel), Wilmington, Del.

Plates (Rapping)

(For Foundry Use.)

Kelly, Thos. P. & Co. ("Fraser"), 544 W 22d, New York
Oliver Machinery Co., Grand Rapids, Mich.
Shanafelt Mfg. Co., Canton, O.
SMITH, J. D. FOUNDRY SUPPLY CO.
("Acme"), 40 S Water, Cleveland, O. (See adv. index, end of book)

Plates (Screen)

Annandale Screen Plate Co., Paterson, N. J.
Appleton Screen Plate Co., Appleton, Wis.
Bay State Tap & Die Co., Mansfield, Mass.
Bellows Falls Screen Plate Co., Bellows Falls, Vt.
Black & Clawson Co., Hamilton, O.
Eastwood Wire Mfg. Co. (Rolled Brass & Perfection Bronze), Belleville, N. J.
Fox River Screen Plate Co., Appleton, Wis.
HARDY, WM. A. & SONS CO. ("Hardy & Pinder"), Fitchburg, Mass. (See adv. below)
Judson & Williams, Holyoke, Mass.
Union Screen Plate Co., Fitchburg, Mass.
Weldig & Co, Zanesville, O.

Plates (Screw)

(See Screw Plates.)

Plates (Splice)

KOPPEL, ARTHUR CO., 68 Broad,
New York. (See adv. index, & Branch offices, end of book)
Penna. Steel Co., Steelton, Pa.; Girard bldg.
Reading Iron Co., Reading, Pa. Phila., Pa.
WIENER, ERNST CO., 68 Broad, New
York. (See adv. index, end of book)

Plates (Stair)

Globe Mfg. Co., Palmsville, O.

Plates (Steel Etching)

Lippert, E. T. (Used in Glass Houses for Decorating Glassware), Millvale Station, Allegheny, Pa.

***Plates (Suction)**

HARDY, WM. A. & SONS CO., Fitch-
burg, Mass. (See adv. below)

Plates (Surface)

Blair & Sharpe Mfg. Co., Providence, R. I.
Hub Line & Tool Co. ("Acme"), 621 Cherry, Phila., Pa.
Putnam Machine Co., Fitchburg, Mass.
Rogers Co. M., Boat, Gauge & Drill Wks., Gloucester City, N. J.
Snyder Metcalf, Waterford, N. Y.

Plates (Tie)

Atlas Railway Supply Co., Manhattan bldg, Chicago, Ill.
Beaver Dam Malleable Iron Co., Beaver Dam, Wis.
Buda Foundry & Mfg. Co., Railway Exchange bldg, Chicago, Ill. Works: Harvey, Ill.
Cambria Steel Co., Arcade bldg, Phila., Pa.
Dilworth, Porter & Co. (Goidie Claw, etc.), German National Bank bldg, Pittsburg, Pa., & 45 Cliff, New York
Elyria Iron & Steel Co. (R. R.), Elyria, O.
FAIRBANKS, MORSE & CO., Frank-
lin & Monroe, Chicago, Ill. (See adv. index & branch offices, end of book)

William A. Hardy & Sons Co.

Established 1850

Incorporated 1902

BRASS FOUNDERS

SOLE MANUFACTURERS OF THE

Hardy Bronze Screen and Suction Plates

ALL KINDS OF

CASTINGS AND BEARING METALS

FITCHBURG,

MASSACHUSETTS

Hart Steel Co. ("McKee"), 26 Cortlandt, New York
 Illinois Steel Co., The Rookery, Chicago, Ill.
KOPPEL, ARTHUR CO., 68 Broad,
 New York. (See adv. index, and branch offices, end of book)
 Oliver Iron & Steel Co., Pittsburg, Pa.
 Rail Joint Co. ("Federal" & "Chicago"), 29 W 34th, New York
 Railroad Supply Co. ("Q. & W." "Wolhaupter," "Servis," "C. A. C.") Shoulder Flange Flat Bottom Combination", Bedford bldg New York
 Sellers Mfg. Co., 27 W Chicago av, Chicago, Ill.
 Weir Frog Co., Beach & Highland av, Cincinnati, O.
 Wharton, Wm., Jr., & Co. (Inc.), 25th & Washington av, Philadelphia, Pa.
WIENER, ERNST CO., 68 Broad, New York. (See adv. index, end of book)

Plates (Universal)

La Belle Iron Works, Steubenville, O.
 Lukens Iron & Steel Co., Coatesville, Pa.
 Wood, Alan Iron & Steel Co., 519 Arch, Phila., Pa.

Plates (Wire Drawing)

Newman, C. Wire Co., 143 Liberty, New York
 Newton, J. W. (Importer & Dealer), 81 John, New York

Plates (Zinc)

Edes Mfg. Co., Plymouth, Mass.
 Matthiessen & Hegeler Zinc Co. (Rolled), La Salle, Ill.
 Phillips, Ezra & Sons (Pure Rolled), South Hanover, Mass.

Platforms (Steel Car)

National Car Coupler Co., Monadnock blk, Chicago, Ill.; Works, Converse, Ind.
 Standard Coupler Co., 100 E'way, New York Works, Bridgeport, Conn.

Plating Works

Acorn Brass Mfg. Co., 51 N Peoria, Chicago, Ill., & St. Louis, Mo.
 American Tube & Stamping Co. (Nickel, Brass & Copper), Bridgeport, Conn.
 Arcade Mfg. Co. (Nickel), Freeport, Ill.
 Boston Brass Co. (Nickel Platers), 36 Oliver, Boston, Mass.
 Buescher Band Instrument Co. (All Kinds), Elkhart, Ind.
 Central Plating Works, Indianapolis, Ind.
 Clark, John W. (Nickel), Albany, N. Y.
 Columbia Machine Works & Malleable Iron Co. (Nickel, etc.), 269 Chestnut, Brooklyn, N. Y.
 Dailey Plating Co., Lynn, Mass.
 Devlin, Thos. Mfg. Co. (Electro Plating in Gold Silver, Nickel, Brass & Bronze), 3d & Lehigh av, Phila., Pa.
 Doyle, Wm. J. (Polishing, Nickel Plating, Lacquering, etc.)
 Eastwood Wire & Mfg. Co. (Nickel Platings, Oxydizing), Belleville, N. J.
 Edwardsville Brass Co. (Nickel, Electro, etc.), Edwardsville, Ill.
 Enterprise Brass & Plating Co., Clark & Harriet, Cincinnati, O.
 Enterprise Mfg. Co. (Nickel, etc.), Newburgh, N. Y.
 Excelsior Brass Works (Gold, Silver, Brass, Nickel, Copper & Oxydizing), Reading, Pa.
 Frazer & Jones (Nickel, Brass & Copper), Syracuse, N. Y.
 Gardner Nickel Plating Co. (Nickel, Brass, Silver & Copper), Gardner, Mass.
 Gaumer, Jno. L. Co. (Electro, Gold, Silver, Nickel, Copper, etc.), 22d & Wood, Phila., Pa.
 Kelm, John R. (Nickel, etc.), Kensington av & Erie R. R., Buffalo, N. Y.
 Klenzle, W. F. (Gold, Silver, Oroide, Brass & Nickel), 92 Ohio, Chicago, Ill.
 Loeffelholz Co. (Silver & Nickel), Milwaukee, Wis.
 Miller, J. Walter (Gold, Silver & Nickel), Lancaster, Pa.
 Mills, Wm. J. (Gold, Silver & Nickel Plating), 639 Kent av, Brooklyn, N. Y.
 Milwaukee Automatic Machine Co. (Brass, Copper & Nickel), Milwaukee, Wis.
 Naugatuck Mfg. Co., Naugatuck, Conn.
 Norwich Nickel & Brass Co. (Nickel, Copper & Silver), Norwich, Conn.
 Ohio Foundry Co. (Nickel), Cleveland, O.
 Palmer & De Mooy Fdy. Co. (Bronze, Nickel, etc.), Cleveland, O.
 Philadelphia Hardware & Malleable Iron Works (Inc.), 9th & Jefferson, Phila., Pa.

Plueger & Henger Mfg. Co., 11th & Hebert, St. Louis, Mo.
 Racine Malleable & Wrought Iron Co. (Nickel, etc.), Racine, Wis.
 Reed & Prince Mfg. Co. (Nickel, Brass & Copper), Worcester, Mass.
 Sessions, J. H. & Son (Brass, Nickel & Bronze Plating & Polishing), Bristol, Conn.
 Standard Plating Co. (Oxydizing, Polishing & Lacquering, etc.), Evansville, Ind.
 Timberlake, J. B. (Gold, Silver & Nickel), Jackson, Mich.
 Tresal Bronzing & Plating Co. (Bronzers, Gilders & Platers), 245 W 28th, New York
 Turner Brass Works, 66 Michigan, Chicago, Ill.
 Turner & Seymour Mfg. Co. (Silver, Nickel, Gold, etc.), Torrington, Conn.
 Weiskittle, A. & Son (Nickel Platers, Enamellers, etc.), Aliceanna & Washington, Baltimore, Md.
 Woods-Sherwood Co. (Nickel & Silver), Lowell, Mass.
WRIGHT WIRE CO. (All Kinds of Plating). Worcester, Mass. (See adv. index and branch offices, end of book)

Platinoid (Non-Fusing)

Manhattan Dental Co., Times bldg. New York

Platinum

Baker & Co. (Inc.) (Special Shapes), Newark, N. J.
 Bishop J. & Co. (Refiners & Melters, Wire, Plate, Tubes & Special Shapes), Malvern, Pa.
 Croselmire & Acker, Newark, N. J.
 Goldsmith Bros., 65 Washington, Chicago, Ill.
 Platt, C. S., 31 Gold New York, N. Y.
 Schawel, Jas. & Co., 26 John, New York.

Platinum Sheet & Wire

Baker & Co. (also Iridio Platinum), 408 N. J. R. R. av, Newark, N. J.
 Bishop J. & Co., Malvern, Pa.
 Croselmire & Acker (Sheet or Wire), 253 N. J. R. R. av, Newark, N. J.
 Schawel, J. & Co., 29 John, New York.

Pliers (Fencing)

Cronk & Carrier Mfg. Co., Elmira, N. Y.
 King, J. M. & Co. ("Button's" Wire Cutter & Plier Combined), Waterford, N. Y.

Pliers (Gas)

Ashcroft Mfg. Co., 85 Liberty, New York
ATHOL MACHINE CO., Athol, Mass. (See adv. index end of book)
 Barnett, Oscar Foundry Co. ("Barnett"), Newark, N. J.
BERNZ, OTTO, S 13th, e S Orange av, Newark, N. J. (See adv. index, end of book)
 Billings & Spencer Co., Hartford, Conn.
 Bridgeport Hardware Mfg. Co., Bridgeport, Conn.
 Cincinnati Tool Co., Norwood, Cincinnati, O.
 Clark, A. N. & Son, Plainville, Conn.
 Climax Specialty Co., Seneca Falls, N. Y.
 Columbia Mfg. Co. (Combination Drop Forged), Lafayette, Ind.
 Cronk & Carrier Mfg. Co., Elmira, N. Y.
 Danielson, J. P. & Co. (Combination Drop Forged), Jamestown, N. Y.
 Indianapolis Drop Forging Co. (Combination), Indianapolis, Ind.
 Irving Mfg. & Tool Co. (J. F. McCoy Prop.), 159 Chambers, New York
 Jennings, C. E. Co., 79 Reade, New York
 Johnson, Wm. (Hedenberg Works), Newark, N. J.
 Kilborn & Bishop Co., New Haven, Conn.
 King, J. M. & Co., Waterford, N. Y.
 Kracuter & Co., Newark, N. J.
 Lowentraut, P. Mfg. Co., Newark, N. J.
 Meyers, Frederick J. Mfg. Co., Hamilton, O.
 National Novelty Corp'n, 826 B'way, New York
 Osborne, C. S. & Co., Newark, N. J.
 Peck, Stow & Wilcox Co., Southington, Conn.
 Reed Mfg. Co., Erie, Pa.
 Sargent & Co., New Haven, Conn., & 151 Leonard, N. Y.
 Schollhorn, Wm. Co., New Haven, Conn.
 Smith & Egge Mfg. Co. ("S. & E. M. Co."), Bridgeport, Conn.
 Springfield Machine Screw Co. ("Diamond"), Springfield, Mass.
 Stortz, John & Son, 210 Vine, Philadelphia, Pa.
 Tower & Lyon Co., 95 Chambers, N. Y.
 Utica Drop Forge & Tool Co., Utica, N. Y.
 Vaughn & Bushnell Mfg. Co. ("V. & B." Center), 875 W Carroll av, Chicago, Ill.
 Walworth Mfg. Co., 132 Federal, Boston, Mass.
 Washington Tool Co., Owatonna, Minn.

Pliers (Glass Cutters')

Kracuter & Co., Newark, N. J.
 Stortz, Jno. & Son, 210 Vine, Phila., Pa.

Pliers (Lead Pipe Expanding)

Anderson Coupling Co. ("Anderson"), Portland, Conn.
 Lord, L. L. Co. ("Lord"), Meadville, Pa.

Pliers (Lineman's)

Cincinnati Tool Co. ("Hargrave's"), Cincinnati, O.
 Cronk & Carrier Mfg. Co. (Insulated), Elmira, N. Y.
 Dicke Tool Co., Downers Grove, Ill.
 Irving Mfg. & Tool Co. (J. F. McCoy Co., Prop.), 159 Chambers, New York
 Johns, H. W.-Manville Co. (Insulated), 100 William, New York
 Klein, Mathias & Son, 87 W Van Buren, Chicago, Ill.
 Peck, Stow & Wilcox Co. (Mica Handle), Southington, Conn., & 27 Murray, New York
 Schollhorn, Wm. Co. ("Bernard's"), New Haven, Conn.
 Utica Drop Forge & Tool Co., Utica, N. Y.

Pliers (Piano Makers')

Krauter & Co., Newark, N. J.

Pliers (Wire Cutting)

Barnett, Oscar Foundry Co. ("Barnett"), Newark, N. J.

Pliers & Nippers

(See also Clinchers; also Pliers, Gas)
 Athol Machine Co. (Combination, etc.), Athol, Mass.
 Bayliss Co., 140 Washington, New York
 Barnett, Oscar Foundry Co. (Combination pliers, etc. "Barnett"), Newark, N. J.
BERNZ, OTTO (Cutting, Combination etc.), S 13th e S Orange av, Newark, N. J. (See adv. index, end of book)
 Billings & Spencer Co. (Cutting, Combination, Gas, etc.), Hartford, Conn.
 Blair, E., Bucyrus, O.
 Bonner, C. E. Mfg. Co., Chrisman, Ill.
 Bridgeport Hardware Mfg. Co. (Gas, Flat Nose & Combination Pliers, etc.), Bridgeport, Conn.
 Cincinnati Tool Co. (Combination Pliers, etc.), Norwood, Cincinnati, O.
 Clark, A. N. & Son, Plainville, Conn.
 Cronk & Carrier Mfg. Co. (Combination Pliers), Elmira, N. Y.
 Danielson, J. P. & Co. (Drop Forged Combination Gas Pliers, Wire Cutter & Screw Driver Combined), Jamestown, N. Y.
 Dicke Tool Co. (Combination, Wireman's, etc.), Downers Grove, Ill.
 Irving Mfg. & Tool Co. (J. F. McCoy Prop.) ("Button's" Combination Plier) 159 Chambers, New York
 Kilborn & Bishop Co. ("Forged Combination & Gas Pliers"), New Haven, Conn.
 King, J. M. & Co. (Combination, etc.), Waterford, N. Y.
 Krauter & Co. (Combination, 577 18th av, Newark, N. J.)
 Nettleton Mfg. Co. ("Nettleton"), Middletown, Conn.
 Osborne, C. S. & Co. (Gas), Newark, N. J.
 Peck, Stow & Wilcox Co. (Round & Flat Nose, etc.), Southington, Conn.
 Reed Mfg. Co. (Combination Gas Pliers), Erie, Pa.
 Sayre, L. A. Co. ("Hercules" Fence Pliers), Newark, N. J.
 Schollhorn, Wm. Co. (Pliers & Nippers Combined), New Haven, Conn.
 Smith, Otis A. (Side Cutting), Rockfall, Conn.
 Stortz, John & Sons, 210 Vine, Phila., Pa.
 Utica Drop Forge & Tool Co. (Cutting, etc.), Utica, N. Y.
 Walworth Mfg. Co. (Gas, etc.), 132 Federal, Boston, Mass.

Plow Beams (Steel)

Carnegie Steel Co., Carnegie bldg, Pittsburg, Pa.
 Empire Plow Co., Cleveland, O.
 Hench & Dromgold Co., York, Pa.
 Inland Steel Co., First National Bank bldg, Chicago, Ill.
 Norwalk Steel & Iron Co., Norwalk, O.
 Shunk Plow Co., Bucyrus, O.

Plow Coulters

Avery, B. F. & Sons (Moore), Louisville, Ky.
Belcher & Taylor Agricultural Tool Co., Chicopee Falls, Mass.
Bradley, David Mfg. Co. ("Bradley" Caste), Bradley, Ill.
Cambria Steel Co. (Gautier Dept.), Johnstown, Pa.
Carnegie Plow & Mfg. Co. ("Universal" & "Star"), Carnegie, Pa.
Clayton, John Plow Works ("Universal"), Minneapolis, Minn.
Collins Plow Co., Quincy, Ill.
Eaton Plow Works (V. A. Stookey & Son, Prop.), Pinckneyville, Ill.
Empire Plow Co., Ensley, Ala., & Cleveland, O.
Fuller & Johnson Mfg. Co., Madison, Wis.
Galesburg Coulter-Disc Co. ("Sandoval" "Galesburg"), Galesburg, Ill.
Hartford Plow Works ("Tally Ho"), Hartford, Wis.
Hartman Mfg. Co. ("Acme" Jr. & Sr.), Vincennes, Ind.
Hench & Dromgold Co., York, Pa.
Herschel, R. Mfg. Co., Peoria, Ill.
J. D. Mfg. Co., Jolice, Ill.
Kingman Plow Co. ("Kingman Universal"), Peoria, Ill.
La Crosse Plow Co. ("La Crosse"), La Crosse, Wis.
Minneapolis Plow Works ("Johnson," "Quincy," "Monitor," "Invincible"), Minneapolis, Minn.
Moline Plow Co. ("New Universal" Roller), Moore, C. H., Toledo, O.
Morris Bros. ("Cyclone" Roller & Breaker), Dewitt, Iowa
Morrison Mfg. Co., Ft. Madison, Iowa
Nevin & Wetmore, Lowville, N. Y.
Parlin & Orendorff Co., Canton, Ill.
Rock Island Plow Co. ("Universal," "Rock Island"), Rock Island, Ill.
South Bend Chilled Plow Co., South Bend, Ind.
Sparta Plow Works ("Adjustable"), Sparta, Ill.
Spier, Hugh ("Boss"), Bunker Hill, Ill.
Star Coulter Co. ("Star"), Canton, O.
Syracuse Chilled Plow Co., Syracuse, N. Y.
Thompson, J. & Sons Mfg. Co., Beloit, Wis.
United States Implement Co. ("King"), Canton, O.
Weyburn Co. ("Ideal" Rolling), Rockford, Ill.
WHITMAN & BARNES MFG. CO., Chicago, Ill. (See adv. index & branch offices, end of book)

Plow Mfrs.

Adams, S. & Son, Rome, N. Y.
Allen, S. L. & Co., 1107 Market, Phila., Pa.
Almy, Saml. & Son, Trumansburg, N. Y.
American Plow Co., Madison, Wis.
American Road Machine Co., Kennett Square, Pa.
Ames Plow Co., Quincy Hall, Boston, Mass.
Arnold's, G. W. Son, Ionia, Mich.
Atlanta Agricultural Works, Atlanta, Ga.
Atlanta Plow Co., Atlanta, Ga.
Austin-Bryan Mfg. Co. (Wood & Steel Beam), Birmingham, Ala.
Avery Mfg. Co., Peoria, Ill.
Avery, B. F. & Sons (Chilled Steel), Louisville.
Babcock Mfg. Co., Leonardsville, N. Y.
Barnes Mfg. Co., Lanesboro, Pa.
Bailey, E. Martin, Leroyville, Pa.
Bailey, Nichols & Co., Delavan, Ill.
Ball, Mitchell & Co., Maysville, Ky.
Bay City Plow Works, Bay City, Mich.
Beach Mfg. Co. (Chilled), Lyons, Mich.
Beachtolt, Geo. E., Urhama, O.
Becker, J. E., Appleton, Wis.
Belcher & Taylor Agricultural Tool Co., Chicopee Falls, Mass.
Bement's, E. Sons (Chilled), Lansing, Mich.
Benicia Agricultural Works, Benicia, Cal.
Billup, C. Son & Co., Norfolk, Va.
Blount, Henry F., 1400 Main, Evansville, Ind.
Bostwick, A. & Son, Lapeer, Mich.
Bowers, R. Q. & Sons, Hackettsstown, N. J.
Blount, Henry F., Evansville, Ind.
Bradley, David Mfg. Co. (Chilled), Bradley, Ill.
Bradley, P., Harrisonburg, Va.
Brinly-Hardy Co. (Hand Welded Steel Point), Louisville, Ky.
Brokau, Abram, Bloomington, Ill.
Brookman, A. F., Bay City, Mich.
Brown, Geo. W. & Co., Galesburg, Ill.
Brown, J. I., Woodbury, Pa.
Brown-Manly Plow Co., Malta, O.

Brown Mfg. Co., Zanesville, O.
Bryan Plow Co., Bryan, O.
Buchner & Gibbs Plow Co. (Chilled & Steel), Canton, O.
Buffalo-Pitts Co., Buffalo, N. Y.
Buhr, H. J. & Co., Washington, Mo.
Burch Plow Works Co., Crestline, O.
Burton Handle Co. (Chilled), Burton, O.
Call-Watt Co., Richmond, Va.
Carnegie Plow & Mfg. Co. ("Princess" Road & Rooter), Carnegie, Pa.
Carter, W. D. Mfg. Co., Canisteo, N. Y.
Case, J. I. Plow Works, Racine, Wis.
Cass City Fdy. & Machine Co., Cass City, Mich.
Castile Chilled Plow Co., Castile, N. Y.
Cast Steel Plow Co., Dayton, O.
Caward, R. S., Cresco, Iowa
Champlain Agricultural Works, Champlain, N. Y.
Chattanooga Plow Co (Chilled), Chattanooga, Tenn.
Christiansburg Chilled Plow & Machine Works (Chilled), Christiansburg, Va.
Clipper Chilled Plow Co. (Chilled), Elmira, N. Y.
Clora's Wm. Sons, Rising Sun, Ind.
Collins Co. (Gang & Wheel Walking), Collinsville, Conn.
Collins Plow Co. (Walking or Riding), Quincy, Ill.
Columbia Plow Works (Chilled), Copake Iron Works, N. Y.
Cooper, A. A. Wagon & Buggy Co., Duquaque, Iowa
Crescent Forge & Shovel Co., Havana, Ill.
Curry Plow Co., Wellington, Kan.
Cutaway Harrow Co., Higganum, Conn.
Davidson, A., Foundry Co., Canandaigua, N. Y.
Davis Mfg. Co. (Chilled), Flushing, Mich.
Deats, Hiram, Jr., Pittstown, N. J.
Deere & Co., Moline, Ill.
Donaldson Bros. (Steel & Wood Rim), Mt. Clemeus, Mich.
Drummond Plow Co., Asheville, N. C.
Dutton, E. L. & Co. (Iron & Wood Beam), Cato, N. Y.
Eagle Mfg. Co., Kansas City, Mo.
Eaton Plow Works (V. A. Stookey & Son, Props.), Pinckneyville, Ill.
Eddy, W. Plow Co., Greenwich, N. Y.
Emerson Mfg. Co., Rockford, Ill.
Empire Plow Co., Ensley, Ala., & Cleveland, O.
Eureka Plow Co. (Walking), Utica, N. Y.
Fair & Sons, Blaine, Mich.
Fairfield Plow Works, North Fairfield, O.
Farquhar, A. B. Co. (Chilled), York, Pa.
Fonda, F. A., East Galway, N. Y.
Fuller & Johnson Mfg. Co., Madison, Wis.
Gale Mfg. Co. (3-Wheel Sulky, 3-Wheel Gang, Riding, & One, Two & Three-Horse Walking), Albion, Mich.
Galesburg Coulter-Disc Co., Galesburg, Ill.
Gelser Mfg. Co., Waynesboro, Pa.
Geneva Tool Co., Geneva, O.
Gesley Mfg. Co., Beloit, Wis.
Goddard, Silas & Son (Steel & Iron), South Durham, Me.
Gowanda Agricultural Works ("Steel"), Gowanda, N. Y.
Grand Delour Plow Co. (Listing), Dixon, Ill.
Greenville Implement Co., Greenville, Mich.
Hall, Jas. H. Plow Co., Maysville, Ky.
Hamackek, Frank, Kewaunee, Wis.
Hancock Disk Plow Co., Alton, Ill.
Hancock, M. T., Chattanooga, Tenn.
Happgood Plow Co., Alton, Ill.
Harriman Plow & Handle Co., Harriman, Tenn.
Hartford Plow Works, Hartford, Wis.
Hartig-Becker Plow Co., Evansville, Ind.
Hauge, G. A., Albert Lea, Minn.
Hench & Dromgold Co. (Inc.), York, Pa.
Hillsdale Plow Co., Hillsdale, N. Y.
Hildreth, G. W. & Co. (Scotch), Lockport, N. Y.
Houser & Haines Mfg. Co., Stockton, Cal.
Hulbert, Geo. A., Old Catham, N. Y.
Hussey Plow Co., N. Berwick, Me.
Implement Mfg. Co., Davenport, Iowa
Indiana Road Machine Co., Ft. Wayne, Ind.
Ironton Disc Plow Co., Ironton, O.
Janesville Machine Co., Janesville, Wis.
Johnson, Jno. S., Waukon, Iowa
Johnson & Smith Co., Austin, Minn.
Kaster, P. M., Rimersburg, Wis.
Kelly, G. A. Plow Co., Longview, Texas
Kennehan, P. E., Brasher Falls, N. Y.
Kerns, H. O., Sutherland, Va.
Keystone Farm Machine Co., York, Pa.
Kingman Plow Co., Peoria, Ill.
Knutson, C., Berlin, Wis.
La Crosse Plow Co., La Crosse, Wis.
Lee, R. E., Almont, Mich.
Lehr Agricultural Co., Fremont, O.
Leroy Plow Co., Leroy, N. Y.
Little, O. J., Deckertown, N. J.
Logan Foundry & Machine Works, Logan, O.
Long & Allstatler Co., Hamilton, O.
Look & Lincoln, Marion, Va.

Loose, Samuel A., Hamburg, Pa.
Lovejoy, Henry H. & Son, Cambridge, N. Y.
Luthy & Co., Peoria, Ill.
McDonnell, John & Son, Jackson, Miss.
Marietta Mfg. Co., Marietta, O.
Marsh, E. B. Bro. & Co., Snyder'sville, Pa.
Martinsburg Foundry, Martinsburg, Pa.
Matteson & Williamson Mfg. Co., Stockton, Cal.
May, Wm. H. & Son, Alexandria, Va.
Merrill, F. C., South Paris, Me.
Midland Mfg. Co., Fariko, Mo.
Minneapolis Plow Works, Minneapolis, Minn.
Minnesota Moline Plow Co., Minneapolis, Minn.
Mishawaka Plow Co., Mishawaka, Ind.
Moline Plow Co., Moline, Ill.
Monmouth Plow Co., Monmouth, Ill.
Moore Plow & Implement Co. (Walking), Greenville, Mich.
Morrison Mfg. Co., Ft. Madison, Ia.
Mt. Pleasant Plow Co., Mt. Pleasant, Mich.
Mountville Mfg. Co., Mountville, Pa.
Munnsville Plow Co., Munnsville, N. Y.
Murkland, J. W., Barton, Vt.
Neosho Chilled Plow Works, Neosho, Mo.
Nevins Iron Works, Lowville, N. Y.
Oldendorph, Jacob (Iron Beam), Waterloo, Ill.
Oliver Rake Co., Dayton, O.
Ohio Cultivator Co., Bellevue, O.
Oyler Plow Co., Barherton, O.
Painter & Frankland, Albion, Ill.
Parlin & Orendorff Co., Canton, Ill.
Parrott Mfg. Co., Dayton, O.
Pattce Plow Co., Monmouth, Ill.
Peek, S. H. (Steel), East Aurora, N. Y.
Pekin Plow Co., Pekin, Ill.
Peru Plow & Wheel Co., Peru, Ill.
Puddock & Lermont, Harbor Beach, Mich.
Racine-Sattley Co., Springfield, Ill.
Reeves & Co. (Inc.), Columbus, Ind.
Richmond Plow Co., Richmond, Ind.
Ripson, Wm. & Son, Youngstown, N. Y.
Robinson Chilled Plow Co., Canandaigua, N. Y.
Rockford Mfg. Co., Rockford, Ill.
Rock Island Plow Co. (Chilled & Steel), Rock Island, Ill.
Ross, A. M. & Co., Ilion, N. Y.
Rowell, I. B. & Co. (Riding or Walking), Menominee Falls, Wis.
Roy Plow Co., Paragould, Ark.
St. Joseph Mfg. Co. (Chilled & Steel), Mishawaka, Ind.
St. Joseph Plow Co., St. Joseph, Mo.
Sellers, Edw., Oakhall Station, Pa.
Shangle, John R., Hightstown, N. J.
Shaw, H. C. Co., Stockton, Cal.
Sioux Falls Plow Co., Sioux Falls, S. D.
Shunk Plow Co., Bucyrus, O.
Smalley Mfg. Co., Manitowoc, Wis.
Smith-Amann Plow Co., Columbus, O.
Smith & Sons Mfg. Co., Kansas City, Mo.
South Bend Chilled Plow Co. (Chilled), South Bend, Ind.
South Bend Foundry Co., South Bend, Ind.
Southern Agricultural Works Co. (Chilled), Atlanta, Ga.
Southern Plow Co., Columbus, Ga.
Southern Rock Island Plow Co., Rock Island, Ill.
Spalding-Robbins Disc Plow Co., San Francisco, Cal.
Sparta Plow Works, Sparta, Ill.
Speer, A. & Sons, Pittsburg, Pa.
Spieth, Gottlieb F., Des Moines, Ia.
Star Mfg. Co., Carpentersville, Ill.
Stark's Dixie Plow Works, Richmond, Va.
Stehn Mfg. Co., Sheboygan, Wis.
Stoughton Wagon Co., Stoughton, Wis.
Steward, A. T. Co., Carnegie, Pa.
Stroker, Fritz C., Olney, Mo.
Sturgis, W. B. & Son, Shelbyville, Ill.
Swinton & Co., Port Jervis, N. Y.
Syracuse Chilled Plow Co. (Chilled), Syracuse, N. Y.
Thompson, J. & Sons Mfg. Co. (Chilled), Beloit, Wis.
Toledo Plow Co., Toledo, O.
Tomasek & Nekola, La Crosse, Wis.
Towers & Sullivan Mfg. Co., Rome, Ga.
Varney, J. B., Plow Co., North Berwick, Me.
Volunteer Disc Plow Co., Chattanooga, Tenn.
Vulcan Plow Co. (Chilled & Steel), Evansville, Ind.
Wagner Plow Co., Indianapolis, Ind.
Walker-Sims Plow Co., Atlanta, Ga.
Watkins Chilled Plow Co. (Chilled), Watkins, N. Y.
Watts Plow Co., Richmond, Va.
Wayne Agricultural Works, Goldsboro, N. C.
Wells, H. B. & Sons, Ithaca, N. Y.
Wells-Jones Plow Co., Jackson, Tenn.
Western Wheeled Scraper Co., Aurora, Ill.
White, S. R. Bro., Norfolk, Va.
Whitehurst, R. W. Co., Norfolk, Va.
Whitman, E. B. & Co. (Chilled), Baltimore, Md.
Wiard Plow Co. (Chilled & Steel), Batavia, N. Y.
Wilder-Strong Implement Co., Monroe, Mich.
Wolverine Plow Co., Kalamazoo, Mich.

Plowing Outfits (Steam)

Geiser Mfg. Co., Waynesboro, Pa.

Plows (Asparagus)

Shangle, Jno. R., Hightstown, N. J.

Plows (Breaking)

American Road Machine Co., Kennett Square, Pa.
 Avery, B. F. & Sons, Louisville, Ky.
 Bement's, E. Sons, Lansing, Mich.
 Bradley, David Mfg. Co., Bradley, Ill.
 Brinly-Hardy Co., Louisville, Ky.
 Brown, Geo. W. & Co. (Rod), Galesburg, Ill.
 Brown-Manly, Malta, O.
 Bucher & Gibbs Plow Co. (Chilled), Canton, O.
 Busch Plow Works Co., Crestline, O.
 Case, J. I. Plow Works, Racine, Wis.
 Cbattanooaga Plow Co., Cbattanooaga, Tenn.
 Clipper Plow Co., Defiance, O.
 Deere & Co., Moline, Ill.
 Eagle Mfg. Co. (Middle Buster), Kansas City, Mo.
 Emerson Mfg. Co., Rockford, Ill.
 Fuller & Johnson Mfg. Co., Madison, Wis.
 Gale Mfg. Co., Albion, Mich.
 Grand Detour Plow Co., Dixon, Ill.
 Hench & Bromgold Co., York, Pa.
 Hoppood Plow Co., Alton, Ill.
 Hortig-Becker Plow Co., Evansville, Ind.
 Johnson & Smith Co. (Grub & Sod), Austin, Minn.
 Kingman Plow Co., Peoria, Ill.
 La Crosse Plow Co., La Crosse, Wis.
 Lanfersieck-Grothaus Co., New Bremen, O.
 Lee Bros., Watertown, S. Dak.
 Lehr Agricultural Co., Fremont, O.
 Messinger Mfg. Co., Tatamy, Pa.
 Minneapolis Plow Works, Minneapolis, Minn.
 Moline Plow Co., Moline, Ill.
 Morrison Mfg. Co. (Middle Breakers), Ft. Madison, Ia.
 Oliver Chilled Plow Works, South Bend, Ind.
 Parlin & Orendorff Co. (Canton), Canton, Ill.
 Parrott Mfg. Co., Dayton, O.
 Peru Plow & Wheel Co. (Tongue & Tongueless), Peru, Ill.

Richmond Plow Co., Richmond, Ind.
 Rock Island Plow Co., Rock Island, Ill.
 St. Joseph Mfg. Co., Mishawaka, Ind.
 St. Joseph Plow Co., St. Joseph, Mo.
 Sattley Mfg. Co., Springfield, Ill.
 Schubert, F. W. (Also Wagons), Brenham, Tex.
 Shunk Plow Co. (Steel, Street, etc.), Bucyrus, O.
 Smith-Amann Plow Co. (Combination), Columbus, O.
 South Bend Chilled Plow Co., South Bend, Ind.
 Southern Agricultural Works Co., Atlanta, Ga.
 Southern Plow Co., Columbus, Ga.
 Sparta Plow Works, Sparta, Ill.
 Star Mfg. Co., Carpentersville, Ill.
 Thompson, J. & Sons Mfg. Co., Beloit, Wis.
 Toledo Plow Co., Toledo, O.
 Vulcan Plow Co., Evansville, Ind.
 Wagner Plow Co. (Chilled & Steel), Indianapolis, Ind.
 White, S. R. & Bro. (Grub), Norfolk, Va.

Plows (Clay)

Central Iron Works (For Brick Mfrs.), Quincy, Ill.
 Fernholtz Brick Machinery Co., Boyle av & Old Manchester rd. St. Louis, Mo.

Plows (Contractors')

ACME ROAD MACHINERY CO., Frankfort, N. Y. (See adv. index, end of book)
 American Road Machine Co., Kennett Square, Pa.
 American Steel Scraper Co. (Road), Sidney, O.
 Ames Plow Co., Quincy Hall, Boston, Mass.
 Austin Mfg. Co., Manhattan bldg, Chicago, Ill.
 Avery, B. F. & Sons, Louisville, Ky.
 Blount, Henry F. (Railroad), Evansville, Ind.
 Bradley, David Mfg. Co., Bradley, Ill.
 Brinly-Hardy Co., 344 E Main, Louisville, Ky.
 Bucher & Gibbs Plow Co., Canton, O.
 Carnegie Plow & Mfg. Co. ("Princess" Rooter & Road), Carnegie, Pa.
 Case, George F., Stanton, Mich.
 Case, J. I. Plow Works, Racine, Wis.
 Climax Road Machine Co., Maratbon, N. Y.
 Clipper Plow Co. (Road), Defiance, O.
 Collins Plow Co. (Boss & Giant, 2 to 12 Horses), Quincy, Ill.
 Contractors' Plant Mfg. Co., 129 Erie, Buffalo, N. Y.
 Deere & Co., Moline, Ill.

FAIRBANKS, MORSE & CO. (Grading, etc.), Franklin & Monroe, Chicago, Ill. (See adv. index & branch offices, end of book)

Fresno Agricultural Works, Fresno, Cal.
 Fuller & Johnson Mfg. Co., Madison, Wis.
 Gale Mfg. Co. (Road & Railroad), Albion, Mich.
 Good Roads Machinery Co., Kennett Square, Pa.
 Gowanda Agricultural Works (Grading), Gowanda, N. Y.
 Heller, P. J., Montclair, N. J.
 Hildreth, G. W. & Co., Lockport, N. Y.
 Indiana Road Machine Co., Fort Wayne, Ind.
 Johnson & Smith Co. (Railroad, etc.), Austin, Minn.
 Kilbourne & Jacobs Mfg. Co., Columbus, O.
 Kingman Plow Co., Peoria, Ill.
 Lovejoy, Henry H. & Son, Cambridge, N. Y.
 Moline Plow Co., Moline, Ill.
 Minneapolis Plow Works, Minneapolis, Minn.
 Morrison Mfg. Co., Ft. Madison, Iowa
 Oliver Chilled Plow Co., South Bend, Ind.
 Parlin & Orendorff Co., Canton, Ill.
 Port Huron Engine & Thresher Co., Port Huron, Mich.

Rock Island Plow Co., Rock Island, Ill.
 St. Joseph Plow Co., St. Joseph, Mo.
 SCHOLL, JULIAN & CO., 126 Liberty, New York. (See adv. index, end of book)
 SHAW, WILLIS, 171 LaSalle, Chicago, Ill. (See adv. index, end of book)
 Shunk Plow Co., Bucyrus, O.
 Sidney Steel Scraper Co., Sidney, O.
 Slusser-McLean Scraper Co. (Rooter), Sidney, O.
 Smith & Sons Mfg. Co., Lydia & Guinotte av, Kansas City, Mo.
 Stewart, A. T. Co., Carnegie, Pa.
 Strain, J. H. Co., 12 Elm, New York
 Sturgis, W. B. & Son (Road), Shelbyville, Ind.
 Syracuse Chilled Plow Co., Syracuse, N. Y.
 Thompson, J. & Sons Mfg. Co., Beloit, Wis.
 Vulcan Plow Co. (Road), Evansville, Ind.
 Western Wheeled Scraper Co. (Rooter & Grading), Aurora, Ill.
 Whiteburst, R. W. Co., Norfolk, Va.
 Wiard Plow Co., Batavia, N. Y.

Plows (Corn)

Desbay, D. H. (Arch Top Double), Elysburg, Pa.

Plows (Disc or Rotary)

Atlanta Agricultural Works, Atlanta, Ga.
 Avery, B. F. & Sons, Louisville, Ky.
 Bement's, E. Sons, Lansing, Mich.
 Benicia Agricultural Works, Benicia, Cal.
 Bradley, David Mfg. Co., Bradley, Ill.
 Cbattanooaga Plow Co., Cbattanooaga, Tenn.
 Cutaway Harrow Co. (Disc Sulky), Higganum, Conn.
 Deere & Co., Moline, Ill.
 Eagle Mfg. Co., Kansas City, Mo.
 Emerson Mfg. Co., Rockford, Ill.
 Hancock Disc Plow Co., Alton, Ill.
 Hancock, M. T. (Disc), Cbattanooaga, Tenn.
 Houser & Haines Mfg. Co., Stockton, Cal.
 Ironton Disc Plow Co., Ironton, O.
 Kingman Plow Co., Peoria, Ill.
 Long & Allstatter ("Hamilton," "Hancock" Disc), Hamilton, O.
 Moline Plow Co. (Rotary), Moline, Ill.
 Parlin & Orendorff Co., Canton, Ill.
 Racine-Sattley Co., Springfield, Ill.
 Rock Island Plow Co., Rock Island, Ill.
 Sanders, Newell Plow Co., Cbattanooaga, Tenn.
 South Bend Chilled Plow Co., South Bend, Ind.
 Southern Agricultural Works, Atlanta, Ga.
 Spalding-Robbins Disc Plow Co. ("S-R" Gang), San Francisco, Cal.
 Texas Disc Plow Co., Dallas, Tex.
 Volunteer Disc Plow Co., Cbattanooaga, Tenn.

Plows (Ditching)

American Road Machine Co., Kennett Square, Pa.
 Ames Plow Co., Quincy Hall, Boston, Mass.
 Deere & Co., Moline, Ill.
 Hench & Dromgold Co., Inc., York, Pa.
 Larimer Mfg. Co., Latrobe, Pa.
 Munnsville Plow Co., Munnsville, N. Y.
 Parlin & Orendorff Co., Canton, Ill.
 St. Joseph Plow Co., St. Joseph, Mo.

Plows (Gang)

Avery, B. F. & Sons, Louisville, Ky.
 Bement's, E. Sons, Lansing, Mich.
 Benicia Agricultural Works, Benicia, Cal.
 Bradley, David Mfg. Co., Bradley, Ill.
 Brown, George W. & Co., Galesburg, Ill.
 Bucher & Gibbs Plow Co. (Walker & Riding), Canton, O.

Case, J. I. Plow Works, Racine, Wis.
 Cass City Foundry Co., Cass City, Mich.
 Coffeyville Implement & Mfg. Co., Coffeyville, Kan.
 Collins Co., Collinsville, Conn.
 Collins Plow Co., Quincy, Ill.
 Cutaway Harrow Co. (Disc), Higganum, Conn.
 Deere & Co. (Disc), Moline, Ill.
 Donaldson Bros., Mt. Clemens, Mich.
 Emerson Mfg. Co., Rockford, Ill.
 Farquhar, A. B. Co., York, Pa.
 Fuller & Johnson Mfg. Co., Madison, Wis.
 Gale Mfg. Co. ("Gale," "Daisy," "Great West"), Albion, Mich.
 Galesburg Coulter-Disc Co. ("Brown"), Galesburg, Ill.
 Grand Detour Plow Co., Dixon, Ill.
 Greenville Implement Co. (Walking), Greenville, Mich.

Hancock Disc Plow Co. ("Hancock"), Alton, Ill.
 Hapgood Plow Co., Alton, Ill.
 Janesville Machine Co., Janesville, Wis.
 Keystone Iron Works, Los Angeles, Cal.
 Kingman Plow Co., Peoria, Ill.
 Kingman & Co., Peoria, Ill.
 La Crosse Plow Co., La Crosse, Wis.
 Matteson & Williamson Mfg. Co. (Reversible), Stockton, Cal.

Minneapolis Plow Works, Minneapolis, Minn.
 Moline Plow Co., Moline, Ill.
 Monmouth Plow Co., Monmouth, Ill.
 Moore Plow & Implement Co., Greenville, Mich.
 Morrison Mfg. Co., Ft. Madison, Ia.
 Oliver Chilled Plow Works, South Bend, Ind.
 Parlin & Orendorff Co., Canton, Ill.
 Pekin Plow Co., Pekin, Ill.
 Peppler, Thomas, Hightstown, N. J.
 Peru Plow & Wheel Co., Peru, Ill.
 Racine-Sattley Co., Springfield, Ill.
 Rockford Mfg. Co. ("Farm Queen," "Rockford"), Rockford, Ill.

Rock Island Plow Co., Rock Island, Ill.
 Rowell, I. B. Co., Menominee Falls, Wis.
 Shangle, John R., Hightstown, N. J.
 Shaw, H. C. Co., Stockton, Cal.
 South Bend Chilled Plow Co. (Disc), South Bend, Ind.
 Sparta Plow Works, Sparta, Ill.
 Syracuse Chilled Plow Co., Syracuse, N. Y.
 Thompson, J. & Sons Mfg. Co., Beloit, Wis.
 Toledo Plow Co., Toledo, O.
 Wilder-Strong Implement Co., Monroe, Mich.

Plows (Gang, Steam)

Avery Mfg. Co. ("Avery"), Peoria, Ill.
 Benicia Agricultural Works, Benicia, Cal.
 Deere & Co., Moline, Ill.
 Geiser Mfg. Co., Waynesboro, Pa.
 Hancock Disc Plow Co. ("Hancock"), Alton, Ill.
 Milton Garvin Steam Plow Co., Stafford, Kan.
 Parlin & Orendorff Co., Canton, Ill.
 Peru Plow & Wheel Co., Peru, Ill.
 Spalding-Robbins Disc Plow Co. ("S-R," Disc), San Francisco, Cal.
 Syracuse Chilled Plow Co., Syracuse, N. Y.
 Wiard Plow Co., Batavia, N. Y.

Plows (Gang, Wheel)

Avery, B. F. & Sons, Louisville, Ky.
 Deere & Co., Moline, Ill.
 Hapgood Plow Co., Alton, Ill.
 Houser & Haines Mfg. Co. ("Stockton"), Stockton, Cal.
 Keystone Farm Machine Co., York, Pa.
 Moline Plow Co., Moline, Ill.
 Parlin & Orendorff Co., Canton, Ill.
 Rock Island Plow Co., Rock Island, Ill.
 Shaw, H. C. Co. ("Stockton Reversible"), Stockton, Cal.
 Southern Agricultural Works Co., Atlanta, Ga.
 Syracuse Chilled Plow Co., Syracuse, N. Y.

Plows (Garden)

Allen, S. L. & Co., 1017 Market, Pella, Pa.
 Ames Plow Co., Quincy Hall, Boston, Mass.
 Avery, B. F. & Sons, Louisville, Ky.
 Bateman Mfg. Co., Grenloch, N. J.
 Bissell, T. M. Plow Co., Eaton Rapids, Mich.
 Black, Geo. H., Buchanan, Mich.
 Brinly-Hardy Co., Louisville, Ky.
 Bucher & Gibbs Plow Co., Canton, O.
 Case, J. I. Plow Works, Racine, Wis.
 Crescent Forge & Shovel Co. (Wheel), Havana, Ill.
 Deere & Co., Moline, Ill.
 Descher, H. P. Co., Hamilton, O.
 Dutton, E. Q. & Co., Cato, N. Y.
 Fuller & Johnson Mfg. Co., Madison, Wis.
 Gale Mfg. Co., Albion, Mich.
 Morrison Mfg. Co., Madison, Ia.
 Monmouth Plow Co., Monmouth, Ill.

Ohio Implement Co. ("Climax"), Bowling Green, O.
 Parlin & Orendorff Co., Canton, Ill.
 Richmond Plow Co., Richmond, Ind.
 Rock Island Plow Co., Rock Island, Ill.
 Sears, Albert H., Plano, Ill.
 Southern Agricultural Works Co., Atlanta, Ga.
 Southern Plow Co., Columbus, Ga.
 Syracuse Chilled Plow Co., Syracuse, N. Y.
 Tenney & Sicking, Inc. (Wheel), Decatur, Ill.
 Whitehurst, R. W. Co., Norfolk, Va.
 Wiard Plow Co., Batavia, N. Y.

Plows (Grooving)

Doscher Plane & Tool Co., Saugatuck, Conn.
 Ohio Tool Co. (Panel, etc.), Columbus, O.
 Sandusky Tool Co. (Panel Plows, Plow Arms, etc.), Sandusky, O.

Plows (Hop)

Adams, S. & Son, Rome, N. Y.
 Deere & Co., Moline, Ill.
 Dutton, E. Q. & Co., Cato, N. Y.
 Gale Mfg. Co., Albion, Mich.
 Gowanda Agricultural Works, Gowanda, N. Y.
 Robinson Chilled Plow Co., Canandaigua, N. Y.
 Syracuse Chilled Plow Co., Syracuse, N. Y.
 Whitehurst, R. W. & Co., Norfolk, Va.

Plows (Ice)

Ames Plow Co., Quincy Hall, Boston, Mass.
 Bodenstein, J. G. & Co., Staatsburg, N. Y.
 Dornell, H. F. & Co., Athens, N. Y.
 Donaldson Saw Co., Rock Island, Ill.
 Dorsch, Jno. & Sons, Milwaukee, Wis.
 Gerlach, Peter Co., 1708 Columbus rd., Cleveland, O.
 Gifford-Wood Co., Hudson, N. Y., & Arlington, Grutman, G. B., Branchville, Conn.
 Hiles, C. A. & Co., 14th & Western av., Chicago, Ill.
 Stevens, Benj. A. Co., Toledo, O.
 Woodhouse, J. S., 191 Water, N. Y.

Plows (Locomotive)

Western Wheeled Scraped Co., Aurora, Ill.

Plows (Potato)

Brinly-Hardy Co., Louisville, Ky.
 Deere & Co., Moline, Ill.
 Gale Mfg. Co., Albion, Mich.
 Hartig-Becker Plow Co., Evansville, Ind.
 Hench & Dromgold Co., Inc., York, Pa.
 Parlin & Orendorff Co., Canton, Ill.
 Rock Island Plow Co., Rock Island, Ill.
 Whitehurst, R. W. Co., Norfolk, Va.

*Plows (Rooter)

SCHOLL, JULIAN & CO., 126 Liberty,
 New York. (See adv. index and branch offices, end of book)

Plows (Shovel)

Austin-Bryan Mfg. Co., Birmingham, Ala.
 Avery, B. F. & Sons (With Jumping Coulters), Louisville, Ky.
 Ball, Mitchell & Co., Maysville, Ky.
 Belcher & Taylor Agricultural Tool Co., Chicopee Falls, Mass.
 Bement's, E. Sons, Lansing, Mich.
 Benicia Agricultural Works, Benicia, Cal.
 Blount, Henry F., Evansville, Ind.
 Bradley, David Mfg. Co., Bradley, Ill.
 Brinly-Hardy Co., Louisville, Ky.
 Bristol & Gale Co., Chicago, Ill.
 Brown, Geo. W. & Co., Galesburg, Ill.
 Brown-Manley Plow Co., Malta, O.
 Brown Mfg. Co., Zanesville, O.
 Burton Handle Co. (Extension Wing), Burton, O.
 Case, J. I. Plow Works, Racine, Wis.
 Chattanooga Plow Co., Chattanooga, Tenn.
 Clipper Plow Co., Defiance, O.
 Clore's, Wm. Sons, Elsing Sun, Md.
 Deere & Co., Moline, Ill.
 Donaldson Bros., Mt. Clemens, Mich.
 Drummond Plow Co. (Reversible Double Shovel), Asheville, N. C.
 Dutton, E. Q. & Co., Cato, N. Y.
 Eagle Mfg. Co., Kansas City, Mo.
 Eddy, W. Plow Co., Greenville, N. Y.
 Emerson Mfg. Co. Co., Rockford, Ill.
 Empire Plow Co., Ensley, Ala., & Cleveland, O.
 Farquhar, A. B. Co., Ltd., York, Pa.
 Fuller & Johnson Mfg. Co., Madison, Wis.

Gale Mfg. Co. ("New Era," "Gale," Single & Double Shovel, also Wing Shovel), Albion, Mich.

Geneva Tool Co., Geneva, O.
 Gowanda Agricultural Works, Gowanda, N. Y.
 Hartig-Becker Plow Co., Evansville, Ind.
 Hench & Dromgold Co., Inc., York, Pa.
 Howland Mfg. Co., Pontiac, Mich.
 Johnson & Smith, Austin, Minn.
 Keystone Farm Machine Co., York, Pa.
 Kingman Plow Co., Peoria, Ill.
 Lehr Agricultural Co., Fremont, O.
 Lovejoy, H. H. & Son, Cambridge, N. Y.
 Moline Plow Co. (Single & Double), Moline, Ill.
 Moore Plow & Implement Co., Greenville, Mich.
 Morrison Mfg. Co., Fort Madison, Ia.
 Munnsville Plow Co., Munnsville, N. Y.
 Ohio Cultivator Co., Bellevue, O.
 Oliver Chilled Plow Works, South Bend, Ind.
 Parlin & Orendorff Co., Canton, Ill.
 Peek, S. H., East Ansonia, N. Y.
 Peru Plow & Wheel Co. (Single & Double), Reeves & Co. (Inc.), Columbus, Ind. Peru, Ill.
 Richmond Plow Co., Richmond, Ind.
 Rock Island Plow Co. (Single & Double), Rock Island, Ill.

St. Joseph Mfg. Co., Mishawaka, Ind.
 St. Joseph Plow Co., St. Joseph, Mo.
 Schoepflin, Chas., Gardenville, N. Y.
 Shumaker Bros. & Nixon, Castle, N. Y.
 Shunk Plow Co. (Double & Single Shovel), Bucyrus, O.
 South Bend Chilled Plow Co., South Bend, Ind.
 Southern Agricultural Works Co., Atlanta, Ga.
 Southern Plow Co., Columbus, Ga.
 Sparta Plow Works, Sparta, Ill.
 Syracuse Chilled Plow Co. (Blades & Wings of Steel), Syracuse, N. Y.
 Thompson, J. & Son Mfg. Co., Beloit, Mich.
 Toledo Plow Co., Toledo, O.
 Vulcan Plow Co., Evansville, Ind.
 White, S. R. & Bro., Norfolk, Va.

Plows (Snow)

(See also Street Railway Sweeping Machines)
 Brill, J. G. Co. (Nose & Shear Board Type), 62d & Woodland av., Phila., Pa.
 Buckley, T. H. Car Mfg. Co., Worcester, Mass.
GENERAL ELECTRIC CO., Schenectady, N. Y., & 44 Broad, New York. (See adv. index & branch offices, end of book)
 Grothe, John J. (Electric Railway), Woburn, Mass.
 Indiana Road Machine Co. (Street R. R.), Ft. Wayne, Ind.
 McGuire-Cummings Mfg. Co. (Street Railway), 122 N Sangamon, Chicago
 N. Y. Car & Truck Co., 29 B'way, New York
 Portland Co., 58 Fore, Portland, Me.
 Rotary Snow Plow Co. (Rotary), Paterson, N. J.
 Russell Car & Snow Plow Co., Ridgeway, Pa.
 Smith & Wallace (Electric), Woburn, Mass.
 Stephenson, John Co. (Street Railway), Elizabeth, N. J., & 15 Park row, New York
 Wason Mfg. Co. (Electric), Springfield, Mass.

Plows (Sub-Soil)

Ames Plow Co., Quincy Hall, Boston, Mass.
 Avery, B. F. & Sons, Louisville, Ky.
 Beach Mfg. Co., Lyons, Mich.
 Blount, Henry F., Evansville, Ind.
 Bradley, David Mfg. Co., Bradley, Ill.
 Brinly-Hardy Co., Louisville, Ky.
 Bucher & Gibbs Plow Co., Canton, O.
 Case, J. I. Plow Works, Racine, Wis.
 Deere & Co., Moline, Ill.
 Farquhar, A. B. Co., Ltd., York, Pa.
 Fuller & Johnson Mfg. Co., Madison, Wis.
 Gale Mfg. Co. ("Gale," Steel), Albion, Mich.
 Grand Detour Plow Co., Dixon, Ill.
 Hall, Jas. H. Plow Co., Maysville, Ky.
 Moline Plow Co., Moline, Ill.
 Morrison Mfg. Co., Ft. Madison, Ia.
 Munnsville Plow Co., Munnsville, N. Y.
 Oliver Chilled Plow Works, South Bend, Ind.
 Parlin & Orendorff Co., Canton, Ill.
 Peru Plow & Wheel Co., Peru, Ill.
 Rock Island Plow Co., Rock Island, Ill.
 South Bend Chilled Plow Co., South Bend, Ind.
 Syracuse Chilled Plow Co., Syracuse, N. Y.
 Wiard Plow Co., Batavia, N. Y.

Plows (Sulky, Reversible)

Belcher & Taylor Agricultural Tool Co., Chicopee Falls, Mass.
 Chipper Chilled Plow Co., Elmira, N. Y.
 Cutaway Harrow Co. (Disc), Higganum, Conn.
 Syracuse Chilled Plow Co., Syracuse, N. Y.

Plows (Sulky, Riding or Wheel)

Avery, B. F. & Sons (Sulky, etc.), Louisville, Ky.
 Bateman Mfg. Co., Grenloch, N. J.
 Belcher & Taylor Agricultural Tool Co. (Reversible Sulky), Chicopee Falls, Mass.
 Bement's, E. Sons, Lansing, Mich.
 Benicia Agricultural Works, Benicia, Cal.
 Blount, Henry F. (Sulky), Evansville, Ind.
 Bradley, David Mfg. Co., Bradley, Ill.
 Brown, Geo. W. & Co., Galesburg, Ill.
 Bucher & Gibbs Plow Co., Canton, O.
 Case, J. I. Plow Works, Racine, Wis.
 Cast Steel Plow Co., Dayton, O.
 Coffeyville Implement & Mfg. Co., Coffeyville, Kan.
 Collins Plow Co., Quincy, Ill.
 Deere & Co., Moline, Ill.
 Eagle Mfg. Co., Kansas City, Mo.
 Emerson Mfg. Co. (Sulky), Rockford, Ill.
 Farquhar, A. B. Co., York, Pa.
 Fuller & Johnson Mfg. Co., Madison, Wis.
 Gale Mfg. Co., Albion, Mich.
 Galesburg Coulter Disc Co. ("Brown"), Galesburg, Ill.

Grand-Detour Plow Co., Dixon, Ill.
 Hancock Disc Plow Co. ("Hancock"), Alton, Ill.
 Hapgood Plow Co., Alton, Ill.
 Hench & Dromgold Co. (Inc.), York, Pa.
 Implement Mfg. Co., Davenport, Ia.
 Janesville Machine Co., Janesville, Wis.
 Kingman Plow Co. (Sulky, etc.), Peoria, Ill.
 La Cross Plow Co., La Crosse, Wis.
 Long & Allstatter Co. (Walking or Riding Mould Board), Hamilton, O.

Lutley & Co., Peoria, Ill.
 Minneapolis Plow Works, Minneapolis, Minn.
 Moline Plow Co., Moline, Ill.
 Monmouth Plow Co., Monmouth, Ill.
 Morrison Mfg. Co., Ft. Madison, Ia.
 Oliver Chilled Plow Works, South Bend, Ind.
 Parlin & Orendorff Co., Canton, Ill.
 Pekin Plow Co., Pekin, Ill.
 Peru Plow & Wheel Co., Peru, Ill.
 Racine-Sattley Co., Springfield, Ill.
 Robinson Chilled Plow Co., Canandaigua, N. Y.
 Rockford Mfg. Co. ("Farm King," "Rockford," "Rockford, Jr.," "Rockford King"), Rockford, Ill.

Rock Island Plow Co., Rock Island, Ill.
 St. Joseph Mfg. Co., Mishawaka, Ind.
 St. Joseph Plow Co., St. Joseph, Mo.
 South Bend Chilled Plow Co., South Bend, Ind.
 Sparta Plow Works, Sparta, Ill.
 Syracuse Chilled Plow Co., Syracuse, N. Y.
 Thompson, J. & Sons Mfg. Co., Beloit, Wis.
 Toledo Plow Co., Toledo, O.
 Vulcan Plow Co. (Sulky), Evansville, Ind.
 Wiard Plow Co., Batavia, N. Y.

Plows (Swivel, Reversible & Hill-side)

Ames Plow Co. (Swivel and Hillside), Quincy Hall, Boston, Mass.
 Avery, B. F. & Sons, Louisville, Ky.
 Ball, Mitchell & Co. (Hillside), Maysville, Ky.
 Belcher & Taylor Agricultural Tool Co., Chicopee Falls, Mass.
 Bissell, T. M. Plow Co. (Hillside), Eaton Rapids, Mich.
 Brinly-Hardy Co. (Hillside), Louisville, Ky.
 Bucher & Gibbs Plow Co. (Hillside), Canton, O.
 Columbia Plow Works, Copake Iron Works, N. Y.
 Cowley, W. A. & Son (Reversible), Stamford, N. Y.
 Deere & Co., Moline, Ill.
 Eddy, W. Plow Co. (Hillside & Swivel), Greenwich, N. Y.
 Gowanda Agricultural Works, Gowanda, N. Y.
 Hall, Jas. H. Plow Co. (Hillside), Maysville, Ky.
 Hench & Dromgold Co., Inc. (Hillside), York, Pa.
 Leroy Plow Co. (Hillside & Flatland), Leroy, N. Y.
 Moline Plow Co., Moline, Ill.
 Munnsville Plow Co., Munnsville, N. Y.
 Oliver Chilled Plow Co. (Hillside), South Bend, Ind.
 Parlin & Orendorff Co., Canton, Ill.
 Robinson Chilled Plow Co. (Hillside & Reversible), Canandaigua, N. Y.
 Rock Island Plow Co., Rock Island, Ill.
 South Bend Chilled Plow Co. (Reversible, Hillside, etc.), South Bend, Ind.
 Syracuse Chilled Plow Co., Syracuse, N. Y.
 Vulcan Plow Co. (Hillside), Evansville, Ind.
 Wiard Plow Co. (Hillside), Batavia, N. Y.

Plows (Wheel Walking)

Collins Co., Collinsville, Conn.
 Deere & Co., Moline, Ill.
 Hench & Dromgold Co., Inc., York, Pa.
 Messinger Mfg. Co., Tatamy, Pa.

Plugs (Boiler Flue)

Coggeshall Mfg. Co. ("Coggeshall"), Hamburg, N. J.
Webb, Elisha & Son (The "Handy"), 43 S Water, Phila., Pa.

Plugs (Brass)

AMERICAN INJECTOR CO., cor Congress & 7th, Detroit, Mich. (See adv. index, end of book)
Belfield, H. & Co., 435 N Broad, Phila., Pa.
Buckeye Iron & Brass Works, Dayton, O.
Crescent Machine Co. (Radiator), 1152 Trumbull av, Detroit, Mich.
LUNKENHEIMER CO., General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)
Sanitary Co. (Wash Tray, etc.), 7 Water, Cleveland, O.
Trenton Brass & Machine Co. ("Trenton" Wash Tray), Trenton, N. J.
WILLIAMS, D. T. VALVE CO., 904 B'way, Cincinnati, O. (See adv. index, end of book)
Wolverine Brass Works, Grand Rapids, Mich.

Plugs (Conduit Sealing)

Phila. Electrical & Mfg. Co., 2011 Market, Phila., Pa.

Plugs (Fusible)

AMERICAN INJECTOR CO., cor Congress & 7th, Detroit, Mich. (See adv. index, end of book)
ASHCROFT MFG. CO., THE, S5, S7 & 89 Liberty, New York. Works: Bridgeport, Conn. (See adv. index, end of book)
Belfield, H. & Co., 435 N Broad, Phila., Pa.
Buckeye Iron & Brass Works, Dayton, O.
Crane Co. (Est. 1855), 519 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
CROSBY STEAM GAGE & VALVE CO., 97 Oliver, Boston, Mass. (See adv. index & branch offices, end of book)
Darling Pump & Mfg. Co., Williamsport, Pa.
Duluth Brass Works, West Duluth, Minn.
Eastwood Wire Mfg. Co., Belleville, N. J.
Eaton, Cole & Burnham Co., Bridgeport, Conn.
Farnan Brass Works, Cleveland, O.
Fewlass-Leen Brass & Iron Co., Cincinnati, O.
General Fire Extinguisher Co., Providence, R. I.
Glasgow Iron Works & Supply Co. ("Phillips"), 28 West, New York
Haines, Jones & Cadbury Co., 1136 Ridge av, Phila., Pa.
Haydenville Co., Haydenville, Mass.
Hills-McCanna Co., 128 E Kinzie, Chicago, Ill.
Hoffman, B. Mfg. Co., 257 6th, Milwaukee, Wis.
Illinois Malleable Iron Co., 30 W Monroe, Chicago, Ill.
Kelly & Jones Co., Pittsburg, Pa.
LUNKENHEIMER CO., General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)
McNab & Harlin Mfg. Co., 56 John, New York
National Supply Co., Toledo, O.
Perkes, Charles, 627 Arch, Phila., Pa.
Pittsburg Valve, Foundry & Construction Co., 26th & A. V. R'y, Pittsburg, Pa.
Powell, Wm. Co., 2525 Spring Grove av, Cincinnati, O.
Queen City Brass & Iron Works, Spring Grove & Garrard avs, Cincinnati, O.
SCHAEFFER & BUDENBERG MFG. CO., Foxboro, Mass. (See adv. index, end of book)
Star Brass Mfg. Co., 108 E Dedham, Boston, Mass.
Thomas Brass & Iron Co., Waukegan, Ill.

Plugs (Paper Mill)

Peters', Jno. M. Sons (Wood), Bleecker, N. Y.

Plugs (Soil Pipe Testing)

Drummond, M. J. & Co., 182 B'way, New York
Illinois Malleable Iron Co., 30 W Monroe, Chicago, Ill.
Kemp, C. M. Mfg. Co. (The "Desper"), 404 E Oliver, Baltimore, Md.

Plugs (Spark)

American Coil Co. (Mica Core), Foxboro, Mass.
American Machine Mfg. Co. ("Perfection"), South Braintree, Mass.
Anderson Spark Plug Co., 100 Boylston, Boston, Mass.

Anderson, J. C. Mfg. Co., Jersey City, N. J.
Arc Spark Mfg. Co., 125 W. 32d, New York city
Arc-Toledo Spark Plug, 140 Michigan, Toledo, O.
Atlantic Electrical Co., Ameshury, Mass.
Auto Equipment Co. (The), 260 Jefferson av, Detroit, Mich.
Automobile Supply Co., Mich. bldg, Chicago, Ill.
Auto & Power Appliance Co., Cleveland, O.
Barber, A. S., Brooklyn, N. Y.
Bosch, Roh ("Bosch"), 1947 B'way, New York
Bradley, C. B. Motor Co., Phila., Pa.
Brennan Motor Co., Syracuse, N. Y.
Broc-Barbier Auto Ignition Co., 143 W. 54th, New York city
Byrne-Kingston Co. ("Kingston"), Kokomo, Ind.
B. & J. Mfg. Co., 3985 Cottage Gr. av, Chicago, Ill.
Canton Automobile Supply Co. ("Kankaroo"), Canton, O.
Champion, Albert Co. ("Nieuport," Imported), 541 Tremont, Boston, Mass.
Charter & Co. ("Charter"), 305 Dearborn, Chicago, Ill.

Clemick-Hirsch Co., Milwaukee, Wis.
Columbus Screw & Machine Co., 244 Kaiser, Columbus, O.
Constant Co., 135 Oliver, Boston, Mass.
Dayton Electrical Mfg. Co. ("Apple" & "Climax"), Dayton, O.
Delta Mfg. Co. ("Delta"), Bloomfield, N. J.
De Lux Mfg. Co., 1515 Seneca, Buffalo, N. Y.
Detroit Screw Works, Detroit, Mich.
Doherty, H. B., Binghamton, N. Y.
Dow Portable Electric Co., Braintree, Mass.
Duplex Ignition Co., Inc. ("Duplex"), 1555 B'way, New York city
Elbridge Electrical Mfg. Co. ("Elbridge"), Elbridge, N. Y.
Electric & Auto Co. ("Orswell"), Amesbury, Mass.
Etna Electric Works (Mica), 145 E. 23d, New York
Fischer Special Mfg. Co., Cincinnati, O.
Fourfourne Spark Plug Co., 23 E. Lake, Chicago, Ill.
Funke, A. H. ("Baldwin"), New York
Geer, Harry R., Co., 1017 Pine, St. Louis, Mo.
Gerson-Carey Co., Lansing, Mich.
Grant Mfg. & Mach. Co. ("Empire"), Bridgeport, Conn.
Guarantee Auto Supply Co., Philadelphia, Pa.
Hamblin El. Co., 25 Calendar, Providence, R. I.
Hardy, R. E. Co. ("Sta-Rite"), 225 W. B'way, New York
Herz & Co., 187 Elm, New York
Huff, E. S. Co. ("Huff"), Detroit, Mich.
Igniter Appliance Co. ("Shurfire"), Cleveland, O.
Kent Sparking Plug Mfg. Co. ("Kent"), Brooklyn, N. Y.
Knoblock-Heideman Mfg. Co., South Bend, Ind.
Lavalette & Co. ("Elsemann" & "Lavalette"), 16 E. 42d, New York city
Lipman, Carl E. L. ("Billy Hell"), Beloit, Wis.
McCanna, J. F., 244 Wells, Chicago, Ill.
McCord & Co. ("McCord"), Colony bldg, Chicago, Ill.
Mayo Damper Co., Pottstown, Pa.
Merkel Motor Co., Milwaukee, Wis.
Mezger, C. A., 203 W 80th, New York
Miller, Chas. E., 101 Reade st., New York City
Miller Mfg. Co., Peekskill, N. Y.
Mosler, A. R. & Co. (Inc.) ("Spit-Fire"), 163 W 29th, New York

Never-Miss Spark Plug, Lansing, Mich.
Oakes & Dow Co. ("Comet"), 40 Sudbury, Boston, Mass.
Orswell Ignition Co., 382 Atlantic av, Boston, Mass.
Peerless Machine Co., Detroit, Mich.
Pittsfield Spark Coil Co. ("Jewell" Mica), Pittsfield, Mass.
Post & Lester Co. ("E. I. C."), Hartford, Conn.
Progressive Mfg. Co. ("Brown"), Torrington, Conn.
Providence Spark Coil Co., 143 Summer, Providence, R. I.
Rajah Auto Supply Co., 140 Washington, New York
Richardson Engineering Co. ("Rich Spark"), Hartford, Conn.
Roche, Wm. Dry Battery Co., 40 W B'way, New York
Rubay, Leon, 140 W 38th, New York City
Russell, W. A. & Co., Waterbury, Conn.
Senebler & Wheeler Carburetter Co., Indianapolis, Ind.
Schug Electric Mfg. Co., Detroit, Mich.
Seidler-Miner Electric Co., 205 Jefferson av, Detroit, Mich.
Shain, Chas. D., 70 Murray, New York City
Shea, George, 95 Langley av, Detroit, Mich.
Silsby Atwater Corp. ("Idium"), Boston, Mass.
Splitdorf, C. F., 23 Vandewater, New York
Springtight Terminal Co. ("New Era"), Lansing, Mich.
Taylor-Fountain Eng. Co. ("Morse"), 10 Commercial av, Newark, N. J.
Tritt Electrical Mfg. Co., South Bend, Ind.
Triumph Engineering Co., 1046 Herkimer, Brooklyn, N. Y.
Turner Brass Works, 68 N Franklin, Chicago, Ill.
Twentieth Century Mfg. Co., 19 Warren, New York

Uncas Specialty Co., 21 Shipplug, Norwich, Conn.
United Electrical Mfg. Co. ("Crescent"), 67 Murray, New York
Utility Co. ("Utility"), 332 Broadway, New York
Vesuvius Battery Co., New York
Western Electric Co., Chicago, Ill., & 57 Beethune, New York
Wheeler Mfg. Co., Detroit, Mich.
Willis, E. J. Co. ("Yaukee" & "H. M."), 8 Park Place, N. Y. City

Plugs (Tie)

Porter-Morse (Elm, Cedar & Oak), Saginaw, Mich.

Plugs (Wall)

(See Wall Plugs.)

Plugs (Wood)

Batchelder & Co., Lowell, Mass.
Estes, E. B. & Son, 74 Warren, New York
Peters', Jno. M. Sons, Bleecker, N. Y.
Portland Cooperage Co., Portland, Me.
Redlich Mfg. Co. (All Kinds), 2 Oak, Chicago, Ill.
Sommers', Jno., Son, Newark, N. J.
U. S. Bung Mfg. Co., 48 S 2d, Brooklyn, N. Y.

Plugs & Patches (Tire Repair)

(See also Cement)

Cox & Spencer, Rahway, N. J.
Diamond Rubber Co., Akron, O.
Goodrich, B. F. Co., Akron, O.
Goodyear Tire & Rubber Co., Akron, O.
Hartford Rubber Works Co., 691 Park av, Hartford, Conn.
India Rubber Co., New York
Morgan & Wright, Chicago, Ill.
Parks, F. B., Grand Rapids, Mich.
Pneumatic Tire Plug Co., Danbury, Conn.
Tingler, Charles O. & Co., Rahway, N. J.

Plumb Bobs

BERNZ, OTTO, S 13th c's Orange av, Newark, N. J. (See adv. index, end of book)
Braunsdorf-Miller Co., Elizabeth, N. J.
Brown & Sharpe Mfg. Co. ("Mercury"), Providence, R. I.
Chalfant Mfg. Co., Lancaster, Pa.
Crescent Novelty Mfg. Co. (Lead), 703 S B'way, St. Louis, Mo.
Disston, Henry & Sons, Tacony, Phila., Pa.
Jennings, C. E. & Co., 42 Murray, New York
Keuffel & Esser Co., 127 Fulton, New York
Kupferle, Jno. C., 2d c Mound, St. Louis, Mo.
Lawler Water Feed & Damper Regulator Co. (for Gas Fitting), 158 Wooster, New York
Osborne, C. S. & Co., Newark, N. J.
Peck, Stow & Wilcox Co., Southington, Conn.
Phoenix Hardware Mfg. Co., Homer, N. Y.
Reading Hardware Co., Reading, Pa.
Russell & Erwin Mfg. Co., New Britain, Conn., & 43 Chambers, New York
Sargent & Co., New Haven, Conn., & 94 Centre, New York

SOLTMANN, E. G.

(For Engineers & Architects; also Everything for Architect, Engineer & Draughting Room), 125 E 42d, New York. (See adv. index, end of book)

Stanley Rule & Level Co., New Britain, Conn., & 107 Chambers, New York
Starrett, L. S. Co. (Mercury Steel), Athol, Mass.
Tower & Lyon Co. (and Trammel Points), 95 Chambers, New York
Welch, T. F. & Co., 65 Sudbury, Boston, Mass.
Wrightsville Hardware Co., Wrightsville, Pa.

Plumbago

Asbury Graphite Mills (H. M. Riddle, Prop.) (Miners & Refiners), Asbury, N. J.
DIXON, JOS. CRUCIBLE CO. ("Dixon's" for Foundry Facings, Yacht Bottoms, Shot Polishing, etc.), Jersey City, N. J. (See adv. index & branch offices, end of book)
Doggett, Stanley (Mfrs. Agt.), 101 Beekman, New York
Kelly, Thos. P. & Co. (Ceylon), 544 W 22d, N. Y.
McCormack, J. S. Co., 25th & A. V. R'y., Pittsburg, Pa.
McCullough-Dalzell Crucible Co., Pittsburg, Pa.
Obermayer, S. Co., 647 Evans, Cincinnati, O. (See adv. index & branch offices, end of book)
OSBORN MFG. CO., 5401 Hamilton av, N. E., Cleveland, O. (See adv. index, end of book)
Pettinos Bros., Bethlehem, Pa., & Uwchland, Pa.

Salomon, L. A. & Bro., 216 Pearl, New York
SMITH, J. D. FOUNDRY SUPPLY CO.,
 (Silver or Foundry), 1581 Columbus rd, N W,
 Cleveland, O. (See adv. index, end of book)
SPRINGFIELD FACING CO., Spring-
 field, Mass. (See adv. index, end of book)
 Standard Graphite Co., 11 B'way, New York
 Taunton Crucible Co. (Pure Ceylon Graphite for
 Stove Dealers' Use), Office & Works, Taun-
 ton, Mass.
 United States Graphite Co., 1208 Arch, Phila.,
 Pa.

*Plumbago (Electrotyping)

DIXON, JOS. CRUCIBLE CO., Jersey
 City, N. J. (See adv. & branch offices in-
 dex, end of book)

*Plumbago (Yacht)

DIXON, JOS. CRUCIBLE CO., Jersey
 City, N. J. (See adv. & branch offices index,
 end of book)

Plumbers, Gas & Steam Fitters

(Plumbers under this heading marked with a
 † contract also for Steam and Hot Water Heat-
 ing.)

(For firms who contract exclusively for Steam
 & Hot Water Heating see Heating Contractors,
 Steam & Hot Water.)

We are prepared to Address, Fold and Mail
 Circulars, Envelopes, Wrappers, Catalogues, etc.,
 from our own lists, which are corrected to date,
 and guarantee the refunding of postage on all
 such matter returned immediately upon its re-
 ceipt from the Post Office authorities in conse-
 quence of any errors in these lists.

S. E. HENDRICKS CO.

ALABAMA.

ANNISTON—†Anniston Supply Co.

Belcher Plumbing Co.

BESSEMER—Winn, O. W.

BIRMINGHAM—†Alabama Supply Co., 316 N
 20th
 3d av

†Babour, B. F. Plumbing & Elec. Co., 2119

Barbour, J. H.

Beatty & Beatty

Brand Bros. & Co., 309 S 20th

Davis, Isom, 408 S 20th

†Gayle, R. W., 215 N 20th

†Haran, J. M. & Co., 1911 3d av

Hayden Plumbing Co., 1806 4th av

†Ross Bros., 1718 1st av

Scholz Plumbing Co., 2221 1st av

Wright, Jno. M. & So., 1814 3d av

DECATUR—Decatur Plumbing Co.

Smith, A. P. & Son

ENSLEY—Ensley Plumbing & Construction Co.

Evans & Simpson

EUFAULA—Folsom, C. J. & Co.

Folsom, G. W. & Sons

FLORENCE—Florence Plumbing & Roofing Co.

GADSDEN—Campbell, C. M. Plumbing Co.

Campbell Mfg. & Supply Co.

GREENSBORO—Findlay, George

GREENVILLE—Johnson, J. F. Hardware Co.

HUNTSVILLE—Blake, J. W. & Bro.

Hutchins & Murdock

London, David R.

MOBILE—Copeland, Samuel D. & Sons

Farno, F. G.

Gaston, E.

Home Plumbing Co.

Leaky, L. J.

Lutz, R. E.

McCosker, Felix

Mulvey, J. A.

Potter, Walter

Simmons & Young

Wagner, Thomas & Co.

MONTGOMERY—Bailey, P. P. Co.

Barrett, M. B.

Barrett, O. B.

Fagan & Bressingham

†Loughran, P. J., 105 S Court

McCosker, F. J., 14 S Perry

Murray, J. A. & Co., 20 S Perry

†Webber & Johnson

Whittaker & McAdam

NEW DECATUR—Decatur Cornice & Roofing Co.

Sanitary Plumbing Co.

OPELIKA—Morgan, M. D.

Turner, M. A.

SELMA—Samuel, Frank

Selma Electrical Supply & Plumbing Co.

†Wilby, Wm.

SHEFFIELD—Machtolf, Paul

TALLADEGA—McMillan, W. H.

†Michael Supply Co.

TUSCALOOSA—Abbott Bros.

UNIONTOWN—†Brown, Jas. J.

ALASKA.

JUNEAU—Price Bros.

NOME—Scheid & Co.

Witt, Oscar

SEWARD—McNeiley & Mead

SKAGWAY—Hosford, F. L.

Nettles & Ford

VALDEZ—Yakshaw, J. J.

ARIZONA.

BISBEE—Bisbee Plumbing Co.

Bywater, Wm.

Ord, E. G. & Co.

DOUGLAS—Dicus, M. F.

FLAGSTAFF—Friedlein, Wm.

GLOBE—Scott & Co.

PHOENIX—†Burtis, D. H.

Evans, Wm

Gosart Plumbing Co.

Welsh, J. H.

PRESCOTT—Kiehl, Edward

Mulvein, J. H.

TUCSON—Egurrelo, Rafael

†Gardiner, Worthen & Goss Co.

Julian, W. A. & Co.

Ramage & Ganz

Tucson Hardware Co.

WINSLOW—Hall, F. W. & Co.

YUMA—Milton, James

Parks & Harris

ARKANSAS.

ARGENTA—Argenta Plumbing Co.

Gerard, J.

BATESVILLE—Baker, W. L.

Pascoe, L. H. & Co.

CAMDEN—Koen, W. C.

EUREKA SPRINGS—Barnett Plumbing Co.

FAYETTEVILLE—Duggan Bros.

Skelton, James L.

FORREST CITY—Blum & Gilliland

McDaniel, S. P.

FORT SMITH—†Ayres Plumbing Co.

Brown & Co.

Bruce Bros.

Duun, B. F.

Fort Smith Cornice & Plumbing Co.

Meister Bros.

People's Plumbing Co.

HELENA—†Bulow, Paul

†Helena Job Works

Helena Tin & Plumbing Co.

HOT SPRINGS—Arkansas Plumbing Co.

Borman, William

Clifford & Sterling

Ford Heater & Plumbing Co.

Hot Springs Plumbing & Machine Co.

Millmine, J. W.

JONESBORO—Campbell, W. P.

Moser, J. H.

LITTLE ROCK—†Arkansas Pump & Pipe Co.

Gowdy, John Mfg. Co.

Gowdy & Galloway Co.

Murray & Regitz

Peay, Nick Construction Co.

†Pettit & Sanders

Pfeifer-Heinstedt Plumbing Co.

Rogaski, A. V.

Rose City Plumbing Co.

MARIANNA—†Plummer & Davis

MENA—Evans, C. F. & Co.

Watkins, W. E. & Bro.

NEWPORT—Knoles, W. M.

PARAGOULD—Paragould Plumbing Co.

PINE BLUFF—Citizens Plumbing Co.

Pine Bluff Plumbing Co.

†Robinson Bros.

Wolff, R. C.

TEXARKANA—Daley, T. F.

Hoffman, J. G.

Ledwidge, John J.

McChesney, L. P.

CALIFORNIA.

ALAMEDA—†Cambridge & Co.

†Fischer, C. F. Plumbing Co.

Flynn, J. J.

†Furey, F. P.

Hanson, T. R.

Hockins, W. F.

James, Robert

Le Clerc & James

†Owens, M. H.

Schulte, W. F.

AUBURN—White, J. K.

BAKERSFIELD—Gundlach, Max, Jr.

McKinley, S. S.

Quincy Plumbing Co.

BENICIA—Lopas & Machling

BERKELEY—Adair, G. F.

Annis, R.

Boyce & Ferris

Buckius & Wentworth

Davis & Stoddard

Driggs-Butterfield Co.

Ehret, E.

Hahn & Boyce

Hall, E. S. Co.

Haws Co.

McNamara, J. M.

Menges, J. J.

Miller, A. H.

Pennie, W. H.

Poulsen, A. M.

Sahlmann, Max F.

Sanitary Plumbing & Sheet Metal Co.

Smith, D. T.

Suendermann, Jno.

Thompson, J. E.

Underwood, B. E.

CHICO—Baker, J. T.

Gray, R. W.

Jewell, R. S.

EUREKA—Hansen Mercantile Co.

Moore & Cook Co.

Perry, Geo. H.

Shields Bros.

FRESNO—Anderson & Rowe

Barrett-Hicks Co.

Dryer & Machen

Dunbar, D. A.

Foin, F. A. & Son

Gearheart-Favors Co.

Smith, E. C.

Weaver, J. F.

FULLERTON—Case, George

GILROY—Robinson Hardware Co.

GRASS VALLEY—Biggs Hardware Co.

Clauson, C.

Fisher, Samuel

Noell, Richard

HANFORD—Foster, Fred.

Foster, Lee W. Mercantile Co.

Gravatt & Co.

Hoen, D. H.

Horlock, A. E. Co.

HAYWARDS—†Brunner, H. E.

Dale, William

Jorgensen, Geo. & Co.

HEALDSBURG—†Garrett, A. W.

Gunn & Ferguson

HOLLISTER—Brown & Chappell Co.

Stevens & Harrison

JACKSON—Garbarini & Arata

LIVERMORE—†Anthony, Mrs. M. S.

Carroll & Strang

LONGBEACH—Frisbie & Saxton

Holloway, W. H.

Holme, C. G.

McKinley & Byrne

Moore, J. D. L.

Morloch, Max

Owens, M. T.

Smith & Adams

Stephens Bros.

Therleau & Anderson

Warner, T. J.

LOS ANGELES—Armstrong, J. M.

Babcock Plumbing Co.

Barlow, C. D. & Son

Baumgartner, Valentine

Beattie, R. F.

Blumve & Jay Co.

Boag, F. R.

Bott-Osgood Co.

Brogden, Abraham

Brown, S. C. Co.

Bundy & Naught

Campbell, J. F.

Canfield Hardware Co.

Cook & Gibbs

Crowell & Sutton

Davis & Hoglan

Dellamore, Albert

Denver Plumbing Co.

Dohs, Charles

Earhart, A. C.

Enstace, John M.

Koopmann Bros.
 Kroeger, John L.
 Lang, W. E.
 Lawler, J. B.
 Leighton, J. F.
 Lock & Schulze
 Lohman Bros.
 Longley, A. H. & Sons
 Marble, E. M.
 Marshall, A. B.
 Matthews, J. R.
 Melville, E. F.
 Mephram, A. J.
 Mephram, C. H.
 Miller, B. H.
 Neal, Geo. W.
 Newell Bros.
 O'Brien, T. H.
 Parker, F. M.
 Paul, C. T.
 Peasley, Andrew
 Phillips, Gustav
 Risk & Mould
 Roeder Bros.
 Sanitary Plumbing Co.
 Schultheiss Bros.
 Shears & Cohn
 Smith, J. D. & Co.
 Smith & Wadelon
 Snyder, J. J.
 Standard Plumbing Co.
 Strock, Chas. A.
 Stutsman, M. A.
 Terrell Bros.
 Thompson, A. H.
 Trumbower, R. R.
 Turton, O. H.
 Warden, Wm. E.,
 Watson, W. W.
 White, David
 Wride, F. G.
 Wright, E. R.

LOS GATOS—Lewis, O. & Son
 MADERA—Gould, L. F.
 Hoffman & Stephenson
 MARYSVILLE—Hampton Hardware Co.
 White, Cooley & Cutts
 MERCED—Barcroft & Sons Co.
 Liepelt & Thurber
 Murray, A. H.
 MODESTO—Turner Hardware Co.
 MONTEREY—Hanna, R. F.
 Mylar Bros.
 Pierce, Frank
 NAPA—Thompson, A.
 NEVADA CITY—Turner & Hadley Co.
 OAKLAND—Antonuccio, J., 835 Washington
 Avelar & Abren
 Bendit, N.
 Blake Construction Co.
 Bonham, J. N., 950 Bdy
 Brady, T. J., 467 8th
 Broderick, Wm. B.
 Brophy, S. A., 1113 23d av
 Bullock, Henry C., 1522 7th
 Bullock, J. C. & Son, 1686 7th
 Graham, W. W., E 14th c Bassett
 Burroughs, David
 †Burtchael & Crowley, 1313 Bdy
 Campbell, A. J., 605 San Pablo av
 Cannon, T., 372 12th
 Cretser, Omer R.
 Cruz, J. B., 411 4th
 †Dalziel, R., Jr., Co., 418 13th
 Davison Bros., 832 14th
 Dobon, L. E., 514 7th
 Doell, Carl
 Donovan, G. M., 324 San Pablo av
 Eustice, J. H.
 Gelder, J. & Son, 2007 San Pablo av
 George, Willis B.
 Geraty, W. L., 814 Tel av
 Graham & Smith
 Granholt, Charles
 Hair, Samuel
 Harbinson, W. G., 1159 E 14th
 Heino, Louis, 913 E 14th
 Hufschmidt, L. & Sons, 1739 7th
 Humphrey, F. V., 1252 B'way
 Hunter Bros.
 Ingram Hardware Co., 511 13th
 Kabisus, W. C., 854 Webster
 Kelly, W., 802 Franklin
 Kirk, O. C. & Co., 305 E 12th
 Loane, William
 Low & Anderson, 527 9th
 McAllister, J., 1600 7th
 McCarl, J. A., 628 Tel. av
 McCourtney, P. C., 559 13th
 McGivney, J., 965 Franklin
 McKown, A. H., 572 E 12th
 McLaughlin, E. J., 1704 7th
 Macdonald, J. A. C.
 Maddern, H. T., 1169 Jefferson

Mead, R. O.
 Meyer, John J.
 Mitchell, M. J., 358 12th
 Mohr & Son, 409 San Pablo av
 Neal & Kolich, 923 7th
 O'Brien, D. A., 528 8th
 Omalia, Wm.
 Peterson & Leffler
 Planer, E., 1229 San Pablo av
 Rankin, J., 313 San Pablo av
 Sargent, F. H.
 Scholl, C., 1256 7th
 Scott, George
 Smith & Son, 881 San Pablo av
 Stulz, W. R., 834 Allice
 Sturm, C. L., 405 12th
 Sullivan, E. J.
 Thomas, J. M., 5665 San Pablo av
 Vane, James F.
 Walker, F. C., 770 17th
 Weber, H., 1377 8th
 Yager Sheet Metal & Plumbing Co.

OCEAN PARK—Cooney, T. V.
 Penny, W. A.
 Rogers, H. W.
 Scott, W. A.

OROVILLE—Kelly, Thomas
 Murphy, M. & Son
 Ryant, I. A.
 Sadowsky, C. F.

PALO ALTO—Cashel Bros.
 Christenson-Darling Co.
 Dahl, L.
 Galrand, L. A.
 Sohler & Co.
 Waterman, W. A.

PASADENA—Bucklus, J. J., 36 N Marengo
 Chapman Bros.
 Creller & Griffin
 Downing & Wagner
 Gockley & Marsh
 Mergenthaler & Son
 Morton, Fred B.
 Munger & Munger Co.
 Nay, E. O. & Co.
 O'Brien & Marquette
 Pasadena Plumbing Co.
 Rowe Bros.
 Thiry, E.

PETALUMA—Connell & Dalzell
 Le Cam, H.

PLACERVILLE—Alderson, Edw. L.
 Smith, J. L.

POMONA—Osler, F. H.
 Wilkinson, H. & J.
 Wilkinson, J. W. & Son

PORTERVILLE—Nieman, C. A.

RED BLUFF—Schaffer, A. H.

REDDING—Russell & Lefebvre
 Witter, C. E.

REDLANDS—Kline & Underwood
 Lauterborn, A. & Sons
 Tischer & Norris
 Worthing, S. A. & Co.

RIVERSIDE—A'Fleck, J. B.
 Copley Bros.
 Cuniff, M. T.
 Davenport Bros.
 Schanck, A. H.
 †Shiels, John & Sons

SACRAMENTO—Bailey & McLean
 Bitzer, E. H.
 Conn, C. B.
 Cowles & Simpson
 Donley, John
 Earle, Edw. E.
 Earle, H. W.
 Goepel, Oscar M.
 Jackson, Samuel J.
 Miller & Cahill
 Miller, Edler & Co.
 Mott & Schoenbackler
 Murphy & Kenealy
 Scott, Lyman & Stack
 Siefertman, M.

SALINAS—†Anderson & Dougherty
 Webster, J. A.

SAN BERNARDINO—American Hardware Co.
 †Cooley, G. M. Co.
 Reber & Ralphs
 Reber, E.
 Ross, W. G.

SAN DIEGO—Arnold & Hubbs
 Johnstone, H. S.
 Johnstone, J. S. & Son
 Jullan, C. H.
 Klindler Plumbing Co., 114 5th
 Leonard, J. W., 1243 5th
 Muehleisen, Thomas
 Nichols & Heilbron
 Schultheiss Bros., 16th, bet. I & J
 Wade, Geo.
 Woolman & Collins

SAN FRANCISCO—Ahlbach, Peter
 Ahlbach & Maher
 Allen & Allen
 Anderson, C. E.
 Baumsteiger, Adolph
 Bayreuther, Gustave W. & Co.
 Bernstein, Louis
 Blackman, Morris J.
 Boscus Bros.
 Bowen, J. L. & Son
 Britt, J. E.
 Broad, James F.
 Burns, Thomas
 Butterworth, Jno. B.
 Campbell, David R.
 Casey, Michael B.
 Clark, Joseph
 Clifford, William C.
 Cohen, Moses
 Coleman, Alex.
 Connors & Lombard
 Cronin, Jno. H.
 Dahl, Henry
 Dallamore, George C.
 De Lano Bros.
 Demers & La Chapelle
 †Duffey Bros.
 Duncan, Jno. M.
 Eastman Bros.
 Egan, T. J.
 Eisner, Herman
 Eisner, Philip
 Enright, William F.
 Ernst, Henry
 Ertola, Andrew
 Ertola, B. & Co.
 Fitzpatrick, James
 Forno, Marco B.
 Forsyth, William C.
 Fowler & Buckley
 Fries, Joseph
 Gaetjen, Hy.
 Gainford & Leitch
 Gallagher, Jos. G.
 Garrett, Thomas F.
 Gibbs, Jacob
 Gill, W. H. & Son
 Gilley, F. A. & Co.
 Goddard, James F.
 Gomersal, John
 Gulick & Wetherbee (Inc.)
 Healey, Thomas J. & Son
 Heinz, Conrad
 Hobro, William D.
 Hoffmann & Schlich
 Hufschmidt, Henry
 Hughes, James J.
 Humphreys, Geo.
 Ickelheimer Bros.
 Irelan & Wood
 Jacobson, Charles J.
 Johnson, Anders
 Kayser, Charles
 Kerr, O. & Co.
 Kiernan & O'Brien
 Klimm, F. J.
 Knoles, Fred T.
 Koch, Fred'k
 Kraus, Edmund
 Krug, Albert
 Lath, Albert
 Leiser, Louis
 Levy, M. Co.
 Lippert & Hahn
 Looney, Jeremiah
 Lowrie, John
 Lubliner, Charles W.
 Mehegan, Robert
 Meyer, J. Fred'k
 Mills, Frank H.
 Murray Bros.
 Nebel, William J.
 Noonan, J. F.
 O'Hair, P. E.
 O'Hara, Joseph
 Perazzi, Horace J.
 Platz, Edw.
 Platz, Joseph
 Plevin & Morrice
 Raisch-Dodge Co.
 Rehn, Charles
 Rice, Richard
 Savage, P. H.
 Schanz & Grundy
 Schmitt, Charles G.
 Shepard Bros.
 Smith, C. W.
 Snook, William S. & Son
 Spencer & Fisher
 Stevens, James F.
 Szanik, Samuel
 Taylor & Pritchard
 Trezise, Albert G.
 Trezise, J. Samuel
 Volkmann, Alex. W.

Walsh, Joseph A.
Ward, Patrick F.
Weeks, W. J. J.
Westphal, Henry N.
Williamson, Henry & Co.
Wilson, W. F. Co.
Wolfe, Edward
SAN JOSE—Butler, Stephen F.
Butler & Lupton
Cody, Chas. W.
Delaney, J. W.
Di Christina, C.
Evans, P. T.
Fitts, W. T.
Kooser, Roiey S.
†Mangrum & Otter Co.
Massaro, N.
Meisterhelm, Chas. L.
Moltzen & Keaton
Steriina, C. N.
Sullivan Co.
Thomas, Fred C.
Wesnitzer, Julius
Wilson, H. A.
SAN LEANDRO—Hoerst, E.
Reichsrath, H. L.
SAN LUIS OBISPO—Payne, E. M.
SAN MATEO—Allen, Benjamin
Cogley, M. D.
Ross Bros.
Smoot, R. O.
SAN PEDRO—Baker, Thos. L.
Dakin, H. M.
Gilmore, L. O. & Son
Weaver, F. G.
SAN RAFAEL—Conway, E. H.
Kinsella, R.
Wall, J. H.
SANTA ANA—Bntz, A. R.
McFadden, John
Nickey, F. P. Hardware Co.
Wood, E. E.
Yonng, F.
SANTA BARBARA—Booth, R. L.
Keiser, M. D.
Ord, E. G.
Ott Hardware Co.
SANTA CLARA—Dickinson, F. R.
Hazleton & McVey
SANTA CRUZ—Abraham, E. O.
†Byrne Bros.
Heath & Faneuf
Marsh, Wm. R.
Senegrini, S. B.
Stone, C. W.
Whitney Bros., 156 Pacific av
SANTA MONICA—Boehme, Geo. O.
Jackson Hardware Co.
Middlekauff, C. D.
Nittlinger, E. P.
Richmond & Place
Tilsley, W. G.
SANTA ROSA—Burch, G. W.
Colgan, C. L. Plumbing Co.
Demmer, Chas.
Mailer, J. C. Hardware Co
Morrow, E. E. & Son
Potter, J. H. & Son
SONORA—Garvin & Sheehan
STOCKTON—Boscacci, P. M. & Son
Gneckow, Edw. L.
Hampton, John
†Jackson & Earle, 246 Main
Johnson, R.
Mills, James T., 148 Main
Pahl & Harry
Schuler, Geo. F.
Schuler-Tschierschky-Scally Co.
Walsh & Miller
Whale, E. A.
TULARE—Brunner, Geo. A.
Richardson, J. J.
VALLEJO—Eisenhuth & Heiter
Hellerman, John
McCue & Best
†Wilder, H. E.
Winchell, O. L.
VENTURA—Du Val & De Troy
Leach, B. A.
VISALIA—Askin, R. M. & H.
Gilbert & Son
WATSONVILLE—Beck, A. P.
Fennell, J. F.
Jameson, Jno.
Webb Bros.
WHITTIER—Collins, J. S.
WOODLAND—Allen, H. F.
Bender Bros.
Kuhn, Theo.
Kuhn, Herman & Son
Morin, C. D.
Stoessiger, J. T.

COLORADO.

ASPEN—Fort, Alex.
Ikeler, H. B.
BOULDER—Barry, T. E.
†Boulder Iron Works Co.
†City Plumbing & Heating Co.
Daugherty & Co.
Turner, Charles S.
COLORADO CITY—Priess, Frank
COLORADO SPRINGS—†Argust Bros., 17 S Cascade
†Bumstead, F. E.
†Doyle & Schwartz, 113 E Bijou
Gilmore Plumbing Co. (The), 11 E Bijou
Haas, N. W. Plumbing & Heating Co.
Hart, C. W., 119 E Kiowa
Joyce, E. R., 217 E Pike's Peak
St. John Bros.
St. John & Barnes, 206 N Tejon
Scott, William, 116 Exchange pl
Troutman, L. M. & Co., 406 S Tejon
Wister Plumbing & Heating Co.
CRIPPLE CREEK—Lorton, J. D.
Tolan, A. J.
Worrall, Geo. & Co.
DENVER—Balfe, P. H., 1945 Champa
Balfe & Krontwick, 831 18th
Berger, Emil, 2136 W 29th av
Berniker, Max, 818 18th
Bigler, Frank B.
Bordeau, Francis X.
Bradley, August T., 18th & Lawrence
Bradley, M. C.
Bryan Plumbing & Heating Co.
Bynum, Charles W.
†Costello & McGee
Coughtry, Geo. B., 1848 Stout
Crean, Wm. T., 1509 Tremont
Creek, Marshall & Co., 2029 Champa
Davis & Stone
Dolan, T. F. Heating & Plumbing Co., 1422 Glenarm
Doyle, Richard E.
Eagan, J. T., 1555 B'way
Frey, Daniel, 1738 Glenarm
Fullman, Charles & Co.
Gill Sanitary Plumbing Co., 2749 W 25th av
†Goff, Frank C. & Co., 432 Temple Ct
Gumlick, A. J., 248 S. B'way
Hensler Bros.
Hebert, Joseph C., 3646 Downing av
Hubbell, A. S.
†Irving Plumbing & Heating Co., 1709 California
Johnson & Davis, 427 15th
Kiefer, J. E. Plumbing Co., 1410 Lawrence
Kirschstein, Michael, 2029 Lawrence
Lamont & McIver, 1909 Curtis
Larimer Heating & Plumbing Co., 1717 Wazee
Loser Bros., 228 15th
McDermott & Son
McDonald, Lawrence, 2312 E Colfax av
McGee, H. W. Plumbing Co., 626 18th
Mann, C. & Co.
Mason, Harry, 2328 E Colfax av
Maypole & Lewis, 2518 W Colfax av
Meyer, Walter D., 131 B'way
Montgomery, W. W.
Moody & Scovill
Mowbray Bros.
Murnan, M. J., 1220 Larimer
Mutch, Jno. B., 803 B'way
New York Plumbing Co., 834 Santa Fe av
Parry, J. R., 1536 California
Pearson, R. L.
†Pellenz, J. P., 931 18th
Pinney, W. J. Co.
†Reilly, C. J.
Roach, Charles T.
Robertson, W. A.
Ross, W. L., 12 E 1st av
Saaler & Fenske
Sawkins, J. O., 1737 S Wash'n av
Schuster, J. G., 1759 Stout
Small Bros. Plumbing Co., 1935 Welton
Smith Bros. Plumbing Co., 231 15th
Smith, George W. H.
Snow Plumbing Co., 1734 Curtis
Stanley & Oldenettel, 2508 15th
Suess Plumbing Co.
Tost & Jones, 2009 W 32d av
Van Daniker, J. F. Plumbing & Heating Co., 2430 Larimer
Vandeventer, Theo.
Wafer, J. J.
Walker Bros. Plumbing Co., 1762 California
Wallace Plumbing Co., 1373 B'way
Warlum, W. O., 315 16th
White, T. J., 1543 Champa
Winters Bros., 1815 Champa
Wirth, G. M., 1333 B'way
DURANGO—Jackson, Jos. E.
FORT COLLINS—Arnold, L. E.
Dierck, H. G.
Hendrie, Thomas G.

GRAND JUNCTION—Fletcher, George W.
Goodman, H. & Son
Holt, R. W.
Lewis & Salce
McKenzie, John E.
Trobitz, Charles T.
GREELEY—Ecker, W.
O'Brien & Day
Paine, I. H.
†Potter, J. D.
IDAHO SPRINGS—Clayton, E. B.
LA JUNTA—†Johnson, John
LEADVILLE—Ferry, Jas. F.
Mandy & Belz
Priddy & Baker
LONGMONT—Brott, A. W.
Buckley, J. A. & Sons
Larson & Moore
PUEBLO—Burke, D. E.
*†Clark, J. P. Plumbing & Heating Co.
English, J.
Francis Plumbing & Supply Co.
Gelser, Charles & Son
Goss & Udick
Howlett, James M.
Long, Benton, R.
†Morgan, T. J. Plumbing & Heating Co.
Phillips, J. H.
Pueblo Plumbing Co.
Rees, L.
Wade, L. F. Plumbing & Heating Co.
ROCKY FORD—Anderson, W. E.
Anderson & Willson
Unverson, Geo.
SALIDA—Bateman Hardware Co.
Paine & Paine
TRINIDAD—†McEwan, Jno.
Rowland, H. T.
St. John & Barnes
VICTOR—Callahan, T. F. Plumbing & Heating Co.
Worrall, George Plumbing Co.

CONNECTICUT.

ANSONIA—†Gaffney, William
Kelly, Michael J.
†Terry, T. P. & Son
Webb, J. T.
BETHEL—Wright, W. T.
BRANFORD—Dunn, P. H.
Enquist, A. R.
McKeon, Frank P.
BRIDGEPORT—Ball, D. A., 268 State
Beitner, Geo. L., 273 State
Birmingham, John, 35 Court
Bonner & Co., 262 Noble av
†Booth, F. & F. C., 103 Middle
Brady, F. C. & Co.
Brady, Thos. T., 108 Congress
†Bridgeport Water Heater Co.
Carlson & Benson
Clark, Wm. H.
Cope & Mickel
Cullen, Joseph T.
Curtis, Nathan B.
Doherty & Freeman
†Donning, William H.
Dougherty, Andrew J., 111 Kossuth
†Eames, C. S. & Co.
Finch, E. B.
Gleeson, Augustine, 108 Reiley
Gray, Chas. H., 1177 Stratford
†Green, M. A. & Co.
Groeschner Bros., 788 Broad
Hebermehl & Schepp
Hurley, James J., 606 E Main
†Kennedy, W. P., 1462 Main
Kinder, Fred'k W., 506 Myrtle av
†Kirk, W. P. Co.
†Lord & Roberts, 20 Crescent av
†Lynch & Co., 56 Golden Hill
†Middlebrook & Goulden, 40 Court
†Mills, L. H., 32 Middle
Mullins, Jos. & Co., 935 E Main
Murphy, John F., 33 Union sq
†Nichols, W. D., 1171 State
Reilly, Jeremiah, Jr., 283 State
†Rock, R. T., 103 South av
Rockwell, Cortez C., 1620 Main
Scanlon & Shallue, 1772 Main
†Scofield, G. E., 585 E Main
Taylor, H. O., 676 Fairfield av
†Wellington & Co., 167 Stratford av
Wheeler, Cook & Co., 92 State
BRISTOL—Birdy & Sheehan
Coleman, Patrick J.
Roberts & Arnold
Shaffer, F. A.
†Stedman & Co.
†White, J. M.
COLLINSVILLE—†Bidwell, D. W.
Brown, Samuel

DANBURY—†Danbury Hardware Co.
 †Duane & Culhane, 10 Keeler
 †Hoyt, H. W. Co.
 Hull Bros. Co.
 †Norman & Rice
 Rice, Geo. P., 286 Main
 Ryan, J. H.
 Sanitary Plumbing & Heating Corporation
 Scofield, T. & Co.
 Taylor, W. C.

DANIELSON—†Bradford, Thomas
 Dunn, Jas. J.
 Nado, Louis A.

DERBY—Dickgieser, C. J. & Co.
 †Kelly, D. H., 36 Elizabeth
 Kelly, T. F., 55 4th
 Little & Haggerty
 †Peck, E. W. & Co., 286 Main
 Shelton Tin & Plumbing Co.
 Tracy, Edw. P.

EAST HARTFORD—Beck, Curt F., 22 Governor
 Beck, H. Frank, 46 Governor

ESSEX—†Babcock, Leroy
 Bowen, William

FAIRFIELD—Rock, Daniel

GREENWICH—†Allen, David K.
 †Carroll & Woollard
 †Cunneen, James
 Hubbard, Isaac M.
 Peabody, Geo. D.
 †Peck, E. S.
 †Talbot, Francis J.

GUILFORD—Forbes, C. B.

HARTFORD—†Andrews, C.
 †Barrett & Wall, 70 Allyn
 †Birch, Richard & Co.
 †Bull, N. B. & Son, 345 Asylum
 Campbell, Fred. S., 205 Park
 Conran, Frank E., 370 Trumbull
 Conway, Thos. K., 93 Franklin
 Cope Bros., 117 Market
 Couch, Geo. M., 1072 Main
 †Davis, I. B. & Son, 40 Cushman
 Dowd & Saddler
 Dowling, Thos. L., 448 Asylum
 †Duffy, James F. & Son
 Dunn, J. J., 3 Central
 Dunne, D. J., 34 Sheldon
 †Ellison, Frank D., 19 Kinsley
 Epstein, Otto, 34 Wells
 Garvie, Robert, 12 Mulberry
 Gunning, Chas. J., 10 Church
 †Hanlon & Murphy, 280 Asylum
 †Harris, James, 548 Asylum
 Hartford Plumbing Co.
 Haspey, William
 Hevey, H. A.
 Hogan, Wm. B. & Bro., 201 Trumbull
 Hopper, John W., 1076 Main
 †Langdon & Daley, 1222 Main
 Langdon & Sullivan
 †Libby & Blinn, 164 State
 †Lyon, J. & Sons, 20 Central Row
 McDonald, J. A., 824 Park
 McGrath, E. A.
 †Mahl, Edward, 1204 Main
 †Mahl, Geo. & Son, 1140 Main
 †Mahoney, W. E., 261 Asylum
 Melicovsky, J., 209 Front
 Murray, James T.
 †Murray, Wm. & J., 450 Main
 †Oakes, Thos. & Son, 9 Haynes
 Purcell, J. L., 391 Main
 Saint John, George H.
 †Sinnott, Thos. J., 248 Park
 Smith, Allie M., 166 Windsor
 Snow, G. A.
 Spiers, Robert G., 27 Albany
 Starbuck, R. M. & Co.
 Stoltz, K. J.
 Trant, Thomas, 360 Main
 Vanderman, H. & P. Co., 170 Pearl

JEWETT CITY—Gorman, Geo. D.
 Tracy, John H.

LITCHFIELD—†Allen, E. B. Co.
 †Crutch, G. R.
 Moraghan, Michael V.

MANCHESTER—Stannard, J. H. & Co.

MERIDEN—Brodeur & Lynch
 Cashen, J. J., 43 Merriam
 †Cashen, Wm. B., 27 State
 Goodrich, F. S., 260 Centre
 †Kay, James T., 35 State
 Lamont, Wm. J., 27 Vine
 Liddy, P. J., 69 W Main
 Taylor, Wm. & Son, 64 E Main
 †Taylor & Taylor, 19 Church
 †Wheeler, F. J., 17 W Main

MIDDLETOWN—Bacon Bros., 287 Main
 †Donovan, James, 288 Main
 †Flynn, J. T., 160 Court
 †Hale & Kelsey, 314 Main

Kennedy, Roger, Main c Maple, S F
 †Mills, L. D., 108 Court
 Schenk, Fred, 200 Main

MILFORD—Bailey, Noyes R.

MYSTIC—Brown, Clark H.
 Hopewood, J. E. & Co.
 †Newbury, E. H.

NAUGATUCK—Baker, Arthur, 13 Pond
 Dunn, Martin, 262 Water
 McCarthy, W. H. Co., 75 S Main
 †Miller, Archie, 209 Water
 Neary, Richard, 3d, U. C.
 Page, J. M. & Co., 175 Church
 †Wigglesworth, Geo., 163 Maple

NEW BRITAIN—Bergeron, A. H.
 †Brady, Thos. H., 351 Main
 Bromley, C. H., 32 W Ellis
 Burns, T. E., 295 Main
 Croll, Louis
 †Damon, S. W., 367 Main
 Emley, Wm., 137 Main
 †Ericson & Johnson, 34 Dwight
 Erwin, R. H.
 Gold, Nathan H.
 †Hjerpe, C. A., 127 Church
 †Loomis, F. W. & Co., 156 Arch
 Pape, W. C., Corbin pl
 †Parker & O'Connor, 104 Commercial
 Quinliven, Thomas
 Rapelye, Geo., 250 Main
 Riley, Terrence, 74 Church
 Rund, Frank A., 37 E Main
 †Tormay, P. J., 77 Arch
 †Welant, A. E., 13 Franklin sq
 Weiant, J. B., 93 Winthrop

NEW CANAAN—†Raymond, W. S.
 Simon Bros.
 Wolfe & Greenwald

NEW HAVEN—Batter, Morris, 67 Prince
 Beardsley & Story, 676 Chapel
 Beebe, Wilson E., 414 Howard av
 †Beegan, Jno. B., 952 State
 Berman, Jos., 41 Broad
 Botsford & English, 936 Chapel
 †Bradley Co., 158 Orange
 Bristol, W. T., 116 Lamberton
 Brown, Jas. C., 887 Grand av
 Brown, James H.
 †Brown, James W., 30 E Grand av
 †Buckingham-Routh Co., 151 Court
 †Buckley, J. H., 179 Church
 †Carney, Edward F., 973 Grand av
 Carr, Jos. F., 36 Winchester av
 †Catton, E. A., 245½ Water
 †Catton, Thos. R., 16 Crown
 †Clerken & Co., 781 Grand av
 †Coe, C. E., 511 Howard av
 Coffey, J. H., 389 Grand av
 Connelly, Peter F., 325 Water
 †Corbett, T. W., 29 B'way
 †Cronan, J. C. & Co., 6 Church
 †Curtiss & Pierpont Co., 272 Elm
 Dean, John N., 135 B'way
 †Dibble, S. E., 639 Grand av
 Dorman & Cugell, 167 Congress av
 Edmondson, Alfred Co.
 †Edmondson, Geo. & Co., 956 Grand av
 †Flanagan, M. C., 194 Shelton av
 Flynn & Miller, 239 Congress av
 Godfrey, F. A. & A. E., W H
 Goodman, Francis T., W. H.
 Helmann, A., 143 Washington av
 †Herpich, Chris., 363 Congress av
 Hofmeister, C. F., W H
 †Hogan, J. J., 972 State
 †Howland & Parcells, 514 State
 †Igo, John E., 121 Dixwell av
 Igo, Jos. F.
 †Jarrett, A. E. T., 152 Temple
 Johnson, Nelson S., 29 Grand av
 †Kannegiesser, Ernest, 109 Asylum
 Keane, William & Son
 Kelly, John D., 161 George
 Keyes, James H., 595 Grand av
 Klimartin, James
 †Kling, Lawrence, 192 State
 Lattin, Robert N., 807 Whalley av
 Lettney, E. A., 72 Elm, W H
 Liddell, Robert, 53 Crown
 †Lonse, Edw'd E., 224 Campbell av
 †McDonald, W. H., 778 Grand av
 †McNamara, D. E., 147 Court
 †MacBrayen, Andrew M., 360 Dixwell av
 †Mahn, Jos. W., 571 Columbus av
 †Meagher, Thos. F., 30 Centre
 †Menzies & Menzies, 694 Chapel
 Michael, Abraham
 †Neumann, C. U., 48 Grant
 Phelps, J. M., 759 State
 Potter, Theo. A., 7 Centre
 †Rice, Thos. J., 538 State
 †Rourke Bros. Co., 834 Grand av

†Sheahan & Groark, 285 State
 †Sheehan, D. M., 108 Court
 Teasdale, Isaac
 †Tierney, Edwin R., 1226 State
 †Turbert, Thos. J., 73 Dixwell av
 †Urquhart, Duncan, 306 Grand av
 Wadsworth, I. N., 247 Elm, W H
 †Wright, O. S., 780 State

NEW LONDON—Ahern, Wm. D.
 Barker, H. N.
 Cann & Wodworth
 Downey & Brennan, 36 Bradley
 †Hilliar, B. H. & Son, 314 Bank
 †Jordan & Cleary, 109 Main
 Joseph & Seagrave
 †McPartland, Hugh
 Mallory, Amos
 †Mallory Co. (The), 166 Bank
 †Murray & Maher, 41 Main
 †Newman & Cronin, 33 Main
 †Roche & McGuire, 32 Green
 Russell, Patrick W., 20 Bank
 Sugrue, T. T., 29 Starr
 †Wiley & Kennedy

NEW MILFORD—†Beach, C. M.
 †McMahon, A. H.

NOROTON—Wood, James

NORWALK—Benedict, Arthur E., S N
 Britton, Geo. L., 82 Fort, E N
 †Brown & Co., 10 S Main
 †Burritt & Montgomery, 17 Main
 Donaldson, Thos. S., 32 N Main, S N
 Griffin, J. F., 200 Washington, S N
 †Heating & Lighting Corporation, 23 Main
 †Jones & Hotchkiss Co., 17 Wall
 Keogh, Thos. J., Washington, S N
 McKeon, F. J., 37 River
 Meeker, Geo. W., 44 Water, S N
 Meeker, Wm. H., 145 Water, S N
 Nash, Horace R., 98 N Main, S N
 Phillipson, Frank
 †Van Scoy, Frank C., 50 S Main, S N

NORWICH—Boyle, J. C.
 †Breed, Andrew H., 61 W Main
 †Brown, Robert & Son
 †Burns, Thos. F., 92 Franklin
 Carpelman, S., 12 High
 Colt, J. W. L.
 Cook, J. F.
 Dibble, R. Benton, 279 W Main
 †Dunn, J. C., N Main c 5th
 Graves, Fred. E.
 Holland, J. A., 55 Franklin
 †Monahan, Jos. P., 185 Franklin
 †Murphy, Chas. O., 259 Central av
 Murphy, James W.
 †Ryan, J. T., 26 6th
 Shugrue, J. J., 137 Water
 †Tompkins, J. F., 67 W Main
 Troland, John, 23 W Main
 †Wholey, Andrew J., 12 Ferry

PLAINVILLE—Dent, W. J.
 Hoerie, Fred.

PORTLAND—Ellsworth, H. W.

PUTNAM—†Chandler & Morse
 Field, S. A.
 Kenyon, R. L.
 †Putnam Foundry & Machine Corporation
 Rafferty, Wm. F.

RIDGEFIELD—Crouchley, Charles D.
 McGlynn & Whitlock

ROCKVILLE—†Butler, William & Son
 Kuhnly Plumbing & Heating Co.
 Scheibe, Henry
 Snow, Otis

SEYMOUR—Culverwell & Keer
 †Wheeler, H. G.

SOUTHINGTON—Ballou, William M.
 †Hancock, S. G.

SOUTH MANCHESTER—†Christensen, Harold
 †Moriarty, Hugh
 Trotter, T. M.
 †Wright, Geo. R.

SOUTH NORWALK—(See Norwalk)

STAFFORD SPRINGS—†Adams, Anthony
 Hodgson, C. P.
 Smith, W. H.

STAMFORD—†Broderick, T. H.
 †Brown, Jno. M.
 Dunn, James F.
 Feeks & Rutz
 McKeon & Devitt
 Passaro Bros.
 Raymond, Robert W.
 Raymond, W. M.
 Raymond Bros.
 Scofield Bros. & Co.
 †Stark Bros.
 †Wilson, Jas. & Co.

STONINGTON—†Chesebro, E. S.
 Hammond, Jos. H.

STRATFORD—†Beardsley, F. P. & Co.

THOMPSONVILLE—Brown, J. Vincent

†Leete, Arthur R.
 Mitchell, Mrs. Rose M.

TORRINGTON—Barber, W. V.

Bourke, W. J.
 Dwan, J. J.
 Morrison, W. H.
 Walker, W. R.

WALLINGFORD—Bowe, J. P.

†Gannon, Jas. T. & Co.
 Leonard & Hall Co.
 †McCormick Heating Co.
 O'Neil, S. J. & Co.

WATERBURY—†Barlow Bros. Co. (The), 63 Grand

Blansfield & Garvey
 Boiger & Murphy
 Ciancy, Mrs. Catharine
 Crimmins, James J., 33 Charles
 †Daly, M. J. & Sons, 553 Bank
 †Donnelly, M. J., 37 Union
 Fahy, M. J., 3 W Burton
 Garrity, Frank F.
 †Garrity, P. H., 221 Bank
 Gill, Jno. M., 294 N Main
 †Hardwick, Charles A.
 Hole, Sidney V., 168 E Main
 Keeler, H. W. Co. (The), 178 S Main
 Kibner, Wm. H., 274 Cherry
 †Levin, B. & Co., 282 N Main
 Lowe, Wm. H., 220 Cherry
 †Minor, G. W., 77 Grand
 O'Hara, M. F.
 †Thatcher, Charles Co., 39 Center
 Toncey, L. H. Co., 171 E Main
 Weyand, Henry Co., 16 Jeff'n
 Ziegler, E. F., 628 Bank

WATERTOWN—†Hitchcock Hardware Co.
 †Suffa, Joseph**WEST HARTFORD**—Wright, John**WEST HAVEN**—(See New Haven)**WESTPORT**—Estle, E. G.

†Taylor, F. N.

WEST WINSTED—(See Winsted)**WILLIMANTIC**—Johnston, Wm. S.

†Lyman, Hollis H., 628 Main
 †Moriarty & Rafferty, 41 Church
 †Vanderman Plumbing & Heating Co.,

WINDSOR—Gunning, T. J.

Ingleson, W. D.
 Wilbraham, G. F.

WINDSOR LOCKS—†Mooney, J. E.**WINSTED**—†Alvord, Jabez H., 450 Main

Barrett & Kennelley
 Holbrook, J. H.

Marsh, Fredk. W. & Son

WOODBURY—†Hitchcock, F. F.**DELAWARE.****DOVER**—Lawson, D. A.**LEWES**—Maull, Samuel**MILFORD**—Maag & Gray**NEW CASTLE**—Handy, E. W.**SMYRNA**—Faries, Wm.

†Sisco, C. W.

WILMINGTON—Barnett, Robert, Jr., 1808 Union

Biddle Bros., 102 W 8th
 Biscoe, Thos. J., 616 Orange
 †Brison Plumbing & Heating Co., 103 W 7th
 Dorsey, Archibald C., 1108 W 4th
 Dorsey, George L., 608 S Van Buren
 Downward, Leslie W., 504 Madison
 †Eaton, I. N., 413 Shipley
 Fox, David J., 232 French
 †Gawthorpe & Bros. Co., 102 W 4th
 Graves, Wm. M., 223 W 10th
 Grier, Robert T. & Bro., 221 W 7th
 Hanf, Herman E., 323 E 4th
 Harrington, Dennis J., 704 Orange
 Heine, Wm. H., 715 Shipley
 Hutton, Geo. C., 808 Shipley
 Hutton, Robert H. & Son, 225 Shipley
JENKINS & CO., 107 W 9th
 McKenney, Thos. B., 108 Madison
 †Mellon, Harry F., 6th c West
 Menton, Wm. I., 802 Tatnall
 †Miller, H. A., 617 Shipley
 Moseley, F. O., 818 Shipley
 O'Connor, John J., 103 Harrison
 Orpen, Wm. R., 5 W 3d
 Prandol, Peter G., 2116 Market
 Robelen, Wm. G., 623 Shipley
 Sharpe, Allen L., 706 Shipley
 †Shaw, Benj. F. Co., 3d c Orange
 Smith, W. E., 215 W 8th
 Stewart, Charles, 508 Shipley
 Walsh, Patrick F., 609 W Front
 Traynor Sanitary Co., 218 E 6th
 Ward, Geo. B., 1009 Market

DISTRICT OF COLUMBIA.**WASHINGTON**—†Albinson, James E., 1806 14th, n. w.

Allen & Van Horn, 1410 14th, n. w.
 Anadale, Jno. A., 1234 9th, n. w.
 Artz, Samuel, 3010 M, n. w.
 Atchison, Julius, 1314 14th, n. w.
 Ballauf, Daniel H., 1128 Florida av, n. e.
 Barnard, Edw., 1831 K, n. w.
 Barrick, Charles E., 1191 Mass. av, n. e.
 Baur, Jos. A., 468 K, n. w.
 Berry, Wm. O., 1009 E, n. w.
 Beuter, Max A., 606 D, n. w.
 Bond, Jos. D., 117 Pa. av, n. w.
 Bontz, Hy. C., 1210 9th, n. w.
 Brill & Hayden, 213 Pa. av, n. w.
 Brooks, E. F. Co., 531 15th, n. w.
 Brooks, Rufus C., 616 D, n. w.
 Busey, Walter I., 1411 Park rd, n. w.
 Caldwell, J. L., 2031 14th, n. w.
 †Casey, M. B. & Co., 918 6th, s. w.
 Caverly, Robert B., 504 10th, n. w.
 Clark, James B., 1114 H, n. e.
 Condon, Daniel D., 323 G, n. w.
 †Connor Bros., 1542 9th, n. w.
 †Conradis, William, 1025 7th, n. w.
 †Cummins, F. W., 922 G, s. e.
 Cunningham, Jas., 1408 Pa. av, n. w.
 Daly & Knightly, 1223 New York av, n. w.
 Darnall & Jones
 Dessez, Charles E., 1727 Pa. av, n. w.
 Dunigan Plumbing Co., 717 12th, n. w.
 Fillins & Hess
 Fingles, P. J.
 French, Irwin J.
 †Freund, Isadore & Co.
 Gaghan, Jno. & Co., 717 11th, n. w.
 Gates, Joseph C.
 Goodwin, Thomas L., 1326 9th, n. w.
 Gorman, Edw., 124 B, n. e.
 Goss, Wm. E., 308 Pennsylvania av, n. w.
 Grahe, Henry, 1119 10th, n. w.
 Green, Geo. A., 320 Pennsylvania av, s. e.
 Guerin, John R., 412 E Capitol
 Hanes, Geo. W., 812 14th, n. w.
 Hannan, Daniel J., 517 F, n. w.
 Hannan, Edw. J., 517 11th, n. w.
 Hannan, Daniel, 517 F, n. w.
 Hannan, Pat'k F., 1509 17th, n. w.
 Harrison, Jas. T. & Bro., Anacostia
 Herbert, Jos. A., 302 E Capitol
 Horan, Jas. F., 417 4½, s. w.
 Hnmphrey, Thos. & Son, 1335 F, n. w.
 Hurley, John W., 913 D, n. w.
 Hutchinson & McCarthy, 520 10th, n. w.
 Kaufman, Eusebius T., Tacoma Park
 Kennedy, F. B., 306 Pa. av, s. e.
 Kepple, Jno. A., 17½ H, n. e.
 Koch, Wm., 724 13th, n. w.
 Krause, John, 1020 18th, n. w.
 Lanahan, Jos. B., 108 H, n. w.
 †Lansdale, Elbridge G., 2720 M, n. w.
 Lauxman & Sincell, 1840 7th, n. w.
 Lockhead, Chas., 3058 M, n. w.
 Lockhead, Jas., 511 14th, n. w.
 McAvoy, Geo. F., 1332 H, n. w.
 McBee, Randolph, 1121 7th, n. w.
 McCann, John J.
 Martin, W. S., 736 13th, n. w.
 May, Peter J., 1112 Florida av, n. e.
 May, Thos. O., 1624 14th, n. w.
 Mendenhall & Waters, 1410 Pa. av, n. w.
 Mooney, William J., 730 11th, n. w.
 †Moran, Jno., 1146 Conn. av, n. w.
 Mulcare, J. E. & Co., 1303 H, n. w.
 Murphy, Daniel J., 1104 Conn. av, n. w.
 Myers, Edmund B., 1002 9th, n. w.
 Niland, P. T., 2021 M, n. w.
 Nolan, James & Sons, 721 14th, n. w.
 Noonan, Timothy V., 137 Todd pl, n. w.
 O'Connor, Daniel I., 1262 Wis. av, n. w.
 O'Connor, Dennis T., 202 G, n. w.
 O'Donnell, Wm. F., 1248 7th, n. w.
 Poore, Aloysius
 Powell, Wm. T., 1602 3d, n. w.
 Power, J. A., 430 10th, n. w.
 Pruitt, Norman, 814 H, n. w.
 Quinter, Jos. R. & Son, 1414 R. I. av, n. w.
 Regan, Cornelius, 906 H, n. e.
 Rose Bros., 1809 14th, n. w.
 Rothwell & Son, 1120 18th, n. w.
 Schaefer, P. C., 139 B, s. e.
 Schaffer, Geo. W., 223 D, n. w.
 †Shedd, S. S. & Bro. Co., 432 9th, n. w.
 Shields, William & Co., 1218 Pa. av, n. w.
 Stelzer & Whittington
 Stutz, Geo. F., 1100 Q, n. w.
 Sult, H. T. & Bro., 619 Pa. av, s. e.
 Sult, James E., 819 9th, n. w.
 Suman, James L., 902 8th, n. w.
 Thomas, Wm., 913 G, n. w.
 Thomas, Wm. A., 907 9th, n. w.

Tilp, Fred'k, 804 M, n. w.
 Uhler & Co., 7th c K, s. w.
 Umhau, Christian F., 1714 7th, n. w.
 Venabic, Frank W., 515 Va. av, s. e.
 Volland, Edw., 1724 5th, n. w.
 Ward, Wm. N., 220 H, n. w.
 Welsh Bros., 736 14th, n. w.
 Wenger, Charles L.
 Williamson, Donald S., 605 N. Y. av, n. w.

FLORIDA.**BARTOW**—Bussard, J. E.

Reed, C. E.

Whidden, W. J. J.

DAYTONA—Carmichael, J. D.

Green, Spencer B.

Osborne, Jos.

FERNANDINA—Mann & Swain

Mayfield, D. A.

GAINESVILLE—Roux, F. A.**JACKSONVILLE**—Ballou, Geo. F.

Bours, S. G. & Co.

Clarke, Wm.

Clarke, Wm. F.

Coons & Golder

East Coast Plumbing Co.

Florida Plumbing & Electric Corps.

Gilbert & Forbes

Hooker & Lightbody

Keefe & Ball

Kuchler, Jacob E.

Macy & Johnson, 319 Laura

Race-Carter Co.

Rathbone, D. L.

Roberts, Luther M.

Tutt Plumbing Co.

KEY WEST—†Costar, M. R., 121 Simonton**LAKE CITY**—Booker, Geo. C.

Scruggs Bros.

LAKELAND—Lakeland Plumbing Co.**LIVE OAK**—Buser, J. F.**OCALA**—Florida Plumbing & Electric Co.

Needhan, T.

ORLANDO—Hyer & Rollins

McBride, J. P.

Spier, Clinton E. & Co.

PALATKA—Griffin, Martin & Co.

Kennery Pipe Fitting & Plumbing Co.

Points, J. D. & Co.

PENSACOLA—Turner, C. H.

†Wicke & Co.

ST. AUGUSTINE—†Hamblen, C. F.

Libby, Jos. C.

ST. PETERSBURG—St. Petersburg Plumbing Co.

Singlehurst, F. R.

Wickersham & Roesselle

TALLAHASSEE—Horton, John H.

Rozear, S. P.

†Yaeger, L. C.

TAMPA—Berry, W. J. & Co.

Coates Plumbing Co.

Johnson & Giles

Lau, K. Richard

Ronco, Jos.

Shea, D. W.

Tampa Plumbing & Supply Co.

Yonge Bros.

GEORGIA.**ALBANY**—Bell, W. S. & Son

Eatman, R. C.

Frank, C. A.

Harris Plumbing Co.

AMERICUS—Payne, C. P.

†Schroeder, W. H. R.

ATHENS—Allgood & Lumpkin

Bailey, D. W.

Dornblatt Plumbing Co.

ATLANTA—Atlanta Plumbing Co.

Belcher-Gullatt Plumbing Co.

Bellingrath Plumbing Co., 25 Pryor

Bowen, J. R., 51 S Pryor

Farrell Heating & Plumbing Co., 8 N Forsyth

Ford, M. E. & C. W., 13 S Broad

Franklin Plumbing & Tinning Co., 123 Whitehall

Gardner & Sievers, 10 W Alabama

Haskell, E. V. D., 116 Courtland

Hunnicut-Turner Plumbing Co.

Jennings, Gresham Co., 16 N Forsyth

Johnson & Dedmond

Loftis Plumbing Co., 23 E Hunter

Meil Plumbing Co., 63 S Pryor

Melson, L. J., 142 Whitehall

O'Shields, R. F., 12 E Hunter

Reynolds & Son

Stephenson Bros.

Stockton, B. F., 24 S Pryor

Union Plumbing Co., 12 Auburn

Vandiver, M. C., 46 N Pryor

Wingate, Oliver, 127 Edgewood av

Yarbrough, D. W., 20 E Hunter

AUGUSTA—Brittingham, Duffy & Co.
†Erbelding, E. J., 743 Ellis
Morris Plumbing Co.

BAINBRIDGE—Morgan, Ivan D.
Schultz, W. G.

BARNESVILLE—Hawkins, R. E. Lee
Van Houten, J. M. & Co.

BRUNSWICK—Cobb & Wheeler
†Daniels, Moses
Gilmore & Wood
Hoyt & Co.
Weller, J. T.

CARTERSVILLE—Lumpkin Bros.

CEDARTOWN—Cedartown Plumbing Co.
Chapman Plumbing Co.

COLUMBUS—Billings, J. D.
Davis Plumbing Co.
Fee, Mrs. Wm., 940 Broad
Jones, C. A.
Jones & Garrett

CUTHBERT—Hall & Ross

DALTON—Gardner, J. H.

DAWSON—Clay, S. J. & Co.
Miller, W. L.

DUBLIN—Illing, L. A.
Kirke, H. M.
Turlington, W. T.

ELBERTON—Elberton Heating & Plumbing Co.

FORT VALLEY—Everett, J. L.

GAINESVILLE—Moss, W. R.
Pierce & Francis Co.

HAWKINSVILLE—†Arnold Heating & Plumbing Co.
City Plumbing Co.
Hawkinsville Supply Co.

LA GRANGE—Simrie, L. M.

MACON—Bibb Plumbing & Heating Co.
Central Georgia Plumbing & Heating Co.
Gormaley, Jas. C.
Meath, M. J.
Miller, C. T. Plumbing Co.
Suber Co. (The)

MARIETTA—Dobbs Hdw. Co.
Schilling, F. E. A.

MILLEDGEVILLE—Hall, W. H. & Co.
Hancock, F. S.

NEWMAN—Martin, T. M.
Sexton, W. L.

QUITMAN—Cannon-De Loach Co.
Dukes & Chenoweth Co.

ROME—Elliott, J. W. & Co.
Gowen, T. M.
Home Plumbing & Electric Co.
Hoyt Plumbing Co.
Rome Supply Co.

SAVANNAH—Barfield-Chapman Co.
Broderick, E. F., 242 Drayton
Campos, F. W. Plumbing Co.
Collins, James T., 211 Whitaker
†Cornwell & Chipman, 108 W Congress
Cosgrove, W. H., 123 Drayton
Downey, J. W. & Co.
Dunn, W. F.
Kiernan Plumbing Co., 10 W State
McCarthy, L. A. & Son, 142 Drayton
Masters, P. E., 209 Whitaker
Meyer, H. J., 122 Jones, E
National Plumbing Co.
O'Brien, T. J., 143 Whitaker
Prescott & Smith
Seckinger & Kane

THOMASVILLE—Grant, J. B.
Hart, H. J.
Thomasville Plumbing & Heating Co.
Varney, Jos. H.

VALDOSTA—McGhan, George & Son
Rouse, Roscoe

WAYCROSS—King, A. C. & Co.
Waycross Plumbing Co.

HAWAII.

HILO—Cameron, J. M.

HONOLULU—Aki, S. K. & Co., 1028 Smith
Akimoto, M., 183 N Hotel
Barth, E. R., 165 S King
England, W. J. Plumbing Co., 121 S Hotel
Gehring & Butzke, 784 S King
Graham, W. W.
Kuster & Co.
Let, G. W., Smith nr Hotel
Nott, Jas., Jr., 1048 Alakea
Nott, John, 85 S King
Phillips, John
Pillares, A., 1126 Union
Quinn, E. W., 1168 Union
Wing Hop Chong, 469 N King
Won & Loui Co., N Hotel nr Smith

IDAHO.

BOISE—Acme Plumbing Co.
Idaho Hardware & Plumbing Co.
Liberty Plumbing & Heating Co.
Whitman, C. R.

COEUR D'ALENE—Dezzell, J. W.

IDAHO FALLS—Blockie, G. E. & Co.
Griffeth's Hardware & Plumbing Co.
McMullen Heating & Plumbing Co.

LEWISTON—Hahn, Chas.
Ingram, H. L.
Naylor & Norlin

MOSCOW—Barton & McClellan
Vroman, A. L.

POCATELLO—Greene & Higson
Stevens, C. E. & Co.

WALLACE—Coeur d'Alene Hardware Co.
Stimson, Wm.

WARDNER—Rosenholz, Carl A.

ILLINOIS.

ALTON—†Alton Plumbing & Heating Co.
Busse, Richard, Jr.
Curdie, Robert & Co.
Independent Plumbing & Electric Co.
Klunk & Heskett
Nixon, R. D.

AURORA—Bevier & Hermes
Connors, John
Dewey, Chas. W.
Divekey Bros.
Holst, John
Krumlauf, L. D.
Mullen, Wm. J.
†Ruddy, J. J.
†Taylor & McGuire
Trauten, John J.
†Walters, T. E. Plumbing & Heating Co.
†Zack & Mylius
†Ziegler Plumbing Co.

BATAVIA—Barkley, John & Son
Ruddy & Co.

BEARDSTOWN—Raycroft, Jas. T.

BELLEVIEW—Ehret, Obst Plumbing & Heating Co.
Hirth & Goss
†Karr Supply Co.
Ralph, P. J.
Stoltz Supply Co.
West End Supply Co.

BELVIDERE—Fellows, J. H. & Son
Ray, George H.

BLOOMINGTON—Donlon, Frank
†Loudon, Robert
Lowry, John P.
McCarthy, Maurice C.
†McGregor, R. R. & Co.
†McIntosh, George M., Jr.
†Morrison, Frank
†Peterson, V. L.
†Sullivan, Frank T.

BLUE ISLAND—Link & Kleber
Pronger Bros.

BUSHNELL—Hunt, R. L.
Wigert, Mrs. J. C.

CAIRO—Boyle, Wm. J.
†Gannon, Thos. W.
Gilmore Bros.
La Hue Bros.
O'Shea, J. J.
Walker, M. J.

CANTON—Eshelman, C. E.
Gillett, Allen P., W. Elm
†Luker Bros.
Murphy, J. P.

CARLINVILLE—Sexton, Daniel E.
Siegel, George

CARMI—Leathers Bros.

CARROLLTON—Black, J. M.
Jackson & Stone

CARTHAGE—Abbott, Edw. F.
Reyer Fred.

CENTRALIA—Cunningham & Co.
Fowler Bros.
Willard Bros.

CERRO GORDO—Mikels, Booker & Son

CHAMPAIGN—†Magoon & Maley
Moran & Miller
Quirk & McGrath
Reinhart & McKinstry
Reliable Plumbing & Heating Co.
†Robinson, E. A.
†Wright, A. J.
Young, Roy E.

CHARLESTON—White, Fred.
White Plumbing & Heating Co.

HESTER—Weinrich, C. F.

CHICAGO—Abrahams, Max, 3142 Indiana av
Adams, William M., 1570 W North av
Adler & Co., 211 35th
Altken, Alex., 215 W 12th

Alcock Plbg. Co., 98 22d
Allen & Sandy, 86 S Desplaines
Alles, A., 235 Lincoln av
Alles, Frank, 463 E Division
Amhaus Bros., 1019 Armitage av
Anderson, Matthew & Son, 69 35th
†Arcade Steam Heating Co., 70 Lasalle
Armbruster & Farrell, Pullman bldg
Arnold, Robert J., 507 S Western av
Arnold, Wm. P., 1106 W 12th
Ashby, James, 5911 S Spaulding av
Atkins, Robert W., 530 W 14th
Babcock, Fred H., 12010 Parnell av
Bachtold, Chas. E., 714 W 120th
Baggott, E. Co., 169 Adams
Bahn, Alvin W., 393 W Ravenswood pk
Bahn, W. F., 1081 Southport av
Baler, Frank, 841 Wellington
Bain, L. R. & Co., 631 W Madison
Barnard, Louis G., 1514½ W Madison
Barrett, Jas. J., 163 Randolph
Barry, David J., 23 N 48th av
Barta Bros., 781 W 12th
Bates, Thomas H., 4706 Indiana av
Baumgartner, A. J. N., 6218 Lincoln
Baumhardt, J. B., 749 N Wells
Beattie, E., 1622 Wabash av
Beauchamp, Wm. C., 11413 Michigan av
Becker, Jacob P., 641 Sedgwick
Becker, Peter & Co., 628 S Ashland av
Beggs, Thos., 85 Randolph
Benning, Edmund J., 1424 Belmont av
Bensinger Plumbing & Heating Co., 501 E
Berg, M. & Son., 366 W Taylor 47th
Berndt, Julius C., 520 Roscoe
Bieger, Chas., 2644 Cottage Grove av
Biggers, A. A., 614 W Harrison
Binder, Jno. F., 66 Lake
Bird, Oscar P., 336 Lawrence av
Bittel, Edward & Co., 166 S Clark
Blaszczynski, Adam, 648 W 17th
Blythe, Walter J., 658 W Division
Robek, Joseph, 860 W 20th
Boeher, John, 1204 Lincoln av
Boersma, S. A., 10950 Mich av
Boettin, P. C., 682 W Chicago av
Borvig Bros., 670 N Western av
Boss, August H., 886 N Halsted
Bovee, Nicholson & Co., 4554 Cottage Grove
Bowden, Wm., 238 25th av
Bowman, Wm. J., 670 W Chicago av
Boyd, Chas. J., 709 W 47th
†Boyd & Co., 33 Dearborn
Boyle, D. T. & Co., 667 W Congress
Bradley, Jas. H., 8026 Vincennes rd
Brady, Chas. A., 318 W Belmont av
Braverman, David, 379 W 12th
Breetzke, G. H., 1005 W 63d
Brenan & Patek, 39 N Wood
Brennan, Daniel G., 117½ Dearborn av
Breyer, Chas C., 187 W Division
Breyer, Henry, Jr., 1725 Milwaukee av
Brill, G. J., 528 S Halsted
Britt & Bauer, 313 Sheffield av
Brooks Bros., 1091 W Harrison
Brown, Hy. F., 49 N 48th av
Brown, W. E., 852 Walnut
Brown, Wm. J., 1958 N Halsted
Bruckner, Chas. F., 463 E 26th
Brunt, John W., 9120 Erle av
Bryson Bros., 322 W 63d
Bryson, Elmer D., 450 W 63d
Bubeck, Peter, 2616 Wentworth av
Burns, Daniel, 161 E 43d
Burns, G. B., 231 S Prairie av
Burns, J. J., 1658 35th
Burns, John W., 5648 Jefferson av
Burns & Chladek, 7339 Cottage Grove av
Rusch, Arthur J., 1503 Diversey boul'd
Butler, James G., 184 53d
Butler, J. J. & Co., 184 53d
Butts, F. E., 6306 Lexington av
Byrne, Jas. J., 2849 Archer av
Byrne, Michael, 1648 W 69th
Byrne & Ryan, 4308 Cottage Grove av
Calahan, John, 1194 Sheffield av
Cameron, Alex. M., 135 W Van Buren
Canavan, John P., 5207 State
Cannlng, A. P., 1958 Evanston av
Cannon, John & Son, 11323 Michigan av
Carlson, Frank W., 1507 N Clark
Carmichael, Jas., 109 S Western av
Carty, J. J., 703 W 63d
Casey, Anna R., 367 W 15th
Cashin, John, 334 Orleans
Cashion, J. J., 105 W Taylor
Charpier, Walter, 1422 W 103d
Chicago Heating & Plumbing Co., 4618
Champlain av
Chilvers, Abraham L., 984 W Harrison
Christiansen, Louis, 1557 Milwaukee av
Christopherson, Henry, 504 N California av
Clancy, James, 215 Ogden av

Clausen, Louis A., 1936 Milwaukee av
 Claussen & Stark, 564 Sedgwick
 Clayton & Bartels, 1046 N Western av
 Clifford, Jno. T., 1317 W Van Buren
 Clinton, Jas. C., 1183 W Madison
 Coleman, Rupert, 929 1/2 N Clark
 Coles, Wm. G., 194 S Western av
 Collins, J. M. & Co., 352 E 37th
 †Coulin, Thos. Plumbing & Heating Co. 3978
 Cottage Grove av
 Connell, Jno. F., 707 Grand av
 Connelly & Bohne, 4920 S Ashland av
 Connor, T. G., 577 43d
 Connors, Jno. J., 256 31st
 Conway, Thomas, 612 W 63d
 Cook, Jno. E., 138 N Wells
 †Cook & Chick Co., 253 Kinzie
 Cook & Mangan, 1802 Wabash av
 Corbett, A. J., 2409 Cottage Grove av
 Corhoy, Michael J., 78 Dearborn
 Corcoran, Jno. L., 807 W Madison
 Corderman, E. E., 702 W Lake
 Coupland, James, 4815 Cottage Grove av
 †Cragin, Morgan J., 285 43d
 Crane & Mitchell, 132 Franklin
 Cregan, Patrick, 505 39th
 Cregan, P., 505 E 39th
 Creighton, Walter B., 1345 W Lake
 Crowley, Hugh J., 680 W Van Buren
 Crowley & Kruger, 544 W 79th
 Cummins, W. H., 1455 W Madison
 Cunneen, M. A., 973 N Robey
 Dalton, Thos., 625 W Van Buren
 Daly, Jos. J., 87 5th av
 Daum, Herman, 5320 Ashland av
 Davey, Samuel T., 461 Lincoln av
 Davldson, Wm. A., 161 Van Buren
 †Davis Construction Co., 41 Dearborn
 Davis, Gustave S., 5813 Wentworth av
 Deckert, L. J., 8740 S Wood
 Dawson, Thos., 1922 Archer av
 Deddo, Michael, 116 Park pl
 Degnan, John, 331 Wabash av
 Delehant, Jno., 754 W 47th
 Denniston, John A., 145 N Clark
 †Deppmau, L. & Co., 163 Randolph
 De Veney, Jas. H., 2403 Indiana av
 Devlin, Harry J., 766 E 43d
 Dietcher, John S., 4 Higgins av
 Dillenburg Bros., 1509 W 51st
 †Dilzer, F. C., 48 Dearborn
 Diver, John T., 1457 W 47th
 †Dixon Steam System Co., 169 S Canal
 Dolan, Edw. E., 341 Loomis
 Dolan, Thos. J., 5150 S Halsted
 Donat, Jos. L., 1125 S Spalding av
 Donlan, Thos. E., 1244 W 68th
 Donoghue, Chas., 1242 W Congress
 Dornbos Bros., 870 W 21st
 †Douglass, Thos. J. & Co., 52 Dearborn
 Downey, Jno., 310 W Garfield boul
 Downs, Michael J., 5538 S Center av
 Downs, Wm., 4031 State
 Doyle, Jas. J., 6040 S Halsted
 Dreier, Chas. A., 463 47th
 Dressel, Oliver N., 324 S Albany av
 †Drew, Edward D., 356 Dearborn
 Duffy, Thomas E., 6704 State
 Dullard, Wm., 4105 State
 Dunne, Jno. P., 775 Lincoln av
 Dunphy, Richard, 6560 Wentworth av
 Dwyer Plumbing & Heating Co., 210, 40
 Eadie, W. S., 3248 Prairie av Dearborn
 Eck, Geo., 2208 Archer av
 Edison, J. H., 216 S Clark
 Eeles, Jas. A., 455 W Lake
 Erhardt & Gotha, 305 Clark
 Eichenbaum, Paul, 960 Armitage av
 Eichler, A. C. & Co., 2453 Wenworth av
 Eichler, Wm. A., 2110 Indiana av
 †Elliott, Jos. L., 275 E 55th
 Elmendorf, Albert, 10420 S Ward
 Emblen, Jos. L., 3020 Michigan av
 Erb, Frederick, 502 N Wells
 Erman & Co., 527 E 47th
 Evans, Jas. J., 4255 State
 Fagan, John J., 1904 W Chicago av
 Falbisaner, Adolph J., 1245 Seminary pl
 Falk, Frank, 488 Nohle
 Farwell, Bernard J., 42 Sherman
 Febr, Gustav A., 76 Canalport av
 Febrenkamp, Wm., 329 92d
 †Feldkamp, Geo. J., 351 E 63d
 Felthouse, John, Jr., 1254 W 59th
 Feltman, Peter, 2472 N Central Park av
 Fethler, Geo., 1368 N Halsted
 Fienberg, Harry, 771 Milwaukee av
 Finkelstein, Max, 280 W 14th
 Finley, Chas. P., 3926 Ridge av
 Finn, Richard R., 138 35th
 Flisher, A. J., Plumbing Co., 1606 Lincoln av
 †Fitch Co., 3738 Cottage Grove av

Flanigan, Jno. C., 225 E 51st
 Foley, Pat'k J., rear 3448 Wabash av
 Forster, John J., 772 W 12th
 Foskett, Daniel E., 1542 Fulton
 Franklin, Geo., 1270 E Ravenswood Park
 Franklin Plumbing Co., 2521 State
 Fuller, Herbert P., 156 S 40th av
 Fullmer & Ball, 155 Wash'n
 Gallagher, Pat'k J., 8952 Commercial av
 †Gallaher & Speck, 295 5th av
 Gannon, Jno., 832 W 62d
 Garrabrant, Anze, 6739 S Halsted
 Garvey, Joseph J., 1399 W 12th
 Gaskin, A. A., 19 S Mozart
 Gay & Culleton, 50 N Clark
 Geary, Thos. F., 58 31st
 Geiss, Ignatz J., 544 W North av
 Gellert, Louis H., 811 N Western av
 Gerke & Knight, 2918 Archer av
 Gilbert, Frank V. & Co., 10 S 52d av
 Gill, J. J., 5154 Wentworth av
 Gillmore, Thos. J., 753 W Madison
 Glavin, Jno. B., 4745 State
 Gleason, F. P. & Son, 477 Wabash av
 Glotzbach, Jno., 156 5th av
 Gollner, Philip, 1466 33d
 Good, Samuel, 3448 Indiana av
 Goodhrand, Jno. A., 3133 Cottage Grove av
 †Gordon Plumbing & Heating Co., 738 E
 Gordon, Robert, 33 W Monroe 47th
 Gormley, Frank, 3609 Archer av
 Gow, Peter, 858 N Rockwell
 Graham, Jno. E., 1087 N California av
 Graham, Wm. & Co., 434 N Clark
 Grant, G. V. & Co., 973 N Halsted
 †Graves, W. B., 45 Lake
 Greenberg, C. & Co., 1061 Milwaukee av
 Griffith, Robt. Co., 427 N Clark
 Grosch, Fred, 748 Armitage av
 Gundermann, Jno. C., 317 Clybourn av
 Gundermann, Phil. H., 236 Bissell
 Gunn, Daniel, 375 S Clark
 Hagemann, W. T., 1289 W Ravenswood pk
 Hahn, O. W., 10046 Eging av
 Halpin, Nicholas J., 314 W 47th
 Hamblin Plumbing Co., 95 De Kalb
 Hamblin & Brooks, 598 Ogden av
 Hamilton, Harry, 987 N Clark
 Handler, B., 46 Blue Island av
 Haney, Jno. V., 220 S Kedzie av
 Hanley-Casey Co., 45 Ohio
 Hanrahan, William, 869a 35th
 Hanson, Joseph, 1438 Wabash av
 Hardin, Daniel, 3139 Indiana av
 Harkins, Louis V., 640 N Clark
 Harper, Jno. W., 1419 Armitage av
 Hart, Clifford, 2498 45th av
 Hartung, E. Max, 319 Sedgwick
 Harvey & Nielson, 680 W North av
 Hauslein, E. E., 1194 N Halsted
 Hauslein, George F., 80 Fullerton av
 Hayes & Co., 2961 Evanston av
 Heantsch, R. R., 5527 Wentworth av
 Heath, Geo. M., 975 E 51st
 Heintz, Jno. P., 1221 Argyle
 Hennessey, Edw., 266 35th
 Hennessey, Jas., 297 61st
 Henry, Andrew R., 5736 Wabash av
 Herbert, Chas. J. & Son, 326 Dearborn
 Herda, C. C., 622 W 21st
 Herrman, Otto W., 427 W Fullerton av
 Hess, Wm. O., 5244 State
 Heymann, Otto, 300 Washburn av
 †Hickey, A. C., 75 W Madison
 Hickey, Thomas J., 274 Rush
 Hilderbrecht, Arthur J., 172 N Clark
 Hill, George, 6007 State
 Hill, Saml., 1328 Ogden av
 Hillshoff, Alex, 4840 N Clark
 Hilton, Robert, 213 Randolph
 Hirschman, J. B., 389 E 63d
 Hocking, R. D., 619 W 69th
 Hodges, Matthew, 354 Lincoln av
 Hoffman, John, 2967 Cottage Grove av
 Hoffmann, Keva, 528 W Taylor
 Hojda, V. J., 1823 W 47th
 Hollander, Oscar J.
 Holmes, R. E. & Co., 6308 Wentworth av
 Hoy, Wm., 531 37th
 Huber, P. H., 5519 Jefferson av
 Hudon, L. W., 2037 38th
 Hulbert & Dorsey, 211 Randolph
 Hynes, Michael L., 5252 S Halsted
 Ingram, Wm., Jr., 1258 E Ravenswood pk
 Innes & Glennie, 3124 Cottage Grove av
 †Innes & Graham, 1803 Wabash av
 Jack, D. T., 893 W Lake
 Jacoby & Co., 42 E Belmont av
 Jaquest, Wm. R., 3528 S Wood
 Jaeschke, P. H., 72 Center
 James, J. R. & Co., 247 W 63d
 Jespersen, Christian, 1358 Lincoln av
 Johns, William J., 887 W North av

Johnson, Arthur O., 859 N Western av
 †Johnson, Nels H., 610 Wilson av
 Jones, Alfred, 9212 Commercial av
 Jones, Otto F., 677 S Halsted
 Jostes, Henry, 108 W 113th
 †Juergens, L. & C., 1274 W Madison
 Jurs, John J., 1595 Milwaukee av
 Kaiser, Edmund B., 23 Janssen av
 Kaleher, J. H. & Co., 123 E 43d
 Kallal & Trirner, 210 Ewing
 Kaplan, Edw., 637 Milwaukee av
 Kaplan, Louis, 3448 State
 Kapsa, Rudolph, 454 S Jefferson
 Keefe, Luke, 2027 N Ashland av
 Kehm Bros. Co., 226 Kinzie
 Kehm, Edward, 84 Willow
 Keidel, Jos., 816 35th
 Keiser, Frank, 2076 N Ashland av
 Kelly, Jno. J., 521 W Taylor
 Kelly, Leonidas L., 291 Ontario
 Kelly, W. D., 1450 W North av
 Kemp, John, 5315 Lake av
 Kendrick, Fred. J., 3635 State
 Kennedy, D. Z., 11,513 Michigan av
 Kersten, Samuel, 219 Van Buren
 Khym, John A., 318 W 48th pl
 Kiessling Bros., 1199 Milwaukee av
 King, Peter, 9 N Kedzie av
 Kinsella, Daniel E., 7307 Vincennes rd
 Klahre, Henry J., 83 N Clark
 Klein, B. C., 4634 Cottage Grove av
 Kleker, John, 4630 S Marshfield av
 Klemz, Fred & Co., 1086 N Leavitt
 Knauss, Wm. F., 359 N State
 Kneisly, Wm. S., 24 26th
 Koepke, Ludwig H., 249 W Division
 Kohl, Albert, 1125 S Kedzie av
 Kostlevy, Chas., 218 W 18th
 Kotva, James, 7633 Jackson av
 Kramp, Wm., 630 W 12th
 Kratz & Schlitz, 7111 Halsted
 Kroeschell Bros., 29 Erie
 Krueger, Charles, 3262 Norwood Park av
 Kurz, John F., 3111 State
 Ladd, John C., 1106 75th
 Lang, Wm. J., 538 Division
 Langhor, Louis G., 675 S Halsted
 Larson, Andrew, 203 Oak
 †Larson, Gustav A., 267 E 57th
 Lavin & Co., 4522 Cottage Grove av
 Lawrence, Chas. S., 1315 W Madison
 Lawson, Jas. G., 3208 N Clark
 Le Blanc, David F., 6539 S Halsted
 Leibrandt, Fred'k F., 3029 State
 Leisten, Jos., 239 Janssen av
 Levit, Samuel, 404 Blue Island av
 Levy, David, 487 S Halsted
 Levy, Louis H. & Sons, 3716 State
 Levy, Louis I., 5833 State
 Levy, Meyer, 784 47th
 Linstedt, Jno. A., 1697 N Clark
 Lindvall, R. & Co., 5841 Throop
 †Lingenfelter, William, 5233 W Kinzie
 Liss, Otto, 1987 N Robey
 Liss, Robt., 452 Belmont av
 Livingston, Solomon, 3213 State
 Lodeski, James, 2072 W Adams
 Loesch, Martin, 254 N Clark
 Lonla, S., 908 W 12th
 Luder Plumbing Co., 395 N Wells
 Lundgren, Chas. M., 1134 W 61st
 Lutz, Wm. F. J., 2215 N Ashland av
 Lynch, Jno. J., 6534 Cottage Grove av
 Lynch, M. F., 4740 State
 McAssey, Jno. J., 23 N Homan av
 McCann, Andrew, 4650 Calumet av
 McCuen, F. S., 3756 Cottage Grove av
 McCusker, Henry, 971 N Rockwell
 McDermott, John M., 11 Clark
 McFarland, Geo. W., 529 W Van Buren
 McFarlane, J. Andrew, 954 W 21st pl
 McGarr, Frank, 1642 W 63d
 McGarry, Peter B., 461 Grand av
 McGarry, Peter C., 73 Armour
 McGetrick, Jno., 329 S Western av
 McInerney, Wm. M., 447 63d
 McInnes, Wm. & Son, 973 W Lake
 McKittrick, Jas. J., 4723 S Halsted
 McLellan, Jas. A., 2097 W Lake
 McLogan, John & Co., 43 Harmon pl
 McWilliams, Walter A., 5841 Wentworth
 Maas, Geo., 402 Roscoe av
 Macdonald, F. J. & Co., 526 Sheffield av
 Machalitsky, Frank, 618 W 18th
 Maciejewski, A., 685 Nohle
 Macneil, A. W., 230 E 35th
 Madigan, Michael J., 224 N Park av (A)
 Mahoney, Chas. J., 2954 Haynes ct
 †Maloney, P. T. Co., Chamber of Commerce
 Mallow, Wm. L., 1912 Lincoln av bldg
 Mandable, Matthew L., 2320 Cottage Grove av
 Manthie & Havlick, 391 W Diversey av

Marofsky, Wm., 762 N Ashland av
 Maroun, Fred'k W., 359 W North av
 Martin, Chas. P., 6434 Loomis
 Martin, W. S., 450 55th
 Martinek, James P., 1216 S 40th av
 Marwedel, A. E., 445 N Clark
 Matchen, Hy., 2444 Lincoln av
 Mawn, J. F., 191 31st
 Maypole, A. M., 816 W Van Buren
 Meima, Harry, 239 Milwaukee av
 Melbye Bros., 158 Webster av
 Melville, Geo., 894 W Harrison
 Melville, R. B., 9117 Commercial av
 Meyer, Wm. A., 1054 N Western av
 Michels, C. N. Co., 2573 Evanston av
 Miliar, Robert M., 2459 Cottage Grove av
 Millar, Wm. E., 690 W Lake
 Miller, Benj., 162 W 12th
 Miller, John H., 638 Nelson
 Miller, Samuel, 251 14th
 Miller, William J., 349 W Chicago av
 Milward, O., 318 Evanston av
 Mitchell, Hy. H., 568 43d
 Mitchell, Isaac J., 85 E 43d
 Mitchell, Jesse E., 2196 38th
 Mlttag, Herman, 1081 W Fullerton av
 Moe, Reidar, 140 75th
 †Moloney & La Franchise, 5434 S Halsted
 Molter, Nicholas P., 371 Janssen av
 Morris Bros., 3442 S Halsted
 Morrison, Andrew, 137 Cheltenham pl
 Morrison, Jno., 443 W 63d
 Mortimer, A. E., 219 Washington
 Moston, Ed., 142 Monroe
 Moston, Wm. H., 184 Adams
 †Mourant, Arthur, 4318 Cottage Grove av
 Mueller, H. F., 42 Madison
 Mueller, William, 261 Wabasha av
 Muilen, Jas. H., 368 E 63d
 Muller, Israel, 441 S Halsted
 Muller & Groll, 252 43d
 Mundt, Chas., 1829 Milwaukee av
 Murphey, Jas. C., 266 W Harrison
 Murphy, Michael J., 171 N Clark
 Murphy & Keeley, 65 Harrison
 Nacey, P. Co., 317 Wabash av
 †Nash & Hama, 2216 Wabash av
 Naughton, Jas. C., 923 W Madison
 Neill Bros., 512 43d
 Nelson, Jno., 313 W. Ohio
 Nelson, Lewis, 213 Grand av
 Neybert, Otto J., 2449 Archer av
 Nilson Bros., 154 Oak & 1514 Belmont av
 †Noble & Thumm, 292 Lincoln av
 Nugent, Wm., 448½ W Madison
 Nutzhorn, Henry B., 1184 W North av
 O'Brien, Chas. W., 3606 Rhodes av
 O'Brien, Edw'd F., 371 W Van Buren
 O'Brien, James J., 2139 W 12th
 O'Brien, Jas. P., 293 Grand av
 O'Brien, Jno. J., 432 S. Calif av
 O'Brien, M. S., 553 Grand av
 O'Donnell, Martin J., 756 W 120th
 O'Dowd, J. F., 624 Grand av
 O'Hare, Jno., 5004 State
 Oilphant & Liddell, 268 W Madison
 Oliver, George, Jr., 6326 Cottage Grove av
 Olson, C. Edward, 356½ W Lake
 Olson, J. H., 649 47th
 O'Malley, Ira J., 89 E Lake
 O'Malley, Jos. E., 215 N Wells
 O'Malley, Thos. J., 185 Oak
 Orne, Henry G. & Co., 9406 Cottage Grove av
 O'Shea Bros., 1969 N Clark
 Ostrander, J. H., 299 Rush
 Otis, Ferdinand, 30 Rush
 Otter, J. J., 818 W 43d
 Overend, Geo., 23 26th
 Page, F. W., Jr., 1593 Armitage av
 Pagel, Albert C., 433 W 67th
 Patrick, Robert Plumbing Co., 3960 Cottage
 Paulick, Charles, 6935 Loomes Grove av
 Pearson, Frank E., 1834 N Kedzie av
 Pedersen, M. J., 119 Grand av
 Perdisatt, Patrick F., 2905 State
 Perkins, F. H., 10 S Kedzie av
 Peters, John J., 631 Otto
 Peterson, Albert, 219 W Erie
 Peterson, Merit H., 8851 Commercial av
 Poll, Frederick F. & Son, 1023 Milwaukee av
 †Pope, Wm. A., 79 Lake
 Porter, F. L. & Co., 4236 Cottage Grove av
 Potter & Hartz, 188 Monroe
 Powers, Frank T., 6341 S Halsted
 Powers, Richard J., 276 5th av
 Powers, Thos. J., 1992 W Madison
 Preissner, Gustav, 541 N Rockwell
 Prentice, Thos., 1146 75th
 Proebsting, C. N., 1125 W North av
 Prucha, Vladimir, 1245 S 42d av
 Pyne, Arthur, 709 70th
 Quinn Bros., 2914 Cottage Grove av
 Quirk, M. F., 4648 State

Racine, Alfred L., 583 W Harrison
 Radcliffe, F. W., 5331 Wentworth av
 Rankin, W. & J., 453 W Madison
 Ray & McConaghy Plumbing Co., 6016 Went-
 Rayek & Dolan, 486 W 18th worth av
 Raymond, Couuos T., 180 Kinzie
 Rech, Peter, 386 W Belmont av
 Redieske, Chas. Co., 99 Clybourn av
 †Reger, H. P. & Co., 183 55th
 Reilly Bros., 532 W Madison
 Reinmuth, Wm. F., 4916 S Western av boul
 Renn Bros., 112 Chicago av
 Rest, Alexander, 262 Maxwell
 Rice, Max, 8714 Com'l av
 Rich, Paul J., 2705 W Superior
 Riley, Jas. F., 1081 75th
 Rimke, J. F., 1657 W 12th
 Rlordan Bros., 1496 Ogden av
 Rippberger, Edw. C., 421 Irving Park boul
 Ritter, Wm. H., 151 39th
 Robertson, Robert I., 861 W Harrison
 Robinson, Thos. E., 800 S Halsted
 Roche, Jas. H., 210 31st
 Rock Bros., 86 N Clark
 Roderwald, Otto, 162 Clybourn av
 Rodgers, W. L., 247 W 39th
 Rohn, Adolph A., 802 W Lake
 †Rohrer, A. J., 4426 Cottage Grove av
 Rolier, Karl L., 6224 Greenwood av
 Rood, Geo. L., 238 Lake
 Rourke, M. B., 151 53d
 Ruh, Frank E., 548 N Welis
 Ruh, Frank J., 692 Lincoln av
 Rustman Bros., 566 S Halsted
 Ryan, John B., 6306 Yale
 Ryan, Wm. H., 5434 S Halsted
 Salmon, Jno. A. & Co., 606 W Van Buren
 Saunders, John 5965 Union av
 †Sanders, Patrick & Son, 1314 Wabash av
 Sanford, Thomas J., 5238 State
 Sattler, Jos., 642 W Van Buren
 Saunders, Fred J., 5761 La Salle
 Saunders, Geo. F., 3701 Ellis av
 Sautter, David G., 6138 S Ada
 Schaefer, Joseph H., 4047 N Clark
 †Schampel & Callahan, 155 Washington
 Scharle, Jno. P., Jr., 144 Colorado av
 Scheel & Son, 474 Larrabee
 Scheuer, Wm., 189 Fullerton av
 Schey, Geo. H., 5431 Bishop
 Schlele, Frank C., 4355 Wentworth av
 Schiller, August, Jr., 1347 N Fairfield av
 Schirmer, Geo. W., 1974 W Madison
 Schirra, Jno., Jr., 356 North av
 Schmidt, Wm. C., 641 W Lake
 Schnobel, Hy. A., 816 W 120th
 Scholefield, Fred. R., 310 S California av
 Schramm, H. B., 475 Garfield av
 Schroder, Henry F., 692 63d
 Schufft, Albert, 4806 N Clark
 Schuster, Frank P., 234 N Clark
 Schweitzer, C. & R., 187 Centre
 Selp, Fred., 210 92d
 Shannon, Geo. J., 3241 Cottage Grove av
 Shannon, H. T. Mfg. Co., 182 W Van Buren
 Shaw, Frank N., 507 43d
 Sherman, Geo. W., 4505 State
 Sherwood, A. R., 6440 Wentworth av
 Shulhafer, J. Edward, 1241 Bryn Mawr av
 Sickel, Clarence F., 360 Larrabee
 Slewert, Herman P., 1260 Armitage av
 Skelton & Lloyd, 219 N Park av (A)
 Slepicka, Joseph A., 1032 W 13th
 Smille, Wm. J., 9221 Commercial av
 †Smith, Frederick, 3723 Cottage Grove av
 Smith, Louis, 1330 W 22d
 Smith, Louis R., 1518 34th pl
 †Smith Plumbing & Heating Co., 1544 Mil-
 Smith, Robert H., 115 21st waukee
 Spang, Frederick A., 344 Roscoe
 Stanley, John J., 522 63d
 Stanley, Wm., 336 55th
 Stein, Carl J., 479 State
 Stenberg, Edward, 1716 E Ravenswood pk
 Stokes, Geo. J., 232 W Randolph
 Stradinger, Leonard, 29 Chicago av
 Strauss, Chas. G., 236 55th
 Sturt, Hy. W. & Co., 4233 Lake av
 Sullivan, Jno. H., 328 Division
 Sullivan, Michael, 729 W 43d
 Sullivan, William, 217 Kinzie
 Swartz & Peck, 2493 W Lake
 Taffe, Chas. F., 305 31st
 Tait, Richard, 613 W 69th
 Tandy, C. E. & Co., 311 W 69th
 Tarrant, Frank E., 403 W Van Buren &
 3909 Indiana av
 Tegtmeyer, Fred., 124 Canalport av
 Telieksen, Benjamin, 5748 State
 Terrell & Co., 10 S Centre av
 Teutsch, Jno., 2936 Wentworth av

Thielen, P. J. & Co., 299 Chestnut
 †Thomas & Smith, 17 S Carpenter
 Thompson, Edw. B., 173 Randolph
 Thompson, H. S., 217 Randolph
 Thompson, Robert W., 2963 Indiana av
 Thompson, Wm. D., 484 W Van Buren
 Thon, Eckart, 706 N Hoyne av
 Thorogood, Robert F., 713 Greenleaf av
 Thuemling, Julius, 172 Mohawk
 Tierney, Dennis J., 596 W Lake
 Timm, Edw. J., 719 Belmont av
 Tipple, Geo., 1587 N Halsted
 Todd, Maurice A., 3105 Indiana av
 Trandel Bros., 601 Noble
 Trott, Albert T., 1512 Ogden av
 Tumaity, J. W., 2251 Cottage Grove av
 Turkstra, John, 10911 Michigan av
 Uher, Chas., 524 W 18th
 Ulrich, Otto W., 59 Dearborn
 Valentine, Matthew, 1329 S 40th av
 Verhoeven, Peter J., 2438 Kensington av
 Verity, Wm. S. & Sons, 229 W Randolph
 †Wade, E. T. & Co., 25 N State
 Wade, J. J. & Son, 52 Dearborn
 Wagner, Ernst C., 536 W Fullerton av
 Waldkirch, Aug. J., 135 Lincoln av
 Wallace, William, 5617 Normal av
 Wallis, V. J., 1237 W Madison
 Walsh, David, 6828 & 7115 South Chicago
 Walsh, Dennis F., 257 Dearborn av
 Walsh, W. J. & Co., 114 Illinois
 Walther, Wm., 1528 W Madison
 Ward, Wm. H., 462 S 40th av
 Warren, Thos. M., 277½ Webster av
 Wassmann, Christian, 655 N Wells
 Waters, F. T., 7619 Railroad av
 Watkins, Joseph, 4306 Cottage Grove av
 Watson, A. H., 384 Milwaukee av
 Watson, Chas., 705 E 47th
 Watson, E. E., 229 S Western av
 Weher-Hofmann Co. (The), 1410 N Clark
 Weber, Jacob G. Co., 244 N Clark
 Weber, J. Martin, 523 Milwaukee av
 Weber & Bruckner, 4936 S Ashland av
 Weck, Alvin F., 1777 N Clark
 Wehrmann, Louis F., 3085 Bonfield
 Weil, Frank, 128 Washburn av
 Weil, Marcus, 1772 W Chicago av
 Wendt & Enright, 339½ S Jefferson
 Werdell & Thumm, 857 Sheffield av
 Wetzell, Otto C., 31 Chicago av
 Whitaker, Herbert L., 3624 W 64th pl
 Whiteford, David, 372 W Randolph
 Wilhelm, Nicholas, 247 Orchard
 Wiklie, Jno., 262 Ogden av
 Willems, Peter B., 952 N Halsted
 Willems Co., 356 N Clark
 Williams, Wm. H. & Bro., 37 E 47th
 Wills & Smith, 5938 S Halsted
 Wilson, James A., 5706 Ellis av
 Wilson, Robert P., 110 53d
 Wilson & Wilk Plumbing Co., 1182 Milwau-
 Winchester, Leon, 324 N Wells kee av
 Winterburn, J. H. Plumbing Co., 53 W Van
 Buren
 Winters, Henry, 897 W North av
 Wittenborn, Wm. J., 6057 Wentworth av
 Wixted, Thos., 5551 S Halsted
 Wolter, Otto, 68 Homer
 Wood, A. J., 147 Cheltenham pl
 Wood, Wm. G. Co., 819 W Irving Park boul
 Young & Collins, 321 W Harrison
 Zappen, Jacob L., 1550 Wabash av
 Zenker, Herman E., 10,230 Vincennes rd
 Zesch, Wm. C., 8034 Kimbark av
 Ziegler, Wm., 371 W Chicago av
 Zielenske, Julius, 1481 N Halsted
 Zimmerman, Herman, 824 W North av
 Zimmerman, Wm., 9904 Ewing av
CHICAGO HEIGHTS—Clark, E. W.
 Gibson, J. E. & Co.
 Jirtle & Somes
CHILLICOTHE—Slinn & Davis
CLINTON—Argo, Fred. N.
 Bouillon, W. E.
 Kraft, Thos. B.
 McCoid, J. S. & Co.
COLLINSVILLE—Ruembler, Charles
DANVILLE—†Carson & Co.
 Carson-Payson Co.
 Greiser, Fred. & Co.
 Hannum, W. S. & Co.
 †King Bros.
 †Ryan, Edw. J.
 †Straw, L. W.
 †Uhlein & Burow
DECATUR—Adams, B. C.
 Barringer, B. B.
 Carver & Schlademan
 Dawson, O. W. & Co.
 †Downing, T. E.
 †Field & Shorb Co.

Fox & Martiu Co.
 Peters, David M.
 Royer & Schille
 DE KALB—†Dunu, Johu
 Kaiser, A.
 Lake, Eber
 †Marvin & Bagg
 †Sheets & Knodle Co.
 DIXON—Lug Plumbing & Heating Co.
 Smith, Charles G. & Sou
 DUNDEE—Killcey, Peter J.
 DU QUOIN—Milligan, R. J.
 DWIGHT—Corbett, Misses Grace & Barbara
 EAST ST. LOUIS—City Plumbing Co.
 East St. Louis Plumbing Co., 126 Colliu-
 Grace, W. B. & Co. ville av
 Kickham, John & Sons
 Mayo, W. I.
 Metzger, Edw.
 Neenan, David
 †St. Clair Plumbing & Heating Co.
 Sanitary Plumbing Co.
 Vode, Beuj.
 EDWARDSVILLE—Herwick, C. C.
 †Tuxhoru Bros. Hardware Co.
 EFFINGHAM—†Bellchamber, H. A.
 ELGIN—King, Wm. J.
 Manard, A. P.
 †Middleton, W. H., 13 Douglas av
 O'Flaherty Bros.
 Peterson, H. L. E.
 Platt, Henry, Du Page st
 †Scaulou, J. R., 47 Chicago av
 ELMHURST—†Hilliard, W. J.
 EL PASO—Baker & Drury
 †Haas, Peter
 Hershe, Benj.
 EVANSTON—Balfour Alex.
 Beck, Charles
 Cahill & Wright
 Chapman, Geo. N.
 †Connor, J. C. Co.
 Kearney, George A.
 Major, Edmund
 Moore, Geo. S.
 Moore, W. S., Jr. (N. E.)
 O'Malia, M. L. & Bro. (S. E.)
 Park Bros.
 Saxer & Swanson
 Schmeisser, C.
 Stokes, E. T.
 Swift & Doose
 Wallace, Geo. L.
 FAIRBURY—Burns, T. W.
 Schick, J. K.
 FAIRFIELD—Martin, Edw. A.
 FREEPORT—Boos, Jacob H.
 Brubaker, D. L.
 Evans Plumbing & Heating Co.
 †Freeport Plumbing & Heating Co.
 Hall, H. L.
 Murphy Bros.
 Parker, M. L. Co.
 GALENA—Myers, J. F.
 GALESBURG—Henderson & Slack
 Johnson, W. F.
 McKinney, J. A.
 Murphy Bros. & Anderson
 Nelson, F. J.
 Quigley, J. P.
 †Telford, C. S.
 †Viborg & Hvarven
 GALVA—Dixie, Frank
 Hokom, S. M.
 GENESEO—Becker, Theo.
 Doremus, M.
 Hannon, Kidney & Ryan
 GIBSON CITY—Gibson Iron Works
 Vanderburg, G.
 GRANITE CITY—Bischoff, H. H. Plumbing Co.
 Bristow Hardware & Supply Co.
 Granite City Plumbing Co.
 Nixon, R. D.
 GREENVILLE—†Biggs, A.
 McLain, Vance
 GRIDLEY—Niergrath & Donnelly
 GROSSDALE—Garner, Fred
 HARVEY—†Armington, C. S.
 HAVANA—Harpham, O. H. & Co.
 Karl, J. G.
 Murrell, Chas. F.
 Riggins, Carl
 †Sallie, J. C. & Co.
 HENRY—†Kuss Bros.
 †Meridian, F. W.
 HIGHLAND—Mosimann, A. P.
 HIGHLAND PARK—Abercromby, A.
 Schmiedley & McNanley
 †Sullivan, C. P.
 HILLSBORO—Armstrong & Sons
 †Brown, Geo. W., Jr. (Est. of)
 McDavid, J. L. & Co.
 Miller, W. H.

HINSDALE—†Davidson, Walter
 Kennedy, D. J.
 HOOPESTOWN—Gillan, John J.
 Murray & Fenwick
 †Werner, Ezra B.
 JACKSONVILLE—Beastall Bros.
 Camou, O. B.
 Gause, Bernard
 Landers, Keefe & Co.
 †Marcum, W. J.
 JERSEYVILLE—†Fry, George A.
 Redlich, Wm. & Son
 JOLIET—†Barrett Hdw. Co., 218 N Chicago
 Erikseu, Walter L.
 †Harrison, Frank, 638 Jefferson
 Henschen, Hy. P. (Estate of)
 †Poehner & Dillman, 417 Cass
 †Smith, Frank P.
 Themes, F. W.
 KANKAKEE—†Blatchford, J. B.
 Drury, J. J.
 Fortier, E. J.
 Guttendorf, Chas.
 Meyer, Louis
 Schedler, Frank
 Shores, L. W.
 Sunday, A. J.
 Wohner, G. J.
 KEWANEE—†Dustin, H. A. & Co.
 †Heaps & Schmidt
 †Kewanee Sanitary Supply Co.
 LA GRANGE—†Kcley, George I.
 Ryan, J. J.
 Schwenk, F. F.
 LAKE FOREST—Fitzgerald, John E.
 O'Leary, John
 Richards & Olin
 LA SALLE—Dougherty, J. M.
 Gruenwald, Julius G.
 Heilstedt, Julius H.
 †Hynds, Thomas
 Stoecklin, Charles
 LEBANON—†Sager, C. H. Hardware Co.
 LENA—Fitzgerald, E. P.
 LEWISTOWN—Rosellen, William
 LINCOLN—†Acton & Davis
 †Bouillou, W. E.
 Jones & Koehule
 Marshall, H.
 Richards & Rhoads
 Schuester, Nelson J.
 Williams, Chas. M.
 LITCHFIELD—Odern Press
 Tinklepaugh, H.
 LOCKPORT—Adams & Scheidt
 O'Connell, Wm.
 MACOMB—Harris, R. E. & Son
 MARION—Davis, F. G. & Co.
 †Marion Plumbing & Heating Co.
 †Southern Illinois Plumbing & Heating Co.
 MARSEILLES—Miller, J. R.
 MARSHALL—Hooper, J. M.
 Swern, F.
 MASCOUHAH—Liebig, Wm. A.
 MASON CITY—McDowell, C. E.
 Robertson, John L.
 MATTOON—†Berthold, Edward
 †Capen, G. R.
 Clark, H. W.
 MAYWOOD—†Anthony, Jas. C.
 Mardorf, W. A.
 Ruden, John
 Widney & Tanton
 MELROSE PARK—Arndt, Louis
 Bartels, Henry & Sons
 Yuug, Michael
 MENDOTA—†Madden, S. J.
 METROPOLIS—Craig, J. H. & Co.
 Stephens, E. E.
 MOLINE—†Berglund, C. A.
 †Hartwell, Daniel
 †Lockhart Heating, Plumbing & Mfg. Co.
 †Moline Heating & Construction Co.
 Plambeck Heating & Plumbing Co.
 †Stange Bros.
 MONMOUTH—†Hays & Eastman
 Herdeman & Cox
 McCullough Hdw. & Implement Co.
 MONTICELLO—†Harris, H. P.
 Lemen & Skelton
 MORGAN PARK—Dewar, A. K.
 McCullagh, Geo. W.
 Zimmermann & Saunders
 MORRIS—Flynn, Gus.
 Hitchcock, B. C.
 †Schober, Wm.
 MORRISON—Chryst, J. V.
 Feldman, A. H.
 †Sauer, H.
 MORRISONVILLE—†Wyckoff, O. A.
 MOUNT CARMEL—Kamp Bros.
 Schaefer, Harry

MOUNT CARROLL—Snyder, Chas.
 †Squires, Thomas
 MOUNT VERNON—Anderson, W. G.
 Gannou & Milburn
 MURPHYSBORO—Herman, F. Plumbing Co.
 †Jenkins, H. H.
 NAPERVILLE—†Dicter & Getz
 Kieserg, Joseph
 Reiche Bros.
 Steffels Bros.
 OAK PARK—Andree, Max W.
 Bruce, F. A.
 Bunge, W. A.
 Crawford Bros. (Harlem)
 †Foster & Glidden Co.
 McGrogan, Thomas
 Michalsky, Conrad
 Nelson & Wagner
 Scheel, O. C.
 Schneider & Abbott
 Williams, A. E.
 OLNEY—Richardson & Tippet
 Tippet, M. L.
 OTTAWA—Berndt & Praefcke
 †Clegg, J. W.
 Dougherty, Juo. M.
 †Hayne, Edw.
 PANA—Herrington, J. B. A.
 Paul, G. A.
 ARIS—Cantlon & Wright
 Morris & Greiser
 Porter, Troy
 Powers, R. J.
 Thomas, Paris
 PAXTON—Corbett Bros.
 †Cruzen, R. Co.
 Kemp Bros. Hardware Co.
 PEKIN—Kelly & Kraft
 Lucas, Carl
 †Ruhaak & Lackman Co.
 PEORIA—Boyd & Ryan, 324 S Washington
 Brass Foundry & Heating Co., 105 Franklin
 Central Plumbing & Heating Co.
 Cody & Shea
 Dickson Co. (The), 206 S Jefferson av
 Dooley & Bruninga, 120 Fraukliu
 †Hitchcock Bros., 428 Fulton
 Kavanaugh, M. J., 204 N Jeffersou av
 †Klingel & Sons, 219 S Madison av
 McGlinn, James, 126 Main
 †McLoughlin, Frank Plumbing Co., 801 Main
 McQuellon & Schori, 110 S Madison av
 †Murphy, Chas. R., 219 N Adams
 Murphy, W. W., 704 Main
 †O'Connor Bros., 205 S Jeffersou av
 †O'Neill, J. & Sons, 218 Main
 Peoria Plumbing Co., 320 Liberty
 Schilling, Michael H.
 PERU—†Brunner, Charles
 Fitzgerald, Albert
 Hoppler, John
 Schmoeger, Wm. A.
 Schmoeger, Wm. A.
 †Soedler, George & Sons
 †Widman, Loeckle & Co.
 PETERSBURG—†Clary, W. P.
 †Smith, J. G.
 PITTSFIELD—†Clayton, W. H. Hardware Co.
 PLANO—†Roe, Henry M.
 †Sears, A. H. & Co.
 †Stahle, Henry
 POLO—Waterbury, A. D.
 PONTIAC—Bagnall, P. D.
 †Miller, G. H.
 †Morrison, Frank
 PRINCETON—†Downer, H. J.
 †Glynn, Jno. & Co.
 Greenwood & Skoglund
 QUINCY—†Best, E. Plumbing & Steam Heat-
 De Crow, George E. ing Co.
 Ernst & Wiuking
 Lubert & Giesing
 †O'Neil Plumbing & Heating Co.
 Sullivan Bros.
 RIVERSIDE—Castle, Jas. W.
 Taylor, W. J.
 ROCHELLE—†Code, A. L.
 Spath & Beebe
 ROCKFORD—†America Heating Co.
 †Blake, J. O. Heating Co.
 Burke, William
 †Butterworth, William O.
 †Craddick, W. H.
 Dougherty & Son
 †Gregory, A. S.
 †Gregory, E. S.
 †Griffin, James C.
 Hughes, C. E.
 †Kennedy, J. M.
 Lundberg, H. L.
 †McGuire Bros.
 †Maher & Smith
 †Manard, J. W.

†Mapes Bros.
O'Malia, H. A.
†Rover, J. Z.
Sandeem & Larson
Swords Bros.
ROCK ISLAND—†Allen, Myers & Co.
†Channon, Perry & Co.
†Lamp, Edw. E.
Reddig, G. W.
Rosenfield Bros.
Ward & McMahon
RUSHVILLE—Hartman, George
SANDWICH—Fowler, W. H.
SAVANNA—Herrington, S. A.
SHELBYVILLE—Worley, C. F. & Son
Fraker & Co.
SOUTH EVANSTON—(See Svanston)
SPRINGFIELD—Anderson, E. A. & Co.
†Hanratty, Owen
Hopkins, Leon P.
†Illinois Plumbing & Heating Co.
Kibele Bros.
†Knox, M. E.
Lofy & McKee
†McVeigh, H. B.
Murphy, J. N.
Patterson-Stewart Co.
Power, J. J.
Power & Baker
Rieder & Perkins
†Rippey, J. M.
Roosa & Co.
Walz, Chas. A.
Wiley & Wiley
SPRING VALLEY—Fehr Bros.
Kimber, J. F.
ST. CHARLES—Mann & Parre
Mann & Vander Volgan
Rockman & Carlson
Sanitary Plumbing Co.
STAUNTON—Miller & Curdie
STERLING—Dieterle, John G.
†Loos, J. G.
†Trager, Frank A.
STREATOR—Gebhart, William
Huggins, J. A. & Co.
†Mulford, Wood & Co.
Norris & Sorton
Shaw, Robert T.
SULLIVAN—Hagerman, L. T. & Co.
SYCAMORE—†Forward, W. M. Co.
†Morphey, David M.
†Ohlmacher & Root
Paddock & Kenyon
TAYLORVILLE—†Powell, H. M. & Son
TUSCOLA—Seass, L. D.
URBANA—Green, Jesse D.
Post, Hy. G.
Sullivan, James H.
Urbana Plumbing & Heating Co.
VIRDEN—Holderness, F. E.
WASHINGTON HEIGHTS—(See Chicago)
WATSEKA—Pickens, J. L.
WAUKEGAN—Long, George
†McDonough, Lee
†Patterson, H. C.
Salmon, James A.
Swingwood, Thomas
WEST CHICAGO—Boynton & Ketcham
WHEATON—Kelley, A. D.
Ott, C. F. & Co.
Wolter, Paul A.
WILMETTE—Clow, David E.
Engstead, N. M.
Headke, F. E.
O'Hara, H. C.
Specht, August
Steiner, Joseph
WINNETKA—Bisset, George
WOODSTOCK—Nichols, David B.

INDIAN TERRITORY.

ARDMORE—Ardmore Tin & Plumbing Co.
BARTLESVILLE—Boyd & Arnold
Glesener, G. H.
Johns, E. W. & Co.
CHICKASHA—Bock, A. F.
Hollingsworth, C. P.
Smith, J. C. & Co.
DURANT—Sherman, J.
MUSKOGEE—Barry, M.
Bellis, A. B.
Griffin & McManus
Hamilton, J. O.
Turner Plumbing Co.
OKMULGEE—Gipson & Son
SAPULPA—McElwain & Son
SOUTH McALESTER—Graves, Boyd O.

TULSA—Eureka Plumbing Co.
Gibson Plumbing Co.
Holloway, Charles
Isenberger, Ira
Neilson, R. R.
VINITA—Nipp Bros.

INDIANA.

ALBANY—McCormick & Sons
ALEXANDRIA—Brattain, J. O.
Leeson, Wm. B. & Son
ANDERSON—Cookman & Decker
Daniels, W. H.
Emmert & Webb
†May Supply Co., 40 N Main
Neab, Conrad
Osborn, V. H.
Powell & Dorste, 26 N Main
Sisk, C. & J.
Wombold, E. M.
ANGOLA—Alcott, Frank H.
Harding & Carper
Maxfield, Samuel B.
Myers, E. F.
ATTICA—Heinemann Bros.
Stewart & Morris
AUBURN—Tenny, C. O.
AURORA—Dewers, C. H.
BEDFORD—Bedford Sewerage & Plumbing Co.
Bell & Quinn
†Strout, N. E. & Son
ELOOMINGTON—Brisseden, W. A.
Hughes, C. W.
Strong, J. B.
BLUFFTON—Kerfoot, Thomas J.
Kerfoot, Wm. M.
Tribolet, A. J.
BOONEVILLE—Kinderman, William
Pelzer, Chas.
Schuyler, Louis
BRAZIL—Blume, F. J.
Hawkins, Oscar C.
BREMEN—Van Skylark, John
BUTLER—Murphy, Eli C.
CAMBRIDGE CITY—Huddleston Bros.
Kiser, William H.
Oliver, T. L.
CLINTON—Fillinger, C. H.
Mills, Henry N.
COLUMBIA CITY—Aker, Charles & Sons
Briggs, S. O.
Hilbert, Alfred
COLUMBUS—†Columbus Machine Works
Gardner, R. H.
†Keller, C. M. & Co.
CONNERSVILLE—†Huxtable, G. L.
Neal & Stoll
Riley & Bradford
CRAWFORDSVILLE—Miller, Stephen
Pickett, D. W.
†Williams Bros.
CROWN POINT—Fancher, W. S.
Felton, C.
DECATUR—Decatur Supply Co.
Hyland, P. J.
Rose, A. E.
Smith, A. B. & Bro.
Wisehaupt, John D.
DELPHI—Hatfield, Curtis V.
Thomas & Hatfield
EAST CHICAGO—Day, George E.
Pickard, Edw.
EDINBURG—Freese, J. A. & Son
ELKHART—†Borneman & Sons
†Heffner, Mary H.
Johnson & Rogers
Maloney, C. H. & Co.
Marchesseau Plumbing Co.
Peoples Bros.
ELWOOD—Hawkes, A. G.
Stokes, Jas. & Co.
Stokes, Lee
Stoner & Bassett
EVANSVILLE—Anderson & Veatch Plumbing Co.
Crawford Bros., 314 Up. 1st
Krausen, Chas., 911 W Franklin
Mursinna, Paul, 411 Sycamore
Newman, H. G. Plumbing Co., 320 U. 2d
Newman & Vineyard
Sanitary Plumbing Co., 413 U 2d
Schaefer, Jno. J., 1505 Main
†Schmitt, August & Sons, 605 Main
Wahnseidler, John
FAIRMOUNT—Miller, E. M.
FORT WAYNE—Abdon, George & Co.
Derhelmer, E. A.
Fox, C. G., 80 Taylor
Franke, H. F., 68 Barr
Grosvenor, Wm. & Co.
†Hattersley, A. & Sons, 48 E Main
Heffelfinger, Robert

Jahn, J. H.
Jahn & Meyer, 123 E Lewis
Koch Construction Co.
Kronmiller, E. F.
Lordier, M. J.
McDonald & McMakin
McPhail Bros., 141 W Berry
Martin, Emmett, 104 Buchanan.
Martin, Jos. P. & Co.
Noll, M. F., 129 E Jefferson
O'Rourke, J. B.
Rolf, Albert & Bro., 122 B'way
†Spice, Robert, 48 W Main
Tomkinson, A. L., 193 Calhoun
Vasen, Philip F.
Weaver, Frank J.
Yobst, Hy. & Co., 36 Fairmount pl
†Zimmerly, F. J. & Co., 141 Calhoun
FRANKFORT—†Elder, Martin E.
Elliott & Pickett
Emshoff, W. L.
Jones & Burke
Smith, C. W.
FRANKLIN—†Franklin Water, Light & Power
Joplin, Joseph Co.
Sauer Bros.
Woollen, W. E.
GARRETT—Landis, J. O.
GAS CITY—Young & Schnobel
GOSHEN—Cline, C. F.
Conahy, V. B.
Kutz, C. E.
†Liebole, Frank W.
Sheridan & Chapman
GREENCASLE—Beemer, W. A. & Co.
Reeves, O. L.
GREENFIELD—†Banks, A. J. & Son
Gorman, Grant
Miller, Jos. M.
Snodgrass, S. G.
GREENSBURG—Black, Holman
Corbett & Rohe
Watson, W. A.
HAMMOND—†Brunt, W. F.
Campbell Plumbing Co.
Kleihege, Wm., Jr., Homan c Dalton
Reynoldson Plumbing Co.
Tallman, J. H.
HARTFORD CITY—Hartford City Plumbing Co.
Johns, T. B. Co.
HUNTINGBURG—Schenck, Henry & Son
Shurig, Chas.
HUNTINGTON—†Bartlett & Frazier
†Buchanan, S. & Co.
Gibney, B. J. & Son
Hoke, Lincoln
INDIANA HARBOR—Brattain, Samuel C.
Indiana Harbor Plumbing Co.
Landfield, Henry
INDIANAPOLIS—Aneshaensel, C. & Co., 33 E Ohio
Aneshaensel, Otto, 107 Dickson
Arnold, Jacob, 319 Indiana av
Austermiller, Chas. J.
Barker, T. J., 204 N Delaware
Beaver Bros.
Brennan, John V., 112 W 16th
Carleton, Thos. L.
Carothers, Wm. M.
Caswell, Wm. H., 30 Kentucky av
Clarke Bros.
†Clarke & Sons
Clifford & Betz, 829 Fort Wayne av
†Connell, Thos. Co., 219 E 19th
Cook Bros. & Co., 233 Virginia av
Crain & White
Dailey, L. E. & Co., 2420 N New Jersey
Denges & Rollings
DeWald & Wahl, 23 Kentucky av
†Diggle, J. A., 116 E Ohio
†Dunn, John C., 938 N Illinois
Fagan, John M., 146 Virginia av
Fairfield, A. R. & Co., 2947 N Illinois
†Farrell, J. S. & Co.
Foley Bros. & Co., 111 E Ohio
Freaney Bros., 817 Ft. Wayne av
Fromhold, Frank J., 106 E 23d
Gates & Fox, 419 E 16th
Gehle, Fred K.
Geis, George A.
Goth, H. A., 913 N New Jersey
†Haines, C. B., 220 W Ohio
Hamilton, Harry W., 411 E McCarty
Haslinger, Jos. F., 406 Mass. av
†Hayes Bros. 437 Indiana av
Healy & O'Brien, 107 W Maryland
Hermann & Rothrock, 646 E 16th
Holmes & Co., 154 E Market
Holt Bros.
Holtman, Chas., 638 E New York
Hoosier Plumbing Co.
Hudson, Henry T.
Irwin, John D., 602 E Walnut

Janitz, Fred'k G., 603 Virginia av
 Kelley, John W., 1035 E Washington
 Keyser, Geo. W., 946 Fort Wayne av
 Kirkhoff Bros. & Co., 11 N New Jersey
 Kleider, George F.
 Krauss, Chas., 127 E Ohio
 †Kreglo, Jas. A. & Co., 1754 E 10th
 Locke & Mitchell
 McCarthy, M. J., 1602 N Alabama
 McGauley, Jas. & Son, 2104 N Senate av
 Marshall & Grein
 †Mast, G. J. Heating Co.
 Miller & Robinson, 725 Massachusetts av
 Mock, Henry M., 245 Virginia av
 Payne, John T., 105 E 22d
 Peck, Calvin L., 143 N Delaware
 Prinzler, Louis V., 303 E Ohio
 Ramsay & Donovan, 214 E 16th
 Rich, John W., 1526 N Illinois
 Rickes, Geo. H., Jr., 717 Virginia av
 Schmidt, H. J., 938 N Sheffield av
 Schott, Chas. E., 22 Kentucky av
 †Strong, E. A., 407 Madison av
 Toon, Chas., 3003 N Illinois
 Wilcox & Judd, 452 Massachusetts av
 †Wiuter, Chas. R., 940 Ft Wayne av
 †Woolen & Callon, 17 S Alabama
 Wurgler, G. A., Jr., 828 S Meridian
 York, Jno. E., 5721 Railroad
 Zietlow, Herman F., 935 Massachusetts av
JASPER—Theile, Carl
JEFFERSONVILLE—Johnson, B. A., 131 E Chestnut
 Timmonds, R. H.
 Voigt, Geo. F.
KENDALLVILLE—Koder & Geddes
 Lee & Wadsworth
 Loomis, Edgar S.
 Zern & Bliss
KNIGHTSTOWN—†Bell & Son
 Kennard, Chas.
 Kennard, F. M.
 Troxell, J. T.
KOKOMO—†Bennett, A. C.
 Burger, V. A.
 Hamilton, W. E.
 Higgins & Son
 Lindley, J. O.
 Pickett & Blackford
 Rose, A. P.
 Sorter, Marven D.
 Sullivan, Thomas
 Turley, Thos. E.
LAFAYETTE—Lane-Pyke Co.
 Mehegan, Thomas
 †Overesch & Werkhoff, 842 Main
 Schmitz, A. R., 13th & Salem
 Vaughan & Gallagher
 †Wallace Bros. Co., 300 N 4th
 Wheeler, H. M. & Co.
LA PORTE—†Dolan, P. J.
 †Kannev, Edward
 †Stahl, A. J.
 †Tyrell, G. R.
 Waters, A. F.
LAWRENCEBURG—Shulze, Wm. Heating & Plumbing Co.
LEBANON—Bratton, J. B.
 Brown, Hale & Co.
 Fish, Chas. E.
 Hamilton, Harry
LIGONIER—Kunkalman, John
LINTON—Linton Plumbing & Heating Co.
LOGANSPOUT—Holland, John W.
 †Linton & Graf, 325 Pearl
 McCarthy, Thomas J.
 Messenger, J. B. & Son & Sullivan
 Powell, W. E.
 †Rodefer, J. H.
 Whitehead, Wm., 504½ B'way
MADISON—Adams, John
 Anger, A., Mrs.
 †Hoffman, Peter
 Johnson Foundry & Machine Shops
 †Madison Machine Co.
 Quinn, Patrick J.
MARION—*Beshore, Chas.
 Brunka Bros.
 †Gillespie, L. W. & Co.
 Hegerty, M. F.
 McDonnell, John
 Marion Plumbing Co.
 †Swanger & McClain
 Whisler Plumbing & Heating Co.
MARTINSVILLE—Bennett, G. W.
 Johnson, Charles
 †Martinsville Plumbing & Heating Co.
MATTHEWS—Allison, Charles R.
MICHIGAN CITY—†Bartholomew & Co.
 †Napier, D.
 †Stalger Hardware Co.
 †Stephenson & Co.

MISHAWAKA—Distler, John C.
 Sihley & Leach
 Stoeckinger, G. Frank
 †Swanger, John Q., Jr.
MONTICELLO—Ehlert, H. C.
 Troeger, Edward
MONTPELIER—Landen, Robert
MOUNT VERNON—†Schenck, E. B. Hardware Co.
 Strack Hardware Co.
MUNCIE—Allbright & Van Skye
 †Clevenger, Earl
 Dragoo, James P.
 Gallivan, J. A.
 Jones, J. B.
 Knight & Jillson Co.
 Lore & Hyatt
 †Stauf, F. W.
 Stauf, Philip
NAPPANEE—Wetherhead, V. T.
NEW ALBANY—Beeler, W. H.
 Lindemann, A.
 †Miller, A. & Bro.
NEW CASTLE—Ellor, S. G.
 Jeunings, W. D.
 †New Castle Machine Works
 New Castle Plumbing & Supply Co.
NOBLESVILLE—Clark Supply House
 Crawford, W. H.
 Fox, A. M.
 Johnson, Jos. H.
NORTH MANCHESTER—†Frame, D. & Son
 Stewart & Nofztger
PERU—Brennan, Jno. W.
 Cloud, Levi
 Eikenberry, A. L.
 Good, William
 Reilly, Edw. E.
 Soames, Charles
PLYMOUTH—†Eich, C. J.
 Yarrick, C. O.
PRINCETON—Nohle, E. F. & Co.
 †Princeton Plumbing & Heating Co.
 Smith & Mills
REDKEY—Wilson, A. B.
RENSSELAER—White & Marion
RICHMOND—†Bass, W. C.
 Hieger, H. C.
 Johanning, Henry H.
 †Meerhoff, H. H.
 Morgan, Omar B.
 †Waking, Wm.
 Woodhurst, John E.
 †Zoller & Craighead
ROCHESTER—Ritchey, P. A.
 Scheid, Adolph
 Zook, Edw.
ROCKVILLE—Humphries, L. B.
RUSHVILLE—Beale, J. S.
 Gantner, John E.
 Whitlock, John & Co.
 Worth & Bowen
SALEM—Langwell & Jackson
SEYMOUR—Bevins, W. C.
 †Seymour Plumbing & Heating Co.
SHELBYVILLE—Convery, T. B.
 †Flack, E. S.
 Griffey, A. G. & Co.
SOUTH BEND—Aslin, James
 Braunsdorf & Weaver
 Burke, W. H. & Co.
 Doran, E. J.
 Downes, Wm.
 Draper, Wm. P.
 Hyska, Hipolite
 Meyer, Arthur V.
 Miller, Rex T.
 Pavey & Bauman
 South Bend Plumbing & Heating Co.
 Standard Plumbing Co.
 Westhury, David A.
 Williams, Thos.
SPENCER—Mead, W. S.
SUMMITVILLE—†Cartwright, T. E.
TELL CITY—Schneider & Oberhausen
TERRE HAUTE—Arleth, Fred.
 Burget, Andrew, 505 Ohio
 †Freitag, Weinhardt & Co., 646 Wahash av
 Gallagher, A. J., 109 S 6th
 Moore, Jas. T., 683 Wahash av
 †Prox & Burget Co.
 Toelle, Otto E.
 †Watson, D. W. Sons Co., 634 Wahash av
TIPTON—Compton & Son
 Ulrick, S. L.
UNION CITY—Lemich, Jno. C.
 Slough, Geo. A.
VALPARAISO—Miller, R. E.
 Valparaiso Plumbing Co.
 Wilson, Jas. W.
VEEDERSBURG—Wade, E. E.

VINCENNES—Buck & Boyd
 Kapps, F. J.
 Sowden, Jos. H.
 Thomas, M. K.
WABASH—Hanpt, Carl
 Hipskind & Hipskind
 †Honeywell, M. C.
 Martin, Charles
WARREN—Faust, Arthur
WARSAW—Croy, Grant
 †Eichar, Jno. A.
 †Warsaw Plumbing & Heating Co.
WASHINGTON—†Carnahan, M. J. Co.
WHITING—Garvey, John W.
 Whiting Hardware Co.
WINCHESTER—Hurst, W. C. & F. C.

IOWA.

ALBIA—Albia Plumbing & Heating Co.
 Clark, J. F. & G. F.
 Falvey & Combs
ALGONA—†Falkenhauer & Co.
 †Robinson, Jno. W.
AMES—Horton & Steigerwalt
ANAMOSA—†Trester, D. C.
ATLANTIC—Burr, F. H.
 †Salisbury, C. A.
BELLE PLAINE—Palmer Bros.
BLOOMFIELD—Hatton, L. T.
BOONE—Anderson & Nelson
 Bigsby, Charles A.
 †Crary Bros.
BURLINGTON—†Bosch, C. G., 313 N Main
 Ewinger, Jno. H.
 †Ewinger, Henry Plumbing & Heating Co., 217 Wash'n
 †Fawcett, Peter
 McElhinney & Tahor Co.
 †Stewart & Hayden Co., 310 N Main
CARROLL—Rich & Lenz
CEDAR FALLS—†Boehmler Bros.
 †Radell, J. C.
 Scroggin & Lund
CEDAR RAPIDS—Fenton, J. H. & Co.
 Gates, W. H.
 †Kuhias, F. & Co.
 McDonnell Bros.
 Meister, Robt.
 †Messner & Co.
 †Miller, H. F. & Son
 Nyere Bros.
 Popelka & Son
 Smid, Louis
 Taylor, W. H.
 Zvacek & Pohl
CENTERVILLE—Arvidson, E. A.
 Gregory & Eppert
 †Peatman, R. I.
CHARITON—Larimer, H. H.
 Walton & Co.
CHARLES CITY—Angel, E. I.
 Collins & Morris
 Snyder Bros.
CHEROKEE—†Millard, W. H.
 Swanson & Betsworth
CLARINDA—Dunlap & Co.
 †Keener, John T. D.
CLINTON—†Armstrong, C. E. & Co.
 †Kendall, Geo. & Co., 409 S 2d
 Kresin, Wm. H.
 McCarty, J. L., 902 4th
 Woodbury, E. N. & Co., 415 2d
 Wulf, Peter C.
CORNING—†Okey, A. F.
COUNCIL BLUFFS—†Bixby, J. C. & Son
 †Gilbert, Jno.
 Gohlinghorst, A. H.
 Jeffries, William A.
 New York Plumbing Co.
 †Stephan Bros.
CRESCO—Brooks, B. B.
 †Lomas, J. T. & Son
 Moen, H. C.
 Swenson, M. O.
CRESTON—Creston Gas & Electric Co.
 Creston Plumbing & Heating Co.
 Willbee, Geo. & Son
DAVENPORT—Claussen, Henry C.
 †Clayton, Robert & Son, 511 Brady
 Davenport Heating & Plumbing Co.
 De Hart & Steckel
 Diederichsen, Lorenzo H., 528 Brady
 Dunker, H. Plumbing & Heating Co.
 Kerker, R. P. Plumbing Co.
 Reed, Clark E.
 Shanley & Boyd
 Sonntag, Henry, 324 Harrison
 West End Plumbing & Heating Co.
DECORAH—†McMasters Co.
 Mollart, C. A.
DENNISON—Carpenter & Co.

DES MOINES—Anderson & Vellne Plumbing & Heating Co.
 †Capitol City Plumbing Co., 814 Grand av
 Cochran Plumbing & Heating Co.
 Cutler, Edwin, 612 Grand av
 Degan, D. G.
 †Des Moines Plumbing & Heating Co., 716 Locust
 †Globe Plumbing & Heating Co., 518 E Walnut
 †Kurtz, L. H., 308 Walnut
 McCawley & McEachron
 McNamara, P. M. Co.
 Moorhead, W. E.
 Nelson, Christian, 410 7th
 Peitzman, John H.
 Sanitary Plumbing & Heating Co.
 Shultz-Robbins Co.
 †Standard Heating Co., 414 7th
 Steele & Shea
 Thomas Plumbing Co., 612 E Grand av
 †Van Dyck, E. & Co., 820 Walnut
 †Walker, A. H. & Co., 807 Locust
 †Wallace & Linnane
 Watson, J. W.
 DUBUQUE—Breithaupt, Philip
 †Cleaver, Edw. T.
 Gow & Curtis
 †Jungk, Robert, 1633 Clay
 Linehan & Molo, 472 Main
 McCarten, H. B.
 Mullen Bros.
 Pape, Charles
 Papin, L. O.
 EAGLE GROVE—Armbruster, M.
 ELDORA—†Brown Bros. Foundry & Machine Co.
 †Stauffer, Charles F.
 EMMETSBURG—Gusland, L. O.
 ESTHERVILLE—Nancolas & Howard
 FAIRFIELD—Beatty, F. A.
 Fulton & Brady
 FORT DODGE—Nelson, John
 Payne, Walter W.
 Phelan, M. J.
 Phillips, L. K.
 Schmidt, H. & Co.
 FORT MADISON—†Prichett, Frank
 †Vollers, Edwin
 †Woolever & Etka
 GLENWOOD—Glenwood Plumbing Co.
 Rettelsdorf, Geo. T.
 GRINNELL—†Marvin Bros.
 Rinefort Bros.
 HAMPTON—Beed, H. O.
 Cummings & Freeman
 Thomas, B. K.
 Westcott, E. M.
 HARLAN—Lyons, J. W.
 Wheeler, Wm. W. & Son
 IDA GROVE—†Sauer, Martin
 Simpson, A. W.
 Varner, Bart.
 INDEPENDENCE—Courtneage & Brooks
 †Allen, E. S. S. & Bro.
 †Plane, I. C.
 INDIANOLA—Braught, Charles
 Farley, Geo. T. & Co.
 IOWA CITY—†Greazel, Peter
 Hurley, C.
 Kurz, Geo. E.
 United States Plumbing Co.
 Unrath, Phillip W.
 IOWA FALLS—Carpenter, Frank
 JEFFERSON—†Bofink, Chas.
 Grinnell, Geo. F.
 KEOKUK—†Hanson, A.
 Hesbacher, M.
 King Plumbing Co.
 †Spring & Prasse
 †Sutton, W. P.
 †Vallers, Frank
 Williams, I. C. & Son
 KNOXVILLE—†Dickerson & Savage
 West, H. C.
 LE MARS—Norris, Elsworth
 †Symmes, Chas. D.
 Vandermeer, E. A.
 LYONS—†Gode, W. H.
 MANCHESTER—†Carhart & Nye
 MAQUOKETA—Jones, J. Frank
 Morse Plumbing Co.
 MARENGO—Haggerty, J. B.
 †Scott, Wm. R.
 MARION—Boles, Oscar M.
 MARSHALLTOWN—Barker-Buchanan Co.
 †Coulton, D. (Estate of)
 Hecker, Paul W.
 †Mack, E. & Perry, L.
 MASON CITY—Boyd & Boyd
 †Daggett, B. B.
 †Daly, W. J. Co.
 Garvey & Mulgrew
 MISSOURI VALLEY—Ford, C. W.
 MOUNT PLEASANT—†Thomas, George

MUSCATINE—Ashcraft, Frank
 Bodenkamp, Wm.
 †George Heating Co.
 Redmond, John
 †Tracy, Jas. A.
 NEW HAMPTON—†Ure, E. J. (Estate of)
 NEWTON—Baldwin, F. W.
 Seeberger, Charles
 OELWEIN—Ridler, J. W.
 Schlumbohn, George H.
 Scott Co. (The)
 OSAGE—†Kingsbury, J. B. & Co.
 †Tupper & Odden
 OSCEOLA—Dare, Geo. C.
 Palmer & Gregory
 OSKALOOSA—†Ideal Heating Co.
 †Iowa Mfg. Co.
 †Oskaloosa Plumbing & Heating Co.
 Quinn, Jno. J.
 Stewart, S. J.
 Sullivan & Lotspeich
 OTTUMWA—Caster, Samuel
 †Caton, E. J.
 Caton, Thos. J.
 †Mather, Ed. H. & Bro., 105 N Market
 †Ottumwa Fitting Co., 114 Green
 †Wise & Kearns
 PELLA—Den Hartog, J. H.
 PERRY—Ashmore, Jabez
 Perry Plumbing & Construction Co.
 Gilbert, T. J.
 †Miller Bros.
 RED OAK—Bogges, F. H. Co.
 Breese, S. B.
 Kelley, J. B. & Co.
 SAC CITY—†Aherns & Lowry
 †Bauer, W. P. & Co.
 Fox, Jno. M.
 SHELDON—Leverich, J. J.
 †Messer, E. P. & Son
 SHENANDOAH—Cardwell, J. J.
 Frink & Hamilton
 Keltner, D. E.
 SIGOURNEY—Hanlon, L. C.
 SIOUX CITY—Brown, Alex. H.
 †Gearen, J. F., 402 5th
 Hagan, V. L.
 Hamlett & Son
 Hills, E. O.
 Hogan, H. F., 4th & Peirce
 Krug, William
 Lambert & Harmer
 La Velle & Hogan, 422 5th
 Lye, W. E.
 Orr & Graves
 Ostling & Johnson
 Presley, V. P.
 Reed, J. H.
 Sanders-Burret Co.
 Sterling, Walter S.
 Valiquette, A. J., 402 Nebr.
 SPENCER—Bisbee, J. L.
 Staples, F. M.
 STORM LAKE—Dlugosch & Reinhart
 TAMPA—†Johnson, U. S. & Co.
 TIPTON—Barclay, G. W.
 TOLEDO—†Conant, A. H.
 VILLISCA—†Banes, J. S.
 Boise, S. C.
 VINTON—Vinton Plumbing Co.
 WASHINGTON—Bragg, W. N.
 WATERLOO—Duke, A. B.
 Eccleston, Henry
 Ellis & Foster, 610 Commercial
 Frush, Geo. H., Jr.
 Roberts & Hawkins
 Sheerer, George E.
 †Zook & Bentz, 519 Lafayette
 WAUKON—Wold, Hans
 WAVERLY—†Curtis, S. H. & Sons
 WEBSTER CITY—Mueller, A. F.
 WEST LIBERTY—Houston, W. A.
 WEST UNION—†Hoyt & Lawyer
 WINTERSET—Hudson, Fred.

KANSAS.

ABILENE—Abilene Plumbing & Heating Co.
 ANTHONY—Hale, D. F.
 Smith & Robinson
 Sohn, C. H.
 ARGENTINE—Hewitt & Berenzen
 ARKANSAS CITY—Bays, James R.
 Rowan, Wm. Supply Co.
 ATCHISON—Holbrook & Martin
 †Lyon, P. J.
 BURLINGTON—Black & Lansdown
 Brott, E. E.
 CHANUTE—Chanute Plumbing & Heating Co.
 Ebert & Seaholm
 Mallory Plumbing Co.
 CHERRYVALE—Cherryvale Plumbing Co.

CHETOPA—Smith, H. W. & Son
 CLAY CENTER—Oberland, A.
 †Wixon, A. A.
 COFFEYVILLE—Coffeyville Plumbing Co.
 Jones Plumbing Co.
 Noel Plumbing Co.
 COLUMBUS—Home Plumbing Co.
 Joachim, Charles
 CONCORDIA—†Belisle, E. A.
 Everett, A. E. & Co.
 †Robinson & McCrary
 COUNCIL GROVE—†Gibson & Davidson
 DODGE CITY—Misner & Potter
 EL DORADO—Lewis, G. K.
 ELLSWORTH—Fick, Wm.
 EMPORIA—†Bowers, F. H.
 Burnap Bros.
 Emporia Plumbing Co.
 EUREKA—†Morton, John W.
 Stuelpner, Max
 FORT SCOTT—†Ingham, Henry, 216 E Wall
 Jacobs, T. D. & Co.
 Jones, J. T. & Co.
 †Marshall, J. J., Market
 Parsons, Frank
 Warbasse, E.
 GALENA—Galena Plumbing & Heating Co.
 Moore, Day & Shivel
 GARNETT—Shrake, L. M. & Son
 Stein, E. S.
 GIRARD—†Hertner, H. E.
 Hitch, W. S.
 GREAT BEND—Kepple, R. F.
 Nettleman, Fred.
 HERINGTON—Murray & Forrer
 HIAWATHA—Fairchild, H. A.
 HOLTON—Bennett, Thomas J.
 Martin & Dorcas
 HORTON—Mellor, G. E.
 Winterscheidt, J. G. & Co.
 HUMBOLDT—Ewing, H. A.
 HUTCHINSON—Kissick & Stevens
 Reddersou & Peterson
 Wilson & Long
 INDEPENDENCE—Chicago Plumbing Co.
 Flack Plumbing Co.
 Independence Plumbing Co.
 †Whitman & Wood Supply Co.
 IOLA—Kansas City Plumbing & Supply Co.
 †Reinisch & Bott
 †Root, W. H.
 JUNCTION CITY—Stewart, James & Son
 Ziegler, F. F.
 KANSAS CITY—Anderson, A. T.
 Bowlby, C. A., 837 Osage
 Draper, E. D., 730 Minn. av
 Engler, B. F., 417 Minn. av
 †Erickson, J. E. T.
 Garnier, Albert, Jr., 912 N 5th
 Gilhaus, G. E.
 Hargreaves, G. C., 909 N 6th
 Harris, Charles E. Co.
 Holland, W. T.
 Hunter Bros.
 Kansas City Plumbing Co.
 Kinley & Peterson
 †McSorley, T. F. Co.
 Meyers, Albert J.
 †Miller, J. W.
 Nelson, Frel & Schenck
 Radcliffe, G. F.
 †Schultheiss & Armstrong
 Townsend & Neilson
 KINGMAN—Hoover, J. L.
 LA HARPE—Kohler Hardware Co.
 LARNED—Logan, Elmer E.
 LAWRENCE—Benson, J. A.
 Graeber Bros.
 Rahskoff, F.
 Rothwell & Whnn
 Savage, Geo. W.
 LEAVENWORTH—Anderson, Thomas
 †Foley, James, 220 Delaware
 Pinckney & Collar
 LINDSBORG—Holmberg, J. A.
 McPHERSON—†Falk & Co.
 Gustafson, Carlson & Co.
 MANHATTAN—Day, Lloyd
 Foss, C. J.
 MARYSVILLE—Grant Plumbing & Heating Co.
 Kraemer, W.
 MINNEAPOLIS—Lemon, E. J.
 NEODESHA—Sherman, E. D.
 Smith, F. W.
 NEWTON—†Follett, G. R. & Co.
 OLATHE—Keyser & Christie
 Nowling, H. C.
 OSWEGO—Liddell, R.
 Oswego Plumbing Co.
 OTTAWA—Bodley, H. S.
 †Elder, A. P.
 †Oelkers, C. B.
 Pettit, J. C.

Scevers & Smith
 PALOA—Confield, O. H.
 Leggett, J. A.
 PATSONS—†Coldwell, Amos
 Doughman & Rust
 McCaffrey & Williams
 Powers, James
 Street & Boyd
 †Workman, Chas. C.
 PITTSBURG—†Beasley & Miller
 Crescent Hardware & Plumbing Co.
 †Hartzell & Shout
 Shermau, J. S.
 ROSEDALE—Cattauach, J. A.
 SALINA—Hill, David & Co.
 †Salina Plumbing Co.
 STERLING—Wingett, F. C.
 TOPEKA—Ackebach, James C.
 Bobb, E. E.
 Brummitt, James
 Conklin & Gustafson
 Durkin, Jas.
 Johnson & Beck
 †Mood Heating & Plumbing Co., 117 W 6th
 Sheahan, J. & Son
 †States, Christian
 †Sutherland, G. W. & Co.
 Wells, Wm.
 White, J. K.
 WELLINGTON—†Crouse, G. H.
 †De Yoe, E. R.
 Wellington Plumbing Co.
 WICHITA—Baker, C. A.
 Bays, John W.
 Bosworth-Hahn Co.
 †Dermody Plumbing & Heating Co.
 Ford & Hinde
 Hoff, Frank & Co.
 Moore, Roscoe R.
 Morton Plumbing & Heating Co.
 Odell, N. M.
 Preston, C. A.
 Rodolph, R. O.
 WINFIELD—Cure, L. A.
 Dixon & McCoun
 Klugham, Robert
 Kropp, A. F.
 Winfield, W. D.
 YATES CENTER—Mertz, Roy

KENTUCKY.

ASHLAND—Kilbourne, Frank E.
 Menshouse, Charles
 †Nicholson, Wm. & Sons
 Union Plumbing Co.
 BELLEVUE—Keefer, George W.
 BOWLING GREEN—Ellis, S. E.
 Sumpter, E. B.
 CARROLLTON—Burke, W. P.
 Smith & Mitchell
 CATTLETTSBURG—Moran, J. T.
 COVINGTON—Balme, George, 16th c Madison
 Coyne, Jos., 11 W 6th
 Donnelly, J. P. & Co.
 Howk, J. M., 503 Madison av
 Kelly, E. C., 422 Main
 Lavanier, Frank, Jr.
 Maclean, Angus, 212 Pike
 Morrison, Thomas
 †Nock, W. S. & Co., 821 Madison av
 Norris, J. H., 20 E 5th
 Sheridan, Thos., 1115 Madison av
 Underhill, John T., 412 Scott
 Welling, Robt., 166 Pike
 CYNTHIANA—Mullen, H.
 Welling, John E.
 DANVILLE—Clark, T. F.
 Durham & Scott
 DAYTON—Hogan, Michael J.
 Kreidler, Edw. W.
 ELIZABETHTOWN—Phillips, M. N.
 Saunders, Burr C.
 FRANKFORT—Brislan, J. J.
 Jones & Miller
 Tifford, J.
 Whitehead, Charles
 FRANKLIN—Arnold, J. F.
 Harris & Crowder
 FULTON—Hughes, B. B.
 Osborne & Huddleston
 GEORGETOWN—Nunnally & Haynes
 Sublett, L. H.
 HARRODSBURG—Adams, John H.
 HENDERSON—Henderson Plumbing Co.
 †Huhlein, J. O.
 †Spidel, Jno. J.
 HOPKINSVILLE—Martin & Libbey
 Moss, E. M. & Co.
 LATONIA—Aker, Wm. C.
 LEBANON—Bunnell & Clements
 Johnston & Caskey

LEXINGTON—Ahern Plumbing Co.
 Eason, William B.
 Fitzgerald, J. J.
 Hamilton, W. H.
 Kentucky Plumbing Co.
 †Lexington Plumbing Co., 19 E Short
 †McElhone & Moloney, 19 Cheapside
 Milton & Minor
 †O'Day, Thos.
 Saunders, L. H.

LOUISVILLE—Abbott, W. R., 833 7th
 Albus, H. L., 1211 20th
 Alvon & Drexler Bros., 519 E B'way
 Baron, Jos., 1012 E B'way
 Biedinger, H. & Co., 637 E Main
 Bonkofsky, F. H., 1011 20th
 Bonkofsky, H. V., 2741½ Dumesnil
 Rosemer, J. J., 1014 3d
 Brady, W. J., 1706 7th
 Burke, M. E., 1079 3d
 Burnett, W. J. & Co., 645 W Jeff.
 Burwinkle, J. H., 2235 Brook
 Bywater Bros., 432 W Walnut
 Degen, H. C., 1124 26th
 Dott, Albert, 247 E Market
 Duffy, M. J., 527 W Market
 Eveslage Bros., 1606 W Market
 Garvey, T. J.
 Graft, J. D., 1211 Mulberry
 †Gray, William B., 22d nr Ormsby av
 Hart, T. B., 919 7th
 Henry, Jas., 411 3d
 Herrmann Bros., 734 E B'way
 Huxley, Thomas, 614 3d
 Isaacs, Jacob, 1101 1st
 Johnston, T. L., 124 E Breckenridge
 Koelner, L., 726 2d
 Kratz & Schouse, 701 Preston
 Lasch, C. F. W., 1045 3rd
 Leanhart, J. F. & Co., 712 W Jeff.
 Louisville Plumbing Co., 706 W Jeff.
 McGill, Chas. & Son, 111 W Market
 Matlack, W. H., 552 4th
 †McIcher, A. M., 731 W Market
 Meyer, F. W., 712 E Market
 Meyer, J. C., 1506 Baxter av
 Meyer, P. H., 1004 Preston
 Miller, D., 1917 W Walnut
 Miller & Sauer, 752 E Jefferson
 Moellmann, B., 566 E Green
 Murphy, Jno. H., 1115 19th
 Neff, C. W., 2206 W Market
 Nevin, H. L. & Bro.
 †Newman, H. W., 320 W Green
 Nolan Bros., 423 W Jefferson
 O'Brien, E. J., 616 2d
 Otte, J. L., 1612 Baxter av
 Otto, H. E., 663 3d
 Passig, C. A., 606 1st
 Ramsay's, A. M. Sons, 828 W Market
 Randall, T. S., 520 5th
 Rosenfield, L. J., 762 W Jeff.
 Roser & Hegen, 216 3d
 Ryan, J. & Co., 521 E Jefferson
 Schankel, P. C., 539 E Market
 Schardein, F. S., 603 W Market
 Shulhafer, Simon, 449 W Jeff.
 Spies, L. P., 464 E Jefferson
 Stickler, J. B. & Son, 417 W Walnut
 Watts, B. B., 319 5th
 †Welker, W. H., 1137 E Breckenridge
 Welsh, David, 632 7th
 †Werst, H. W. Plumbing Co., 553 3d
 Wharton, Roy, 514 W Green
 Zacharl, L., 1037 3d

MADISONVILLE—Bishop, W. W.
 Harned & Osborne

MAYFIELD—Hughes, J. J.
 Philpps, J. L.
 Randolph, A. W.
 Simon, Jno.

MAYSVILLE—Langfels, Larry & Co.
 Paul, Chas. B. & Co.
 Traxel, Geo. H.

MIDDLESBORO—Gallagher, S. O.

MOUNT STERLING—Williams, John W.

NEWPORT—Fulmer, George F., 620 Monmouth
 Kelleher, Cornelius J., N W c Isabella &
 Kruse, Albert, Jr., 108 E 8th Elm
 †McLane, James S. & Son
 Maher Bros.
 †Mordidge, George E. & Co.
 Richards, Walter J.
 Ryan, Jas. M.
 †Ulmer, Wm. A.
 White, Geo. W., 839 York
 †White, W. W.

OWENSBORO—Capelle & Troyer
 Lossie & Woods
 McDermott, M.
 Owensboro Plumbing & Heating Co.

PADUCAH—†Coulson, J. E.
 Coulson, M. M.
 Franke, Aug.
 Hannan, Ed. D.
 Schiffman, Fred.

PARIS—†Connolly, John J.
 Willett, Wm. E.

PRINCETON—Maret, H. T.
 Princeton Plumbing Co.

RICHMOND—McCarthy, Jas. J.
 Riff, J. M.

SHELBYVILLE—Choate's, H. Sons

SOMERSET—Wilson, J. F.

STANFORD—Aldridge, S. H.

WINCHESTER—Wasserboehr, G. N.
 Winans, Roe & Scott
 Winchester Plumbing Co.
 Witt, Grant & Co.

LOUISIANA.

ALEXANDRIA—Alexandria Plumbing & Con-
 Foisy-Barker Plumbing Co. struction Co.
 Kanapsky, Thomas

BATON ROUGE—Arbour & Gough
 Coignard, C. F.
 Gessel, Frank

DONALDSONVILLE—Dill, W. A.

JENNINGS—Boehm, J. O.
 Dobbins Iron Works (Ltd.)

LAKE CHARLES—Baird, W. E.
 Wolf & Cady

MONROE—Beil & Denny
 Thomas, C. L.

NATCHITOCHES—Thomas, George E.

NEW IBERIA—Ribbeck, F. J.
 Simon, George

NEW ORLEANS—Adams, H. A., 1106 Camp
 †Aitkin, J. H., 510 Camp
 Algiers Cornice & Plumbing Works, 161
 Delaroude

Antoine & Armstrong, 422 Dauphine
 Aschaffenburg Co. (Ltd.), 821 Baronne
 Babst, Emile M. & Co., 1050 Camp
 Becker, A. R., 607 Royal
 Bodeuger, Julius, 157 Delaroude
 Boettner, H. & Son, 1128 Tulane av
 Boldsore, S. J., 2823 Magazine
 Bruns, H. O., 3414 St. Charles av
 Burghardt, John D. Co., 214 Royal
 Cirino, Dominick A., 2857 Carondelet
 Correjoles & Schneider, 605 Bourbon
 Donnegan, Wm. P., 851 Baronne
 Dorn, Louis, 840 Baronne
 Dutilh, F. T., 1036 Royal
 Falvey, Wilson Co. (Ltd.), 409 Camp
 Flinn, J., 2049 Magazine
 Flynn, Jno. E., 1726 St. Charles av
 Galennie, J. S., 157 Baronne
 Gamache, Charles L., 1615 Milan
 Goreau, Thomas W., 1050 St. Charles av
 †Gormley, Frank J., 635 Chartres
 Hartwell, C. C. Co., 213 Baronne
 Hubbs, Edw. F., 2933 Magazine
 Hubert, Edmond & Co., 341 Baronne
 Iboe Bros, 522 Chartres
 Kelley, J. S., 834 Camp
 †Lambert Bros., 1037 Camp
 Leo, S. M. & Co., 1408 Berlin
 Loeffler, J. Co., 324 Bourbon
 McCay & Son, 1909 Camp pl
 McKendrick, Thos., 3312 Magazine
 Maher, Richard B., 501 Gen. Meyer av
 †Manion, J. E. & Co., 618 Baronne
 Mascaro, Roque, 6102 Magazine
 Petre, Jacob B., 604 N Rampart
 Petrie, Joseph, 727 Royal
 Quinlan, Patrick H., 2113 Magazine
 Schatz, Arthur, 1432 St. Charles
 Selby, Geo., 620 Poydras
 Snider, Schincke Co., 901 Carondelet
 Stechmann & Meins, 306 Dauphine
 Stewart, Samuel B., 216 Bourbon
 Stieffvater & Charlton, 836 Baronne
 Thiberge, Alex. J., 2135 Magazine
 Thiberge, Edw., 3313 Magazine
 Throunk & Lambert, 2114 St. Charles av
 Wagner & Disimone, 1202 St. Andrew
 White, John E., 1121 Josephine
 Yboe & Beyer, 701 Bourbon
 SHREVEPORT—†Dillenberger, Henry, Jr.
 †Hoke Plumbing & Heating Co., Texas av
 Murphy, John G.
 Pittsburg Plumbing Co.
 Porter, R. J.
 †Rosenblath, M. T., 215 Market
 Ward & O'Connell

MAINE.

AUBURN—†Allen, Jno. B. & Co., 160 Main
 †Arnold, E. A., 73 Main
 Chase & Corry, 17 Turner
 †Haskell, L. W. & Co., 105 Main
 AUGUSTA—†Cogan, J. H.
 †Larrabee, Joseph & Co.
 †Malcolm & Dyer, 159 Water
 †Taber, Carey & Reid, 269 Water
 †Ward, D. B.
 BANGOR—†Babb, C. H. & Co., 212 Exchange
 Carter, Ralph E. & Co.
 Carter, R. E. & Co.
 †Chamberlain & Adams Co.
 †Clement & Brown Mfg. Co., 201 Exchange
 Cullinan, C. H.
 Dole, Charles E. (Gas)
 †Fairbanks Bros., 93 Central
 Kelley, Edw. F. & Son
 †Lane, J. N. V.
 *Leighton Plumbing & Heating Co.
 McAuley, Joseph H.
 Mayo, B. W.
 Quinn, Thos. E.
 Wharf & Durgin
 BAR HARBOR—Carter Bros.
 Pierce, W. L.
 Stanley, R. E.
 Young, Frank T.
 BATH—Pratt, Fred. H.
 Redlon, J. A.
 †Sparks, William M.
 Winslow, J. A. & Son
 BELFAST—†Mitchell & Trussell
 Wright, C. L.
 BIDDEFORD—Anthoine, George A.
 Letellier, A. F.
 Monier & Mahoney
 BREWER—Woodbury, S. H. & Co.
 BRUNSWICK—Eaton Hardware Co.
 Furbish, B. L.
 Ridley, Geo. B.
 BUCKSPORT—Ames, H. F. & Co.
 †Beazley, E. L.
 Buck, H. E.
 CALAIS—†Donovan, W. H.
 O'Brien, Daniel
 CAMDEN—†Bowers, J. W. Co.
 CARIBOU—Shaw, H. M. & Son
 DEXTER—Crockett & Tilson
 †Fay & Scott
 EASTPORT—Daley, Jas. J. & Co.
 Loring, Frank C.
 †Martin, E. S. & Son
 Spates, W. A.
 Spates, W. T.
 ELLSWORTH—Aiken, F. B.
 Eldridge, Jno. P.
 FAIRFIELD—Donnelly, D. B.
 Rackliff, B. F. & Co.
 FARMINGTON—†McLeary, Wilfred
 Moody, C. B.
 Roderick, A. E.
 Spinney, H. I.
 FORT—FAIRFIELD—Cary, L. K. & Co.
 Dean, P. W.
 FORT KENT—Dugal, A. L.
 GARDINER—†Kelley & Wheeler
 Vannah Co.
 HALLOWELL—Fuller's George Sons
 HOULTON—Ferris, Wm. M.
 Fewer, William & Co.
 Gray, Wm. H. & Co.
 †McPartland, Jas. H.
 LEWISTON—†English & Dolliver, 272 Main
 †English & Dolliver, 272 Main
 †Goss, A. L. & E. F.
 Hall & Knight Hardware Co.
 Kerrigan, T. W., 257 Lisbon
 †Smith, J. B. & Co., 40 Main
 Stetson, J. H. Co., 65 Lisbon
 †Stone, W. A. & Co.
 LISBON FALLS—†Brewster, J. H.
 LUBEC—Trecartin Bros.
 MACHIAS—†Bowker, F. W. & Co.
 Clark, R. A.
 †Crane Bros.
 MECHANICS FALLS—Penney, J. W. & Sons
 NORWAY—Leavitt, W. C.
 Longley, Leon M.
 OAKLAND—Marshall & Co.
 York, B. O.
 OLDTOWN—Bean, V. W.
 Blanchard, E. A. & Co.
 PITTSFIELD—Getchell, T. E.
 Hazeltine, J. S.
 Raymond, C. S.
 PORTLAND—Cleveland, L. W. Co.
 Crocker, C. H. Co., 42 Preble
 †Davis, H. E. & Co., 151 Federal
 †Dow, A. L. & Co., 69 Union

Duffey, John H., 35 Free
 Fitzgerald Bros., 5 Wash'n av
 Godfrey, R. A.
 †Hutchinson, M. C.
 †Knight Bros., 304 Fore
 Lowe, Wm. A. Co., 16 Free
 †McCausland, Robert E., 77 Gray
 †McNair, W. & Sons, 33 Temple
 †Madsen & Allen, 675 Forest av
 Miller, Wm. J., 18 Temple
 †Myers & Mahoney, 73 Union
 †Nash, R. & C. B. Co., 386 Fore
 †Nash, O. M. & D. W., 6 Exchange
 †Smith & Abbott Co., 72 Union
 †South Portland Heating Co., 4 Cottage, K
 Straw, H. W. & Son, 276 Congress
 Tilton, C. A. & Co., 99 Sawyer, S. P.
 †Wheeler, Fred E., 645 Forest av
 †Willey & Calhoun, 46 Market
 PRESQUE ISLE—Nadeau, Benno
 RICHMOND—†Haynes, J. & Son
 †Rogers Bros. & Co.
 ROCKLAND—Shea, Arthur
 †Sleeper Bros.
 Wight, James
 RUMFORD FALLS—Blisbee, Stanley
 †Carroll, F. B.
 †Walker, F. O. Co.
 SACO—Bail, E. A. & Co.
 Lord, A. T. & Son
 †Norwood, Geo. A. & Co.
 Smith, Herbert
 SANFORD—†Bennett, Elmer D.
 †Huff, George W.
 Meagher, Patrick
 SKOWHEGAN—Nash & Viles
 Ross, C. A.
 †Steward Htg. & Plbg. Co.
 Wood, F. A.
 SOUTH BERWICK—McIntire, D. E.
 THOMASTON—†Weber, M. E.
 WARREN—Norwood, A. T.
 WATERVILLE—†Arnold, W. B. & Co.
 Fardy, John
 †Hanson, Webber & Dunham
 †Learned, G. L. & Co.
 WESTBROOK—McNair, J. F.
 WINTERPORT—Haley, F. W.
 WINTHROP—Donovan, J. A.
 WOODFORDS STATION—Cutts & Boyman
 †Madsen & Allen
 †Wheeler, F. E.

MARYLAND.

ANNAPOLIS—†Annapolis Stove & Tin Co.
 †Howard, Chas. A.
 Lee, Harry
 †Wilson, C. A. L.
 BALTIMORE—Addison, G. W., 801 Madison av
 Affayroux, Jno. F., 815 Hopkins av, E
 Ahlfeldt, Fred'k, 2041 E Oliver
 Armstrong, Edw'd A., 18 N 1st, E
 Baer, Jos. H., 615 E Fort av
 Baer, William, 1440 Jefferson
 †Balto. Sanitary Plbg. & Htg. Co., 104 E
 Barry, Jas. S., 2 W 22d, N Saratoga
 Barry, P. T., 1134 Linden av
 Baumgarten, C. J., 715 Hanover
 Beam, Allen W., 1719 Harlem av
 Belz, Jos. A., 125 W Preston
 Bennett Bros., 523 N Fremont av
 Berry, B. H., 253 N Arch
 Bibleheiser, F., 1424 Brunt
 Blederman Bros., 2064 E Eager
 Bier, Chas. C., 703 Covington
 †Bilson, Frank O., 1505 Patterson av
 Blazek, Chas. W., 917 N Wolfe
 †Boland, Thos. B., 402 N Howard
 Boswell, Geo. W., 111 S Eutaw
 †Bowman, H. C., 328 N Howard
 Breitenbach, Ferdinand, 225 N Wash'n
 Brenton, R., 404 Park av
 Breyer, F. F., 604 N Fremont av
 Breyer, F. Geo., 1316 Pa. av
 Burke, Edw. J., 1833 Pa. av
 Caltrider, Alvin W., 312 Roland av
 Carrick, Wm. J., 1821 Orleans
 Carruthers, Richard, 1427 W Balto
 Chenoweth, Geo. C., 1607 E Lanvale
 Clarke, Michael J., 939 Ensor
 Clifford, Chas. K., 1126 W Baltimore
 Coath, Wm., Jr., 1636 E Preston
 Coburn, David E., 1707 Riggs av
 Cooney, Jno. W., 746 W Saratoga
 Coster, Jas. T., 1908 Alsquith, ext.
 Davidson, C. Y. Co., 328 N Charles
 Day, Frank L., 1512 W Franklin
 Deal, I. A., 504 Oxford av
 Deal, Wm. C., 504 Oxford av
 Deal & Gorsuch, 1731 Harford av
 Delaney, M. J., 701 W Fayette
 Denker, H. G. S., Jr., 2011 Fkd. av
 Didenhoover, G. A., 1208 Edmondson av
 Dillow, Jno. R., 1001 N Mount
 Duffy, John T., 1028 Pa. av
 Dunnett, Wm., 647 N Eutaw
 Durham, Jas. O., 932 Fdk. av., ext.
 Dwyer, J. F., 121 W Mulberry
 Eidman, Chas., 700 Madison av
 Eurich, Jno. H., 2300 E Fayette
 Eurich, Henry, 2302 Boston
 Eurich, William, 2208 Boston
 Fannon, Jno. M. J., 723 E Chase
 Fardwell, C. T., 232 Park av
 Fardwell, W. R. & Co., 1100 Linden av
 Fingles, Jas. A., 726 Light
 Fitch, Jos. A. & Son, 1833 Orleans
 Foos, Jno. C., 1015 W North av
 Ford, Robert E., 400 Wilson
 Forestell, Jas. A., 507 Ensor
 Foster, Jas. M., 111 Clay
 Franklin, Charles H., 1435 W LaFayette av
 Frederick, M. J. & Bro., 317 Park av
 Frenkil, Isaac, 916 E Balto.
 Frosburg, Wm., 402 N Washington
 Fuchs, Henry A., 1130 Columbia av
 Gallagher, James, 906 E Biddle
 Gallagher, Jos. H., 2239 E Preston
 Gardner, Robert C., 18 S B'way
 Garrett, R. J., 522 Druid Hill av
 Gem Furnace, Range & Plumbing Co., 439
 E Lafayette av
 Gildenfenny, Chas. J., York rd nr Wood-
 Gildenfenny, J. H., 2425 York rd burne
 Gildenfenny, Thos. F., 1302 Greenmount av
 Glover & Co., 300 Park av
 Gorman, M. J., 620 Ensor
 Graham, John A., 1244 E Monument
 †Granbery, James E. & Co., 314 N Holliday
 Graydon, Jas., 1304 Edmondson av
 Greenberg, M. & Co., 143 N Gay
 †Groscup, Wm. Co., 2539 St. Paul
 Hagger, J. B., 1324 N Gilmore
 Harig, Jos. J., 17 W Hill
 Hassell, A. G., 840 N Howard
 Haupt, John M., 205 N Gilmore
 Healey & Bro., 603 N Calvert
 Hellbach, Wm. P., 651 W Balto.
 Henkel, Wm. G., 1021 Light
 Henkle, Milton, 104 W Pratt
 Herget, A. P., 3110 Hudson
 Heubeck, Geo. F. & Son, Fremont c Lex-
 ington
 Hibblits, Thos. P., 1233 W Baltimore
 Hoepner, Theo. B., 715 S Charles
 Hoffman, Chas. C., 916 W Baltimore
 Hopper, Wm. H., 1817 Hartford av
 Hughes, R. & Son, 14 W 20th, N
 Inderrieden, Jos. B., 1212 N Stricker
 Justi, Henry T. & Co., 230 Courtland
 Kach, Adolph J., 818 S Eutaw
 Keichenmeister, J. C. & Co., 614 E Fayette
 Keller, J. W., 609 Sewell
 Kerr, Henry J., 1000 E Baltimore
 Kirkley, Geo. S., 701 N Calhoun
 Kirkley, Jno., 2500 Pennsylvania av
 Kirwan, W. T. A., 10 W Fort av
 Klein, A. & Sons, 1114 Linden av
 Knight, John L., 1922 W Lexington
 Koethe, H. D., 18 S Liberty
 Kraft, Geo. R., 1020 N Mount
 Krauss, John W., 354 N Calvert
 Kries, Peter & Sons, 525 N Eutaw
 Laubert, H. Wm., 638 W Hoffman
 Leamann, Fredk. C., 1026 Hillen
 †Lenderking, Philip H., Jr., Dillon c Patux-
 Leonard, Harry F., 1718 Ramsay *ent
 Lock, Daniel A., 621 W Hamburg
 Long, Wm. J., 802 Light
 Lucas, Jas. B., 506 St Paul
 McAllister, Wm., 577 Dolphin
 McCahan & Co., 1402 Tenfoot al
 McColgan, Arthur J., 1925 W Lombard
 McConnell, C. H., 24 W Chase
 McCrea, Arthur H., 1216 Fkd. av, ext.
 McCrea, Jas. & Son, 9 N Carrollton av
 McCrea, Jesse L., 1115 N Fremont av
 Madgwick, Geo., 402 E Clement
 Mahorney, John W., 2226 E Lombard
 Maisch, Howard M., 1509 E Hoffman
 Marcks, Martin, 131 McMechen
 Maryland Plumbing & Tinning Co.
 Mattheisz, Wm., 1201 Haubert
 Mehring, Geo., 2423 Foster av
 Merz's, Henry Sons, 120 W Pratt
 Meyer, Theo. Max, 710 N Caroline
 †Miller, W. J. S., 856 W North av
 Miller, J. Frank, 1511 W Baltimore
 Miller, Wm. G., 3115 W North av
 Minnick, Geo. R. & Son, 857 Greenmount av
 Mitchell, Eug. I., 2702 Pa. av
 Mitchell, Jos. C., 604 N Calvert
 Mitchell, Lloyd E., 422 N Gay
 Mitchell, W. H., 1042 Greenmount av

Mitchison, Wm. J., 2404 E Chase
 Mohar, Robert, 1803 Aliceanna
 Morris, Eugene M., 1203 Edmondson av
 Mueller, Louis C., 1849 W Fayette
 Mueller, Michael, 1709 E Lombard
 Myers, Wm. F., 2806 Woodbrook av
 Oldenburg & Kelley, 310 Eastern av ext.
 Overcash, Thos. N., 1518 E Balto.
 Pirle, John J., 852 W Baltimore
 Popple, Harry F. & Co., 1822 Harford av
 Pruitt, Eug. R., 1737 W Pratt
 Quante, Louisa, 422 S Sharp
 Quartley, Herbert W., 909 Madison av
 Robinson, Jas. W., 1234 Pa. av
 Rogers, Edw. H., 102 N Schroeder
 Rossbach, Henry C., 319 S Sharp
 †Rothrock, W. H. & Co., 23 Light
 Rowles, W. W., 1103 Druid Hill av
 Ruckle, W. T., 845 W Lexington
 †Schaecher, C. H., 742 E Lombard
 Schaefer, Wm. H., 2107 Fdk. av
 Scharfe, Chas. & Sons, 1938 E Eager
 Schaub, Jno. & Son, 501 Albemarle
 Scherer, Phillip, 426 N Bond
 Schikner, Wm., 1130 S Charles
 Schlegel, Andrew, 223 S Sharp
 Schlegel, Arthur, 232 S B'way
 Schneider, Robert A., 1528 E Pratt
 Schwartz, Wm. F., 2213 Pa. av
 Scott Bros., 1301 E Preston
 Seabreeze & Dautrich, 543 N Patterson pk
 av

Sellman, John H., 2224 York rd
 Share, Albert, 1040 N Gay
 Sherry, Pat'k, 819 Madison av
 Shuley, Jos. H., 1230 Durst al
 Simms, Jas. A., 1701 McCulloh
 Sinclair, Perry, 2100 E Lombard
 Sndail, J. P., 2706 Elliott
 Smyrk Bros., 1315 Pennsylvania av
 Snyder, Adam, 923 N Gay
 Snyder, Christian, 1336 Harford av
 Squires, Jos. F., 1504 McHenry
 Stidham, Jas. D., 415 W Mulberry
 Stiebing, John F., 1845 Ramsay
 Sullivan, Daniel N., 219 Park av
 Sullivan, Patrick A., 1910 N Charles
 Super, Wm. H., 252 W Biddle
 Todd, Geo., Chase c Alsquith
 †Towson, W. W. & Co., 1028 Hillen
 Trainor, James, 2115 Madison av
 †Trainor, John, Builders' Exchange bldg
 Trainor, Patrick, 307 Mosher
 †Trotter, John R., 305 E Preston
 Tyler, Wm. B., 1511 Myrtle av
 Voltz, Fredk. W. J., 2809 N Fulton av
 Wachsmuth, Henry, 1534 Light
 Wagner, Chas. G., 1402 E Fayette
 Walther, Geo. W. & Co., 208 W Fayette
 Ward Thos. M., 1310 N Fremont av
 Ward, Wilbur F., 20 W Pratt
 Warfield, H. A., Liberty rd & 9th, W
 Weedon, Elias H., 1611 E Oliver
 Weems & Thoms, 1319 N 1st, E
 †Welis & Newton Co., 502 E Fayette
 Wentz, Oliver N., 16 E Fort av
 Wentz, Wm. H., 224 N Greene
 Whalen, Stephen & Co., 889 W Lombard
 White, B. Albert, 104 E Church
 Whitney, Richard A., 318 N Schroeder
 Wiedey, John, 424 N Bond
 Wigley Bros., 1004 W Fayette
 Wills, Wm. H., 23 E Centre
 Wilson, Jno. A., 107 Clay
 Wolf, Raphael, 11 N High
 Wolferman, John, 1729 Canton av
 †Wood, Wm. E. Co., 18 N Howard
 Yeagle, Daniel B., 3441 Chestnut av
 Yngling, Charles R., 5 S Fremont av
 Zimmers, A. M., 1808 Fkd av
 Zimmisch, Chas. E., 325 Park av
CAMBRIDGE—Cree, Richard
 Hoffman, Pylant & Co.
 Hughlett, T. Carter
 Le Comp & Brown Bros.
 Wright, Hubert H.
CATONVILLE—†Baldwin, J. L.
 Calrnes, R. M.
 McCrea, Frank A.
 Selcke, O. A.
CHESTERTOWN—Miller, Frank M.
 Sutton, W. C.
CUMBERLAND—Albaugh Bros.
 †Dcetz & Mullen
 Cope, A. M.
 †Farrier, John A. & Son
 Johnson, Jas. S.
 †MacFarlane & Shaffer
 †Rhind, J. W.
EASTON—†Flowers, Wills
ELKTON—†Alexander & Son
 Boulden, H. R.
ELLICOTT CITY—Stigler, A. M.

FREDERICK—Ebert, Edw. O.
 †Ebert, W. A.
 †Hahn & Rowe
 Mobley, E. S. & Bro.
 Wiener, George H.
 Wilson, N. J. & Son
FROSTBURG—Deneen, W. H. & Co.
 Price, D. D. Co. (The)
HAGERSTOWN—Carlisle, Robert B.
 †Hagerstown Heating Co.
 McGinley, E. J.
 †Moser Heating Co.
 Wagner, Harry R.
HAVRE DE GRACE—Parker & Redman
HYATTSVILLE—Dutton, W. S.
 Rushe, J. Frank
LAUREL—Radcliffe, W.
LONACONING—White, J. H.
POCOMOKE CITY—Peninsula Plumbing &
ROCKVILLE—Hall, A. L. Heating Co.
 Vielt, Wm. E., Jr.
SALISBURY—†Gunby, L. W. Co.
 Price, R. McKenney
 Richardson Bros.
 Rowe, Henry C.
SNOW HILL—Spurrler, H. C.
WESTERNPORT—Brady, J. P.
WESTMINSTER—†Gilbert & Gehr
 Shaffer, Frank S.
 Westminster Hardware Co.

MASSACHUSETTS.

ABINGTON—Dunham Bros. Co.
ADAMS—†Carney, J. J.
 †Connors, P. T.
 Hiser, Charles
AMESBURY—†Falconer, Charles
 Noyes, Eugene
 Reed, M. E.
AMHERST—Dance, Chas. W. & Son
 Mutual Plumbing & Heating Co.
 †Trott, Julius H.
ANDOVER—Knipe, Williams
 †Saunders, Geo.
 Welch, W. H.
ARLINGTON—Bain, Andrew
 Johnson, Albert
 †Knowles, Alfred H.
ASHLAND—†Enslin, Franklin & Co.
ATHOL—†Briggs, C. M.
 McDonald, J. H.
 Martin, John C.
 Smth, C. H.
 †Ward, A. T.
ATTLEBORO—Dillon, C. H.
 Flynn, Wm. F.
 Fogerty, W. J.
 Lynch, J. H.
 Pope & Read
 Seagraves, Jos. M.
AUBURNDALE—Gammons, R. F.
 Walker, E. A.
AVON—Stockwell, Orvill
AYER—†Fillebrown, A. A. & Co.
BALDWINVILLE—Cook, Roy D.
 Turner, Leonard E.
BARRE—Weeks, Wm. E.
BELMONT—Burke Bros.
BEVERLY—†Clafin, John H.
 Gladding, R. Smith
 Herrick, F. W.
 †Ingersoll, Frank A.
 McDonnell, Thos. J.
 Pickett & Goodwin
 Pierce & Pierce
 †Robertson, Robert Co.
 Wallace, Edw. L.
 †Williamson, Franklin W.
BOSTON—Adams, Samuel, 858 Dorchester av
 Adams, W. J., 863 Dorchester av
 Adcock, John H., 201 Tremont
 Ahern, Michael, 709a Boylston
 Allen Bros., 707 E 7th
 Anderson, J. A. Co., 1 Oakland
 Anderson, J. W. & Co., 155 Richmond
 Arey Bros., 713 E 4th
 Arkinson, W. F. & Co., 731 Boylston
 Baldwin, Chas. E., 35 Clarendon
 Bardsley, Jos. H., 3½ Telegraph
 Barnett, B., 9 Leverett
 Barrett, John R., 130 Harrison av
 Bassnett, J., 1 Tremont, Chas'n
 Bateman, Jos. W., 693 E 4th
 Bauer, Wm. J., 422 Blue Hill av
 Berrigan, John F., 5 Cobb
 Blake, Emerson & Co., 293 Hanover
 Bosse, A. J., 2526 Washington, Rox.
 Boston Plumbing Co., 184 Summer
 Bowen, Thos. J., 1579 Tremont
 Boyd, J. S., 2 Elliot sq
 Boyd, William, 1198 Harrison av
 Boyden, L. E. Co., 14 Brattle sq
 Bramhall, William, 10 Blue Hill av
 Branch, Geo. W., 20 Union
 Bray, C. A. Co., 117 Eliot
 Bresnahan Bros., 79 Harrison av
 Brown, Jos. & Co., 680 Centre, J. P.
 Brown, Robert F., 18 Cambria
 Bruen, George G., 651 Washington, Dor.
 Buckley, P. T., 469 Hanover
 †Buerkel & Co., 20 Union Park
 Burke, Jas. E., 12 Pitts
 Capper, Porter F., 152 Mt. Vernon
 Capper, T. H. & Son, 122 Mt. Vernon
 Carder, M. A., 53 Norway
 Carey, Thomas F., 1188 Tremont
 Carley, P. F., 16 Huntington av
 Carr, Danl. A., 61 Leverett
 Carruthers, H. & Co., 5 Henry, E. B.
 Clark Bros., 215 Endicott
 Cleaves, Stephen A., 631 Wash'n, Dor.
 Cohen, Meyer, 55 Lowell
 Collins, M. & H. H., 23 Guild row
 Conlon, John P., 3 Stoddard
 Connolly, Thos. T., 71 Dundee
 Cook Bros., 17 Wainut, Nep.
 Cooper, Chas., 6 Main
 Cosden, J. W. & Co., 246 Mass av
 Coutts, James, 343 Centre, J. P.
 Coyne, Thos. F., 286 Blue Hill av
 Craig, David, 70 Broad
 Crawford, Jas., 311 Warren, Rox.
 Crawford, John, 41 Howard
 Cronin, C. H., 91 Charles
 Crozier, I. W., 30 W Canton
 Cunniffe, B. J., 1578A Tremont
 Cunningham, L., 570 Shawmut av
 Curtis & McCormack, 191 Bunker Hill
 Dean Bros., 112 Whitfield
 Denvir, R. F., 15 Main
 Descaizo, L., 55 Sudbury
 Devlin, T., 392 Commercial
 Donlan, J. F., 488 Boylston
 Donnelly, Jno. D. & Co., 21 Lauriat av, Dor.
 Donovan, Daniel B., 165 Eliot
 Driscoll, Fred'k J., 1625 Blue Hill av
 Driscoll, C. P. & Co., 100 Essex
 Drury, John P., 99 Endicott
 Duggan, Daniel J., 1A Decatur
 Duggan, Gregory M., 56 Lenox
 Dwyer, J. F., 114 Market, Br.
 Egleston Square Hardware & Plumbing Co.,
 3105 Washington
 Farley, E. J., 303 Blue Hills av, Rox.
 Fellerman, Samuel & Co., 454 Shawmut av
 Fennessey, E. J., 235 Dudley
 Fillebrown, M. E. Mrs., 600 Dudley
 Finley, J. A., 20 Franklin, Alls.
 Finnerty, D. G., 478 Boylston
 Fitzgerald, D. J., 2692 Washington
 Fitzgerald, E. F., 1368 Washington
 Fitzgerald, Jno. H., 2 Columbia
 Fitzpatrick, W. J. Co., 30 Pemberton sq
 †Florence, W. E. & Co., 122 Purchase
 Flynn, Jos. & Co., 981 Boylston
 †Forbes, Elon E., 49 Hardwick, Br.
 Fratus, M. S., 51 Commercial
 French, J. Warren & Co., 511 Tremont
 Gaddis, L., 13 Oak
 Gannon, W. N., 324 Washington, Br.
 Gardner, A. C., 1 Harrison av
 Gerley, Jno. A., 370 Centre, J. P.
 Gibson, L. R. & Son, 1158 Wash'n, L. M.
 Gilbert, Charles R., 62 Joy
 Godfrey, B. F. & Co., 769 Centre, J. P.
 Granara, Andrew J., 174 North
 Grant & Copeland, 2 Wheeler
 Green, J. H., 47 Norman
 Greenlaw, H. C., 778 Tremont
 Greenleaf, Wm. H., 17 Charles
 Griffith, W. H. & Co., 161 Cambridge
 Grozinger-Wilson Co., 33a Waltham
 Gunning, M., 32 Bennett
 Hadley's, Benjamin Sons, 361 Main, Chas'n
 Haley, Wm. & Co., 9 Academy Hill rd, Br.
 Harris, S. M., 83 Prince
 Haskell, W. H., 32 Broad
 Hatch, H. A. & Co., 15 Hyde Park av
 Hatch, H. N., 130 W B'way
 Heath, Edw. R., 143 Main
 Hebblethwaite, A. E., 22 Cazenove
 Hennigan, Thos. J., 88 Main
 Herbert, M. M., 747 South, Rox.
 Hersum, Arthur L., 27 Province
 Hofferker & Serres, 107 Clinton, Rox.
 Hogan, J. E., 558 Shawmut av
 Holder, H. A., 122 Dudley
 Holmes, Jno., 186 Wash'n, Dor.
 Hoyt, F. J., 98 Harvard, Dor.
 †Hney Bros., 35 Hartford
 Hussey, Henry & Co., 84 Harrison av
 Hynes, E. H., 188 Summer, E. B.
 Jacobs, Louis H., 9 Walden

James & Condon, 7 Doane
 Jennings, Geo. C., 654 Washington, Dor.
 Johnson, S. S., 77 Haverhill
 Johnson, Wm. A., 77 Dover
 Johnson, Wm. B., 17 Malden
 Johnston Plumbing Co., 26 Brattle
 Jones, James G., 227 Main, Chsm.
 Jones, Walter P., 1272 Dorchester av, Dor.
 Keane, M. J., 514 Tremont
 Kearney, M. O., 4 Blossom
 Keaton, A. J., 2387 Washington
 Kelley, J. P., 10 Roxbury
 Kelley & Gaffey, 327 Warren, Rox.
 Kelly, Edward C., 195 Centre, Rox.
 Kelly, Jno. C., 1246 Tremont, Rox.
 Kelly, M. J., 2762 Washington
 Kelly, M. T., 28 Prince
 Killian, John H., 95 Eustis
 Killian, D. F., 1181 Harrison av
 Kimball, Fred. M., 46 Cornhill
 King, Chas. & Co., 279 Meridian
 Kinnaly, Daniel J., 126 Emerson
 Lang, P. A., 232 Summer, E. B.
 Lawrence, L. F., 4282 Wash, Ros.
 Leighton, H. B., 9 Province ct
 Lennon, James P., 1419 Tremont
 Levin, W. I., 9 Minot
 Lewis, D. J., 22 Marshall
 Logan, James J., 203 Hampden
 Long, T. J. & Co., 268 Shawmut av
 Lovett, T. F., 192 Shawmut av
 Luttet, T. & W. (Ltd.), 148 F. S. B.
 Lynn & Murphy, 32 Beunington
 McAuliffe & Bertram, 628 E B'way
 McCarty, Jas. J., 291 Centre, J. P.
 McCoole, Jno. C., 15 Pemberton sq
 McCormack, E. R., 733 E B'way
 McDonald, Thos. H. & Co., 1644 Washington
 McGiven, Jas. A., 493 Quincy, Dor.
 McGloan, Jno. F., 19 River
 McGonagle, W. F. Sons, 20 Staniford
 McKeagney, Thos. B., 6 Hingham
 McKenna, Wm. N., 79 Chestnut
 McLaughlin, M. J., 161 Endicott
 McMahon & Jaques, 242 Mass. av
 McVarish Co., 158 Main
 MacLeod, E. J., 46½ Lenox
 Madden, John S. & Co., 33 Boston
 Maddocks, Thos. E., 156 Norfolk, Dor.
 Manning, Jno., 342 Shawmut av, Box.
 Marchant, E. H., 12 Province ct
 Martineau, Edw'd, 53 Maverick sq
 Matthews, Thos. A., 217 Wash., Dor.
 Meltzer, A., 84 Brighton
 Michaelson, B., 115 Leverett
 Mills & Moore, 35 Bradford
 Mitchell, Lee E. & Co., 48 Sudbury
 Mitchell, Wm. H. & Son, 1 Province ct
 Mondelsy, Israel, 383 Harrison av
 Moore, Ed. & Co., 9 Causeway
 Moran, Michael & Co., 76 Harrison
 Morse Bros., 115 Merrimac
 Mulkern, M. J., 14 Devonshire
 Murphy, Daniel M., 1055 Tremont
 Murphy, Patrick, 29 Scotia
 Murphy, T. F., 142 Dorchester av
 Murtagh, W. J., 7 Church
 Nelligan, Morris W., 224 N 8th
 Nettles, Dennis H., 788 Tremont
 Nickols & Carpenter, 350 Washington, Dor.
 Nolan & Blen, 59 Cambridge
 O'Brien, G. E., 27 Washington, North
 O'Brien, Wm. & Co., 26 Church
 O'Connell, James O., 405 Market, Br.
 O'Connell, John, 65 Oliver
 O'Donnell, Henry, 59 Leverett
 O'Neil & Leahy, 44 La Grange
 O'Neil & Son, 1391 Dor. av
 O'Riordan, D., 473 Cambridge, Alls.
 Osborn, P. J., 5 Bellevue, W. R.
 Palmer, Kendrick, 479 Tremont
 Pearce, W. A., 6 Province ct
 Perry, J. P. & Co., 195 Devonshire
 Pierce & Cox, 143 Kingston
 Poole, F. W., 36 Exchange
 Poole, Orrin Co., 220 Devonshire
 Ray, J. S., 321 Wash'n, Dor.
 Reardon, W. B., 384a Warren, Rox.
 Redmond, Jos. W., 376 Columbus
 Rice, Harris F., 654 Washington, Dor.
 Richardson, W. G., 3 Birch, Rox.
 Richardson & Clement, 20 Union
 Riley, E. A., 9 Tyler
 Riley, Isaac, 73 Brimmer
 Riley, Jas. H. & Co., 10 Minot, Nep.
 Riley, Peter A., 8 Walnut av
 Roemer, W. G., 169 Boylston, J. P.
 Rosenberg, M. & Co., 48 Cross
 Ross, D. W., 1882 Dorch av
 Rowen Bros., 45 Green, J. P.
 Ruby, A. F., 460 Main
 Rutherford, T. S., 101 Park, W. R.
 Ryan, Fred F., 10 Park, Chsn.

Sands, Stephen J., 32 F. H. sq
 Sawyer, Edward G. & Co., 12 Province ct
 Schuites, O. R., 653 Parker, Rox.
 Schwehr & Co., 139 Northampton
 Sculley, J. F., 66 Warren, Rox.
 Sennott, Geo. P., 2959 Wash'n
 Shannon, D., 68 & 98 W Dedham
 Sharpe, John B., 235 Bowdoin, Dor.
 Sharpe, T. E., 4 Province ct
 Shea & Smith, 331 Washington, Br.
 Sheridan, Wm. R., 99 Kneeland
 Short, W. M., 89 Dorchester
 Silva, Jos. I., 34 Cornhill
 Slattey, Richard P. & Co., 82 Essex
 Sloan, George H., 243a, D. S. B.
 Smith, A. M., 48 Green
 Smith, A. & Co., 14 Oxford ter
 Smith, Chas. H., 65 River
 Smith, Edw. J., 645 Saratoga
 Smith, Louis, 152 Chambers
 Smith, P. J., 726 E B'way
 Smith & Forbes, 70 Pembroke
 Spear, B. P. & Co., 10 Thompson, Chsn.
 Steele, Wm., 1 Baker pl, Rox.
 Stokes, Jas. F., 377 Charles
 Todd, Jno. S., 341 Adams, Dor.
 Stone, John A. & Co., 9 Appleton
 Sullivan, P. J., 11 E Concord
 Sullivan, Thos. A., 37 Savin Hill av, Dor.
 Sullivan & Callahan, 17 Tyler
 Tague, Jno. J. & Co., 58 Bunker Hill
 Taylor, S. E., 1885 Dorchester av
 Thompson & Spear, 30 Oliver
 Thornton, Thos. E. & Co., 206 St. Botolph
 Thurston, F. W., 197 High
 Todd, John S., 341 Adams, Dor.
 Toland, John A., 202 Adams, Dor.
 Touchet, A. E., 70 Beacon
 Towle, L. J., 30 Beach
 Tretheway, Hy. S., 19 Robert
 Tucker, James & Sons Co., 97 High
 Tucker & Co., 8 Appleton
 Tully, Jno. K., 1414 Tremont
 Turnbull, D. A., 1915 Centre, W. R.
 Tute, Thos. J., 77 Church, W. R.
 Vogel, Joseph P. & Son, 131 W Brookline
 Wallis, Stanwood, 63 Florence, Ros.
 Walter, J. A. & Co., 685 Centre, J. P.
 Walters, John J., 145 Northampton
 Ward, T. F., 157 Green, J. P.
 Waters, Frank P., 104 Summer, E. B.
 Watt, Lewis C., 89 Joy
 Welch, Thos. J. & Co., 4 Appleton
 Wells, Otis C. & Co., 347 Warren, Rox.
 Wells & Newton Co., 183 Essex
 Westwood, Walter, 61 Harvard
 Williams Bros., 486 Dudley
 Williams & Flye, 40 Lex., E. B.
 Wilson, Geo. A., 73 Essex
 Wilson, Jas. F., 17 Dudley
 Woods, J. F., 753 Dudley, Dor.
 Woodworth, J. N., 321 Meridian, E. B.
 Yeager, Fk., 12½ Decatur
BRAINTREE—Hollingshead, H. J.
 Ludden, J. E.
 Metcalf, O. F.
BRIDGEWATER—Fairbanks, J. H.
 Rogers, J. B.
 Shaw, C. M.
BROCKTON—Alden Sheet Metal Working & Plumbing Co.
 Baker Bros. & Co.
 Brown, John J.
 Carr, J. E. & Co., 1036 Main
 Corcoran, J. T., 20 High
 Corcoran, Jos. F.
 Dalberg & Anderson
 Donovan, V. R. & Co.
 Dow, Howard M.
 Gilligan Plumbing & Heating Co.
 Goodridge Bros.
 Kinney Heating & Supply Co.
 Lyuch, Daniel & Co.
 McCabe, A. F., 65 Main
 Powers & Meehan
 Spear, E. T. & Co.
 Waterman, C. H., 753 N Main
 Wells, W. H.
BROOKLINE—Connor, F. B., 44 Stanton
 Conroy, Thos. A.
 Courtney & Martin
 Crosby, Edwin F., 211 Washington
 Curry & McKenzie
 Keegan, Jno., Monmouth st
 Kenrick Bros., 214 Washington
 Larkin, Jos. H.
 Lewis & Drew
 McMahan, Frank H., 178 Wash'n
 Mahon, Thos., 192 Wash'n
 Muldowney, F. F., c Walnut & High
 Murray, H. J. & Co., 266 Wash'n
 Nettles, Stephen
 Pliner, James A.

Rogers & Purdy
 Small, F. A.
 Thoruton, Thos. E.
CAMBRIDGE—Balcom, A. W., 850 Main
 Baumeister, Augustus, 2 Palmer
 Baumeister, Frank E. & Co., 29 Boylston
 Brock Bros., 1372 Massachusetts av
 Brock & Eaton, 1362 Massachusetts av
 Clark, Ernest W., 1440 Massachusetts av
 Dickson, Geo. F., 617 Massachusetts av
 Doherty, L. F., 15 Central sq
 Fallou, C. A., 1190 Cambridge
 Fallon, Stephen D.
 Frost, L. S., 2445 Massachusetts av
 Good, T. W., 27 Brattle
 Greene & Co., 723 Massachusetts av
 Haley, Wm., 1965 Massachusetts av
 Hanna, Richard E., 4 Upland rd
 Hanna, Wm. J. & Son, 3 Blake
 Hawkes, Levi, 623 Massachusetts av
 Higgins & Co., 706 Massachusetts av
 Keefe, Daniel J. & Co., 130 human
 Levins, Geo. H., 24 Harvard
 Loug, John J., 255 Cambridge
 Martin, Thomas F.
 Martin & Reno, 136 Cambridge
 Millner, Charles D.
 Moulton, Henry T., 823 Main
 Moyuahan & Co., 1233 Cambridge
 O'Leary, W. H., 87 Mt. Auburn
 Pennie, W. A., 10 Springfield
 Phelan, J. T., 17 Brattle
 Ricker, Albert H., 14 Boylston
 Rose, H. L., 13 River
 Rosenberger, J. B., 256 Webster av
 Stevens, J. H. & Co., 694 Massachusetts av
 Stewart, G. L., 19a Western av
 Sweeney, Thos. C. & Co., 627 Cambridge
 Sweeny, Wm. H., 531 Cambridge
CAMBRIDGEPORT—(See Cambridge)
CAMPELLO—(See Brockton)
CANTON—Coveney, Frank E.
 Gray, James E.
 Rowe, Jason N.
CHARLESTOWN—(See Boston)
CHELSEA—Carter, Columbus N.
 Cronin, J. J. & Co.
 Davis, Samuel C.
 Feldman, A. & Co.
 Goldman, S.
 Kent, H. & Son, 20 Washington av
 McHatton, A. P. & Co.
 McLeod, Gilbert D.
 Mann, A. K. & Co., 395 B'way
 Moore, Jno. J., 63 Park
 Oxten, Chas. F., 67 Park
 Rittershaus, Herman J.
 Ruggies, A. L. & Co.
 Tucker, J. C. M., 721 B'way
 Walters, I. J. & Co.
 Webber, C. E., 175½ Winnisimmet
CHICOPEE—Benn, G., 45 Cabot
 Ludden, C. A., 252 Exchange
 Noonan, John F.
CHICOPEE FALLS—Donnelly, Wm. E.
 Enright, P. J.
CLINTON—Gormley, James L.
 McLeod, George
 Maitland, R. & Son
 O'Toole Bros.
 Walker, W. H.
COHASSET—Bates, Allen C. (Estate of)
 O'Neil, John H.
CONCORD—Vanderhoff, Albert
 Vanderveer, J. J. & Co.
CONCORD JUNCTION—Poor, F. E.
DALTON—Ford & Parker
 Shedd & Messinger
DANVERS—Caskin & O'Connell
 Putnam, Ralph F.
 Ropes, J. Edward & Co.
DEDHAM—Harris, Jno. H.
 Reeves, D. Victor
 Sawyer & Dean
 Wiun, E. J.
EAST BRIDGEWATER—Webber, George M.
EAST CAMBRIDGE—(See Cambridge)
EASTHAMPTON—Manchester, G. L.
 Newkirk & Thurston
 Owen, B. P.
 Ryan, J. P.
EAST WEYMOUTH—Ries, G. J.
EDGARTOWN—Chirgwin, T. H.
EVERETT—Bowles, Joseph B.
 French, E. L. & Co.
 Garvey, T. F.
 Mullen, Jno. J.
 Small, Alexander T.
 Small & Co.
 Torngren Bros.
 Woods, F. B.

FAIRHAVEN—Delano, Clarence F.Forrest, E. W.
Horton, L. W.**FALL RIVER**—Benson, W. F., 1247 PleasantBuckley, John, 610 County
†Burnham, C. H. Co., 88 4th
Chabot, George E., 1460 Pleasant
Cleary, Michael, 787 Globe
Coleman, T. J. & Co., 697 Davol
Dixon, John, 71 Branch
Estes, W. H., 192 Bedford
†Fall River Steam & Gas Pipe Corp., 197 Pleasant†Flanagan, H. L., 480 Division
Fogwell, Richard E., 239 Warren
Foley, Wm. W., 23 Rodman
Gildard, J. H., 981 S Main
Greene, Jno. C., 181 2d
Hennessey, Michael C., 350 S Main
Johnston, J. J. Co., 371 Central
Jones, Herbert O., 801 N Main
Kennedy, Wm., 256 Pocasset
Lagasse Bros. Co., 23 9th
McGraw, James, 405 County
†Miller, Nathan, 211 Pocasset
Nichols, Jno. B., 334 3d
Peavey, J. F., 224 Elm
Preston, George H., 107 Quequechan
Sullivan, Mark A., 416 Spring
Sweeney, Daniel J., 125 Mulberry
Whalen, W. H. & J. F., 152 3d
Whitaker, Peter, 1432 S Main**FALMOUTH**—Falmouth Plumbing Co.Lawrence & Hall
Nickerson, J. L.**FITCHBURG**—Barr, Jas., 31 Lincoln†Brownell & Mason, 159 Main
Farrar, George W., 455 Main
Fitzgerald Bros., 19 Prichard
†Hart, P. J., 353 Main
†Jennison Plumbing Co., Putnam nr R. R. Crossing
Knowlton, G. B., 3 Main
Mack, Jas. H., 36 Day
Nelson, Fred. E., 119 Pearl
Parks, G. M. Co., 453 Main
†Ronan, Geo. & Co., 32 Crescent
Sullivan, Jno. H., 200 Water
Whooly, Daniel J.**FOXBORO**—McNary, John H.

†Swift, E. B.

FRAMINGHAM—†Connor Bros.**FRANKLIN**—Dauphine, Geo. M. & Co.†Hosie, Horace W.
Newell, R. C. & Co.**GARDNER**—Carey, J. R.Curtis, H. O. & Co.
Grammont, Euclid
Riordan, P. A.**GLOUCESTER**—Beaton & PowersBolger, Thos. P. & Co.
Cole, Albert R., 55 Main
Hale, J. P. & Co.
Loring, W. B.Smith, Jas. S., 59 Washington
†Smith, L. E. Co., 221 Main
Stenstreln & DeLoid**GREAT BARRINGTON**—Lahey, John & Co.

McManus, James

GREENFIELD—Corsiglia, Geo.†Haverly & Cook
Hubbard, J. E.
Kennedy, J. B.
Mason, George W.**GROTON**—Blood, F. M. & Co.Blood, Geo. H. & Co.
Murphy, David E.**HAMILTON**—Robertson, Robert Co.**HANOVER**—Magoun, H. N. & Co.**HAVERHILL**—Bennett, W. C. & Co., 41 EmersonBlake, C. M. & Co.
Goodrich & Collum
Haverhill House Heating Co., 80 Wash'n
Kavanaugh, W. J. & Co.
McAree, Granton & McAree
†Mills & McClintock, 22 Main
Owens, E. C. & Co., 24 Main, B. D.
†Sawyer & Dean, 41 Locust
Staples & Gile
Sullivan, Jno. J., 117 Winter
Whitehouse, Edwin A., 49 Main, B. D.**HIGHLANDVILLE**—Thomas, Henry**HINGHAM**—Loring, Enos

†Rich & Marble

HOLYOKE—Bowe, Martin F.Bowler, D. J.
Cousineau, Alfred F.
Donnelly, P. J.
†Doran, G. & Co., 120 Front
Friederich, E. H., 73 Sargeant
Gavin & Morlarity, 468 High
†Holyoke Valve & Hydrant Co.

†Kearns, Michael J., 16 Spring

†Kilbride, Thos. F., 135 Main

†Lyman, Chas. P., 139 Main

†Sullivan, C. F. & Co., 36 Main

Sullivan & Carmody, 173 High

Sullivan-Tucker Co.

Washington, A. G., 266 Hampden

HOPKINTON—Clafin, W. B. & Son**HUDSON**—Glines, Grace L.Shaw, Frank A.
Sweeney, Daniel F.**HYANNIS**—†Bond Bros.

Bradford, M. G.

Phillips, Henry G.

HYDE PARK—Bates, Benj. G., Slater blk

Dolan, Thos. J., 54 Webster

Fall, J. B., 24 Station

†Gleason, F. W. & Co., 52 Fairmont av

†Jenkins, Henry E., 53 Fairmount av

Pagington Bros.

†Rooney, Jno. F., Pine opp Depot

Smalling, W. E., 49 W River

INDIAN ORCHARD—Eaton, Wm. T.

Page, L. P. & Co.

IPSWICH—Dunnels, J. M.

Plouff, A. H.

Rand, W. H.

KINGSTON—Clarke, Geo. H.

Haskell & Benson

†Myrick, W. H.

Myrick, Wm. W.

LAWRENCE—Banville, P. W.

Barr, J. E., 96 Amesbury

Blanchette, Wilfried

Bush, Martin L.

Condon, T. F., 401 Common

Cusack, Wm. C.

Davey, Peter B., 8 Short

Devlin, Edw'd H.

Dodson, Geo. W. & Co., 286 Essex

Donovan, Chas. A., 8 S B'way

†Forbes, Wm. & Sons, 450 Essex

Holt, Chas. L., 36 Berkley

Lawrence Plumbing & Heating Co.

Lynch, C. F., 415 Common

McCabe & Finzel

McCarthy, John F.

†Riley Bros., 402 Essex

Rupf & Seisig

†Rutter, W. F. & Co., 40 Appleton

Smart, G. B., & Co., 61 Essex

†Sweeney, P. J., 564 Essex

Walnwright & Gebelin

Welch, Jos. F.

LEE—Hayes, M. H.

Howland, W. C.

O'Brien, John A.

Smith & Hawks

LENOX—†Bull, W. B.

Kirkwood, Jno.

†O'Brien, Richard

LEOMINSTER—Burrage, H. E. Co.

Cook, Henry & Son

†Farnsworth, John B.

Kendall, Geo. M. & Son

†Lyon, Orlo H.

†Smith Bros.

LEXINGTON—Burke, W. H.

Hooper, Forrest & Co.

Lawrence, Lyman

LOWELL—†Barker, H. B. Mfg. Co., 158 Middle

Bassett, Frank E., 565 Middlesex

Caddell, James

Carroll Bros., 36 Middle

†Carroll, E. J. & Co., 73 Middle

Costello, Thos. & Co., 212 Central

Danahy, Jas. D., 718 Lawrence

†Desmarais, Edelmard S., 720 Aiken

Devany, Edw'd W., 51 E Merrimack

Drury, Jno. E., 28 Jackson

Duncan, Jno., Jr., 421 Bridge

†Farrell & Conaton, 243 Dutton

Gaffney & Kerwin

Green, Geo. P., 35 Market

Hanaford, Geo. G. & Co., 9 A

†Hanchett & Co., 316 Middlesex

†Harvey, Joseph, 420 Suffolk

Kelley, Jno. W., 370 Bridge

Leary, Daniel J., 314 Market

McElholm, Wm. H., 121 Fletcher

†McLarny, Wm. & Co., 493 Middlesex

Maynard, Elmer E., 85 Branch

Mullin, D. W. & Co., 836 Middlesex

O'Malley, Geo. S., 24 Dover

†Scott & O'Day, 54 Appleton

†Stewart, John W., 359 Bridge

†Welch Bros., 61 Middle

†Welch, P. F., 1024 Central

†Wilder, H. H. & Co., 29 Market

†Wilson, D. H. & Co., 279 Dutton

LYNN—Allen, Robert T., 2 Franklin sq, N

Barton & Nies, 166 Broad

†Billings, E. B., 15 Silsbee

Brown, Warren F., 17 Central av

Caswell, George W., Saugus

Connelly, Thos. F., 586 Western av

Cousens, Geo. N. B., 52 Silsbee

†Curry, James H., 45 Andrew

Cutts, Emory W., 873 Western av

Dame, Melvin A. & Son Co., 86 Munroe

†Danforth, Walter H., 107 Essex

Davis, John B.

Day, Chas. A., Hospital av

DeLory, W. A., 254 Humphrey, Swampscott

Demmick, Geo. W., Linwood rd nr Union

Feehan, John B. Hospital

Flint, O. A. & Sons

Gard, A. F.

Gard, T. P. & Co., 257 Broad

Gorham, L. E., 158 Chestnut

Hall, Guy A., 116 Maple

Hannaford, Delia A.

Harnois, Ernest & Co., 317 B'way

†Heath, H. W., 418 Washington

Hughes, Jas. R., 757 Western av

Kellary, Jas. P., 28 Summer

McGilvray, Jos., 61 Market sq

McSweeney, Daniel G., 2 Violet

MacDonald, H. J. & Co., 11 South

Mansfield, John F.

†May, L. A. & Co., 47 Central av

†Morgan, John F. & Son, 66 Munroe

Parker, Geo. C.

Pender, Richard T.

†Perkins, Fred. L., 19 Buffum

Philbrick & Pope, 400 Humphrey, Swamp-

†Reardon, T. B., 29 Central av scott

Stoddard, G. F., 199 Chestnut

Thompson, Randall & Libby, 1 Blake

White, R. J., 10 Mulberry

MALDEN—Fredericks & Sullivan, Biltmore st

Fryer, John

Kenny, F. P., 335 Highland av

McDonald, Jno. H. & Co.

Meyers, A. J. & Co., 8 Faulkner sq

Powers, John A., 517 Salem

Smith, Alton S.

Taber, J. B. & Co.

Tartikoff & Rotberg

Taylor & Coakley

Troland, Edwin, 58 Pleasant

†West, Alonzo A., 246 Pleasant

MANCHESTER—Bradley, Edw'd S.

Lethbridge, William J.

†Robertson, Robert Co.

MANSFIELD—Fuller, W. C. Co.

Phinney, H. E.

MAPLEWOOD—(See Malden)**MARBLEHEAD**—†Doane, Ernest S.

Donovan, Peter J.

Doyle, Edward

Driscoll & Co.

MARLBORO—Flynn, Charles F.

Hall, George R. & Co.

†Hill, W. H., 114 Main

†O'Grady, C., 44 Main

White & Meanor

MAYNARD—†Holt, A. D.

Townsend, B. F.

MEDFORD—Barrows & Gretchell

Dwyer, Michael F.

Gibson, William

Mara, Michael M.

Page & Curtin

MELROSE—Allmon Bros.

†Brock Bros., 538 Main

†Burnett, A. J.

MacNeil, John J.

†Melrose Plumbing & Heating Co.

MELROSE HIGHLANDS—Barnes, Chas. & Co.

†Curry, R. H.

Maxwell, Perkins & Co.

MERRIMAC—Howe, N. L.

Muldoon, John E.

METHUEN—Tetler, James R.

Turner, A. U.

MIDDLEBORO—Baxter, M. W.

†Donae, J. & G. E.

†Walker, A. W.

MILFORD—†Cooney & Higgiston

Norris, Staples & Gould

Pratt Bros.

Willard, Hy.

MILLBURY—Mulhane, J. J. & Co.**MONSON**—Leary, C. J.

Lyons, S. W. & Co.

NAHANT—Reardon, Timothy B.

Shaughnessy, Jas. G.

NANTUCKET—Ayers, Jno. K.

†Deacon, James Y.

Marden, Willard B.

Smith, Alfred E.

NATICK—Flske & Co.
Fittz & Barker
Morrill, Harry C.

NEEDHAM—Gegenheimer, John

NEW BEDFORD—Allen, G. C., 222 Cottage
Allen, Geo. J. & Co., 14 N 6th
Bolduc, Azarie, 1050 Acushnet av
Chace, T. W. & Co.
Clark, Samuel R.
Coggeshall, Maxfield & Co., 26 N 2d
†Cunningham, J. P., 195 Mill
Davis, William A.
†Ellott, John D., 106 4th
†Gifford, T. J. & Co., 650 Cottage
Green & Marshall, 126 Acushnet av
Gregory, Edw. H., 878 S Water
Gregory Plumbing Co.
Gurl, Henry J., 903 County
Hamel, Flavien, 915 Acushnet
Hargraves, J. P.
Hatch, Geo. E., 250 Purchase
Hayden, Wm. G., 185 Acushnet av
†Hellyer, J. G., 573 Purchase
Higgins, Edw. O., 361 North
Hirst, Eben P.
Knowles, A., 635 Purchase
†Lowe, S. C. Supply Co., 87 Union
†McAlpine, Allan, 133 Ashland
McGoff, J. E., 339 Sawyer
Mahoney, Jno. N., 959 County
O'Neil, John V., 705 S Water
Penney, Edw. F., 266 County
Perra, Jno., 594 Purchase
Reynolds, H. C., 157 Grinnell
Rielly, J. P., 46 Linden
Rickctson, Orrin, 47 Delano
Ryan, Jno. H., 563 Cottage
†Sherman, Jas. H., 54 Union
Thatcher, Thomas N.
†Wood, Brightman & Co., 53 N Water

NEWBURYPORT—Bradford, Pearl S.
Creeden Bros.
Gooch, George
Grover, Frank
White, Geo.

NEWTON—Gallagher, Henry P.
†Hewitt & Thomas
Ober, F. A. Plumbing Co.
Quinan, John F.
Walker, P. E. & Co.
Walcott, Walter B.

NEWTON CENTER—Furden, Daniel J.
Sullivan, Jas. H.
†Thompson, G. W.

NEWTON HIGHLANDS—†Kleser, C. D.

NEWTON LOWER FALLS—Gammons, L. A.

NEWTON UPPER FALLS—†Trowbridge & Es-
tebrook

NEWTONVILLE—Allen, Nath'l L.
Doyle & Murray
Gately, Thos. F.
Kleser, Charles
†Thompson, George E.

NORTH ABINGTON—Davidson, R. I.
Monehan & Donald

NORTH ADAMS—Ford, A. T. Plumbing Co.
†Hunter, A. W., 12 Bank
†Lucey Plumbing Co., 34 Holden
†McCraw & Henry
Scully, P. J.
Secor, F. A.
†Stewart, E. C., 40 Jackson
†Tower & Porter, 34 Eagle

NORTHAMPTON—†Brewster, H. N. & Co., 2
South
Brownell & Dickinson
Halford, W. E.
†Lee, N. H., 40 Main
O'Connor & Hebert
O'Connor & McGrath
†Riley, W. H. & Co., 193 Main
†Shumway & Riley
Smth, Clinton F.
Thompson, F. B., 34 Bates

NORTH ANDOVER—Donahue, Michael E.
Letch, J. W.

NORTH ATTLEBORO—†Hall, W. M.
Turner, J. W.

NORTH BROOKFIELD—†Deyo, Charles H.

NORTH CAMBRIDGE—(See Cambridge)

NORTH EASTON—†Kelley, E. E.
Lynch & Bourdeau

NORWOOD—Colburn, F. E.
Foreman, William
Huntoon & Co.
Kuld, Wm. H.
Schell, W. A.
Shannon, Joan A.

ORANGE—†Hill, G. L.
†Train, E. W. & Co.

OXFORD—White, L. & Son

PALMER—Lyons, W. & Co.

PEABODY—Butman, J. E. & Co.
Cawley, Henry M.
Coombs, E. W.
Kelley, E. G.
Lorrd, Daniel B.
Lynch, Michael E.

PITTSFIELD—Backus', W. G. Sons, 4 Bank
row
Bidwell & Bovett
†Bovett, D. W., 11 Melville
Cahill & Smith
Condron, Michael H.
Doran, Henry L.
†Hickey & Farrell, 70 Columbus av
Maloy, Edw'd J.
†Noble, Johnson, Milne & Co., 35 Fenn
†O'Connell, J. P. Plumbing Co.
†Robbins, Gamwell & Co.
Sears, J. H. & Son

PLYMOUTH—†Bailey, H. P. & Co.
†Harris, C. T. & Son
†Hathaway & Sampson
†Holmes, Chas. T.

PROVINCETOWN—Watson, Geo. W.

QUINCY—†Bates, G. B. Heating & Plumbing
Bradford, Wm. A. Co., 22 Saville
Corbett, M. F.
Fratus, Joseph
Fratus, J. L. & Co., 213 Hancock
Hirtle, S. L.
Kenleley, J. E. & Co.
McCurdy, D. J. S.
Perry, Frank J.
Sanborn & Darnon, 117 Hancock
Stephenson, A. E.

RANDOLPH—McDonald, J. B.
O'Brien, R. E.
Prest, John A.

READING—Austin, Henry K.
†Fife, T. C.

REVERE—Fraser Bros.
Herty, D. J.
Hurley, John J.
McKeen, Isaac
Mulligan, Jas. P.
Wills, William J.

ROCKLAND—Burgess, C. W.
Byrnes, R. P.
Gutterson, E. J. & Son
Hall & Torrey
Littlefield, John F.

ROCKPORT—†Smith, L. E.
†Thurston & Hale

ROWLEY—Collman, E. A.

SALEM—†Cabeen, John F., 295 Essex
Dockham, R. E.
Driscoll & Co.
Gould, Jas. N.
Herrick, F. W., 34 Norman
Joyce, W. M.
Norton, Geo.
Shaughnessy & Griffin
Sweeney, P. H., 82 Boston
†Wendell, F. A. Plumbing & Heating Co.

SOMERVILLE—Armstrong Bros., 106 Perkins
Bennett, F. W., 4 Webster av
Brown & Hildred
Burdell, John E.
Cahalan, O. W., 326 B'way
Campbell, Herbert E.
Columbus, L. G. & Co.
Connell, E., 148 Pearl
†Covell, H. W., 140 Perkins
Davlin, J. F., 10 Webster av
Doe, R. W., 351 Medford
Durrell, J. A., 309 Broadway
Earle & Lewis
Fisher, John J.
Hanson, Wm. J., 297 Somerville av
†Holmes, Wm. B., 317 B'way
Hunnewell, C. H. M.
Hunt, Edgar O.
Illiffe, Daniel
Johnson, F. O., 368 Medford
Lawrence Bros.
Maynard, Geo. H., 166 School
Moors, Thos. H.
Naughton, Thomas H., 302 Somerville av
Proctor, Lucy E.
Ryan, Edw'd T.
Salt, Algernon E.
Sewell, Walter H.
Short, M. C., 18 Holland, W. S.
Smith, Anthony J.
Stack, S. W. & Son
Young, Wm. P.

SOUTH BRAintree—Lynch & Bourbeau
†Rogers, O. M.

SOUTHBRIDGE—Oldham & Ranahan Co.
†Winter, Geo. C.

SOUTH FRAMINGHAM—Bollig, F. E.
Scholl, George

Sheldon, Jas.
Welch, Jas. P.

SOUTH HADLEY FALLS—Leahy, John L.
Moriarity Bros.

SOUTH WEYMOUTH—Loud, M. R. & Co.
Marshall, George

SPENCER—†Marsh, G. H.
Paul, John
†Pease, A. G. & Co.

SPRINGFIELD—Atwater, E. C. & Co., 21
Bacon, Benj. G., 18 Walnut Taylor
Bates, E. G.
†Beebe, N. S., 17 Florida
Bennett, Lewis J.
Blood, Lucius M., 198 Main
Brosman & Hart
†Casey, D. D., 217 Main
Clark, Leonard & Son, 104 State
†Clark, Simpson, 157 State
†Cox, John D., 33 E Court
†Cotter, J. J. Plumbing Co.
Curtis, Howard L., 17 Princeton
†Donahue Bros., 9 Pynchon
Dunlap, Loyal W., 89 Cedar
†Eaton, William T., 141 Main, I. O.
Harrington, Daniel J.
Harrington, Michael J., 543 Main
†Hawes & Gray, 37 Dwight
Healy, Jno. H., 15 Elm
†Hyland, Wm. J., 75 Dwight
Kennedy, John W., 59 Ashley
Keough, M. J., 202 Chestnut
Kilgour, Jas. & Co.
McNerney, Stephen M.
Marvin, N. E., 67 Main
Montague, Dwight Billings, 278 Main
Moreton, R. J., 27 Dwight
Moore, G. B., 100 Dwight
Mullen, P. J., 608 Main
†Munsell, E. W. & Co., 597 Main
Neylon Bros., 16 Dwight
†Oliver & Howland Co.
Page, L. P. & Co., 170 Main, I. O.
†Porter, E. M. Co., 30 Dwight
†Pratt, A. J., 792 State
Richmond, R. A. & Son
Ryan, Thos. J., 13 Market
Sagalyn, Abraham
Shine, Jno. I., 385 Bay
Smith, Geo. & Co.
Walls, James F., Jr.
†Whelden & Gallup
†Wilson, Robert, 341 Worthington

†WYCKOFF & LLOYD CO., 35 Ly-
man. (See adv. index, end of book)

STOCKBRIDGE—Parsons, H. B.
†Van Deusen, Mrs. J. M.

STONEHAM—†Houghton, C. W.
O'Donnell, Edward
Stretton & Hutchinson

STOUGHTON—†Burrell, H. G.
†Deacon, Daniel
Paul, Samuel, Jr.
Randall, E. E. & Co.

SWAMPSCOTT—DeLory, Walter A.
Fay, W. L. & Co.
Jenkins, Aug. H.

TAUNTON—Bicknell, F. P., 238 Somerset
Chick, F. H., 64 Cohannet
Cotter, Edw'd J.
†McGlynn, A. & Co., 113 Bay
McMahon, Jas. E., 20 Leonard ct
Monroe Plumbing Co., 26 Cohannet
Nagel, James
O'Hara, Edward & Co.
†Park, Wm. R. & Son, 19 Court
Perra Bros., 24 School
Turner Bros.
†Whitmarsh, Irving F., 64 Weir
Wordell, E. & Son
Wordell Plumbing Co., 46 Weir

TURNERS FALLS—†Starbuck, Geo. & Sons
Ward, M. A.

UXBRIDGE—Conant, E. G. & Co.

WAKEFIELD—Rovering, Chas.
Dearborn, Gilbert K.
Grace, J. Wallace
Hogan, James J.
†Taggart, David, 123 Alblon
†Taylor, G. H., 450 Main

WALNUT HILL—(See Dedham)

WALPOLE—Barrett, Timothy A.
†Spear, H. A., Jr.

WALTHAM—Corning, Nelson
Cullen, T. W. Co.
Gallagher, M. F.
Gibbons, John J.
Hannlff, J. L., 715 Main
†Kirwin, F. H., 586 Main
McDonald, W. L.
Molder, Henry
†Taylor & Percival, 154 Moody

WARE—Dunham, W. S.
 †Harrington, Robert G.
 †Marsh Bros.
 Moriarity, D. J.
 Norton, J. W.
 WAREHAM—Briggs & Jenkins
 Huxtable, John
 WARREN—Maxim, J. W.
 Root, E. W. & Co.
 WATERTOWN—Burke, Jno.
 Keefe, David F.
 McLennau & McElroy
 †Wishart, Thos. B.
 WAVERLY—Burke Bros.
 WEBSTER—†Bates, A. J. & Son
 Patterson, G. J.
 †Rosebrooks & Cummings
 Savery, John H.
 White, A. H.
 WELLESLEY—McFadden, Willard S.
 †Porter, F. H.
 Proctor & Austin
 Schaller, Jos. G.
 WELLESLEY HILLS—Kinlin, Thomas B.
 Sheridan, J. E. & Co.
 WEST ACTON—(See Acton)
 WESTBORO—†Frazer, G. A.
 †Woodman, G. H. & Co.
 WESTFIELD—Abern, Wm. M.
 †Diehl, C. H., 102 West
 †Hood, D. L., 47 Main
 Keefe, L. L., 18 Arnold
 †Moseley, A. C., Pleasant st
 Noble, L. E. & Co., 73 Elm
 †Smith, H. B. Co.
 Woronoco Heating & Plumbing Co.
 WEST GARDNER—(See Garduer)
 WEST MEDFORD—McCarthy, Thos. P.
 Neilson, O. J. C. & Co.
 Palmer, M. W.
 WEST NEWTON—Bryson, Thos. L.
 Burgess, F. T.
 †Carley, C. G.
 †Fiske, A. F. & Co.
 French, W. H.
 Haynes, E. S.
 Priest, J. H.
 Quinn, T. W.
 WEST SPRINGFIELD—Bath, George W.
 Jaques, R. W.
 WEYMOUTH—Bates, Louis F.
 WHITMAN—Goodwin & Co.
 McCallum, Andrew R.
 WILLIAMSTOWN—Locke Bros.
 †Sherman, B. H.
 WINCHENDON—Burt, J. F.
 WINCHESTER—Davidson, G. T. & Co.
 French, C. P.
 †Laraway, Jonas A. & Co.
 †Pratt, Geo. E. & Co., Lyceum bldg.
 WINTHROP—Grimes, Michael
 Kennedy, J. J. & Co.
 †McNeil Bros.
 Richardson, A. W. & Co.
 Rogers, E. F.
 WOBURN—†Parker, Edw. E.
 Shaw & Campbell
 Stretton, Wm. G., 22 Montevale av
 WOLLASTON—(See Quincy)
 WORCESTER—Allen, C. F., 161 Main
 †Braman, Dow & Co.
 Briden, F. J., 40 Waldo
 Burke, Wm. T.
 Byrne, James F.
 †Cahill, Jeremiah T. & Sons, 18 Pleasant
 Campbell, Charles R.
 Crean, John J., S. Harding st
 Cronin & Nagle, 311 Main
 Dowd, Jas. F., 508 Millbury
 Field-Fieller Co., 39 Pearl
 Frazier, John F., 235 Pleasant
 Grunditz & McCarthy
 Gustafson, John, 71 Thomas
 Hagan, Peter J., 2 Elm
 †Harrington, J. W., 30 Southbridge
 †Holmes, M. D. & Son, Salem sq
 Huot, N. P. & Co., 11 Bartlett
 †Jordan, J. W. Co., 44 Southbridge
 †Kendall, O. S. & Son, 564 Main
 Lavin Bros., 29 Thomas
 Lawrence, Wm. H. & Co., 5 Canal
 †Lees, Walter, 638 Southbridge
 McGrath, John J., 97 Foster
 McGuinness, P. F., 35 Thomas
 McLoughlin, M. S. & Co., 1 Green
 McManus, Thomas J., 114 Millbury
 Maher, Michael J., 142 Southbridge
 Maynard, Jno. E., 16 Waldo
 Ostberg, Carl F., 1090 Main
 †Ostberg, Carl Wm., 343 Pleasant
 Putnam, M. M., 39 Maywood
 Reardon, Daniel J.
 Reynolds, Frank P., 672 Southbridge

Ridyard, A. A., 3 Chandler
 Shaughnessy, Henry M. & Co., 15 Austin
 Stowe, Lincoln H., 160½ Chandler
 Sullivan, John, 20 Lincoln sq
 Toner, Wm. H. & Co.
 Tucker, W. F., 64 Pleasant
 Wright, Harry M. & Co.
 Young & MacDonald, 509 Main

MICHIGAN.

ADRIAN—Adrian Gas Co.
 Baier, Jos. A.
 †Clauda & Meyer
 Krapf, Almou S.
 Taylor Bros.
 †Wilcox Hardware Co.
 ALBION—Estow, Jas. C.
 Gale, O. H.
 ALLEGAN—Kirshman & Green
 †Phillips Bros.
 ALMA—Howe, Wm. A.
 Walker, Jesse
 ALPENA—†Campbell, W. H.
 †Eddy Bros.
 Lewis & Broad
 Oliver, Geo. & Co.
 ANN ARBOR—Allmendinger, Alfred H.
 Andres, Samuel C.
 †Hutzel & Co.
 Kenny, J. T.
 Quinlan, J. F.
 †Schneider, C. L.
 Schneider, E. L.
 Schneider, Wm. R.
 †Schuh, J. F.
 Schumacher & Backhaus
 BATTLE CREEK—†Bock, C. F. & Son
 †Galloup, J. O., 41 E. Main
 Greiner, W. T.
 Hanchett, L. J.
 Peterson, Jno. G., 31 Washington av, N.
 Snyder & Schnau
 †Stevens, Bert B.
 Van Buren, H. B.
 BAY CITY—Bay City Plumbing & Heating Co.
 †Finn, Fred'k C.
 Ideal Plumbing Co.
 McIntosh, Geo. D.
 Mann & Ackerman
 Philppen, Geo. E.
 †Smith, T. E., 601 Harrison
 †Sullivan Plumbing & Steam Heating Co.
 †Walther, Adolphus & Sons, 616 N Water
 Whitney, Wm. E., 215 5th av
 BENTON HARBOR—Brammall, Edw.
 English, Israel
 Hall, B. L. Co.
 Hill, Richard
 Kenney, E. A.
 Seel, W. C.
 BIG RAPIDS—Anderson Bros.
 Anderson, Theo.
 CADILLAC—Eagle, E. C.
 Gustafson, John A.
 CALUMET—†Carlton Hardware Co.
 Dunstan, Chester
 †Keckonen Hdw. Co.
 Smith, Jno. F. D.
 CHARLEVOIX—Ackert, Jno. M.
 †Charlevoix Hardware Co.
 †Washburn, O. S. & Son
 CHARLOTTE—Krogman & Krebs
 Munger, J. W. & Son
 Spencer, R. S.
 White, Ray E. & Co.
 CHEBOYGAN—Cueny, J. E. & Bro.
 Peets, Henry
 Post, J. J. Hardware Co.
 CHELSEA—Foster, G. H. & Co.
 Gorton, Henry
 COLDWATER—Cecil, Thomas
 Cogshall, Charles D.
 †Mansell & Kopple
 Sandt, Cudney & Saxon
 DELRAY—Gray & Addy
 DETROIT—Andre, Peter B., 45 Mitchell av
 Badour, C. A., 556 Jefferson av
 Barbier, A. W., 206 Rlopelle
 Barzen, Jos., 236 Clinton av
 Bean & DeVille
 Berry, Franklin, 1276 Fort. W.
 Blackwood, Wm., 1510 Woodward av
 Bliska, Rudolph H., 332 Dix av
 Blum, William T., 672 St. Antoine
 Bolt, William I., 1191 Jefferson av
 Boosey, Norman, 540 Greenwood av
 †Bowes, Francis J., 305 St. Aubin av
 Bresnahan, J. A., 683 Michigan av
 Brown, Howard, 795 Fort. W.
 Burau, Paul, 690 Gratiot av
 Burton, Wm. G., 339 Kercheval av
 †Cameron, James & Son, 324 Grand River av
 Cameron, John, 76 Bates
 Chalmers, John C., 405 Merrick av
 Chateau Bros., 732 Rivard
 †Colombo, Chas., 237 Grlswood st
 Crosson, John, 924 Grand River av
 †Crumley, James H., 284 Woodward av
 Cushing Bros., 321 Fischer av
 Damerow, Herman O., 400 Hendricks
 D'Hont, Victor, 23 Maple
 †Dickson, Samuel, 78 Congress, E.
 Downey, John A., 206 Trumbull av
 Drury, John W., 791 3d av
 Dullea, Chas., 93 Bagley av
 Duross & Weher, 1521 Jefferson av
 Dust, Wm. T. Co., 32 Macomb
 English, Norman
 Ennis, J. H., 35 Clifford
 Ernst Bros., 414 Woodward av
 Fischer & Kayser, 25 Jeff'n av
 Geisler, Frank H., 1464 Fort. W.
 Gibson, Robert J., 274 Watson
 Goldberg, Jacob H. & Co., 236 Gratiot av
 Gourlay, Wm., Jr., 1475 Jefferson av
 Graham, Samuel, Jr., 801 Mich. av
 Gray & Addy, 2135 River
 Gruler, Daniel
 Guiney, Benjamin, 137 Larned, W
 Hafke, Max, 971 Gratiot av
 †Hamilton, John H., 71 Charlotte av
 †Harrigan & Reid, 70 State
 Hartwell & MacPherson
 Hassig, Arnold & Bro., 222 Jefferson av
 Hawkins, George H.
 Helm, Otto H., 632 Monroe av
 Hund & Powierski, 844 Russell
 Hunt & Roehrig, 622 Gratiot av
 Hurley, Thos. J., 576 Dix av
 Hurst, Richard T., 104 Noble
 Hsley, Chas. W., 314 Canfield av, w.
 †Irvine, Wm. G., 530 Monroe av
 †Irvine & Waltensperger, 1167 Jefferson av
 Jolly, Geo. J., 634 Junction av
 Jones, John F., 1261 18th
 Jones, John H., Jr., 241 24th
 Karie, Donat Co. (Ltd.), 448 Gratiot av
 Kenealy, John, Jr., 2 Harrison av
 Kennedy, J. H., 217 Jefferson av
 Kenney, Frank M., 940 Wabash av
 Kenney & Calnon
 Kinche, Philip, 241 Gratiot av
 Klein, Chas., 312 Woodward av
 Klein, M. & Co.
 Kramer, John G., 171 Mouroe av
 †Lane Bros., 232 Mich. av
 Larkins, Thos. D., 150 Canfield av, E.
 Lee, Joseph E., 374 Woodward av
 Lewis, William & Co., Erskine c Beaubien
 †Lichtenberg, Phil. H., 387 Brush
 Look, Herman, 185 Macomb
 McEuen, Peter, 607 Dix av
 †McFadden, Wm., 304 Woodward av
 McGinnis & Plath, 205 Clifford
 McGrath Bros.
 McHugh, Joseph A., 224 26th
 McKerchey, J. M., 1153 Mich. av.
 McLaughlin, John F., 305 Canfield av, W.
 †McPherson & Brokaw, 993 Wabash av
 MacDonald, Hugh Co., 79 Park Place, W.
 MacLeod & Plath
 †Mahoney, J. C., 775 14th av
 Mahoney, Peter, 282 Mich. av
 Martyn, John, 1365 Michigan av
 Martz, F. J. & Co., 490 Gratiot av

When writing to firms
 whose names appear
 in this book please
 mention

**HENDRICKS'
 COMMERCIAL
 REGISTER.**

May & Seiler
 Mead, L. C., 274 Selden av
 Merbach, William G., 17 John R.
 Miller, Chas. H., 114 Larued, W.
 Mohr, Frank, 376 Dix av
 †Morgan, Sherman H., 273 Jefferson av
 †Mouat, John D. & Co., 50 Porter
 Nagel, Herman T., 1226 Gratiot av
 Nagle, Henry, 198 Mich. av
 Noetzel & O'Connor
 †Norris & Miller, 232 Randolph
 Oakes, Ben., 699 3d
 O'Connor Bros., 15 Jefferson av
 O'Connor Plumbing Co., 40 Congress, W.
 Oldfield, Arthur J., 114 Myrtle
 O'Neill, George M., 61 Duffield
 Padelt, Oscar A., 629 Parker av
 †Partlan, James W., 56 Congress, E.
 Peckham, Ralph R., 134 Stanton av
 Pfromm & Warren, 1192 Mich. av
 Pickard Hardware Co., 483 Grand River av
 Quigley, J. H., 184 Jos Campau av
 Reed, Chas. E., 239 Theodore
 Rider, Edw. M., 10 Elizabeth, W.
 †Rider, F. W. & Co., 231 Griswold
 Roach & Hughes, 117 3d av
 †Rodger, D. T., 267 Grand River av
 Roney & L'Herauld, 836 Fort, W.
 Roraback, Edwin C., 253 Harmon av
 Ross & Wood, 176 Myrtle
 Rutson, Alfred & Co., 124 St. Aubin av
 Ryan, Edward J., 134 Grand River av
 Schroeder & Gray, 164 Grandy av
 Schultz, Albert W. & Co., 815 Gratiot av
 Schwarz Bros., 1282 Gratiot av
 Seater, Jas., 750 Brooklyn av
 Shapero Bros., 253 Gratiot av
 Shefferly, Frank A., 901 Mt. Elliott av
 Sherwood, Fred C.
 Simons & Peckham
 Simpson, John W., w. s. Newport av, n. of
 Jefferson av. F.
 Snyder, Arthur H., 367 Sheridan av
 Solomon, Abraham
 Solomon, Wm. F., 766 Oakland av
 Springer & Cook, 275 St. Antoine
 Steiner, Edw. P., 351 Fort, E.
 Steiner, P. C. & Son, 104 Congress, E.
 Stephen & Mason, 572 Baker
 Stickels, C. A., 790 Lawton av
 Stone Bros., 1476 Woodward av
 Streufert, Henry O., 703 Mich. av.
 Surtman, John N., 347 Wabash av
 Teagan, Wm. C.
 †Tietze, Christian P., 558 Mack av
 Titus, Otis M., 821 St. Antoine
 Venn, Ernest, 777 Woodward av
 Vorlauf, Edw. F., 191 Macomh
 Walsh, Frank, 196 14th av
 Walsh, Richard & Sons, 61 Wayne
 Waltensperger, Alex. I.
 Watkins & Radcliffe, 717 Woodward av
 Wenzel, Ernst, 881 Gratiot av
 †Wenzel, Paul, 1176 Gratiot av
 Wesselhoff, Chas., 1637 Gratiot av
 Wheeler, Chas. C., 44 Shiley
 White & Fisher, 205 Mich. av
 Winter, Wm. W., 257 Milwaukee av, e.
 Wouters, Henry J., 598 Chene
 Wrohel & Buchkowski, 773 Riopelle
 Wurm, Otto A., 83 Randolph
 Youngblood, Peter J., 479 Gratiot av
 †Zerga, Jacob, 78 Larned, W.
DOWAGIAC—Bishop, G. E. Hardware Co.
 Schmitt Bros.
EATON RAPIDS—Minne & Bromeling
ELK RAPIDS—†Elk Rapids Iron Co.
ESCANABA—†Hogan, George
 Johnson, Carl A.
 Norton Bros.
 Stille & Puissant
FENTON—Atchinson, J. A.
 Curry, L. V.
 Gallaway, Fred
 Hoffman, F. J.
FLINT—†Aigoe, J. Frank
 Henderson, Thos. J., Jr.
 Holmes, George H.
 †Hubbard, George W. & Sons
 Hubbard & Henderson
 McQuigg, Mrs. George L.
 †Stern, Edwin Co.
GLADSTONE—Krueger & Goodrich
GRAND HAVEN—Nordhouse, Louis & Co.
 †O'Connell, James
GRAND RAPIDS—Armstrong & Lemoine
 Bouma, H'y, 64 Packard
 Buob, Wm., 490 S Division
 Cook, G. E., 278 5th st
 Decker, W. A., 132 Canal & E Bridge
 Denison & Dykema, 666 Wealthy av
 Dolan, B. J., 27 Crescent av
 Heth & Hammer, 774 S Division
 Hunt & Youngs, 285 Jefferson av

Inglis Bros.
 Lang, Jos. B., 512 S Division
 †Macaulay Bros., 157 N Ottawa
 Manns, Wm.
 Mercer, Walter F.
 Miller, John, 210 E Bridge
 †Muir Plumbing Co., 240 E Fulton
 Norman Bros.
 Pross, Martin, 215 Worden
 Pulte Plumbing & Heating Co.
 Quaiu & Swart, 53 W Bridge
 Richards, G. A.
 Robertson, Wm., 27 Fountain
 Scheuffer, C. A., 46 E Bridge
 †Shriver, Fred'k, Sr., 260 Lyon
 †Sproul & McGurkin, 39 S Division
 Struhs, Frank, 126 Sibley
 Thompson & Butler, 155 Monroe
 Van der Meer, J. J., 503 S Division
 †Van Rossum Bros., 505 N Ottawa
 †Weatherly Co.
GREENVILLE—Ockerman, W. M.
 Sprague, Perry R. & Co.
 Temmink, J. H. & Co.
HANCOCK—Beakley, J. H.
 Blackwood, Wm.
 †Funkey, W. & C.
 Hamilton, Edw. A.
 Sullivan, James
HARBOR SPRINGS—Taylor, Charles W.
 Walrond & Friend
HASTINGS—†Goodyear Bros.
HILLSDALE—†Gardner, George F.
 Hillsdale Hardware Co.
 Wagon & Son
HOLLAND—Fritsch & Thompson
 Kerkhof Co. (The)
 Standart, E. B.
 Van Landegend, G. A.
 Van Landegend, Tyler
 Van Oort, J. B. & Sons
HOLLY—Copp, J. W.
HOUGHTON—†McDougall, Alex., Sr.
 †Portage Lake Hardware Co.
 Steller, Theo. A.
 †Stoyle, Frederick
HOWELL—†Benedict & Ratz
 †Jewitt, C. G.
 Schroeder, F. P.
HUDSON—Armstrong & Munger
IONIA—†Breckon & Gable
IRON MOUNTAIN—†Firme, Theo.
 Overmeyer, Jno.
IRONWOOD—†Dear, Ernest
 Evans, Wm.
 Williams, E. B.
ISHPEMING—Barney, Richard
 Blackney, Jas. A. & Co.
 Haggerty, Charles
 †Lake Superior Steam Heating Co.
 Zoherlein, F. J.
JACKSON—†Avery-Thoman Plumbing Co.
 Dowsett, W. J. Co.
 East End Plumbing Co.
 †Mahoney, Jeremiah, 102 W Main
 Millard, H. S. & Co.
 Murray, J. E. & Co.
 Richards, Chas. H.
 Smith Bros.
 Walker, M. & Son
 Wilber, Louis H.
 †Wirtz, W. S.
KALAMAZOO—Brennan, Wm. H.
 Brenner, Richard R.
 Citizens' Plumbing & Heating Co.
 †De Kam, Jacob, 145 S Burdick
 Hoon, W. C.
 Model Plumbing Co.
 †Radiker Plumbing Co., 110 Portage
 Rix, Wilder P.
 Schnur, Frank P.
 Wall, James C.
 †Wheeler & Pitkin, 223 N Burdick
 Young & Kelly
LAKE LINDEN—Bittich, C. F.
LANSING—†Armstrong, W. W., 120 Michigan
 Cook, Ray M. (North) av, E.
 Fitzgerald, John E.
 †Fleming, James, 309 Washington, S.
 †Gaylord, R. S., 109 Allegan, E.
 †Gordon Plumbing Co., 208 Wash'n av, N
 †Gross, J. G., 309 Washington av, N.
 Shields & Leadley, 308 Wash'n av, N
 †Toolan, J., 330 Wash'n av, S
 Toolan, Peter
LAPPEER—Bennett & Stickney
LAURITUM—Boone, Wm. H.
 Jutrasch, Frank
 †Laurium Hardware Co.
 Peninsula Heating & Plumbing Co.
LUDINGTON—†Caswell, E. B.
 Ludington Plumbing Co.

Pollard, A.
 Thielman & Bigelow
MANISTEE—Field, F. W.
 †Lloyd & Smith
 Rosenfeld, Otto
MANISTIQUE—Barton Bros.
MARINE CITY—De Lisle, Frank
 †Zimmerman Bros.
MARQUETTE—Hopkins, P. L.
 †Sink, E. J.
 Smith, Ed.
 Stensrud, Herman
MARSHALL—Bentley, R. A.
MENOMINEE—Robinson, F. & Co.
 Woessner, A. J. & Co.
MIDLAND—Clason, Ernest H.
MONROE—Goebel, Adam H.
MOUNT CLEMENS—Burk, Edw'd
 Ferrin, Chas. S.
 Hatzenbuehler & Cudworth
 Miller, F. W.
 †Ulrich, R. C.
MOUNT PLEASANT—Coddington, H. W.
 Randall, J. Frank
 Riegle & Hight
MUNISING—Thoenen, R. H.
MUSKEGON—Beffinger & Henderson
 Coyne, James
 †Howden, John J. Co.
 McCullom, George
 McFaddon, Thos. W. & Co.
NEGAUNEE—Mertin, Fred. J.
 Simcox, T. W.
NILES—Flynn, Thos.
 Hamilton, Louis S.
 Hildehille, George D.
 Power, E. H.
 Snyder, James H.
NORTHVILLE—†Carpenter & Huff
 Elliott, Jasper N.
OWOSSO—Eureka Heating & Plumbing Co.
 Hollis, A. F.
 Kelly & Douglas
 Robbins, Henry
PAW PAW—Dunbar, Harry
 Waters, H. C. & Co.
PETOSKEY—Bracket Hardware Co.
 Bump & McCabe
 Ditto, Chas. J.
 †Middledich, Philip
 †Raynolds, Chas. A.
PONTIAC—Beattie & Tobin
 Burlingham, S. H.
 Cooper, Jos.
 Goebel, Frank J.
 †Hallett, E. J.
 Holser, L. J.
 Todd, Robert H.
PORT HURON—Bonner, Hugh
 Buckeridge, Hial, Jr.
 Bushy, Charles E.
 Dole, George M.
 Drought & Co.
 Gibson, Wm.
 Luz, Frank A. & Co.
 †Richardson, Baker & Co.
 Watson Bros.
PORTLAND—†Culver, W. P.
 Ferguson, R. L.
QUINCY—Bishop, I. L.
 Ganong Plumbing Co.
RED JACKET—(See Calumet)
REED CITY—†Witherell, M. N. & Co.
ROMEO—McDowell, William C.
SAGINAW—Ahern, John, 123 N Jefferson, E S
 Bridgeman Plumbing Co.
 Brown Bros., 222 N Hamilton
 Brown & McKenzle
 Canan, C. H.
 Connon, James, 402 Germania av, E S
 Dingman, C. H. & Co.
 Ford, T. H., 225 N Niagara, W S
 Johnson, John H. & Co., 215 S Wash'n av
 Merrill & Kren
 Rabe, Jos. B.
 Richter, W. C., 218 S Hamilton
 †Scott, E. E., 123 N Franklin, E S
 Stein & Block
 Tauh, Herman L., 1151 Genesee av
ST. CLAIR—Hart, E. S. & Co.
ST. JOHNS—Corbit, J. H.
 †Fowler & Ball
 †Spanning & Co.
ST. JOSEPH—City Plumbing Co.
 Duncan, Jno. F.
 †Reich, Adolph
SAULT SAINT MARIE—Barton Bros.
 Beckingham, Charles
 Castel, David & Son
 †Lozan, T. E.
 McGuire, Peter
 Partridge, C. T.
 †Soo Hardware Co.

SOUTH HAVEN—McKeough, Daniel P.
 STURGIS—Feek, H. H.
 TECUMSEH—Ingersoll, J. M.
 †Satterthwaite Bros.
 Whitenack, D. L. & Co.
 THREE RIVERS—†Griffith, John
 Waltz, Frank P.
 TRAVERSE CITY—Arms & Cole
 Mercer, R. J. & Co.
 VASSAR—Brett, Chas. N.
 †Sanford, R. M.
 WYANDOTTE—Des Roacher, Alex
 †Gartner Hardware Co.
 Haas, Albert C.
 Karth, Frank A.
 Lanzel, Edw'd J.
 Ocobock, J. C.
 YPSILANTI—Burke Bros.
 Emerick, Eugene K.
 Hankinson, O. A.
 †Harding & Shaffer
 †Webb, Wm.
 †Willis, M. A.

MINNESOTA.

AITKIN—Healy Bros.
 ALBERT LEA—†Gessler Plbg. & Heating Co.
 Luce & Beckford Co.
 ALEXANDRIA—†Renner, J. M.
 AUSTIN—Bennett, John
 Carlson, C. Arthur
 BEMEDJI—Jerrard Plumbing Co.
 BLUE EARTH—Young, W. E.
 BRAINERD—Murphy, F. J.
 Sherlund, L. W.
 CLOQUET—†Fish, L. A. & Co.
 CROOKSTON—†Crookston Plumbing Co.
 DULUTH—†American Heating Co., 228 W
 †Black, D. R. Co., 325 W 1st Michigan
 Crosby, M. F., 5427 Oneida
 Ericksou, Gus., 1925 W Michigan
 †Farrell, E. S. Co., 120 E Superior
 Gazette, H., 321 E Superior
 †Harker, A. J., 407 E 4th
 Hoopes, W. W.
 Hultquist, John, 25 N 5th av, W.
 Ittis, Chas., 422 N Central av
 McDougall & Pastoret
 McGurkin Plumbing & Heating Co.
 †Marquardt, W. & Co., 1908 W Superior
 †Moore, R. Plumbing Co., 124 N 58th av, W.
 Munroe, Daniel, 727 E Superior
 Shanahan, M. T. & Co., 123 N Central av
 Stack Bros., 117 W 1st
 †Waugh, Kealy & Co., 321 W 1st av
 West End Plumbing Co.
 †Zeuth Plumbing Co., 13 N 1st av, E
 EVELETH—Cherne, J. S. & Co.
 FAIRMONT—†Houghtaling & Coult
 FARIBAULT—Gallagher, P. J.
 Hatch, A. M.
 FERGUS FALLS—Frankovitz Hardware Co.
 HASTINGS—Devany, J. A.
 HIBBING—Clark, P. E.
 Pastoret, M.
 Schirmer Bros.
 HUTCHISON—Hughes, James F.
 LAKE CITY—Gludt, J. H.
 LITTLE FALLS—†Jones, W. B.
 Schroeder, George
 LUYERNE—Greene, W. E. E.
 Jones, W. A.
 MANKATO—Brugger, L. M.
 McGraw, P. H.
 McLaurin & Northrop
 Masters, Charles M.
 Murray, Martin
 †Wickersham, E. C.
 MINNEAPOLIS—†Archambo Heating Co., 317
 5th av. S.

Barbery & Fritz, 827 20th av, N.
 Bayley, W. S., 3037 Nicolet av
 Bjorkman Bros., 712 S 10th
 Blethen, O. A. & Co., 250 Plymouth av
 Cody Plumbing Co., 109 Central av
 Colliton, E. A., 124 E Lake
 Colliton, J. W., 3033 Nicollet av
 Dulkin, Moses, 709 N 5th
 Fay, J. C., 707 Hennepin av
 Fischer, Henry, 324 20th av, N.
 George, Arthur A., 506 W Lake
 Goetzenberger, Edw., 504 W Lake
 Harper & Watson, 1515 Hennepin av
 Harvey, Alfred, 2724 2d av, S.
 Harvey, S. B. Co., 3003 Hennepin av
 Hineine & Co., 211 S 5th
 Hobart & Willis, 826 Hennepin av
 Hoffenbroedell, L. V., 2328 Central av
 Hoy, P. H., 424 Central av
 †Hunter, Samuel, Jr., 204 S 4th
 Ireland-Simmons Co., 518 2d av, S

Jacobsen, J. M., 314 Cedar av
 Johnson, O. G., 1308 Franklin av, E
 †Kelly, G. A., 256 2d av, S.
 †Kelly, H. & Co., 229 S 3d
 †Kelly & Lamb Heating & Plumbing Co.,
 311 3d av, S.
 Lang, F., Jr., 402 Plymouth av
 Lange, F. T. & Co., 623 3d av, S
 Larson, P. L., 726 11th av, S.
 Lofstedt & Johnson, 508 10th av, S
 Lussier, Speakman & Co., 1127 3d av, S
 McGuire, J. H., 1421 S E 4th
 McGuire & Sons, 10 University av, S E
 McInerney & Burke, 215 S 7th
 †Magulre, T. M., 308 E Lake
 Minn. Plumbing Co., 1420 Nicollet av
 Monahan, James J., 704 W Lake
 Morrison, J. T., 19 E 26th
 Neary & Hughes, 104 Western av
 Nelson, B. H., 734 E Lake
 Nelson, Wm. M., 2924 11th av, S
 †O'Neil, M. J., 814 Nicollet av
 O'Reilly Plumbing Co., 1806 Taylor
 Peterson, E. G., 1212 3d av, S
 †Porter, W. F. & Co., 521 2d av, S
 Rathbun, E. A., 2735 W 43d
 Rose, William
 Sahler & Maurud, 313 Washington av, N
 Schuler & Nary, 18 University av, S E
 Scott, A. W., 217 S 6th
 Shaw & Co., 1210 Wash'n av, S
 Sherin, Miles, 240 2d av, S.
 †Simpson, R. & Co., 604 Hennepin av
 Smith, J. N. & Co., 613 1st av, S
 Stepka, Frank, 302½ Central av
 Sweigert, J. P. & Co., 1806 Wash. av, N
 Thompson & O'Keefe, 621 Monroe
 †Tunstead Heating Co., 223 S 6th
 Valencour, H. J. & Co., 24 University av.
 Whitten & Hanley, 108 W Lake N. E.
 †Wilkins, Chas. & Co., 526 2d av, S.
 Worthingham & Co., 212 S 4th
 Yost, F. J. & Co., 409 20th av, N
 †Zimmerman, A. & Co., 2108 4th av, S

MOORHEAD—McMillin & Welngarder
 Schwartz, Frank

NEW ULM—Grebe & Emmerich
 Stoll, Chas. & Sous

NORTHFIELD—Larsen, Thos.
 Sitz, Jacob
 Thomas, C. E.

OWATONNA—†Cleifton Plumbing & Heating Co.
 Herold & Schoen
 †Thompson & Roell Hardware Co.
 Thon, J. P.

PIPESTONE—Reader Bros.
 RED WING—Doyle, James H.
 Hayes, James

ROCHESTER—Baker & Hanson
 Adler & Vihstadt
 Maas & McAndrews
 Sehl, Fred.

†Stehbins & Co.
 ST. CLOUD—Bisenius, J. P.
 Kneip, E. A.

ST. PAUL—†Adamson, J. P., 360 Jackson
 Bailey, J. F., 388 Jackson
 Baird & Sudheimer, 301 Rice
 †Beier Bros., 370 Jackson
 Bergstrom Bros., 851 Payne av
 †Black, Allan Co., 144 E 6th
 Bowe, H. W., 376 Dayton av
 Brooks & Dougherty, 776 Wabasha
 Cardinal, B. E., 473 B'way
 Chenery, R. J., 647 Selby av
 Clark, T. J., 416 N Prior av
 Connolly & Gehan, 324 Waubasha
 Conroy, C. J., 415 Cedar
 †Davis, Thos. & Sons, 238 W 3d
 Delaney & Gerber, 555 W University av
 Delaney, E. J., 950 Raymond av
 Doyle Bros., 518 St. Peter
 Doyle, E. T., 52 W 4th
 Doyle, J. H. & Co., 263 W 7th
 Dunnigan, J. J., 136 8th
 †Dwyer Plumbing & Heating Co., 108 W 3d
 Gerlach, J. F., 500 Rice
 †Hankee & Eha, 105 E 4th
 Healey Plumbing & Heating Co., 277 W 3d
 Helle, B. F., 591 Wabasha
 Hill, S. A., 254 W 7th
 †Holt & Dahlby, 820 Payne av
 Hurley & Co., 392 Selby av
 Hyland, J. D., 106 E 4th
 †Kees, George A. Domestic Engineering Co.,
 Kenney, T. J., 490 E 7th 260 E 7th

Klmmel & Sauter, 1019 W 7th
 Kling, T. E. & Sons, 507 Selby av
 Krause, H. S. & Co., 159 W 5th
 Lyon, A. H., 349 W 7th
 †McQuillan Bros., 389 Selby av
 McQuillan, J. F., 672 Grand av

Martln, J. W., 1010 Edgerton
 Miller, W. F., 484 Mississlppi
 †Morton, Geo. R., 100 W 3d
 Nienaber, L. F., 283 E 7th
 †O'Neil, M. J., 58 E 6th
 Olsen, Nels, 936 Forest
 Peter, L. H., 59 E 5th
 Pfaff, W. A. E., 135 Concord
 Pothan, F. H., 369 W University av
 †Prendergast Bros., 20 E 6th
 Purcell, Charles, 447 W University av
 Regelsberger, Geo. & Co., 180 W 7th
 Sauber, M., 169 S Wabasha
 Schiller, C. S., 103 E 5th
 Schnaith Bros., 439 E 7th
 Shea, John H., 739 Grand av
 Sniker, Johu J., 296 Marla av
 †Stevens, D. W. & Co., 167 W 3d
 Webber, C. A., 248 W 3d
 Zeimet, J. G., 669 Selby av

ST. PETER—Blomberg & Walters
 †Evenson Bros.
 Potts, Al. J.

SAUK CENTER—†Hillerud, G. & Co.

STILLWATER—Hensch, Wm. J.
 †Peaslee, M. M.

TWO HARBORS—†Erickson, L. R.
 Haughsten, C.
 Johnson, David

VIRGINIA—Thayer, A. F.
 WABASHA—Lewis, Marshall G.

WILLMAR—Benson, Ben.
 Neuberger, Conrad E.
 †Wlggins, J. H. Co.

WINONA—Brown, Frank J.
 †Cunningham, J. V.
 †Green, Thomas J.
 Hengle, H. A.
 Sherman, John & Sons
 Skelten & Witt
 †Toye, Michael
 †Winono Heating & Ventilating Co.

MISSISSIPPI.

ABERDEEN—Allen, B. S.
 Jacobs, F. M.
 Warburton, T. R.

BILOXI—Laska, J. O.
 Young, J. R.

CANTON—Garrett, L. M., Jr.
 COLUMBUS—Cady, T. J.

CORINTH—Corinth Plumbing Co.
 Stanton, B. P.

GREENVILLE—†Butler, F. J.
 Goldstein, Edgar L.

GREENWOOD—Phillips, T. J.
 GRENADA—Perry-Jones Co.

GULFPORT—Cooper Bros.
 Gulfport Plumbing & Tin Shop
 Lehasson, Aug.

HATTIESBURG—Kearney, J. L.
 Wilby, Alford

HOLLY SPRINGS—Bryant, H. N.
 Rather, R. O.

JACKSON—Gaston, H. D.
 Luderbach Plumbing Co.

Peters Bros.
 Simpson, D. T. & Co.
 Wylly Plumbing Co.

LAUREL—Carnes, S. A.
 MAGNOLIA—Kramer, Xavier A.

MERIDIAN—Riiggs, D. D. Plumbing Co.
 Meridian Plumbing Co.

Rea, A. S.
 Splinks & McPhillimy

NATCHEZ—Mack & Holmes
 Mulvihill, P. W.

Smyth, W. E.
 VICKSBURG—Andress, J. L.

†Bruser, W. H.
 Mulligan, J. J.
 Smith, J. B.

Waggner Plumbing Co.
 WATERVALLEY—Miller, J. K.

WEST POINT—Jacobs, F. M.
 Jordan, C. R.

WINONA—Cato & Co.
 YAZOO CITY—Cummings, M. F.

Echenbrecht, William
 Hamel, L. J.
 Hoffman, J. C.
 Morford & Co.
 Ramey, James H. & Co.

MISSOURI.

AURORA—Burney Bros.
 Zumbrunn, L. B.

BETHANY—Bethany Hardware Co.
 Cole, W. C.

BOONVILLE—†Davidson, J. M.

BROOKFIELD—Hackett & Winkler
 †Jenkins, W. H.
 BUTLER—†Bennett-Wheeler Mer. Co.
 Ray, John
 Yeomans, A. O.
 CAMERON—Bolton, J. S.
 Hogan, E.
 CAPE GIRARDEAU—†Cape Plumbing & Heat-
 ing Co.
 Ethier, J. G.
 †Globe Plumbing & Heating Co.
 Lee, Walter J.
 McClatchey, Wm. & Co.
 Slavick, M. A.
 CARROLLTON—Heins, W. F.
 Rucker Bros.
 CARTHAGE—Knudson Plumbing Co.
 Speece, K. A.
 †Wetherell & Co.
 CARUTHERSVILLE—Seat, J. G. & Son
 CHILLICOTHE—Gill & Brown
 Stevus, B. B.
 Wheeler, B. S.
 †Wheeler Plumbing & Heating Co.
 CLAYTON—Eclipse Plumbing Co.
 CLINTON—Baum, Henry
 Geraghty, John J.
 Sherpy & Stone
 COLUMBIA—Hornberger, W. W.
 Matthews, C. D.
 Walker, Wm.
 Wetzel & Stewart
 DE SOTO—†Cunningham & Hamel Mer. Co.,
 223 B'way
 McLane, D. D.
 Slauson & Kingston, 222 S Main
 EXCELSIOR SPRINGS—Crockett, Wm.
 Curnett, A. & Co.
 Snyder, Walter
 FAYETTE—Bell Bros.
 FULTON—†Berghauser Hardware Co.
 †Callaway Hardware Co.
 Fisher & Neal
 HANNIBAL—Bluff City Plumbing, Heating &
 Lane & McNally Electric Co.
 INDEPENDENCE—Haines, J. E., 215 W Lex-
 ington
 †Walt Plumbing Co., 111 S Liberty
 Weitzell, J. H.
 JEFFERSON CITY—Decker-Hoon Plumbing Co.
 Frank, Joseph N.
 †Jefferson City Light, Heat & Power Co.
 †Jefferson Heating Co.
 Jeffrey, H. A. & Co.
 Kiems, Thomas
 JOPLIN—Burgess & Kirwin
 Coberly, R. E.
 †Comerford, J. W.
 Hamilton, James
 Joplin Satitary Plumbing Co.
 Schulte, H. B.
 South Joplin Gasfitting Co.
 KANSAS CITY—Allison & Hudson, 1015 Holmes
 Bacon, C. A., 3035 Independence av
 Bawly, O. A., 1611 Penn
 Brickley & Smith, 2209 E 9th
 Brinton Pump & Plumbing Co., 1310 Inde-
 pendence av
 Carlson & Draper, 1024 E 12th
 Cathcart & Marvin, 919 B'way
 Cavanaugh, M. F., 1616 Grand av
 †Connell, R. T. Plumbing & Heating Co.,
 1221 Grand av
 Connor & Ulrich, 1412 W 29th
 Cook, T. W., 3039 Woodland
 Corcoran, W. H., 17 E Mo. av
 †Cotter, McDonnell Plumbing & Heating
 Co., 1700 Main
 Cowger & Dunn, 621 Inde av
 Cross, J. M., 706 Bank
 †Cunningham Plumbing & Heating Co., 408
 W 12th
 Curley, Jno. T., 3306 Troost
 Davidson, Frank F., 810 E 12th
 Dawson, R. L., 915 Wyandotte
 Derby, Wm. J., 510 E 12th
 Doherty, Ephraim, 1808 Cherry
 Dougherty, W. C., 620 Prospect
 Dow, W. H. Co., 2121 E 31st
 Enggas, M. C., 115 E 5th
 †Farley Bros. Heating & Plumbing Co.,
 1409 E 12th
 Felleman, H'y, 2306 E 15th
 Gallagher, T. E., 2311 Lexington
 Galloway & Geiss, 1428 Main
 Galvin, J. J., 303 W 12th
 Gifford, B. F., 2602 E 15th
 Gilchrist, T. B., 1805 Independence boul
 Good, Walter & Son, 1204 E 24th
 Gray, Alex. Plumbing & Heating Co., 312
 Hacker, Fred. Plbg. Co., 412 Main E 8th
 Halsey Bros., 1803 W 39th
 Hanson & Wright, 1110 E 15th
 Hedrick, H. B., 10 E 13th
 †Hornbrook, E. D., 1109 McGee
 Hutton Broe., 4019 E 15th
 Joergens, M. H., 415 E 15th

Justus, D. E., 1836 Brooklyn
 Kansas City Plumbing Co., 308 B'way
 Kelly, C. F., 2602 Prospect
 Knobelsdorf, R. E., 1315 E 15th
 McCoy, G. S., 1216 Cherry
 McKeighan, E. E., 2409 E 24th
 †McKinley, Arthur Co., 1111 E 12th
 MacMahon Co., 1006 McGee
 Magill, J. J., 907 Wyandotte
 Maloney, Timothy P., 711 Prospect
 Miller & Haljerson, 317 W 9th
 Mitchell & Keck, 1623 Grand av
 Morgan & McCaffrey, 3408 E 27th
 Nicol, A. A. Heating & Plumbing Co., 7
 Pardee, H. R., 3302 Penn E 13th
 Pardee, J. V., 3917 Main
 Peters Plumbing & Heating Co., 2019 E 9th
 Preston Bros., 2519 E 18th
 Reilly-Ankerson Plumbing Co., 4204 E 15th
 Richardson Bros., 208 W'port av
 Richardson, R. H., 4203 Oak
 Root Bros., 116 W 13th
 Scannell Plumbing Co., 1015 E 9th
 Schroeder, C. P., 1409 Main
 Sharp, J. H. & Brp., 406 E 14th
 Slvewright & Smith, 2401 E 12th
 Standard Plumbing & Heating Co., 3041
 Staples Plumbing Co., 1706 W 39th Main
 Success Heating & Plumbing Co., 714
 †Sutter, O. J. & Co., 214 E 15th Wyandotte
 †Terry, C. F. & Co., 112 W 10th
 Thompson, C. E., 1217 Grand av
 Thomson & Son, 4601 Independence av
 †Wagner Plumbing & Heating Co., rear 1324
 Euclid
 Walker, Thos. H. & Co., 1618 Main
 Warmholz, Wm., 957 Mulberry
 Watts, Thos. P., 920 Garfield
 Welch, F. L., 408 E 15th
 Westport Plumbing & Heating Co., 521
 W'port av
 Wiedenmann & Purcell, 414 W'port av
 Wirthman, J. A., 1413 McGee
 Wirthman, P. W., 1123 E 18th
 Zorn, Charles A., 2005 E 15th
 KIRKSVILLE—Grassie Bros. & Hansen
 KIRKWOOD—Donworth & Kelly
 LAMAR—Cochran, W. R.
 LEXINGTON—Leiter, Jno. K.
 Weber, Wm. K.
 LIBERTY—Lippert & Magill
 LOUISIANA—Bass, W. M.
 Caldwell, J. W. & Bro.
 MACON—†Norman, W. S.
 Walker, W. P.
 MAPLEWOOD—Graham & Henderson
 Hoon, B. A.
 Millway & Co.
 MARSHALL—Irwin, James
 Naylor, B. F. Furniture & Plumbing Co.
 Nichols, H. L.
 MARYVILLE—Fisher, Jesse L.
 Grundy & Tindell
 Martin Bros.
 MEXICO—Ferris, G. L.
 Robertson, G. W.
 MOBERLY—Beuth, J. P.
 Smith, J. Oscar
 Tedford Plumbing Co.
 Vandergrift, Wm. P.
 MONETT—Williams, C. I.
 NEOSHO—Heaton, Warren
 Tretbar-Turner Plumbing Co.
 NEVADA—Eddleman & Monerlef
 Ewing & White
 †Fluke, D. E.
 Imler, Edward
 PALMYRA—Best Bros. Hardware Co.
 Nix & Berghofer
 POPLAR BLUFF—Beers, L. E.
 Morrison, H. J.
 RICH HILL—White, John R. & Co.
 RICHMOND—Percival, J. H.
 ST. CHARLES—Heye, Thos.
 Schulze, John
 ST. JOSEPH—Bristol Bros. & Howe
 †Bristol, P. L. & Bro., 1018 Frederick av
 †Byrne-Powers Plumbing Co., 418 Francis
 Davidson-Roster Plumbing Co.
 †Donegan, M. J., 101 4th
 Feeney & Downey
 Gilborne, W.
 Hale Bros. Plumbing Co., 428 Edmond
 Krause, J. F. Plumbing Co., 813 Francis
 Jackson, Martin W. Plumbing Co., 111 S 4th
 †Rock, C. F. Plumbing & Heating Co., 823
 Stumpf, F. J. Fellx
 Western Plumbing Co.
 ST. LOUIS—Abel & Gerhard Plumbing Co., 909
 Ahrens Bros., 1908 N Grand av N 6th
 Armbruster, Frederick, 14 N Theresa av
 Barkhoefer, Aug., 2359 Wren av

Barkhoefer, Edw., 1828 N 9th
 Bassett, A. & Bro., 810 N 4th
 Bastian, Jos. H. & Co., 920 N 14th
 Becker, P. & Co., 2305 Franklin av
 Beinke, F. C., 4319 A Margaretta av
 Bellm, Frank, 2229 Gravois av
 Bernstein, Morris, 1124 N 8th
 Berwanger, Louis, 2503 S Jeff av
 Blisbarrow, Geo., 913 N Sarah
 Black, George H., 5012 Delmar boul
 Bleakney, Jesse A., 921 N King's Highway
 Bluthardt, John-G., 1403 Pine boul
 Boever, Jos. A., 5 N 3d
 Bond, Thos. F., 4152 N B'way
 Bonroe, Theo., 212 N 10th
 Bowdern, James, 1951 Madison
 Boyce, Arthur, 5809 St. Louis & Sub. Ry.
 Brandt, Frank A., 3011 Olive Tracks
 Brewer-Clark Co., 714 N Taylor av
 Breitt Bros., 113 N 11th
 Bruce, Wm. L., 3337 N 11th
 Burke, Wm. J., 1811 Pine
 Burns, John, 111 N 22d
 Cantwell, James J., 3505 Cass av
 Carroll, James P., 1214 N Jefferson av
 Chard, W. A. & Co., 713 N Vandeventer av
 Clucas, William L., 3203 Park av
 Coffey, F. J., 2619 N 14th
 Collins Bros., 397 N Euclid av
 Collins, C. Sons, 609 Walnut
 Collins, David J., 1008 N Vandeventer av
 Corrigan, Jno. F., 2511½ St. Louis av
 Costello, William, 111 N 11th
 Cotta, Bruno, 3227 Osage
 Court, Thos. B., 2747 Arsenal
 Crancer, L. P., 904 High
 Crane & Clancy, 1010 N Taylor av
 †Crowley, James H., 5895 Delmar boul
 Cunningham, Clarence O., 4608 Page boul
 Cunningham, David C., 2648 Lafayette av
 Dempsey Bros., 2725 Lafayette av
 Dempsey, Robert P., 1011 Old Manchester rd
 Dieckmann, Julius F., 3211 Meramec
 Diestelhorst & Hoeffler, 1920 E Grand av
 Dillon, A. E., 2329 Gilmore
 Dittmar, Chas., 2114½ S B'way
 Dockery, Jos. B., 1013 S 11th
 Dodge, C. H., 2814 Marcus av
 Doerner, H. D. M., 2701 S B'way
 Doherty, Geo. J., 4425 Olive
 Dougherty & O'Rourke, 1727 S Jefferson av
 Driscoll, Patrick J., 3547 Park av
 Eckerle, Adam O., 3522 Missouri av
 Eckhardt, Geo., 714 Chouteau av
 Egan, Jas. E., 7206 S B'way
 Elchmann, O. H., 1014 N B'way
 Els, Jno. D., 3412 Montana
 Erman, Wm. C., 3150 Easton av
 Eschrich, A. J., 3516 Miami
 Ettlinger, Edwin, 3535 Easton av
 Fassel, Jos. M., 1804 Geyer av
 Fettig, A. F., 3413 Olive
 Fink & Schuster Plumbing Co., 819 S 4th
 Flunegan, Edw., 4248 Olive
 Fischer, Charles, 215 N 13th
 Fitzgerald Plumbing Co., 3227 Franklin av
 Fitzgerald & Glennon, 358 N Boyle av
 Forbes, Jas. & Co., 1231 N B'way
 Foy, John J., 13 S Vandeventer av
 Freeman, Jos. P., 2954 Easton av
 Frost, John, 15 N 10th
 Gallagher, Edw. J., 1014 Tyler
 Gardner, E. F., 402 N 11th
 Gavan, Michael D., 4253 Swan av
 Gillies, Peter, 214 S 12th
 Gilmore, Stephen, 2321 Pestalozzi
 Ginsberg, Isadore, 816 N 9th
 Gloeckner & Melville, 925 Clarendon av
 Graham, Thompson B., 6808 Manchester av
 Groeschel, Charles A., 2910 Woods
 Gross, George, 1004 Park av
 Guldra, Joseph E., 15 S 22d
 Handorf, Louis, 1900 Oregon av
 Hannegan, Daniel E., 2002 Gravois av
 Harrington, H'y F., 3625 Lucky
 Harrington, Pat'k L., 608 Chouteau av
 Hausdorf, Edw. A., 611 Russell av
 Hayes, John T., 411 Spruce
 Heckmann, Frank H., 2514 N 14th
 Heil, August, 2903 S Jeff av
 Heil, Frederick, 3451 Indiana av
 Hencke, Werner, 2335 S Grand av
 Hennessey, Thos. J., 2717 Dayton
 †Hill, W. J., 1523 Marcus av
 Hlrshstein Plumbing Co., r 1321 Aubert av
 Hoban Plumbing Co., rear 1219 N Spring av
 Hoefener, Julius, 3611 N 25th
 Hollman, Arthur, 1743 N 10th
 Hopper, R. G., 24 S 14th
 Houser Plumbing Co., 2623 S B'way
 Huonker, Chas. L., 2702 Chouteau av
 Johnston, Wm. J., 3119 Clark av

Kahn, Chas., 1708 Russell av
 Kaiser, Robert, 4322 A Garfield av
 Kaplan, Reuben, 1310 Carr
 Keane, Jos. F., 3608 Finney av
 Kelly, Jas., 2314 Cass av
 Kennedy & Fox, 2808 Easton av
 Kiel, Alfred L., 3218 Park av
 Kiernan Plumbing Co., 2300 Washington av
 Kilcullen, F. N., 1452 Cass av
 Killoren, Thos. H., 2334 Market
 Kilpatrick, H. T., 1109 Pine
 Kuhns, W. H. & Son, 1704 Chateau av
 Lambe, W. F. & Co., 804 Market
 Latta, Rufus, 1551 S Jefferson av
 Lawler, P. R., 3229 Hickory
 Leary, John F., 15119 O'Fallon
 Lee, Patrick J., 719 N Leffingwell av
 Life, Wm. P., 4226 Pleasant
 Lohoefer, Edward F., 810 Olive
 Longinotti Gas Fitting Co., 317 N 11th
 Lorenzen Bros., 1209 S B'way
 Lynam, Timothy M., 3424 Olive
 Lynch, James A., 106 N 10th
 Lyons, John, 221 Chestnut
 McCann, Edw. I., 222 Locust
 McCormack, John F., 420 N Vandeventer av
 McCormack, Wm. T., 4361 Papin
 McCue, John J., 1057 Hodiarnont av
 McHenry, Wm. F., Arcade bldg
 McLundie, Edw. M. & Co., 5761 Easton av
 McMahon, Jno, 709 St. Charles
 McNamara, Lawrence, 5395 Eastern av
 McNary Bros., 3311 Manchester av
 Mahaney, J. T., 907 N 17th
 Manahan, Edmud E., 9 S Newstead av
 Manahan, Thos. J. & Co., 2127 Pine
 Manchester Plumbing Co., 4337 Manchester
 Mandel, Hyman, 1217 N 8th av
 Marx & Neun Stove & Plumbing Co., 1800
 Maslin, Wm. E., 2249 S Grand av S 11th
 Mayer, A. E., 2323 Chouteau av
 Meier, F. W., 1617 S Jeff av
 Meyer, Fred'k A. C., 3136 Cass av
 Meyer, Geo. T. & Bro., 2603½ Chouteau av
 Meyer, H. J., 1018 Geyer av
 Miles, Geo. P., 2838 Manchester av
 Moore, Henry, 1135 Olive
 Moore, Wm. J., 4001 Castleman av
 Mortimer, Wm., 1619 S B'way
 Mossinghoff, Jacob W., 1409 Salishury
 Moynihan, Cornelius, 1918 Olive
 Muehleisen & Milz, 4236 Manchester av
 Mulherin, Jas. A., 4970 Delmar boul
 Murphy, Patrick J., 808 N 8th
 Mykins, William K., 1508 N Taylor av
 Nash, James J., 4435 Easton av
 Niemeler, Wm. H., 2907 McNair av
 Nohle, James J., 2718 Clark av
 O'Brien, Jos. F., 2003 E College av
 O'Donnell, Harry C., 4478 Easton av
 O'Leary, Jno., 3868 Easton av
 O'Neill, Chas. J., 2807 Washington
 Ohlendorf & Heitner, 2007 Salishury
 Ost, P. Louis, 3747 S B'way
 Paris, Harry H., 4310 Lee av
 Peiffer, Wm. J., 4411 St. Louis av
 Peppinbrook Bros., 1506 Chestnut
 Peters, John M., 3023 Olive
 Phillips Bros., 2832 Madison
 Pottgen, Wm. H., 1801 S B'way
 Praechter, F. J., 1805 La Fayette av
 Quinn, John P., 1020 Morgen
 Quinn, Joseph G., 5 S Ewing av
 Quinn & Smith, 618 N Taylor av
 Rahenneck, Albert, 5601 Easton av
 Reardon, J. F., 4050 Olive
 Regal Plumbing Co., 2018 Chouteau av
 Reimers, Fred'k C., 1829 N 25th
 Reisel, Edw. C. C., 4418 N B'way
 Renz, Christian J., 2521 S B'way
 Rieckus, A. J., 6819 S B'way
 Ries, Jos. A., 2940 Manchester av
 Ring, P. C., 3841 Finney av
 Rodenhiser, Geo., 3412 California av
 Rosenbaum, P. Plumbing Co., 1309 Franklin
 Rosenthal, E. C., 1854 Park av av
 Ruedi, Jacob, 2117 S 7th
 Ryan, Thos. H., 6341 Michigan av
 Ryffel & Ratz, 3516 Easton av
 Sanders & Schulte, 3511 N B'way
 Sapin, A. D., 4211 Lucky
 Schaffer, Frank F., 1318 S 3d
 Scheffer, Edw., 3252A California av
 Schindler, Roney, 6617 S B'way
 Schleich, H. R., 1030 Park av
 Schlottmann, Herman, 2605 N Jeff av
 Schmitt, Daniel H., 4966 Easton av
 Schoen, John Plumbing Co., 818 N 11th
 Schoenemann, Edw., 3727 N B'way
 Schwehr, Wm. & Sons, 826 N 8th
 Selbel, Neal C., 936 Goodfellow av
 Selbel, N. J., Jr., 6119 Easton av

Sheehan, Jeremiah, 1012 Locust
 Sheehan, T. J., 4253 Olive
 Shelley Bros., 3176 Easton av
 Simmons, F. N., 2106 Market
 Smith, Bernard P., 1431 Franklin av
 Sorns, Valentine, 2845 Salena
 Stahl, W. G., 4398 Chouteau av
 Starck, Chas. F. Plumbing Co., 1320 Marcus
 Steher, H'y A., 631 S 4th av
 Stein, Wm. F., 1027 O'Fallon
 St. Louis Plumbing Co., 5601 Easton av
 Stuckenberg, John F., 1808 Sidney
 Taaffe & McNamara, 1811 Cass av
 Tacke & Rochow, 6909½ S B'way
 Thierry, Edw. & Co., 217 S 14th
 Tighe, James F., 4240 Olive
 Tobin, Matthew J., 2635 Olive
 Tuffy, M. J., 8 N 10th
 Tuffy, Thomas, 19 N 9th
 Tumalty, Jos. F., 110 S 9th
 Tyler, W. J., 5741 Easton av
 Unland, Caspar H., 3413 Klein
 Valenta, Jos. J. & Bro., 108 N 15th
 Vollmer, Wm. F., 3605 Grand
 Walsh, J. E., 4971 Easton av
 Walther, Chas. F., Jr., 3534 S B'way
 Weher, Benjamin A., 2215 Osage
 Weber Plumbing Co., 4479 Finney av
 Werner, Geo., 2908 Montgomery
 Werner, Oscar, 4815 Easton av
 Wetzel, Frank L., 3333 Manchester av
 Whelan, Patrick J., 720 N Spring av
 Whitney Plumbing Co., 3510 Penrose
 Wiedemann, Gustav, 1853 S 12th
 Wilke, J. A., 2501 N 9th
 Wilke, O. L., 2808 N 15th
 Wilson, Ernest, 1935 Franklin av
 Wise & Co., 4478 Finney av
 Witler, Edw., 1006 Old Manchester rd
 Woodlock, J. F., 3512 St. Louis av
 Wuest, Michael, Jr., 3824 S B'way
 Yaeger, H. C., 1915 Franklin av
 Zausch, Edw. C., 4121 Easton av
 Zimmermann, Frank, 2918 N B'way
SEDALIA—Boland, Wm.
 Gray & Suter
 Ilgenfritz Hardware Co.
 Watkins, J. T.
 Werner, Carl P.
SLATER—Hawkins, J. B.
SPRINGFIELD—Armstrong, Thos. & Bro., 301
 Cooper Bros., 400 South E Commercial
 Schneider, J. W., 217 W Walnut
 Schuerer & Son, 425 E Commercial
 Shields & Zelleken
 Springfield Plumbing Co., 302 Boonville
 Standard Plumbing Co., 217 E Walnut
TRENTON—Shine, John
UNIONVILLE—Eddy, Frank
WARRENSBURG—Babh, W. R.
 Miller, O.
 Stillwell, M. F.
WEBB CITY—Guynn & Warren
 Luker, J. H.
 Schwarz, John R.
 Webb City Plumbing Co.
WEBSTER GROVES—Clamp, W. F.
WEST PLAINS—Friege, Otis
 McFarland, J. H.

MONTANA.

ANACONDA—Hasley, J. A.
 Ulrich Plumbing Co.
BILLINGS—Beeman, F. H.
 Berryman Bros.
 Gordon, F.
 Stocking, R. D.
BOZEMAN—Felenzer, Emil
 Krueger, Louis
 Lundwall, Charles
 Reeder, W. W.
 Rich, E. T.
BUTTE—Allen, Walter T.
 Anaconda Copper Mining Co. (H'dw Dep't)
 Dorhoffer, F. J.
 Eschle Plumbing & Heating Co., 51 E B'way
 Flaherty, P. J.
 Forhes, R. G.
 Killeen, W. J., 21 W B'way
 Krueger, Isidor, 114 N Main
 Walker, A. J.
 Wright, Edwin
DEER LODGE—O'Neill Hardware & Plumbing
GREAT FALLS—Boyd, J. T. Co.
 Collins, J. A.
 Northern Hardware Co.
HELENA—Adams Heating & Plumbing Co.,
 Capital Plumbing Co. Power blk
 Cole, F. L.
 Ferree, Calvin, 36 S Main
 King, Charles, 206 Rodney
 Sturrock, John, 103 E 6th av

KALISPELL—McIntosh Hardware Co.
 Missoula Mercantile Co.
LIVINGSTON—Drier, D.
 Harker, Thomas A.
 Laurens, Alfred
MISSOULA—Boehart, Oscar
 Broadbent, Willis
 Garden City Plumbing Co.
 Kennedy, J. W.
 McBride, J. L.
 Missoula Mercantile Co.
RED LODGE—Root, Edwin C.

NEBRASKA.

ALLIANCE—Acheson, W. S.
 Brennan, A. F.
AUBURN—West Bros.
BEATRICE—Barclay, Frank W.
 Pyle, G. Clifford
BLAIR—Arndt, F. W.
CHADRON—McNair, Robert
COLUMBUS—Dussell, A. & Son
FAIRBURY—Gage & Beardsley
 Gihsen, John
 Munroe, C. S.
FREMONT—Andrews, J. W.
 Brooks, W. F.
 Hurst, B. M.
 Larson, Louis J.
GRAND ISLAND—Grand Island Plumbing Co.
 Kelly, William
 Postal, J. H.
 Upperman & Leiser, 116 S Pine
HASTINGS—Anson & Pratt
 Rose, J. A.
 Rutherford, Adam
HOLDREDGE—Haller, H. O.
 Rugg, George H.
KEARNEY—Ayres, W. K.
 Lucas & Huston
 Matson, N. P. & Co.
LINCOLN—Best, A. L.
 Chipman, George
 Kelly & Kelly
 Kormeyer Co., 215 S 11th
 Kunkler, Chas., 1111 N
 Meade Plumbing Co.
 Miller, W. C., 1106 O
 Mohr, H. J., 1020 N
 Phillips, F. C. Co.
 Pomerene, L. W. Co., 238 S 11th
 Wiltamuth, G. E.
 Worsley, G. H., 1031 N
MCCOOK—Burgess, F. D.
NEBRASKA CITY—Aird, H. W.
 Kuwitsky, Horace
 Maher, John T., 916 Central av
NORFOLK—Norfolk Plumbing & Heating Co.
 Rish, O. W.
NORTH PLATTE—Fillmon, J.
 Hibner, Frank
 Kempton, S. N.
 Lemaster, Jno. W.
OMAHA—Baroch, Leo, 505 S 13th
 Bellamy & Hornung, 1624 Capitol av
 Brennan Bros., 1466 S 16th
 Cameron, James Plumbing Co.
 Cattin, W. J., 910 N 24th
 Chapman & Mahan, 512 N 16th
 Coffey, J. F., 413 S 15th
 Daly, W. T., 701 S 16th
 Dudgeon, D. W., 2910 Farnam
 Free & Wickersham, 214 S 19th
 Grmwald, Schroeder & Co., 1214 Douglas
 Hanighen, John J., 403 S 15th
 Hinton, H. B., 2040 N 18th
 Huber, Chas. F., 1301 Farnam
 Jamieson, Adam, 1705 N 24th
 Krelle, G. F., 707 S 27th
 Kruger, H. H., 2812 Leavenworth
 Kuehn & Co., 521 S 16th
 Lynch Bros.
 McInerney, J. L.
 McVea, Harry
 Morris, Geo. J., 1512 N 40th
 Morris Bros., 2918 Farnam
 Morrissey, Jno., 1802 Sherman av
 O'Neill, John A., 400 N 16th
 Park, Mrs. Margaret, 2922 Leavenworth
 Rich & Falconer, 2517 N 20th
 Robbins, J. W., 2011 N 24th
 Rowe, John & Co., 1412 Howard
 Sanitary Plumbing Co.
 Savard, A.
 Stribling, John, 2708 Lake
 West, Jos., 1607 N 24th
 Whelan, Wm. T., 621 N 16th
 White, Robert T.
 Whitney & McWilliams
 Young & Kreager
PLATTSMOUTH—Johns, James M.

SCHUYLER—Davis, Davis & Fletcher
SEWARD—Babson & Dickman Implement Co.
SOUTH OMAHA—Beck, G. E.
Briggs, George W.
Offerman Plumbing, Heating & Contracting Co.
†Parks, Geo. & Co.
Thomsen Bros.
WYMORE—Burke & Tapman
YORK—Chambers, W. J.
Snyder & Payne

NEVADA.

CARSON CITY—Millard, A. J.
GOLDFIELD—Shillington, J. E. & Co.
RENO—Ainley, John & Son
Genesys, B. J.
Hamp & Simas
†Nevada Hardware & Supply Co.
Nevada Plumbing & Sheet Metal Works
Rohr, G. & Co.
Schmitt, E.

NEW HAMPSHIRE.

BERLIN—†Berlin Mills Co.
†Burbank, E. A.
Crowell, Geo. H.
CLAREMONT—†Burns, Jno. W., Main
†Crossman, Fred S.
Rice, Chas. A.
Sweeney, Wm. P.
CONCORD—Bateman, Charles W.
Clifford, M. E. & Co.
†Lee Bros. Co., 12 Pleasant
Milton, G. S. & Co.
Orr & Rolfe
Trask, Albert S.
DOVER—Baty, John, 46 Locust
†Doran, Hy. W.
Huneau, Israel J.
†Littlefield, Frary & Co., Washington
Scarr, Gerald A.
EXETER—Hilliard & Kimball
Young, Augustus
FARMINGTON—†Thayer, W. F.
FRANKLIN FALLS—Cherrier & Morrill
†Jenkins & Wallace
HANOVER—Ford, Elmer T.
HILLSBORO BRIDGE—†Newman, W. E.
KEENE—Fitzgerald & Hevey
Hubbard, H. W.
†Pearson Bros.
Rossman, G. M.
Stickney, C. E.
LACONIA—†Clement, Joseph H.
†Huse, Warren D. & Sons
†Laconia Plumbing & Heating Co.
McNamara, Tbos. W.
LAKEPORT—†Brawn, Wm. H.
†Dame, C. C.
LANCASTER—†Moore, L. F. (Est. of)
†Thompson Mfg. Co.
LEBANON—Rose, F. T.
MANCHESTER—Amlaw, A. A., 341 Pine
Bartlett, O. F. & Co., Smyth blk
Beaumont, N. J. & Co.
Berry, David S.
Coleman, M. J., 374 Chestnut
Connor Bros., 49 Central
Dufrain, Louis N.
†Goodwin, Wm. E., 1172 Elm
Griffin, F. W., 540 Chestnut
Guiney, John J.
Knoettner, Geo. & Co., 163 Douglas
Landregan, Timothy F.
Leighton, Frank D., 1222 Elm
McDonald, Charles F., 24 Nasbua
McLoughlin, John T.
Marchand, J. F.
Marston, Gardner E.
†Pike & Heald Co., 927 Elm
Stevens & Bradley
†Wolf, C. Louis, 48 S Main, W M
Worthen, Beau & Co.
MEREDETH—Pynn, Gilbert
MILFORD—Baker, Sidney S.
Powers, Geo. A.
Wilson, W. H.
NASHUA—†Avery, Chas. H. Co., 59 Factory
Buxton & Allard
Colborn, Roy A.
†Gay, A. E., 62 Main
†Jackman, C. B. & Son, 24 Cross
Leazotte, Jos. W.
†McDonald, H. R., 11 Factory
Marden, Chas., 89 Pearl
Ray, Frank O. Co., 85 Pearl
PENACOOK—Baab, Elmer E.
Bean, W. A.
Orr & Rolfe

PETERBORO—Fish, Albert E.
†Nichols Bros.
Parkhurst Bros.
PORTSMOUTH—Barrett, James W.
†Chadwick, G. B. & Co.
Goodall & Tolman
Portsmouth Plumbing & Heating Co.
†Pryor & Matthews, 16 Market
†Sweetser, J. P., 46 Market
Wood, F. L., 26 Market
ROCHESTER—†Bailey, Charles M.
†Holt, J. H.
Jenkins, C. E.
SOMERSWORTH—Murphy, J. J.
Murray, James W.
Rivard, Z. H.
SUNCOOK—Herbert, James J.
Morse, Chas. P. & Son
TILTON—Garriek, J. F.
WEST DERBY—Parquette & Belanger
WHITEFIELD—Stoughton Co. (The)
WINCHESTER—†Hutchins, Jno.
WOODSVILLE—Perkins, N. B. & Co.

NEW JERSEY.

ARLINGTON—†Ackerman, Cbas., 442 Elm
Bornemann, A. O.
Burus Bros. (Kearny)
†Brodell & Metzger, 491 Elm
Danecke & Schieman, 153 Midland av
Hafstroem, Charles A. (Kearny)
Hartman, Wm. E. (Kearny)
MacArthur, Archibald (Kearny)
Nagel, James J. (Kearny)
Pratt, James H. & Co. (Kearny)
Wallwork, James (Kearny)
ASBURY PARK—Bimbler, F. M.
Boyce, Joel S.
Brown, Ferdinand, 702 Summerfield av
†Crowell & Walton, 713 Mattison av
Flitcroft, J. E., Allenhurst
Hallmeyer, W. H.
†Hays, George H.
†Hays & Glashan
†Landis, Howard C., 614 Bangs av
Leonard, John, 43 S Main
Lepine, Wm. J., Avon
Robinson, J. H. & Bro., 621 Cookman av
Turner, Geo., 631 Mattison av
ATLANTIC CITY—Alhertsen & Young Co.
Borden, Charles F.
Bowker, Lewis G.
Brown, Harry D.
Clayton, Wm. V.
Coogan Bros., 16 S Michigan av
†Currie Co., 1218 Atlantic av
Framhes, Curtis
†Freeman, L. E., 1022 Atlantic av
Gaskill, Norris L.
Gibson Co.
Grant, Jobu & Co.
Hawkins, Lewis B.
Hinkle, Mrs. C. A.
Jarman, Thos. J. & Son, 34 S New York av
Kirkbride, H. W., 819 Atlantic av
Lane & Kent
Leeds, A. P.
Liherman, Noah
McDevitt Bros. & Co.
Moore, J. H., 14 S Kentucky av
Priestley, Harry
Roberts Bros.
Specht Bros.
Stewart, W. E.
Thompson, C. S.
Towhey, Michael H., 9 S Delaware av
Walsh, Frank
Yentter, Edward W.
ATLANTIC HIGHLANDS—†Flitcroft, John S.
†Irwin, A. E.
White, Conover E.
RAYONNE—†Bannon, James J.
Beck, Louis
Cadmus & Alfeld
Conroy, Thomas J.
Denton, Fred'k J., Av D nr 28th
Devaney, J. J., 207 Av D
Devlin, William C., 299 Av D
Einstein, Louis
Gilbertson, Jno.
Gill, Andrew T.
Haskard, W. T., 9 W 8th
Heine, R. C., Jr.
Higgins, W. F.
Hovel, Jas. C., 920 Av D
Hovel John W.
Ingerman Bros.
†Knight & Burns
McAdee, John
Oliver, W. C., 10 W 7th
O'Neill, Wm. M.
Osbahr, Ernest
Preston & Gleason
Valleau, Percy
Wald, Samuel
Walsh, Samuel
BELLEVILLE—Browe, Theodore L.
Gilby, Alfred J.
Jacobson, W. H.
Smith, W. B.
BELMAR—Allspach, William
†Haberstick, Samuel, N 9th av
BELVIDERE—†Perry, D. & Sons
BLOOMFIELD—†Ackerman, Edgar D., 316
Glenwood av
†Arthur & Stanford, 449 Bloomfield av
Cogan, Thos. F.
Daly, Thomas F.
Griffith, E. B. & John E., 24 Osborn
Hutchings, J. L.
Maddox, A. M.
Morsh, Ernest A.
Mylod & Sherman
O'Brien, Frank L., 37 Willow
†Wissner, Frank, 673 Bloomfield av
BOONTON—Estler, C. E.
Schmidt, John & Son
BORDENTOWN—Ford, H. B.
†Kafer, A. A.
BOUND BROOK—Gilespe, Solomon
Williams, T. F.
Zepp, William
BRIDGETON—Anderson, Martin Co.
Chapman, James
†Custer & Richards
†Downing, John
Gibson, F'k H.
†Grim, Joseph
Harper, Geo. W.
Horner Bros.
Taylor & Hepner
BURLINGTON—†Groves, George W.
†Larzalere, Frank
Lawrence, Ell, Jr.
O'Neil, James
Whomsey, George C.
BUTLER—Harmon, John
CALDWELL—Dungan, Richard
†Heller, Fred'k L.
Leonard, Frank A.
CAMDEN—Andress, D. E.
Andress, E. B., 221 S 5th
Bakley, Christopher, 618 Chestnut
Blowe, George B., 1020 S 8th
Brower, Chas. H., 29½ Market
Bryan, J. T., 601 N 3d
Chamberlain, John W., 508 Pine
Conner, James A.
Connor, Edw. J., 1139 S 3d
Cramer, Clifford W., 11 Haddon av
Davis, Claude N., 1021 Newton av
Diehm, Joseph R.
Doyle, Daniel J., 1102 Baring
Farrell, Harry J., 102 N Front
Fitzsimmons, Cbas. H., Jr., 299 Sycamore
†Francis, Henry B., 322 Kaighn av
Hammell, H. B.
Hammond, George F., 18 S 3d
Heppard, Alfred, 1127 S 4th
Hutchison, Benj. H. B., 124 N 3d
Jobannes, Henry G., 57 N 2d
Kelly, Edward F., 26 S 4th
Lafferty, Chas. S., 310 N 11th
†Loughheed, W., 411 Vine
†Macintosh, Robert, 515 Federal
Milby, J. B. & Sons, 3214 Federal
†Moore, Charles M., 53 N 3d
Morang, J. Hy., 216 Point
Mount, Wm. H., 740 Carman
Muench, August E.
Patterson, W. W., 900 S 8th
Patton, J. Edward
Pepeta, John F., 1027 N 27th
Rudderow & Derrick, 429 B'way
Sigle, Calvin R., 24th c Federal
†Simpson, L. C., 820 B'way
Smith, A. J., 2631 Westfield av
Stone, Morton M., 513 Chestnut
Vanderslice, Harry E., 3600 Federal
Walker, F. S., 601 N 7th
†Walton, Jas. F., 2d c Main
Walton, Thomas & Bro., 1110 S 4th
Zimmerman, Frank, Liberty cor Rose
CAPE MAY—Brown, William
†Curtis, B. S.
CHATHAM—Callaban, Patrick
†Hynes, John L.
COLLINGSWOOD—Raynor, Harry
Shaw, Charles F.
Shaw, Harry
Shinn, Chas. R.
COLUMBUS—Rockhill, B. F.

CRANFORD—†Doyle, John
O'Donnell, E. A.

DOVER—Cook, C. P.
Kerr, J. T. & Co.
O'Connell, John
Riker, Zenas
Swackhamer, P. W.

DUNELLEN—Aganey, James
Carpenter, Benj. C.
Giles, George F.
Kuldoshes, George

EAST ORANGE—Black, J. S.
†Cahill & Mills, 10 Washington pl
De Nourie, Herbert L., 20 Sterling
Dewstoe & Fricke
Emmerson & Co.
Harrison, George W.
†Harrison & Walker, 341 Main
Klein Bros.
†Lang, Francis, 378 Main
Lang, Geo. W.
Matherny, Andrew S., 256 Prospect
Metz, Chas. E., 91 Main
†Miller, F. W., 19 Prospect pl
†Mills & Brown, 143 Main
†Mooney Bros., 324 Main
Nelson, J. & Co.
O'Brien, Francis L.
Prentice & Brenner
Schrack, C. H.
Smith, Frank K.
Stasse & Aschenback
Trapper & Slattery
Thorpe, J. A., 14th c Park av

EGG HARBOR CITY—Goller Bros.
†Senn, Edward

ELIZABETH—Behm, Florenz B., 252 Union
Brandt, Robert E., 327 Fulton
Bruchlacher Bros., 1165 Elizabeth
†Byrnes, Patrick W. & Son, 1199 E Broad
Capraun, P. & A.
†Conrad, John F., 815 Elizabeth av
Coughlin, J. F., 107 S Bond
†Dederick, James W., 33 1st
†Faulks, James H. Co., 1151 E Jersey
†Heald & Khun
Heuser, Frank, 444 Elizabeth av
†Hoffman, L. A. & Son, 1184 E Grand
Keelan, Thomas J.
†Kleinhaus, Henry, 1204 E Grand
Lally, Jas. H., 208 2d
Lally, James J.
†Lounsberry, Chas. B., 4 Jullan pl
Lowe Bros.
MacGregor & Mulford, 10 Julian pl
Martin, Jacob Co., 459 Elizabeth av
Mecabe, Louis C., 408 Jefferson av
Messing, George, 1009 E Grand
†Rath, Henry A. & Co., 1217 E Broad
Sless, George F., 608 South
Smith & Walsh, 54 3d
Steege, William, 411 Livingston
Tipper, Chris. J., 589 Madison av
Walsh, William A., Jr., 218 2d

ELMER—Fithian, C. H.

ENGLEWOOD—†Alexander, William H.
Baldwin, Charles W.
Beck, William
Beggs, T. R.
Elmore, Mrs. Lillian E.
Gomm & Hagan
Griffin, James F.
Kelly & Dowd
Kingsley, Thomas

FLEMINGTON—Hopewell, John B.

FORT LEE—Ghent, H. H.
Lautenschlager, L.
Pagluighl, Louis

FRANKLIN—(See Nutley)

FREEHOLD—Denise & Buck
Giblin, William
†White, Alonzo

GARFIELD—Carl, John

GLOUCESTER CITY—Black, Emmet
Robinson, William A.
Smith, J. W.
Walsh, Michael

GUTTENBURG—Barrett, George J.
Bausch & Hurley
Cade, P. J.
Maguire, Wm. J., Bull's Ferry rd

HACKENSACK—Ackerman, Frank, 172 Main
†De Baun, Geo.
Doughty, E. C.
Hutchinson & Andrus
McGrath, Daniel
Pfezenmaier, John F., 257 Main
Shafer, G. F.
Van Orden, Charles
Vreeland, S. H. (Bogota)

HACKETTSTOWN—†Christian, Jay S.
†Drake, William H.
†Osmun, E. M. & Son
†Salmon Heater & Mfg. Co.
Titus, F. P.

HADDONFIELD—†Bennett & Dreyer
Elsele & Manning
†Pettibone, W. H.

HALEDON—Maxwell, Arthur, 77 Zabrlskle
Van Riper, Frank, 418 Belmont av

HARRISON—(See Newark)

HIGHTSTOWN—Skillman, A. T.

HOBOKEN—Bach, Charles
Bowes, Thos. & Bros.
Clark, Jas., 417 Newark
Clinton Plumbing & Gas Fitting Co.
Coppers, George & Co., 220 Washington
Driesen, I. M.
Hanley, T. J.
Hourigan, Jos. F.
Jensen & Erickson
Kivlon, John
Kniffen, James H.
McGovern, Bernard, 211 44th
Pfugh, August T.
Salminl, M. F.
†Sinclair, Graham M., 106 4th
Vinten, Geo. W., 404 Bloomfield

IRVINGTON—(See Newark)

JERSEY CITY—Allen, James, 443 Bergen av
Barclay, Wm. A., Jr., 314 Pacific av
Becker, Adolph E., 486 Jackson av
†Birkenstock, John G., 764 Ocean av
Blackshaw, James F., 218 Monticello av
Breher Bros., 357 Palisade av
Clark, H. K., 182 Steuben
Cobert, E. & Co., 597 West Side av
Connelly, Robert J., 202 4th
Coulson, Robert J., 576 Summit av
Crescent Co., 621 Communipaw av
Cross, Wm. J., 157 Webster av
Dickinson, W. H. & Co., 715 Grand
Dietz, John F., 143 Linden av
Dittmar, A. J., Jr., 123 Erle
Dodds, James, 137 Ocean av
Doran, Thomas, 699 Newark av
Duffy, John J., 103 Railroad av
Edgar's, Robert Sons, 290 Central av
Ewald, Fred'k, 349 Varick
†Farrier, W. W. Co., 44 Montgomery
Geraghty, G. L., 353 3d
†Heatherton Bros., 662 Ocean av
Irving, Robert & Son, 179 Montgomery
Jardine, Albert J., 119 Montgomery
†Joans, James A., 743 Grand
Kelt, John J., 599 Newark av
Kelahe, F. T., 770 Bergen av
Knoll, George W., 503 Palisade av
Kuntz, Joseph C., 438 Grove
Langan, John P., 429 Jersey av
Lillis, M. D., 141 Pavana av
McElwin, James J., 92 Coles
McGuckin, Arthur H., 376 Jackson av
McGuinness, Joseph H., 570 Communipaw av
Malone, M. F., 296 Henderson
Maloney, M. T., 4 Coles
Meehan, James P., 271 Washington
Moore, E. H., 254 Washington
Murphy, William J., 140 Pavana av
Neumann, F. W., 108 Hutton
O'Brien & Kelt, 253 Washington
O'Crowley, J. J., 45 Hudson
†Renker Bros., 127 Danforth av
Sharrock, John J., 274 Varick
Sproules, Jos. A., 339 Montgomery
Stone, Wm. H., 387 West Side av
Stoveken, Herman F., 121 Monticello av
Sulk, Charles H., 529 Communipaw av
Taylor & Molloy, 603 Grove
Towey, F. W., 12 Charles
Walterthum, Nicholas
Werner Bros., 1133 Summit av
†Worden & Crawford, 805 West Side av
Zambusch, Joseph, 392 Pacific av

KEARNY—(See Arlington)

KEYPORT—†Force & Wyckoff

LAKEWOOD—Aring, John H.
†McKelvey, M. R.
Myers, John A.
Potts, Wm. F.
†Storms, William E., Jr.
†Taylor, Samuel S., Meadow av

LAMBERTVILLE—Bratton, J. B.
Cox, Charles D.
Pettee, C. M., 22 Church
†Universal Heating & Contracting Co.

LONG BRANCH—Adamson, Robert C., Jr.
†Barham, James Co.
Barham, Thomas B.
†Bazley & Burns
†Curr, William & Co.
Hines & Hammer

Northam & Throckmorton
Rudloff, Charles H.
†Warwick, W. R., Jr.

MADISON—†Allen, George A.
Cook, E. L.
†Would Bros.

MILLBURN—Bailey, F. S.
†Douglas, T. A.

MILLVILLE—†Barnett, Lewis
Bullock, Frank
Ferraris, John D.
†Gray, Howard A.

MONTCLAIR—Cable & Fay
Crane, I. Seymour
†Fass, Fred.
Fentzlaff Heating Co.
Gray, J. F.
Kaveny, John J.
McCrystal, William
McGregor, Alex.
Peterson, Charles N.
Samuel, Charles J.
Taylor, John H. & Bro.

MOORESTOWN—Spinner, H. H.
Urquhart, Wm. B.
†Worrell, E. C.

MORRISTOWN—†Bryan, William G.
Carroll & Son
Ducey, Patrick G.
†Kay, William J.
Looney, W. J.
Meslar, W. H. & Co.
Oliver-Drake Co.
Salkind, H. M.
†Tompkins, Llewellyn B.
†Tompkins & Welsh

MOUNT HOLLY—Brannan & Holt
†Shreve, Joseph S.
Stead, Elwood
†Worrell, George D.

NEWARK—Appel, Leo, 10 Boyd
Arbeitsel, Joseph L., 25 Clayton
Axelrad, J., 31 S Orange av
Baillet, H. F., 191 Clinton av
Baudermann, M. T., Jr., 159 William
†Bauman, C. V., 43 William
†Baumann, George & Sons, 584 Hunterdon
Beckett Bros., 285 Washington av
†Berla Bros., 217 Washington
†Berla, Elias, 76 Mulberry
Berla, Moritz, 74 Bank
Blacher, Harry, 132 West
†Bleything, E. A., 102 Roseville av
Blum, John G., 330 Waverly av
†Bond, Charles E., 357 Washington
†Boerger, Ernest (Irvington)
Bopp, John & Co., 384 S 20th
†Bormann, J. H., 16 Avon av
†Brady & Schall, 8 Stone
Brenner, Philip, 56 Franklin
Brody, Bernard, 168 Broome
Bruck & Mury (Irvington)
†Budd, Ira, 297 S Orange av
†Budd, Joseph, 46 Green
†Callan, Patrick, 94 Plane
Carlucci Bros., 148 7th av
†Champlin, C. B. & Bro., 71 Central av
†Collier & Mooney, 23 Wright
†Crawley, George M., 498 Broad
†Cunningham, M. J., South nr Jefferson
Davidson, Charles, 81 Springfield av
†Demars, William, 57 Mechanic
Deuchler, Conrad, 51 Lincoln
†De Vausney, Jacob & Son, 512 Orange
Dombrowsky, Edw. & Bro., 109 Niagara
†Drummond, Wm. H. Co., 60 Lafayette
†Dunn, Walter P. (Inc.), 42 Mechanic
†Earl & Cook, 311 Orange
Ellerman, John, 420 S 10th
Endlich, Henry, 149 Bloomfield av
†Engelberger, F. & Wm. V. Co., 159 Jelliff av
Ennis, J. H., 152½ Washington av
†Frecland, E. P., 45 Grafton av
†Frost, S. R., 67 Burnett
†Fuerst, Frank, 722 Bergen
†Geiser, Theo. & Sons, 248 Plane
†Gill, J. B. & Co., 319 Warren
Glueckfeld, Samuel, 24 Belmont av
Glutting, Geo. A., 7 Norfolk
†Gordon, S. W. & Co., 635 Warren
Groel, Henry F. & Co., 74 Somerset
Grohmann & McDonald, 282 N 6th
†Groves, E. L., 395 Mulberry
Guarantee Plumbing & Roofing Co., 99
†Hammond, Theo. C., 13 Ferry Academy
Hanley & Co., 224 Ferry
†Harris, Chas. W. P., 407 Warren
Haselmayer, F. A., 10 West
†Holliday, A. E., 415 Halscy
†Hough, Chas. S., 86 Court
Hough, John F., 405½ Washington
†Howarth Bros. Co., 62 N. J. R. R. av
Hutchinson, James, 133 Bloomfield av

Jacobi, Wm., 100 New
 Jacobus, Wm., 30 Wright
 †Jaehning & Peoples, 221 13th av
 †Joyce, E. J., 412 Mulberry
 Katzin, Jacob S., 101 West
 Kaufhold, Theo., 123 Bowery
 †Kay, Grant, 36 New
 Kehoe & Metz, 349 Mulberry
 †Kelley, Thos. F., 19 Parkhurst
 Kern, E. J., 159 13th av
 Klesewetter, Edwin, 179 Clinton av
 Klein, Chas. J., 33 Montgomery
 †Koether, Rudolph A., 17 Court
 Kolb, C. H., 14 Mercer
 Lacmann Bros., 198 Ferry
 †Laible, Jacob, 56 S Orange av
 Lawson, Louis, 93 Commerce
 †Lawson, W. A., 93 Commerce
 †Leonard, E. B., 14 Lombardy
 Lutz, Carl, 117 West
 †Lutz, Elmer, 89 New
 †Lynn, Hugh, 99 Belleville av
 †McGuire, Chas. F., 313 Halsey
 †McGuire, J. C., 327 Plane
 †Maier Bros., 41 Bloomfield av
 Marshall, S. J., 442 John, E Newark
 Marshall, Wm. C., 851 Mt Prospect av
 Meeks, Chauncey S., 63 Pa. av
 †Merkel, Fred P., 533 Central av
 †Mersfelder Bros., 259 Halsey
 O'Brien & Newton, 193 Halsy
 O'Connell & Hilser, 240 18th av
 †O'Crowley, R. J. (Est.), 12 Bridge
 Osbahr, Theo. H., 53 Blecker
 †Perry, George F., 451 Washington
 Plumbing, Heating & Electrical Repair Co.,
 Quant, H. H., 411 1/2 15th av 188 Market
 †Rau, Jacob, Jr., 43 W Kinney
 Rlordan, S. F. (Harrison)
 Rlttersbacher Bros., 36 S Orange av
 †Robson, Fred'k W., 6 Van Wagenen
 Rowe, A. H., 48 Hartford
 Sandford, Thomas A., 349 Broad
 †Schmidt, R. B., 62 Ann
 Schreiber, George, 153 Emmett
 Schulte, A., 102 Sussex av
 Schwartz & Co., 133 Newton
 Schwarzwaelder, G., 11 Blum
 Shachat, J. & Co., 30 Hillside pl
 †Simpson, Albert J., 223 Clinton av
 †Sippel, Theo. A., 205 McWhorter
 †Soleau, E. R. Co., 21 Camfield
 †Spatcher, William, 121 Union
 †Stadelhofer, Max, 232 Orange
 Staehle & Co., 287 Belmont av
 Stauber Bros., 81 Pacific
 †Stelner, Albert, 252 Court
 †Stelner, Emil E., 50 Ferry
 †Sternkopf, Edwin, Jr., 45 Pacific
 †Stickel, George, 101 Union
 †Stone, Charles H., 106 Thomas
 Storms, Jno. G., 30 Poinier
 †Storms & Co., 112 S 14th
 †Streblinger, Chas. Sons, 410 Morris av
 Struening, August, 427 S 6th
 †Sturn, F. J., 900 Broad
 Sutcliffe, aJames, 52 William
 Thompson, Jno., 371 Washington av
 Thorpe, J. A., N 14th
 †Thrush & McMillan, 108 Roseville av
 Townsend & Co., 615 Springfield av
 Van Ness, H. E. (Irvington)
 †Virtue, W. E., 59 Pa. av
 Wagner, Julius, Jr., 291 Camden
 †Weitlauf, Fred'k, 84 Brunswick
 †Wilson, Samuel F., 474 Clinton
 †Wolff, W. D. & Co., 643 Orange
 †Woodside Plumbing & Heating Co., 188
 †Wuner, E. M., 312 Elm Washington av
 †Zeltler, Robert, 190 Hillside av
 †Zelliff, Winslow, 350 Belleville av
 †Zimmerman Plumbing & Heating Co., 291
 Zipf, Jacob, 110 Ferry Market
 †Zitzner, John P., 19 Magnolia
NEW BRUNSWICK—Banker, Edw.
 †Dey, Charles R.
 Dobson, Thomas
 Fink, Fred., 148 Neilson
 †McCormick, Charles & Son
 †McFadden, Michael
 †McKeag, Hugh
 Moore, John H.
 Peyton & Welker
 Price's, H. M. Sons
 Smalley, Wm., Jr., & Bro.
 Willson, R. Vansant
NEWTON—†Watkins, Charles H.
OCEAN GROVE—Reid, J. T.
 †Reid, Samuel F.
 Van Cleve, A. T.
 Young, William

ORANGE—†Allen, W. A., 489 Main
 Beck, William F. & Co.
 Cahill Bros.
 Chalmers Bros.
 Conroy, James F.
 Daum, August E.
 Drake Bros.
 English, John J.
 Flinneran & Merrigan, 95 Valley
 †Garbrabant, C. & Son, 19 Stetson
 Gibbons & Clark
 †Hindle & Williams, 295 Main
 Hoffman, Adolph, 40 McChesney
 Kennedy, James A.
 Koeck, Louis
 Kraus Bros.
 Kunz & Lindsay
 Miller, Fred. C.
 Milne & Platt, 143 Main
 Schieman & Sullivan, 482 Main
 Shipman, Charles L., 286 S Jefferson
 Sylvester & Hickson
 Snow, J. W., 218 Main
 Wardell, Winfield S.
 Werner, George H.
 Williams, O. S.
PALMYRA—Fortner, John J.
 McCullough, Robert J.
PASSAIC—†Aldous Plumbing & Heating Co.
 Brooks, William
 Burrell, Robert W.
 Collins, Jno.
 Flsher & Co.
 Hahn, George H.
 †Mansfield Plumbing Co.
 Patak, Anton
 †Remig & Gelger
 Wall, Richard J.
PATERSON—Baird, John, 79 Mill
 Barrowclough Bros., 58 Graham av
 Beaumont, H., Ellison pl
 †Beaumont, John & Sons, 53 Market
 Burslem, Albert E., 469 Graham av
 Cadigan, J. H. & Son, 639 Main
 Campbell, Jno., 300 Van Houten
 Cannon, Herbert H., 449 River
 Carlock, R. & Co., 12 West
 †Carshore, Wm. J., 12 Prince
 Collins, Alfred, 365 Clay
 Collins, Jno., 662 River
 Cox, J. T., 287 Fair
 Delhagen, Wm., 53 Ward
 Devenport, James, Jr., 324 Totowa av
 †Florance, George W., 126 Straight
 Fritz, Adam, 39 Paterson
 †Gardener, Henry, 244 Water
 Gillen, Hugh, Jr.
 Greenwood, Samuel S., 749 E 22d
 †Gysbers, John W., 282 Governor
 Harring, Charles, 240 Straight
 Heuschkel, Frank A., 26 Essex
 Kearney, James & Sons, 443 Main
 McBride, Frank A., 322 Grand
 McBride, John T., 165 Marshall
 McGinnis, David L., 2 Chadwick
 McKeon, William, 47 N Main
 Maher Bros., 190 Slater
 †Mead, Jno., 100 Beach
 †Nealon & Farnon, 354 Grand
 †O'Neill, George S., 41 Bridge
 †Quinn Bros., 9 Fair
 Rear, Charles M., 44 Clinton
 Rear, George & Son, 112 N 1st
 Robertson, Robert W., 191 Mill
 †Rogers, Andrew J. Co., 90 B'way
 Samelsberger, Joseph A., 43 Park av
 Schnelder, Hy. A., 905 Main
 Stagg, Albert E., 146 N 5th
 Storms, Isaac A., 96 N Main
 Vreeland, Frank, 68 Bridge
 Walls, Charles, 51 Marshall
 †White, James H., 218 Clay
 †Whitenour, Geo. P., 20 Hamburg av
PERTH AMBOY—†Burns, Jas. F. & Son
 Galvin, R. J.
 Hanson, J. S.
 †Kelly & McAlinden Co.
 Larkin, Francis J.
 Miller, Wm. A.
 Monaghan, P. J.
 Sanitary Plumbing & Construction Co.
 Smith, A. M.
PHILLIPSBURG—Baty, Phillip
 Beam, J. H.
 †Bossard & Mansfield
 †Lomerson, J. L. & Co.
 †Ochs, William
 Snyder & Boyd
PLAINFIELD—Armstrong, M.
 Dunavan, David S.
 Dutcher, Chas. H.
 Enander, A. H.

Galbralth, D. J.
 Gilles, Arthur S.
 †Griffen, A. M.
 †Heideloff, J. J.
 †Krausse, C. W.
 Leahy, John J.
 Littell, D. W., 112 North av
 †McVoy, I. L. & Sons
 Pound, D. H. & Bro., 138 Central av
 Raybert, Charles M.
 Tobin, George J., 187 North av
 Voehl & Waldron, 224 E Front
PLEASANTVILLE—Clegg, C.
 Large, Chrls.
 Sanders, Mark & Co.
PRINCETON—McCreanor & Whyte
 Stryker, A. Y.
 Worrell-Shinn Co.
RAHWAY—†Cloke, W. H., Milton av
 Marsh, John J.
 †Tombs & Roarke, 28 Main
RARITAN—†Wyckoff, James C.
RED BANK—Cook & Oakley
 Fitzgibbon, James
 Frey, Howard
 O'Brien, William
 Sabath & White
RIDGEWOOD—Banta-Owens Plumbing Co.
 Duffy, J. M.
 Moore, W. H.
 Morgan, Wm. P.
RIVERSIDE—†Bishop, B. C.
 Fairbrother, T. W.
 Fish, Ernest C.
 Makin, Wm. K.
RIVERTON—†Worrell, Harry C.
ROSELLE—Cooley, John J.
 †Faulks, Isaac N.
 Goodiiffe & Son
 O'Donnell & Co.
RUTHERFORD—Clark & De Groot
 Evans, George
 †Tallman, S. C.
SALEM—†Casper, Charles W.
 Guest, Charles B.
 Rlghter, J. C.
 †Schubert, Ernest
 Scott, Wilbert H.
SCOTCH PLAINS—Jahn's, Robert Sons
 Morel, Louis C., Jr.
SEA BRIGHT—Garland, Michael
 Nesbitt, E. S.
 O'Brien, William
SOMERVILLE—Cline, Albert B.
 Moosbrugger, Herman
 †Southwick, R. J., Craig bldg
SOUTH AMBOY—James, V. N.
SOUTH ORANGE—Hoffman, Harry W.
 †Hughes, Edw. & Son
 †Kltchell, J. L. & Son
 Mills & Yeager
 †Newman, W. B. & Sons
 Smith, John B.
 Versoy, Geo. E.
SOUTH RIVER—Smalley, Henry
SUMMIT—Berla-Riviere Co.
 Chrystal, Mrs. J. O.
 Croot, John R.
 Dunn & Shea
 †Klocksinn, Henry
 †Scott, T. J.
 Thomson, A.
SWEDESBORO—†Starr-Irving Plumbing Co.
TOWN OF UNION—(See Weehawken)
TRENTON—Barnard, James, 131 W Hanover
 Black, Jno., 45 W State
 Bond, W. A., 307 Hudson
 Boyd, John W., 880 Lambertson
 Boyd, Wm. A., 320 S Clinton av
 Burroughs, J. J., 517 Beatty
 Carpenter, E. A., 360 S Broad
 Cocker, Wm., 577 E State
 Cody, Wm. F., 512 S Clinton av
 †Dikson, Wm., 351 Perry
 Dobbins, W. C., 156 S Broad
 Dowling, J. A.
 Grelner Plumbing Co., 256 N Clinton av
 Hill, Wm. W., 451 Centre
 Hunt, A. E.
 Johnston, G. F., 22 E Hanover
 Kafer, Geo. W., 19 S Warren
 †Katzbach, F. S. & Co., 35 E State
 Kimble, C. H., 209 N Broad
 Lee, Elverson Y.
 McGrory, Robert, 316 W Hanover
 Mackey, John, 154 N Broad
 Mahaney, James, 56 W Hanover
 Nightingale, R. W., 317 E State
 Norrls & Shoemaker
 Openshaw, Albert V., 849 S Broad
 Piper Bros.
 Ranken, Alex.

Rickard, Isaac, 324 Rutherford av
 †Schmerhorn, A., 9 E Front
 Siddall, Thomas, 310 S Broad
 Slack Bros., 340 N Broad
 Spencer, Robert, 206 S Warren
 Stillwell, Chas., 471 Centre
 Sweeney, John J.
 Whitehead-Bell Co.
 Whitehead, Charles W., 970½ E State
 Wilkes & Rickard
 Zimskind, Louis, 622 Perry
UPPER MONTCLAIR—(See Montclair)
VAILSBURG—†Ebert, William
VERONA—Bessinger & Wilkes
 Gore, Wm. J.
 Heider, Carl
VINELAND—Austin & Turner
 †Bagg, W. L.
 †Ferrares, J. P.
 †Large, Wm. J.
 †Mason, Herbert J.
 Read, J. H.
 Sinley, Chas. W.
 Webb & Dillon
WASHINGTON—Flint & Hall
 †Johnston, Jas. H.
 Major, Delbert
WEEHAWKEN—Borg, W. F.
 Butler Plumbing & Heating Co. (W N Y)
 Gilmour, William
 Krieger Bros.
 Manahan Bros.
 Menegaux, L.
WENONAH—†Vierck, J. A.
WEST END—(See Long Branch)
WESTFIELD—Ferris, Mahlon H.
 †McVoy, H. E.
 Miller, Jno. L.
 Taylor, Harry N., Broad
WEST HOBOKEN—Steinhoff, Henry C.
 Winant & Co.
WEST NEW YORK—(See Weehawken)
WEST ORANGE—Bauer Bros.
 Daum, John, 301 Valley rd
 English, John J.
WOODBIDGE—Edgar, Frank P.
 Humphrey, Robert
 Moore's, E. F. Sons
WOODBURY—Cox & Waldron
 Muller Bros.
 Powell, Samuel C.
 †Rice, Arthur J.
 Wakeman, William
 Wales & Powell
WOODSTOWN—†Lippincott & Hunt

NEW MEXICO.

ALBUQUERQUE—Albuquerque Hardware Co.
 Staehlin, A. L.
 Standard Plumbing & Heating Co.
GALLUP—Howard, J. J. & Son
LAS VEGAS—Gehring, F. J.
 Patty, S.
 Vogt & Lewis
RATON—Hobbs Hardware Co.
 Smith, P. H.
SANTA FE—McKenzie, Mrs. W. A.
 †Santa Fe Hardware & Supply Co.
SILVER CITY—Robinson, St. George (Est. of)
TUCUMCARI—Anderson, S.

NEW YORK.

ALBANY—Baxter & Binder, 360 Hudson av
 †Boyle, Richard J., 15 Green
 †Britt, John J., 142 Central av
 Euerg-r, J. D. & Son, 23 Grand
 Cassidy, Wm. F., 365 S Pearl
 †Coughlin, Theo. N., 253 Ontario
 †Delehanty's, M. Son, 32 Green
 Doyle, John, 14 James
 †Dugan, John E., 4 Monroe
 Dugan, W. S. & D., 28 Clinton av
 Dunn, Geo. L., 44 Orange
 Dunn, Thos. E., 335 Central av
 Eckert, Albion J., 259 Central av
 Feenan, Jas. J., 255 Lark
 †Fisher Bros., 75 Northern boul
 †Fitzgerald, John L., 22 Beaver
 Fitzgerald & Halpin, 652 Central av
 Franklin, Thomas B., 13 Elizabeth
 Gas Appliance Co., of Albany, 112 State
 Gaylor, John H., 50 N Swan
 Gersbach & Schafer, 17 Central av
 Gilmour, Allan, 46 Orange
 Goerlin, John, Capitol
 Goetz, Edward, 211 S Pearl
 Gorman, Edward, 280 S Pearl
 Gorman, James J., 14 Norton
 †Hawkins, M. J., 44 Orange
 Hellman, Nathan, 51 Maiden la

Hermann, John L., 224 Washington av
 †Hunter, Jas. Heating & Contracting Co., 1
 Hyde, Thomas, 125 N Lake av Church
 James, J. Edw., 6 Plain
 Kalbfleisch, Adam & Son, 109 N Lake av
 Kavanaugh, D. F., 15 Daniel
 Keeshan, Clarence S., 6 N Hawk
 Kerwin, Timothy E., 2 William
 †Kieley & Stahl, 10 Green
 Leikhim, J., 865 B'way
 Logan & Tennant, 208 Hudson av
 McCormick, James, R., 19 William
 McCormick, Wm. J., 787 B'way
 McCoy, Forrest H., 65 Beaver
 McElrone, Hugh J., 366 Madison av
 McNally, John C., 174 Madison
 Maguire, Joseph P., 172 Madison av
 Martin, James, 917 Madison av
 Mesick, Frank I., 238 Washington av
 Miller, Wm., 32 2d av
 †Moran, J. H., 76 Eagle
 Murphy & Hanley, 50 Hudson av
 Nickias, Jos., 104 Quail
 Nolan, Thos. F., 72 Madison av
 Pierce, Thos., 53 Hamilton
 Prior, Thos. W., 201 Central av
 Ridgeway, Frederick W., 41 Washington av
 Riegel, August, 626 Central av
 Riley, Jno. J., 306 Sheridan av
 Roos, Adam, 279 S Pearl
 †Russ, Herman H. & Sons, 121 State
 Ryan, Edw. J., 75 Wash'n av
 Schade, Charles, 423 Sheridan av
 Schimpf, Frank F., 68 Wash'n av
 Scott & Ryder, 443 Madison av
 Sheehan, Jos. F., 125 Madison av
 Sisson, Frank N., 58 Maiden la
 Smith, Michael F., 129 Knox
 Trueworthy & Shone, 96 Schuyler
 †Van Loon Plumbing & Heating Co., 120
 †Wallen, William, 81 Chapel Madison av
 Walsh, J. D. Sons, 40 Sheridan av
 Walter, Louis, 405 Central av
 Wareing, Thos., 375 Hudson av
 Wareing, Wm., 22 William
 Welter, Peter, 4 Morton
 Westcott, Horace F., 40 Lodge
 Whitbeck, H. C. & D. S., 215 Hudson av
ALBION—Bennett & Stetson
 Blott, Alfred
 Galarneau, Homer P.
 †Waterman, G. M.
ALEXANDRIA BAY—†Hartman, Henry
 †Thompson, W. H. & Son
AMITYVILLE—Cort, George W., Jr.
AMSTERDAM—Breen & Shook
 Chase Bros.
 Donohue, Michael J.
 Dwyder, Edward T.
 †Dwyer, Cornelius, 18 Chuctanunda
 Gilgore, W. H.
 Harnish, John
 †Lenahan Bros., E Main st
 Lenahan, John F.
 Lindsay & Dodds
 McGrath, Thomas
 Teller, George E.
ATTICA—Dunbar, J. W.
 †Tolles, Edward D.
AUBURN—Barrett, S. H.
 Cunningham, T. J.
 Donovan, Dennis A.
 Fell, H. H.
 Holihan, John E., 31 State
 Holihan Bros.
 Irish, Fred F.
 Kerslake, Harry A.
 Meaker, Wm. R., 144 Genesee
 Warne, Joseph
 Wheeler, Seymour B.
 Witter, F. E.
BABYLON—Field, M. H.
 Ketcham, W. P.
 Kleindienst, Peter
 Ohlmiller, Sebastian
BALDWINVILLE—Albert, Arthur J.
 †Baker Bros.
 Voorhees, J. S. & Co.
BALLSTON SPA—Healey & Dower
 Thomas & Mooney
 Tracy, John J.
 Watts, F. W.
BATAVIA—Bradish, Jno. H.
 Grentzinger Bros.
 Ireland, Martin L.
 †Russell & Palmer
 Voltz, H. J.
BATH—Gould & Nowien
 Rohie, J. L.
BAY SHORE—†Newberry, John H.
 Udall, E. R.

BAY SIDE—(See New York City, Borough of
BINGHAMTON—Beagle, V. E. Queens)
 Beagle & Welsh
 †Boughton & Marland, 197 State
 †Cronin, T. J.
 †Cropper & Son
 †Gaylord & Eitapenc Co.
 Hadley, V. W., 175 Water
 Hungerford & Smith
 Kelly, Frank P.
 †Lewis, Merton E.
 Liddell, William, 48 Schiller
 †McCullough, W. D., 140 State
 McManamy & Rodman, 39 Chenango
 †Maiane, D. J., 88 State
 Oeftering, John S.
 O'Neil, J. G. & Co.
 †Runyon & Ogden
 Smith, Wm. S. C.
 Van Antwerp, E. D.
 †Warner Plumbing Co., 129 Oak
BOONVILLE—Knapp, John T.
 Smith & Gibbs
BREWSTER—Fowler, J. Edward
 Smith, W. E.
BROCKPORT—†Brennan & Adams
 Hinman & Fowler
 †Van Eps, W. B.
BROOKLYN—(See New York City, Borough of
 Brooklyn)
BUFFALO—Alway, Geo. E., 94 E Utica
 Baird, Fred H., 140 Erie
 †Barnd & Geiger, 11 E Mohawk
 Barr, Nathaniel L., 799 Elmwood av
 Batt & Co., 201 Maple
 Bauer, John G., 213 Krettner
 Baumgaertel, Herman, 17 Walden av
 Bean, Schmerhorn & Co., 69 Main
 Beanard, Wm. C., 1634 B'way
 Bergman & Co., 1659 Main
 Beyer, Frank L., 229 Pearl
 Bower, George P., 776 Seneca
 Boyd & Son, 132 Niagara
 Bradley, Fred. A. & Co., 1333 Niagara
 †Brenner, Christian, 540 Genesee
 †Breshnahan, James J., 462 Elk
 Bresnehan, T. J., 198 Abbott rd
 Bronold, Joseph, 221 E Ferry
 †Burgmaster, Daniel, 44 N Division
 Burrows, George S., 1195 Genesee
 †Burt & Harrison, 118 Brayton
 Caldwell, William, 61 Vary
 †Calkins, R. C., 64 Oak
 Campbell, Fred'k J., 589 Potomac av
 †Candee, J. S., 596 South Park av
 Carroll, John J., 311 Connecticut
 Case, W. A. & Son, 31 Main
 †Casey Bros., 642 Walden av
 Cherry, F. & Co., 30 Front av
 Clarkson Bros., 498 Elk
 Clucas, George D., 283 Bryant
 Cole, James L., 1108 Genesee
 Connors, James J., 23 Fitzgerald
 †Cook & Smith, 199 Pearl
 Cornelius, Philip, 384 Louisiana
 Craighill, William H., 369 Michigan
 †Crique, C. A., 926 Main
 Cronyn, Thomas N., 47 70th
 †Danforth, John W. Co., 70 Ellicott
 Danner, George, 597 William
 Dark & Co., 654 Main
 Davis & Wright, 681 Main
 Dechert Bros., 31 River
 Dellinger, John, 127 Grant
 Drescher, George E., 47 W Swan
 Ebbs & Johannes, 105 Niagara
 Engel, Geo., 182 Genesee
 Farthing, Alfred B., 517 Ellicott
 †Feider & Merkle, 294 Seneca
 Frank & Bluestein, 233 William
 Franke, Edward S., 79 W Chippewa
 †Frontier Plumbing & Heating Co., 535
 Geckler, Louis L., 48 12th Washington
 Geoghan, J. P., 1144 Lovejoy
 Gerspach, Valentine J., 135 Guilford
 Gilchrist, W. J., 157 West av
 Gordon, Alexander D., 231 Franklin
 Green, Jno. B., 717 Elmwood av
 Griffin's, John W. Sons, 645 West av
 Haas, Geo., 167 W Tupper
 Hagen, Conrad & Sons, 726 Genesee
 Herlan & Honecker, 1261 Michigan
 Hokamp, Joseph H., 366 B'way
 †Huck, Charles B., 820 Main
 Hurley & Stygall, 181 Virginia
 †Irr, George, 517 Wash'n
 †Irr & Son, 19 Wadsworth
 Jann, C. J., 838 Genesee
 Kamprath, Fred'k C., 394 B'way
 Kavanagh, Jas., 80 Ellicott sq
 †Kavanagh, Miles & Co., 54 West av
 Kavany, John J., 23 Terrace

Kavany, Thos. J., 347 Niagara
 Keenan, John H., 157 Virginia
 Keenan, J. & Son, 330 Franklin
 Kellar, Wm. A., 451 Breckuridge
 Kelly, Wm. D. & Co., 180 Forest av
 Kennedy, Chas. M., 431 William
 Kirkwood, Jno. A., 1222 Jefferson
 †Knepper, John H. & Son, 501 Washington
 Kolb, Edw. A., 1419 Main
 †Kranishfeld, Albert C., 434 Genesee
 Kuklinski, Joseph, 1209 B'way
 Lehr, Geo., 972 Genesee
 Lehr, Henry C. & Co., 878 B'way
 Lindsay, Wilson, 167 E Ferry
 Lochnicht, F. M., 511 Rhode Island
 Logan, Wm. H., 1237 Niagara
 †Lund, Daniel, 153 W Mohawk
 McArthur & Stamp, 162 Pearl
 McCutcheon, C. H., 18 Ohio
 †McEvoy, Timothy & Son, 414 Niagara
 Martin, Wm. H., 126 Vermont
 †Mensch, J. L., 374 Ellicott sq
 Mldgley, William G.
 Mills, Wm. J., 150 Military rd
 Millidge, Edward T., 376 Grant
 Moore, Geo. P., 179 Pearl
 Muck, Jno. M., 704 William
 O'Mara, Jno. E., 471 Mass. av
 Park, Thomas F., 71 E Utica
 Postle, Frank W.
 Renwick, Ralph C., 510 Nlagara
 Roche & Moore, 158 Ohio
 Rogers, Edward W., 337 E Ferry
 Ruchte, E. C., 2328 Main
 †Ruckel, J. H. & Son, 81 Main
 †Sander, B. J., 1917 Niagara
 Schank, Geo. L., 167 16th
 Schanley, Charles, 127 Court
 Schlatterer, Stephen, 301 Eagle
 Schmahl & Albee, 471 Ellicott sq
 Schultz, Louis, 303 High
 Schunk Bros., 294 B'way
 Slatter, George T., 89 Pooley pl
 Smith, Fred'k J., 2326 Seneca
 †Smith, John D. Co., 51 Pearl
 Sperry, Edw., 375 William
 Steinman, Charles B., 164 Woodlawn av
 Stevenson, A. E., 311 Niagara
 †Stewart, S. B., 1056 Clinton
 †Sticht, Lorenz, 176 Reed
 †Tallmage, M. F., 80 Seneca
 Talty, Frank P., 1236 Seneca
 Telaak & Co., 507 Clinton
 Telaak, William J., 265 Sherman
 Terry, Jno. T., 20 Grant
 †Vaux & Co., 257 Pearl
 Volmer & Milne, 91 Hertel av
 Waldow Bros. Co., 215 Fillmore av
 Waldow, J. F., 2204 Seneca
 †Waldow & Doerr, 1267 Fillmore av
 Wall, M. G., 238 Albany
 †Wallworth, Wm. H., 413 W Ferry
 Wannop, John, 12 William
 Waterman, Warren, 63 Tryon pl
 Weinfenbach, Henry, 424 South Park av
 Weigel, 642 Northland av
 †Weinheimer, John F., 308 Genesee
 Welch, J. T., 491 Connecticut
 Whalley, Henry, 81 Indian Church av
 Wilson, Jas. D., 177 Ellicott sq
 Wilson, James L., 353 Hoyt
 Wood, Henry J., 220 Lexington av
 Yuhl, Fred'k H., 163 William

CAMBRIDGE—Maxwell, Gilbert
 Watkius, R. H.

CAMDEN—†Dorrance, W. H. & Son

CANAJOHARIE—O'Brien, John J.
 †Scharff, Chas. W.

CANANDIAGUA—Conyne, Myron
 Cooley, A. E. & Co.
 Downs, P. B.
 Hawley, L. H.
 †Kelly, J. H.
 †Sterling, A. A.

CANASIOTA—†Bemiss & Co.
 Canastota Heating & Plumbing Co.
 †Farr Bros.

CANISTEO—Laine, Orton O.

CANTON—Howe Bros.
 McCormack & Main
 Stewart, Geo. M.
 Tallman & Howe

CARTIAGE—Chauffy, R. & R. O.
 †Strickland, J. E. & Son
 Thrall, F. L.

CASTILE—†Cole & Andrus

CATSKILL—†Adams & Spencer
 †Conklin, Jacob
 †Day & Holt
 Jones, H. T. & Sons
 Lattimer, Frank

CAZENOVIA—Aikman, Wm. O.
 Driscoll & Marshall
 Norton, D. D.

CEDARHURST—Bradley, E. W. & Co.
 Haller, Paul
 Hetrick, Chas.

CENTER MORICHES—†Robiusion Bros.

CENTRAL VALLEY—James, C. E.
 Pemberton, J. M.

CHARLOTTE—Hamlin, Wm.
 Mentley, F. R.
 Robertson, J. L.

CHATEAUGAY—Ryan, William B.

CHATHAM—Coon, Fred.

CLAYTON—Farrell & Whitney
 La Chance & La Tart

CLINTON—†Allen, H. J.
 Clark, James

CLYDE—†Bliss, George S.
 Hughson, E. N.
 Littlejohn, A. E.
 †Murphy & McElligott
 Roy Bros.

COBLESKILL—Finn, A. J.

COHOES—†Bottum, H. E.
 Cady, Elias V.
 †Clark, David
 Dawson Bros.
 Deslauriers & Chaput
 Golden, John B.
 McMahon, Patrick F.
 Mott, Robt. H.
 Rosemond, Jas.
 Wallace, Patk. H.
 Wilbur, John S.

COLD SPRING—†Camp, F. M.
 Grace, Gerald V.
 Murray, M. A., Mrs. & Son

COLD SPRING HARBOR—Nichols, Frank

COLLEGE POINT—(See New York City, Borough of Queens)

COOPERSTOWN—Klng, Jno. H.
 McEwan, W. L.
 †Morris, George W.

CORNING—Cole, R. E.
 Costello, W. E.
 Lawrence, Frank T.
 O'Brien, T. E.

CORNWALL—Mailler, L. B.

CORONA—(See New York City, Borough of Queens)

CORTLAND—†Bates, T. T.
 †Bennett Hardware Co.
 Hollister Hardware & Plumbing Co.
 Lane Plumbing & Heating Co.
 Lewis, L. R.
 McAllister, Champion & Woodward
 Muncey, Myron J.

COXSACKIE—Antonides, A. G.
 Cossackie Gray Iron & Steam Fitting Works

DANSVILLE—†Bailey, J. J. & Son
 Engert, G. J.

DELHI—Dubbens, H. W.
 †Graham, H. S.

DEPOSIT—†Deposit Hardware Co.
 †Minor, A. P. & Son

DOBBS FERRY—Hammill, M. (Est. of)
 †Langenberg, Jos. V.
 Siess, A. C.

DOLGEVILLE—Barrett & Co.
 Faville, W. H.

DOUGLASTON—(See New York City, Borough of Queens)

DRYDEN—Bartholomew, D. P.
 Butts, Frank P.
 Meyers, Alfred
 Vunk & West

DUNKIRK—†Allenbrand, E. G. (Est. of)
 Beardsley, O. E.
 Carlyon, P. H.
 Duenzer, George
 Dunkirk Plumbing & Hardware Co.
 Kuehn & Howlett
 †Lennertz, N. J., 325 Lyon
 †Vandeveld, John J.

EARLVILLE—Avery Hardware Co.
 Morgan, Fred. D.

EAST AURORA—Graves & Rockwood
 Henshaw, E. E.
 Sommer, G. M.
 Standeven, E. J.

EAST HAMPTON—Grimshaw, S. C.
 Northrup, O. H.

EAST WILLISTON—Schmidt, George

ELLENVILLE—†McCartney, James W.
 Rose & Childs

ELMHURST—(See New York City, Borough of Queens)

ELMIRA—Bell, Henry, 165 Baldwin
 Cox, John
 Davis, R. B.
 Fuhrman Hardware & Plumbing Co.
 Havens & Co.
 Krowl, Geo. W., 325 Carroll
 †Le Vallev, McLeod & Co., 165 Lake
 Murphy, John D.

Sadler, J. T. & Co.
 Scopes, John A.
 Van Orden, E. S.
 †Walker, J. Adams, 334 E Water
 Walker, John Andrew, 126 S Main
 †Walker, R. H., 112 Lake
 Weldner, Henry J., 222 S Main

FAIRPORT—†Schummers, F. F.

FAR ROCKAWAY—(See New York City, Borough of Queens)

FISHKILL ON THE HUDSON—†Griffin & Howe
 Redman, John
 Smith, A. C. & Co.
 Yates, J. H. & Son

FLUSHING—(See New York City, Borough of Queens)

FONDA—Jansen & Huestis

FORT EDWARD—Bowtell, C. W.
 Chapman, C. E.
 Donaldson, S. H.
 Newtou & Hill

FORT PLAIN—Linney, W. T.
 Sanders, John B.
 †Stewart & Bergen Co.
 †Williams & Tanner Co.

FREDONIA—†Case & Zahn
 Ernschaw & Breed
 Powell, Jesse
 †Scott, F. W.

FREEPORT—Bedell, Joseph
 De Milt & Stamm
 Freeport Plumbing & Heating Co.
 Pearsall, W. F.
 Van Wicklen, W.

FULTON—Buell Bros.
 Donovan, Jos. H.
 McRae & Son

GENEVA—Emig & Hatmaker
 Hawkins, Abram, 22 Castle
 Stacey, J. G., Jr.
 Wilson, Wm.

GLEN COVE—Crandall, Fred A.
 Kohler & Peterson
 Mahon, F. C.
 †O'Brien, John J.

GLENS FALLS—†Adams, G. E. & Co.
 Carey, Daniel
 †De Long's Sons, 120 Glen
 Glens Falls Plbg. & Supply Co.
 Pardo & Hogan
 Spellman & Coughlin
 †Thomas, H. & Son, 81 Glen
 Union Plumbing & Heating Co.
 †Whipple & Robinson, 134 Glen

GLOVERSVILLE—†Batcheller, E. S. & Co.
 Bray, W. M., 28 Elm
 †Demarest, Wm. G., 55 S Main
 Gloversville Plumbing & Heating Co.
 Kavanagh, M. J., 4 Church
 †Sowle, J. E., 10 S Main
 Sowle & Briggs
 Stott, Howard
 †Treher, A. Jr., 13 Bleeker

GOSHEN—†Hock, Frank
 Tuthill, Charles W.

GOVERNEUR—Butters & Clifford
 †Cutting & Perrin
 Foy, F. J.
 Gates & Homer
 Williams, D. H.

GOWANDA—Gowanda Natural Gas Co.
 Gross, Daniel
 Kammerer, John
 †Nelson, D. D. & Co.
 Sullivan, P. J.

GREAT NECK—Holtje, John

GREENBUSH—(See Rensselaer)

GREENE—Beals, F. H.
 Martin Bros.

GREEN ISLAND—(See Troy)

GREENPORT—Corwin, Augustine
 Fiske, H. V.
 O'Neill, Joseph J.
 Walters, Fred'k L.

HAMBURG—†Moritz, F. A.

HAMMONDSPORT—Warren, G. F.

HANCOCK—Schenk, Reinhold
 Wheeler, S. N. & Sons

HASTINGS UPON HUDSON—Fallon, M. A.

HAVERSTRAW—Demarest, Ira
 Oldfield, R. W.

HEMPSTEAD—Carman, Isaac N.
 †Gaffney, P. R., 13 Greenwch
 Kelly, M. & Son
 New York Sanitary Plumbing Co.
 Nichols, W. T., 125 Main
 Rosenberg, Solomon

HERKIMER—Eriman & DeWitt
 McDonald & Kay
 Metzger, Wm. F.
 Pelton Bros.
 Stevens, F. H.

HIGHLAND—†Feeter, J. W.
 Hasbrouck & Smedes

- HIGHLAND FALLS**—Kelly, Frank J.
Schondel, Albert
Yagel, Frank
- HOLLEY**—Edwards, Ira
Hahn, Edward
- HONEYE FALLS**—Burton & Earl
Gates, L. E.
- HOOSICK FALLS**—†Abel & Brown
Coleman, John J.
Dorr, C. M.
Smith, Fred. O.
- HORNELLSVILLE**—Brink, L. D.
†McGulre, Chas. F.
†Miller, R. J., 44 Broad
Peck, Frank B. Co.
Rhinehart, F. H.
Roberts, Wallace, 104 Canisteo
Schultz, William F.
- HORSEHEADS**—Bowers Bros.
- HUDSON**—Armstrong, J. C., Jr.
Hudson, S. T.
Kertz, J. Frank, 318 Warren
†Parker, Byron, 436 Warren
- HUNTINGTON**—Morrison & Thompson
Stoyle, R. H.
Wenzel, Chas.
- ILION**—†Grimes & Pelton
†Schesch, Geo. A.
- IRVINGTON**—Anderson, Jas.
Blng Bros.
Fallon, M. A.
Sweetman, J. J.
- ISLIP**—†Fleld, John B.
Newton, J. W.
- ITHACA**—Donahue & Higgins
Forest City Plumbing Co.
Hulbert-Loveless Plumbing Co.
†Jamieson & McKinney
Leonard Plumbing Co.
Stephens & Masters
- JAMAICA**—(See New York City, Borough of Queens)
- JAMESTOWN**—†Chatfield & Armitage
Davey, Jas.
Heald, John
McGinty, Johnson & Co.
†Murray, M. J. & Co.
†Woodhead, Jonas
- JEFFERSONVILLE**—Greshaber, W. J.
- JOHNSTOWN**—Hotaling & Murphy
†Lynes, Wesley
Raudall, Frank
Rice, Jno. C.
Van Nest & Goodwill
- KEESVILLE**—Callanan Bros.
Washer, Quinn & Clifford
- KINGSTON**—†Ashley, Chas. P.
†Bannon, L. F., 16 Hasb'k av
†Canfield Supply Co., 16 E Strand
†Carter's, Enoch Sons, 46 Hasbrouck av
†Cusack, Thomas J., 261 Fair
Grimes, J. P.
†Halloran, Daniel, 143 W Strand
Kingston Hardware & Plumbing Co.
†Loughran, Bernard, 270 Fair
†Ryan, Mary, 635 B'way
Smith & Buddenhagen
Votteler, August F., 93 B'way
†Wieber, Henry E.
- LANCASTER**—Kittredge, E. D.
†Maute, J. N.
- LANSINGBURG**—(See Troy)
- LE ROY**—Buell, E. H.
†Taft, F. L. B., 10 Main
- LESTERSHIRE**—†Becker, Clinton D.
Lestershire Plumbing & Heating Co.
- LIBERTY**—Monroe, Westbrook & Co.
†Pierson & Weber
- LIMA**—†Banter, G. S.
- LITTLE FALLS**—†Ashenhurst, W. F. & Co.
Bradford, Ira A.
Leary, Jno. F.
- LOCKPORT**—†Carnall, Chas. E., 125 Main
Connor, M. A., 2 Main
Emmendorfer, M. J.
†Fry, Edward A., 43 Locust
†McCue, Jno., 50 Pine
Mapes & Payne, 8 Pine
Mulligan, T. W., 8 Market
Nolan, Wm., 26 Market
Silk, Joseph, 31 Market
Vandekar, Fred.
- LONG ISLAND CITY**—(See New York City, Borough of Queens)
- LOWVILLE**—Fowler Bros.
- LYONS**—Braconier, C. A.
†Hartman, W. T.
Marshall & Noble
†Nushkel, Fred.
†Zimmerlin Bros.
- MALONE**—†Berry & Pelkey
Fell, E. L.
Goff, W. J.
- Martin, George
Roby, Chas. N.
Thompson, H. D. & Co.
- MAMARONECK**—McGulre, W. J.
†McLoughlin, J. H.
Meagher & Hennessey
Veldon, Jno. J.
- MATTEAWAN**—Alsdorf, Leander
Miller, J. H. & W.
Stanbrough, J. H.
- MAYVILLE**—Stiles, H. S.
- MECHANICSVILLE**—†Allen, Wm. H.
†Baker, S. C.
Bunce, Jno. H.
O'Brien, Morris
Smith, James R. & Co.
- MEDINA**—†Acer & Whedon
†Haulon Bros.
- MIDDLEBURG**—†Sullivan, F. A.
- MIDDLETOWN**—Ayres & Galloway
†Brink & Clark
Buck Bros., 28 W Main
Carson, Chas., 79 Montg'y
†Duryea, Wilmont, 50 North
†Ebner, J. O., 84 Wickham av
Kenrich, Wm., 27 Henry
Spoonier, Henry S., 42 North
†Swalm, Geo. A. & Son Co., 18 North
- MILLBROOK**—†Pizle, B. J.
- MILLERTON**—†Paine, J. R. Co.
- MINEOLA**—Powers, S. E.
Smith, Joseph
- MOHAWK**—Adams & Co.
†Richardson, J. G.
- MONROE**—Knight, C. S.
Smith & Streble
- MORAVIA**—†Small, F. & Sons
- MOUNT VERNON**—Brogan, P. J., 129 Mt. Carmody, M. F., 2 N 3d av Vernon av
†Clark & Morrow, 1st & S 6th av
Downing, H. M., 105 S 4th av
Etsch & Gleacher
Hearne, Wm. J., 142 S 7th av
Hodge Bros., 15 E 3d
Howard, George
Johnson, John, 197 Stevens av
†McGonigal, Wm., Fairfax bldg
Marcel & Atwell, 152 S 4th av
Myers & Jordan
Norden, J., 48 Mt. Vernon av
Wilken, Henry C.
Wuestenhoeffer, O. C.
- NEWARK**—Bobrowsky, Herman
Dayton, Wm.
†Fanning, Benj.
Mattison, L. G.
- NEW BRIGHTON**—(See New York City, Borough of Richmond)
- NEWBURGH**—†Barnes, Geo. T., 107 B'way
†Clark, Leander, Jr., & Son, 65 Chambers
Fletcher, Henry, 135 B'way
†Hastings, James, 162 B'way
†Johnson Hardware & Iron Co.
King, T., 476 B'way
Lockwood, G. C.
McGivney, Phillips
McGough, James, 91 B'way
Mable, J. D. & Son, 46 Water
†Mitchell, Geo. R., 73 2d
Newman, Chas. W., 259 B'way
Nixon, William
†Pickens, A. H., 130 Water
†Smith, Albert C. & Co.
Weikert, E. M.
- NEW DORP**—(See New York City, Borough of Richmond)
- NEW ROCHELLE**—†Archibald & Lippoth
Consadene, Charles
Cunneen, Peter J.
Dermody, J. J.
Donahue, P. H.
Kennedy, D. J.
†Kottner, Louis H.
†Leary & McGrath
McGovern & Klrchoff
Minnaugh, James
Ruhl & Stubbings
Secord, R. H.
Valentine Bros.
Wallace Bros.
- Augustiu, Chas., 213 Irving av
Austin, Jno. C., 134 Reid av
Austin, R. A., 174 Sands
Avrach & Young, 111 Osborn
Ayres, Paul, 668 Union
Bachert, Chas., 95 Central av
Baerenklau, Geo. A., 1013A Gates av
Baker, Wm. B., 339 Bedford av
Barfett, J. R., 259 Flatbush av
Barr, Stewart F., 426 Sumner av & 1857
Barth, A., 393 Knick'r av Nostrand av
Bartling, Geo. H., 4208 3d av
Baskerville, John W., 14 Bedford av
Bauer, Augt., 438 Central av
Bauer Bros., 6 Stanhope
Bauer, Jos., 388 Wallabout
Baur, Frank G., 39 Hull
Becker, A. C., 312 Grand
Behrman & Leuihan, 119 Wierfield
Belford Bros., 323 Smith
Bender, Otto, 288 Central av
Berry, Sidney A., 638 Grand
Beyer, Wm., 8736 18th av
Bibby, George, 681 Atlantic av
Bishop's, Wm. Sons, 724 3d av
Bittermann, Peter J., 574 Nostrand av
Black, A. & L., 73 Glenmore av
Black & Langsam, 1851 Prospect pl
Bloeth, William J., 888 Park av
Bonfield, A. R., 1422 Fulton
Bort, Charles, 18th av nr Benson av
Bosch, John & Son, 696 Flushing av
Boyne, John, 96 Hamilton av
Braun, Louis, 236 Wyckoff av
Brein, Charles, 1830 Pitkin av
Briggs, Richard, Jr., 400 7th av
Brown Bros., 3912 Fort Hamilton av
Brown, Irwin, 182 Reid av
Brown, W. L. Co., 4410 5th av
Brown & Eckersley, 774 Flatbush av
Bruckman, Mary, 433 De Kalb av
Bryan, Francis J., 1120 Bedford av
Bryon, Edgar C., 329 Flatbush av
Buchanan's, A. Sons, 1587 Fulton & 488 Sumner av
Buck, Thaddeus, 708 Myrtle av
Buckley, C. F., 157 Cumberland
Buckley, Walter F., 274 Jay
Burckhardt, Jos. E., Sheepshead Bay rd nr W 3d
Burdette, Richard C., 1079 Bedford av
Burke, John E., 121 Wash'n
Burke, Thomas F., 178 Columbia
Burnes, George W., Bath av & Bay 14th
Burns, Hedley V., 538 De Kalb av
Burrows, Daniel J., 1439 Bedford av
Busse, Fred, 270 Ellery
Butler, Michael J., 454 Atlantic av
Byrne, Edw. J., 114 Franklin
Caffero & Esposito, 181 Sackett
Callahan, T. A., 227 Leonard
Campbell, Francis R., 191 5th av
Canavan, Frank J., 127 Driggs
Carey, Daniel J., 562 Hamburg av
†Carley, Edw., 72 Greenpoint av
Carlos, James R., 121 Nassau av
Carroll, Jas. D., 71 Dean
Chambers, Robert W., 103 Willoughby
Christensen Bros., 1047 Fulton
Christensen, Louis, 1316 57th
Clare, John F., Surf av & W 15th
Clark, Jas. F. & Bro., 464 Graham av
Clark, Jno., 351 Franklin av
Clark, Richard, 186 Remsen
Clark & Brady, ft 23d
Clarke, Robt., Jerome av nr Sheepshead
Clarke, Thos. J., 321 Furman Bay rd
Coker's, Geo. W. Son, 407 Bedford av
Coggins, R. R., 1149 Bedford av
Cole, H. W., 606 Fulton
Collins, John H., 160 7th av
Collins, Sam'l, 1530 Gates av
Collins, Wm. J., 134 Franklin
Collis, Alfred T., 631 3d av
Conlon, John J., 258 17th
Conlon, Wm. W., 1094 Manhattan av
Connolly, J. J., 430 Myrtle av
Cooper, Edwin B., 146 Jay
Corcoran, Geo. E., 276 Court
Corcoran, Joseph F., 158 Court
Corcoran, Samuel J., 328 Court
Cornell, Matthew, 426 Jefferson
Cornell, M. G., Jr., 555 Coney Island av
Covert, David D., 1678 Fulton
Cowden & Kober, 571 Wythe av
Crane, Wm. A., 49 Stone av
Cranford Bros., 291 Flatbush av
Crelghton, F. J., 277 Prospect pk W
Crowley, Thos. A., 201 Atlantic av
Cullum, David, W 8th nr Surf av
Cummings, E. & C., 745 Fulton
Dalton, James H., 362 17th
Daly, E. W., 745 Fulton
Dargent, Charles, 360 Crescent

NEW YORK CITY. Borough of Brooklyn.

- BROOKLYN**—Abrams, Edgar L., 209 Reid av
Ahlhorn, C. J., 981 Manhattan av
Aldrich, B. L., 738 Washington av
Alexander, Stephen, 999 Manhattan av
Anderson, Henry, 238 De Kalb av
Armstrong, James, 348 Court
Ashford, Wm. T., 2772 Atlantic av

Davis, Benjamin C., 12 Dean
 Davis, Charles C., 40 Boerum pl
 Davis & Engelskriger, 488 Atlantic av
 Davy, Frank, 433 Bergen
 Day, John, 19 Henry
 Dean & Robinson, 668 Fulton
 Delser, Lewis A., Jr., 388 B'way & 325 Division av

Delany, Edw. L., 971 De Kalb av
 Denison, Jos. F., 898 Quincey
 Dettelsen, Louis, 824 Fulton
 Dettviller, William T., 564 De Kalb av
 Devine & Crawford, 272 Metropolitan av
 Devos, Edw., 78 Livingston
 Diem, John V., 609 Hart
 Dillon, John J., 541 Atlantic av
 Dixon, W. & J., 29 Atlantic av
 Dixon, Z. V., 189 Ralph av
 Doherty, John M., 952 Madison
 Dolan, Peter E., 329 Jay
 Donaghy, Wm., 718 Fulton
 Donegan, D., 14th av c 58th
 Donohue, Florence J., 643 5th av
 Donohue, M. F., 548 6th av
 Donovan, Dennis J., 125 5th av
 Dooley, Maurice A., 335 Columbia
 Dowdeswell Bros., 399 Bridge
 Doyle, Jos., 318 11th
 Doyle, Nicholas, 951 Kent av
 Drake, Geo. A. & Son, 340 Sumner av
 Driscoll, Michael J., 38 Myrtle av
 Dudley, Wm. A., 1012 Kent av & 448 Laf. av
 Duffy, A. A., 669 5th av
 Dunbar, Thos., 543 5th av & 417 14th
 Dunekack, Fred'k J., 12 Meserole
 Dunn, William S., 9210 3d av
 Dunne, M. & C., 450 Gates av
 Dunnigan, Jas. A., 478 Court
 Dutton, John S., 931 De Kalb av
 Eckoldt, Harry, 1341 60th
 Edgerton Bros., 264 5th av
 Ehrlich, A. A., 18th av cor 84th
 Eiermann, Wm., 1981 Fulton
 Elliott, Wm. J., 1246 Myrtle av
 Elson, Louis H., 62d nr 11th av
 Engel, Jacob, 141A 5th av
 Ernst, Philip, 295 Bushwick av
 Esposito Thomas C., 134 Sackett
 Evans Bros., 237 Reid av
 Evans, Chas. W., 5 Reid av
 Evans & Co., 235 Nostrand av
 Evory, Wm. H., 198 7th av
 Fallon, Martin & Co., 53 De Kalb av
 Farrell, M. J., 352 Smith
 Farrell, Patrick J., 89 Orange
 Fehlinger, Nicholas, 179 Cooper
 Feinberg, Louis, 80 Boerum
 Ferguson, Thos. F., 364 3d
 Fernstein, Louis, 348 Sutter av
 Ferrer, Wm. C., 718 Mahtn. av
 Finkensleper, Paul, 58 Reid av
 Firth, Francis J., 422 5th av
 Fisher, Frank, 1218 Myrtle av & 163 Melrose
 Fitzmaurice, T. & Co., 52 Nelson
 Fitzpatrick, Wm. J., 85 7th av
 Flohn, Peter, 204 Pennsylvania av
 Foley, Jas., 255 Pearl
 Foley, Jno. E., 256 Schermerhorn
 Foley, John F., 1085 Herkimer
 Foley, J. J., 2026 Fulton
 Forrest, Jas. M., 390 Manhattan av
 Forsbrey, Henry J., 520 Willoughby
 Fox, Edw. D. Co., 91 Court
 Franz, Henry, 134 Evergreen av
 Frawley, Thos., 147 Sackett
 Frisse, Louis, 1158 Myrtle av
 Fritzen & Kent, 134 Union
 Fulcher, F. U., Winthrop nr Rogers av
 Gannon, John, 406 Bridge
 Gardner, Willis, 188 Division av
 Garvey Bros., 112 Court
 Gately, Francis J., 177 Bedford av
 Gately, A. L. & T. J., 114 Bedford av
 Gateson, Daniel T., 93 B'way
 Gault, Wm. J., 509 De Kalb av
 Gegenheimer, Louis, 792 Gravesend av
 Gelderman, Frederick, 684 Jamaica av
 Gerber, Max, 12 Moore
 Gerrie, George, 311 49th
 Gfroerer, B. E., 142 4th av
 Gfroerer, Louis P., 660 Grand
 Gilroy, Jas. A., 252 Bedford av
 Glattes, Henry, 182 Irving av
 Gleason, M. F., 131 5th av & 781 Nostrand av
 Gleason, P. H., 918a Fulton
 Glostein, Geo. H., 253 Tomp. av
 Godigkelt, Emil F., 146 Coffey
 Goedel, Otto, 1437 Flatbush av
 Goldfish, Harry, 21 Seigel
 Gollusky & Co., 365 Sutter av
 Grace, James C., 1682 B'way
 Greenburg, H. H., 678 3d av
 Grimm, William, 334 Central av

Groneman, H. C., 1379 Fulton
 Grossberg, Louis, 138 N 6th
 Grossman, Philip, 124 Moore
 Grote, William, 800 Driggs av
 Gunning, John D., 100 Orange
 Haaf, Louis, 265 Ellery
 Haag, Joseph, 692 Hart & 398 Throop av
 Haff, L., 918 Myrtle av
 Haley, Edward, 859 Atlantic av
 Hall, A. M., 557 3d av
 Halloran, P. F., 583 3d av
 Hamfield, Chas., 368 Throop av & 261½
 Hamilton & Davis, 278 13th Tompkins av
 Hamma, Charles, 1871 Fulton
 Hamma, William, 2710 Atlantic av
 Hanrahan, Michael, 307 40th
 Hansen, Chas. C., 251 39th
 Harley, Jas., 288 Flatbush av
 Harrington, Thomas, 334 De Kalb av
 Harrickey, Thomas J., 124 Stone av
 Hart, Michael J., 162 Sackett
 Hartigan, Wm. P., 306 Albany av
 Hartisch, Eugene, 463 Central av
 Hayward, Edwin, 150 Flatbush av
 Healy, John P., 105 Atlantic av
 Healy, Martin & Son, 7 Putnam av
 Heaney, James A., 576 Warren
 Heepe, Richard, 451 7th av
 Henry, Alfred, 317 7th av
 Herman, David, 109 Thatford av
 Hess, Fred'k, 867 Flushing av
 Hess, William, 335 Floyd
 Hetteshelmer, William, 857 Grand
 Hildebrand, Anthony J., 59 Wolcott
 Hill, Charles, 63 Flatbush av
 Hill, Wm. A., 27 Ashland pl
 Hill, William J., 88th nr 3d av
 Hobbs & Sheehan, 820 Gravesend av
 Hoehn, Hugh J., 88 Richards
 Hoffman & Evans, 584 Wythe av
 Hogan, Frank, 4620 5th av
 Hoppe, Charles A., 5911 New Utrecht av
 Horan, John, 145 Rockaway av
 Horsley, Wacey R., 157 Court
 Howe, John, 77 Lawrence
 Hudson, Walter T., 411 Nostrand av
 Hughes, John W., 216 Miller av
 Hull, Wm. W., 12th av nr 40th
 Hurwitz, Abraham, 24 Thatford av
 Hutchins, Robert B., 43 B'wick av
 Hutchinson, Fred. A., 334 Myrtle av
 Ireland, P. H., 278 Myrtle av
 Irwin, Thomas J., 693 6th av
 James, George S., 1088 Fulton
 James Bros., New Utrecht av nr 58th
 Jaquiss & Lawless, 506 3d
 Jarman, George E., 67 S 8th
 Jeffries, Eugene, 2520 Atlantic av
 Johnson, Jas. H. & Son, 395 Court
 Johnson, Louis, 37 4th av
 Johnson, Samuel, 2098 Nostrand av
 †Johnson & Co., 1477 Flatbush av
 Johnston, Geo. B., 987 Flatbush av
 Jones, Frank, 204 Division av
 Julien, Francis, 167 Hudson av
 Jung Bros., 998 Broadway
 Kane, John, 35 Ross
 Kaplan, Harris, 74 Humboldt
 Kaplan, Wolf, 144 Thatford av
 Kaufman, Leon, 169 Boerum
 Kay, George J., 1217 Gates av
 Kayfetz, Herman, 44 Amboy
 Keating, Geo. H., 635 Wythe av
 Keegan, John C., 849 De Kalb av
 Keegan, William, 319 Graham av
 Keegan's, William Sons, 634 3d av
 Keenan, Jas. J., 39 Raymond
 Keenan, James & Son, 948 Fulton
 Keenan & Mead, 1233 Atlantic av
 Keller, Frank, 187 Hamburg av
 Keller, Frederick, 258 Sumner av
 Keller, Fred'k W., 1806 B'way
 Kelly, Eugene S., 758 Myrtle av
 Kelly, James I., 91 Ralph av
 Kelly, John, 19 Hicks
 Kelly, Thomas, 681 Gates av
 Kelly, Thos. J., 1937 Dean
 Kelly, Wm. J., Ocean Parkway c Beverly rd
 Keogh, Edward, 482 Court
 Kiely, R. J., 104 Atlantic av
 Kilian, Joseph P., 458 De Kalb av
 King, Philip F., 260 Halsey
 Kinsella, W. J., Sheephead Bay rd c
 Kirchner, Fred., 441 Met. av Jerome av
 Klein, Fred'k, 50 Woodhull
 Kleinau, Aug., 880 Myrtle av
 Klinge, Julius E. & Son, 248 St. James pl
 Kloras, Michael, 186 Boerum
 Kraemer, George, 57 Hamburg av
 Kramer, Fred. C., 460 B'wick av
 Kravet, Harry & Bro., 304 Ellery
 Kreiner, Wm. H., 94 N 1st
 Kunz, Fred'k, St. Marks av c Utica
 Lahey, Timothy, 237 Hoyt

Lamb, Geo., 500 Pacific
 Lambert, Eugene A., 182 De Kalb av
 Lampard, Geo. T., 528 Central av
 Lane, Nathaniel H., 385 Nostrand av
 Lannig, Jos. J., 264 Hamburg av
 Larkin, F., 300 Court
 Larsen, George O., 883 4th av
 Lauhe, Julius, 462 Gilmore av
 Leach, Francis, 1101 Fulton & 441 Lewis av
 Lehmann & Miller, 806 Nostrand av
 Leinfelder, Bernhard, 212 Bradford
 Lengenfelder, George, 36 Sumner av
 Lennon, Hugh J., 765 Fulton
 Lewis, Wm. J., 660 Fulton
 Lider, Barnett, 115 Seigel
 Lieb, Henry, 125 Osborn
 Linbarger & Henning, 1192 Bedford av
 Lindahl, Peter, 346 6th
 Lockwood, John, 207 De Kalb av
 Loeble, Fred. C. & Son, 702 Gates av
 Loehr, Herman H., 205 Hamburg av
 Lohse, William, 927 Myrtle av
 Lowe & Gallagher, 766 Marcy av
 Luhrs, Louis H., 260 Heyward
 Lynch, Chas. A., 671 Herkimer
 Lyon, John E., 1506 B'way
 McArdell, John W., 138 Jay
 McBride, J. J., 558 4th av
 McBride's, Bernard J. Sons, 150 York
 McChesney, Richard H., 86 Ft. Greene pl
 McCormack, Jas., 309 Bedford av
 McCormick, Edw. L., 341 Clifton pl
 McCormick & Knox, 105 Broadway
 McCordden & Matthews, Couklin av nr E 94th
 McCue, James J., 1800 Fulton
 McCullagh, John N., 287 18th
 McDonald, William, 83 Cranberry
 McEnaney & Cathers, 175 Division av
 McEntee, Patrick, 985 Gates av
 McGarvey, Alex., 140 Vanderbilt av
 McGee, Geo. S., 255 Court
 McGovern, John E., 137 Ryerson
 McGrath, M. J., 809 Fulton
 McGuinness, Jas. C., 606 Fulton
 McIntosh, Ernest & Co., 647 Fulton
 McKenna & Hamilton, 351 7th av
 McKeon, Patrick H., 211 Classon av
 McManus, James, 96 Dikeman
 McMullen, Patrick, Lawrence av nr Ocean
 McNamara, Edw., 155 B'way Parkway
 McNeill & Collins, 160 7th av
 Macdonald, Ed., 98 Cedar
 Madden, Thomas J., 131 Atlantic av
 Maher, John F., 101 S Portland av
 Malone, M. A., 642 Nostrand av
 Maloney, Martin F., 1091 Atlantic av
 Manneschmidt, Jacob, Jr., 966 Myrtle av
 Mantel, Charles, 304 Bedford av
 Manneschmidt, J., 966 Myrtle av
 Mark, Andrew, 84 Morgan av
 Mark, G. J., 150 Wyckoff av
 Marrin, H. J., 309 Atlantic av
 Marshall, George F., 115 S 3d
 Martin & Benas, 2 McDonough
 Marx & Harper, 6808 New Utrecht av
 Matthews, Edward, 2643 Fulton
 Matthews, John T., 288 Division av
 May, Matilda, 577 6th av
 Mayerhofer, John F., 2931 Fulton
 Meehan, James J., 494 Myrtle av
 Meehan, Joseph P., 631 Vanderbilt av
 Meeks Bros., 5114 5th av
 Meng, Geo. P., 3 Hull
 Mentzinger, Christian F. & Son, 356 B'way
 Mentzinger, Theo. D., 216 Broadway
 Meyer, Hy. W., 71 Eldert
 Meyers & Miller, 491 Stone av
 Millea, Jos. M., 2748 Atlantic av
 Miller, J. A. & T., 209 Prince
 Minden, David, 305 Wvth av
 Minus, W. J. & A. E., 349 Court
 Mitten, Charles, 3d av v 86th
 Moran, Edward P., 5605 5th av
 Moran, Thomas A., 68 Myrtle av
 Morgan, Wm. I., 353 Tompkins av
 Morris, John, 133 Ralph av
 Motzer, Wm., 3d av nr 73d
 Moylan, John J., 399 Classon av
 Moyles, Margaret, 160 Lee av
 Muller, Edw., 712 Evergreen av
 Muller, H. E. & Son, 171 Court
 Muller, John P. & Son, 27 Willoughby
 Mulligan, Martin F., 4012 New Utrecht av
 Mullin, Thos., 362 De Graw
 †Murchison, J. R., 823 Flatbush av
 Murray, Matthey W., 886 Pacific
 Nechamkus, D. & Gayer, H., 2 Throop av
 Nesselowitz, Lena, 175 Osborn
 Nixon, Wm. J., 167 7th av
 Noble, H. M., 434 Tompkins av
 Nolen, Wm. F., 319 Baltic
 Oberteuffer, Ed. M., 317 Nostrand av
 O'Brien, Frank L., 632 Myrtle av
 O'Brien, John F., 740 4th av

O'Brien, Thos. E., 508 3d av
 O'Connell, Edw. J., 232 Sumner av
 O'Dougherty, F. C., 24 Columbus pl
 Oettlin, Gustav, 792 Gates av
 O'Ilare, John T., 4814 3d av
 O'Keefe, Wm. C. & Son, 5506 3d av & 467
 Olches, Albert G., 57 Bergen 5th av
 Olches & Helk, 5405 5th av
 Oliver, Frank S., 616 Kosciusko
 O'Mara, John J., 1385 B'way
 O'Neill & Chambers, 103 Willoughby
 Osthimer, William H., 385 7th av
 Oswald, Jos. P., 636 Liberty av
 Overton, William H., 77 Sands
 Pardue, H'y T., 141 Pulaski
 Parshall, E. V., 5416 3d av
 Parsons, Henry W. B., 328 Tompkins av
 Paterson, John, 370 Myrtle av
 Paterson, John P., 1204 Fulton
 Pearce, John W., 209 Linwood
 Peavy Bros., 497 Franklin av
 Pesca, Joseph, 222 Liberty av
 Pfadenhauer, John, 181 Stagg
 Pfeiffer, Martin, 2454 Pitkin av
 Pieper, John V., 341 Hamburg av
 Piercy, Wm. J., 96 Reid av
 Pitt, Wm., 69 6th av
 Platner, Ferd., 678 Grand
 Polatschek, Isaac, 117 Meeker av
 Poole, Wm. C., 227 Lewis av
 Pone, Wm., 260 Prospect
 Pope, Wm., Jr., 438 6th av
 Poppe, James E., 184 Frost
 Preiss, Louis & Co., 281 Evergreen av
 Purcell, Benj. T., 3d av n 74th
 Quick, Hewlings II., 577 De Kalb av
 Quick, Louis E., 1516 Flatbush av
 Radcliffe, Thos. H., 793 Flatbush av
 Read, John H., 156 Gates av
 Reek, Edmund H., 870 Met. av
 Reeves, Chapman S., 1390a B'way
 Reilly, Hugh, 1027 De Kalb av
 Reilly, John A., 1609 Fulton
 Reiners, Geo. E., Bay 19th n Bath av
 Resch, Victor F., 628 Evergreen av
 Rice, John, 369 Halsey
 Rlese, Geo., 38 Skillman av
 Riker, Fred. H., 160 Ralph av
 Riker, Wm. E., 973 Gates av
 Robins, C. Son, 1361 Fulton
 Robins, H. W., 1361 Fulton
 Robins, Samuel C., 331 Lewis av
 Robinson, Hy. J., 371 Graham av
 Roche, Wm. J., 64 Henry
 Rogers, Chas. F., 344 Hamburg av
 Rogers, James, 415 Tompkins av
 Rogers, Wm. H., 117 S 8th
 Rogers Bros., 1222 St. Marks av
 Roper, Thos. J., 5711 5th av
 Rosenthal, Jos., 274 B'way
 Rosenthal, Joseph, 7721 3d av
 Rothart, H. P., 4 Eldert
 Rowan, James J., 698 Gates av
 Rowan, W. H., 745 Gates av
 Ruegamer & Auer, 793 Myrtle av
 Buscher, Ernest, 1075 Halsey
 Russell, D. M., 651 Wythe av
 Russell, Robert B., 145 Driggs av
 Rutz, C. & Son, 1467 Myrtle av
 Ryan & Miller, 310 Van Brunt
 Salt, Thomas, 15 Tillary
 Samuel, Henry J., 36 Reeve pl & 24 Sher-
 Sands, John W., 5808 5th av
 Scally, Edward H., 527 Henry
 Sattily, Chas., 1664 Pacific
 Schantrech, Frank, 702 Lafayette av
 Schear, Harris, 286 Sackman
 Schenk, Henry F., 180 Montrose av
 Schirrmeister, Andrew, 18 Central av
 Schirrmeister, John, 137 Cooper
 Schirrmeister, Wm., 3021 Fulton
 Schidling & Caddo, 1394 Myrtle av
 Schmidt, Gustav A., 344 Liberty av
 Schoeppler, Chas. M., 1262 Gates av
 Schroeder, George, 810 Fulton
 Schwartz, Wm. S., 187 Harrison av
 Schwaeker, Charles & Bro., 207 Court
 Scott, John M., 2926 Atlantic av
 Scott, Jos. C., 8 Covert
 Scott, Wm., Jr., 859 Union
 Seaman, Walter C., 30 Troy av
 Seebeck, Charles, 456 6th av
 Seibert, Andrew & Bro., 1561 Myrtle av
 Seldensticker, Hy. W., 184 Willoughby
 Seinoth, Louis, 1556 Fulton
 Shanley, Louis J., 156 High
 Shaplo, Benjamin, 242 5th av
 Shapiro, Philip, 150 Throop av
 Sharkey, John, 42 Rockaway av
 Shea, David, 329 Franklin av
 Sheehan, Wm., 200 Greenpoint av
 Shelly, Edward F., 264 Bergen
 Sheppard & Kellett, 129 Atlantic av
 Shuttleworth, Wm. H., 597 Gates av

Sibree, Jos. P., 1194 B'way
 Sichel, Adolph, 783 Grand
 Sidney & Co., 1716 Fulton
 Silberman & Miller, 509 Stone av
 Simon, Philip, 38 Seigel
 Simpson Bros., 456 Court
 Sinclair Bros., 535 Vanderbilt av
 Sleeper, Wm. H., 1040 Broadway
 Smith, Geo. A., 99 Pineapple
 Smith & McGulre, 2887 W 15th
 Smith, Lionel M., 1095 Bedford av
 Smith & Theis, 65 Lawrence av
 Smith, William, 811 Manhattan av
 Smith, Wm. F., 719 Herkimer
 Smyth, Geo. W., 684 Fulton
 Snedeker, Wm., 279 Graham av
 Sopher, Henry F., 655 Liberty av
 Spenke, Wm. H., 384 17th
 Spitzer, Samuel, Sea Breeze av nr W 5th
 Stader, Isidor, 74 Leonard
 Starcke, H. A., 241 Central av
 Steif, Harry, 435 Rockaway av
 Stone, David, 404 Bushwick av
 Stone, Simon, 306 Bushwick av
 Stoughton, Jas. C., 38 3d av
 Strohm, Chas. & Sons, 344 Atlantic av
 Sullivan, Dan'l F., 3d av nr 79th
 Sullivan, Jas. F., 821 Gates av
 Sutphin, James G., 646 Mhahn. av
 Swan, R. & S. T., 336 B'way
 Sweeney, Jas. E., 375 Atlantic av
 Swift, Wm. H., 98 Park av
 Tallent, Henry T., 964 Kent av
 Tate, Robert W., 1230 B'way
 Tate & Polata, 8 Tompkins av
 Teaken, T. J., New Utrecht nr. 57th
 Terry, David E., Jr., 242 Linwood
 Thatcher, Jas., 275 Bridge
 Thoma, Chas., 118 Adams
 Thompson, Frank, 196½ Flatbush av
 Tiebout, Edward, 760 Manhattan av
 Tlerney & Lynch, 1772 Fulton
 Till, William F., 901 Flatbush av
 Tilly, Chas. A., 754 Nostrand av
 Timms, Frank T., 109 4th av
 Tracy & Heslin, 861 Bedford av
 Traey, Jas. A., 248 Smith
 Troy, Wm. S., 160 Penn
 Tuohy, Patrick J., 476 Sumner av
 Turner & Whitford, 411 Nostrand av
 Tweed, John E., 1767 Fulton
 Unterreiner, John, 480 Bushwick av
 Valentine, Conrad, 1195 Myrtle av & 654
 Bushwick av
 Vaughan Bros., 829 Flatbush av
 Veith, C. W., 640 4th av
 Victors, Peter, 182 S 2d
 Voelbel, E. J., 187 Clymer
 Vogelbach, John B., 378 S 1st
 Volckmer, William R., 330 45th
 Volz, George, 46 Hamburg av
 Wagner, Wm. P., 599 Bushwick av
 Wahl, John, 13 Thams
 Walker, Henry, 3 Reid av
 Walker, Wm. F., 132 Park av
 Walsb, John J., 468 Myrtle av
 Walsh, Stephen, 2258 Pitkins av
 Warren, Robt., 336 22d
 Watson, Wm., 313½ Grand av
 Wedge, Alfred H., 669 Nostrand av
 Weisbrod, Max J., 5 Cook
 Welch, Robt., 260 Nostrand av
 Wexler, A. Plumbing Co., 637 Metropolitan
 Whalen, Frank S., 663 Franklin av
 Wichmann, Henry, 343 Central av
 Williams, Geo., 917 Fulton
 Williams, Henry, 508 B'way
 Williams, Wm. E., 766 Fulton
 Williams, C. W. & Son, 1021 Lafayette av
 Wood, George, 284 Reid av
 Wood, Jas. R. H., 73 Clymer
 Woods, Thos. H., 415 Hudson av
 Wright, Andrew L., 1723 Fulton
 Wyburn, J. F., 844 Gates av
 Young, Robert, 249 Nostrand av
 Zimmerman, Carl, 551 Graham av
 Zimmerman, Jos., 193 Throop av
 Zimmerman & Demmerle, 115 Hamburg av
 & 361 S 4th

Boroughs of Manhattan & Bronx

NEW YORK—Ackerman, Chas. C. W., 1362
 Webster & 250 Brook av
 Ackerman, Wm., 588 E 143d
 Ackerman, Wm., 300 W 121st
 Addenbrooke, Samuel, 150 W 4th
 Ahrens, Jacob J., Edgcombe rd nr W 170th
 Akst, Sigmund, 1422 Madison av
 Allan, Wm., 203 E 15th
 Altman, Henry, 203 E 15th
 Andreini, Joseph, 449 W B'way
 Andrews, Geo. A., 3164 3d av

Angus, Adam, 827 Columbus av
 Arkison, J. T., 777 E 178th
 Armstrong, Jas., 52 Dey
 Auerbach, Chas., 653 E 140th
 Auskulat, Herman, 1154 3d av
 Auty, Frank, 356 W 24th
 Bach, William, 435 E 82d
 Badum, J. E., Fillmore, Van Nest
 Bally, Wm., 771 Columbus av
 Baltes, Fred., 203 Forsyth
 Balze & McConaghy, 318 W 21st
 Bannon, Francis M., 16 Marion
 Banta, Stephen S., 55 Carmine
 Barandon, Geo., 311 Amsterdam av
 Barblg, Edw., 900 3d av
 Barfiel, M., 25 Rivington
 Baris, Michael, 504 W 39th
 Barnett, Chas. W., 118 W 26th
 Baron, Michael, 147 W B'way
 Barrett, Thomas, 463 3d av
 Barry, Richard J., 319 E 59th
 Barth, Ignatz J., 110 University pl
 Barth, Max, 13 Pitt
 Bartheld, Wm. F., 223 E 53d
 Baum, J., 730 Columbus av
 Baumgartner, John, 581 11th av
 Baxter, Samuel, 34 Canal
 Beacher, Joseph, 65 Norfolk
 Beck, Chas. & Bro., 598 9th av
 Beck, Geo. H. & Son, 1515 1st av
 Beck, Wm., 979 3d av
 Beckert, John H., 2061 Madison av
 Begen Bros., 301 W 140th
 Beik, John, 311 Willis av
 Bellak, Jacob, 357 2d av
 Bellon, Nicholas, Columbus av, Van Nest
 Bender, James T., 138 E 56th
 Bendell, Hy., 252 St. Nicholas av
 Berg, Albert, 1193 3d av
 Berg, Henry, 2233 2d av
 Bergman, Abram, 45 Jeff
 Bergman, Louis F., 104 W 25th
 Berkman, Abraham, 168 Clinton
 Berkman, Abram, 30 Pike
 Berman, Bernard, 261 Henry
 Bernesser, Vincent F., 691 E 155th
 Bernsteln, Paul, 417 Grand
 Betts, Chas. H. G., 148 E 18th
 Beyrodt, Alfred, 1048 E 156th
 Blerbaum, Joseph, 53 Bond
 Biese, Edw., 204 Wooster
 Bilz Wm. C., 430 E 72d
 Bingham, Wm. H., 2415 B'way
 Birdsell, Henry, 2627 8th av
 Bishop's, Wm. Sons (Shlp Plumbers), 205
 South
 Blitz, Chas. J., 55 Columbia
 Black, Jacob, 20 Chrystie
 Black, James, 703 E 165th
 Black, Lazarus, 80 Essex
 Black, L. & Bro., 148 Clinton
 Blackburn, Alfred, 1677 Amsterdam av
 Blake, Philip, 336 Hudson
 Blaustein, Aaron B., 249 E 10th
 Bleiberg, Julius, 170 Suffolk
 Bligh & Engel, 410 4th av
 Bloch, Joseph, 209 E 76th
 Block, Louis, 1803 Lexington av
 Bode, Jos., 2351 Bathgate av
 Bolger, Paul S., 378 Park av
 Bollender, P. H., 904 Amsterdam
 Bormann, Oscar, 1585 3d av
 Borst, John F., 407 E 77th
 Boss, William, 304 E 98th
 Bossert, Samuel A., 437 Lenox av
 Boswell, Michael F., 263 W 125th
 Bowker, Alfred, 694 8th av
 Bowsky, Harry F., 164 E 52d
 *Boyd Equipment Co., 90 West
 Boyd, John, 274 Columbus av
 Boyle, Edw. F., West Farms rd, W'tchester
 Bracken, Jas. P., 610 10th av
 Brady, Edw. J. Co., 79 Warren
 Brady, Philip, 863 6th av
 Braender's Automatic Cellar Drainer, 143
 Braennig, Max, 231 E 89th W 125th
 Braunstein, Julius, 14 W 117th
 Breen, Wm. J., 963 E 184th
 Brennan, Francis J., 352 E 177th
 Brenner, Isaac, 143 1st av
 Brenner, Wm., 83 Bleecker
 Breuning, Augt. P., 354 E 84th
 Briggs, E. A., 141 W 125th
 Britz, Michael H., 998 2d av
 Brownfield, David, 235 Stanton
 Brown, Aaron, 264 8th av
 Brown, Andrew H., 726 Lexington av
 Brown, Geo. B., 76 E 125th
 Brown, Isaac J., 1221 Lexington av
 Browne, Wm. F., 254 W 23d
 Brutton, John W., 301 W 30th
 Bryan, Wm., 220 W 48th
 Bryan, Wm. D., 2792 3d av

Bryant, Alexander Co., 1 Madison av
 Buchanan, John, 952 6th av
 Buchwald, William, 1455 3d av
 Buge, Bernhard A., 439 E 14th
 Bunning, H'y, 25 E 10th
 Bur, Emil A., 39 E 8th
 Burbridge & Bro., 232 8th av
 Burke, Thos. F., 187 Columbus av
 Burns, James F., 1931 Amsterdam av
 Buser, Fred'k A., 1341 Tremont av
 Butcher, Robert E., 80 Av D
 Butler, James, 13 Manhattan
 Byrne, Thomas J., 377 4th av
 Byrne, Thomas J., 279 E 10th
 Byrne & Murphy, 890 Park av
 Byrnes, Michael, 401 W 53d
 Byrnes & Brady, 445 7th av
 Byrns, John, 734 Lexington av
 Cahn, Benj., 1353 5th av
 Callaghan, Francis, 201 E 33d
 Callaghan, John, 1409 Lexington av
 Callahan, Matthew J., 158 Varick
 Callahan, Thomas A., 7 W 14th
 Callan, John, 503 W 42d
 Callan, John H., 2460 7th av
 Campbell, Alexander M., 58 W 21st
 Canavau, Michael, 112 W 100th
 Carber & Carber, Main, Westchester
 Carl, Jacob, 12 Carmine
 Carlier, Louis, 750 6th av
 Carlson, Fitzpatrick & Co., 631 E 138th
 Carmichael, Colin S., 493 9th av
 Carmichael, Robt., 432 7th av
 Carroll, George, 277 W 117th
 Carroll, J. E., 261 W 25th
 Casazza, Angelo, 169 Worth
 Casey, James, 251 W 49th
 Casey, Lawrence, 1889 Crotona av
 †Cash, Daniel M., E 220th nr 4th av,
 Williamsbridge
 Caslin, J. M., 139 Centre
 Celia, Frank, 303 E 115th
 Chute-Thornton Co., 5 E 14th
 Ciaffone, Lorenzo, 112 Thompson
 Clark, B. J., 1905 Lexington av
 Clark, William G., 438 W 40th
 Clayton, Patrick J., 164 E 84th
 Cleary, Michael E., 1061 1st av
 Clemens, Frank, 44 E 8th
 Clifford, Michael, 108 Trinity pl
 Clinchy, Thomas, 134 E 31st
 Clunc, Daniel J., 236 E 42d
 Cobb, Frank, 176 Greenwich
 Cochenour & Hazen, 162 W 116th
 Cochran, Thos. & Son, 222 W 36th
 Coffey & Coleman, 1221 Park av
 Coban, Max, 885 1st av
 Cohn, Jacob, 192 Wooster
 Collings, Alexander, 300 W 68th
 †Collins, J. G., 175 E 116th
 Commerford, Patrick J., 989 Columbus av
 Coudren, Wm. J., 409 E 18th
 Conklin, W. J., 164 W 29th
 Conlan, Jas., 1034 E 180th
 Connell, John J., 86 New Chambers
 Connolly, Francis, 546 2d av
 Connolly, Thomas, 74 W 38th
 Couran, Wm. F. & Son, 305 Pearl
 Cook, Wm. J., 2756 8th av
 Cooke, Jas. J., 81 E 52d
 †Cooney, John W., 355 W 26th
 Cooper, Jacob H., 904 8th av
 Cooper, Jos., 2027 2d av
 Cooperson, Louis, 26 Suffolk
 Copman, Chas., 444 2d av
 Corker, S. J., 134 E 109th
 Corley & Owell, 325 W 54th
 Costello, Owen, 253 E 61st
 Coyle, Wm. & Jos., 1050 Park av
 Coyle & Baaden, 81 Maiden la
 Cranston, Rosina, 93 W 134th
 Creasy, George H., 1122 Lexington av
 Creeden, John D., 206 Amsterdam av
 Crotty, John F., 232 E 121st
 Crotty, William, 4770 3d av
 Crowell, Sam'l C., 1212 3d av
 Crowley, Fred'k D., 71 4th av, W'msbridge
 Cuffy, J. S. & Co., 102 W 105th
 Cummings, Richard, 385 Hudson & 2073
 Cummins, Thos. J., 1035 3d av 7th av
 Cunningham & Bradley, 2460 B'way
 Curtin, John, 129 W 28th
 Curtis, Geo. E., 1104 Lexington av
 Daley, Thos. J., 1688 B'way
 Dalton, John F., 1745 Amsterdam av
 Daly, Dennis F., 167 W 31st
 Daly, Philip, 809 6th av
 Damm, J. H., 301 W 133d
 Dan, Abraham, 133 Madison
 Darling, Geo. A., 16 8th av
 Darmstadt, Chas. H., 229 W 116th & 183
 Davis, Charles, 176 2d W 24th
 Deady, Daniel J., 105 W 97th

Deady, J. J., 1155 B'way
 Deckinger, J., 138 E 73d
 Deering, James A., 957 Forest av
 De Graw Frank C., 272 W 131st
 De Graw & Corcoran, 2280 B'way
 Deigan, David, Jr., 27 E 135th
 Delaney, D. L., 590 Fordham rd
 Delaney, Jas. J., 300 E 20th
 Delaney, Jeremiah J., 467 4th av
 Delehanty, John J., 696 2d av
 Deffing, Stephen, 852 Amsterdam av
 Dellon, George, 1787 Lexington av
 Demarest, Geo. W., 501 W 148th
 Deutsch, Jos., 517 5th
 Devine, John H., Jr., 1114 E 165th
 DeVoe, H. B., 515 Columbus av
 Diamond, J. & Son, 436 6th av
 Diamond Bros., 318 8th av
 Dickinson, Patrick F., 587 Amsterdam av
 Diehl, L. & C., 301 E 88th
 Dietz, Henry, 248 E 119th
 Dodds, Wm. J., 363 Pearl
 Doellner, William, 360 W 69th
 Doernberg, Milton J., 93 St. Nicholas av
 Donnelly, Frank, 480 Amsterdam av
 Donnelly, Gerald, 365 W 22d
 Donohoe, B. F., 1112 Park av
 Donohue, Matthew F., 2564 B'way
 Donohue & Goeltz, 231 E 28th
 Donovan, James J., 101 E 79th
 Donovan, John E., 117 W 26th
 Doody, Christopher J., 451 Columbus av
 Dooley, Peter, 300 W 55th
 Dorn & Bro., 181 7th
 Dotzler, Frank J., 244 3d
 Dowling, John J., 244 E 106th
 Downey, Edw., 543 E 85th
 Downey, Jos., ft Schuyler rd, Throggs
 Downey, William, 204 E 22d Neck
 Doyle, Peter, 877 9th av
 Drennan, Robert, B'way c Hawthorne
 Druck, A., 13 Forsyth
 Ducey, John F., 1960 B'way
 Duffy, John J., 214 10th av
 Duffy, Jos. D., 150 E 23d
 Duffy & McConnell, 132 E 17th
 Dumey & Katz, 164 E 110th
 Duncan, Geo. C. & Co., 101 Prince
 Dunker, Wm., 578 10th av
 Durand, Fred'k, 693 E 138th
 Duril, David, Jr., 1965 Webster av
 Durkin, Luke J., 1075 3d av
 Dyer, John, 14 W B'way
 Eberhart, Frank, 1462 1st av
 Edgar, Robert, Jr., 429 Hudson
 Edmiston, Henry M., 1370 Av A
 Egarter, William, 1623 Madison av
 Edzant, Louis, 242 Madison
 Eich, Edw. L., 956 E 165th
 Eich, Philip, 1412 2d av
 Eichenbaum Bros., 61 3d
 Eisenberg, Louis, 14 Market
 Eisner, Morris, 625 E 9th
 Elgar, John H., 477 9th av
 Elkan, Julius, 1404 3d av
 Elliott, J. P. & Bro., 170 E 96th
 †Ellison & Co., 211 W 126th
 Emminger, Chas. R., 934 6th av
 Engel, Jacob, 44 Suffolk
 Engel & McMahon, 29 St. Marks pl
 Epstein, Julius, 118 Madison
 Epstein, Morris, 161 Orchard
 Erb & Mattocks, 868 Amsterdam av
 Erfort, George F., 452 W 37th
 Essig, Geo. I., Jr., 37 Hancock pl
 Euvard, Louis J., 65 Spring
 Eynon, Geo. H., 51 Grove
 Fabre, Paul, 203 W 25th
 Fagus, Julius, 2124 2d av
 Fahy, Jas. E., 525 Amsterdam av
 Fajans, Julius, 773 Melrose av
 Fafihee, John J., 203 W 82d
 Falky, John J., 56 Carmine
 Fallon, Charles, 570 W 150th
 Fallon, John, 39 Greenwich
 Faltin, Louis M., 1355 1st av
 Farkas, Louis, 233 2d
 Farrell, Edward J., 447 E 149th
 Farrell, Henry, 2265 Bathgate av
 Farrell, J. P., 61 Ann
 Fash, Chas., 190 7th av
 Fay, Edward, 305 Av C
 Fay's, James Sons, 101 W 66th
 Fecher, Samuel, 130 Norfolk
 Federoli, Rudolph, 267 W 35th
 Fee, Frank J., 365 9th av
 Fehlinger, Jacob, 287 1-2 Bowery
 Fehlinger, Nicholas, 16 N William
 Feldman, J. M., 97 Christie
 Ferrara, Joseph, 221 E 107th
 Ferry, Francis H., 2289 2d av
 Fetzer, Leonard, 15 York
 Fimian, John M., 1748 Amsterdam av

Finegan, James H., 801 E 161st
 Finn, Bernard W., 10 Prince
 First, Herman, 1572 Lexington av
 Fischbeck & Sallwey, 870 9th av
 Fischer, Reuben, 290 2d
 Fischer, W. H., 305 W 123d
 Fisher Bros., 12 Morris
 Fisher, Geo. H., 1685 Lexington av
 Fisher, Robert H. B., 187 9th av
 Fitzgerald Bros., 89 James
 Fitzgibbon, Gerald, 109 Canal
 Flach, Thos., 3395 3d av
 Flanagan, Francis, 163 E 54th
 Flanagan, Thos. J., 35 Jane
 Fleming, John J., 111 W 128th
 Flood, Eug. J., 682 6th av
 Flood, Geo. W., 203 E 62d
 Flynn & Katz
 Fogel, Morris, 146 Attorney
 Foley, James, 485 Columbus av
 Ford, John, 164 W B'way
 Forster, W. D. & Co., 80 W 90th
 Foster, Benj. J., 250 W 35th
 Foster, Geo. W., 1725 Park av
 Foulis, David, 261 W 118th
 Fowler, W. J. Co. (Inc.), 201½ W 131st
 Fox, Bernard J., 547 3d av
 Fox, J. & P., 747 Wendover av
 Fox, Morris, 416 E 10th
 Fox, Thomas F., 472 4th av
 Francis, W. H., Jr., 745 Melrose av
 Frankenstein, Wolf, 40 W 3d
 Fraser, F. L. & Co., 216 W 23d
 Fredrick, Chas. H. G., 967 1st av
 Freitag Bros., 3485 3d av
 Frey, Matthew, 231 E 29th
 Friedlander, Samuel, 48 W 116th
 Friedman, Abraham, 25 E 115th
 Friedman, Marcus, 685 Columbus av
 Friedman, Maurice, 2266 7th av
 Friedman, Morris, 363 Madison
 Friedman, Samuel, 134 Broome
 Fries, John, 402 Broome
 Fruesen, Frederick, 273 W B'way
 Frusetta, John, 433 W 49th
 Fuchs, Isidor, 412 E 86th
 Fuchs, Sigmund, 208 E 81st
 Fullen & Lyon, 1710 Amsterdam av
 Gabriel, G. & Sons, 16 Pike
 Gallagher, J. E., 69 E 10th
 Gartner, Geo. J., 409 E 14th
 Garty, Peter H., 267 W 123d
 Garvey, M., Webster av nr E 233d
 Gaskin, M. J., Tryon row, Westchester
 Gaynor, Thos. F., 550 Columbus av
 Geissler & Murphy, 96 Av A
 Gellert, David & Son, 5 Av D
 George, Samuel, 301 E 63d
 Gerber, Julius C., 208 6th
 Gerlach, August, 514 Broome
 Gerlach, John N., 431 W 36th
 Gill, John H., 105 Mercer
 Gilroy, James, 592 Park av
 Glnsberg, Louis, 78 Bayard
 Gluck, William, 631 2d av
 Glyn, James I., 2006 Bathgate av
 Godwin, John P., 2525 3d av
 Gold, Herman, 72 Lewis
 Goldberg, Abraham, 126 E B'way
 Goldberg, Abraham, 97 Suffolk
 Goldberg, Louis, 154 E B'way
 Goldberg, Michael, 70 Forsyth
 Goldberg, Otto, 595 Columbus av
 Golding, M. M., 1933 B'way
 Goldsmith, Herman, 262 E 4th
 Goldstein, Morris, 244 Division
 Goldwasser, Jacob, 1885 2d av
 Goodman, Otto, 73 E 116th
 Gordon, E. B. & Bro., 61 E 126th
 Gordon, Hyman, 131 Eldridge
 Gordon, Jas. F., 235 E 81st
 Gordon, John J., 103 W 131st
 Gorman, M. & Bro., 988 6th av
 Gorman, Thos. J., 126 William
 Gormlay, John, Westchester av, Westchester
 Gottlieb, Harry, 70 W 100th
 Graf, John, 154 Canal
 Graham & Murphy, 1845 Park av
 Gray, James, 86 Columbus av
 Gray, Wm. H., 175 E 123d
 Graziano, Rocco L., 50 Spring
 Grazier, P. M., 826 E 134th
 Green, Louis, 971 Columbus av
 Greenbaum, Charles, 235 3d av
 Greenbaum, Isaac, 91 Allen
 Greenberg, Simon, 127 Delancey
 Greenberg, William, 322 Madison
 Greene, Patrick, 1026 3d av
 Greenstein, Wolf, 529 E 13th
 Gress, John G., 171 E 92d
 Griffin & Prior, 566 W B'way
 Griffin & Seddon, 325 W 42d

Grimes, James, 108 Broad
 Grobholz, Peter & Co., 2213 8th av
 Grohman, Ilyman, 1990 2d av
 Gross, Joseph F., 151 W 31st
 Grundfast, Sam'l, 68 Washn. sq S
 Grundmann, T. A., 421 10th av
 Guerr, Louis, 168 Willis av
 Guinee, Patrick C., 134½ E 62d
 Guttman, Nathan, 534 2d av
 Guy, James, 403 Amsterdam av
 Haase, Wm. A., 450 E 79th
 Hach, Richard G., 358 3d av
 Hagen, Chas. J., 400 1st av
 Haggerty, Dennis F., 356 W 17th
 Hahn, John, 1940 7th av
 Hahn, John W., 1749 Park av
 Haldane & Davidson, 2347 Jerome av
 Hall, Thos., 243 8th av
 Hall & Boyle, 140 8th av
 Halloran, John J., 241 W 125th
 Halpin, John J., 2064 7th av
 Halpin, Matthew, 175 E 110th
 Halpin, Thos., 1274 Lexington av
 Hambrecht, Christopher, 25 Amsterdam av
 Hamhurger, Geo., 2609 3d av
 Hanlly, Jos. E. & Bro., 422 Canal
 Hanlgan, David F., 723 Amsterdam av
 Hanley, Thomas, 23 University pl
 Hanlon, Wm., 361 W 21st
 Hannemann, Andrew, 439 5th
 Harssen & Delaney, 300 E 20th
 Hartschuh, Adolph F., 378 2d av
 Hartwig, Walter, 708 Lexington av
 Haskell, Benj. F., 199 Varick
 Hassett & Peyton, 100 Maiden la
 Hay, F. W., 446 W 19th
 Hecht, F. J., 697 E 155th
 Held, Chas. A., 412 W 41st
 Hemlin, Harry, 952 Amsterdam av
 Henley, Milton, C., 1394 Lexington av
 Henningsen Bros., 707 10th av
 Hensle, Charles, 302 W 120th
 Hentze, Eng. E., 881 3d av
 Herman, Michael F., 144 W 19th
 Herrington, John J., 2858 8th av
 Hertel, Frank & Son, 1515 3d av
 Heslin, Robert E., 126 W 40th
 Heyn, Fred., 4 E 113th
 Hickey, John J., 2130 Lexington av
 Higgins, David S., 2341 Old B'way
 Higgins, W. J., 1985 B'way
 Hill, Wm. & Son, 618 6th av
 Hilly, Joseph E., 117 Perry
 Hinden, Samuel, 2 Rutgers pl
 Hindley, Thos. & Son, 819 6th av
 Hirsohn, Isaac, 5 St. Marks pl
 Hirt, Adolph, 2572 8th av
 Hlawatsch, Leo, 881 Tinton av
 Hoerter, John, 170 8th av
 Hoffman, D. C., 1378 Bristow
 Hoffman, Geo., 905 E 156th
 Hoffman, Ignace, 62 E End av
 Hogan, J. F., 1965 Hughes av
 Hohouser, Herman, 146 E 15th
 Holmes Plumbing & Contracting Co., 608
 Holtje, John, 449 W 38th Columbus av
 Hopp, Adolph, 177 E 105th
 Horton, Wm. S., 2630 B'way
 Hosford, Leonard D., 68 Beekman
 Hotz & Casey, 310 W 40th
 Howard, James, 112 Cedar
 Huber, Chas., 24 Pike
 Hughes, James J., 121 E 10th
 Hughes, Michael, 1662 2d av
 Hughes, Thomas, 39 E 9th
 Hughson, John, 135 Alexander av
 Huke, Edw., 2740 B'way
 Hurst, Wm., Lane av, Westchester
 Huston & Corbitt Co., 406 W 52d
 Hutchinson, A. R. Co., 136 E 57th
 Imhof, John, 1000 1st av
 Innes, Chas. E., 252 W 47th
 Irving, James A., 1106 Home
 Irwin, Richard T., 2018 Amsterdam av
 Isaacs, Morris, 1 Jefferson
 Ivans, Thomas J., 7 Cannon & 120 W 25th
 Jack, W. Y. & Co., 618 Lex av
 Jackson, Alfred E., 2437 8th av
 Jackson, Gustav, 31 Attorney
 Jacobs, Edward W., 96 Greenwich
 Jarcho Bros., 101 E 108th
 Jardine, Robert, 245 10th av
 Jasper & Goebel, 108 E 126th
 Jerman's, Thomas, Sons, 346 9th av
 Johnson & Gleason, 2057 7th av
 Johnston, J. R., 384 Amsterdam av
 Jones, Geo. H., 561 Grand
 Joseph, Harri's & Co., 1465 2d av
 Jullie, Wm. J. & Co., 203 Lex av
 Jung Bros., Park av nr E 172d
 Kaack, Robert A., 58 8th av
 Kahn, Samuel, 77 E 118th
 Kane, Jas., 302 E 55th

Kane, Martin J., 100 Lafayette
 Kaplan, Victor, 421 E 71st
 Karmiol, Louis, 241 7th
 Kashberg, E. & M., 138 E 73d
 Katz, Louis, 177 William
 Katz, Meier, 161 E 4th
 Katz, M. I., 50 E 108th
 Katz & Kanter, 241 Henry
 Kaufer, Theo., 1206 S Boulevard
 Kaufman, Ludwig & Co., 1475 Amsterdam av
 Kazemier & Uhl, 108 E B'way
 Kear, John, 519 W 43d
 Kearns, Chas. A., 369 E 123d
 Kearns, John J., 648 Amsterdam av
 Keefe & Avery, 183 E 70th
 Keefe & Murphy, 1154 Lexington av
 Keller, August E. (Also Ship Plumblng),
 Keller Bros., 228 E 83d 136 Beekman
 Keller, Conrad, 304 E 53d
 Keller, John, 89 Greenwich av
 Kelley, Jas. L., 950 Amsterdam av
 Kelly, Jas. F. Co., 373 Amsterdam av
 Kelly, Jos., 115 Greene
 Kelly, Owen E., 502 W 156th
 Kelly, Thos. J., 1934 Lexington av
 Kelly & Fleming, 1783 Amsterdam av
 Kennedy, John J., 991 Lexington av
 Kenney, John J., 135 W 24th
 Kenny, Michael J., 222 W 68th
 Kenny, P. F., 2291 B'way
 Kensler, C. A., 2081 Boston rd
 Kensler, F. J., 673 Elton av
 Keppel & Hansen, 426 4th av
 Kerner, Bernhard, 246 E Houston
 Kessler, Chas., 266 W 144th
 Kessler, Samuel, 1652 Park av
 Kessler & Jaffe, 139 Eldridge
 Kessler & Martinez, 1556 Av A
 Kiely, James W., 20 Mangin
 Kiely & Stahl, 1123 B'way
 Kiernan, Thomas A., 303 E 70th
 Kiernan, Wm. J., 161 Pearl
 King, Thomas B., 18 John
 Kirkwood, Thos., 415 Lexington av
 Klausman & Mayer, 2253 3d av
 Klein, Aaron, 537 6th
 Klein, Augt., 653 2d av
 Klein, Isaac, 294 Delancey
 Klein, Nathan, 583 Cortlandt av
 Klein, Samuel, 133 W 128th
 Klein, Simon, 159 E 110th
 Klein, Wm., 2308 1st av
 Kleindienst & Greif, 304 3d
 Kleinfeld & Schwartz, 128 2d av
 Kleinsinger, Frank, 85 Eldridge
 Kleinsinger, Max, 246 Division
 Klenert, Wm., 302 E 78th
 Klenert, Wm., 38 E 112th
 Klenk & Struss, 50 Greenwich
 Klenke, Theo. A., 1122 Madison av
 Klett, Martin, 713 E 148th
 Kling, Chas., 696 Columbus av
 Knaus, Geo., 690 Melrose av
 Knight, J. N. & Son, 221 W 49th
 Knight, Thos. H., 146 William
 Koch, John Plumbing Co., 163 6th av
 Koenig, C. C., 844 E 160th
 Koenigsberg, Morris, 23 Willett
 Kolbrener & Schwartz, 148 Suffolk
 Konig, Max, 241 E 75th
 Kopatz & Slavin, 336 E 4th
 Korinek, John, 1361 Av C.
 Kormann, John, 164 Av A
 Kotler, Louis, 53 Henry
 Kranichfeld, Chas. H., 258 Rivington
 Krause, August H., 200 St. Nicholas av
 Krellsheimer, Samuel, 207 E 107th
 Kretzler, Wm., 105 Maiden la
 Kroepke, Wm., 526 E 143d
 Kuhn, Peter, 184 E 123d
 Kuhnhardt, Paul, 306 E 53d
 Lacey, Richard J., 513 Grand
 Lachner, John A., 107 W B'way
 Lanahan, Stephen J., 60 Spring
 Lang, Morris, 2042 2d av
 Lange, John F., 529 W 48th
 Lasette & Murphy, 2267 B'way
 Latz, Herman, 247 E 55th
 Lanber, Albert, 521 W 45th
 Lauria, Pasquale, 244 Mott
 Lavelle, Sarsfield P. H., 233 E 28th
 Laverty, Frank J., 68 Beekman
 Lawlor, James S., 835 6th av
 Lawlor, Wm. J., 1 Carlisle
 Lawrence, Wm., 561 Hudson
 Leddy, Hugh, 171 E 51st
 Lee, Frank, 257 W 123d
 Lee, John J., 863 Columbus av
 Lefevre, Josiah P., 145 4th av
 Leibowitz, Abraham, 78 Chrystie
 Leidenthal, Henry, 1219 Lexington av
 Leier, Geo., Garden pl, Wakefield

Leonard & Houlahan, 1 W 142d
 Leonhardt, N. H., 226 E 76th
 Leshner, Samuel, 405 E 17th
 Levine, Abraham, 118 Forsyth
 Levine, Louis, 150 Monroe
 Levins, John P., 140 E 97th
 Levitt, Philip, 73 E 105th
 Levon, Abraham, 203 E 52d
 Levy, Lewis, 154 W 10th
 Levy, A. & Co., 62 W 115th
 Lewis, Leonard, 451 E 80th
 Lewis, Maurice W., 531 Hudson
 Lihers, A., 53 Canal
 Liebegott, Adam, 52 W 8th
 Lindsay, Josiah S., 233 E 35th
 Linke, Theo., 1555 B'way
 Linson, Wm. H., 372 Lenox av
 Lipshitz, Isaac, 60 Rutgers
 List, Alexander, 670 9th av
 Loden, Herman, 224 E 35th
 Loehle, G. E., 45 Grand
 Loewe Bros., 304 E 116th
 Lorber, Samuel, 480 E Houston
 Lorenzo & Byrns, 82 Madison
 Louis, Albert, 122 W 26th
 Lowden, Geo. W., 836 9th av
 Lowerre, Chas. H., 661 E 161st
 Lukacs, Alexander, 603 6th
 Lumline, Wm. L., 688 10th av
 Lunny & Handibode, 2555 3d av
 Lutz, Ernest, 471 Amsterdam av
 Lutz, Ferdinand, 210 Sullivan
 Lux, Herbert J., 1023 6th av
 Lyman, Chas., 219 W 68th
 Lytle, Samuel, 301 W 118th
 McAdam, John, 2153 B'way
 McAde, John Jr., 777 Wash'n
 McAuley, Thos., 1385 3d av
 McCahe, Edw. J., 574 2d av
 McCahe, E. J. & Co., 863 Park av
 McCahe, Robert, 344 W 42d
 McCann, Edward, 397 1st av
 McCann, Lawrence G., 688 Tremont av
 McCarron, John, 915 6th av
 McCarthy, Jer. J., 2051 Lex. av
 McCaul, Thos. F., 2367 3d av
 McCauley, Henry W., 907 6th av
 McClelland, Jas. H., 213 W 18th
 McComb, James, 604 8th av
 McConkey, Isaac S., 684 6th av
 McConnell, Louis, 1775 3d av
 McConnon, P. J., 200 9th av
 McCreery, Hugh, 224 E 57th
 McCullagh, James, 661 6th av
 McDermott, Joseph F., 1265 & 1878 Lex av
 McDermott, Roderick, 519 Lexington av
 McDermott, W. J., 93 Lexington av
 McDonagh, John J., 176 E 96th
 McDougal, Daniel, 303 W 129th
 McElravey, D. & Son, 920 8th av
 McEntee, Jas. D., 710 Columbus
 McEvily, John V. Co., 875 Tremont av
 McEvoy, H. J. (Inc.), 188 E 64th
 McGinley, James, 240 Spring
 McGowan, Hugh, 238 3d av
 McGowan, Roger, 432 W 38th
 McGrath, Daniel J., 980 2d av
 McGrath, Dennis J., 70 G'wich
 McGrath, John J., 162 W 27th
 McGuire, James, 1320 Boston rd
 McGuire, Jas. & Sons, 150 E B'way
 McGuire, Patrick J., 200 W 96th
 Melver, William, 225 W 10th
 McKee, Adam, 175 G'wich
 McKeon, J. F. & Bro., 882 Lexington av
 McKeon, Bartholomew, 903 6th av
 McKeon, Peter, 882 Lexington av
 McKnight, Robert W., 776 9th av
 McLaughlin, T. P., 639 6th av
 McLaughlin, Thomas, Inwood
 McLoughlin, Wm. B. (Est. of), 771 3d av
 McMahon, Thos. P., 461 Amsterdam av
 McManus & Welsh, 1901 Washington
 McMullen, John A., 170 E 118th
 McMurray, Alex., 1949 Amsterdam av
 McMurray, Charles W., 1668 Av A
 McSweeney, Joseph, 181 Hester
 McVeety & Black, 200 E 96th
 Mackay, David, Jr., Co., 246 8th av
 MacLean, Arthur E., 2386 8th av
 MacQuarrie, J. C. & Co., 593 Greenwich
 Madden, Jno., 298 Willis av
 Magaldi, Eugene, 358 E 113th
 Maher, Thos. F., 135 E 106th
 Mahoney & Klineck, 301 Mulberry
 Mahoney, Timothy, 866 Pelham av
 Maitland, E. H., 270 West
 Malcolm & Taylor, 627 Columbus av
 Malloy, Thomas, 178 E 85th
 Mandelbaum, Jacob, 16 Orchard
 Manns, George W., 56 Manhattan av
 Manz, Fred'k, 637 9th av

Marlin, Wolf, 303 E 101st
 Marine Plumbing Co., 890 Park av
 Marine Works, 31 Coenties
 Marino, Michael, 48 Sullivan
 Marquardt, Fredk., 316 E 14th
 Marron, Jno. J., 232 Columbus av
 Marsh, Robert, 3 Ridge
 Marsini, John L., 27 Madison
 Marta, Michael & Co., 479 W B'way
 Martin, George, 200 W 14th
 Martiu, Thomas, 156 W 17th
 Martin, William, 102 7th av
 Maslin, Joseph S., 344 W 16th
 Matzke, Morris, 422 E 16th
 Mauder, Charles T., 2053 8th av
 May, Arthur, 596 Water
 May, Eugene J., 75 Broad
 Mayer, Adam, 197 Orchard
 Mead, Samuel F., 753 7th av
 Meade, Patrick, 50 Centre
 Meany, James T., 512 E 144th
 Meier, Wm., 1962 7th av
 Meiers Plumbing Co., 1104 2d av
 Meilor, Charles, 57 8th av
 Mellor, Joseph, 410 W 17th
 Mellor, William, 303 Bleecker
 Mencher, H. & Co., 263 W 125th
 Merckel, Jacob, 1851 Lex. av
 Merkel, Frederick, 453 E 78th
 Mery, Frank, 234 9th av
 Messer, Adolph, 270 Av A
 Messer, William Co., 159 Suffolk
 Messinger, Max, 316 6th
 Meyer, John J., 86 W 126th
 Meyer, Louis, 322 Canal
 Meyers, David, 76 3d
 Michel, William R., 103 E 9th
 Michelman, D. M., 210 E 98th
 Michelson, Myer, 3814 3d av
 Miglio, John, 340 E 113th
 Mildner, Emil, 523 E 12th
 Miller, Joseph, 473 4th av
 Miller, William J., 187 E 116th
 Milliken, James, 133 Canal
 Millinger, Benjamin, 1774 2d av
 Mills, Harry P. & Bros., 554 W 42d
 Mitchell, John, 170 W B'way
 Mock, Charles, 200 W 101st
 Molel, Isidor, 69 E 4th
 Moeschen, Louis, 589 3d av
 Moller, George, 430 E 83d
 Molten, Charles, 19 Crosby
 Monaghan, Peter D., 1596 av A
 Mondschein, Louis, 89 Pltt
 Montgomery, John & Arch., 15 E 8th
 Montgomery, Wm., 1859 Amsterdam av
 Montgomery, William H., 210 E 111th
 Moody, E. A., 57 W 24th
 Moorhouse, Edgar, 443 W 50th
 Moran, Alfred, 786 11th av
 Moran, Peter E., 31 New Chambers
 Moran, William, 2339 7th av
 Morell, George P., 116 W 164th
 Morgenweck, Charles, 118 3d
 Morris, Martin E., 37 John
 Morrison, John H., B'way nr W 232d
 Morrison, Richard H., 1231 3d av
 Morton & Bathe, 941 6th av
 Mucke, Julius, 2398 2d av
 Muir, James Sons & Co., 27 E 20th
 Muir, William, 2270 Broadway
 Mullay, Thomas W., 11 W 34th
 Mullen, John J., 420 E 84th
 Mullen, Peter, 195 Worth
 Muller, C. & Son, 707 7th av
 Muller, Hy. F., 637 E 145th
 Muller, Robert, 172 Chrystie
 Muller, William, 609 E 16th
 Murphy, Edward, 202 E 43d
 Murphy, John, 28 Beaver
 Murphy, Joseph, Jr., 852 Columbus av
 Murphy, Patrick W., 727 Amsterdam av
 Murphy, Peter F., 38 6th av
 Murphy Bros., 196 Columbus av
 Murray, E. F., 346 W 36th
 Murray, John M., 488 6th av
 Murray, Joseph, 403 W 59th
 Murray & Co., 403 W 59th
 Murray & Charleston, 146 E 16th
 Murray & Gross, 225 E 82d
 Nally, Christopher A., 2382 B'way
 Nathan, Bernhard, 505 Lenox av
 Naumer, Chas., 156 Av C
 Nealis, William T., 249 Division
 Nechankus & Bro., 1681 Lexington av
 Neff, John, 104 1st
 Nelson, Samuel, 107 E 4th
 Neukan & Eagan, 349 E 46th
 Nevins, J. H. & Co., 114 E 11th
 Newman, Nathan, 930 2d av
 Newman, P. & Son, 157 9th av
 Nichols, Fredk. H., 2783 B'way

Nicholsburg, H. & Co., 552 Lenox av
 Nickel, Chris., 82 Lafayette
 Noble, William, 3111 Park av
 Nokes, Fredk. A., 100 E 87th
 Nordinger, Jacob, 305 E 9th
 Nugent, James, 214 Grand
 Oberle, Jacob F., 173 William
 O'Brien, David J., 408 10th av
 O'Brien, James, 647 6th av
 O'Brien, Jno. A., 1058 Dawson
 O'Brien, M. A., 107 W 104th
 O'Brien, Michael J., 2142 B'way
 O'Brien & Ryder, 147 Spring
 O'Connor, Edward, Undercliff av, Morris
 Odell, George W., 144 7th av
 O'Donnell & Sharkey, 84 Pike
 Oeters, Henry, 264 E B'way
 Ogle, Edwin T., 1611 Park av
 Ogle, William H., 418 4th av
 O'Hare, William J., 404 E 57th
 Ohl, Charles, 314 E 9th
 Olinsky, Louis, 94 Suffolk
 Olsen, John, 52 W 28th
 Olvany, Wm. J., 177 Christopher
 O'Neil, B. & F., 427 W 42d
 O'Neil, James, 451 Hudson
 O'Neill, James J., 415 W 46th
 Ordenstein, Louis, 240 E 46th
 O'Rourke, J. F., 65 Madison
 O'Rourke, John J., 128 E 75th
 Orr, David W., 428 Hudson
 Orth, Gustavus A., 25 Frankfort
 O'Shaughnessy, John J., 1 Bleecker
 O'Toole, F. H., 109 W 16th
 O'Toole, F. H., Jr., 156 6th av
 Owens, John F. (Est. of), 285 Amsterdam av
 Ozab & Muller, 3271 3d av
 Pace & McClintock Co., 51 E 62d
 Pache, Charles, 12 Av A
 Page, John D., 1307 Lexington av
 Pape, Herman, 972 2d av
 Pasco, C. E., 666 6th av
 Passet, 562 Brook av
 Patten, Jas. Co., 2495 8th av
 Patterson, Alex. C., 642 Columbus av
 Patton, William G., 220 Canal
 Pearce, Geo. A., 1182 Madison av
 Pelegan, Hy., 207 E 85th
 Pelinski, Henry, 62 E 115th
 Pembleton, Milton, 1101 Lexington av
 Perault, Moses J., Jr., 2455 B'way
 Peter, Walter, 459 Canal
 Petersen, Otto, 234 W 116th
 Peterson, Daniel F., 638 E 143d
 Pettit's, Joseph F. Sons, 372 Lexington av
 Pfister, Fredk. A., 231 Willis av
 Phillips, C. J., 215 E 34th
 Pierce, Albert, 549 Columbus av
 Pierson, Thomas F., 49 3d av
 Pine, Jacob, 208 5th
 Piper, Ernest, 906 6th av
 Platz, Anthony, 103 3d av
 Plotkin, Nathan, 163 Norfolk
 Plunkett, Christopher F., 570 7th av
 Plunkett, James, 767 E 184th
 Plunkett, Jas. J., 7 W 134th
 Plunkett Plumbing, Steam & Water Heat-
 ing Co., 767 E 184th
 Poggi, Louis, 29 Pell
 Pollack, Isidor, 200 W 63d
 Popkin, J., 223 E 97th
 Popovsky, Max., 296 E 4th
 Poppert, N. S., 872 6th av
 Porter, Chas. A., 871 Brook av
 Post, S. & Co., 54 Willett
 Poster, Henry M., 143 W 27th
 Poth, Benjamin F., 452 W 125th
 Powers, David E., W 230th c Ackerman
 Powers, Edw. & Son, 952 1st av
 Powers, James F., 944 1st av
 Press, Martin, 339 E 8th
 Presser, A., 121 E 110th
 Price, James, 110 W 24th
 Price, John, 230 E 14th
 Prindeble, John E., 41 Maiden la
 Producers, J. E., 50 Fulton
 Prosky, Morris, 344 7th av
 Quick, William H., 51 John
 Rabe, Geo., 435 E 17th
 Rabe, William, 409 E 16th
 Rafferty, Dennis, 458 W 38th
 Rakowitzk, Saml., 26 Jefferson
 Rausch, Henry L., 3 Greenwich av
 Rausch, Wm. F., 3 Greenwich av
 Rayfield, Chas. A., 100 W 107th
 Regon, Wm. J., 108 W 135th
 Rehberger, Morris, 1626 Amsterdam av
 Reid, James B., 160 E 129th
 Reid, James M., 615 Kingsbridge rd
 Reid, Ralph H., 202 W 63d
 Relher, J. Henry, 3708 3d av
 Reilly, Jno. J., 27 Hudson

Reilly, Michael, 300 Henry
 Reilly, Philip, 533 Lexington av
 Reinwold, Henry, 146 E 16th
 Reisch, Charles, 90 Ridge
 Reiss, Jacob E., 43 St. Lawrence av
 Reitmayer, Antou, 168 E 91st
 Reitz, Frank, 1444 Boston rd
 Rendall, John I., 1031 E 156th
 Renchau, John, 249 Lexington av
 Renzland, Charles, 426 E 16th
 Reuschle, Fredk. K., 2007 Amsterdam av
 Reynolds, Allen W., 2110 B'way
 Reynolds, Bernard J., 175 E 96th
 Reynolds, Edw., 76 8th av
 Reynolds, Frank, 832 3d av
 Reynolds & McMahon, 309 W 145th
 Rhodes, Alfred A., 2031 B'way
 Richter, Frank & Bro., 66 W 70th
 Riehm, Fred. J., 1164 Boston rd
 Rile, Henry E., 208 E 89th
 Rittenhouse & Davis, 569 Columbus av
 Rlzzolo, Carmine, 40 Crosby
 Roach, Fred. B., 82 W 105th
 Robert, Paul, 305 W 35th
 Roblnson, George, 363 W 52d
 Robinson, Wm. H. V., Unionport rd, Van
 Nest pk
 Rockmore & Newell, 304 E B'way
 Rod, Barnett W., 312 2d
 Roddy, Joseph W., 169 1st av
 Rofrano, Robert J., 8 Roosevelt
 Rogers, Daniel, 2247 B'way
 Rohman, Max L., 151 E B'way
 Rosenbaum, Nathan, 17 Canuou
 Rosenberg, A. H., 130 W B'way
 Rosenberg, Gabriel, 801 6th
 Rosenberg, Louis, 1795 Lexington av
 Rosenberg, Saml., 1789 Madison av
 Rosenberger, Sam'l., 3884 3d av
 Rosenbluth, Benj., 224 7th
 Rosenbluth, Isidor, 1440 Lex av
 Rosenthal, Isidor, 1414 Madison av
 Rosenwald, Wm., 2079 Lex av
 Rosenzweig, Abraham, 124 7th av
 Roslovsky, Abraham, 1459 Madison
 Ross, Geo., 151 E 35th
 Ross, Henry, 83 E B'way
 Rossman & Bracken Co., 11 E 22d
 Rotheuberg, Jno. W., 408 E 15th
 Rothmel & Merton, 705 9th av
 Rothstein, Henry, 1593 2d av
 Rudman, Chas., 60 Fulton
 Rudolph, Henry, 602 Bergen av
 Rush, Wm. G., 714 8th av
 Russo, Luigi, 169 Mulberry
 Ryan, Daniel, 784 6th av
 Ryan, John J., 828 9th av
 Ryan, Jno. J., 1145 2d av
 Ryan, Joseph P., 158 E 36th
 Saffian, Abraham, 1395 2d av
 Sallinger, George M., 516 Morris av
 Salzmann, Henry J., 3461 3d av
 Salzmann, Otto, 1406 Webster av
 Sands, Alfred B. & Son, 242 Water
 Sandzik, Morris, 808 2d av
 Scannell, Tim. F., 729 6th av
 Schaaf, Geo. L., 9th nr Av C, Unionport
 Schaffer, Harris, 313 Madison
 Schapierer, Abraham, 60 E 109th
 Schapierer, Herman, 1729 Lexington av
 Schaub, Jno. J., 2327 Washington av
 Scheer & Ebert, 1894 Park av
 Schieck, August, 1105 Park av
 Schiffer, H'y E. J., 1291 Lexington av
 Schimek, Richard, 1685 Av A
 Schimpf, Wm. P., 1766 Amsterdam av
 Schinnagel, John H., 183 William
 Schlueter, Fredk. E. A., 141 E 4th
 Schmidt, Geo., 246 E 45th
 Schmidl, Leo. N., 406 W 13th
 Schmitt, Andrew, 1115 Lex av
 Schmitt Bros., 545 W 51st
 Schmitt, Herman, 2944 3d av
 Schmitt, Robert, 35 Av A
 Schnaier, Milton & Co., 347 Columbus av
 Schneider, Charles, 752 E 163d
 Schneider, Jos., 4173 3d av
 Schnelle, Geo. C., 254 E 105th
 Schnepf, Charles S., 177 E 117th
 Schoen, Julius, 225 W B'way
 Schonbrunn, Michael, 31 Coenties slip
 Schrader, George L., Main, Westchester
 Schuler, Charles, 209 E 9th
 Schulman, Ignatz, 1480 Madison av
 Schultz Bros., 204 E 120th
 Schulze, Theo., 162 E 92d
 Schumann, F. S., 400 E 74th
 Schwab, Benjamin, 145 Elizabeth
 Schwab, E., 93 E 10th
 Schwager, Aug. C., 125 W 65th
 Schwank, Chas., 50 3d av
 Schwartz, Adolph, 1361 2d av

Schwartz, Hyman, 22 Chrystie
 Schwartz, Jacob, 331 W 41st
 Schwartz, Joseph, 638 5th
 Schwartz, Joseph, 201 E 40th
 Schwartzberg, Henry, 8 2d av
 Schwarz, Frederick, 180 3d
 Schwarzler, Otto J., 73 E 100th
 Schwelckert, Peter, 21 E 220th W'mehridge
 Schweppenhauser, Geo., 2530 8th av
 Schwerin, Adolph, 220 7th av
 Scully, Edward J., 298 E B'way
 Seidel, Henry F., 648 Greenwich
 Seidel, Markus, 112 E 84th
 Seitz, Wm., 1021 Fox
 Serels, Benj., 312 Henry
 Serkissian, Frank P., 1659 Amsterdam av
 Severin, Andrew A., 229 7th av
 Sexton, Peter, 584 Park av
 Shanski & Co., 124 E 4th
 Sharp & Gunn, 499 W 145th
 Sheahan, Cornelius F., 263 W 34th
 Sheehan, John J., 1037 Freeman
 Shumway, Isaac O., 392 4th av
 Shwarcoitz, Max, 214 W 62d
 Silbald, Jno. W., 214 St. Nicholas av
 Sidoroff, Samuel, 166 E 4th
 Siebert, August C., 2212 7th av
 Siegel & David, 171 Forsyth
 Sigel, Albert, 2655 8th av
 Silberstein, Joseph, 54 Av A
 Silverman, B. & Co., 36½ Stanton
 Silverman, Isaac & Co., 27 Chrystie
 Silverman, Philip, 7 Eldridge
 Simon, Benj., 207 E 102d
 Simpson, Alexander & Son, 210 E 26th
 Simpson, I. H., 286 Amsterdam av
 Sinkovitz, Isidor, 96 Ludlow
 Siscovitz, Louis, 111 Madison
 †Skannell, James F., 564 Amsterdam av
 Slough, A. D., 281 Greenwich
 Smale, Wm P., 206 E 85th
 Smith, Alex. J., 1444 Madison av
 Smith, E. C., 997 1st av
 Smith, Edw. H., 176 E 77th
 Smith, E. H. & Son, 328 Lenox av
 Smith, Fred'k J., 202 E 123d
 Smith, George H., 352 W 38th
 Smith, Geo. W., 87 Greenwich
 Smith, Gustave T., 54 Manhattan
 Smith, James, 70 E 83d
 Smith, John, 1571 & 1181 3d av
 Smith, John J., 431 W 42d
 Smith, Louis R., 1391 5th av
 Smith, N. A., 307 5th
 Smith, Philip, 178 6th av
 Smith & Roffler, 50 W 107th
 Smith & Wills, 153 Maiden la
 Soles, Wm. A., 1691 Park av
 Somerville, George, 73 Varick
 Sonkin, Louis, 3 W 116th
 †Spelman, W. H., 112 W 38th
 Spence, John Co., 215 W 125th
 Spindler, Emil, 255 W 27th
 Spitz, Anton, 11 Bleeker
 Staats, Gustav, 160 E 59th
 Stahl & Brown, 249 Mercer
 Standard Plumbing Co., 516 Columbus av
 Stanton, Patrick, Albany av nr Bailey av
 Steele, Geo., Jr., 282 Alexander av
 Steele, John J., 2618 3d av
 Steigelmann, August, 171 Elizabeth
 Steiger, Fred'k, Brook av & 163d
 Stein & Ericson, 286 Columbus av
 Steinhuehler, Herman, 170 E 107th
 Stephan, Charles, 734 8th av
 Stewart, John M., 400 Bleeker
 Steyn, Peter, 492 Manhattan av
 Stodel, Joseph, 1203 Tremont
 Stolz, Florence, 2966 3d av
 Stone, David, 162 E Houston
 Stone, Hyman, 243 Monroe
 Stone & Goodman, 240 E 113th
 Storrs, Wm. H., 73 W 105th
 Strachan, Robert W., 328 9th av
 Strauss, Chas., 1 W 3d
 Streit, Andrew, 1994 2d av
 Strobel, Anton, 617 E 11th
 Stroh & Huber, 774 9th av
 Stuart, Chas., 1023 Lex. av
 Sullivan, John J., 72 W 36th
 Sullivan, Jos. F., 2522 Webster av
 Sullivan, Manrice J., 4 Liherty pl
 Sullivan, Timothy, 599 Lexington av
 Suna & Zolotofsky, 41 Forsyth
 Susemihl, Albert W., 59 E 9th
 Swain, Thomas, 452 4th av
 Sweeney, James W., 2881 Webster av
 Sweeney, Joseph F., 579 Grand
 Tahakman, Hyman, 165 Broome
 Taggart, Jno. J., 219 9th av
 Tague, Patrick J., 2200 7th av
 Taylor, Hugh M., 118 Broad
 Terts, Samuel A., 507 8th av

Thatcher, Jas., 61 Centre
 Theiss, Jos., 838 E 169th
 Thole, Lawrence A., 234 3d av
 Thompson, Jno. W., 201 Prince
 Thompson, William, 57 Sullivan
 Thompson, Wm. D., 29 E 215th, W'ms-bridge

Thompson, D. & Son, 363 Lenox av
 Thompson & Moran, 508 Canal
 Thoms, Frank, 168 E 106th
 Thomson, Wm., Av. B, Unionport
 Tierney, Frank L., 1027 Ogden av
 Tischler, Samuel, 27 Canaan
 Tomback, Simon, 92 Madison
 Tomback & McPhee, 203 E 110th
 Tonkin, Samuel, 33 Essex
 Tracy Plumbing Co., 890 Park av
 Travers, Wm., 108 E 119th
 Treacy, Walter A., 1009 6th av
 Treat, Chas. H., 1541 B'way
 Trede, Geo. C., 501 W 54th
 Tretler, Richard, 241 E 46th
 Tubridy, William, 186 E 119th
 Tucker, Chas. F., 48 University pl
 Tucker, John, 248 4th av
 Tucker, R. J. & Bro., 180 W 74th
 Tuomey, Thos. J., 1242 3d av
 Turkowsky, Frederick, 28 2d av
 Twomey, P. J., Morris Park av, Van Nest
 Vall, Wm., 108 University pl
 Valentine, William A., 611 Kingsbridge rd
 Vantine, John H., 121 W 125th
 Vantine, Thomas H., 79 6th av
 Vermilye, Frank, 108 W 135th
 Vincent, Nicholas J., 977 6th av
 Vineberg, Benjamin F., 1315 2d av
 Volkmar, Hy. G. Co., 4281 B'way
 Voss & Ebner, 5 Peck st
 Vouchnow, Sigmund, 537 W 39th.
 Wagner, George, 61 Jefferson
 Walkinshaw, Wm. B., Undercliff av & Sedgwick

Walkley, Frank E., Jr., 311 St. Anns av
 Wallace, Robert & Wm. J., 358 Columbus av
 Wallace, Wm. R., 203 E 113th
 Wallerstein, Isaac, 24 Norfolk
 Walsh, Andrew J., 351 Park av
 Walsh, Charles A., 28 Bayard
 Walsh, James S., 183 E 95th
 Walsh, John, 242 W 14th
 Walsh, Joseph J., 218 E 59th
 Walsh & Wertheim, 55 W Houston
 Walz & Morton, 226 W 31st
 Ward, Wm., 465 Pearl
 Warren, Samuel, 150 Lenox av
 Warren, Wm. S., 2494 Tiebout av
 Warwick, Alfred E., 5 Sylvan pl
 Washington, F. H., 43 W 125th
 Webb, Henry, 198 Lexington av
 Webber, Edwin B., 844 Amsterdam av
 Webber, Frederick, 830 Cortlandt av
 Weber, Gottlieb, 1751 Park av
 Wehler, Frank S., 775 E 174th
 Weigel, A. J., 1008 1st av
 Weinstock, Oscar, 1853 3d av
 Weisberg Co., 601 E 9th
 Weiss, Anton, 109 1st av
 Weiss, John, 193 Broome
 Weiss, John J., 323 Spring
 Weiss, R. A., 337 E 9th
 Weistead, John J., 141 E 27th
 Wendel, Max., 205 E 110th
 Wendel & Gompers, 102 E 108th
 Wenzel Plumbing & Contracting Co., 703
 Werner, Louis, 98 8th av, Columbus av
 Werner, Reinhold F., 1567 2d av
 Wexted, Jas. C., 282 E B'way
 Whalen, Pat'k E., 423 E 116th
 Whealen Bros., 855 E 169th
 Whealen, James, 119 W 24th
 Whelan, Jas., 102 W 96th
 Whitmore, Frank W., 108 Front
 Widder, Frederick, 1787 Monroe av
 †Wieher, Henry E., 28 E 20th
 Wiesman, Charles, 526 E 13th
 Wilcox, Walter, 1190 E 178th
 Williams, Jno. C., 7 Christopher
 Willis, Robert, 520 Pearl
 Wills, Wm. H., Jr., 111 E 27th
 Wilson, Alfred W., 101 E 13th
 Wilson, Wm., 2539 Webster av
 Windle, Randolph T., 846 8th av
 Winters, Wm., 486 8th av
 Wirth, Alfred, 2260 1st av
 Withers, R. A., 141 E 91st
 Withers & Stuckey, 786 3d av
 Wohn, Fred'k, 3391 3d av
 Wolf & Brown, 754 E 138th
 Wolfert, Louis, 1275 Lexington av
 Wolff, Abram, 1630 2d av
 Wolff, Chas., 2391 1st av
 Wolkiser, Adolph, 406 E 74th

Wood, John, 95 4th av
 Worms & Kemp, 287 W 127th
 Woytisch, Frank, 1311 3d av
 Yauch, Chas., 139 Division
 Young, Frank A., 229 7th av
 Young, William, 27 Greenwich av
 Young, William & Bro., 57 E 59th
 Young & Myers, 245 Greenwich
 Yule, Wm., 101 W 108th
 Zaldin, Louis, 235 Clinton
 Zeller, George, 9 Old Slip
 Zerowin, Samuel, 207 Madison
 Zucker, Bernhard, 751 5th
 Zuckerman, Louis, 3 Monroe

Borough of Queens.

ARVERNE—Hemmert, Geo., Alex. av nr Boul
 BAY SIDE—†Robertson, Fred'k B., 34 Bell av
 BROOKLYN HILLS—(See Richmond Hill)
 COLLEGE POINT—Ackerknecht & Kirchner.
 †Cornell, John H. & Co., High 39 2d av
 Marx, Louis, 96 13th
 Sheridan, Philip C., 5th av nr 13th
 CORONA—Bock, Edwin E., Lake c Central av
 Gallucci, Samuel
 Murphy, William H.
 O'Brien, Hugh H.
 Relning, William
 Schilling Bros.
 Schrader, Albert
 Thompson & O'Neill
 ELMHURST—Killi, Geo., B'way nr Union av
 Langstaff, C. R., B'way nr Union av
 McKeon & Mackenzie
 Petry, John W., Whitney av nr B'way
 EVERGREEN—Gutmann, John, 185 Woodward
 Habeman, Fred'k av
 Schneider, Hy., 256 Woodward av
 FAR ROCKAWAY—Brady, Edw.
 Gaffney, John, Central av nr Clark av
 Kelly, Stephen A.
 McGinnis, P. J., Central av nr Lockwood av
 Mulhearn Co.
 Scott, Philip P., Central av nr Cleveland av
 †Smith Bros.
 FLUSHING—Anderson, Jno. & Son, 90 Main
 Anderson, John A., Jr.
 Corcoran, Wm. C., 29 S Prince
 Foster, Edw.
 Hendrickson, D. T.
 Kelly, Edw.
 Kelly, J. J.
 McKenna, Frank B., 175 Washington
 McLellan, Alex. L., 74 Washington
 †Rogers, Jno. F. & Co., 129 Main
 GLENDALE—Read, Charles I.
 HOLLIS—Pearsall, Harry E., Fulton
 JAMAICA—Clerke & Draper
 Dixon, Thos. J., 264 Fulton
 Fuerst, Alex., South c Henry
 Greene, Francis W., 11 Flush av
 Stewart & Knorr
 †Woolley, Chas. H. & Bro., 376 Fulton
 LAUREL HILL—Kennedy, John C.
 LONG ISLAND CITY—†Brodie, William
 Burke, James J., 73 Jackson av
 Caldwell, W. H., 102 Main
 Capone, Thomas C.
 Castle, Robert C.
 Christensen, Jno., 56 Mill
 Collins, Philip, 185 4th
 Edmiston, Jno. L., 354 Jamaica av
 Flick, Geo., 748 Ely av
 Gabler, Frank, 93 Camelia
 Green, Frank J., 138 Hunter av
 Horbert, Fred'k
 Jarvis, Edw., 95 Wilbur av
 Meikleham, John, 121 Main
 Moeser, Bernhard, 536 Jamaica av
 Mullady, Jos., 212 Main
 Nehrbaue, Nicholas, Jr., 683 Steinway av
 O'Connor, George M., 156 Fulton av
 †Petry, John W., 63 Vernon av
 Recknagel, Chas. L., 407 Steinway av
 Simpson & Son, 49 East av
 Stubbings, George, 262 Hancock
 Sullivan, Daniel J., 121 Main
 Wedmayer, Fred'k, 483 B'way
 MASPEETH—Gillen, Daniel A.
 Heilriegel, Fred'k, Jr.
 METROPOLITAN—Starcke, Hy. A., 225 Fair-
 view
 MIDDLE VILLAGE—Hirsch, Peter J., Jr.,
 Metropolitan av
 OCEANUS—Gross, G. P., Boul nr Bay View av
 Hartmann, Robert, ft Pleasant av
 Kupper, John, Wainwright pl nr Boulevard
 Moehn, Jacob, Boulevard
 Repperger, Jos. W., Boulevard nr Division
 Sauer, George H., Washington av nr 1st av
 Ward, William H., Boulevard

OZONE PARK—Mond, Michael F., B'way
 RICHMOND HILL—Bocklen, Edw. W., Atlantic av
 Bocklen, R. C., Chichester av
 Haff, Chester A., 273 Johnson av
 †Jephson, Robert & Co., Jamaica av
 †Keppel, George, Atlantic av
 †Meier, Frank X., Jefferson av
 †Schwenger, George
 Spaulding, Fred, D.
 Stuart & Donohue

WHITESTONE—Beebe, Wm. H., 18th n 8th av
 Dare, Alfred C., 18th nr 8th av
 McMahon, Edw. J., 11 22d
 †Merritt, Isaac B.

WINFIELD JUNCTION—Kleb, William P.

WOODHAVEN—Baumann, Henry
 Garbe, Henry
 Schmidt, John

WOODSIDE—Brunner, Edward, Anderson av
 Corrigan, Charles, 1st nr Riker av
 Lievendag, Adolph

Borough of Richmond.

CASTLETON CORNERS—Pfuhler, Jno., Manor
 FORT WADSWORTH—Ernst, Frank A., rd
 GREAT KILLS—Brower, Herbert S.

LINOLEUMVILLE—Scholes, Cornelius, Rich.
 turnpike
 MARINER HARBOR—Barnes, Daniel, 77 Van
 Pelt av

Lorenzen, Peter E., 783 Richmond ter.
 NEW BRIGHTON—Barnes, Wm., 36 Jersey
 O'Halloran, T. E., 1 5th av
 Reddy, Richard F., 396 Richmond ter.
 Santry, James J., 367 Richmond ter.
 Santry & Co., 350 Richmond ter.

Warren, Walter T. (Est. of), 386 Rich. ter.
 NEW DORP—Jurgensen, Rudolph, New Dorp la
 PORT RICHMOND—Duff, Jno. S., 104 Rich. av
 †O'Hara, Wm. H., 104 Richmond ter.
 †Rauscher, Fred'k., 17 Richmond ter

Rosner, John
 Smith, James A., 32 Richmond ter
 Walsh, Walter N.
 †Watters, Jno., 47 Richmond ter.

ROSEBANK—Koch, Wm. G., South Beach
 Parker, Frank, 269 N. Y. av, Fort Wads-
 worth

STAPLETON—Earnest, Herman C., Jr., 332
 Larkin, Jno. B., 129 Canal Bay, Clifton
 O'Hanlon, Joseph, 98 Broad
 Ryan, Jos. D., 28 Targee
 Schleining, Charles A., 10 Beach
 Van Pelt, Jno. J., 1 Thompson

TOMPKINSVILLE—Barry, Wm. J., 24 Rich-
 Replatt, Wm., 35 Griffin mond turnpike
 Crosson, Robert, Jr.

TOTTENVILLE—Guyon, Henry A.
 WEST NEW BRIGHTON—Clark & Morton, 195
 Davies, Geo., 45 B'way Richmond ter

Heap, Chas. R., 2 Rich.
 Henderson, Robt. K., Castleton av
 Kelly, Jno. F., Cary av
 Lewis, Milford, Cherry la
 McCornack, Chas., 72 Castleton av
 Missall, Chas., Maine av, Probn. pk
 O'Connell, Timothy F., 145 Rich. ter
 Roach, Jno. J., 96 Davies av

(END OF NEW YORK CITY)

NIAGARA FALLS—Boutcher, Sarah J. (Mrs.
 †Davy, Peter J., 545 Main J. F.)
 †Dooher & Seager

Edwards, Wm. W.
 †Eiderfeld-Hartshorn Hardware Co.
 †Ellenbaum, J. H., 322 Niagara
 †Ersline, Wm.

Flanagan, John P. & Bro.

McGrath & Durk

†Matthew, W. P.

†Oliver, F. W. Co.

Perkins, Jesse E.

Riley, Jos. G.

†Watson, Jas. & Son, Station A

NORTHPORT—Haff, J. L.

†Idgeon, Edward

Wild, William & Sons

NORTH TONAWANDA—Kaiser, Fred. J. & Co.

†Knapp-Cramer Hardware Co.

Miller, Geo. O.

†Thompson, W. A.

Wagenschuetz, Fred F. & Co.

Walkinshaw & Co.

NORTHVILLE—†Allen & Palmer

Foote, W. A.

NORWICH—†Burchard Bros.

Kling, C. A.

†Latham, O. H.

†Nash, Charles G.

NUNDA—†McCarthy, F. J.

NYACK—†Ernst & Bro.

Fairsnider, John T.

†Fulton, W. A.

†Gates, George
 Henry, Allen L.
 Locke, O. W.
 McElroy, Elbert D.
 Nelson, George A.

Wyman, George R. & Son
 OCEANUS—(See New York City, Borough of
 Queens)

GGDENSBURG—Bowman, Jas. S.

Britton, W. D., 32 Ford

Burns, E. J.

Doyle, Peter H.

Hackett, P. Hdw. Co.

McPherson, Daniel O.

Rapin, Frank & Co.

Skeith, Thos., 39 Isabella

OLEAN—Kallenback, Mrs. E. L.

Rogers, L. G. & Co.

†Simpson, W. H.

ONEIDA—Agan, Michael E.

Dennison Bros.

Harris, Wales & Co.

Smith, J. R.

White, H. M.

ONEONTA—Brown & Mills.

†Jennings, H. D., Main & Chestnut, ext.

Rowell, Geo. W.

†Townsend, L. H. & C. D.

OSSINING—†Barlow & Co.

Fleck, Philip H., 141 Main

Keenan Bros.

Khuus, Edw.

†Lemmy, Robert, 107 Main

Murray, Edwin D., 25 Spring

†Young, A. L., 217 Main

OSWEGO—†Costello, James, W 1st

†Crawford, M. B., 45 W Bridge

†Fayette, Geo. B.

†Hennessey, Thos. M., 83 E 1st

†Keefe Bros., 161 W 1st

Kehoe Bros.

†Quigg Hardware Co.

Sculley, E. & Son

†Sullivan, J. C., 106 E 1st

OWEGO—Adams, H. B. & Sons

Baker, F. M. & Son

Houk, J. S.

†Stanbrough, J. B.

OXFORD—†Burchard Bros.

†Oxford Hardware Co.

Titns, B.

OYSTER BAY—Baldwin, Thos. E.

Gitto, Louis J.

Hutchinson, E. K.

Powers, B. H.

OZONE PARK—(See New York City, Borough
 of Queens)

PALMYRA—Barrett, Roy

French, G. W. & Co.

PATCHOGUE—Gordon, Arthur B.

†Gordon Bros.

Larkin, L.

†Overton, Lorin M.

Rogers & Overton

Ryder, Charles J.

PEEKSKILL—Caflan, William

Donovan, D. D.

Durrin Bros.

Foster & Son

Lane, Wm. E.

McCoy & Otte

McLane, Louis

Purdy, Wm. H.

†Wessels, Wilber F.

PENNYAN—†Hollowell & Wise

Parker, J. T.

†Penn Yan Steam Heating Co.

PERRY—McIntyre, C. A.

Olin & Grieve

PHILMONT—†Carney, Michael (Est. of)

PIERMONT—Kane, O. H.

PINE HILL—Rose, George E.

PLATTSBURG—†Costello, Thomas, 98 Margaret

Freeman, Jno. A.

†Moers, W. R.

Webb, Geo. N., 17 Bridge

PLEASANTVILLE—Marshall, Wm. H.

PORT CHESTER—Bitz, H. F.

Dold, Fred'k., Jr.

Hauxwell & Smith

Murray, T. J.

Penove, Alfred

Russell & Elmore

†Schupp, Herman

Siltz, G. W.

Smith & McNeil

Thompson, Oscar

Wenkenbach, Louis O.

PORT HENRY—†Braedner, J. T.

Gilbo & Tobin

†Hogan, Michael

PORT JEFFERSON—Lawrence, Jno. H.

Smith, G. H.

PORT JERVIS—Driller, Frank

Gordon & Malvern Co.

McDonald, S. G.
 Patterson, Chas. D.
 †Swinton & Co.
 Toth, J. J.

PORT RICHMOND—(See New York City, Bor-
 ough of Richmond)

PORT WASHINGTON—Bauer, G. E.

Dickinson, J. W.

POTSDAM—†Seely, W. F. P.

POUGHKEEPSIE—†Adrian, Peter & Son, 393

Briggs, G. H. & Son, 393 Main Main

†Cook, Chas., 418 Main

†Doherty, P. C., 112 Main

Mulreln, James, 27 Market

Noll Bros.

†Plass, J. W., 445 Main

†Ritter, William H., 141 Main

Schick, Chas. F., 192 Main

Ward, Thos., 271 Main

†Ward, Wm., 234 Main

RED HOOK—†Curtis, J. A.

RENSSELAER—†Fowler, Samuel A.

Gray, Charles W.

Gray, William W.

RHINEBECK—†Rosenkranz, Louis

†Smillie, Harry & Co.

RICHMOND HILL—(See New York City, Bor-
 ough of Queens)

RIVERHEAD—Brown, J. A.

Bunce, Charles E.

Edward, J. Irving

ROCHESTER—†Barr, Jos. A., 117 State

†Barr & Creelman, 24 Exchange

Bascom & Morgan, 37 Spring

Bennett, R., 22 Allen

Brown, W. J., 43 Prospect

Caffery & Evans, 96 West av

Caldwell Bros., 167 East av

Carey, A. F., 228 Monroe av

Casseheer & Wronker, 15 North

Chissell, Thos. G., 307 Monroe av

Cooper & Henry, 406 West av

Dean, Harry W., 1052 Main, E

Dodds, G. E., 80 Exchange

†Donovan, Patk. J., 705 Lake av

Downs & Dunn, 495 State

†Falls, F. H., 272 State

Fanning, Benjamin, Livingston bldg

†Fisher, Charles F., 49 North

Fludd & Bay, 212 N Clinton av

Flynn, Edw. J., 440 North

†Ford, R. T. Co., 200 South av

Fox, J. F., 72 Andrews

†Fox, Wm. T., 413 E Main

Gleason, Joseph B., 174 Monroe av

Godfrey, J. E. & Co., 271 Lyell av

†Goodenough, Orrin E., 280 State

Gottermeyer, Andw., 45 Walnut

Hargather, Jno. P., 278 Allen

Hart, Henry, 283 Andrews

Harris & Rice, 421 Clinton av, N

Heingle & Henry, 702 University av

Howard, Robt. J., 203 Main st

†Howe & Bassett, 23 Stilson

Kewin, W. J., 155 East av

King, E. W., 493 Main, E

Kinnen & Marriott, 148 North

Lanth, J. C. & Co., 565 Clinton av, N

McCaffrey, Thos. F., 228 Plymouth av

†McDonell & Dumond Co., 32 East av

MacSweeney, Leo., 382 St. Paul

Magrath, Wm. F., 329 North

†Maher & Glasgow, 13 Cortlandt

†Marcellus, J. R., 116 Columbia av

Meltzer, Chas. H., 313 State

Metzger & Brayer, 425 Lyell av

Meyn, Aug. G., 324 Jeff'n av

†Milligan Bros., 185 Main, W

Morrissey, Wm. P., 372 Plymouth av

Natt, Bareham & McFarland, 358 Main, E

†O'Connor, Jas. A., 378 St. Paul

Potter, George W., 510 South av

Reid, W. J., 111 East av

†Reynolds, James Co., 35 Mill

Rice, E. J., 11 Plymouth av

Rodenbeck, Chas. F., 388 South av

Rossney, F. G., 202 West av

Rykenboer, Frank, Jr., 122 Hudson av

Scales & Price, 929 Clinton av, N

Scheck, Frank A., 308 Clinton av N

Shannon & Coughlin, 602 Lake av

Smith, Edw. H., 44 Herman

Smith & Oberst, 172 West av

Tanner, Jas. J., 188 West av

†Stallman & Snyder, 485 Main, E

Van de Walle, Wm. L., 228 North

Vogler, Louis J., 56 Lowell

Walker, F. R., 25 Stone

†Wright & Alexander, 199 State

Zimmer & McKibbin, 110 Monroe av

Zimmerman, John B., 385 Ames</

ROME—Harper, John R.
O'Shea & Larkin
Parry, Jno. J., 127 N James
†Russ, G. P. & Sons, 109 N James
RONDOUT—(See Kingston)
ROSEBANK—(See New York City, Borough of Richmond)
ROSEDALE—(See Fosters Meadow)
ROSSVILLE—(See New York City, Borough of Richmond)
ROSLYN—Burrowes, Robert
Ramsauer, Edw.
Titus, Willett
ROUSES POINT—Bullis, E. E.
Chilton, Geo. & Co.
RYE—Blitz, Louis P.
Byrnes, Thos., Jr.
SAG HARBOR—Montcaim, C. H.
Reney, Geo. C.
ST. JOHNSVILLE—Lenz, Wm. H.
McRea & Son
SALAMANCA—†Andrews, J. A. & Son
†McCann, Hubbell & Co.
Nies, Fred. T.
SANDY HILL—Daveau, Joseph
Ganthier & Gordon
George, Chas. T.
Sherrill, George
SARANAC LAKE—†Adirondack Hardware Co.
Lamoy, William E.
Pasho, William
Walton & Tousley
SARATOGA SPRINGS—Ames, Frank C.
Collins & Spencer
Fitzpatrick, James W., 28 Philadelphia
Green, Edw. J.
Hickey & Moylan, 16 Caroline
Ingmire, Wm. M.
McGoff & McPherson
Maher, W. P.
Mehan & Co., 2 Caroline
Powers, Jas. H., 42 Putnam
Smith, Chas., 2½ Maple av
Sterns, Spencer M.
†Tarrant, W. P., 12 Maple av
SAUGERTIES—Hildebrandt, F. A.
†Lamb, Daniel
Murphy, Frank M.
†Russell, James
Smith, P. C.
SAYVILLE—Fisher, S. A.
†Jedlicka Bros.
SCHENECTADY—†Allen, John, 133 Jay
Atkins, John R.
†Case, Levi & Co., 412 Warren
Clute, W. S., 16 Central arcade
†Dakin, John H.
DeForest, F. V., Jr.
Dibble, C. E. Co.
Friday, Louis, 142 Clinton
†Macgregor, T. F., 135 Jay
Pangburn, J. H., 13 Central arcade
Rogers, W. D. & Co.
Shank, C. F.
†Sheehan, Jno. R., So. Centre
†Stevenson Bros., 129 S Centre
Van Loon & Hedden, 728 State
†Vrooman's, J. V. Sons, 138 State
†Wasson, Jas. T., 138 Clinton
†Williams, D. H., 156 Barrett
Winnle, George H.
SEA CLIFF—†Koop, Jno. & Sons
Pearce, James F.
SENECA FALLS—Story & Strong
Waller, Geo. A.
SHEBOURNE—†Lobey & Smith
SHELTER ISLAND HEIGHTS—Harris, C. S.
†Jennings, E. H.
†Morrison, J. B.
SILVER CREEK—Shofner, G. H.
Webb, David L.
SKANEATELES—†Beuch Hardware Co.
†Shallish, J.
†Shotwell, Tucker & McGinn Co.
SOUTH GLENS FALLS—Reynolds, Henry C.
SOUTHAMPTON—†Cameron, A.
†Hammond, E. E.
Raynor, Burdette
Robinson Bros.
SOUTHDOLD—Macomber, B. F.
SPRING VALLEY—Van Orden, Elmer
STAMFORD—Kelly, E. L.
†Lawrence, H. C.
†Maynard & Elliott
STAPLETON—(See New York City, Borough of Richmond)
STONY BROOK—†Rogers, T. B.
SUFFERN—Beers, George A.
Hansen & Co.
Ramapo Plumbing Co.
SUSPENSION BRIDGE—(See Niagara Falls)
SYRACUSE—†Ames, Charles E., 109 Decker
†Boysen Bros., 431 N Salina
Chase, Rudolph K., 431 Gifford
Clay, Thomas E., 710 Rutternut
Coling, Walter, 606 S Clinton

Curran, Jeremiah L., 213 N Franklin
†Donovan & McCarthy, 412 S West
†Dougherty & Carroll, 419 S State
Drexler, Wm., 1106 S Salina
Duckrow & Duckrow, 222 W Onondaga
Dunkerton & Benedict, 400 S Warren
Eckel Bros., 545 N Salina
Gannon, P. & Son, 257 James
Goldie, Wm. J., 230 James
†Gooley, William F., 1911 W Fayette
Gray & Schall, 103 Baker
Group, Fred. & Sons, 607 N Salina
Guider & Cadin, 340 S Warren
†Hanchett, Chas. G., 211 W Fayette
Hilkins, Frank J., 310 E Genesee
Houde, Edw. G., Jr., 429 Hawley av
Howes, C. T., 318 E Fayette
Hurst Bros., 1320 Lodi
Jalonnack, M. H., 300 Cedar
James, F. O., 917 S Salina
†Joy, Edw., 133 Market
Klenzie, Chas. A. H., 223 N Salina
Lavelle, Jno., 334 S Warren
Leavery, Frank, 306 E Water
Lawless, Jno. F., 306 S Franklin
Leahy, M. J., 413 S State
McCarthy, Chas. E., 511 S West
McCarthy, P. D., 401 S State
McDonald, James W., 910 Oak
†McDonald, P. F., 210 Walnut av
McIntyre, Duncan J., 300 James
Mardin, Claud L., 1536 S Salina
Maynard, Jos. E., 229 N Crouse av
Montgomery & Foley, 418 Grape
Mooney, Michael J., 501 Oswego
O'Donnell, B. Joseph, 602 S State
†Orr, W. S., 227 E Genesee
Oswald, John, 534 N Salina
Pendergast Bros., 101 N Franklin
Reld, James T., 516 S Clinton
Straub, Clemens J., 723 N Salina
Tracy, Dennis F., 418 Sunset av
Walsh, Jno. R., 241 W Genesee
Ward, Irving G., 408 Delaware
Warren, Fred'k W., 913 Oak
Welch & Kehoe, 214 Montgomery
Young, Chas. G., 836 Park
Young & Power, 105 N Warren
TARRYTOWN—†Curtiss, C. H. & Co.
Kuntz, H. L.
Martin, Bing & Co.
Miller Bros.
TICONDEROGA—†Bascom, D. C.
†Brust, F. L.
†Lamson, W. H. & Son
TOMPKINSVILLE—(See New York City, Borough of Richmond)
TONAWANDA—†Koenig, H. B. & Co.
Krauss, C. Ferdinand
TOTTEENVILLE—(See New York City, Borough of Richmond)
TROY—†Bills Plumbing & Heating Co.
†Bowman, Geo., 465 Federal
Calhoun, Henry Co., 3 Bridge av
†Corrigan, Jno. W., 593 2d av, Lans.
†Davern, M. J., 135 2d
†Delehanty & Murphy, 68 Congress
Dunn, A. A., 412 River
Farrey, Philip, 576 River
†Ferguson, William, 515 Fulton
Gerlach-Bolton Co., 642 2d av, Lans.
Gray & Ryan, 6th av c Hoosick
Green, J. & Son, 713 River
†Healey, Geo. F., 150 4th
Hollinger, Fred. A. M., 40 Hoosick
†Horan, J. J. & Co., 215 River
Kennedy, James, 402 River
†Kennedy, Michael, 84 Congress
Kennedy & Purcell, 128 River
Knappp, Jno. F., 672 Pawling av
Lee Bros., 46 State
Lodge, Thos. H., 2342 5th av
McConbrey, Albert & Son, 53 George, G. I.
Meighan, Andrew J., 723 River
Mitchell, John H., 316 2d
Morris, Samuel, 2 2d
†Mulligan & Schermerhorn, Troy Savings Bank bldg
Myers, Wm. J.
O'Neill & Shumway
Osterhoudt & Lynch, 124 Congress
Patterson, George J.
†Pfau & Gilcoyne, 48 Ferry
Powers, Jno. J., 310 2d
†Quinn, Wm. F., Jacob & King
Radley, John S., 43 George, G I
Rees, Thos. L., 646 2d av, Lans.
†Reid, Jas. A., 555 Congress
Sasse, Robert W., 842 River
Seymour, George G., 468 5th av, Lans.
†Wills, C. & Son, 249 River
TUCKAHOE—Rubly, William F.
TUXEDO PARK—Secor, Charles H.
†Vall, William

UTICA—Banuigan, Cooper & Stessel
†Batchelor, Julian Co., 12 Pearl
†Brandeis, Herman J., 35 Catharine
†Breen Bros.
†Brucker, G. L., 77 South
†Cahill, James F., 37 Charlotte
Cantwell, Wm. T., 306 Bleecker
†Carney Bros. Co., 206 Columbia
Dulan & Meany, 64 Albany
Goodenow, Jno. S., 52 Columbia
†McKeough-Danquer Plumbing Co., 211 Genesee
Mahanna, Chas. F., 144 Sunset av
†Millar, Chas. & Son Co., 127 Genesee
Morath, Jos. P., 164 Columbia
Petersen, H. C. & Co., 221 Park av
†Quinn, Tulgg & Co., 36 Charlotte
Sabine & Harvey, 74 South
Schrader, Herbert J., 32 Pearl
†Stradling Plumbing & Heating Co., 139 Genesee
Tibbitts-Ward Plumbing Co., 197 Park av
Trosset, Chas. E., 611 Bleecker
†Wicks, Hughes & Co., 224 Genesee
Witte, John B., 50 Varick
WALDEN—†Collins & Craft
†Williams, Henry E.
WALTON—Reynolds & Stebbins
WARSAW—†Webster-Case Hardware Co.,
WARWICK—†Ogden & Pelton
WATERFORD—Barnfather, F. B. & Co.
Brott, Andrew J., 4th c Division
Carter, Charles H.
WATERLOO—Haight, G. S.
WATERTOWN—Arthur, H. S.
Campbell & Lewis, 17 Park place
Cook, Victor H., 35 Public sq
Gleason, George H.
Harbottle, M. & Co., 38 Public sq
Healy & Chambers, Burdick bldg
Hyde Bros., 29 Public sq
Irwin, E. B., 26 Court
McCready & Rogers
†Mowe, Nichols & Parkhurst
Peck, P., 46 Franklin
Phillips, F. R. & Co., 61 Court
Rector, W. A.
Roof, C. L. & Co.
Sargeant, Fred W.
†Spratt & Corcoran
Wilson, F. B. & Littlefield
Worlock, George B., 41 Moulton
WATERVILLE—Barr, R. M. & Son
WATERVLIET—Gray, Vivian, 416 3d av
†Hamil, James, 1605 B'way
Rivers, Leo, 1531 B'way
WATKINS—†Durland, L. H. Son & Co.
WAVERLY—†Barton & Rockwell
†Bouton & Sons
Denslow, W. H.
Emmons, Van Etten & Co.
Meade Bros.
†Mixer, E. D.
Smith, F. F.
WELLSVILLE—†Hoyt Hardware Co.
Johnston Bros.
Lauterborn, J. J.
WESTFIELD—Wilson & Osborne
Wilkins & Plehl
WEST HAMPTON BEACH—Grimshaw & Redfield
WEST NEW BRIGHTON—(See New York City, Borough of Richmond)
WEST SENECA—Milks, George R.
WHITE PLAINS—Birch, Robert J. & Co.
Farrell, Jas. C.
†Fowler & Sellers
Frieze & Hibbins
Knox, F. P.
†McGuire, Frank J.
Washburn, Geo. W.
WHITESBORO—Eberly, John C.
WHITESTONE—(See New York City, Borough of Queens)
WILLINK—(See East Aurora)
WINFIELD JUNCTION—(See New York City, Borough of Queens)
WOODHAVEN—(See New York City, Borough of Queens)
WOODMERE—Baldwin, Gilbert
WOODSIDE—(See New York City, Borough of Queens)
YONKERS—†Barr, A. B. & Co. (Inc.), 6 River
Booth, Wm. E., 68 N B'way
Campbell, Collin, 314 New Main
Carragher, Owen, 328 Nepperhan av
Cochrane, John F., 9 Jefferson
Collins & Leonard, 55 Warburton av
Costello, E. W., 26 Jefferson
Crowley, John E., 53 Herriott
Cunningham, I. F., 54 N B'way
Cunningham, Joseph B., 769 McLean av
Curran & Carey, 18 Ann
Donohue, P. J., 128 New Main
Donovan, J. J., 42 Riverdale av
Donovan & Redding

Duffy, Frank (Est. of)
 Harper, Robert, 70 N B'way
 Herring, Geo. D., 149 Riverdale av
 Horrigan, Jeremiah, 2 Orchard
 Kisby, George H.
 Locke, Geo. S., 17 Wells av
 McVicar, Thomas, 30 Dock
 McVicar, Wm., 83 Woodworth av
 Maguer, John, 36 S B'way
 O'Brien & Durkin, 166 Nepperhan av
 O'Neill, George, 50 Linden
 Reagan & Co., 195 Ashburton av
 Ryan, Thomas A., 4½ Main
 Scholding Bros., 167 Nepperhan av
 Shesler, John J., 239 Riverdale av
 Thomson & Brown, 71 B'way
 Torkington, Samuel J.
 Wiggins, Lewis H. & Son, 24 N B'way

NORTH CAROLINA.

ASHEVILLE—Ball, Leroy
 Cauble, J. C. & Co.
 Guischart, Gus. L.
 Lindsey & Buchanan
 †McPherson, J. C.
 Moore Plumbing Co.
 Rich, J. R. & Son
 CHARLOTTE—Acme Plumbing Co.
 Anthony & Baker
 Breen, J. J.
 Carolina Plumbing & Heating Co.
 Hackney Bros.
 Haley, J. A.
 Willman, A. R. Co.
 DURHAM—Edwards, C. W. & Bro.
 Johnson, J. M.
 Richardson & Hunter
 Turner, James B.
 ELIZABETH CITY—Knowles, W. P.
 Lewis & Green
 FAYETTEVILLE—Smith, F. E.
 GOLDSBORO—Hobbs, Pike & Co.
 Slaughter, J. Co.
 GREENSBORO—Adams & Hunt
 Albright, J. E.
 Battle, C. W. & Co.
 Beasley, W. C.
 Harris, W. D.
 McKenzie, B.
 Rich, J. L.
 HENDERSON—Brown, C. R.
 Brown, O. R. & Co.
 Futrell, H. R.
 †O'Neill, M. J.
 Renn, A. S.
 HENDERSONVILLE—Cable & Allison Sanitary
 Edwards Hardware Co.
 McIntyre, J. W.
 Staggs, W. B. & Co.
 HICKORY—Cates Bros.
 HIGH POINT—Muse-Wellborn Supply Co.
 Standard Plumbing Co.
 Ward, J. R. Supply Co.
 KINSTON—Isler, S. H., Jr.
 NEWBERN—Green, J. C. & Co.
 Parker, S. B.
 OXFORD—Edwards, J. F.
 RALEIGH—Bowes, M.
 †Stevenson, T. S.
 Stunkel, W. A. & Co.
 Taylor, William
 Young & Hughes
 REIDSVILLE—Martin, White & Pettigrew
 ROCKY MOUNT—Branch & Thurman
 Rocky Mount Plumbing Co.
 SALISBURY—Cornellson, J. S.
 Gallimore, O. S.
 Gantt & Klutz
 Nicholson, W. S.
 STATESVILLE—Lamprecht, J. U.
 Monday & Ritchie
 THOMASVILLE—Rapp, Henry
 WASHINGTON—Harris, J. H. Plumbing & Sup
 Respass, John B.
 WAYNESVILLE—White, C. S.
 WILMINGTON—†Grant, R. H., 119 N Front
 Gregory, J. A.
 Griffith Bros.
 Holden, H. K.
 McCartney, J. C., 14 N 2d
 McCartney, R. R.
 Prease & Piver
 †Wilmington Iron Works, 19 S Front
 WILSON—Holler, A. W.
 WINSTON SALEM—†Brickenstein, L. B.
 †Crawford Plumbing & Mill Supply Co.
 McSwain, G. W.

NORTH DAKOTA.

BISMARCK—†Grambs & Wolbert
 Jones, W. S.

DEVILS LAKE—†Devils Lake Plumbing &
 Dunlap, Henry Heating Co.
 FARGO—†Fargo Plumbing & Heating Co.
 †Harrington, E. J.
 Riley, Thos. P.
 Thomas, D. W. & Co.
 Thompson & Sheehan
 DRAFTON—Loos, George
 GRAND FORKS—†Dixon, F. L.
 †Malone, Hugh F.
 †Paulsness, B. O.
 †Spriggs Bros.
 JAMESTOWN—Chenery & Anderson
 Sappenfield, Fred. W.
 Taylor, H. P. & Co.
 MANDAN—Keller, T. C.
 MINOT—Devereaux Bros.
 Dorman, D. C.
 McGraw Bros.
 Spriggs Bros. & Co.
 Steinhof & Van Slike
 WAHPETON—Jamieson, W. W.
 Orr, A. H.

OHIO.

ADA—Campbell, A. J.
 Cronbaugh Bros.
 AKRON—Akron Plumbing & Heating Co.
 †Cahill, H. P.
 Dauntless Mfg. Co.
 Eckert Bros. & Co.
 Forbes, John A.
 Hadfield, John
 †Heffernan, L. J.
 Heffernan, M. J.
 Hoffman, Charles W.
 †Kraus, Kirm Co.
 Limbert-Smith Plumbing Co.
 Mitchell, M. W. & Co.
 Nye, W. F. Plumbing Co.
 Stanford, L. E. & Co.
 Thomas, R. G.
 Whyler, Geo. A.
 Zindle, Gilbert
 ALLIANCE—De Venne & Co.
 †Ellis & McDonald
 †Love, Casselman & Co.
 †Scranton, Clarence
 †Whitla Plumbing Co.
 ASHLAND—Herschler, Albert D.
 Sheets, Sol.
 Soles Bros.
 White, Frank
 ASHTABULA—Burroughs, Earl M.
 Farrell, J. J. & Co.
 †Ford, Geo. H.
 Foreman, John
 McKinnon, W. S.
 Mills, A. D.
 Paine Bros.
 Smith, Frank E.
 ATHENS—Cook, R. S.
 †Demolet, Charles
 Hindle & Glock
 Ullom, G. W.
 BARBERTON—Barberton Hardware Co.
 Barberton Plumbing Co.
 Ferguson & Yackee
 BARNESVILLE—Hobbs, W. D.
 Timmons, H. D.
 BELLAIRE—†Fitton, James B.
 Johnson, R.
 McVey, John
 Porterfield Plumbing Co.
 Trisler Bros.
 BELLEFONTAINE—Barker, L. B.
 Davidson, R. B.
 Doll & Whitcomb
 Foulk, Wm.
 Rutledge, Pearl B.
 BELLEVUE—Decker, R. B.
 Reitz, E. C.
 BERE—Curtis, H. A.
 Weaver, J. M.
 BLANCHESTER—White, H. F.
 West, Howard
 BLUFFTON—Scheid, Theodore G.
 BOWLING GREEN—Campbell & Collier
 Marshall, James P.
 Ross, W. H.
 BRIDGEPORT—Hill, Charles J.
 Kuhn, William H.
 BRYAN—†Bryan Hardware Co.
 BUCYRUS—†Hilborn & Faulkner
 Jolly Bros.
 Meyer, Henry, Jr.
 BYESVILLE—Edwards, J. W.
 Lauer, True & Co.
 CAMBRIDGE—Branthoover & Johnson Co.
 Gerton & Medick
 Johnson & Armstrong
 Peoples Plumbing Co.
 CANAL DOVER—Belknap Plumbing & Heating
 Click & Co. Co.
 Harger, H. A.
 Kreamer & Weber
 Steitz, Albert
 Welton, J. A.
 CANTON—Ahearn, D. J.
 Canton Heating & Plumbing Co.
 Canton Natural Gas & Supply Co.
 Carpenter, C. & Co.
 Charnois, D. & O.
 Crow, John, 304 Brown av
 †Eynon, A. C. Plumbing Co., 125 E 5th
 †Fife Bros. Co., 212 E 8th
 †Hartung, Lewis B. & Co., 210 S Peidmont
 Hillblush & Son
 Mills, J. A.
 †Piper, F. R.
 †Ressler, George, 425 W 2d
 Sanitary Plumbing Co., 119 E 3d
 †Theobald, W. D. & Co., 204 W 8th
 Widder, F. E., 1719 Navarre
 CELINA—Gibney, T. J.
 Greek, J. F.
 Houser, J. N.
 CHILLICOTHE—Jardine, Graham & Co.
 Morgan, J. M.
 Ringwald, W. H.
 West, Wm. S. & Son
 CINCINNATI—Allen, E. W., 3311 Eastern av
 Ashcraft, Charles E., 903 Betts
 Attlessey, Wm., 819 Vine
 †Aylward, N. K., 744 W Court
 Beggs, Henry, 417 W 4th
 Biermann, Wm. A., 3244 Jefferson av
 Bohmer, Joseph, 144 E Court
 Boller, Adolph, 816 Clark
 Botley, Chas. L., 3544 Eastern av
 Botley, Wm. A., 238 E 2d
 Brinck, J. H., 2117 W 8th
 Brookbank & Tutin, 524 E Pearl
 Brunner, Jacob, 1905 Central av
 Burke, Michael, 423 E 5th
 Byrne, T. J., 240 Broadway
 Canary, Thomas, 204 W 7th
 Carroll, Robert & Sons, 626 Elm
 Cash & Williams, 2503 May
 Cluxton, Richard J., 3938 Spring Grove av
 Coffey, P. T., 1006 E 3d
 Corbett Bros., 713 Mound
 Cosgrove, John, 3710 Eastern av
 Crane, M. H. (Est. of), 326 W Pearl
 Cromwell, Fred., 1704 Baymiller
 Daly, Martin, 236 E 8th
 Dater, Edw., 1810 Elm
 Diehm, Albert J., 1527 Freeman av
 Dingler, Louis E., 1428 Cutter
 Donohue, William, 1833 Sycamore av
 Doud, James J., 313 E 4th
 †Douglas Plumbing & Heating Co., 8th &
 Duerr & Paul, 2538 Vine Plum
 Eckles, Geo. T., 3004 Colerain av
 Ehemann, H. W., 12 W Court
 Eilers, Bernard, 509 W Liberty
 Enright, John W. & Co., 714 Mound
 Feldkamp, Harry, 1514 Central av
 Felix, Edward, Jr., 653 W McMicken av
 Finneran, Joseph M., 506 John
 Fishing, Henry, 208 W 9th
 Fitzpatrick, J. P., 522 Broadway
 Frank, Edward, 3131 Reading road
 Freese, Henry, 454 W McMicken av
 Garrety, Edw., 605 W. 5th
 Garrety, John, 605 W 5th
 Garrety, Peter, 6th & Park
 Geller, Joseph F., 1696 Harrison av
 Geller, William C., 1600 Queen City av
 Gibson, James J., 714 Broadway
 Gibson Plumbing Co., 405 W 5th
 Gibson, Thomas Co., 633 Walnut
 Gibson, W. J., 318 W 4th
 Goldenberg, Joseph, 1047 W 6th
 Grosse, Julius H., 32 E 13th
 Hamburg, Henry, 2420 Clifton av
 Hamer, Frank G., 811 Elm
 Hanley, Edward J., 314 E 6th
 Happe, Wm. H., Clark & John
 Hayes, John C., 410 Plum
 Hendrixson, A., 1312 Central av
 Hengstenberg, J. & Co., 1003 Elm
 Herbert, J. G., 1619 Westwood av
 Higler, F. E., 2814 Woodburn av
 Hill, Jacob, 1612 Freeman av
 Hill, W. J., 4237 Kirby av
 Hillenbrand, Wm., 2307 W 8th
 Hollaender, Walter S., 1330 Race
 Homan, Charles, 2605 Vine
 Hopkins, L. P. Norwood, Sta. H.
 †Horvitz, S. & Co., 559 W 6th

Hott, David F., 2540 Vine
 Irwin, J. K. Plumbing Co., 1920 Vine
 Jacobs, Edw., 232 E University av
 Jenke, Samuel H., 132 E 9th
 Kemper, Wm. L., 3802 Spring Grove av
 Kenberg, Max, 630 Mound
 Klesewetter, George F., 1203 Freeman av
 Kline & Bernard, 274 Ludlow av
 Kline, Charles G., 423 W Court
 Kohlhas, Wm., 1604 Race
 Kronse & Harlow, 2505 Gilbert av
 Kusel, L. N., 504 Laurel
 Laile, Charles, Jr., 231 W McMillan
 Lamping Bros., 2733 Woodburn av
 Ladmann, John B., 108 E McMicken av
 Laure, W. D., 2701 Reading rd
 Lawson, Wm. & Bro., 804 Walnut
 Llechte, Albert, Elmwood pl, Sta. P.
 Light, William & Co., 508 E Pearl
 Love, F. L., 15 E Canal
 Lynn, T. D., 703 W 9th
 McCann, Joseph J., 102 E 3d
 McFee, Arthur, 319 E 3d
 McIntyre, James E., Madisonville, Sta. M.
 McIntyre, Terry, 2431 Gilbert av
 Meinken, Louis, 2176 Central av
 Mellor's, George Sone, Erie av c Edwards rd
 Miller, George, Jr., 3341 Vine
 Moeller, Frank A., 39 Calhoun
 Morgan, E. H. & Co., 3480 Reading rd
 Morledge, G. E., 456 E 2d
 Murdock Plumbing Co., 428 Plum
 Murphy, John J., 303 Main
 Murphy, Richard Plumbing Co., 328 E 4th
 Murphy & Ditchen, Edwards & Wasson rds
 Myers, Cornelius W., 2509 Kemper la
 Nicknure, W. H. & Co., 228 Post sq
 Myers & White, 210 W 3d
 Nell & Wegelin, 524 Elm
 Newman, Thos. J., 307 W 7th
 Newman, Wm. H., 737 W 5th
 Nieman, Andw., 303 E 5th
 Niemann & Hines, 1705 Madison rd
 Nienes, Henry, 4112 Hamilton av
 Niesen, Albert, 2017 Mohawk pl
 Niesen, Frank & Co., 1208 Sycamore
 Nolan, E. J., Plumbing Co., 604 Main
 Nolan, J. F., 1021 E McMillan
 Noll, Jno., 2869 Colerain av
 O'Hara, Thos. J., 946 Linn
 Parry & Edwards, 2455 Gilbert av
 Parvin, Francis M., 4917 Eastern av
 Peare, William E., 1428 Cutter
 Porter, Geo. W., 1008 Freeman av
 Reenan, Thomas, 235 E 3d
 Rickard Bros., 2352 Eastern av
 Ricketts, Wm., 213 E 4th
 Robinson, Charles, 328 John
 Ryan, A. J. Plumbing Co.
 Sanger, C. & Co., 1603 Madison rd
 Schanzle, E. A., 779 E McMillan
 Schaufert, John & Co., 266 Ludlow av
 Schlemmer, Louis, 4023 Spring Grove av
 Schlemmer, Oliver Co., 1050 Hulbert av
 Schlottman, Jos., 3210 Fairfield av
 Schmlidt, Robt., 1430 Sycamore
 Schmieg & Klasin, 3700 Montgomery rd
 Schneider, Albert, 19 Green
 Schneider, John, 826 Findlay
 Schneider & Ruskaup, 2310 W 8th
 Scholl, Frank, 1217 Harrison av
 Schonhoff, H. A., 1233 Main
 Schwartz & Robien, 931 W 8th
 Sells, Frank, c Highland av & Donahue
 Simon, Jno. N., 6 E Liberty
 Shields & Dutle, 234 4th
 Stark, Henry J., 2018 Vine
 Stewart, S. B., 237 E 3d
 Story, John Plumbing Co. (Inc.), 7th & Free-
 Strassberg & Callahan, 542 W 9th man av
 Sutkamp, H. H., 1206 Linn
 Taubald, George, 3484 Reading rd
 Thinnas, John, 1813 Elm
 Trinkle, F. W., 2137 Central av
 Vance & Love, 15 E Canal
 Vearing, Fred., 2161 Gilbert av
 Vogelpohl, J. J. & Co., 4158 Hamilton av
 Wagner, Wm. F., 2852 Colerain av
 Waltermann, Bernard, 1414 Main
 Wanner Bros., 1230 Vine
 Wanner, William, 1718 Vine
 Weber, Chas. & Sons, 714 Freeman av
 Welsh, William, 36 W 12th
 Western Plumbing Co., 1715 Elm
 Wielert, Henry, 1510 Vine
 Young, George W., 14 Findlay
CIRCLEVILLE—Crist, Edw.
 Hoffman, Brown & Wilson
 McMullen, G. J. & Son
 Murray, Wm. M.
CLEVELAND—Alken, H. W., 1873 Pearl
 Armour, Chas. E., 1501 Harvard
 Bacher, Aug. L., 1231 Prospect, S. E.

Barth, C. (Est. of), 2234 Fairfield av, S. W.
 Bause, A. J., 2339 E 89th
 Begley, Thomas F., 1356 E 82d, N. E.
 Benhoff, Edw'd fl., 2850 W 25th, S. W.
 Blaha, John B., 2561 E 46th, S. E.
 Bogue & Oates, 571 Detroit
 Born Plumbing & Htg. Co., 1760 Crawford rd
 Bosworth Hardware Co., 5603 Euclid av
 Boyer, A. E., 4507 Central av, S. E.
 Brettin, Frederick, 1156 Harvard av, S. E.
 Bropson, James, 7603 Detroit av
 Brown, Thos. J., 8214 Quincy, S. E.
 Bryar, Simon, 3033 Woodland av
 Burrows, S. W. Co., 5300 Euclid av
 Carothers, A. A., 1387 E 9th, N. E.
 Carroll, Daniel A., 6406 Woodland av
 Carroll & Gessert, 662 Lorain
 Clark, Cassius O., 8419 Quincy, S. E.
 Claus, Albert, 3 Bolivar
 Cleveland, Wm. H., 2821 Central av
 Croft, J. L. & Co., 1308 Addison, N. E.
 Curtis, Emmett A., 1339 E 115th, N. E.
 Daykin Bros., 383 Pearl
 Daykin Plumbing Co., The, Schofield bldg
 Deisher, F. C., 10104 Olivet av, N. E.
 Desnoyers, Damas B., 1306 E 92d, N. E.
 Desnoyers, Peter & Son, 3302 Central av
 Dettelbach Plumbing & Heating Co., 2939
 Woodland av, S. E.
 Dewitt Bros., 1036 Woodland av
 Dewstoe & Brainard Co., 2076 E 22d, S. E.
 Drees, Jno. F., 814 Lorain
 Dunn, Jno. B., 301 St. Clair, N. E.
 Dunn, Peter, 4047 Superior, N. E.
 Eckerman Heating, Plumbing & Supply Co.,
 Egan, Jas. J., 6527 St. Clair 1026 Lorain
 Ellen & Norris, 4714 Central av, S. E.
 Elligott, Jno. R., 2805 Superior, N. E.
 Exl, Edw., 3314 Woodland av, S. E.
 Feller, William J., 5828 B'way, S. E.
 Fetterman, Adam J., 2918 Bridge av, N. W.
 Fetterman, Louis R., 8605 Clark av, S. W.
 Fish & Wight, 3787 W 25th, S. W.
 Forest City Gas Fitting & Supply Co., 7314
 Fullerton av, S. E.
 Fraw, Edward C., 1687 E 86th, N. E.
 Fulbrecht, Wm. R., 8109 Townsend av, S. E.
 Gleeson & Papworth, 5808 Euclid
 Goldfein, H. & Son, 1909 Woodland av, S. E.
 Graves, John J., 1006 Superior
 Greene, Robert E. & Son, 573 Detroit
 Haley, D., 510 St. Clair av, S. E.
 Hallock & Bingham, 1707 E 55th, N. E.
 Hallaran, Wm. R., 2337 E 37th, S. E.
 Hausmann, Adam G., 3756 Scovill av, S. E.
 Healy, John J., 1845 St. Clair, N. E.
 Healy, Stephen, 13 Buell
 Henderson, Wm. H., 320 Prospect
 Herringshaw, G. H. Co., 793 Woodland av
 Hildebrand, Frank, 9518 Cedar av, S. E.
 Hill, Edw. E., 8346 B'way, S. E.
 Hlavin, Frank, 5747 B'way, S. E.
 Hope, Frank G., 10404 Euclid av
 Humphrey, W. D., 2489 E 71st, S. E.
 Irev & Smith, 6626 Wade Park av, N. E.
 Jepson Bros., 669 Eddy rd, N. E.
 Jones, Evan M., 10115 Detroit av, N. W.
 Kadlecck Plumbing & Heating Co., 5365
 B'way, S. E.
 Kalous, Frank & Sons, 4410 B'way, S. E.
 Keiper, John J., 5415 St. Clair, N. E.
 Keiper & Gould, 10408 St. Clair, N. E.
 Keller, C. C. & Bro., 11821 Euclid av
 Kelly, Jno., 8231 Central av, S. E.
 Kelly, Wm. A., 2105 E 30th, S. E.
 Klein, Jacob, 2424 Woodland av, S. E.
 Knoll, J. N., 111 Merchant av
 Koblitz, I. & Son, 1305 Prospect av, S. E.
 Kobs, A. J. & F., 2246 Pearl, Bkln.
 Kohls, Richard & Co., 1231 Pearl
 Lane & Umbaugh, 10406 St. Clair av, N. E.
 Lehder, Emil, 3553 W 25th, S. W.
 Lenk & Weingardt, 1169 Pearl
 Lindsay, John, 2144 Prospect, S. E.
 Lynn, Jacob B., 10314 Superior av, N. E.
 McDermott, Peter J., 4528 Lorain av
 McDermott, Thos. P., 2452 Superior av, N.
 McDonald, Earl M., 5228 Lorain av W.
 McGrath, Thomas, 10307 Superior, N. E.
 McGuire, Peter, 7616 Carnegie av, S. E.
 McKay, John M., 1425 E 9th
 McMahon, R. F. & Co., 8025 Wade Park av
 McReynolds, Edson L., 8213 Cedar av
 Manney, Frank E., 7322 Lorain
 Mans, Henry, 7218 Central av, S. E.
 Martens, G. C. & Co., 4126 Lorain
 Miller, Fred'k G., 4746 B'way, S. E.
 Narpes, Wm. H., 925 Orange av, S. E.
 Newman, Herman, 2186 Ontario
 Nitchke, Robert, 2727 W 25th, S. W.
 Nitschke, Wm. G., 2644 W 25th, S. W.
 Nixon, John W., 337 Frankfort av, N. W.
 Nollan, Peter E., 8801 Superior, N. E.

O'Donnell, Walter T., 2435 Superior av, N.
 W.
 Parker, A. A., 3932 Superior av, N. E.
 Patterson, H. A., 10318 St. Clair av, N. E.
 Pence, Ira W., 1760 W 25th, N. W.
 Plagman, Henry T., 4025 Clark av
 Perry, Frank C., 6723 St. Clair
 Petro Bros., 9011 Buckeye rd, S. E.
 Pickett, Philip J., 7407 Superior
 Poplowsky Bros., 1715 Scovill av, S. E.
 Poplowsky & Hirsch, 1414 Prospect, S. E.
 Pfriem & Bauck, 7509 Kinsman, S. E.
 Richter, Jacob F., 2341 St. Clair, N. E.
 Roach, M. T., 6111 Woodland av, S. E.
 Roberts, D. H., 10303 Euclid av
 Roth, Alex. C., 3115 W 44th, S. W.
 Runser Plumbing & Heating Co., 7553 B'way
 Rutenbeck & Son, 2714 W 41st, S. W.
 Schneider Plumbing Co., 2024 Euclid av
 Schriner, Bernard, 2021 W 25th
 Schwartz & Kraus, 3710 Woodland av, S. E.
 Schwartz, Leopold, 3921 Central av, S. E.
 Scott, Ed. A., 9609 Madison av, N. W.
 Seamens, Jay T., 989 Potomac av, E. C.
 Seifried, Charles F., 8510 Hough av, N. E.
 Smith Bros., 8820 Wade Park av
 Smith & Oby Co., 2164 E 9th
 Stein, Morris, 481 Woodland av, S. E.
 Stewart, H. G. & Co., 10505 Superior av,
 Stoneman Co., The, 960 Woodland av
 Strever Plumbing & Heating Co., 1603 Pros-
 pect, S. E.
 Sweesy, H. S., 8518 Hough av
 Taylor, Robert, 1199 Lorain
 Thomas, Lucien E., 5713 Woodland av, S. E.
 Thomas, W. C. & Co., 1525 Prospect, S. E.
 Trunk & Wilkins, 6321 B'way, S. E.
 Turnbull, P. J., 1703 W 25th, N. W.
 Unkefer & Co., 201 Huron rd, S. E.
 Vandas, Albert J., 3950 B'way, S. E.
 Wadsworth Plumbing Co., 79 Michigan
 Walker, John W., 10614 Superior, N. E.
 Walker, Joseph F., 6905 Cedar av, S. E.
 Warden & Leese, 2221 E 9th, S. E.
 Weigel, Robert, 8609 Lorain av
 Weiss & Schmitzer, 5011 Scovill av, S. E.
 Welker, C. F., 9006 Cedar av, S. E.
 Werle, Wm. F., 2631 W 14th, S. W.
 Yahraus, John H., 3803 B'way, S. E.
 Zellers, Geo. & Co., 5803 Woodland av, S. E.
CLYDE—Forgerson, Thos.
COLLINWOOD—Hindson, Thomas
 Skinner & Richards Co.
 Wherry, H. M.
COLUMBUS—Austin & Bartholomew
 Brintlinger & Son
 Clay, Jno.
 Columbus Plumbing Co., 966 N High
 Cooper & Hilt
 Coy, Geo. E., 69 N Washington av
 Dolan, J. J., 488 Mt. Vernon av
 East End Plumbing Co., 619 E Main
 Elchenlaub Bros., 33 S Scoto
 Engler & Herron
 Esswein, Samuel A., 24 W Broad
 Farley, C. I.
 Farrington, J. T.
 Fischer & Blair
 Fitzpatrick & Hoepfner, 69 E Gay
 Fortner & Lane, 500 S High
 Gattrell, Harry E.
 Gehr, Peter, 1104 Oak
 Haering Plumbing Co., 327 S High
 Huber, Charles & Sons
 Huffman-Conklin Co.
 Hyman, Edward
 Kegemeyer & Essman
 Kelly, J. N.
 Klie Plumbing, Heating & Electrical Co.
 Knoderer, Levi F.
 Knoderer & Doescher, 118 E Main
 Koch, W. F., 186 S 6th
 Koehl & Mansfield
 Lewis, Danl. D., 379 E Long
 Lewis, Richard D., 956 W Broad
 Loos & Reynolds, Oak c Parsons av
 McNamara, E. J., 46 E Gay
 Moler, W. V., 161 N Wall
 Munk & Seddon, 39 E Town
 Needles & Barnes
 Nicholas Plumbing Co., 40 W State
 O'Neill, Hugh H.
 Ranger, Alpha R., 684 E Long
 Richards Plumbing Co.
 Roberts Plumbing Co., 945 Mt. Vernon av
 Rogers & Davis
 Saunders & Foote
 Stai Plumbing Co., 391 S High
 Strobes, J. A., 459 Charles
 Tyler, C. A.
 Vickers, George
 Wheeler, Harry D.
 Williams & Bebb
 Winn, W. T., 106 S Champion av

Wueliner & Thredo
Yates, C. N.
CONNEAUT—Burrell & Kehoe
Fortune, William
COSHOCOTON—Corder, William
Helman, Chas.
McNary, C. A.
Milligan, J. C.
CRESTLINE—Burgert, J. W.
Langeil, E. W.
DAYTON—Birkett, Jno. C., 40 E 2d
†Brooks Son, 42 N Jefferson
†Buckeye Plumbing & Heating Co., 19 W 2d
Caulfield Bros., 1327 E 3d
†Congdon, Geo. E., 413 E 5th
†Danner & O'Leary, 214½ N Main
Dayton Plumbing Co., 904 S Brown
†Fauver & Co., 1103 E 5th
†Gibbons, M. J., 20 W 3d
Glenn & Schmidt, 800 N Main
†Haas, Philip & Wm., 429 E 3d
†Hamm, Edward F., 813 E 5th
Hanaghan, T. A.
Hoerner & Keller, 307 W 3d
Horne, E. L.
†Lehman, B. L.
†McDermont & Clemens, 28 N Jefferson
McGrath, H. P., 218 E 3d
†Meyer & Hochner, 506 S Wayne av
Nash, Richard, 1901 E 5th
†Pickrel & Ratchford, 123 N Valley
†Riley, Jno. L., 929 E 5th
†Rltchie, J. B., 535 E 5th
Ryder, Richard P., 17 N Madison
†Shoup, W. U., 407 S Wayne av
†Staniland & Schnehle, 232 S Main
Strassberg & Ford, 2010 E 3d
†Ware & Moodie, 128 S Jefferson
Weber, Wm. J., 1143 W 3d
DEFIANCE—Noffsinger, A. V.
Schultz, Edw'd A.
DELAWARE—Clark, T. S.
Delaware Water Co.
Greenert, J. A.
Karl, F. B.
Marnell & Williams
Smith, D. R. & Co.
DENNISON—Hite, Fred.
O'Conner, J. J.
Wollbold, H. N.
EAST CLEVELAND—Stafford, Irving
Windermere Plumbing Co.
Wherry, Harry M.
EAST LIVERPOOL—†Arhuthnot & Bro.
Burrows, A. C.
Darrah & Murray
Davidson, B. F.
Hall, Samuel
Jones, J. W.
Jones & Morgan
King, T. C.
Kinsey Plumbing Co.
†Martin, W. J.
Nagle, T. E.
Porter, J. H.
Rietzke, J. W.
Zents, Louis A.
EATON—†Bender, L. P.
ELMWOOD PLACE—Forsyth, Wm. J.
ELYRIA—†Elyria Hardware Co.
†Foley, M. W.
Goodwin & Schmittgen
Lucas, J. A. Co.
McVey & Pitts
Thompson, John H.
Van Tassell Bros.
Weaver, C. O.
FINDLAY—†Behm, Aura & Co.
†Coates, N. G. & Son
Duff, J. B.
Fry, M.
Moffatt, J. L. & Son
Remminger, Samuel E.
Schwah, Frank S.
Thomas, W. L.
Thompson, William
FOSTORIA—Fink, Geo. M.
Sparks, George H.
Swanson, W. H.
FRANKLIN—McCarthy, Joseph
FREMONT—Fey, Adam
Held, George, Jr.
Smith Bros.
White, J. P.
Younkman Bros.
GALION—Amick, H. G.
Helcher, Chas. & Sons
Resch & Casey
Zimmerman, J. H.
GALLIPOLIS—Gallipolis Plumbing & Supply Co.
Keller, Thos. J. & Co.
Miller, G. W. & L.
GLENNVILLE—(See Cleveland)

GLOUCESTER—Phillips & Mingus
GREENFIELD—Cox, T. E.
GREENVILLE—Beedle, Chas. F. & Son
Manix, J.
Ream, D. P.
Whitely, Joseph
HAMILTON—Betscher, Louis
Ferber, Jos. & Bro.
Graf, William A.
†Henn, John P.
Leacock, David
Schaub, Louis B.
Thompson, Harry J.
†Walker, John L. Co.
HARTWELL—†Gates, Edwin F.
HILLSBORO—Foley, J. M.
Ramsden, James
HYDE PARK—(See Cincinnati)
IRONTON—Frecka Bros.
Maine, William
Meyer, Geo. A.
Neekamp, Carl
Owrey, William H.
JACKSON—Harper, Frank
KENT—†Costley, W. G.
Ruggles, T. G.
KENTON—Cullen, M. W.
†Heath, C. L.
Herran-Wagner Co.
†Humphreys, E. C. & Son
†Lent Plumbing & Heating Co.
LAKEWOOD—De Witt, Wm. J.
Knabel & Cole
Lakewood Plumbing Co.
Stephens Bros.
LANCASTER—Ash, Harry
Lutz Bros.
Miller, A. G.
Mott, W. H.
Miller, Hugo
Work, Joseph
LEBANON—Lebanon Plumbing Co.
Pflanzer, W. J.
Sabin, W. E.
Thompson, F. B.
LIMA—Ashton, C. F.
Bower, D. L. & Co.
Johns, T. B. & Co., 211 S Main
Lima Plumbing & Heating Co.
Scheid, Theo. G.
Schilling, J. F.
Tuttle, E. L.
LISBON—†Armstrong, P. M. & Co.
†Briggs & Morrow
Hollinger, Bert
LONDON—Kulp, C. S.
Needs, Milton
LORAIN—†Allen, N. C.
Beers & Sellett
Butler, Thos. F.
Eddy & Moore
Fillgrove, August
Hogan, J. H. & Co.
Kohlmyer, F. W.
Lehman, Hessell & Co.
Lane-Bowen Co. (The)
Lewis, E. D.
McCONNELLSVILLE—Smith, A. L.
MADISONVILLE—Blaney Pimhng Co.
McIntyre, Jas.
MANSFIELD—†Bell, H. M.
Cheny & Carson
Crouse & Son
†Dickman, F. G.
Donaldson, G. W.
Harris, R. J.
Harris, Wm. M.
†Hoffman, Chas.
Malone, E. F.
†Mansfield Plumbing & Heating Co.
†Runyan, C. C.
†Schisler, Geo.
Taylor & Son
MARLETTA—†McMilln, M.
Metcalf Bros.
†Stanfield, G. A., 138 Putnam
MARION—Bentz & Court
†Cunningham, T. M.
Bindley, R. I. & Co.
Fleischer, Michael
Frye, W. E.
Probst Bros.
MARTINS FERRY—Acres, T. H., Jr.
Brown, J. C.
Grayson, H. B.
Hayne, J. C.
MARYSVILLE—†Church Bros. & Weld
†Scott, O. M. & Bro.
MASSILLON—Dillon, Thomas J.
Dunham, D. G.
Justus, F. W.
Paul, A. J.
Pinkle & Gleitsman

Smith, Budd & Co.
Smith, J. R.
Taggart, E. C.
MEDINA—Oatman Bros.
MIAMISBURG—Bauer, A. E.
Miamisburg Plumbing & Heating Co.
MIDDLETOWN—†Arpp, John
†Drayer, W. H.
†Mosier, John S.
†Slack, R. H.
MILLERSBURG—†Simon, V. J.
MINGO JUNCTION—Frazier & Longacre
MONTPELIER—Rothenberg, A. P.
MOUNT GILEAD—†Holt & Buxton
MOUNT VERNON—†Clark, George N.
Devoe, J. F.
Gantt, Ralph
Hill, Harry W.
McCormick & Robinson
Snow, C. G.
Turben & Graham
NAPOLEON—Groenwold, Frederick
Hanna, O. C.
NELSONVILLE—†Sharp, James
NEWARK—Dicks, James A.
Evans, Fred. C.
Foster & Teaff
Harrington, F. J.
†Henderson, W. J.
Keller, T. H.
Murphy & Pryor
Nutter, Charles D.
Pryor, J. J.
Rhors & Whorley
Sayre, Henry
Seward Bros.
Steam, George T.
Wollard, Frank T.
NEW PHILADELPHIA—Goodwin, Edward
Mooher, Frank
Nolan, D. L.
†Taylor, O. P. & Son
Wenger, Chas. A.
NILES—Niles Plumbing & Heating Co.
Ohl, H. C. & Co.
Unger, F. S. & Co.
NORTH BALTIMORE—Campbell, C. E.
NORWALK—†Dunmore, Thomas
Dunton, Wm. A.
Gfell, J. H. & Co.
Poole & Wilkinson
NORWOOD—Carroll, Robert & Sons
Hopkins, Langdon P.
Malden Bros.
Rebisso, L. T., Jr.
OBERLIN—Edwards & Son
Watson & Thompson
West Plumbing & Heating Co.
ORRVILLE—†Eshelman & Bechtel
OXFORD—Tucker, W. H. & Son
PAINESVILLE—Baldwin, James A.
Hawkins Bros. Co.
Joughin, John
Keefe Plumbing Co.
Robinson, Jno. T. & Co.
PIQUA—Frederick & Gerstmeier
Kloeb, J. A.
Lee, Geo. E.
Manier Plumbing & Heating Co.
Miami Valley Plumbing & Heating Co.
Piqua Plumbing & Heating Co.
Redman, W. W.
Stevens, A. E.
Woodcox, J. N.
PLEASANT RIDGE—Simpson, William M.
POMEROY—Chase, T. J. & Son
PORT CLINTON—Miller, Fred.
Semon Bros.
PORTSMOUTH—Burt, Frank B.
Grimes-Kellhofer Co., The
Harris, George H.
Harris & Kain
Lawson, Thos. B.
Ruhlman Bros.
Saunders & Watrous Co.
Stamm, Charles P., 213 Market
†Watkins, Thomas W.
Weller Bros. & Co.
RAVENNA—†Jenson, Andrew
Ravenna Plumbing & Heating Co.
Skeels, M. C.
†Sorensen, John
READING—Uehlin, Louis
RIPLEY—Cradit, S. B.
SAINT MARYS—Gross, E. F. & Son
Hughes, Chas. P.
Loshier, L. M.
SALEM—Alman & Co.
Salem Hardware Co.
Salem Plumbing Co.
†Thomas, W. B.
SANDUSKY—†Aish & Rehnheimer
†Bauer & Center

†Brohl & Appell
Free & Wetzler
Larkins & Zoellner
†Sandusky Plumbing & Boiler Co.
†Schnaetter, C., Jr.
SHELBY—†Doty, D. M.
Rice, William H.
†Roemer, Julius
Sigler, James D.
SIDNEY—Kingseed, Louis V.
Purnell, S. E.
Sargent, C. R.
Wagner, Jacob
SPRINGFIELD—Cavanaugh & Co., 71 S Limestone
stone
†Desormoux, F. & Co., 33 S Fountain av
Haucke, Geo., 191 W Main
†Higglus, Bernard, 71 S Limestone
Krumholtz, Jas. P., 28 N Center
†Mitchell Bros., 77 W Main
†Ridenour, Chas. E. & Co., 37 W High
Union Plumbing Co.
†Willis, R. P. Co., 26 S Limestone
STEUBENVILLE—Beans, Charles T.
†Cox, Robert R.
Frazer & Longacre
Freshwater, R. H.
Hamilton, John T.
†Hare, F. A.
Helmes, A. M.
Russell, J. E.
Smith, E. E.
Spindler, Adolph
TIPPECANOE—†Baxter & Brown
Crooks Bros.
DeBusnan & Hennes
Kreider, Charles & Son
Kuder, B. F.
TOLEDO—Bauer, Alfred E., 1016 Monroe
Bersticker Bros., 139 Maumee av
Blitter, W. J. & Co., 508 Cherry
Bolly, Walter H., 315 Main, E. S.
Brookins, Matthew G., 1149 W Bancroft
Brooks, John A., 324 W Bancroft
Carsten, C. H., 1068 Norwood av
Coghlin, Frank, 306 Main
Condit, W. E., 1532 B'way
Connell, P. H., 2009 Monroe
Cook, Jacob, 412 Main
Davis, John L., 2665 Monroe
†Densmore & Co., 1102 Adams
Duffy, Henry J., 1427 Cherry
Eagan Bros., 237 Erie
Eddy, H. G., 522 Main
Felt & Felt, 1305 Dorr
†Friedrichs, August, Jr., 1208 Adams
Gilsdorf, Geo. J., 1318 Adams
Glakens & Boes, 817 Monroe
Groenewold & Lang, 18 St. Clair
Harlan, Frank, 608 Superior
Hurst, John J., 1312 Erie
†Keller, Henry
Kelley, Chas. & Co., 811 Madison av
†Kern & Tutting, 711 Huron
†Kewley, Thomas, 909 Jefferson av
King, Jabez W., 828 Oakwood av
†Lawrence, J. P., 403 Irving
†Locke & Schultz, 331 Huron
†McLennan, Allen
Marker, D. C., 319 E Bancroft
Meissner Bros., 130 Superior
Miller, Frank, 1528 B'way
Moore, Albert G., 2959 Monroe
Mussbach, Gustav, 717 St. Clair
Myers, Martin E., 811 B'way
Pressler, John A.
†Raitz, Robert & Co., 633 St. Clair
Reeves Gas Engine & Motor Works, 923
Ryan, James F., 2253 Kent Washington
Schelling-Forest Co.
Slmard, Frank E., 1323 Washington
Sweatman, J. E., 1825 Adams
Swigart, Park H., 570 Prouty av
Teal, Harry C., 340 Erie
Test, F. B., 1509 Adams
†Wacker & Jackson, 613 Adams
Waite, J. A., 419 Madison
Warnke, Fred'k W.
Weaver, John W., 2021 Adams
TORONTO—†Horne, Thomas
Kettle, Jas. F.
TROY—Cosley, H. A.
†Hatfield & Scott
Kauffman, Charles E.
UHRICHSVILLE—Carver, D. D.
Stewart, A.
UPPER SANDUSKY—Beidler, Frank
†O'Brien, Thomas
Scheufler & Harman
Steinbach, J. L.

URBANA—Black, W. M.
Roberts, H. W.
Sweeney, D. J.
VAN WERT—Newforth, F.
Pennell, Willard
Uncapher, Charles
WAPAKONETA—Doering, J. H.
Foos & Wehner
†Kolter, Fred E. & Son
WARREN—†Augstadt, G. W. Co.
†Henderson, W. M.
†Smith, H. S.
Warren Plumbing & Heating Co.
Watmough, Wm.
WASHINGTON COURT HOUSE—†Allan, Chas.
Jenny, H. M.
Schneider, D. W.
WAUSEON—Harper, F. R.
Harper, W. J.
Hill, Earl H.
WELLINGTON—†Pierce, A. H.
WELLSTON—Bothwell, E. F.
Bright, W. H.
Hemerly, William G.
Wellston Plumbing & Machine Co.
WELLSVILLE—Almon, H. F.
Byers, William
†Dennis, A. P.
Miller, Charles
Wilkins, F. W.
WESTERVILLE—Alexander Bros.
WILMINGTON—Breeze, F. J.
Hyatt, C. C.
WOOSTER—†McClure & Co.
Scott, Chas. R.
Tieche, J. C.
WYOMING—†Hettemes, John F.
Sears, C. L.
XENIA—Baldner & Fletcher
North, John A.
Snead, Robert H.
YOUNGSTOWN—Brenner, Jacob
Burnett, W. H. Co.
Carroll, W. T.
Coughig, William G.
Hoffman Plumbing Co.
†Jacobs-Roland Co.
†Johnson, S. E. & Co.
†Kaifer, W. D.
†Kist Bros.
Laughlin Bros.
†Little, C. J.
Peterson & Wire
Saal, G. A.
Scheible, L. B.
†Scholi & Semple Co.
Sprague, A. W. Co.
†Stambaugh-Thompson Co.
Vinopal Bros.
Weinberg Bros.
Wilson, C. W.
ZANESVILLE—Beckert Bros.
Bohn, Henry
†Bohn & Kerr
Lasure, W. J.
†Le Roy, J. A.
Newey & Bartholomew
Porter, Albert
†Rockel, H.
†Sunkel Plumbing Co.
Sunkel & Shearer

OKLAHOMA TERRITORY.

CLEVELAND—McClain, A. G.
EL RENO—Arrington & Foster
ENID—Black & Hamilton
Desmond & Co.
Frantz Hardware Co.
Hamu, J. A. Plumbing Co.
Thompson & Banner
GUTHRIE—Guthrie Plumbing & Heating Co.
Lohr & Trapwell
Powers, W. F.
Roads, J. M.
HOBART—Roland, Jno. G.
LAWTON—Ennis, Don
Hannan, F. B. & Co.
OKLAHOMA—Binns, A. F.
Crowder, C. A.
Griffith, T. J.
Hanson, Gus
Parker, Frank
Pettee, W. J. & Co.
Rice & Bolsmier
PAWNEE—Turner, Joseph
PERRY—Perry Plumbing Co.
PONCA—Crocker Bros.
McKee, J. E. & Son

SHAWNEE—Newman Plumbing Co.
Roesch Plumbing Co.
Vegliard Plumbing Co.
Wade & Branch
Warren & Hutchins
STILLWATER—Frazer, Kelly & Moore Mercantile Co.

OREGON.

ALBANY—Ludwig, Martin
ASHLAND—Gallant & Perkins
Provost Bros.
ASTORIA—Law, W. C. & Co.
Montgomery, E. T.
Smith, W. N.
†Willet, S. H.
BAKER CITY—†Basche-Sage Hardware Co.
Bishop, F. W.
Bowen & Gleason
Caldwell & Hampton
Fish, A. J.
EUGENE—Aya & Heitzman
Hall & Shumway
Long & Cross
GRANTS PASS—Coron, E.
LA GRANDE—Melville, J.
†Murphy, Mrs. C. W.
O'Neil, G. W.
OREGON CITY—Gadke, F. C.
Mihlstin, A.
†Pope & Co.
PENDLETON—Clarke, W. J. & Co.
Sharon & Eddings
PORTLAND—Barrell, Coburn, Jr., 47 Union av
Beers, A. J.
Bohlman, H. C. & Son, 46 9th, N
Bohren, E. A.
†Brady & Sherrett, 142 1st
Brandorf, P. A., 510 Williams av
Brown, H. & Co., 184 4th
Bruce, H. L., 226 1st
†Claussenius, Herman & Son, 415 Wash'n
Connolly & Wlsc, 224 Main
†Donnerberg & Rademacher, 129 4th
Eccles, Wm. & Co., 386 Washington
Elder, A.
Evans, T. A., 999 Belmont
Flanagan Bros. & Co.
Fox & Co.
Gillan, Robert, 386 Morrison
Hoffman, Thomas
Howard, A. L., 422 Washington
Jacobsen-Bade Co., 431 Washington
†Johnston, T. J., 209 Washington
Libby, L. H., 1005 Belmont
Lokey, Henry, 493 Gilsan
†McPherson, W. G. Co., 47 1st
Mitchell, Malcolm, 288 Russell
Muirhead, Wm., 441 Wash'n
†Muirhead & Murhard, 361 Stark
Nedvideck & Watkins
Petsch, C. F., 643 Umatilla av
Quackenbush, Roy, 270 Oak
Rowe, T. J., 112 Grand av
Ruedy Bros.
Rushlight & Luther, 389 Hawthorne av
Schade Bros., 101 Russell
Schwarz, Geo., 405 E Morrison
Senn, Theo., 652 1st
†Shea, J. F., 10 2d, N.
Singer, B., 453 Washington
Spees & Smith
Spreadborough, T.
Stark-Davis Co.
Swint, Henry, 352 E Burnside
Taylor & Stanton, 88 6th
Tilden, J. E.
Traynor, G. M., 245 Russell
Williams & Beggs
SALEM—Barr, T. M.
Bernardi & Dunsford
Fraser, A. L.
Petzel, M. J.
THE DALLES—Rath & Kirchoff

PENNSYLVANIA

ALLEGHENY—Ackley Bros., 1601 Beaver av
Allegheny Plumbing Co., 419 Union
Arthur, Samuel, 523 W Diamond
Aumick, O. R., 191 Woodland av
Barr Bros., 2023 Beaver av
Beam, M. H., 632 Preble av
Bell, Robert J., 12 Lacock
Benney, James E., 700 Taylor av
Billings, Wm. J., 2126 Perryville av
Bloedel, H. R., 408 Chestnut
Bradley, Wm., 209 Ohio, W.
Brindley & Mushrush, 1127 Penna. av
Brose, Albert E., 1009 Grant av
Brown, Thomas, 27 Lacock

†Burry, Geo. & Bro., 841 Washington
 Carson & White, 1827 Perrysville av
 Deer, A. J. & Co., 421 Sandusky
 Dempsey, Wm. J., Perrysville & Wilson avs
 Dilworth, L. & Bro., 15 Lacock, E. A.
 Droste, Charles, 804 Jackson
 Durbin, Thomas H., 50 Woods Run av
 Fisher, Chas. A., 140 McClure av
 Flannigan, Edw. T., 1404 Irwin av
 Fleischel, Frank J., 1100 Main
 Friskorn, G. F., 1518 Beaver av
 Gow, Hy. C., 22 N Diamond
 Graham, Jas. L., 2539 Perrysville av
 Gray, Frank, 1231 Penna. av
 Hastings, David, 16 N Diamond
 Hay, Hugh M., Ridge av & Rebecca
 †Hay, James Co., 214 Ohio
 Heid, John B., 1609 Lowrie
 Hoag, J. V., 209 Jackson
 Horner, John McF., 305 Sandusky
 Hunter, H. C., 928 Rebecca
 Isherwood, Jos. A. Co., 718 E Diamond, E.A.
 Keane, Jno. H., 655 Preble av
 Keown, Wm., 218 Sandusky
 Kincaid, Harry C., 132 Taggart
 Kleiman, Henry, 714 Cedar av
 Leisinger, Jacob, 1501 East
 Ley, Jno. H., 31 Sp. Garden av
 McBride, J. K., 1312 Beaver av
 McKaig, James, 220 Ohio, E.
 McKissock, Jno. L., 905 James
 McKissock, Wm. T. M., 208 Park Way, W.A.
 Mann, Ira A., 17 Park Way, W. A.
 Meiser, Wm. P., 1404 Lowrie
 Meldon, Frank B. & Son 2320 Perrysville
 Munden & Addy, 102 Erie, W. A. av
 Raehn & Co., 514 Ohio, E.
 Redenbaugh & Co., 1003 Brown
 Reel & Michaels, 604 Arch
 Riddle-Tate Co., 912 Federal
 Ross, Louis A., 1319 Lake
 Rowbottom, Wm. E., 1713 Beaver av
 Ruehl, John H. F., 1228 California av
 Sauer, John A., 909 Western av
 Sauer, W. N. Co., Bessemer bldg
 Scanlon, Thos. F., 1405 East
 Schleuning, H., 1315 Federal
 Smith, Wm. G., 906 Western av
 Struss & Maiser, 712 Ohio
 Sulzer, Jno. R. Sons, 808 Ohio
 Teckemeyer, Harry G., 3939 Perrysville av
 Urquhart, Jno., 1804 Beaver av
 Weber, Ed. C., 3647 California av
 Wey Bros., 707 Middle
 Winkelman & Co., 706 East
 Young, H. E., 1824 Brighton rd
 Zilliox, A. J., 1921 East
ALLENTOWN—Addis, Chas. A., 126 N 8th
 Birchall, Jno., 715 Linden
 †Bitterling, John C., 951 Hamilton
 Christ & Beidler, 22 N 6th
 Dech & Nagle, 729 Linden
 Evans, Edwin B.
 Fried & Stoneback
 Gackenbach, W. A.
 Gehman, Charles J., 115 N 12th
 Haines, A. E.
 Hanlon, Patrick F., 403 N 2d
 Jones, Albright & Co., 235 N Madison
 Knauss, Edgar W., 113 N 9th
 Kramer, Chas. H., 123 N 7th
 Laudenslager, Chas. J., 502 N 9th
 Morrel, Charles
 Reichard, Jno. T., 444 Lehigh, S. A.
 Scholl, Harry G., 42 N 2d
 Seagreaves, Koons & Co., 136 N 7th
 Shafer & Willenbecher Bros., 817 Hamilton
 Swartz, S. P., 13 N 2d
 Swayer & Leibold, 30 N 6th
 Trexler, D. S. & Co., 347 N 8th
 Wentz, Campbell W., 352 N 7th
 Willenbecher, T. F. & Bro., 18 S 6th
ALTOONA—Akers, E. A., 1210 10th
 †Baird, Thos. N.
 Brown, J. W., 2121 6th av
 Dougherty, C. O.
 Elway & Chamberlain, 835 8th
 Fleming & Irving
 †Forney & Co., 1204 8th av
 †Foster, Martin, 725 5th av
 Glenny, W. G.
 Goodman, W. L.
 Haines, J. W.
 Harpster, E. L.
 Harris, J. W.
 Hughes, J. O.
 Litte, Charles
 McAleer, Chas. A., 1108 10th
 †McCartney, O. L., 611 7th av
 O'Neill, Hugh, E.
 Pensyl, O. J.
 Pierce, H. H.

Sharp & Talheim
 Snyder, Geo. A.
 Stewart, George W., 1110 11th av
 Stone, George R., 1009 15th
 Straney Bros.
 Trotter Bros.
AMBLER—†Kramer-Kirk Co.
 Marple, D. F.
APOLLO—Weinel, F. E.
 Wood, James P.
ARDMORE—Casey, William S.
 Drummond, Thomas
 Goldsmith, Charles F.
 Hicks, Edward
 Lyous, James & Bro.
 †Norton, H. J.
 Whelan, Wm. F. & Bro.
ASHLAND—Heinze, E. L.
 †Lauer, J. J.
 †McConnell & Bro.
 Stief, Herman
 Williams, J. Harry
ASHLEY—Searfoss, Aaron
 †Vincent, Charles W.
ASPINWALL—Aspinwall Plumbing & Heating
 †Hastings-Patton Co. Co.
ATGLEN—Campbell, H. C.
 Townsend Bros.
ATHENS—†Finch Bros.
AUSTIN—Colegrove, W. H.
AVALON—Guyton, William
 Lewis, Harvey, Jr.
 Marx Bros.
 Miller & Scott
 Winters, John W. & Co.
AVOCA—Dunni, T. J.
 Webber, Geo. V.
BANGOR—†Dutt Bros.
 Houck, W. O.
 Huhn, Wm. D.
 Teel & Co.
BEAVER—Laughlin, W. B.
 Reed, Walter C.
 Torrey, J. D.
 †Williams, J. S.
BEAVER FALLS—†Chandley Bros. & Co., 721
 McKean, L. R. & Son, 711 7th av 11th
 Osmond, N. W.
 Patterson, J. L.
 †Treiber, C. A. & Co.
 Union Electric & Plumbing Co.
 Williams & McCandless
BEDFORD—Girvin, Joseph W.
 Hawkins, Geo. C.
 Horne, Frank I.
BELLEFONTE—†Allison, A.
 Runkle, J. L.
 †Schad, Arthur E.
BELLE VERNON—Guiler, Elmer J.
BELLEVEUE—Gordon & Wehling
 McKissock, J. & Son
 Taylor, S. Guy
BENNETT—(See Millvale)
BERWICK—Brown & Shover
 Fowler, W. G.
 Kinkade, Andrew
 Walp, Geo. W.
BERWYN—Berwyn Plumbing & Heating Co.
 Groff, C. H.
 Lobb, P. W. (Est. of)
 Quimby, C. S.
BETHLEHEM—Clark, Jno. W., West B.
 †Kiernan, Peter
 †Lilly, A. O.
 Rice, F. J.
 Schall, Hubert S.
 Whitesell, F. E.
BIRDSBORO—Prutzman, J. M.
BLAIRSVILLE—Alter, J. O.
 Jackson, W. H.
 Jackson & Watson
BLOOMSBURG—†Hartman & Mendenhall
 Holmes, W. O. & Son
 Reilly, P. M.
BOYERTOWN—Campbell, Lewis R.
BRADDOCK—Braddock Plumbing & Heating
 Connelly, W. B. Co. Co.
 †Edmunds & Williams
 †Leighton, Henry S.
 Peacock, A. R.
 Rosensteel, W. R.
 Union Plumbing Co.
 Walker, C. Roy
BRADFORD—Bratton, George O.
 †Burns, A. D.
 Carr, Hattie C., Mrs.
 Daniels, C. H.
 David, O. E.
 Drake, G. H.
 Horrigan & Co.
 Ralph, A. T.
BRIDGEPORT—Fox, J. B.

BRISTOL—Abdell & Wells
 †McMullin Bros.
 †Rodau, L. T., Radcliffe c Market
 †Weik, Frank J.
BROOKVILLE—Henderson, R. L.
 McCain, C. J.
BROWNSVILLE—Collier, J. F.
 Kennedy, C. D.
 Kennedy & Claybaugh
 Kissinger, J. W.
 St. Clair, Duncan
 Sheldon, Geo. A.
 Stewart, R. J.
BRYN MAWR—Graney, James & Co.
BUTLER—Butler Plumbing & Tinning Co.
 Eberle Bros.
 Huff, Frank J.
 †O'Brien, W. H. & Son
 †Whitehill, Geo. W.
CAMBRIDGE SPRINGS—Home Hardware &
CANONSBURG—†Elliott, W. J. Plbg. Co.
 Enlow, J. L. & Co.
 Hardy & Raukin
 James, John L.
CARBONDALE—†Bell & Brown
 Cotter & McAnulty
 †Maldfield, George
 Ryan, E. T.
 †Van Bergen & Co.
 †Vannan, R. M.
 Von Beck Bros.
CARLISLE—Foote, B. E.
 Frederick & Co.
 †Wagner, Elmer E.
CARNEGIE—Cunningham Bros.
 Day, E. M.
 Donnelly, Samuel
CATASAUQUA—†Schick & Hausman
CATAWISSA—Kostenvander, M. W.
CHAMBERSBURG—†Gilbert, Daniel
 Gillan, S. Holmes
 Metz, Edw'd N.
 Stratton & Grove
CHARLEROI—Fleming, J. M.
 Regan & Hermell
CHESTER—Baker, Irving E.
 Barrowclough, Edward
 Bleyler & Marker
 Cross, Edward
 Dankelman, Jacob C.
 Diggins, George J.
 Fowden, William T.
 Morgan, J. A.
 Riley, Harry S. & Co.
 Sullivan, Tim J.
 Tighe, Samuel J.
CLARION—Allen, A. L.
 Gullard, W. H.
CLEARFIELD—†Clearfield Steam Htg. Co.
 Kettleberger Bros.
 †Powell, J. Frank
COATESVILLE—Burns, J. Walter
 McCordle, Jas. A.
 †Scott, James D.
 †Speakman, J. E.
 Young, W. W.
COLUMBIA—Couley, Albert B.
 Frank, Alex. H.
 Haug, Jacob
 Snyder, S. S.
 Strickler, Calvin R.
 Swartz, Martin D.
 Wilson, Hiram (Est. of)
CONEMAUGH—Bash, M. H.
 Kull, A. G.
CONNELLSVILLE—†Evans, F. T.
 Fitzmeir & Co.
 McCashin, Wm.
 †Munson Bros.
 Sellers, William
 Suader, S. S.
 Vanetta, A. E.
 Welker & Sons
 Zepp & Rusick
CONSHOHOCKEN—†Cleaver, Jonathan
 Fineran, Jno. J.
 Jones, Howard W.
 Jones, William H.
 Thwaite, Charles H.
CORAOPOLIS—Campbell & Roebel
 Ewing & Clark
 Jones, R. D.
 Moss, Joseph
CORRY—†Barlow Hardware Co. (Ltd.)
 †Brigham Hdq. & Plumbing Store
 †Guignon, H. A.
 McDonald, J. F.
 Miller & Stewart
COUDERSPORT—Olmstead & Stevens
CRAFTON—Beggs, J. M.
 Bradwell, T. B.
 Hopper, S. E.
 Huddelson, L. E.
 Kays & Beggs

DANVILLE—†Lechner, Joseph
Schram, Frank
DARBY—Taylor Bros.
†Wolfendon Bros.
DONORA—Bennett Bros.
Lewis, A. W.
Selbert, W. H.
DORRANCETON—Sullivan, William V.
†Wallace, George R.
Wallace, J. W. & Son
DOYLESTOWN—Dillon, Michael J.
†McGlade, Frank J.
†Rufe Bros.
DUBOIS—Butler & Daly
Cummings, T. P.
Hay Bros.
Webster, E. W.
DUNMORE—Golden & McGuire
Hughes, Thomas J.
Knight, E. W.
Sample, George W.
DUQUESNE—Beabes, M. S.
Duquesne Plumbing Co.
Kesler & Fetterman
Merritt, C. J.
Reichenbacher, George W.
Weber, Joseph & Son
EAST MAUCH CHUNK—†Bennwhoff, W. H.
Genshart, George M.
EASTON—Dager, Harry, R.
Fairer, Edw. C.
Gebhardt & Son
Hallman, Daniel I.
Kelly, W. C.
Mack, John W.
Miller, Jacob A.
O'Donnell, Hugh
Peacock, Harry B.
Pittenger, Thos. E.
†Ricker, Frank H.
Slough, J. J.
Thume, J. F.
EAST STROUDSBURG—Lessig, Joseph H.
Moyer & Hartman
EAST TOWN—Cobb, P. L.
ELWOOD CITY—McCarthy, M. D.
EMLENTON—McLaughlin, H. E.
Weller, J. A. & Sons
EMPORIUM—†Emporium Machine Co.
Murray, S. E. & Co.
EPHRATA—Christ, Oscar E.
Groff, H. M.
ERIE—†Albracht, Fred L.
Boettiger & Johnson
Boettiger & Co., 2312 Peach
Bogaski, Wm. J.
†Butler Plumbing & Heating Works, 523
Dailey, James F. French
Dunn, Frank C., 18 E 7th
†Erie Heating & Plumbing Co., 1203 Peach
Gannon & Carey
Geibel, Chas. W., 406 W 8th
Huber, J. F.
Karch Bros., 1613 Sassafras
Lyons, Jno. H. & Co., 922 Peach
†Lyons Bros., 1713 Peach
†McIntire, Geo. B., 1221 State
McKay, R. P.
†Miller, Fred J., 9 E 12th
Nick, Oscar H., 1513 Peach
†Porsch, Jno., 1222 Peach
Purcell, Jas., 514 State
Stevens & Volland
Ulrich, George W.
Wieland Heating & Plumbing Co.
†Williams, R. T. & Co., 717 Peach
ETNA—Fitch, Geo. W.
EVERETT—Gorsuch, Thos. V.
Herman, F. H. & Son
FORD CITY—Armstrong County Plumbing Co.
Kracht & Sons
Valley Plumbing Co.
FRANKLIN—Bacon & Davis
†Bunce, W. D.
†Clarke, R. S. & Son
Sheehan, D. & Sons
Sheehan, Edw'd J.
FREEDOM—James, R. R.
FREELAND—†Birkbeck, Wm.
Freeland Plumbing & Plumbers' Supply Co.
Miller, John T.
O'Boyle, M. M.
GETTYSBURG—†Armor, R. D. & Son
†Plank, Allen B. & Bro.
Wilson, C. H.
GIRARDVILLE—Halbe, Frank
GREENSBURG—Armaboust, Jacob A.
Ferguson, F. R.
Hazlett, John E.
Howell, Geo. W.
McNerny, D. J. & Co.
Streby, Chas. B.
Willson Bros.
Wolfe, Harry

GREENVILLE—Miller, G. W.
Stewart, H. S.
†Stone, Thomas & Co.
Stuart, Harry S.
GROVE CITY—Naylor, W. C. & Co.
HAMBURG—Shollenberger, E. R.
HANOVER—†Bargelt, L. I.
Foin, Jos. J.
HARRISBURG—Bayles, J. W., 1611 N 6th
Bomgardner, J. W., 29 S 2d
Bradley, P. J., 341 Rely
Bumbaugh, Wm. K., 1312 Market
Coover, J. D., 412 Spring av
Crabbe, C. F., 126 S 2d
Easterday, J., 411 Myrtle av
Elder, M. B., 224 N 2d
Fager, E. F., 1730 N 3d
†Fisher Bros., 1001 Capital
Fogarty, E. J., 912 N 3d
Froehlich, C. M., 1121 Market
Gilmer, C. G., 105 Flibert
†Harrisburg Steam Heat & Power Co.
†Horn, Alex. D., 1000 Market
Knox, J. L., 213 Crescent
†Kramer, John A. & Son, 1266 Market
Laufle, Mrs. Theresa E.
Logan, W. M., 1422 N 6th
Lutz, H. S., 211 Verbeke
Lutz & Haas, 600 Race
Lyme, I. R., 1010 Market
McKee, E. C., 1342 N 3d
†Marshall, J. S., 1306 N 6th
Marshall, W. H. S., 1805 N 3d
Mehring, L. W., 1730 N 6th
†Morrow, J. W., 1022 Market
Nauss, Christian, 34 N 2d
Neill, J. W., 308 Strawberry av
Rauch, Edw. C., 213 N 2d
Saul, M. F., 1519 N 4th
Wagner, S. P., 1626 N 6th
Wykoff, W. C., 456 Verbeke
HAZLETON—Fitcher Bros.
Held & Wendel
Mans & Alber
Walck, Richard
HOLLIDAYSBURG—Brenner, William
Frank, George J.
Jacobs, C. B. Son & Co.
Shatzer, Joseph T.
HOMESTEAD—Gibson Bros.
Goeddell, Chas.
Lawson Plumbing Co.
McLean & McDonald
Metcalf, G. H.
Wickes & Co.
Wilkinson, W. H.
HONESDALE—Markey, Charles
†Spettigue, O. M.
†Watts, Graham
HUNTINGDON—Kenyon, J. O.
†Long, William H.
Martin, G. W.
Tierney, Frank S.
HYNDMAN—Crabbe, Joseph V.
INDIANA—Cost, Joseph S.
IRWIN—Kuder, John G.
Smclair, J. H.
Waite, H. I.
JEANETTE—Altman, C. M.
Kennedy, D. J.
Meyn, W. A.
Pennsylvania Plumbing & Supply House
Westmoreland Plumbing Co.
JENKINTOWN—Brophy, Stewart J.
Mather, Charles, Jr.
JERMYN—Eagen, M. J.
Solomon & Lance
JERSEY SHORE—Crowe & Stenner
Womer, Charles
JOHNSONBURG—Larson Bros.
JOHNSTOWN—Bailey Bros.
†Bailey, E. W.
Barnhart, P. A. Plumbing & Heating Co.
Cambria Plumbing & Heating Co.
Dale Plumbing & Heating Co.
Hershey Plumbing & Heating Co.
Purse, Robert
Richards, Jno., Jr.
Ringer, F. B.
Strayer, Benjamin
Updegrave, Frank
Von Lunen, George
Wagner, W. H.
Walter & Decker
KANE—Crowell, Theo.
Kane Gaslight & Heating Co.
Kane Hardware & Stove Co.
Kane Plumbing Co.
†Smith Hardware Co.
Stoll & Palmquist
KENNETT SQUARE—Martin & Sill
†Stiner, William H.

KINGSTON—Bray Heating & Plumbing Co.
Bryant, William C.
Gallagher, Patrick L.
Westover, Joseph R.
KITTANNING—Barry, W. A.
†Dosch, A. W.
Holtshour, J. E. & Co.
Wilson, R. J.
KUTZTOWN—Brause, J. S.
LANCASTER—†Arnold, John L.
†Bachler, Leonard H.
†Buckius, Benj. R., 7 S Christlan
Central Machine Works
Coulter, I. G., 24 E Vine
†Evarts & Overdeer, 1 Howard av
Fisher & Powell
Flinn & Breneman
Hartman, J. E.
Lancaster Plumbing & Heating Co.
Long, Joseph E.
Maxwell & Rechman
Miller, David H., 350 N Queen
Penn Cornice & Roofing Co.
Schaum, John G.
Sheet Metal & Supply Co.
Simpson Bros.
Wieland, W. P.
Will, H. & C. K.
Young & Gast
LANSDALE—†Jenkins, Grant & Co.
Pharoah, H. N.
LANSDOWNE—Finigan, W. E.
Lansdowne Plumbing & Heating Co.
McLoughlin, B.
Muldoon, H.
Muncer, David J.
†Worrell, William H.
LATROBE—Blank & Cannon
Brennen, J. E.
Fries, F. W.
†Harr, L. H.
LEBANON—Reinhard, Wm. G.
†Schreiber, Geo. W.
Schreiber, John
LEECHBURG—Hardie, W. V.
†McCracken, S. M.
LEHIGHTON—Esch, George A.
Jones, James T.
LEWISBURG—Hause & Oberdauf
LEWISTOWN—Bratton, W. B.
Furman & Oles
McCafferty, D. G.
Mayes, W. S.
Miller, Joseph A.
Singer, C. J.
Soles, C. E.
LOCK HAVEN—†Bruner, O. B.
McCabe, E. J.
†Martin, S. Z.
Quinlan, Michael J.
LUZERNE—Engel, George W.
McKEESPORT—Borland & Mills
Childs Bros., 830 5th av
†Chisholm Heating & Plumbing Co., 614
Cropp, F. P. Sinclair
Helsel, C. A.
Hofman, A. M.
Irwin, O. W.
Kenny, W. S.
Kesler & Fetterman
McKeesport Plbg. & Roofing Co.
Malone, J. F.
Myers, A. N., Blackberry al c S Diamond
Neemes Bros., Walnut st
Smith & Reed
Stickrath, John A., 210 6th av
Taylor & Wolfe
Thompson, G. F.
Ziegler, Lawrence H., 341 Shaw av
McKEES ROCKS—Griffiths, E. E.
Priddy, Thomas, 19 Chartlers av
Quinn, Jos. F.
Schmid, H. D.
Scott, J. W.
MAHANOEY CITY—†Helser, H. J. & Co.
Kilne, D. B.
Leahy, Thomas F.
Miles, J. W.
†Morgan, William
Stokes, Geo. S.
MAHANOEY PLANE—Bevan, Thomas A.
MALVERN—Detwiler, Mrs. Phoebe
†Elliot, Charles S.
Garrett, Robert
Morgan, W. & T.
MANHEIM—Lenhart, John H.
Litzenberger, W.
MARIETTA—Stump & Mueller
Wiseman, A.
MAUCH CHUNK—†Bartholomew, E. D.
Schrunk, William M.
MEADVILLE—†Berg & Boyle
†Judd, M. C. Co.

Kress, August
 †Lord, L. L. Co.
 Perry, MacH.
 †Rouche, Frank
MECHANICSBURG—†Bobb, H. M.
 Cocklin, C. M.
 †Hauck Bros.
 Weber, Edw'd S.
MEDIA—Carey, George W.
 †Carey, W. H.
 McMahon, Thomas E.
 Major, George
 Suter, R. R.
 Ware, P. W.
MERCER—Barton, Gordon
 Byers, J. W. & Co.
 Rexnor Mfg. Co.
MEYERSDALE—Baer & Co.
 Bolden, C. A.
 Duguid & Co.
MIDDLETOWN—Hamaker, H.
 Hamaker, J. M.
 Hartman, E. F.
 Raymond, J. Harry
MILLVALE—Eiber, Frank M.
 Zahniser, A. P.
MILTON—Hause, Charles L.
 †Kennedy, J. F. F.
 Melxell, C. C.
 Prosser, Joseph B.
MINERS FALLS—Ayer, Thomas
MINERSVILLE—†Dunn, A. K.
 Martz, J. F.
MONACA—Dietrich, G. R.
 Sproull, E. E.
MONESSEN—Butler, J. F. & Co.
 Culler, C. W. & Co.
 Monessen Plumbing Co.
 Travers, M. P.
MONONGAHELA—Downer Bros.
 Downer, W. S.
 Kennedy, F. B.
 Marshall, F. B.
 Myers & Raible
 White & Crawford
MONTROSE—†Cooley & Son
 Ryan, Jno. J. & Co.
MOUNT CARMEL—Beddall & Wardrop
 Bergstresser, Saml. E.
 Donohue, W. V.
 Fagley, H. S.
 Phillips, Wm. H.
 Williams, Henry H.
MOUNT PLEASANT—Sherrick & McWilliams
 †Stevenson, J. A. & Co.
NANTICOKE—Cooper, Eugene F.
 Davis, Edw. J.
 Kecer, Philip
NAZARETH—Bardill, Jno. F.
 †Fulmer, Joseph
NEW BETHLEHEM—Thomas, G. L.
NEW BRIGHTON—†Donaldson, W. O.
 Reed, S. G.
 Webster, Fred'k Co.
NEW CASTLE—Bryson Bros. & Bigley
 Carbaugh, J. H. & Co.
 Carlin & Stadler Plumbing Co.
 Cotton, W. S.
 †Dunlap, H. R. & Sons
 Dunlap, H. L. & Co.
 Dunlap, W. H.
 Edwards & Garvin
 Gerhard, H. B.
 Gerhard, J. H.
 Gross, J. H.
 Holt, John
 Kay, Fred. H.
 Kline Lumber & Construction Co.
 New Castle Plumbing Co.
 Sargent Sanitary Plumbing Co.
 †Smith, Hutton & Kirk Co.
 Stadler Plumbing Co.
 †Stevenson Bros.
 Tucker, H. D. Plumbing Co.
 White Plumbing Co.
 Whitla Plumbing Co.
NEW HAVEN—Britt & Scarry
 Cyphers & Son
NEW KENSINGTON—Armitage Bros.
 Forrester Bros.
 Forrester, William
 Kensington Plumbing Co.
 Lancelots, M.
NEWPORT—Kelm, Harry T.
NORRISTOWN—†Boyer, J. Frank Plumbing &
 †Cowden & Zimmerman Heating Co.
 Forest, A. W.
 Fox, J. Bernard
 Herr, George T.
 Hutchinson, D. A.
 Johnson, W. E.
 Roop, Andrew H.
 Scanlan, Michael F.

Silver, V Hill
 Streep, D. H.
 Streep, D. P. & Son
NORTH EAST—Fuller, D. A.
 Grimes, W. D.
 North East Plumbing Co.
NORTHUMBERLAND—Boust, A. C.
OIL CITY—†Carson & Son
 Conway & Hall
 Gifford, Arthur L.
 King, John
 Lord, R. T.
 McAtee & Logan
 †McCue, F. D., 20 Spring
 †Naylor, R. D., 204 Elm
 Porter, S. G.
 †Reidy, James M., 30 Seneca
 Richards & Rickards
 Soles, G. W. & F. M.
 Stanford & Kramer
OLYPHANT—Lally, Jas. H.
 Patten, J. W.
 Sullivan, J. F. & Co.
ORWIGSBURG—†Campbell, M. E.
OXFORD—Burling, William
 Manyoun, Thomas J.
PARNASSUS—Masters, Cerus
 Wills, Charles T.
PARSONS—Trethaway, Tom
PATTON—Fleck, C. W.
 Gould, John C.
 Harper, J. C.
 Welty, C. P.
PEN ARGYL—Bieler, C. & Son
 †Correll, R. S.
PENNSBURG—Steckel, V. H.
PHILADELPHIA—Abel, Harry, 726 Master
 Adams, William, 911 Cornithlan av
 Alloway, Joseph B., 6231 Germantown av
 Anderson, George W. & Co., 1229 Girard av
 Anderson, William M., 108 S 20th
 Armbrust & McGurk, 1936 Christian
 Armstrong, Geo. S., 2637 N Hutchinson
 Arthur, John, 6021 Germantown av
 Arthur, J. E., 415 York
 Ashworth, George T., 257 S 60th
 Atkinson, George M., 4055 Market
 Augustin, Joseph, 123 S 7th
 Awner, Wolf, 1027 Poplar
 Azone, George, 166 Laurel
 †Bachler, C. F., 53 N 7th
 Bailey, Edwin H., 1128 Girard av
 Baker, Albert C.
 Baker, Howard K., 4031 Lancaster av
 Bamford & Hansbury, 3507 Longshore, Tac
 Bannister, G., 1819 Brunner
 †Barclay, Alex. M., 113 N 6th
 †Barger, John J., 2518 Columbia av
 Barnes, Charles W., 1905 S 13th
 †Barnes, Samuel W. & Son, 2106 N 6th
 Barry, Thos. J., 315 S 20th
 Barton, Wm. B., 2333 S 12th
 Batty, S. Wesley, 6052 Vine
 Baxter Bros., 240 S 5th
 Beatty, Wm. J., 6000 Gtn. av
 Beck, Chas. A., 1634 Naudain
 Beck, E. C., 263 S 15th
 Beckett, George W., 2036 Pine
 Behnke, John, 1509 S 2d
 Bellwoar, Joseph A., 16 S 17th
 Benezet, Jno. H. & Bro., 1409 S 49th
 Berry, William G., 2017 N Van Pelt
 Bevan, Elwood & Co., 113 N 12th
 Bieler, John V., 2040 E Susquanna av
 Bieling, Christian, 3218 Fkd av
 Blng, Norris H., 1216 Montgomery av
 Bleam, Harvey C., 2800 N Lawrence
 Blinckhorn, John R., 2232 Locust
 Boal, Wm., 8133 Fkd av
 †Bode, Adolph & Son, 1526 Gtn. av
 Bodenstine, Wm. L., 2934 Ridge av
 Bond, Alex G. & Bro., 1321 Ridge av
 Boon, Frank B., 204 N 63d
 †Boon & Sample, 137 S 10th
 Boorse, Abram L.
 Borie, Joseph S. (Est. of), 1009 Spruce
 Boulais, Eugene, 6301 Girard av
 Bower, Fred'k C., 1829 E Madison
 Bowman, Chas. P., 1926 N 20th
 Boyle, Thos. F., 2619 Fkd. av
 Bradley, James, 1733 Reed
 Bradley, Jas., 718 Spg Garden
 Brady, Charles P., 821 N 10th
 Braker, Geo., 220 N 15th
 Breyer, Geo., 1204 N Hancock
 Britton & Witham, 151 E Chelton av, Gtn.
 Broehan, George, 1109 S 47th
 Bromiley, Edw., 1531 Sellers, Fkd.
 Brown, Frank, 1302 Jefferson
 Brown, George, 104 S 40th
 Brown, Henry M., 2111 Susquehanna av
 Brown, Jos. C., 5402 Macher
 Brown, William E., 1022 Moyam'g av

Brown, Wm. H., 1824 South
 Bryan, J. G., 107 N 7th
 Buckalew, Geo. A., 4530 Baltimore av
 Bugger, Jacob, 2124 D Cumberland
 Bulman Bros., 2532 N 5th
 Burligame, Geo. R., 3524 Haverford
 †Burns, David R., 752 N 19th
 Burton, Geo. W., 949 N 12th
 Busch, Michael, 455 N 2d
 Buzby & Hellerman, 5324 2d st pk, Olney
 Byrne, Jno. J., 37 N 10th
 †Byrnes, Howard L., 3047 Fkd av
 Caldwell, Geo., 1923 E Dauphin
 Calhoun Plumbing Co., 703 Walnut
 Callahan, James E., 1204 Belmont av
 †Cameron, W. T. & Co., 622 N 13th
 Capper, Daniel J., 220 N 56th
 Carpenter, Chas. T., Krams av, nr Ridge
 Carrigan, Michael, 2524 Huntingdon
 Carson, Andrew, 283 S 5th
 Casey, Thos. J., 1200 Snyder av
 Cassidy, Wm., 48 N 10th
 Catsiff, Ephraim, 959 N 2d
 Chadwick, Jas. & Son, 4245 Fkd av, Fkd
 Chestnut, John W., 108 Susquehanna av
 Clark Bros., 218 S 12th
 Clark, Geo. H., 4207 Haverford
 Clark, Henry, 911 S 6th
 Clark, John, 8034 Fkd. av
 Clark, Lawrence, 917 S 11th
 Clark, Samuel, 4345 Frankford av
 Clark, Samuel S., Fairmont market
 Clark, Thomas, Jr., 513 N Orianna
 Clark, Thomas D., 267 S 11th
 Clayton, Hy. T., 885 N 28th
 Cleary, Jno. P., 2614 Ktn. av
 Clegg, Allen W. S., 5439 N 2d
 Clegg, Harry B., 1613 Frankford av
 Clifton, Arthur J., 4252 Fkd av
 Coffin & Son, 524 Walnut
 Cohen, Albert, 604 S 9th
 Cohen, Joseph F., 618 S 8th
 Coles, A. Quintin, 3746 Lancaster av
 Collar, A. J., Jr., 1944 N Front
 Collier, Charles A. & Son
 Collins, Jno. F., 445 Dauphin
 Conrad, Chas. H., 51 Emily
 Conwell, Hubert J., 1426 Jackson
 Cook Bros., Howell & Dltman, Wissinno
 Cooke, Geo. A., 2122 N 6th
 †Cooke, William P., 3432 Germantown av
 Cooley, Wm. C., 1340 Somerset
 Copperman, Max, 836 S 3d
 Cornelius, Harry, 5529 N 5th
 Coulston, W. D., 2871 N Darlen
 Craig, Lemuel J., 5212 Pulaski av, Gtn.
 Craven, W. J. & Son, 4425 Main, Myk.
 Crossley, James, 2120 Ridge av
 Crouse, Frank X., 891 N Preston
 Crowell, H. H., 1335 N 12th
 †Crowther, Samuel, 1608 Sansom
 †Cuff, J. W. & Co., 2027 N 23d
 Cullen, A., 710 S 19th
 Cullen, Jos., 4168 Ridge av
 Cummings, Thomas, 1923 Cayuga
 Cunningham, James J., Jr., 102 S 2d
 Cunningham, Thos. J., 1614 Orthodox, Fkd.
 Curlett, James H., 5115 Ridge av
 Currie, J. M., 5 S 26th
 Dahn & Cooper, 3728 Germantown av
 Dale, Thomas B., 31 Mannheim, Gtn.
 Daly, J. A., 5020 Lancaster av
 Daly, John J., 3061 Germantown av
 Danzelsen, John, 639 Venango
 Davenport, Reuben C., 3963 Germantown av
 Davenport, William H., 106 Conarce, Myk.
 David, Edw. W., 5418 Haverford
 David, H. L., 1341 Westmoreland
 Davidson, Thos., Jr., 171 Dauphin
 Davies, Ellas T., 1325 N 16th
 Deitz & Bro., 217 S 8th
 Dempsey, Thomas F., 7223 Woodland av
 Denby, Charles, r 321 Arch
 Devine, James J., 2520 Dickinson
 Dietz, Louis G., 2538 N Hancock
 Donohue, Jos. S., 2343 N 22d
 Donegan, M. J., 4452 Gtn. av
 Doran, William, 3429 Fkd. av
 Dougherty, Chas. J., 2341 N 15th
 Dougherty, Edw. W., 1421 E Columbia av
 Dougherty, Francis P., 1944 E Passy'k av
 Dougherty & Dean, 815 S 4th
 Dowling, Frank J., 5650 Boyer, Gtn.
 Dowling, William F., 307 N 63d
 Doyle, Patrick E., 1512 S 5th
 Doyle, Wm., 1610 Spruce
 Doyle, Wm. J., 134 N 13th
 Drake, C. E., 1520 Columbia av
 Drew & Co., 1216 N 19th
 Drummond, Gregor, 2642 Gtn av
 Drummond, Robt., 2025 Gtn. av

Duffey, Joseph P., 2446 Huntingdon
 Duffy, Geo. W., 3932 Poplar
 Dukes, Richmond M., 828 S 2d
 Duncan, Morton E., 4826 Baltimore av
 Duncan, Walter E., 4902 Woodland av
 Dunlap & Aldred, 6229 Woodland av
 †Duprey, Aug. F., 1409 Race
 Durkin, Dominick, Jr., 1613 Pine
 Dwyer, John F., 1239 Ridge
 Eames, Ezekiel B. M., 1506 Porter
 Eastwick, Wm. W., 140 Chestnut
 Elnholz, Otto, 913 Master
 Elismaun, Adolph C., 2303 N 7th
 England, Geo. W., 237 S 5th
 England, Robert M., 5452 Market
 English, Thos. & Son, 1817 Fairmount av
 Enterprise Plumbing Works, 210 Dauphin
 Erdmann, F. B. & Co., 1608 Fairmount av
 Esher, Chas. F., 2151 N 31st
 Eustace, Frank J., 893 Belmont av
 Everett & Dugan, 716 Walnut
 Evanson, Jno. E. & Sons, 207 S 10th
 Farley, William S.
 Faunce, Wm. H., 907 Filbert
 Fell, Sam'l H., 601 Moore
 Ferguson, James S., 233 S 22d
 Flue, Samuel, 946 S 6th
 Finegan, James, 7977 2d st pk
 Finn, James J., 322 W Cheltenham av, Gtn.
 Fisher, Benjamin, 159 N 2d
 Fitzgerald, Jas. P., 120 S 6th
 Fitzpatrick, Sommers C., 1029 Christian
 Florence, Andrew, 2206 Columbia av
 Flynn, James A., 121 S 13th
 Fogarty, James T., 802 Norris
 Fogg, Albert, 126 N 12th
 Forbes, Clement A., 203 Walnut
 Ford, Jno. F., 403 Spruce
 Foster, Albert E. & Co., 4523 Lancaster av
 Foster, Harry, 204 Washington av
 Foster, Joseph C., 724 N 42d
 Foster, Thos. J., 3300 N Howard
 Fox & Long, 3041 Ridge av
 Francis, Thos. F., 144 N 6th
 Fray, Frank, Jr., 726 Poplar
 Frey, Milton W., 7703 Ridge av
 Fricka, Chas. D., 1328 N 17th
 Friedman, Jos., 944 S 5th
 Fritz, Joseph H., 421 Girard av
 Frost, William A., 103 N Front
 Fry, Masou K., 728 Spring Garden
 Fulton, Theo., 3310 Howell, Wissng
 Fuss, Gottlieb W., 5109 Tacony, Fkd
 Gailey, Daniel, 1921 Ontario
 Gallagher, Chas. F., 4270 Main, Myk.
 Gallagher, Edw. J., 17 c Mifflin
 Gamble, G. W., 3012 E Thompson
 Garcla, John D., 5209 Market
 Garey, William E., 1849 N 7th
 Garner, Joseph D., 2760 Kensington av
 Gibson, William, 1727 Venango
 Gillespie, A. Lincoln, 622 S Broad
 Goepfinger, George, 2064 E Susquehanna av
 Golden, Martin J., 220 Mannheim, Gtn.
 Goll, Balthaser, 524 N 3d
 Goodin, Samuel, 2606 Amber
 †Goldner, H., 156 Lehigh av
 Gormley, P., 155 N 10th
 Gosman, William, 2058 N Camac
 Gotwols, Geo., 3107 Frankford av
 Graham, Daniel, 1822 Norris
 Gray, Chas. A., 1712 Fkd. av
 Gray & Dormer, 1729 Columbia av
 Greenfield, Levi S., 2369 E Letterly
 Gress, Frank, 1448 Kerbaugh
 Griffith, G. G., 1904 S 6th
 Griffith, N. B., 956 N 11th
 Griffith, Wm. D., 42 N 53d
 Grimes, John A., 2700 Cambridge
 Grimm, Harry A., 725 Race
 Grosart, Alex, 1815 Wharton
 Grover, Harry B., 719 Mifflin
 Gunzer, Frederick, 1353 Passyunk av
 Gunzer, J. C., 43 E Chestnut Hill av, C.Hill
 Haas, Jno. L., 920 Girard av
 Haggood, Geo., 4665 Frankford av
 Haggerty, Paul V., 3093 Ktn. av
 Haines, F. Darker, 5104 Funston
 Hak, Albert, 850 N 10th
 Halcy, Jas. M., 1749 N 10th
 Hallinan, Jas. F., 5218 Vine
 Hamilton, Milton L., 240 N 13th
 Hammer, Albert E., 1342 N 4th
 Haney, J. J., 815 Indlana
 Harkness & Bro., 229 S 2d
 Harkness, Thomas, 873 N 44th
 †Harley, John, 2664 Coral
 Harnett, Jas. J., 2340 N 29th
 Harper, Robert, 215 N 16th
 Harris, Jno., 766 S 19th
 Harshaw, James A., 2118 Fitzwater
 †Hartman Heating Co., 12th c Oxford

Haslam & Grey, 1041 Spring Garden
 Hayes, Angelo, 2442 S Broad
 Hearn, Jno., 302 N 17th
 Helms, Chas. S., 1934 Callowhill
 Heins, Frank B., 2113 South
 Henderson, Robt. E., 1131 S Broad
 Hennessey, Jas., 1321 E Berks
 Henry, Edw. M., Jr., 709 Mifflin
 Henry, Frank W., 820 Girard av
 Henry, Thomas A., 1934 E Lehigh av
 Henry, William, 1209 Atlantic
 Herling, Philip, 426 Belgrade
 Herse, Stephen, 224 N 4th
 Hess, Frank P., 2004 Vine
 Hess, John M., 2551 N Reese
 Hicks & Bro., 651 N 8th
 Higgins, H. C. & H. Y., 1405 Race
 Highley, H. J., 1119 Jefferson
 Hill, Hy., 3330 Market
 Hillanbrand & Hoblin, 2453 N 29th
 Hird, William, 1024 Carpenter
 Hirsch, Sigmund, 1445 N Lawrence
 Hirst Bros., 3435 Longshore, Tac.
 Hirst, Isaac T., 340 N 4th
 Hoben & Doyle, 2056 Pine
 Hoeffelman, Fred'k C., 1929 Dauphin
 Hoffer, J. Edward, 27 S 16th
 Hoffner, Louis B., 3212 Germantown av
 Hoft & Sneller, 800 Passyunk av
 Holdson, Harry W., 161 Cumberland
 †Holmes Bros., 2102 N 8th
 Hong, Frank P., 4654 Edmund, Fkd.
 Hooven & Doyle, 1406 N 20th
 Hoover, Andrew J., 1947 E Somerset
 Horn, B. F., 28 N 5th
 Horwitz, Frank, 1137 S 8th
 Houghton, W. B., 2153 E York
 Howell, F. S., 1613 Columbia av
 Hughes, Hy., 7030 Woodland av
 Hurlburt, H. L., 5431 Hunter's la
 Hutchinson, Isaac, 2849 N Howard
 Hutchinson, Samuel, 2021 Wlnter
 Hutchinson, S. G., 340 S 17th
 †Innes, C. T. & Co., 870 N Franklin
 Iseminger, Adam C., 624 Federal
 Isen, Martin, 526 Girard av
 Jackel, Henry, 2200 E York
 Jackson, Edw'd T., 2853 N Marvline
 Jackson, Geo. A., 1039 N 4th
 Jacobs, Robt. H., 1800 Montg'y av
 Jacobs, Simon, 203 Vine
 Jacobson, B., 1023 S 6th
 Jahn, Charles, 5312 Gtn av
 Jenkins, Grant & Co., 1219 Arch
 Jerman, James M., 31 E Price, Gtn.
 Joerger, Xavier & Son, 610 N 3d
 Johnson, Hy., 610 S 7th
 Johnson, Walter S., 139 Dawson, Wiss.
 Jones, Albert T., 1524 N 54th
 Jones, Chas. A., 1634 Susquehanna av
 Jones, Millard F., 1510 N 24th
 Jones, Walter, 1732 Columbia av
 Jordan, Chas. A., 2854 N Fairhill
 Joy, Frank, 2700 Gtn. av
 Kahler, O. A., 3103 N 15th
 Kane, Chas., 2306 N 5th
 Kane, Jno. W., 2048 E Dauphin
 Kane, Wm., 1013 S 12th
 Katzmman, Adolph, 318 Susquehanna av
 Katzmanu, Wm., 310 Norris
 Keenan, Jno., 4432 Lancaster av
 Keichline, Jacob, 1208 N 24th
 †Kellner, Chas. F., 712 Callowhill
 Keimer, William, 2820 N 5th
 Kelly, Geo., 2230 Pine
 Kelly, John J., 3021 York
 Kelly, M. M., 4017 Lancaster av
 Kennedy, Dennis, V., 837 E Cheltenham av, Gtn
 Kennedy, Hugh, 1617 Tasker
 Kennedy, William A., 207 Dock
 Kensil, Wm. A., Jr., 1818 S 2d
 Kerrigan, Jno., 7110 Germantown av
 Ketterer, George & Bro., 219 Race
 Kettlewell & Robinson, 28 S 40th
 Kinlry, Robert J., 916 S 15th
 Kinney, Jas. H., 4225 Main, Myk.
 Kinsley, Joseph T., 532 Walnut
 Kirby, Allen H., 3508 Ktn. av
 Klrk, R. J., 256 Diamond
 †Klrk, Wm. S., 1539 Catharine
 †Kirkman, D. & Son., 15 N 40th
 †Kite, A. Clarence, 3937 Lancaster av
 †Kite, J. Sellers & Co., 523 N 40th
 Kite, P. J., 2906 Diamond
 Kite's, John H. Sons, 2913 Ridge av
 †Kleiber, Louis, 1025 N 2d
 †Kline & Co., 1420 Callowhill
 Knockle, Geo. B., 1452 E Wilt
 Koenig, Joseph F., 3052 Chatham
 Kohn, Jos. C., 618 S 8th
 Korh, J. K., 2334 Jefferson
 Korb, Jno. M., 1927 Gtn. av

Kramer, Frank, 959 N 11th
 Krouse, Godfrey & Co., 23 S Orlanna
 Krouse's, Wm. Sons, 149 Green
 Lamond, W. E., 603 S 22d
 †Lang, John A., 248 Queen, Gtn
 Lange, Arthur B., 2801 N Front
 Lawlor, Jas. J., 5129 Lancaster av
 Leary, Wm. E., 636 Cumberland
 Lehman, Morris A., 442 Lombard
 Lelnau, Robert, 111 S 7th
 Leltch, William, 3309 Chestnut
 Lenahan, Jeremiah F., 2517 Gtn av
 Lentz, Harry B., 449 Poplar
 Leonard, John J., 242 S 11th
 Levin, Louis, 518 S 8th
 Levy, Harry, 1148 Passyunk av
 Lewis, Joseph S., 2264 N Howard
 Lilly, Edward C., 2044 Coral
 Lock, Otto, 616 Callowhill
 Lodge, Harry F., 349 S 13th
 Lomax, Frederick, 610 York
 Long, Graham W., 1402 Federal
 Loughery, Robert G., 46 N 11th
 Loughney, J. A., 4043 Lancaster av
 Lowden, H. C. & Sons, 24 S 40th
 Lowener, J. Gilbert, 2312 Columbia av
 Lowrey, D. J., 1443 Wharton
 Lowrie, Jas., 4235 Ridge av
 Lukens, C. W., 1901 Montgomery av
 Lutz, Henry & Co., 210 N 16th
 Lynch, James P., 2411 Gtn. av
 McCaffrey, James, 2858 N Hancock
 McCall, Samuel B., 1237 S 2d
 McCalmont, Thos. J., 1505 Susq. av
 McCandless, W. J., 530 Walnut
 McCann, John, 210 Dauphin
 †McCarthy, Charles J., 4560 Wayne av, Gtn.
 McCarthy, M. J., 246 S 40th
 McCarthy, Timothy, 4211 Woodland av
 †McClain, Wm. H., 5920 Girard av
 McCleary, Robert A., 872 N 10th
 McClellan, Alfred, 810 N Stillman
 McCloskey, C. Y., 2061 E Susqu'anna av
 McCloskey, Jas., 4118 Lancaster av
 McCoach, William, 1607 Sansom
 McCoach, Wm., Jr., 1631 Wallace
 McCoy, Charles E. Co. (Ltd.), 18 N 19th
 McCullough, Wm. L. & Son, 1665 Wilton
 McDewitt, J. J., 4329 Germantown av
 McElwee, Hugh, 2029 E Huntingdon
 McElwee, James, 747 S 20th
 McEntee, James A., 2524 York
 McFadden, C. & Co., 3530 N 15th
 McFall, John T. & Son, 1260 Pt. Breeze av
 McFarland, Samuel H., 2226 Vine
 McFarland, Thomas, 1619 Oxford, Fkd.
 McGarry, F. J. & Bro., 4326 Lancaster av
 McGlone, Henry, 884 Perkiomen
 McGonigle, Ldw'd, 926 Sansom
 McGuckin, Henry, 1634 S 19th
 McGuckin, Joseph A., 1719 Federal
 McGuckin, J. & Bro., 1023 Christian
 McIntyre, George F., 1519 Frankford av
 McKenney, Joseph, 331 Poplar
 McKernan, M. J., 1149 Winton
 McKernan, Thos. A., 1440 Snyder av
 McLaren, Jas., 3455 Sunnyside Falls
 McLaughlin, Geo., 1324 Columbia av
 McLeish, John, 3d c Indiana av
 McMahon, Hugh, 1337 N Hollywood
 McMahon, Jas., 733 Spring Garden
 McMahon, Wm. H. F., 1309 Dover
 McMichael, Hugh L., 2605 Wharton
 McMillan, Frank, 5432 Tacony, Fkd.
 †McNally, Robert J., & Bro., 5618 Gtn. av
 McNamara, John H., 1124 S 47th
 McNella, John, 2247 S Hicks
 McNelly, Wm. H. L., 2555 N 11th
 McTague, John J., 703 S 11th
 MacDermot, Jos. R., 2157 Ridge av
 MacDermott, Thos. J., 1711 N 24th
 MacFarland, J. B., 501 S 10th
 Mackay & Reilly, 2400 Montgomery av
 Mackinney, John, 1718 S 22d
 MacMullan, Edw., 1101 Spring Garden
 Magee, James C., 1912 South
 Magee, John J., 1149 N Front
 Mager, Geo. W., 1123 E Palmer
 Major, Robert, 4309 Locust
 Makin, Thomas L., 2220 Bridge, Fkd
 Mallo, John, 438 Master
 Maloy, Peter F., 6086 Reinhard
 Mango, Nicola, 1339 S 8th
 Manning, Herbert, 825 Spring Garden
 Marcer, George G., 2363 N 18th
 Mardln, George B., 5030 Lancaster av
 Marlon, Fred'k W., 404 N 21st
 Martin, Richard L., 1118 Susquehanna av
 Matthews, Edw. T., 2100 N Franklin
 †Matlack, Thomas, 1812 Fkd. av
 Mayberry, Samuel U., 1110 S 23d
 Mears & Dwyer, 39 N 7th

Meiklejohn, Robert, 1529 Rldge av
 Mellon, Harry C., 2121 Locust
 Mellon, Thomas A., 3916 Lancaster av
 Menges, Paul, 233 S 3d
 Menige, Charles S., 1522 E Passyunk av
 Meutzinger, W. W. & Son, 830 Walnut
 Mervine Bros., 132 S 7th
 Michelbach, Frank, 411 Poplar
 Mick, Harry J., 721 N 13th
 Mill, Jacob H., 1826 S 5th
 †Milligan, William, 726 Sansom
 Mills, Vance, 4619 Cedar av
 Mitchell, John, 2224 Vine
 Mitchell, John J., 1609 N 2d
 Mitchell, Theo. B., 333 N Franklin
 Moe, George T. & Co., 65 N 2d
 Moeller, Geo., 1440 Parrish
 Molineaux, W. S., Jr., 1808 S 5th
 Molouey, James P., 2125 Christian
 Moloney, John, Jr., 911 S 20th
 Moore, Henry C., 1332 Oxford
 Moore, John F., 2518 Gtn. av
 Moore, L. W., 610 Girard av
 †Moore, Thos. G., 427 S Broad
 Moran, Chas., 1718 Morris
 Morford, Lewis, 1228 N 12th
 Morris, Jas., 3615 N 6th
 Morrison, Jas. B., 918 Grays Ferry av
 Morrison, Frank W., 333 N 12th
 Mulhern Bros., 3806 Haverford
 Mulhern, Jno. J., 3617 Haverford
 Mullen & Nolan, 728 Oxford
 Muller, G., 433 Indiana
 Mullu, Daniel D., 1002 Ridge av
 Murfit, George A., 1093 Germantown av
 Murray, J. J. & Co., 2103 Mt. Vernon
 Nagle, Wm., 1133 Poplar
 Nash, Walter H., 616 S 17th
 Neff, Albert S., 843 N 25th
 Nellson, Howard, 7206 Germantown av
 Nepps, Charles F., 2223 Berks
 Newell, Wm. & Bro., 1713 Sansom
 Newsome, Jno. R., 2557 N Front
 Nlehaus, Henry H., 400 Cumberland
 Nield, John W., 2637 Bridge Bldesburg
 Noon, George J., 618 Wharton
 Norris, Henry, 2428 Ktn. av
 Oakes, Wm., 1120 Pine
 O'Brien, Jno. C., 912 Ridge av
 O'Brien, Joseph S., 934 Pine
 O'Brien, Michael J., 4026 Ridge av
 O'Brien, William, 1340 Bainbridge
 O'Connor, George S., 4464 Richmond
 O'Connor, Jas. J., 2907 Frankford av
 Odgers Bros., 1320 Poplar
 O'Donnell, C. H., 3807 Lancaster av
 Oglesby, Wm., 1336 Carpenter
 O'Neill, Emmett, 4223 Fkd. av
 †O'Neill, F. H., 154 N 7th
 O'Neill, Jno., 104 E Girard av
 O'Neill, John J., 2832 E Thompson
 Ormrod, Richard, 787 N 25th
 Orolowitz, George, 326 South
 Packer, E. V., 5146 Market
 Pagels, William C., 1771 N Dover
 Pangborn, Ellwood C., 1632 Dauphin
 Pangborne, Jas. H., 2015 N 18th
 Park, Wm., Jr., 1211 Cherry
 Parlette, George W., 6313 Woodland av
 Paul, Jas. L., 740 N 23d
 Paulin, E. Frank, 2014 Columbia av
 Peale, Aug. L. & Son, 2001 N 12th
 †Pennock, J. Sellers (Est. of), 33 N 7th
 Peters, W. Adolph, 1436 N 10th
 Philadelphia Plumbing & Heating Co., 221 N 11th
 Pierce, Lewis M., 1915 York
 Powell Bros., 1811 Columbia av
 Power & Magee, 5645 Chew, Gtn.
 Presser, Henry, 328 Noble
 Price, Harry M., 408 S 19th
 Priest, James S., 4450 Mitchell, Myk.
 Pyne, Frank, 426 Cross
 Quindlen, Eugene A., 1412 S 20th
 Qulnn, Jno. A., 1613 Unity, Fkd
 Radiss, Jacob, 742 S 6th
 Rafferty, John E., 3303 Gtn. av
 Ramspacher, Claude W., 1508 Moyam'g av
 Raphael, Israel, 610 Race
 Ray, Samuel D., 635 N 53d
 Raynor, Raymer, 1537 S 11th
 †Reagan, Joseph V., 1639 Venango
 Reeves, Geo. W., 3100 N Chadwick
 Regler, Max M., 1313 Passyunk av
 Relly, P. A., 2507 Ridge av
 Rentschler, Wm. F. & Bro., 2631 Girard av
 Rhodes Bros., 5040 Gtn. av
 †Rickards, J. P. & Co., 2707 N Broad
 Rieben, Christian, 2242 N 27th
 Righter, Harry L., 5424 Gtn. av
 Riley, Chas. A. & Co., 1403 Cumberland
 Roberts, Edw. F., 2622 Columbia
 †Robinson, W. J., 6202 Germantown av

Robinson, Wm. J., Jr., 6102 Ridge av
 Roche, Wm. J., 1026 Oxford
 Rockett, Geo. N., 1724 Susq'ana av
 Rockett, Thos. T., 629 N 19th
 Rogers, Jno. W., 424 Edgewood
 Rooney, Daniel A., 1622 N 2d
 Roney, Jno. J., 2537 N Bouvier
 †Ross, David, 2232 Montgomery av
 Ross, Walter R., 3601 Lancaster av
 Rudolph, Abraham L., 5223 Rldge av
 Rule, Robert, 5026 Baltimore av
 Russell, Thomas A., 1223 S 20th
 Russell, William F., 3621 Woodland av
 Russell, William H., 3916 Terrace, Wiss.
 Rutherford, H. (Est. of), 1703 Pine
 Ryan, A. J., 1309 Columbia av
 Ryan, William, 1626 S 18th
 Sage, Edw. J., 3828 Market
 Savidge, Alosius P., 1447 Westmoreland
 Sawyer, Wm. H., 1917 Ridge av
 Scattergood, H. C., 1016 Pine
 Schapel, Geo., 2238 E Clearfield
 Schleuz, Jos., 2901 Lehigh av
 Schmidt, Charles, 1738 Germantown av
 Schneider, Louis M., 401 N 4th
 Scholl, Joseph, 2712 Girard av
 Schreiner, Jno. G., 1434 Fkd. av
 Schulz, Robert H., 2549 N 2d
 Schwinn, Geo., 1416 Dauphin
 Scott, Charles, 2513 N 27th
 †Scott, Robert Engineering & Construction Co., 1716 Ludlow
 Seiberlich, Joseph M., 520 Diamond
 Seibert & Rossler, 3824 Gtn. av
 Shafer, Geo. W., 5121 Lancaster av
 Shand, R. H. & Sons, 1421 Susquehanna
 Shank, Chas. R., 849 N 45th
 Sharp, Abraham, 216 Brown
 Shaw, Chas. F., 1029 Montgomery av
 Shaw, Chas. H., 5228 Wakefield, Gtn.
 Shaw, Harry C., 3509 Market
 Shaw, John J., 4117 Market
 Shaw, Thos. T., 5823 Gtn. av
 Shea, Jas. H., 2413 Wharton
 Sheets & Hebden, 39 N 17th
 Sheldrake, Chas. M., 1504 Ridge av
 Sherlock, T. Howard, 2212 S Rosewood
 Sherrard, Jas. B., 1139 N 40th
 Sherry, Frank, 1832 McClellan
 Shotts, Christian G., Jr., 1622 E Passy'k av
 †Shreve, Isaac S., 6913 Tulip, Tac.
 Simmons, James A. & Bro., 5619 Market
 Sines, H. B., 1955 Rowan, N'town
 Sipe, Edwin M., 2704 E Allegheny av
 Sites, Jno. J., Jr., 2918 Fletcher
 Sketchley, Harry P., 1014 Brown
 Smalley & Hurst, 107 E Cheltenham av, Gtn.
 Smeeton, T. P., 207 Richmond
 Smevolovitz, Henry, 709 S 4th
 Smilowitz, Henry, 709 S 4th
 †Smith, A. W., 290 W Rittenhouse, Gtn.
 Smith, Chas. E., 220 Church la, Gtn.
 Smith, George, 2543 Kensington av
 Smith, G. S. G., 2019 Master
 Smith, G. Wallace, 46 N 16th
 Smith, Howard & Co., 5516 Gtn. av
 Smilh, James C., 777 S 7th
 †Smith, Jno. M., 1839 Kater
 Smilh, Nathan E., 455 Richmond
 Smith, Redmond, 1216 Snyder av
 Smith, Samuel R., 201 N 13th
 Smith, W. S. & Co., 1830 Susquehanna av
 Smith, Wm. J., 1537 Bainbridge
 Smithers, Hy. L., 2300 E Cumberland
 Smyth, Isaac, 2813 Dauphin
 Sommer, Louis J. & Son, 2436 Brown
 Spangler, A. V., 705 Oxford
 Specht, Louis, 1643 N 13th
 Speth, Fred'k., 3531 N 5th
 Staake, Walter, 1620 N 20th
 Stafford, Jas., 5629 Race
 Stanton, Geo. D., 2912 Gtn. av
 States, Harry T., 3105 Spring Garden
 Stearrett, J. Walter, 2522 Aspen
 Steel, Robt., 6650 Gtn. av
 Steele, Alex., 615 S 18th
 Steln, Michael, 729 S 3d
 Stevens, David L., 4932 Gtn. av
 Stevenson, Thomas, 920 S 18th
 Stewart, Jos., 800 S 18th
 Still, Jacob, 141 Richmond
 Stimmler, Jos. A., 4105 Main, Myk.
 Stockley, Wm. E., 4529 Springfield av
 Stone, Wm., 213 Poplar
 Storch & Scheid, 1949 E Passyunk av
 Struse, Edw. C., 119 Green la, Myk.
 Struse, C. O. & Sons, Walnut la, Myk.
 Sullivan, R. H., 935 Melon
 Supper, John R., 2101 Sharswood
 Sutter, Samuel, 727 Spring Garden
 Swain Mfg. Co., 7th c Morris
 Swartz, Jos., 2304 E Norris

Talt, Thomas, 7010 Woodland av
 Tatem, George H., 1830 S 4th
 Tateu, Howell, 147 S 4th
 Taxls, Arthur J., 3653 Woodland av
 Taylor Bros., 7015 Greenway av
 Taylor, H. J. & Bro., 513 S 12th
 Taylor, Paul M., 338 S 5th
 Temple, Jos. W., 1012 Columbia av
 Thompson, Geo. M., 3414 Market
 Thorn, I. Barclay, 2446 Rldge av
 Thornley, Wm. D., 832 N Capitol
 Timuey, Charles H., 2636 Richmond
 Tolley, Chas. B., 1220 Montgomery av
 Tomlinson, Wm. H., 7207 Gtn. av
 Toohey, Wm. F., 2328 Brown
 Topham, Wm. N., 6033 Gtn. av
 Toy, Edward J., 3423 N 16th
 Toy, Frank D., 922 Filbert
 Trullitt, Thos. H., 1229 N 19th
 Turnbull, Wm., 2519 N 7th
 †Uher, George F. & Co., 701 N 13th
 Uher, Norman W., 4634 Woodland av
 Usher, Edwin J., 3330 N Front
 Van Loan, Marshall N., 3008 N 11th
 Walher, Charles, 3256 Sansom
 Waldman, William, 6528 Germantown av
 Walker, Robert J., 2149 E York
 Wall, Jno., 4037 Irving
 Wallace, Geo. N., 336 N 23d
 Walsh, Jas., Jr., 444 N 5th
 Walters, Jacob S., 1919 Susquehanna av
 Walton, Harry H., 2903 Kensington av
 Wanner, Andrew, 2352 N 8th
 Wanner, Louis, 106 N 6th
 Wanner, Louis, Jr., 33 S 17th
 Warfield, Chas. S., 333 S 20th
 Warner, William, 1520 S 15th
 Watson, Richard H., 1707 Chestnut
 Weaver, A. S., 2018 N 25th
 Weaver, Edw'd R., 1400 Fairmount av
 Webster, Jas., 3608 Lancaster av
 Weekerly, Henry C., Jr., 3016 Cumberland
 Weer, Geo. B., 112 Indian Queen la, Falls
 Weldemann Bros., 3013 Ktn. av
 Weidner, W. Jacob, 621 W Dauphin
 Weinreich, E. E., 5006 Susquehanna av
 Weir, Robert G., 237 Girard av
 Weiss & Mortimer, 7968 2d st pk, Fox Chase
 Welischek, Jno., 700 Green
 Welsh, Wm. A., 3540 Gtn. av
 Welsh & Ambrose, 4609 Umbria, Myk.
 Wenkenbach, Frederick, 2608 Girard av
 Wheelin, M. H. & Son, 1336 Girard av
 Whelan, P. J. & Co., 248 Tloga
 Wheeler, Wm. C., 11 S 18th
 White, Wm., 2216 Ridge av
 White, William J., 403 Walnut
 Whitehead, Geo. H., 205 Arch
 Whitlam, Frank W., 5000 Willows av
 Wiegand, C. H., 413 Susquehanna av
 Wilcke, Harry W., 49 N 10th
 Wilkinsou, Chas., 264 S 17th
 Williams, Charles J., 3200 Arizona
 Williams, Robert, 5817 Arch
 Wills, Geo. B. & Co., 1309 Master
 Wilson, John B. & Co., 4209 Frankford av
 Wilson, Kenneth, 2853 N 5th
 Wilson, Samuel J., 1412 Moore
 Wilson, S. M., 3 N 41st
 Wilt, Joseph A., 2224 E York
 Winslow, John, 2121 Lombard
 Winterholer, Albert, 2812 N 3d
 Winters, Thos., 2119 Dickinson

When writing to firms
 whose names appear
 in this book please
 mention

HENDRICKS'
COMMERCIAL
REGISTER.

Woehlccke, Adolph H., 1704 Poplar
 Wohlschlagel, J. F., 2099 N 63d
 Wolfenden, John L., 4552 Baker, Myk.
 Woodward, Samuel P., 1615 Federal
 Wright & Co., 3206 York
 Wynkoop, Thomas, 707 Girard av
 Yearsley, Lewis N., 717 Spring Garden
 Yost, John F., 2714 Richmond
 Young, A. E., 1648 Orthodox
 Young, Albert E., 1648 Orthodox, Fkd.
 Young, David W., 1742 Callowhill
 Young, Jno., 1402 Jefferson
 Young, Wm. J., 28 N 16th
 Zeisse & Jones, 113 N 5th
 Zimmerman, Jacob, 1524 Sansom
PHILLIPSBURG—Bortel, George E.
 Flegal, H. F.
 Fravel, W. H.
 Hirst, John
 Selbert, F. B.
PHOENIXVILLE—Buck, David
 *Caswell & Moore
 †Sturges, Wm. E.
 Wilson, Thomas J.
PITCAIRN—Agnew, James W.
 Barnhart, W. N.
 Shaner, John W.
PITTSBURG—Addy, John M., 3 S Highland av
 †Ahrens, H. H., 7704 Tioga
 Appleton, Wm. H., 16 Wabash
 Balley, Frank S., 104 Bouquet
 Barnes & Emery, 2424 Carson
 Beltz, Robert H., 1367 Lincoln av
 Bender, P. F. & Son, 5708 Mignonette
 Bergman, D., 63 Climax
 Blackham Bros., 132 Greenfield av
 Blythe, Frank P., 624 Wylie av
 Bosan, Henry, 1301 Grandview av
 Bowes & Cowling, 4104 Butler
 Bruce, Chas. A., 522 2d av
 Buerkle Plumbing Co., 325 2d av
 Burke, Joseph H., 351 Hastings
 Burke, R. B., 528 4th av
 Busse, Reynolds, 112 Wabash
 Central Plumbing Co. (Inc.), 5990 Centerav
 Clements, Wm. J., 716 Carson
 Coates, John J., 36 Carver
 Connor, Jno., 906 5th av
 Counahan, M. J., 5102 Penn. av
 Cowley, John, 125 S Highland av
 Cressell, Edward, 276 Park av
 Davies, R. W., 230 Collins
 Deckenbaugh & Banks, Boggs av & Wymng
 Deely, Thoe., 3250 Dickson
 Deely, Daniel G., 2120 Wylie av
 De Simone, Anthony & Co., 516 Larimer
 Devlin Plumbing Co., 2318 5th av
 Dewitt & Sampson, 311 Brushton av
 Dick, S. M. Plumbing & Heating Co., 205
 Brushton av
 Doelfel, Jno., 112 Greenfield av
 Dolan, William, 2301 Forbes
 Donovan, James A., 719 Magee
 Doris, Jno. F., 573 6th av
 Driscoll, Jer. J., 1709 Webster av
 Drum, Joseph M., 117 S Rebecca
 Durning, James G., 503 Herron av
 Easley, E. A. & Co., 630 Penn. av
 East End Plumbing & Electric Co., 424 N
 Beatty
 Eaton, Ross B., 7623 Penn av
 Ebel, Jno. Jr., 1917 Sarah
 Edwards, Thomas H., 2702 Sedgwick
 Erhardt, Edward H., 401 Lorenz av
 Ewens, Jas. L., 1 Lombard
 Eyerman, Peter, 2315 Wylie av
 Eyrich & Whatmough, 6684 Frankstown av
 Flinch, I. S., 408 3d av
 Fisher, Thomas, 2714 Arlington av
 Folson, J. H. & Co., 424 4th av
 Freund, Andrew J., 2413 Jane
 Friedel, Jno. A., 19 Allen
 Fritsch, William A., 426 Diamond
 Fuchs, Jno. H., 104 Lorenz av
 Garrity & Kleeman, 16 Arlington av
 Gelzhelser, H. & Co., 40 Sterling
 Godfrey, J. C., 1729 5th av
 Gordon, Jno. J., 3 Decatur
 Gould, Ralph P., 6216 Penn av
 Grace Plumbing Co., 1423 Lincoln av
 Gray & Fubrer, 4515 Liberty av
 Gray, S. W., 209 Blgham
 Greller, George J., 5891 Ellsworth av
 Harman, Richard J., 75 S 13th
 Hare, S. W. & Co., 5124 Liberty av
 Harrington, H. C., 2646 Penna. av
 Harris, Daniel D., 187 Climax
 Hartman, Wm., 195 S Main
 Hay Plumbing Co., 5621 Penn av
 Henderson, R., 5527 Walnut
 Henle, A. S., 1336 Penn av
 Henry, Alex. W., 4310 Penn av
 Herrod, Thos., 2 Federal
 Hesser & Black, 5017 Penn av

Hollis Bros., 2312 Patterson
 Holste, Wm. & Co., 315 Water
 Huber, H. H., 7125 Hamilton av
 Hunt, Edw. E., 6014 Center av
 Hunter, Harry C., 1019 Carson
 Joyce, Jno. J., 2705 Forbes
 Joyce, M., 2516 Forbes
 Kauf, Charles, 38 Southern av
 Keeley, August, 6941 Fkn. av
 Kenna, M. J., 4608 Liberty av
 Keueedy, Michael H., 5213 Butler
 Kerrigan, Charles L. & Co., 6714 Frauks-
 town av
 Kinross, William P., 9 Shiloh
 Klarner, Anton, 29 Plns
 Klemm, William & Sons, 3315 Penn. av
 Koehler, Lawrence, 18 Will
 Kohne Bros. Co., 105 Hazelwood av
 Kress-Gillette Co., 4779 Liberty av
 Kuchnerberger, Wm. M., 134 S Highland av
 Laigan, Frank, 721 Copeland
 Lawrence, James C., 6012 Beidler
 Lennox, W. J., 1915 Bedford av
 Leslie, Vaughn K., 6408 Frankstown av
 Letzkus, Thomas F., 78 Washington av
 Lichenstein & Montague, 18 Congress
 Linn, Kuno C., 538 Homewood av
 Lohr & Kaska, 4928 2d av
 McAllister, Chas. & Co., 322 Ward
 McCarrick, Thomas F. & Co., 3806 5th av
 McClintock, Jas. L., 807 Lincoln av
 McConaghey, Chas. M., 7209 Hamilton
 McFadden & Craig Co., 235 4th av
 McGahan, Chas. E., 76 Walter
 McGarry & Martin, 1404 Wylie av
 McGinnis, J. O., 308 Grant
 McGinnis & Co., 132 9th
 McKenna, Jas. A., 11 Decatur
 †McKnight & Victory, 413 4th av
 McMeekin, Robert J., 4700 Penn av
 McShane, J. L. Co., 721 Grant
 Manion, Jas. J., 322 Meadow
 Marshall, T. R., 1617 Forbes
 Matter, J. F., 118 Oakland
 Mautz, Charles F., 1225 Grandview av
 Mercer, Jas. E., 1308 Forbes
 Miller, Geo. M., 1602 Carson
 Mohler, W. C., 5606 Penn. av
 Moore, Chas., 45 Climax, 38th wd
 Morton, Frank W., 5902 Baum
 Muir, James, 7107 Mount Vernon av
 Musrush, John S., 547 N Homewood av
 †National Plumbing & Heating Co., Farmers
 Bank bldg
 Newmyer-Beck Co., 5156 Penn av
 Olmhausen, C. H., 2000 Carson
 Olmhausen Plumbing Co., 1931 Carson
 Patterson & McFadden, 93 Fulton
 Paul & Gill, 5809 Penn. av
 Penn. Plumbing & Heating Co., 6350 Penn.
 Penrose, Albert A., 255 Atwood
 Purinton, H. T., 5908 Penn. av
 Purteit, Michael, 2123 Center av
 Raleigh, John J., 915 Wylie av
 Ramsden, R. W., 1913 Penn. av
 Rau & Genge, 4782 Liberty av
 Reardon, William P., 424 N Highland av
 Redding, Edward, 2705 Sarah
 Reilly, James J., 5141 Butler
 Rennel, Chas., 646 Bryn Mawr rd
 Reynolds Bros., 127 S Beatty
 Reynolds, Jno. B., 7723 Frankstown av
 Rice, Joseph, 120 4th av
 Ricketts Plumbing & Heating Co., 3908 5th
 Robinson, Ernest Co., 110 Shady av
 Rock Bend Plumbers, 6941 Frankstown av
 Rodgers Bros., 127 Collins
 Rodgers, J. M., 6309 Broad
 Rohe, George S., 18th & Monastery pl
 Roney, Jno. A. Co., Frick bldg
 Ruckel & Rupp, 4200 Penn av
 Ruffing & Schaffer, 110 Meadow
 Sands, George, Center & Neville
 Schade, Geo. F., Jr., 4326 Butler
 Scheib, Fred. J., 6243 Station
 Schmucker, Joseph S., 4709 Liberty av
 Schuck, John, 51 Shiloh
 Schulte, J. H., 406 Grove
 Shivers, W. G., 97 Hazelwood av
 Smith, D. B., 624 N Dallas
 Smith & Smith, 910 N Homewood av
 Suively Plumbing Co., 5981 Center av
 Soffel, George H. Co., 425 2d av
 Standard Plumbing & Electric Co., 2 Dln-
 Stanton, Jno. D., 6015 Broad
 Steggert, Jno. H., 1806 Jane
 Steggert, M., 1821 Carson
 Steiner Plumbing Co., 6112 Broad
 Stewart, Geo. B., 6236 Penn. av
 Stewart, W. S. & Co., 1931 Carson
 Stinson, Kennedy & Co., 307 Wood
 Succop, Wm. J. & Co., 4741 2d av
 Sullivan Bros., 7209 Frankstown av
 Sullivan, Maurice F., 5006 Penn av

Sweeney, Jas. A., 3808 Butler
 Tate, John M., 126 2d av
 Thoma, Harry F., 74 Washington av
 Tygard, Myrona M., 5471 Kincaid
 Union Plumbing & Burner Co., 5910 Penn.
 Vailely, Wm. J., 3342 Penn. av
 Walker, H. W. & Co., 5816 Baum
 Wazenegger, Ernest, 1714 Jane
 Weber, Frank, 3715 Butler
 Webster, Fred'k & Co., Phipps Power bldg
 †Weldon & Kelly Co., 305 Wood
 Wells & Newton Co., S Wood
 Whelan, Thos. F., 111 Flowers
 Whitehead, Albert S., 624 Herron av
 Wickes & Co., Hazelwood av c Frank
 Williams, Edw. E., 145½ Frankstown av
 Williams & Lawrence, 145½ Frankstown av
 Wilson & Miller, 605 Grant
 Young, L. G., 3 Chatham
 Zitzmann, George F., 7 Prospect
 Zweig, Jacob, 1813 Center av
PITTSBURGH—Ash, John M. (Est. of)
 Foster, William
 Judge, William A.
 Lewis, W. W.
 Llewellyn, John (Est. of)
 Mackin, Thomas
 †Neilson, G. R., 28 N Main
 †Powers, Austin S., 19 S Main
 †Scrimgeour, John, 6 Broad
PLAIN—Dougherty, P. J. & A. A.
PLYMOUTH—Ayres, R. F.
 Doyle Bros.
 Dymond, E. P.
 Shonk & Snyder
 Spry, Josiah F.
PORT CARBON—Brenner, Alfred E.
POTTSTOWN—†Baldwin, R. J. & Son
 Cunningham & Sheuton
 Davis, N. B. & Bro.
 Seasholtz, Frank
POTTSVILLE—Bast, W. J., 115 N Railroad
 Doyle, John C., 108 E Norwegian
 Foster, H. R. Plumbing & Supply Co.
 Lafferty, Frank, 125 W Market
 Lawrence, Thos.
 Merrick, J. J., Norwegian st
 Meyer, F. P.
 Russell, J. S., 807 N Norwegian
 Seltzer, G. Frederick, 11 W 2d
 Smith, G. M. & Son, 118 W Mahantongo
 Zwickel, Edw., 418 W Arch
PUNXSUTAWNEY—Drummond Plumbing Co.
 McQuown, A. N.
 Mitchell Plumbing Co.
 St. Clair & Son
QUAKERTOWN—Billger, A. M.
 Kollo, William
READING—Bard Hardware Co., 800 Penn
 Bausher, T. C., 105 N 6th
 Benz Bros., 236 S 9th
 Bridegam, William K., Front c G'wich
 Cake, Elmer J., 126 N 6th
 De Hart, H. S., 1126 Chestnut
 DeWitt, A., Birdsboro
 Drexel, Chas. K., 853 Penn
 †Eisenble, George W., 311 Schuylkill av
 Fries, J. & Son, 1440 Perk av
 Fritz, Samuel E., 401 Elm
 Fritz & Seitzinger
 Haines, G. E., 157 Buttonwood
 †Heckman, Wm. A., 16 N 8th
 Helder & Burkhard, 1021 N 9th
 Klemmer, J. A., 929 Buttonwood
 Lalng, T. W., 954 Moss
 Landis, S. E., 605 N 9th
 Leinbach, J. L., 428 N 6th
 Lorah, Amos F., 8 S 5th
 Miller, Frank M., 324 N 9th
 Miller, Jos. G., 924 N 8th
 Row, J. D., 216 N 9th
 †Rowe, Harry T., 938 Penn
 Schoelkoff, A. F.
 †Scull, Edw. & Co., 10 S 5th
 Scull, Jas., 312 N 4th
 Stichter, Geo. H., 145 S 6th
 †Summons, Edw. S., 209 N 6th
 Tomney, J. M., 402 S 5th
 †Wagner, J., 600 S 13th
 Weber, T. E. & Son, 243 Penn
 Wineland, G. A., 377 Schuyl av
 Yeich, Benjamin B., 133 Penn
RENOVO—Cross, Dell
 Jackson, F. K.
 MacGill, John
REYNOLDSVILLE—Burgoon, S. J. & Son
 Lucas & Deible
 Union Plumbing Co.
RIDGWAY—†Bowen, S. E.
 †Cody, C. L.
 Eagen, Frank J. & Co.
 Ledden, T. H.
 †Smith Bros. Co. (Ltd.)

ROCHESTER—Hartzel, J. W.
Rochester Plumbing Co.
ROYERSFORD—Custer, J. L.
Hunsberger, Daniel
ST. CLAIR—Merrick, J. J.
Short, Charles (Est. of)
ST. MARYS—Burden-Rowan, G. R.
Windfelder, Louis H.
SAYRE—Roberts, George L. Co.
Shea, J. L.
Talmage, H. R.
SCHUYLKILL HAVEN—Meyer, Joseph N.
Saylor, Wm. J., Jr.
SCOTTDAL—Dick, John J.
Owens & Hamilton
Owens & Templeton
Scottdale Heating, Plumbing & Roofing Co.
SCRANTON—Borner, E. L. Co.
Brown, Michael J.
Brown & Buckley
Buckley & Blglin
Clark, Thos. H., 335 Phelps
Cleary, William
Connell, J. A.
Connor, Thomas J.
Doyle, Jas. B. & Co., 212 N Main av
Ehrhardt, Wm., 902 Jermyn av
Frederic & Walsifier
Gardner, Horatio N., 602 Wyo. av
Gorman, Jno. J.
Guuster Bros.
Haggerty, A. E. & Co.
Howley, P. F. & M. T., 231 Wyo. av
Johus, Jno. E.
Judge, Dennis E.
Kelley, Michael J.
Langan, Thomas J., 314 Adams av
Lennon & Co.
McNally, Michael V.
Mitchell, James W., 214 Adams av
Mortou & Rowley
Muller, Jacob B., 301 Adams
Nolan Bros., 525 Linden
Nolan, John F., 515 Linden
O'Hara, Joseph F.
O'Malley, Arthur L., 416 Wyo. av
O'Malley, Thos. J., 1808 E Main av
Quick, Jas. I., 509 Lacka. av
Riefenberg, Henry A. & Co.
Saville, Thos. H., 313 N Main av
Schnelder Bros., 601 Cedar av
Sullivan, Wm. E., 315 Spruce
Wardell & Barrett, 335 N Wash'n av
Williams, Lincoln H., 325 N Main
Wolf & Wenzel
Wright, Daniel, 511 Hampton
Zerfas, James F., 333 Adams av
Ziegler & Schumacher
SEWICKLEY—Abercrombie, Alfred, 422 Beaver
Dryna, A. & Son
Patton, John, Jr.
Sewickley Plumbing & Heating Co.
Shearer, W. D.
SHAMOKIN—Blair, Joseph C.
Boughner, W. E.
Cruikshank, John
Farrell & Beard
Ogden, J. T.
Yocum, George C. & Co.
SHARON—Bryson, T. B.
Burn, W. M.
Caldwell, Semple & Co.
Leslie Plumbing Co.
McClain & Whitehead
McCormick, W. M. & Co.
Smith & Gelgle
Stott, James
SHARON HILL—Finigan, W. E.
Garvin, George L.
SHARPSBURG—Milbert, J. J.
Moore, William J.
Riddle-Tate Co., The
Stauding, William A.
SHARPSVILLE—Kitch & Mower
Leslie Plumbing Co.
SHENANDOAH—Bell, Patrick W.
Goff, William
Hilderbrandt, Charles
Leach, M. J.
McCarty & Morgan
Morgan, Isaac
Smith, Charles E.
Williams, J. H.
Williams, W. P.
SHERIDANVILLE—Chrystle, J. F.
Crumley, W.
Florence, W. V.
Griffith, W. T.
Murray, Richard B.
Pyle, H. M.
SHIPPENSBURG—Grove, S. A.
Hays, E. S.
Powell, John B.
Walters, G. F. & Son

SLATINGTON—Fritzinger, Wm. A.
Osler, Edwin
SOMERSET—Rhoads, D. W.
Schell Hardware Co.
Weimer, Edward
SOUTH BETHLEHEM—Dietrich, H. A. R.
Green, Charles H.
Meglathery, E. H.
Newhard, E. M.
O'Brien, Thomas C.
SOUTH FORK—Stewart, J. D.
Wells, R. & Sons
SOUTH SHARON—Davidson, John E.
McVey, W. & F. P.
Wager, Will
SPRING CITY—Matthews, Alfred I.
Mowrey-Latshaw Hardware Co.
STEELTON—Dunn, U. K.
Given, W. W.
Hoke, H. B.
Kelley, J. C.
Pannell, Clarence M.
Shutter, Charles
STROUDSBURG—Archibald, H. O.
Flory & White
Schroeder, C. H.
SUNBURY—Bartholomew, Harry
Fegley, David A.
Garverick, H. E.
Hill, Walter S. & Co.
Kuebler, W. H.
SUSQUEHANNA—Doolittle, J. H.
SWISSVALE—Lauer, J. A.
Madigan, S. J. & Co.
Swissvale Plumbing Co.
TAMAQUA—Hadeedy, J. M. & Son
Reaser, E. R.
Springler, D. E.
Williams, J. L.
TARENTUM—Fitzharris, M. W.
Lardin, James H.
TAYLOR—Jones Hardware Co.
TITUSVILLE—Burns, John F.
Gillen, M. J.
McFadden, C. H.
Moran, William
Wolf, John G.
TOWANDA—Carman, M. & Son
Depue & Harden
Lewis, James
TURTLE CREEK—Cramer & Williams
Jones, Wm. C.
Laurence & Crumpton
Ludeke, H. J.
Murray, J. C.
Stewart, J. T.
Winters, W. L.
TYRONE—Cutler, Harry
Nell, S. S.
Trego, P. H.
Tyrone Plumbing, Heating & Supply Co.
UNION CITY—Mullen Bros.
Warner, Frank E.
UNIONTOWN—Burd & Williams
Cheeks, John B.
Cheeks & Craig
Coffman, I. L.
Hathaway & Davis
Hunter Heating & Plumbing Co.
Johnson Machine Co.
Le Clair & Co.
Miller, Wm. R.
Robinson & Walters
Titus, C. L.
Williams Plumbing Co.
VANDERGRIFT—Hamilton, S. W.
Kuhns, H. J.
WARREN—Central Plumbing Co.
Pickett Hardware Co.
Shellhammer & Son
WASHINGTON—Anderson, C. E.
Burte, T. F.
Earley, John R.
Foley, W. M.
Neff, J. E.
WAYNE—Fox, George
Shallline, Geo. B.
WAYNESBORO—Adams & Cline
Moore, Geo. W.
Russell, Geo. H.
Stover, Frank
WAYNESBURG—Clark, W. H.
Hunnell, L. D.
Specht, A. C.
Zimmerman, Mrs. H. J.
WEATHERLY—Nuss, L. C.
WELLSBORO—Roberts & Gardner
WEST CHESTER—Apple Plumbing & Heat
ing Co., 114 E Gay
Davis, Louis N.
Fitzsimmons, George T., 121 Market
James, W. H.
Mayer & Eachus
Oat, George R., 19 E Gay

WEST NEWTON—Holbert, W. R.
Timms, Finley
WILKES-BARRE—Allegar, Robert H.
Allen & Fell
Baab, Frank, 346 S Main
Bauer, John G.
Becker, Peter & Son
Brady & Hochberg
Brislin Bros.
Campbell, James H.
Carpenter, B. G. & Co., 6 W Market
Connor, Harry & Co.
Fluegel & Speicher
Forve, Peter, 114 N. Main
Hockreiter, Martin
Jones, Rutherford H.
Kaiser, Wm. & Son, 153 S. Main
Kenworthy, Rudolph, 48 E Market
Liem, J. W. & Co.
McCabe & Gilligan
Madden, Michael H.
Metzgar, Wm. M.
Montauye, J. H., 36 N Main
Schonk, Edw'd P.
Schuler Bros., 76 Hazel av
Spangelberger, Parry & Co., 642 S Main
Struthers, James R.
Turner & Van Scoy, 52 S Main
Wilkes-Barre Plumbing & Heating Co.
Williams, Chas. M., 3 S Meade
WILKINSBURG—Allen, T. M., 819 Wood
Conrad, J. H., 723 Wood
Cornelius & Ludwlg
Elkin, F. B.
Johnson & Co., 710 Trenton av
McLachlin Bros.
Minteer, S. Y.
O'Donnell, F. J. & Co.
Story, A.
Swift, Chas. M., 807 Penn av
Walp, Ford
Wilkins, James K.
Wilkinsburg Plumbing & Heating Co.
Wilson, Joseph
WILLIAMSPORT—Beiter, Charles
Bell, Charles T.
Cockburn, J., 52 Arch, Newberry
Croll, G. W. Co., 410 Campbell
Freeburn, W. H.
Hunt & Harding, 111 3d
Love & Co.
Model Plumbing & Heating Co., 506 Market
Romig & Ryan
Trexler, F. H., 224 W 3d
Villinger, J. W., 46 W 4th
Welteroth Supply & Cons. Co., 329 Wash'n
WILLIAMSTOWN—Adams, Arthur
WILMERDING—Anchinclose, W. F.
Vorce, E. G.
WINDBER—Warfel, James G.
Windber Plumbing & Supply Co.
WYNCOTE—Tyson, Edwin
YARDLEY—Pickel, Lewis M.
YORK—Aughenbaugh, G. H.
Baker, M. H.
Bare, Plus J.
Behler, F. W.
Blum & Eyster
Dome, Jacob
Erlon, Jacob H., 117 S Duke
Goetz, John Sons
Hantz, C. Edw.
Hantz, Lincoln B.
Heckert, E. P. & Co.
Householder, H. S., 20 E Market
Kohl, James F. & Co.
Kottcamp, Charles C. & Son, 511 W Market
Kuehn, Jacob L., 106 N George
Lichtenberger, Charles
Marks, B. R.
Schall, William J.
Selak, Harry J.
Shive & Emig
Simon, Martin
Smith, Edward A.
Smith, H. E.
Stillinger, Charles S.
Voss, Jno. A.
Walker, Jos. A., 24 N George
Wantz, Milton A.
Wise, Chas. V., 541 S George
York Engineering Co. (Inc.)

RHODE ISLAND.

ANTHONY—Foster, H. N.
Matteson, Erban
APPONAUG—Harrop, Geo. E.
BRISTOL—McGann Bros.
Morrisey, Edward C.

CENTRAL FALLS—Anderson Bros.

Brennan, Chas. F.
Brule, H.
Central Falls Plumbing Co.
Dauray, Omer
Walker, John W.
Wilkluson, W. R.

EAST GREENWICH—Lovell, Geo. B.**EAST PROVIDENCE—†Birthwell, Archibald**

Davey Bros.
McGuirl, John T.

JAMESTOWN—Armbrust, F.

Davis, Wm. S.

NARRAGANSETT PIER—†Griffith, Wm. H. & †McInnes, David Co.**NEWPORT—†Barker Bros. & Co.**

Butler, Maurice
Cremm, John
Goddard, Stephen L.
Haire, Joseph
†Hammett, Lincoln & Co.
†Kelly, M. F.
†Lynch, J. J. & Co.
Marks, John H.
Munford, L. R.
Murphy, P. J. & Co.
Murphy, Thomas J.
Openshaw, Edw. W.
Openshaw, James Co.
Rose, Alva E.
Sharpe, Thomas
Sullivan Bros.
Wilson, Ray B., Jr.

OLNEYVILLE—(See Providence)**PASCOAG—†Smith, J. H.****PAWTUCKET—Allen, R. W., 157 Trenton**

Casey & Singele, Pawtucket av
Corden, Jno. F., East av
†Davis, Frank, Main
Dupuis, Frank
Goodwin, W. F. Co.
Graham, Henry L., 27 N Union
Holburn, Hugh S.
Hunt, Jos. B., 73 N Main
Lennon, John, 69 Main
McIntyre, Hugh F., 34 Cedar
McParlin, Owen
McElhenny, Wm. J.
Muirhead, James
Naismith, Albert E.
Parks, Edwin S.
†Pawtucket Steam & Gas Pipe Co., 32 East
†Rowe, Wm. H. & Co., 104 N Main
Tattersall, Matthew
Thornley Bros., 265 Lonsdale av
Wadsworth, John

PHENIX—†Carroll, T. M.**PROVIDENCE—Allenson Bros., 9 Steeple**

American Plumbing Co., 56 N Main
Appleton & Lee, 1880 Westminster
Bannon, Jas. T., 1865 Westminster
Barry, Edw. & Co., 1487 Broad
Berry, Robert H., 459 Smith
Birthwell, Archibald, 188 Eddy
Blackmar, C. R. Co., 2 Wellington
Brennan, Christopher P. & Co., 1 Waterman
Briekley, Jas. G., 100 Sheldon
Burke, Pat'k F., 70 Hyat
Burnside, Matthew H. A., 289 Plainfield
†Burton, David, 25 Page
Caffrey, Thomas, 46 Abbott
Cain, Wm. J., 745 N Main
Capaldi, Jos., 124 Atwells av
Carey, John L., 710 Westminster
Cassidy, Chas. W., 363 Admiral
†Catrell, Jas. E., 146 Smith
Chase, S. Frank, 25 Randall
Chase & Mackey, 197 Dean
Collison, Henry, 11 Haymarket
Conaty, P. J. & Co., 735 Eddy
Condon, Thos., 199 Montgomery av
Congdon, Wm. M., 290 Cranston
†Connolly & Wright, 45 B'way
†Conroy, Jas. C. & Co., 446 Westminster
Darling, James A., 1252 Elmwood av
†Dauphinee, H. H. Co., 1513 Broad
Donnelly Bros., 175 Regent av
†Doyle, Thos. F., 87 N Main
Dunn, Jno. C., 45 B'way
Dupuis, Frank, 157 Orange
Fish, Geo. L., 29 Broad
Fuller, Job S. & Son, 14 Page
Gaughan & Cuff, 587 Broad
Geer, Geo. M., 211 Eddy
Gifford Bros., 888 Westminster
Graham Bros., 215 Prairie av
Greenhalch, James W., 1119 Elmwood av
Hainsworth, Albert, 559 Branch av
Harrison, Simon & Co., 358 N Main
Heck, Chas. F., 190 Dean
Holmes, D. F. & Co., 65 Eddy
Hubeley, F. E., 80 Richmond

†Hudson, Thomas I., 15 Cranston
Hunt, J. W. & Co., 24 Chestnut
Hussey, Wm. F., 416 Wickenden
Johnston, W. C., 1937 Westminster
Jones, E. & S., 298 Eddy
Keenan, John F., 42 Beacon av
Kehoe, P. H., 374 Friend
Keller, William L., 391 Elmwood av
Kellogg, A. O., 250 Eddy
La Pearl, N. B., 639 Plainfield
Lees, F. G., 139 Weybosset
Linnell, J. H., 230 Plainfield
Loughran, P. E., 236 Meeting
†Lovegrove & Burlingame, 955 Westminster
McCarthy, Dennis, 86 Wickenden
McCarthy, Thos. F. & Co., 130 Clifford
McCormick, M. J., 216 Richmond
McElroy, Jno. C., 61 Penn
McGann, John T., 13 Yorktown pl
McKeen, Thos. J., 117 N Main
McKenney, Edw., 557 Eddy
McPhall, David, 8 Chalkstone av
Macaulay Bros., 188 Ocean
Manney, Thos. E., 164 S Main
Matteson, A. B., 89 Mathewson
McLarkey Bros., 641 Charles
Milner, Jesse T., 300 Broad
Morrissey, Jas. P., 920 Atwells av
Mulvihill, Jno. E. & Co., 3 N Main
Murphy, M. F., 11 Greenwich
N. E. Ventilating & Heating Co., 928 Man-
†O'Connor, Patrick, 26 College ton av
O'Loughlin, Jas. H., 88 Cranston
O'Neill, William H., 56 Charles
Phillips, James, 136 Academy av
†Phillips & Phillips, 90 Pine
Potter, Chas. L., 77 S Main
Providence Plumbing Co., 351 Point
Quirk Bros., 577 Cranston
Read, Michael J., 754 Eddy
Riccielli, Giovanni, 143 Acorn
†Rice, W. C. & Co., 24 Cranston
Richardson, Wm., Jr., 194 Pond
Rossiter, A. T., 464 Plainfield
Salter, Jno. C., 372 Weybosset
Scott, Edwin & Co., 428 Eddy
Shanley, Jno. J., 70 Richmond
Smith & White, 158 Delaine
South Providence Plumbing Co., 829 Broad
Stevenson, L. C., 47 Weybosset
Thompson, W. B., 853 Westminster
Thornley, G. W., 82 Orange
†Tierney-Colgan Co., 456 Westminster
Tierney, P. & J. Co., 522 Westminster
†Trudon, L. P. & Co., 1002 Westminster
†Walker, Preston R., 217 Broad
Walsh, Jno. F., 292 Prairie av
Warburton, Jas. T., 926 Broad
†Whittaker, Wm., 32 Plainfield
†Winsor, Ira & Co., 169 Dorrance
Wright, Jno. S., 3 Benefit
Wright, Wm. F., 840 Eddy

VALLEY FALLS—Blackstone Plumbing Co.

Dwyer, William J.
McGirr, F. H.

WAKEFIELD—Snow & Unsworth

Walcott, A. E.

WARREN—Brochu, Felix

Lent & Barry
McNiff, C.
Seymour, H. A. Co.

WESTERLY—†Drysdale, Robert & Co.

Manchester, S. & F.
†Randall, A. P.
Richmond, Eugene S.
Riley, Arthur R.

WICKFORD—Hainsworth, Jno. W.**WOONSOCKET—†Barry, James P. & Co., 26 N Main**

Beaudet Bros.
Bouvier, Napoleon
†Coburn, Fred. S., 243 Main
Garneau, Fred. A.
Giard, Alphonse
Gobeille, Fred'k J., 66 N Main
Grimord, George
Healy, Thomas F.
†Hope, Willis E., 315 Main
Laferriere, Joseph
†Mulvey, B. F. & Co., 13 Clinton
Mulvey, J. F. Plbg Co.
Roberge, Jos., 45 River

SOUTH CAROLINA.**AIKEN—Hyer, W. C.**

Scott, George S.
Smith, W. H.

ANDERSON—Anderson Hardware Co.

†Sullivan Hardware Co.

CAMDEN—Burns & Barrett

Goodale, N. R.

CHARLESTON—Beard, J. C., 608 King

†Blake, C. W., 206 King
Campbell Supply Co.
Droze, E. M., 555 King
Finnegan, J. J., 156 Meeting
Lewis, J. R., 163 Coming
†Masters, R. M., 127 King
Morris, R. J., 130 King
†Paddon, W. F., 389 King
Regan, John J., 202 King
Riley, A. J., 143 King
Roberts, J. H., 453 King
Smith, Julius E., 117 King
Tobin, J. F. & Bro., 377 King
Torlay, F. L., 13 Beaufain
Welsh, Wm. & Son, 147 Meeting
Williams, T. J., 1 Archdale
CHESTER—Chester Plumbing & Heating Co.
Murr, W. H.

COLUMBIA—Bassett, H. J.

Browning, L. L.
Carolina Plumbing Co.
Cumptsy, A. D.
Gulmarin, W. B. Co.
Plumer, Eugene C.
Tompkins, L. S.
Wood Plumbing & Roofing Co.

GEORGETOWN—Conklin, W. H.

Haselden, E. C.

GREENVILLE—Barr Hardware Co.

Fahnestock Bros.

Harrison Bros.

GREENWOOD—Reynolds, F. B.**LAURENS—Boyd, S. S.**

Laurens Plumbing Co.

SPARTANBURG—Harty, C. W.

†McCants, S. F.

SUMTER—Hood, H. W.**UNION—Murrah, T. A.****SOUTH DAKOTA.****ABERDEEN—Disotell, Wm. A.**

Dow & Dow
Dresselhub, C.
Kelley, L. W.
Symms-Powers Co.

CANTON—Barrows, Fred A.

Klove, H. R.

Svenson, Charles

HOT SPRINGS—†Gillespie, John H. & Co.**HURON—Ramsel, Richard**

†Shaw & Madsen

LEAD—Coolidge & Bro.

Traut, Anthony

MITCHELL—Austin, George W.

Barnes, E. C.

PIERRE—Westlund, Olof**SIOUX FALLS—†McGovern, Charles**

Sanders, E. M.
Sioux Falls Heating & Plumbing Co.
Symms-Powers Co.

WATERTOWN—†Hess & Rau

Smith, Fred. L.

Wadsworth, Ben. D.

YANKTON—Sampson, O. E.

Todd & Vinatieri

†Wiggins, T. L.

TENNESSEE.**BRISTOL—Banks & King**

Blevins, R. L.

Hayes, Fred.

Hayes, R. B.

Hobson, J. Lynn

Riley, Jos. W.

CHATTANOOGA—Bork & Co.

†Carlin, R. O.

Cornes & Colston

Cotter, J. D.

Fox, Frederick, Jr., 104 E 8th

Giffe, J. C., 518 Market

Knoedler & Webb

McQuade Plumbing Co.

Murphy, D. J., 811 Broad

Pechman & Pechman

†Wilcox, T. S., 210 A

Williams & Wood, 818 Cherry

CLARKSVILLE—Ahern, J. P.

†Bates, E. C.

DYERSBURG—Chamblin & Patton

Seat, Glenn L. Co.

FAYETTEVILLE—Fayetteville Plumbing Co.

Robertson & Goodrich

LATIN—House, Jas. & Son

House & Maddox

JACKSON—†Anderson, G. C.

Cockhill Bros., 111 N Church

JOHNSON CITY—Biddle, C. O.

†Johnson City Foundry & Machine Works

KNOXVILLE—†Ahler, J. A. Plumbing Co.
Dearing, E. L., 707 S Gay
Engert & House
Hannitin, J. A., Deadrick bldg
Knoxville Plumbing Co.
Long, J. F., 614 Custom House
†Rourke, M. F. Co., 715 S Gay
MEMPHIS—†Bailey, J. A. & Co., 336 2d
Bluff City Plumbing Co., 9 Hermando
†Browne & Borum Co.
Callahan & Co., 65 Jefferson
†Eichberg & Lang Mfg. Co.
Hauser, F. J., 98 5th
Haynes & Shinnick, 316 3d
Lagomarsino, A. & Co., 127 Rayburn av
Laure & Co., 38 Poplar
McGowan & Couilleus, 310 2d
McMillan, W. H., 22 Huling
Massa, J. P., 387 2d
Pritchard, Evans & Co., 71 Union
†Rawlings, E. L. & Co., 61 Jefferson
Schultz, C. J., 383 2d
Stanton, B. P. & Co., 318 Front
Tisdale, Lew & Co., 313 2d
Tweedy, G. T., 12 Adams
Walsh, M., 234 3d
†Woods, Martin, 105 Poplar
NASHVILLE—Demerick, Gus.
Grewar, David Co.
†Healy, Jas. A., 412 N Cherry
Herbreck & Lawrence, 607 Church
Jonte, N. S., 112 N Cherry
†Kane, M. & Bro., 311 N Summer
†Kennedy & Co.
†Mogan, J., 313 Cedar
†Mooney, T. J. Co., 617 Church
†Nashville Plumbing Co., 600 Broad
Park, J. L., 231 N Market
Preston & Whitehead, 411 N Cherry
†Roesch, Charles E., 307 N Summer
†Ryan & Son, 315 N Summer
Shea, M. & Sons

TEXAS.

ABILENE—Epperson & Gibson
Jennings, Walter
†Leavell, S. H.
†Spaulding Bros.
AUSTIN—†Burke Plumbing & Electric Co.
Martin, John L.
Raven, E.
BEAUMONT—Eastham, E. E.
Grubbs, J. E.
BELTON—Hamilton & Kigley
Tulloch & Carlisle
BROWNWOOD—Blinn, E. A.
Hart Plumbing Co.
CALVERT—Emmerich, Jno.
CLEBURNE—Cleburne Plumbing & Electric Co.
CORSICANA—†Brooks, F. S.
Wooley, J. H.
DALLAS—Brown, Emmett L., 173 N Akard
Campbell, F. A., 107 Murphy
†Carroll, S. C., 353 Commerce
Dallas Plbg. Co.
Davis, E. S., 107 N Market
†Donovan, Walter, 128 Ross av
Johnson, Frederick A. & Son, 375 Main
Kahn, Harry
Kane, Jno. D. & Co.
McWirk, A., 141 N Ervay
Madigan, J. J.
Sanderson, George W.
DENISON—†Campbell & Co.
†Waltz, Chris.
EL PASO—Keating & Hackett
Mattice, George H.
Richey, R. D.
Riley, Frank
Seln, J.
ENNIS—Blakey, J. & Co.
FORT WORTH—Barry, James A.
Glenk, C. B.
Hooker Electric & Plumbing Co.
†Kane Co.
Kane & Barbuzza
Oberhoff, Gustave H.
Rogers, John A. & Son
Van Zandt Plumbing & Heating Co.
GAINESVILLE—Coleman, W. W.
GALVESTON—Bisbey, S. A. Plumbing Co.
Diercks, C. H.
Galveston Gas Fitting & Plumbing Co., 2422
Grahm, Arthur H., 2311 P. O. st Market
†Kirk, Thomas J., 215 22d
Mace, Thomas J., 516 Tremont
†May & Wainwright, 2209 Mechanic
†Rattisseau, W. W., 605 Tremont
†Shean, P. Sanitary Plumbing Mfg. Co.,
Wilcox, C. K. & Co., 2116 Mechanic
GONZALES—Boothe & Lewis
Franks, W. C.

GREENVILLE—Martin, W. A.
Monroe, W.
HILLSBORO—McQuatters Plbg & Machine Co.
Smith-Tomlinson Co.
HOUSTON—Collins Bros., 210 Milam
Condon, C. H. & Son
†Keithly, Hodge & Co., 1012 Prairie av
Lead Pipe Plumbing Co., 1021 Capitol av
†Modern Plumbing Co., 1113 Congress
†Otter, W. W., 1518 Leland av
Robischung, Geo. J., 1606 Congress av
Thiel, John W., 513 Main
Van Liew, Fred C., 718 Travis
LAREDO—†Deutz, Adolph & Bro., 1220 Itur-
bide
†Netzer, Joseph
MARSHALL—Baertich, W. S. & Co.
Hayes, E. B.
†Logan & Whaley
ORANGE—McCorquodale, W. E.
PALESTINE—Fenton & Burns
Noble Plumbing Co.
Weller, John & Co.
PARIS—Baty Plumbing & Electric Co.
Burke, J. F.
†Paris Steam Heating Co.
SAN ANTONIO—Alamo Plumbing Co.
Bowman, Jonathan, Av C
Braden Plumbing & Electric Co., 22 W Com-
merce
Cynamon, H., 210 S Alamo
Krakauer & Piper
†Schuwirth, William & Co., W Commerce
†Shafer, A. H., 125 W Commerce
†West & Gutzeit, St. Mary
SHERMAN—†Madden, J. F. Plumbing Co.
†Sherman Plumbing Co.
TAYLOR—Barton, T. P.
Frietag, Walter H.
TEMPLE—Baker, Y. Q.
Brunner & Gardenhire
Burt, H. M.
TERRELL—Cunningham, Robert J.
TEXARKANA—†Chatfield & Buhrman Hard-
ware Co.
Dailey, T. F.
†Hoffman, J. G.
Ledwidge, J. J.
McChesney, L. P.
TYLER—Frizzell, J. D.
White, H. B.
VICTORIA—Wheeler, William
WACO—Brazleton, H. C. & Co.
†Hill Bros. & Co.
Vance, E. J. & Co.
†Waco Plumbing Co.
WAXAHACHIE—Dillon, C. M.
Knight, W. A.
WEATHERFORD—Camp & Co.
Smelker, T. S.

UTAH.

LOGAN—Palmer, A. H.
Tarbett, Joseph
Wadman & Burnham
OGDEN—†Dallimore, W. J., 2375 Wash'n av
Halverson Bros., 2524 Washington av
Krumperman, Jno. F.
Macbeth, James, 2438½ Washington av
†Meek, A. W., 447 25th
†Zitzman, Lewis, 2309 Washington av
PROVO CITY—Blumenthal, H. G.
Langley, H. G.
Williams, W. A.
SALT LAKE CITY—Anderson, F. A.
Anderson Bros.
Backman, S. C., 154 S 6th, West
Carthey & Dumbeck, 219 S State
Davies, H. B., 128 E 2d, South
†Doyle, George G. & Co., 211 S State
Erskine Bros., 49 West 1st, South
Evans, David
Farrell, J. J.
Gorman Plbg Co.
Green & Reeve Co., 104 E 2d
Higham-Burton-Taylor Plbg Co.
Highley, I. M. & Co., 109 E 1st, South
†Higson & Rossiter, 105 E 1st, South
James, D. W. & Co., 65 E 2d, South
Midgley, D. & Co., 135 E 2d, South
Midgley Bros.
†Moran, P. J.
Nelson, Joseph & Co.
Rees, Will
Snedden, Robert
Spencer & Davidson
Taylor & James

VERMONT.

BARRE—Averill, Charles W. & Co.
†Prindle, Eugene A.
Russell, O. C.
BELLOWS FALLS—†Albee, George B.
†City Plumbing & Heating Co.
BENNINGTON—†Newton, W. D.
Vail, Frank H.
†Winslow & Craven
BRATTLEBORO—†Cox, A. V.
†Fleming, Patrick
†Galvin, John
Pentland, W. J., Jr.
Rowe, Harry
BURLINGTON—Bergeron, Joseph F.
†Buckley, W. H. & Co., 198 Main
†Devereux, Peter, 18 George
†Lanou, J. E., 166 North
McDonough, Frank T.
†Meagher, Martin, 66 Pearl
†Nash & Cunningham, 4 N Winooski av
†Wheelock, T. A., 118 College
FAIR HAVEN—Bryant, O. A.
Herbert, Louis J.
Lamphere, M. T.
HARDWICK—†Marsh, O. H.
MIDDLEBURY—†Calhoun, A. & Son
MONTPELIER—†Davis, E. E.
†O'Neil, W. E.
Peck Bros.
Thompson, F. H.
Wedge, Frank H.
NEWPORT—Carr, Fred. W.
NORTHFIELD—Emerson Bros.
POULTNEY—McCarthy, Michael
RANDOLPH—†Lamson, J. H.
RUTLAND—Adams, B. A.
†Connolly & Loveland, 71 Wales
†Hubbard, R. G. & Co.
Pratt, G. W. & Co., Main, W. R.
ST. ALBANS—†Greene, S. C.
Leahy, J. M.
ST. JOHNSBURY—†Farnham & Albee
Goodrich, H. J.
Goss, Chas. H. & Co.
VERGENNES—†Hudson, Robert
WHITE RIVER JUNCTION—†Bagley, E. H.
Bilings, Frank P.
WINDSOR—†Reed, S. A.
WINOOSKI—†Bigwood, S.
Goodall & Spear
Shipman & Allen
WOODSTOCK—Myers, M. S.
†Wardwell, E. F.

VIRGINIA

ABINGDON—Rhea, S. H.
ALEXANDRIA—†Cogan, J. A.
†Cuviller, S., 112 S Fairfax
Desmond, W. J., 113 S Pitt
Hughes, Jas. B. & Son
Stanton, J. D., 210 King
BEDFORD CITY—Blankenship, W. L.
Chase, W. P.
BERKLEY—Hampton, J. M. & Co.
Meginley, Wm. C.
Smith, White & Co.
West, Jas. W.
White, E. C.
BUENA VISTA—De Priest, Robert A.
CHARLOTTESVILLE—†Thomas, R. L. & Co.
Wood, J. Edwin Co.
COVINGTON—Coutts, R. R.
DANVILLE—†Danville Plumbing & Heating Co.
Farley & Co.
HAMPTON—Copeland, J. F.
Taylor, Charles T.
HARRISONBURG—Burke, J. P.
Thomas & Co.
LEESBURG—†Cline & Son
Leslie, J. H.
LEXINGTON—Anderson, R. S.
Beckwith, A. B.
LYNCHBURG—†Cleveland, E. A., 812 Church
Cowhig, R. P.
†Edmonds, P. V., 709 Main
McNamara, J.
Seay, J. D.
MANCHESTER—Burkert & Williams
Fahr, Augustus W., 919 Hull
Hogan, L. H.
Meighan, Chas. M.
NEWPORT NEWS—Brittingham, O. J.
Richter, Geo. M. & Co.
Sanitary Construction Co.
Stone, C. E.
Vandergrift, J. A.
NORFOLK—Bohlken, W. C. & Co., 446 Water
†Carey, Thomas J., 88 Bank
Doran, John P., 209 Queen
†Fairer, Alfred W.

When writing to firms listed
in this book please mention
HENDRICKS'
COMMERCIAL REGISTER

Fulford, William R.
Graham & Fairer, 110 Bank
†Guy, Jas. R. & Co., 28 Cove
†Guy's, E. E. Sons, 35 Bank
Heller, Philip H., 474 Church
Hitt, Fred'k, 103 S Park av
Hopkins & Tumbleson, 50 Bank
Jones, Chas. B., 722 Brambleton av
†Kemp, A. W.
Keys, M. F. & Co., 396 Church
Klarnan, James V., 137 Bank
†Lawler, Jos. J. & Co., 95 Bank
Lewls, Robt. B., 134 Granville av
Lum, Alonzo L. & Co., 212 S Park av
Lyons, George H.
McLaughlin, Frank R.
O'Connor, Stephen J.
Saar, F. A. & Co.
†Stanley, O. A., 162 Bank
Thornton & Williams, 153 Bank
Vellines & Pitt
Williams Bros., 89 Bank
Wilson & Co., 100 Bank
PETERSBURG—Eichburg, Emanuel, 208 N
Hall, W. L. Sycamore
Sommers, W. H.
†Stratton-Bragg Co.
PORTSMOUTH—Albert, Richard L., 520 Mid-
dashiell, Oscie, 507 South dle
Ellsworth, E. E.
Hewitt, Judson D.
Jones, William E.
Portsmouth Plumbing Co.
†Whitehurst & Riley, 516 Crawford
PULASKI—Pulaski Plumbing & Roofing Co.
RICHMOND—Anderson, Jno. W., 710 E Main
Atkinson, W. T., 1810 E Main
Berger, B. A., 2209 E Main
Bowman & Gregory, 100 Governor
Bruce, Dallas S. & Co., 807 E Franklin
Carter, Horace A., 409 E Marshall
Chappell, Jas. H., 724 E Main
Cosby, Chas. H. & Co., 423 W Broad
†Dalton, F. S. & Co., 16 Governor
Day, J. Rudolph, 517 N 24th
Delaney, Howard M., 11 N 7th
Doherty, M. L. & Co., 312 Brook av
Dorset, L. W. & Co., 781 E Cary
Eanes & Thorp, 1211 W Main
Fensom, Wm. R., 902 W Canal
Ford, Bowers & Co., 23 E Main
Francis, James E., 615 W Main
Grinnell's, H. Sons, 304 E Broad
Guldt, Wm. H., 25 N 12th
Hayes, James, 821 E Main
Howle, Jas. H., 409 W Cary
Klein, N. & Son, 620 E Broad
Kritzer & Creery, 511 N 23d
†Longworth, W. P. & Co., 1 N 7th
Lynn, Henry C., 407 Brook av
Mahoney, W. F. & Co., 707 E Main
Manning, C. Plumbing Co. (Inc.), 1443 E
May, Alex. H., 212 N 5th Main
†Mills, Morgan R., 809 E Franklin
Mltcheil, Thos. W., 409 W Cary
Mountcastle & Co., 517 W Broad
†Pemberton & Benson, 320 E Broad
Phillips, James E. & Son, 1421 E Main
Phillips, Rogers Co., 802 E Broad
Rose, Jno. E. & Co., 800 E Broad
Rose, Jno. H. & Co., 1427 E Main
Sargent, J. W., 620 E Main
†Southern Plumbing & Electric Co.
Tinsley, Thomas C., 511 Graham
Whitlock, Druid H., 16 N 9th
ROANOKE—†Engleby & Bro. Co., 17 Salem av,
Farrar Sons Co. S W
Hesser, W. R.
Kenard, A. J., Campbell av, S W
†Markley, George E. & Co., 207 2d, S W
SALEM—Deyerle, W. O.
†Salem Heating Co.
SOUTH BOSTON—Franklin, A. F.
Penick, R. A. & Son
STAUNTON—Augusta Plumbing & Heating Co.
Crimmins & Kilgallen
Hounihan, Jno. D.
SUFFOLK—Lawrence, W. B.
WINCHESTER—Reed, M. T.
Seal, Charles E.
Snyder, J. H.
WYTHEVILLE—Mills, J. H.
Pattison, B.

WASHINGTON.

ABERDEEN—Armstrong, O. T.
Grays Harbor Plumbing Co.
Peterson, Carl
Pinckney, C. A.
Semmens, Andrew

BALLARD—Crossett & Wright
Ernst Bros.
Solomonson, Johu T.
BELLINGHAM—Browne, L. O.
Christopher & Blythe
Dewis, John
Hinsdale Hardware Co.
Mayhew, S. B.
Myers, S. J.
†Stoddard, Charles W.
COLFAX—Brown, John B.
ELLENBURG—†Ferguson, E. C.
EVERETT—†Barton, R. W.
Brown, Homer C.
Francois & Zeigler
Richards & Stevens
Schweitzer, C. R.
HOQUAM—Chisholm & Quinn
†Fessenfeld, W.
Heermans, H. C.
Randall & Philbrick
NORTH YAKIMA—Reiley, Daniel
OLYMPIA—Barton & Co.
†Binneimer, W. W.
†Jones, M. W.
†Martin, Geo. & Son
Olympia Hardware Co.
PORT TOWNSEND—Adams Hardware Co.
Jones & Crouter
PUYALLUP—†Hood, Chas.
SEATTLE—Bailey, W. H., Columbia (City)
Baker & Son, 314 Yesler way
Blouin, J. E.
†Browu, G. H. & Co.
†Coughlin, John, 813 3d av
Crane Co., 165 Jackson
Curtiss, Wm. M., 2d av nr Ballard av
†Dale Plumbing, Heating & Cornlce Co.,
†Donaldson Bros., 108 Union 112 Marlon
Ernst Bros.
Fox, T. O.
Fraser, J. A.
Freeman & Milne
Fremont Plumbing Co.
†Glennon, P. J.
Green Lake Hardware & Furniture Co.
Hein, F. A. & Co.
Hein, Louis N.
†Holmes Plumbing & Heating Co., 115
Johnston, J. A., 323 1st av, S Seneca
Jones & Batchelor
Kelly, J. C., 201 2d av, S
Knight, M. G. & Co.
Krause, C. E.
Krows, W. M., 222 Union
Lavine & Thomas, 4213 14th av, N E
McLaurin, D. A., 1319 E Madlson
McRobert Bros., 1026 Pike
Mades, Jacob, Olympia av, nr Park, W. S.
Manaway, J. W., 2402 1st av
Modern Plumbing & Heating Co.
Moffatt Bros., 812 3d av
Mullin, William B.
†Pacific Heating Co.
Ranier Plumbing & Heating Co.
†Rautman Plumbing & Heating Co., 1310
Arcade way
†Rustad Corporation, 215 Yesler way
†Seattle Heat & Plumbing Co., 902 Post
†Shaw, C. M. & Co., Colman dock
Sivesind, H. A.
†Spellman, D. B. Co.
Spriggs & Nashem
Stack, Jos. H., 320 2d av, S.
Stickels, H. R., 1018 3d av
Sullivan Bros.
Swanstrom, G. H.
Sweeney, H. & Co., 1512 5th av
Thomas & Talbot, 1216 E Madison
Tibbetts, G. W.
†Turner, Theodore, 117 Marlon
Ward & Scherer
Westover, Walter
Woodhouse, George H. Co.
†Young & Potter, 1106 3d av
SPOKANE—§Arnold, Evans & Co.
Bliss, L. D.
Falls View Plumbing & Heating Co.
Gaebler Plumbing Co.
Green Bros.
Hebden Plumbing Co.
†Hendrix Bros.
†Inland Water Heating Co.
Isbister Heating & Plumbing Co.
Johnston, S. E.
†Lambert, E. V. Plumbing Co.
Lerch, Fred, S. S 214 Howard
McCaffrey, R. C.
McCaffrey-Starkey Co.
Pemberton Bros.
Petyns, K. Plumbing Co.
†Sarginson Plumbing Co.
Smith, W. C.

Smyth, James
Weston, Roland
Withers, Chas. L., 608 Front av
TACOMA—Anderson, Robert
Bellingham, T. H., 920 Commerce
†Coffee, W. B. Plumbing Co., 1015 A
Dorfner, George
Dunseath, J. J.
Evans, William
Galligan, A. H.
Gehri, Adolph & Co., 1113 S Tacoma av
†Goddard, A. M., 949 South D
†Goddard, P. M., 757 South D
Grosser, F. C. & Co.
Gyer, S. W.
Haddow, Robert, 311 S 9th
Lawson, O. P., 2811 6th av
Olson, Ben., 1009 A
Reid, William
Weber, G. A.
VANCOUVER—Doherty & Healey
Larney & Kiggins
Morris, Frank
†Sparks, M. R.
WALLA WALLA—Lynch, R. E.
O'Rourke & Audrey
Spinling, W. S.
†Sutherland, G. H. Co.
WHATCOM—(See Bellingham)

WEST VIRGINIA.

BENWOOD—Truax, J. S.
BLUEFIELD—West Virginia Heating & P. Co.
Whitlow, M. G.
CHARLESTON—Coffey Plumbing Co.
Coles, Wm.
Gebhart Plumbing Co.
Lutz, C.
Meyers Bros.
West Charleston Plumbing Co.
West Virginia Heating & Plumbing Co.
CHARLESTOWN—Darlington, O. N.
CLARKSBURG—†Clarksburg Supply Co.
Eureka Plumbing Co.
Tate & McCune
Welch, F. C.
ELKINS—Barnard, H. M.
Conaway, A. R.
Dailey, J. H.
FAIRMONT—Combs, Earl
Fairmont Plumbing Co.
McLamon & Hall
Mountain City Plumbing Co.
Reed Plumbing Co.
GRAFTON—Barkins, Thomas
Clark, E. F.
Hostler, E. H.
Jackson, A. E.
McClain, M. E.
Pratt, W. A. & Co.
Tibbetts, Thomas & Son
Zeck, Alex.
HINTON—Lawrence, H.
HUNTINGTON—Bockway, F. W. & Stewart
Bragg, R. E.
†Hagan & Co.
†Huntington Plumbing & Supply Co.
Ohio Valley Plumbing Co.
Thompson, W. E.
Welis, S. M.
West Virginia Sanitary Plumbing Co.
Wilcoxon, C. F. & Co.
MANNINGTON—†O'Hare, John
MARTINSBURG—Fisher, J. W. R.
Keedy, C. Charles
Smith, A. R.
Yountz, C. A.
MORGANTOWN—Brand, Clyde
Joseph, L. W.
Kennedy, J. H.
Morgantown Plumbing Co.
Smith, J. L.
Stewart, D. M.
MOUNDSVILLE—Brown, H. L.
Laing, A. R. & Son
Schaub, John M. Co.
Steele, S. A. & Co.
PARKERSBURG—Burke Supply & Plumbing
Co.
Bush Plumbing Co.
East End Plumbing Co.
Franklin, W. G.
Mehn, T. G.
Parkersburg Supply & Plumbing Co.
†Turner, C. H. Co.
Young, J. Plumbing Co.
SALEM—Bailey, Israel
SISTERSVILLE—Beiford & Guyton
Smith, T. K.
WELLSBURG—Baker, John C.
Kennedy, W. S.
Roberts, Bruce

WHEELING—Blowers, F. H.
Brand, Charles L.
Cowl, Fred. E.
Graebe, Cecil A., 3326 Jacob
Greiner, Henry
Hare's, William Son
Hibbard, George & Son
Kiel Bros. Plumbing & Heating Co.
†Kyle, Robert W. Co.
†Little, T. A.
McDonough, John T.
McKown, H. L.
†Mansbarger & Lotz, 37 12th
Martin, Fred, Jr., 53 27th
Norteman, Henry C.
O'Brien, R. V.
O'Neil, D. J.
Rose, J. A.
Rose, Wm. P.
Rosenberg, S. N.
Schnelle, William F. C.
Seidler, L. F.
Sharp, C. W.
†Trimble & Lutz Co.
Vierheller, J. L.
Ziegler, F. E.

WISCONSIN.

ANTIGO—La Londe, Edw.
Morgan, Bardwell & Co.
APPLETON—Bauer & Fisher
Engel, John A.
†Nichols, Henry & Son
†Patterson, W. S. Co.
Ryan & Long
†Wenzel, William
ASHLAND—†Neuman, William F. & Co.
†Perrin, C. F.
Uptegrove, W. M.
BARABOO—Arnott, John
Schadde & Co.
BEAVER DAM—Nelman, J. J.
Shepard, B.
BELOIT—†Gregory, C. S.
Newton & Zimmerman
BERLIN—Wilson, Arthur
BURLINGTON—†Wagner Bros.
Zwiebel, Edw.
CHIPPEWA FALLS—McQuillan, P. L.
O'Connell, W. F.
Stengle, Henry
Swift, N. O.
COLUMBUS—Pine, E. L.
DELEVAN—Ronk & Searles
DE PEKE—†Gowey, A. L. & Co.
EAU CLAIRE—†Eau Claire Cornice & Heating Co.
Heckstadt & Heidman
Moe, Andrew
Triggs, H. T.
ELKHORN—McGill, W. E.
FOND DU LAC—†Ahern, David & Son
Gault, I. L.
McCoy, John P.
Murphy & Murphy
Serresse, W. A.
FORT ATKINSON—†Merriman Bros. & Co.
GRAND RAPIDS—Farley, J. E.
GREEN BAY—Brehme, Antone
Garot, E.
†Hansen, C. & Co.
Shine & Shug
Skogg, Nelson
Thomas, J. & Sons
HURLEY—†McConnell Hardware Co.
JANESVILLE—George & Clemons
†Green, F. E.
†McVicar Bros.
Snyder, Charles E.
KAUKAUNA—Haworth, Wm. H.
KENOSHA—Douglas, A. C.
†Goodman, C. H.
Hamlet, Warren F.
†Kaelber & Kraft
Reber, Hamer & Co.
Sullivan, E. J.
Swift, Frank X.
LA CROSSE—Cavanaugh & Smith
Eckert, C. G.
†Petter-Baker Niebuhr Co.
Hofweber, Peter
†Thill & Lapitz
†Trane, J. A. Plumbing Co., 125 S 5th
LAKE GENEVA—†Frederick, C. E.
Larson, C.
LANCASTER—Hickock, L. G.
Webb, Thomas
MADISON—Hank, Henry
Horstmeier, H. C.
Hyland, W. J.
†King & Walker Co.
†Kraft, George
Meltzer, William J.
Metz, Anton

Ottow, J. G.
Owens, William
Schwoegler & Bliss
Sutter, Joseph
MANITOWOC—Kallis, Harry
†Knickerbein & Dummer
†Larsen, Hilbert L. & Bros.
†Manitowoc Equipment Co.
Merz, Emil
Phelan, John H.
MARINETTE—†Norton, C. H.
Stewart, S. J.
MARSHFIELD—Anderson, B. J. & Co.
Metelka, John J.
Sena, Aug. & Co.
MENASHA—†Auer, William
MENOMONIE—Lucas, Carroll
†Schoenoff, A. F.
Trautman & Crane
Weinfeld & Hengel
MERRILL—†B. & B. Heating Co.
Merrill Plumbing & Heating Co.
MILWAUKEE—†American Plumbing & Heating Co., 134 2d
Baker, J. C., 601 Grand av
Barsch, A. G. & Co., 706 12th
Beck, W., 928 Teutonia av
Boelter, William F., 326 Ogden av
Boettcher, William C., 1011 Center
Britt Bros., 179 Wisconsin
Chase, Enoch, 1239 National av
Dahl, A. S., 1613 State
Dale, Bert, 867 3d
Dearsley Bros., 422 Milwaukee
Diel, Emanuel, 1128 Cherry
Dillmann, Edward, 33 Oneida
Dittmer, Oscar H., 1324 Fond du Lac av
Doe & Strehlow, 1143 Hopkins av
Dorrler & Cook, 458 12th
Dougherty, W. E., 440 National
Dusold, Walter W., 666 3d
Egan, William H., 176 Biddle
Engel, Theo., 21 Juneau av
Erbach, Wm., 624 Garfield av
Esser, William, 3616 Lisbon av
Fischer, Joseph J., 2521 North av
Foran, J. A., 285 Brady
†Fox, Charles J., 616 Grand av
Friend, Lewis R., 599 Jackson
Fuchs, Philip A., 197 11th
†Gilbreath, Thos., 268 Grove
Goll, Frank A., 1227 State
†Grassler & Gezelshap, 214 Grand av
Griebl, Frank L., 907 Kinnikinnic av
Grogan, Thomas P., 407 E North av
Habernehl, Eugene, 702 3d
Hahn, John L., 2905 North av
†Halsey, Wm. H., 432 Jefferson
Hanley, S. V., 407 B'way
Harper, Chas. W., 148 Reed
Huebner, Wm. Jr., 829 Winnebago
Jensch, Peter, 2223 Lisbon av
Julien, Fred. J., 530 Market
Julien, J. B. & Co., 964 Kinnikinnic av
Junek, Joseph, 2720 North av
Kaiser & Sands, 572 Mitchell
Kenney, Patrick F., 147 6th
Klatt, Chas., 749 National av
Klumb & Droese, 2010 Fond du Lac av
Kohls, A. & Co., 1718 Fond du Lac av
Kraayvanger, Werner, 525 2d av
Kuehn, John, 482 Mitchell
Kuenzll, Fred A., 442 Mitchell
Kuetemeyer, Fred. C., 57 Oneida
La Valle, J. W., 172 7th
†Lehan & McNally, 197 E Water
Lietzke, Herman R., 511 4th av
Lindner & Brenner, 2718 Villet
Lippert, Hugo, 1630 Chestnut
Lippert & Vogt, 1918 Chambers
Loehndorf, C. E., 2301 Villet
Luedke, Herman A., 409 11th av
McGrath, M. J., 145 Michigan
Maag, A. J. & Co., 133 Mason
Martin, Alvin, 582 Mitchell
Massino, J. & Son, 651 3d
Mastenbrook, G., 1116 Walnut
May, Delbert H., 612 Grand av
Mehlhorn, Paul A., 812 Wells
Melo, A. J., 918 National av
Meyer, L. F., 633 E Water
Momblow & Co., 351 Virginia
Murphy, Peter F., 604 Grand av
Murphy, Philip H. Co., 320 Grove
Naps & Mann, 984 Booth
Nicholson, Wm. S., 207 Lyon
O'Leary, Michael D., 2902 Clybourn
Pfeifer & Mergenthaler, 416 State
Plum, L. H., 459 Milwaukee
Polacheck, David, 2201 Wells
†Prinps, Fernando W., 131 Oneida
Reilly Bernard O., 194 Biddle
Rhels, A. A., 287 6th
Ringelsen, Joseph, Jr., 369 3d
Robertson, James E. Co., 2717 Grand av

Roth, Herman & Co., 871 National av
Schler, Rudolph W., 2626 Walnut
Schiller, Nicholas V., 1416 Green Bay av
Schroeder & Snedlow, 529 3d
Schroeter, Chas. R., 112 Center
Schuh, Jacob, 472 11th
Schumann & Luebke, 1017 3d
Schwantes Plumbing Co., 154 2d
Schwind, A. R., 2430 Chestnut
Selp, Edw'd P., 1921 Villet
Smith, F. J. & Co., 858 Kinnikinnic av
Soergel, Leonard, 571 National av
Spaar Plumbing Co., 2026 Villet
Standard Plumbing Co. (Julius Wechselberg, Pres.), 2457 Lisbon av
Stemper Bros., 314 National av
Stern, D. Plumbing Co., 410½ Chestnut
Stollberg, L. R. & Co., 451 3d
Tank, Bernhard, 768 Teutonia av
Theis, F. H., 604 1st av
Theis, Henry W., 708 3d
Thill Bros., 122 Oneida
Toussaint, Isaac, 1705 Walnut
Trebs & Derezynski, 843 9th av
Van Roo, Martin, 2910 Lisbon av
Voelz, C. & A., 764 3d
Wallace, Arthur F., 578 9th av
Wegner & Melster, 405 3d
Welsh, Joseph, 420 Mitchell
Wenzel & Henoch, 502 27th
Western Plumbing & Heating Co., 307 Grove
Wiesner, John A., 426 Lincoln av
Williams, Henry C., 241 B'way
Williams, John R., 1261 Kinnikinnic av
Winnemann & Eur, 2314 Fond du Lac av
Wittig, Joseph, 536½ E Water
Wittig Plumbing Co., 810 Central av
Zavadil, John, 1112 Center
Zimmerman, Otto P., 819 Winnebago
MINERAL POINT—†Penhallegon, John J.
MONROE—Burke, Fred.
Churchill, E. N.
NEENAH—Haertel, F. L.
Nelson, C. W.
NEW LONDON—†Patterson, W. S. Co.
OCONOMOWOC—Eiden, Joseph
Jones, M. A.
†Smith & Meadows
OCONTO—Smith Bros.
OSHKOSH—Decker, Chas. M.
†Dugan, Philip, 269 Main
Frank, E. H.
Fullam & Morris
McAllister, J. W. & Co.
Mueller Bros.
†Toner Plumbing & Heating Co.
PLATTEVILLE—Marshall, J. F.
Meyer, Chas. H.
Smiley, H. J.
PLYMOUTH—Wolf, Henry F.
PORTAGE—Lewis, H. G.
Wells, J. E. & Co.
PORT WASHINGTON—Ackerman Bros.
Sauer, Lothor, Jr.
PRAIRIE DU CHIEN—Kuckenbecker, C. W.
RACINE—†Beetcher, O. H. Co.
Brunk Bros.
Citizens' Plumbing Co.
†Davis, O. C.
Fair, Fred
Ferguson, D. D.
Gleason & Hughes Plumbing Co.
†Morris, Harry & Co.
†Raymond, Hyland
†Smollen & Schoenlaben
West Side Plumbing Co.
REEDSBURG—Zech, W. H.
RHINELANDER—†Innis, Thomas (Est. of)
Lowell & Bross
RICE LAKE—†Pettit, L. A. & Co.
RIPON—Hawkes & Hennig
Pecklow, J. F.
Ripon Light & Water Co.
SHEBOYGAN—Honold Bros.
Huebner Co.
Junk, Otto
Sonntag, Louis
Vonwinkel, August & Son
SOUTH MILWAUKEE—Mcgow & Wallace
Robb, J. V.
SPARTA—Palen, N. F.
STEVENS POINT—†Ellenwood, B. S.
Gray, J. Rollin
†Stevens Point Plumbing & Heating Co.
†Sullivan, J. B. & Co.
STOUGHTON—Havey, W. O.
STURGEON BAY—Halstead-Maples Hardware Co., 1813
Winter
SUPERIOR—†American Heating Co., 1813
Winter
†Burnett, David
Hudson, R. R. & Co.
†Neil & Co., 1716 Winter
Ryan & Carlson

Sanitary Plumbing Co.
 †Stack Bros.
 †Wray, J. P. & Co., 1728 N 12th
TOMAH—Barrows & Son
 Uebele, George S.
TWO RIVERS—Dawson, Fred R.
WASHBURN—Fluck, George
 †Ungrodt, B.
WATERTOWN—†Bielefeld, Otto & Co.
 Kehr Bros.
 †Kusel, D. & F. Co.
 Russell, G. J.
 Schiebel, William
WAUKESHA—Cahill, E. W.
 Haynes, A. G.
 Klock, J. J.
 Moran, T. C.
WAUPACA—Burgess, F. D.
WAUPUN—Grebe, F. E.
WAUSAU—†Danielson Plumbing & Heating Co.
 Halder, A. H. J.
 Hett Bros.
 Nett, Benj. J.
 Wheeler, A. B. & Son
WAUWATOSA—Smith, A. I. Co.
WHITE WATER—Newel & Warner
 White Water Water Works Co.
WEST SUPERIOR—(See Superior)

WYOMING.

CHEYENNE—†Arp & Hammond Hardware Co.
 †Boyle Plumbing & Heating Co.
 Cook, P. S.
 Morrison, J.
EVANSTON—†Fife Bros.
 La Riviere, Joseph
LARAMIE—Brueckner, Frederick
 Cordner, J. W.
ROCK SPRINGS—Fitzgerald, F. B.
 Forndran, J. E.

Plumbers, Gas and Steam Fitters of Canada

ALBERTA.

CALGARY—†Calgary Plumbing & Heating Co.
 Hale Bros.
 Hardman, Charles H.
 Head, W.
 Martin & Tremaine
 Pattison & Pfeiffer
 Rowe, C. O.
 Young & Burnett
EDMONTON—Kemp, E. A.
 Lee, A. & Co.
 Lockerbie, E. J. & Co.
LETHBRIDGE—Green, R.
 Hicks & Wakely
RED DEER—Edington, Guy

BRITISH COLUMBIA.

CRANBROOK—Patmore Bros.
FERNIE—Hamilton, A.
 Stork, Alfred
GRAND FORKS—Chappele, George C.
 Rowlands, John
GREENWOOD—Bishop, E. W.
 McLean, J. A.
KAMLOOPS—Benzie, J.
 Shotton, H.
NANAIMO—Bailey, J. H.
 Morton, W. H.
 Randle Bros.
NELSON—Strachen & Hebden
NEW WESTMINSTER—Hardman & Bryson
 Vanstone, W. E.
PHOENIX—Birney, L. Y.
REVELSTOCK—Lawrence Hardware Co.
ROSSLAND—Martin Bros.
 Smith & Hunden
VANCOUVER—Barr & Anderson
 Barter, A.
 Brown, W. A.
 Cleator, W. H.
 Gay, William
 Gosse, R. E. & Son
 Hardman & Bryson
 Hughes, James
 Kemp Bros.
 Kendrick, J.
 Lee & Morgan
 Leek & Co.
 Marshall, Thomas
 McDonald & Moore
 McIntyre, S. J.
 Morgan, Chesley
 Morrison Bros.
 Mortimore, J. G.

Nott, R. J.-Mallett Co.
 Peach, J. C. & Sons
 Peters, Charles
 Purser, William
 Rose, M. S.
 Symons & Hoskins
 Vanstone Heating & Plumbing Co.
 Wallace, Frederick
 Weeks & Co. (Ltd.)
VERNON—Ross, J. E.
VICTORIA—Bownass, William
 Braden, J. T.
 Clarke & Pearson
 Colbert, John
 Cookson, Charles M.
 Coughlan, Jno. & Co.
 Gelger, E. F.
 Kinloch, James W.
 Lawrie, E. T.
 Sheret, Andrew
 Victoria Plumbing Co.
 Warner, J. H. & Co.
 Watson & McGregor
 West, James D.
 Wilson, A. W.

MANITOBA.

BRANDON—†Brandon Heating & Plumbing Works
 Midgley & Co.
 Morden, M. W. & Co.
PORTAGE LA PRAIRIE—Johnston & McClymont
WINNIPEG—Adams & Main
 Ball, Thomas
 Bearsto, L.
 Beattie, R. L.
 Beauchemin, N.
 Boal, Frank
 Campbell, Brick & Co.
 Carroll, J. W.
 Cotter Bros.
 Duff & Flett
 England & Co.
 Farrell & Reid
 Fisher, Mitchell & Co.
 Gate, C. E. & Son
 Gime, R. & J. R.
 Green & Litster
 Hall & Miller
 Hammond & Rodway
 Hearne, E.
 Hirschman, J. B.
 Irvine, R. & J. R.
 Kernaghan, A. T.
 Lear, R. H.
 McKenzie, D. & Co.
 †Northern Plumbing & Heating Co.
 †Northwest Heating & Plumbing Co.
 Plaxton, C. & W.
 Plaxton, Jno. (Ltd.)
 Powers, James
 Randall & Bell
 Robb, Charles E.
 Scholey Co.
 Shea & Archibald
 Sova & Barbour
 Standard Plumbing Co.
 Stephenson & Toole
 Stewart, Thomas
 Thomson & Homer
 Vine Bros.
 Wallace & Jones
 Wells, J. L. & Co.
 Young, C. C. & Co.

NEW BRUNSWICK.

FREDERICKTON—Hurley, Edward
 Limerick, Arthur & Son
 Shea, Dennis J.
 Wandless, R. W.
MONCTON—Colpitts, H. J.
 Estano, L. H.
 Rowe, C. O.
 Watson, William
ST. ANDREWS—Douglas, Goodwill
ST. JOHN—Blake, G. & E., 96 Germain
 Buckley, J. A.
 Campbell, P. & Co., 73 Prince William
 Coughlan, J. S., 122 Charlotte
 Doody, James H., 86 Prince William
 Doyle, Daniel, 177 Charlotte
 Dunbrack, Henry, 70 Princess
 Emerson & Fisher, 75 Prince William
 Fitzgerald, J. E.
 Hamilton, John, 250 Union
 Herrington, E. & W., 546 Main
 Kane, Thomas P., 5 Mill
 Kiley, William, 612 Main
 Lee, J. W., 90 Charlotte
 McManus, F. E., 5 Coburg
 Noble, J. H., 57 King sq
 O'Brien, John
 Wilson, J. E., 17 Sydney

ST. STEPHEN—Donovan, W. H.
 O'Brien, Daniel
SACKVILLE—Carter, W. H.
SUSSEX—Dryden, H. H.
WOODSTOCK—Churchill, I. O.
 Fewer Bros.
 Pickle & Davidson

NEW FOUNDLAND.

ST. JOHNS—Gear & Co.
 Moore & Co.
 Nurse & Co.
 Phillips, James T.
 Pittman & Shaw
 Ryan, W. J.
 Stevenson & Walsh
 Wills, William

NOVA SCOTIA.

AMHERST—Hagen, H. G. & Co.
 Loughrey, William A.
 White, James
ANNAPOLIS—Harris, R. T.
DARTMOUTH—†Ritchie, John & Co.
 Young, A. C.
GLACE BAY—Keith Bros.
 †Thompson, A. C. Co.
HALIFAX—Craig, A. E., 106 Maynard
 Craig, W. S.
 Crump & Perrier
 Day & Kinsman
 Donovan & Brennan
 Kendrick, Geo. G.
 Longard Bros.
 Macdonald & Co. (Ltd.), 1 & 162 Barrington
 Magnus & Lownds, 165 Lower Mater
 Myers, John E.
 Naylor, John B. & Son, 80 Barrington
 †White, John & Co.
 Wooten, G. A. & Co.
NEW GLASGOW—Evans & Chisholm
 Stewart, Joseph
NORTH SYDNEY—Buchanan, W. H.
 Thompson & Matheson
PICTOU—Carson, Adam
 McKenzie, W. D.
 Wetmore, W. C. & Co.
SYDNEY—Bail, Keith
 Bayer & Co.
 †Hagan, H. G. & Co.
TRURO—Dexter, F. & Co.
 Dow, Donald C.
 Graut H. Seymour
WESTVILLE—Hayman, Alex.
WINDSOR—Murphy, F. F.
 Shaw, W. W.
YARMOUTH—Filluel, Charles E.
 Morton, George J.
 Wallace, J. A.
 Wetmore, William R.

ONTARIO.

ALMONTE—McArthur, William
ARNPRIOR—Pugh, A. E.
BARRIE—Ling, George H.
 Neelands, J. H.
BELLEVILLE—Chown, W. W. Co.
 Lewis, John & Co.
BERLIN—†Fennell, John & Son
 Hainesworth, John
 Knoll, William & Co.
 †Sachs Plumbing & Heating Co.
BRANTFORD—Cowan, T. A.
 Minnis, T. J. & Co.
 Palmer & Ireland
 Taylor, Alfred
 Taylor, C. & Co.
 Tipper, William & Sons
BROCKVILLE—Brown & Semple
 Coulter, Thomas
 Ross, George & Co.
 Smart, R. H.
CHATHAM—Bowers, C. R. & Co.
 Coyle, R. G.
 McKay, John
 Watts, James & Sons
COLLINGWOOD—Carslake & Lockerbie
 Duncan, A. W.
 Henderson, George
CORNWALL—Hunter, John G.
FORT WILLIAM—Cameron, Alex.
 Cullaton & Fish
 Higgenbotham, Anderson & Sine
 Langley, J. W.
 McCallum, S.
 †Piper, William S.
GALT—Norris & Lockhart
 Scott & Bennett
GANANOQUE—Jamison, A. H.
 Latham, Gordon

GODERICH—Harper, C. J.
Lee, Charles J.

GUELPH—Mahoney Bros.
Smith, Fred.
Stevenson & Malcolm Co.
Welsby, E. B.

HAMILTON—Bluestein, David
Cadwell & Boyle
Clark, Adam
Cummings, James F.
Dickinson & Allen
Drake-Avery Co.
Drewitt, W. H.
Ellcott, John
Fitzsimons Bros.
Harding, Henry, 155 James, N
Kennedy, James S.
Mellon, Stephen, 125 James, E
Miles, G. J.
Morley, Henry, 174 John
Morley, H. W.
Pyle & Archibald
Rodgers, A. & Co., 138 James
Smith, W. D., 158 King
Stevenson, George, 15 Walnut
Stewart, James H.
Thompkins, A. J.
Wallace, J. & Son
Walsh, Isaac
Walsh, W. J., 115 King

INGERSOLL—Buchanan, J. & Son
Sinclair, James
Tune, Herbert

KINGSTON—Elliott Bros., 77 Princess
Hall, David
Jamieson, A. & J.
Lemmon & Sons
McKelvey & Birch, 71 Brock
Nugent & Graham
Simmons Bros., 211 Princess
Taylor & Hamilton

LONDON—Green, W. J., 639½ Dundas
Greenaway, Jas., 224 Dundas
Haslett, R. J., 322 Dundas
Howell, W. F., 68 York
Hunt, Fred C., 621 Richmond
Leigh, J. B.
Milne, Alex., 83 Carling
Needham, C. F., 352 Ridout
Park, J. C., 663 Dundas
Partridge, T. L., 191 Dundas
Russell, E. H. & Co., 421 Talbot
Skelly, Wm., 243 Dundas
Smith Bros. & Co., 265 Dundas
Smith Plumbing Co.
Young & Co.

NAPANEE—Waller, T. H.

NIAGARA FALLS—Eaton, C.

NORTH BAY—Farrell, J. E. & Co.

ORILLA—La Plant, Fred.

OSHAWA—†Oshawa Steam & Gas Fitting Co.

OTTAWA—Barbean, G. C.
Chandler & Co., 367 Bank
Enright, Jno. C., 194 Bank
Graves Bros., 92 Sparks
Harrington, D. J.
Johnson, F. G. & Co., 535 Sussex
Jullen, Gll, 95 George
Knox Bros.
Le Duc & Ganthier
Lessard, Alexis
McKinley & Northwood, 56 Rideau
McLennan, J. R., 240 Bank
Martell & Langellier
Normand, H.
Thompson & Llvock

OWEN SOUND—Christie Bros. Co.
Emslie & McKenzie
Ross, A. J.

PEMBROKE—†Dunlop & Co.
Perry, James
Stewart, James

PETERSBORO—Adamson & Doblin
Duranceau, O. A. J.
Hall, Adam
Macpherson, F. R. J.
Spry, Lewis
Sutherland, R. J. G.

PETROLEA—Kemp, Charles
Pollard, E. & S.
Sleewright, Wm.

PICTON—Carter Bros.
Johnston & McKenzie

RENFREW—Conley & Derry
Hastings, Wm.

ST. CATHERINES—Bald, H. A. & Co.
Chatfield & Co.
Gourlay, S. P.
Hoople, Chas. H.
O'Gorman & Hemphill
Peart, John
Riddell, Andrew & Sons

ST. THOMAS—Bull, Charles T.
Cook, Foster
Flaherty, A. H.
Hamilton & Scott
Potticary & Dixon
Williams, James

SARNIA—Barrie, William J.
Davis, William J.
Goodwin, Frank
Joss, Alex.
Koss, Robt. & Co.

SAULT STE MARIE—City Plumbing Co.
Crawford, Alexander
Culliton, J. J. & Co.
Gallagher & Dunseath
Parker, J. G.
Sannders, John
Woolrich, George

SIMCOE—Pauline & Rutherford

SMITHS FALLS—†Clark & Lewis
Williscraft, C.

STRATFORD—Myers, J. & Co.
Peter & Sylvester

STRATHROY—Stoner, Alfred

STURGEON FALLS—Cartier & Cote
Caven & Mongeon
McArthur, Neil

TILSONBURG—Shearing & Flanders

TORONTO—Adams, W. G. D., 163 Lansdowne av
Aggett, J. T., 303 Yonge
Aikens, E. W.
Allison, K. J.
Armstrong, Edward
Armstrong, Fred
Ashdown, George T.
Barrington, Thomas G., 812 College
Baxter Plumbing & Heating Co.
Beavis, Charles H., 292 Gerrard, e.
Bennett & Wright Co. (Ltd.), 72 Queen, e.
Benson, Walter H., 881 Queen, w.
Bird & Co.
Blumbergh, Louis, 546 Yonge
Blumbergh, Nathan, 386 College
Boddington, W. E., 6 Elm
Bolam, John R.
Brown, James R.
Clark, Alex.
Clark, David, 95½ Arthur
Cooper, G. H.
Cottrell, A. E.
Dunkop, W. J.
Earl, Arthur A.
Ellacott, James
Elliott, James
Erwood, John W.
Fiddes & Hogarth
Fiddes, J. & A.
Fisher, John
Fullerton Bros., 228 Wellesley
Gates, Frederick, 807 Queen, e.
Gibbs, John, 724 Queen, e.
Graham, John J.
Gray, John E.
Guest & Co.
Harrison, Joseph
Harrison & Robertson, 34 Olive av
Hayden, J. M., 354 Bathurst
Head, Thomas S., 316 Parliament
Henderson, R. G., 952 Queen, e.
Hobbs, Samuel
Hurst, Jas.
Hutcheson, Thomas H., 203 Clinton
Inwood, Walter B. A., 499 Parliament
James, E. A. E., 431 King, e.
Jessimane, P., 218 Lippincott
Keith & Fitzsimons Co., Ltd., 111 King, w.
Knott, John E., 195 Wilton av
Lamont, A.
Landreville, John T.
Large, Charles
Larter, Edward
Lasher, Blake H.
Lawrence, John
Leaman, R. G.
Legrow, Lewis
Locke, Robert, 671 Yonge
McCauley, A. E.
McGuire, W. J. & Co., 86 King av
McKay, Robert E.
McMullen Bros.
Macpherson, Angus
Malcolm & Co.
Mashinter, W. & Co.
Mason, George P.
Mason, W. J.
Matthews, John
Maxwell & Johnson
Menzies & Hayes
Miller, Albert J.
Mimms, W. G.
Morrison, A. J. & Co.
Myers, Edward
Needham, E. T.

Nixon, Frank J., 340 Bathurst
O'Donnell, Charles & Co.
Passmore, A.
Pell & Co., 271 Queen, e.
Pickard, C. E., 603 Yonge
Pincombe, J. L., 162 Brunswick av
Power Bros.
Purdy, Mansell & Co., 45 Adelaide, w.
Raine, W. H. & J.
Read & Co.
Redcliffe & Son, 398 King, e.
Reeves, John B.
Richards Bros., 504 Yonge
Ritchie, John Plumbing & Heating Co., 64 Adelaide
Robinson, Robert T.
Ross, John, 359 Church
Ross, Robert, 1347 Queen, w.
Schulks, William S.
Seager, J. R.
Sherlock, John & Co.
Sherlock, R.
Sim, J. & Co.
Slean, Thomas W.
Stinson, A. & Co.
Street, W. J.
Sullivan, Gus.
Taylor, Francis
Thompson & McConnell
Tomney, C. J.
Torpey & Allison
Wallis, Frank J., 479 Yonge
Wallis, George, 345 College
Warwick, James H., 238 Wellesley
Willett, Bernight
Willis, W. R.
Wray & Morgan
Wright, John
Wright, Randolph
Wright, Samuel W. S.

TORONTO JUNCTION—Butler, E.
Lowndes, William
Paterson, Robert
Ryding & Co.

WALKERTON—Havill, H. A.

WATERLOO—†Conrad Bros.
Liphardt Bros.

WINDSOR—Blackburn, Thomas
Bulmer, William
Hannon, John
L'Heureux Bros.
Paddon, Robert
Pennington & Brian
Purser, James E.
Squires, M. B.
Stewart, J. C.

WOODSTOCK—Coppins, E. S.
McDonald, Alex.
Sheridan, J. J.
Whitney Bros.

PRINCE EDWARD ISLAND.

CHARLOTTETOWN—Hermans, Henry
Rogers Hardware Co.
Stanley, Shaw & Peardon

QUEBEC.

BEAUPORT—Gagnon, Joseph

BUCKINGHAM—Dore, A.

CHICOUTIMI—Gandreault, J. A.
Gnay, Ovide

COATICOOK—Kennedy, Charles A.
Webster, W. C. & Son

DANVILLE—Thompson, Charles E.
Wilson, William H.

ETCHEMIN—Marier, J. A.

FARNHAM—Dupaul, Samuel
Dupont & Schwartz

GRANBY—Sanitary Plumbing Mfg. Co.
Topp, William

HULL—Archambault, A.
Laroche, Albert
Vezina, Louis

JOLIETTE—Bonin, Alex.
Chevalier, Emile
Lanoix, Rodrigne
Majeau, Alfred

LACHINE—Binette, A. & Co.
Conrsol, D.
Desforges, J. A.
Lizotte, A.

LAKE MEGANTIC—Roy, H. & Co.

LAPRAIRIE—Bonueterre, Edmond
Duranceau, A.

L'ASSOMPTION—Lorrain, E.
Malouin, Samuel

LAURENTIDES—Locas, Roch.

LEVIS—Gingras & Nadeau
Goesselin, Nap.
Petit, J.

LONGUEUIL—Crevier, L. A.
Lebault, Joseph
Marcotte, Joseph

LOUISEVILLE—Asseiln, L.
 Trepanier, F.
 Vallette, Onesime
 MONTMAGNY—Dube, Maxime
 MONTREAL—Armstrong & Petit, 645 Wellington
 Atchison, James, 33 Bleury
 Baillie, Henry, 168 Peel
 Ballantyne, Jas., 159 St. Antoine
 Barbeau, Frs.
 Barber, A. C.
 Belanger, Narcisse
 Bellisic, Telephone
 Blodeau, F.
 Blackburn, E. A.
 Blouin, Desforges & Latourelle, 520 1/2 Craig
 Bonhomme, Francois, 2622 Notre Dame
 Bourbonniere, Ludger, 1602 St. Catherine
 Bourcier, Jos. Co., 348 Hibernia
 Breton, Narcisse
 Brisson, Philippe
 Brochu, J. O.
 Brosseau, H. A., 106 St. Louis
 Brunet, Augusto, 379 Laval av
 Bruet, Francis, 1588 Notre Dame
 Bruet, J. & C. Co., 147 St. Lawrence
 Burns, John & Co., 684 Craig
 Cadieux & Briard, 1049 St. Lawrence
 Cadieux, Napoleon
 Cardinal, T. A.
 Champagne & Frere
 Charest, D. A.
 Charette & Frere, 1350 Ontario
 Chatigny, J. C.
 Christy, T., 135 Bleury
 Conroy Bros., 228 Centre
 Cusson, Zotique, 606 Hippolyte
 Dalcourt, Ludger, 1276 St. Catharine
 Daoust, Oscar
 Date, John, 654 Craig
 Davignon, J. & P.
 Daze, Hector
 Demers, Pierre & Fils, 386 St. Lawrence
 Denman & Bethune, 279 Blenry
 Deschatelets & Fils
 Devine, James, 161 Wellington
 Douville, Elie
 Dubord, P. A.
 Drapeau & Champagne, 1546 St. Catherine
 Dufort, Eph., 649 Notre Dame
 Dugas, Dosithe, 1377 Ontario
 Duquette, D. & Co., 1233 St. Catherine
 East, R. & H.
 Egan, H. A.
 Forest, Thomas & Co., 1078 St. Lawrence
 Froievaux, F. F., 314 St. Lawrence
 Galarneau, A.
 Galipeau, John & Co.
 Garth Co., 536 Craig
 Germain, M. & Co.
 Gilmour Bros., 183 St. Antoine
 Gilmour, Wm. B.
 Giroux, Jos.
 Gladu, Louis
 Gordon, J. A., 271 St. Antoine
 Gordon & Egan, 120 Mansfield
 Graham, Wm. J.
 Green, Wm.
 Grenier Bros., 1767 St. Catherine
 Halsey, Thomas W., 591 Wellington
 Hickey & Aubut
 Houle, Alfred, 489 St. Lawrence
 Hughes, J. W. & Son, 2 St. Antoine
 Jette Ludger, 837 St. James
 Jubin, Cyrille, 128 Duke
 Kane & Monpetit, 2526 Notre Dame
 Krasel, P. R., 2529 St. Catherine
 Lachapell, Jos.
 Lamarche, Joseph, 810 St. Lawrence
 Lapointe, Victor, 1151 Ontario
 Laurier, Joseph, 1395 Ontario
 Laurin, T.
 Leclerc, P., Jr., 1454 Notre Dame
 Lecompte, G. & Co., 926 Av de l'Hotel de
 Legris, Jos.
 Lemay, Philippe, 2228 Notre Dame
 Lesperance, E., 1946 St. Catherine
 Lessard & Harris, 421 1/2 Craig
 McGuire, W. J. & Co., 1996 Notre Dame
 Mackay, Alex. & Co., 62 Victoria sq
 Mackenzie, Hector M.
 Markum, John, 35 St. Antoine
 Marier & Davil, 346 Craig
 Massicotte, J. N. & Co., 499 Mt. Royal av,
 Ville St. Louis
 †Mitchell, Robert Co., Dominion & Albert,
 Moll, Thos., 2112 Notre Dame St. C.
 Morin, Ernest J., 96 1-2 St. Elizabeth
 Munday, H.
 Myles & O'Brien
 Navet & Lauzon
 O'Connell, Thos., 137 McCord
 Ogilvie Bros., 249 Bleury
 Oulmet, David, 514 Craig

Oulmet, Omer, 4 St. Denis
 Paddon, J. E. H., 2698 St. Catharine
 Paquette, Jean J.
 Pelletier, Wm.
 Perrault, Jos., 123 Desery
 Quintal, Gaspard, 100 Craig
 Quipp, Jno. W. & Co., 2686 St. Catharine
 Rea & Skead, 1074 St. James
 Rosser, Griffith, 2139 St. Catharine
 Rousseau, E., 729 Notre Dame
 Roussin, Calixte, 1719 St. Catharine
 Ryan, Walter & Co., 2513 St. Catharine
 Sadler, J. A., 226 Bleury
 St. Aubin, Cleophas
 St. Aubin, Zenon, 296 St. Denis
 Sevigny, R. N.
 Sicard, Phileas X., 1064 St. Catherine
 State, A. T. & Co.
 Terreault, O.
 Thibault, C. E., 231 Amherst
 Thibault, Henry, 1354 Ontario
 Thibault, J., 565 St. Paul
 Turcot, Nap., 1321 St. Lawrence
 Turcotte, Joseph, 351 St. Lawrence
 Walsh, M. & Co., 562 Craig
 Watson, John & Co., 4135 St. Catherine W.
 PORTNEUF—Fournier, Alf.
 QUEBEC—Brousseau & Frere
 Collin, J. E.
 Cote, J. B.
 Chretien, Joseph
 Dobbin, P., 101 St. John
 Durand, Napoleon
 Ford, William
 Forrest, A., 36 Garden
 Giguere, P. P. & Co.
 Houde, Adj.
 Huot, Adolphe
 Jobin & Paquet
 Laberge, Joseph
 Lachance, Ph.
 Lagace, Francois
 Lapointe, C.
 Leveille, Francois X.
 Noel, P.
 Paradis, Pierre
 Picard, O. & Fils
 Plante, O. & Co.
 Rousseau, D., 795 St. Valier
 Simard, Gaudias
 Walker, John
 RICHMOND—Fisk, William A.
 RIMOUSKI—Portugais, A. A.
 Theriault, Pierre
 STE. ANNE DE BEAUPRE—Lessard, Joseph
 ST. HYACINTHE—Birtz, Ernest
 Blondin, Adrien & Co., 140 Cascades
 Brodeur, C. E., 44 Cascades
 ST. JEROME—Beisise, Narcisse, St. George
 Desjardins, Joseph N.
 Therien, Charles
 ST. JOHNS—Monblean, E.
 Mayrand, Joseph F.
 Payette, Alex. & Co.
 SHAWINIGAN FALLS—La Chance, P. & Co.
 SHERBROOKE—Beauregard, G.
 Boucher, E. & Fils
 Delorme, G. E.
 Gardner, A. G.
 Sampson, Richard
 Wilson, A. R.
 SOREL—Bernier, Godias
 Cote, William & Co.
 Dallaire, Coron & Co.
 La Compagnie de Plumberie Moderne
 TERRE BONNE—Brossard, Henri, St. Francis
 Gravel, William
 THREE RIVERS—Landry, E. F. & Co.
 Luckertoff Bros.
 Morrisette, George
 VALLEYFIELD—Boileau, A.
 Parent, Louis & Co.

SASKATCHEWAN.

REGINA—Cook & Potts
 Grant, D. M.
 Summers & Kelly Co.

Plumbers' Brackets

(See Bracket Mfrs.)

Plumbers' Brass Goods Mfrs.

(For jobbers of this trade see Plumbers' Supplies, Jobbers.)

Akrens & Ott Mfg. Co., Louisville, Ky.
 Albany Brass & Iron Co., Albany, N. Y.
 American Brass Works, 426 Plum, Cincinnati.
 American Hardware Mfg. Co., Ottawa, Ill.
 American Pln Co., Waterbury, Conn.

Asbell, S. J. Co., Paterson, N. J.
 Badger Brass Mfg. Co., Kenosha, Wis.
 Bailey-Farrell Mfg. Co., 3d & Ross, Pittsburg,
 Barclay, Peter & Co., Boston, Mass. Pa.
 Barrett, Jas. Mfg. Co., 48 Pearl, Boston, Mass.
 Bay State Brass Co., Haydenville, Mass.
 Bay State Metal Works, Cambridge, Mass.
 Beifield, H. & Co., 435 N Broad, Phila., Pa.
 Benjamin, O. P. Mfg. Co., Indianapolis, Ind.
 Blessing, C. A., 516 Montgomery av, Phila., Pa.
 Boston Brass Co., 36 Oliver, Boston, Mass.
 Boston Steam Specialty Co., 168 Congress,
 Boston, Mass.
 Buckeye Iron & Brass Works, Dayton, O.
 Brookside Brass Foundry & Mfg. Co., 21 Seltzer
 av, Cleveland, O.
 Buckley-Hart Mfg. Co., 527 Franklin, Detroit,
 Mich.
 Campbell, J. B. Brass Works, Erie, Pa.
 Capitol Brass Works, 284 Rivard, Detroit,
 Mich.
 Central Brass Mfg. Co., 6203 Cedar av, Clevel-
 land, O.
 Central Brass Works, 322 W Pearl, Cincin-
 nati, O.
 Chambers & Ainslee, 2 Commerce, Newark,
 N. J.
 Champion-Farley Brass Co., Kansas City, Mo.
 Clark Metallic Mfg. Co., 123 Mill, Rochester,
 N. Y.
 Clark, Robt., 98 Schermerhorn, Brooklyn, N. Y.
 Cleveland Bronze & Brass Works, 1138 Ham-
 ilton, Cleveland, O.
 Cleveland Faucet Co., 25 Frankfort, Cleveland,
 O.
 Climax Specialty Co., Seneca Falls, N. Y.
 Clow, Jas. B. & Son, 342 Franklin, Chicago,
 Ill.
 Clum, P. A. & Co., 18 Fay, Rochester, N. Y.
 Columbus Brass Co. (Acorn), 96 N 6th, Colum-
 bus, O.
 Colwell Lead Co. (Plumbers' "Joy"), 63 Cent-
 re, N. Y.
 Connolly Specialty Works, 1071 Atlantic av,
 Brooklyn, N. Y.
 Cooper, W. S. Brass Works, 437 N 12th, Phil-
 adelphia, Pa.
 Cox Brass Mfg. Co. (Ltd.), Albany, N. Y.
 Coyne & Delaney, 303 Rodney, Brooklyn, N. Y.
 Crampton-Farley Brass Co., 221 Main, Kansas
 City, Mo.
 Crane Co. (Est. 1855), 519 S Canal, Chicago, Ill.
 Crescent Brass & Iron Co., Detroit, Mich.
 Crescent Mfg. Co., Connellsville, Pa.
 Dalton-Ingersoll Co., 175 High, Boston, Mass.
 Darling Pump & Mfg. Co., Williamsport, Pa.
 Dart, E. M. Mfg. Co., Providence, R. I.
 Dayton Mfg. Co., Dayton, O.
 Dayton Supply Co., Dayton, O.
 Dearborn Brass Co., Cedar Rapids, Ia.
 D'Este, Julian Co., 24 Canal, Boston, Mass.
 Detroit Brass Works, Brooklyn av & M. C.
 R. R., Detroit, Mich.
 Detroit Sanitary Supply Co., 27 Jefferson av,
 Detroit, Mich.
 Diamond Stamped Ware Co., Detroit, Mich.
 Du Bois, F. N. & Co., 243 9th av, N. Y.
 Eastwood Wire Mfg. Co., Belleville, N. J.
 Eaton, Cole & Burnham Co., Bridgeport, Conn.
 Edwardsville Brass Co., Edwardsville, Ill.
 Empire Brass Mfg. Co., Cleveland, O.
 Everhart Brass Works, Scranton Pa.
 Farnan Brass Works, Cleveland, O.
 Federal Co., 69 Market, Chicago, Ill.
 Forest City Brass Works, Cleveland, O.
 Frost Mfg. Co., Kenosha, Wis.
 Gilmour, J. Morrison, 55 W 16th, N. Y.
 Glauber Brass Mfg. Co., Cleveland, O.
 Globe Brass Works, 13 Macomb, Detroit, Mich.
 Haines, Jones & Cadbury Co., 1136 Ridge av,
 Philadelphia, Pa.
 Hamilton, Jno. (Cocks & Bibbs, etc.), Bridge-
 port, Conn.
 Hamlin & Emery Brass Co., 26 Island, Bos-
 ton, Mass.
 Hardoin, Nicol, 132 E Larned, Detroit, Mich.
 Haydenville Co., Haydenville, Mass.
 Hays Mfg. Co., Erie, Pa.
 Heap, Wm. & Sons, Grand Haven, Mich.
 Hedges & Bros., Newark, N. J.
 Hercules Iron & Supply Co., Commercial &
 Hanover, Boston, Mass.
 Hoffmann, B. Mfg. Co., 257 6th, Milwaukee,
 Wis.
 Hoffman-Billings Mfg. Co., 100 2d, Milwaukee,
 Wis.
 Homer Brass Works (Inc.), 231 Race, Phila-
 delphia, Pa.
 Huber, Henry Co., 244 5th av, N. Y.
 Humphries Mfg. Co., Mansfield, O.
 Ideal Mfg. Co., Detroit, Mich.
 Illinois Malleable Iron Co., 30 W Monroe, Chi-
 cago, Ill.
 Ireland & Matthews Mfg. Co. (Brass Hinges,
 etc.), Detroit, Mich.

Jarecki Mfg. Co., Erie, Pa.
 Jefferson Mfg. Co., Lexington, Ky.
 Jenkins Mfg. Co., Bloomfield, N. J.
 Jones, Jas. Co., Los Angeles, Cal.
 Jost's, Edmund Sons, 352 Plane, Newark, N. J.
 Judd & Leland Mfg. Co., Clifton Springs, N. Y.
 Kelly, Thomas & Bros., Congress & 46th av.,
 Chicago, Ill.
 Kelly & Jones Co., 135 Water, Pittsburg, Pa.
 Works, Greensburg, Pa.
 Keystone Brass Co., Erie, Pa.
 Klusey & Mahler Co., Peoria, Ill.
 Kirkup, Robt. & Co., 616 Lodge, Cincinnati, O.
 Knott-Van Arnam Mfg. Co., Fort Wayne, Ind.
 Lake Erie Specialty Mfg. Co., Geneva, O.
 Lamp & Miller Mfg. Co., Milwaukee, Wis.
 Lauders, Pray & Clark, New Britain, Conn.
 Leather & Brass Mfg. Co., Auburn, N. Y.
 Loeffelholz & Co., Milwaukee, Wis.
 McCambridge & Co., Philadelphia, Pa.
 McDonald, A. Y. & Morrison Mfg. Co., Du-
 buque, Ia.
 McNab & Harlin Mfg. Co., 56 John, N. Y.
 McNeil Mfg. Co., 122 E 7th, Cincinnati, O.
 McKee & Roberts Co., Detroit, Mich.
 Manhattan Electrical Supply Co., 32 Cortlandt,
 Merrie, Hugh, 226 9th, Cincinnati, O. N. Y.
 Meyer-Sulzner Co., 5 E 19th, N. Y.
 Michigan Brass & Iron Co., Detroit, Mich.
 Michigan Lubricator Co., Detroit, Mich.
 Milwaukee Brass Mfg. Co., Milwaukee, Wis.
 Milwaukee Valve Co., Milwaukee, Wis.
 Morency Brass Co., Sturgis, Mich.
 Mott, J. L. Iron Works, New York.
 Mowrey & Phillips, 107 North, Boston, Mass.
 Mueller, H. Mfg. Co., Decatur, Ill.
 Mullaney's, Jas. Sons, 141 E 25th, N. Y.
 National Brass & Metal Co., Minneapolis, Minn.
 National Supply Co., Toledo, O.
 Naugatuck Brass Co., Union City, Conn.
 Nelson, N. O. Mfg. Co., St. Louis, Mo.
 Nichol, Thos. J. & Co., Pearl & Ludlow, Cin-
 cinnati, O.
 Nolte Brass Co., Springfield, O.
 Nunn Brass Works, Rochester, N. Y.
 Ohio Brass & Iron Mfg. Co., Cleveland, O.
 Ohio Pump & Brass Co., Columbus, O.
 O'Malley Mfg. Co., Scranton, Pa.
 Park & McKay Co., 55 Bagley, Detroit, Mich.
 Peck Bros. & Co., 125 Chestnut, New Haven,
 Conn.
 Perkes, Chas., 627 Arch, Philadelphia, Pa.
 Phenix Brass Foundry Co., Hartford, Conn.
 Pioneer Brass Works, Indianapolis, Ind.
 Pittsburg Brass Mfg. Co., Penn av, & 32d,
 Pittsburg, Pa.
 Pittsburg Lamp & Brass Co., Allegheny, Pa.
 Pleuger & Henger Mfg. Co., St. Louis, Mo.
 Powell, Wm. Co., 2525 Spring Grove av, Cin-
 cinnati, O.
 Powhatan Brass & Iron Works, Charlestown,
 W. Va.
 Queen City Brass & Iron Works, Spring Grove
 av & Garard, Cincinnati, O.
 Register's, J. Sons Co., Baltimore, Md.
 Reid, R. W., 272 Kent av, Brooklyn, N. Y.
 Reynolds, M. Plumbers' Supply Co., 25 Cent-
 re, N. Y.
 Richter & Co., 210 E 9th, Cincinnati, O.
 Riegler-Hauck Co., 322 Pearl, Cincinnati, O.
 Roylance Brass Mfg. Co., San Francisco, Cal.
 Rumsey, L. M. Mfg. Co., 810 N 2d, St. Louis,
 Mo.
 Rundle-Spence Mfg. Co., 63 2d, Milwaukee,
 Wis.
 Ryan, J. J. & Co., 105 S Jefferson, Chicago, Ill.
 Sanitary Co., Cleveland, O.
 Savill, Thos., 11th & Wood, Philadelphia, Pa.
 Scoville, E. U., Manlius, N. Y.
 Sherman, N. B. Mfg. Co., Battle Creek, Mich.
 Smith, A. P. Mfg. Co., Newark, N. J.
 Smith & Anthony Co., 48 Union, Boston, Mass.
 Speakman Supply & Pipe Co., Wilmington, Del.
 Spence Mfg. Co., 279 Park, Milwaukee, Wis.
 Staats & Dilmeir, 36 S 1st, Brooklyn, N. Y.
 Standard Brass Works, Detroit, Mich.
 Standard Sanitary Mfg. Co., Pittsburg, Pa.
 Stebbins, E. Mfg. Co., Springfield, Mass.
STEIN, HENRY, 48 Cliff, N. Y. (See
 adv. below)
 Sumner & Gerald Co., Boston, Mass.
 Superior Mfg. Co., Cleveland, O.
 Syracuse Faucet & Valve Co., Syracuse, N. Y.
 Thomas Brass & Iron Co., Waukegan, Ill.
 Trenton Brass & Machine Co., Trenton, N. J.

Union Brass & Metal Mfg. Co., St. Paul, Minn.
 United Brass Mfg. Co., Cleveland, O.
 Victor Excelsior Brass Works, 42 Mott, N. Y.
 Voelkner & Reinke Mfg. Co., 123 W. Wood-
 bridge, Detroit, Mich.
 Walworth Mfg. Co., 132 Federal, Boston, Mass.
 Warren Brass Mfg. Co., Warren, O.
 Warwick Valve & Faucet Co., Providence, R. I.
 Weaver, H. M. Co., Mansfield, O.
 Webb, F. W. Mfg. Co., 50 Elm, Boston, Mass.
 Welr & Craig Mfg. Co., 2421 Wallace, Chicago,
 Wise, J. B., Watertown, N. Y.
 Wolff, L. Mfg. Co., 117 W Lake, Chicago, Ill.
 Wolverine Brass Works, Grand Rapids, Mich.
 Woodworth-Evans Co., 112 Wood, Pittsburg,
 Pa.
WORCESTER PRESSED STEEL CO.
 Worcester, Mass. (See adv. index, end of
 book.)
 Zero Valve & Brass Mfg. Co., Buffalo, N. Y.

Plumbers' Cabinet Work

(See Water Closet Seats & Tanks.)

Plumbers' Chains

(See Chain Mfrs., Plumbers.)

Plumbers' Charts & Estimate Books

Starbuck, R. M. & Son, Hartford, Conn.

Plumbers' Enameled Ware Mfrs.

(See Bath Tubs, Enameled Iron.)

Plumbers' Furnaces

(See Furnaces, Plumbers' & Tanners'.)

Plumbers' Hard Fibre Specialties

(See Fibre Mfrs., Hard.)

Plumbers' Marble Work

Ahrens & Ott Mfg. Co., Louisville, Ky.
 Alexander, Alex. G., 172 Larned, Detroit, Mich.
BATTERSON & EISELE, Main Of-
 fice & Works, Edgewater, N. J., & Times
 bldg, 42d, New York. (See adv. index, end
 of book.)
 Blatz & Kerbs Stone Co., Louisville, Ky.
 Bowker, Torrey & Co., 55 Chardon, Boston,
 Mass.
 Bradbury Marble Co., 1229 S B'way, St. Louis,
 Mo.
 Buckeye Marble & Freestone Co., 3d & Eg-
 gleston av, Cincinnati, O.
 Buess, Wm., 316 E 95th, N. Y.
 Burlington Marble Co., Burlington, Vt.
 Butler, Phillips H. & Co., 25 Haverhill, Bos-
 ton, Mass.
CASCIO, S. 797-803 Lexington av., Brook-
 lyn, N. Y. (See adv. index, end of book.)
 Christa, Philip & Sons, 504 Lafayette av, De-
 troit, Mich.
 Clow, Jas. B. & Sons, 342 Franklin, Chicago,
 Ill.
 Crosseup, D. L., cor 23d & Chestnut, Phila-
 delphia, Pa.
 Davidson Bros. Marble Co., ft of Orleans, Chi-
 cago, Ill.
 Dooley, Frank, 24 Hunter's Point av, Long
 Island City, N. Y.
 Empire City Marble Co., 250 11th av, New
 York
 Eschmann, B. & J., 638 1st av, New York
 Evans Marble Co., 204 E York, Baltimore,
 Md., & Knoxville, Tenn.
 Fisher, Robt. C. Co., E 139th & Locust av,
 New York
 Georgia Marble Finishing Works, Canton, Ga.
 Grant Marble Co., Milwaukee, Wis.

Great Western Marble Works Co., 1602 Read-
 ing Road, Cincinnati, Ohio.
 Grob, German & Son, 502 W 35th, N. Y.
 Hall, Chas. E. & Co., East Cambridge, Mass.
 Hilgartner Marble Co., Baltimore, Md.
 Illinois Marble Co., Edwardsville, Ill.
 Jacoby & Son Co., 2025 Market, Philadelphia,
 Pa.
 Jordan, Chas. H., 268 Division av, Brooklyn,
 N. Y.
 Kennesaw Marble Co., Marietta, Ga.
 Klaber, A., 238 E 57th, N. Y.
 Krulish, J., 351 E 61st, N. Y.
 Livingston, Jas., 163 E 88th, New York
 Lloyd Bros. Co., Toledo, O.
 McGratty & Sons, 313 Butler, Brooklyn, N. Y.
 McLaury, D. H. Marble Co., Walnut av, n
 141st, New York.
 Marthens, Chester N. Co., 748 1st Nat'l, Chi-
 cago, Ill.
 Maxwell & Dempsey, 277 Cherry, N. Y.
 Norcross Co., 269 W River, Cleveland, O.
 Northwestern Marble Co., 419 S 6th, Minne-
 apolis, Minn.
 Peoria Stone & Marble Works, Peoria, Ill.
 Pickel Marble & Granite Co., 1901 N B'way,
 St. Louis, Mo.
 Rutland Florence Marble Co., Rutland, Vt.
 Rutland Marble Mfg. Co., Rutland, Vt.
 Shaver, Jos., Granite & Marble Co., 506 7th,
 Milwaukee, Wis.
 Sheppard, Simpson, 178 3d av, Brooklyn, N. Y.
 Shipway, J. H. & Bro., 136th & Locust av, New
 York.
 Sickels, Geo. B. & Co., Tate, Ga.
 Standard Marble Works (John M. Mueller, Jr.,
 Prop.), 706 W Front, Cincinnati, O.
 Tracy, Michael J., 199 Lexington av, Brooklyn,
 N. Y.
 Troy Bros. & Co., 91 Haverhill, Boston, Mass.
 Union Soap-Stone Co., 14 Marshall, Boston,
 Mass.
 Van Wyck & Collins, Poughkeepsie, N. Y.
 Verd-Antique Marble Co., 204 Dearborn, Chi-
 cago, Ill.
 Vermont Marble Co., Proctor, Vt.
 White's, Alfred Sons Co., 110 Bell blk, Cin-
 cinnati, O.
WEGE, CHAS., MARBLE & TILE
 Co., 375 W Rich, Columbus, O. (See adv.
 index, end of book)
 Wolff, L. Mfg. Co., 117 W Lake, Chicago, Ill.
 Young, B. P. Co., Frick bldg, Pittsburg, Pa.

Plumbers' Porcelain Ware Mfrs.

(See Bath Tubs, Porcelain.)

Plumbers' Rubber Goods

Akron Rubber Co., Akron, O.
 Alden Rubber Co., Barberton, O.
 Boston Woven Hose & Rubber Co., Boston,
 Canfield, H. O. Co., Bridgeport, Conn. Mass.
 Central Rubber & Supply Co., 229 S Meridian,
 Indianapolis, Ind.
 Combination Rubber & Belting Co., Bloomfield,
 N. J.
 Consolidated Rubber Co., Trenton, N. J.
 Continental Rubber Wks., Erie, Pa.
 Diamond Rubber Co., Akron, O.
 Elkhart Rubber Works, Elkhart, Ind.
 Empire Rubber Mfg. Co., Trenton, N. J.
 Goodrich, B. F. Co., Akron, O.
 Grieb Rubber Co., Trenton, N. J.
 Gutta Percha & Rubber Mfg. Co., 126 Duane,
 New York, N. Y.
 Hamilton Rubber Co., Trenton, N. J.
 Manhattan Rubber Mfg. Co., 18 Vesey, N. Y.
 Mechanical Rubber Co., 91 Chambers, New
 York
 Morgan & Wright (Inc.), 226 Jefferson av,
 Detroit, Mich.
 N. J. Car Spring & Rubber Co., Jersey City,
 N. J.
 New York Belting & Packing Co., 91 Chambers,
 New York
 Ogden, C. S. & Co., 52 Ferry, New York
 Peerless Rubber Mfg. Co., 16 Warren, N. Y.
 Penna. Rubber Co., Erie, Pa.
 Republic Rubber Co., Youngstown, O.
 Revere Rubber Co., 77 Bedford, Boston, Mass.
 Voorhees Rubber Mfg. Co., Jersey City, N. J.
 Western Rubber Works, Goshen, Ind.

HENRY STEIN,

48 Cliff Street, NEW YORK.

"PLUMBERS BRASS WORK OF QUALITY."

STEAM BRASS WORK, VALVES, ETC.

ENAMELED BATHS, LAVATORIES, SINKS, ETC.

Write for Prices.

Plumbers' Sanitary Earthenware Mfrs.

Acme Sanitary Pottery Co., Trenton, N. J.
American Sanitary Works, 320 B'way, N. Y.
Belmark Pottery Co., Trenton, N. J.
Brian Pottery Co., Trenton, N. J.
Camden Pottery Co., Camden, N. J.
Columbia Pottery & Mfg. Co., Kokomo, Ind.
Crescent Pottery Co. (See Trenton Potteries Co.)
Delaware Pottery Co. (See Trenton Potteries Co.)
Economy Pottery Co., Trenton, N. J. Co.)
Empire Pottery Co. (See Trenton Potteries Co.)
Enterprise Pottery Co. (See Trenton Potteries Co.)

Equitable Pottery Co. (See Trenton Potteries Co.)
Fidelity Pottery Co., Trenton, N. J. Co.)
Great Western Pottery Co., Kokomo, Ind., & Tiffin, O.

Ironsides Pottery Co., Bordentown, N. J.
Keystone Pottery Co., Trenton, N. J.
Maddock, John Sons Co., Trenton, N. J.
Maddock, Thos. & Sons Co., Trenton, N. J.
Mercer Pottery Co., Trenton, N. J.
Monument Pottery Co., Trenton, N. J.
National Pottery Co., Evansville, Ind.
Sanitary Earthenware Specialty Co. ("Sesco Vitreous"), Trenton, N. J.

Standard Sanitary Pottery Co., Elizabeth, N. J.
Trenton Fire Clay & Porcelain Co., Trenton, N. J.
Trenton Potteries Co., Trenton, N. J. N. J.
Universal Sanitary Mfg. Co., New Castle, Pa.
Vance-Faience Co., Wheeling, W. Va., & Tiltonsville, O.

Wheeling Potteries Co., Wheeling, W. Va.
Willets Mfg. Co., Trenton, N. J.

Plumbers' Seamless Tubing, in Brass, Copper & Nickel Plated

American Tube Works, 20 Gold, New York
Benedict & Burnham Mfg. Co. ("Benedict"), Waterbury, Conn.
Bridgeport Brass Co., Bridgeport, Conn., & 19 Murray, New York

HUNGERFORD, U. T., Brass & Copper Co. (Brass & Copper only), 497 Pearl, New York, N. Y.

Randolph-Clowes Co., Waterbury, Conn.
Waterbury Brass Co., Waterbury, Conn., & 99 John, N. Y.

Plumbers' Slate Work

(See Slate Urinals, Slabs, etc.; also Laundry Tubs, Slate.)

Plumbers' Soil

BERNZ, OTTO, S. 13th c S. Orange ave, Newark, N. J. (See adv. index, end of book)
Johnson, Wm. (Hedenberg Works), Newark, N. J.

Plumbers' Soldering Coppers

(See Soldering Coppers.)

Plumbers' Supplies, Jobbers

(This trade is duplicated under Steam Fitters' Supplies, etc.)

(For the manufacturers of all kinds of Plumbing Specialties, see the Specific Article Required.)

ALABAMA.

BIRMINGHAM—Colvin Mfg. Co.
Crane Co. (of Chicago), Est. 1855. (See adv. index, end of book)

CALIFORNIA.

LOS ANGELES—Boynnton, H. R. Co.

Busch, A. H. Co.
Crane Co. (of Chicago), Est. 1855. (See adv. index, end of book)

Harper & Reynolds Co.
Holbrook, Merrill & Stetson (of San Francisco)
Hooker, J. D. Co.
Montague, W. W. & Co. (of San Francisco)
Tay, Geo. H. Co.

OAKLAND—Crane Co. (of Chicago), Est. 1855. (See adv. index, end of book)

Kinney, R. W. Co.
SACRAMENTO—Miller-Chapin-Enwright Co.
SAN DIEGO—Western Metal Supply Co.

SAN FRANCISCO—Crane Co. (of Chicago), Est. 1855. (See adv. index, end of book)
Dalziel-Moller Co., 559 Mission
Haines, Jones & Cadbury Co. (of Phila., Pa.) 848 Bryant

Holbrook, Merrill & Stetson, 6th & Town-Kinney, R. W. Co., 584 Howard

Lally Co.
Montague, W. W. & Co., Turk and Polk
Tay, Geo. H. Co., 19th and Minnesota.

COLORADO.

DENVER—O'Fallon, M. J. Supply Co., 1518 Wynkoop

Wolff, L. Mfg. Co. (of Chicago), 1533 Blake

CONNECTICUT.

HARTFORD—Plimpton & Hills Corporation

NEW HAVEN—Mersick, C. S. & Co.
Peck Bros. & Co.

DELAWARE.

WILMINGTON—Delaware Electric & Supply Co.
Speakman Supply & Pipe Co.

DISTRICT OF COLUMBIA.

WASHINGTON—McCubbin, C. J. Co., 423 10th, N W

Mitchell, John, Jr., 1000 Pa av, N W
Schafer, E. G. & Co., 424 11th, N W
Somerville, Thos. Co., 316 13th N W

FLORIDA.

JACKSONVILLE—Hubbard, S. B. Co.

GEORGIA.

ATLANTA—General Supply Co.

Lowry Co.
SAVANNAH—Haines, Jones & Cadbury Co. (of Phila., Pa.)
McKenna, J. H.

HAWAII.

HONOLULU—Honolulu Iron Works

ILLINOIS.

CHICAGO—Clow, Jas. B. & Sons, 344 Franklin
Crane Co. (Est. 1855), 519 S Canal. (See adv. index, end of book)

Davis, John Co., 22d & Halstead
Davies Supply Co., 20 N Clark
Deschaur, Stephen, 334 Blue Island av
Federal Company, 227 Washington
Geary, Wm. T., 9275 S Chicago av
Hardin, Jno., 4345 Cottage Grove av
Henion & Hubbell
Illinois Malleable Iron Co., 539 Diversey av

Inter-State Supply Co., 1349 State

KELLOGG - MACKAY - CAMERON Co., Michigan av & 12th. (See adv. below)

Quinn Supply Co., 120 Southwestern av
Republic Mfg. Co., 123 W Washington
Well Bros., 15 N Clinton
Weir & Craig Mfg. Co., 2421 Wallace
Western Plumbing Supply Co., 20 S Des-plaines

Whitney & Ford, 4315 Cottage Grove av
Wolff, L. Mfg. Co., 117 W Lake

PEORIA—Kinsey & Mahler Co.
Nallon Bros. Co.

ROCKFORD—Rockford Brass Works

INDIANA.

ANDERSON—May Supply Co.

FORT WAYNE—P. & H. Supply Co.

INDIANAPOLIS—Central Supply Co., 209 W Washington
Knight & Jillson Co., 121 S Penna

MUNCIE—Keiser, Geo. & Co.

TERRE HAUTE—Prox, Frank Co.

UNION CITY—Knapp Supply Co.

IOWA.

CEDAR RAPIDS—Cedar Rapids Pump Co.
Chandler Pump Co.

DES MOINES—Kurtz, L. H. Co.

DUBUQUE—McDonald, A. Y. & Morrison Mfg.

FORT DODGE—Leighton Bros. Co.

SIOUX CITY—Crane Co. (of Chicago), Est. 1855. (See adv. index, end of book)

KANSAS.

WICHITA—Rodolf, R. O.

KENTUCKY.

LOUISVILLE—Ahrens & Ott Mfg. Co. (Inc.)

Laib Co.
Vogel, P. A. & Son

LOUISIANA.

NEW ORLEANS—Ahrens & Ott Mfg. Co. (of Louisville, Ky.), Baronne & St. Joseph
Fairbanks Co. (of New York City), Camp & Manion & Co., 622 Baronne St Joseph

MAINE.

PORTLAND—Blake, W. L. & Co.
Smith & Abbott Co.

MARYLAND.

BALTIMORE—Adt, John B.

Central Metal & Supply Co., 606 E Lombard
Crane Co. (of Chicago), Est. 1855. (See adv. index, end of book)

Crook-Horner Co., 301 N Howard

Cuyler & Mohler, 611 William

Krauss & Roberts, 1316 E Balto

Robertson, Jas. Mfg. Co., 14 S. Hanover

Southern Supply Co., Calvert & Saratoga

MASSACHUSETTS.

BOSTON—Barrett, Jas., Mfg. Co., 211 Frank-
Braman-Dow & Co., 245 Causeway 11n

Brown-Wales Co., 69 Purchase

Butler, Edmund F. & Co., 76 Pearl

Crane Co. (of Chicago), Est. 1855 (See adv. index, end of book)

Dalton-Ingersoll Mfg. Co., 169 High

PLUMBING GOODS

ENAMELED IRON TUBS AND LAVATORIES, SINKS; CLOSET COMBINATIONS AND A WIDE SELECTION OF THE BEST IN PLUMBING GOODS CARRIED IN STOCK. WRITE US YOUR WANTS.

MINNEAPOLIS SEATTLE
KANSAS CITY

Kellogg-Mackay-Cameron Co.

CHICAGO

BOILERS, RADIATORS, HEATING AND PLUMBING SUPPLIES

Decoco Co., 155 High.
 Estabrook's, R. Sons, 204 W 1st, S. B.
 Gallison, Wm. H. Co., 36 Oliver
 Gilchrist, Geo. E. Co., 106 High
 Hercules Iron & Supply Co., Commercial & Hanover

Hubbard, W. B. & Sons Co., 176 Oliver
 Locke, Stevens & Co., 94 Warrenton
 Sanitary Fixture Co., 293 Congress
 Smith & Anthony Co., 48 Union
 Sumner & Gerald Co., 287 Congress
 Thompson-Durkee Co.

Webb, F. W. Mfg. Co., 52 Elm
 Young, Jos. H., 82 High

CAMBRIDGE—Cambridge Plumbing Supply Co.
 LYNN—Bourneuf, Louis & Co.
 NEW BEDFORD—New Bedford Boiler & Machine Co.
 SOMERVILLE—Ideal Supply Co.
 SPRINGFIELD—Hitchcock Supply Co.
 New England Plumbing Supply Co.
 WORCESTER—Baker Lead Mfg. Co.
 Callahan Supply Co.

MICHIGAN.

DETROIT—Detroit Lead Pipe & Sheet Lead Works, 57 2d av.

Harvey's, A. Sons Mfg. Co. (Ltd.), 22 1st
 Park & McKay Co., 55 Bagley av
 Sales-Broad Co., 76 Jefferson av
 Walker Mfg. & Supply Co., 136 W. Larned
 GRAND RAPIDS—Ferguson Supply Co. (Ltd.)
 KALAMAZOO—Quinn Supply Co.
 LANSING—Michigan Supply Co.

MINNESOTA.

DULUTH—Crane Co. (of Chicago), Est. 1855
 (See adv. index, end of book)

Duluth Plumbing Supplies Co.

MINNEAPOLIS—Central Supply Co., 251 S 3rd av

Crane Co. (of Chicago), Est. 1855. (See adv. index, end of book)

KELLOGG - MACKAY - CAMERON
 Co. (See adv. index, end of book)
 National Brass & Metal Co., 256 S 3d av
 Plumbing & Steamfitting Supplies Co., 212 1st, N

ST. PAUL—Crane Co. (of Chicago), Est. 1855.
 (See adv. index, end of book)
 West Supply Co., 348 Wacouta

MISSOURI.

KANSAS CITY—Crane Co. (of Chicago), Est. 1855. (See adv. index, end of book)

Kansas City Pump Co.

KELLOGG - MACKAY - CAMERON
 Co., 2d & Main. (See adv. on preceding page)

Southwest Plumbing Supply Co.
 United States Water & Steam Supply Co.
 Young, W. B. Supply Co.

ST. JOSEPH—Horgan Supply Co.

ST. LOUIS—Cahill-Swift Mfg. Co., 20 S 12th
 Crane Co. (of Chicago), Est. 1855. (See adv. index, end of book)

National Plumbing Supply Co., 110 S 12th
 Nelson, N. O. Mfg. Co., 10th & Chestnut
 Rumsey, L. M. Mfg. Co., 806 N. Second
 Rumsey & Sikemeier Co., 1900 Pine

NEBRASKA.

LINCOLN—Cooper & Cole Bros.

Western Supply Co.

OMAHA—Crane Co. (of Chicago), Est. 1855.
 (See adv. index, end of book)
 United States Supply Co.

NEW HAMPSHIRE.

MANCHESTER—Manchester Supply Co.

NEW JERSEY.

CAMDEN—Fullmer, A. J.
 ELIZABETH—Elizabeth Hardware Co.
 GUTTENBERG—Herrmann, F. W.

JERSEY CITY—Jersey City Supply Co.

Perkins, Arthur L., 283 Warren

NEWARK—Crane, Moses W. & Co.

Egbert, W. V. & Co.

Gray, R., Jr.

Macknet & Dorcmus Co.

Newark Supply Co.

Roe & Conover

PATERSON—McNab & Harlin Mfg. Co.

TRENTON—Warren, Balderston & Co.

WEEHAWKEN—Berger, Edw. W. & Bro.

NEW YORK.

ALBANY—Hoy & Co., 18 Green

BUFFALO—Case, W. A. & Son Mfg. Co., 31 Main

Dixon & Ballou, Ellicott & Carroll
 Hamill, D. L., 60 Delaware av

Plumbers' & Steamfitters' Supply Co., 246
 Schafer & Co., 226 Ellicott Main

NEW ROCHELLE—Dimock & Fink Co.

NEW YORK CITY.

Borough of Brooklyn.

BROOKLYN—Burr Mfg. & Supply Co., 100 Lexington av

Clark, John F., 1150 Myrtle av
 De Laney, Thos. M., 576 Atlantic av
 Jacobs, Geo. P. & Co., B'way & S 9th
 Knight, Thos. G. Co., 52 Myrtle av
 McElraevy & Hauck Co., 440 B'way
 Read, H. P. Lead Works, 32 Sanford
 Ronalds & Johnson Co., 43 Boerum pl
 Spencer & Haviland, 174 Portland av.
 Waters & Miller

Boroughs of Manhattan & Bronx

NEW YORK—Adee, Fred Co., 44 Cliff
 American Plumbing Mfg. Co., 12 Cliff

Beals, H. H., 51 Cliff

Behrer & Co., 81 Beekman

Behrer, Arnold & Sons, 273 Pearl

Billo, Geo. H.

Campbell Supply Co., 161 E 54th

Central Plumbers Supply Co., 252 Pearl,

Colwell Lead Co., 63 Centre

Crane Co. (of Chicago), Est. 1855, 490

Cherry. (See adv. index, end of book)

Cushing, Thos. F. Co.

Dimock & Fink Co., 220 E 125th

Du Bois, F. N. & Co., 243 9th av

Evory Mfg. Co.

Glauber, Sam S., Inc., 242 E 79th

Harlem Supply Co. (Inc.)

Hnber, Henry Co., 244 5th av

Hnssey, W. H. & Son, 148 W 35th

Jordan & Fox

Keating, Edw. F. Co., 446 Water

Kenney Mfg. Co., 36 E 22d

Lederman, Samuel, 562 Amsterdam av

Locke & Smith Co., 103 W 37th

McNab & Harlin Mfg. Co., 56 John

McShane, Wm. Co., 711 6th av

Malbin & Kammerman, 922 3d av

Mayor, Lane & Co., 128 White

Meyer-Sniffen Co., 11 W. 36th

Mott, J. L., Iron Works, 118 5th av

Murray, Jno. A., 625 6th av

Nason Mfg. Co., 71 Fulton

Peck Bros. & Co. (of New Haven, Conn.), 27 W 42d

Raymond-Van Praag Supply Co., 617 E 148th

Read, H. P. Lead Works, 160 E 56th

Reynolds, M. Plumbers' Supply Co., 25 Centre

Ronalds & Johnson Co., 54 Cliff

SIMMONS, JOHN CO., 108 Centre

(See adv. index, end of book)

Smolka, Edw. & Co.

Standard Plumbing Supply Co., St. Ann's av & 159th

STEIN, HENRY (Mrs.' Agent), 48

Cliff. (See adv. index, end of book)

Vogel, Ig., 1518 1st av

Weissberg, Chas., 266 Broome

Wickes, John C., 290 Pearl

(END OF NEW YORK CITY)

ROCHESTER—Hunting Co.

Sloan, Samuel & Co., 67 Exchange

SYRACUSE—McClure, R. C. Co.

Pierce, Butler & Pierce Mfg. Co.

TROY—Aird-Don Co.

UTICA—Millar, Chas. & Son Co.

WATERTOWN—Hunting Co.

Weekes, Jno. & Son Co.

YONKERS—Yonkers Plumbing Supply Co.

NORTH DAKOTA.

FARGO—Crane Co. (of Chicago), Est. 1855.
 (See adv. index, end of book)

OHIO.

CINCINNATI—Crane Co. (of Chicago), Est. 1855. (See adv. index, end of book)

McDonald, Jas. & Son

Merkel Bros., Canal & Jackson.

Merrile, Hugh, 124 E 8th
 Murdock Mfg. & Supply Co., 426 Plum
CLEVELAND—Cleveland Plumbing Supply Co.,
 811 Vincent av, N. E.

Fisher, E. W., Co., 811 Superior av, N. E.

Kennedy Co., 1310 Huron rd., S E

Sanitary Co., 5 Water

Standard Mfg. Co. (of Pittsburg, Pa.), 648
 Huron rd, S E

COLUMBUS—Ascher Supply Co.

Columbus Brass Co.

Columbus Supply Co.

Engineers' & Plumbers' Supply Co.

Potts, B. D.

Scioto Valley Supply Co.

DAYTON—Dayton Supply Co.

MANSFIELD—Humphryes Mfg. Co.

TOLEDO—American Pump & Supply Co.

Grosswiller, Jos. F. Supply Co.

National Supply Co.

OKLAHOMA TERRITORY.

OKLAHOMA CITY—Crane Co. (of Chicago),
 Est. 1855. (See adv. index, end of book)

OREGON.

PORTLAND—Crane Co. (of Chicago), Est. 1855. (See adv. index, end of book)

Gauld Co.

Kline, M. L.

PENNSYLVANIA.

ALTOONA—Standard Supply & Equipment Co.

LANCASTER—Sheet Metal & Supply Co.

PHILADELPHIA—Blessing, C. A., 516 Mont-

gomery av

Cooper, Wm. S., Brass Works, 437 N 12th

Crane Co. (of Chicago), Est. 1855, 22 S

5th. (See adv. index, end of book)

Fleck Bros. Co., 44 N 5th

Froelich Bros., 142 N 7th

Haines, Jones & Cadbury Co., 1128 Ridge av

Haynes-Thompson Co.

Keystone Supply & Mfg. Co., 927 N 9th

McCambridge & Co. (Ltd.), 315 N 20th

Perkes, Charles

Ronalds & Johnson Co. (of N. Y.), 139 N 7th

Savill, Thos. & Sons, cor 11th & Wood

Shuster Foundry Co., 41 N Franklin

Standard Plumbing Supply Co., 27 N 7th

Walls, Owen & Stambach Co., 1041 Ridge av

PITTSBURG—Anchor Sanitary Co., 123 3d av

Bailey-Farrell Mfg. Co., Bailey-Farrell

Bowman, A. H. & Co., 890 Main bldg

Duquesne Sanitary Co., 2d av. & Cherry al

Fort Pitt Supply Co., 332 2d av

Harris Pump & Supply Co., 320 3d av

Kelly & Jones Co., 135 Water

Pittsburg Supply Co., 439 Water

Standard Mfg. Co., 913 Liberty av

Union Mfg. & Supply Co., Scott pl

SCRANTON—Weeks, R. E. Co.

Wyoming Valley Supply & Mfg. Co.

WILKES-BARRE—Pennsylvania Supply Co.

Wyoming Valley Supply & Mfg. Co.

RHODE ISLAND.

PROVIDENCE—Peck, Benj. T.

Phillips Lead & Supply Co.

Providence Plumbing Supply Co.

Tillinghast, L. H. Supply Co.

SOUTH CAROLINA.

CHARLESTON—Bailey-Lebby Co.

COLUMBIA—Dozier, L. B. Co.

SOUTH DAKOTA.

WATERTOWN—Crane Co. (of Chicago), Est. 1855. (See adv. index, end of book)

TENNESSEE.

CHATTANOOGA—Fritts, Tom, Hardware Co.

James Supply Co.

KNOXVILLE—Southern Brass & Iron Co.

MEMPHIS—Crane Co. (of Chicago), Est. 1855.

(See adv. index, end of book)

NASHVILLE—Nashville Plumbers' & Mill Sup-

ply Co.

TEXAS.

DALLAS—Crane Co. (of Chicago), Est. 1855.
 (See adv. index, end of book)

FORT WORTH—Gamer Co.

UTAH.

SALT LAKE CITY—Crane Co. (of Chicago), Est. 1855. (See adv. index, end of book)

VERMONT.

RUTLAND—Lincoln Iron Works

VIRGINIA.

HAMPTON—Booker, H. R. & Co.
NORFOLK—Virginia-Carolina Supply Co.
RICHMOND—Bargamin, G. & A. Co.
Virginia-Carolina Supply Co.

WASHINGTON.

SEATTLE—Bowles Co.
Crane Co. (of Chicago), Est. 1855. (See adv. index, end of book)
Hambach, A. Co.
KELLOGG - MACKAY - CAMERON Co. (See adv. index, end of book)
SPOKANE—Crane Co. (of Chicago), Est. 1855 (See adv. index, end of book)
Holley-Mason Hdwe. Co.
Hughes & Co.
TACOMA—Crane Co. (of Chicago), Est. 1855. (See adv. index, end of book)
Walsh & Gardner

WISCONSIN.

GREEN BAY—Murphy Supply Co.
LA CROSSE—La Crosse Plumbing Supply Co.
Roosevelt, W. A. Co.
MILWAUKEE—Dengel, F. R. Mfg. Co., 330 4th
Hoffmann, B. Mfg. Co., 257 6th
Hoffman-Billings Mfg. Co., 178 Becher
Rom, Robt. Co., 1101 St. Paul av
Rundle-Spence Mfg. Co., 63 2d

Plumbers' Torches

(See Torches, Various Kinds.)

Plumbers' Washers

(See Washers, Various Kinds.)

Plumbers' Wood Work

(For jobbers of this trade see Plumbers' Supplies, Jobbers.)

American Mfg. Co., Middleport, O.
American Sanitary Works, Washington, N. J.
Ascher-Fox Mfg. Co., Columbus, O.
Becker Mill Co., The (Fine), Marietta, Ohio
Blessing, C. A., 516 Montgomery av, Philadelphia, Pa.
Budde, Jos., 577 Mission, San Francisco, Cal.
Burlington Venetian Blind Co. (Water Closet Seats Only), Burlington Vt.
Burrows, Wm. Mfg. Co., 72 Cliff, N. Y.
Clow, Jas. B. & Sons, 344 Franklin, Chicago, Ill.
Columbus Brass Co. (Bent Wood Seats & Simplex Tanks), Columbus, O.
Connolly Supply Co. (Circular & Square Tanks), 1071 Atlantic av, Brooklyn, N. Y.
Cowmeadow Mfg. Co., Oswego, N. Y.
Coyne & Delaney, 303 Rodney, Brooklyn, N. Y.
Day-Garrett Mfg. Co. (Low-down Tanks & Slots), 151 Green, Jersey City, N. J.
Deweese, S. T. Mfg. Co., Chattanooga, Tenn.
Douglas, Jno. Co., 900 Poplar, Cincinnati, O.
Emery, W. S. ("Acme"), 78 Cliff, New York
Ferguson-Marcellus Co., Grand Rapids, Mich.
Findeisen & Kropf Mfg. Co., W 21st pl cor S Rockwell, Chicago, Ill.
Globe Furniture Co., Northville, Mich.
Hale & Kilburn Mfg. Co., 18 N 6th, Philadelphia, Pa.
Herrmann Furniture & Plumbers' Cabinet Works, 368 Broome, N. Y.
Heap, Wm. and Sons (Seats, Tanks, Low-down Tanks, Export English Pattern), Grand Haven, Mich.
Hogan Mfg. Co., Hartford, Conn.
Huber, Henry Co., 244 5th av, New York
Ideal Mfg. Co. (Seats & Tanks), 546 Franklin, Detroit, Mich.
Knott-Van Arnham Mfg. Co., Fort Wayne, Ind.
Leclair Mfg. Co., Edwardsville, Ill.
Lipp, Louis Co., Mitchell av & B. & O. S. W. Ry., Cincinnati, O., & 104 High, Boston, Mass.
Lowville Lumber & Mfg. Co., Lowville, N. Y.
McShane, Henry Mfg. Co., Baltimore, Md.
Miller-Hubbard Mfg. Co., Sturgis, Mich.

Mott, J. L. Iron Works, 118 5th av., New York
Nelson, N. O. Mfg. Co., 424 N 8th, St. Louis.
Never-Split Seat Co., Evansville, Ind. Mo.
New York Dimension Supply Co., Evansville, Ind., & 1 Madison av, New York
Paine Lumber Co. (for the trade only), Oshkosh, Wis., & 1 Madison av, N. Y.
Park & McKay Co., Detroit, Mich.
Peerless Tank & Seat Co., Evansville, Ind.
Peirce, W. E. & Co., Milford, N. H.
P'au Mfg. Co., 536 Reading rd, Cincinnati, O.
Pierce, Butler & Pierce Mfg. Co., Syracuse, N. Y.
Pierce, W. E. & Co., Milford, N. H.
Plumbers' Woodwork Co., 62 Elizabeth, New York
Red Star Sanitary Co. (Ltd.), Detroit, Mich.
Sanitary Mfg. Co., Hamilton, O.
Seestadt Bros. Mfg. Co., Romulus, Mich.
Shwab Bros. Co., 42 Cliff, N. Y.
Smith & Pomeroy, Kalamazoo, Mich.
Standard Sanitary Mfg. Co., Bessemer bldg. Pittsburg, Pa.
Standard Tank & Seat Co., Camden, N. J.
STEIN, HENRY, 48 Cliff, New York, N. Y. (See adv. index, end of book)
Swain Mfg. Co., 7th & Morris, Philadelphia, Pa.
Taylor, Henry Lumber Co., Lafayette, Ind.
U. S. Woodworking Co., 369 Rider av., New York
Victor Mfg. Co., Concord, N. H.
Wolff, L. Mfg. Co., 117 W Lake, Chicago, Ill.; Denver, Colo.

Plumbers' & Tinnners' Furnaces

(See Furnaces, Plumbers' & Tinnners'.)

***Plumbing Fixtures**

WORCESTER PRESSED STEEL CO.
Worcester, Mass. (See adv. index, end of book)

Pneumatic Air Hoists

(See Pneumatic Hoists)

Pneumatic Alligator Riveters

Allen, Jno. F., 37 Gerard av, New York

***Pneumatic Armor Scaling Machines**

CHICAGO PNEUMATIC TOOL CO.,
Fisher bldg., Chicago, Ill. (See adv. index and branch offices, end of book)

***Pneumatic Baby Drillers**

DALLETT, THOS. H. CO., York & Sedgley av, Phila., Pa. (See adv. index, end of book)

***Pneumatic Baby Surfacers**

DALLETT, THOS. H. CO., York & Sedgley av, Phila., Pa. (See adv. index, end of book)

Pneumatic Beading Hammers

CHICAGO PNEUMATIC TOOL CO. ("Boyer"). Fisher bldg, Chicago, Ill. (See adv. index & branch offices, end of book)

CLEVELAND PNEUMATIC TOOL CO., 6410 Hawthorne av., Cleveland, O. (See adv. index & branch offices, end of book)

DALLETT, THOS. H. CO., York & Sedgley av, Phila., Pa. (See adv. index, end of book)

DAYTON PNEUMATIC TOOL CO. ("Green" & "Dayton"), Dayton, O. (See adv. index & branch offices, end of book)

Independent Pneumatic Tool Co. ("Thor") Pneumatic Tool), First Nat'l bldg, Chicago, Ill.

INGERSOLL-RAND CO., 11 B'way, New York (See adv. index & branch offices, end of book)

MANHATTAN TOOL CO., care E. W. Bliss Co., 19 Adams, Brooklyn, N. Y. Pneumatic Appliance Co., 150 Nassau, New York, N. Y.

OLDHAM, GEO. & SON, Frankford, Phila., Pa. (See adv. index, end of book)

Standard Railway Equipment Co., St. Louis, Mo.

***Pneumatic Bolt Nippers**

CHICAGO PNEUMATIC TOOL CO., Fisher bldg, Chicago, Ill. (See adv. index & branch offices, end of book)

***Pneumatic Boring Machines**

INGERSOLL-RAND CO. (for Metal or Wood), 11 B'way, New York. (See adv. index & branch offices, end of book)

Pneumatic Breast Drills

CHICAGO PNEUMATIC TOOL CO. ("Duntley"), Fisher bldg, Chicago, Ill. (See adv. index & branch offices, end of book)

CLEVELAND PNEUMATIC TOOL CO., ("Cleveland" Rotary), 6410 Hawthorne av., Cleveland, O. (See adv. index & branch offices, end of book)

Empire Engine & Motor Co. ("Empire"), Orangeburg, N. Y.

INGERSOLL-RAND CO., 11 B'way, New York. (See adv. index & branch offices, end of book)

Pneumatic Appliance Co., 150 Nassau, New York, N. Y.

Pneumatic Casting Cleaners

(See Pneumatic Scaling Hammers)

Pneumatic Center Grinders

Empire Engine & Motor Co. ("Empire"), Orangeburg, N. Y.

Pneumatic Chain Hoists

Curtis & Co., Mfg. Co., St. Louis, Mo.
Empire Engine & Motor Co. ("Empire"), Orangeburg, N. Y.

Pneumatic Chipping & Calking Hammers

CHICAGO PNEUMATIC TOOL CO. ("Boyer," "Keller"), Fisher bldg, Chicago, Ill. (See adv. index & branch offices, end of book)

CLEVELAND PNEUMATIC TOOL CO., ("New Cleveland"), 6410 Hawthorne av., Cleveland, O. (See adv. index & branch offices, end of book)

DALLETT, THOS. H. CO., York & Sedgley av, Phila., Pa. (See adv. index, end of book)

DAYTON PNEUMATIC TOOL CO. ("Green" & "Dayton"), Dayton, O. (See adv. index & branch offices, end of book)

Independent Pneumatic Tool Co. ("Thor"), First National Bank bldg, Chicago, Ill.

INGERSOLL-RAND CO., 11 B'way, New York. (See adv. index & branch offices, end of book)

KOTTEN, H. G. (For Stone), 120 Liberty, New York. (See adv. index, end of book)

Leyner, J. Geo. Engineering Works Co., Littleton, Colo.

MANHATTAN TOOL CO., care E. W. Bliss Co., 19 Adams, Brooklyn, N. Y.

OLDHAM, GEO. & SON, Frankford, Phila., Pa. (See adv. index, end of book)

Pittsburg Pneumatic Co., Canton, O.

Pneumatic Appliance Co., 150 Nassau, New York, N. Y.

Standard Railway Equipment Co., St. Louis, Mo.

Pneumatic Compression Riveters

Albree, Chester B., Iron Works, Allegheny, Pa.
Allen, John F., 370 Gerard av, New York

CHICAGO PNEUMATIC TOOL CO., Fisher bldg, Chicago, Ill. (See adv. index & branch offices, end of book)

GENERAL PNEUMATIC TOOL CO. ("Shepard"), Montour Falls, N. Y., & 149 B'way, New York. (See adv. index, end of book)

Hanna Engineering Works, 820 Elston av, Chicago, Ill.

INGERSOLL-RAND CO., 11 B'way, New York. (See adv. index & branch offices, end of book)

Pittsburg Pneumatic Co., Canton, O.

Slocumb, F. F. & Co. ("Caskey"), Wilmington, Del.

Pneumatic Concrete Rammers

(See Pneumatic Sand Rammers.)

Pneumatic Crane Motors

Emple Engine & Motor Co. ("Emple"),
Orangeburg, N. Y.
INGERSOLL-RAND CO., 11 B'way,
New York. (See adv. index & branch of-
fices, end of book)

Pneumatic Cranes

(See Cranes, Pneumatic.)

Pneumatic Despatch Tubes

(See Pneumatic Tubes)

Pneumatic Drift Bolt Drivers

CHICAGO PNEUMATIC TOOL CO.,
Fisher bldg, Chicago, Ill. (See adv. index
& branch offices, end of book)
Pittsburg Pneumatic Co., Canton, O.

Pneumatic Drills

Albree, Chester B., Iron Works, Allegheny,
Pa.
CHICAGO PNEUMATIC TOOL CO.,
("Little Giant," "Boyer," "Keller"),
Fisher bldg, Chicago, Ill. (See adv. index
& branch offices, end of book)
Cleveland Pneumatic Tool Co. (Piston), Cleve-
land, O.
Columbus Pneumatic Tool Co. ("U. & W."),
Columbus, O.
DALLETT, THOS. H. CO., 2303 York,
Phila., Pa. (See adv. below)
DAYTON PNEUMATIC TOOL CO.
("Dayton"), Dayton, O. (See adv. index
& branch offices, end of book)
Emple Engine & Motor Co. ("Emple," for
Metal or Wood), Orangeburg, N. Y.
HELWIG MFG. CO. (Reversible), St.
Paul, Minn. (See adv. index, end of book)
Independent Pneumatic Tool Co. ("Thor"),
First Nat'l Bank bldg, Chicago, Ill.
INGERSOLL-RAND CO., 11 B'way,
New York. (See adv. index & branch of-
fices, end of book)

OLDHAM, GEO. & SON, Frankford,
Phila., Pa. (See adv. index, end of book)
Lee Mfg. Co., Port Huron, Mich.
Leyner, J. Geo. Engineering Works Co., Lit-
tleton, Colo.
Pittsburg Pneumatic Co., Canton, O.
Pneumatic Appliance Co., 150 Nassau, New
York, N. Y.
Shaw, C. H. Pneumatic Tool Co., Denver, Colo.
Standard Railway Equipment Co., St. Louis,
Mo.

***Pneumatic Emery Grinder**

HELWIG MFG. CO. (Portable), St.
Paul, Minn. (See adv. index, end of book)

***Pneumatic Feather Drills**

(See Pneumatic Plug Drillers.)

Pneumatic Flue Cutters

Alliance Machine Co. ("McGrath"), Alliance,
Ohio
Draper Mfg. Co. ("McGrath"), Port Huron,
Mich.
CHICAGO PNEUMATIC TOOL CO.,
Fisher bldg, Chicago, Ill. (See adv. index
& branch offices, end of book)
INGERSOLL-RAND CO., 11 B'way,
New York. (See adv. index & branch of-
fices, end of book)

***Pneumatic Flue Expanders**

CHICAGO PNEUMATIC TOOL CO.,
Fisher bldg, Chicago, Ill. (See adv. index
& branch offices, end of book)

Pneumatic Flue Rollers

CHICAGO PNEUMATIC TOOL CO.,
Fisher bldg, Chicago, Ill. (See adv. index
& branch offices, end of book)
Independent Pneumatic Tool Co. ("Thor" Re-
versible), First Nat'l Bank bldg, Chicago,
Ill.
INGERSOLL-RAND CO., 11 B'way,
New York. (See adv. index & branch of-
fices, end of book)

Pneumatic Flue Welders

Alliance Machine Co. ("McGrath"), Alliance, O.
Draper Mfg. Co. ("McGrath"), Port Huron,
Mich.

Pneumatic Forges

CHICAGO PNEUMATIC TOOL CO.,
("Chicago"), Fisher bldg, Chicago, Ill. (See
adv. index & branch offices, end of book)
CLEVELAND PNEUMATIC TOOL CO.,
("Gunnell" Rivet), 6410 Hawthorne av.,
Cleveland, O. (See adv. index & branch
offices, end of book)
INGERSOLL-RAND CO., 11 B'way,
New York. (See adv. index & branch of-
fices, end of book)
Hoermann, A. E. ("Gunnell"), 41 Park Row,
New York

**Pneumatic Forging Hammers or
Machines**

Featherstone Foundry & Machine Co. ("Ken-
nedy"), 303 Railway Ex., Chicago, Ill.
Williams, White & Co. ("Yeakley"), Moline, Ill.

Pneumatic Foundry Rammers

(See Pneumatic Sand Rammers.)

**Pneumatic Granite Cutters'
Tools**

(See Pneumatic Stone Cutters' Tools.)

Pneumatic Hammers

Albree, Chester B., Iron Works, Allegheny, Pa.
CHICAGO PNEUMATIC TOOL CO.
("Boyer," "Keller," Riveting), Fisher
bldg, Chicago, Ill. (See adv. index &
branch offices, end of book)
CLEVELAND PNEUMATIC TOOL CO.,
6410 Hawthorne av, Cleveland, O. (See
adv. index, end of book)

"DALLETT"

Carving Tools, Plug Drills and Surfacing Machines

ARE FARTHER IN THE LEAD THAN EVER.

Their Success enables us to again make this offer:

*We will ship our Tools to any responsible party on
fifteen days' trial, in competition with other makes,
and pay return charges if they do not "win out."*

PNEUMATIC TOOLS WORK BEST WITH "DALLETT" ACCESSORIES—

Chisels, Hose, Hose Couplings, Hose Clips, Stop Cocks, Etc.

AT THE RIGHT PRICES.

Write for Bulletins.

THOS. H. DALLETT CO.

23d and York Sts.

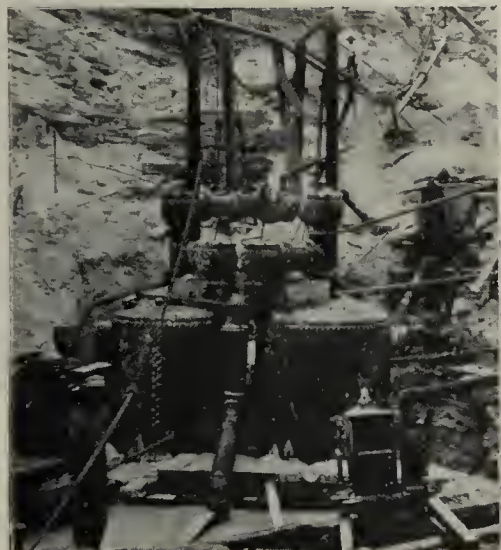
PHILADELPHIA, PA.

PNEUMATIC TOOLS PUMPS HOISTS

PNEUMATIC TOOLS

A complete line covering every requirement, superior in design and construction, economical of power and repairs, unequaled in capacity—"Crown" and "Imperial" hammers for chipping, riveting and calking—"Imperial" piston and "Haeseler" rotary drills for drilling, reaming, beading and wood-boring.

THE "RETURN-AIR" PUMPING SYSTEM



The most economical method of pumping by compressed air—Maintains its high economy indefinitely—Automatic in operation, easily installed, adapted to any lift or capacity.—Pumps any fluid without injury—clear, muddy, gritty or acid water, acids, solutions, sand and marl.—Catalog R12.



DISPLACEMENT PUMPS

A pneumatic device of good economy for moving large volumes of water or other fluid over moderate lifts.

AIR LIFTS

A system of raising water from deep driven wells by compressed air—Will lift more water from a driven well than any other method—Catalog 73.

"IMPERIAL" MOTOR HOISTS

A dust-proof, splash-oiling, wholly-enclosed type running at highest efficiency, with maximum power and reliability—Built in five sizes, with capacities of from ½ to 5 tons—Bulletin 2008.

AIR COMPRESSORS

COAL CUTTERS

CHANNELERS

SEE PAGE 326

ROCK DRILLS

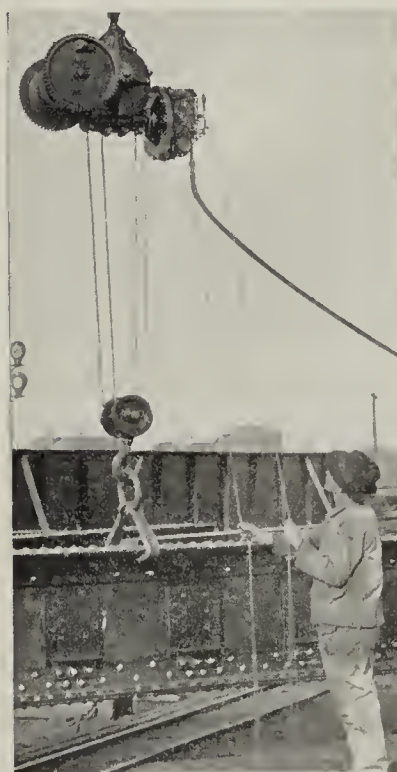
CALYX DIAMOND-LESS

CORE DRILLS

SEE PAGE 242

INGERSOLL-RAND CO.

11 BROADWAY, NEW YORK





"KOTTEN" Pneumatic Surfacers in operation.

"KOTTEN" Pneumatic Tools

for Carving, Lettering,
Drilling and Surfacing
all kinds of Stone.

PNEUMATIC
SURFACING MACHINES,
BABY SURFACERS,
BABY DRILLERS,
PLUG DRILLERS,
CARVING TOOLS,
AIR COMPRESSORS,
COMPLETE PNEUMATIC
EQUIPMENTS.

H. G. KOTTEN, Mfr.,

120 Liberty St.,

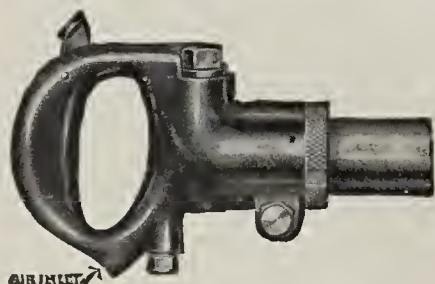
NEW YORK, U. S. A.

WRITE FOR CATALOGUE AND PRICES.

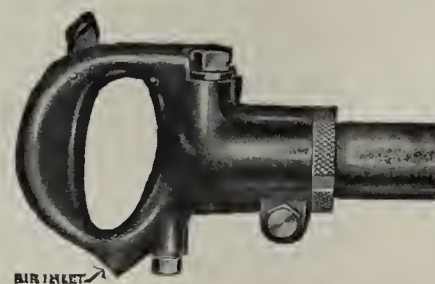
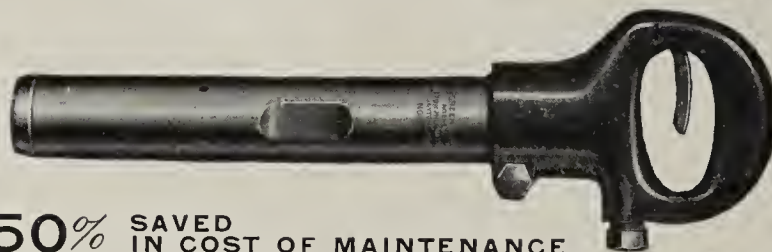
THE DAYTON PNEUMATIC TOOL CO.

PNEUMATIC HAMMER
SPECIALISTS

DAYTON
PNEUMATIC HAMMERS



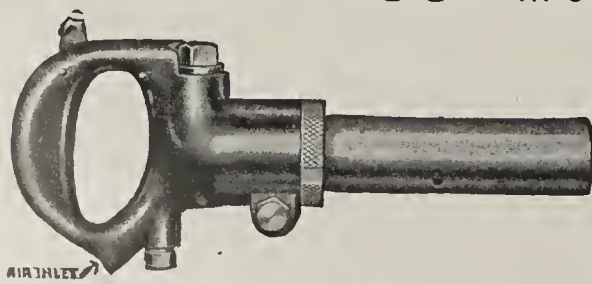
Contain the least
number of parts of
any tool of their kind



Have been adopted
by the largest users
in the world

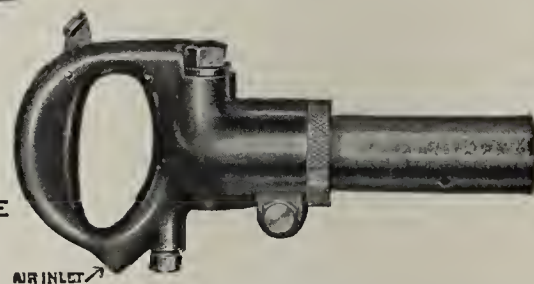
50% SAVED
IN COST OF MAINTENANCE

WRITE FOR CATALOG
AND PRICES BEFORE
PURCHASING.



FACTORY AND MAIN OFFICE

DAYTON, OHIO, U. S. A.



EASTERN OFFICE
1100-1101 No. 41 Park Row, NEW YORK CITY

PITTSBURG
717 PARK BUILDING

DALLETT, THOS. H. CO., York & Sedgely av., Phila., Pa. (See adv. on preceding page)

DAYTON PNEUMATIC TOOL CO. ("Green" & "Dayton"), Dayton, O. (See adv. index & branch offices, end of book)

GENERAL PNEUMATIC TOOL CO. ("Shepard" Riveting & Chipping), Montour Falls, N. Y. (See adv. index, end of book)

HELWIG MFG. CO. (For Chipping, Calking & Riveting), St. Paul, Minn. (See adv. index, end of book)

Independent Pneumatic Tool Co. ("Thor"), First Nat'l Bk. bldg., Chicago, Ill.

INGERSOLL-RAND CO., 11 B'way, New York. (See adv. index & branch offices, end of book)

KOTTEN, H. G. (For Stone, Granite & Marble), 120 Liberty, New York. (See adv. index, end of book)

Leyner, J. Geo. Engineering Works Co. (For Stone or Metal), Littleton, Colo.

MANHATTAN TOOL CO., care E. W. Bliss Co., 19 Adams, Brooklyn, N. Y.

OLDHAM, GEO. & SON (For Stone, Marble & Granite), 4326 Thackawanna Fkd., Phila., Pa. (See adv. on following page)

Pittsburg Pneumatic Co., Canton, O.

Pneumatic Appliance Co., 150 Nassau, New York, N. Y.

Shaw, C. H. Pneumatic Tool Co., 35th & Wazee, Denver, Colo.

Standard Railway Equipment Co., St. Louis, Mo.

*Pneumatic Hand Hammer Drills

SULLIVAN MACHINERY CO. ("Sullivan"), Railway Exchange, Chicago, Ill. (See adv. index & branch offices, end of book)

Pneumatic Hoisting Engines

(See Engines, Pneumatic.)

Pneumatic Hoists

American Air Compressor Works, 26 Cortlandt, New York, & Van Brunt & Summit, Brooklyn, N. Y.

American Steam Pump Co., Battle Creek, Mich.

CHICAGO PNEUMATIC TOOL CO. (Geared & Trolley Combined), Fisher bldg., Chicago, Ill. (See adv. index & branch offices, end of book)

Curtis & Co., Mfg. Co. (Vertical, Horizontal Traveling, etc.), St. Louis, Mo.

Dake Engine Co. (Chain), Grand Haven, Mich.

DAYTON PNEUMATIC TOOL CO., Dayton, O. (See adv. index & branch offices, end of book)

Detroit Engineering Works, Chene & Guion, Detroit, Mich.

Empire Engine & Motor Co. ("Empire" Motor Chain), Orangeburg, N. Y.

FAIRBANKS, MORSE & CO., Frank-lin & Monroe, Chicago, Ill. (See adv. index & branch offices, end of book)

FREVERT MACHINERY CO., 18 Dey, New York. (See adv. index, end of book)

GENERAL PNEUMATIC TOOL CO. ("Shepard" Pneumatic Motor), Montour Falls, N. Y. (See adv. index & branch offices, end of book)

Hanna Engineering Works, 820 Elston av., Chicago, Ill.

INGERSOLL-RAND CO., 11 B'way, New York. (See adv. index & branch offices, end of book)

Lee Mfg. Co. (Motor Hoists & Trolley & Hoist Combined), Port Huron, Mich.

Leyner, J. Geo. Engineering Works Co., Littleton, Colo.

Nason Mfg. Co., 71 Beekman, New York

NORTHERN ENGINEERING WKS., Detroit, Mich. (See adv. index, end of book)

Pilling Air Engine Co., Detroit, Mich.

Quincy-Manchester-Sargent Co., Old Colony bldg., Chicago, Ill., & 114 Liberty, New York

Ridgway, Craig & Son Co. (Vertical & Horizontal), Coatesville, Pa.

Rix Compressed Air & Drill Co. (Mine), 396 Mission, San Francisco, Cal.

Pittsburg Pneumatic Co., Canton, O.

Standard Railway Equipment Co., St. Louis, Mo.

WHITING FOUNDRY EQUIPMENT Co., Harvey, Ill. (See adv. index & branch offices, end of book)

Pneumatic Hose Couplings

CHICAGO PNEUMATIC TOOL CO., ("Chicago" Universal), Fisher bldg., Chicago, Ill. (See adv. index & branch offices, end of book)

Clark, W. J. Co. ("Quick-As-Wink"), Salem, Ohio

CLEVELAND PNEUMATIC TOOL CO., ("Bowes"), 6410 Hawthorne av., Cleveland, O. (See adv. index & branch offices, end of book)

Curtis & Co. Mfg. Co. ("Curtis"), St. Louis, Mo.

DALLETT, THOS. H. CO. ("Dallett" Automatic), York & Sedgely av., Phila., Pa. (See adv. on preceding page)

INGERSOLL-RAND CO., 11 B'way, New York. (See adv. index & branch offices, end of book)

Moran Flexible Steam Joint Co. (All Metal Flexible, also for Steam or Liquid), Louisville, Ky.

National Pipe & Hose Coupler Co., Detroit, Mich.

Pittsburg Pneumatic Co., Canton, O.

SLOCOMB, F. F. & CO., Wilmington, Del. (See adv. index, end of book)

Pneumatic Hydro Riveters

Pittsburg Pneumatic Co., Canton, O.

Reliance Pneumatic Tool Co., Channing & Franklin avs., St. Louis, Mo.

Pneumatic Jacks

CHICAGO PNEUMATIC TOOL CO. Fisher bldg., Chicago, Ill. (See adv. index & branch offices, end of book)

INGERSOLL-RAND CO., 11 B'way, New York. (See adv. index & branch offices, end of book)

Ultra Pump & Power Co. ("Ultra"), 31 Exchange, Boston, Mass., & Auburn, N. Y.

WHITING FOUNDRY EQUIPMENT Co., General Office & Works, Harvey, Ill. (See adv. index & branch offices, end of book)

*Pneumatic Jam Riveters

CHICAGO PNEUMATIC TOOL CO., Fisher bldg., Chicago, Ill. (See adv. index & branch offices, end of book)

CLEVELAND PNEUMATIC TOOL CO., 6410 Hawthorne av., Cleveland, O. (See adv. index & branch offices, end of book)

INGERSOLL-RAND CO., 11 B'way, New York. (See adv. index & branch offices, end of book)

*Pneumatic Junior Surfacers

KOTTEN, H. G., 120 Liberty, New York. (See adv. index, end of book)

Pneumatic Lattice Column Riveters

Allen, Jno. F., 370 Gerard av., New York

Pneumatic Motors

CHICAGO PNEUMATIC TOOL CO. Fisher bldg., Chicago, Ill. (See adv. index & branch offices, end of book)

CLEVELAND PNEUMATIC TOOL CO., 6410 Hawthorne av., Cleveland, O. (See adv. index & branch offices, end of book)

Dake Engine Co. (Reversible), Grand Haven, Mich.

DAYTON PNEUMATIC TOOL CO., Dayton, O. (See adv. index & branch offices, end of book)

Draper Mfg. Co. ("McGrath" for Turntables, etc.), Port Huron, Mich.

Empire Engine & Motor Co. ("Empire"), Orangeburg, N. Y.

GENERAL PNEUMATIC TOOL CO. ("Shepard" Reversible Back Geared, for Montour Falls, N. Y. (See adv. index & branch offices, end of book)

HELWIG MFG. CO. (Reversible, Both End & Central Spindle for Metal & Wood Boring), St. Paul, Minn. (See adv. index, end of book)

Independent Pneumatic Tool Co. ("Thor"), First Nat'l Bank bldg., Chicago, Ill.

INGERSOLL-RAND CO., 11 B'way, New York. (See adv. index & branch offices, end of book)

Lee Mfg. Co., Port Huron, Mich.

Pilling Air Engine Co., Detroit, Mich.

Pittsburg Pneumatic Co., Canton, O.

Reliance Pneumatic Tool Co. (For Wood Boring, etc.), Channing & Franklin avs., St. Louis, Mo.

Standard Railway Equipment Co., St. Louis, Mo.

***Pneumatic Painting Machines**

(See also Paint Spraying Machines.)

CHICAGO PNEUMATIC TOOL CO., Fisher bldg., Chicago, Ill. (See adv. index & branch offices, end of book)

CLEVELAND PNEUMATIC TOOL CO., 6410 Hawthorne av., Cleveland, O. (See adv. index & branch offices, end of book)

DALLETT, THOS. H. CO., York & Sedgely av., Phila., Pa. (See adv. on preceding page)

DAYTON PNEUMATIC TOOL CO., Dayton, O. (See adv. index & branch offices, end of book)

Hudson Machine & Pneumatic Tool Co., Greenwich & Bethune, New York

INGERSOLL-RAND CO., 11 B'way, New York. (See adv. index & branch offices, end of book)

KOTTEN, H. G., 120 Liberty, New York. (See adv. index, end of book)

OLDHAM, GEO. & SON, Fkd., Phila., Pa. (See adv. on following page)

Leyner, J. Geo., Engineering Works Co., Littleton, Colo.

SULLIVAN MACHINERY CO. ("Sul-livan"), Railway Exchange, Chicago, Ill. (See adv. index & branch offices, end of book)

Wood, Warren, Paterson, N. J.

Pneumatic Piston Drills

CHICAGO PNEUMATIC TOOL CO., ("Little Giant," "Boyer"), Fisher bldg., Chicago, Ill. (See adv. index & branch offices, end of book)

CLEVELAND PNEUMATIC TOOL CO., 6410 Hawthorne av., Cleveland, O. (See adv. index & branch offices, end of book)

Columbus Pneumatic Tool Co. ("U. & W." for Drilling in Close Quarters and Heavy Reaming), Columbus, O.

Independent Pneumatic Tool Co. ("Thor"), First Nat'l Bank bldg., Chicago, Ill.

INGERSOLL-RAND CO., 11 B'way, New York. (See adv. index & branch offices, end of book)

Pittsburg Pneumatic Co., Canton, O.

Pneumatic Appliance Co., 150 Nassau, New York, N. Y.

Pneumatic Platform Hoists

Curtis & Co., Mfg. Co., St. Louis, Mo.

*Pneumatic Polishing Machinery

HARRISON SUPPLY CO., 5 & 7 Dor-chester av., Extension, Boston, Mass. (See adv. index, end of book)

Pneumatic Portable Saws

Reliance Pneumatic Tool Co., Channing & Franklin avs., St. Louis, Mo.

Pneumatic Presses

Slocumb, F. F. & Co. ("Caskey"), Wilmington, Del.

*Pneumatic Pumping Systems

(See also Pumps, Pneumatic.)

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)
GARDNER GOVERNOR CO., Quincy, Ill. (See adv. index, end of book)
INGERSOLL-RAND CO., 11 B'way, New York. (See adv. index & branch offices, end of book)

Pneumatic Punches

CHICAGO PNEUMATIC TOOL CO., Fisher bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Reliance Pneumatic Tool Co. (Combination Flange Punching & Riveting Machines), Channing & Franklin avs, St. Louis, Mo.
Slocomb, F. F. & Co. ("Caskey" Portable), Wilmington, Del.

Pneumatic Reaming & Tapping Drills

CHICAGO PNEUMATIC TOOL CO., Fisher bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
CLEVELAND PNEUMATIC TOOL CO., 6410 Hawthorne av, Cleveland, O. (See adv. index & branch offices, end of book)
DAYTON PNEUMATIC TOOL CO., Dayton, O. (See adv. index & branch offices, end of book)
Independent Pneumatic Tool Co. ("Thor Reversible"), First Nat'l Bank bldg, Chicago, Ill.
INGERSOLL-RAND CO., 11 B'way, New York. (See adv. index & branch offices, end of book)
Pittsburg Pneumatic Co., Canton, O.
National Twist Drill & Tool Co., Detroit, Mich.
Standard Railway Equipment Co., St. Louis, Mo.

Pneumatic Rivet Holder-On

CHICAGO PNEUMATIC TOOL CO., Fisher bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
CLEVELAND PNEUMATIC TOOL CO., 6410 Hawthorne av, Cleveland, O. (See adv. index & branch offices, end of book)
INGERSOLL-RAND CO., 11 B'way, New York. (See adv. index & branch offices, end of book)
Pittsburg Pneumatic Co., Canton, O.

Pneumatic Riveters

Albree, Chester B. Iron Works, 1115 Market, Allegheny, Pa.
Allen, Jno. F. (Percussion & Compression Lever), 370 Gerard av, New York
BETHLEHEM FOUNDRY & MACHINE Co., Front, South Bethlehem, Pa. (See adv. index, end of book)
CHICAGO PNEUMATIC TOOL CO., ("Boyer"), Fisher bldg, Chicago, Ill. (See adv. index & branch offices, end of book)

CLEVELAND PNEUMATIC TOOL CO., ("Jumbo," "Ajax" & "Cleveland"), Cleveland, O. (See adv. index & branch offices, end of book)

CLEVELAND PUNCH & SHEAR WORKS Co., 1306 E 10th st, Cleveland, O. (See adv. index & branch offices, end of book)

DALLETT, THOS. H. CO., York & Sedgely av, Phila., Pa. (See adv. index, end of book)

DAYTON PNEUMATIC TOOL CO., Dayton, O. (See adv. index & branch offices, end of book)

GENERAL PNEUMATIC TOOL CO., ("Shepard" Compression Multiple Power, etc.), Montour Falls, N. Y. (See adv. index & branch offices, end of book)

Hanna Engineering Works, 820 Elston av., Chicago, Ill.

Independent Pneumatic Tool Co. ("Thor"), 1st National Bank bldg, Chicago, Ill.

INGERSOLL-RAND CO., 11 B'way, New York. (See adv. index & branch offices, end of book)

MANHATTAN TOOL CO., care E. W. Bliss Co., 19 Adams, Brooklyn, N. Y.

OLDHAM, GEO. & SON, Frankford, Phila., Pa. (See adv. below)

Pittsburg Pneumatic Co., Canton, O.

Prouty, T. C. Co. (Ltd.), Albion, Mich.

Reliance Pneumatic Tool Co. (Hydro Tank Bridge & Girder), Channing & Franklin avs, St. Louis, Mo.

Slocomb, F. F. & Co. ("Caskey"), Wilmington, Del.

Standard Railway Equipment Co., St. Louis, Mo.

Pneumatic Rock Drills

(See also Pneumatic Plug Drillers.)

CHICAGO PNEUMATIC TOOL CO., Fisher bldg, Chicago, Ill. (See adv. index & branch offices, end of book)

CLEVELAND PNEUMATIC TOOL CO., 6410 Hawthorne av, Cleveland, O. (See adv. index & branch offices, end of book)

INGERSOLL-RAND CO., 11 B'way, New York. (See adv. index & branch offices, end of book)

Keystone Drill Co., Franklin, Pa.

Leyner, J. Geo. Engineering Works Co. ("Leyner"), Littleton, Colo.

SULLIVAN MACHINERY CO. (Diamond Core), Railway Exchange, Chicago, Ill. (See adv. index & branch offices, end of book)

Wickes Bros. ("Murphy's" Little Champlon), 137 Liberty, New York, N. Y.

Wood Drill Works, Paterson, N. J.

Pneumatic Rotary Drills

CHICAGO PNEUMATIC TOOL CO., ("Phoenix," "Keller," "Moffet"), Fisher bldg, Chicago, Ill. (See adv. index & branch offices, end of book)

CLEVELAND PNEUMATIC TOOL CO., ("Cleveland" Breast), 6410 Hawthorne av, Cleveland, O. (See adv. index & branch offices, end of book)

INGERSOLL-RAND CO., 11 B'way, New York. (See adv. index & branch offices, end of book)

Pittsburg Pneumatic Co., Canton, O.

Shaw, C. H. Pneumatic Tool Co., Denver, Colo.

Pneumatic Sand Rammers

CHICAGO PNEUMATIC TOOL CO., ("Chicago," "Keller"), Fisher bldg, Chicago, Ill. (See adv. index & branch offices, end of book)

CLEVELAND PNEUMATIC TOOL CO., 6410 Hawthorne av, Cleveland, O. (See adv. index & branch offices, end of book)

DAYTON PNEUMATIC TOOL CO., ("Green" & "Dayton"), Dayton, O. (See adv. index & branch offices, end of book)

Independent Pneumatic Tool Co. ("Thor"), First Nat'l Bank bldg, Chicago, Ill.

INGERSOLL-RAND CO., 11 B'way, New York. (See adv. index & branch offices, end of book)

Pittsburg Pneumatic Co., Canton, O.

Pneumatic Scaling Hammers

(For Scaling Castings, etc.)

CHICAGO PNEUMATIC TOOL CO., ("Boyer," "Keller"), Fisher bldg, Chicago, Ill. (See adv. index & branch offices, end of book)

CLEVELAND PNEUMATIC TOOL CO., 6410 Hawthorne av, Cleveland, O. (See adv. index & branch offices, end of book)

DAYTON PNEUMATIC TOOL CO., ("Green," "Dayton"), Dayton, O. (See adv. index & branch offices, end of book)

Independent Pneumatic Tool Co. ("Thor"), First Nat'l Bank bldg, Chicago, Ill.

INGERSOLL-RAND CO., 11 B'way, New York. (See adv. index & branch offices, end of book)

MANHATTAN TOOL CO., care E. W. Bliss Co., 19 Adams, Brooklyn, N. Y.

Pneumatic Appliance Co., 150 Nassau, New York, N. Y.

Pneumatic Screen Shakers

Hanna Engineering Works, 820 Elston av, Chicago, Ill.

Pittsburg Pneumatic Co., Canton, O.

Pneumatic Sealing Hammers

INGERSOLL-RAND CO., 11 B'way, New York. (See adv. index & branch offices, end of book)

Pneumatic Staybolt Breakers

Pittsburg Pneumatic Co., Canton, O.

Reliance Pneumatic Tool Co., Channing & Franklin ave, St. Louis, Mo.

Scully Steel & Iron Co., 136 Fulton, Chicago, Ill.

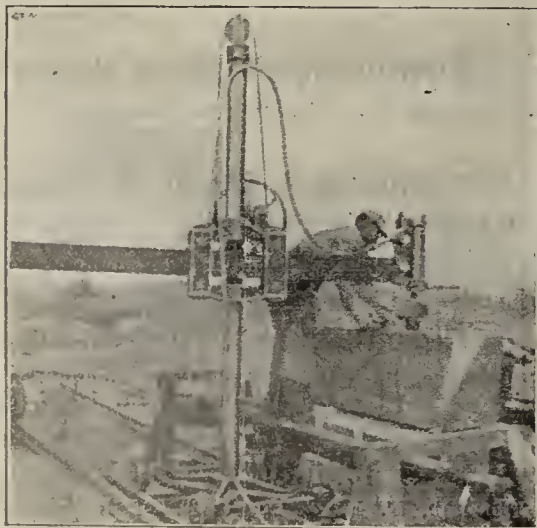
*Pneumatic Staybolt Chucks

CHICAGO PNEUMATIC TOOL CO., Fisher bldg, Chicago, Ill. (See adv. index & branch offices, end of book)

*Pneumatic Staybolt Clippers

CHICAGO PNEUMATIC TOOL CO., Fisher bldg, Chicago, Ill. (See adv. index & branch offices, end of book)

HELWIG MFG. CO., St. Paul, Minn. (See adv. on following page)



OLDHAM SURFACER IN OPERATION

PNEUMATIC TOOLS for CARVING, LETTERING, DRILLING and SURFACING all kinds of Stone. RIVETING, CHIPPING and CALKING HAMMERS for Metal Work

PLUG DRILLS

COMPLETE PNEUMATIC PLANTS.

FOUR CARDINAL POINTS:

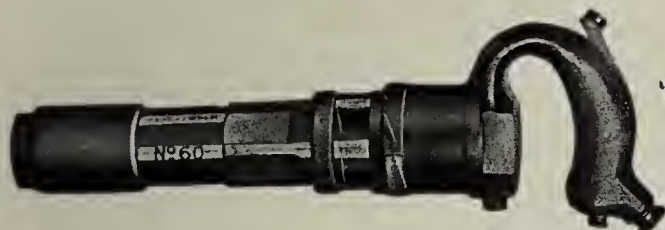
SIMPLICITY, DURABILITY, ECONOMY and LOW COST

Tools sent on approval. Write for Catalogue and Prices.

GEORGE OLDHAM & SON CO.
FRANKFORD, PHILA., PA., U. S. A.

BOYER & KELLER HAMMERS, and BOYER, KELLER & "LITTLE GIANT" DRILLS

are the measure-
ment of standard everywhere, because
they are Strong—Durable—Reliable.



No. 60—Boyer Riveting Hammer



Boyer Chipping
Hammer

"Little Giant"
Drills are
made in
13 sizes

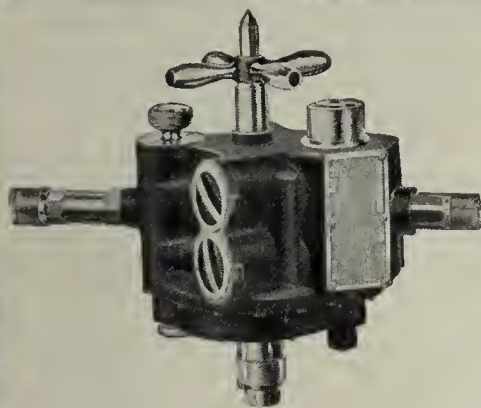
Write for Catalogue
and prices.

Tools sent on trial.

CHICAGO PNEUMATIC TOOL COMPANY

CHICAGO—NEW YORK

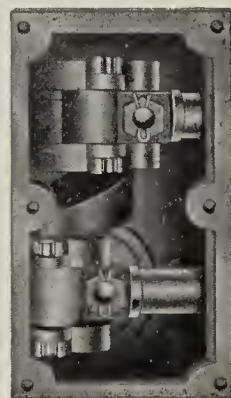
Manufacturers of Air Compressors, Pneumatic Tools and Appliances, Hoists, Elevators, Electric Drills, &c



CLEVELAND AIR DRILLS

The Cylinder Body consists of one piece and
is provided with Hand-hole Opening which
admits of ready access to Crank Chamber

HAS LESS PARTS THAN ANY OTHER FOUR CYLINDER DRILL MADE



ONE-PIECE DUPLEX ROTATING VALVE CONTROLLING ALL FOUR CYLINDERS

THE "CLEVELAND" RIVETER

MOST POWERFUL HAMMER BUILT

WE MAKE
15 SIZES
OF
RIVETING
HAMMERS



WE MAKE
20 SIZES
OF
CHIPPING
HAMMERS

THE CLEVELAND PNEUMATIC TOOL COMPANY

NEW YORK
PITTSBURGH
PHILADELPHIA

CLEVELAND, OHIO

CHICAGO
ST LOUIS
ATLANTA



"CLEVELAND" **AIR HAMMER DRILLS** **ARE "VALVELESS" TYPE**

MADE IN SIZES SUITABLE
FOR ALL CLASSES OF WORK

"AIR FEED ATTACHMENT" AND GRIP-HANDLE ARE
INTERCHANGEABLE ON ALL SIZES OF MACHINES

WE MAKE

RIVETING HAMMERS—CHIPPERS—AIR DRILLS, Etc.

THE CLEVELAND PNEUMATIC TOOL CO.

NEW YORK
PITTSBURGH
PHILADELPHIA

CLEVELAND
OHIO, U. S. A.

CHICAGO
ST. LOUIS
ATLANTA



BOYER AND KELLER FOUNDRY RAMMERS

ALL MODERN FOUNDRIES ARE USING THEM.

THEY ARE ESPECIALLY ADAPTED
TO CONCRETE BLOCK WORK.

SENT ON TRIAL TO RESPONSIBLE
PARTIES AT OUR EXPENSE.

WRITE FOR
CATALOGUE
AND PRICES

are the only successful mechanical rammers ever de-
vised. Thousands in successful operation.

CHICAGO PNEUMATIC TOOL COMPANY

CHICAGO—NEW YORK

Manufacturers of Air Compressors, Pneumatic Tools, Appliances, Hoists, Electric Drills, Etc.



Keller Sand
Rammer
No. 7

Pneumatic Staybolt Cutters

(See also Cutters, Staybolt.)

CHICAGO PNEUMATIC TOOL CO.,
Fisher bldg, Chicago, Ill. (See adv. index
& branch offices, end of book)
Pittsburg Pneumatic Co., Canton, O.
Reliance Pneumatic Tool Co., Channing &
Franklin avs, St. Louis, Mo.
Slocomb, F. F. & Co., Wilmington, Del.
Standard Railway Equipment Co., St. Louis,
Mo.

Pneumatic Stone Carving Tools

CHICAGO PNEUMATIC TOOL CO.,
Fisher bldg, Chicago, Ill. (See adv. index
& branch offices, end of book)
CLEVELAND PNEUMATIC TOOL CO.,
6410 Hawthorne av, Cleveland, O. (See
adv. index & branch offices, end of book)
DALLETT, THOS. H. CO., York &
Sedgley av, Phila., Pa. (See adv. index, end
of book)
INGERSOLL-RAND CO., 11 B'way,
New York. (See adv. index & branch of-
fices, end of book)
KOTTEN, H. G., 120 Liberty, New
York. (See adv. index, end of book)
OLDHAM, GEO. & SON, Fkd., Phila.,
Pa. (See adv. on preceding page)
Pittsburg Pneumatic Co., Canton, O.
Trow & Holden, Barre, Vt.

Pneumatic Stone Cutters' Tools

CHICAGO PNEUMATIC TOOL CO.,
("Boyer," "Keller"), Fisher bldg, Chicago,
Ill. (See adv. index & branch offices, end
of book)
DALLETT, THOS. H. CO., YORK &
Sedgley av, Phila., Pa. (See adv. index,
end of book)
INGERSOLL-RAND CO., 11 B'way,
New York. (See adv. index & branch of-
fices, end of book)
KOTTEN, H. G., 120 Liberty, New
York. (See adv. index, end of book)
MANHATTAN TOOL CO., care E. W.
Bliss Co., 19 Adams, Brooklyn, N. Y.
OLDHAM, GEO. & SON, Fkd., Phila.,
Pa. (See adv. on preceding page)
Pittsburg Pneumatic Co., Canton, O.
Trow & Holden, Barre, Vt.

*Pneumatic Stone Surfacing Machines

CHICAGO PNEUMATIC TOOL CO.
("Keller"), Fisher bldg, Chicago, Ill. (See
adv. index & branch offices, end of book)
DALLETT, THOS. H. CO., York &
Sedgley av, Phila., Pa. (See adv. index,
end of book)
INGERSOLL-RAND CO., 11 B'way,
New York. (See adv. index & branch of-
fices, end of book)
KOTTEN, H. G., 120 Liberty, New
York. (See adv. index, end of book)

MANHATTAN TOOL CO., care E. W.
Bliss Co., 19 Adams, Brooklyn, N. Y.
OLDHAM, GEO. & SON (Portable),
Fkd., Phila., Pa. (See adv. on preceding
page)

*Pneumatic Tool Appliances

CHICAGO PNEUMATIC TOOL CO.,
Fisher bldg, Chicago, Ill. (See adv. in-
dex & branch offices, end of book)

Pneumatic Tool Lubricants

CLEVELAND PNEUMATIC TOOL CO.,
("Cleveland" "Never-Gum"), 6410 Haw-
thorne av, Cleveland, O. (See adv. index
and branch offices, end of book)
Fanning, Jas. L. ("Pneulubric"), 23 S 5th,
Phila., Pa.
Houghton, E. F. & Co., 240 Somerset, Phila.,
Pa.
Zurn, O. F. Co. ("Pneuoxyum"), 23 S 25th,
Phila., Pa.

Pneumatic Tool Lubricators

Carroll, A. M. & Co. ("Pittsburg"), Pittsburg,
Pa.
CHICAGO PNEUMATIC TOOL CO.,
Fisher bldg, Chicago, Ill. (See adv. index
& branch office, end of book)

*Pneumatic Tool Repairing

(Repairing of All Makes.)

DALLETT, THOS. H. CO., 2303 York,
Phila., Pa. (See adv. index, end of book)

Pneumatic Tools

Albree, Chester B., Iron Works, Allegheny, Pa.
CHICAGO PNEUMATIC TOOL CO.,
Fisher bldg, Chicago, Ill. (See adv. index
& branch offices, end of book)
CLEVELAND PNEUMATIC TOOL CO.,
6410 Hawthorne av, Cleveland, O. (See
adv. index and branch offices, etc.)
Columbus Pneumatic Tool Co. ("U. & W." Pist-
on Air Drills), Columbus, O.
DALLETT, THOS. H. CO., York &
Sedgley av, Phila., Pa. (See adv. index,
end of book)
DAYTON PNEUMATIC TOOL CO.,
("Green" & "Dayton"), Dayton, O. (See
adv. index and branch offices, end of book)
Empire Engine & Motor Co., Orangeburgh,
N. Y.
GENERAL PNEUMATIC TOOL CO.
("Shepard"), Montour Falls, N. Y. (See
adv. index and branch offices, end of book)
HELWIG MFG. CO., St. Paul, Minn.,
(See adv. below)
Independent Pneumatic Tool Co. ("Thor"),
First Nat'l Bank bldg, Chicago, Ill.
INGERSOLL-RAND CO., 11 B'way,
New York. (See adv. index & branch of-
fices, end of book)
KOTTEN, H. G., 120 Liberty, New
York. (See adv. index, end of book)
Lee Mfg. Co., Port Huron, Mich.

MANHATTAN TOOL CO., care E. W.
Bliss Co., 19 Adams, Brooklyn, N. Y.
OLDHAM, GEO. & SON, Fkd., Phila.,
Pa. (See adv. on preceding page)
Pittsburg Pneumatic Co., Canton, O.
Pneumatic Appliance Co., 150 Nassau, New
York
Slocomb, F. F. & Co. (Punches and Riveters),
Wilmington, Del.
Standard Railway Equipment Co. ("The Mon-
arch"), St. Louis, Mo.

*Pneumatic Tools & Supplies

HARRISON SUPPLY CO., 5 and 7 Dor-
chester av Extension, Boston, Mass. (See
adv. index, end of book)

Pneumatic Trolley Hoists

Curtis & Co. Mfg. Co., St. Louis, Mo.
Lee Mfg. Co., Port Huron, Mich.

Pneumatic Tubes

Batcheller Pneumatic Tube Co., 500 5th av,
New York
Electro Pneumatic Tube Co., Times bldg, New
York
Lamson Consolidated Store Service Co., 161
Devonshire, Boston, Mass.
Miles, Geo., Co., Winsted, Conn.
Miles Pneumatic Tube Co., 1123 B'way, New
York
Pearsall Pneumatic Tube & Power Co., 500 5th
av, New York, N. Y.
Pneumatic Trans. Co., 1038 Ridge av, Phila-
delphia, Pa.
Reilly, Jas., Repair & Supply Co. (Despatch),
229 West, New York
Taisey Pneumatic Service Co., Indianapolis,
Ind.
Universal Pneumatic Despatch Co., 231 S.
Canal, Chicago, Ill.
Universal Pneumatic Transmission Co., In-
dianapolis, Ind. (Dinspel & Peters, East-
ern Agents), Union sq, New York

Pneumatic Tubes & Caissons for Bridge Piers

Builders' Iron Foundry, Providence, R. I.

Pneumatic Water Supply Sys- tems

(See also Pneumatic Pumping Systems)

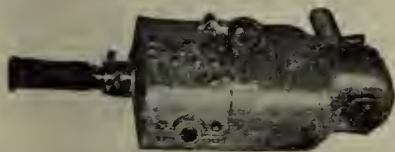
American Pure Water Supply Co., Ashtabula,
Ohio
American Sewage Disposal Co., 643 Old South
bldg, Boston, Mass.
American Water Purification Co., 10 Milk,
Boston, Mass.
Bennett Bros. Co. (Ideal), Lowell, Mass.
Leader Iron Works ("Leader" Hydro-Pneu-
matic), Decatur, Ill.
Pneumatic Water Works Co., 527 5th av, New
York
Woodmanse Mfg. Co., Freeport, Ill.

HELWIG MFG. CO.,

Our
Pneumatic
Hammers



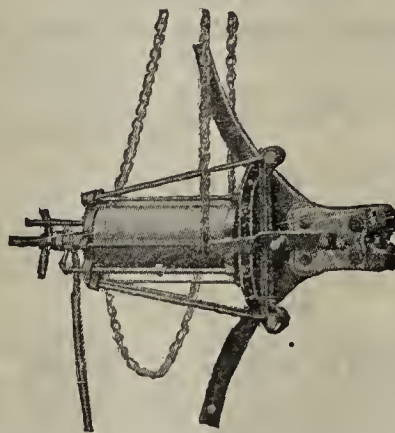
have a minimum of vibration. They are
powerful, speedy, light, short, simple, and
economical in consumption of air.



Reversible Pneumatic Motors.

(End and Central Spindle.) Drill close to corner
or wall and in confined places.

SENT ON TRIAL.



Pneumatic Staybolt Clippers.

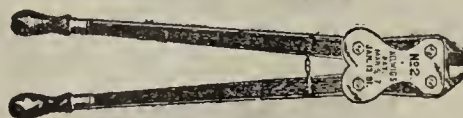
Two sizes, to cut from 1½ inch staybolts and less,
straight and smooth, ready for riveting; have inserted
knives readily replaced at small cost; easy to operate;
durable; weight, 210 and 170 lbs.

St. Paul, Minnesota.



Self-Feeding Flue Expander.

Does away with Sectional Expander, its cost,
and labor to operate same, and indicates when
flue is sufficiently expanded.



Bolt and Rivet Clippers.

Cut close to work. Four sizes, to cut from
¾-inch to nothing.

CATALOGUES ON REQUEST.

DROP FORGING, STAMPING, PRESSING, ETC.

Pneumatic Winches

CHICAGO PNEUMATIC TOOL CO.,
Fisher bldg, Chicago, Ill. (See adv. index
& branch offices, end of book)
Empire Engine & Motor Co. ("Empire"),
Orangeburg, N. Y.

Pneumatic Winding Drums

CHICAGO PNEUMATIC TOOL CO.
Fisher bldg, Chicago, Ill. (See adv. index &
branch offices, end of book.)
Lee Mfg. Co., Port Huron, Mich.

Pneumatic Wood Boring Machines

CHICAGO PNEUMATIC TOOL CO.
("Little Giant," "Keller"), Fisher bldg,
Chicago, Ill. (See adv. index & branch of-
fices, end of book)
CLEVELAND PNEUMATIC TOOL CO.,
6410 Hawthorne av, Cleveland, O. (See
adv. index and branch offices, end of book)
DAYTON PNEUMATIC TOOL CO.,
("Dayton"), Dayton, O. (See adv. index
and branch offices, end of book)
Empire Engine & Motor Co. ("Empire" Wood
Drills), Orangeburg, N. Y.
Independent Pneumatic Tool Co. ("Thor" Re-
versible), First National Bank bldg, Chicago,
Ill.
INGERSOLL-RAND CO., 11 B'way.
New York. (See adv. index & branch of-
fices, end of book)
Pittsburg Pneumatic Co., Canton, O.
Pneumatic Appliance Co., 150 Nassau, New
York, N. Y.
Standard Railway Equipment Co., St. Louis,
Mo.

Pneumatic Yoke Riveters

CHICAGO PNEUMATIC TOOL CO.,
Fisher bldg, Chicago, Ill. (See adv. index
& branch offices, end of book)
DAYTON PNEUMATIC TOOL CO.
Dayton, O. (See adv. index & branch of-
fices, end of book)
INGERSOLL-RAND CO., 11 B'way.
New York. (See adv. index & branch of-
fices, end of book)
Pittsburg Pneumatic Co., Canton, O.
**TERRY & TENCH CO. (Inc.) ("Ter-
ry")**, Lexington av & 131st, New York.
(See adv. index, end of book)

Pockets (Coal)

Hendrick Mfg. Co., Carbondale, Pa.
Howe Scale Co., of Illinois, 1315 Wabash av,
Chicago, Ill.

Pockets (Cotton Waste)

Knapp Mfg. Co., 24 Frankfort, New York

Pointers (Bolt)

(See Machines, Bolt Pointing)

Pointers (Spoke)

Swan, Jas. Co., Seymour, Conn.
Ives, W. A., Mfg. Co., 299 Broadway, New
York, N. Y.

Points (Cultivator)

Harrow Spring Co., Kalamazoo, Mich.
Mason, F. C. & Co. (Spring Tooth, Single &
Double Pointed), St. Johns, Mich.

Points (Drill)

Goodell-Pratt Co. (Plain or Fluted Shank,
Greenfield, Mass.)

Points (Drive Well)

AMERICAN WELL WORKS, Aurora.
Ill. (See adv. index & branch offices, end of
book)
Baker Mfg. Co., Evansville, Wis. (book)
Gowanda Agricultural Works, Gowanda, N. Y.
Mark Mfg. Co., Evanston, Ill.
RUMSEY & CO. (Ltd.), Seneca Falls.
N. Y. (See adv. index and branch offices,
end of book)

Points (Glaziers')

Anchor Nail & Tack Works, S 19th & S Water,
Pittsburg, Pa.
Atlas Tack Co., Fairbaven, Mass.
Austin & Eddy, 117 Broad, Boston, Mass.
Holland Mfg. Co., Baltimore, Md.
Hubbard & McClary, Windsor, Vt.
Humphrey, H. W., Unionville, Conn.
Phillips, E. & Sons, S Hanover, Mass.
Shelton Co., Shelton, Conn.

Points (Grain Drill)

Crescent Forge & Shovel Co., Havana, Ill.
Empire Plow Co., Ensley, Ala., and Cleveland,
Ohio
Mason, F. C. & Co., St. Johns, Mich.
Weyburn Co., Rockford, Ill.

Points (Harrow)

American Knife Co. (Reversible & Detachable),
Baldwinsville, N. Y.

*Points (Lightning Rod)

**UNITED WIRE & SUPPLY CO. (Brass
& Copper)**, 109 Sumner, Providence, R. I.
(See adv. index, end of book)

Points (Plow)

Havana Metal Wheel Co., Havana, Ill.
Moore Plow & Implement Co. ("Moore"),
Greenville, Mich.
Patten & Stafford Co., Canastota, N. Y.

Points (Sparking)

AMERICAN WELL WORKS, Aurora.
Ill. (See adv. index & branch offices, end of
book)
Baker Co. (for Gas & Gasoline Engines, etc.),
Newark, N. J.

Points (Well)

(See Points, Drive Well.)

Pokers (Stove)

Arcade Mfg. Co. ("Siberian" & "Serpentine"),
Freeport, Ill.
Cassidy-Fairbank Mfg. Co., 6106 La Salle,
Chicago, Ill.
Dover Stamping & Mfg. Co., Cambridge, Mass.
Hazel Atlas Glass Co., Wheeling, W. Va.
Ireland & Matthews Mfg. Co., Detroit, Mich.
Wire Goods Co., Worcester, Mass.

Pole Arm Braces

(See Braces, Pole Arm.)

Pole-Crab

Billings & Spencer Co. (Drop Forged), Hart-
ford, Conn.

Pole Protectors

ANDERSON FORGE & MACHINE CO.
271 Guoin, Detroit, Mich. (See adv. in-
dex, end of book)
Hubbard & Co., Pittsburg, Pa.
Lanz, M. & Sons (Protection Strips), 101 S
29th, Pittsburg, Pa.

*Pole Risers

ANDERSON FORGE & MACHINE CO.
271 Guoin, Detroit, Mich. (See adv. index,
end of book)

Pole Steps

American Iron & Steel Mfg. Co., Lebanon, Pa.
AMERICAN STEEL & WIRE CO.,
Rookery bldg, Chicago, Ill. (See adv. index
& branch offices, end of book)
Boston Bolt Co., Boston, Mass.
Cutter, Geo. Co. (Removable), 129 Fulton,
Chicago, Ill.
Hoopes & Townsend Co., 1330 Buttonwood,
Hubbard & Co., Pittsburg, Pa.
Kansas City Bolt & Nut Co., Kansas City, Mo.
Lanz, Matthew & Sons, 101 S 29th, Pittsburg,
Pa.
Michigan Bolt & Nut Works, Detroit, Mich.

Moran Bolt & Nut Mfg. Co., St. Louis, Mo.
North Penn Iron Co., 3rd & Venango, Phila.,
Pa.
Ohio Brass Co., Mansfield, O.
Oliver Iron & Steel Co., Pittsburg, Pa.
Republic Iron & Steel Co., Frick bldg, Annex,
Pittsburg, Pa.

Pole Top Equipment

North Penn Iron Co., 3d & Venango, Phila., Pa.

Poles (Arc Lamp)

Lundin Electric & Machine Co. (Ornamental
Goose Neck), 10 Thacher, Boston, Mass.
Mott, J. L., Iron Works (Iron), 5th av and
17th, New York City

Poles (Curtain)

Berbecker & Rowland Mfg. Co. (Brass, also
Trimmings), Waterbury, Conn.
Judd, H. L. Co. (Wood), 87 Chambers, New
York

Poles (Iron & Steel Flag)

(See also Ties, Poles & Posts.)

American Bridge Co. of New York, 42 B'way,
New York
Blessing, Louis, Jackson, Mich.
Creaghead Engineering Co., 315 Walnut, Cin-
cinnati, Ohio
Illinois Malleable Iron Co., 30 W Monroe, Chi-
cago, Ill.
National Tube Co., Frick bldg, Pittsburg, Pa.
Phoenix Steel Construction Co., Penn av &
3rd, Pittsburg, Pa.
Shelby Steel Tube Co., Frick bldg, Pittsburg,
Pa.
Stover Mfg. Co., Freeport, Ill.
Wisconsin Bridge & Iron Co., Pabst bldg, Mil-
waukee, Wis.

Poles (Iron & Steel Trolley)

(See also Ties, Poles & Posts.)

Anderson, Albert & J. M., Mfg. Co. (Dealers),
287 A. S. B., Boston, Mass.
Columbia Machine Works & Malleable Iron
Co., Atlantic av & Chestnut, Brooklyn,
N. Y.
Electric Railway Equipment Co. (Tubular),
Cincinnati, O.
Falk Company, Milwaukee, Wis.
**GENERAL ELECTRIC CO., Schenec-
tady**, N. Y., & 44 Broad, N. Y. (See adv.
index & branch offices, end of book)
Harrington, Robinson & Co., 272 Franklin, Bos-
ton, Mass.
National Tube Co., Pittsburg, Pa.
NUTTALL, R. D. CO. (Steel only),
Fayette & Garrison pl, Pittsburg, Pa. (See
adv. index, end of book)
Ohio Brass Co., Mansfield, Ohio
Pittsburg Trolley Pole Co., 115 Water, Pitts-
burg, Pa.
Pressed Steel Pole Co., Pittsburg, Pa.
Recording Fare Register Co., New Haven, Conn.
Seamless Tube Co. of America, Frick bldg,
Pittsburg, Pa.
Shelby Steel Tube Co., Frick bldg, Pittsburg,
Pa., & 24 State, New York
Stover Mfg. Co., Freeport, Ill.
Walworth Mfg. Co., 132 Federal, Boston, Mass.
Wisconsin Bridge & Iron Co., Pabst bldg, Mil-
waukee, Wis.

Poles (Pike)

Champion Tool & Handle Works, Evart, Mich.
Dicke Tool Co., Downer's Grove, Ill.
Evart Tool Co. (Ltd.), Evart, Mich.
Gerlach, Peter Co., 1708 Columbus Rd., Cleve-
land, Ohio
Klein, Mathias & Son (Guarded or Plain), 87 W
Van Buren, Chicago, Ill.
Sanford Logging Tool Co., Oshkosh, Wis.
Oshkosh Logging Tool Co., Oshkosh, Wis.

Poles & Posts (Wood)

(See Ties, Poles & Posts, also Poles, Iron &
Steel Trolley)

Polish (Cutlery)

Dill Mfg. & Trading Co. ("Dill," "Defiance"
& "Acme" Plate & Steel Polish), 667 E
163rd, New York

Polish (Furniture)

Bridgeport Wood Finishing Co. ("Eastons"),
New Milford, Conn.
Rath Mfg. Co. ("Ye-Olde-Homestead"), 2d,
Hancock & Laurel, Phila., Pa.

***Polishing Materials**

NORTON CO. ("Alundum"), Worcester,
Mass. (See adv. index and branch of-
fices, end of book)

***Polishing Materials (Aluminum)**

NORTON CO., Worcester, Mass. (See
adv. index and branch offices, end of book)

***Polishing Supplies (Granite & Marble)**

HARRISON SUPPLY CO., 5 & 7 Dor-
chester av Extension, Boston, Mass. (See
adv. index, end of book)

Poppers (Corn)

Middletown Mfg. Co. ("Miami"), Middletown,
Ohio
Utility Mfg. Co. ("Utility"), Sturgis, Mich.

Porcelain Specialties (Electrical, Mechanical, Etc.)

Anderson Porcelain Co., East Liverpool, Ohio
Brian Pottery Co., Trenton, N. J.
Brunt, G. F. Porcelain Works, East Liverpool, O.
Colonial Sign & Insulator Co., Akron, Ohio.
Diamond Porcelain Co., Trenton, N. J.
Electric Porcelain & Mfg. Co., Trenton, N. J.
Empire China Works, 150 Green, Brooklyn, N. Y.
Greenwood Pottery Co., Trenton, N. J.
Hartford Faience Co. (Electrical), Hartford,
Conn.

Imperial Porcelain Works, Trenton, N. J.
National Porcelain Co., Trenton, N. J.
Pass & Seymour (Electrical Only), Solvay,
N. Y.
Standard China Works (Warren Kimble, Prop'r),
Trenton, N. J.

Star Porcelain Co., Trenton, N. J.
Thomas, R. & Sons Co., East Liverpool, O.
Union Electrical Porcelain Works, Trenton, N. J.
Union Porcelain Works, 300 Eckford, Brooklyn,
N. Y.

Porch Columns

(See Columns, Porch, etc.)

Porch Supports

Forest City Fdry. & Mfg. Co. (Cast Iron),
Cleveland, Ohio

Port Lights (Ship)

Delaware Marine Supply Mfg. Co., Wilming-
ton, Del.
Marine Hardware Co., Peabody, Mass.
Marine Mfg. & Supply Co., 158 South, New
York
Turner Brass Works, 68 Michigan, Chicago, Ill.

Portable Houses

American Steel House Co. (Steel), 796 11th av,
New York
AMOS, CHARLES & CO. (Iron), 94 W
Larned, Detroit, Mich. (See adv. index,
end of book)
Dncker Co. (Iron & Wood), 277 B'Way, New
York
Knapp Portable Bldg, 1966 B'way, New York
Manley, Chas. H., Co., Inc., St. John, Mich.
Mershon & Morley Co. (Cottages, Houses,
Cabins, Ranches, Depots, Bathes, Hospitals,
etc., Portable for all uses; also Portable
Double Folding Beds, etc.), Saginaw, Mich.
Phenix Mfg. Co., Humboldt av, cor Center,
Milwaukee, Wis.

PORTABLE CONSTRUCTION CO. (of
all kinds for all purposes), 16 S William,
New York
Portable Construction Co. (Cottages, Houses &
Automobile Garages), 20 S William, N. Y.
Southern Foundry Co. (Steel), Owensboro, Ky.

Springfield Portable Construction Co., 60 Wal-
tham av, Springfield, Mass.
Squires, Henry C. & Son (Houses, Cottages,
Hospitals, etc., without Nail or Screw), 20
Cortlandt, New York

Portable Railways

(See Railways, Industrial & Portable)

Post Caps & Bases

AMOS, CHAS. & CO., 94 W Larned,
Detroit, Mich. (See adv. index, end of
book)

DUPLEX HANGER CO., Cleveland, O.
(See adv. index, end of book)

Goetz Box Anchor Co., New Albany, N. Y.
Lanz, M., & Sons, (and Bases), Carson & 29th,
Pittsburg, Pa.

SMITH, F. P. Wire & Iron Works,
100 Lake, Chicago, Ill. (See adv. index,
end of book)

Post-Hole Diggers

(See Diggers, Post Hole.)

Post Office Equipments

Waddell Woodenware Works Co. (Routing
Tables, Distributing Cases, etc.), Green-
field, O.

Yale & Towne Mfg. Co., 9 Murray, New York
Works, Stamford, Conn.

Posts (Arc Lamp)

Cutter, Geo. Co., 129 Fulton, Chicago, Ill.
Electric Railway Equipment Co., 1938 W 8th,
Cincinnati, O.

Fiske, J. W. Iron Works, 30 Park pl, N. Y.
Mott, J. L. Iron Works, 118 5th av., N. Y.
National Tube Co., Frick bldg, Pittsburg, Pa.
Westervelt, A. B. & W. T., 102 Chambers, N. Y.

Posts (Binding)

Ansonia Electrical Co., Ansonia, Conn.
Bridgeport Brass Co., Bridgeport, Conn., & 19
Murray, N. Y.

Bunnell, J. H. & Co., 20 Park pl, N. Y.
Chicago Nut Co., Chicago, Ill.
Cleveland Automatic Machine Co., Cleve-
land, O.
Cook, H. C. Co., Ansonia, Conn.
Corbin Screw Corporation, New Britain, Conn.
Davis Electric Mfg. Co., Springfield, Mass.
Electric Goods Mfg. Co., 115 Purchase, Bos-
ton, Mass.

Fahnestock Electric Mfg. Co., Brooklyn, N. Y.
Foote, Pierson & Co., N. Y. City.

Hall Scientific Co., Boston, Mass.

Hartford Machine Screw Co., Hartford, Conn.

International Brass & Electric Co. (Brass,
etc.), 76 Beekman, N. Y.

International Instrument Co., 23 Church,
Cambridge, Mass.

Kellogg Switchboard & Supply Co., Congress
& Green, Chicago, Ill.

National-Acme Mfg. Co., Cleveland, O.

Ostrander, W. R. & Co., 23 Dey, N. Y. City.

Patrick, Carter & Wilkins, 22d & Wood,
Phila., Pa.

Peru Electric Mfg. Co., Peru, Ind.

Springfield Machine Screw Co., Springfield,
Mass.

Stanley & Patterson, 27 Warren, N. Y. City.

St. Louis Screw Co., 600 E Clarence, St.
Louis, Mo.

Trumbull Electric Mfg. Co., Plainville, Conn.

Turner Brass Works, 66 Michigan, Chicago,
Ill.

United Metal Mfg. Co., N. Y. City.

Welch, T. F. & Co., Boston, Mass.

Western Electric Co., 259 S Clinton, Chicago,
& 57 Bethune, N. Y.

Wire & Telephone Co. ("Houghton"), Rome,
N. Y.

Posts (Car Bumping)

McCord & Co. ("Gibraltar"), Old Colony bldg,
Chicago, & 24 Broad, New York

Mechanical Mfg. Co. ("Ellis"), Union Stock
Yards, Chicago, Ill.

National Railway Materials Co. ("Hercules"),
90 West, New York

Railroad Supply Co., Bedford bldg, Chicago,
Ill.

Scott Mfg. Co. ("Hercules"), Racine, Wis.

Stowell Mfg. & Foundry Co. (Cast Iron), South
Milwaukee, Wis.

Posts (Drilling)

Irving Mfg. & Tool Co. (J. F. McCoy Co.,
Prop.), 159 Chambers, New York
Lovejoy Tool Works, 90 Ohio, Chicago, Ill.

Posts (Hitching)

AMOS, CHAS. & CO., 94 W Larned,
Detroit, Mich. (See adv. index, end of
book)

Barber Mfg. Co. (Painted & Bronzed), Ash-
tabula, O.

Belmont Iron Works, 22d & Wash'n av, Phila.,
Pa.

BETHLEHEM FOUNDRY & MA-
chine Co., Front, South Bethlehem, Pa.,
& 149 B'way, New York. (See adv. in-
dex, end of book)

Bloomfield Mfg. Co., Bloomfield, Ind.

CHAMPION IRON CO., Kenton, O.
(See adv. index, end of book)

Cheney, S. & Sons (Cast Iron), Manlius, N. Y.

CINCINNATI MFG. CO. (Cast Iron),
1243 W 6th, Cincinnati, O. (See adv. in-
dex, end of book)

Comstock, Geo. S., Mechanicsburg, Pa.

Donaldson Bros., Mt. Clemens, Mich.

Dutton, E. Q. & Co., Cato, N. Y.

Enterprise Foundry & Fence Co., Indianapolis,
Ind.

Gale Mfg. Co., Albion, Mich.

Glen Mfg. Co. (Wrought Steel), Ellwood City,
Pa., & 181 B'way, New York

Gowanda Agricultural Works Co. (Cast Iron),
Gowanda, Pa.

Hayes Pump & Planter Co. (Ornamental Cast
Iron), Galva, Ill.

Illinois Iron & Bolt Co., Carpentersville, Ill.

International Steel Post Co. (Steel), 719 Chest-
nut, St. Louis, Mo.

Kokomo Fence Machine Co., Kokomo, Ind.

National Novelty Corp'n, 826 B'way, New York

Novelty Iron Works, Sterling, Ill.

OHIO STRUCTURAL IRON CO., San-
dusky, O. (See adv. index, end of book)

Peter, F. N. & Bro., Newside, Pa.

SMITH, F. P. WIRE & IRON WORKS,
100 Lake, Chicago, Ill. (See adv. index,
end of book)

Smth Mfg. Co., Waynesboro, Pa.

Stover Mfg. Co., Freeport, Ill.

Swett, A. L. Iron Works (Cast Iron), Medina,
N. Y.

Weller Hardware & Foundry Co. (Cast Iron),
Horseheads, N. Y.

Posts (Hitching, Wood)

Morse Cedar Co. (White Cedar), Saginaw,
Mich.

Posts (Indicator)

Bourbon Copper & Brass Works, 618 Front, Cin-
cinnati, O.

Eddy Valve Co., Waterford, N. Y.

Glamorgan Pipe & Foundry Co., Lynchburg,
Va.

Kennedy Valve Mfg. Co., 57 Beekman, New
York, & Cossackie, N. Y.

Wood, R. D. & Co., 400 Chestnut, Phila., Pa.

Posts (Iron Railing)

Taylor & Co., cor Morgan & Norman avs.,
Brooklyn, N. Y.

Posts (Iron & Steel)

Acme Fence & Foundry Co., New Albany, Ind.

Adams, W. J. (Steel), Joliet, Ill.

American Cable Fence Co., Pekin, Ill.

AMOS, CHAS. & CO., 94 W Larned,
Detroit, Mich. (See adv. index, end of
book)

ANCHOR POST IRON WORKS, 41
Park Row, New York, N. Y. (See adv. in-
dex, end of book)

Avery Stamping Co. ("Never-Break"), Cleve-
land, Ohio

Bayley, Wm. Co., Springfield, O.

BETHLEHEM FOUNDRY & MA-
chine Co. (Cast & Wrought), Front, Beth-
lehem, Pa., & 149 B'way, New York. (See
adv. index, end of book)

Bloomfield Mfg. Co., Bloomfield, Ind.

Bond Steel Post Co. (Steel Fence), Adrian,
Mich.

Childers & Harker (Iron), Carbondale, Ill.

Climax Fence Post Co. (Base made of Con-
crete), 204 Dearborn, Chicago, Ill.

Common Sense Fence Co., Homer, Mich.
 Cornell, J. B. & J. M. Co., 26th & 11th av,
 New York
 De Kalb Fence Co., De Kalb, Ill.
 Dwiglius Wire Fence Co., Anderson, Ind.
 Enterprise Foundry & Fence Co., Indianapolis,
 Ind.
 Harmon, L. B. & Son (Steel), Rosewood, O.
 Illinois Fence Machine Co. (Steel), Leroy, Ill.
 Indestructible Post Co. (With Cement Founda-
 tions for Railroad Fences, etc.), First Natl.
 Bank bldg, Chicago, Ill.
 International Steel Post Co., 719 Chestnut,
 St. Louis, Mo.
 Kokomo Fence Machine Co., Kokomo, Ind.
 Missouri Anchor Fence Co., St. Joseph, Mo.
 Myers, Chas. H. & Co. (Steel), Leroy, Ill.
OHIO STRUCTURAL IRON CO., San-
dusky, O. (See adv. index, end of book)
 Ornamental Iron & Wire Co. (Inc.), Ports-
 mouth, Va.
PETER, F. N. & BRO., Newside, Pa.
 (See adv. index, end of book)
 Railroad Supply Co. (Steel for Railway Fences),
 Bedford bldg, Chicago, Ill.
 Republic Iron & Steel Co., Frick bldg Annex,
 Pittsburgh, Pa.
SMITH, F. P. WIRE & IRON WORKS,
 100 Lake, Chicago, Ill. (See adv. index,
 end of book)
 Schwab, R. J. & Sons Co., Milwaukee, Wis.
 Stowell Mfg. & Foundry Co. (Iron Fence),
 South Milwaukee, Wis.

*Posts (Mooring)

BETHLEHEM FOUNDRY & MA-
chine Co. (Cast Iron), Front, South Beth-
 lehem, Pa., & 149 B'way, New York. (See
 adv. index, end of book)

Posts (Railing, Brass)

Western Brass Mfg. Works (For Office Rail-
 ings, etc.), 21st & Dockwell, Chicago, Ill.
WISCONSIN IRON & WIRE WORKS
 190 E Water, Milwaukee, Wis. (See adv.
 index, end of book)

Posts (Railway Signal)

Buda Foundry & Mfg. Co., Railway Exchange
 bldg, Chicago, Ill. Works Harvey, Ill.

Posts & Ties (Pit)

Pittsburg Pit Post Co., Arrott bldg., Pittsburg,
 Pa.

Potash

Babbitt, B. T., 64 Wash'n, New York
 Billings, Clapp & Co., Boston, Mass.
 Brower, Jno. & Co., 16 Water, N. Y.
 Hirsh, Leon & Son (Pearl Ash), 368 G'wich,
 N. Y.
 International Chemical Co., Camden, N. J.
 Jones, Enos F. Chemical Co. (Pearl Ash), 51
 Jay, N. Y.
 Mallinckrodt Chemical Works, St. Louis, Mo.,
 & 90 William, New York
 N. Y. Chemical Works, 48 W B'way, N. Y.
 N. Y. Lye Co., 308 B'way, N. Y.
 Penna. Salt Mfg. Co., Phila., Pa.
 Powers & Wightman, Phila., Pa.
 Roberts Chemical Co., Niagara Falls, N. Y.
 Roessler & Hasslacher Chemical Co. (Prus-
 siate, Carbonate, Caustic, Chlorate, etc.),
 100 William, N. Y.
 Solvay Process Co. (Caustic), Syracuse, N. Y.
 Talcott, C. H. & Co. (Rock, First Sorts),
 Hartford, Conn.
 Wiarda, Jno. & Co. (Caustic), 273 Green,
 Brooklyn, N. Y.

Potato Coverers & Hillers

Allen, S. L. & Co. (Planet, Jr.), 1017 Market,
 Phila., Pa.
 Caledonia Bean Harvester Works, Caledonia,
 Champion Drill Co., Avon, N. Y.
 Champlain Agricultural Works (Palmer Hoe &
 Coverer), Champlain, N. Y.
 Dorsch, John & Sons (Combination Hiller &
 Digger), Milwaukee, Wis.
 Doughten, H. W. (Darnell's Furrower & Cov-
 erer), Moorestown, N. J.
 Eddy, W. Plow Co. (Coverer), Greenwich, N. Y.
 Empire Plow Co., Ensley, Ala., & Cleve-
 land, O.
 Everts & Andrews (Hiller), Meridian, N. Y.
 Hirsch Bros. (Hillers), Milwaukee, Wis.

Hussey Plow Co., N Berwick, Me.
 Le Roy Plow Co., Le Roy, N. Y.
 Munnsville Plow Co., Munnsville, N. Y.
 New York Agricultural Co., Boonton, N. J., &
 51 Cliff, N. Y. city
 Nowvlock, J. H. & Sons (Coverer & Digger),
 Bloomsburg, Pa.
 Rowell, I. B. & Co. (Hillers), Menominee Falls,
 Wis.
 Sweet, Geo. Mfg. Co. (Hiller), Dansville, N. Y.
 Syracuse Chilled Plow Co., Syracuse, N. Y.
 Yorks, W. R., Honeoye Falls, N. Y.

Potato Smashers

Erie Specialty Co., Erie, Pa.

Pots (Annealing)

Cornell, J. B. & J. M. Co., 26th & 11th av,
 New York
 MacKenzie's Duncan & Sons Co., Trenton, N. J.

Pots (Asphalt & Mastic)

Evans, F. H. Co., 596 Kent av, Brooklyn,
 N. Y.

Pots (Chemical)

BETHLEHEM FOUNDRY & MA-
chine Co. (Cast Iron), Front, South Bethle-
 hem, Pa., & 149 B'way, New York. (See
 adv. index, end of book)
 Caroline Iron Works (Cast Iron Nitre Pots),
 723 S Caroline, Baltimore, Md.
 Coruelli, J. B. & J. M. Co., 26th & 11th av,
 New York

Pots (Fire)

Clayton & Lambert Mfg. Co., Detroit, Mich.
 Fulton Iron Works, Detroit, Mich.
 Hull, J. S. Mfg. Co. ("Hull" Patent for Can-
 ners, etc.), Baltimore, Md.
 Turucr Brass Works, 66 Michigan, Chicago, Ill.
 Wotherspoon, Jas. R. (Tinsmiths), 430 Race,
 Phila., Pa.

Pots (Galvanizing)

(See Kettles Galvanizing.)

Pots (Glass)

Ohio Valley Clay Co., Steubenville, O.
 Pittsburg Clay Pot Co., Allegheny, Pa.

Pots (Glue)

American Electrical Heater Co. (Electric), 123
 State, Detroit, Mich.
GRAMMES, L. F. & SONS, Allentown,
 Pa. (See adv. index, end of book)
 Ironclad Mfg. Co., 204 Varet, Brooklyn, N. Y.
 Stuart & Peterson Co. (Porcelain Lined), Burl-
 ington, N. J.
WILSON, F. CORTEZ & CO., 239 Lake,
 Chicago, Ill. (See adv. index, end of
 book)

Pots (Lead)

Eastwood Wire Mfg. Co., Belleville, N. J.

Pots (Marking)

Geuber & Paeschke Mfg. Co. (Pieced Tin), Mil-
 waukee, Wis.
WILSON, F. CORTEZ & CO., 239 Lake,
 Chicago, Ill. (See adv. index, end of
 book)

Pots (Melting)

CANTON FOUNDRY & MACHINE CO.
 (Cast Iron), Canton, O.
 Crane, W. M. Co. ("Vulcan"), 1133 B'way,
 Glenn Mfg. Co., St. Charles, Ill.
KOVEN, L. O. & BRO., 50 Cliff, New
 York. (See adv. index, end of book)
 Orchard, S. J. (Gas), 49 Frankfort, N. Y.

Pots (Mixing)

Graham, Chas. Chemical Pottery Works
 (Stoneware), 986 Met. av., Brooklyn, N. Y.
KOVEN, L. O. & BRO., 50 Cliff, New
 York. (See adv. index, end of book)

Pots (Nitre)

Larrabee, H. C. & Co. (for Sulphur or Py-
 rites), Baltimore, Md.

*Pots (Paste)

GRAMMES, L. F. & SONS (Stoneware,
 Glazed), Allentown, Pa. (See adv. index,
 end of book)
KOVEN, L. O. & BRO., 50 Cliff, New
 York. (See adv. index, end of book)

Pots (Slag)

Eastwood Wire Mfg. Co., Belleville, N. J.
 Power & Mining Machinery Co., 52 William,
 New York. Works, Cudahy, Wis.

Pots (Soldering)

A. D. Mfg. Co. ("Romeyn" Gasoline), Detroit,
 Mich.
 American Electrical Heater Co. (Electric),
 Detroit, Mich.
 Bernz, Otto, S 13th c S Orange av, Newark,
 Glenn Mfg. Co., St. Charles, Ill. N. J.
 Modern Iron Works, Quincy, Ill.
 Turner Brass Works, 66 Michigan, Chicago, Ill.
 Vulcan Electric Heating Co. ("Vulcan," Elec-
 tric), 71 W Jackson boul., Chicago, Ill.

Pots (Tallow)

Akron Mfg. Co. (Heavy Tin), Akron, O.
 Gem Mfg. Co. ("Gem" Heavy Brazed Steel),
 Pittsburgh, Pa.
KOVEN, L. O. & BRO., 50 Cliff, New
 York. (See adv. index, end of book)
 Noera Mfg. Co. (Nickel Plated Steel), Water-
 bury, Conn.

Pots (Watering)

Atlantic Stamping Co. ("Atlantic," Sprink-
 ling, Galvanized Iron & Tin), Rochester,
 N. Y.
 Dover Stamping & Mfg. Co., Cambridge, Mass.
 Geuber & Paeschke Mfg. Co. (Galvanized
 Iron, etc.), Milwaukee, Wis.
 Wotherspoon, Jas. R. ("Wotherspoon"), 430
 Race, Phila., Pa.

Pounders (Steak)

Arcade Mfg. Co. (or Meat), Freeport, Ill.

Powder Mfrs.

Aetna Powder Co., 143 Dearborn, Chicago, Ill.
 Allentown Non-Freezing Powder Co. ("Tro-
 jan"), Allentown, Pa.
 American Powder Mills (Black & Smokeless),
 233 State, Boston, Mass.
 Anthony Powder Co., Ishpeming, Mich.
 Austin Powder Co., Cleveland, O.
 Cressona Powder Co., Pottsville, Pa.
 Dittmar Powder Works, 102 W. 130th, New
 York
 Du Pont De Nemours, E. I. Powder Co., Wil-
 mington, Del., & 90 West, New York
 General Explosives Co. (Detonating, Black),
 Dover, N. J., & 49 Wall, New York
 Hercules Powder Co., Wilmington, Del.
 Keystone Powder Mfg. Co., Emporium, Pa.
 King Powder Co. (Smokeless), First Nat'l
 Bank bldg, Cincinnati, O.
 Lakeside Powder Co., Shenandoah, Pa.
 Miami Powder Co., Xenia, O.
 Miller, Jas. S., Summeytown, Pa.
 National Powder Co., 353 5th av, New York
 New York Powder Co., 55 Liberty, New York
 O'Hare, M. D., Shenandoah, Pa.
 Rendrock Powder Co., 128 B'way, New York
 Roberts Powder Co., Shenandoah, Pa.
 Robin Hood Powder Co. (Smokeless Gun Pow-
 der, etc.), Swanton, Vt.
 Rockdale Powder Co., York, Pa.
 Shamokin Powder Co., Shamokin, Pa.
 Shunamahoning Powder Mfg. Co., Emporium
 Pa., & Huntington, W. Va.

Powder Mfrs. (Aluminum)

Barrett, M. L. & Co., 219 Lake, Chicago, Ill.
 Kemp, W. H. Co., 165 Spring, New York

*Power Equipments (Gas)

GAS POWER CO., New York. (See
 adv. index, end of book)

Power Transmitting Machinery

(See Machinery, Power Transmitting; also Gears, various kinds; also Hangers, various kinds; also Shafting, various kinds.)

Powers (Dog, Sheep, Etc.)

McDermid, J., Rockford, Ill.
Vermont Farm Machine Co., Bellows Falls, Vt.

Pressed Steel Specialties

Cheswick Mfg. Co., Canton, O.
Gem Mfg. Co., Spruce nr 33d, Pittsburg, Pa.
Hydraulic Pressed Steel Co., E 61st, Cleveland, O.
KOVEN, L. O. & BRO., 50 Cliff, New York. (See adv. index, end of book)
Pangborn, Thos. W. Co. (Mfrs. Agt. & Seamless Drawn), 90 West, New York
Standard Pressed Steel Co., 20th & Clearfield, Phila., Pa.

Presses (Arbor)

Barnes W. F. & Jno. Co., Rockford, Ill.
Bartlett, E. E. (Greenerd), 326 A. Boston, Mass.
Fox Machine Co., Grand Rapids, Mich.
Johnson, Israel H., Jr., Co., 1422 Callowhill, Philadelphia, Pa.
King Machine Tool Co., Clifton & Spring Grove avs., Cincinnati, O.
Lucas Machine Tool Co., Cleveland, O.
Marston, J. M. & Co. (The Greenerd), 226 Ruggles, Boston, Mass.
Niles-Bement-Pond Co., 111 B'way, New York
Wilmarth & Morman, Grand Rapids, Mich.

Presses (Armature)

(See Presses, Power.)

***Presses (Auger & Bit Heading)**

BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)

Presses (Baling & Hay)

(See also Presses, Cotton.)

Alamo Iron Works (Hay), San Antonio, Tex.
Ann Arbor Machine Co. ("Columbia" Hay), Ann Arbor, Mich.
Auto Fedan Hay Press Co. (Auto Self Feed Hay Press), Topeka, Kans.
Reery Mfg. Co. (Hay), Upper Sandusky, O.
Benicia Iron Works (Inc.) (Hay), Benicia, Cal.
Bradley, David Mfg. Co. (Hay), Bradley, Ill.
Bullard, Walter (Hay), Chico, Cal.
Bushnell, Geo. H. Press Co., Thompsonville, Conn.
Cardwell Machine Co. (Hay), Richmond, Va.
Castree & Shaw Co. (Hay), Owosso, Mich.
Chattanooga Implement & Mfg. Co. (Hay), East Chattanooga, Tenn.
Collins, F. F. Mfg. Co. (Hay), San Antonio, Tex.
Collins Plow Co. (Hay, "Ell," "Noxall"), Quincy, Ill.
Colton, G. D. & Co. (Hay), Galesburg, Ill.
Copeland, Henry (Hay), Chattanooga, Tenn.
Dain Mfg. Co. (Hay), Ottumwa, Iowa
Dedericks, P. K. Sons (Hay), Albany, N. Y.
De Loach Mill Mfg. Co. (Hay), Atlanta, Ga.
Dennis, Jno. & Co., Lowell, Mass.
Eagle Mfg. Co. (Hay, etc.), Kansas City, Mo.
Eclipse Hay Press Co. (Hay), Kansas City, Mo.
Ertel, Geo. Co. (Hay), Quincy, Ill.
Famous Mfg. Co. (Cardboard & Metal Scrap), East Chicago, Ind.
Farm Tool Mfg. Co. (Hay, etc.), Carrollton, Mo.
Farrar Lumber Co. (Hay), Dalton, Ga.
Hampton, Thos. F. (Hay), Honeybrook, Pa.
Hasard, Wm. (Hay), Trumansburg, Pa.
Hendricks, D. B. & Co. (Hay, etc.), Kingston, N. Y.
Hercules Lever Jack Co., Irvington, N. J.
Hobbs Mfg. Co., (Waste Baling), Worcester, Mass.
Hyde, Chas. J. (Hay), Meridian, Miss.
Hydraulic Press Mfg. Co., Mt. Gilead, O.
International Harvester Co. of America, 7 Monroe, Chicago, Ill. Osborne Plant, Auburn, N. Y.
Jackson Hay Press & Mfg. Co. (Hay), Denver, Colo.
Kansas City Hay Press Co. (Hay, etc.), Kansas City, Mo.
Kemp's Mfg. Co. (Hay), Kankakee, Ill.

Keystone Mfg. Co. (Hay, etc.), Sterling, Ill.
Kinnard Press Co. (Hay), Minneapolis, Minn.
Kline, Lewis T., Alpena, Mich.
Logeman Bros. Co. (Hydraulic), Milwaukee, Wis.

Lombard Iron Works & Supply Co., Augusta, Ga.
Martin Machine Works, Meridian, Miss.
Maurer, F. X. Co. (Hay), Spencer, Iowa
Mead Hay Press Co. (Hay), Pueblo, Colo.
Miller, Wm. P. Co. (also Rags, Cotton, etc.), 244 Greene, Brooklyn, N. Y.
Minnich Machine Works (For all kinds of Products), Landisville, Lancaster Co., Pa.
Morehouse, L. C. (Hay), San Leandro, Cal.
Nancy Hanks Hay Press & Foundry Co. (Hay), Dalton, Ga.
New Winona Mfg. Co. ("Hay King," Portable), Winona, Minn.
Orion Hay Press Co. (Hay), Orlon, Ill.
Port Huron Engine & Thresher Co., Port Huron, Mich.
Porter, J. B. Co. (Hay), Ottawa, Ill.
Robinson & Co. (Hay), Richmond, Ind.
Rumely, M. Co. (Hay), La Porte, Ind.
Sanders Improved Hay Press Mfg. Co., Dalton, Ga.

Sandwich Mfg. Co. (Hay), Sandwich, Ill.
Scott Mfg. Co. (Hay), Kansas City, Mo.
Sikes Mfg. Co. (Hay), Helena, Ga.
Sinclair-Scott Co., c Wells & Patapsco, Baltimore, Md.
Smith & Sons Mfg. Co. (Hay), Kansas City, Mo.
Spencer, J. A. (Hay), Dwight, Ill.
Strait, H. N. Mfg. Co. ("National," Hay), Kansas City, Mo.
Union Foundry & Machine Co. (Excelsior, Hay, Shavings, etc.), Rochester, N. Y.
Waterville Foundry & Mfg. Co., Waterville, N. Y.
Watkins Hay Press Co., East Point, Ga.
WATSON-STILLMAN CO. (Hydraulic Baling), 26 Cortlandt, New York. (See adv. index, end of book)
Williams Buggy Co. (Hay), Macon, Ga.
Whitehurst, R. W. Co. (Hay), Norfolk, Va.
Woodruff Hardware & Mfg. Co. ("Woodruff," Hay), Winder, Ga.
Whitman Agricultural Co. (Steam, Hand Power, Hay), 6900 S B'way, St. Louis, Mo.

Presses (Bench)

(See also Presses, Power.)

Balrd Machine Co., Oakville, Conn.
BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)
Ferracute Machine Co., Bridgeton, N. J.
NIAGARA MACHINE & TOOL WKS., Buffalo, N. Y. (See adv. index, end of book)
PERKINS MACHINE CO., Warren, Mass. (See adv. index, end of book)
Springfield Machine Tool Co., Springfield, O.

Presses (Bending)

Alliance Machine Co., Alliance, O.
Bethlehem Steel Co. (Hydraulic), South Bethlehem, Pa., & 100 B'way, New York
NIAGARA MACHINE & TOOL WKS., Buffalo, N. Y. (See adv. index, end of book)
WATSON-STILLMAN CO., 26 Cortlandt, New York. (See adv. index, end of book)

Presses (Bicycle Chain)

(See Presses, Power.)

Presses (Bicycle Saddle)

Burroughs, Chas. Co., 141 Commerce, Newark, N. J.

Presses (Blacksmiths' Drill)

(See Drills, Blacksmiths'.)

Presses (Blanking)

(See Presses, Power.)

***Presses (Bliss Inclinable)**

BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)

Presses (Box)

Chase Turbine Mfg. Co. (Automatic), Orange, Mass.
Fischer, E. Machine Works (Clamp Press), 710 Carroll av, Chicago, Ill.

Presses (Brick)

(See Machines, Brick Press.)

Presses (Broaching)

American Can Co., 135 Adams, Chicago, Ill.
BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)
Logeman Bros. Co. (Hydraulic), Milwaukee, Wis.
PERKINS MACHINE CO., Warren, Mass. (See adv. index, end of book)
Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.
WATSON-STILLMAN CO., 26 Cortlandt, New York. (See adv. index, end of book)

Presses (Bullet Lubricating & Sizing)

Ideal Mfg. Co., New Haven, Conn.

Presses (Bumping)

Swaine, F. J. Co., St. Louis, Mo.
West Mfg. Co., 374 7th, Buffalo, N. Y.

Presses (Cam)

(See Presses, Drawing; also Presses, Power)

Presses (Card Cutting)

(See Card Cutting Machines.)

Presses (Car Wheel)

(See also Presses, Hydraulic Wheel.)

Caldwell, E. R. & Co. (Hydraulic), Bradford, Pa.
Dudgeon, Richard, 24 Columbia, New York, N. Y.
Olsen, Tinius & Co., 500 N 12th, Phila., Pa.
Putnam Machine Co., Fitchburg, Mass.
WATSON-STILLMAN CO., 26 Cortlandt, New York. (See adv. index, end of book)

Presses (Cartridge Making)

Ferracute Machine Co., Bridgeton, N. J.
PERKINS MACHINE CO., Warren, Mass. (See adv. index, end of book)

Presses (Ceiling)

(See Presses, Sheet Metal Working.)

Presses (Cheese)

Burrell, D. H. & Co. ("Sprague" Adjustable Continuous Pressure Gang & "Fraser" Gang Presses & Hoops), Little Falls, N. Y.
Creamery Package Mfg. Co., 182 E Kinzie, Chicago, Ill.
Dairy Specialty Co., West Chester, Pa.
Dean Mfg. Co. Seymour, Wis.
Gowanda Agricultural Works Co., Gowanda, N. Y.
Jones, Frank L. (Gang), Utica, N. Y.
Moseley & Stoddard Mfg. Co., Rutland, Vt.
Reid, A. H., Creamery & Dairy Supply Co., Philadelphia, Pa.
Sharples Separator Co. (Gang, "Helmer," "Jespersen" & "Fraser" Patents, etc.), West Chester, Pa.
Vermont Farm Machinery Co., Bellows Falls, Vt.

Presses (Cider)

(See Presses, Wine and Cider.)

Presses (Cloth Cutting)

(See Cloth Cutting Machines.)

Presses (Coining)

(See Coining Machines.)

Presses (Compo Molding)

Andrew, M. L. & Co., 2852 Spring Grove av, Cincinnati, O.

Presses (Concrete)

(See Concrete Hollow Building Block Machinery)

Presses (Continuous)

Anderson, V. D. Co. (Expellers for Oil or Moisture), Cleveland, O.

Presses (Copying)

Bailey Mfg. Co., 159 Leonard, New York
Chicago Scale Co., 296 W Jackson boul, Chicago, Ill.
Fairbanks Co., 186 Lafayette, New York.
Hill, B. B. Mfg. Co., 1020 New Market, Phila., Pa.
Hoe, R. & Co., 504 Grand, N. Y.
Howe Scale Co., Rutland, Vt.
Illinois Iron & Bolt Co., Carpentersville, Ill.
Phila. Novelty Mfg. Co., N 13th & Noble, Phila., Pa.
Pridmore, Henry E. (Automatic), 918 S Rockwell, Chicago, Ill.
Racine Malleable & Wrought Iron Co., Racine, Wis.
Shriver, T. & Co., Harrison, N. J.
Tatum, Samuel C. Co., 414 W Water, Cincinnati, O.

Presses (Cornice)

(See Presses, Sheet Metal Working.)

Presses (Cotton)

Adams, W. T. Machine Co., Corinth, Miss.
American Cotton Co., 82 Beaver, New York
Attalla Foundry & Machine Co., Attalla, Ala.
Cardwell Machine Co., Richmond, Va.
Chickasaw Iron Works, Memphis, Tenn.
Coldwell-Wilcox Co., Newburg, N. Y.
Cole, R. D. Mfg. Co., Newman, Ga.
Continental Gin Co., Bridgewater, Mass., & Birmingham, Ala.
Copeland, Henry, Chattanooga, Tenn.
Cornell, J. B. & J. M. Co., 26th & 11th av, New York
Dederick's, P. K. Sons, Albany, N. Y.
Ertel, George Co., Quincy, Ill.
Famous Mfg. Co., E Chicago, Ind.
Gullett's Gin Co., Amite, La., & 606 Common, New Orleans, La.
Hydraulic Press Mfg. Co., Mt. Gilead, O.
Janney, A. A. & Co., Montgomery, Ala.
Kingsland Mfg. Co. (Steam), St. Louis, Mo.
Liddell Co. (Inc.), Charlotte, N. C.
Livermore Foundry & Machine Co., Memphis, Tenn.
Lombard Iron Works & Supply Co., Augusta, Ga.
Lummas, F. H. Sons Co., Columbus, Ga.
Martin Machine Works, Meridian, Miss.
Maurer, F. & Co., Spencer, Ia.
Means, J. L. Machinery Co., Shreveport, La.
Mecklenburg Iron Works, Charlotte, N. C.
Miller, O. H., Ft. Valley, Ga.
Murray Ginning System Co., Dallas, Tex.
Pusey & Jones Co., Wilmington, Del.
Reading Iron Co., Reading, Pa.
Schofield, J. S. Sons Co., Macon, Ga.
Sinclair-Scott, Baltimore, Md.
Southern Engine & Boiler Works, Jackson, Tenn.
Southern Standard Press Co., Meridian, Miss.
Stedman Foundry & Machine Works, Aurora, Ind.
Thomas-Fordyce Mfg. Co., Little Rock, Ark.
Valk & Murdoch Iron Works, Charlotte, S. C.
Van Winkle, E. Gin & Machine Works, Atlanta, Ga.
Vulcan Works (Steam & Hydraulic), Chester, Pa.
Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.
West Point Iron Works, West Point, Ga.
Whitehurst, R. W. Co., Norfolk, Va.
Wing-Sayle Foundry & Machine Co., Little Rock, Ark.

*Presses (Cotton Bat)

COHOES IRON FOUNDRY & MACHINE CO., Cohoes, N. Y. (See adv. index, end of book)

Presses (Cotton Seed Hull)

Cardwell Machine Co., Richmond, Va.
Copeland, Henry, Chattanooga, Tenn.
Dederick's, P. K. Sons, Albany, N. Y.
Gullett's Magnolia Gin Agency, 606 Common, New Orleans, La., & Amite City, La.
Kingsland Mfg. Co., St. Louis, Mo.
Liddell Co., Charlotte, N. C.
Murray Ginning Process Co., Dallas, Tex.

Southern Standard Press Co., Meridian, Miss.
Valk & Murdoch Iron Works, Charleston, S. C.
Whitehurst, R. W. Co., Norfolk, Va.
Whitman Agricultural Co., St. Louis, Mo.

Presses (Cotton Seed Oil)

Buckeye Iron & Brass Works, Dayton, O.
Bushnell, G. H. Press Co., Thompsonville, Conn.
CODD, E. J. CO., 700-708 S. Caroline, Baltimore, Md. (See adv. index, end of book)
Famous Mfg. Co. (Cotton Seed Hull), East Chicago, Ind.
French Oil Mill Machinery Co., Piqua, O.
Platt Iron Works Co., Dayton, O., & 100 B'way, New York
Shriver, T. & Co., Harrison, N. J.

Presses (Crank Pin)

Alliance Machine Co., Alliance, O.
Dudgeon, Richard, 24 Columbia, New York.
ELMES, CHAS. F. ENGINEERING Works, cor Fulton & N Sangamon, Chicago, Ill. (See adv. index, end of book)
Olsen, Tinius & Co., 500 N 12th, Phila., Pa.
PERKINS MACHINE CO., Warren, Mass. (See adv. index, end of book)
WATSON-STILLMAN CO., 26 Cortlandt New York. (See adv. index, end of book)

Presses (Cutting)

(See Presses, Power.)

*Presses (Dehydrating)

CURRIER, CYRUS & SONS, Newark, N. J. (See adv. index, end of book)

Presses (Dial)

(See Presses, Power.)

Presses (Die)

BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)
Kidder, R. E., Worcester, Mass.
NIAGARA MACHINE & TOOL WKS., Buffalo, N. Y. (See adv. index, end of book)
PERKINS MACHINE CO., Warren, Mass. (See adv. index, end of book)
Seelye Mfg. Co., 118 South, Boston, Mass.
Seybold Machine Co., Dayton, O.
Sheridan, T. W. & C. B. Co. (Bookbinders), 56 Duane, New York
Swaine, F. J. Co., St. Louis, Mo.
WATSON-STILLMAN CO., 26 Cortlandt New York. (See adv. index, end of book)
Wood, R. D. & Co. (Hydraulic), 400 Chestnut, Phila., Pa.

Presses (Die Cutting)

Oswego Machine Works (Neil Gray, jr., prop.), ("Oswego" for Printers & Box Makers, etc.), Oswego, N. Y.

Presses (Disc Notching)

Ferracute Machine Co., Bridgeton, N. J.

Presses (Drawing)

Adriance Machine Works, 254 Van Brunt, Brooklyn, N. Y.
American Can Co., 135 Adams, Chicago, Ill.
Blake & Johnson, Waterbury, Conn.
Baird Machine Co., Oakville, Conn.
BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)
Ferracute Machine Co., Bridgeton, N. J.
Hibbard, Wm. H. Mfg. Co., 79 Washington, Brooklyn, N. Y.
Hickok, W. O. Mfg. Co., Harrisburg, Pa.
Leffler, Charles & Co. (Sheet Metal, etc.), 63 Clymer, Brooklyn, N. Y.
Merriman, A. H., Meriden, Conn.
Michigan Machinery Mfg. Co., Ypsilanti, Mich.
NIAGARA MACHINE & TOOL Works, Buffalo, N. Y. (See adv. index, end of book)
PERKINS MACHINE CO., Warren, Mass. (See adv. index, end of book)
Richard Mfg. Co., Bloomsburg, Pa.
Swaine, F. J. Co., St. Louis, Mo.

Toledo Machine & Tool Co., Toledo, O.
V. & O. Press Co., Brooklyn, N. Y.
Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.
WATSON-STILLMAN CO., 26 Cortlandt, New York. (See adv. index, end of book)
Woonsocket Machine & Press Co., Woonsocket, R. I.

Presses (Drill)

(See Drills, Various Kinds.)

Presses (Drop)

(See also Hammers, Drop.)

Adriance Machine Works, 254 Van Brunt, Brooklyn, N. Y.
American Tube & Stamping Co., Bridgeport, Conn.
Billings & Spencer Co., Hartford, Conn.
Blake & Johnson, Waterbury, Conn.
CANTON FOUNDRY & MACHINE CO. ("Universal" for Metal Ceilings), Canton, O.
Cross & Speirs Machine Co. (Also Portable), Waterbury, Conn.
Ferracute Machine Co., Bridgeton, N. J.
HEARTLEY MACHINE, VARIETY Iron & Tool Works, Toledo, O. (See adv. index, end of book)
Hibbard, Wm. H. Mfg. Co., 79 Washington, Brooklyn, N. Y.
Johnson, Israel H., Jr., Co., 337 N 15th, Phila., Pa.
Keene, Geo. C. & Co., 2327 Montgomery rd, Cincinnati, O.
Leffler, Chas. & Co. (Sheet Metal, Can Makers, etc.), 63 Clymer, Brooklyn, N. Y.
Miner & Peck Mfg. Co., New Haven, Conn.
NIAGARA MACHINE & TOOL WKS., Buffalo, N. Y. (See adv. index, end of book)
Niles-Bement-Pond Co., 111 B'way, New York
Ohl, Geo. A. & Co., 157 Oraton, Newark, N. J.
Oliver, W. W. Mfg. Co. (Jewelers, etc.), 1483 Niagara, Buffalo, N. Y.
PERKINS MACHINE CO., Warren, Mass. (See adv. index, end of book)
Robinson, J. M. Mfg. Co., Cincinnati, O.
Swaine, Fred. J. Co., St. Louis, Mo.
Toledo Machine & Tool Co., Toledo, O.
Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.
Williams, White & Co., Moline, Ill.
Woolly Foundry & Machine Co., Anderson, Ind.
Presses (Embossing)
Adriance Machine Works (Sheet Metal, Leather, Paper, etc.), 254 Van Brunt, Brooklyn, N. Y.
American Can Co. ("Rudolphi" & "Krummel," Toggle & Four Post Toggle), 135 Adams, Chicago, Ill.
Beck, Chas. Paper Co. (Ltd.), 607 Chestnut, Phila., Pa.
BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)
CURRIER, CYRUS & SONS, Newark, N. J. (See adv. index, end of book)
Ferracute Machine Co. (Sheet Metal), Bridgeport, N. J.
GRAMMES, L. F. & SONS (Gold & Wood), Allentown, Pa. (See adv. index, end of book)
HEARTLEY MACHINE, VARIETY Iron & Tool Works, Toledo, O. (See adv. index, end of book)
Hibbard, Wm. H. Mfg. Co., 79 Washington, Brooklyn, N. Y.
Hickok, W. O. Mfg. Co., Harrisburg, Pa.
Hydraulic Press Mfg. Co., Mt. Gilead, O.
Jones, W. E., 14 Water, Brooklyn, N. Y.
Loy & Nawrath, Newark, N. J.
Manville, E. J. Machine Co., Waterbury, Conn.
NIAGARA MACHINE & TOOL WKS., Buffalo, N. Y. (See adv. index, end of book)
Ohl, Geo. A. & Co. (Metal), 157 Oraton, Newark, N. J.
PERKINS MACHINE CO., Warren, Mass. (See adv. index, end of book)
Swaine, F. J. Co. (Sheet Metal), St. Louis, Mo.
Toledo Machine & Tool Co., Toledo, O.
Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.
WATSON-STILLMAN CO., 26 Cortlandt New York. (See adv. index, end of book)

Presses (Engravers' Transfer)

Currier, Cyrus & Sons, Newark, N. J.

E. W. BLISS COMPANY

19 Adams Street, Brooklyn, N. Y.

Owners of the Stiles & Parker Press Co.



"BLISS" INCLINABLE POWER PRESSES—18 sizes, weighing from 500 to 6,500 lbs., as Fly-Wheel Presses, to heavier, as Geared Presses. Adapted for tin, sheet-brass, sheet-steel work, etc.



"BLISS" POWER PRESSES—Nos. 30 to 34, weighing from 2,000 to 5,000 lbs., also made with gearing. Adapted for many operations in the manufacture of pieced tinware, ironware, etc.



"BLISS" HORN AND WIRING PRESSES—16 sizes and several styles, some of them with automatic die slide for work up to 24 inches diameter. Weights, 1,100 to 5,300 lbs.

Correspondence Solicited



MAIN WORKS



PROJECTILE DEPARTMENT



FORGE DEPARTMENT



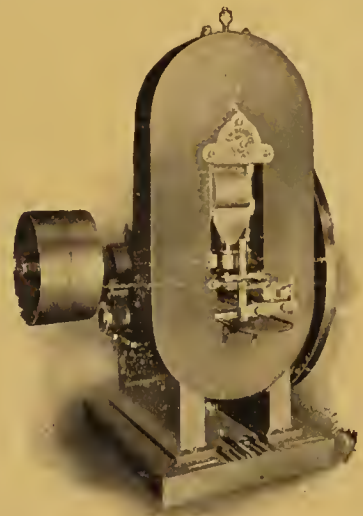
FOUNDRY DEPARTMENT



"STILES" PUNCHING PRESSES—10 sizes, weighing from 525 to 12,000 lbs. Adapted for the manufacture of general hardware, electrical goods, etc.



"BLISS" POWER PRESSES—Nos. 17 to 31 $\frac{3}{4}$, weighing 1,300 to 9,000 lbs. For cutting, stamping, forming, lettering, wiring and combination die work in the manufacture of pieced tinware, tin cans, boxes, elbows, etc.



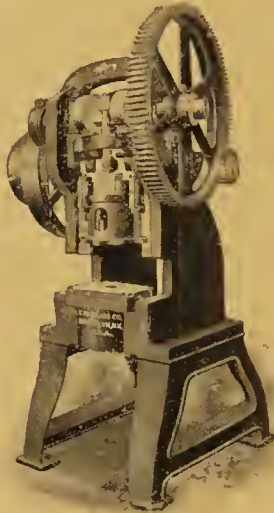
"BLISS" COINING AND EMBOSsing PRESSES—10 sizes and various styles, weighing from 1,200 to 26,000 lbs. and capable of exerting a pressure up to 1,000 tons.

See Next Page

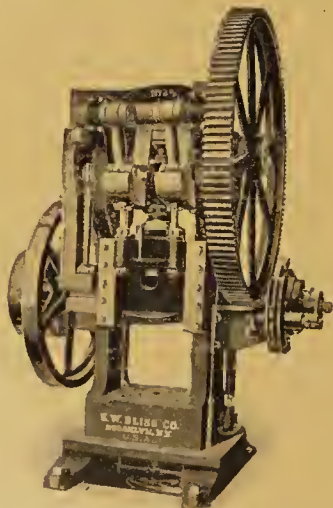
LARGEST BUILDERS OF SHEET METAL WORKING MACHINERY



"BLISS" DOUBLE-ACTION PRESSES—10 sizes, weighing from 750 to 3,800 lbs. Used in cutting and drawing shells in tin, brass, zinc, copper, aluminum and steel.



"BLISS" CAM DRAWING PRESSES—4 sizes, either with straight-sided or overhanging frame, weighing from 5,500 to 10,000 lbs. For cutting and drawing shells from all kinds of sheet metal.



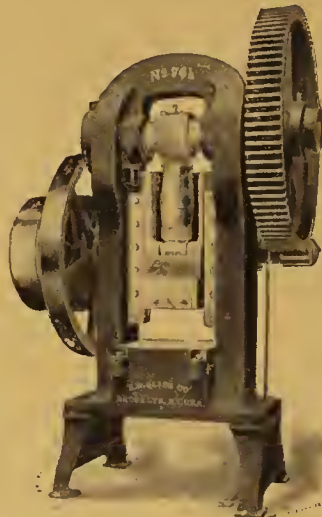
"BLISS" TOGGLE DRAWING PRESSES—Over 15 sizes, weighing from 5,600 to 150,000 lbs. For drawing shells from all kinds of sheet metal.

MAKERS OF

"Bliss-Projectile" Brand

Gears, Pinions, Gear Cases
for All Electric Systems

Particulars on Application



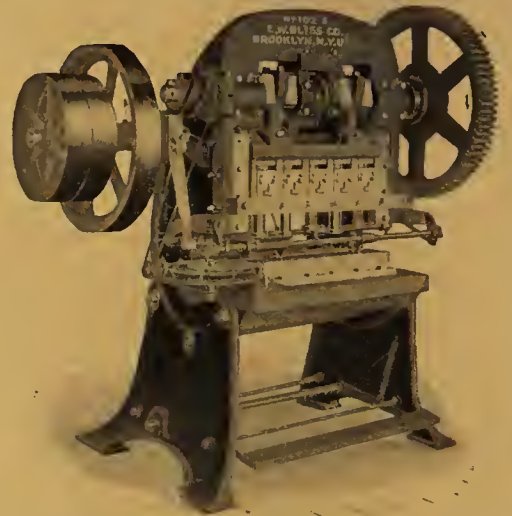
"BLISS" STRAIGHT-SIDED PRESSES—4 sizes, Fly Wheel or Geared, weighing from 5,000 to 24,000 lbs. For trimming drop forgings, heavy stamping, punching, cutting, piercing, etc.



"STILES" AUTOMATIC FRICTION ROLL DROP HAMMERS—12 sizes, with Geared or Gearless Lifter. Adapted for forging or stamping; hammers weighing from 50 to 2,000 lbs. with total weight of from 1,200 to 46,000 lbs.

We also build a large line of Plain and Belt Lift Hammers, weighing from 40 lbs. to 1,700 lbs.; total weight, from 400 lbs. to 17,000 lbs.

DIES.—We make a specialty of Dies for blanking, punching, piercing, shaping, stamping, drawing, embossing, etc., etc., and invite correspondence on the subject.



"BLISS" AUTOMATIC PRESS—For the rapid and economical production of articles which require a series of operations to be performed, such as harness, oil can tops, burner parts, etc. Made with 4 or 5 Punch Slides. Weight, as shown, 5,700 lbs.



"BLISS" DOUBLE-SEAMERS—Over 20 types and sizes, weighing from 275 to 3,000 lbs. For double-seaming the tops and bottoms on articles of square, round, oval and irregular shapes.



FOOT LEVER AND PENDULUM PRESSES—30 sizes and styles, weighing from 70 to 3,000 lbs. For cutting and shaping sheet metal goods; also for jewelers' use.

PRESSES, DIES, SHEARS, DROP HAMMERS AND SPECIAL MACHINERY

"Highest Degree of Excellence" **E. W. BLISS COMPANY** 19 Adams St., Brooklyn, N. Y.

Presses (Excelsior Baling)

(See Presses, Baling & Hay.)

Presses (Fillet)

Fox Machine Co., Grand Rapids, Mich.

Presses (Filter)**ALLIS-CHALMERS CO.**, Milwaukee, Wis.
(See adv. index & branch offices, end of book)

Blymyer Iron Works Co., Spring Grove av & Terrace pl., Cincinnati, O.

BONNOT COMPANY, Canton, O. (See adv. index, end of book)

Bushnell, G. H. Press Co., Thompsonville, Conn.

Carbondale Machine Co., Carbondale, Pa.

Carey, Samuel, 17 State, New York

Cornell, J. B. & J. M. Co., 26th & 11th av., New York

Currier, Cyrus & Sons, Newark, N. J.

Dyer Co., New England bldg., Cleveland, O.

ELMES, CHAS. F. ENGINEERING Works, c Fulton & N Sangamon, Chicago, Ill. (See adv. on following page)

Field Force Pump Co., Elmira, N. Y.

Erhart, Chris., 1237 W 6th, Cincinnati, O.

Guild & Garrison, Kent av & S 10th, Brooklyn, N. Y.

Houchin & Huber, 35 53d, Brooklyn, N. Y.

Hydraulic Press Mfg. Co., Mt. Gilead, O.

Love Bros., Inc. (for Glucose), Aurora, Ill.

Louisville Drying Machinery Co., Louisville, Ky.

Maschinenfabrik Grevenbroich, 76 William, N. Y.

Milne & Smelter Supply Co., Blake & 17th, Denver, Colo.

Payne & Joubert, 423 Carondelet, New Orleans, La.

Perrin, Wm. R. & Co. (For Abattoirs), 46th & Loomis, Chicago, Ill.

Platt Iron Works Co., Dayton, O., & 100 B'way, New York

Pusey & Jones Co., Wilmington, Del.

Royal Machine Co., 61 N. J. R. R. av, Newark, N. J.

SCAIFE, WM. B. & SONS CO., 221 1st av, Pittsburg, Pa. (See adv. index, end of book)

Shrivel, T. & Co., Harrison, N. J.

Simpson Foundry Co., 26 Rodney, Brooklyn, N. Y.

Sperry, D. R. & Co., Batavia, Ill.

Squier, Geo. L. Mfg. Co., Buffalo, N. Y.

Traud, Alex. Co., 5 Maine, Newark, N. J.

Vogt, Henry Machine Co., Louisville, Ky.

Whitney Iron Works Co., 861 Tchoupitoulas, New Orleans, La.

Presses (Finger Feed)*PERKINS MACHINE CO.**, Warren, Mass. (See adv. index, end of book)***Presses (Fish Oil)****CODD, E. J. CO.**, 100-708 S. Caroline, Baltimore, Md. (See adv. index, end of book)***Presses (Flanging)****PERKINS MACHINE CO. (For Heavy Flanging)**, Warren, Mass. (See adv. index, end of book)**Presses (Foot)**

American Can Co. (Pendulum, Floor or Bench), 135 Adams, Chicago, Ill.

Astoria Iron Works (Inc.) (Die Presses for Salmon Canners, etc.), Astoria, Oreg.

Ayars Machine Co. (for Can Making, etc.), Salem, N. J.

Baird Machine Co., Oakville, Conn.

Bender, Ph. J. & Sons, 87 Frankfort, N. Y.

Blake & Johnson, Waterbury, Conn.

BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)

Clough, R. M., Tolland, Conn.

Cook, Thos. W. G., 4 Reade, N. Y.

Cross & Speirs Machine Co., Waterbury, Conn.

Dewes, A., 243 Centre, N. Y.

Draher, John, Waterbury, Conn.

Ferracute Machine Co., Bridgeton, N. J.

HEARTLEY MACHINE, VARIETY Iron & Tool Works Toledo, O. (See adv. index, end of book)

Hibbard, Wm. H. Mfg. Co., 79 Washington, Brooklyn, N. Y.

Johnson, Israel H., Jr., Co., 1424 Callowhill, Phila., Pa.

Jones, W. E., 14 Water, Brooklyn, N. Y.

Leffler, Chas. & Co. (Toggle Lever, Sheet Metal, etc.), 63 Clymer, Brooklyn, N. Y.

Lloyd, John Co., 562 Water, N. Y.

Manville, E. J. Machine Co. (Single), Waterbury, Conn.

Michigan Machinery & Mfg. Co., Ypsilanti, Mich.

NIAGARA MACHINE & TOOL WKS., Buffalo, N. Y. (See adv. index, end of book)

Niles-Bement-Pond Co., 111 B'way, New York

Olson, Tinius & Co., 500 N 12th, Phila., Pa.

PERKINS MACHINE CO., Warren, Mass. (See adv. index, end of book)

Royal Machine Co., 61 N. J. R. R. av, Newark, N. J.

SHUSTER, F. B. CO. (Toggle, Double & Pendulum Lever), New Haven, Conn. (See adv. index, end of book)

Simpson Foundry Co., 28 Rodney, Brooklyn, N. Y.

Slaysman & Co. (Can Makers', etc.), 718 E Pratt, Baltimore, Md.

Stimpson, Edwin B. & Son (Punching & Perforating Leather, etc.), 31 Spruce, N. Y.

Swaine, F. J. Co., St. Louis, Mo.

Toledo Machine & Tool Co., Toledo, O.

Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.

Presses (Forging)See Presses, Drop.
Presses, Hydraulic.
Presses, Power.
Hammers, Drop.
Forging Machines.**Presses (Forming)**

Alliance Machine Co., Alliance, O.

BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)**NIAGARA MACHINE & TOOL WKS.**, Buffalo, N. Y. (See adv. index, end of book)**PERKINS MACHINE CO.**, Warren, Mass. (See adv. index, end of book)

Robinson, J. M. Mfg. Co. (Toggle), Cincinnati, O.

Swaine, F. J. Co., St. Louis, Mo.

Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.

Wood, R. D. & Co. (Hydraulic), 400 Chestnut, Phila., Pa.

Presses (Four Plate Printing)

Gould & Eberhardt (For Bank Notes, Checks, Postage Stamps, etc.), Newark, N. J.

Presses (Friction Clutch)

Baird Machine Co., Oakville, Conn.

Presses (Fruit)

National Novelty Corporation ("Brighton" for Family Use), 826 B'way, New York

Streeter, N. R. & Co. ("Sensible"), Rochester, N. Y.

Presses (Gang Tool)*PERKINS MACHINE CO.**, Warren, Mass. (See adv. index, end of book)

Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.

Presses (Gilding & Stamping)*GRAMMES, L. F. & SON**, Allentown, Pa. (See adv. index, end of book)**Presses (Glass)**

Sommerfeld Machine & Mfg. Co., 220 2d av, Pittsburg, Pa.

Presses (Gun Powder)*WATSON-STILLMAN CO.**, 26 Cortland, New York. (See adv. index, end of book)***Presses (Hand)****PERKINS MACHINE CO.**, Warren, Mass. (See adv. index, end of book)**Presses (Hand, for Rubber Mfrs.)**

Williams Foundry & Machine Co., Akron, O.

Presses (Hay)

(See Presses, Baling & Hay)

Presses (Horizontal)

Adriance Machine Works, 254 Van Brunt, Brooklyn, N. Y.

BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)

Cross & Spiers Machine Co., Waterbury, Conn.

Ferracute Machine Co., Bridgeton, N. J.

PERKINS MACHINE CO., Warren, Mass. (See adv. index, end of book)

Standard Machine Co., Providence, R. I.

Toledo Machine & Tool Co., Toledo, Ohio.

Waterbury-Farrel Foundry & Machine Co., Waterbury, Conn.

Presses (Horn)

Stowell, J. A. Co., Leominster, Mass.

Presses (Horning & Wiring)

Adriance Machine Works, 254 Van Brunt, Brooklyn, N. Y.

BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)

Ferracute Machine Co., Bridgeton, N. J.

Gardner Engineering Co., 136 Liberty, N. Y.

Leffler, Chas. & Co., 61 Clymer, Brooklyn, N. Y.

NIAGARA MACHINE & TOOL WORKS, Buffalo, N. Y. (See adv. index, end of book)**PERKINS MACHINE CO.**, Warren, Mass. (See adv. index, end of book)

Standard Machinery Co., Providence, R. I.

Toledo Machine & Tool Co., Toledo, Ohio.

Torriss-Wold & Co., 66 W Jefferson, Chicago, Ill.

Zeh & Hahnemann, Newark, N. J.

Presses (Hydraulic)

Adamson, Alex., Akron, O.

AITON MACHINE CO., 126 Liberty, New York. Works, Harrison, N. J. (See adv. index, end of book)

Albright, Thos. Co. (For Tankage, Tallow, Leather Belting, Cement, etc.), Goshen, Ind.

Allentown Foundry & Machine Works Co. (Inc.), Allentown, Pa.

Allance Machine Co., Alliance, O.

Bethlehem Steel Co. (Of All Descriptions), South Bethlehem, & 100 B'way, New York

Birmingham Iron Foundry, Derby, Conn.

Boomer & Boschert Press Co., Syracuse, N. Y.

Builders' Iron Foundry, 9 Coddling, Providence, R. I.

Bushnell, G. H. Press Co., Thompsonville, Conn.

Caldwell, E. R. & Co., Bradford, Pa.

Carbondale Machine Co., Carbondale, Pa.

Cardwell Machine Co., Richmond, Va.

Chambersburg Engineering Co., Chambersburg, Pa.

Cole, R. D. Mfg. Co., Newnan, Ga.

Crowell, H. M. Mfg. Co. (Stamping), 18 Boyden pl, Newark, N. J.

CURRIER, CYRUS & SONS, Newark, N. J. (See adv. index, end of book)**DEFIANCE MACHINE WORKS** (Hub & Flange), Defiance, O. (See adv. index, end of book)

Dennis, Jno. & Co. (for Hot Pressing), Lowell, Mass.

Dudgeon, Richard, 24 Columbia, New York

Famous Mfg. Co., E. Chicago, Ind.

ELMES, CHAS. F. ENGINEERING Works, c N Sangamon & Fulton, Chicago, Ill. (See adv. on following page)

French Oil Mill Machinery Co., Piqua, O.

Garrison, A., Foundry Co. (For Rolling Mills, etc.), Pittsburg, Pa.

Holyoke Machine Co., Holyoke, Mass., & Worcester, Mass.

Howard Iron Works (for Leather & Book Binders), Buffalo, N. Y.

Hydraulic Press Mfg. Co., Mt. Gilead, O.

Illinois Iron & Bolt Co., Carpentersville, Ill.

Laidlaw-Dunn-Gordon Co., Cincinnati, O.

Lewis Foundry & Machine Co., Pittsburg, Pa.

Logeman Bros. Co., Milwaukee, Wis.

Lowell Machine Shop, Lowell, Mass.

McLauthlin, Geo. T. Co., 120 Fulton, Boston, Mass.
 Morgan Construction Co., Worcester, Mass.
MORGAN ENGINEERING CO., Alliance, Ohio. (See adv. index, end of book)
 Niles-Bement-Pond Co., 111 B'way, New York
 Olsen, Tinius & Co., 500 N 12th, Phila., Pa.
 Perrin, Wm. R. & Co. (For Ahattoirs), 1500 46th, Chicago, Ill.
 Phila. Drying Machine Co., 6721 Germantown av. Philadelphia, Pa.
 Phila. Roll & Machine Co., S 23d & Wash'n av. Phila., Pa.
 Platt Iron Works Co. (For Oils, Carbon), Dayton, O., and 100 B'way, N. Y.
 Pusey & Jones Co., Wilmington, Del.
 Riedle Bros. Testing Machine Co., 1424 N 9th, Philadelphia, Pa.
 Robertson, John & Co. (For Making Lead Pipe, Block Tin Pipe, Solder Wire, Trap & Bends, Lead Incasing Electric Conductors, Silversmiths and Jewellers' use), 129 Water, Brooklyn, N. Y.
 Royal Machine Co., 61 N. J. R. av, Newark, N. J.
 Scarfe Foundry & Machine Co., 28th & Smallman, Pittsburg, Pa.
 Spence & Rideout, Nashua, N. H.
 Thomas-Albright Co., Goshen, Ind.
 United Engineering & Foundry Co., Pittsburg, Pa.
 United States Rapid-Fire Gun & Power Co. (For Heavy Forging, Drawing, Stamping, Rubber Presses, etc.), Derby, Conn.
 Vulcan Iron Works (Hand Power), Fulton & Irving, Milwaukee av, Chicago, Ill.
 Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.
WATSON-STILLMAN CO., 26 Cortlandt New York. (See adv. index, end of book)
 West Penn Foundry & Machine Co., Avonmore, Pa.
 Williams Foundry & Machine Co. (For Rubber Goods), Akron, O.
 Williams, White & Co. (For Gun, Carriages & Other Work), Moline, Ill.

Presses (Hydraulic Crank Pin)

WATSON-STILLMAN CO., 26 Cortlandt New York. (See adv. index, end of book)
 Wood, R. D. & Co. (Portable), 400 Chestnut, Phila., Pa.

Presses (Hydraulic Flanging)

(See also Flanging Machines.)

Alliance Machine Co., Alliance, O.
 Bethlehem Steel Co., South Bethlehem, Pa., & 100 B'way, New York
 Chambersburg Engineering Co., Chambersburg, Pa.
ELMES, CHAS. F. ENGINEERING Works, N Sangamon & Fulton, Chicago, Ill. (See adv. below)
MORGAN ENGINEERING CO., Alliance, O. (See adv. index, end of book)
 Niles-Bement-Pond Co., 111 B'way, New York
 Wickes Bros., Saginaw, Mich.
 Wood, R. D. & Co., 400 Chestnut, Phila., Pa.

Presses (Hydraulic Forging)

(See also Forging Machines.)

Alliance Machine Co., Alliance, O.
 Bethlehem Steel Co., South Bethlehem, Pa., & 100 B'way, New York
 Chambersburg Engineering Co., Chambersburg, Pa.
 Morgan Construction Co., Worcester, Mass.
MORGAN ENGINEERING CO., Alliance, O. (See adv. index, end of book)
 Niles-Bement-Pond Co., 111 B'way, New York
 Phila. Roll & Machine Co., S 23d & Wash'n av. Phila., Pa.
WATSON-STILLMAN CO., 26 Cortlandt New York. (See adv. index, end of book)

Presses (Hydraulic, Four Column)

Wood, R. D. & Co., 400 Chestnut, Phila., Pa.

*Presses (Hydraulic Lead Pipe)

ELMES, CHAS. F. ENGINEERING Works, c Fulton & N Sangamon, Chicago, Ill. (See adv. below)

*Presses (Hydraulic Leather Belting)

ELMES, CHAS. F. ENGINEERING Works, c Fulton & N Sangamon, Chicago, Ill. (See adv. below)

*Presses (Hydraulic Macaroni)

ELMES, CHAS. F. ENGINEERING Works, cor Fulton & N Sangamon, Chicago, Ill. (See adv. below)

Presses (Hydraulic Pipe Bending)

Wood, R. D. & Co., 400 Chestnut, Phila., Pa.

Presses (Hydraulic Portable)

ELMES, CHAS. F. ENGINEERING Works, c Fulton & N Sangamon, Chicago, Ill. (See adv. below)
 Vulcan Iron Works, Fulton & Irving av, Chicago, Ill.
 Wood, R. D. & Co., 400 Chestnut, Phila., Pa.

Presses (Hydraulic Pulley)

Bethlehem Steel Co., South Bethlehem, Pa., & 100 B'way, New York

Presses (Hydraulic Rubber Vulcanizing)

ELMES, CHAS. F. ENGINEERING Works, N Sangamon & Fulton, Chicago, Ill. (See adv. below)
 Farrel Foundry & Machine Co., Ansonia, Conn.
 Hydraulic Press Mfg. Co., Mount Gilead, O.

Presses (Hydraulic Spring Bending)

Wood, R. D. & Co., 400 Chestnut, Phila., Pa.

Presses (Hydraulic Wheel)

Bethlehem Steel Co., South Bethlehem, Pa., & 100 B'way, New York
 Caldwell, E. R. & Co., Bradford, Pa.
 Chambersburg Engin'g Co., Chambersburg, Pa.
DEFIANCE MACHINE WORKS, Defiance, O. (See adv. index, end of book)
 Dudgeon, Richard, 24 Columbla, New York, N. Y.
ELMES, CHAS. F. ENGINEERING Works c Fulton & N Sangamon, Chicago, Ill. (See adv. below)
 Niles-Bement-Pond Co., 111 B'way, New York
 Phila. Roll & Machine Co., S 23d & Wash'n av. Phila., Pa.
 Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Phila., Pa.
WATSON-STILLMAN CO., 26 Cortlandt, New York. (See adv. index, end of book)
 Zelnicker, Walter A. Supply Co. ("Zelnicker" Portable), 408 N 4th, St. Louis, Mo.

Presses (Hydrostatic Wheel)

Bentel & Margedant Co. (Also Wheel Box), Hamilton, O.
 Niles-Bement-Pond Co., 111 B'way, New York

*Presses (Inclinable)

BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)
 Michigan Mach'y & Mfg. Co., Ypsilanti, Mich.
PERKINS MACHINE CO., Warren, Mass. (See adv. index, end of book)

*Presses (Jute)

MERRILL BROS., 465 Kent av., Brook- lyn, N. Y. (See adv. index, end of book)

Presses (Knuckle Joint)

BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)
 Boomer & Boschert Press Co., Syracuse, N. Y.
 Bushnell Press Co., Thompsonville, Conn.
 Perrin, Wm. R. & Co., 1500 46th, Chicago, Ill.

Presses (Lard & Tallow)

Boomer & Boschert Press Co., Syracuse, N. Y.
 Donaldson Bros., Mt. Clemens, Mich.
 Enterprise Mfg. Co. of Pa., N 3rd & Dauphin, Phila., Pa.
 Johnson Fdry. & Mach. Wks. ("Yale"), Battle Creek, Mich.
 Landers, Frary & Clark, New Britain, Conn.
 Murray Iron Works Co., Burlington, Ia.
 Silver Mfg. Co., Salem, O.

*Presses (Lead, for Cable Covering)

AITON MACHINE CO., 126 Liberty, New York, & Harrison, N. J. (See adv. index, end of book)

HYDRAULIC PRESSES FOR ALL PURPOSES

HYDRAULIC PUMPS

HYDRAULIC VALVES

HYDRAULIC FITTINGS

HYDRAULIC ACCUMULATORS

BORING BARS

SPECIAL MACHINERY

Linseed and Corn Oil Mills

Crank Pin Presses

Macaroni Presses

Leather Belting Presses

Vulcanizing Presses

Lead Pipe and Solder Presses

Wheel Presses

Charles F. Elmes Engineering Works, Inc.

Corner Fulton and Sangamon Sts.

CHICAGO, U. S. A.

ESTABLISHED 1861

PERKINS POWER PRESSES

BUILDERS OF

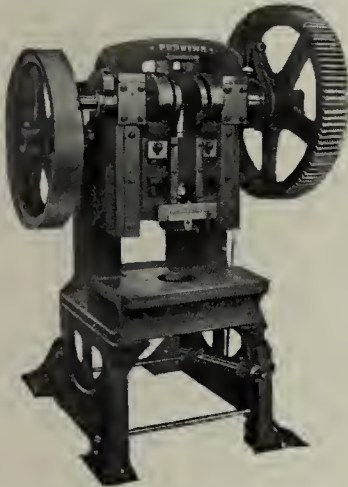
All Kinds of POWER PRESSES

FOR THE SHEET METAL TRADE

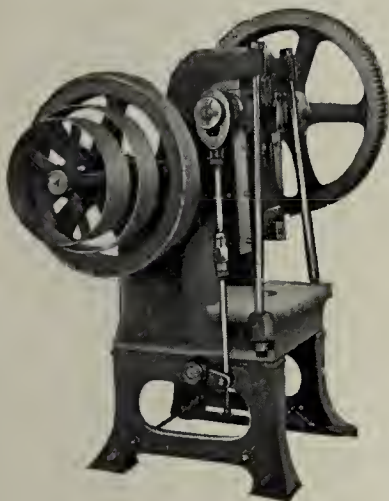
NOTHING TOO LARGE
FOR OUR FACILITIES



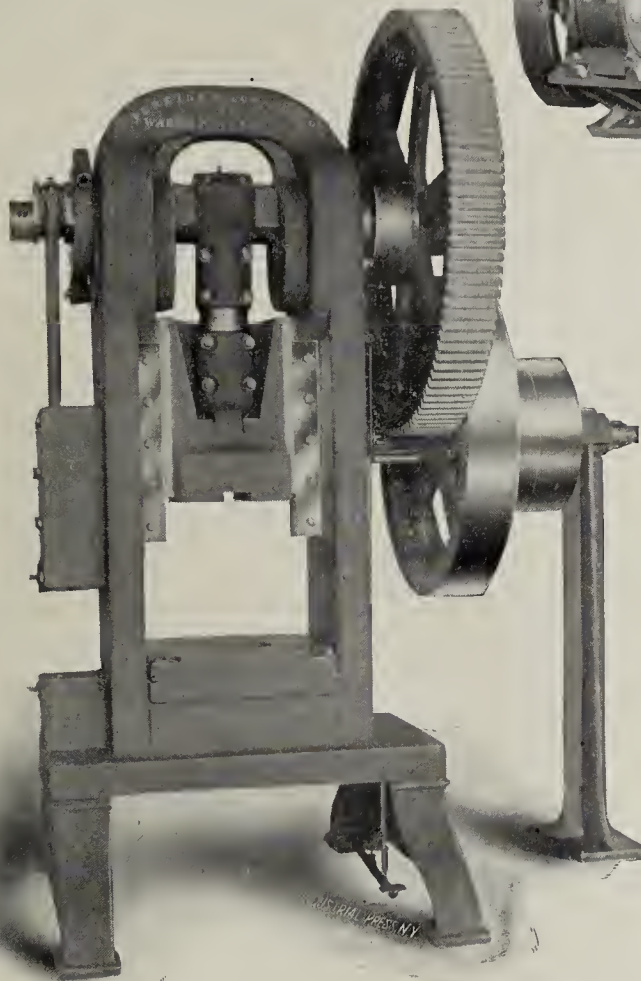
Model A—Dial Feed. Great production producer. All sizes.



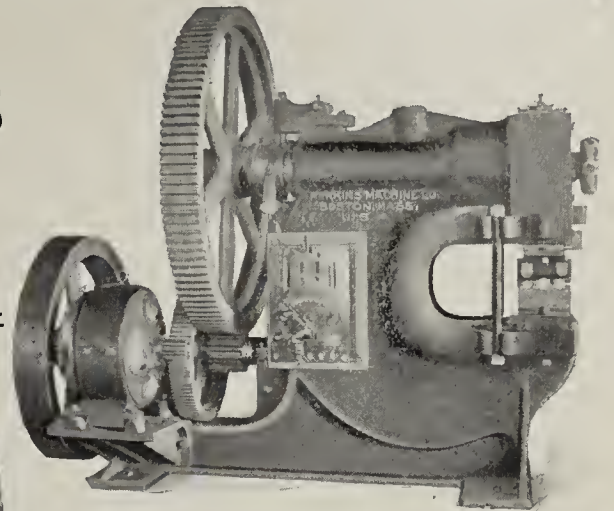
Model D A—Double acting. Reduces cost. All sizes.



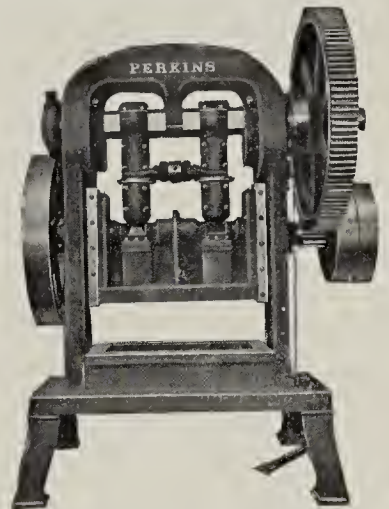
Model A—Long Stroke Presses. All sizes, up to 10,000 lbs.



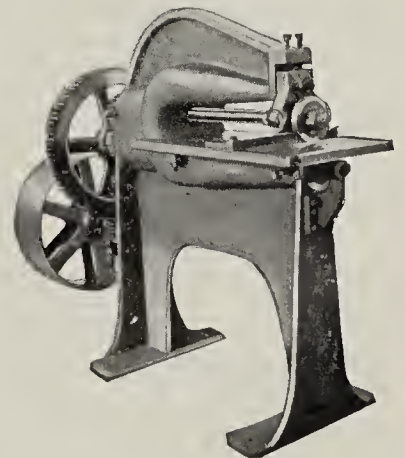
Model I—Drop Forged Trimming Presses
Any Weight or Size.



Builders of all types of
PUNCHES and SHEARS.



Model I—All sizes and weights.



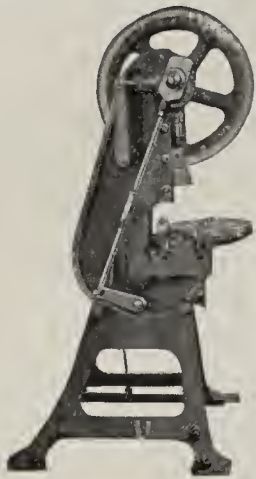
Rotary Shears. All types and kinds.

SEND FOR CATALOGUE, FREE.

PUT YOUR PRESS WANTS
UP TO PERKINS

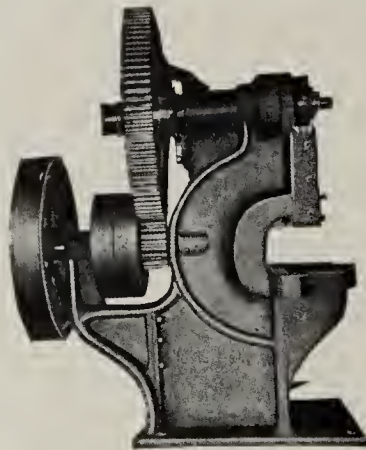
PERKINS MACHINE CO., 8 Perkins Street, WARREN, MASS.

PERKINS POWER PRESSES



Model B. Built in all sizes up to 12,000 lbs.

P



Model E. All sizes up to 15,000 lbs.

P

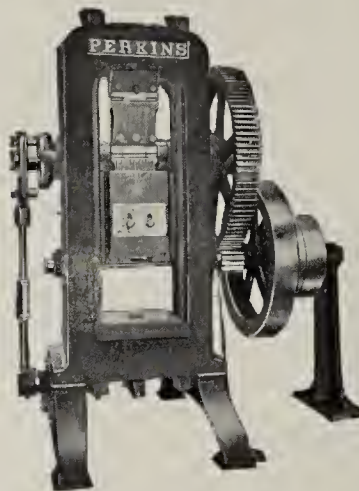


Crimson Beauty. Price \$60.00. 100 in process of construction at all times.



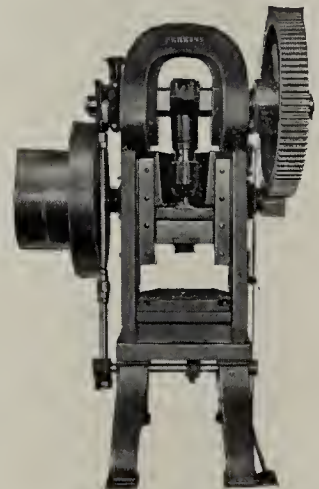
Arch Presses up to 6,500 lbs.

P

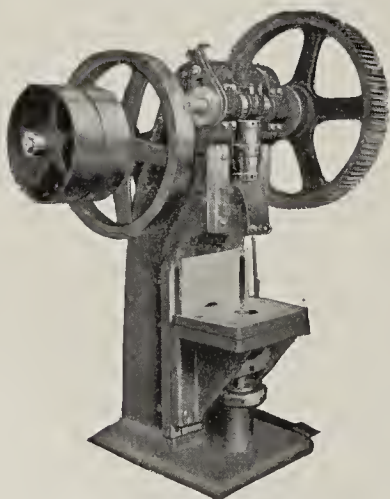


350 ton Embossing Press. Built in sizes up to 1,000 tons, 150 000 lbs.

P

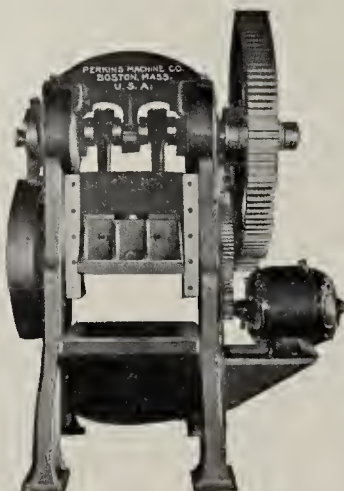


Model I. With knock-out attachment.



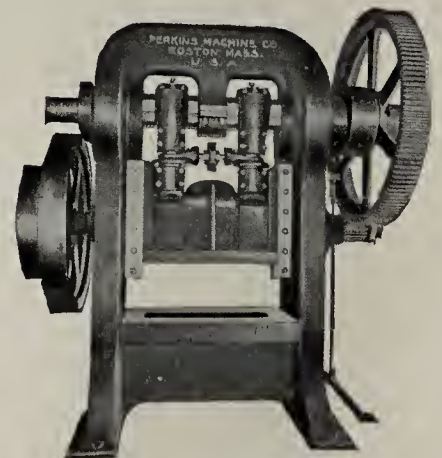
Model G. Built in all sizes up to 13 500 lbs.

P



Model H. All sizes up to 150,000 lbs.

P



Model I. All sizes up to 165,000 lbs.

PERKINS MACHINE COMPANY, 8 Perkins St., Warren, Mass.

Presses (Leather)

Randall & Co. (For Harness & Horse Collar Mfrs., etc.), Cincinnati, O.

Presses (Lever)

BLISS, E. W. CO. (Foot & Hand), 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)

Leffler, Chas. & Co. (Ontable, Toggle Lever Foot), 63 Clymer, Brooklyn, N. Y.

NIAGARA MACHINE & TOOL WKS., Buffalo, N. Y. (See adv. index, end of book)

PERKINS MACHINE CO., Warren, Mass. (See adv. index, end of book)

Perrin, Wm. R. & Co., 1500 46th, Chicago, Ill.

Philadelphia Drying Machinery Co., 6721 Germantown av., Phila., Pa.

SHUSTER, F. B. CO., New Haven, Conn. (See adv. index, end of book)

Swaine, F. J. Co., St. Louis, Mo.

Woonsocket Machine & Press Co., Woonsocket, R. I.

Presses (Linseed Oil)

Buckeye Iron & Brass Works, Dayton, O.

Bushnell, G. H. Press Co., Thompsonville, Conn.

French Oil Mill Machinery Co., Piqua, O.

Hydraulic Press Mfg. Co., Mt. Gilead, O.

Platt Iron Works Co., Dayton, O., & 100 B'way, New York

Staubach, Baldwin, 652 E 12th, N. Y.

Presses (Lithographers')

Aluminum Press Co., 41 Park Row, New York

Babeock Printing Press Mfg. Co., 38 Park Row, New York

Campbell Printing Press & Mfg. Co., 1 Madison av., New York

Cottrell, C. B. Sons Co., 41 Park Row, New York

Hoe, R. & Co., 504 Grand, New York

Howard Iron Works, Buffalo, N. Y.

Trinity Press Co., 71 B'way, New York

Presses (Lock Corner Die)

Nazel Engineering & Machine Works (For Paste Board Folding Box Machinery), 1042 Ridge av., Phila., Pa.

Presses (Mandrel)

(See Presses, Arbor.)

Presses (Molding)

(See Sand Molding Machines.)

Presses (Multiple Punching)

Michigan Machinery Mfg. Co., Ypsilanti, Mich.

*Presses (Nut)

PERKINS MACHINE CO. (Hot and Cold), Warren, Mass. (See adv. index end of book)

Presses (Peanut Oil)

Buckeye Iron & Brass Works, Dayton, O.

Bushnell, G. H. Press Co., Thompsonville, Conn.

Presses (Perforating)

BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)

NIAGARA MACHINE & TOOL WKS., Buffalo, N. Y. (See adv. index, end of book)

Stimpson, Edwin B., & Son, 31 Spruce, New York

Presses (Pipe Straightening)

United Engineering & Foundry Co. (For 6 to 12 inch Pipe), Farmers' Bank bldg, Pittsburgh, Pa.

Presses (Power)

Adriance Machine Works (Sheet Metal, Wire, Paper, etc.), 254 Van Brunt, Brooklyn, N. Y.

Alliance Machine Co. (Armature, Forging, Punching, etc.), Alliance, O.

American Can Co. ("Rudolph & Krummel" Patterns for Can Makers, etc.), 135 Adams, Chicago, Ill.

Ams Max Machine Co. (For Can Makers), Mt. Vernon, N. Y.

Astoria Iron Works (Inc.) (Die Presses for Salmon Canneries, etc.), Astoria, Ore.

Atlas Mfg. Co., Fostoria, O.

Automatic Machine Co., Bridgeport, Conn.

Ayars Machine Co. (for Can Making, etc.), Salem, N. J.

Baird Machine Co., Oakville, Conn.

Bender, Ph. J. & Sons, 87 Frankfort, N. Y.

Bethlehem Steel Co., South Bethlehem, Pa., & 100 B'way, New York

Birch-Birch (Blanking, for Sheet Metal), Crawfordsvillie, Ind.

Blake & Johnson, Waterbury, Conn.

BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)

Bushnell, G. H. Press Co., Thompsonville, Conn.

Cady Machine Co. (Power), Williamson bldg, Cleveland, O.

CLEVELAND PUNCH & SHEAR WORKS Co., 1306 E 40th, Cleveland, O. (See adv. index, end of book)

Cleveland Stamping & Tool Co., Cleveland, O.

Clough, R. M., Tolland, Conn.

COLLINS, EMMONS, 20 W Randolph, Chicago, Ill.

Consolidated Press & Tool Co. (Self-Oiling Bearings, Inclinable Open Back Type), 98 N Clinton, Chicago, Ill.

Cook, Henry C. Machine Co., Ansonia, Conn.

Cook, Thos. W. G., 4 Reade, N. Y.

Coulter & McKenzie Machine Co., Bridgeport, Conn.

Cross & Speirs Machine Co. (Rotary), Waterbury, Conn.

Curtis & Marble Machine Co., Worcester, Mass.

De Beauvals, Jules, E 155th n Elton av, N. Y.

Dewes, A. (Steam), 243 Centre, N. Y.

Draher, John, Waterbury, Conn.

Ferracute Machine Co., Bridgeton, N. J.

Frankford Machine Works (Forge & Punch), Frankford, Phila., Pa.

Garrison, A., Foundry Co. (For Rolling Mills, etc.), Pittsburg, Pa.

Gaug, Wm. E. Co., Cincinnati, O.

Gohike, Theo., 12th & Locust, St. Louis, Mo.

Griswold, Geo. M., 35 Union, New Haven, Conn.

HEARTLEY MACHINE, VARIETY Iron & Tool Works, Toledo, O. (See adv. index, end of book)

Hibbard, Wm. H. Mfg. Co., 79 Washington, Brooklyn, N. Y.

Hiekok, W. O. Mfg. Co. (Toggle), Harrisburg, Pa.

Hilles & Jones Co., Wilmington, Del.

Humphrey Machine Co. (Aiso Hand), Keene, N. H.

Hydraulic Press Mfg. Co., Mt. Gilead, O.

Jones, W. E., 14 Water, Brooklyn, N. Y.

Leffler, Chas. & Co. (Sheet Metal Cans, Tinware, etc., in ten sizes), 63 Clymer, Brooklyn, N. Y.

Legeman Bros. Co. (Cutting), Milwaukee, Wis.

Long & Alistatter Co. (Belt, Motor or Steam Driven), Hamilton, O.

Loyd, John Co., 558 Water, New York

Manville Bros. Co., Waterbury, Conn.

Manville, E. J. Machine Co. (Single & Double Acting), Waterbury, Conn.

Merriman, A. H. (Cutting, Punching & Stamping Sheet Metal), Meriden, Conn.

Michigan Machinery Mfg. Co. ("Michigan"), Ypsilanti, Mich.

Michigan Mfg. Co., Ypsilanti, Mich.

Miner & Peck Mfg. Co., New Haven, Conn.

MORGAN ENGINEERING CO., Alliance O. (See adv. index, end of book)

New Doty Mfg. Co., Janesville, Wis.

NIAGARA MACHINE & TOOL WKS., Buffalo, N. Y. (See adv. index, end of book)

Niles-Bement-Pond Co., 111 B'way, New York

Nilson, A. H. Machine Co., Bridgeport, Conn.

Ohls, Geo. A. & Co. (For Sheet Metal Workers), 157 Oraton, Newark, N. J.

Olsen, Tinius & Co., 500 N 12th, Phila., Pa.

PERKINS MACHINE CO. (Punching, Forging, Dial, etc.), Warren, Mass. (See adv. index, end of book)

Perrin, Wm. R. & Co., 1500 46th, Chicago, Ill.

Richard Mfg. Co., Bloomsburg, Pa.

Robinson, J. M. Mfg. Co., 2d & Central av, Cincinnati, O

Sheridan, T. W. & C. B. Co. (Cutting), 56 Duane, New York, & 413 Dearborn, Chicago, Ill.

Stimpson Foundry Co., 28 Rodney, Brooklyn, N.Y.

Slaysman & Co. (Can Makers', etc.), 718 E Pratt, Baltimore, Md.

Springfield Machine Tool Co., Springfield, Ohio

Standard Machinery Co., Providence, R. I.

Stimpson, Edwin B. & Son (Punching & Perforating), 31 Spruce, New York

STRONG, CARLISLE & HAMMOND Co., 333-344 Frankfort av., N W, Cleveland, O. (See adv. index, end of book)

Sutton, C. E. Co., Toledo, O.

Swaine, Fred J. Co. (Punching), 7th & O'Fallon, St. Louis, Mo.

Toledo Machine & Tool Co. (Double Geared), Toledo, O.

TOUHY BROS. CO., 95 Liberty, New York. (See adv. index, end of book)

V. & O. Press Co., Glendale Station, L. I., N. Y.

Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.

Waterbury Machine Co. (Presses & Dies for Brass Goods), Waterbury, Conn.

Wheeler, Frank & Son, Meriden, Conn.

Wickes Bros., Saginaw, Mich.

Williams, White & Co., Moline, Ill.

Woolley Foundry & Machine Co., Anderson, Ind.

*Presses (Power, Punching, Shearing & Forging)

PERKINS MACHINE CO., Warren, Mass. (See adv. index, end of book)

Presses (Printing)

(See Printing Presses & Machinery.)

Presses (Printing & Embossing)

Boston Printing Press & Machinery Co. (Embossing & Half Tone Work), 176 Federal, Boston, Mass.

National Machine Co. (Cutting & Breasting), Hartford, Conn.

Presses (Pulley)

Bethlehem Steel Co., South Bethlehem, Pa., & 100 B'way, New York

Presses (Punch, Saw Teeth Cutting)

United States Rapid-Fire Gun & Powder Co., Derby, Conn.

Presses (Punching)

(See Presses, Power.)

Presses (Punching, Hand Power)

Wiley & Russell Mfg. Co. ("Lightning"), Greenfield, Mass.

Presses (Rail Straightening)

Alliance Machine Co., Alliance, O.

Hilles & Jones Co., Wilmington, Del.

*Presses (Reducing)

BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)

Leffler, Chas. & Co., 49 Clymer, Brooklyn, N. Y.

PERKINS MACHINE CO., Warren, Mass. (See adv. index, end of book)

Presses (Riveting)

Alliance Machine Co., Alliance, O.

BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)

Ferracute Machine Co., Bridgeton, N. J.

HEARTLEY MACHINE, VARIETY Iron & Tool Works, Toledo, O. (See adv. index, end of book)

NIAGARA MACHINE & TOOL WKS., Buffalo, N. Y. (See adv. index, end of book)

PERKINS MACHINE CO., Warren, Mass. (See adv. index, end of book)

Toledo Machine & Tool Co., Toledo, O.

Williams, White & Co. (Horizontal), Moline, Ill.

Presses (Screw)

American Can Co. ("Rudolph & Krummel" Hand & Power), 135 Adams, Chicago, Ill.
AMERICAN PROCESS CO. (Automatic, Continuous), 62 William, New York.
 (See adv. index, end of book)
 Bender, Ph. J. & Sons, 87 Frankfort, New York

BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)
 Boomer & Boschert Press Co. (Power), Syracuse, N. Y.
 Burroughs, Chas. Co., 141 Commerce, Newark, N. J.

Bushnell, G. H. Press Co., Thompsonville, Conn.
 Cook, Thos. W. G., 4 Reade, New York
 Cornell, J. B. & J. M. Co., 26th & 11th av., New York

Crompton & Knowles Loom Works, Worcester, Mass.
 Dennis, Jno. & Co. (for Hot Pressing), Lowell, Mass.

Ferracute Machine Co., Bridgeton, N. J.
 Hibbard, Wm. H. Mfg. Co., 79 Washington, Brooklyn, N. Y.

Johnson, Israel H., jr., Co., 337 N 15th, Philadelphia, Pa.
 Keene, Geo. C. & Co., 2327 Montgomery rd., Cincinnati, O.

Lowell Machine Shop (Double Screw), Lowell, Mass.
 Loyd, Jno. Co., 553 Water, New York

Merriman, A. H., Meriden, Conn.
 New Doty Mfg. Co., Janesville, Wis.

NIAGARA MACHINE & TOOL WKS., Buffalo, N. Y. (See adv. index, end of book)
 Niles-Bement-Pond Co., 111 B'way, New York

PERKINS MACHINE CO. (Hand & Power), Warren, Mass. (See adv. index, end of book)

Perrin, Wm. R. & Co. (For Abattoirs), 1500 46th, Chicago, Ill.

Philadelphia Drying Machinery Co. (Power), 6721 Germantown av., Phila., Pa.

Riehle Bros. Testing Machine Co., 1424 N 9th, Phila., Pa., & 120 Liberty, N. Y.

Robinson, J. M. Mfg. Co., 2d & Central av., Cincinnati, O.

Sellers, Wm. & Co. (Inc.) (For Forcing Wheels, Pulleys, etc.), 1600 Hamilton, Phila., Pa.

Standish, Albert, 120 W Spring, Columbus, O.

Swaine, F. J. Co. (Arch, etc.), St. Louis, Mo.

Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.

Presses (Seal)

Ashbery, Henry C., 16 Seneca, Buffalo, N. Y.

Crescent Seal & Stamp Co., Cambridge O.

Handlan-Buck Mfg. Co. ("Handlan"), 212 N 3d, St. Louis, Mo.

MORRILL, CHAS. ("Morrill"), 277 B'way, New York. (See adv. index, end of book)

Murdock, James, Jr., Co., 116 Longworth, Cincinnati, O.

Ness, George M., Jr., 61 Fulton, N. Y.

Parker, T. M., Hartford, Conn.

Schwerdtle Stamp Co. (All Kinds), Bridgeport, Conn.

Smith, R. H. Mfg. Co., 293 Main, Springfield, Mass.

Utica Drop Forge & Tool Co., Utica, N. Y.

Presses (Sewer Pipe)

(See Sewer Pipe Machinery.)

Presses (Shaft Straightening)

Brightman Mfg. Co., Shelby, O.

Logeman Bros. Co. (Hydraulic), Milwaukee, Wis.

Presses (Shearing)

Alliance Machine Co., Alliance, O.

BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)

Buffalo Forge Co., Buffalo, N. Y.

New Doty Mfg. Co., Janesville, Wis.

NIAGARA MACHINE & TOOL WKS., Buffalo, N. Y. (See adv. index, end of book)

PERKINS MACHINE CO., Warren, Mass. (See adv. index, end of book)

Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.

Whitcomb Mfg. Co., Worcester, Mass.

Williams, White & Co., Moline, Ill.

***Presses (Sheet Metal Working)**

BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)

PERKINS MACHINE CO., Warren, Mass. (See adv. index, end of book)

Presses (Shook)

Chase Turbine Mfg. Co. (Power Driven for Driving Together the Mortised Edges of Shooks on Boxes), Orange, Mass.

Presses (Signature)

Sheridan, T. W. & C. B. Co., 56 Duane, New York

Presses (Skein)

Williams, White & Co., Moline, Ill.

Presses (Sprue)

(See Cutters, Sprue, Foot & Power.)

Presses (Stamping)

Balrd Machine Co., Oakville, Conn.

BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)

Empire State Engineering Co., 116th & E. R., New York

Ferracute Machine Co. (Sheet Metal), Bridgeport, N. J.

Hart, R. A. & Co., Battle Creek, Mich.

Hibbard, Wm. H. Mfg. Co., 79 Washington, Brooklyn, N. Y.

Logeman Bros. Co., Milwaukee, Wis.

Swaine, F. J. Co. (Sheet Metal), St. Louis, Mo.

Toledo Machine & Tool Co. (Sheet Metal), Toledo, Ohio

Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.

***Presses (Starch)**

ELMES, CHAS. F. ENGINEERING Works, c Fulton & N Sangamon, Chicago, Ill. (See adv. index, end of book)

***Presses (Stiles Punching)**

BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)

***Presses (Straightening)**

MORSE TWIST DRILL & MACHINE CO. (for Round or Flat Stock), New Bedford, Mass. (See adv. index, end of book)

***Presses (Straight Sided)**

PERKINS MACHINE CO., Warren, Mass. (See adv. index, end of book)

Presses (Sugar Filtering)

(See Sugar Machinery.)

Presses (Ticket Printing)

Kidder Press Co., Dover, N. H., & 150 Nassau, New York

Presses (Tincture, Druggists')

Enterprise Mfg. Co., 3d & Dauphin, Phila., Pa.

Presses (Tissue Paper Printing)

Kidder Press Co., Dover, N. H., & 150 Nassau, New York

Presses (Tobacco)

Adams Tobacco Press Co., Quincy, Ill.

Ball, Mitchell & Co., Maysville, Ky.

Cutaway Harrow Co., Higganum, Conn.

Grote Mfg. Co., Evansville, Ind.

Hydraulic Press Mfg. Co., Mt. Gilead, O.

Nagley Mfg. Co., Lyons, N. Y.

Phoenix Foundry & Mfg. Co., Ripley, O.

Talbot & Sons, Richmond, Va.

Presses (Toggle)

(See Presses, Drawing; also Presses, Power)

Presses (Treadle)

Slaysman & Co. (Can Makers'), 718 E Pratt, Baltimore, Md.

Presses (Trimming)

Adriance Machine Works, 254 Van Brunt, Brooklyn, N. Y.

American Can Co., 135 Adams, Chicago, Ill.

Balrd Machine Co., Oakville, Conn.

Billings & Spencer Co., Hartford, Conn.

Cook, Thos. W. G., 4 Reade, N. Y.

Crane, W. W. Foundry & Machine Works, Auburn, N. Y.

HEARTLEY MACHINE, VARIETY Iron & Tool Works, Toledo, O. (See adv. index, end of book)

Hibbard, Wm. H. Mfg. Co., 79 Washington, Brooklyn, N. Y.

Hilles & Jones Co., Wilmington, Del.

MERRILL BROS., 465 Kent av., Brooklyn, N. Y. (See adv. index, end of book)

Miner & Peck Mfg. Co., New Haven, Conn.

NIAGARA MACHINE & TOOL WKS., Buffalo, N. Y. (See adv. index, end of book)

Niles-Bement-Pond Co., 111 B'way, New York

Pawtucket Mfg. Co., Pawtucket, R. I.

PERKINS MACHINE CO. (for Drop Forgings, etc.), Warren, Mass. (See adv. index, end of book)

Toledo Machine & Tool Co. (Power), Toledo, O.

Waterbury Farrel Foundry & Machine Co. (Punching & Trimming), Waterbury, Conn.

Presses (Veneer)

American Woodworking Machinery Co., Rochester, N. Y., & West Street bldg, New York

Bentel & Margedant Co. (Hydrostatic), Ham-Ilton, O.

Boomer & Boschert Press Co., Syracuse, N. Y.

Bushnell, G. H. Press Co., Thompsonville, Conn.

Fox Machine Co., Grand Rapids, Mich.

Francis, Chas. E. & Bro., 425 E 8th, Cincinnati, O.

HAMMACHER, SCHLEMMER & CO., 133 4th av, New York. (See adv. index, end of book)

Huntsville Foundry & Machine Works (Nolan & Jones, Props.), Huntsville, Ala.

Hydraulic Press Mfg. Co. (Hydraulic), Mt. Kline, Lewis T., Alpena, Mich. Gilead, O.

Smith, H. B. Machine Co., Smithville, N. J., & 121 Liberty, New York

Towsley, John T. Mfg. Co., Evans n Gest, Cincinnati, O.

Presses (Vulcanizing)

AITON MACHINE CO., 126 Liberty, New York, & Harrison, N. J. (See adv. index, end of book)

Clark, Edred W., Hartford, Conn.

Smith, R. H. Mfg. Co. ("Bay State"), 293 Main, Springfield, Mass.

Presses (Waste)

Pierce, Adams True ("True"), Dover, N. H.

STRONG MACHINERY & SUPPLY Co. ("Economy" & "Eclipse"), 48 Franklin, New York. (See adv. index, end of book)

Presses (Wheel)

(See Presses, Hydraulic Wheel.)

Presses (Wine & Cider)

American Seeding Machine Co. (Cider Only), Main Office: Springfield, O. Works: Louisville, Ky.

Ames Plow Co., Quincy Hall, Boston.

Boomer & Boschert Press Co., Syracuse, N. Y.

Bushnell, G. H. Press Co., Thompsonville, Conn.

Comstock, Geo. S. ("Triumph"), Mechanicsburg, Pa.

Donaldson Bros., Mt. Clemens, Mich.

Eagle Machine Co., Lancaster, O.

Emeny, G. J., Fulton, N. Y.

Enterprise Mfg. Co. (Fruit, Wine & Jelly), 3d & Dauphin, Philadelphia, Pa.

Farquhar, A. B. Co., York, Pa.

Haish Mfg. Co., De Kalb, Ill.
Hench & Drugold Co., York, Pa.
Hercules Lever Jack Co., Irvington, N. J.
Hocking Valley Mfg. Co., Lancaster, O.
Hydraulic Press Mfg. Co., Mt. Gilead, O.
Keystone Farm Machine Co., York, Pa.
Klotz Machine Co. ("Hero" Geared, Hand & Power), Sandusky, O.
Krogh Mfg. Co., San Francisco, Cal.
Lausung Wheelbarrow Co., Lausung, Mich.
Mast, P. P. & Co., Springfield, O.
Schrivver, O. P. & Co. ("I. X. L."), 208 Elm, Cincinnati, O.
Thomas-Albright Co., Goshen, Ind.
White, R. W. & Bro., Norfolk, Va.
Whitehurst, R. W. Co., Norfolk, Va.
Whitman Agricultural Co., St. Louis, Mo.

Presses (Wiring)

American Can Co. (For Can Makers, etc.), 135 Adams, Chicago, Ill.
BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)
HEARTLEY MACHINE, VARIETY Iron & Tool Works, Toledo, O. (See adv. index, end of book)
Lefler, Chas., & Co. (Also Horning), 63 Clymer, Brooklyn, N. Y.
NIAGARA MACHINE & TOOL WKS., Buffalo, N. Y. (See adv. index, end of book)
PERKINS MACHINE CO., Warren, Mass. (See adv. index, end of book)
Slaysman & Co. (For Can Makers), 718 E Pratt, Baltimore, Md.
Swaine, F. J. Co., St. Louis, Mo.
Toledo Machine & Tool Co., Toledo, O.

*Presses (Wood Printing)

(See also Box Board Printing Machines.)

GRAMMES, L. F. & SONS ("Pilot"), Allentown, Pa. (See adv. index, end of book)

Presses (Wood Pulp)

Boomer & Boschert Press Co., Syracuse, N. Y.
Bushnell, G. H. Press Co., Thompsonville, Conn.
Scott, Olin, Bennington, Vt.
Trevor Mfg. Co., Lockport, N. Y.

Pressure Blowers

(See Blowers, Pressure.)

Prime Movers

See Dynamo & Motor Mfrs.;
Engines, various kinds;
Generators, various kinds;
Motors, various kinds;
Turbines, various kinds;
Windmills.

Printers' Wood Furniture

Hamilton Mfg. Co., Two Rivers, Wis.
New England Wood Type Co., Brookline, N. H.
Tubbs Mfg. Co., Ludington, Mich.

Prismatic Hoods (Electric Light)

Phila. Light & Equipment Co., Land Title bldg, Philadelphia, Pa.

Prismatic Lights

(See Glass, Prismatic; also Vault, Floor & Sidewalk Lights.)

Prison Cells

(See Jail & Cell Work, Steel.)

Projectiles (Steel)

American & British Co., Bridgeport, Conn.
BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)
Flrth-Sterling Steel Co., Demmler, Pa.
Johnson, Isaac & Co., Spuyten Duyvil, New York City, N. Y.
Midvale Steel Co., Nicetown, Philadelphia, Pa.
PRESSED STEEL TANK CO. (Seamless Steel Shells), Milwaukee, Wis. (See adv. index, end of book)
Taylor Iron & Steel Co., Highbridge, N. J.

Projectors or Search Lights

Benton, Thos. P. & Sou, La Crosse, Wis.
Bogue, Chas. J., Electric Co., 213 Centre, New York
Carlisle & Finch Co., 231 E Clifton av, Cincinnati, O.
Electric Motor & Equipment Co., 13 Beaver, Newark, N. J.
Engberg Electric & Mechanical Works, St. Joseph, Mo.
Fort Wayne Electric Works (Inc.), Fort Wayne, Ind.
GENERAL ELECTRIC CO., Schenectady, N. Y., & 44 Broad, New York. (See adv. index & branch offices, end of book)
Rushmore Dynamo Works (Electric or Acetylene for Yachts, Locomotives & Automobiles), Plainfield, N. J.

Protectors (Smoke)

Cover, H. S., 126 Perley, South Bend, Ind.
Vajen-Bader Co., Richmond, Ind.

Protractors

Brown & Sharpe Mfg. Co. (Draughtsmen's), Providence, R. I.
Johns-Pratt Co., The, Hartford, Conn.
Massachusetts Tool Co., Greensfield, Mass.
Neptune Mfg. Co., Needham, Mass.
Sawyer Tool Mfg. Co., Fitchburg, Mass.
Starrett, L. S. Co. (Bevel, etc.), Athol, Mass.

Pruners (Tree)

(See Shears, Pruning.)

Publications (Trade)

Acetylene Journal, 324 Dearborn, Chicago, Ill.
American Architect, 12 W 40th, New York
American Artisan, 69 Dearborn, Chicago, Ill.
American Blacksmith, Prudential bldg, Buffalo, N. Y.
American Carpenter & Builder, 196 5th av, Chicago, Ill.
American Contractor, 40 Dearborn, Chicago, Ill.
American Cotton Manufacturer, Charlotte, N. C.
American Dairyman, 96 Warren, New York
American Druggist & Pharmaceutical Record, 62 W B'way, New York
American Exporter, 135 William, New York
American Fertilizer, 1010 Arch st, Phila., Pa.
American Gas Light Journal, 42 Pine, N. Y.
American Machinist, 505 Pearl, New York
American Manufacturer, Textile, Charlotte, N. C.
American Pressman, 208 Olive, St. Louis, Mo.
American Sportsman, 27 Park Place, N. Y.
American Sugar Industry, 145 La Salle, Chicago, Ill.
American Telephone Journal, 100 William, New York
Architects' & Builders' Journal, 301 N Charles, Baltimore, Md.
Architects & Builders' Magazine, 23 Warren, Architecture, 160 5th av, New York, N. Y.
Architectural Record, 14 Vesey, New York
Automobile Dealer & Repairer, 24 Murray, New York
Automobile Magazine, 136 Liberty, New York
Automobile, Flat Iron bldg, New York
Barbers' Journal, 1135 Broadway, New York
Barrel & Box, 431 Main, Louisville, Ky.
Blacksmith & Wheelwright, 27 Park Place, New York
Boiler Maker, 17 Battery Place, New York
Brewers' Journal, Hudson, New York
Brickbuilder, 85 Water, Boston, Mass.
Butchers' Advocate, 203 Broadway, New York
Buyers' Index, 59 Pearl, New York
Canadian Architect & Builder, Toronto, Montreal, Can.
Canadian Manufacturer & Industrial World, Toronto, Montreal, Can.
Carpentry & Building, 14 Park pl, New York
Cement Era, 141 5th av, Chicago, Ill.
Cement & Engineering News, 226 La Salle, Chicago, Ill.
Clay Record, 303 Dearborn, Chicago, Ill.
Clay Worker, Indianapolis, Ind.
Coal, Arrott bldg, Pittsburgh, Pa.
Cold Storage & Ice Trade Journal, Produce Exchange, New York
Commercial Record, 127 Federal, Boston, Mass.
Compressed Air, 108 Fulton, New York
Confectioners & Bakers' Gazette, 125 Worth, New York
Construction News, Monadnock blk, Chicago, Ill.

Contract News, 13 Park row, New York
Contractor, 188 E Madison, Chicago, Ill.
Cotton, Equitable bldg, Atlanta, Ga.
Creditors' Mercantile Guide, 621 B'way, New York
Cycle & Automobile Journal, 1213 Filbert, Dixie, Atlanta, Ga.
Domestic Engineering, 58 N Jefferson, Chicago, Ill.
Dry Goods Economist, 192 1/2 Greene, New York
El Comercio, 126 Liberty, New York
Electrical Age, 3 W 29th, New York
Electrical Review, 15 Park Row, N. Y.
Electrical World & Engineer, 116 Liberty, N. Y.
Engineer, 555 Dearborn, Chicago, Ill.
Engineering-Contracting, Park row bldg, New York
ENGINEERING MAGAZINE, 140 Nassau, New York. (See adv. index, end of book)
ENGINEERING NEWS PUB. CO., 220 B'way, New York. (See adv. index, end of book)
ENGINEERING RECORD, 114 Liberty, New York. (See adv. index, end of book)
Engineering Review Co., 1123 B'way, New York
Engineering World, 168 Michigan av, Chicago, Ill.
Engineering & Mining Journal, 505 Pearl, New York
Engineers' Review, Caxton bldg, Cleveland, O.
Exportador Americano, 135 William, New York
Exporters & Importers' Journal, 17 State, New York
Farm Implement News, Masonic Temple, Chicago, Ill.
Farm Machinery, 506 Olive, St. Louis, Mo.
Fire & Water Engineering, 93 Nassau, New York
Furniture Industry, Evansville, Ind.
GIBSON, GEO. H. CO., Tribune bldg, New York. (See adv. index, end of book)
Hardware Dealers' Magazine, 253 B'way, N. Y.
Harness, 24 Murray, New York
Heating & Ventilating Magazine, 1123 B'way, Hub, 24 Murray, New York
Illuminating Engineer, 25 Broad, New York
Illuminating Engineering Publishing Co. (Technical), 12 W 40th
Improvement Bulletin, Lumber Exchange, Minneapolis, Minn.
India Rubber World, 35 W 21st, New York
Industrial Magazine, 21 Park row, New York
Insurance Engineering, 120 Liberty, New York
International Buyers' Index, 110 Broad, New York
International Marine Engineering, Whitehall bldg, New York
International Typographical Journal, Indianapolis, Ind.
Iron Age, 14 Park pl, New York
Iron Trade Review, Cleveland, O.
Jewelers' Circular, 11 John, New York
Lumberman (St. Louis), Fullerton bldg, St. Louis, Mo.
Lumber World (Strode's), Chicago, Ill.
Machinery, 66 W B'way, New York
Manufacturers' Record, Merchants' Nat. Bank bldg, Baltimore, Md.
Marine Engineering, 17 Bttery pl, New York
Marine Review, Browning bldg, Cleveland, O.
Metal Worker, 14 Park pl, New York
Mines & Minerals, Scranton, Pa.
Mining Magazine, 135 William, New York
Mining & Scientific Press, San Francisco, Cal.
Modern Machinery, Security bldg, Chicago, Ill.
Monumental News, 324 Dearborn, Chicago, Ill.
Motor Age, 307 Michigan av, Chicago, Ill.
Motor Boat, 1133 B'way, New York
Motor World, 154 Nassau, New York
Municipal Engineering, Indianapolis, Ind.
Municipal Journal & Engineer, Flatiron bldg, New York
Oil, Paint & Drug Reporter, 100 William, New York
PACIFIC BUILDER & ENGINEER, Pacific blk, Seattle, Wash. (See adv. index, end of book)
Packages, Montgomery bldg, Milwaukee, Wis.
Pharmaceutical Era, 90 William, New York
Plumbers' Trade Journal Pub. Co., 61 Beekman, New York
Popular Mechanics, Journal bldg, Chicago, Ill.
Power, 505 Pearl, New York
Power Boat News, 7 Murray, New York
Practical Engineer, 46 N 12th, Phila., Pa.
Progressive Age, 280 B'way, New York
Railroad Gazette, 81 Fulton, N. Y.
Railway Age, Monadnock blk, Chicago, Ill.
Railway Maintenance & Structures, 13 Park row, New York
Railway Master Mechanics, Security bldg, Chicago, Ill.
Railway & Engineering Review, Manhattan bldg, Chicago, Ill.
Real Estate Record, 46 N 11th, Phila., Pa.
Record & Guide, 14 Vesey, New York
Rock Products, 431 W Main, Louisville, Ky.
Rudder Publishing Co., 9 Murray, New York

Shoe & Leather Reporter, 183 Essex, Boston, Mass.
 Sound Waves (International Telephone Journal), Logansport, Ind.
 Southern Machinery, Prudential bldg, Atlanta, Ga.
 Starchroom Laundry Journal, Blymyer bldg, Cincinnati, O.
 Stove & Hardware Reporter, St. Louis, Mo.
 Street Railway Journal, 114 Liberty, New York System, 151 Wabash av, Chicago, Ill.
 Textile Manufacturers Journal, 377 B'way, New York
 Technical World Magazine, 3325 Armour av, Chicago, Ill.
 Textile World Record, 299 Devonsbire, Boston, Mass.
 Trade Mark Record, 40 Exchange pl, N. Y.
 Trade Press List, 138 Congress, Boston, Mass.
 Tradesman Publishing Co., Chattanooga, Tenn.
 Transit, Iowa City, Ia.
 Waste Trade Journal, The, 108 Fulton, New York
 Western Architect & Builder, Commercial Tribune bldg, Cincinnati, O.

Puller & Recorker

Arcade Mfg. Co. ("Phoenix," "Clipper," "Handy" & "Arcade"), Freeport, Ill.

Pullers (Beet)

Avery, B. T. & Sons, Louisville, Ky.
 Bay City Plow Works ("Bay City"), Bay City, Mich.
 Beach Mfg. Co. (Diamond), Lyons, Mich.
 Deere & Mansur Co., Moline, Ill.
 Bucher & Gibbs Plow Co. ("Imperial," "Michigan"), Canton, O.
 Donaldson Bros. (Valley), Mt. Clements, Mich.
 Gale Mfg. Co., Albion, Mich.
 Lebr Agricultural Co., Fremont, O.
 Moline Plow Co., Moline, Ill.
 Morrison Mfg. Co., Ft. Madison, Ia.
 Ohio Cultivator Co. (Famous Ohio), Bellevue, O.
 Palmer, M. W., Hamilton, Mich.
 Parlin & Orendorff Co. (Canton), Canton, Ill.
 Toledo Plow Co. ("New Model"), Toledo, O.
 Vine & Root Machinery Co. (Port Huron), Port Huron, Mich.

Pullers (Car)

Barnard & Leas Mfg. Co. ("Moline"), Moline, Ill.
DODGE MFG. CO. ("Safety"), Mishawaka, Ind. (See adv. index & branch offices, end of book)
 Howe Scale Co., of Illinois, 1315 Wabash av, Chicago, Ill.
 Link Belt Machinery Co., W 39th & Stewart, Chicago, Ill.
MINNEAPOLIS STEEL & MACHINERY CO., Minneapolis, Minn. (See adv. index & branch offices, end of book)
 Nordyke & Marmon Co., Indianapolis, Ind.
 Skillin & Richards Mfg. Co. (Improved), 147 Fulton, Chicago, Ill.

Pullers (Cork)

Arcade Mfg. Co. ("Champion," "Triumph" & "Standard"), Freeport, Ill.
 Erie Specialty Co. ("Walker's" Self Pulling), Erie, Pa.
 Hawley, C. W. ("Quick As a Wink"), 11 Chambers, New York
 Locke, C. E. Mfg. Co. ("Quick As a Wink"), Kensett, Ia.

Pullers (Nail)

(See also Pullers, Tack; also Pullers, Staple)
 Atwater Mfg. Co. (Star), Southington, Conn.
 Beldon Machine Co., New Haven, Conn.
 Bridgeport Hardware Mfg. Co. ("Sure Grip," "Jumbo," "Rex"), Bridgeport, Conn.
 Cedar Rapids Mfg. Co. ("Neverslip"), Cedar Rapids, Ia.
 Chandrell Tool Co., Reading, Pa.
 Denison Mfg. Co. ("Denison"), Warren, O.
GRAMMES, L. F. & SONS ("Bull Dog"), Allentown, Pa. (See adv. index, end of book)
 Hurst, H. L. Mfg. Co., Canton, O.
 Landers, Frary & Clark ("Universal"), New Britain, Conn.
 Miller's Falls Co., Miller's Falls, Mass., & 25 Warren, N. Y.

MORRILL, CHAS. ("Morrill"), 277 B'way, New York. (See adv. below)



MANUFACTURED BY

CHAS MORRILL, 277 Broadway, N. Y.

Nafew, Samuel ("Samson"), 335 B'way, New Sayre, L. A. Co., Newark, N. J.
 Schatz Hardware Mfg. Co., Chappaqua, N. Y.
 Scranton & Co., New Haven, Conn.
 Smith & Hemenway Co. ("The Giant"), 108 Duane, New York
 Snow & Petrelli Mfg. Co., 698 Chapel, New Haven, Conn.
 Tower & Lyon Co. ("The Cyclops"), 95 Chambers, N. Y.
 Universal Tool Co. ("Milla's"), Springfield, Mass.
 Winkley Co. ("Star"), Hartford, Conn.

Pullers (Onion)

Bateman Mfg. Co., Grenloch, N. J.
 Deere & Mansur Co., Moline, Ill.
 Jeliff, C. O. Mfg. Corp., Southport, Conn.

Pullers (Plank)

ANDERSON, W. H. TOOL & SUPPLY CO., 14 Macomb, Detroit, Mich. (See adv. index, end of book)

Pullers (Spike)

(See also Bars, Pinch.)

Harvey, H. H., 608 Atlantic av., Boston, Mass.
 Justice, Philip S. & Co. ("Justice" Railroad), 421 Chestnut, Phila., Pa.
 Mogul Claw Bar Co., Lawrence, Kan.
MORRILL, CHAS. ("Pierson," "Cyclone" & "Morrill"), 277 B'way, New York. (See adv. above)
 Pearson, Jack Co. (The "Mogul"), 64 Federal, Boston, Mass.
 Pittsburg Tool & Drop Forge Co. ("Cheswick" for Use Between Guard Rails, etc.), Cheswick, Pa.
 Solid Steel Tool & Forge Co. (2 or 3 Ball), Brackenridge, Pa.

Pullers (Staple)

Cheney, Henry Hammer Co., Little Falls, N. Y.
 Cronk & Carrier Mfg. Co., Elmira, N. Y.
 Scriber, O. P. & Co. ("I. X. L."), 208 Elm, Cincinnati, O.
 Smith & Hemenway Co. ("The Giant"), 108 Duane, New York
 Utica Drop Forge & Tool Co., Utica, N. Y.

Pullers (Stump)

Bennett, H. L. & Co. ("Bennett"), Westerville, O.
 Butterworth & Lowe, Grand Rapids, Mich.
 Carter, W. D., Canister, N. Y.
 Caward, R. S. (Fauntless), Cresco, Ia.
 Chamberlin Mfg. Co., Olean, N. Y.
 Dean Mfg. Co. (Sampson), Seymour, Wls.
 Edwards, C. D. ("Climax," "Jumbo," "Cblef"), Albert Lea, Minn.
 Farquhar, A. B. Co. (Ltd.) ("Archimedean," Hand Power), York, Pa.
 Hazelhurst Mfg. Co. ("Williams"), Hazelhurst, Ga.
 Hercules Mfg. Co. ("Hercules"), Centerville, Ia.
 Kansas City Hay Press Co. ("Lightning"), Kansas City, Mo.
 Lee, R. E., Almont, Mich.
 Milne Mfg. Co. ("Hawkeye," "I. & L., "Iron Giant," "Milne"), Monmouth, Ill.
 Indiana Foundry Co. (Martin), Indiana, Pa.
 Mobland & Co. (Corbett, Little Giant, Pioneer & Hawkeye), Burlington, Ia.
 Monarch Grubber Mfg. Co. ("Monarch" Grubber), Lone Tree, Ia.
 Niver Iron Works Co., Muncatone, Ia.
 St. Albans Foundry & Implement Co. ("St. Albans"), St. Albans, Vt.
 Smith Mfg. Co. ("Defiance"), La Crosse, Wis.

Smith, W. Grubber Co., La Crosse, Wls.
 Snow Mfg. Co. ("Cyclone"), Batavia, Ill.
 Sparta Iron Works Co., Sparta, Wis.
 Swenson, Grubber Co. ("Swenson," Malleable Iron), Cresco, Ia.
 Waterloo Iron Works ("Waterloo," "Leader"), Waterloo, Ia.

Pullers (Tack)

Arcade Mfg. Co., Freeport, Ill.
 Bridgeport Hardware Mfg. Co., 481 Iranistan av., Bridgeport, Conn.
 Browne & Dowd Mfg. Co. ("Yankee"), Meriden, Conn.
 Cassady-Fairbank Mfg. Co., 6106 La Salle, Chicago, Ill.
 Cronk & Carrier Mfg. Co., Elmira, N. Y.
 Denison Mfg. Co. (Denison), Warren, O.
 General Specialty Co. ("BI-Ped"), Harrison bldg, Phila., Pa.
 Hoague, J. H., Chlcopee, Mass.
 Smith & Hemenway Co. ("The Giant"), 298 B'way, N. Y.
 Springfield Machine Screw Co. ("Little Giant"), Chlcopee, Mass.
 Utica Drop Forge & Tool Co., Utica, N. Y.
 Verona Tool Works (Spike, etc.), Verona, Pa., & Pittsburg, Pa.
 Wrightsville Hardware Co., Wrightsville, Pa.

Pullers (Wire)

Dicke Tool Co. ("The Imperial"), Downers Grove, Ill.
 Browne & Dowd Mfg. Co. ("Yankee"), Meriden, Conn.

Pulley Blocks (Differential Chain)

(See Blocks, Differential Chain)

Pulley Blocks for Electric Light Poles

(See also Blocks, Various Kinds.)
 Brady, T. H. (Brady's Sleet Proof), New Britain, Conn.
 Burr Mfg. Co., Cleveland, O.
 Creaghead Engineering Co., 313 Walnut, Cincinnati, O.
 Cutter, Geo. Co. (Arc Lamp), South Bend, Ind.
 Dicke Tool Co., Downers Grove, Ill.
 Fletcher Mfg. Co., Dayton, O.
 Ferdinand, L. W. & Co., Boston, Mass.
 Irving Mfg. & Tool Co. (J. F. McCoy Co., Prop.), 159 Chambers, New York
 Klein, Matbias & Son, 87 W Van Buren, Chicago
 Stowell Mfg. & Foundry Co., South Milwaukee, Wis.
 Western Block Co., Lockport, N. Y.
 Wilcox, Crittenden & Co., Middletown, Conn.

*Pulley Bracket (Clothes Line)

OVICI, S. I. & CO. (Sole Agents) ("O. V. C."), 401 B'way, New York. (See insert opp. page 232)

Pulley Covering

Acme Pulley Covering Co., 348 W Lake, Chicago, Ill.
 Boston Woven Hose & Rubber Co. ("Milo" Stitched Canvas), Executive Office & Factory, Cambridgeport, Mass.
 Fansber Bros. ("Anti-Slip" Pulley Dressing), Dayton, O.
 Little, O. C. Pulley Coating Co., Menasha, Wis.
 Oak Leather Pulley Covering Co. (Oak Leather), 432 N 10th, Phila., Pa.
 Shultz Belting Co., 402 Barton, St. Louis, Mo.
 Turner, J. S. Mfg. Co., Lowell, Mass.

*Pulleys ("American," Split & Whole)

AMERICAN PULLEY CO., 29th & Bristol, Phila., Pa. (See adv. index & branch offices, end of book)
PRESSED METAL MFG. CO., 35 Warren, New York

*Pulleys ("American," Wrought Steel)

AMERICAN PULLEY CO., 29th & Bristol, Phila., Pa. (See adv. index & branch offices, end of book)

Pulleys (Anti-Friction, Dumb Waiter)

Stowell Mfg. & Foundry Co., South Milwaukee, Wis.

Pulleys (Arc Lamp)

(See Blocks, Pulley, for Electric Arc Lamps, Etc.)

Pulleys (Awning or Tackle)

CARPENTER, GEO. B. & CO., 202 S
Water, Chicago, Ill. (See adv. index, end of book)

Laughlin, Thomas Co., Portland, Me.
Marine Hardware & Equipment Co., South
Ney Mfg. Co., Canton, O. Portland, Me.
Peck, Stow & Wilcox Co., Southington, Conn.
Penna. Hardware Co., Reading, Pa.
Reading Hardware Co., Reading, Pa.
Wilcox, Crittenden & Co., Middletown, Conn.

Pulleys (Bell Cord)

Brill, J. G. Co. (Also Register Cord), Phila., Pa.
Creamer, W. G. & Co., 96 John, New York

Pulleys (Cast Iron)

(See also Machinery, Power Transmitting.)

ALLIS-CHALMERS CO., Milwaukee, Wis.
(See adv. index & branch offices, end of book)

American Tool & Machine Co., 109 Beach, Boston, Mass.
BIRMINGHAM IRON FOUNDRY, Derby, Conn. (See adv. index, end of book)

BROWN, A. & F. CO., 25 Dey, New
York. Works, Elizabethport, N. J. (See adv. index, end of book)

CALDWELL, W. E. CO., Brook & D,
Louisville, Ky. (See adv. index, end of book)

Cresson, Geo. V. Co., Allegheny av, W of 17th,
Phila., Pa., & 141 Liberty, New York

Dayton Globe Iron Works Co., 833 S Ludlow,
Dayton, O.

DODGE MFG. CO., Mishawaka, Ind.
(See adv. index & branch offices, end of book)

Eastern Machinery Co., New Haven, Conn.
Fales & Jenks Machine Co., Pawtucket, R. I.

Falls Rivet & Machine Co., Cuyahoga Falls,
O.
Filer Stowell Co., Milwaukee, Wis.

Fischer Foundry & Machine Co., S 21st & Mary,
Pittsburg, Pa.

Freeman, S. & Sons Mfg. Co., Racine, Wis.
Frick Co., Waynesboro, Pa.

Frost Mfg. Co., Galesburg, Ill.
Fulton Machine Co., Canal, Fulton, O.

Goldens' Foundry & Machine Co., Columbus, Ga.
Great Western Mfg. Co., Leavenworth, Kans.

Greenwald, I. & E. Co., 720 E. Pearl, Cincinnati, O.

Henry Machine Works, 38 Fremont, San Francisco, Cal.

Hess-Snyder Co., Massillon, O.
Hill Clutch Co., ft. 58th N W, Cleveland, O.

Holyoke Machine Co., Worcester, Mass., & Holyoke, Mass.

Humphrey Machine Co., Keene, N. H.
Hunter, Jas. Machine Co., North Adams, Mass.

Jacobson Machine Mfg. Co. (Clutch), Warren, Pa.

JEFFREY MFG. CO., Columbus, O.
(See adv. index & branch offices, end of book)

Jones, W. A. Foundry & Machine Co. (Machine Moulded), 143 W North av, Chicago, Ill.

Jones & Laughlin Steel Co., Pittsburg, Pa.
Kaestner & Co. (Inc.), 241 S Jefferson, Chicago, Ill.

Klotz Machine Co., Sandusky, O.
LANE MFG. CO., Montpelier, Vt.
(See adv. index, end of book)

Lane & Bodley Co., c John & Water, Cincinnati, O.

Leffel, Jas. & Co., Inc., Springfield, O.
Link Belt Co., Nicetown, Phila., Pa.

Love Bros. (Inc.), Aurora, Ill.
McCaffrey, Jno. (Shaft), Lawrence, Mass.

Marseilles Mfg. Co., Marseilles, Ill.
Medart Patent Pulley Co., St. Louis, Mo.

MINNEAPOLIS STEEL & MACHINERY
Co., Minneapolis, Minn. (See adv. index & branch offices, end of book)

Minster Machine Co., Minster, O.
Nordyke & Marmon Co., 1101 W Morris, Indianapolis, Ind.

Parsons, R. E. Co., Bridgeport, Conn.
Plamondon, A. Mfg. Co., 57 S Clinton, Chicago, Ill.

Platt Iron Works Co., Dayton, O., and 100 Broadway, New York

Poole Engineering & Machine Co., Woodberry Station, Baltimore, Md.
Porter Foundry & Machine Co., Allegheny, Pa.

Portland Co., Portland, Me.
Risdon Iron Works, Steuart & Folsom, San Francisco, Cal.

St. Marys Machine Co. ("Likens Clutch"), St. Marys, O.

Seulfe Foundry & Machine Co., Pittsburg, Pa.
Seifers, Wm. & Co. (Inc.), 1600 Hamilton, Philadelphia, Pa.

Skillin & Richards Mfg. Co., 147 Fulton, Chicago, Ill.

Smith, H. B. Machine Co., Smithville, N. J., and 121 Liberty, New York, N. Y.

South Bend Pulley Co., South Bend, Ind.
Southern Engine Boiler Works (Inc.), Jackson.

Sprout, Waldron & Co., Muncy, Pa. Tenn
Standard Pulley Co., 466 Pioneer, Cincinnati, O.

Standard Pulley & Foundry Co. (Machine, Moulded, etc.), 1228 Collins, St. Louis, Mo.

Strait, H. N. Mfg. Co., Kansas City, Mo.
Toledo Foundry & Machine Co., Toledo, O.

Trump Mfg. Co., Springfield, Ohio.
Union Machine Co., Worcester, Mass.

Valley Iron Works, Williamsport, Pa.
Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.

Webster Mfg. Co., 1075 W 15th, Chicago, Ill.
White, Jno. A. Co., Dover, N. H.

Wickes Bros., Saginaw, Mich.
Wolf Co., Chambersburg, Pa.

Woods, T. B. Sons, Chambersburg, Pa.
Woonsocket Machine & Press Co., Woonsocket, R. I.

Pulleys (Ceiling)

Automatic Damper Co. ("Star" Ball Bearing, with Adjustable Guards), Milwaukee, Wis.

Pennsylvania Hardware Co., Reading, Pa.
Pieuger & Henger Mfg. Co., 11th & Hebert, St. Louis, Mo.

Reading Hardware Co., Reading, Pa.
Stowell Mfg. & Foundry Co., South Milwaukee, Wis.

Pulleys (Clothes Line)

Browne & Dowd Mfg. Co., Meriden, Conn.
National Novelty Corporation ("Brighton"), 826 B'way, New York

Pulleys (Cone)

BROWN, A. & F. CO., 25 Dey, New
York. Works, Elizabethport, N. J. (See adv. index, end of book)

Cresson, Geo. V. Co., Allegheny av, W of 17th,
Phila., Pa., & 141 Liberty, New York

DODGE MFG. CO., Mishawaka, Ind.
(See adv. index & branch offices, end of book)

Evans, Geo. F., Newton Centre, Mass.
Hartford Machine Screw Co., Hartford, Conn.

LANE MFG. CO., Montpelier, Vt.
(See adv. index, end of book)

Osgood & Baker, Bellows Falls, Vt.
Poole Engineering & Machine Co., Woodberry Station, Baltimore, Md.

Woonsocket Machine & Press Co., Woonsocket, R. I.

Pulleys (Fibre)

Xylotite Product Co. ("Xylotite"), Cincinnati, O.

Pulleys (Flange)

AMERICAN PULLEY CO. (Flanged,
"American"), 29th & Bristol, Phila., Pa.
(See adv. index & branch offices, end of book)

BROWN, A. & F. CO., 25 Dey, New
York. Works, Elizabethport, N. J. (See adv. index, end of book)

Cresson, Geo. V. Co., Allegheny av, W of 17th,
Phila., Pa., & 141 Liberty, New York

DODGE MFG. CO., Mishawaka, Ind.
(See adv. index & branch offices, end of book)

Falls Rivet & Machine Co., Cuyahoga Falls, O.

Jones & Laughlin Steel Co., Pittsburg, Pa.

MINNEAPOLIS STEEL & MACHINERY
Co., Minneapolis, Minn. (See adv. index & branch offices, end of book)

Nordyke & Mamon Co., Indianapolis, Ind.
Poole Engineering & Machine Co., Woodberry Station, Baltimore, Md.

*Pulleys (Flanged "American")

AMERICAN PULLEY CO., 29th &
Bristol, Phila., Pa. (See adv. index, end of book)

Pulleys (Friction Clutch)

(See also Clutches, Friction.)

AMERICAN WELL WORKS, Aurora,
Ill. (See adv. index & branch offices, end of book)

Automatic Clutch Co. (Automatic), Akron, O.
Barnard & Lens Mfg. Co., Moline, Ill.

BLISS, E. W. CO., 19 Adams, Brook-
lyn, N. Y. (See adv. index, end of book)

BROWN, A. & F. CO., 25 Dey, New
York. Works, Elizabethport, N. J. (See adv. index, end of book)

Brown Clutch Co., Elyria, O.
Brown & Sharpe Mfg. Co. (Self-Oiling), Providence, R. I.

Caldwell, H. W. & Son Co., Western av & 17th,
Chicago, Ill.

Cresson, Geo. V. Co., Allegheny av, W of 17th,
Phila., Pa.

Carrouthers-Fithian Clutch Co., Grove City, Pa.
Diamond Iron Works ("Wilkinson"), Minneapolis, Minn.

DODGE MFG. CO., Mishawaka, Ind.
(See adv. index & branch offices, end of book)

Eastern Machinery Co., New Haven, Conn.
Exeter Machine Works, Pittston, Pa.

Falls Rivet & Machine Co., Cuyahoga Falls, O.

Friction Pulley & Machine Works (Noiseless Success Screen), Sandy Hill, N. Y.

Garland, M. Co. (Clutch), Bay City, Mich.
Gifford-Wood Co., Hudson, N. Y., & Arlington, Mass.

Great Western Mfg. Co., Leavenworth, Kan.
Hill Clutch Co. (Solid & Split), ft 58th N W
Cleveland, O.

Hess, Snyder Co., Masillon, O.
Hunt, Rodney Machine Co., Orange, Mass.

Hunter, Jas. Machine Co., North Adams, Mass.
Hydraulic Press Mfg. Co., Mt. Gilead, O.

JEFFREY MFG. CO., Columbus, O.
(See adv. index & branch offices, end of book)

Jones, W. A. Foundry & Machine Co., 143 W
North av, Chicago, Ill.

Jones & Laughlin Steel Co., Pittsburg, Pa.
Kenyon, D. R. & Son, Raritan, N. J.

Kissinger & Son Co., Cincinnati, O.
Klein, Chas. C., 2850 N Marshall, Phila., Pa.

Link Belt Co., W 39th, c Stewart av, Chicago, Ill., & 299 B'way, New York

Medart Patent Pulley Co., 3500 DeKalb av, St. Louis, Mo.

MINNEAPOLIS STEEL & MACHINERY
Co., Minneapolis, Minn. (See adv. index & branch offices, end of book)

Minster Machine Co., Minster, O.
Moore & White Co., 15th & Lehigh av, Philadelphia, Pa.

New Era Gas Engine Co., Dayton, O.
New Haven Mfg. Co., New Haven, Conn.

Oesterlein Machine Co., 2850 Spring Grove av,
Cincinnati, O.

OIL WELL SUPPLY CO., 215 Water,
Pittsburg, Pa. (See adv. index, end of book)

Plamondon, A. Mfg. Co., 57 S Clinton, Chicago, Ill.

Poole Engineering & Machine Co., Woodberry Station, Baltimore, Md.

Pusey & Jones Co., Wilmington, Del.
Sandy Hill Iron & Brass Works ("Hercules"), Sandy Hill, N. Y.

Sellers, Wm. Co., 1600 Hamilton, Phila., Pa.
Sinclair-Scott Co., Wells & Patapsco, Baltimore, Md.

Skillin & Richards Mfg. Co. ("Muir's"), 147
Fulton, New York

Union Iron Works, 222 Market, San Francisco.
Whitman Mfg. Co. (For Gas & Gasoline Engines), Garwood, N. J.

Williams, Milton F. & Co., 2701 N B'way, St. Louis, Mo.

Wood's, T. B. Sons, Chambersburg, Pa.
Yocom, Jas. & Son, 145 N 2d, Phila., Pa.

Pulleys (Guide)

BROWN, A. & F. CO., 25 Dey, New
York. Works, Elizabeth, N. J. (See adv. index, end of book)

Cresson, Geo. V. Co., Allegheny av, W of 17th,
Phila., Pa.

DODGE MFG. CO., Mishawaka, Ind.
(See adv. index & branch offices, end of book)

Falls Rivet & Machine Co., Cuyahoga Falls, O., & 208 Fulton, N. Y.

Hunter, Jas. Machine Co., North Adams, Mass., & 70 Kilby, Boston, Mass.

Jones & Laughlin Steel Co., Pittsburg, Pa.
Poole Engineering & Machine Co., Woodberry Station, Baltimore, Md.

Toledo Foundry & Machine Co., Toledo, O.

Pulleys (Hay Fork)

Cheney, S. & Son (Scoville's), Manlius, N. Y.
 Cleveland Block Co., 163 River, Cleveland, O.
 Cronk & Carrier Mfg. Co., Elmira, N. Y.
 Dissinger, C. H. A. & Bro. (Safety Clutch),
 Wrightsville, Pa.
 Fayette Mfg. Co., Fayette, O.
 Goshen Mfg. Co., Goshen, Ind.
 Hunt, Helm, Ferris & Co. ("Star," "O. K.,"
 "Peerless"), Harvard, Ill.
 Janesville Hay Tool Co., 59 Clark, Chicago, Ill.
 Kupferle, Jno. C. (Iron & Wood), c 2d & Mound,
 Lawrence Bros., Sterling, Ill.
 Loudon Machinery Co., Fairfield, Ia.
 Mason, F. C. & Co., St. Johns, Mich.
 Milwaukee Hay Tool Co., Milwaukee, Wis.
 Myers, F. E. & Bro., Ashland, O.
 National Novelty Corp., 826 B'way, New York
NATIONAL SUPPLY CO., 7 W Lom-
bard, Baltimore, Md. (See adv. index, end
 of book)
 Ney Mfg. Co., Canton, O.
 Ney, V. L. Co., Canton, O.
 Peck, Stow & Wilcox Co., Southington, Conn.
 Penn Hardware Co., Reading, Pa.
 Pleuger & Henger Mfg. Co., 11th & Hebert, St.
 Porter, J. E. Co., Ottawa, Ill. Louis, Mo.
 Reading Hardware Co., Reading, Pa.
 Ricker, W. G., Rochester, N. Y.
 Rock River Machine Co., Janesville, Wis.
 St. Mary's Machine Co. (Clutch), St. Mary's, O.
 Stowell Mfg. & Foundry Co. ("Stowell," Anti-
 Friction & Common), South Milwaukee,
 Wis.
 Susquehanna Casting Co., Wrightsville, Pa.
 Swineford, G. A., Co., Canton, O.
 U. S. Wind Engine & Pump Co., Batavia, Ill.
 Weller Hardware & Foundry Co., Horseheads,
 N. Y.
WHITMAN & BARNES MFG. CO.
 (Hay, Sling, etc.), Chicago, Ill. See adv.
 index & branch offices, end of book)
 Wrightsville Hardware Co., Wrightsville, Pa.

Pulleys (Iron Split)

BROWN, A. & F. CO., 25 Dey, New
 York. Works, Elizabethport, N. J. (See
 adv. index, end of book)
DODGE MFG. CO., Mishawaka, Ind.
 (See adv. index & branch offices, end of book)
MINNEAPOLIS STEEL & MACHIN-
 ery Co., Minneapolis, Minn. (See adv. in-
 dex & branch offices, end of book)
 Standard Pulley Co., 466 Pioneer, Cincin-
 nati, O.
TUOHY BROS. CO., 95 Liberty, New
 York. (See adv. index, end of book)
 Valley Iron Works, Williamsport, Pa.

Pulleys (Loose)

AMERICAN WELL WORKS (also
 Tight), Aurora, Ill. (See adv. index &
 branch offices, end of book)
BROWN, A. & F. CO., 25 Dey, New
 York. Works, Elizabethport, N. J. (See
 adv. index, end of book)
DODGE MFG. CO., Mishawaka, Ind.
 (See adv. index & branch offices, end of book)
 McCaffrey, John, Lawrence, Mass.
MINNEAPOLIS STEEL & MACHIN-
 ery Co., Minneapolis, Minn. (See adv. in-
 dex, end of book)
 Nordyke & Marmon Co. (Also Tight), Indianap-
 olis, Ind.
 Valley Iron Works, Williamsport, Pa.
 Wilmarth & Morman Co. ("Nelson"), Grand
 Rapids, Mich.

Pulleys (Machine Moulded)

BROWN, A. & F. CO., 25 Dey, New
 York. Works, Elizabethport, N. J. (See
 adv. index, end of book)
DODGE MFG. CO., Mishawaka, Ind.
 (See adv. index & branch offices, end of book)
 Jones, W. A. Foundry & Machine Co., 143 W
 North av, Chicago, Ill.
 McLagon Foundry Co., New Haven, Conn.
 Standard Pulley Co., 466 Pioneer, Cincin-
 nati, O.
 Standard Pulley & Fdy. Co., 1228 Collins, St.
 Louis, Mo.

Pulleys (Paper)

Rockwood Mfg. Co., 1801 English av, Indianap-
 olis, Ind.

Pulleys (Pressed Steel)

AMERICAN PULLEY CO. (Split), 29th
 & Bristol, Phila., Pa. (See adv. index &
 branch offices, end of book)
 Latshaw Pressed Steel & Pulley Co. ("Lat-
 shaw"), Pittsburg, Pa.
 Oneida Steel Pulley Co. (Split), Oneida, N. Y.
 Philips Pressed Steel Pulley Works ("Philips"),
 4th & Glenwood av, Phila., Pa.
STRONG, CARLISLE & HAMMOND
 Co. ("The American"), 333-344 Frankfort
 av., N. W., Cleveland, O. (See adv. in-
 dex, end of book)

Pulleys (Pressed Steel Split)

AMERICAN PULLEY CO., 29th c.
 Bristol, Phila., Pa. (See adv. index, &
 branch offices, end of book)
 Latshaw Pressed Steel & Pulley Co. ("Lat-
 shaw"), Pittsburg, Pa.

Pulleys (Sash)

(See Sash Pulleys.)

Pulleys (Screw)

Judd, H. L. Co., 87 Chambers, N. Y.
 Ney Mfg. Co., Canton, O.
 Peck, Stow & Wilcox Co., Southington, Conn.
 Pennsylvania Hardware Co., Reading, Pa.
 Reading Hardware Co., Reading, Pa.
 Russell & Erwin Mfg. Co., New Britain, Conn.,
 & 43 Chambers, N. Y.
 Stover Mfg. Co., Freeport, Ill.

Pulleys (Self-Oiling)

BROWN, A. & F. CO., 25 Dey, New
 York. Works, Elizabethport, N. J. (See
 adv. index, end of book)
 Cowdrey, C. H. Machine Works, Fitchburg,
 Mass.
 Luther, B. G. & Co., Worcester, Mass.
WHITMAN & BARNES MFG. CO.,
 Chicago, Ill. (See adv. index & branch
 offices, end of book)

Pulleys (Show Case)

Gardner Sash Balance Co. (Bail Bearing),
 164 Dearborn, Chicago, Ill.
GRANT PULLEY & HARDWARE
 Co., 35 Warren, New York. (See adv.
 index & branch offices, end of book)

Pulleys (Speed Changing)

Speed Changing Pulley Co., Indianapolis, Ind.

Pulleys (Vertible Speed)

Ludlow Valve Mfg. Co. (Sturgess Engineering
 Dept.) ("Sturgess"), Troy, N. Y.

Pulleys (Wood Rim)

Chase Pulley Co. (Iron Hub & Arms), Provi-
 dence, R. I.
DODGE MFG. CO., Mishawaka, Ind.
 (See adv. index & branch offices, end of book)
 Keasey Pulley Co., Toledo, O.
 Oneida Steel Pulley Co. (Steel Centre), Oneida,
 N. Y.
 Reeves Pulley Co. ("Reeves" Iron Spider), Co-
 lumbus, Ind.

Pulleys (Wood Split)

Barnard & Leas Mfg. Co., Moline, Ill.
BROWN, A. & F. CO., 25 Dey, New
 York. Works, Elizabeth, N. J. (See adv.
 index, end of book)
 Burlingame, A. Co., Worcester, Mass.
 Chase Pulley Co. (Wood Rim, with Iron Hubs &
 Arms), Providence, R. I.
 Detroit Wood Pulley Co., Bellevue & Kirby
 av, Detroit, Mich.
DODGE MFG. CO. ("Independence"), Mi-
 shawaka, Ind. (See adv. index & branch
 offices, end of book)
 Eclipse Wood Pulley Co., Berlin, Pa.
 Forster Pulley Works ("Forster," also Estes
 Combination Split Pulleys), Cuba, N. Y.
 Keasey Pulley Co. (Malleable Iron Centre),
 Toledo, O.
 Menasha Wood Split Pulley Co., Menasha, Wls.

Ohio Pulley Co. ("Buckeye"), Marion, O.
 Ohio Valley Pulley Works (The Limestone),
 Maysville, Ky.
 Phenice Mfg. Co. ("The Phenice"), Tacoma,
 Wash.
 Reading Wood Pulley Co. (Wood Rim & Wood
 Centre & Wood Rim & Iron Centre),
 Reading, Pa.
 Reeves Pulley Co., Columbus, Ind.
 Saginaw Mfg. Co. ("Gilbert"), Saginaw, Mich.
 South Bend Pulley Co., South Bend, Ind.
STRONG, CARLISLE & HAMMOND
 Co. ("The Reeves"), 333-344 Frankfort
 av., N. W., Cleveland, O. (See adv. in-
 dex, end of book)
 Taper Sleeve Pulley Works ("Adams" & "Tor-
 uado"), Erie, Pa.
TUOHY BROS. CO., 95 Liberty, New York.
 (See adv. index, end of book)

Pulleys (Wrought Steel)

AMERICAN PULLEY CO. ("Amer-
 ican" Whole Steel), 29th & Bristol, Phila.,
 Pa. (See adv. index & branch offices, end
 of book)
 Davenport Foundry & Machine Co. (Split),
 Davenport, Ia.
 Federal Mfg. Co. ("Hercules" Steel Face,
 Wood Center), Milwaukee, Wis.
 Mecse & Gottfried Co. (Wrought Rim), 167 Fre-
 mont, San Francisco, Cal.
 Medart Patent Pulley Co. (Wrought Rim), 3500
 De Kalb, St. Louis, Mo.
STRONG, CARLISLE & HAMMOND
 Co. ("The American"), 333-344 Frankfort
 av., N. W., Cleveland, O. (See adv. in-
 dex, end of book)
TUOHY BROS. CO., 95 Liberty, New York.
 (See adv. index, end of book)

Pulleys & Stands (Band Saw)

Covel Mfg. Co., Benton Harbor, Mich.

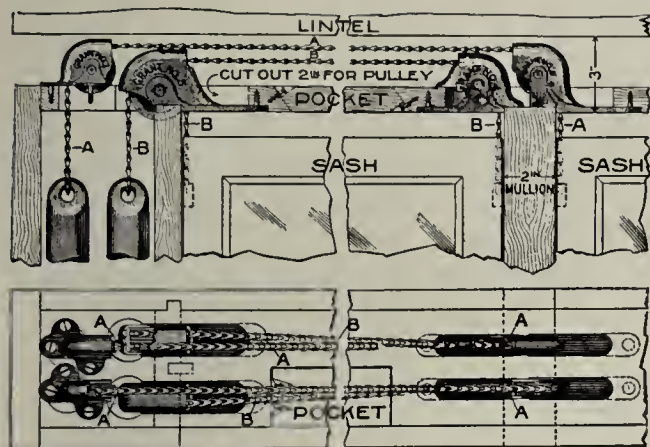
Pulls (Closet)

BERNZ, OTTO (Ivory, Amber, Metal &
 Wood), S. 13th & S. Orange av., Newark,
 N. J. (See adv. index, end of book)
 Boekel, Wm. & Co., 518 Vine, Phila., Pa.
 Emery, Wm. S. (Wood), 78 Cliff, New York
 Ideal Mfg. Co. (Wood), Detroit, Mich.
 Ireland & Matthews Mfg. Co. (Metal), Detroit,
 Mich.
 Lipp, Louis Co., Mitchell av & B. & O. S. W.
 R. R., Cincinnati, O., & 104 High, Boston,
 Mass.
 Maddock, John & Sons (Porcelain), Trenton,
 N. J.
 Maddock, Thos. Sons Co. (Porcelain), Tren-
 tou, N. J.
 Mott, J. L., Iron Works (Porcelain), 118 5th
 av., N. Y.
 Mueller, H. Mfg. Co. (Wood), Decatur, Ill.
 Smith & Egge Mfg. Co. (Wood), Bridgeport,
 Conn.
 Stortz, John & Son, 210 Vine, Phila., Pa.
 Trenton Potteries Co. (Porcelain), Trenton, N.J.
 Union Brass & Metal Mfg. Co. (Wood), St.
 Paul, Minn.
 Warner, A. H. & Co. (Water Closet), Bristol,
 Conn.
 Williams & Marvin Mfg. Co. (Wood), Deep
 River, Conn.
 Young, Jos. H., 80 High, Boston, Mass.

Pulls (Door)

Arcade Mfg. Co., Freeport, Ill.
 Brewer Bros. (Wrought), 614 Filbert, Phila.,
 Pa.
 Chicago Spring Butt Co., 54 Union Park Pl.,
 Chicago, Ill.
 Columbian Hardware Co. ("Columbian" &
 "Gem"), Coe & Hamilton, Cleveland, O.;
 168 Church st., New York, N. Y.
 Cronk & Carrier Mfg. Co., Elmira, N. Y.
 Corbin, P. & F., New Britain, Conn.
 Mallory Wheeler Co., New Haven, Conn.
NATIONAL SUPPLY CO., 7 W Lom-
bard, Baltimore, Md. (See adv. index, end
 of book)
 Norwalk Lock Co., South Norwalk, Conn.
 Penn Hardware Co., Reading, Pa.
 Peters, Jas. & Son (Wrought Iron), 1934 N.
 Front, Phila., Pa.
 Reading Hardware Co., Reading, Pa.
 Russell & Erwin Mfg. Co., New Britain, Conn.
 Sargent & Co., New Haven, Conn., & 94 Cen-
 tre, New York
 Shelby Spring Hinge Co. (Steel), Shelby, O.
 Stover Mfg. Co., Freeport, Ill.

The Grant Overhead Pulley



Grant Pulleys for Twin Windows.

The overhead pulley obviates the use of lead weights as it gives more pocket room. These pulleys can be used in single, mullion, triplet and quadruple windows.



The Turner Patent Anti-Friction Drawer Slides and Supports

They are the only drawer slides on the market that are absolutely noiseless. A drawer fitted with the Turner Attachment cannot fall from the case when pulled out suddenly.

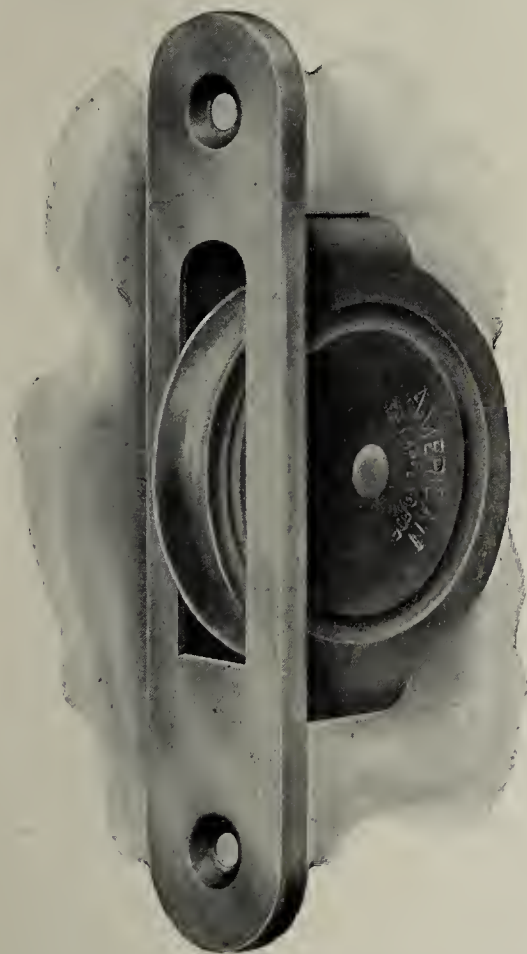
SEND FOR NEW CATALOGUE

GRANT PULLEY & HARDWARE CO.

Address all Inquiries to 35 Warren Street.

Offices : 35 WARREN STREET, NEW YORK

Products of The American Pulley Co., Philadelphia, Pa.



AMERICAN ALL WROUGHT SASH PULLEYS

Finest product ever offered to the Public. ♣ Made with Plain Axles, Roller Bearings and Ball Bearings.

COMBINATION GROOVE FOR CHAIN OR CORD

FULLY GUARANTEED

SAMPLES AND PRICES UPON APPLICATION

The American Pulley Co.

29th and Bristol Streets, :: PHILADELPHIA, PA.



LABOR SAVING APPLIANCES, TOOLS^{and} SUPPLIES

We have the best facilities in this country for furnishing to our subscribers, free of charge, the names and addresses of the leading manufacturers of the latest improved machinery, tools and appliances etc., for working and handling all kinds of metal, wood, stone, slate, earth, minerals, etc., such as :

**Air, Gas and Gasoline Compressors
Cranes for all purposes
Pneumatic Tools and Appliances
Derricks, Hand or Power
Hoists, Hand or Power
Elevators, Electric, Hydraulic, etc.
Excavators and Dredges
Conveyors for all kinds of materials
Castings of all kinds
Steam Shovels
Machine or Hand Tools
Machinery for all Purposes
Engines for all Purposes
Electric Generators and Motors
Drills for all Purposes
Power Transmission
Agricultural Implements
Locomotives, Cars, etc.
Tools of Every Description.**

**Complete equipment for Railroad,
Machine Shop, Foundry, Mine, Quarry
Mill, Factory, Electric and Gas Light-
ing, etc., in fact everything wanted for
manufacturing plants or to carry out econ-
omically large contracts.**

**S. E. HENDRICKS CO.,
74 Lafayette St., NEW YORK**



Weller Hardware & Foundry Co., Horseheads, N. Y.
Western Brass Mfg. Works (Cast Brass or Bronze), 21st & Rockwell, Chicago, Ill.
Wire Goods Co., Worcester, Mass.
Yale & Towne Mfg. Co., 9 Murray, New York.
Works: Stamford, Conn.

Pulls (Drawer)

Arcade Mfg. Co., Freeport, Ill.
Champion Safety Lock Co., Geneva, O.
Corbin Cabinet Lock Co., New Britain, Conn.
Foster, Merriam & Co., Meriden, Conn.
Griffin Mfg. Co., Erie, Pa.
National Novelty Corp., 826 B'way, New York
Penn Hardware Co., Reading, Pa.
Piqua Handle & Mfg. Co., Piqua, O.
Reading Hardware Co., Reading, Pa.
Rowe, Henry, Mfg. Co., Newaygo, Mich.
Shelby Spring Hinge Co. (Steel, Bronze or Brass Metal, Polished), Shelby, O.
STANLEY WORKS, New Britain, Conn., & 79 Chambers, New York. (See adv. index, end of book)
Stover Mfg. Co., Freeport, Ill.
Voelkner & Reinke Mfg. Co. (Polished Brass), 123 W. Woodbridge, Detroit, Mich.
Western Brass Mfg. Works (Cast Brass or Bronze), 21st & Rockwell, Chicago, Ill.
Wire Goods Co., Worcester, Mass.
Wrightsville Hardware Co., Wrightsville, Pa.
Yale & Towne Mfg. Co., 9 Murray, New York

Pulls (Screen Door)

Brooks, M. S. & Sons (Also Ring Shade Pulls), Chester, Conn.
Hunt, Helen, Ferris & Co. ("Star," "Handy"), Harvard, Ill.
Kohler, F. E. & Co., Canton, O.
Stover Mfg. Co., Freeport, Ill.
Troy Nickel Works (John E. Gaitley, Prop'r.) ("Alaska"), Albany, N. Y.

Pulp (Asbestine)

International Pulp Co., Times bldg, New York

Pulpit and Altar Rails

Disbrow, M. A. & Co. (Wholesale Mfrs.), Lyons, Ia.
Hyde-Murphy Co., Ridgway, Pa.
McMillen, R. Co. (Wholesale Mfrs.), Oshkosh, Wis.
Rock Island Sash & Door Works (Wholesale Mfrs.), Rock Island, Ill.
STEARNS, A. T. LUMBER CO., Nep-onset, Boston, Mass. (See adv. index, end of book)

Pulverizers

(See Crushers, various kinds; also Pulverizing Machinery; also Mills, Grinding)

Pumice Brick (Purified)

HARRISON SUPPLY CO., 5 & 7 Dorchester ter av., Extension, Boston, Mass. (See adv. index, end of book)

Pumice Stone Importers

Behr, Herman & Co., 75 Beekman, N. Y.
Doggett, Stanley, 101 Beekman, New York.
Hammill & Gillespie, 240 Front, N. Y.
HARRISON SUPPLY CO. (Selected Lump), 5 & 7 Dorchester av., Extension, Boston, Mass. (See adv. index, end of book)
Van Amringe, Theo., 97 Beekman, N. Y.
Waddell & Co., 52 Beekman, New York

Pump Governors

(See Governors, Pump).

Pumping Engines (Hot Air)

(See Engines, Hot Air Pumping).

Pumping Machinery

(See Machinery, Pumping; also Pumps, Various Kinds.)

Pumping Outfits for Oil, Gas & Water Wells

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)

OIL WELL SUPPLY CO., 215 Water, Pittsburg, Pa. (See adv. index, end of book)
Tate, Jones & Co. (Inc.), Empire bldg, Pittsburg, Pa.

Pumping Outfits (Horse Power)

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)
Appleton Mfg. Co., Batavia, Ill.
Challenge Co., Batavia, Ill.
Deming Co., Salem, O.
GOULDS MFG. CO., Seneca Falls, N. Y. (See adv. index & branch offices, end of book)
Myers, F. E., & Bro., Ashland, O.
RUMSEY & CO. (Ltd.), Seneca Falls, N. Y. (See adv. index & branch offices, end of book)
St. Joseph Pump & Mfg. Co., St. Joseph, Mo.
U. S. Wind Engine & Pump Co., Batavia, N. Y.

Pumping Outfits (Odorless)

Edson Mfg. Co., 257 Atlantic av., Boston, Mass.
GOULDS MFG. CO., Seneca Falls, N. Y. (See adv. index & branch offices, end of book)
Noble, H. A. ("National" & "The Improved"), 203 Dock, Phila., Pa.

Pumps (Acid)

GOULDS MFG. CO., Seneca Falls, N. Y. (See adv. index & branch offices, end of book)
National Foundry & Machine Co., Louisville, Ky.
PITTSBURG VALVE, FOUNDRY & CON-struction Co., 26th & A. V. Ry., Pitts-burg, Pa. (See adv. index, end of book)
Union Steam Pump Co., Battle Creek, Mich.
Wells, F. C. (Est. of), 116 S Clinton, Chicago, Ill.

Pumps (Air)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)
American Electric Pump Co. (Automatic Elec-tric), 220 Penna. av., Pittsburg, Pa.
American Steam Pump Co., Battle Creek, Mich.
AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)
Barr Pumping Engine Co., Gtn. Junction, Phila., Pa.
Asbell, S. J. Co. (Hand), Paterson, N. J.
Bishop & Babcock Co. (Hand), Hamilton av., Cleveland, O.
Blakeslee Mfg. Co., Du Quoin, Ill.
Buffalo Steam Pump Co. (Hand Circulating), Buffalo, N. Y.
Burton & Johnson, 107 W Centre, Cleveland, O.
Cameron, A. S. Steam Pump Works, ft E 23d, New York
Canton-Hughes Pump Co., Canton & Cleve-land, O.
Clayton Air Compressor Works, 114 Liberty, N. Y.
Columbus Steam Pump Works, Columbus, O.
Comstock, A. S. (Motor Driven), Evanston, Ill.
Crowell, Gilmer ("Crowell" Rotary), 292 Gra-ham, Brooklyn, N. Y.
Davidson, M. T. (Single & Twin Cylinder, etc.), 141 B'way, New York; 43 Keap, Brooklyn, N. Y.
Dean Bros.' Steam Pump Works (Twin Cylinder), Deming Co., Salem, O.
Douglas, W. & B., Middletown, Conn.; 83 John, New York
Dow, Geo. E. Pumping Co., 179 1st, San Fran-cisco, Cal.
Economic Power & Pump Co., 1907 Park av., New York
Eller & Stowell Co., Home Office, Milwaukee, Wis.
FOSTER PUMP WORKS, 224 Ply-mouth, Brooklyn, N. Y.
Fritsch, Francis Mfg. Co., Cincinnati, O.
Garratt, W. T. & Co., San Francisco, Cal.
Gleason-Peters Air Pump Co., 181 Mercer, New York
Globe Brass Co., 13 Macomb st., Detroit, Mich.
GOULDS MFG. CO., Seneca Falls, N. Y. (See adv. index & branch offices, end of book)
Green Compressed Air Co. ("Green"), Cam-den, N. J.
Harris Air Pump Co., Lombard bldg., Indian-apolis, Ind.
Hess, Snyder Co. (Hand), Massillon, O.
Humphries Mfg. Co. (Automatic), Mansfield, Ohio

International Steam Pump Co., 114 Liberty, N. Y.
Lawler Water, Feed & Damper Regulator Co., 158 Wooster, New York
Leather & Brass Mfg. Co. (Hand Air Pumps for Drawing Liquids), Auburn, N. Y.
Maschinenfabrik Grevenboich, 76 William, New York
McKenna Bros. Brass Co. (Brass), 1st av. & Ross, Pittsburg, Pa.
Manistee Iron Works, Manistee, Mich.
Mason Regulator Co., 158 Summer, Boston, Mass.
MINNEAPOLIS STEEL & MACHIN-ery Co., Minneapolis, Minn. (See adv. in-dex & branch offices, end of book)
National Foundry & Machine Co., Louisville, Ky.
N. Y. Air Brake Co., 66 B'way, New York, & Flsher bldg., Chicago, Ill.
Ohio Pump & Brass Co. ("Triumph," Physi-cians' & Surgeons' Hydraulic), 18th & Oak, Patten Bros. Co., Marietta, O.
Prescott, Fred M., Steam Pump Co., West Allis, Wis.
Roberts, Geo. I. & Bros. (Inc.), 473 4th av., New York

RUMSEY & CO. (Ltd.), Seneca Falls, N. Y. (See adv. index & branch offices, end of book)
Scott Valve Co., 331 Randolph, Chicago, Ill.
Strater, Herman & Sons (Beer), 74 Sudbury, Boston, Mass.
Sturgess Governor Engineering Co. (High Speed), Troy, N. Y.
Union Iron Works (and Condenser), San Fran-cisco, Cal.
Union Steam Pump Co. (Direct Acting), Battle Creek, Mich.
Varwig Mfg. Co. ("Varwig" Electric), 123 Liberty, N. Y. City
Warren Steam Pump Co. (and Condensers), War-ren, Mass.
Wells, F. C. (Est. of), 116 S Clinton, Chicago, Ill.
Wheeler, C. H., Mfg. Co. ("Mullan" suction, valveless, single, duplex & triple), Phila-delphia, Pa.
Wheeler Condenser & Engineering Co. ("Ed-wards," for Marine Engines), 42 B'way, N. Y.

Pumps (Air Chamber)

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)
Wilder, Sidney & Co., Holliston, Mass.

Pumps (Air Lift)

American Steam Pump Co., Battle Creek, Mich.
AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)
Clayton Air Compressor Works, 114 Liberty, N. Y.
Foster Pump Works, 224 Plymouth, Brook-lyn, N. Y.
GOULDS MFG. CO., Seneca Falls, N. Y. (See adv. index & branch offices, end of book)
Hall Steam Pump Co., Allegheny, Pa.
Hudson Engineering & Contracting Co., 92 William, New York
INGERSOLL-RAND CO. ("Pohle" & "Saunders"), 11 B'way, New York. (See adv index & branch offices, end of book)

Pumps (Air, Tire)

Auto Pump Co. ("Spencer") Springville, N. Y.
Beckley-Ralston Co., 178 Lake, Chicago, Ill.
Bishop & Babcock Co., Hamilton cor. Kirtland, Cleveland, O.
Braunsdorf-Muller Co. (Bicycle), Elizabeth, N. J.
Bride, Wm. J., & Co. ("Austin"), Reading, Mass.
Bridgeport Brass Co. ("Demo"), 253 B'way, New York
Bridgeport Gun Implement Co., Bridgeport, Conn.
Cleveland Faucet Co. ("Champion"), 17 Frank-fort, Cleveland, Ohio
Frost Mfg. Co. ("Forcair"), Kenosha, Wis.
Garage Equipment Co. ("Dash"), 12 31st, Milwaukee, Wis.
Gleason-Peters Air Pump Co., 181 Mercer, New York
Globe Brass Co., 13 Macomb, Detroit, Mich.
GOULDS MFG. CO., Seneca Falls, N. Y. (See adv. index & branch offices, end of book)
Heath-Quimby Co., Minneapolis, Minn.
Hurst, H. L. Mfg. Co. (Bicycle), Canton, O.

Judd & Leland Mfg. Co., Clifton Springs, N. Y.
 Ingersoll, Robt. H. & Bro. (Bicycle), 51
 Maiden la., N. Y.
 Imperial Brass Mfg. Co. ("Imperial-Wixon"),
 242 S Jefferson, Chicago, Ill.
 Leather & Brass Mfg. Co., Auburn, N. Y.
 Motor Car Specialty Co. ("Lea"), Trenton,
 N. J.
 Motor Car Supply Co. ("Wlndejammer"), 1427
 Michigan av, Chicago, Ill.
 Noera Mfg. Co., Waterbury, Conn.
 Nyberg Auto Works ("Tom"), 30th & Michi-
 gan av, Chicago, Ill.
 Post & Lester Co., 20 Sargent, Hartford, Conn.
 Rome Bicycle Mfg. Co. (Bicycle), Rome, N. Y.
RUMSEY & CO. (Ltd.), Seneca Falls,
N. Y. (See adv. index & branch offices, end
 of book)
 Scovill Mfg. Co., Waterbury, Conn.
 Skinner & Skinner ("Skinner"), 4133 Indiana
 av, Chicago, Ill.
 Smith, D. B. & Co. (Bicycle), Utica, N. Y.
 Stevens & Co. ("Ultra"), 99 Chambers, New
 York
 Turner Brass Works, 68 N Franklin, Chicago,
 Ill.
 Ultra Pump & Power Co. ("Ultra"), 31 Ex-
 change, Boston, Mass., & Auburn, N. Y.
 Union Steam Pump Co. (Air Feed), Battle
 Creek, Mich.
 Upton Motor Co., Lebanon, Pa.
 Waterbury Mfg. Co., Waterbury, Conn.
 Wray Pump & Register Co., Inc., 191 Mill,
 Rochester, N. Y.

Pumps (Ammonia)

(See also Pumps, Steam)

Buffalo Steam Pump Co., Buffalo, N. Y.
 Cameron, A. S., Steam Pump Works, foot E,
 23d, N. Y.
 Foster Pump Works, 224 Plymouth, Brook-
 lyn, N. Y.
GOULDS MFG. CO., Seneca Falls, N. Y.
 (See adv. index & branch offices, end of book)
 Guild & Garrison, Kent ave. & S. 10th,
 Brooklyn, N. Y.
 National Foundry & Machine Co., Louisville, Ky.
 National Steam Pump Co., Upper Sandusky, O.

Pumps (Artesian Well)

American Steam Pump Co., Battle Creek, Mich.
AMERICAN WELL WORKS, Aurora,
 Ill. (See adv. index & branch offices, end of
 book)
 Cook, A. D., Lawrenceburg, Ind. book)
 Cook-Well Co., 15 S 4th, St. Louis, Mo.
 Darling Pump & Mfg. Co. (Ltd.), Williamsport,
 Pa.
 Davidson, M. T. (Horizontal & Vertical), 43
 Keap, Brooklyn, N. Y., & 141 B'way, N. Y.
 Deming Co., Salem, O.
 Epping-Carpenter Co. (Direct Acting), Pitts-
 burg, Pa.
FAIRBANKS, MORSE & CO. (Gas,
 Gasoline & Oil), Franklin & Monroe, Chi-
 cago, Ill. (See adv. index & branch of-
 fices, end of book)
 Flint & Walling Mfg. Co., Kendallville, Ind.
FOSTER PUMP WORKS, 224 Ply-
 mouth, Brooklyn, N. Y.
GOULDS MFG. CO., Seneca Falls, N. Y.
 (See adv. index & branch offices, end of book)
 International Steam Pump Co., 114 Liberty,
 N. Y.

Jarecki Mfg. Co., Erie, Pa., & Pittsburgh, Pa.
 Luitwieler Pumping Engine Co. ("Non-Pul-
 sating Balanced"), Los Angeles, Cal.
 National Foundry & Machine Co., Louisville Co.
 National Steam Pump Co., Upper Sandusky, O.
OIL WELL SUPPLY CO., 215 Water,
 Pittsburgh, Pa. (See adv. index, end of book)
 Platt Iron Works Co., Dayton, O., & 100
 B'way, New York
RUMSEY & CO. (Ltd.), Seneca Falls, N. Y.
 (See adv. index & branch offices, end of book)
 Union Steam Pump Co., Battle Creek, Mich.
 U. S. Wind Engine & Pump Co., Batavia, Ill.
 Weinman Machine Works, Columbus, O.

Pumps (Automatic)

AMERICAN WELL WORKS ("Chapman")
 Water Intake to Drain Mines, Quarries,
 etc., for Shallow or High Lift), Aurora,
 Ill. (See adv. index & branch offices, end
 of book)
 Cameron, A. S. Steam Pump Works, ft E 23d,
 New York
GOULDS MFG. CO., Seneca Falls, N. Y.
 (See adv. index & branch offices, end of book)
QUIMBY, WM. E. (Inc.), 44-60 E.
 23rd, N. Y. (See adv. index, end of book)
 Weinman Machine Works, Columbus, O.

Pumps (Automobile)

(See also Pumps, Air, Tire.)
 (Also Pumps, Circulating.)

GOULDS MFG. CO. (Tire & Tank), Seneca
 Falls, N. Y. (See adv. index & branch
 offices, end of book)
LUNKENHEIMER CO. General Of-
 fices & Works, Beekman & Waverly, Cin-
 cinnati, O. (See adv. index & branch of-
 fices, end of book)
 Noera Mfg. Co., Waterbury, Conn.
QUIMBY, WM. E. (Inc.), 44-60 E.
 23rd, New York. (See adv. indev, end of
 book)
 Union Steam Pump Co. (Air Feed), Battle
 Creek, Mich.

*Pumps (Barrel)

WILSON, F. CORTEZ & CO., 239 Lake
 Chicago, Ill. (See adv. index & branch
 offices, end of book)

Pumps (Belt-Driven)

AMERICAN WELL WORKS, Aurora,
 Ill. (See adv. index & branch offices, end of
 book)
 Cameron, A. S. Steam Pump Works, ft. of E
 23d, New York
 Carbondale Machine Co., Carbondale, Pa.
 Deming Co., Salem, O.
FAIRBANKS, MORSE & CO., Frank-
 lin & Monroe, Chicago, Ill. (See adv. in-
 dex & branch offices, end of book)
GOULDS MFG. CO., Seneca Falls, N. Y.
 (See adv. index & branch offices, end of book)
MORRIS MACHINE WORKS, Bald-
 winsville, N. Y. (See adv. on following
 page)
 Pioneer Iron Works, 149 Pioneer, Brooklyn,
 N. Y.

QUIMBY, WM. E. (Inc.), 44-60 E.
 23rd, N. Y. (See adv. index, end of book)
RUMSEY & CO. (Ltd.), Seneca Falls, N. Y.
 (See adv. index, end of book)
 Van Wle Pump Co., 715 W Fayette, Syracuse,
 N. Y.
 Weinman Machine Works, Columbus, O.

Pumps (Bicycle)

(See Pumps, Air, Tire.)

Pumps (Bilge)

Blakeslee Mfg. Co. (Inc.), Du Quoin, Ill.
ABENDROTH & ROOT MFG. CO.
 (Spiral Riveted), Newburgh, N. Y. (See
 adv. index & branch offices, end of book)
 Buffalo Steam Pump Co., Buffalo, N. Y.
 Cameron, A. S., Steam Pump Works, foot E,
 23d, N. Y.
 Durkee, C. B. & Co. ("Wurk-E-Z-E"), 3
 South, New York
 Edson Mfg. Co., 255 Atlantic av, Boston, Mass.
 Epping-Carpenter Co., Pittsburgh, Pa.
FAIRBANKS, MORSE & CO., Frank-
 lin & Monroe, Chicago, Ill. (See adv. index
 & branch offices, end of book)
GOULDS MFG. CO., Seneca Falls, N. Y.
 (See adv. index & branch offices, end of book)
 Humphries Mfg. Co., Mansfield, O.
 Lobe Pump & Machinery Co., 127 Terrace,
 Buffalo, N. Y.
MORRIS MACHINE WORKS, Bald-
 winsville, N. Y. (See adv. on following
 page)
NATIONAL MFG. CO. ("Johnson"),
 Worcester, Mass.
 Prescott, Fred M., Steam Pump Co., West
 Allis, Wis.
RUMSEY & CO., Ltd. (Ships, Main &
 Bilge), Seneca Falls, N. Y. (See adv.
 index & branch offices, end of book)
 Sands, Alfred B. & Son Co., 242 Water, New
 York

Pumps (Boiler Feed)

Aetna Foundry & Machine Co., Springfield, Ill.
 American Steam Pump Co., Battle Creek, Mich.
AMERICAN WELL WORKS, Aurora,
 Ill. (See adv. index & branch offices, end of
 book)
 Baragwanath, Wm. & Son, 52 W. Division,
 Chicago, Ill.
 Barr Pumping Engine Co., 922 Gtn. Junction,
 Phila., Pa.
 Berry Engineering Co., Chester, Pa.
 Bishop, Wm. Sons (Brass & Copper), 205
 South, N. Y.
 Blakeslee Mfg. Co. (Inc.), Du Quoin, Ill., & Bir-
 mingham, Ala.
 Boyts, Porter & Co. (Special), Connellsvill, Pa.
 Buffalo Steam Pump Co., Buffalo, N. Y.
 Burtou & Johnson, 107 W Center, Cleveland, O.
 Cameron, A. S. Steam Pump Works, ft. E 23d,
 N. Y.
 Cameron Tennant Machine Works, Richmond,
 Va.
 Canton-Hughes Pump Co., Canton & Cleve-
 land, O.
 Carlin's, Thos. Sons Co., 1300 River av, Ai-
 legheny, Pa.

TO OUR ADVERTISERS AND SUBSCRIBERS.

At any time during the year, that you do not find classified in our book the names and addresses of the Manufacturers of any ARTICLE you are in the market to PURCHASE, please write us, giving as complete particulars as possible, and we will always endeavor to render you PROMPT SERVICE in furnishing you the names and addresses of such Manufacturers and without any cost or obligation. This does not include Mailing Lists.

S. E. HENDRICKS CO.

Clot & Christ Machine Co., 137 Beale, San Francisco, Cal.
Columbus Steam Pump Works, Columbus, O.
Crawford & McCrimmon Co., Brazil, Ind.
Davidson, M. T., 43 Keap, Brooklyn, N. Y.; 141 B'way, N. Y.
Davis, I. B. & Son, Hartford, Conn.
Dean Bros.' Steam Pump Works, Indianapolis Ind.

Deming Co. (Hand & Power), Salem, O.
Douglas, W. & B., Middletown, Conn.; 85 John, New York

Elgin Mfg. Co. ("Elgin" Geared), Elgin, Ill.
Epping-Carpenter Co., 41st & A. V. Ry., Pittsburgh, Pa.

FAIRBANKS, MORSE & CO., Franklin & Monroe, Chicago, Ill. (See adv. index & branch offices, end of book)

FOSTER PUMP WORKS, 224 Plymouth, Brooklyn, N. Y.

GARDNER GOVERNOR CO., Quincy, Ill. (See adv. index, end of book)

GOULDS MFG. CO., Seneca Falls, N. Y. (See adv. index & branch offices, end of book)

Great Lakes Engineering Works, Detroit, Mich.
Hall Steam Pump Co., Allegheny, Pa.

Helsier Mfg. Co., St. Marys, O.

Hill Machine Co., Anderson, Ind.

Hooker Steam Pump Co., St. Louis, Mo.

International Steam Pump Co., 114 Liberty, N. Y.

Jeansville Iron Works Co., Jeansville, Pa.

Kelley, Benj. F. & Son (Economical Boiler & Tank Feed Pumps), 120 Liberty, N. Y.

Kensington Engine Works (Ltd.), Beach & Vienna, Phila., Pa.

Kruger & Blind Co., 511 Master, Phila., Pa.

Lucas, C. O. & Co., Greenville, O.

McGowan, Jno. H. Co., 56 Central av, Cincinnati, O.

Manistee Iron Works Co., Manistee, Mich.

Marlon Machine & Tool Co., Marlon, Ind.

Mason Regulator Co., Boston, Mass.

MINNEAPOLIS STEEL & MACHINERY Co. (Belt Driven or Geared), Minneapolis, Minn. (See adv. index & branch offices, end of book)

Moline Pump Co. (Hand), Moline, Ill.

Myers, F. E. & Bro., Ashland, O.

Nason Mfg. Co., 71 Beekman, New York

National Foundry & Machine Co., Louisville, Ky.

National Steam Pump Co., Upper Sandusky, O.

Pattin Bros Co., Marietta, O.

PITTSBURG VALVE, FOUNDRY & CONSTRUCTION Co., 26th & A. V. Ry., Pittsburgh, Pa. (See adv. index, end of book)

Platt Iron Works Co., Dayton, O., & 100 Broadway, New York

Prescott, Fred. M., Steam Pump Co., West Allis, Wis.

Roberts, G. J. Co., Dayton, O.

Roots, P. H. & F. M. Co., Connorsville, Ind.

RUMSEY & CO. (Ltd.), Seneca Falls, N. Y. (See adv. index & branch offices, end of book)

SCAIFE, WM. B. & SONS CO., 221 1st av, Pittsburg, Pa. (See adv. index, end of book)

Scranton Steam Pump Co., Scranton, Pa.

Sherwood Mfg. Co. (Hand), 1702 Elmwood av, Buffalo, N. Y.

Smeallie Bros., Amsterdam, N. Y.

Stewart Heater Co., Buffalo, N. Y.

Union Steam Pump Co., Battle Creek, Mich.

Van Wie Pump Co., Syracuse, N. Y.

Wagener Steam Pump Co., Louisville, O.

Warren Steam Pump Co., Warren, Mass.
Weinman Machine Works, Columbus, Ohio.
Wells, F. C. (Est. of), 116 S Clinton, Chicago, Ill.

Wilson-Snyder Mfg. Co., Ross & Water, Pittsburgh, Pa.

Xander Machine & Supply Co. (Hand), Reading, Pa.

*Pumps (Boiler Testing)

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)

Cleveland Steam Gauge Co., 106 Merwin, Cleveland, O.

CROSBY STEAM GAGE & VALVE CO., 95 Oliver, Boston, Mass., & 16 Dey, New York. (See adv. index & branch offices, end of book)

Darling Pump & Mfg. Co. (Ltd.), Williamsport, Pa.

Deming Co., Salem, O.

Douglas, W. & B., Middletown, Conn.; 82 John, New York

GOULDS MFG. CO., Seneca Falls, N. Y. (See adv. index & branch offices, end of book)

Hender's, A. L. Sons, Wilmington, Del.

RUMSEY & CO. (Ltd.), Seneca Falls, N. Y. (See adv. index & branch offices, end of book)

SCHAEFFER & BUDENBERG MFG. Co., Foxboro, Mass. (See adv. index & branch offices, end of book)

Pumps (Brass)

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)

Barnes Mfg. Co., Mansfield, O.

Bishop's, Wm. Sons, 205 South, N. Y.

Bridgeport Brass Co., Bridgeport, Conn., & 19 Murray, New York

Crook-Horner Co., 303 N. Howard, Baltimore, Md.

Darling Pump & Mfg. Co. (Ltd.), Williamsport, Pa.

Deming Co., Salem, O.

Douglas, W. & B., Middletown, Conn.; 83 John, New York

GOULDS MFG. CO., Seneca Falls, N. Y. (See adv. index & branch offices, end of book)

Haydenville Co., Haydenville, Mass.

Huber, Henry Co., 244 5th av, N. Y.

Humphries Mfg. Co., Mansfield, O.

Illinois Malleable Iron Co., 30 W Monroe, Chicago, Ill.

Kirkup, Roht. & Co., 620 Lodge, Cincinnati, O.

Lawler Water Feed & Damper Regulator Co., 158 Wooster, New York

McDonald, A. Y. & Morrison Mfg. Co., Duquaque, Iowa

MORRIS MACHINE WORKS, Baldwinsville, N. Y. (See adv. below)

Murdock, J. G. & Co., 428 Plum, Cincinnati, Ohio

Reynolds, M. Plumbers' Supply Co., 25 Centre, N. Y.

RUMSEY & CO. (Ltd.), Seneca Falls, N. Y. (See adv. index & branch offices, end of book)

Union Mfg. Co., New Britain, Conn., & 103 Chambers, New York

Pumps (Brewery)

(See Pumps, Steam.)

Pumps (Brine)

(See also Pumps, Steam)

Buffalo Steam Pump Co., Buffalo, N. Y.

Cameron, A. S., Steam Pump Co., ft. E. 23d, New York

Deming Co., Salem, O.

National Foundry & Machine Co., Louisville, Ky.

GOULDS MFG. CO., Seneca Falls, N. Y. (See adv. index & branch offices, end of book)

Prescott, Fred M., Steam Pump Co., West Allis, Wis.

QUIMBY, WM. E. (Inc.) (Circulating), 44-60 E 23rd, New York, N. Y. (See adv. index, end of book)

PITTSBURG VALVE, FOUNDRY & CONSTRUCTION Co., 26th & A. V. Ry., Pittsburgh, Pa. (See adv. index, end of book)

Pumps (Centrifugal)

Alberger Condenser Co. (Steam or Motor Driven), 95 Liberty, New York, N. Y.

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)

Barnes Mfg. Co., Mansfield, O.

Barry & Zecher Co. (for Tanners), Lancaster, Pa.

Boggs & Clarke (also Geared Centrifugal Steam Pumps & Tandem or Compound), Syracuse, N. Y.

Bucyrus Co. (Dredging), South Milwaukee, Wis.

Buffalo Forge Co., Buffalo, N. Y.

Buffalo Steam Pump Co. (and "Cooley" Rotary Engine), Buffalo, N. Y.

Burroughs, Chas. Co., 141 Commerce, Newark, N. J.

Carlin Machy. & Supply Co., Allegheny, Pa.

Carlin's, Thos. Sons Co., 1300 River av, Allegheny, Pa.

Charleston Iron Works, Charleston, S. C.

Clot & Christ Machine Co., 137 Beale, San Francisco, Cal.

Craft, Jesse, 260 Front, New York.

Davis-Johnson Co., 9 S Canal, Chicago, Ill.

Dayton Hydraulic Machinery Co. ("Brooks"), Dayton, O.

De Laval Steam Turbine Co., Trenton, N. J.

Deming Co., Salem, O.

Douglas, W. & B., Middletown, Conn.; 83 John, New York

Edwards, Jos. & Co. ("Cataract"), 412 Water, New York

Emerson Mfg. Co., Lawrence, Mass.

Erie Pump & Engine Co., Erie, Pa.

Friction Pulley & Machine Works, (for Paper Mills, etc.), Sandy Hill, N. Y.

Fulton Mach. & Vise Co. ("Fulton"), Lowville, N. Y.

Garratt, W. T. & Co., 142 Fremont, San Francisco, Cal.

GOULDS MFG. CO., Seneca Falls, N. Y. (See adv. index & branch offices, end of book)

Great Lakes Engineering Works (Large Capacity), Rivard & Detroit River, Detroit, Mich.

Haslehurst, W. W., 2122 Folsom, San Francisco, Cal.

Humphries Mfg. Co. (for Contractors), Mansfield, O.

Hunt, Rodney Machine Co., Orange, Mass.

International Steam Pump Co., 114 Liberty, New York



MORRIS MACHINE WORKS

BALDWINVILLE, N.Y., U.S.A.

Centrifugal Pumping Machinery

OLDEST, LARGEST AND STRONGEST CONCERN OF ITS KIND IN AMERICA. *WE INVITE CORRESPONDENCE*

NEW YORK OFFICE - 39 - 41 CORTLANDT ST.

CHICAGO OFFICE 61-69 NO. JEFFERSON ST.

ESTABLISHED

1864

Jackson Byron Machine Works, 411 Market, San Francisco, Cal.
 Jeansville Iron Wks. Co., Hazelton, Pa.
 Kansas City Hay Press Co., Kansas City, Mo.
 Kingsford Foundry & Machine Works, Oswego, N. Y.
 Krogh Mfg. Co., San Francisco, Cal.
 Lake City Engineering Co., Erie, Pa.
 Lawrence Machine Co., Lawrence, Mass.
 Lawrence Pump & Engine Co., Lawrence, Mass.

Luitwieler Pumping Engine Co. ("Deep Well"), Los Angeles, Cal.

Maslin, Jno. & Son, 163 1st, Jersey City, N. J.
 Morris, I. P. Co., Beach & Ball, Phila., Pa.

MORRIS MACHINE WORKS, Baldwinsville, N. Y. (See adv. on preceding page)

Portage Lake Foundry & Machinery Co. (for Mines), Hancock, Mich.

Prescott, Fred M., Steam Pump Co., West Allis, Wis.

Reliance Machine & Tool Works, 3341 Franklin av., St. Louis, Mo.

RUMSEY & CO. (Ltd.), Seneca Falls, N. Y. (See adv. index & branch offices, end of book)

SHAW, WILLIS, 171 LaSalle, Chicago. (See adv. index, end of book)

Sirocco Engineering Co., West Street Bldg., New York

Southwark Foundry & Machine Co., Washington av & 5th, Phila., Pa.

Tod, Wm. Co. (for Sewerage & Drainage), Youngstown, Pa.

Toledo Foundry & Machine Co., Toledo, O.

Union Elevator & Machine Co., 144 Ontario, Chicago, Ill.

United Iron Works ("Eclipse" & Step Pressure), 32 Fremont, San Francisco, Cal.

Van Wie Pump Co., Syracuse, N. Y.

Wheeler Condenser & Engineering Co. ("Wheeler" Improved), 42 B'way, New York

Wood, R. D. & Co. (High Grade Direct Connected or Belt Driven), 400 Chestnut, Phila., Pa.

Yeatman, John A. & Co. (Eclipse), 13 1st, San Francisco, Cal.

Pumps (Centrifugal, Water Tank)

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)

Brown & Sharpe Mfg. Co., Providence, R. I.
 Urie Boiler & Machine Co., Kansas City, Mo.

Pumps (Chain)

American Pump & Supply Co., Toledo, O.
 Bellevue Pump Co., Bellevue, Ia.
 Biggs, B. F. Pump Co., Lafayette, Ind.
 Bucket Pump Co., Cincinnati, O.
 Bushnell Pump Co., Bushnell, Ill.
 Cedar Rapids Pump Co., Cedar Rapids, Ia.
 Cernstock & Coonse Co., Indianapolis, Ind.
 Douglass-Clark Co., Lafayette, Ind.

GOULDS MFG. CO., (Chain Driven), Seneca Falls, N. Y. (See adv. index and branch offices, end of book)

Gregory & Walker, Norwalk, O.
 I. X. L. & Goshen Pump Co., Goshen, Ind.
 King, M. J. & Son, Collins Centre, N. Y.
 McDonald, A. Y. & Morrison Mfg. Co., DuPont Bros., Evansville, Ind.
 St. Joseph Pump & Mfg. Co., St. Joseph, Mo.
 Temple Pump Co., Chicago, Ill.
 Union Mfg. Co., New Britain, Conn.
 Wyckoff, A. & Son Co., Elmira, N. Y.

Pumps (Circulating)

A. Z. Co., 462 11th av., New York
 Auto Brass & Aluminum Co., Flint, Mich.
 Auto & Power Appliance Co., Cleveland, Ohio.
 Bock & Severin ("Advance"), Chicago, Ill.
 Brennan Mfg. Co., Syracuse, N. Y.
 Briscoe Mfg. Co., 1427 Woodward av., Detroit, Mich.

Brown & Sharpe Mfg. Co., Providence, R. I.
 Byrne-Kingston & Co. ("Kingston"), Kokomo, Ind.

Buffalo Steam Pump Co., Buffalo, N. Y.
 Cambria Forge Co., Johnstown, Pa.

Dyke, A. L., Automobile Supply Co., Olive & Walton, St. Louis, Mo.

Essex, G. B., Brass Co., 480 Franklin, Detroit, Mich.

Garvin Machine Co., Spring & Varick, New York

Globe Mach. & Stamping Co., 970 Hamilton,

GOULDS MFG. CO., Seneca Falls, N. Y. (See adv. index & branch offices, end of book)

Harrington-Wiard Co., Batavia, N. Y.

Hussey Drop Forge & Mfg. Co., Axtell opp. Osage, Cleveland, O.

Lipman Mfg. Co., Beloit, Wis.

Imperial Brass Mfg. Co., Chicago, Ill.

Lobe Pump & Mach. Co., 140 Terrace, Buffalo, N. Y.

Locke Regulator Co., Salem, Mass.

Loomis Autocar Co., Westfield, Mass.

McCord & Co., ("McKenna") Old Colony Bldg., Chicago, Ill.

Milwaukee Auto Engine & Supply Co., 706 Winnebago, Milwaukee, Wis.

Milwaukee Motor Co., 615 Clybourn, Milwaukee, Wis.

Never-Miss Spark Plug Co., Lansing, Mich.

N. Y. Gear Works ("Ball"), 56 Greenpoint av., Brooklyn, N. Y.

Oberdorfer Bros. Co., Syracuse, N. Y.

Ross & Kramer, 5607 Halsted, Chicago, Ill.

Seitz, F. A. Co., Newark, N. J.

Sullivan, John W., N. Y. City.

Westerfield Motor Co., Anderson, Ind.

Wilson Automobile Mfg. Co., Wilson, N. Y.

Pumps (Cistern)

Aermotor Co., Campbell av., nr. 12th, Chicago, Ill.

Althouse-Wheeler Co. (Close Top, Pitcher Spout), Waupun, Wis.

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)

Athol Pump Co., Athol, Mass.

Barnes Mfg. Co., Mansfield, O.

Bellevue Pump Co., Bellevue, Ia.

Cedar Rapids Pump Co., Cedar Rapids, Ia.

Deming Co., Salem, O.

Douglas, W. & B., 83 John N. Y.; Middletown, Conn.

Electric Novelty Co., 43 Monroe, Memphis, Tenn.

FAIRBANKS, MORSE & CO., Franklin & Monroe, Chicago, Ill. (See adv. index & branch offices, end of book)

Flint & Walling Mfg. Co., Kendallville, Ind.

GOULDS MFG. CO., Seneca Falls, N. Y. (See adv. index & branch offices, end of book)

Hayes Pump & Planter Co., Galva, Ill.

Hess, Snyder Co., Massillon, O.

Humphries Mfg. Co., Mansfield, O.

I. X. L. & Goshen Pump Co. (and Well), Goshen, Ind.

Lawler Water Feed & Damper Regulator Co., 158 Wooster, New York

McGowan, John H. Co., 58 Central av., Cincinnati, O.

Myers, F. B. & Bro., Ashland, O.

RUMSEY & CO. (Ltd.), Seneca Falls, N. Y. (See adv. index & branch offices, end of book)

Union Mfg. Co., New Britain, Conn., & 103 Chambers, N. Y.

U. S. Wind Engine & Pump Co., Batavia, Ill.

Wilder, Sidney & Co., Holliston, Mass.

Pumps (Condenser)

(See Condensers, Steam.)

Pumps (Contractors', for Sewers & Foundations)

Boggs & Clarke, Syracuse, N. Y.

Cameron, A. S., Steam Pump Works, ft. E. 23d New York

Craft, Jesse, 260 Front, New York.

Deming Co., Salem, O.

Douglas, W. & B., 83 John, New York

Edson Mfg. Co., 257 Atlantic av., Boston, Mass.

Erie Pump & Engine Co., Erie, Pa.

GOULDS MFG. CO., Seneca Falls, N. Y. (See adv. index & branch offices, end of book)

Kingsford Foundry & Machine Works, Oswego, N. Y.

Lawrence Machine Co., Lawrence, Mass.

MacLeod, Walter & Co., 213 E Pearl, Cincinnati, O.

MORRIS MACHINE WORKS, Baldwinsville, N. Y. (See adv. on preceding page)

Pulsometer Steam Pump Co., Whitehall bldg., New York

RUMSEY & CO. (Ltd.), Seneca Falls, N. Y. (See adv. index & branch offices, end of book)

Union Elevator & Machine Co., 144 Ontario, Chicago, Ill.

Union Hardware Co. (by Hand-power), Torrington, Conn.

Van Wie Pump Co., Syracuse, N. Y.

Pumps (Copper)

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)

Athol Pump Co., Athol, Mass.

Bishop's, Wm. Sons, 205 South, New York.

Foskett & Bishop Co., New Haven, Conn.

Sands, Alfred B. & Son, 134 Beekman, N. Y.

Union Mfg. Co., New Britain, Conn., & 103 Chambers, N. Y.

Wilder, Sidney & Co., Holliston, Mass.

WILSON, F. CORTEZ & CO., 239 Lake Chicago, Ill. (See adv. index, end of book)

Pumps (Cornish)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

GOULDS MFG. CO., Seneca Falls, N. Y. (See adv. index & branch offices, end of book)

Griffith & Wedge Co., Zanesville, O.

Hendy, Joshua Machine Works, 38 Fremont, San Francisco, Cal.

Morris County Machine & Iron Co., Dover, N. J.

Portage Lake Foundry & Machinery Co., Hancock, Mich.

Union Iron Works, 222 Market, San Francisco, Cal.]

Pumps (Creamery)

American Steam Pump Co., Battle Creek, Mich.

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)

GOULDS MFG. CO., Seneca Falls, N. Y. (See adv. index & branch offices, end of book)

Humphries Mfg. Co. (Porcelain Enameled), Mansfield, O.

Prescott, Fred M., Steam Pump Co., West Allis, Wis.

Union Steam Pump Co., Battle Creek, Mich.

Van Wie Pump Co., 715 W Fayette, Syracuse, N. Y.

Weir & Craig Mfg. Co., 2439 Wallace, Chicago

Pumps (Deck)

(See Pumps, Ship & Deck.)

*Pumps (Deep Artesian Well, Steam)

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)

Pumps (Deep Well)

American Steam Pump Co., Battle Creek, Mich.

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)

Boyts, Porter & Co. (Vertical), Connellsville, Pa.

Cameron, A. S. Steam Pump Works, ft E 23d, N. Y.

Chase Foundry & Mfg. Co., Columbus, O.

Clot & Christ Machine Co., 137 Beale, San Francisco, Cal.

Columbus Steam Pump Works, Columbus, O.

Cook Well Co., 15 S 4th, St. Louis, Mo.

CORCORAN, A. J. (Inc.), 9 John, New York. Works: Jersey City, N. J. (See adv. index, end of book)

Darling Pump & Mfg. Co. (Ltd.), Williamsport, Pa.

Deming Co. (Hand & Power), Salem, O.

Douglas, W. & B., Middletown, Conn., & 83 John, New York

Downie Pump Co., Downieville, Pa.

Epping-Carpenter Co., Pittsburg, Pa.

Evans, C. H. & Co., San Francisco, Cal.

FAIRBANKS, MORSE & CO., Franklin & Monroe, Chicago, Ill. (See adv. index & branch offices, end of book)

Foster Pump Works, 224 Plymouth, Brooklyn, N. Y.

Garratt, W. T. & Co., 142 Fremont, San Francisco, Cal.

GOULDS MFG. CO., Seneca Falls, N. Y. (See adv. index & branch offices, end of book)

Hall Steam Pump Co., Allegheny, Pa.

Hartig Standard Gas Engine Co., Newark, N. J.

Helster Mfg. Co. (High Duty), St. Marys, O.

Hess-Snyder Co., Massillon, O.

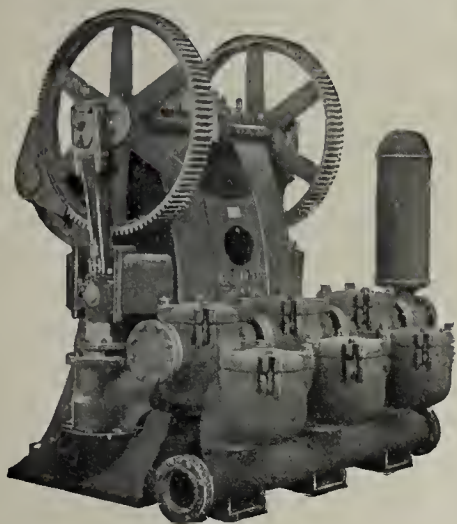
Hill Machine Co., Anderson, Ind.

Humphries Mfg. Co., Mansfield, O.

Jarecki Mfg. Co. (Brass), Erie, Pa., & Pittsburg, Pa.

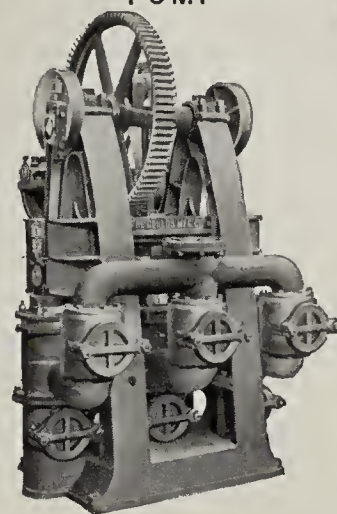
GOULDS

SINGLE ACTING TRIPLEX
PLUNGER PUMP



GOULDS

SINGLE ACTING
TRIPLEX STUFF
PUMP



THE GOULDS CATALOG
OF POWER PUMPS FOR EVERY SERVICE
IF YOU HAVE NOT RECEIVED ONE WRITE US

GOULDS EFFICIENT TRIPLEX POWER PUMPS

ARE UNEQUALLED FOR STRENGTH AND DURABILITY

They are liberally designed and proportioned. Fulfilling all the requirements for the best type of pumps for

GENERAL WATER SUPPLY, BOILER FEEDING, HYDRAULIC ELEVATORS,
MINE PUMPING, PULP GRINDERS, BLEACHERIES, TANNERIES, REFIN-
ERIES, FIRE SERVICE, DEEP WELLS, SPRINKLER SYSTEMS, ETC., ETC.

When Operated by Gas or Gasoline Engine or Electric Motor, they have proved to be most Convenient and Economical

We also Manufacture a complete line of Hand Pumps and Hydraulic Machinery for every service—
including Cistern Pumps, Force Pumps, Windmill Pumps, Spray Pumps, Hand Fire Engines, Marine Pumps,
Pump Supplies, Well Tools, Etc. Write for Catalog.

THE GOULDS MFG. CO.

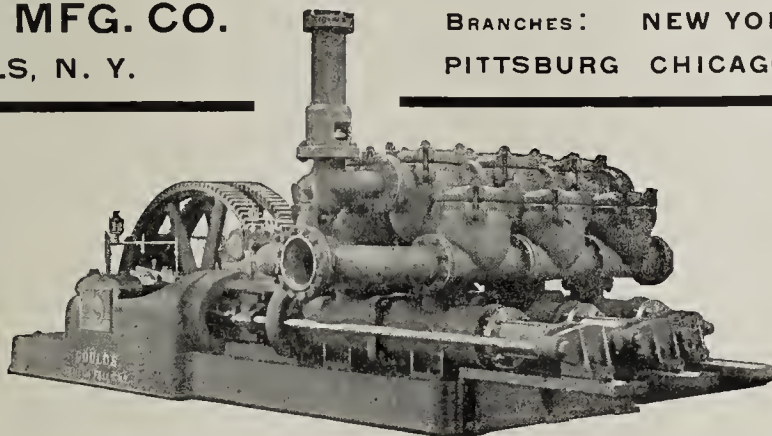
SENECA FALLS, N. Y.

BRANCHES: NEW YORK BOSTON
PITTSBURG CHICAGO ST. LOUIS

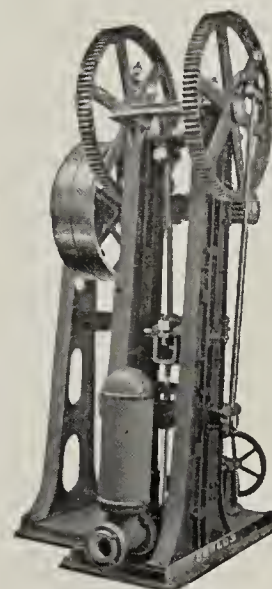
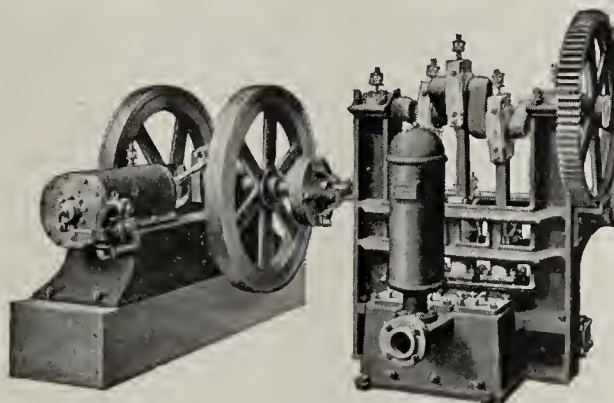


GOULDS

DIFFERENTIAL POWER
WORKING HEAD

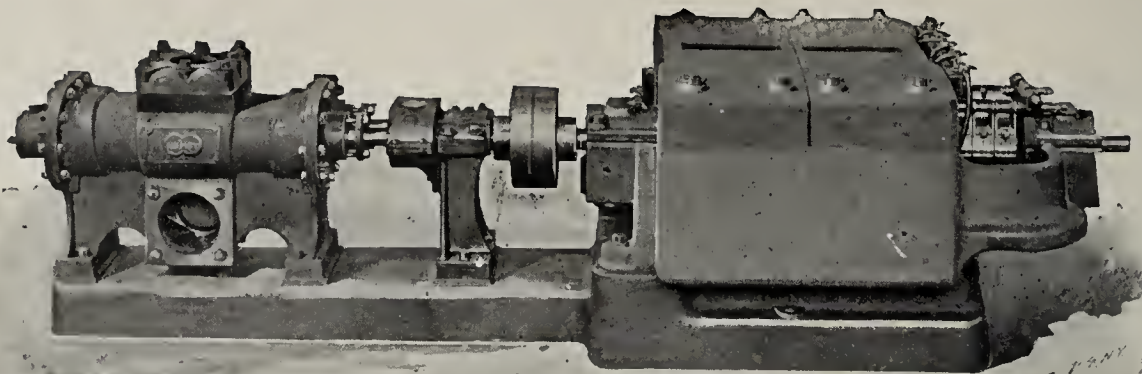


GOULDS TRIPLEX MINE PUMP



GOULDS

DOUBLE-ACTING POWER
WORKING HEAD



QUIMBY'S QUIET ELECTRIC PUMPS for ELEVATORS and HOUSE TANK SUPPLY

Write for Catalogues and References

WILLIAM E. QUIMBY, Inc.

PHILA.: STOKES & PARRISH ELEVATOR CO.
1228 Race Street

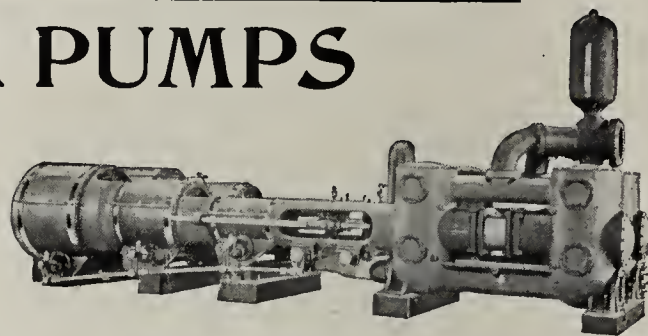
44-60 East 23d Street, NEW YORK

HIGH GRADE STEAM PUMPS

Of Simple Design and Best Material

DESIGNED FOR ANY SERVICE

Send for Catalogue No. 445 S P.



FAIRBANKS, MORSE & CO.

CHICAGO

No. 12 Dey St., NEW YORK

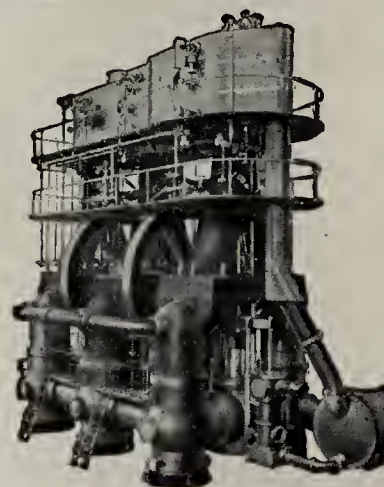
LONDON

ALLIS-CHALMERS CO.

PUMPING MACHINERY FOR EVERY SERVICE

High Duty Vertical Compound and Triple Expansion Pumping Engines.
High Duty Horizontal Pumping Engines for Water Works and Mills.
Centrifugal Pumps, Single and Multi-Stage.
Hydraulic Transmission Pumping Engines.
Screw Pumps, Elevator Pumps, Geared Pumps, Mine Pumps, Feed Pumps.
Electrically Operated Pumps.

OUR PUMPS HOLD THE WORLD'S RECORDS



Luitwieler Pumping Engine Co., Los Angeles, Cal.
 McGowan, John H. Co., 58 Central av, Cincinnati, O.
 Manistec Iron Works Co., Manistee, Mich.
 Mast, Foos & Co., Springfield, O.
 Myers, F. E. & Bro., Ashland, O.
 National Foundry & Machine Co., Louisville, Ky.
 National Steam Pump Co., Upper Sandusky, O.
OIL WELL SUPPLY CO., 215 Water,
 Pittsburg, Pa. (See adv. index, end of book)
PITTSBURG VALVE, FOUNDRY & CON-
 struction Co., 26th & A. V. Ry., Pittsburg,
 Pa. (See adv. index, end of book)
 Piatt Iron Works Co. (Power), Dayton, O., &
 100 B'way, New York
 Reliance Machine & Tool Works, 3333 Frank-
 lin av, St. Louis, Mo.
RUMSEY & CO. (Ltd.), Seneca Falls,
 N. Y. (See adv. index & branch offices,
 end of book)
 Van Wie Pump Co., Syracuse, N. Y.
 Warren Steam Pump Co., Warren, Mass.
 Weinman Machine Works (Electric & Belt
 Driven), Columbus, O.
 Wilder, Sidney & Co., Holliston, Mass.

Pumps (Diaphragm)

AMERICAN WELL WORKS, Aurora,
 Ill. (See adv. index & branch offices, end of
 Barnes Mfg. Co., Mansfield, O. book)
 Boston & Lockport Block Co., 142 Commercial,
 Boston, Mass.
 Donohue, Jno. T. & Co. (Trench), Baltimore,
 Md.
 Edson Mfg. Co. (Force Lift), 257 Atlantic av,
 Boston, Mass.
GOULDS MFG. CO., Seneca Falls, N. Y.
 (See adv. index & branch offices, end of book)
 Humphries Mfg. Co., Mansfield, O.
 Lawler Regulator Co., 473 W B'way, New York
 Platt Iron Works Co., Dayton, O., & 100
 B'way, New York
RUMSEY & CO. (Ltd.), Seneca Falls,
 N. Y. (See adv. index & branch stores,
 end of book)
 Union Elevator & Machine Co., 144 Ontario,
 Chicago, Ill.
 Union Hardware Co., Torrington, Conn.

*Pumps (Displacement)

INGERSOLL-RAND CO., 11 B'way,
 New York. (See adv. index & branch of-
 fices, end of book)

Pumps (Double Acting, Self-Measuring)

Boyer-Radford & Gordon Tank & Pump Co.,
 Dayton, O.

Pumps (Dredging)

(See Pumps, Sand & Dredging.)

Pumps (Electric)

Allentown Rolling Mills ("Aldrich"), Allen-
 town, Pa.
AMERICAN WELL WORKS, Aurora,
 Ill. (See adv. index & branch offices, end of
 book)
 Barr Pump Co., Lehigh av, cor. N 18th, Phila.,
 Pa.
 Bell Electric Motor Co., 140 Prince, New York
 Boyts, Porter & Co., Connellsville, Pa.
 Buffalo Steam Pump Co., Buffalo, N. Y.
 Burdett-Rountree Mfg. Co. (Air), 85 W Jackson
 boul, Chicago, Ill., & 120 Liberty, N. Y.
 Cameron, A. S., Steam Pump Works, ft. E.
 23d, N. Y.
 Davidson, M. T., 141 B'way, N. Y.; 13 Keap,
 Brooklyn, N. Y.
 Dean Bros. Steam Pump Works, Indianapolis,
 Ind.
 Deming Co., Salem, O.
 Douglas, W. & B., Middletown, Conn.; 83 John,
 Dow, Geo. E. Pumping Engine Co., 179 1st, San
 Francisco, Cal.
 Economic Power & Pump Co., 1907 Park av,
 New York
 Emerson Electric Mfg. Co., 2030 Washington
 av, St. Louis, Mo., & 136 Liberty, N. Y.
 City
 Erwin & Co. (Automatic), 56 Dearborn, Chi-
 cago, Ill.
FAIRBANKS, MORSE & CO., Frank-
 lin & Monroe, Chicago, Ill. (See adv. in-
 dex & branch offices, end of book)
 Garratt, W. T. & Co., 138 Fremont, San Fran-
 cisco, Cal.

GENERAL ELECTRIC CO., Schenec-
 tady, N. Y., & 44 Broad, New York. (See
 adv. index & branch offices, end of book)
 Goodman Mfg. Co., 39th & Stewart av, Chicago,
 Ill.

GOULDS MFG. CO., Seneca Falls, N. Y.
 (See adv. index & branch offices, end of book)
 International Steam Pump Co., 114 Liberty,
 New York

Jeansville Iron Works Co., Hazelton, Pa.

JEFFREY MFG. CO., Columbus, O.;
 (See adv. index & branch offices, end of book)
 Lawrence Machlue Co., Lawrence, Mass., & 39
 Cortlandt, N. Y.

Luitwieler Pumping Engine Co. ("Non-Pulsat-
 ing Balanced"), Los Angeles, Cal.
 McGowan, John H. Co., 56 Central av, Cincin-
 nati, O.

MORRIS MACHINE WORKS (Cen-
 trifugal, etc.), Baldwinville, N. Y. (See
 adv. index, end of book)

National Steam Pump Co., Upper Sandusky, O.
 New York Air Brake Co., 66 B'way, New York

OTIS ELEVATOR CO., 17 Battery Pl.
 New York. (See adv. index & branch offices,
 end of book)

PHOENIX ELECTRIC COMPANY,
 Mansfield, O. (See adv. index, end of book)
 Platt Iron Works Co., Dayton, O., & 100
 Broadway, New York

Prescott, Fred M., Steam Pump Co., West
 Allis, Wis.

QUIMBY, WM. E. Inc. (Direct Con-
 nected), 44-60 E 23rd, New York. (See
 adv. index, end of book)

Quincy Engine Works, Quincy, Ill.
 Roots, P. H. & F. M. Co., Connersville, Ind.

RUMSEY & CO. (Ltd.), Seneca Falls,
 N. Y. (See adv. index & branch offices,
 end of book)

Scranton Steam Pump Co., Scranton, Pa.
 Taber Pump Co. (Portable), 90 Ellicott, Buf-
 falo, N. Y.

Thomas & Smith, 17 S Carpenter, Chicago, Ill.,
 & 288 Hndson, New York

Van Wie Pump Co., Syracuse, N. Y.
 Varwig Mfg. Co., 123 Liberty, N. Y.

Weinman Machine Works, Columbus, Ohio.

Pumps (Elevator)

ALLIS-CHALMERS CO., Milwaukee, Wis.
 (See adv. index & branch offices, end of book)

Blakeslee Mfg. Co., Du Quoin, Ill.

Buffalo Steam Pump Co., Buffalo, N. Y.
 Burton & Johnson, 107 W Center, Cleveland, O.

Canton-Hughes Pump Co., Canton & Cleve-
 land, O.

Davidson, M. T., 141 B'way, N. Y.; 43 Keap,
 Brooklyn, N. Y.

Dean Bros.' Steam Pump Works, Indianapolis,
 Ind.

Douglas, W. & B., Middletown, Conn.; 83 John,
 New York

Epping-Carpenter Co., Pittsburg, Pa.

FAIRBANKS, MORSE & CO., Frank-
 lin & Monroe, Chicago, Ill. (See adv. in-
 dex & branch offices, end of book)

GARDNER GOVERNOR CO., Quincy,
 Ill. (See adv. index, end of book)

Garratt, W. T. & Co., San Francisco, Cal.
 Goodman Mfg. Co., 48th pl & S Halsted, Chi-
 cago, Ill.

GOULDS MFG. CO., Seneca Falls, N. Y.
 (See adv. index & branch offices, end of book)

Hall Steam Pump Co., Allegheny, Pa.

Heisler Mfg. Co., St. Marys, O.

International Steam Pump Co., 114 Liberty,
 N. Y.

Luitwieler Pumping Engine Co. ("Non-Pulsat-
 ing Balanced"), 405 N Main, Los Angeles,
 Cal.

McGowan, John H. Co., 58 Central av, Cincin-
 nati, O.

National Foundry & Machine Co., Louisville, Ky.

Platt Iron Works Co., Dayton, O., & 100
 Broadway, New York

Prescott, Fred M., Steam Pump Co., West
 Allis, Wis.

QUIMBY, WM. E. (Inc.), 44-60 E.
 23rd, N. Y. (See adv. index, end of book)

Roots, P. H. & F. M. Co., Connersville, Ind.

RUMSEY & CO. (Ltd.), Seneca Falls,
 N. Y. (See adv. index & branch offices,
 end of book)

Union Steam Pump Co., Battle Creek, Mich.

Pumps (Fan & Stuff)

Sandy Hill Iron & Brass Works, Sandy Hill,
 N. Y.

Pumps (Filter Press)

Buffalo Steam Pump Co., Buffalo, N. Y.
FAIRBANKS, MORSE & CO., Frank-
 lin & Monroe, Chicago, Ill. (See adv. in-
 dex & branch offices, end of book)
GOULDS MFG. CO., Seneca Falls, N. Y.
 (See adv. index & branch offices, end of book)
GUILD & GARRISON, ft of S 10th,
 Brooklyn, N. Y.
 Shriver, T. & Co., Harrison, N. J.

Pumps (Fire)

(See Pumps, Steam.)

Pumps (Force & Lift)

Althouse-Wheeler Co. (Hand Force), Waupun,
 Wis.
AMERICAN WELL WORKS, Aurora,
 Ill. (See adv. index & branch offices, end of
 Athol Pump Co., Athol, Mass. book)
 Baker Mfg. Co., Evansville, Wis.
 Barnes Mfg. Co., Mansfield, O.
BERNZ, OTTO, S. 13th & S. Orange av.,
 Newark, N. J. (See adv. index, end of
 book)
 Blymyer Iron Works Co. ("Crown," "Star"
 Hand & Power Double Acting), Spring
 Grove av & Terrace pl, Cincinnati, O.
 Columbiana Pump Co., Columbiana, O.
 Comstock & Coonse Co., Indianapolis, Ind.
 Corcoran, Andrew J., 11 John, New York
 Crook-Horner Co., 301 N Howard, Baltimore,
 Md.
 Deming Co., Salem, O.
 Douglas, W. & B., Middletown, Conn.; 85 John,
 New York

Du Bois Iron Works, Du Bois, Pa.
 Duplex Mfg. Co., Superior, Wis.
 Eccles, Jas., 2424 Ambler, Phila., Pa.

Edison Mfg. Co. (Odorless), 132 Commercial,
 Boston, Mass.

Edwards, Jos. & Co., 416 Water, New York

FAIRBANKS, MORSE & CO., Frank-
 lin & Monroe, Chicago, Ill. (See adv. in-
 dex & branch offices, end of book)

Field Force Pump Co., Elmira, N. Y.

Flint & Walling Mfg. Co., Kendallville, Ind.

Foskett & Bishop Co., River cor Blatchley
 avs, New Haven, Conn.

Geiser Mfg. Co., Waynesboro, Pa.

GOULDS MFG. CO., Seneca Falls,
 N. Y. (See adv. index & branch offices, end
 of book)

Hanson & Rhodes, 157 W 29th, New York

Harrisburg Mfg. & Boiler Co., Harrisburg, Pa.,
 & 95 Liberty, New York

Haydenville Co., Haydenville, Mass.

Hayes Pump & Planter Co. (House Windmill,
 etc.), Galva, Ill.

Hess, Snyder Co. (Novelty), Massillon, O.

Humphrey Machine Co. (Force), Keene, N. H.

Humphries Mfg. Co. (Force), Mansfield, O.

Kirkup, Robt. & Co., 620 Lodge, Cinn., O.

Klotz Machine Co. ("Waldkircher's" Oscillat-
 ing Force Pump), Sandusky, O.

McDonald, A. Y. & Morrison Mfg. Co., Dubuque,
 Ia.

McGowan, Jno. H. Co., 56 Central av, Cincin-
 nati, O.

McNab & Harlin Mfg. Co., 56 John, N. Y.

Marcy, R. G. Mfg. Co., Bluffton, Ind.

Mast, Foos & Co. ("Buckeye"), Springfield, O.

Mietz & Weiss, 134 Mott, N. Y.

Millar, Chas. & Son Co. ("Red Jacket"),
 Utica, N. Y.

Moline Pump Co., Moline, Ill.

Murdoch, J. G. & Co., 426 Plum, Cincinnati, O.

Nason Mfg. Co., 71 Beckman, N. Y.

Porter, J. E. Co., Ottawa, Ill.

Powell, Wm. Co., 2525 Spring Grove av, Cin-
 cinnati, O.

Red Jacket Mfg. Co., Davenport, Ia.

Reynolds, M. Plumbers' Supply Co., 25 Centre,
 N. Y.

RUMSEY & CO., Ltd. (For all Pur-
 poses), Seneca Falls, N. Y. (See adv. in-
 dex & branch offices, end of book)

Thomas Mfg. Co., Springfield, O.

Trahern Pump Co., Rockford, Ill.

Union Mfg. Co., New Britain, Conn., & 103
 Chambers, N. Y.

Wilder, Sidney & Co., Holliston, Mass.

Pumps (Gas Compressing)

AMERICAN WELL WORKS, Aurora,
 Ill. (See adv. index & branch offices, end of
 book)

GOULDS MFG. CO., Seneca Falls, N. Y.
 (See adv. index & branch offices, end of book)

Johnson, Israel H., Jr., Co., 1422 Callowhill,
 Phila., Pa.

National Foundry & Machine Co., Louisville, Ky.

Pumps (Gas Engine Starting)

Caldwell, E. R. & Co., Bradford, Pa.
GOULDS MFG. CO., Seneca Falls, N. Y.
 (See adv. index & branch offices, end of book)
 Van Wie Pump Co., 715 W Fayette, Syracuse, N. Y.

*Pumps (Gas Fitters' Proving)

GOULDS MFG. CO., Seneca Falls, N. Y.
 (See adv. index & branch offices, end of book)
SCHAEFFER & BUDENBERG MFG. CO., Foxboro, Mass. (See adv. index & branch offices, end of book)
STANDARD GAUGE MFG. CO., Syracuse, N. Y. (See adv. index & branch offices, end of book)

*Pumps (Gas Main, Force)

BERNZ, OTTO, S. 13th & S. Orange av., Newark, N. J. (See adv. index, end of book)

Pumps (Gasoline)

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)
 Bowser, S. F. & Co. (Inc.), Ft. Wayne, Ind.
GOULDS MFG. CO., Seneca Falls, N. Y. (See adv. index & branch offices, end of book)

Pumps (Gauge Testing)

(See Gauge Testing Apparatus.)

*Pumps (Geared)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

Pumps (Geared, Oil or Water)

(For Milling, Gear & Chucking Machines, etc.)
 Brown & Sharpe Mfg. Co. (for Oil Supply, to Cutting Tools on Lathes, Screw Machines, etc.), Providence, R. I.
 Platt Iron Works Co., Dayton, Ohio, & 100 Broadway, New York

Pumps (Ham Preserving)

Silver Mfg. Co., Salem, O.
GOULDS MFG. CO., Seneca Falls, N. Y. (See adv. index & branch offices, end of book)

Pumps (Hot Air)

(See Engines, Hot Air Pumping.)

Pumps (Hydraulic)

AITON MACHINE CO. (High Pressure), 126 Liberty, New York, & Harrison, N. J. (See adv. index, end of book)
 American Steam Pump Co., Battle Creek, Mich.
AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)

Barr Pump Co., 18th & Lehigh av, Phila., Pa.
 Bethlehem Steel Co., South Bethlehem, Pa.
 Bishop & Babcock Co. (Vacuum), c Hamilton & Kirkland, Cleveland, O.

Blakeslee Mfg. Co., Du Quoin, Ill.
 Boyts, Porter & Co., Conneville, Pa.
 Buckeye Iron & Brass Works, Dayton, O.
 Buffalo Steam Pump Co., Buffalo, N. Y.
 Burroughs, Chas. Co., 143 Commerce, Newark, N. J.

Bushnell, G. H. Press Co., Thompsonville, Conn.
 Cameron, A. S. Steam Pump Works, ft E 23d, N. Y.
 Canton-Hughes Pump Co., Canton & Cleveland, O.

Columbus Steam Pump Works, Columbus, O.
 Davidson, M. T., 141 B'way, N. Y., & 43 Keap, Brooklyn, N. Y.

Dean Bros. Steam Pump Works, Indianapolis, Ind.
 Deming Co. (Pressure), Salem, O.
 Douglass, W. & B., Middletown, Conn.; 83 John, New York

ELMES, CHAS. F. ENGINEERING Works, c N Sangamon & Fulton, Chicago, Ill. (See adv. index, end of book)
 Epling-Carpenter Co., 41st & A. V. Ry., Pittsburg, Pa.

FAIRBANKS, MORSE & CO., Franklin & Monroe, Chicago, Ill. (See adv. index & branch offices, end of book)
 Farrel Foundry & Machine Co., Ansonia, Conn.

French Oil Mill Machinery Co., Piqua, O.
GOULDS MFG. CO., Seneca Falls, N. Y. (See adv. index & branch offices, end of book)
 Hall Steam Pump Co., Allegheny, Pa.
 Holyoke Machine Co. ("Hercules"), Holyoke, Mass.

Hydraulic Press Mfg. Co. (Hand & Power), Mt. Gilead, O.
 International Steam Pump Co., 114 Liberty, N. Y.

Lake City Engineering Co., Erie, Pa.
 McGowan, John H., Co., Cincinnati.

MARINE ENGINE & MACHINE CO. ("Groshon" High Duty for Municipal & Public Service), Main Office, 126 Liberty, New York. Works, Harrison, N. J. (See adv. index, end of book)

Maslin, John & Son, 167 1st, Jersey City, N. J.
 Morgan Engineering Co., Alliance, O.
MORRIS MACHINE WORKS, Baldwinsville, N. Y. (See adv. index, end of book)

National Foundry & Machine Co., Louisville, Ky.
 National Steam Pump Co., Upper Sandusky, O.

Olsen, Tinius & Co., 500 N 12th, Phila., Pa.
 Perrin, Wm. R. & Co., 1500 46th, Chicago, Ill.
PITTSBURG VALVE, FOUNDRY & CONSTRUCTION CO., 26th & A. V. Ry., Pittsburg, Pa. (See adv. index, end of book)

Platt Iron Works Co., Dayton, O., & 100 B'way, New York

Riehle Bros. Testing Machine Co., 1424 N 9th, Phila., Pa.
 Robertson, Jno. & Co., 129 Water, Brooklyn, N. Y.

RUMSEY & CO. (Ltd.), Seneca Falls, N. Y. (See adv. index, & branch offices, end of book)

Southwark Foundry & Machine Co., Wash'n av & 5th, Phila., Pa.
 Townsend Furnace & Machine Shop Co., Albany, N. Y.

Tranter, Davison Mfg. Co. (McFuley), 105 Water, Pittsburg, Pa.
 Union Steam Pump Co., Battle Creek, Mich.

Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.
WATSON-STILLMAN CO., 26 Cortlandt, New York. (See adv. index, end of book)

Weir & Craig Mfg. Co., 2439 Wallace, Chicago
 Wells, F. C. (Est. of), 116 S Clinton, Chicago, Ill.

Wheeler, C. H. Mfg. Co., Lehigh & N 16th, Phila., Pa., & 26 Cortlandt, New York
 Wilson-Snyder Mfg. Co., Ross & Water, Pittsburg, Pa.

Wood, R. D. & Co., 400 Chestnut, Phila., Pa.

Pumps (Hydraulic Dredging)

Boggs & Clarke, Syracuse, N. Y.
 Erie Pump & Engine Co. (And Engine), Erie, Pa.

GOULDS MFG. CO., Seneca Falls, N. Y. (See adv. index & branch offices, end of book)
 Kingsford Foundry & Machine Works (Belt or Engine Driven, etc.), Oswego, N. Y.

Lake City Engineering Co., Erie, Pa.
 Morris Machine Works, Baldwinsville, N. Y.
 Van Wie Pump Co., 715 W Fayette, Syracuse, N. Y.

Pumps (Hydraulic, Elevator Service)

GOULDS MFG. CO., Seneca Falls, N. Y. (See adv. index & branch offices, end of book)
MARINE ENGINE & MACHINE CO. (High Duty), Main Office, 126 Liberty, New York; Works, Harrison, N. J. (See adv. index, end of book)

Prescott, Fred M., Steam Pump Co., West Allis, Wis.

Pumps (Hydraulic Proving)

GOULDS MFG. CO., Seneca Falls, N. Y. (See adv. index & branch offices, end of book)
 Johnson, Israel H., Jr., Co., 1422 Callowhill, Phila., Pa.

Union Steam Pump Co., Battle Creek, Mich.

*Pumps (Intensifier)

MORGAN ENGINEERING CO. (For Forging & Bending), Alliance, O. (See adv. index, end of book)

*Pumps (Hydraulic Transmission)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

Pumps (Irrigating)

Aermotor Co., Campbell av., nr. 12th, Chicago, Ill.

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)
AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)

Appleton Mfg. Co., Batavia, Ill.
 Barnes Mfg. Co., Mansfield, O.

Blakeslee Mfg. Co., Du Quoin, Ill.
 Buffalo Steam Pump Co., Buffalo, N. Y.
 Cameron, A. S. Steam Pump Works, ft E 23d, N. Y.

Challenge Wind Mill & Feed Mill Co., Batavia, Ill.

Charter Gas Engine Co., Sterling, Ill.
 Deming Co., Salem, O.
 Dow, Geo. E. Pumping Engine Co., 179 1st, San Francisco, Cal.

Edwards, Jos. & Co., 414 Water, New York
 Erie Pump & Engine Co. (Mounted Portable), Erie, Pa.

FAIRBANKS, MORSE & CO., Franklin & Monroe, Chicago, Ill. (See adv. index & branch offices, end of book)
GOULDS MFG. CO., Seneca Falls, N. Y. (See adv. index & branch offices, end of book)

Gunther Foundry, Machine & Supply Co., San Antonio, Tex.
 Haslehurst, W. W., 2122 Folsom, San Francisco, Cal.

Humphries Mfg. Co., Mansfield, O.
 Kingsford Foundry & Machine Works, Oswego, N. Y.

Krogh Mfg. Co., San Francisco, Cal.
 McGowan, Jno. H. Co., 56 Central av, Cincinnati, O.
 Mast, Foos & Co., Springfield, O.

MORRIS MACHINE WORKS, Baldwinsville, N. Y. (See adv. index, end of book)

Myers, F. E. & Bro., Ashland, O.
 National Foundry & Machine Co., Louisville, Ky.
 Red Jacket Mfg. Co., Davenport, Ia.

Roots, P. H. & F. M. Co. (Rotary Pressure), Connersville, Ind.
RUMSEY & CO. (Ltd.), Seneca Falls, N. Y. (See adv. index & branch offices, end of book)

Stover Mfg. Co., Freeport, Ill.
 United Steam Pump Co., Battle Creek, Mich.
 United States Wind Engine & Pump Co., Batavia, Ill.

Van Wie Pump Co., 715 W Fayette, Syracuse, N. Y.
 Ward Pump Co., Rockford, Ill.
 Weber Gas Engine Co., Kansas City, Mo.

Pumps (Juice)

Beach-Russ Co., Long Island City, N. Y.
 Blymyer Iron Works Co. (Hand or Power), Cincinnati, O.

Hill Machine Co., Anderson, Ind.
 Squier, Geo. L. Mfg. Co. (Power & Hand), Buffalo, N. Y.

Pumps (Laboratory Vacuum)

Schutte & Koerting Co., 1251 N 12th, Phila., Pa.

Pumps (Lever)

GOULDS MFG. CO., Seneca Falls, N. Y. (See adv. index & branch offices, end of book)
 Leather & Brass Mfg. Co. (High Pressure for Shop or Store), Auburn, N. Y.

Pumps (Lubricator)

(See Lubricators, Pump.)

Pumps (Manhole & Pile Sinking)

Edson Mfg. Co., 257 Atlantic av, Boston, Mass.
GOULDS MFG. CO., Seneca Falls, N. Y. (See adv. index & branch offices, end of book)

Pumps (Marine)

(See Pumps, Steam.)

Pumps (Measuring)

Enterprise Mfg. Co. (Self Pruning, Molasses, etc.), 3d & Dauphin, Phila., Pa.

WILSON, F. CORTEZ & CO., 239 Lake, Chicago, Ill. (See adv. index, end of book)

Pumps (Mine)

ALLIS-CHALMERS CO. (Capacity 3,000 Gallons Per Minute), Milwaukee, Wis. (See adv. index & branch offices, end of book)

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)

Aurora Foundry & Machine Works (Cross Head Light), Aurora, Mo.

Blakeslee Mfg. Co., Du Quoin, Ill., & Birmingham, Ala.

Boyle, Porter & Co., Connellsville, Pa.

Buffalo Steam Pump Co., Buffalo, N. Y.

Burton & Johnson, 107 W Centre, Cleveland

Cameron, A. S., Steam Pump Works, ft. E 23d, New York

Canton-Hughes Pump Co., Canton & Cleveland, O.

Columbus Steam Pump Works, Columbus, O.

Connellsville Machine & Car Co., Connellsville, Pa.

Cook Well Co., 15 S 4th, St. Louis, Mo.

Crawford & McCrimmon Co. (Acid Proof), Brazil, Ind.

Davidson, M. T., 141 B'way, N. Y.; 43 Keap, Brooklyn, N. Y.

Dean Bros.' Steam Pump Works, Indianapolis, Ind.

Deming Co., Salem, O.

Douglas, W. & B., 83 John, N. Y. & Middletown, Conn.

Dow, Geo. E. Pumping Engine Co., 179 1st, San Francisco, Cal.

Economic Power & Pump Co., 1907 Park av., New York

Edson Mfg. Co. (& Prospecting), 257 Atlantic av., Boston, Mass.

Edwards, Jos. & Co., 412 Water, N. Y.

Epping-Carpenter Co., 41st & A. V. R. R., Pittsburg, Pa.

FAIRBANKS, MORSE & CO., Franklin & Monroe, Chicago, Ill. (See adv. index & branch offices, end of book.)

Franklin Iron Works, Port Carbon, Pa.

FRENIER, J. H. & SON, Rutland, Vt.

GARDNER GOVERNOR CO., Quincy, Ill. (See adv. index, end of book)

Garrett, W. T. & Co., 142 Fremont, San Francisco, Cal.

GOULDS MFG. CO., Seneca Falls, N. Y. (See adv. index & branch offices, end of book)

Goyne Steam Pump Co. (Goyne Bros., Props.), Works, Ashland, Pa.

Hall Steam Pump Co., Allegheny, Pa.

Hill Machine Co., Anderson, Ind.

Hooker Steam Pump Co., St. Louis, Mo.

INGERSOLL-RAND CO., 11 B'way, New York. (See adv. index & branch offices, end of book)

International Steam Pump Co., 114 Liberty, New York

Jeansville Iron Works Co., Hazleton, Pa.

Kingsford Foundry & Machine Works, Oswego, N. Y.

Luitwieier Pumping Engine Co. ("Non-pulsating"), Los Angeles, Cal.

McGowan, John H. Co., Cincinnati, O.

Manistee Iron Works Co., Manistee, Mich.

Maslin, John & Son, 167 1st, Jersey City, N. J.

Mine & Smelter Supply Co., Denver, Colo.

MORRIS MACHINE WORKS, Baldwinsville, N. Y. (See adv. index, end of book)

Mullen, John & Son, Shamokin, Pa.

Mount Carmel Iron Works, Mount Carmel, Pa.

National Foundry & Machine Co., Louisville, Ky.

National Steam Pump Co., Upper Sandusky, O.

Nye Steam Pump & Machinery Co., 70 W. Wash'n, Chicago, Ill.

Ottumwa Iron Wks., Ottumwa, Iowa.

PITTSBURG VALVE, FOUNDRY & CONSTRUCTION CO., 26th & A. V. Ry., Pittsburg, Pa. (See adv. index, end of book)

Platt Iron Works Co., Dayton, O., & 100 B'way, New York

Prescott, Fred M., Steam Pump Co., West Allis, Wis.

Pulsometer Steam Pump Co., Whitehall bldg., New York

Roberts, Geo. J. Co., Dayton, O.

Roots, P. H. & F. M. Co., Connorsville, Ind.

RUMSEY & CO. (Ltd.), Seneca Falls, N. Y. (See adv. on following page; branch offices, end of book)

Scranton Steam Pump Co., Scranton, Pa.

Union Steam Pump Co., Battle Creek, Mich.

Wagener Steam Pump Co., Louisville, O.

Weinman Machine Works, Columbus, O.

Weir & Craig Mfg. Co., 2439 Wallace, Chicago.

Wells, F. C. (Est. of), 122 S. Clinton, Chicago, Ill.

Wilson-Snyder Mfg. Co., Ross & Water, Pittsburg, Pa.

Pumps (Oil)

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)

Axelsson Pump Co., Los Angeles, Cal.

Bowser, S. F. & Co. (Inc.), Ft. Wayne, Ind.

Cameron, A. S., Steam Pump Wks., ft. E. 23d, New York

GOULDS MFG. CO., Seneca Falls, N. Y. (See adv. index & branch offices, end of book)

Manzel Bros., 319 Babcock, Buffalo, N. Y.

QUIMBY, WM. E. (Inc.), 44-60 E 23d, New York. (See adv. index, end of book)

RUMSEY & CO. (Ltd.), Seneca Falls, N. Y. (See adv. on following page; branch offices, end of book)

WILSON, F. CORTEZ & CO. (Tin & Galvanized), 239 Lake, Chicago, Ill. (See adv. index, end of book)

*Pumps (Oil, for Machine Tools)

OWEN MACHINE TOOL CO. (With Tank), Springfield, O. (See adv. index, end of book)

Pumps (Oil Rotary)

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)

Gould & Eberhardt, Newark, N. J.

GOULDS MFG. CO., Seneca Falls, N. Y. (See adv. index & branch offices, end of book)

Nugent, Wm. W. & Co., 18 W. Randolph, Chicago, Ill.

OIL WELL SUPPLY CO., 215 Water, Pittsburg, Pa. (See adv. index, end of book)

Pumps (Paper Mill)

Buffalo Steam Pump Co., Buffalo, N. Y.

GOULDS MFG. CO., Seneca Falls, N. Y. (See adv. index & branch offices, end of book)

Kingsford Foundry & Machine Works, Oswego, N. Y.

MORRIS MACHINE WORKS, Baldwinsville, N. Y. (See adv. index, end of book)

*Pumps (Papermakers' Fan)

GOULDS MFG. CO., Seneca Falls, N. Y. (See adv. index & branch offices, end of book)

RUMSEY & CO., Ltd. (For Forcing & Raising Pulp, etc.), Seneca Falls, N. Y. (See adv. on following page; branch offices, end of book)

Pumps (Pitcher Spout)

Douglas, W. & B., Middletown, Conn., & 83 John, New York

GOULDS MFG. CO., Seneca Falls, N. Y. (See adv. index & branch offices, end of book)

Humphries Mfg. Co., Mansfield, O.

Pumps (Plumbers')

Barnes Mfg. Co., Mansfield, O.

Deming Co., Salem, O.

Douglas, W. & B., 85 John, N. Y.; Middletown, Conn.

GOULDS MFG. CO., Seneca Falls, N. Y. (See adv. index & branch offices, end of book)

Humphries Mfg. Co., Mansfield, O.

Kirkup, Robert & Co., 620 Lodge, Cincinnati, O.

Knapp Mfg. Co., 22 Frankfort, New York

Lawler Water, Feed & Damper Regulator Co., 158 Wooster, New York

Murdock, J. G. & Co., 428 Plum, Cincinnati, O.

Powell, Wm. Co., Cincinnati, O.

RUMSEY & CO. (Ltd.), Seneca Falls, N. Y. (See adv. on following page; branch offices, end of book)

Union Mfg. Co., New Britain, Conn., & 103 Chambers, New York

Wolverine Brass Works ("Plumbers' Friend"), Grand Rapids, Mich.

Pumps (Plumbers' Force)

Boekel, Wm. & Co. (Inclined Air), 518 Vine, Phila., Pa.

Elkhart Rubber Works (Rubber), Elkhart, Ind.

Giant Household Pump Co., 803 Callowhill, Phila., Pa.

GOULDS MFG. CO., Seneca Falls, N. Y. (See adv. index & branch offices, end of book)

Lawless, J., 184 3d, Jersey City, N. J.

Noppel Pump Co., Hartford, Conn.

Perkes, Chas., 625 Arch, Phila., Pa.

RUMSEY & CO. (Ltd.), Seneca Falls, N. Y. (See adv. on following page; branch offices, end of book)

*Pumps (Plunger)

GARDNER GOVERNOR CO., Quincy, Ill. (See adv. index, end of book)

Pumps (Pneumatic)

(See also Pneumatic Pumping Systems)

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)

Curtis & Co. Mfg. Co., St. Louis, Mo.

Harris Air Pump Co., Lombard bldg., Indianapolis, Ind.

INGERSOLL-RAND CO., 11 B'way, New York. (See adv. index & branch offices, end of book)

Latta-Martin Pump Co., Hickory, N. C.

Roots, P. H., & F. M. Co., Connorsville, Indiana.

United Pump & Power Co., Old Colony bldg., Chicago, Ill.

Pumps (Power)

ALLIS-CHALMERS CO. ("Duplex"), Milwaukee, Wis. (See adv. index & branch offices, end of book)

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)

Atwood & Morrell, Salem, Mass.

Bessemer Gas Engine Co., Grove City, Pa.

Buffalo Steam Pump Co., Buffalo, N. Y.

Cameron, A. S. Steam Pump Co., ft. of E. 23d, N. Y.

Cameron-Tennant Machine Wks., Richmond, Va.

Canton-Hughes Pump Co., Canton & Cleveland, O.

Columbus Steam Pump Works, Columbus, O.

Clot & Christ Machine Co., 137 Beale, San Francisco, Cal.

Davidson, W. T., 43 Keap, Brooklyn, N. Y.; 141 B'way, New York

Davis, I. B. & Son, Hartford, Conn.

Deming Co., Salem, O.

Du Bois Iron Works (High Duty Triplex), Du Bois, Pa.

Elgin Mfg. Co., Elgin, Ill.

Evans, C. H. & Co., 183 Fremont, San Francisco, Cal.

FAIRBANKS, MORSE & CO., Franklin & Monroe, Chicago, Ill. (See adv. index & branch offices, end of book)

Findlay Foundry & Machine Co., Findlay, N. Y.

French Oil Mill Machinery Co., Piqua, O.

Fulton Engine Works, Los Angeles, Cal.

GOULDS MFG. CO., Seneca Falls, N. Y. (See adv. index & branch offices, end of book)

Harris Pump & Supply Co., 320 2d av., Pittsburg, Pa.

Heisler Mfg. Co., St. Marys, Mo.

Hill Machine Co., Anderson, Ind.

International Steam Pump Co., 120 Liberty, N. Y.

Lucas, C. O. & Co., Greenville, O.

Mast, Foos & Co. ("Buckeye" Force), Springfield, O.

Myers, F. E. & Bro., Ashland, O.

National Steam Pump Co., Upper Sandusky, O.

New Era Gas Engine Co., Dayton, O.

Platt Iron Works Co., Dayton, O., & 100 B'way, New York

QUIMBY, WM. E. (Inc.), 44-60 E. 23d, New York. (See adv. index, end of book)

Quincy Engine Wks (Motor Driven), Quincy, Ill.

Roots, P. H. & F. M. Co., Connorsville, Ind., & 120 Liberty, New York

Rumsey, L. M. Mfg. Co. (Also Hand), 806 N. St. Louis, Mo.

RUMSEY & CO. (Ltd.), Seneca Falls, N. Y. (See adv. on following page; branch offices, end of book)

Scranton Steam Pump Co., Scranton, Pa.

Sneedley Steam Pump Co., Dubuque, Ia.

SPRINGFIELD ELEVATOR & PUMP CO., Springfield, Mass. (See adv. index, end of book)

Stewart Heater Co., 396 Norfolk av., Buffalo, N. Y.

Walker Mfg. Co. (Up to 1,000,000 Gallons Daily), Fenton, Mich.

Warren Steam Pump Co., Warren, Mass.

Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.

Weinman Machine Works (Geared, Electric, Belt Driven, etc.), Columbus, Ohio

Wetmore Iron Works, Lowville, N. Y.

*Pumps (Private Water Works)

KEWANEE WATER SUPPLY CO., Kewanee, Ill. (See adv. index, end of book)

PITTSBURG VALVE, FOUNDRY & CONSTRUCTION CO., 26th & A. V. Ry., Pittsburg, Pa. (See adv. index, end of book)

Pumps (Propeller)

Wood, P. K. ("Wood," Horizontal, for Tailings, Cyanide Solution, Placer Mining & Dredging), Los Angeles, Cal.

Pumps (Quarry)

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)
Cameron, A. S. Steam Pump Wks., ft. E. 23d, N. Y.

CONTRACTORS' SUPPLY & EQUIPMENT Co., Old Colony bldg., Chicago, Ill. (See adv. index & branch offices, end of book)

FAIRBANKS, MORSE & CO., Franklin & Monroe, Chicago, Ill. (See adv. index & branch offices, end of book)

GOULDS MFG. CO., Seneca Falls, N. Y. (See adv. index & branch offices, end of book)

INGERSOLL-RAND CO., 11 B'way, New York. (See adv. index & branch offices, end of book)

Pumps (Railroad Force)

GOULDS MFG. CO., Seneca Falls, N. Y. Springfield, O. (See adv. index, end of book)

Prescott, Fred M., Steam Pump Co., West Allis, Wis.

RUMSEY & CO. (Ltd.), Seneca Falls, N. Y. (See adv. below; branch offices, end of book)

Pumps (Reciprocating)

Buffalo Steam Pump Co., Buffalo, N. Y.

*Pumps (Reclamation)

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)

GOULDS MFG. CO., Seneca Falls, N. Y. (See adv. index & branch offices, end of book)

MORRIS MACHINE WORKS, Baldwinsville, N. Y. (See adv. index, end of book)

Pumps (Revolving)

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)

Roots, P. H. & F. M. Co., Connersville, Ind., & 120 Liberty, New York

Pumps (Rotary)

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)

Bagley & Sewall Co. (and Reciprocating), Watertown, N. Y.

Barnes Mfg. Co., Mansfield, O.

Beach-Russ Co., Long Island City, N. Y.

Connersville Blower Co. (Force), Connersville, Ind.

Davis-Johnson Co., 9 S Canal, Chicago, Ill.

Deming Co., Salem, O.

Douglas, W. & B., Middletown, Conn., & 83 John, New York

FAIRBANKS, MORSE & CO., Franklin & Monroe, Chicago, Ill. (See adv. index & branch offices, end of book)

Foster Pump Works (also Rotary Hand), 224 Plymouth, Brooklyn, N. Y.

GOULDS MFG. CO., Seneca Falls, N. Y. (See adv. index & branch offices, end of book)

Hartford Machine Screw Co., Hartford, Conn.

Hersey Mfg. Co. (Soap), 314 W 2d, S. B., Boston, Mass.

Holyoke Machine Co., Holyoke & Worcester, Mass.

Humphrey Machine Co., Keene, N. H.

Hunt-Rodney Machine Co. (Fire), Orange, Mass.

Lobee Pump & Machinery Co., 150 Terrace, Buffalo, N. Y.

Perrin, Wm. R. & Co., 1500 46th, Chicago, Ill.

Roots, P. H. & F. M. Co. (Positive Pressure), Connersville, Ind.

Ross, Chas. & Son Co. ("Ross" for White Lead & Putty), 148 Classon av., Brooklyn, N. Y.

RUMSEY & CO., Ltd. (Force, Fire & Oil Service), Seneca Falls, N. Y. (See adv. below; branch offices, end of book)

Southwark Foundry & Machine Co., Phila., Pa.

Taber Pump Co. (Beer Circulating & Racking, etc.), Buffalo, N. Y.

Wilson Positive Blower Co. ("Wilson"), 28 76th, Brooklyn, N. Y.

Pumps (Rotary Oil)

(See Pumps, Oil Rotary)

Pumps (Sand Feed Stone-Sawing)

Frenier, J. H. & Son, Rutland, Vt.

Pumps (Sand & Dredging)

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)

Boggs & Clarke (Hydraulic, etc.), Syracuse, New York

Buffalo Steam Pump Co., Buffalo, N. Y.

Ellicott Machine Co., Bush & Severn sts., Baltimore, Md.

Erie Pump & Engine Co., Erie, Pa.

GOULDS MFG. CO., Seneca Falls, N. Y. (See adv. index & branch offices, end of book)

Jackson, Byron Machine Works, 411 Market, San Francisco, Cal.

Lake City Engineering Co., Erie, Pa.

Lawrence Machine Co., Lawrence, Mass.

MORRIS MACHINE WORKS, Baldwinsville, N. Y. (See adv. index, end of book)

PITTSBURG VALVE, FOUNDRY & CONSTRUCTION Co., 26th & A. V. Ry., Pittsburgh, Pa. (See adv. index, end of book)

United Iron Works, 32 Fremont, San Francisco, Cal.

Urie Boiler & Machine Co., Kansas City, Mo.

Van Wie Pump Co., 715 W Fayette, Syracuse, N. Y.

*Pumps (Screw)

ALLIS-CHALMERS CO. (Daily Capacity up 162,000,000 Gallons), Milwaukee, Wis. (See adv. index & branch offices, end of book)

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)

Pumps (Ship & Deck)

Barnes Mfg. Co., Mansfield, O.

Bishop, Wm. Sons (Brass Deck Fire), 205 South, N. Y.

CARPENTER, GEO. B. & CO., 202 S Water, Chicago, Ill. (See adv. index, end of book)

Deming Co., Salem, O.

Edson Mfg. Co., 257 Atlantic av, Boston, Mass.

GOULDS MFG. CO., Seneca Falls, N. Y. (See adv. index & branch offices, end of book)

Humphries Mfg. Co., Mansfield, O.

Marine Mfg. & Supply Co., 158 South, New York

O'Crowley, J. J., 45 Hudson, Jersey City, N. J.

RUMSEY & CO. (Ltd.), Seneca Falls, N. Y. (See adv. below; branch offices, end of book)

Sands, Alfred B. & Son, 242 Water, New York

SCHAEFFER & BUDENBERG MFG. Co. (Portable), Foxboro, Mass. (See adv. index & branch offices, end of book)

Vanuzen, E. W. Co., 428 E. 2d, Cincinnati, O.

Pumps (Sinking)

Allentown Rolling Mills (Electric, Vertical, Triplex, etc.), Allentown, Pa.

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)

Boys, Porter & Co., Connersville, Pa. book

Buffalo Steam Pump Co., Buffalo, N. Y.

Cameron, A. S. Steam Pump Works, ft. of E. 23d, N. Y.

Canton-Hughes Pump Co., Canton & Cleveland, O.

Clot & Christ Machine Co., 137 Beale, San Francisco, Cal.

FAIRBANKS, MORSE & CO. (Electric & Steam), Franklin & Monroe, Chicago, Ill. (See adv. index & branch offices, end of book)

GOULDS MFG. CO., Seneca Falls, N. Y. (See adv. index & branch offices, end of book)

Hall Steam Pump Co., Allegheny, Pa.

Hendy, Joshua Machine Works, 38 Fremont, San Francisco, Cal.

International Steam Pump Co., 114 Liberty, N. Y.

Jeanesville Iron Works Co. (Steam or Electric), Hazleton, Pa.

Mine & Smelter Supply Co., Denver, Colo.

National Steam Pump Co., Upper Sandusky, O.

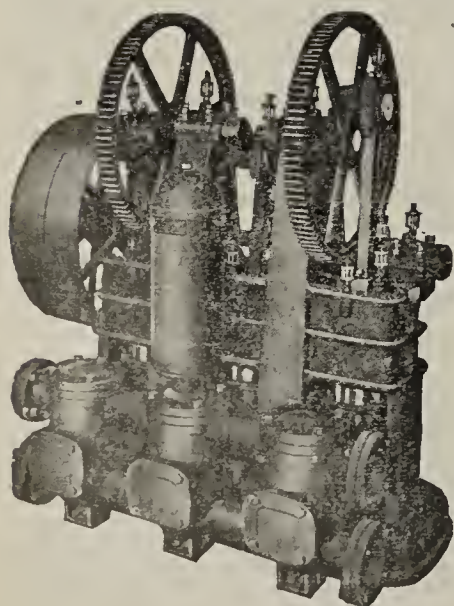
Platt Iron Works Co., Dayton, O., & 100 B'way, New York

Prescott, Fred M. Steam Pump Co., West Allis, Wis.

QUIMBY, WM. E. (Inc.), 44-60 E. 23d, New York. (See adv. index, end of book)

Union Iron Works, 222 Market, San Francisco, Cal.

Union Steam Pump Co., Battle Creek, Mich.



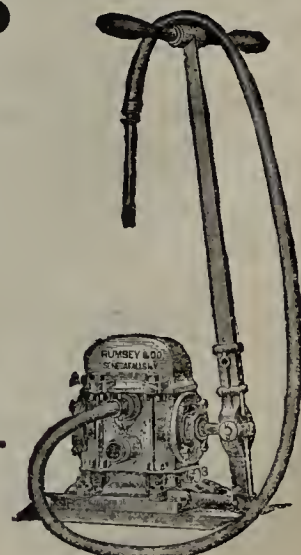
RUMSEY PUMPS

We Manufacture over 1,200
Varieties of Hand and Power
Pumps for all Duties. ❀ ❀

WRITE US YOUR REQUIREMENTS.

RUMSEY & COMPANY, Ltd.
SENECA FALLS, N. Y., U. S. A.

ESTABLISHED 1840.



*Pumps (Size)

COHOES IRON FOUNDRY & MACHINE Co., Cohoes, N. Y. (See adv. index, end of book)
GOULDS MFG. CO., Seneca Falls, N. Y. (See adv. index & branch offices, end of book)

Pumps (Spray)

Barnes Mfg. Co., Mansfield, O.
 Bean Spray Pump Co. (Bean Spray), San Jose, Cal.
BERGER MFG. CO. (House & Farm), Main Office & Works, Canton, O. (See adv. index & branch offices, end of book)
 Cedar Rapids Pump Co., Cedar Rapids, Iowa
 Childs, Chas. H. & Co. (Electric), Utica, N. Y.
 Church Mfg. Co. (Pneumatic), Adrian, Mich.
 Dayton Supply Co. ("Nixon-Climax," for Lawn & Field), Dayton, O.
 De Clercy Bros., Cazenovia, N. Y.
 Deming Co., Salem, O.
 Doughton, H. W., Moorestown, N. J.
 Douglas, W. & B., Middletown, Conn., & 83 John, New York
 Eureka Mower Co. (Atomizers), Utica, N. Y.
 Everett, J. A. (Sprayers & Powder Distributors), Indianapolis, Ind.
 Field Force Pump Co. ("Empire King, Garfield, Knapsack, Red Jacket & Aroostock," Potato Sprayer, "Orchard Monarch"), Elmira, N. Y.
 Friend Mfg. Co., Gasport, N. Y.
 Gaylord, J. F., Catskill, N. Y.
GOULDS MFG. CO., Seneca Falls, N. Y. (See adv. index & branch offices, end of book)
 Hardie Spray Pump Co., Detroit, Mich.
 Hess, Snyder Co., Massillon, O.
 Holl Mfg. Co., 333 Main, Buffalo, N. Y.
 Humphries Mfg. Co., Mansfield, O.
 Hurst, H. L. Mfg. Co., Canton, O.
 Kohler, F. E. & Co., Canton, O.
 Lenox Spraying & Chemical Co. (Lenox Spraying Apparatus), Pittsfield, Mass.
 McDonald, A. Y., & Morrison Mfg. Co., Dubuque, Iowa
 Marcy, R. G. Mfg. Co., Bluffton, Ind.
 Mast, Foos & Co. ("Buckeye"), Springfield, O.
 Myers, F. E. & Bro., Ashland, O.
 Morrill & Morley (The "Eclipse & Eureka"), Benton Harbor, Mich.
 Peppler, Thos. (Sprayers), Hightstown, N. J.
 Porter, J. E. Co., Ottawa, Ill.
 Potato Implement Co. (Knapsack Sprayers, Atomizers & Powder Guns), Traverse City, Mich.
 Red Jacket Mfg. Co., Davenport, Ia.
 Ripple Hardware Co. (Sprayers), Grafton, Ill.
 Rochester Spray Pump Co. (E. J. Seeber, Prop.), Rochester, N. Y.
 Rome Bicycle Mfg. Co., Rome, N. Y.
RUMSEY & CO., Ltd. (Force & Knapsack), Seneca Falls, N. Y. (See adv. on preceding page; branch offices, end of book)
 Sandwich Mfg. Co., Sandwich, Ill.
 Shangle, Jno. R., Hightstown, N. J.
 Smith, D. B. & Co., Utica, N. Y.
 Smith, F. B. Mfg. Co., Buffalo, N. Y.
 Stahl, Wm., Sprayer Co., Quincy, Ill.
STANDARD PNEUMATIC SPRAY CO., 500 5th av., New York. (See adv. index, end of book)
 Standard Stamping Co. ("Standard"), Marysville, O.
 Stevens & Co., 99 Chambers, N. Y.
 Stewart, A. T. & Co. (Mist-Sprayers), Carnegie, Pa.
 Treharn Pump Co., Rockford, Ill.
 Union Steam Pump Co. (Fruit Spraying), Battle Creek, Mich.
 Utica Sprayer Co., Utica, N. Y.

Pumps (Steam)

Advance Pump & Compressor Co., Battle Creek, Mich.
 Aetna Foundry & Machine Co., Springfield, Ill.
 Ajax Iron Works, Corry, Pa.
 Albany Steam Trap Co., Albany, N. Y.
ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)
 American Steam Pump Co., Battle Creek, Mich.
AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)
 Atwood & Morrill, Salem, Mass.
 Barr Pump Co., 18th & Lehigh av., Phila., Pa.
 Blakeslee Mfg. Co., Du Quoin, Ill.
 Boyts, Porter & Co., Connellsville, Pa.
 Buffalo Steam Pump Co., Buffalo, N. Y.
 Burton & Johnson, 107 W Centre, Cleveland, O.
 Caldwell, E. R. & Co., Bradford, Pa.
 Camden Iron Works, Camden, N. J.

Cameron, A. S., Steam Pump Works, ft E 23d, New York
 Canton-Hughes Pump Co., Canton & Cleveland, O.
 Cartin's, Thos. Sons Co., 1300 River av., Allegheny, Pa.
 Carpenter, Thos. D., 93 Pearl, Brooklyn, N. Y.
 Carthage Fdry. & Machine Co., Carthage, Mo.
 Climax Ice Machine Supply & Pump Co., ("McCrary Duplex" for Ice & Refrigerating Machines), 136 Liberty, N. Y. City
CODD, E. J., CO. (Duplex), 700-708 S Carolina, Baltimore, Md. (See adv. index, end of book)
 Columbus Steam Pump Works, Columbus, O.
 Connersville Machine & Car Co. ("Lafayette"), Connersville, Pa.
 Cook, A. D., Lawrenceburg, Ind.
 Cook Well Co., 15 S 4th, St. Louis, Mo.
 Clot & Christ Machine Co., 137 Beale, San Francisco, Cal.
 Crawford & McCrimmon Co., Brazil, Ind.
 Crown Iron Works Co., Minneapolis, Minn.
 D'Auria Pumping Engine Co., Drexel bldg., Phila., Pa.
 Davidson, M. T., 141 B'way, N. Y.; & 43 Keap, Brooklyn, N. Y.
 Dean Bros.' Steam Pump Works, Indianapolis, Ind.
 Douglas, W. & B., 83 John, New York, & Middletown, Conn.
 Dow, Geo. E. Pumping Engine Co., 179 1st, San Francisco, Cal.
 Downie Pump Co., Downsville, Pa.
 Economic Power & Pump Co., 1907 Park av., New York
 Edwards, Jos. & Co., 412 Water, N. Y.
 Emerson Steam Pump Co. (Steam Vacuum), Mertz bldg. Washington, D. C.
 Empire State Engineering Co., 116th & E. R., New York
 Epling-Carpenter Co., 41st & A. V. R. R., Pittsburg, Pa.
 Escanaba Iron Works, Escanaba, Mich.
 Evans, C. H. & Co. ("Thomson & Evans"), San Francisco, Cal.
FAIRBANKS, MORSE & CO. (Duplex), Franklin & Monroe, Chicago, Ill. (See adv. index & branch offices, end of book)
 Fenton Iron Works, Fenton, Mich.
 Filer & Stowell Co., Home Office, Milwaukee, Wis.
 Findlay Foundry & Machine Co., Findlay, O.
FOSTER PUMP WORKS ("Hardick"), 224 Plymouth, Brooklyn, N. Y.
 Frost Mfg. Co., Galesburg, Ill.
GARDNER GOVERNOR CO., Quincy, Ill. (See adv. index, end of book)
 Garratt, W. T. & Co., 142 Fremont, San Francisco, Cal.
 Globe Machinery & Supply Co., 418 W Court av., Des Moines, Ia.
GOULDS MFG. CO., Seneca Falls, N. Y. (See adv. index & branch offices, end of book)
 Goynne Steam Pump Co. (Goynne Bros., Props.), Ashland, Pa.
 Grant Iron Works, Mahanoy City, Pa.
 Great Lakes Engineering Works, Detroit, Mich.
 Guild & Garrison, Kent av. & S. 10th, Brooklyn, N. Y.
 Hall Steam Pump Co., Allegheny, Pa.
 Heisler Mfg. Co., St. Marys, O.
 Hendy, Joshua Machine Works, 38 Fremont, San Francisco, Cal.
 Hill Machine Co., Anderson, Ind.
 Hooker Steam Pump Co., St. Louis, Mo.
 Hubbard's, Norman Sons ("Nlagara"), 265 Water, Brooklyn, N. Y.
 International Steam Pump Co., 114 Liberty, New York
 Jackson, Byron, Machine Works, 411 Market, San Francisco, Cal.
 Jeanesville Iron Works, Hazleton, Pa.
 Kensington Engine Works, 245 Broad, Phila., Pa.
 Kingsford Foundry & Machine Works, Oswego, N. Y.
 Kruger & Blind Co., 511 Master, Phila., Pa.
 Lawrence Machine Co., Lawrence, Mass.
 Leyner, J. Geo. Engineering Works Co., Littleton, Colo.
 Luitwieler Pumping Engine Co., Los Angeles, Cal.
 McGowan, John H. Co., 56 Central av., Cincinnati, O.
 Manistee Iron Works Co., Manistee, Mich.
MARINE ENGINE & MACHINE CO. ("Groshon"), 126 Liberty, New York
 Works, Harrison, N. J. (See adv. index, end of book)
 Marlon Machine & Tool Co. ("High Duty"), Marlon, Ind.
 Maslin, John & Son, 167 1st, Jersey City, N. J.

MINNEAPOLIS STEEL & MACHINE Co., Minneapolis, Minn. (See adv. index & branch offices, end of book)
 Moore Chas. C. & Co., 63 1st, San Francisco, Cal.
MORRIS MACHINE WORKS, Baldwinsville, N. Y. (See adv. index, end of book)
 Mullen, Jno. & Son, Shamokin, Pa.
 National Foundry & Machine Co., Louisville, Ky.
 National Steam Pump Co. (High Duty), Upper Sandusky, O.
 Nye Steam Pump & Machinery Co., 70 W Wash'n, Chicago, Ill.
 Ohio Steam Pump Co., Canton, O.
 Patten Bros. Co., Marletta, O.
PITTSBURG VALVE, FOUNDRY & CONSTRUCTION Co., 26th & A. V. Ry., Pittsburg, Pa. (See adv. index, end of book)
 Platt Iron Works Co., Dayton, O., & 100 Broadway, New York
 Prescott, F. M., Steam Pump Co., West Allis, Wis.
 Pulsometer Steam Pump Co., Whitehall bldg., New York
 Queen City Engineering Co., Buffalo, N. Y.
 Raymond Mfg. Co., Middletown, Pa.
 Reliance Machine & Tool Works ("Hooker"), 3333 Franklin av., St. Louis, Mo.
 Roberts, George J. & Co., Dayton, O.
 Rodgers Iron Mfg. Co., Muskegon Mich.
 Roots, P. H. & F. M. Co., Connersville, Ind.
RUMSEY & CO. (Ltd.), Seneca Falls, N. Y. (See adv. on preceding page; branch offices, end of book)
SCHAEFFER & BUDENBERG MFG. Co. (Plstonless), Foxboro, Mass. (See adv. index & branch offices, end of book)
 Scott Valve Co., 231 Randolph, Chicago, Ill.
 Scranton Steam Pump Co., Scranton, Pa.
 Sineall Bros., Amsterdam, N. Y.
 Smedley Steam Pump Co., Dubuque, Ia.
 Smith Pump Co., Titusville, Pa.
 Snow Steam Pump Works, 114 Liberty, New York, & Buffalo, N. Y.
 Southwark Foundry & Machine Co., Phila., Pa.
SPRINGFIELD ELEVATOR & PUMP CO. (See adv. index & branch offices, end of book)
 Stewart Heater Co., Buffalo, N. Y.
 Syduor Pump & Well Co., Richmond, Va.
 Taber Pump Co. (Portable), 90 Ellicott, Buffalo, N. Y.
 Thompson Mfg. Co., Lancaster, N. H.
 Titusville Iron Co., Titusville, Pa.
 Union Iron Works, 222 Market, San Francisco, Cal.
 Union Steam Pump Co. ("Moore," "Burnham"), Battle Creek, Mich.
 Vanduzen, E. W. Co., 428 E 2d, Cincinnati, O.
 Van Wle Pump Co., 715 W Fayette, Syracuse, New York
 Wagener Steam Pump Co., Louisville, O.
 Walker Mfg. Co., Fenton, Mich.
 Walworth Mfg. Co., 132 Federal, Boston, Mass.
 Warren Steam Pump Co., Warren, Mass.
 Watson-Stillman Co., 210 E 43d, N. Y.
 Weinman Machine Works, Columbus, Ohio.
 Welr & Cralg Mfg. Co., 2435 Wallace, Chicago, Ill.
 Wells, F. C. (Est. of), 116 S Clinton, Chicago, Ill.
 Wetmore Iron Works, Lowville, N. Y.
 Wheeler, C. H. Mfg. Co., Lehigh & N 8th, Phila., Pa.
 Wheeler Condenser & Engineering Co., 42 B'way, New York
 Wilkinson Mfg. Co., Bridgeport, Pa.
 Willamette Iron & Steel Works, Portland, Ore.
 Wilson-Snyder Mfg. Co., Ross & Water, Pittsburg, Pa.
 Wood, R. D. & Co., 400 Chestnut, Phila., Pa.
 York Mfg. Co. (Ltd.), York, Pa.

Pumps (Steam Turbine)

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)
 De Laval Steam Turbine Co., Trenton, N. J.
 Prescott, Fred M., Steam Pump Co., West Allis, Wis.

Pumps (Sugar House)

American Steam Pump Co., Battle Creek, Mich.
AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)
 Buffalo Steam Pump Co., Buffalo, N. Y.
 Cameron, A. S. Steam Pump Works, ft E 23d, N. Y.
 Canton-Hughes Pump Co., Canton & Cleveland, O.
 Davidson, M. T., 141 B'way, N. Y., & 43 Keap, Brooklyn, N. Y.

Dean Bros.' Steam Pump Works, Indianapolis, Ind.
Douglas, W. & B., Middletown, Conn., & 85 John, N. Y.

Epping-Carpenter Co., Pittsburg, Pa.
FAIRBANKS, MORSE & CO., Franklin & Monroe, Chicago, Ill. (See adv. index & branch offices, end of book)

GOULDS MFG. CO., Seneca Falls, N. Y. (See adv. index & branch offices, end of book)

International Steam Pump Co., 114 Liberty, N. Y.

National Fdy. & Machine Co., Louisville, Ky.

Pioneer Iron Works, 149 Pioneer, Brooklyn, N. Y.

QUIMBY, WM. E. (Inc.), 44-60 E. 23rd, New York. (See adv. index, end of book)

Roots, P. H. & F. M. Co., 3341 Franklin av., Connersville, Ind.

RUMSEY & CO. (Ltd.), Seneca Falls, N. Y. (See adv. index & branch offices, end of book)

Squier, Geo. L. Mfg. Co., 420 Niagara, Buffalo, N. Y.

Union Steam Pump Co., Battle Creek, Mich.

Wells, F. C. (Est. of), 116 S Clinton, Chicago, Ill.

Pumps (Syphon)

Barnes Mfg. Co., Mansfield, O.

Chaplin-Fulton Mfg. Co., 28 Penn av., Pittsburg, Pa.

Deming Co., Salem, O.

Eynon-Evans Mfg. Co., 1519 Clearfield, Philadelphia, & 107 Liberty, N. Y.

GOULDS MFG. CO., Seneca Falls, N. Y. (See adv. index & branch offices, end of book)

Humphries Mfg. Co., Mansfield, O.

Leng's, Jno. S. Son & Co. ("Lansdell's"), 33 Murray, New York

Myers, F. E. & Bro., Ashland, O.

Schutte & Koerting Co., 1251 N 12th, Philadelphia, Pa.

WILSON, F. CORTEZ & CO., 239 Lake, Chicago, Ill. (See adv. index, end of book)

Pumps (Tank)

American Steam Pump Co., Battle Creek, Mich.

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)

Barnes Mfg. Co., Mansfield, O.

Blakeslee Mfg. Co., Du Quoin, Ill.

Bowser, S. F. & Co. (Inc.), Ft. Wayne, Ind.

Boys, Porter & Co., Connersville, Pa.

Buffalo Pitts. Co. (Low Down), Buffalo, N. Y.

Bushnell Pump Co., Bushnell, Ill.

Cameron, A. S. Steam Pump Works, ft E 23d, N. Y.

Case, J. I. Threshing Machine Co., Racine, Wis.

Cedar Rapids Pump Co., Cedar Rapids, Ia.

Challenge Wind Mill & Feed Mill Co., Batavia, Ill.

Clot & Christ Machine Co., 137 Beale, San Francisco, Cal.

Deming Co., Salem, O.

Epping-Carpenter Co., Pittsburg, Pa.

FAIRBANKS, MORSE & CO., Franklin & Monroe, Chicago, Ill. (See adv. index & branch offices, end of book)

Flint & Walling Mfg. Co., Kendallville, Ind.

Foster Pump Works, 224 Plymouth, Brooklyn, N. Y.

GARDNER GOVERNOR CO., Quincy, Ill. (See adv. index, end of book)

GOULDS MFG. CO., Seneca Falls, N. Y. (See adv. index & branch offices, end of book)

Hayes Pump & Planter Co., Galva, Ill.

Humphries Mfg. Co., Mansfield, O.

Love Mfg. Co., Rockford, Ind.

Lucas, C. O. & Co., Greenville, O.

Luitwieler Pumping Engine Co. ("Non-Pulsating"), Los Angeles, Cal.

McDonald, A. Y. & Morrison Mfg. Co., Duquaque, Ia.

McGowan, Jno. H. Co., Cincinnati, O.

Manistee Iron Works Co., Manistee, Mich.

Marcy Mfg. Co., Bluffton, Ind.

Marion Machine & Tool Co., ("Low Duty"), Marion, Ind.

Mast, Foos & Co. ("Buckeye"), Springfield, O.

Myers, F. E. & Bro., Ashland, O.

National Foundry & Machine Co., Louisville, Ky.

National Steam Pump Co. (Low Duty), Upper Sandusky, O.

Nichols & Shepard Co. (Low Down), Battle Creek, Mich.

Peters Pump Co., Kewanee, Ill.

Port Huron Mfg. Co., Port Huron, Mich.

Porter, J. E. Co., Ottawa, Ia.

Prescott, Fred M., Steam Pump Co., West Allis, Wis.

QUIMBY, WM. E. (Inc.), 44-60 E. 23rd, New York (See adv. index, end of book)

Racine Rice Machinery Co., Racine, Wis.

Red Jacket Mfg. Co., Davenport, Ia.

Roots, P. H. & F. M. Co., Connersville, Ind.

RUMSEY & CO. (Ltd.), Seneca Falls, N. Y. (See adv. index & branch offices, end of book)

Smearlie Bros., Amsterdam, N. Y.

Stewart Heater Co., 396 Norfolk av., Buffalo, N. Y.

Union Steam Pump Co., Battle Creek, Mich.

U. S. Wind Engine & Pump Co., Batavia, Ill.

Wagener Steam Pump Co., Bucyrus, O.

Ward Pump Co., Rockford, Ill.

Weinman Machine Works, Columbus, Ohio.

Wells, F. C. (Est. of), 116 S Clinton, Chicago, Ill.

WHITMAN & BARNES MFG. CO., Chicago, Ill., & 111 Chambers, New York. (See adv. index, end of book)

Pumps (Tar)

Cameron, A. S. Steam Pump Works, ft. E. 23d, New York

FAIRBANKS, MORSE & CO., Franklin & Monroe, Chicago, Ill. (See adv. index & branch offices, end of book)

GOULDS MFG. CO., Seneca Falls, N. Y. (See adv. index & branch offices, end of book)

Pumps (Test)

ASHCROFT MFG. CO., THE, 85, 87 & 89 Liberty, New York. Works: Bridgeport, Conn. (See adv. index, end of book)

Belfield, H. & Co., 433 N Broad, Philadelphia, Pa.

BERNZ, OTTO, S. 13th & S. Orange av., Newark, N. J. (See adv. index, end of book)

Boekel, Wm. & Co. (Gas Fitters), 518 Vine, Philadelphia, Pa.

Cleveland Steam Gauge Co., 1619 Merwin, N. W., Cleveland, O.

CROSBY STEAM GAGE & VALVE CO., 95 Oliver, Boston, Mass., & 16 Dey, New York, N. Y. (See adv. index, end of book)

Douglas, W. & B., Middleton, Conn.: 85 John New York

GOULDS MFG. CO., Seneca Falls, N. Y. (See adv. index & branch offices, end of book)

Henderer's, A. L. Sons (Boiler Makers), Wilmington, Del.

Lawler Water Feed & Damper Regulator Co., 158 Wooster, New York

Lovejoy Tool Works, 90 Ohio, Chicago, Ill.

Perkes, Chas., 427 Arch, Philadelphia, Pa.

RUMSEY & CO. (Ltd.), Seneca Falls, N. Y. (See adv. index & branch offices, end of book)

SCHAEFFER & BUDENBERG MFG. CO., Foxboro, Mass. (See adv. index & branch offices, end of book)

Schutte & Koerting Co., 1251 N 12th, Philadelphia, Pa.

STANDARD GAUGE MFG. CO., Syracuse, N. Y. (See adv. index & branch offices, end of book)

Pumps (Tire)

(See Pumps, Air, Tire.)

Pumps (Triplex)

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)

Cameron, A. S. Steam Pump Works, ft. E. 23d, New York

Deming Co., Salem, O.

FAIRBANKS, MORSE & CO., Franklin & Monroe, Chicago, Ill. (See adv. index & branch offices, end of book)

GOULDS MFG. CO., Seneca Falls, N. Y. (See adv. index & branch offices, end of book)

MINNEAPOLIS STEEL & MACHINERY CO., Minneapolis, Minn. (See adv. index & branch offices, end of book)

RUMSEY & CO. (Ltd.), Seneca Falls, N. Y. (See adv. index & branch offices, end of book)

Pumps (Turbine)

Alberger Condenser Co., 95 Liberty, New York, N. Y.

Buffalo Steam Pump Co., Buffalo, N. Y.

International Steam Pump Co., 114 Liberty, New York

Kingsford Foundry & Machine Works (Motor Driven), Oswego, N. Y.

Platt Iron Works Co., Dayton, O.

Prescott, Fred M., Steam Pump Co., West Allis, Wis.

Pumps (Vacuum)

Alberger Condenser Co., 95 Liberty, New York

American Air Compressor Works, 26 Cortlandt, N. Y., & Van Brunt & Summit, Brooklyn, N. Y.

American Steam Pump Co., Battle Creek, Mich.

Beach-Russ Co., Long Island City, N. Y.

Blakeslee Mfg. Co., Du Quoin, Ill., & Birmingham, Ala.

Buffalo Steam Pump Co. (Crank & Flywheel & Single Cylinder), Buffalo, N. Y.

Bury Compressor Co., Erie, Pa.

Canton-Hughes Pump Co., Canton & Cleveland, O.

Carlin Machy. & Supply Co., Allegheny, Pa.

Carpenter, Thos. D., 93 Pearl, Brooklyn, N. Y.

CHICAGO PNEUMATIC TOOL CO., Fisher bldg., Chicago, Ill. (See adv. index & branch offices, end of book)

Columbus Steam Pump Works, Columbus, O.

Crowell, Gilmer ("Crowell"), 292 Graham, Brooklyn, N. Y.

Davidson, M. T. (Air & Vacuum), 43 Keap, Brooklyn, N. Y., & 141 Broadway, N. Y.

Dayton Hydraulic Machinery Co., Dayton, O.

Dean Bros. Steam Pump Works, Indianapolis, Ind.

Devine, J. P. Co. ("Emil Passburg" system), Buffalo, N. Y.

Economic Power & Pump Co., 1907 Park av., New York

Emerson Steam Pump Co. (Steam), Mertz bldg., Washington, D. C.

Epping-Carpenter Co., Pittsburg, Pa.

FAIRBANKS, MORSE & CO., Franklin & Monroe, Chicago, Ill. (See adv. index & branch offices, end of book)

GOULDS MFG. CO., Seneca Falls, N. Y. (See adv. index & branch offices, end of book)

Guild & Garrison, Kent av & S 10th, Brooklyn, N. Y.

Heisler Mfg. Co. (Wet & Dry), St. Marys, O.

Hubbard's, Norman Sons ("Packard"), 265 Water, Brooklyn, N. Y.

International Steam Pump Co., 114 Liberty, N. Y.

Marion Machine & Tool Co. (Low Duty), Marion, Ind.

Maslin, Jno. & Son, 163 1st, Jersey City, N. J.

National Foundry & Machine Co., Louisville, Ky.

New York Air Brake Co., 66 B'way, N. Y., & Fisher bldg., Chicago

Platt Iron Works Co., Dayton, O., & 100 Broadway, New York

Roteng Engineering Corporation, 299 Broadway, New York

RUMSEY & CO. (Ltd.) (Air Compressed Pump Combined), Seneca Falls, N. Y. (See adv. index & branch offices, end of book)

Schutte & Koerting Co., 1251 N 12th, Philadelphia, Pa.

Union Steam Pump Co., Battle Creek, Mich.

Weinman Machine Works, Columbus, Ohio.

West St. Louis Machine & Tool Co., St. Louis, Mo.

Wheeler Condenser Engineering Co. (Wet & Dry), 42 B'way, New York. Works, Carteret, N. J.

Pumps (Water Works)

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)

BETHLEHEM FOUNDRY & MACHINE CO. (50,000 to 3,000,000 Gals. in 24 hours), South Bethlehem Pa., & 149 B'way, N. Y. (See adv. index, end of book)

Buffalo Steam Pump Co., Buffalo, N. Y.

Deming Co., Salem, O.

Epping-Carpenter Co., Pittsburg, Pa.

FAIRBANKS, MORSE & CO., Franklin & Monroe, Chicago, Ill. (See adv. index & branch offices, end of book)

GARDNER GOVERNOR CO., Quincy, Ill. (See adv. index, end of book)

GOULDS MFG. CO., Seneca Falls, N. Y. (See adv. index & branch offices, end of book)

Heisler Mfg. Co. (Horizontal), St. Marys, O.

Luitwieler Pumping Engine Co. ("Non-Pulsating"), Los Angeles, Cal.

McGowan, Jno. H. Co., Cincinnati, O.

MARINE ENGINE & MACHINE CO. ("Groshon"), 126 Liberty, New York. Works, Harrison, N. J. (See adv. index, end of book)

MINNEAPOLIS STEEL & MACHINERY CO., Minneapolis, Minn. (See adv. index & branch offices, end of book)

National Foundry & Machine Co., Louisville, Ky.

National Steam Pump Co., Upper Sandusky, O.

PITTSBURG VALVE, FOUNDRY & CONSTRUCTION Co., 26th & A. V. Ry., Pittsburgh, Pa. (See adv. index, end of book)
Platt Iron Works Co., Dayton, O., & 100 Broadway, New York
Prescott, Fred M., Steam Pump Co., West Allis, Wis.
Roots, P. H. & F. M. Co. (Rotary Pressure), Connorsville, Ind.
RUMSEY & CO. (Ltd.), Seneca Falls, N. Y. (See adv. index & branch offices, end of book)
Wagener Steam Pump Co., Louisville, O.
Wells, F. C. (Est. of), 116 S. Clinton, Chicago, Ill.

Pumps (Windmill)

(See also Windmills)

Aermotor Co., Campbell av., nr. 12th, Chicago, Ill.
Aithouse-Wheeler Co., Waupun, Wis.
AMERICAN WELL WORKS (Hand), Aurora, Ill. (See adv. index & branch offices, end of book)
Baker Mfg. Co., Evansville, Wis.
Barnes Mfg. Co., Mansfield, O.
Butler Co., Butler, Ind.
Chandler Pump Co., Cedar Rapids, Ia.
Cook Well Co., 15 S 4th, St. Louis, Mo.
CORCORAN, A. J. (Inc.), 11 John, New York. Works, Jersey City, N. J. (See adv. index, end of book)
Deming Co., Salem, O.
Douglas, W. & B., Middletown, Conn., & 85 John, New York
Duplex Mfg. Co., South Superior, Wis.
Elgin Wind Power & Pump Co., Elgin, Ill.
FAIRBANKS, MORSE & CO. ("Eclipse" Anti Freezing), Franklin & Monroe, Chicago, Ill. (See adv. index & branch offices, end of book)
Fleld Force Pump Co. (Force), Elmira, N. Y.
Fleming & Sons, Portland, Ind.
Flint & Walling Mfg. Co., Kendallville, Ind.
Genoa Mfg. Co., Genoa, O.
GOULDS MFG. CO., Seneca Falls, N. Y. (See adv. index & branch offices, end of book)
Hayes Pump & Planter Co.
Humphryes Mfg. Co., Mansfield, O.
KEWANEE WATER SUPPLY CO., Kewanee, Ill. (See adv. index, end of book)
Marcy, R. G. Mfg. Co., Bluffton, Ind.
Mast, Foos & Co., Springfield, O.
Maud S. Windmill & Pump Co., Lansing, Mich.
Myers, F. E. & Bro., Ashland, O.
Moline Pump Co., Moline, Ill.
Pacific Pump & Windmill Co., San Francisco, Cal.
Peters Pump Co., Kewanee, Ill.
Phelps & Begelow Windmill Co., Kalamazoo, Mich.
Pierce Well Engineering & Supply Co., 90 West, New York
RUMSEY & CO. (Ltd.), Seneca Falls, N. Y. (See adv. index & branch offices, end of book)
Sharp Mfg. Co., Albert Lea, Minn.
Snow Mfg. Co., Batavia, Ill.
Temple Pump Co., 15th Place, Chicago, Ill.
U. S. Wind Engine & Pump Co., Batavia, N. Y.
Woodmanse Mfg. Co., Freeport, Ill.
Zimmerman Mfg. Co., Auburn, Ind.

Pumps (Wood)

Adams, S., Connorsville, Ind.
Aithouse-Wheeler Co., Waupun, Wis.
American Pump & Supply Co., Toledo, O.
Biggs, B. F. Pump Co., Lafayette, Ind.
Blatchley, Chas. G., S Swanson & McKean, Phila., Pa.
Bushnell Pump Co., Bushnell, Ill.
Cedar Rapids Pump Co., Cedar Rapids, Ia.
Challenge Co., Batavia, Ill.
Chandler Pump Co., Cedar Rapids, Ia.
Childs, Chas. H. & Co., Utica, N. Y.
Cincinnati Pump Co., Cincinnati, O.
Cole Bros. Lightning Rod Co., Greencastle, Ind.
Decatur Lumber & Mfg. Co., Decatur, Ill.
Depmster Mill Mfg. Co., Beatrice, Neb.
Florence Pump & Lumber Co., Memphis, Tenn.
Furber, Frank O., Saco, Maine
Gouverneur Wood Pulp Co., Gouverneur, N. Y.
Hall Pump Works, Gowanda, N. Y.
Harris & Cole Bros., Cedar Rapids, Ia.
Howard & Jennings, Syracuse, N. Y.
I. X. L. & Goshen Pump Co., Goshen, Ind.
Knight & Jilson Co., Indianapolis, Ind.
McDonald, A. Y. & Morrison Mfg. Co., Dubuque, Ia.
Mercer, B. F. Alliance, O.
Moline Pump Co., Moline, Ill.
Nelson, N. O. Mfg. Co., 8th & St. Charles, St. Oids Pump Co., Erie, Pa. Louis, Mo.
North Vernon Pump & Lumber Co., North Vernon, Ind.

Rich Pump Co., Cincinnati, O.
St. Joseph Pump & Mfg. Co., St. Joseph, Mo.
Taylor Pump Co., Brasher Falls, N. Y.
Temple Pump Co., 27 W. 15th pl, Chicago, Ill.
Torrent Pump Co., Sebring, O.
U. S. Wind Engine & Pump Co., Batavia, Ill.
West, Wm. S., Chillicothe, O.
Winship Mfg. Co., Racine, Wis.
Wood, G. R. & Sons, Sheffield, Pa.

Pumps (Wrecking)

Blakeslee Mfg. Co., DuQuoin, Ill.
Buffalo Steam Pump Co., Buffalo, N. Y.
Canton-Hughes Pump Co., Canton & Cleveland, O.
Davidson, M. T., 141 B'way, N. Y., & 43 Keap, Brooklyn, N. Y.
Dean Bros.' Steam Pump Works, Indianapolis, Ind.
Douglas, W. & B., Middletown, Conn., & 85 John, N. Y.
Epping-Carpenter Co., 41st & A. V. Ry., Pittsburgh, Pa.
GOULDS MFG. CO., Seneca Falls, N. Y. (See adv. index and branch offices, end of book)
Kingsford Foundry & Machine Works, Oswego, Lake City Engineering Co., Erie, Pa. N. Y.
International Steam Pump Co., 114 Liberty, New York
MORRIS MACHINE WORKS, Baldwinville, N. Y. (See adv. index, end of book)
National Foundry & Machine Co., Louisville, Ky.
Nye Steam Pump & Machine Co., 70 W Washington, Chicago, Ill.
Platt Iron Works Co., Dayton, O., & 100 Broadway, New York
Roots, P. H. & F. M. Co., Connorsville, Ind.
Swenson, J., ft. of Warren, Jersey City, N. J.
Van Wie Pump Co., 715 W Fayette, Syracuse, N. Y.
Wilson-Snyder Mfg. Co., Ross & Water, Pittsburgh, Pa.

Pumps & Boilers (Combined)

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)
Blakeslee Mfg. Co., Du Quoin, Ill. (book)
Buffalo Steam Pump Co., Buffalo, N. Y.
Cameron, A. S. Steam Pump Works, ft. E 23d, N. Y.
Canton-Hughes Pump Co., Canton & Cleveland, O.
Columbus Steam Pump Works, Columbus, O.
Davidson, M. T., 141 B'way, N. Y., & 43 Keap, Brooklyn, N. Y.
Dean Bros.' Steam Pump Works, Indianapolis, Ind.
Dow, Geo. E. Pumping Engine Co., 179 1st, San Francisco, Cal.
FAIRBANKS, MORSE & CO., Franklin & Monroe, Chicago, Ill. (See adv. index & branch offices, end of book)
Hall Steam Pump Co., Allegheny, Pa.
International Steam Pump Co., 114 Liberty, N. Y.
LAMBERT HOISTING ENGINE CO., Main Office & Works, 115-121 Poinier, Newark, N. J. (See adv. index & branch offices, end of book)
National Foundry & Machine Co., Louisville, Ky.
Platt Iron Works Co., Dayton, O., & 100 Broadway, New York
Roberts, Geo. J. Co., Dayton, O.
Roots, P. H. & F. M. Co., Connorsville, Ind.
Weinman Machine Works, Columbus, Ohio
Wells, F. C. (Est. of), S. Clinton, Chicago, Ill.

Punch & Shear Combined (Hand Power)

BETHLEHEM FOUNDRY & MACHINE Co., Front, South Bethlehem, Pa., & 149 B'way, New York. (See adv. index, end of book)
Whiting, Geo. Co., 156 W North av, Chicago, Ill.

Punch & Shears for Band Saws

Covej Mfg. Co., Benton Harbor, Mich.

When writing to firms listed in this book please mention HENDRICKS' COMMERCIAL REGISTER

Punch & Straightener Combined

Hogg, Geo. A. Iron & Steel Foundry Co. (For Rails), 24th & A. V. Ry., Pittsburgh, Pa.
United Engineering & Foundry Co., Farmers' Bank bldg, Pittsburgh, Pa., & Youngstown, Ohio

Punches (Belt)

Atkins, E. C. & Co. ("Rogers"), Indianapolis, Ind.
Buffalo Specialty Mfg. Co., 375 Ellicott, Buffalo, N. Y.
Kraeuter & Co., Newark, N. J.
MORRILL, CHAS. ("Morriil"), 277 B'way, New York. (See adv. index, end of book)
Peck, Stow & Wilcox Co. ("Hercules"), Southington, Conn.
Rogers, J. J. ("Rogers"), Lincoln, Neb.
Scholihorn, Wm. Co. ("Bernard's"), New Haven, Conn.
Smith, Otis A., Rockfall, Conn.
Smith & Egge Mfg. Co. ("S. & E. M. Co."), Revolving Spring, etc., Bridgeport, Conn.
Springfield Machine Screw Co. ("Diamond" Revolving, Single Saddlers, etc.), Chicopee, Mass.
Vaughn & Bushnell Mfg. Co. ("V. & B."), Solid Steel, Chicago, Ill.
Whiting, Geo. Co., 156 W North av, Chicago, Ill.
WHITMAN & BARNES MFG. CO. (Revolving & Plain Round), Chicago, Ill. (See adv. index & branch offices, end of book)

Punches (Blacksmiths')

ANDERSON FORGE & MACHINE CO., 271 Guoin, Detroit, Mich. (See adv. index, end of book)
Atha Tool Co., Newark, N. J.
Beall Bros., Inc., Alton, Ill.
Bicknell Hardware Co., Janesville, Wis.
Iron City Tool Works, 32d & Smallman, Pittsburgh, Pa.
Klein-Logan Co., S 13th & Breed, Pittsburgh, Pa.
NIAGARA MACHINE & TOOL WKS., Buffalo, N. Y. (See adv. index, end of book)
Pittsburg Tool & Drop Forge Co., Cheswick, Pa.
Sutton, C. E. Co., Toledo, O.
Vaughn & Bushnell ("V. & B."), Center, 875 W. Carroll av., Chicago, Ill.
Verona Tool Works, Verona, Pa., & Murtland bldg, Pittsburgh, Pa.
Whiting, Geo. Co., 156 W North av, Chicago, Ill.

Punches (Boiler)

(See Punching Machines, Boilermakers')

Punches (Boilermakers')

American Die & Tool Co., Reading, Pa.

Punches (Butchers' Saw, Etc.)

Goodell-Pratt Co., Greenfield, Mass.
Thompson, H. G. & Son Co. ("Thompson's"), New Haven, Conn.

Punches (Button Hole)

Kraeuter & Co., Newark, N. J.

Punches (Center & Prick)

ANDERSON FORGE & MACHINE CO., 271 Guoin, Detroit, Mich. (See adv. index, end of book)
Beall Bros., Inc., Alton, Ill.
Braunsdorf-Mueller Co., Elizabeth, N. J.
Browne & Dowd Mfg. Co. (Knurled), Meriden, Conn.
Buck Bros. (And Solid), Millbury, Mass.
Evansville Tool Works, Evansville, Ind.
Goodell-Pratt Co. (Knurled), Greenfield, Mass.
Goodsell Mfg. Co., Greenfield, Mass.
Jennings, C. E. & Co., 42 Murray, New York
Johnson, Wm. (Hedenberg Works), Newark, N. J.
Keystone Mfg. Co. ("Keystone" Center), 41 Chandler, Buffalo, N. Y.
Kraeuter & Co., Newark, N. J.
Mayhew, H. H. Co., Shelburne Falls, Mass.
NIAGARA MACHINE & TOOL WKS., Buffalo, N. Y. (See adv. index, end of book)
Nicol & Co., 57 W. Wash'n, Chicago, Ill.
Peck, Stow & Wilcox Co., Southington, Conn.

Sawyer Tool Mfg. Co., Fitchburg, Mass.
 Springfield Machine Screw Co. ("Diamond"),
 Chicopee, Mass.
 Starrett, L. S. Co. (Machinists, Center, etc.),
 Athol, Mass.
 Stortz, Jno. & Son ("Diamond"), 210 Vine,
 Phila., Pa.
 Syracuse Twist Drill Co. (Knurled, Prick &
 Corrugated Center), Syracuse, N. Y.
 Tuck Mfg. Co., Brockton, Mass.
 Vaughn & Bushnell Mfg. Co. ("V. & B." Tin-
 ners), 875 W. Carroll av., Chicago, Ill.
 Welch, T. E. & Co., 65 Sudbury, Boston.

Punches (Conductors' Ticket, Etc.)

American Railway Supply Co., 24 Park pl.
 New York
 Bridgeport Hardware Co., 481 Iranistan av.
 Bridgeport, Conn.
CINCINNATI MFG. CO., 1243 W 6th.
 Cincinnati, O. (See adv. index, end of book)
 Crocker, L. O., East Braintree, Mass.
 Hanscom, J. F., Saco, Me.
 Johnson, Wm. (Hedenberg Works), Newark,
 Kraeuter & Co., Newark, N. J.
 McGill Ticket Punch Co., 171 S Canal, Chi-
 cago, Ill.
 Meyers, Fred J. Mfg. Co., Hamilton, O.
 Odell-Neal Mfg. Co., Lima, Ohio
 Recording Fare Register Co., New Haven,
 Conn.
 Sayre, L. A. Co., 332 Mulberry, Newark, N. J.
 Schoilhorn, Wm. Co. ("Bernard's"), New
 Haven, Conn.
 Smith & Egge Mfg. Co., Bridgeport, Conn., &
 62 Reade, N. Y.
 Sterling-Meeker Co., 420 Ogden, Newark, N. J.
 Tower & Lyon Co., 95 Chambers, New York
 Wilcox, W. W. & Co., 201 Lake, Chicago, Ill.
 Woodman, R. Mfg. & Supply Co. (Cast Steel),
 63 Oliver, Boston, Mass.

*Punches (Drill)

WHITMAN & BARNES MFG. CO.,
 (Octagon Tool Steel), Chicago, Ill. (See
 adv. index & branch offices, end of book)

Punches (Drive)

ANDERSON FORGE & MACHINE CO.,
 271 Guoin, Detroit, Mich. (See adv. index,
 end of book)
 Bemis & Call Hdw. & Tool Co. (Steel), Spring-
 field, Mass.
 Braunsdorf-Mueller Co., Elizabeth, N. J.
 Buck, Chas., Millbury, Mass.
 Clough, R. M., Tolland, Conn.
 Cronk & Carrier Mfg. Co., Elmira, N. Y.
 Eyelet Tool Co., 40 Lincoln, Boston
 Goodell-Pratt Co. (Knurled), Greenfield, Mass.
 Mayhew, H. H. Co., Shelburne Falls, Mass.
 Peck, Stow & Wilcox Co., Southington, Conn.
 Pittsburg Tool & Drop Forge Co. ("Cheswick"),
 Cheswick, Pa.
 Springfield Machine Screw Co. ("Diamond"),
 Chicopee, Mass.
 Transue & Williams Co., Alliance, O.
 Tuck Mfg. Co., Brockton, Mass.
 Wilcox, Crittenden & Co., Middletown, Conn.

*Punches (Embossing)

PERKINS MACHINE CO., Warren, Mass.
 (See adv. index, end of book)

Punches (Flue Shearing)

CLEVELAND PUNCH & SHEAR WORKS
 Co., 1306 E 40th, Cleveland, O. (See adv.
 below)
 Wiedeke, Gustav & Co. (With Spring Cen-
 ters), Dayton, O.

Punches for Beams

**BRAUN, J. G. & CO., 322 S. Paulina, Chi-
 cago, Ill., & 537 W 35th, New York, N. Y.**
 (See adv. index, end of book)
 Lewthwaite, T. H. (Power, Hand & Foot),
 413 E 31st, New York

*Punches for Ornamental Iron Work

**BRAUN, J. G. & CO., 322 S. Paulina, Chi-
 cago, Ill., & 537 W 35th, New York, N. Y.**
 (See adv. index, end of book)

*Punches for Scrolls

**BRAUN, J. G. & CO., 322 S. Paulina, Chi-
 cago, Ill., & 537 W 35th, New York, N. Y.**
 (See adv. index, end of book)

Punches (Gang)

(See Punching Machines, Multiple.)

Punches (Gasket)

Hendricks Mfg. Co. ("Victor"), Waynesboro,
 Pa.

Punches (Hand)

Akron Machine Co., Akron, O.
 American Lock Nut Co. ("Lightning Porta-
 ble"), Oregon, Ill.
ANDERSON FORGE & MACHINE CO.,
 271 Guoin, Detroit, Mich. (See adv. in-
 dex, end of book)
 Badger State Machine Co., Janesville, Wis.
 Bertsch & Co., Cambridge City, Ind.
 Buffalo Forge Co., Buffalo, N. Y., & 39 Cort-
 landt, N. Y.
 Excelsior Tool & Machine Co. ("Little Giant"
 Portable Lever), E. St. Louis, Ill.
 Fulton Iron Works ("Detroit-Rice" Hand Le-
 ver), 28 Brush, Detroit, Mich.
 Evansville Tool Works, Evansville, Ind.
HEARTLEY MACHINE, VARIETY
 Iron & Tool Works, Toledo, O. (See adv.
 on following page)
 Hilles & Jones Co., Wilmington, Del.
 Keene, Geo. C. & Co., 2327 Montgomery rd,
 Cincinnati, O.
 Kidder, J. F., Mfg. Co. ("Little Blacksmith"),
 Burlington, Vt.
 Kinsman Electric & Railway Supply Co. ("Mor-
 rello Hercules"), 55 Dey, New York

Lewthwaite, T. H., 413 E 31st, New York.
 Loyd, Jno. Co., 558 Water, N. Y.
MORRILL, CHAS. ("Morrill"), 277 B'way,
 New York. (See adv. index, end of book)
MOSSBERG, FRANK CO., Attleboro, Mass.
 (See adv. index, end of book)
 New Doty Mfg. Co., Janesville, Wis.
NIAGARA MACHINE & TOOL WKS.,
 Buffalo, N. Y. (See adv. index, end of book)
 Niles-Bement-Pond Co., 111 B'way, New York
 Novelty Iron Works (G. E. Davis, Prop.)
 ("Victor"), Dubuque, Iowa
PERKINS MACHINE CO. (Metal), Warren,
 Mass. (See adv. index, end of book)
 Queen City Punch & Shear Co., 208 Law-
 rence, Cincinnati, O.
 Richards, I. P. ("U. S." Standard Punches for
 Punching Iron & Steel), Providence, R. I.
 Rogers Mfg. Co. ("Little Giant"), 147 W 23d,
 New York
 Strait, H. N. Mfg. Co. (For Cooperage Mfrs.),
 Kansas City, Mo.
 Vaughn & Bushnell Mfg. ("V. & B."), 875
 W. Carroll av., Chicago, Ill.
WATSON-STILLMAN CO., 26 Cortlandt,
 New York. (See adv. index, end of book)
 Weiss, H. & Co. ("Hercules"), 20 Cliff, N. Y.

Punches (Hand & Tube Hole)

CLEVELAND PUNCH & SHEAR WORKS
 Co., 1306 E 40th, Cleveland, O. (See adv.
 below)

Hilles & Jones Co., Wilmington, Del.
 Long & Allstatter Co., Hamilton, O.
 New Doty Mfg. Co., Janesville, Wis.
 Wickes Bros., Saginaw, Mich.

Punches (Hog Ring)

Humason & Beckley Mfg. Co., New Britain,
 Conn.

Punches (Horizontal)

(See Punching Machines, Horizontal; also Ma-
 chinery, Punching & Shearing.)

Punches (Hydraulic)

(See Punching Machines, Hydraulic; also Ma-
 chinery, Punching & Shearing.)

Punches (Multiple)

(See Punching Machines; Multiple.)

Punches (Paper)

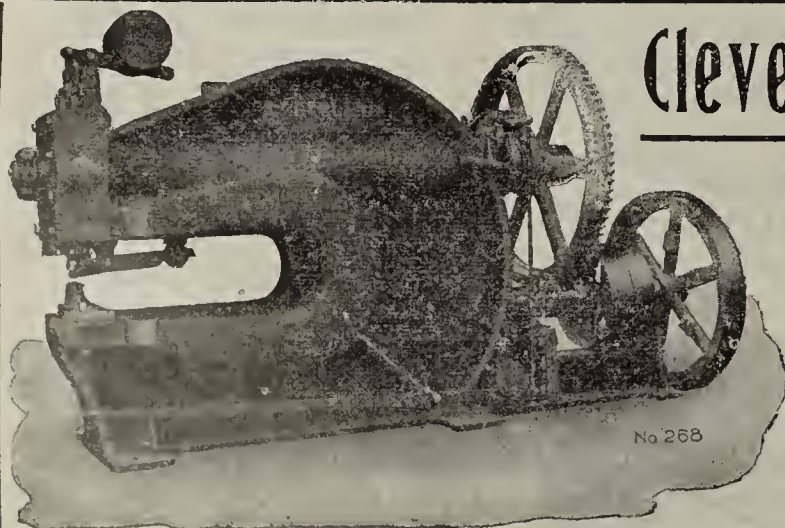
MORRILL, CHAS. ("Morrill"), 277 B'way,
 New York. (See adv. index, end of book)
 Tatum, Samuel C. Co. (Adjustable Office),
 Cincinnati, O.

Punches (Pin)

Tuck Mfg. Co., Brockton, Mass.

Punches (Pneumatic)

(See Pneumatic Punches.)



Cleveland Punches and Shears

BENDING ROLLS, STRAIGHTENING ROLLS,
 PLATE PLANERS, RADIAL DRILLS,
 ROTARY PLANERS, PUNCHES and DIES,
 Immediate Deliveries on Small Tools

Cleveland Punch & Shear Works Co.

1300 E. 40th, CLEVELAND, OHIO

Punches (Power)

(See Machinery, Punching & Shearing; also Shears, Various Kinds.)

Punches (Revolving)Johnson, Wm. (Hedenberg Works), Newark, N. J.
Kraeuter & Co., Newark, N. J.**Punches (Round or Saddlers')**

Johnson, Wm. (Hedenberg Works), Newark, N. J.

Punches (Saw)

Goodell-Pratt Co. ("Goodell"), Greenfield, Mass.

***Punches (Sheet Metal)**

MORRILL, CHAS. ("Morrill") up to 18 Gauge, 277 B'way, New York. (See adv. index, end of book)

Punches (Solid)

Tuck Mfg. Co., Brockton, Mass.

Punches (Spiral Shear)

(See Punching Machines, Spiral Shear)

Punches (Spring)Bonney Vise & Tool Works (Inc.) (Also Revolving Spring), 3015 Chestnut, Phila., Pa.
Johnson, Wm. (Hedenberg Works), Newark, N. J.
Meyers, Fred'k J. Mfg. Co., Hamilton, O.
Osborne, C. S. & Co., 96 Mechanic, Newark, N. J.
Smith & Egge Mfg. Co., Bridgeport, Conn., & 62 Reade, N. Y.
Springfield Machine Screw Co., Springfield, Mass.
Star Heel Plate Co. (Louis Sacks, Prop.), Hamburg pl & Ave. L, Newark, N. J.**Punches (Ticket)**

(See Punches, Conductors' Ticket.)

Punches (Tie Plate)

Pittsburg Tool & Drop Forge Co. ("Cheswick," for Driving Tie Plates), Works, Cheswick, Pa.

Punches (Track)ANDERSON FORGE & MACHINE CO., 271 Guoin, Detroit, Mich. (See adv. index, end of book)
Atha Tool Co. (Solid Cast Steel), Newark, N. J.
Beall Bros., Inc., Alton, Ill.
Evansville Tool Works, Evansville, Ind.
Hubbard & Co., Murland bldg, Pittsburg, Pa.
Iron City Tool Works (Ltd.), 32d & Smallman, Pittsburg, Pa.
Kalamazoo Railway Supply Co., Kalamazoo, Mich.Klein-Logan Co., S 13th & Breed, Pittsburg, Pa.
Solid Steel Tool & Forge Co. ("S. T. S."), Brackenridge, Pa.
Vaughn & Bushnell Mfg. Co. ("V. & B." Tool Steel, Oil Finished), 875 W Carroll av., Chicago, Ill.
Verona Tool Works, Verona, Pa., & Pittsburg, Pa.
Vicksburg, Mfg. Co., Vicksburg, Mich.
WATSON-STILLMAN CO. (Hydraulic), 26 Cortlandt, New York. (See adv. index, end of book)***Punches & Dies (Compound & Ship Yard)**

PERKINS MACHINE CO., Warren, Mass. (See adv. index, end of book)

Punching Machines (I Beam)

(See Machines, I Beam Punching.)

Punching & Shearing Machinery

(See Machinery, Punching & Shearing.)

Purifiers (Feed Water)

(See also Heaters, Feed Water)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)
Automatic Water Purifying Co., 45 B'way, New York
Bargawanath, Wm. & Son, 52 W Division, Chicago, Ill.
Bates Machine Co., Joliet, Ill.
Berry Engineering Co. ("Berry," "Monograph"), Chester, Pa.
Colles, E. G. T. & Co., 44 S. Clinton, Chicago
Davis, I. B. & Son, Hartford, Conn.
DODGE MFG. CO., Mishawaka, Ind. (See adv. index & branch offices, end of book)
Duquesne Mfg. Co. ("Gunning"), Pittsburg, Pa.
Erie Machine Shops ("Jackson"), Erie, Pa.
Flour Mill Machinery Co. ("Challenge"), Battle Creek, Mich.
Frost Mfg. Co., Galesburg, Ill.
Fulton Iron Works ("Llewellyn"), San Francisco, Cal.
Harrisburg Pipe & Pipe Bending Co., Harrisburg, Pa.
Harrison Safety Boiler Works, Phila., Pa.
Hayden Feed Water Purifier & Heater Co., Columbus, O.
Hoppe's Mfg. Co., Springfield, O.
Hubbard Mfg. Co., Caseville, Mich.
Jacobs, Chas. Co., 51 Oliver, Boston, Mass.
Jarvis Engine & Machine Works ("Monitor"), Lansing, Mich.
Just Mfg. Co., Odd Fellows Temple, Phila., Pa.
Koven, L. O. & Bro., 50 Cliff, N. Y.
Liberty Mfg. Co., Pittsburg, Pa.
McGowan, Jno. H. Co., Cincinnati, O.
Monitor Water Purifier Co., Lansing, Mich.
National Pipe Bending Co., New Haven, Conn.
National Steam Economizer Co., Norwich, Conn.
Patterson, D. W. ("Machman" System), Harrison bldg, Phila., Pa.
Patterson, Frank L. & Co., 26 Cortlandt
PETROLEUM IRON WORKS CO., Washington, Pa., & Farmers' Bank bldg, Pittsburg, Pa. (See adv. index, end of book)
Pittsburg Feed Water Heater & Engineering Co., Pittsburg, Pa.Platt Iron Works Co., Dayton, O., & 100 Broadway, New York
Ross Valve Co. ("Railton" "Campbell"), Troy, N. Y.
Stewart Heater Co., Buffalo, N. Y.
Ward & Upright Engineering Co., Brooklyn, N. Y.
Webster, Warren & So., Camden, N. J.
Whitlock Coil Pipe Co., Elmwood, Conn.
Wickes Bros., Saginaw, Mich.**Purifiers & Scrubbers (Gas)**

(For other Electrical Specialties, see Index of Contents)

Bartlett, Hayward & Co., Baltimore, Md.
Continental Iron Works, West & Cayler, Brooklyn, N. Y.
GRAVER, WM., Tank Works, East Chicago, Ind. (See adv. index, end of book)Isbell-Porter Co., 245 Broadway, N. Y.
Kerr-Murray Mfg. Co., Fort Wayne, Ind.
Lloyd Construction Co., Detroit, Mich.
Riter-Conley Mfg. Co., 59 Water, Pittsburg, Pa., & 111 B'way, New York
Wood, R. D. & Co., 400 Chestnut, Philadelphia, Pa.**Push Buttons**

(For Other Electrical Specialties, see Index of Contents.)

American Car & Ship Hdw. Mfg. Co., New Castle, Pa.
American Hard Rubber Co., 9 Mercer, N. Y.
Ansonia Electrical Co., Ansonia, Conn.
Boston Electric Co., 29 Harrison, Boston, Mass.
Builders' Supply Corp'n, 342 E Wash'n, Indianapolis, Ind.
Bunnell, J. H. & Co., 20 Park pl, New York
Chicago Glass Novelty Co., Marion, O.
Corbin, P. & F., New Britain, Conn., & 17 Murray, New York
Delaware Hard Fibre Co., Wilmington, Del.
Dickinson Mfg. Co. (Rubber & Elborine), Springfield, Mass.
Dixon, Fred'k W. (Wood), 92 Utica, Boston, Mass.
Electric Goods Mfg. Co., 115 Purchase, Boston, Mass.
Electrical Appliance Co., Waterbury, Conn.
Hart & Hegeman Mfg. Co., Hartford, Conn.
Herzog Teleseme Co., 51 W 24th, New York
Keil, Francis & Son, 667 E 163d, N. Y.
Mallory Wheeler Co., New Haven, Conn.
Manhattan Electrical Supply Co., 17 Park pl, New York
Moon Mfg. Co., 49 S Canal, Chicago, Ill.
Murdoch, W. J., & Co., Chelsea, Mass.
Novelty Electric Co., 50 N 4th, Phila., Pa.
Ostrander, W. R. & Co., 22 Dey, N. Y.
Patrick, Carter & Wilkins, 1231 Callowhill, Phila., Pa.
Penn Hardware Co., Reading, Pa.
Phelps & Sons Mfg. Co., 110 Pennington, Newark, N. J.
Proctor-Raymond Mfg. Co., Detroit, Mich.
Randall-Loudon Electrical Co., Memphis, Tenn.
Rauscher, Jno. (Wood), St. Paul, Minn.
Reading Hardware Co., Reading, Pa.
Riter-Conley Mfg. Co., Pittsburg, Pa., 111 B'way, New York City
Russell & Erwin Mfg. Co., New Britain, Conn.
Sargent & Co., New Haven, Conn., & 94 Center, N. Y.
Scranton Button Co., Scranton, Pa.**HEARTLEY MACHINE, VARIETY IRON AND TOOL WORKS**Manufacturer of
PATENT SPECIALTIES AND NOVELTIES.Designer and Builder of
MACHINES AND TOOLS FOR SPECIAL WORK.**PRESSES, PUNCHES, DIES, TOOLS AND SPECIAL MACHINERY**
FOR SHEET METAL STAMPING AND FORMING, ETC.**Bicycle and Metal Wheel Tools.**

Power and Hand Punching and Shearing Machinery, PUNCH & DIE FORGING and SPECIALTIES, &c.

EAVES TROUGH HANGERS, Seven Styles,
and Jobber of**EAVES TROUGH AND CONDUCTOR PIPE AND ELBOWS, &c.****GEORGE W. HEARTLEY, Prop.,**

900, 902, 904, 906, 908 Summit, corner Locust, TOLEDO, OHIO.



Spencer's, I. S. Sons, Guilford, Conn.
 Star Electric Co., Binghamton, N. Y.
 Starr Bros. Bell Co., East Hampton, Conn.
 Union Hardware Co. (Wood), Torrington, Conn.
 Viaduct Mfg. Co., 10 S Howard, Baltimore, Md.
 Walsh, Owen Mfg. Co., 21 Roosevelt, New York
 Warren, A. H. & Co., Bristol, Conn.
 Western Electric Co., 259 S Clinton, Chicago, & 57 Bethune, N. Y.
 Wilhelm, Henry, 70 Frost, Brooklyn, N. Y.

Pushers (Car)

(See Car Movers.)

Putty Mfrs.

Acme White Lead & Color Works, Detroit, Mich.
 Allentown Mfg. Co., Allentown, Pa.
 American Whiting & Putty Mfg. Co., 200 Water, N. Y.
 Baker, Wm. T. (Inc.), 228 Suydam, Jersey City, N. J.
 Belknap, E. S., McSherry & Moran Co., 5 Ainslie, Brooklyn, N. Y.
 Briggs, John & Co. ("Anchor"), 14 Wash'n, Boston, Mass.
 Butterworth, C. H. & Co., 125 Market, Phila., Pa.
 Chicago White Lead & Oil Co., Chicago, Ill.
 Chicago Wood Finishing Co., 259 Elston av, Chicago, Ill.
 Connors, Wm. Paint Mfg. Co. (American Seal White Lead), Troy, N. Y.
 Devoe, F. W. & C. T. Reynolds Co., 103 Fulton, N. Y., & Chicago, Ill.
 Dicks & Wiggim Co., Dayton, O.
 Felton, Sibley & Co., 136 N 4th, Phila., Pa.
FRENCH, SAMUEL H. & CO., 4th & Callowhill, Phila., Pa. (See adv. index, end of book)
 Fuller & Co., Hallowell, Me.
 Grote, Geo. W. & Co. (Stone), 432 E 102d, New York
 Harlem Roofing & Waterproofing Co., 553 East 116th st, New York, N. Y.
 Hoffman, J. W. Co., 436 Atlantic av, Boston, Mass.
 Kent & Purdy Paint Co., 701 N 2d, St. Louis, Mo.
 Lancaster Paint & Glass Co., Lancaster, Pa.
 Lucas, John & Co., 322 Race, Phila., Pa.
 Mark, Jacob Sons (Blue Putty), 7 Worth, N. Y.
 Phillips, John B. (Mfg. Co.), 80 9th, Brooklyn.
 Piqua Paint & Putty Co., Piqua, O.
RUTLAND FIRE CLAY CO., Rutland, Vt. (See adv. index & branch offices, end of book)
 Ullman & Philpott Mfg. Co., 95 Merwin, Cleveland, O.
 Wilhelm, A. Co., Reading, Pa.

Putty Mfrs. (Stovemakers')

Bowen's, S. Son ("Pecora"), 4th & Venango, Phila., Pa.
 Cleveland Stone Co., Hickox bldg, Cleveland, O.
 Colebrook, W. H. & Son, "Colebrook," 1419 Orange, Syracuse, N. Y.
 Connors, Wm. Paint Mfg. Co., 675 River, Troy, N. Y.
 Harlem Roofing & Waterproofing Co., 553 E 116th, New York, N. Y.

Putty Ornaments

(See Ornaments, Composition)

Putty Powder

Anderson Bros., Jamaica Plain, Boston, Mass., and Aberdeen, Scotland
 Doggett, Stanley, 101 Beekman, New York
HARRISON SUPPLY CO., 5 & 7 Dorchester av Extension, Boston, Mass. (See adv. index, end of book)
 Pittsburg Crushed Steel Co., Westinghouse bldg, Pittsburg, Pa.

Pyrites of Iron

Arminus Chemical Co., 56 Wall, New York

Pyrographic Needles

Postley, A. J., 130 W. 116th, New York
 Solar Pyro. Mfg. Co., 244 W 23d, New York
 Wiseman Mfg. Co., 140 W 23d, New York

Pyrometers

American Steam Gauge & Valve Mfg. Co., Boston, Mass.
ASHCROFT MFG. CO., THE, 85, 87 & 89 Liberty, New York. Works, Bridgeport, Conn. (See adv. index & branch offices, end of book)
 Ashton Valve Co., 271 Franklin, Boston, Mass.; Bristol, Wm. H., 45 Vesey, New York
 Brown, Edward & Son (All Kinds), 313 Walnut, Phila., Pa.
 Central Laboratory Supply Co. ("Vawter" Recording), La Fayette, Ind.
CROSBY STEAM GAGE & VALVE Co., 97 Oliver, Boston, Mass., 16 Dey, New York. (See adv. index & branch offices, end of book)
 Dixon, H. L. Co. ("Price's" Perfect), 8 Wood, Pittsburg, Pa.
 Du Vivier, Ernest H., "Imported," 16 Church, N. Y. City.
 Elmer & Amend, 18th & 3d av, New York.
 Englehardt, Charles (Imported "Heralus Le Chatelier"), 41 Cortlandt, New York
 Hobmann & Maurer Mfg. Co., Rochester, N. Y.
 Klemm, Henry, 2674 N 42d av, Chicago, Ill.
 Manufacturers' Foundry Co., Waterbury, Conn.
 Marsh, Jas. P. & Co., 224 Washington, Chicago, Ill.
 Morse Thermo Gage Co. (Optical Pyrometers), Trumansburg, N. Y.
 Pelton & Crane, Detroit, Mich.
QUEEN & CO. (Ltd.), N. W. Cor. 8th & Arch, Phila. Pa. (See adv. index, end of book)
SCHAEFFER & BUDENBERG MFG. Co., Foxboro, Mass. (See adv. index & branch offices, end of book)
STANDARD GAUGE MFG. CO., Syracuse, N. Y. (See adv. index & branch offices, end of book)
 Tagliabue, Chas. J. Mfg. Co., 53 Fulton, New York
 Thwing, C. B. (Electrical), Heed bldg., Phila., Pa.
 Uehling-Decker Co. (for Blast & Annealing Furnaces, etc.), Passaic, N. J.
 Uehling Instrument Co. (Pneumatic Recording), Passaic, N. J.
 Watertown Thermometer Co., Watertown, N. Y.
 Weiskopf, Abraham, 69 S Canal, Chicago, Ill.
 Wilson-Maenlen Co. (Imported), 110 Liberty, New York
 Zaubitz, August (Up to 3000 Degrees Fahr.), 48 Centre, N. Y.

*Pyrometers (Recording)

BRISTOL CO., Waterbury, Conn. (See adv. index & branch offices, end of book)

Quarries

See Cement Mfrs.
 Granite Producers, etc.
 Lime Mfrs.
 Marble Producers.
 Roofing Slate Mfrs.
 Stone Producers.

Quarry Hoists & Machinery

(See Hoist of Various Kinds. Cranes of Various Kinds, Drills, Rock, Derricks, Engines, Hoisting, etc.)

Quartermaster's Department, U. S. Army

(Officers of Quartermaster's Department, U. S. Army, who have charge of construction work.)
 Lieut.-Col. Fred'k G. Hodgson, Phila., Pa.
 Lieut.-Col. George Ruhlen, Washington, D. C.
 Major Joseph T. Crabbs, Washington, D. C.
 Major Thomas Cruse, Omaha, Neb.
 Major Thomas H. Slavens, Washington, D. C.
 Major R. B. Turner, Boise, Idaho
 Capt. Chas. C. Ballou, Fort Niagara, N. Y.
 Capt. Ola W. Bell, Jefferson Barracks, Mo.
 Capt. H. D. Berkeley, Fort Oglethorpe, Ga.
 Capt. Harry G. Bishop, Fort Stevens, Ore.
 Capt. J. J. Boniface, Fort Assiniboine, Mont.
 Capt. Albert S. Brooks, Fort Douglas, Utah
 Capt. Geo. C. Burnell, Fort Wood, Bedloes Island, N. Y.
 Capt. Jos. C. Castner, Fort Thomas, Ky.
 Capt. Harry B. Chamberlin, Columbus Barracks, Ohio
 Capt. B. F. Cheatham, San Francisco, Cal.
 Capt. Bertram T. Clayton, New Orleans, La.

Capt. Wm. E. Cole, Fort Des Moines, Iowa
 Capt. Edgar T. Collins, Fort Wm. Henry Harrison, Mont.
 Capt. G. Maury Cralle, Fort William H. Seward, Alaska
 Capt. Wm. M. Cruikshank, Forts Howard, Armistead, Carroll & McHenry, Md.
 Capt. Jos. T. Davidson, Fort Screven, Ga.
 Capt. Wm. D. Davis, Sheridan, Wyo.
 Capt. Clarence R. Day, Fort Huachuca, Ariz.
 Capt. Moor N. Falls, Governors Island, N. Y.
 Capt. Henry B. Farrar, Fort Du Pont, Del.
 Capt. Lawrence J. Fleming, Fort Sam Houston, Texas
 Capt. Chas. G. French, Fort Wayne, Mich.
 Capt. Louis F. Garrard, Jr., Mobile, Ala.
 Capt. George L. Goodale, Boston, Mass.
 Capt. Peter C. Hains, Jr., Fort Hamilton, N. Y.
 Capt. Verling K. Hart, Cheyenne, Wyo.
 Capt. Harold P. Howard, Fort Walla Walla, Wash.
 Capt. Evan H. Humphrey, Honolulu, Hawaii
 Capt. Clyde D. V. Hunt, San Diego, Cal.
 Capt. B. B. Hyer, Fort Myer, Va.
 Capt. Robert H. Kelton, Fort Monroe, Va.
 Capt. Amos W. Kimball, St. Paul, Minn.
 Capt. Chas. H. Martin, Vancouver Barracks, Wash.
 Capt. L. S. Miller, Fort Barrancas, Fla.
 Capt. Jas. E. Normoyle, Fort Leavenworth, Kans.
 Capt. Geo. H. Penrose, Fort Benjamin Harrison, Ind.
 Capt. F. W. Phisterer, Fort Columbia, Wash.
 Capt. Hiram McL. Powell, Fort Bliss, Tex.
 Capt. Leon S. Roudiez, Fort Robinson, Neb.
 Capt. John S. Sewell, Washington Barracks, D. C.
 Capt. Edward A. Shuttleworth, Fort Wright, Wash.
 Capt. Ralph R. Stogsdall, Fort Crook, Neb.
 Capt. Ernest R. Tilton, Fort Totten, N. Y.
 Capt. Chas. C. Walcutt, Jr., Prescott, Ariz.
 Capt. Wm. Weigel, Fort Sheridan, Ill.
 Capt. Walter M. Whitman, Fort Riley, Kans.
 Capt. W. T. Wilder, Fort Slocum, N. Y.
 Lieut. John C. Ashburn, Plattsburg Barracks, N. Y.
 Lieut. Michael H. Barry, Fort Dade, Fla.
 Lieut. David H. Biddle, Fort Meade, South Dak.
 Lieut. Earl Biscoe, Fort Hunt, Va.
 Lieut. A. T. Bishop, Fort De Soto, Fla.
 Lieut. W. A. Blain, Fort Ontario, N. Y.
 Lieut. James Blyth, Fort McIntosh, Tex.
 Lieut. Arthur L. Bryant, Fort Du Pont, Del.
 Lieut. Chas. C. Burt, Fort Worden, Wash.
 Lieut. Bowers Davis, Fort Lincoln, N. Dak.
 Lieut. J. C. Fairfax, Fort Logan, Colo.
 Lieut. Wm. R. Harrison, Fort Caswell, N. C.
 Lieut. Ralph E. Herring, Fort Washington, Md.
 Lieut. Milton G. Holliday, Fort Ethan Allen, Vt.
 Lieut. W. E. Holliday, Fort McPherson, Ga.
 Lieut. Henry S. Kilbourne, Fort Rodman, Mass.
 Lieut. John McBride, Fort McKinley, Me.
 Lieut. William H. Menges, Key West Barracks, Fla.

Lieut. Willis C. Metcalf, Fort Adams, R. I.
 Lieut. William N. Michel, Fort Moultrie, S. C.
 Lieut. H. G. Miller, Fort Flagler, Wash.
 Lieut. Geo. L. Morrison, Fort Wingate, N. Mex.
 Lieut. Jos. E. Myers, Fort Michie, N. Y.
 Lieut. John M. Page, Fort Greble, R. I.
 Lieut. Wm. Paterson, Fort Hancock, N. J.
 Lieut. John S. Pratt, Fort Mansfield, R. I.
 Lieut. Granville Sevier, Fort Casey, Wash.
 Lieut. John P. Spurr, Fort Terry, N. Y.
 Lieut. D. W. Strong, Fort Brady, Mich.
 Lieut. Geo. H. Terrell, Fort H. G. Wright, N. Y.

Lieut. Matthew H. Thomlinson, Alcatraz Island, Cal.
 Lieut. Robert L. Weeks, Fort Logan H. Roots, Ark.
 Lieut. Chas. D. Winu, Fort Preble, Me.
 Lieut. Robert F. Woods, Fort Williams, Me.
 Lieut. A. J. Woude, Fort Keogh, Mont.

Quicksilver Producers

Colonial Mining Co., Ashland blk., Chicago, Ill. Mines, Quartzsite, Ariz.

Racks (Automobile Baggage)

Smith, Chas. A. (P. & S.), Germantown, Phila., Pa.

Racks (Baggage)

Adams & Westlake Co., Ontario, c N Franklin, Chicago, Ill.
 Rostand Mfg. Co., New Haven, Conn.

Racks (Bicycle)

Bramer, A. & D., Boston, Mass.
Gould Co., 24 N Canal, Chicago, Ill.
Gregory, Gilles R., Norfolk, O.
Union Mfg. Co., Toledo, O.

Racks (Cable)

Cope, T. J. (For Manholes, Tunnels, etc.).
3244 N 15th, Phila., Pa.

Racks (Cut)

Bair & Gazzam Mfg. Co., 29th & Smallman
Pittsburg, Pa.
BROWN, A. & F. CO., 25 Dey, New
York. Works, Elizabethport, N. Y. (See
adv. index, end of book)
DAVIS, RODNEY, 626 Race, Phila.,
Pa. (See adv. index, end of book)
FAWCUS MACHINE CO., 2820 Small-
man, Pittsburg, Pa. (See adv. index, end
of book)
Fellows Gear Shaper Co., Springfield, Vt.
Gould & Eberhardt, Newark, N. J.
MINNEAPOLIS STEEL & MACHIN-
ery Co., Minneapolis, Minn. (See adv.
index & branch offices, end of book)
NUTTALL, R. D. CO. (Machine Cut),
Pittsburg, Pa. (See adv. index, end of
book)
PHILADELPHIA GEAR WORKS
Inc., (Brass, etc.), 7th & Cherry, Phila.,
Pa. (See adv. index, end of book)
Simonds Mfg. Co., Pittsburg, Pa.
STANDARD GAUGE STEEL CO. (Fin-
ished), Beaver Falls, Pa. (See adv. index,
end of book)
Walcott, Geo. D. & Son, Jackson, Mich.

***Racks (Folding, Hat & Coat)**

NARRAGANSETT MACHINE CO., Provi-
dence, R. I. (See adv. index, end of book)

Racks for Cold Storage Rooms

Market Forge Co. (Galvanized Iron Co.),
Barrett & Fulton, Boston, Mass.
Ohio Ceramic Engineering Co. (Steel), Cleve-
land, O.

Racks (Hat, Coat & Towel)

Arcade Mfg. Co., Freeport, Conn.
Cassady-Fairbanks Mfg. Co., 6106 La Salle,
Chicago, Ill.
Landers, Frary & Clark (Towel Racks, Pol-
ished, Solid Brass), New Britain, Conn.
Linton W. H. Co. (Three Arm Towel Racks),
Ogdensburg, N. Y.
Lloyd Mfg. Co. (Wire Towel), Minneapolis,
Minn.
McKenna Bros. Brass Co., Pittsburg, Pa.
Montrose, R. W. (Wood, Hat & Coat), Galien,
Parks & Parks, Troy, N. Y. Mich.
Waterbury Brass Goods Corporation, Waterbury,
Conn.
Wire Goods Co. ("Ideal" Towel Rack),
Worcester, Mass.

Racks (Insulated)

Fletcher Mfg. Co. ("Fletcher"), Dayton, O.

***Racks (Machine)**

STANDARD GAUGE STEEL CO. (Fin-
ished Cut Steel), Beaver Falls, Pa. (See
adv. index, end of book)

***Racks (Mining Machine)**

NUTTALL, R. D. CO., Fayette & Gar-
rison pl, Pittsburg, Pa. (See adv. index,
end of book)

Racks (Oven)

Union Steel Screen Co. (Ltd.), Albion, Mich.

***Racks (Portable Forge)**

LYON METALLIC MFG. CO., Aurora,
Ill. (See adv. index, end of book)

Racks (Postal Bag)

Harrison Postal Bag Rack Co., Fond-du-Lac,
Wis.

Racks (Tool)

Avery-Caldwell Mfg. Co. (Steel), Bellaire, O.
Cleveland Wire Spring Co. (Sheet Metal),
Cleveland, O.
LYON METALLIC MFG. CO., Aurora,
Ill. (See adv. index, end of book)
Mfg. Equipment & Engr. Co., 229 Marginal,
E. Boston, Mass.
Massey Machine Co., Watertown, N. Y.
New Britain Machine Co., New Britain, Conn.
WILSON, F. CORTEZ & CO., 239 Lake,
Chicago, Ill. (See adv. index, end of book.)

Racks (Towel)

Browne & Dowd Mfg. Co., Meriden, Conn.
Franklin Specialty Co. ("New Imperial" Rol-
ler Nickel Plated), Reading, Pa.
Hawes, Jas. H. Mfg. Co., Towanda, Pa.
Phillips, A. J., Co., Fenton, Mich.

Racks (Wine Bottle)

Bataille, Achille & Co., 587 Hudson, New York

Radiator (Bronze)

(See Bronze Powders.)

Radiator Dust Catchers

Hawkins, Rollyn Co., 326 E. Market, Indian-
apolis, Ind.

***Radiator Union Nipple Clutch**

SIMMONS, JNO. CO. ("Benton" for
Radiator Valves), 106 Centre, New York,
N. Y. (See adv. index, end of book)

Radiator Enamels

(See Enamels, Radiator.)

Radiator Screens (Ornamental)

Hecla Iron Works, 118 N 11th, Brooklyn, N. Y.

Radiator Shields

ANDREWS & JOHNSON CO., 256 Wash'n
boul, Chicago, Ill. (See adv. index, end
of book.)

BUFFALO WIRE WORKS CO., 316 Ter-
race, Buffalo, N. Y. (See adv. index, end
of book.)

Decatur Cornice & Roofing Co. ("Perfect"),
Decatur, Ill.

ESTEY WIRE WORKS CO., 59 Fulton, New
York. (See index, end of book.)

Hawkins, Rollyn Co., Indianapolis, Ind.
Hecla Iron Works, 118 N 11th, Brooklyn, N. Y.

Howard & Morse, 45 Fulton, New York.
Lyon Metallic Mfg. Co., Aurora, Ill.
Monash-Younger Co. ("Dixon" & "Monash"),
203 S. Canal, Chicago, Ill.
Prentice, L. H. Co., 34 Sherman, Chicago.
Rutherford, J., & Son ("Star"), Akron, O.
WILSON, F. CORTEZ & CO., 239 Lake,
Chicago, Ill. (See adv. index, end of
book.)
WISCONSIN IRON & WIRE WORKS, Mil-
waukee, Wis. (See adv. index, end of
book.)

Radiator Valves

(See Valves, Radiator.)

Radiators (Electric Car)

(See Heaters, Electric Car.)

Radiators (Gas)

American Beauty Gas Stove Works ("Amer-
ican Beauty"), Erie, Pa.
American Stove Co. ("Reliable"), 414 N. 6th,
St. Louis, Mo.
Clark, Geo. M. & Co., 72 Lake, Chicago, Ill.
Crane, Wm. M. Co., 1131 B'way, New York
Criterion Gas Stove Mfg. Co., 447 Greenwich,
N. Y.
Dangler Stove & Mfg. Co., Cleveland, O.
Detroit Heating & Lighting Co., Wright, nr
Leib, Detroit, Mich.
Gilbert & Barker Mfg. Co., Springfield, Mass.
Kahn, F. & L. & Bros., Hamilton, O.
Milwaukee Gas Stove Co., 139 Burdell, Mil-
waukee, Wis.
New York Gas Stove Works, 243 Water, New
York
Ringen Stove Co., St. Louis, Mo.
Southard-Robertson Co., 257 Water, N. Y.
Union Stove Works, 70 Beekman, N. Y.
Weiskittle, A. & Son, Aliceanna & Wash'n.
Baltimore, Md.

Radiators (Hot Water & Steam)

AMERICAN RADIATOR CO., Gen-
eral Office, 282 Michigan av, Chicago, Ill.
(See adv. index & branch offices, end of book)
Backus Co. (Portable, Steam, for Gaseous
Fuel), Brandon, Vt.

Buffalo Radiator Co., Buffalo, N. Y.
Central Radiator Co., 116 Nassau, New York.
Works: Lansdale, Pa.

Fowler & Wolfe Mfg. Co. (Wall Radiators),
Phila. Bourse, Philadelphia, Pa.
Fuller-Warren Co. ("Regina," "Fowler &
Wolfe" & "Regal"), Milwaukee, Wis., &
86 Lake, Chicago, Ill.

Gibson Iron Works ("Exeter"), Gibson City,
Ill.

Griffing, A. A. Iron Co. ("Ajax," "Bundy,"
"Columbia," "Elite" & "Empire"), Jer-
sey City, N. J.

Gurney Heater Mfg. Co. ("Narrow" &
"Duet"), 188 Franklin, Boston, Mass.

Holland Radiator Co. ("Calor," "Bremen,"
"Eclipse," "Reliance" & "Unique"), 38
Dearborn, Chicago, Ill.

Hopson & Chapin Mfg. Co. (Hot Water), New
London, Conn.

Jarecki Mfg. Co. ("Erie"), Erie & Pittsburg,
Pa.

KELLOGG - MACKAY - CAMERON CO.
("Acme," "Corinth," "Kewanee" & "Fed-
eral Window"), Michigan av & 12th, Chic-
ago, Ill. (See adv. below; branch offices,
end of book)

KEWANEE BOILER CO., Kewanee, Ill., &
169 E. Lake, Chicago, Ill. (See adv. in-
dex, end of book.)

Leighton Foundry & Machine Co., Leighton,
Pa.

RADIATORS FOR STEAM AND HOT WATER HEATING

"Kewanee", "Acme", "Corinth", "Federal Window" patterns in straight, round, circular, corner or
any shape to fit any space and with any desired amount of heating surface. Write for catalogs.

MINNEAPOLIS SEATTLE
KANSAS CITY

Kellogg-Mackay-Cameron Co.

CHICAGO

BOILERS, RADIATORS, HEATING AND PLUMBING SUPPLIES

McCrum-Howell Co., 46 E. 20th, New York.
 McLain, J. H. Co. ("Seneca"), Canton, O.
 Maish Mfg. Co. ("Empire"), Warsaw, Ind.
 Mott, J. L. Iron Works ("Star," "Utility" & "Roman"), 118 5th ave., New York.
 Nason Mfg. Co. (High Pressure Steam only), 71 Beekman, N. Y.
 National Radiator Co. ("Monarch," "Solus" & "Universal"), Johnstown, Pa.
 New York Radiator Co., Utica, N. Y.
 Novelty Iron Co., Canton, O.
 Page, W. H. Boiler Co. ("Exeter," "Beacon," "Puritan," "Regal" & "Triad"), Norwich, Conn.
 Phila. Hardware & Malleable Iron Works, Ins. ("Keystone"), 9th & Jeff'n, Phila., Pa.
 Pierce, Butler & Pierce Mfg. Co. ("Bremen," "Lorraine," "Reliance" & "Syracuse"), Syracuse, N. Y.
PRESSED RADIATOR CO., THE, Pittsburgh, Pa. (See adv. index, end of book)
 Reynolds Heater Co., Warsaw, Ind.
 Reading Radiator Co. ("Ducol," "Tricol" & "Tropic"), Reading, Pa.
 Shirley Radiator & Foundry Co., Indianapolis, Ind. Works, Shirley, Ind.
 Smith, H. B. Co. ("Coronet," "Crown," "Champion Union," "Imperial Union," "Royal Union," "Sovereign Union," "Union," "Reed," "Whittier," "Gold Pin," "School Pin" & "Utica Pin"), 133 Centre, New York.
 Sodemann Heat & Power Co. ("Ringer" & "Louis XIV"), 412 N. 6th, St. Louis, Mo.
 South Park Foundry & Machine Co. ("Rising Sun"), St. Paul, Minn.
 U. S. Radiator & Boiler Co. ("Sun," "Crown," "Ornate," "Solar" & "Star"), Pittsburgh, Pa.
 U. S. Radiator Co. ("Chautauqua" & "Triton"), Dunkirk, N. Y., & Fuller bldg., New York.
 Utica Heater Co., Utica, N. Y.
 Walker & Pratt Mfg. Co., 33 Union, Boston, Mass.
 Walworth Mfg. Co., 132 Federal, Boston, Mass.
 Webster City Steel Radiator Co., Webster City, Ia.
 Western Tube Co. (Standard Staggered Tube Circular Coil, etc.), Kewanee, Ill.
 Williamsport Radiator Co., Williamsport, Pa.

Radiators (Sheet Metal)

PRESSED RADIATOR CO., THE (for Steam & Hot Water), Bailey-Farrell bldg, Pittsburgh, Pa. (See adv. index, end of book)

Radiators (Stove Pipe)

Barber Mfg. Co., Ashtabula, O.
 Enterprise Foundry Co., 48 Olean, Rochester, N. Y.
 Rochester Radiator Co., 268 State, Rochester, N. Y.
 Ross Radiator Co. ("Ross" Smokepipe), Newburgh, N. Y.

Radiators (Water Cooling)

American Auto Brass Co., Columbus, O.
 A. Z. Co., 462 11th av, New York
 Bliss-Chester Co., 31 Mathewson, Providence, R. I.
 Borbein, H. F. & Co., 2109 N. 9th, St. Louis, Mo.
 Brennan Motor Co., 101 Grape, Syracuse, N. Y.
 Briscoe Mfg. Co., 1427 Woodward av, Detroit, Mich.
 Burn, W. S. Mfg. Co., New Haven, Conn.
 Detroit Auto Specialty Co., 12 Sherman, Detroit, Mich.
 Fedders Mfg. Works, 1590 Genesee, Buffalo, N. Y.
 Hayes Mfg. Co., Detroit, Mich.
 Hussey Drop Forge Mfg. Co., Cleveland, O.
 Janney, Steinmetz & Co., 4th & Market, Phila., Pa.
 Kells, W. N. Mfg. Co., 62 Van Winkle, Jersey City, N. J.
 Kinsey Mfg. Co. ("Kinwood"), Dayton, Ohio
 Long Mfg. Co., 381 Wabash av, Chicago, Ill.
 Long-Turney Mfg. Co., Rome, N. Y.
 Mayo Radiator Co., New Haven, Conn.
 Rands Mfg. Co., 55 Macomb, Detroit, Mich.
 Springfield Metal Body Co., Springfield, Mass.
 Stolp Mfg. Co., cor Huron & Townsend, Chicago, Ill.
 Tragesser, John, Steam Copper Works, 447 W 26th, N. Y.
 Whitlock Coil Pipe Co., Hartford, Conn.

Radius Planer Attachments

Underwood, H. B. & Co., 1023 Hamilton, Phila., Pa.
 Quincy-Manchester-Sargent Co. (Link), Old Colony bldg, Chicago, Ill. and 114 Liberty, New York

Rail Benders

(See also Rail Bending & Straightening Machines in Machinery.)

ANDERSON, W. H. TOOL & SUPPLY CO., 14 Macomb, Detroit, Mich. (See adv. index, end of book.)
 Buda Foundry & Mfg. Co. ("Buda," "Jim Crow" & Roller Rail Bender), Railway Exchange bldg, Chicago, Ill. Works, Harvey, Ill.
 Fall River Machine Co., Fall River, Mass.
FAIRBANKS, MORSE & CO. (Automatic or "Jim Crow"), Franklin & Monroe, Chicago, Ill. (See adv. index & branch offices, end of book)
 Flather, Mark Planer Co., Nashua, N. H.
 Fox Bros. Co. (The Jim Crow & Lever), 126 Lafayette, New York.
 Hardeoeg Martin Co. ("Imperial" for Mine Rails), Pittsburgh, Pa.
 Hubbard & Co., Pittsburgh, Pa.
 Irving Mfg. & Tool Co. (J. F. McCoy Co., Prop.), 159 Chambers, New York.
 Kalamazoo Railway Supply Co., Kalamazoo, Mich.
 Lovejoy Tool Works, 90 Ohio, Chicago, Ill.
 Niles Mine & Mill Supply Co., Cleveland, O., & Niles, O.
 Pettibone, Mulliken & Co. (Roller), 204 Dearborn, Chicago, Ill.
 Pittsburgh Gage & Supply Co. (Jim Crow), Pittsburgh, Pa.
 Pittsburgh Tool & Drop Forge Co., Cheswick, Pa.
 Quincy-Manchester-Sargent Co. ("Q. & C.," "Samson," Portable), Old Colony bldg, Chicago, Ill., and 114 Liberty, New York
 Secor, A. W. ("Jim Crow"), 65 Fulton, New York.
 Stine, S. B. & Son (Plain & Ratchet), Osceola Mills, Pa.
 Turner, John T. (The "Williston"), Lowell, Mass.
 Verona Tool Works (The "Manning," eccentric, etc.), Verona, Pa., & Pittsburgh, Pa.
 Vicksburg Mfg. Co., Vicksburg, Mich.
 Wallace Supply Co. ("Jim Crow," for Light Rails, Pipe, etc.), 56 5th av, Chicago, Ill.
 Zelnicker, Walter A. Supply Co. ("Zelnicker"), 408 N 4th, St. Louis, Mo.

Rail Bond Testers

(See Instruments, Electrical Testing & Measuring.)

Rail Bonds

AMERICAN STEEL & WIRE CO., (The "United States," "Crown" Solid, Flexible Copper), The Rookery, Chicago. (See adv. index and branch offices, end of book)
 Anderson, Albert & J. M. Mfg. Co., 287 A, South Boston, Boston, Mass.
 Brown, Harold P. (Edison-Brown Plastic), 120 Liberty, New York
CHASE-SHAWMUT CO. ("Shawmut" Soldered Flexible), Newburyport, Mass. (See adv. index, end of book.)
 Clark Electric & Mfg. Co. ("Clark" Soldered), 135 Broadway, New York.
 Cleveland Brass & Bronze Works ("Barrett"), 1138 Hamilton, Cleveland, O.
 Electric Cable Co. (Soldered Mesh), Bridgeport, Conn.
 Electric Railway Improvement Co. (Electrically Welded), Cleveland, O.
 Electric Service Supplies Co., 1024 Filbert, Philadelphia, Pa.
 Eureka Tempered Copper Works ("The Eureka"), North East, Pa.
 Falk Company, ft. 30th, Milwaukee, Wis.
GENERAL ELECTRIC CO., Schenectady, N. Y., & 44 Broad, New York. (See adv. index & branch offices, end of book)
 Harrington, S. H., 120 Liberty, New York
 Johns, H. W.-Manville Co., 100 William, New York
 Lorain Steel Co., Pennsylvania bldg, Phila., Pa.
 Lord Electric Co. ("Thomas" Soldered), 949 Broadway, New York.
 New York Electrical Works (Duplex), 515 Kent av, Brooklyn, N. Y.
 Ohio Brass Co., Mansfield, O.

Peterson, Jno. L. & Co. (The Hunder), Galesburg, Ill.
 Protected Rail Bond Co., 1024 Filbert, Phila., Pa.
ROEBLING'S, JOHN A. SONS CO., of N. Y., Trenton, N. J.; 117 Liberty, New York. (See adv. index & branch offices, end of book.)
 Waterbury Brass Goods Corporation, Waterbury, Conn.
WESTINGHOUSE ELECTRIC & MFG. Co., Pittsburgh, Pa. (See adv. index & branch offices, end of book.)
 Worcester Steel Foundry Co., Millbury, Mass.

Rail Braces & Fastenings

Ajax Forge Co., 138 Jackson boul, Chicago
 Alabama Frog & Switch Co., Anniston, Ala.
 Allentown Rolling Mills, Allentown, Pa.
 American Frog & Switch Co., Hamilton, O.
 Ames, W. & Co., Jersey City, N. J.
 Atlas Railway Supply Co., Manhattan bldg, Chicago
 Beaver Dam Malleable Iron Co., Beaver Dam, Wis.
 Buda Foundry & Mfg. Co., Railway Exchange bldg, Chicago, Ill. Works, Harvey, Ill.
 Cambria Steel Co., Johnstown, Pa.
 Carnegie Steel Co., General Offices, Pittsburgh, Pa.
CHISHOLM & MOORE MFG. CO., (Malleable Iron), Cleveland, O. (See adv. index, end of book)
 Colorado Fuel & Iron Co., Denver, Col.
 Dayton Malleable Iron Co., Dayton, O.
 Dilworth, Porter & Co. (The Goldie), Pittsburgh, Pa.
 Elliott Frog & Switch Co., East St. Louis, Ill.
 Illinois Steel Co., Rookery bldg, Chicago, Ill.
INDIANAPOLIS SWITCH & FROG CO., Springfield, O.
 Kinsley Iron & Machine, Canton, Mass.
 Knoxville Iron Co., Knoxville, Tenn.
 McConway & Torley Co., 48th & A. V. Ry., Pittsburgh, Pa.
 Morden Frog & Crossing Works, The Rookery, Chicago
 Morris, Herbert, Betz bldg, Philadelphia, Pa.
 National Railway Materials Co., 90 West, New York
 New York Switch & Crossing Co., Hoboken, N. J.
 Norway Iron & Steel Co., York, Pa.
 Penna. Steel Co., Girard bldg, Phila., Pa.
 Pettibone, Mulliken & Co. ("Akins" Forged Steel), 204 Dearborn, Chicago, Ill.
 Pittsburgh Forge & Iron Co., 1003 Penna. av., Pittsburgh, Pa.
 Portland Iron & Steel Co., Portland, Me.
 Quincy-Manchester-Sargent Co. ("American" Guard Rail Fasteners), Old Colony bldg, Chicago, Ill. and 114 Liberty, New York
 Rail Joint Co., 29 W 34th, New York
 Ramapo Iron Works, Hilburn, N. Y., & Niagara Falls, N. Y.
 Reading Iron Co., Reading, Pa.
 Republic Iron & Steel Co., Frick bldg, Annex Pittsburgh, Pa.
 Ruffner & Son, Falls of Schuylkill, Philadelphia, Pa.
 Sellers Mfg. Co., 27 W Chicago av, Chicago
 Tredegar Co., Richmond, Va.
 Union Drop Forge Co., 66 E Ohio, Chicago, Ill.
UNION SWITCH & SIGNAL CO., THE, Swissville, Pa.; 143 Liberty, New York, & Monadnock blk, Chicago, Ill.
 Weir Frog Co., Cincinnati, O.
 Wilmington Malleable Iron Co., Taylor c Locust, Wilmington, Del.

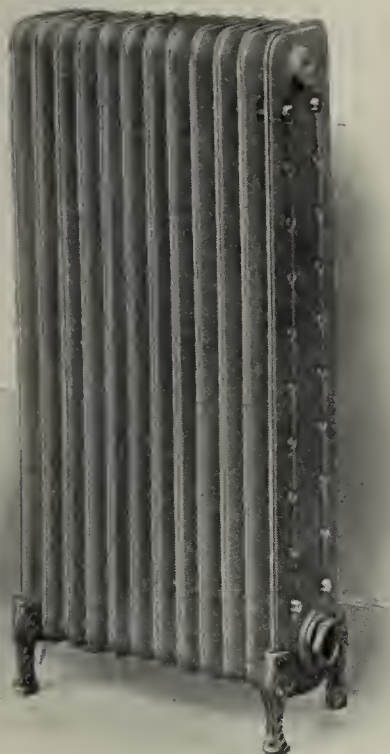
Rail Buck Staves

Baumgarten, A. F. & Bro., Farmers' B'k bldg, Pittsburgh, Pa.

Rail Joints

Atlas Railway Supply Co. (For Tee or Girder Rails), Manhattan bldg, Chicago
 American Washer & Mfg. Co. ("The D. O. Ward"), Newark, N. J., & 263 Dearborn, Chicago
 Bonzano Rail Joint Co., 22 S 15th, Phila., Pa.
 Buda Foundry & Mfg. Co., Railway Exchange bldg, Chicago, Ill.
 Carnegie Steel Co. ("Duquesne"), Pittsburgh, Pa.
 Colorado Fuel & Iron Co., Denver, Colo.
FAIRBANKS, MORSE & CO., Franklin & Monroe, Chicago, Ill. (See adv. index & branch offices, end of book)
 Falk Co. (Cast Welded), ft of 30th, Milwaukee, Wis.
 Fisher & Norris (The Fisher) (Clark Fisher, Prop.), Fair & Factory, Trenton, N. J.
 Heil Co. (Cast Welded), Milwaukee, Wis.

Model H.—Three Column Radiator
Steam or Water—Floor or Wall



KINNEAR PRESSED RADIATORS

LIST OF HEATING SURFACES SQUARE FEET

| No. of Sections | *Length $1\frac{1}{2}$ in. per Section | 38 in. High | 32 in. High | 26 in. High | 20 in. High | 14 in. High |
|-----------------|---|-----------------------|------------------------------------|------------------------------------|-----------------------|------------------------------------|
| | | 4 Sq. Ft. per Section | $3\frac{1}{3}$ Sq. Ft. per Section | $2\frac{1}{2}$ Sq. Ft. per Section | 2 Sq. Ft. per Section | $1\frac{1}{3}$ Sq. Ft. per Section |
| 3 | $4\frac{1}{2}$ | 12 | 10 | $7\frac{1}{2}$ | 6 | 4 |
| 4 | 6 | 16 | $13\frac{1}{3}$ | 10 | 8 | $5\frac{1}{3}$ |
| 5 | $7\frac{1}{2}$ | 20 | $16\frac{2}{3}$ | $12\frac{1}{2}$ | 10 | $6\frac{2}{3}$ |
| 6 | 9 | 24 | 20 | 15 | 12 | 8 |
| 7 | $10\frac{1}{2}$ | 28 | $23\frac{1}{3}$ | $17\frac{1}{2}$ | 14 | $9\frac{1}{3}$ |
| 8 | 12 | 32 | $26\frac{2}{3}$ | 20 | 16 | $10\frac{2}{3}$ |
| 9 | $13\frac{1}{2}$ | 36 | 30 | $22\frac{1}{2}$ | 18 | 12 |
| 10 | 15 | 40 | $33\frac{1}{3}$ | 25 | 20 | $13\frac{1}{3}$ |
| 11 | $16\frac{1}{2}$ | 44 | $36\frac{2}{3}$ | $27\frac{1}{2}$ | 22 | $14\frac{2}{3}$ |
| 12 | 18 | 48 | 40 | 30 | 24 | 16 |
| 13 | $19\frac{1}{2}$ | 52 | $43\frac{1}{3}$ | $32\frac{1}{2}$ | 26 | $17\frac{1}{3}$ |
| 14 | 21 | 56 | $46\frac{2}{3}$ | 35 | 28 | $18\frac{2}{3}$ |
| 15 | $22\frac{1}{2}$ | 60 | 50 | $37\frac{1}{2}$ | 30 | 20 |
| 16 | 24 | 64 | $53\frac{1}{3}$ | 40 | 32 | $21\frac{1}{3}$ |
| 17 | $25\frac{1}{2}$ | 68 | $56\frac{2}{3}$ | $42\frac{1}{2}$ | 34 | $22\frac{2}{3}$ |
| 18 | 27 | 72 | 60 | 45 | 36 | 24 |
| 19 | $28\frac{1}{2}$ | 76 | $63\frac{1}{3}$ | $47\frac{1}{2}$ | 38 | $25\frac{1}{3}$ |
| 20 | 30 | 80 | $66\frac{2}{3}$ | 50 | 40 | $26\frac{2}{3}$ |

*Allow $\frac{1}{2}$ inch for each Bushing.

Leg Spread $8\frac{3}{4}$ inches.

ANY REQUIRED NUMBER OF SECTIONS CAN BE FURNISHED,
ASSEMBLED, READY FOR INSTALLATION.

Each Section is $7\frac{3}{4}$ inches wide.

Legs are detachable.

$7\frac{3}{4}$ INCH THREE COLUMN RADIATOR

THE PRESSED RADIATOR COMPANY, PITTSBURGH, PA.

NOTICE

¶ To all advertisers in this publication desiring to send out circular matter, we will pay 15 CENTS for every envelope having upon same the address of any architect correctly taken from our list of architects and "NOT FOUND" BY THE P. O. DEPARTMENT.

¶ This offer holds good until January 1, 1908, provided however that after July 1, 1907, notice of intention to use such list be given one week in advance, so that additions and changes may be forwarded.

S. E. HENDRICKS CO., 74 LAFAYETTE STREET
NEW YORK

HENDRICKS' Commercial Register

Leads the Procession
of Publications in the
==March of Trade==

Among Architects, Builders, Contrac-
tors, Engineers, Purchasing Agents of
Railroads, Mills, Mines, Factories and
Supply Houses

Because it is the most complete Buyers'
Reference and the most profitable
Advertising Medium.

Use Hendricks' COMMERCIAL
REGISTER



Write for particulars of free classifications.

Illinois Steel Co., Rookery bldg., Chicago, Ill.
 McConway & Torley Co., 48th & A. V. Ry.,
 Pittsburgh, Pa.
 Milwaukee Rail Joint & Welding Co., Fabst
 hldg., Milwaukee, Wis.
 New Jersey Steel Co., Rahway, N. J.
 Nix Rail Joint Co., Miles City, Mont.
 Palmer-David Rail Joint Co., Railway Ex-
 change, Chicago, Ill.
 Penna. Steel Co., Steelton, Pa.
 Quincy-Manchester-Sargent Co. ("Q. & C. Bon-
 zano"), Old Colony bldg., Chicago, Ill., &
 114 Liberty, New York
 Rail Joint Co. (Continuous "Weber" & Wal-
 haupter), 29 W. 34th, New York
 Ramapo Iron Works, Hilburn, N. Y., & Niagara
 Falls, N. Y.
 Standard Coupler Co., 160 B'way, New York.
 Works, Bridgeport, Conn.
 Wharton, Wm., Jr., & Co. (Inc.), 25th & Wash-
 ington av., Philadelphia, Pa.
 Wilmington Malleable Iron Co., c Taylor & Lo-
 cust, Wilmington, Del.

Rail Joints (Continuous)

Continuous Rail Joint Co., 142 Market, Newark,
 N. J.
 Lorain Steel Co. (Electrically Welded), Penna
 bldg., Phila., Pa., & Johnstown, Pa.
 Rail Joint Co. ("Weber" & "Wolhaupter"),
 29 W. 34th, New York

Railings (Altar)

(See Brass Altar Rails and Pulpits)

Railings (Brass)

(See Bank & Office Railings.)

*Railings (Iron & Brass Pipe)

BUFFALO WIRE WORKS CO., 316 Ter-
 race, Buffalo, N. Y. (See adv. index, end
 of book)

UNION EQUIPMENT AND BRONZE CO.
 520 W 36th, N. Y. (See adv. outside stencil)

WISCONSIN IRON & WIRE WORKS,
 190 E. Water, Milwaukee, Wis. (See adv.
 index, end of book)

WRIGHT WIRE CO. (& Fixtures),
 Worcester, Mass. (See adv. index & branch
 offices, end of book.)

Railroad Contractors

(See Contractors, Railroad.)

Railroad Contractors' Tents

(See Contractors' Railroad Tents.)

*Railroad Curves

SOLTMANN, E. G.

(Metal & Wood; also Everything for the
 Architect, Engineer & Draughting Room),
 125 E 42d, New York. (See adv. index, end
 of book)

Railroad Equipments (Second Hand)

(See also Railroad Supplies.)

Apex Equipment Co., 11 B'way, New York
 Atlantic Equipment Co. (Locomotives, Cars,
 Relaying Rails, etc.), 111 B'way, New
 York, N. Y.
 Benjamin Iron & Steel Co., D. S. Morgan bldg
 Buffalo, N. Y.
 Birmingham Rail & Locomotive Co. (Locomo-
 tives, Rails, etc.), Birmingham, Ala.
 Block-Pollak Iron Co., First Nat'l Bank bldg,
 Chicago, Ill., and Carthage, Cincinnati, O.
 Brigs, Marvin. Whitehall bldg, New York
**CAREY, GEO. H. (Locomotives, Re-
 laying & Scrap Rails)**, 1 B'way, New
 York, N. Y. (See adv. index, end of
 book)
 Carey, Thos. F. (Rails, Locomotive, Passenger,
 Freight & Dump Cars, etc.), 70 State,
 Boston, Mass.

Carlin's, Thos. Sons Co., 1300 River av, Al-
 legheny, Pa.
 Cincinnati Equipment Co. (Locomotives, Cars,
 Steam Shovels, etc.), Culloms Sta., Cin-
 cinnati, Ohio
 Conard, Thos. P. & Co., 2 S. 15th, Phila., Pa.
 Contractors Equipment Co. (Locomotives
 Steam Shovels, Cars, Rails, etc.), West
 End Trust bldg, Phila., Pa.
 Cox, Justice, Jr., & Co. (Cars, Locomotives,
 Relaying Rails, etc.), Phila., Pa.
 Dallett & Co., Harrison bldg., Phila., Pa.
 Dana & Co., 32 B'way, New York
 Dillie Foundry Co., Pine Bluff, Ark.
 Dreiffus, Emanuel & Co. (Relaying Rails), Ar-
 cade bldg, Phila., Pa.
 Evans, Geo. C. (Rails & Railway Equipments),
 52 B'way, N. Y.
 Fitz-Hugh, Luther Co. (New & Second-Hand
 Locomotives, Cars, etc.), Monadnock blk.
 Chicago, Ill.
 Foster, L. B. Co. (Steel & Relaying Rails),
 Park bldg., Pittsburgh, Pa.
 Gerson, S. & Sons, Toledo, Ohio.

HICKS LOCOMOTIVE & CAR WORKS

(Rolling Stock, etc.), 277 Dearborn, Chi-
 cago, Ill.
 Hirsch, Cal & Sons' Iron & Rail Co., Wells
 bldg., St. Louis, Mo.
 Hirsch, I. C. Iron, Steel & Rail Co. (Cars, Lo-
 comotives, Relaying Rails, Track Materials,
 etc.), Cincinnati, O.
 Hirsch, L. K. Co. (Locomotives, Cars, Relay-
 ing Rails, etc.), 549 Rookery-bldg, Chicago,
 Ill.

Hyde Bros. & Co. (Relaying Rails, etc.), Em-
 pire bldg, Pittsburgh, Pa.

Interstate Car Co., Indianapolis, Ind.

Jones, J. B. & Co. (Relaying Rails), Alle-
 gheny, Pa.

Joseph, Isaac Iron Co., 525 Reading road, Cin-
 cinnati, O., & Monadnock blk, Chicago, Ill.

Joseph, Jos. & Bros. Co., 1242 Harrison av,
 Cincinnati, O.

Kaiser, A. V. & Co., 222 S 3d, Phila., Pa.

Kenly, W. K. & Co. (Relaying Rails, etc.),
 The Rookery, Chicago, Ill.

Kennedy, L. E. (Rails, Cars, Locomotives,
 etc.), Frederick, Md.

Keystone Equipment Co., West st. bldg., New
 York

Kilby Locomotive & Machine Works, Anniston,
 Ala.

Klnly, W. K. & Co., The Rookery, Chicago, Ill.

Lehmer, Jos. R., 1212 Farnam, Omaha, Neb.

Levis, Henry & Co. (Relaying Rails, etc.),
 26 S 15th, Phila., Pa.

Low, Edgar S. Co. (Steam Shovels, Locomo-
 tives, Cars, etc.), Empire bldg, Pittsburgh,
 Pa.

Males Co. (Locomotives, Cars, Rails, Steam
 Shovels, etc.), Traction bldg, Cincinnati,
 O., & 26 Cortlandt, N. Y.

May & Spalding (Frogs, Switches, Section
 Rails, etc.), Atlanta, Ga.

Miller Supply Co., Huntington, W. Va.

Mitshkun, M. Co., Isabella av & E, Detroit,
 Mich.

Ohio Iron & Metal Co., 108 Lasalle, Chicago,
 Ill.

Poulterer & Co., Bullitt bldg, Phila., Pa.

Robinson & Orr, 419 Wood, Pittsburgh, Pa.

Sabel Bros., Fulton bldg., Pittsburgh, Pa.

Schwarzenberg, E. A. (Relaying Rails, etc.),
 Garfield bldg, Cleveland, Ohio

**SHAW, WILLIS, 171 Lasalle, Chi-
 cago.** (See adv. index, end of book)

Smith, Thos. & Son, 437 Leonard, Brooklyn,
 N. Y.

Southern Iron & Equipment Co. (Locomotives,
 Rails, etc.), Atlanta, Ga.

Standard Railway Equipment Co., 77 Jackson
 houl, Chicago

Steel Rail Supply Co. (Relaying & Scrap Rails,
 Spikes, etc.), 100 B'way, New York

Torhert, A. C. & Co. (Locomotives, Cranes,
 Steam Shovels, etc.), Monadnock blk, Chi-
 cago, Ill.

Union Iron Works Co., Selma, Ala.
 Van Loan, I. S. Co., 79 E 130th, New York
**WATSON, BENJAMIN (Locomotives,
 Relaying & Scrap Rails)**, 66 Beaver, New
 York. (See adv. index, end of book)
 Waycott Supply Co. (Locomotives, Cars, Re-
 laying Rails, etc.), 527 N 2d, St. Louis,
 Mo.

Wilson, E. H. & Co. (Locomotives, Coaches,
 Rails, etc.), Arcade bldg, Philadelphia, Pa.

Wolf, L. & Bro. (Locomotives, Relaying Rails,
 etc.), Cincinnati, O., & Savannah, Ga.

Wood, A. M. Co. (Relaying Rails), Arcade
 hldg, Phila., Pa.

Zelnicker, Walter A. Supply Co. (Rails, Frogs,
 Switches, Tools, etc.), St. Louis Mo.

Railroad Excavators

(See Excavators, Steam; also Shovels, Steam.)

Railroad Stationery, Blanks, Manifests, Etc.

(See also Paper, Railroad, Manila & Writing.)

Anchor Mills Paper Co. (Copying Paper),
 Windsor Locks, Conn.

Autographic Register Co. ("Shoups" Mani-
 fold Books), 10th, Clinton & Grand av,
 Hoboken, N. J.

Baker & Vawter Co. (Manifold Shipping
 Blanks), Chicago, Ill.

Barlow Bros. (Manifold Shipping Blanks),
 Grand Rapids, Mich.

Boorum & Pease Co. (Manifold Books), 103
 Duane, N. Y.

Brown, Martin B. & Co. (Railroad Printing,
 etc.), 49 Park pl, N. Y.

Coshy, Chas. E. & Co. (Manifold Books), St.
 Paul, Minn.

Dexter, C. H. & Sons, Windsor Locks, Conn.

Diamond Mills Paper Co. (Manifests & Copying
 Paper), 44 Murray, N. Y.

Eden Tissue Mills (Copying Paper, etc.),
 Whippany, N. Y.

Francis & Louttrell Co. (Manifold Books, etc.),
 146 William, N. Y.

General Manifold Co. (Manifests), 26 B'way,
 N. Y.

Hall, J. C. & Co. (Manifold Books, etc.), Prov-
 idence, R. I.

Hamilton Autographic Register Co. (Manifold
 Shipping Blanks), Hamilton, O.

Hampden Glazed Paper & Card Board Co. (Rail-
 road Blanks), Holyoke, Mass.

Holyoke Card & Paper Co. (Railroad Blanks),
 Springfield, Mass.

King, Albert B. & Co., 105 William, N. Y.

Linden Paper Co. (Copying Paper), Holyoke,
 Mass.

Manifold Supplies Co. (Manifold Books, etc.),
 55 Warren, New York

Mann, Wm. Co. (Copying Paper, etc.), 60
 Maiden la, N. Y.

Martell, A. E. Co. (Manifold Books), 99
 Nassau, New York

Monarch Manifold Book Co., Laight & Varick
 N. Y.

N. Y. Blank Book Co., 7 Laight, N. Y.

Pen-Carbon Manifold Co., 35 Warren, N. Y.

R. I. Card Board Co. (Railroad Blanks), Paw-
 tucket, R. I.

Rogers Manifold & Carbon Paper Co. (Manifold
 Books & Carbon Paper), 75 Maiden la,
 N. Y.

Smith, S. G. Co. (Manifold Paper), 14 Park
 pl, N. Y.

Springfield Paper Co. (Copying Paper), Rain-
 how, Conn.

Union Mills Paper Mfg. Co. (Copying Paper),
 New Hope, Pa.

Ward, John & Son, 98 Cedar, N. Y.

Whitmore, Mfg. Co. (Railroad Blanks), Hol-
 yoke, Mass.

Whittelsey, Frank H. (Railroad Manifest im-
 pression Paper, Train Order Blanks, etc.),
 Windsor Locks, Conn.

Railroad Supplies

(See also the Specific Article Wanted.)

(See also Railroad Equipments, Second Hand;
 also Railway Supplies, Electric.)
 (For all other Railroad Specialties, etc., see
 index of Contents.)

ALABAMA.

ANNISTON—Alabama Frog & Switch Co.
 (Frogs, Switches, Crossing, etc.)

BIRMINGHAM—Birmingham Rail & Locomo-
 tive Co. (Locomotives, Rails, etc., Sec-
 ond Hand)

MOBILE—Barney, Cavanaugh Hardware Co.
 Southern Hdw. Supply Co. (Cars, Rails,
 Spikes, etc.)

CALIFORNIA.

LOS ANGELES—Brown-Spear-Sloan Co.,
 Pacific Elec. bldg

FAIRBANKS, MORSE & CO. (of
 Every Description). (See adv. index, end
 of book)

Pacific Coast Mfg. Co., 126 S Los Angeles
 Sloane, Chas. F. Co.

Union Hardware & Metal Co.

SAN FRANCISCO—Arnold Hardware Co., 1442 O'Farrell
 Bauer Lamp & Reflector Co., 528 Gough
 Boesch Lamp Co., 1135 Mission
 Brown-Spear-Sloan Co., Mills bldg
 Dunham, Carrigan & Hayden Co., 131
 Eccles & Smith, 526 Mission Kansas
 Electric Ry. & Mfrs.' Supply Co., 619
 Howard
FAIRBANKS, MORSE & CO. (of every
 Description. (See adv. index, end of book)
 Garratt, W. T. & Co., 138 Fremont
 Henshaw, Bulkley & Co., 219 Spear
 Lawson, F. A. & Co., 517 Market
 Marwedel, C. W., 258 9th 604 Mission
 Livermore, Norman B. & Co. (Locomo-
 tives, Steam Shovels, Dredges, etc.),
 Marwedel, C. W., 258 9th 604 Mission
 Pacific Hardware & Steel Co., S W cor
 7th & Townsend
 Pacific Tool & Supply Co., 558 Howard

COLORADO.

DENVER—Bond, Duncan, Exchange bldg
 Colorado Fuel & Iron Co., Boston bldg
FAIRBANKS, MORSE & CO.
 (of every description), 1600 17th. (See
 adv. index, end of book)
 Hendrie & Bolthoff Mfg. & Supply Co.,
 McGavic & Hanna, Bank block
 National Railway Supply Co., Continental
 Shaw, S. G. & Co., 1721 Arapahoe bldg

CONNECTICUT.

BRIDGEPORT—Standard Coupler Co. (Couplers,
 Draft Gears, Steel Platforms, etc.)
HARTFORD—Howard, Jas. L. & Co., 438
 Asylum

GEORGIA.

ATLANTA—Beck & Gregg Hardware Co., 66
 Marietta
 Carnegie Steel Co., Candler bldg
 Davis, Wm. P., Fourth National Bank bldg
 May & Spalding, 623 Marietta
 Southern Iron & Equipment Co. (Second
 Hand Locomotives, Rails, etc.), Pru-
 dential bldg
 Spalding-May Foundry & Mach. Co.,
 Sou. Rys. East
SAVANNAH—Davis-Forrest Machine Works
 Georgia Supply Co.
 Hartfelder-Garbutt Co.
 Lovell's, E. Sons
 Lumbermen Supply & Equipment Co.
 Palmer Hardware Co.
 Peoples, H. H. & Sons

ILLINOIS.

CHICAGO—Acme Supply Co., 100 Lake
 Adams, F. O., 204 Dearborn
 Adams & Westlake Co., 110 Ontario
 Ajax Metal Co., 204 Dearborn
 Aldon Co., Monadnock blk
 Allen & Morrison Brake Shoe & Mfg. Co.,
 Women's Temple
 American Ballast Co., Security bldg
AMERICAN BRAKE, SHOE & FOUN-
dry Co. (Brake Shoes, Iron & Steel Cast-
 ings, etc.). (See adv. index, end of book)
 American Locomotive Equipment Co.,
 Railway Exchange bldg
 Ames, Cortlandt F., Monadnock blk
 Atlantic Equipment Co., 9 Jackson boul
 Atlas Railway Supply Co., 315 Dearborn
 Automatic Interchangeable Car Coupling
 Co., 116 S Clinton
 Ayer & Lord Tie Co. (Ties, etc.), Railway
 Ex. bldg
 Baldwin Equipment & Supply Co., Fisher
 bldg
 Bird, F. W. & Son, Monadnock blk
 Block-Pollak Iron Co. (Mfrs. Car & Loco-
 motive Axles & Shape Work & Dealer in
 Relaying Rails & Old Railway Materials),
 First National Bank bldg
 Bregman, L. I. & Co., 164 Dearborn
 Brewer, Jno. S., 171 La Salle
 Bryant Zinc Co., 153 W Van Buren
 Buda Foundry & Mfg. Co. (Track Mater-
 ials, Tools, etc.), Railway Exchange bldg
 Burns, Robt. M. & Co., 9 Jackson pl
 Buss, F. B., Monadnock blk
 California Car Coupler Co., 116 S Clinton
 Camel Co., 84 Van Buren 111.
 Car Builders' Supply Co., 9 Jackson boul
 Cardwell, J. R., Monadnock blk
CARPENTER, GEO. B. & CO.
 202 S Water. (See adv. index, end of book)

Castle, A. M. & Co., 55 N Jefferson
 Channon, H. Co. (Shovels, Tools, Tents
 & General Supplies), Market & Randolph
 Chicago Car Seal & Mfg. Co., 108 N Green
 Chicago-Cleveland Car Roofing Co., 84 Van
 Buren

Chicago Crossing Co., Monadnock blk
 Chicago Grain Door Co., Monadnock blk
 Chicago Merchandise & Equipment Co.,
 Union Stock Yards

CHICAGO PNEUMATIC TOOL CO.
 (Pneumatic Tools & Appliances of all
 Kinds), Fisher bldg. (See adv. index,
 end of book)

Chicago Railway Equipment Co., Great
 Northern bldg
 Chicago Supplemental Car Body Co., 2
 Clapp, H. A., 89 S Canal Sherman
 Consolidated Railway Electric Lighting &
 Equipment Co., 2023 S Clark

Crerar, Adams & Co., 11 5th av
 Curtain Supply Co., 85 Ohio
 Dilworth, Porter & Co., 204 Dearborn
 Drexel Railway Supply Co., 84 Van Buren
 Duuer Co., 116 S Clinton
 Elliott, Percy M., 84 Van Buren
 Ellis, Jerome A., 77 Jackson boul

FAIRBANKS, MORSE & CO. (of
 every description), Franklin & Monroe.
 (See adv. index, end of book)

Fitz-Hugh-Luther Co. (Locomotives, Cars,
 Rails, etc.), Monadnock blk
 Forsyth Automatic Air & Steam Coupler
 Co. (Automatic Air & Steam Couplers),
 The Rookery

Forsyth Bros. Co., 31 E Indiana
 Gardner, James T., Railway Exchange bldg
 General Railway Signal Co., Monadnock blk
 Goldie, Wm., Jr., & Co., 204 Dearborn
 Gould Coupler Co., The Rookery
 Gross, Howard H., Railway Exchange bldg
 Hale & Kilburn Mfg. Co., 279 Dearborn
 Hall & Nelson, The Rookery
 Hall Signal Co., Monadnock blk
 Handy Car Equipment Co. (Snow Car &
 Locomotive Replacers), Old Colony bldg
 Harris Track Laying Machine Co., 315
 Wabash av

Hewitt, Chas. M., Railway Exchange bldg
 Hicks Locomotive & Car Works (Rolling
 Stock, etc.), 277 Dearborn
 Hirsch, L. K. Co. (Rails, Splice Bars,
 Bolts, Spikes, etc.), The Rookery
 Holdredge, Chas. B. & Sons, 9 Jackson
 Holland Co., 56 N Jefferson boul
 Holman, Daniel F., Railway Track Layer
 Co., 9 Jackson boul

International Register Co., 124 W Jackson
 Johnson, Louis, 47 S Canal boul
 Jones Car Door Co., Monadnock blk
 Jones & Laughlin Steel Co., W Lake, N E
 c Canal

Jordan, Oswald F., 9 Jackson boul
 Joseph, Isaac Iron Co. (Relaying Rails,
 Locomotives, etc.), First Nat'l Bank
 bldg

Joseph, Joseph & Bros. Co., 9 Jackson
 boul

Kenly, W. K. & Co. (Rails & Track Ma-
 terials), First Nat'l Bank bldg

Kilbourne & Jacobs Mfg. Co., Ry Exch.
 bldg

Kindl Car Truck Co. (Kindl Truck Frames),
 135 Adams

Kirby Equipment Co., Railway Exchange

Latrobe Steel & Coupler Co., 84 Van
 Buren

Lester, F. A. & Co. (Forgings, Ties, Tool
 Steel, etc.), 84 Van Buren

Littlefield, Andrew S., Monadnock blk
 Locomotive Appliance Co., Old Colony
 bldg

Love Brake Shoe Co. (Armbrust Brake
 Shoes, etc.), Fisher bldg

Lovejoy, Thos. H., 90 Ohio

Luce, E. F. & Co., 218 La Salle

McClellan & Co., 5751 Normal av
 McConway & Torley Co., 77 Jackson boul

McCord & Co., Old Colony bldg
 McGuire-Cummings Mfg. Co., 122 N San-
 gamon

MANNING, MAXWELL & MOORE.
 22, 24 & 26 S Canal. (See adv. index,
 end of book)

Mark Equipment Co., 418 43d
 Mayer & Englund, 135 Adams

Mechanical Mfg. Co. ("Bartley" Bumping
 Posts), Union Stock Yards

Miller Signal Co., Monadnock blk
 Miner, W. H. Co. (Draft Rigging, etc.), The
 Rookery

Monarch Supply Co., 135 Adams
 Morden Frog & Crossing Works, The Rookery

MURPHY, CHRISTOPHER & CO.
 (Iron, Steel, etc.), First National Bank
 bldg. (See adv. index, end of book)
 National Car Coupler Co. (Buffers, Cou-
 plers, Draft Gear, Steel Platforms, Cen-
 tralizing Yokes, etc.), Monadnock blk
 Works, Converse, Ind.

National Hollow Brake Beam Co., 77 Jack-
 son boul

National Lock Washer Co., Monadnock blk
 National Mfg. & Supply Co. (Railway Spe-
 cialties), Marquette bldg

National Surface Guard Co., The Rookery
 National Ticket Case Co., 50 N Elizabeth

Naugle Pole & Tie Co., 226 La Salle
 Naugle, E. E. Tie Co. (Ties, Poles & Lum-
 ber), 159 La Salle

New York Air Brake Co., 279 Dearborn

Nichols, Geo. P. & Bro., Monadnock blk
 Otis, Spencer Co., Railway Exch. bldg

Paige Iron Works, Railway Exchange bldg
 Parkhurst & Wilkinson Co., 143 Kenzie

Pettibone, Mulliken & Co. (Frogs, Switches,
 Switch Stands, Track Drills, Rail Bend-
 ers, Track Jacks, etc.), 204 Dearborn

Phoenix Car Spring Co., The Rookery
 Pneumatic Gate Co., 950 S Fairfield av

Pressed Steel Car Co., 279 Dearborn
 Pyle National Electric Headlight Co., Mo-
 nadnock blk

Raber & Watson, 84 Van Buren
 Railroad Supply Co., 215 Dearborn

Railroad Supply Co. (All Kinds), Bedford
 bldg

Railway Steel Spring Co. (Springs, Steel
 Tired Wheels, etc.), Fisher bldg

Railway Supply & Mfg. Co., 9 Jackson
 boul

Railway Materials Co. (Heating Furnaces,
 Bearings, Brake Shoes, etc.), Old Colony
 bldg

Republic Railway Appliance Co., Railway
 Exchange bldg

Richmond Safety Gate Co., Marquette
 Ripley, Wm. & Son, 36 La Salle bldg

Ristiuc Co. (Channel Pius & Railroad Ap-
 piances), Rookery bldg

Rowell-Potter Safety Stop Co., The Rook-
 ery

Ryerson, Jos. T. & Son, 18 Milwaukee av
 Safety Car Heating & Lighting Co., Monad-
 nock blk

Sellers Mfg. Co., 27 W Chicago av
SHAW, WILLIS (Locomotives,

Relaying Rails, etc.), 171 La Salle. (See
 adv. index, end of book)

Simplex Railway Appliance Co., First
 National Bank bldg

Simpson, Wm. M., 84 Van Buren
 Smith Car Door Co., Monadnock blk

Spear & Miller Co. (Brake Shoes, etc.),
 Great Northern bldg

Standard Car Truck Co. (Car Trucks, etc.),
 84 Van Buren

Standard Coupler Co., Monadnock blk
 Standard Ry. Equipment Co., 77 Jackson
 boul

Templeton, Kenly & Co. (Ltd.) (Car Jacks,
 Relaying Rails, etc.), 611 S Morgan

Thomas, Theodore, 77 Jackson boul
 Torbert, A. C. & Co., Monadnock blk

Union Drop Forge Co., 76 E Ohio
UNION SWITCH & SIGNAL CO.,
 The Monadnock blk

United States Metallic Packing Co., 77
 Jackson boul

United Supply & Mfg. Co., Railway Exch.
 Universal Car Bearing Co., 168 Michigan

Van Dorn, W. T. Co., 1076 S Paulina
 Wallace Supply Co., 56 5th av

Walworth & Neville Mfg. Co., 42 Madl-
 Ward, E. J. & Co., 259 Wabash av son

Waugh Draft Gear Co., Monadnock bldg
 West, Francis T., The Rookery

Western Rail Supply Co., Hartford bldg
 Westinghouse Air Brake Co., 9 Jackson

Wilcox, W. W. & Co., 201 Lake boul
WILSON, F. CORTEZ & CO., 239 Lake

(See adv. index, end of book)
 Woods, Edwin S. & Co., Monadnock bldg

Yale, Julian L. & Co. (Couplers, Bolsters,
 Car Roofs, Steam Shovels, Rivets, Boiler
 Tubes, etc.), Railway Exchange bldg

Young, Frederick, 78 W Jackson boul
CHICAGO H'GHTS—AMERICAN BRAKE

Shoe & Foundry Co. (Brake Shoes, Iron &
 Steel Castings, etc.). (See adv. index, end
 of book)

EAST ST. LOUIS—Elliott Frog & Switch Co.
 (Frogs, Switches, Chairs, Rail Braces, etc.)

GRANITE CITY—Commonwealth Steel Co.
 (Steel Trucks, Castings, etc.)

HARVEY—Buda Foundry & Mfg. Co. (Track
 Materials, Tools, etc.)

MOUNT VERNON—Mt. Vernon Car Mfg. Co.

INDIANA.

CONVERSE—National Car Coupler Co. (Buffers, Couplers, Draft Gear, Steel Platforms, Centralizing Yokes, etc.)
HAMMOND—Simplex Railway Appliance Co. (Car Bolsters, Roller Side Bearings, etc.)

KENTUCKY.

LOUISVILLE—Belknap Hdw. & Mfg. Co., 2d & Washington
FAIRBANKS, MORSE & CO., 519 Main. (See adv. index, end of book)
 Louisville Car Wheel & Railway Supply Co., 308 5th
 Semple, W. & A. C., 311 W Main
 Todd-Donigan Iron Co., 817 W Main

LOUISIANA.

NEW ORLEANS—Bierce, Wm. W. (Ltd.) (Steel Rails, Frogs, Switches, Equipments, etc.), Hennen bldg
 Menge, J. H. & Sons, Cmmou & Techouptoulas

MAINE.

PORTLAND—Barbour, J. & E. R., 8 Exchange
 Blake, W. L. & Co., 79 Commercial
 Perry, W. H. & Co., 167 Kennebec
 Portland Co., 58 Fore

MARYLAND.

BALTIMORE—American Air Brake Co., Knickerbocker bldg
 Basshor, Thos. C. Co., 28 Light
 Coggins & Owens, 19 S Charles
 Cuyler & Mohler, 611 William
 Eastern Railway Supply Co. (Bar Iron, Brushes, etc.), Continental bldg
 Economy Locomotive Sander Co., 28 S Charles
 Habighurst, Chas. F., 213 North
 Hoffman, R. C. & Co. (Iron & Steel Specialties, etc.), Continental bldg
 Klrwan-Robirds Supply Co.
 Maryland Equipment & Supply Co., Equitable bldg
 Symington, T. H. Co., Calvert bldg
 Standard Supply & Equipment Co. (Machinery, Tools & Supplies), 306 N Holiday
 Universal Railway Supply Co., Union Trust bldg
CUMBERLAND—McKaig, Merwin

MASSACHUSETTS.

BOSTON—Burnham & Duggan Railway Appliance Co., 89 State
 Carey, Thos. F., 70 State
 Dodge-Halcy Co., 153 Broad
 Fairbanks Co., 40 Pearl
 Field, A. W., 89 State
 Fitts, Frank E. Mfg. & Supply Co., 88 Purchase
 Gilchrist, Geo. E. Co., 106 High
 Gorham, Richard H., 4 P. O. sq
 Harrington, Robinson & Co. (Track, etc.), 272 Franklin
 Huntress, Franklin E. & Co., 131 State
 Kessel, Henry A. Co. (Hardware, Tools, etc.), 165 Milk
MANNING, MAXWELL & MOORE, 128 Olive. (See adv. index, end of book)
 Perrin, Seamans & Co., 57 Oliver
 Pfingst, Louis, 31 State
 Sherburne & Co., 53 Oliver
 Soule Raw Hide Lined Dust Guard Co., 113 Devonshire
 Stowell, Frank C., 178 Devonshire
 Sylvester Co., 70 Kilby
 Taylor, Fred, 14 Kilby
 Whall, C. H. & Co., 170 Summer
 Wonham & Magor, 141 Milk
CAMBRIDGE—Kanaly, M. E. Co.
SPRINGFIELD—Wason Mfg. Co. (Car Wheels, etc.)

MICHIGAN.

DELRAY—Chicago Railway Equipment Co., Louis & River sts. (Delray is part of Detroit.)
DETROIT—**ANDERSON FORGE & MACHINE** Co., 21 St. Aubin et. (See adv. index, end of book)
 Appelbaum, P. S. Co., 71 Atwater, E
 Buhl, Sons & Co., 103 Woodbridge, W

DETROIT Steel Casting Co., 1243 Michigan
FAIRBANKS, MORSE & CO. (of every description), 89 Jefferson av. (See adv. index, end of book)
 Freeman, Delameter & Co., 8 Woodward
 Ginsburg, R. L. & Sons (Relaying Rails, Scrap, etc.), 542 Franklin
 Lorimer's, J. S., Sons, Moffat bldg
 Mitshkun, M. Co. (Second-hand), Isabella & E
 Monarch Steel Castings Co., Solvay av. & M. C. R. R.
RUSSEL WHEEL & FOUNDRY Co. (Cars, Car Trucks & Railway Supplies. (See adv. index, end of book)
 Stirling, J. R. & Co., 83 Fort, W
 Wheel Truing Brake Shoe Co., The Lenox
FLINT—Cook Car Journal Cooler Co.
GRAND RAPIDS—Braudy, M. & Sons
KALAMAZOO—Kalamazoo Railway Supply Co. (Cars, Track Supplies, etc.)
THREE RIVERS—Sheffield Car Co.

MINNESOTA.

DULUTH—Crane & Ohrway Co., 12 W. Michigan
 Kelley-Howe—Thomson Co., 245 S 5th av
 Marshall-Wells Hardware Co.
MINNEAPOLIS—Electric Engineering Co., 21 N 6th
FAIRBANKS, MORSE & CO. (of every description), 220 Nicolet av. (See adv. index, end of book)
 Morison, W. K. & Co., 247 Nicolet av
 Reau, Wm. E., Guaranty bldg.
 Sanford, Chas. E. & Co.
 Washburn Coupler Co., 1007 S Third
 Woolman, Ellis. (Locomotives & Steam Shovels Rebuilt, etc.), 27th av, S E, nr. Essex
ST. PAUL—Carnegie Steel Co., Pioneer Press
 Copeland, John, Century bldg
 Crane & Ordway Co., 250 E 4th
 Czapski, B. B., Pioneer Press bldg
FAIRBANKS, MORSE & CO. (of every description), 234 E. 3d. (See adv. index, end of book)
 Griffin Wheel Co., Phalen & Stillwater
 Ingersoll, G. E., Nat'l G. A. Bank bldg
 Kalman, P. J., Metropolitan Pioneer Press bldg
 Kenyon, G. M., Pioneer Press bldg
 Larkin, J. P., Endicott bldg
 McNair, H. C., Endicott bldg
 Noyes Bros. & Cutler, 400 Sibley
 Rank & Goodell, Pioneer Press bldg
 Robinson & Carey Co., 4th cor Wacouta
 Wright, W. H. S., Pioneer Press bldg
WINONA—Union Fibre Co. (Refrigerator Car Lining, Locomotive Logging, Pipe Coverings, etc.)

MISSOURI.

KANSAS CITY—Black, Frank B. Co., 1209 Union av
FAIRBANKS, MORSE & CO. (of every description). See adv. index, end of book
 Mercantile Lumber & Supply Co. (Track Supplies, Brasses, Axles, Frogs, Switches, Bearings, Brake Shoes & General Supplies), 906 Baltimore av
 Jacques, W. R., Bank of Com. bldg
ST. LOUIS—Adkins, James, Jr., 219 N 4th
 Adreon & Co. (General Supplies), Security bldg
AMERICAN BRAKE SHOE & FOUNDRY Co., Security bldg. (See adv. index, end of book)
 Banner Iron Works, Missouri Trust bldg
 Biggers, W. D. & Co. (Track Tools, etc.), Merchants-Laccede bldg
 Commonwealth Steel Co. (Steel Trucks & Castings, etc.), Bank of Commerce bldg
CRANE CO., 30 S. 16th. (See adv. index, end of book)
 Damascus Brake Beam Co., Commonwealth Trust bldg
 Dickson, Paul, 319 N 4th
FAIRBANKS, MORSE & CO. (of every description), 8th c Clark av. (See adv. index, end of book)
 Fltzhugh, Luther Co., 721 Olive
 General Railway Supply Co., Commercial bldg
 Green, R. W., Railway Supply Co., 507 N 2d
 Handlan-Buck Mfg. Co. (of every description), 212 N 3d
 Hollocher, G. A., 810 Olive

Hirsch, Cal. & Sons, Iron & Rail Co., Wells bldg
 Johann, Fred A., Equitable bldg
 Kingsland-Kay-Cook Mfg. Co., Mullanphy, 11th to 12th
 Linley, E. H. Supply Co., 714 N 2d
MANNING, MAXWELL & MOORE, 305 Frisco bldg. (See adv. index, end of book)
 Miller, Joseph G., 421 Olive
 National Equipment Co., 721 Olive
 Partridge, Arthur S., 421 Olive
 Railroad Supply Co., 319 N 4th
 Railway Appliances Co., 319 N 4th
 Railway Supply Co., 7 N 3d
 Republic Railway Appliance Co., 2 S Main
 Reynolds, Alfred C., 509 Chestnut
 Rose, W. B., Supply Co., 406 Market
 Rumsey, L. M. Mfg. Co. (Construction Tools, Supplies, etc.), 806 N 2d
 St. Louis Rail & Equipment Co., 706 Chestnut
 Standard Railway Equipment Co. (Pneumatic Tools, etc.), National Bank of Commerce Taylor, James H., 510 Pine
 Thompson, C. A. (Frogs, Switches, Crossings, Track Tools), 514 N 3d
 Union Switch & Signal Co., 906 Olive
 Waycott Supply Co. (Locomotives, Cars, Relaying Rails, Tools & Supplies, etc.), 527 N 2d
 Western Railway Equipment Co., Missouri Trust bldg
 Wyeth, J. H., 509 Chestnut
 Zelnicker, Walter A. Supply Co. (Rails, Switches, Tools & Supplies), 408 N 4th

NEBRASKA.

OMAHA—**FAIRBANKS, MORSE & CO.** (of every description), 1102 Farnam. (See adv. index, end of book)
 Lehmer, Jos. R. (General Supplies), 1212 Farnam
 Otis Spencer Co.

NEW JERSEY.

HIGH BRIDGE—Taylor Iron & Steel Co.
HOBOKEN—New York Switch & Crossing Co. (Frogs, Switches, Castings, etc.)
MAHWAH—**AMERICAN BRAKE SHOE & FOUNDRY** Co. (See adv. index, end of book)
NEWARK—Brooks, E. J. & Co., 5th av & N 13th
 Roe & Conover, 200 Market
PASSAIC—New Jersey Engineering & Supply Co.

NEW YORK.

ALBANY—Albany Hardware & Iron Co.
BROOKLYN—(See New York City, Borough of Brooklyn)
BUFFALO—Baker, Howard H. & Co., 18 Terrace
 Beals & Co. (Iron, Steel, Tool & Supplies), 44 Terrace
 Buffalo Mill Supply Co., Elliott sq
 Case, W. A. & Son Mfg. Co., 31 Main
 Fairbanks Co., 145 Seneca
 International Railway Appliance Co., Prudential bldg
 Johnson, Chas F. (New & Relaying Rails, Locomotives, Cars, etc.), Ellicott Sp
 Niagara Railway & Mill Supply Co.
 Nolan, Frank J., Ellicott Sq
 Pratt & Letchworth Co., 189 Tonawanda
 Southern Exchange Co., Ellicott Sq
 Smlth, T. Guilford, German Ins. bldg
 Walbridge & Co., 392 Main
 Weed & Co., 292 Main
 Wheeler-Holden Co., 49 Erle Co. B'k bldg
DUNKIRK—Droege, H. H.
NEWBURGH—Gregg Co. (Ltd.)

NEW YORK CITY.**Boroughs of Manhattan & Bronx**

NEW YORK—Adams & Westlake Co., 26 Allison, Giles S., 42 B'way Cortlandt
AMERICAN BRAKE SHOE & FOUNDRY Co. (Brake Shoes, Iron & Steel Castings, etc.), 170 B'way. (See adv. index, end of book)
 American Equipment Co., 45 Wall
 American General Trading Co., 132 Liberty
 American Railway Supply Co., 24 Park pl
 Apex Equipment Co. (Locomotives, Cars, Wheels & Equipment), 11 B'way
 Atlantic Equipment Co., 111 B'way
 Avery, Chas. F., 45 B'way
 Barrett, Chas. E., 277 B'way

Brooks, E. J. & Co. (Car Seals & Presses),
227 Fulton
Buckley, L. J. & Co. (Iron & Steel, Frogs,
Switchings, Crossings, Spring, Wheels,
etc.), 257 B'way

Burnet Co., 121 Maiden la
Burnham, Williams & Co., 71 B'way
Burnwell, Jules H., 10 Wall

CAREY, GEORGE H. (Cars, Loco-
motives, Rails, Turntables, etc.), 1 B'way.
(See adv. index, end of book)

Carnahan, Robt. O., 73 Nassau
Claffy, John, 48 Dey
Clark, H. A., & Co., 17 State
Colwell, Robert, 141 B'way
Consolidated Equipment Co., 17 Battery pl
Continental Car & Equipment Co., 17 Bat-
tery pl

Continental Iron & Steel Co., 68 Broad
Creamer, W. G. & Co., 96 John
Dana & Co., 32 B'way
Demling, Wm. B., 17 State
Dillworth, Porter & Co. (Ltd.), 35 Wooster
Douglas, Geo. B. (Iron, Steel & Supplies),
29 B'way

Dutilh-Smith, McMillan & Co., 25 Broad
Fairbanks Co., 186 Lafayette
FAIRBANKS, MORSE & CO. (of
every description), 133 Liberty. (See adv.
index, end of book)

Fitz-Hugh Luther Co., 141 B'way
Fox Bros. & Co., 126 Lafayette
French, S. A., 108 W 28th
Gorham, Francis G., 34 Pine
Greenwood, W. M., 114 Liberty
GREGG COMPANY, 1 B'way. (See
adv. index, end of book)

Hale & Kilburn Mfg. Co., 33 Union Sq W
Hamilton Co., 8 S William
Horn Construction & Supply Co., 26 Cort-
landt

Irving Mfg. & Tool Co. (J. F. McCoy,
Prop.), 159 Chambers
Jesup, F. W. & Co., 39 Cortlandt
Keeler, H. E., 26 Cortlandt

KOPPEL, ARTHUR CO. (Industrial,
etc.), 68 Broad. (See adv. top of next
column; branch offices, end of book)

Ludlow, J. A., 51 Leonard
McCord & Co., 24 Broad
McCoy, Joseph F. Co., 157 Chambers

**MAINE-McCORMICK CO., 72 Mur-
ray.** (See adv. below)

Males Co. (Locomotives, Cars, Rails,
Steam Shovels, etc.), 26 Cortlandt
Manhattan Supply Co., 127 Franklin

MANNING, MAXWELL & MOORE,
85, 87 & 89 Liberty. (See adv. index,
end of book)

Motley, Green & Co. (Track, etc.), 68
Motley, Thornton K., 12 John. Broad
National Railway Materials Co. (Track
Equipments, etc.), 90 West

Pangborn, Thos. W. Co., 90 West
Porter's, Wm., Sons Co., 17 Vandewater
Prosser, Thos. & Son (Steel, Steel Tires &
Tired Wheels, etc.), 15 Gold

Quincy-Manchester-Sargent Co., 90 West
Kinds, 5th av & 32d st

Railroad Joint Co. (Rail Joints, Tie
Plates, Nut Locks, etc.), 29 W 34th

Railroad Supply Co. (all kinds), 143 Lib-
erty

MANUFACTURERS OF COMPLETE INDUSTRIAL AND PORTABLE RAILROADS

A LARGE STOCK

— OF —

**Rails, Steel Ties, Track, Port-
able Track, Switches, Frogs,
Turntables, Wheels, Axles,
Crossings, Spare Parts, Loco-
motives, Etc.**

WRITE FOR CATALOG "M"

ARTHUR KOPPEL COMPANY

66-68 Broad Street, New York
1639 Monadnock Blk., Chicago
Machesney Bldg., Pittsburgh
Chronicle Bldg., San Francisco
Works at Koppel, Beaver Co., Pa.

Railway Supply & Equipment Co. (All
Kinds), 5th av c 32d

Railway Supply & Mfg. Co., 100 B'way

Rogers, Henry A., 19 John

Sherman-Brown, Clements Co., 78 Murray

Simplex Railway Appliance Co. (Car Bol-
sters, Roller Side Bearings, etc.), 42
B'way

Spiral Bearing & Supply Co., 74 B'way

Standard Railway Equipment Co., 90 West

Standard Rail Supply Co., 100 B'way

Steel Rail Supply Co., 2 Rector

STRONG MACHINERY & SUPPLY
Co. (Packings, Waste, Emery Wheels,
etc.), 48 Franklin. (See adv. index, end
of book)

Thomas, Theodore, 50 W 9th

Turner, Thos., 11 B'way

UNION SWITCH & SIGNAL CO., The,
143 Liberty

U. S. METAL & MFG. CO. (Car
Doors, Brake Beams, Brake Jaws, Car Re-
placers, Lock Nuts, Reels or Racks), 25
Broad. (See adv. index, end of book)

Vandyck, J. R. Co., 8 Dey.

Van Vechten, Arthur (Inc.), 133 G'wich.

Vermilye & Power, 17 Battery pl

Wallace Supply Co., 26 Cortlandt

WATSON, BENJAMIN, 66 Beaver.
(See adv. index, end of book)

Welch, H. A. & Co., 291 Pearl

Wendell & McDuffie, 26 Cortlandt

Westinghouse Traction Brake Co., 111
B'way

WIENER, ERNST CO. (Industrial,
etc.), 68 Broad, New York. (See adv.
opp. next page)

Wonham-Major Engineering Works (Indus-
trial, etc.), 29 B'way

Wonham-Magor Engineering Works (Indus-
trial, etc.), 29 B'way

Worthington, W. W. & Co. (Special
Mach'y & Iron & Steel), 143 Liberty,
New York

(END OF NEW YORK CITY)

ROCHESTER—General Railway Signal Co.

PROY—Federal Railway Signal Co.

Hammett Machine Works, 476 8th

OHIO.

CINCINNATI—Block-Pollak Iron Co. (Car &
Locomotive Axles & Shape Work, Dealer
in Relaying Rails & Old Railway Ma-
terials), Carthage

Cincinnati Equipment Co., Cullom's Sta-
tion

Cincinnati Ry. Supply Co., 13 E. 2d.

FAIRBANKS, MORSE & CO. (of
every description), 137 W 4th. (See adv.
index, end of book)

General Mfg. & Supply Co. (Relaying
& New Rail Track Materials, etc.)

Hirsch, I. C. Iron, Steel & Rail Co., 1st
Nat'l Bank bldg

Johnston, Wm. T. Co. (Tools and Sup-
plies), 522 Main

KINSEY, E. A. CO. (Machine Shop
Machinery, Tools & Supplies), 331 W 4th
(See adv. index, end of book)

McGowan, John H. Co., 54 Central av

MacLeod, Walter & Co., 213 E Pearl

Males Co. (Locomotives, Cars, Rails,
Steam Shovels, etc.), 1st Nat'l Bank bldg

Pickering Hardware Co., 5th & Main

Queen City Supply Co. (Everything ex-
cepting Rolling Stock), 201 W Pearl

Post-Glover Electric Co., 314 W 4th

Railway Supply & Mfg. Co., 1242 Harrison
av

CLEVELAND—Bingham, W. Co. (Also Min-
ing, etc.), 1433 W 9th

Cleveland Frog & Crossing Co., 614 Cay-
uga bldg

FAIRBANKS, MORSE & CO. (of
every description), 1354 W. 9th. (See
adv. index, end of book)

Fulton Foundry Co., Marquette st at L. S.
& M. S. Ry.

Gates, F. C. & Co., Cuyahoga bldg

Graham Draft Co., Wason, S W c Hamilton

Hathaway, A. G. & Co., Cuyahoga blk

Ingraham, Timothy, 7 S Water

McIntosh Hardware Corporation, 725 Su-
perior

MANNING, MAXWELL & MOORE.
Williamson bldg. (See adv. index, end
of book)

McIntosh Hardware Corp'n, 725 Superior

PATTISON, W. M. SUPPLY CO.
(Tools, etc.), 197-211 St. Clair av. (See
adv. on following page)

STRONG, CARLISLE & HAMMOND
Co. (Machinery, Tools & Supplies), 333-
334 Frankfort av, N W. (See adv.
index, end of book)

Talmage Mfg. Co., 118 St. Clair

Worthington, Geo. Co., 814 St. Clair

MAINE-McCORMICK CO.

72 Murray Street

NEW YORK CITY

Contractors' Supplies

OF EVERY DESCRIPTION

Mill, Mine and Railroad Supplies, and Marine Specialties

COLUMBUS—Columbus Mill & Mine Supply Co.
DAYTON—Dayton Mfg. Co.
Gimperling, J. E. & Son
TOLEDO—Bostwick-Braun Co.
WEST PARK—Cleveland Car Co.
YOUNGSTOWN—Morris Hardware Co.

OREGON.

PORTLAND—Brady, M. F., Chamber of Com bldg
FAIRBANKS, MORSE & CO. (of every description), 1st & Stark. (See adv. index, end of book)
Heacock & Lawrence Iron Works
Railway Equipment Co., Chamber of Commerce bldg

PENNSYLVANIA.

ALLENTOWN—Taylor, Wm. H. & Co
ALTOONA—Standard Supply & Equipment Co. (Machinery, Tools & Supplies)
CHESTER—Johnston R. R. Frog & Switch Co.
FRANKLIN—Franklin Railway Supply Co.
PHILADELPHIA—Acme Railway Equipment Co., North American bldg
Adams & Westlake Co., 2042 N 10th
Bell & Co. (Railway, Mine & Contractors' Supplies), Betz bldg
Bickerton, T. B., 422 Commerce
Chester Steel Castings Co., 407 Sansom
Conard, Thos. P., & Co., 2 S 15th
Etting, Edw. J. (Cranes, Hoists, Car Wheels, etc.), Harrison bldg
Fairbanks Co., 701 Arch
Goodman, Edw. H., Land Title bldg
Halyburton, Chas., 217 Walnut
Howard Supply Co., Witherspoon bldg
Janney, Steinmetz Co. (Iron, Steel & Aluminum)
Juniata Supply Co., Arcade bldg
Justice, Philip S. & Co., Phila. Bank bldg
Keystone Rail Joint & Supply Co., 1936
Keystone Supply Co., 927 N 9th Sansom
Law, Ernest & Co. (Rails, Cars, Locomotives, Track Equipments, etc.), 1502 Market
Levis, Henry & Co. (Iron & Steel Rails, Car Wheels & Railroad Equipments), 28 S 15th
Lindsay, Jas. G. & Co. (Rails, Fish Plates, Spikes, Iron & Steel in Bar, Plate Sheet Shapes, Pipe, Tubes, etc.), Arcade bldg
MANNING, MAXWELL & MOORE, 721 Arch. (See adv. index, end of book)
Massy Railway Supply Co., 583 Bourse
Middleton, Howard W. Co. (Iron, Steel, etc.), 945 Ridge av
Morris, Herbert, Betz bldg
Railway & Electric Equipment Co., Real Estate Trust Co. bldg
Sanville, H. F. & Co., Girard bldg
Shannon, J. Jacob & Co. (Locomotives, Cars, Steam Shovels, Contractors' Tools, etc.), 1744 Market
Standard Supply & Equipment Co. (Machinery, Tools & Supplies), 1710 Market
Sterlingworth Railway Supply Co., North American bldg
Union Railway Supply Co., Real Est. Trust bldg
Watson, Jno. B., Drexel bldg
Wharton, Wm., Jr., & Co. (Inc.) (Track & Electric Specialties), 25th & Wash'n av
Wheeler, M'fllin & Co. (New & Old Rails, Iron & Steel, etc.), Arcade bldg
Williamson & Cassidy, 526 Market
Wilson, E. H. & Co. Coaches, Locomotives, Rails, etc.), Arcade bldg

Woodruff, Geo. S., Crozer bldg
PITTSBURG—American Railway Supply Co., Crozier bldg
Contractors & Railway Supply Co., Key-stone bldg
Flocker, John & Co. (Ltd.), 935 Liberty av
Frick & Lindsay Co., 109 Wood
Hyde Bros. & Co. (Iron, Steel, Metal, etc.), Empire bldg
Joseph, Jos. & Bros. Co. (Iron), Park bldg
Logan-Gregg Hardware Co., 125 7th
McConway & Torley Co. (Car Couplers, Vestibules, Steel & Malleable Iron Castings, etc.), 123 48th
MANNING, MAXWELL & MOORE, Park bldg. (See adv. index, end of book)
Maxwell, Edw. L., Arrott bldg
Moore, Edgar & Co. (New & Relaying Rails, etc.), Farmers' Bank bldg
Pittsburg Gage & Supply Co., 309 Water
Pittsburg Railway Supply Co. (Anti-Friction Journals & Railway Supplies), Park bldg

Pittsburg Supply Co., 445 Water
Railway Supply & Mfg. Co., Park bldg
Robinson & Orr, 419 Wood
Sable Bros., Fulton bldg
Somers, Fittler & Todd Co. (Tools, Supplies, etc.), 327 Water
Standard Steel Car Co. (Steel Cars & Trucks, Steel Underframes, Bolsters, Brake Beams, etc.), Frick bldg
Standard Supply & Equipment Co. (Machinery, Tools & Supplies, 811 Liberty av
Union Purchasing & Equipment Co., Empire bldg
WESTINGHOUSE AIR BRAKE Co., The (Air Brakes, Draft Gears, etc.)
SCRANTON—Derry, A. L. & Co.
Scranton Mercantile Co. (Also Mine)
Scranton Supply & Machinery Co.
SWISSVALE—Union Switch & Signal Co., The
WILKES-BARRE—Penna. Supply Co.
United Supply Co.
Vulcan Iron Works

TENNESSEE.

BRISTOL—Mitchell-Powers Hardware Co.
CHATTANOOGA—James Supply Co.
MEMPHIS—Livermore Foundry & Machine Co., 290 Adams
Manogue-Pidgeon Iron Co., 226 2d
NASHVILLE—Fall, J. H. & Co.
Gray & Dudley Hardware Co.

TEXAS.

HOUSTON—Bering-Cortes Hardware Co.
Heitmann, F. W. Co.
Meyer, Jos. F. & Co.

VIRGINIA.

NORFOLK—Bowen, Joseph E. Bank of Com
Lumley-Dodson Co., 191 Water
Mayer & Co., 74 Commercial pl
Southern Supply Co., 271 Water
Taylor, W. H. & Co., 224 Water
Walke, Henry Co., 286 Water
White, E. V. & Co., 41 Commercial pl
RICHMOND—Bargamin, G. & A Co., 14 S 9th
Commonwealth Supply Co., 822 Mutual
Davis & Bryan, 4 N 10th bldg
Frischkorn, Hunter B., 801 E Cary
McGraw, Jas. (Tools & Supplies), 1440 F
Smith-Courtney Co., 1418 E Cary Main
Southern Railway Supply Co., 1323 E Main
Stringfellow, Jas. W., 1001 E Main

WASHINGTON.

Thomas, Walter D., 1001 E Main
SEATTLE—Evans, Geo. W., & Co., Alaska bldg
Hofius Steel & Equipment Co. (Iron, Steel, Spikes, Bolts, Locomotives, Passenger, Freight & Ore Cars, Steel Rails, Cast Iron Pipe, etc.), Morrison, Phillips, Bailey bldg
Railway & Steel Supply Co., Alaska bldg
Vulcan Iron Works
SPOKANE—FAIRBANKS, MORSE & Franklin & Monroe, Chicago. (See adv. index, end of book)
TACOMA—Crane Co. index, end of book
Washington Hardware Co.

WEST VIRGINIA.

HUNTINGTON—Miller Supply Co.

Railroad Ties

(See Ties, Poles & Posts.)

Railroad Ties (Steel)

(See Ties, Steel Railroad.)

Railroad Velocipedes

(See Cars, Velocipede)

Railroad Water Station Builders

(See Water Columns or Stations, Railroad.)

Rails (Barn Door)

Brewer Bros. (Wrought), 614 Filbert, Phila., Pa.
Cronk & Carrier Mfg. Co., Elmira, N. Y.
Hunt, Helm, Ferris & Co. ("Harvard" Steel),
Lawrence Bros., Sterling, Ill. Harvard, Ill.
National Mfg. Co., Sterling, Ill.
New England Butt Co., Providence, R. I.
Prouty, T. C. Co. (Ltd.), Albion, Mich.
RICHARDS MFG. CO., Aurora, Ill.
(See adv. index & branch offices, end of book)
Stowell Mfg. & Foundry Co. (Parlor Door & Hay Carrier), South Milwaukee, Wis.

Rails (Door)

Bridgeport Brass Co., Bridgeport, Conn., & 19 Murray, New York
Kupferle, Jno. C. (Barn & Door, Sliding Door, etc.), St. Louis, Mo.
Peck, Stow & Wilcox Co., Southington, Conn.
Peters, Jas. & Son (Wrought Iron), 1934 N Front, Phila., Pa.
Plume & Atwood Mfg. Co., Waterbury, Conn., & 29 Murray, N. Y.
Reading Hardware Co., Reading, Pa.
Rome Brass & Copper Co., Rome, N. Y.
Russell & Erwin Mfg. Co., New Britain, Conn., & 43 Chambers, N. Y.
STANLEY WORKS (Wrought Steel), New Britain, Conn., & 79 Chambers, New York. (See adv. index, end of book)
Stowell Mfg. & Foundry Co. (Steel), South Milwaukee, Wis.

UNION EQUIPMENT AND BRONZE CO.

520 W 36th, N. Y. (See adv. outside stencil)

The W. M. Pattison Supply Co.
MACHINERY AND SUPPLIES
For Railroads, Contractors and Machine Shops
PIPE, FITTINGS, VALVES, RADIATORS, Etc.
CLEVELAND, OHIO

Waterbury Brass Goods Corp'n, Waterbury, Conn.
 Wharton, Wm., Jr., & Co. (Inc.), 25th & Wash'n av, Phila., Pa.
WILCOX MFG. CO., Aurora, Ill.
 (See adv. index, end of book)

Rails (Girder & High Tee)

Cambria Steel Co., Arcade bldg, Phila., Pa.
 Lorain Steel Co., Penna bldg, Phila., Pa., & Johnstown, Pa.
 Penna Steel Co., Girard bldg, Phila., Pa.

Rails (Hand and Foot)

BIGELOW, CHENEY WIRE WORKS,
 Springfield, Mass. (See adv. index, end of book)

CITY FORGE & IRON WORKS (Andrew Plocher, Prop.), Brass, Dayton, O. (See adv. index, end of book)
 Detroit Shipbuilding Co. (Brass Dept.), Detroit, Mich.

SMITH, F. P. WIRE & IRON WORKS,
 100 Lake, Chicago, Ill. (See adv. index, end of book)

UNION EQUIPMENT AND BRONZE CO.
 520 W 36th, N. Y. (See adv. outside stencil)
 Western Brass Mfg. Works (Brass & Bronze), 21st & Rockwell, Chicago, Ill

Rails (Light)

Atlanta Steel Hoop Co. (Steel 16 to 40 lbs.), Atlanta, Ga.
 Baumgarten, A. F. & Bros. (Steel), Farmers' Bank bldg, Pittsburg, Pa.
 Bethlehem Steel Co., South Bethlehem, Pa., & 100 B'way, New York
 Buffalo Steel Co. (Bessemer Steel 12 to 30, inclusive), Tonawanda, Pa.
CAREY, GEO. H. (Jobber), 1 B'way, New York. (See adv. index, end of book)
 Carnegie Steel Co., Carnegie bldg, Pittsburg, Pa.
 Clearfield Steel & Iron Co. (Iron & Steel), Empire bldg, Pittsburg, Pa. Mills: Clearfield.
 Colorado Fuel & Iron Co., Denver, Col. Pa.
 Fairmount Steel Co. (Up to 50 lbs.), Fairmount, W. Va.
 Hirsch Rolling Mill Co., St. Louis, Mo.
 Huntington Rail Mfg. Co., Huntington, W. Va.
 Illinois Steel Co., The Rookery, Chicago, Ill.
 Jones & Laughlin Steel Co. (up to 40 lbs.), Pittsburg, Pa.
KOPPEL, ARTHUR CO., 68 Broad, New York. (See adv. below; branch offices, end of book)

MANUFACTURERS OF

COMPLETE INDUSTRIAL AND PORTABLE RAILROADS

A LARGE STOCK

— OF —

Rails, Steel Ties, Track, Portable Track, Switches, Frogs, Turntables, Wheels, Axles, Crossings, Spare Parts, Locomotives, Etc.

WRITE FOR CATALOG "M"

ARTHUR KOPPEL COMPANY

66-68 Broad Street, New York
1639 Monadnock Blk., Chicago
Machesney Bldg., Pittsburgh
Chronicle Bldg., San Francisco
Works at Koppel, Beaver Co., Pa.

Laekawanna Steel Co., 2 Rector, New York
 Maryland Rail Co. (Steel, 12 to 35 lbs.), Cumberland, Md.
 Penna Steel Co., Girard bldg. Phila., Pa.
 Republic Iron & Steel Co., Frick bldg. annex, Pittsburg, Pa.
 standard Chain Co. (12 to 14 lbs.), 301 Ross, Pittsburg, Pa.
 Tennessee Coal, Iron & Railroad Co. (Up to 100 lbs.), Birmingham, Ala.
WATSON, BENJAMIN (Jobber), 66 Beaver, New York. (See adv. index, end of book)
 Weller Rolling Mill & Forge Co. (Light T), Gadsden, Ala.
WIENER, ERNST CO., 68 B'way, New York. (See adv. index, end of book)

Rails (Relaying)

(See Railroad Equipments, Second-hand)

Rails (Sliding Door)

Brewer Bros. (Wrought), 614 Filbert, Phila., Pa.
 Cronk & Carrler Mfg. Co., Elmira, N. Y. Pa.
HUNGERFORD, U. T. BRASS & COP- per Co. (Brass), 497 Pearl, New York
 Penn Hardware Co., Reading, Pa.

UNION EQUIPMENT AND BRONZE CO.
 520 W 36th, N. Y. (See adv. outside stencil)

Rails (Steel)

American Forge & Iron Co. (Mfrs. Agents), 140 W 42d, New York
 Cambria Steel Co. (8 to 100 pounds per yard) Johnstown, Pa.
CAREY, GEO. H. (Jobber), 1 B'way, New York. (See adv. index, end of book)
 Carnegie Steel Co., Carnegie bldg, Pittsburg
 Colorado Fuel & Iron Co., Denver, Col. Pa.
 Illinois Steel Co., Rookery bldg, Chicago, Ill.
KOPPEL, ARTHUR CO. (Jobbers), 68 Broad, New York. (See adv. below; branch offices, end of book)

MANUFACTURERS OF

COMPLETE INDUSTRIAL AND PORTABLE RAILROADS

A LARGE STOCK

— OF —

Rails, Steel Ties, Track, Portable Track, Switches, Frogs, Turntables, Wheels, Axles, Crossings, Spare Parts, Locomotives, Etc.

WRITE FOR CATALOG "M"

ARTHUR KOPPEL COMPANY

66-68 Broad Street, New York
1639 Monadnock Blk., Chicago
Machesney Bldg., Pittsburgh
Chronicle Bldg., San Francisco
Works at Koppel, Beaver Co., Pa.

ackawanna Steel Co., 2 Rector, New York
 orain Steel Co., Penna. bldg, Phila., Pa.
 Maryland Steel Co. (50 lbs. up), Baltimore Md.
 enna Steel Co., Girard bldg, Phila., Pa.
 epublic Iron & Steel Co., Frick bldg. annex, Pittsburg, Pa.
WATSON, BENJAMIN (Jobber), 66 Beaver, New York. (See adv. index, end of book)
WIENER, ERNST CO. (Jobbers), 68 Broad, New York. (See adv. index, end of book)

Rails (Tram)

(See Rails, Light.)

Rails & Hangers (Suspended)

(See Trolleys & Trolley Tracks, Overhead.)

Railway Builders (Marine)

(See Marine Railway Builders.)

*Railway Palace Car Spring Hinges

BOMMER SPRING HINGES

257 to 271 Classon av, Brooklyn, New York.
 (See adv. index, end of book)

Railway Poles

(See Poles, Iron & Steel, Flag & Street.)
 (Also Ties, Poles & Posts.)

*Railway Supplies (Electric)

(See also Trolley Line Materials.)
 (Also Electrical Supplies.)

Allison, Giles S. (Cars, Motors & Equipments), 42 B'way, New York
 American General Engineering Co., 253 B'way, New York
 Anderson, Albert & J. M. Mfg. Co., 287 A, S. Boston, Mass.
 Bailey, F. B. & Co., Betz bldg, Phila., Pa.
 Barbour-Stockwell Co., Cambridgeport, Mass.
 Blissell, F. Co., Toledo, Ohio
 Boston Electric Co., 29 Harrison av, Boston, Mass.
 Brookes-Follis Elec. Corp., San Francisco, Cal.
 Brown, Harold P. (Edison-Brown Plastic Rail Bond), 120 Liberty, N. Y.
 Bunnell, J. H., & Co., 20 Park pl., New York
 Burnet Co., 121 Malden la, N. Y.
 Central Union Brass Co., 11th & Mullanphy, St. Louis, Mo.
 Columbia Machine Works & Malleable Iron Co., 269 Chestnut, Brooklyn, N. Y.
 Columbus Mill & Mine Supply Co., Columbus, O.
 Commercial Electrical Supply Co., 1007 Market, St. Louis, Mo.
 Creaghead Engineering Co., 313 Walnut, Cincinnati, O.
 Dallett & Co. (Cars, Motors & Equipments), Harrison bldg, Phila., Pa.
 Electric Appliance Co., 140 W. Jackson boul., Chicago
 Electric Railway Equipment Co., 1938 W 8th, Cincinnati, O.
 Electric Railway Equipment Co. (Motors & Equipments, etc.), 31st below Chestnut, Phila., Pa.
 Electric Railway & Mfg. Supply Co., 68 1st, San Francisco, Cal.
 Electric Service Supplies Co., 1024 Filbert, Phila., Pa.
 Electric Engineering Co., 21 N 6th, Minneapolis, Minn.
 Electrical Material Co., 221 N Calvert, Baltimore, Md.
 Fitts, F. E. Mfg. & Supply Co., 88 Purchase, Boston, Mass.
 Fox Bros. & Co., 126 Lafayette, New York
 Fuller & Rifenberick (Mfrs Agts.), Williamson bldg, Cleveland, O.
 Barton, W. R. Co., 118 W Jackson boul, Chicago
GENERAL ELECTRIC CO., Sche- nectady, N. Y., & 44 Broad, New York. (See adv. index & branch offices, end of book)
 Handlan-Buck Mfg. Co., 210 N 3d, St. Louis, Mo.
 Hanna, J. A. Co. (Rolling Stock; Sales Agt.), Electric bldg, Cleveland, O.
 Harrison, F. P., Electric & Mfg. Co., 169 South, New York
 Hirsch, Cal & Sons Iron & Rail Co., Wells bldg, St. Louis, Mo.
 Hoyt, Frank, Muskegon, Mich.
 Johns, H. W.-Manville Co., 100 William, New York
 Jones, Jas. Co., Los Angeles, Cal.
 Kerschner, W. R., Allentown, Pa.
 Kinsman Electric & Railway Supply Co., 55 Dey, New York
 Kishner Iron Co., 466 Pioneer, Cincinnati, O.
 Long, Ervin G., 95 Liberty, New York
 Louisville Car Wheel & Railway Supply Co., 308 5th, Louisville, Ky.
 McCartney, Josiah, Bay City, Mich.

RAILROAD SPECIALISTS **ERNST WIENER** FOR ALL INDUSTRIES. •COMPANY•

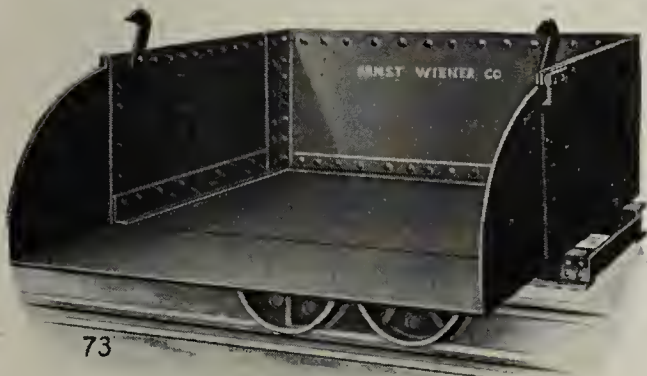
66 B. BROAD STREET, NEW YORK CITY

MANUFACTURERS OF

CARS FOR ALL INDUSTRIAL PURPOSES

ESPECIALLY FOR
CONTRACTORS, BOILER ROOMS, POWER
PLANTS, CONCRETE, MINES,
SMELTERS, Etc.

COAL AND CONTRACTORS' BUCKETS



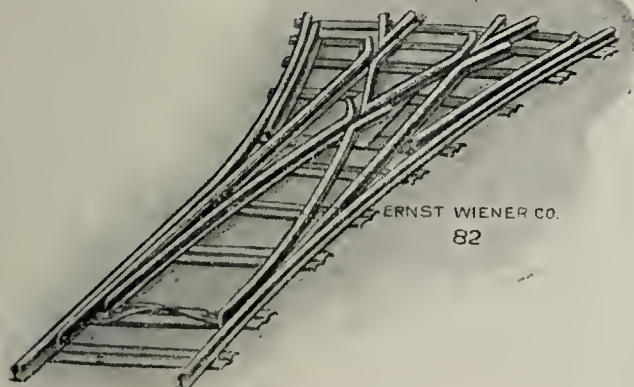
AND OF

INDUSTRIAL TRACK, TRACK LAYOUTS,
SWITCHES, FROGS AND CROSSINGS,
RAILS AND THEIR ACCESSORIES,
TRACK TOOLS AND SUPPLIES.

LARGE STOCK

Ready for PROMPT SHIPMENT from
our Brooklyn (Bush Term) Yards,
or from our works in
Youngstown, Ohio.

PRICES, ESTIMATES AND CATALOG 49
FREE UPON WRITING OUR DEPT. S.



LABOR SAVING APPLIANCES, TOOLS and SUPPLIES

We have the best facilities in this country for furnishing to our subscribers, free of charge, the names and addresses of the leading manufacturers of the latest improved machinery, tools and appliances etc., for working and handling all kinds of metal, wood, stone, slate, earth, minerals, etc., such as:

Air, Gas and Gasoline Compressors

Cranes for all purposes

Pneumatic Tools and Appliances

Derricks, Hand or Power

Hoists, Hand or Power

Elevators, Electric, Hydraulic, etc.

Excavators and Dredges

Conveyors for all kinds of materials

Castings of all kinds

Steam Shovels

Machine or Hand Tools

Machinery for all Purposes

Engines for all Purposes

Electric Generators and Motors

Drills for all Purposes

Power Transmission

Agricultural Implements

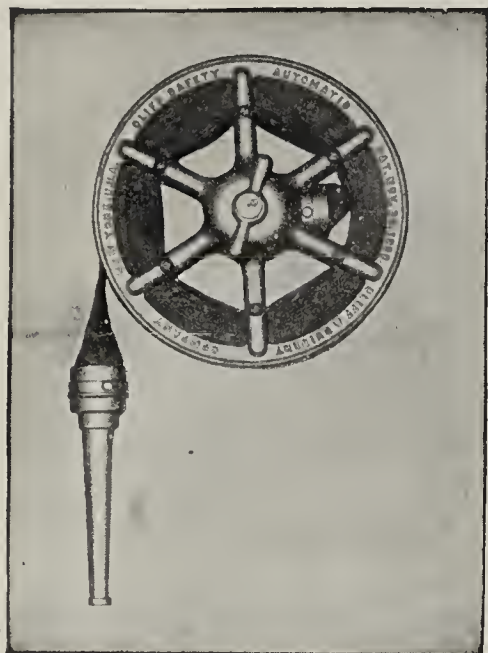
Locomotives, Cars, etc.

Tools of Every Description.

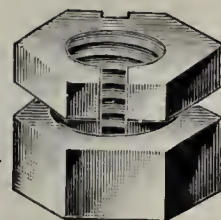
Complete equipment for Railroad, Machine Shop, Foundry, Mine, Quarry Mill, Factory, Electric and Gas Lighting, etc., in fact everything wanted for manufacturing plants or to carry out economically large contracts.

S. E. HENDRICKS CO.,
74 Lafayette St., New York

RAILWAY SPECIALTIES



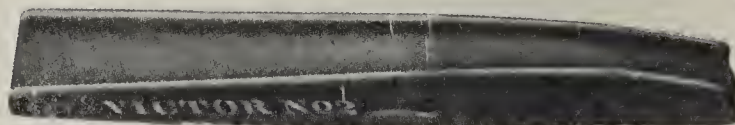
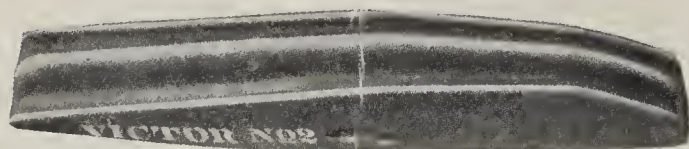
SELLING AGENTS FOR
 WESTERN MALLEABLE IRON BRAKE JAW
 DUNHAM HOPPER DOOR
 PERFECT PRESSED STEEL CAR REPLACER
 VICTOR CAST STEEL CAR REPLACER
 COLUMBIA LOCK NUTS
 "IDEAL" DRAW BAR CENTERING DEVICE
 FEASIBLE DROP BRAKE STAFF
 "ALMETL" LUMBER STAKE HOYT FLUSH CAR DOOR



Sole Railroad Agents for CLIFF & GUIBERT AUTOMATIC HOSE REEL

U. S. METAL & MANUFACTURING CO.

25 BROAD STREET, NEW YORK CITY



STEEL RAILS, CARS,
 LOCOMOTIVES,

RAILWAY SUPPLIES

New and Relaying Rails, All Weights and Sections

Frogs, Switches, Crossings, Spikes, Bolts
 and Nuts, Splice Bars, Track Tools, Etc.

New and Rebuilt Locomotives, Passenger, Freight and Merchandise Cars,
 all types, for Steam, Electric, Logging, Mining and Industrial Railroads.

GEORGE H. CAREY, 1 Broadway, N. Y.

ESTABLISHED 1885.

Cable Address, "Torniscon" W. U. or A. I. Codes.

TO OUR ADVERTISERS AND SUBSCRIBERS.

At any time during the year, that you do not find classified in our book the names and addresses of the Manufacturers of any ARTICLE you are in the market to PURCHASE, please write us, giving as complete particulars as possible, and we will always endeavor to render you PROMPT SERVICE in furnishing you the names and addresses of such Manufacturers and without any cost or obligation. This does not include Mailing Lists.

S. E. HENDRICKS CO.

Morris, Elmer P. Co., 51 Dey
Nagel W. G. Electric Co., Toledo, O.
NUTTALL, R. D. CO. (Trolley Bases,
Forks, Wheels, Gears, Pinions, etc.), Fa-
yette & Garrison pl., Pittsburgh, Pa. (See
adv. index, end of book)
Ohio Brass Co., Mansfield, O.
Pacific Coast Mfg. Co., Los Angeles, Cal.
Penna Electrical & Railway Supply Co., Lewis
blk., Pittsburgh, Pa.
Pettingell, Andrew Co., Pearl & Atlantic av.
Boston, Mass.
Post-Glover Elec. Co., 314 W 4th, Cincinnati, O.
Railway Equipment & Supply Co., Kansas City,
Mo.
Railway Electric Equipment Co. (Cars, Motors
& Equipments), Ellicott sq., Buffalo, N. Y.
Ridlon, Frank Co. (Of Every Description), 200
Summer, Boston
Roberts, H. C. Electric Supply Co., 905 Arch.
Philadelphia, Pa.
Shaw Engineering & Mfg. Co., Flatiron bldg.,
New York
Sherburne & Co., 53 Oliver, Boston, Mass.
Somers, Fittler & Todd Co., 327 Water, Pitts-
burg, Pa.
Southern Electric Co., 423 N. Calvert, Balt-
imore, Md.
Stuart-Howland Co., 5 Winthrop Sq., Boston,
Mass.
Traction Equipment Co., 72 Grand av., Brook-
lyn, N. Y.
Van Dorn & Dutton Co., Cleveland, O.
Wendell & MacDuffie, 26 Cortlandt, New York
Wesco Supply Co., 7th & Clark av., St. Louis,
Mo.
Western Electrical Supply Co., 7th & Clark av.,
St. Louis, Mo.
Wood, Guilford S. (Largest Dealer in Dia-
phragms (car) in U. S.), Great Northern
bldg., Chicago, Ill.

Railway Transfer Tables

(See Turn & Transfer Tables)

Railways (Gravity)

Hoshor-Platt Co., 120 Liberty, New York.

Railways (Incline)

(See Stairways, Moving)

Railways (Industrial & Portable)

Apex Equipment Co. (Mfrs. Agts.), 11 B'way,
New York
Atlas Car & Mfg. Co., Cleveland, O.
Buda Foundry & Mfg. Co., Railway Exchange
bldg., Chicago, Ill. Works, Harvey, Ill.
Cagney Bros., 74 B'way, New York
CAREY, GEO. H., 1 B'way, New
York. (See adv. index, end of book)
Cleveland Car Co., West Park, O.
Dayles, Frank, Hennen bldg., New Orleans, La.
Gregg Co. (Ltd.), Newburgh, N. Y.
Hoshor-Platt Co., 120 Liberty, New York
Howe Scale Co. of Illinois, 1315 Wabash av.,
Chicago, Ill.
Hunt, C. W. Co., 45 B'way, New York. Works:
West New Brighton, L. I., N. Y. City
INDIANAPOLIS SWITCH & FROG
Co., Springfield, O.

KOPPEL, ARTHUR CO., 68 Broad, New
York. (See adv. below; branch offices end
end of book)

MANUFACTURERS OF COMPLETE INDUSTRIAL AND PORTABLE RAILROADS A LARGE STOCK — OF —

**Rails, Steel Ties, Track, Port-
able Track, Switches, Frogs,
Turntables, Wheels, Axles,
Crossings, Spare Parts, Loco-
motives, Etc.**

WRITE FOR CATALOG "M"

ARTHUR KOPPEL COMPANY

66-68 Broad Street, New York
1639 Monadnock Blk., Chicago
Machesney Bldg., Pittsburgh
Chronicle Bldg., San Francisco
Works at Koppel, Beaver Co., Pa.

Link Belt Co., W. 39th, cor. Stewart av.,
Chicago, Ill., & 299 B'way, New York
MEAD-MORRISON MFG. CO., Cam-
bridge (Boston), Mass., & 11 B'way, New
York. (See adv. index & branch offices,
end of book)

Mine & Smelter Supply Co., Denver, Col.
Peterler Portable Railway Mfg. Co., Minne-
apolis, Minn.
RUSSEL WHEEL & FOUNDRY CO.,
Detroit, Mich. (See adv. index, end of book)
Treadwell, M. H. & Co., 90 West, N. Y.
Turl's, John Sons (Inc.), 26 Cortlandt, New
York. Works, Newburgh, N. Y.
Wharton, Wm., Jr., & Co., 25th & Wash'n av.,
Union Iron Works, Hoboken, N. J.
WHITING FOUNDRY EQUIPMENT
Co. (for Foundries, etc.), Harvey, Ill. (See
adv. index & branch offices, end of book)
WIENER, ERNST CO., 68 Broad,
New York. (See adv. index, end of book)
Wonham-Magor Engineering Works, 29
B'way, New York

Railways (Marine)

(See Dry Docks & Marine Railways)

Railways (Miniature)

(See Locomotives & Railways, Miniature)

Railways (Scenic)

(See Locomotives & Railways, Miniature.)

Rake & Tedder Teeth

Akron Machine Co. (Rake Teeth), Akron, O.
Cambria Steel Co. (Gautier Dept.), Johnstown,
Pa., & Arcade bldg., Phila., Pa.
Harrow Spring Co., Kalamazoo, Mich.
Herschel, R. Mfg. Co., Peoria, Ill.
Mason, F. C. & Co., St. Johns, Mich.
Morgan Spring Co. (Tedder Forks), Worcester,
Mass.
Whitman & Barnes Mfg. Co., West Pullman,
Chicago & Akron, O.

Rakes (Asphalt or Tar)

American Fork & Hoe Co. (Steel), Main Of-
fice, Cleveland, O.
Contractors' Tool Co., 704 Arch, Phila., Pa.

Rakes (Drag)

Foster & Williams Mfg. Co., Racine, Wis.
Patterson, D. S. & Son, Brookfield, Vt.

Rakes (Garden or Lawn, Etc.)

Alexander & Perkins, Sunapee, N. H.
American Fork & Hoe Co., Main Office, Cleve-
land, O.
Bartlett, L. D. & Son Co., South Tamworth,
N. H.
Brown, Hinman & Huntington Co. (Steel &
Malleable Iron Road, Potato, etc.), Mem-
phis, Tenn.
Champion Lawn Rake Co., Canton, O.
Continental Tool Co. (Solid Steel; also Mallea-
ble), Frankfort, N. Y.
Cronk & Carrier Mfg. Co. (Brace wrought steel
& malleable iron), Elmira, N. Y.
Derby & Ball, Bellows Falls, Vt.
Geneva Tool Co., Geneva, O.
Gibbs Mfg. Co., Canton, O.
Harriman Hoe & Tool Co., Harriman, Tenn.
Heath, Morgan, Union, N. Y.
Iowa Farming Tool Co., Fort Madison, Ia.
Kohler, F. B. & Co., Canton, O.
Ney Mfg. Co. (Automatic Self-Cleaning Lawn),
Canton, O.
Ney, V. L. Co. ("Champion" Lawn Rakes),
Canton, O.
Piqua Handle & Mfg. Co. (Steel Weldless
& Malleable Iron), Piqua, O.
Sleeper, B. R., Sunapee, N. H.
Swineford, G. A., Co. ("King," "Warren,"
"Star" Wire Automatic, etc.), Canton, O.
Twin Rake Mfg. Co., Ladoga, Ind.
Union Furnace Mfg. Co. (Malleable Iron),
Union Furnace, Pa.
Wellman, H. E., Westminster, W. Va.
Wheeling Hinge Co., Wheeling, W. Va.
Witherington & Cooley Mfg. Co., Jackson,
Mich.

Rakes (Gas Retort)

American Fork & Hoe Co. Main office, Cleve-
land, O.; export office, 11 B'way, New
York

Rakes (Hand, Hay)

Benton Mfg. Co., Charlotte, Mich.
Burton Handle Co., Burton, O.
Continental Tool Co. (Bow Rakes), Frank-
fort, N. Y.
Garfield, D. M., Tyringham, Mass.
Geneva Tool Co., Geneva, O.
Howard Iron & Tool Co. (Solid Steel Weld-
less), Bellefonte, Pa.
Iowa Farming Tool Co., Fort Madison, Iowa
Rogers Rake Co., New Hartford, Conn.
Rugg Mfg. Co. (Also Drag), Greenfield, Mass.
Swineford, G. A., Co., Canton, O.
Thomas Mfg Co., Springfield, O.

Rakes (Revolving, Hay)

Burton Handle Co., Burton, O.
Hughes & Smythe, Galena, O.
Ohio Rake Co., Dayton, O.
Reed & Rogers, Vernon, Ind.
Sterling Mfg. Co., Sterling, Ill.

Rakes (Side Delivery, Hay)

Chambers-Bering-Quinlan Co., Decatur, Ill.
Dain Mfg. Co., Ottumwa, Iowa
Deere & Mansur Co., Moline, Ill.
International Harvester Co. of America, 7
Monroe, Chicago, Ill., & Auburn, N. Y.
Keystone Mfg. Co., Sterling, Ill.
Sterling Mfg. Co., Sterling, Ill.
Thomas Mfg. Co., Springfield, O.

Rakes (Stacker for Threshers)

Frick Co., Waynesboro, Pa.
Merriam, I. Z., Whitewater, Wis.
Port Huron Engine & Thresher Co., Port Hu-
ron, Mich.

Rakes (Stalk)

Brown, Geo. W. & Co., Galesburg, Ill.
Hopkins, W. T., Paxton, Ill.
Peoria Drill & Seeder Co. ("Glendale"), Peo-
ria, Ill.
Selby, Starr & Co., Peoria, Ill.
Sheer, Eugene, Lincoln, Ill.

**When writing to firms
whose names appear
in this book please
mention**

**HENDRICKS'
COMMERCIAL
REGISTER.**

Rakes (Sulky, Hay)

Acme Harvester Co., Peoria, Ill.
 Adriance, Platt & Co. (Steel Wheels), Poughkeepsie, N. Y.
 Albright, J. Hudson, Mifflinburg, Pa.
 Ames Plow Co., Quincy Hall, Boston
 Apex Mfg. Co., Bloomington, Ill.
 Aultman, Miller, Buckeye Co., Akron, O.
 Belcher & Taylor Agricultural Tool Co., Chippewa Falls, Mass.
 Bradley, David Mfg. Co., Bradley, Ill.
 Brown, Geo. W. & Co., Galesburg, Ill.
 Buffalo Pitts Co., Buffalo, N. Y.
 Chapinville Wheel Co., Poughkeepsie, N. Y.
 Clipper Chilled Plow Co., Elmira, N. Y.
 Comstock, Geo. S. ("Novelty"), Mechanicsburg, Pa.
 Deere & Mansur Co., Moline, Ill.
 Deucher, H. P. Co., Hamilton, O.
 Emerson Mfg. Co., Rockford, Ill.
 Empire Drill Co., Shortsville, N. Y.
 Farquhar, A. B. Co., York, Pa.
 Fleming & Sons' Mfg. Co., Huntsville, Mo.
 Fond du Lac Implement Co., Fond du Lac, Wis.
 Gale Mfg. Co., Albion, Mich.
 Grand Detour Plow Co., Dixon, Ill.
 Hocking Valley Mfg. Co., Lancaster, O.
 Howell, R. R. & Co., Minneapolis, Minn.
 International Harvester Co. of America (Self & Hand Dump), 7 Monroe, Chicago, Ill.
 Johnston Harvester Co., Batavia, Ill.
 Long & Allstatter Co. (Hand or Horse Dump) Hamilton, O.
 Messinger Mfg. Co. ("Steel King Self Dumping"), Tatamy, Pa.
 Moline Plow Co., Moline, Ill.
 Ohio Rake Co., Dayton, O.
 Patten, Frank C. Co., Sycamore, Ill.
 Patten & Stafford Co. ("New York Champion"), Canastota, N. Y.
 Plattner Implement Co., Denver, Colo.
 Racine-Sattley Co. (Self & Hand Dump), Springfield, Ill.
 Rockford Mfg. Co. ("Ellwood"), Rockford, Ill.
 Richardson Mfg. Co., Worcester, Mass.
 Rowell, J. S., Mfg. Co. (Self Dump), Beaver Dam, Wis.
 Rude Bros. Mfg. Co., Liberty, Ind.
 Smith & Sons Mfg. Co. (2 & 3-Wheel Sweep), Kansas City, Mo.
 Sterling Mfg. Co., Sterling, Ill.
 Thomas Mfg. Co., Springfield, O.
 Thompson, J. & Sons Mfg. Co., Beloit, Wis.
 Van Brunt Mfg. Co., Horicon, Wis.
 Warder, Bushnell & Glessner Co., Springfield, O.
 Wiard Plow Co., Batavia, N. Y.
 Williams Bros. (Self & Hand Dumping), Ithaca, N. Y.
 Wood, W. A. Mowing & Reaping Machine Co., Hoosick Falls, N. Y.

Rakes (Sweep)

Acme Harvester Co. (Sweep), Peoria, Ill.
 Barley, Thos. K., Sedalia, Mo.
 Benicia Agricultural Works (Buck Rake), Benicia, Cal.
 Dain Mfg. Co. (Automatic Stackers), Ottumwa, Ia.
 Eureka Mfg. Co., Charleston, Ia.
 Famous Mfg. Co. (Peerless Sweep, Champion Buck), East Chicago, Ind.
 Farm Tool Mfg. Co., Carrollton, Mo.
 Fleming & Sons Mfg. Co., Huntsville, Mo.
 Foster & Williams Mfg. Co. (Balance Pivot Wheel Sweep), Racine, Wis.
 Grand Detour Plow Co., Dixon, Ill.
 Howell, R. R. & Co. (Stacker Rake), Minneapolis, Minn.
 International Harvester Co. of America, 7 Monroe, Chicago, Ill.
 Osborne Plant, Auburn, N. Y.
 Jackson, Byron Machine Works (Sweep), San Francisco, Cal.
 Jenkins Hay Rake & Stacker Co., Browning, Mo.
 Kansas City Hay Press Co. (Stacker & Rake), Kansas City, Mo.
 Loudon Machinery Co. (Rickers), Fairfield, Ia.
 McCall Mfg. Co., Moberly, Mo.
 Martin-Anderson Co., Omaha, Neb.
 Plattner Implement Co., Denver, Colo.
 Porter, J. B. Co. (Rickers), Ottawa, Ill.
 Tait, F. B. Mfg. Co. (Single Tongue), Decatur, Ill.

Rammers (Foundry)

(See also Pneumatic Sand Rammers.)

Barnett, Oscar Foundry Co. (Bench & Floor), Newark, N. J.
 Brown & Sharpe Mfg. Co. (Rubber Tipped), Providence, R. I.

Doscher Plane & Tool Co. (Moulders' Bench), Saugatuck, Conn.
 Hellenberg & Son (Moulders' Bench), Coldwater, Mich.
OSBORN MFG. CO., 5401 Hamilton
 av, N. E., Cleveland, O. (See adv. index, end of book)
 Piqua Handle & Mfg. Co. (Also Moulder Bench Rammers), Piqua, O.
 Sandusky Tool Co., Sandusky, O.
 Union Elevator & Machine Co., 144 Ontario, Chicago, Ill.
 Woodstock Hardwood & Spool Mfg. Co. (Moulders' Wooden Rammers), Charleston, S. C.

Rammers (Sand)

(See also Pneumatic Sand Rammers.)

Pollard, Jos. G. (Cast Iron, Ash Handle), 141 Raymond, Brooklyn, N. Y.

Rams (Hydraulic)

(See Hydraulic Rams)

Range Fenders

Eastwood Wire Mfg. Co., Belleville, N. J.

Range Linings

(See Stove Linings.)

Ranges (Acetyline Gas)

National Lighting & Heating Co., Cleveland, Ohio

Ranges (French Cooking)

(See Cooking Apparatus)

Ranges (Galley)

Born Steel Range Co., 403 Erie, Cleveland, O.
DUPARQUET, HUOT & MONEUSE
 Co. (Steel), 43 Wooster, New York. (See adv. index & branch offices, end of book)
 Russell & Watson, 145 Main, Buffalo, N. Y.
 Stamford Foundry Co. ("Shipmate"), Stamford, Conn.

Ranges (Gas)

(See Stoves & Heaters & Ranges, Gas.)

Ranges (Kettle)

Weaver Mfg. Co. ("Perfection"), New Oxford, Pa.

Ranges (Portable & Stationary)

See Stove Mfrs.
 Also Ranges, Steel.
 Also Cooking Apparatus.

Ranges (Steel)

(See also Cooking Apparatus.)

American Stove Co. ("Quick Meal," "Jewell"), 414 N 6th, St. Louis, Mo.
 Bonnet-Nance Stove Co., Chicago Heights, Ill.
 Born Steel Range Co., 1984 Pearl, Cleveland, Ohio
 Bramhall, Deane Co., 264 Water, N. Y.
 Bramhall Range Co., 81 Market, Chicago, Ill.
 Bridgeford & Co. ("Wrought Steel"), Louisville, Ky.
 Buckstaff Bros. Mfg. Co., Lincoln, Neb.
 Burton Range Co., 115 W 5th, Cincinnati, O.
 Carmichael Range Co., 195 Kinzie, Chicago, Ill.
 Century Post Co., Tecumseh, Mich.
 Clad, V. & Sons, 239 S 12th, Phila., Pa.
 Comstock-Castle Stove Co., Quincy, Ill.
 Crane, W. M. Co. ("Vulcan" "Perfect"), 1133 B'way, N. Y.
 Cribben & Sexton Co., 52 Erie, Chicago, Ill.
DUPARQUET, HUOT & MONEUSE CO.,
 43 Wooster, N. Y. (See adv. index & branch offices, end of book)
 Dauntless Mfg. Co., Beaver Dam, Wis.
 Eclipse Stove Co., Mansfield, O.
 Excelsior Stove & Mfg. Co. (Wrought Steel), Quincy, Ill.
 Fischer Leaf Co., 1438 High av, Louisville, Ky.
 Fisher, Wm. G. Stove & Range Co., 325 Race, Cincinnati, O.

Franke, H. Steel Range Co., 1911 Harvard, N'gh, Cleveland, O.
 Globe Stove & Range Co., Kokomo, Ind.
 Hall Bros. Co., Lincoln, Neb.
 Hess, Snyder Co. (Boomer), Massillon, O.
 Home Stove Co., Indianapolis, Ind.
 Hutchinson Bros., 116 N Howard, Baltimore, Md.
 Jls. John G. & Co., 814 Kearny San Francisco, Cal.
 Ley, Jno. P., 244 Water, N. Y.
 Lotze's, A Sons & Co., Cincinnati, O.
 M. & D. Range Co., 100 Lake av, Chicago, Ill.
 Majestic Mfg. Co., 2014 Morgan, St. Louis, Mo., & 45 Cliff, N. Y.
 Malleable Steel Range Mfg. Co., South Bend, Ind.
 Michigan Stove Co. ("Garland"), Detroit, Mich., & Chicago, Ill.
 Miller, W. Range & Furnace Co. (Portable), 127 E 5th, Cincinnati, O.
 Orr, Painter & Co. ("Cheerful Sunshine," "Domestic Sunshine"), Reading, Pa.
 Peninsular Stove Co., 10th & W. Fort., Detroit, Mich.
 Portsmouth Stove & Range Co., Portsmouth, O.
 Resor, Wm. & Co., C. H. & D. Ry., north of Gest, Cincinnati, O.
 Rubel & Co., 82 Lake, Chicago, Ill.
 Schill Bros. Co., Crestline, O.
 Sheppard, Isaac A. & Co., 1801 N 4th, Philadelphia, Pa.
 Standard Foundry & Mfg. Co., Cleveland, O.
 Star Shovel & Range Co., Vincennes, Ind.
 Stearnes Steel Range Co., 188 Lake, Chicago, Ill.
 Toledo Stove & Range Co. ("Gem"), Toledo, O.
 Traplin, Rice & Co. ("Climax"), Akron, O.
 Van, John Range Co. (for Families, Hotels & Institutions), Cincinnati, O.
 Walker & Pratt Mfg. Co., 31 Union, Boston, Mass.
 Warren Hardware Co., Warren, O.
 Wilson Steel Range Co., Belleville, Ill.
 Wrought Iron Range Co., 1901 Washington av, St. Louis, Mo.

*Ranges (Yacht)

DUPARQUET, HUOT & MONEUSE
 Co. (Steel), 43 Wooster, New York. (See adv. index & branch offices, end of book)

Rapping Plates & Lifting Screws

Timmis & Clissold, Bound Brook, N. J.

Rasps (Horse)

(See also File & Rasp Mfrs.)

Heller Bros. Co., 879 Mt. Pleasant av, Newark, N. J.
 Nicholson File Co., Providence, R. I.

Ratchets (Deck Sash)

Adams & Westlake Co., Ontario & N Franklin, Chicago, Ill.

Ratchets (Fence)

Bowen Cable Stay Fence Co. ("Miller Ideal"), Norwalk, O.
 Chain Stay Fence Co., Sterling, Ill.
 Cyclone Woven Wire Fence Co. ("Cyclone"), Holly, Mich.
 Gem Wire Fence Co. (Malleable Iron), Pontiac, Mich.
 Kokomo Fence Machine Co., Kokomo, Mich.
 National Novelty Corp'n ("Brighton"), 826 B'way, New York
 Novelty Mfg Co. (Steel), Jackson, Mich.
 Schriver, O. P. & Co. ("I. X. L. Wire Fence"), 208 Elm, Cincinnati, O.
 Universal Ratchet Co. ("Universal" Wire Fence Ratchet & Tightener), Detroit, Mich.

Ratchets (Packer)

ASHCROFT MFG. CO., THE, 85, 87,
 89 Liberty, New York. Works, Bridgeport, Conn. (See adv. index, end of book)
 Irving Mfg. & Tool Co. (J. F. McCoy Co. Prop.) ("Weston's"), 159 Chambers, New York
 Lovejoy Tool Works, 90 Ohio, Chicago, Ill.

Rattan Seat Covering (Canvas lined)

Hale & Kilburn Mfg. Co., 48 N 6th, Phila, Pa.

Rattan & Reed Works

American Rattan & Reed Mfg Co. (Car Seating, Webbing, etc.), Kingsland & Norman avs, Brooklyn, N. Y.
Hartshorn, C. H., Gardner, Mass.
Heywood Bros. & Wakefield Co., Gardner, Mass.
Jenkins, A. D. & Co., Wakefield, Mass.
Lloyd Mfg. Co. (Rattan & Reed Chairs), Minneapolis, Minn.
Wakefield Mfg. Co. (Willow goods also), Wakefield, Mass.

Rattans, Reeds & Chair Cane

American Rattan & Reed Mfg. Co. (also Rattan Webbing, etc.), Norman & Kingsland av, Brooklyn, N. Y.
Gerdau, Otto Co., 83 Murray, New York.

Rattlers (Flue)

Mann-McCann Co. ("Westmark"), Fisher bldg, Chicago, Ill.

*Rattlers (Foundry)

WHITING FOUNDRY EQUIPMENT
Co., Harvey, Ill. (See adv. index and branch offices, end of book)

Rattlers (Nail)

Miller's, H. J. Sons, Bridgewater, Mass.
Perkins, Henry Co., Bridgewater, Miss.

Rawbone (Boiled)

Cooper's, Peter Glue Factory, 13 Burling slip, N. Y.

Rawbone (Granulated)

(See also Bone, Black.)

Armour Fertilizer Works, 205 LaSalle, Chicago, Ill.
Listers Agricultural Chemical Works, ft. W 39th, N. Y.
Rogers & Hubbard Co., Middletown, Conn.
Taylor, Geo. F., 80 Fine, New York
York Chemical Works, York, Pa.

Razor Mfrs.

Challenge Cutlery Corporation, Bridgeport, Conn.
Clausse Shear Co., Fremont, O.
Geneva Cutlery Co. ("Seneca Chief," 300 different styles), Geneva, N. Y.
Novelty Cutlery Co., Canton, Ohio.
Schatt & Morgan Cutlery Co., Titusville, Pa.
Silver Plate Cutlery Co. (Special Etching), Derby, Conn.
Wiss, J. & Sons Co., Newark, N. J.

Razzle Dazzles

Herschell-Spillman Co., No. Tonawanda, N. Y.

Reamers

(Under this heading see sub-classification.)
(See also Taps, Various Kinds.)

Billings & Spencer Co., Hartford, Conn.
Buck Bros. (Square, Octagon & Half Round), Millbury, Mass.
Buck, Chas., Millbury, Mass.
Butterfield & Co., Derby Line, Vt.
Card, S. W. Mfg. Co., Mansfield, Mass.
Chicago Screw Co. (Taper Pin), 2 N Canal, Chicago, Ill.
Cincinnati Screw & Tap Co., 2442 Beekman, Cincinnati, O.
Clough, R. M., Tolland, Conn.
Cleveland Twist Drill Co., Cleveland, O.
Detroit Twist Drill Co., Detroit, Mich.
GISHOLT MACHINE CO. ("Gisholt," Inserted Blade, "Solid" Adjustable Arbors), Madison, Wis. (See adv. index & branch offices, end of book)
King, J. M. & Co., Waterford, N. Y.
Lord, L. L. Co., Meadville, Pa.
McCrosky, F. B. Mfg. Co. (Universal), Meadville, Pa.
MORSE TWIST DRILL & MACHINE
Co., New Bedford, Mass. (See adv. index, end of book)
National Machine Tool Co., 208 Lawrence, Cincinnati, O.
National Twist Drill & Tool Co., Detroit, Mich.

New Process Twist Drill Co. (Hot Forged), Taunton, Mass.

Norton Mfg. Co., Chester, Conn.
Pawtucket Mfg. Co., Pawtucket, R. I.
Polk, A. J. & Son, Millersburg, Pa.
Pratt & Whitney Co., Hartford, Conn.
Putnam Machine Co., Fitchburg, Mass.
Rogers, Jno. M. Boat Gauge & Drill Works, Gloucester City, N. J.
Standard Railway Equipment Co., Nat'l Bank of Commerce, St. Louis, Mo.
Standard Tool Co., Cleveland av & P. Ry., Cleveland, O.
Three Rivers Tool Co. ("Matthews," High Speed), Three Rivers, Mich.
Tuck Mfg. Co., Brockton, Mass.
WELLS BROS. CO. ("Little Giant"), Greenfield, Mass. (See adv. index, end of book)
WHITMAN & BARNES MFG. CO., Chicago, Ill. (See adv. index & branch offices, end of book)
Wiedeke, Gustave & Co. (Rivet Hole & Flue), Dayton, O.
Wiley & Russell Mfg. Co., Greenfield, Mass.

Reamers (Adjustable)

American Axe & Tool Co., 253 B'way, N. Y.
Clough, R. M. (Shell & Hand), Tolland, Conn.
LAPOINTE MACHINE TOOL CO., Hudson, Mass. (See adv. index, end of book)
MORSE TWIST DRILL & MACHINE
Co., New Bedford, Mass. (See adv. index, end of book)
Rogers, Jno. M. Boat Gauge & Drill Works, Gloucester City, N. J.
Schellenbach & Radcliffe ("Universal" Machine), Cincinnati, O.
Standard Tool Co., Central av. & P. Ry., Cleveland, O.
Western Tool & Mfg. Co. ("Champion" Universal Machine), Springfield, Ohio

Reamers (Bibb & Bibb Seat)

Lord, L. L. Co. ("Universal," for Cocks, Bihbs, etc.), Meadville, Pa.

Reamers (Bit Brace)

Bramberg, Charles, 91 Cliff, New York
Brubaker, W. L. & Bros. (Taper), Millersburg, Pa.
Detroit Twist Drill Co., Detroit, Mich.
Holroyd & Co., Waterford, N. Y.
Krauter & Co., 577 18th av, Newark, N. J.
Mayhew H. H. Co., Shelburne Falls, Mass.
MORSE TWIST DRILL & MACHINE
Co., New Bedford, Mass. (See adv. index, end of book)
National Twist Drill & Tool Co. ("National" Taper & Fluted), Detroit, Mich.
Polk, A. J. & Son, Millersburg, Pa.
Standard Tool Co., Central av & P. Ry., Cleveland, O.
WELLS BROS. CO. ("Little Giant"), Greenfield, Mass. (See adv. index, end of book)
WHITMAN & BARNES MFG. CO., Chicago, Ill. (See adv. index & branch offices, end of book)
Wiley & Russell Mfg. Co., Greenfield, Mass.

Reamers (Bridge)

MORSE TWIST DRILL & MACHINE
Co., New Bedford, Mass. (See adv. index, end of book)
National Twist Drill & Tool Co. ("National"), Detroit, Mich.
Wiley & Russell Mfg. Co. ("Green River," "Taper"), Greenfield, Mass.

Reamers (Burring)

Lord, L. L. Co. (Spiral Fluted), Meadville, Pa.
Wiley & Russell Mfg. Co. ("Lightning"), Greenfield, Mass.

Reamers (Center)

American Die & Tool Co., Reading, Pa.
Bamberg, Charles, 91 Cliff, New York
Card, S. W. Mfg. Co., Mansfield, Mass.
Cleveland Twist Drill Co., Cleveland, O.
Detroit Twist Drill Co., Detroit, Mich.
MORSE TWIST DRILL & MACHINE
Co., New Bedford, Mass. (See adv. index, end of book)
National Twist Drill & Tool Co., Detroit, Mich.
Pratt & Whitney Co., Hartford, Conn.
Schellenbach & Radcliffe ("Universal" Adjustable Machine), Cincinnati, O.

Standard Tool Co., Central av & P. Ry., Cleveland, O.
WELLS BROS. CO. ("Little Giant"), Greenfield, Mass. (See adv. index, end of book)
WHITMAN & BARNES MFG. CO., Chicago, Ill. (See adv. index & branch offices, end of book)
Wiley & Russell Mfg. Co. ("Lightning"), Greenfield, Mass.

Reamers (Chucking)

Brubaker, W. L. & Bros. (Rose Fluted), Millersburg, Pa.
Cleveland Twist Drill Co., Cleveland, O.
Detroit Twist Drill Co. (Also Rose Chucking), Detroit, Mich.
MORSE TWIST DRILL & MACHINE
Co. (Fluted Rose & Three Groove), New Bedford, Mass. (See adv. index, end of book)
National Twist Drill & Tool Co. ("National" Rose Fluted), Detroit, Mich.
NEW PROCESS TWIST DRILL CO. (Four Groove), Taunton, Mass. (See adv. index, end of book)
Polk, A. J. & Son (Fluted, etc.), Millersburg, Pa.
Pratt & Whitney Co., Hartford, Conn.
Rogers, John M. Boat Gauge & Drill Works, Gloucester City, N. J.
Standard Tool Co., Central av & P. Ry., Cleveland, O.
WELLS BROS. CO. ("Little Giant"), Greenfield, Mass. (See adv. index, end of book)
WHITMAN & BARNES MFG. CO., Chicago, Ill. (See adv. index & branch offices, end of book)
Wiley & Russell Mfg. Co. ("Green River" Spiral Fluted), Greenfield, Mass.

Reamers (Expansion)

Chadwick, G. B. & Co. (The Critchey's), Portsmouth, N. H.
Cleveland Twist Drill Co., Cleveland, O.
Clough, R. M. (Chucking), Tolland, Conn.
MORSE TWIST DRILL & MACHINE
Co., New Bedford, Mass. (See adv. index, end of book)
Standard Tool Co., Central av & P. Ry., Cleveland, O.

Reamers (Hand)

Cleveland Twist Drill Co., Cleveland, O.
Clough, R. M., Tolland, Conn.
Detroit Twist Drill Co., Detroit, Mich.
Krauter & Co., 577 18th av, Newark, N. J.
McCrosky, F. B., 206 Lawrence, Cincinnati, O.
MORSE TWIST DRILL & MACHINE
Co., New Bedford, Mass. (See adv. index, end of book)
National Machine Tool Co., 208 Lawrence, Cincinnati, O.
Polk, A. J. & Son, Millersburg, Pa.
Pratt & Whitney Co., Hartford, Conn.
Shepard Lathe Co., 129 W 2d, Cincinnati, O.
Standard Tool Co., Central av & P. Ry., Cleveland, O.
Western Tool & Mfg. Co. ("Champion" Universal Adjustable), Springfield, O.
Wiley & Russell Mfg. Co., Greenfield, Mass.

Reamers (Locomotive)

MORSE TWIST DRILL & MACHINE
Co., New Bedford, Mass. (See adv. index, end of book)
Wiley & Russell Mfg. Co. ("Green River" Taper), Greenfield, Mass.

*Reamers (Morse Taper)

MORSE TWIST DRILL & MACHINE
Co., New Bedford, Mass. (See adv. index, end of book)

Reamers or Tap Borers (Lead Pipe)

Bernz, Otto, S. 13th & S. Orange av, Newark, N. J.
Enterprise Mfg. Co., 3d & Dauphine, Phila., Pa.
Grabier Mfg. Co., 1925 Broadway, Cleveland, O.
Lowentraut, P. Mfg. Co., 36 Brenner, Newark, N. J.
Osborne, C. S. & Co., 96 Mechanic, Newark, N. J.

Reamers (Pipe)

(See Taps & Reamers, Pipe.)

Reamers (Pneumatic)

(See Pneumatic Reaming & Tapping Drills.)

Reamers (Rivet Hole)

American Die & Tool Co., Reading, Pa.

Reamers (Shell)

Brubaker, W. L. & Bros., Millersburg, Pa.
 Cleveland Twist Drill Co., Cleveland, O.
 Clough, R. M., Tolland, Conn.
 Detroit Twist Drill Co. (Also Rose Shell),
 Detroit, Mich.
 McCrosky, F. B., 206 Lawrence, Cincinnati, O.
MORSE TWIST DRILL & MACHINE
 Co. (Adjustable & Rose), New Bedford,
 Mass. (See adv. index, end of book)
 National Twist Drill & Tool Co. ("National"
 Fluted), Detroit, Mich.
 Polk, A. J. & Son, Millersburg, Pa.
 Pratt & Whitney Co., Hartford, Conn.
 Putnam Machine Co., Fitchburg, Mass.
 Standard Tool Co., Central av & P. Ry.,
 Cleveland, O.
 Western Tool & Mfg. Co. ("Champion" Uni-
 versal Adjustable), Springfield, O.
WHITMAN & BARNES MFG. CO.
 Chicago, Ill. (See adv. index & branch
 offices, end of book)
 Wiley & Russell Mfg. Co. ("Green River"
 Spiral Fluted), Greenfield, Mass.

***Reamers (Solid)**

MORSE TWIST DRILL & MACHINE CO.
 New Bedford, Mass. (See adv. index, end
 of book)

Reamers (Square)

Buck Bros., Millbury, Mass.
 Jennings, C. E. & Co., 42 Murray, New York.
 Works: Chester, Conn.
 Tuck Mfg. Co. (Also Half Round), Brockton,
 Mass.
 Vaughn & Bushnell Mfg. Co., 875 W Carroll
 av, Chicago

Reamers (Taper)

American Die & Tool Co., Reading, Pa.
 Brown & Sharpe Mfg. Co. ("Standard"),
 Providence, R. I.
 Brubaker, W. L. & Bros., Millersburg, Pa.
 Butterfield & Co., Derby Line, Vt.
 Chicago Screw Co. (Taper Pin), 2 N Canal, Chi-
 cago, Ill.
 Cincinnati Screw & Tap Co. (Pin), 2442 Beek-
 man, Cincinnati, O.
 Cleveland Twist Drill Co., Cleveland, O.
 Corbin Screw Corporation (Pin), New Britain,
 Conn.
 Detroit Twist Drill Co. (Also Taper Pin),
 Detroit, Mich.
 Hall, C. F. (Adjustable), Syracuse, N. Y.
 (See adv. index, end of book)
 Holroyd & Co., Waterford, N. Y.
 Lord, L. L. Co. (For Bit Brace, Taper Reamer
 & Ratchet Combination, also Spiral
 Fluted), Meadville, Pa.
MORSE TWIST DRILL & MACHINE
 Co., New Bedford, Mass. (See adv. index,
 end of book)
 National Twist Drill & Tool Co. ("National"
 Taper Pin, etc.), Detroit, Mich.
 Polk, A. J. & Son, Millersburg, Pa.
 Pratt & Whitney Co., Hartford, Conn.
 Rogers, Jno. M. Boat Gauge & Drill Works (Solid
 & Adjustable), Gloucester City, N. J.
 Standard Tool Co., Central av & P. Ry.,
 Cleveland, O.
 Stow Flexible Shaft Co. (Long Taper), N 26th &
 Buttonwood, Phila., Pa.
TERRY & TENCH CO., Inc. (For
 Bridge Builders), Lexington av & 131st
 New York. (See adv. index, end of book)
WELLS BROS. CO. ("Little Giant"),
 Greenfield, Mass. (See adv. index, end of
 book)
WHITMAN & BARNES MFG. CO.
 Chicago, Ill. (See adv. index & branch
 offices, end of book)
 Wiedeke, Gustav & Co. (Rivet Hole, One-Half
 Taper & One-Fourth Straight & Shank),
 Dayton, O.
 Wiley & Russell Mfg. Co. ("Green River"),
 Greenfield, Mass.

Reamers (Valve Reseating)

Lord, L. L. Co. ("Lord"), Meadville, Pa.

Receivers (Ammonia Liquid)

Wolf, Fred W. Co., 141 Rees, Chicago, Ill.

Receptacles

Bryant Electric Co., Bridgeport, Conn.
 Crouse-Hinds Co., Syracuse, N. Y.
 Electric Motor & Equipment Co. ("Brewster-
 Universal"), 13 Beaver, Newark, N. J.
 Freeman, E. H. Electric Co. (Sign, Porcelain
 for Metal Faced Signs), Trenton, N. J.
 General Mfg. & Supply Co. ("W. P."), Tren-
 ton, N. J.
HART MFG. CO. ("Diamond H"),
 103 Allyn, Hartford, Conn. (See adv. in-
 dex & branch offices, end of book)
 Manhattan Electric Mfg. Supply Co. ("Mes-
 co"), Flush bldg, 188 5th av, Chicago, Ill.
 Marshall Electric Mfg. Co. (Flush), 301 Con-
 gress, Boston, Mass.
 Morris Electric Co., Wilmington, Del.
 Pass & Seymour ("P. & S." Waterproof, etc.),
 Solvay
 Trumbull Electric Mfg. Co., Plainville, Conn.
 & New York
 Yost Electric Mfg. Co. (Sign & Cleat), To-
 ledos, Ohio

**Record Holders (Wire Phono-
graph)**

Stanley & Paterson, 93 Liberty, New York
 Syracuse Wire Works, Syracuse, N. Y.

Recorders (Cash)Hough Cash Recorder Co. ("Security"),
Springfield, Mass.***Recorders (Moscrop, Continu-
ous Speed)**

ASHCROFT MFG. CO., THE (For
 Steam, Electric, Cable, Engine & Water
 Motors), 85, 87 & 89 Liberty, New York.
 Works, Bridgeport, Conn. (See adv. in-
 dex & branch offices, end of book)

Recorders (Pressure & Speed)

Central Laboratory Supply Co. ("Vawter"
 Speed), La Fayette, Ind.
SCHAEFFER & BUDENBERG MFG.
 Co., Foxboro, Mass. (See adv. index &
 branch offices, end of book)

Recorders (Railway Speed)

CHICAGO PNEUMATIC TOOL CO.
 Fisher bldg, Chicago, Ill. (See adv. in-
 dex & branch offices, end of book)
 Kent Mfg. Co., Kent, O.

***Recorders (Water Level)**

SCHAEFFER & BUDENBERG MFG. CO.
 Foxboro, Mass. (See adv. index & branch
 offices, end of book)

***Rectifiers (Mercury Arc)**

GENERAL ELECTRIC CO. (for
 changing alternating current to direct cur-
 rent), Schenectady, N. Y., & 44 Broad,
 New York. (See adv. index & branch offices,
 end of book)

Reducing Wheels

(See also Indicators; also Planimeters.)

American Steam Gauge & Valve Mfg. Co.,
 208 Camden, Boston, Mass.
ASHCROFT MFG. CO., THE, 85, 87 &
 89 Liberty, New York. Works, Bridgeport,
 Conn. (See adv. index, end of book)
 Bushnell, John S. Co. ("Ideal"), 123 Liberty,
 N. Y.
CROSBY STEAM GAGE & VALVE CO.,
 97 Oliver, Boston, Mass. (See adv. index
 & branch offices, end of book)
 Dean, H. C. (Holman), Fitchburg, Mass.
 Lippincott Steam Specialty & Supply Co.
 ("Lippincott"), Newark, N. J.

Robertson, Jas. L. & Sons Co. (The Victor),
 204 Fulton, N. Y.
STANDARD GAUGE MFG. CO., Syra-
 cuse, N. Y. (See adv. index & branch
 offices, end of book)
 Star Brass Mfg. Co., 103 E Dedham, Boston,
 Mass.
 Thompson, Richard & Co. ("Ideal"), 126 Lib-
 erty, New York
 Trill Indicator Co. (Faultless), Corry, Pa.
 Watts Regulator Co., Lawrence, Mass.
 Webster & Perks Tool Co. (Aluminum), Spring-
 field, O.

***Reducers (Stroke)**

SCHAEFFER & BUDENBERG MFG.
 Co., Foxboro, Mass. (See adv. index &
 branch offices, end of book)

**Reel & Wire Straighteners
(Combined)**Bowen Cable Stay Fence Co. ("Miller's" for
Wire Fence), Norwalk, O.**Reels (Blasting Cable)**

Anderson, Homer, Peekskill, N. Y.
 Kirk, Arthur & Son, Pittsburgh, Pa.

***Reels (Centrifugal)**

ALLIS-CHALMERS CO., Milwaukee, Wis.
 (See adv. index & branch offices, end of book)

Reels (Chalk Line)

Bliss, R. Mfg. Co., Pawtucket, R. I.
 Doscher Plane & Tool Co., Saugatuck, Conn.
 Evansville Tool Works, Evansville, Ind.
 Moulton, W. F., Manchester, N. H.
 National Novelty Corp'n, 826 B'way, New York
 Sandusky Tool Co., Sandusky, O.
 Stanley Rule & Level Co., New Britain, Conn.
 Union Hardware Co., Torrington, Conn.

Reels (Clothes Line)

Gehl Bros. Mfg. Co., West Bend, Wis.
 Pleuger & Henger Mfg. Co., St. Louis, Mo.
 Rock River Mfg. Co., Dixon, Ill.
 Schreiber & Conchar Mfg. Co., Dubuque, Iowa
 Sommer's, John, Son, Newark, N. J.

Reels (Fire Hose)

(See Reels & Racks, Fire Hose.)

Reels (Fishing)

Gladding, B. F. & Co., So. Ostelie, N. Y.
 Hendryx, Andrew B. Co., New Haven, Conn.
 Martin Automatic Fish Reel Co. ("Martin's"
 Automatic), Mohawk, N. Y.
 Meek, B. F. & Son (Inc.), Louisville, Ky.
 Meisselbach, A. F. & Bro., ("Tak-a-part"),
 Newark, N. J.

Reels (Garden Hose)

Hastings Woodworking Co., Ltd., Hastings,
 Mich.
 Wirt & Knox Mfg. Co. ("Wirt's"), 22 N 4th,
 Phila., Pa.

***Reels (Hexagon)**

ALLIS-CHALMERS CO., Milwaukee, Wis.
 (See adv. index & branch offices, end of book)

Reels (Mason)

Beall, Bros, Inc., Alton, Ill.

Reels (Payout)

ANDERSON, W. H., TOOL & SUPPLY
 Co., 14 Macomb, Detroit, Mich. (See adv.
 index, end of book)
 Cope, T. J., 3244 N 15th, Phila., Pa.
 Dicke Tool Co (& Take Up), Downers Grove,
 Ill.
 Klein, Mathias & Son (And Take Up), 87 W
 Van Buren, Chicago, Ill.
 Minneapolis Electric & Construction Co., 17 S
 4th, Minneapolis, Minn.

Nagel, W. G. Electric Co. ("Ready"), Toledo, Ohio
 Noblett, E. J. Co., Peoria & 121st. Chicago, Ill.
 Oshkosh Logging Tool Co., Oshkosh, Wis.
 Therien Tool Works, 116 1st av, N Minneapolis, Minn.
 Woonsocket Shuttle Co., Woonsocket, R. I.

*Reels (Scalping)

ALLIS-CHALMERS CO., Milwaukee, Wis.
 (See adv. index & branch offices, end of book)

*Reels (Sifter Bolting)

BROWN, A. & F. CO., 25 Dey, New York. Works, Elizabethport, N. J. (See adv. index, end of book)

Reels (Sizing)

Smith, H. J. Mfg. Co., Park av & 130th, New York

*Reels (Steel)

MOSSBERG, FRANK, CO., Attleboro, Mass. (See adv. below)

Reels (Wire)

Blake & Johnson, Waterbury, Conn.
 Hoefer Mfg. Co., Freeport, Ill.
 Koegel, Chas. & Sons, Holyoke, Mass.
 MOSSBERG, FRANK CO., Attleboro, Mass. (See adv. below)
 Morgan Construction Co., Worcester, Mass.
 Richmond Safety Gate Co., Richmond, Ind.
 SHUSTER, F. B. CO. (Adjustable), New Haven, Conn. (See adv. index, end of book)
 Spicer Mfg. Co., New Philadelphia, O. (book)
 Turner, Vaughn & Taylor Co., Cuyahoga Falls, O.

Reels & Racks (Fire Hose)

Allen, W. D. Mfg. Co. ("Bowes," "Dewey," "Hartford" & "Ryerson"), 151 Lake, Chicago, Ill.
 AMERICAN FIRE APPARATUS CO., 1 Madison av, New York. (See adv. index, end of book)
 Ansonia Mfg. Co. ("Simplex"), 355 W 26th, New York
 Clay John H. (Swinging), 1320 Ridge av, Phila., Pa.
 Cliff & Guibert Co., 198 W B'way, New York
 Howard, H. J. M., 113 4 1-2 st, S W, Washington, D. C.
 Manhattan Rubber Mfg. Co. (Swinging), 18 Vesey, New York, & Passaic, N. J.
 Mineralized Rubber Co. (The A. B. C.), 18 Cliff, New York
 N. Y. Coupling & Supply Co., 58 Ann, New York
 Nuhring, Chas. ("Safety" Swinging & Automatic), 907 Walnut, Cincinnati, O.
 Pillman Hose Reel Co. ("Common Sense" & "Boston"), 523 Washington, Boston, Mass.
 Revere Rubber Co. ("Schenck"), 63 Franklin, Boston, Mass.
 Seagrave Co., High & H. V. Ry., Columbus, O.

U. S. METAL & MFG. CO. (Sole Railroad Agents for Cliff & Guibert's Automatic Hose Reels), 25 Broad, New York. (See adv. index, end of book)
 Whitehurst, R. W. Co., Norfolk, Va.
 Wirt & Knox Mfg. Co. ("Hump"), 22 N 4th, Phila., Pa.

Reflectors (Enameled Iron)

Baltimore Enamel & Novelty Co., Allen & Clement, Baltimore, Md.

*Reflectors for Art Galleries

FRINK, ISAAC P., 551 Pearl, New York. (See adv. bottom of page)

Reflectors for Churches, Halls, Etc.

American Reflector Co., 132 N 5th, Phila., Pa.
 American Reflector & Lighting Co., 201 Van Buren, Chicago, Ill.
 Bailey Reflector Co., 547 4th av, Pittsburgh, Pa.
 Boesch Lamp Co., San Francisco, Cal.
 Burger, Alois, 39 E 8th, New York
 Dayton Mfg. Co., Dayton, O.
 Gaumer, John L. Co., 22d & Wood, Phila., Pa.
 Gill Bros. Co. (Silvered), Steubenville, O.
 Gillinder & Sons (Inc.) (Glass), 135 Oxford, Phila., Pa.
 Gleason, E. P. Mfg. Co., 37 Murray, New York
 Glemm & Co., 132 N 5th, Phila., Pa.
 Kneeland Reflector Co., 18 Pitts, Boston, Mass.
 Kraushaar Brass Mfg. Co., 508 Im, St. Louis, Mo.
 McCreary, A. A. ("McCreary"), 136 Liberty, New York
 Mitchell-Vance Co., 836 Broadway, N. Y.
 National X-Ray Reflector Co., 126 Franklin, Chicago, Ill.
 Sunlight Reflector Co., 141 Court, Brooklyn, N. Y.
 Western Electric Co., 259 S Clinton, Chicago, Ill. & 57 Bethune, New York
 Wheeler Reflector Co., 156 Pearl, Boston, Mass.

*Reflectors for Daylight

FRINK, ISAAC P., 551 Pearl, New York. (See adv. bottom of page)

Reflectors (Electric Light)

(See Shades & Reflectors; also Reflectors, various kinds)

Reflectors (Glass & Porcelain)

(See Shades & Reflectors, Glass & Porcelain.)

Reflectors (Metallic)

(See Shades & Reflectors, Metallic.)

Reflectors (Mirror)

(See Shades & Reflectors, Mirror.)

*Reflectors (Oil Lamp)

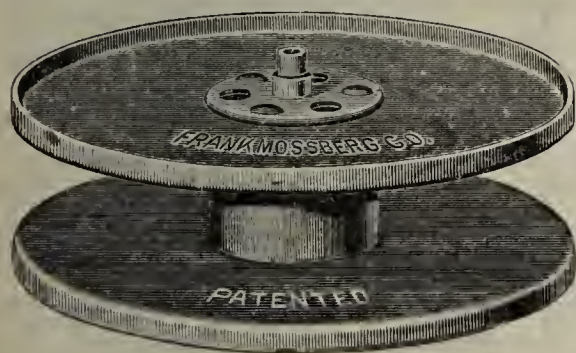
FRINK, ISAAC P., 551 Pearl, New York. (See adv. bottom of page)

*Reflectors (Window)

FRINK, ISAAC P., 551 Pearl, New York. (See adv. bottom of page)

Refrigerators

Alaska Refrigerator Co., Muskegon, Mich.
 Baldwin Refrigerator Co., Burlington, Vt.
 Becker, L. A. Co., Halstead & 22d, Chicago, Ill.
 Belding-Hall Mfg. Co., 213 Canal, New York
 Bowen Mfg. Co., Fond du Lac, Wis.
 Challenge Refrigerator Co., Grand Haven, Mich.
 Chattahoochee Furniture Co., Flowery Branch, Ga.
 Cleveland Store Fixture Co., 4059 St. Clair av, N E, Cleveland, O.
 Cold Storage Refrigerator Co., Eau Claire, Wis.
 Cooper & McKee, 119 Lorimer, Brooklyn, N. Y.
 Dillingham Mfg. Co., Sheboygan, Wis.
 Eclipse Refrigerator Works, Burlington, Vt.
 Eddy, D. & Sons Co., 336 Adams, Boston, Mass.
 Ehrlich, H. & Sons, St. Joseph, Mo.
 Ehlers, Robert J. Co., 432 Lexington av, New York
 Eureka Refrigerator Co., Indianapolis, Ind.
 Grand Rapids Refrigerator Co., Grand Rapids, Mich.
 Gurney Refrigerator Co., Fond du Lac, Wis.
 Hall, A. D. & Son, 33 Spice, Boston, Mass.
 Hall, W. E. & Co., 116 Edward, Phila., Pa.
 Herrmann Furniture & Plumbers Cabinet Wks, 254 Canal, New York
 Holbrah-Dieckmann Refrigerator & Fixture Co., 615 Walnut, St. Louis, Mo.
 Illinois Refrigerator Co., Morrison, Ill.
 Indiana Mfg. Co., Peru, Ind.
 Jewett, John C. Mfg. Co., Buffalo, N. Y.
 Keyser Mfg. Co., Chattanooga, Tenn.
 Knoell, John & Sons (Inc.), 171 Jefferson, Phila., Pa.
 Lorillard Refrigerator Co., 23 W 34th, New York
 McCray Refrigerator Co., Kendallville, Ind.
 Mace, L. H. & Co., 111 E Houston, New York
 Maine Mfg. Co., Nashua, N. H.
 Metal Stamping Co. (Metal, "White Frost"), Jackson, Mich.
 Michigan Barrel Co., Grand Rapids, Mich.
 Monarch Refrigerator Works, Burlington, Vt.
 Monroe Refrigerator Co., Lockland, O.
 Northern Refrigerator Co., Grand Rapids, Mich.
 Ranney Refrigerator Co., Greenville, Mich.
 Rhineland Mfg. Co., Rhineland, Wis.
 Seidel Furniture Mfg. Co., 516 Barracks, New Orleans, La.
 Steinfield Bros., 620 B'way, New York
 Vogt, Peter A., Buffalo, N. Y.
 Western Cabinet & Fixture Mfg. Co., Kansas City, Mo.
 White Enamel Refrigerator Co., St. Paul, Minn.
 Wilke Mfg. Co., Anderson, Ind.
 Wisconsin Refrigerator Co., Eau Claire, Wis.



STAMPED STEEL REELS

ECONOMICAL—INDESTRUCTIBLE—SERVICEABLE

USED FOR VULCANIZING, HANDLING AND SHIPPING ALL SIZES OF WIRE.

CONSTANTLY REPLACING WOODEN REELS

Estimates for Reel Equipment given prompt attention.

FRANK MOSSBERG & CO.

ATTLEBORO, MASS.

FRINK'S REFLECTORS

are specified by leading architects everywhere for Lighting Churches, Halls, Theatres, Hospitals, Schools, Stores, Store Windows, etc.

BOOK OF LIGHT AND ESTIMATE FREE.

I. P. FRINK, 551 Pearl Street, NEW YORK.

Refrigerators (Glass)

Crane Glass & Mfg. Co. (All Glass), Cleveland, Ohio

Refrigerators & Cooling Rooms

Alaska Refrigerator Co., Muskegon, Mich.
 Armor Clad Mfg. Co. (Metallic), Canton, O.
 Baldwin Refrigerator Co., Burlington, Vt.
 Belding-Hall Mfg. Co., 196 Monroe, Chicago, Ill.
 Bowen Mfg. Co., Fond du Lac, Wis.
 Cooper & McKee, 119 Lorimer, Brooklyn, N. Y.
 Eureka Refrigerator Co., Temple & Nowlands avs. Indianapolis, Ind.
 Gloekler, Bernard Co. (Refrigerators Only), 1129 Penn av, Pittsburgh, Pa.
 Grand Rapids Refrigerator Co., Grand Rapids, Mich.
 Gurney Refrigerator Co., Fond du Lac, Wis.
 Heinz & Meunschauer, Superior & Randall, Buffalo, N. Y.
 Herrick Refrigerator & Mfg. Co., 4th & Oakland av, Kansas City, Kans.
 Holmes, C. D., 20 Creek sq, Boston, Mass.
 Illinois Refrigerator Co., Morrison, Ill.
 Indiana Mfg. Co., Peru, Ind.
 Jewett, John C. Mfg. Co., Buffalo, N. Y.
 Jewett Refrigerator Co., 27 Chandler, Buffalo, N. Y.
 Lorillard Refrigerator Co., 23 W 34th, N. Y.
McCRA Y REFRIGERATOR CO. (All Sizes & Constructions), 631 Mill, Kendallville, Ind. (See adv. index & branch offices, end of book)
 Maine Mfg. Co., Nashua, N. H.
 Michigan Barrel Co. (White Enamel), Grand Rapids, Mich.
 Perkins Mfg. Co., St. Paul, Minn.
 Racine Refrigerator & Fixture Co., Racine, Wis.
 Randall, R. T. & Co. (Butchers, etc.), 333 N. 2d, Phila., Pa.
 Ranney Refrigerator Co., Greenville, Mich.
 Rhineland Mfg. Co., Rhineland, Wis.
 Ridgway Refrigerator Co., 707 N Broad, Phila., Pa.
 Stevens, B. A. Co., Toledo, O.
 Weaver, Dan'l & Son, Tamaqua, Pa.
 White Enamel Refrigerator Co. (Bohn Syphon System for Refrigerator & Dining Cars), 1340-1400 University av, St. Paul, Minn.
 Wilke Mfg. Co., Anderson, Ind.
 Wisconsin Refrigerator Co., Eau Claire, Wis.
 Wolf, Sayer & Heller, Fulton & Peoria, Chicago, Ill.

Refrigerators & Cooling Rooms (Glass Lined)

Baldwin Refrigerator Co., Burlington, Vt.
 Cooper & McKee (Opalite), 113 Lorimer, Brooklyn, N. Y.
 Herrick Refrigerator & Mfg. Co., Kansas City, Kans.
 Jewett Refrigerator Co., 27 Chandler, Buffalo, N. Y.
 Lorillard Refrigerator Co., 23 W 34th, N. Y.
McCRA Y REFRIGERATOR CO., 631 Mill, Kendallville, Ind. (See adv. index & branch offices, end of book)
 White Enamel Refrigerator Co., St. Paul, Minn.
 Wilke Mfg. Co., Anderson, Ind.

Refrigerators & Cooling Rooms (Tile Lined)

Baldwin Refrigerator Co., Burlington, Vt.
 Herrick Refrigerator & Mfg. Co., 4th & Oakland av, Kansas City, Kans.
 Jewett Refrigerator Co., 27 Chandler, Buffalo, N. Y.
McCRA Y REFRIGERATOR CO. (Also Opal Tile Lined), 631 Mill, Kendallville, Ind. (See adv. index & branch offices, end of book)
 Stevens, Benj. A. Co., Toledo, O.
 White Enamel Refrigerator Co., St. Paul, Minn.
 Wilke Mfg. Co., Anderson, Ind.

*Refrigerators & Cooling Rooms (White Wood Lined)

McCRA Y REFRIGERATOR CO., 631 Mill, Kendallville, Ind. (See adv. index & branch offices, end of book)

Registers (Autographic)

Autographic Register Co. ("Shoup's"), 10th Clinton & Grand, Hoboken, N. J.
 Egry Autographic Registry Co. (For billing, sales & shipping), 427 Monument av, Dayton, Ohio

Globe Register Co., 417 Sycamore, Cincinnati, Ohio
 Hamilton Autographic Register Co., Hamilton, Ohio
 United Autographic Register Co., 89 W Jackson, Chicago, Ill.

Registers (Car Fare)

International Register Co. (Single & Double), 118 W Jackson houl, Chicago, Ill.
 Morris, Elmer P Co. ("The Monarch"), 51 Dey, New York
 Ohmer Fare Register Co., Dayton, O.
 Recording Fare Register Co. (Tallying & Hand Tally), New Haven, Conn.
 Recording & Computing Machines Co., 816-817 Union Trust bldg, Cincinnati, Ohio
 Ridlon, Frank Co., 220 Summer, Boston, Mass.
 Rooke Register Co., Peoria, Ill.
 Security Register Co., 1512 Clark av, St. Louis, Mo.
 Sterling-Meeker Co., 420 Ogden, Newark, N. J.
 Traction Equipment Co., 74 Cortlandt, New York
 Woodman, R., Mfg. & Supply Co. (Hand), 63 Boston, Mass.

Registers (Cash)

Autographic Register Co., 44 E 23d, New York
 Automatic Cashier Co. ("Automatic" Cashiers), 40 Charter Oak av, Hartford, Conn.
 Boring Cash Register Co., Dayton, O.
 Hough Cash Register Co., Springfield, Mass.
 International Co. ("Hallwood"), Columbus, O.
 National Cash Register Co., Dayton, O.
 Union Computing Machine Co. ("Union"), Trenton, N. J.
 United Autographic Register Co., 312 5th av, Chicago, Ill.
 Whiting Mfg. Co., Northboro, Mass.

Registers (Furnace)

Willowmead Co. ("Torradoor"), East Orange, N. J.

Registers (Gas Heating & Ventilating)

Lawler Water Feed & Damper Regulator Co. (Lawler's Combination), 473 W Broadway, New York

Registers (Grain)

Advance Thresher Co., Battle Creek, Mich.
 Champion Thresher Co., Orrville, O.
 Howell Mfg. Co., Minneapolis, Minn.
 Huber Mfg. Co., Marion, O.
 Miller, Wm. S., Meyersdale, Pa.
 Nesmith, C. L., Washington, Ill.
 Nichols & Shepard Co. (The Smith), Battle Creek, Mich.
 Nurdyke & Marmon Co., Indianapolis, Ind.
 Port Huron Engine & Thresher Co., Port Huron, Mich.

Registers (Hand Tally)

Benton Mfg. Co., 8 Ahingdon sq, New York
 Pratt & Whitney Co., Hartford, Conn.
 Root, C. J., Bristol, Conn.
 Woodman Mfg. & Supply Co., Boston, Mass.

Registers (Hot Air)

American Bell & Foundry, Northville, Mich.
 Auer Register Co., 403 Long av, Cleveland, O.
 Barber Mfg. Co., Ashtabula, O.
 Berry Engineering Co., Chester, Pa.
 Canton Steel Roofing Co. (Sheet Steel), Canton, O.
 Columbian Hardware Co. ("Tubo" Wrought Steel), Coe & Hamilton, Cleveland, O., 168 Church st., New York, N. Y.
 Creamer, W. G. & Co., 96 John, N. Y.
 Detroit Register Co., Detroit, Mich.
 Enterprise Foundry Co., 48 Olean, Rochester, N. Y.
 Excelsior Steel Furnace Co., 40 W Monroe, Chicago, Ill.
 Fanner Mfg. Co., Pearl st, Cleveland, O.
 Ferrosteel Co., 34 Michigan, Cleveland, O., & 92 North, Boston, Mass.
 Forest City F'dry & Mfg. Co., Cleveland, O.
 Hart & Cooley Co. (Wrought Steel), New Britain, Conn.
 Highton, Wm. & Sons, Nashua, N. H.

Ideal Register Metallic & Furniture Co., Detroit, Mich.
 Independent Register Co., 156 Champlain, Cleveland, O.
 Mueller, L. J. Furnace Co. (Steel & Cast Iron, Wall & Floor), Milwaukee, Wis.

Novelty Mfg. Co., Jackson, Mich.
 Phila. Hardware & Malleable Iron Works, Inc. ("Colonial"), 9th & Jeff'n, Phila., Pa.
 Quaker Mfg. Co., Chicago Heights, Ill.
 Richmond Foundry & Machine Co., 517 Market, San Francisco, Cal.
 Robbins & Myers Co., Springfield, O.
 Schreier & Conchar Mfg. Co., Dubuque, Ia.
 Schwab, R. J. & Sons Co. (Sidewalk & Floor), Milwaukee, Wis.
 Standard Foundry & Mfg Co., Cleveland, O.
 Stockhoff Supply Co., St. Louis, Mo.
 Stowell Mfg. & Foundry Co. (Floor & Side Wall), South Milwaukee, Wis.
 Symonds Mfg. Co. (Wall), E. St. Louis, Mo.
 Syracuse Stove Works ("Kernan Welcome"),
 Tuttle & Bailey Mfg. Co., 83 Beekman, New York & Chicago, Ill.
 Union Furnace Mfg. Co. (Pressed Steel, Round & Square), Union Furnace, Pa.
 U. S. Register Co. ("Jones" Side Wall Ventilating), Battle Creek, Mich.
 Walworth Run Foundry Co., 883 Empress, Cleveland, O.
 Waterloo Register Co., Waterloo, Ia.

Registers (Hot Water)

Excelsior Steel Furnace Co., 40 W Monroe, Chicago, Ill.
 Willowmead Co., East Orange, N. J.

Registers (Stove Pipe)

Arcade Mfg. Co., Freeport, Ill.

Regulators

(Under this heading see sub-classifications.)

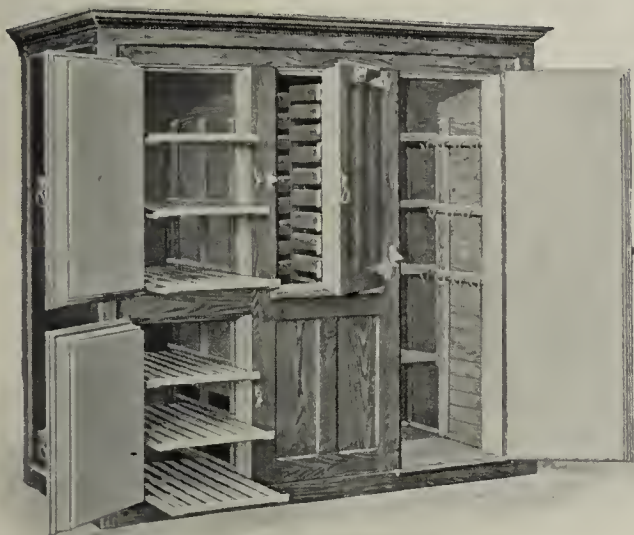
Regulators (Controller, Electric Railway)

Durkin Controller Handle Co., Phila., Pa.

Regulators (Damper)

(See also Furnace Regulators; also Pressure Regulators)

Acton, John (The Aeme), 118 John, Brooklyn, N. Y.
 Atwood & Morrill ("XX" Century"), Salem, Mass.
 Automatic Damper Co., Milwaukee, Wis.
 Berry Engineering Co. ("Berry"), Chester, Pa.
 Blake & Williams, 211 W. 20th, N. Y.
 Burrows Mfg. Co. (Automatic), York, Pa.
 Bushnell, Jno. S. Co. ("Spencer"), 123 Liberty, N. Y.
 Central Machine Works, Lancaster, Pa.
 Collins Mfg. Co. ("Collins" Automatic), Bourse bldg, Phila., Pa.
 Crane Co. (Est. 1855), 519 S. Canal, Chicago, Ill. (See adv. index & branch offices, end of book.)
 Davis, Geo. M. Regulator Co., 144 Milwaukee av, Chicago, Ill.
 D'Este, Julian Co. (Curtis), 24 Canal, Boston, Mass.
 Ford, Thos. P. Co., 407 Broome, New York
 Foskett & Bishop Co., New Haven, Ct.
 Foster Engineering Co. (Automatic), Newark, N. J.
 Gilbert & Barker Mfg. Co. ("Springfield"), Springfield, Mass.
 H. & M. Automatic Regulator Co., Newark, N. J.
 Hess & Barker ("Kellum" Improved), 605 Sansom, Philadelphia, Pa.
 Howard Thermostat Co., Oswego, N. Y.
KELLOGG-MACKAY - CAMERON CO. ("Morgan's," for Steam & Hot Water), Michigan av & 12th, Chicago, Ill. (See adv. index & branch offices, end of book)
 Kelly & Jones Co., 135 Water, Pittsburgh, Pa.
 Kendrick Automatic Damper Regulator Co. ("Kendrick" Automatic), 1321 F. N. W., Washington, D. C.
KEWANEE BOILER CO., Kewanee, Ill., & 169 E Lake, Chicago, Ill. (See adv. index, end of book)
 Kieley & Mueller (Improved "Climax"), 34 W 13th, New York
 Kipp, A., Jr., Ossining, N. Y.
 Kitts Mfg. Co. (For Steam Boilers), Oswego, N. Y.



NO. 114 REFRIGERATOR SUITABLE FOR HOTEL OR RESTAURANT

McCray Refrigerators

(SEE PRECEEDING PAGE)

The McCray Refrigerator meets with the full approval of leading grocers, butchers, hotel men, in fact prominent people in every vocation of life where a refrigerator may be used.

McCray Refrigerators always have been sold on their merits. They are as good to-day as they were yesterday—in some respects better. They will be better to-morrow if we can make them so.

McCray Refrigerators are used by such hotels as the Royal Alexandra, Winnipeg, Man.; Hotel Gramatan, Bronxville, N.Y.; Hotel del Coronado, Coronada Beach, Cal.; Bretton Hall, New York City; Hotel Titchfield, Port Antonio, Jamaica, and many others; also by the U. S. Government using McCray refrigerators on battleships, in hospitals, barracks and forts. McCray Refrigerators are used in the Kitchen and Dining Rooms of the World Famous Plant, The General Electric Works, Schenectady, N. Y.

McCray Refrigerators are used by such Institutions as the University of Michigan Hospital, Jefferson Medical College Hospital of Philadelphia, Gouverneur Hospital of New York, Manhattan State Hospital of New York, and many others.

McCray Refrigerators speak for themselves. Opal Glass, Tile or White Wood Lined. Superior in Construction and Insulation. Unequalled for Economy of Ice.

Hospitals require a system of refrigeration that is as near perfect as it is possible to obtain; clean, perfect circulation of pure cold air and absolutely dry are characteristics of the McCray Patent System.

The McCray Refrigerators are made in all sizes from the smallest refrigerator to the largest cold storage, and for any purpose required. A complete line of stock sizes, also we make a specialty of manufacturing Refrigerators and Coolers for pipe and brine systems, that is "Machine Process of Refrigeration."

Catalogues and Estimates Free. Catalogues No. 46, for Hospitals, Hotels, etc.; No. 81, for Residences; No. 57, for Meat Markets; No. 64, for Grocers; No. 70, for Florists.



NO. 315. REFRIGERATOR FOR MEAT MARKET.

McCray Refrigerator Company,

Branch Offices in many Principal Cities.

631 MILL STREET, KENDALLVILLE, IND.

The Secret of Success of the McCRAY REFRIGERATOR



No. 480. OPAL GLASS LINED

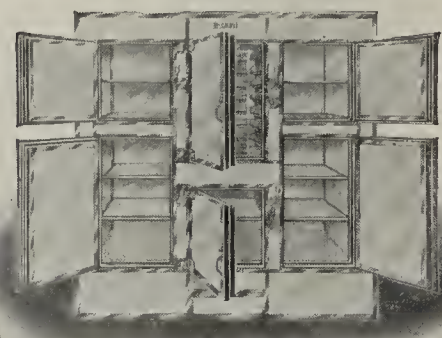
is REAL MERIT.

It is TRUE MERIT of the McCray Refrigerator that places on our list of customers names of many Physicians, Lawyers, Mechanics, Merchants and Professional men who are using McCRAY REFRIGERATORS in their homes and places of business.

It is TRUE MERIT of the McCray System that has placed fine Opal Glass Lined McCray Refrigerators on board several of the finest Battleships and Crusiers of our Navy, like the Virginia, Maryland, St. Louis, Charleston, Nebraska and Montgomery.

It is TRUE MERIT of the McCray System and construction that gave us the contract covering all refrigerator work in the Jefferson Medical College Hospital, at Philadelphia, amounting to many thousands of dollars, the entire job, comprising 17 refrigerators, being strictly high grade and of the most sanitary nature; all these refrigerators being lined with white glazed tile, and the exterior also covered with tile; the largest of these refrigerators is a five room cold storage, 37 feet by 12 feet and 8 feet high.

It is TRUE MERIT of the McCray System that enables us to refer to a great number of jobs of a similar character to the above, and likewise we have furnished thousands of Hotels, Restaurants and Clubs throughout the United States with McCray Refrigerators.



No. 478. OPAL GLASS LINED AND OPAL GLASS EXTERIOR.

BUILT TO ORDER FOR

MR. W. W. CHENEY, CHICAGO

McCRAY REFRIGERATORS

are endorsed by architects and sanitary experts as the BEST refrigerators that can be built—and they are the cheapest in the end, because they use so much less ice than other refrigerators, and soon pay for themselves in saving on ice bills.

It is to your interest to buy a refrigerator that is substantially built and will outlast other makes—a refrigerator that is well insulated and equipped with the proper system to be economical in the use of ice.

The Name—McCRAY

is an absolute guarantee of perfection in refrigeration. For a quarter of a century it has stood alone at the top among manufacturers of refrigerators. Each year has made its position more secure. This pre-eminence is no accident. No article can be a success, even though much money be spent for advertising, unless it possesses true merit. The great success of the McCray refrigerator is proportionate with its extraordinary merit.

(OVER)



A McCRAY REFRIGERATOR ICED FROM OUT DOORS

Lagonda Mfg. Co., Springfield, Ohio.
 Lawler Water Feed & Damper Regulator Co.
 (Hot Water), 473 W B'way, New York
 Lippincott Steam Specialty & Supply Co.,
 Newark, N. J.
 Locke Regulator Co. (Steam), Salem, Mass.
 Louergan, J. E. & Co. ("Kellam" Steam), 211
 Race, Phila., Pa.
 Mason Regulator Co., 158 Summer, Boston, Mass.
 Mueller, H., Mfg. Co., Decatur, Ill.
 Nason Mfg. Co. (Low Pressure), 71 Beekman,
 New York
 Newbury Mfg. Co. (Low Pressure), Mouroe, N. Y.
 Patterson Mfg. Co., 5 So. Front, Baltimore,
 Md.
 Powers Regulator Co., 40 Dearborn, Chicago
 Robertson, Jas. L. & Son (Inc.), 48 Warren,
 New York
 Rutzler, E., 178 Centre, New York
SCHAEFFER & BUDENBERG MFG.
 Co., Foxboro, Mass. (See adv. index &
 branch offices, end of book)
 Spencer Regulator Co., Salem, Mass.
 Standard Steam Specialty Co. ("Utility"), 542
 W B'way, New York
 Steele, Gabriel ("Steele"), Sioux City, Ia.
 Thompson, Richard & Co. ("Thompson &
 Speucer" High or Low Pressure), 126 Lib-
 erty, New York
 Union Boiler Furnace Mouth Protector Co.,
 Elizabeth, N. J.
 Union Water Meter Co., Worcester, Mass.
 Van Auken-Clevauc Co. ("Clevauc"), Yonkers,
 N. Y.
 Watts Regulator Co. ("The Lawrence"), Law-
 rence, Mass.
 Weld, Geo. A. Co., 41 Lincoln, Boston, Mass.
 Western Tube Co., Kewauuee, Ill.
 Wilkinson Mfg. Co., Bridgeport, Pa.

*Regulators (Dynamo Field)

CUTLER-HAMMER CO., Milwaukee,
 Wis. (See adv. index, end of book)

Regulators (Electric)

Electric Regulator Co., 136 Liberty, N. Y.
 Portland Co. (Voltage), Portland, Me.
 Standard Electric Time Co., Waterbury, Conn.
 Waterbury Electric Co. (Heat), Waterbury,
 Conn.

Regulators (Fan Engine)

Davis, G. M. Regulator Co., 144 Milwaukee av,
 Chicago, Ill.
 Foster Engineering Co., Newark, N. J.
 Nason Mfg. Co., 71 Beekman, N. Y.
 Rice, Barton & Fales Machine Co., Worcester,
 Mass.
 Ross Valve Co., Troy, N. Y.
 St. Louis Steam Engine Co., 16 S Commercial,
 St. Louis, Mo.
 Star Brass Mfg. Co., 108 E Dedham, Boston,
 Mass.
 Thomas Brass & Iron Co., Waukegan, Ill.
 Trask, H. D. Co., 74 Portland, Boston, Mass.
 Union Water Meter Co., Worcester, Mass.
 Van Auken-Clevauc Co., 1 Howard, N. Y.
 Waters Governor Co., Everett, Mass.
 Watson & McDaniel Co. (For Steam, Water
 & Air), 146 N 7th, Phila., Pa.
 Watts Regulator Co., Lawrence, Mass.

Regulators (Feed Water)

(See also Regulators Pump; also Governors,
 Pump.)

Berry Engineering Co. ("Berry"), Chester, Pa.
 Bonner Wm. T. Co. ("Wiltbonco-Fraser"), 246
 Summer, Boston, Mass.
 Boston Steam Specialty Co., 168 Congress,
 Boston, Mass.
 Central Machine Co. ("Copes" Automatic Boil-
 er Feed), 732 Sansom, Phila., Pa.
 Chaplin-Fulton Mfg. Co. ("Vigilant"), Pitts-
 burg, Pa.
 Collins Mfg. Co. ("Collins" Automatic), Bourse
 bldg, Phila., Pa.
 Jerguson Mfg. Co., 221 Columbus av, Boston,
 Mass.
 Knapp Bros. Mfg. Co. (Automatic, for Boiler
 Feed Pumps), 123 Franklin, Chicago, Ill.
 Murray Automatic Boiler Feed Co., 892 Scot-
 ten av, Detroit, Mich.
 Nichols & Whittaker, Methuen, Mass.
 Standard Steam Specialty Co., New York,
 N. Y.
 Steigert, Leopold (Automatic), Elder & Logan,
 Cincinnati, O.
STRONG, CARLISLE & HAMMOND
 Co. ("The Squires"), 61 Frankfort, Clev-
 land, O. (See adv. index, end of book)

Vicksburg Mfg. Co., Vicksburg, Mich.
 Williams Gauge Co. ("Williams" Automatic
 Safety), Pittsburg, Pa.

Regulators (Furnace)

Cobb, Chas. C. (Furnace), 71 Gold, N. Y.
 Driesbach, L. & Co., 1407 N 8th, Phila., Pa.
 Farquhar Heat Regulator Co. ("Farquhar"),
 Wilmington, O.
 Lawler Water Feed & Damper Regulator Co.,
 473 W Broadway, New York
 Norcross Furnace Regulator Co., 71 Gold, New
 York
 Puffer, W. E. (Automatic), 118 Beekman, New
 York
 Quaker Mfg. Co. (Furnace Time Regulators),
 Chicago Heights, Ill.
 Ridgeway Furnace Co., 6 Portland, Boston,
 Mass.
 Riverside Mfg. Co., 162 Riverside av, Newark,
 N. J.
 Rowe, L. L., 72 Portland, Boston, Mass.
 White, C. H. & Co. (Automatic), 22 Bowker,
 Boston, Mass.

Regulators (Gas Pressure)

Baylis Co. ("Colonial"), 140 G'wich, N. Y.
 Beaver Falls Supply Co., Beaver Falls, Pa.
 Bishop & Babcock Co. (Carbonic Acid), Ham-
 ilton & Kirtland, Cleveland, O.
 Boyce, Myron J., 584 Hudson, N. Y.
 Chaplin-Fulton Mfg. Co. ("Wilson"), 28 Penn.
 av, Pittsburg, Pa.
 Combustion Utilities Co., 60 Wall, New York
 Crane, Wm. M. Co. ("Perfect Vulcan"), 1133
 B'way, N. Y.
 Davis, Jno. Co., 22d & Halsted, Chicago, Ill.
 Equitable Meter Co. ("Crawford"), 439 Water,
 Evans Mfg. Co., Butler, Pa. Pittsburg, Pa.
 Foster Engineering Co., Newark, N. J.
GAS POWER CO., New York. (See
 adv. index, end of book)
 Gleason, E. P. Mfg. Co., 37 Murray, N. Y.
 Instantaneous Water Heating Co. ("Perfect"),
 90 Ohio, Chicago, Ill.
JACOBSON MACHINE MFG. CO., Warren,
 Pa. (See adv. index, end of book)
 Johnson-Reynolds Co., Anderson, Ind.
 McLaughlin, Geo. G. Mfg. Co., 812 E 6th
 Boston, Mass.
 Noyes Mfg. Co., 47 India, Boston.
OIL WELL SUPPLY CO., 215 Water,
 Pittsburg, Pa. (See adv. index, end of book)
 Perfect Gas Controller Co., 170 Madison, Chi-
 cago, Ill.
 Pittsburg Meter Co., East Pittsburg, Pa.
 Powers Regulator Co. (Natural Gas), 40 Dear-
 born, Chicago
SCHAEFFER & BUDENBERG MFG.
 Co., Foxboro, Mass. (See adv. index &
 branch offices, end of book)
 Sleeman, Nathaniel, New Haven, Conn.
 Turner Brass Works, 66 Michigan, Chicago, Ill.
 Union Water Meter Co., Worcester, Mass.
 Wilson, F. Cortez & Co., 239 Lake, Chicago, Ill.
 Wright, Geo., Lapel, Ind.

Regulators (Heat)

Autodraft Mfg. Co., 137 Broadway, New York
 Beers Bros., 20 Elm, Rochester, N. Y.
 Chicago Heat Regulator Co. ("Chicago"), 40
 Dearborn, Chicago, Ill.
 Chaplin-Fulton Mfg. Co., 28 Penn av, Pitts-
 burg, Pa.
 Detroit Heating & Lighting Co., Wright, nr
 Lebl, Detroit, Mich.
 Electric Heat Regulator Co. (Automatic), 501
 The Phoenix, Minneapolis, Minn.
 Electric Service Co. of Buffalo, Erie Co. Bank
 bldg, Buffalo, N. Y.
 Enterprise Mfg. Co., Newburgh, N. Y.
 Geetzy Co. (Mechanical Air Moisteners or Tem-
 perature Controllers), 211 Madison av,
 Chicago, Ill.
 Griffing, A. A. Iron Co., 449 Communipaw av,
 Jersey City, N. J.
 Falls, Frank H., 272 State, Rochester, N. Y.
 H. & M. Automatic Regulator Co. (Automatic),
 Newark, N. J.
 Hawkins, Rollyn, Co. (Automatic), 326 Mar-
 ket, Indianapolis, Ind.
 Howard Thermostat Co., Oswego, N. Y.
 International Heater Co., Utica, N. Y.
 Johnson Service Co., 36 E 20th, New York
 Johnson Service Co. ("Johnson" System of Tem-
 perature Regulating), Milwaukee, Wis.
 Lawler Water Feed & Damper Regulator Co.,
 473 W Broadway, New York
 Locke Regulator Co. ("Locke's" Office Heat-
 ing), Salem, Mass.

National Regulator Co. (For Control of
 Dampers & Valves in a Heating Ap-
 paratus), 384 Dearborn, Chicago, Ill.
 Powers Regulator Co., 40 Dearborn, Chicago, Ill.
 Standard Temperature Regulation Co. (Auto-
 matic), 26 Cortlandt, New York
 Taylor Bros. Co., Rochester, N. Y.
 Thermograde Valve Co., Boston, Mass.
 Utica Steam Gauge Co., Frankfort, N. Y.
 Vau Auken-Clevauc Co., Yonkers, N. Y.

Regulators (Hot Water)

H. & M. Automatic Regulator Co., Newark,
 N. J.
KEWANEE BOILER CO., Kewanee, Ill.,
 & 169 E Lake, Chicago, Ill. (See adv. in-
 dex, end of book)
 Lawler Water Feed & Damper Regulator Co.,
 473 W Broadway, New York
 Van Auken-Clevauc Co., Yonkers, N. Y.
 Weld, Geo. A. Co. ("Weld," Automatic
 Damper Regulators), 41 Lincoln, Boston,
 Mass.

Regulators (Hydraulic)

Locke Regulator Co., Salem, Mass.
 Waters Governor Co., 34 Oliver, Boston,
 Mass., works, Everett, Mass.

Regulators (Moisture)

Johnson Service Co. (Humidostat), Milwaukee,
 Wis.

Regulators (Organ)

Wirt Electric Co., Gtn. & Sedgely avs, Phila-
 delphia, Pa.

Regulators (Pressure)

Acton, John, 118 John, Brooklyn, N. Y.
 American District Steam Co. (Steam), Lock-
 port, N. Y.
 Belfield, H. & Co. (High & Low Pressure), 435
 N Broad, Phila., Pa.
 Buckeye Iron & Brass Works, Dayton, O.
 Burrows Mfg. Co., York, Pa.
 Chaplin-Fulton Mfg. Co., 28 Penn av, Pitts-
 burg, Pa.
 Coats, Wm. G. ("Waring," for Steam &
 Water, 45 Clinton, Newark, N. J.
 Collins Mfg. Co. ("Collins" Automatic), Bourse
 bldg, Phila., Pa.
 Crane Co. (Est. 1855), 519 S Canal, Chicago,
 Ill. (See adv. index & branch offices, end
 of book)
CROSBY STEAM GAGE & VALVE
 Co., 95 Oliver, Boston, Mass., & 16 Dey,
 New York. (See adv. index & branch offices,
 end of book)
 Davis, Geo. M. Regulator Co., 144 Milwaukee
 av, Chicago, Ill.
 D'Este, Julian Co., 24 Canal, Boston, Mass.
 Dow, Geo. E. Pumping Engine Co., 179 1st,
 San Francisco, Cal.
 Fisher Governor Co., Marshalltown, Ia.
 Foster Engineering Co. (For Air, Steam, Gas,
 Oil, etc.), Newark, N. J.
 Gilchrist, Geo. E. Co. (The Boston), 106 High,
 Boston, Mass.
GARDNER GOVERNOR CO. ("Gardner"
 Speed & Pressure), Quincy, Ill. (See adv.
 index, end of book)
 H. & M. Automatic Regulator Co., Newark,
 N. J.
 Johnson Service Co. (Pressure Governors & Re-
 ducing Valves for Steam, Water, Gas &
 Air), Milwaukee, Wis.
 Kielev & Mueller (Steam), 34 W 13th, New
 York
 Kelly & Jones Co., Pittsburg, Pa.
 Kipp, A., Jr., Ossining, N. Y.
 Kitts Mfg. Co., Oswego, N. Y.
 Kilpfel Mfg. Co. ("K. & T."), 74 W. Lake,
 Chicago, Ill.
 Lawler Water Feed & Damper Regulator Co.,
 473 W Broadway, New York
 Leslie Co. (Inc.), ("Leslie"), Lyndhurst, N. J.
 Locke Regulator Co. ("New Era," Steam),
 Salem, Mass.
LUNKENHEIMER CO., General Of-
 fices & Works, Beekman & Waverly, Cin-
 cinnati, O. (See adv. index & branch offices,
 end of book)
 Mason Regulator Co., 158 Summer, Boston, Mass.
 Rice, Barton & Fales Machine & Iron Co.,
 Worcester, Mass.
 Ross Valve Co., Troy, N. Y.
 Star Brass Mfg. Co., 108 E Dedham, Boston,
 Mass.
 Thomas Brass & Iron Co., Waukegan, Ill.
 Trask, H. D. Co., 76 Sudbury, Boston, Mass.

Unlon Water Meter Co., Worcester, Mass.
 Van Auken-Cleavac Co. ("Cleavac"), Yonkers, N. Y.
 Waters Governor Co., 34 Oliver, Boston, Mass. Works: Everett, Mass.
 Watson & McDaniel Co. (for Steam, Water & Air), 146 N 7th, Philadelphia, Pa.
 Watts Regulator Co., Lawrence, Mass.

Regulators (Pressure, for Cane Mills)

Buchel Machine Works, New Orleans, La.

*Regulators (Pump)

(See also Governors, Pump)

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)

Crane Co. (Est. 1855), 519 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)

QUIMBY, WM. E. (Inc.), 44-60 E 23d, New York. (See adv. index, end of book)

SCHAEFFER & BUDENBERG MFG. Co., Foxboro, Mass. (See adv. index & branch offices, end of book)

STRONG, CARLISLE & HAMMOND Co. ("The Squires"), 333-344 Frankfort av., N. W., Cleveland, O. (See adv. index, end of book)

WILLIAMS, D. T., VALVE CO., 904 Broadway, Cincinnati, O. (See adv. index, end of book)

Regulators (Rheostat)

Ford, Thomas P. Co., 407 Broome, N. Y.

Regulators (Slasher)

Atwood & Morrill ("XX," "Century"), Salem, Mass.
 Locke Regulator Co., Salem, Mass.

Regulators (Speed)

(See Controllers, various kinds; also Indicators, various kinds)

Regulators (Steam Engine)

(See Governors, Steam Engine.)

Regulators (Steam Heat, for Train Service)

Foster Engineering Co., Newark, N. J.
 Locke Regulator Co., Salem, Mass.

*Regulators (Steam & Hot Water)

AMERICAN RADIATOR CO., 282 Michigan av., Chicago, Ill. (See index & branch offices, end of book)

Regulators (Stoker Equipment)

Foster Engineering Co., Newark, N. J.

Regulators (Tank, Hot Water)

National Regulator Co., 334 Dearborn, Chicago, Ill.
 Weld, Geo. A. Co. ("Weld"), 41 Lincoln, Boston, Mass.

Regulators (Temperature)

(See Regulators, Heat)

Regulators (Voltage)

GENERAL ELECTRIC CO., Schenectady, N. Y., and 44 Broad, New York. (See adv. index and branch offices, end of book)
 Gilmore Electric Co., 625 E 1st, Boston, Mass.
 Portland Co. ("The W. H. C."), Portland, Me.

Regulators (Water Pressure)

Aneshaensel, C. & Co. ("Reliable"), Indianapolis, Ind.
 Atwood & Morrill, Salem, Mass.
 Bishop & Babcock Co., Cleveland, O.
 Chapin-Fulton Mfg. Co., 28 Penn. av., Pittsburgh, Pa.

Clow, Jas. B. & Sons, 344 Franklin, Chicago
 Coats, Wm. G. ("Waring"), 45 Clinton, Newark, N. J.
 Collins Mfg. Co. ("Collins" Automatic), Bourse bldg., Phila., Pa.
 Davis, Geo. M. Regulator Co., 144 Milwaukee av., Chicago, Ill.
 D'Este, Julian Co., 24 Canal, Boston, Mass.
 Erwin Hydraulic Machinery Co., 204 Grand av., Milwaukee, Wls.
 Fisher Governor Co., Marshalltown, Ia.
 Ford, Thos. P. Co., 407 Broome
 Foster Engineering Co., Newark, N. J.
 Haydenville Co., Haydenville, Mass.
 Kieler & Mueller, 34 W 13th, New York
 Kitts Mfg. Co., Oswego, N. Y.
 Locke Regulator Co. ("New Era"), Salem, Mass.
 Mueller, H. Mfg. Co., Decatur, Ill.
 Nason Mfg. Co. ("Griffin"), 71 Beekman, N. Y.
 Powers Regulator Co., Chicago, Ill.
 Ross Valve Co., Troy, N. Y.
 Thomas Brass & Iron Co., Waukegan, Ill.
 Thompson, J. & Co., c Van Horn & Sopha, Phila., Pa.
 Unlon Water Meter Co., Worcester, Mass.
 Watts Regulator Co. ("Watts"), Lawrence, Mass.

Regulators (Water Wheel)

(See Governors, Water Wheel.)

Regulators (Windmill)

Althouse Wheeler Co., Waupun, Wis.
 Baker Mfg. Co. ("Baker"), Evansville, Wis.
 Batavia Windmill Co., Batavia, Ill.
 Bushnell Pump Co., Bushnell, Ill.
 Challenge Windmill & Feed Mill Co., Batavia, Ill.
 Deming Co., Salem, O.
 Dempster Mfg. Co., Des Moines, Ia.
 Eli Tank Heater Co., DeKalb, Ill.
**FAIRBANKS, MORSE & CO., Frank-
 lin & Monroe, Chicago, Ill.** (See adv. index & branch offices, end of book)
 Fisher & Long, Decatur, Ill.
 Flint & Walling Mfg. Co., Kendallville, Ind.
**HELLER, ALLER & CO. (Hydraulic),
 Napoleon, O.**
 Hunt, Helm, Ferris & Co. ("The Star" & "Champion"), Harvard, Ill.
**KEWANEE WATER SUPPLY CO.,
 Kewanee, Ill.** (See adv. index, end of book)
 Marey, R. G. Mfg. Co. (The Acme), Burlington, Ind.
 Mast, Foos & Co., Springfield, O.
 Myers, F. E. & Bro., Ashland, O.
 Novelty Mfg. Co., Rock Island, Ill.
 Red Jacket Mfg. Co., Davenport, Ia.
 Stover Mfg. Co., Freeport, Ill.
 Tallerdar Steel Pipe & Tank Co., Waterloo, Ia.
 U. S. Wind Engine & Pump Co., Batavia, Ill.
 Zimmerman Mfg. Co., Auburn, Ind.

*Reheaters (Air)

**INGERSOLL-RAND CO., 11 B'way,
 New York.** (See adv. index & branch offices, end of book)

Reinforced Concrete Bridges

(See Bridges, Concrete Reinforced; also Concrete Steel Construction, Reinforced)

*Reinforcing Metals

RANSOME CONCRETE MACHINERY Co. (Twisted Steel), Dunellen, N. J. (See adv. index, end of book)

Relays for Electrical Contact

Weston Electrical Instrument Co., Waverly Park, Newark, N. J.

Remnants (Cotton)

Devon Mills (George S. Browne, Prop.) (Specially Absorbent for Cleaning), Providence, R. I.

*Renovators (Church, School & Theatre)

GENERAL COMPRESSED AIR & Vacuum Machinery Co. (Vacuum Sweeping Systems), 4469 Olive, St. Louis, Mo. (See adv. index, end of book)
VACUUM CLEANER CO. (Vacuum Sweeping System), 427 5th av., New York. (See adv. index, end of book)

*Repairs (Electrical Machinery)

PHOENIX ELECTRIC COMPANY, Mansfield, O. (See adv. index, end of book)

Replacers (Car)

Adreon & Co. ("Fewling's"), St. Louis, Mo.
 Alexander Car Replacer Co., Mears bldg., Scranton, Pa.
 Buda Foundry & Mfg. Co. ("Buda"), Railway Exchange bldg., Chicago, Ill.
FAIRBANKS, MORSE & CO., Franklin & Monroe, Chicago, Ill. (See adv. index, & branch offices, end of book)
 Hanigan, Jno. F. ("Hanigan"), 2515 E. Lehigh av., Phila., Pa.
 Hood Reraller Co., Raleigh, N. C.
 Johnson Wrecking Frog Co., Cleveland, O.
 Kalamazoo Railway Supply Co., Kalamazoo, Mich.
 Kline, August, Utica, N. Y.
 Quincy-Manchester-Sargent Co. ("Fewling's"), Old Colony bldg., Chicago, Ill., & 114 Liberty, New York
 Penfroe Replacer Co. ("Renfroe"), Birmingham, Ala.
 Portsmouth Pressed Steel Co. ("Fowler" Pressed Steel), Portsmouth, O.
 Traction Equipment Co. ("Aldon"), 72 Grand av., Brooklyn, N. Y.
U. S. METAL & MFG. CO. ("Perfect" Pressed Steel & "Victor" Cast Steel), 25 Broad, New York. (See adv. index, end of book)

Reservoirs (Air Brake, Etc.)

Avery Stamping Co. ("Never Break"), Lake & Coe, Cleveland, O.
KOVEN, L. O. & BRO., 50 Cliff, New York. (See adv. index, end of book)
PRESSED STEEL TANK CO., Milwaukee, Wis. (See adv. index, end of book)

*Resistance Blocks

DIXON, JOS. CRUCIBLE CO. (Graphite), Jersey City, N. J. (See adv. index & branch offices, end of book)

*Resistance Rods & Carbons

DIXON, JOS. CRUCIBLE CO. (Graphite), Jersey City, N. J. (See adv. index & branch offices, end of book)

Resistance Units

ELECTRIC CONTROLLER & SUPPLY Co., Cleveland, O. (See adv. index & branch offices, end of book)
 Ward, Leonard, El. Co., Bronxville, N. Y.

Resistances (Standard)

Weston Electrical Instrument Co., Waverly Park, Newark, N. J.

Respirators

Cover, H. S. (Metal or Rubber), South Bend, Ind.
 Diamond Rubber Co. (Rubber), Akron, O.
 Gibbs Respirator Co. ("Gibbs"), 124 East av., Oak Park, Chicago, Ill.

Retorts (Cast Iron)

Cornell, J. B. & J. M. Co., 26th & 11th av., Love Bros. (Inc.), Aurora, Ill. New York

*Retorts (Chemical)

BETHLEHEM FOUNDRY & MACHINE Co., Front, South Bethlehem, Pa., and 149 B'way, New York. (See adv. index, end of book)

Retorts (Gas)

Baltimore Retort & Fire Brick Co., Nicholson, c. Hull, Locust Point, Baltimore, Md.
 Borgner, Cyrus Co., 23d ab Race, Phila., Pa.
 Brooklyn Fire Brick Works, 88 Van Dyke, Brooklyn, N. Y.
 Chicago Retort & Fire Brick Co., 45th & Clark, Chicago, Ill.
 Didier-March Co., 15 Park Row, New York, N. Y. Works, Keasby, N. J.

FISKE & COMPANY (Inc.), 161 Devonshire, Boston, Mass., & Flat Iron bldg., New York. (See adv. index, end of book)
 Gardner, Jas., Jr. Co., Lewis blk., Pittsburgh, Pa. Works, Lockport Station, Pa.
 Gautler, J. H. Co., Greene & Essex, Jersey City, N. J.

KREISCHER BRICK MFG. CO., 119 E. 23d, N. Y.; Works Kreischerville, S. I., N. Y. (See adv. index end of book)

Laclede Fire Brick Mfg. Co., Mauchester and Sulphur avs., St. Louis, Mo.
 Louisville Fire Brick Works, Highland Park, Louisville, Ky.

MAURER, HENRY & SON, 420 E 23d, N. Y., Penna. bldg., Phila., Pa. Works, Maurer, N. J. (See adv. front inside cover)
 Parker-Russell Mining & Mfg. Co., 417 Plue, Phila. Fire Brick Works, 2306 Vine, Phila., Pa.

Retorts (Gold & Silver Melting)

Power & Mining Machinery Co., 52 William, New York. Works, Cudahy, Wis.

Retorts (Wood Alcohol)

Cornell, J. B. & J. M. Co., 26th & 11th av., New York

Revolution Counters

(See Counters, Revolution.)

Revolving Doors

(See Doors, Revolving.)

Revolver Mfrs.

(See Rifles, Guns, etc.)

Rheostat Bricks

Reconstructed Granite Co., 14 Dey, New York. Works, Norristown, Pa.

Rheostats

Badt, F. B. & Co. (Mfrs.' Agts.), Monaduock blk, Chicago, Ill.
 Bentou, Thos. P. & Son, La Crosse, Wis.

Bernard, E. G. Co., Troy, N. Y.
 Cutler Electrical & Mfg. Co., 1112 Sansom, Phila., Pa.

CUTLER-HAMMER MFG. CO. (For all Purposes), Milwaukee, Wis. (See adv. index, end of book)

Darrin, D. H. Co. (The Whittingham), 126 Liberty, N. Y.

Diamond Meter Co., 926 S Adams, Peoria, Ill.
ELECTRIC CONTROLLER & SUPPLY CO., Central & Giddings avs., Cleveland, O. (See adv. index, end of book)

Federal Electric Co. (Automatic Motor Starting, for Elevator and General Service), North Girard, Pa.

Fort Wayne Electric Works (Motor Sterling), Fort Wayne, Ind.

GENERAL ELECTRIC CO. (for Generators, Motors & Projectors), Schenectady, N. Y., & 44 Broad, New York. (See adv. index & branch offices, end of book)

International Instrument Co. (Water), 23 Church, Cambridge, Mass.

Jenney Electric Mfg. Co., Indianapolis, Ind.

Lincoln Electric Co., 49 Wood, Cleveland, O.

McIntosh Battery & Optical Co. (Cautery, etc.), 39 W Randolph, Chicago, Ill.

McLain, H. E., 141 Federal, Boston, Mass.

Muir, Thos. & Son, Union Trust bldg, Detroit, Mich.

Northern Engineering Works, 120 Liberty, New York

Ohio Electric Specialty Mfg. Co., Troy, O.

OTIS ELEVATOR CO. (Automatic), 17 Battery pl., New York. (See adv. index & branch offices, end of book)

PHOENIX ELECTRIC COMPANY, Mansfield, O. (See adv. index, end of book)

Putnam, Jos. E. (Automatic), Chamber of Commerce, Rochester, N. Y.

Quaker City Electric Co., 237 Dock, Phila., Pa.

Simplex Electrical Co., 110 State, Boston, Mass.

Schureman, J. L. Co., 70 W. Jackson boulevard, Chicago, Ill.

Traction Equipment Co. (for Street Cars), 74 Cortlandt, New York

Ward, Leonard Electric Co., Bronxville, N. Y.

Western Electric Co. (Stage Dimming), 259 S. Clinton, Chicago, Ill., & 57 Bethune, N. Y.

WESTINGHOUSE ELECTRIC & MFG. Co., Westinghouse bldg., Pittsburgh, Pa.

(See adv. index, end of book)

Wirt Electric Co. ("Wirt" Arc, Battery Charging, Dynamo Field, Motor Starting & Controlling), Gtn. & Sedgely avs., Phila., Pa.

*Ribbon Cutting Machines

CAMERON MACHINE CO., 61 Poplar, Brooklyn, N. Y. (See adv. index, end of book)

Rice Binders

Aultman, Miller & Co., Akron, O.
 Deering Harvester Co., Chicago, Ill.
 Warder, Bushnell & Glessner Co., Springfield, O.

Rice Shoes (Brewers')

Huntley Mfg. Co. ("Monitor"), Silver Creek, N. Y.

Rickerts (Hay)

(See Rakes, Sweep Hay, Etc.)

Riddles (Foundry)

BUFFALO WIRE WORKS CO., 316 Terrace, Buffalo, N. Y. (See adv. index, end of book)

Dean, Hy. E. & Co., Worcester, Mass.

TAYLOR & DEAN, 205 Market, Pittsburgh, Pa. (See adv. index, end of book)

TYLER, W. S. CO., Cleveland, O., and 11 B'way, New York. (See adv. index, end of book)

WRIGHT WIRE CO., Worcester, Mass. (See adv. index & branch offices, end of book)

*Riddles (Miners')

TYLER, W. S. CO., Cleveland, O., and 11 B'way, New York (See adv. index, end of book)

Riddles & Sieves

Brand, S. H. & Co. (Nickel Plate), 99 W. Monroe, Chicago, Ill.

BUFFALO WIRE WORKS CO., 316 Terrace, Buffalo, N. Y. (See adv. index, end of book)

Colton Wire Cloth Co., Worcester, Mass.

DARBY, EDWARD & SONS CO., 239 Arch, Phila., Pa. (See adv. index, end of book)

Dufur & Co., 311 N Howard, Baltimore, Md.

ESTEY WIRE WORKS CO., 59 Fulton, N. Y. (See adv. index, end of book)

Forest City Steel & Iron Co., Cleveland, O.

Gilbert & Bennett Mfg. Co., Georgetown, Conn.

Howard & Morse, 45 Fulton, N. Y.

Ludlow-Saylor Wire Co., St. Louis, Mo.

Meyers, Fred J. Mfg. Co., Hamilton, O.

Morris & Whyte Co., 75 Cornhill, Boston, Mass.

OSBORN MFG. CO., 5401 Hamilton av., N. E. Cleveland, O. (See adv. index, end of book)

Phoenix Wire Works, Detroit, Mich.

Scheeler's Sons, Buffalo, N. Y.

SMITH, J. D. FOUNDRY SUPPLY CO., 1581 Columbus rd., N. W., Cleveland, O. (See adv. index, end of book)

SMITH, F. P. WIRE & IRON WORKS, 100 Lake, Chicago, Ill. ((See adv. index, end of book)

TAYLOR & DEAN, 205 Market, Pittsburgh, Pa. (See adv. index, end of book)

Tristram, Jas. J., Rockville Centre, N. Y.

TYLER, W. S. CO., Cleveland, O., and 11 B'way, New York. (See adv. index, end of book)

WILSON, F. CORTEZ & CO., 239 Lake, Chicago, Ill. (See adv. index, end of book)

WRIGHT WIRE CO. (Steel, Brass, etc.), Worcester, Mass. (See adv. index & branch offices, end of book)

*Ridgings (Globe Ventilated)

GLOBE VENTILATOR CO. (Globe Ventilated Ridging), Troy, N. Y. (See adv. index, end of book)

Riding Galleries (Steam)

(See Carousels, Organs, etc.)

Rifles (Air)

Daisy Mfg. Co. ("Daisy" and "Sentinel"), Plymouth, Mich.

Markham Air Rifle Co., Plymouth, Mich.

Smith, Wm. G. & Co. ("Columbia"), 1429 N 21st, Phila., Pa.

Rifles, Guns, Etc.

Baker Gun & Forging Co., Batavia, N. Y.

Colt's Patent Fire Arms Mfg. Co., Hartford, Conn.

Crescent Fire Arms Co. (Single & Double Barrel Shot Guns), Norwich, Conn.

Davenport, W. H. Fire Arms Co., Norwich, Conn.

Davis, N. R. & Sons (Hammerless Guns, etc.), Assonet, Mass.

Fyereberg, Andrew & Sons, Hopkinton, Mass.

Hamilton, C. J. & Son Mfg. Co. (22 Powder Guns), Plymouth, Mich.

Harrington & Richards Arms Co. (Guns & Pistols), Worcester, Mass.

Hopkins & Allen Arms Co. (Revolvers, Rifles & Shot Guns), Norwich, Conn.

HUNTER ARMS CO. (Hammerless & Hammer Breech Loading Guns), Fulton, N. Y.

Ithaca Gun Co. (Hammer & Hammerless Guns), Ithaca, N. Y.

Johnson's, Iver Arms & Cycle Co. (Single Shot Guns & Revolvers, etc.), Fitchburg, Mass., & 99 Chambers, New York, N. Y.

Lefever Arms Co. (Automatic Hammerless Guns), Syracuse, N. Y.

Marlin Fire Arms Co. (Repeating Rifles & Shot Guns), New Haven, Conn.

Parker Bros. (Shot Guns), Meriden, Ct.

Remington Arms Co., Ilion, N. Y., & N. Y. City

Savage Arms Co., Utica, N. Y.

Shattuck, C. S. (Hammerless Guns, etc.), Hatfield, Mass.

Smith, Otis A. (Revolvers), Rockfall, Conn.

Smith & Wesson (Revolvers), Springfield, Mass.

Stevens, J. Arms & Tool Co. (Rifles, Pistols, Shot Guns, etc.), Chicopee Falls, Mass.

Union Fire Arms Co., Toledo, O.

United States Rapid Fire Gun & Power Co. (Navy & Fortification Guns, with Ammunition for Same), Derby, Conn.

Winchester Repeating Arms Co., New Haven, Conn.

Rims (Automobile)

American Tube & Stamping Co. (Steel), Bridgeport, Conn.

American Wood Rim Co. (Wood), Bradford, Pa.

Bryant Steel Wheel & Rim Co. (Steel), Columbus, O.

G. & J. Tire Co. ("G. & J."), Indianapolis, Ind.

Garford Co. (Steel), Elyria, O.

Globe Machine & Stamping Co. (Steel), 97 Hamilton, Cleveland, O.

Hagerstown Spoke & Bending Co. (Wood), Hagerstown, Ind.

Harburg Tire Co. ("Harburg"), 232 W. 58th, N. Y. City

Jamesville Mfg. Co. (Steel), Jamesville, N. Y.

K. & C. Mfg. Co. (Wood), Henniker, N. H.

Midgley Mfg. Co., Dublin av., Columbus, Ohio

Rastalter, Louis & Son (Wood), Fort Wayne, Ind.

Republic Rubber Co. ("Detachable"), Youngstown, O.

Smith, A. O. Company (Steel), Clinton, bet. Park & Virginia, Milwaukee, Wis.

Standard Welding Co. (Steel "V"), 37 Cone, Cleveland, O.

Tucker Bicycle Woodwork Co. (Wood), Sidney, Ohio

Weston Motor Co. (Steel), Pleasant, Utica, N. Y.

Weston-Mott Co., Flint, Mich.

Ringers (Hog)

Pratt, Wm. E. Mfg. Co. ("Perfect"), 91 Lake, Chicago, Ill.

Rings (Brass)

American Ring Co., Waterbury, Conn.

GRAMMES, L. F. & SONS (Plain & Screw), Allentown, Pa. (See adv. index, end of book)

Hendryx, Andrew B. Co., New Haven, Conn.

Plume & Atwood Mfg. Co., Waterbury, Conn.

Turner & Seymour Mfg. Co., Torrington, Conn.

Rings (Clinch)

Falls Mfg. Co., San Francisco, Cal.
Haskell, Wm. H. Mfg. Co., Pawtucket, R. I.
Hazel Atlas Glass Co. (Successors to Wheeling Hinge Co.), Wheeling, W. Va.
Rhode Island Tool Co., Providence, R. I.
Wilcox, Crittenden & Co. (Wrought & Malleable), Middletown, Conn.

Rings (Fruit Jar)

(See Rubbers, Fruit Jar)

Rings (Furnace Casing)

Walworth Run Foundry Co. (Steel), Cleveland, Ohio

Rings (Grommet)

Wilcox Crittenden & Co. (Malleable Iron Galvanized), Middletown, Conn.

Rings (Harness, Etc.)

(See Hardware Mfrs. Saddlery.)

Rings (Hitching)

Brewer Bros. (Wrought, Screw, Drill or Lead, etc.), 614 Filbert, Phila., Pa.
Vaughn & Bushnell ("V" & "B" Steel), 875 W Carroll av, Chicago, Ill.
Wire Goods Co. (Wrought), Worcester, Mass.

Rings (Hog & Bull)

Chambers, Bering & Quinlan Co., Decatur, Ill.
Decker Mfg. Co., Keokuk, Ia.
Heesen Bros. & Co., Tecumseh, Mich.
Humason & Beckley Mfg. Co. (Rings & Punches), New Britain, Conn.
Kohler, F. E. & Co., Canton, O.
Pratt, Wm. E. Mfg. Co. ("Hill," "Blair," "Brown," "Major" & "Wolverine"), 91 Lake, Chicago, Ill.
St. Louis Screw Co. (Rings, Hog), 600 E. Clarence, St. Louis, Mo.
Smith, F. P. & Co. ("Hills," "Blair," Copper & Galvanized, Cast & Malleable Iron), Sharon Hill, Pa.
Smith, Seymour & Son (Bull only), Oakville, Conn.

Rings (Key)

Arcade Mfg. Co. ("De Vore" Double), Freeport, Ill.
Billings & Spencer Co. ("Billing's"), Hartford, Conn.
Browne & Dowd Mfg. Co. ("Reliable" Puzzle, Clasp, Joker), Meriden, Conn.
Coe Mfg. Co. (Steel Ball Key Rings), 50 Warren, New York, N. Y.
Jopson, Geo. W. ("Joker" Puzzle, Spring Lock, Chain Lock, Clasp, Triangle), Meriden, Conn.
Morden Mfg. Corporation ("Morden Perfect"), Waterbury, Conn.
Snow & Petrelli Mfg. Co., 698 Chapel, New Haven, Conn.

Rings (Net)

Meisselbach, A. F. & Bro. (Fishing), Newark, N. J.

Rings (Open)

Brewer Bros. (Wrought), 614 Filbert, Phila., Pa.

Rings (Pole)

American Iron & Steel Co., Lebanon, Pa.
ANDERSON FORGE & MACHINE Co., 271 Guoin, Detroit, Mich. (See adv. index, end of book)
Boston Bolt Co., 284 Franklin, Boston, Mass.
Hubbard & Co., Murland bldg, Pittsburg, Pa.
Lanz, M. & Sons, 101 S 29th, Pittsburg, Pa.
New England Bolt & Nut Co., 253 Atlantic av, Boston, Mass.
Oliver Iron & Steel Co., Pittsburg, Pa.
Piqua Handle & Mfg. Co. (Wood), Piqua, O.

Rings (Rubber)

(See also Rubber Mfrs., Mechanical.)

BOSTON BELTING CO., 260 Devon-shire, Boston, Mass., & 100 Reade, N. Y.
(See adv. index & branch offices, end of book)

Boston Woven Hose & Rubber Co., Executive Office & Factory, Cambridgeport, Mass.
Cincinnati Rubber Mfg. Co. (Fruit Jar, etc.), Cincinnati, O.

Goodrich, B. F. Co., Akron, O.
Diamond Rubber Co., Akron, O.
Faultless Rubber Co. (Umbrella), Ashland, O.
Morgan & Wright (Inc.) (For all Purposes), 226 Jefferson av, Detroit, Mich.
New York Belting & Packing Co. (Ltd.), 91 Chambers, New York
Spinney-Wise Co., Lynn, Mass.

Rings (Screw)

Brooks, M. S. & Son (Brass), Chester, Conn.

Rings (Shower Bath)

Kelly, Thos. & Bros. ("Kelly"), Congress & 46th av, Chicago, Ill.

Rings (Shutter)

Brooks, M. S. & Sons., Chester, Conn.

Rings (Steel)

Dunne, Geo. W. & Co. (Solid), 687 Carroll av, Chicago, Ill.
Hobbs Mfg. Co., Worcester, Mass.
Seneca Chain Co. (Wrought), Kent, O.

Rings (Trap Door)

Reading Hardware Co., Reading, Pa.

Rings (Trapeze)

Wilcox, Crittenden & Co., Middletown, Conn.

Rings (Weldless)

Crucible Steel Forge Co., 5814 E. Prospect, S. E., Cleveland, O.
Dyson, Jas. & Sons, Cleveland, O.
Hay-Budden Mfg. Co., 254 Henry, Brooklyn, N. Y.

Rings (Wire)

North & Judd Mfg. Co. (Steel "Anchor"), New Britain, Conn.
Parker Wire Goods Co., Worcester, Mass.
Wire Goods Co., Worcester, Mass.

Rings with Staples

Humason & Beckley Mfg. Co. (Wrought), New Britain, Conn.

Rivet Mfrs.

(Under this heading sub-classifications.)

Ames, W. & Co., 312 Wash'n, Jersey City, N. J.
American Iron & Steel Mfg. Co., Lebanon, Pa.
American Screw Co., Providence, R. I.
Atlas Tack Co., Fairhaven, Mass.
Baker & Co. (Platinum), Newark, N. J.
Berry Bros., E. 1st av & R. R., Columbus, O.
Blake & Johnson (Iron, Steel, Brass & Copper), Waterbury, Conn.
Bourne & Knowles Mfg. Co. (Hot Rivets ½ & Larger), 1231 Main, N W, Cleveland, O.
Brown, Edw. E., Winsted, Conn.
Burden Iron Co., Troy, N. Y.
Capital Lock Nut & Washer Co., Columbus, O.
Champion Rivet Co., Union, at Erle R. R., Cleveland, O.
Clark Bros. Bolt Co., Milldale, Conn.
Cobb & Drew (Copper, Brass & Iron), Plymouth, Mass., & Rock Falls, Ill.
Coe Brass Mfg. Co., Torrington, Conn.
Columbus Bolt Works, Columbus, O.
Falls Rivet & Machine Co., Cuyahoga, O.
Fort Pitt Forge Co., Liberty av & 26th, Pittsburg, Pa.
Garland Nut & Rivet Co., Bailey-Farrell bldg, Pittsburg, Pa. Works, West Pittsburg, Pa.
Grand Crossing Tack Co., S Chicago av & 79th, Chicago
Greenlie, Wyatt & Co., 499 Water, New York
Hassall, Jno. (Small), 171 Lafayette, New York
Hoopes & Townsend Co., 1330 Buttonwood, Philadelphia, Pa.
HUNGERFORD, U. T. BRASS & COP-per Co. (Mfrs. Agts.), 497 Pearl, New York
Kansas City Bolt & Nut Co., Kansas City, Mo.
Kirk-Latty Mfg. Co., Cleveland, O.

Lamson & Sessions Co., 2188 Scranton rd, S. W., Cleveland, O.
Lanz, Mathew & Sons, 101 S 29th, Pittsburg, Pa.
Michigan Bolt & Nut Works, ft Meldrum av, Detroit, Mich.
Moore, Franklin Co. (Cone, Flat, Truss, Oval & Round Head), Winsted, Conn.
Moran Bolt & Nut Mfg. Co., c Florida & Main, St. Louis, Mo.

Mount Carmel Bolt Co., Mt. Carmel, Conn.
National Screw & Tack Co., Cleveland, O.
Newark Rivet Works, 146 Monroe, Newark, N. J.
New Castle Forge & Bolt Co., New Castle, Pa.
New England Bolt & Nut Co., 267 Atlantic av, Boston, Mass.
Old Dominion Iron & Nail Wks. Co., Richmond, Va.

Oliver Iron & Steel Co., Pittsburg, Pa.
Phillips, Townsend & Co., N 4th & Glenwood av, Philadelphia, Pa.
Pittsburg Mfg. Co., 28th & R. R., Pittsburg, Pa.
Pittsburg Rivet Co., 38th & Junction R. R., Pittsburg, Pa.

Pittsburg Screw & Bolt Co., Pittsburg, Pa.
Plymouth Mills, Plymouth, Mass.
Progressive Mfg. Co., Torrington, Conn.
Reed & Prince Mfg. Co., Worcester, Mass.
Reeves Mfg. Co., New Haven, Conn.
Republic Iron & Steel Co., Frick bldg Annex, Pittsburg, Pa.
Richards, T. C. Hardware Co., Winsted, Conn.
Rome Brass & Copper Co. (Brass & Copper), Rome, N. Y.
Russell & Erwin Mfg. Co., New Britain, Conn.
SCAIFE, WM. B. & SONS CO., 221 1st av, Pittsburg, Pa. (See adv. index, end of book)

Scranton Roll & Nut Co., Scranton, Pa.
Scovill Mfg. Co. (Brass, etc.), Waterbury, Conn.

Sessions, J. H. & Son, Bristol, Conn.
Severance, S. Mfg. Co., Glassport, Pa.
Standard Rivet Co., 41 Lincoln, Boston, Mass.
Stimpson, Edwin B. & Son, 31 Spruce, N. Y.
Taunton Rivet Co., Taunton, Mass.
Thomson, Judson L. Mfg. Co., Waltham, Mass.
Tower Mfg. Co., Madison, Ind.
Townsend, C. C. & E. P., New Brighton, Pa.
Townsend, G. G., Winchendon, Mass.
Tubular Rivet & Stud Co., 87 Lincoln, Boston, Mass.

Ulster Iron Works (Inc.), Dover, N. J.
Upham, V. B. & Bro. (Aluminum, Brass, Copper, Iron, etc.), 30 Hudson av, Brooklyn, N. Y.
Upton Nut Co., Unionville, Conn., & Cleveland, O.
Waterbury Brass Co. (Brass, etc.), Waterbury, Conn., & 99 John, New York

Rivet Set & Header

Springfield Machine Screw Co. ("Diamond"), Chicopee, Mass.

Rivet Sets

BERNZ. OTTO (Plumbers), S 13th c S Orange av, Newark, N. J. (See adv. index, end of book)
Braunsdorf-Hueller Co., Elizabeth, N. J.
Eyelet Tool Co., Boston, Mass.
Granger's Drop Forge Works, 25 S. Canal, Chicago, Ill.
Krauter & Co., Newark, N. J.
NIAGARA MACHINE & TOOL WORKS, Buffalo, N. Y. (See adv. index, end of book)
Peck Stow & Wilcox Co., 27 Murray, New York
Springfield Machine Screw Co. ("Diamond"), Chicopee, Mass.
Vaughn & Bushnell Mfg. Co., 875 W. Carroll av, Chicago, Ill.

Riveters (Belting & Harness Repairing, Etc.)

Arcade Mfg. Co. ("Arcade"), Freeport, Ill.

Riveters (Hand Power)

Albree, Chester B., Iron Works Co., Allegheny, Pa.
Chicago Pneumatic Tool Co., Fisher bldg, Chicago, Ill.
Davis Mfg. Co., Milwaukee, Wis.
Root Bros. Co. ("Plymouth Rock" Automatic), Plymouth, O.
Smith, F. H. Mfg. Co. ("Pony"), 48 St. John's Ct., Chicago, Ill.
Williams, A. C., Ravenna, O.

Riveters (Pneumatic Compression)

(See Pneumatic Compressing Riveters.)

Riveting Machines

(See Machinery; also Pneumatic Riveting Machines)

Rivets (Aluminum)

Blake & Johnson, Waterbury, Conn.
Upham, V. B. & Bro., 30 Hudson av, Brooklyn, N. Y.

Rivets (Barrel)

Cobb & Drew, Plymouth, Mass., & Rock Falls, Ill.
Falls Rivet & Machine Co., Cuyaboga Falls, Ohio, & 208 Fulton, N. Y. City
Garland Nut & Rivet Co., Pittsburg, Pa.
Hoopes & Townsend Co., 1330 Buttonwood, Phila., Pa.
Townsend, G. G., Winchendon, Mass.
Union Steel Screw Co., Payne av. & E. 40th st., Cleveland, O.

Rivets (Belt & Hose)

American Screw Co. (Rivets & Burrs), Providence, R. I., & 19 Lake, Chicago, Ill.
Atlas Tack Co. (Copper), Fairbaven, Mass.
Bridgeport Brass Co., Bridgeport, Conn., & 19 Murray, New York
Coe Brass Mfg. Co., Torrington, Conn.
Falls Rivet & Machine Co., Cuyaboga Falls, Ohio, & 208 Fulton, N. Y. City
Garland Nut & Rivet Co., Pittsburg, Pa.
Grand Crossing Tack Co., S Chicago av & 79th, Chicago, Ill.
HUNGERFORD, U. T. BRASS & COPPER CO. (Copper), 497 Pearl, New York
NATIONAL SUPPLY CO. (Belt), 7 W Lombard, Baltimore, Md. (See adv. index, end of book)
Phillips, Townsend & Co., 4-8 Glenwood av, Phila., Pa.
Plume & Atwood Mfg. Co., Waterbury, Conn.
Rome Brass & Copper Co., Rome, N. Y.
SCAIFE, WM. B. & SONS CO., 221 1st av, Pittsburg, Pa. (See adv. index, end of book)
Standard Rivet Co. (And for Cloth & Other Fabrics), 41 Lincoln, Boston, Mass.
Stimpson, Edwin B. & Son, 31 Spruce, New York
Tower Mfg. Co. (Tinned & Coppered Iron, Burrs & Rivets), Commerce & Elm, Cincinnati, O., & Madison, Ind.
Union Steel Screw Co., Payne av & E 40th, Cleveland, O.
Waterbury Brass Goods Corp., Waterbury, Conn.

Rivets (Boiler & Tank)

American Equipment Co., Norristown, Pa.
American Iron & Steel Mfg. Co., Lebanon, Pa.
Atlas Tack Co., Fairbaven, Mass.
Bassett-Presley Co. ("Crown" Steel), Western Reserve bldg, Cleveland, O.
Boston Bolt Co., 284 Franklin, Boston, Mass.
Bourne & Knowles Mfg. Co., Cleveland, O.
Burden Iron Co., Troy, N. Y.
Champion Rivet Co., Union at Erie R. R., Cleveland, O.
Falls Rivet & Machine Co., Cuyaboga Falls, O.
Fuller Bros. & Co. (Mfrs' Agts.), 139 Greenwich, N. Y.
Garland Nut & Rivet Co., Pittsburg, Pa.
Hoopes & Townsend Co., 1330 Buttonwood, Phila., Pa.
Jones & Laughlin Steel Co., Pittsburg, Pa.
Kansas City Bolt & Nut Co., Kansas City, Mo.
Michigan Bolt & Nut Works, ft Meldrum av, Detroit, Mich.
Moran Bolt & Nut Mfg. Co., St. Louis, Mo.
New Castle Forge & Bolt Co., New Castle, Pa.
New England Bolt & Nut Co., 267 Atlantic av, Boston, Mass.
Old Dominion Iron & Nail Works Co., Richmond, Va.
Oliver Iron & Steel Co., Pittsburg, Pa.
Pittsburg Mfg. Co., 28th & R. R., Pittsburg, Pa.
Pittsburg Rivet Co., Pittsburg, Pa.
Pittsburg Screw & Bolt Co., Pittsburg, Pa.
Republic Iron & Steel Co., Frick bldg Annex, Pittsburg, Pa.
Rockford Bolt Works, Rockford, Ill.

SCAIFE, WM. B. & SONS CO., 221 1st av, Pittsburg, Pa. (See adv. index, end of book)
Severance, S. Mfg. Co., Glassport, Pa.
Ulster Iron Works (Inc.), Dover, N. J.
Upson Nut Co., Unionville, Conn., & Cleveland, O.

Rivets (Brass & Copper)

Atlas Tack Co. (Rivets & Burrs), Fairhaven, Mass.
Blake & Johnson, Waterbury, Conn.
Bridgeport Brass Co., Bridgeport, Conn., & 19 Murray, New York
Cobb & Drew, Plymouth, Mass.
Coe Brass Mfg. Co., Torrington, Conn.
Falls Rivet & Machine Co., Cuyaboga Falls, Ohio, & 208 Fulton, N. Y. City
Hassall, John (Small to Order only), 171 Lafayette, New York
HUNGERFORD, U. T. BRASS & COPPER CO., 497 Pearl, New York
MERCHANT & EVANS CO. (Inc.), Jobbers, 517 Arch, Phila., Pa. (See adv. index & branch offices, end of book)
Newark Rivet Works, 146 Monroe, Newark, N. J.
Plume & Atwood Mfg. Co. (Copper Trunk, razers, Brass Jacket, etc.), Waterbury, Conn.
Progressive Mfg. Co., Torrington, Conn.
Reed & Prince Mfg. Co., Worcester, Mass.
Reeves Mfg. Co., New Haven, Conn.
Rome Brass & Copper Co., Rome, N. Y.
Russell & Erwin Mfg. Co., New Britain, Conn.
Taunton Rivet Co. (Copper Rivets & Burrs), Taunton, Mass.
Townsend, C. C. & E. P., Brighton, Pa.
Upham, V. B. & Bro., c John & Hudson av, Brooklyn, N. Y.
Waterbury Brass Goods Corp. (Brass Only), Waterbury, Conn.

Rivets (Bridge & Structural)

American Iron & Steel Mfg. Co., Lebanon, Pa.
Bassett-Presley Co. ("Crown" Steel), Cleveland, O.
Bourne & Knowles Mfg Co., Cleveland, O.
Capital Lock Nut & Washer Co., Columbus, O.
Champion Rivet Co., Union & E. R. R., Cleveland, O.
Columbus Bolt Works, Columbus, O.
Continental Bolt & Iron Works, 22d & Union, Chicago, Ill.
Falls Rivet & Machine Co., Cuyaboga Falls, O.
FOREST CITY STEEL & IRON CO., 110th, nr. Detroit av., Cleveland, O. (See adv. index, end of book)
Hoopes & Townsend Co., 1330 Buttonwood, Philadelphia, Pa.
Jones & Laughlin Steel Co., Pittsburg, Pa.
Kansas City Bolt & Nut Co., Kansas City, Mo.
Lanz, Mathew & Sons, 101 S 29th, Pittsburg, Pa.
Michigan Bolt & Nut Works, ft Meldrum av, Detroit, Mich.
Moran Bolt & Nut Mfg. Co., St. Louis, Mo.
New Castle Forge & Bolt Co., New Castle, Pa.
New England Bolt & Nut Co., 267 Atlantic av, Boston, Mass.
O'DONNELL, JAMES (Broker), 32 La Salle, Chicago, Ill.
Old Dominion Iron & Nail Works Co., Richmond, Va.
Oliver Iron & Steel Co., Pittsburg, Pa.
Pittsburg Forge & Iron Co., 1003 Penna. av., Pittsburg, Pa.
Pittsburg Rivet Co., Pittsburg, Pa.
Pittsburg Screw & Bolt Co., Pittsburg, Pa.
Republic Iron & Steel Co., Frick bldg. annex, Pittsburg, Pa.
SCAIFE, WM. B. & SONS CO., 221 1st av, Pittsburg, Pa. (See adv. index, end of book)
Scranton Bolt & Nut Co., Scranton, Pa.
Severance, S. Mfg. Co., Glassport, Pa.
Townsend, C. C. & E. P., New Brighton, Pa.
Union Forge Co., Pittsburg, Pa.
Upham, V. B. & Bro. (For Ornamental Work), 30 Hudson av, Brooklyn, N. Y.
Upson Nut Co., Unionville, Conn., & Cleveland, Ohio

Rivets (Car)

American Iron & Steel Mfg. Co., Lebanon, Pa.
Bourne & Knowles Mfg. Co., Cleveland, O.
Capital Lock Nut & Washer Co., Columbus, O.
Columbus Bolt Works, Columbus, O.
Falls Rivet & Machine Co., Cuyaboga Falls, O.
Hoopes & Townsend Co., 1330 Buttonwood, Philadelphia, Pa.
Kansas City Bolt & Nut Co., Kansas City, Mo.
Lamson & Sessions Co., 2188 Scranton Rd., S. W., Cleveland, O.
Lanz, Mathew & Sons, 101 S 29th, Pittsburg, Pa.
Michigan Bolt & Nut Works, Detroit, Mich.

Moran Bolt & Nut Co., St. Louis, Mo.
Oliver Iron & Steel Co., St. Louis, Mo.
Republic Iron & Steel Co., Frick bldg. annex, Pittsburg, Pa.
Severance, S., Mfg. Co., Glassport Pa.

Rivets (Coopers')

American Screw Co., Providence, R. I.
Atlas Bolt & Screw Co., Cleveland, O.
Berry Bros., E. 1st av. & R. R., Columbus, O.
Falls Rivet & Machine Co., Cuyaboga Falls, O.
Garland Nut & Rivet Co., Pittsburg, Pa.
Hoopes & Townsend Co., 1330 Buttonwood, Philadelphia, Pa.
Lamson & Sessions Co., 2188 Scranton Rd., S. W., Cleveland, O.
Mount Carmel Bolt Co., Mt. Carmel, Conn.
National Screw & Tack Co., Cleveland, O.
Phillips, Townsend & Co., 4th & Glenwood av, Phila., Pa.
Tower Mfg. Co. (Countersunk, etc.), Commerce & Elm, Cincinnati, O., & Madison, Ind.
Union Steel Screw Co., Payne av. & E. 40th, Cleveland, O.
Waterbury Brass Goods Corporation, Waterbury, Conn.

Rivets (Galvanized)

Townsend, C. C. & E. P. Co., New Brighton, Pa.
Keystone Nail Co., Perry bldg., Pa.

Rivets (German Silver)

Blake & Johnson, Waterbury, Conn.
Hassall, Jno., 169 Elm, New York
Progressive Mfg. Co., Torrington, Conn.
Upham, V. B. & Bro., 30 Hudson av, Brooklyn, N. Y.

Rivets (Hame)

American Screw Co., Providence, R. I., & 19 Lake, Chicago, Ill.
Falls Rivet & Machine Co., Cuyaboga Falls, O.
Garland Nut & Rivet Co., Pittsburg, Pa.
Union Steel Screw Co., Payne av. & E. 40th, Cleveland, O.

Rivets (Hinge)

Brewer Bros. (Wrought), 614 Filbert, Phila., Pa.
Falls Rivet & Machine Co., Cuyaboga Falls, O.
Garland Nut & Rivet Co., Pittsburg, Pa.

Rivets (Norway Iron)

American Iron & Steel Mfg. Co., Lebanon, Pa.
Falls Rivet & Machine Co., Cuyaboga Falls, O.
Hassall, John, 171 Lafayette, New York
Hoopes & Townsend Co., 1330 Buttonwood, Philadelphia, Pa.
Jones & Laughlin Steel Co., Pittsburg, Pa.
Michigan Bolt & Nut Works, ft Meldrum av, Detroit, Mich.
Moore, Franklin Co., Winsted, Conn.
Newark Rivet Works (Black, Coppered & Tinned), 146 Monroe, Newark, N. J.
O'DONNELL, JAMES (Broker), 32 La Salle, Chicago, Ill.
Reed & Prince Mfg. Co., Worcester, Mass.
Republic Iron & Steel Co., Frick bldg. annex, Pittsburg, Pa.
Upson Nut Co., Unionville, Conn., & Cleveland, Ohio

*Rivets (Ornamental Steel)

BRAUN, J. G. & CO., 322 S Paulina, Chicago, Ill., & 537 W. 35th, New York, N. Y. (See adv. index, end of book)

Rivets (Pronged)

Standard Rivet Co. (For Fastening Leather, Cloth, etc.), 41 Lincoln, Boston, Mass.

Rivets (Ship)

(See Rivets, Boiler & Tank.)

Rivets (Shovel)

Berry Bros., E. 1st av. & R. R., Columbus, O.
Falls Rivet & Machine Co., Cuyaboga Falls, O.
Garland Nut & Rivet Co., Pittsburg, Pa.
Reed & Prince Mfg. Co., Worcester, Mass.
Union Steel Screw Co., Payne av. & E. 40th, Cleveland, O.

Rivets (Stove)

Berry Bros., E. 1st av. & R. R., Columbus, O.
Falls Rivet & Machine Co., Cuyahoga Falls, O.
Garland Nut & Rivet Co., Pittsburg, Pa.
Lamson & Sessions Co., 2188 Scranton Rd., S. W., Cleveland, O.
Ohio Nut & Bolt Co., Berea, O.

Rivets (Tinner's)

American Screw Co., Providence, R. I.
Atlas Bolt & Screw Co., Cleveland, O.
Atlas Tack Co., Fairhaven, Mass.
Cobb & Drew, Plymouth, Mass., & Rock Falls, Ill.
Falls Rivet & Machine Co., Cuyahoga Falls, O.
Garland Nut & Rivet Co., Pittsburg, Pa.
Grand Crossing Lock Co., Grand Crossing, Chicago, Ill.
Iron Clad Mfg. Co., 204 Varet, Brooklyn, N. Y.
Lamson & Sessions Co., Cleveland, O.
MERCHANT & EVANS CO., INC. (Black & Tin), 517 Arch, Phila., Pa. (See adv. index & branch offices, end of book)
Mount Carmel Bolt Co., Mt. Carmel, Conn.
National Screw & Tack Co., Cleveland, O.
NATIONAL SUPPLY CO., 7 W Lombard, Baltimore, Md. (See adv. index, end of book)
Phillips, Townsend & Co., 4th & Glenwood av., Phila., Pa.
Reed & Prince Mfg. Co., Worcester, Mass.
Taunton Rivet Co., Taunton, Mass.
Tower Mfg. Co., Commerce & Elm, Cincinnati, O., & Madison, Ind.
Townsend, C. C. & E. P., New Brighton, Pa.
Upham, V. B. & Bro., 30 Hudson av., Brooklyn, N. Y.
Upson Nut Co., Unionville, Conn., & Cleveland, O.

Rivets (Tire)

Columbus Bolt Works, Columbus, O.
Falls Rivet & Machine Co., Cuyahoga Falls, O.
Lamson & Sessions Co., Cleveland, O.

Rivets (Tubular)

Tubular Rivet & Stud Co., Wollaston, Mass.

Rivets (Wire)

Falls Rivet & Machine Co., Cuyahoga Falls, O.
Reading Screw Co., Norristown, Pa.

Rivets & Burrs (Brass & Copper)

(See Rivets, Brass & Copper.)

Road Levelers

ACME ROAD MACHINERY CO., Frankfort, N. Y. (See adv. index, end of book)
American Harrow Co., Detroit, Mich. (book)
American Road Machine Co., Kennett Square, Pa.
Austin Mfg. Co., Manhattan bldg., Chicago, & Harvey, Ill.
Climax Road Machine Co., Marathon, N. Y.
Kilbourne & Jacobs Mfg. Co., Columbus, O.
Sidney Steel Scraper Co. (Tongue Scraper, Leveler & Ditcher), Sidney, O.

Road Machines & Graders

ACME ROAD MACHINERY CO. (Reversible), Frankfort, N. Y. (See adv. index, end of book)
Adams, J. D. & Co., Indianapolis, Ind.
American Road Machine Co., Kennett Square, Pa.
Anderson Bridge & Scraper Co., Anderson, Ind.
Austin Mfg. Co., 315 Dearborn, Chicago, Ill., & Harvey, Ill.
Bagley Grader Co., Tacoma, Wash.
Champion Road Machine Co., Kennett Square, Pa.
Climax Road Machine Co., Marathon, N. Y.
Deere & Co. (Graders), Moline, Ill.
Edwards, C. D., Albert Lea, Minn.
Good Roads Machinery Co., Kennett Square, Pa.
Indiana Road Machine Co. ("Indiana" & "National" Reversible Road Graders), Ft. Wayne, Ind.
Kilbourne & Jacobs Mfg. Co. (Graders), Columbus, O.
Marion Steam Shovel Co., Marion, O.
Moore, Joshua, Marseilles, Ill.
Phillip, Rossman, Stockport, N. Y.

Port Huron Engine & Thresher Co., Port Huron, Mich.
SCHOLL, JULIAN & CO., 126 Liberty, New York. (See adv. below; branch offices, end of book)
Shuart Grader Co. ("Ohlo" Reversible), Oberlin, O.
Smith & Sons Mfg. Co., Lydla & Gulnotte av., Kansas City, Mo.
Western Wheeled Scraper Co., Aurora, Ill.

Road Rollers

(See Rollers, various kinds)

Road Scarifiers

Longenecker, Charles & Co., 150 Nassau, New York, N. Y.
SCHOLL, JULIAN & CO. ("Porcupine"), 126 Liberty, New York. (See adv. below; branch offices, end of book)

SCARIFIERS

The "PORCUPINE"

THE ONLY REAL SCARIFIER

JULIAN SCHOLL & CO.

126 LIBERTY ST., NEW YORK, N. Y.

Strain, J. H. Co. ("Torpedo"), 12 Lafayette, New York

Road Scrapers (Drag & Wheel)

ACME ROAD MACHINERY CO. (Drag & Wheel), Frankfort, N. Y. (See adv. index, end of book)
American Road Machine Co. (Drag & Wheel), Kennett Square, Pa.
American Steel Scraper Co. (Drag & Wheel), Sidney, O.
Anderson Bridge & Scraper Co. (Drag & Wheel), Anderson, Ind.
Austin Mfg. Co. (Drag & Wheel), 315 Dearborn, Chicago, & Harvey, Ill.
Carlin's, Thos. Sons Co. (Wheel), 1300 River av., Allegheny, Pa.
Champlain Agr'l Works (Drag), Champlain, N. Y.
Climax Road Machine Co. (Drag & Wheel), Marathon, N. Y.
Comstock, Geo. S. (Cast Iron Road Scoops & Scrapers), Mechanicsburg, Pa.
Donaldson Bros. (Drag), Mount Clemens, Mich.
Empire Plow Co. (Drag), Cleveland, O.
FAIRBANKS, MORSE & CO. (Drag Only), Franklin & Monroe, Chicago, Ill. (See adv. index & branch offices, end of book)
Fresno Agricultural Works (Drag Scrapers), Fresno, Cal.
Good Roads Machinery Co. (Drag & Wheel), Kennett Square, Pa.
Gould Co. (Drag), Chicago, Ill.
Gowanda Agricultural Works (Drag only), Gowanda, N. Y.
Herschel, R. Mfg. Co., Peoria, Ill.
Holt Mfg. Co. (Drag), Stockton, Cal.
Indiana Road Machine Co. ("Indiana" & "National" Drag & Wheel), Fort Wayne, Ind.
Kalamazoo Railway Supply Co., Kalamazoo, Mich.
Kilbourne & Jacobs Mfg. Co. ("Boss." "Columbus." "Drag"), Columbus, O.
Lansing Wheelbarrow Co. (Drag & Wheel), Lansing, Mich.
Lehr Agricultural Co. (Drag), Fremont, O.
Mechanical Mfg. Co. ("Stubbs" Wheeled), Union Stock Yards, Chicago, Ill.
SCHOLL, JULIAN & CO., 126 Liberty, New York. (See adv. above; branch offices, end of book)
SHAW, WILLIS (Drag & Wheel), 171 La Salle, Chicago, Ill. (See adv. index, end of book)
Sidney Steel Scraper Co. ("Haslup's" Drag & Wheel), Sidney, O.
Slusser-McLean Scraper Co. (Drag & Wheel), Sidney, O.
Smith & Sons Mfg. Co. (Drag & Wheel), Kansas City, Mo.
Stewart, Frank (Drag), Washington, Iowa
Stroud, T. F. & Co., Omaha, Neb.
Syracuse Chilled Plow Co., Syracuse, N. Y.
Vicksburg Mfg. Co., Vicksburg, Mich.
Western Wheel Scraper Co. ("Western," "Columbian" Drag & Wheel), Aurora, Ill.
Wilder, J. K. Sons (Drag), Monroe, Mich.

Roasters (Coffee & Peanut)

(See also Coffee, Peanut & Cocoa Bean Roasting Machines.)
Atsatt Bros. ("Acme"), Mattapoisett, Mass.
Bartholomew Co. ("Stunner," "Rival," "Ripper," "Nickel Mint" & "Boss"), Peoria, Ill.
Burns, Jabez & Sons (C.), 542 Greenwch, New York
Crandall & Godley Co. (P.), 157 Franklin, New York
Crestors & Co. (P.), Chicago, Ill.
Dunbar & Co. ("Chicago"), 18 N Desplaines, Chicago, Ill.
Fraser Mfg. Co. (C.), 26 Cortlandt, New York
Hilbert Machine Co. (P.), Cincinnati, O.
Howes, S. Co. (C.), Silver Creek, N. Y.
Kinery Mfg. Co. (C. & P.), ("Perfection" & "Automobile" Steam Power & "Little Gem" & "Climax" Spring Power), 106 E Pearl, Cincinnati, O.
Lalley, M. ("Peerless"), 213 Elm, Cincinnati, Ohio
Lambert Food & Machine Co. (C. & P.), ("Lambert"), Marshall, Mich.
Lane Bros. Co. (C.), Poughkeepsie, N. Y.
Lee, Thos. ("Lee's Boss"), 132 W 2d, Cincinnati, O.
Long, W. Z., Springfield, O.
Mills & Bro. (P.), 1301 N 8th, Phila., Pa.
Paxton Hdw. Mfg. Co. (C.), Paxton, Ill.
Whitman Agl. Co. (C. & P.), St. Louis, Mo.

Rock Crusher Parts

(See Castings, Rock Crusher.)

Rock Face Steel Siding

(See Steel Brick & Rock Face Siding.)

Rock Salt Mfrs.

Retsof Mining Co., 170 B'way, New York
Wadsworth Salt Co., Wadsworth, O.

Rock Wool Mfrs.

(See Mineral Wool Mfrs.)

Rock & Ore Crushers

ACME ROAD MACHINERY CO., Frankfort, N. Y. (See adv. index, end of book)
ALLIS-CHALMERS CO. ("Gates"), Milwaukee, Wis. (See adv. index & branch offices, end of book)
American Concentrator Co. ("New Century Blake" for Ore, etc.), Kennett Square, Pa.
Austin Mfg. Co., Harvey, Ill., & 315 Dearborn, Chicago, Ill.
Bacon, Earle C., 26 Cortlandt, New York
BONNOT COMPANY, Canton, O. (See adv. index, end of book)
BRADLEY PULVERIZER CO., 92 State, Boston, Mass.
Calkins Co. ("Alvance" Ore), Los Angeles, Cal.
Carlin Machinery & Supply Co., Allegheny, Pa.
Carlin's, Thos. Sons Co., 1300 River av., Allegheny, Pa.
Chambers Bros. Co. ("Champion" Steel Rock), 52d bet. Lancaster av., Phila., Pa.
Climax Road Machine Co., Marathon, N. Y.
Coldwell-Wilcox Co. ("Brennan"), Newburgh, N. Y.
CONTRACTORS' SUPPLY & EQUIPMENT CO., Old Colony bldg., Chicago, Ill. (See adv. index & branch offices, end of book)
Cresson, Geo. V. Co. ("Buchanan"), Allegheny av., w. of 17th, Phila., Pa., & 141 Liberty, New York
Denver Engineering Works Co. (Ore), Blake & 30th, Denver, Col.
Exeter Machine Works, Pittston, Pa.
FAIRBANKS, MORSE & CO., Franklin & Monroe, Chicago, Ill. (See adv. index & branch offices, end of book)
Farrel Foundry & Machine Co. (Stone Breakers, etc.), Ansonia, Conn.
FAWCUS MACHINE CO. (Ore only), 2820 Smallman, Pittsburg, Pa. (See adv. index, end of book)
Hassell Iron Works Co., Colorado Springs, Colo.
Hogg, Geo. A. Iron & Steel Foundry Co. ("Foster" Rock), 24th & A. V. R'y, Pittsburg, Pa.
Hoyt, L. E., Walton, N. Y.
Hoyt, L. E. & Co., Walton, N. Y.

Hunt, C. W. Co., 45 B'way, New York, & West
New Brighton, New York City
Indiana Road Machine Co. ("Indiana," "Na-
tional" & "Fort Wayne"), Fort Wayne, Ind.
Krom Machine Works (Ore), 170 B'way, New
York. Works, Jersey City, N. J.
Lake Shore Engine Works, Marquette, Mich.
Martin, William R., Lancaster, Pa.
Merrall Machinery Co. ("Meralls" Roll Rock
Breaker & "Hercules" Ore & Rock
Breaker), 1123 B'way, New York, N. Y.
Mine & Smelter Supply Co. (Ore), Denver,
Col.
Pennsylvania Crusher Co. (Coal & Coke Crush-
ers), Stephen Girard bldg, Phila., Pa.
Philadelphia Roll & Machine Co., S 23d &
Wash'n av, Phila., Pa.
Phillips & McLaren (Blake), 24th & Smallman,
Pittsburg, Pa.
Phoenix Iron Works, Portland, Ore.
Portage Lake Foundry & Machinery Co. (Rock
Breakers Heavy, for Copper & Iron Mines,
etc.), Hancock, Mich.
Port Huron Engine & Thresher Co., Port Huron,
Mich.
Power & Mining Co. ("McCully" Gyratory
Crusher), 52 William, New York. Works,
Cudahy, Wis.
Raymond Bros. Impact Pulverizer Co., 143
Lafin, Chicago.
SCHOLL, JULIAN & CO. ("Reliance"
Stone Crusher), 126 Liberty, New York.
(See adv. below; branch offices, end of book)

ROCK CRUSHERS

The **RELIANCE** Line

OF CRUSHERS AND CRUSHING

PLANT EQUIPMENT

JULIAN SCHOLL & CO.

126 LIBERTY ST., NEW YORK, N. Y.

Schutz-O'Neill Co., Minneapolis, Minn.
SHAW, WILLIS (New & Second Hand),
171 La Salle, Chicago, Ill. (See adv. in-
dex, end of book)
Smith & Post Co. ("Symons," Gyratory Rock
Crusher), Milwaukee, Wis.
South St. Louis Foundry, 7516 S B'way, St.
Louis, Mo.
Strain, J. H. Co. (Stone), 12 Lafayette, New
York
Stroud, E. H. & Co., 36 La Salle, Chicago, Ill.
(See adv. index, end of book)
Sturtevant Mill Co., Clayton, c. Park, Dor.,
Boston, Mass.
Traylor Engineering Co., 114 Liberty, New
York. Works, Allentown, Pa.
Vulcan Iron Works, Wilkes Barre, Pa.
Walker & Elliot (Phosphate), Wilmington, Del.
West'n Wheeled Scraper Co. (Rock), Aurora, Ill.
Williams Patent Crusher & Pulverizer Co.
(Quartz Rock), 2705 B'way, St. Louis, Mo.
YAGLE FOUNDRY & MACHINE CO.
(Ltd.) ("Blake"), 400 32d, Pittsburg, Pa.
(See adv. below)

Rods (Aluminum)

Aluminum Co. of America, Pittsburg, Pa.
LEAVITT, C. W. & CO., 222 Broadway,
New York (See adv. index, end of book)

Rods (Anchor)

American Iron & Steel Mfg. Co., Lebanon, Pa.
AMOS, CHAS. & CO., 94 W Larned,
Detroit, Mich. (See adv. index, end of
book)
Graham Nut Co., W Carson, nr Point Bridge,
Pittsburg, Pa.
Hubbard & Co., Pittsburg, Pa.
Kansas City Bolt & Nut Co., Kansas City, Mo.
Klein, Mathias & Son (For Guy Wires), 87 W
Van Buren, Chicago, Ill.
Lanz, Mathew & Sons, 101 S 29th, Pittsburg,
Pa.
Michigan Bolt & Nut Works, ft Meldrum av,
Detroit, Mich.
Moran Bolt & Nut Mfg. Co., St. Louis, Mo.
National Wire Corporation, New Haven, Conn.
New Castle Forge & Bolt Co., New Castle, Pa.
Pittsburg Rivet Co., 38th & Junction R. R.,
Pittsburg, Pa.
Pawtucket Mfg. Co., Pawtucket, R. I.
Republic Iron & Steel Co., Frick bldg Annex,
Pittsburg, Pa.
Scranton Bolt & Nut Co., Scranton, Pa.
Smith, Thos. & Co., Worcester, Mass.

Rods (Bessemer Coppered)

AMERICAN STEEL & WIRE CO.,
the Rookery, Chicago, Ill. (See adv. index
& branch offices, end of book)
National Wire Corporation, New Haven, Conn.

Rods (Black Steel)

Kidd Bros. & Burgher Steel Wire Co., Ali-
quippa, Pa.

Rods (Brace)

AMERICAN STEEL & WIRE CO.,
the Rookery, Chicago, Ill. (See adv. index
& branch offices, end of book)
National Wire Corporation, New Haven, Conn.

Rods (Bracket)

American Iron & Steel Mfg. Co., Lebanon, Pa.
National Wire Corporation, New Haven, Conn.

Rods (Brake Lever Connecting)

American Iron & Steel Mfg Co., Lebanon, Pa.

Rods (Brass & Copper)

AMERICAN STEEL & WIRE CO.,
the Rookery, Chicago, Ill. (See adv. index
& branch offices, end of book)
Ansonia Brass & Copper Co., Ansonia, Conn.,
& 99 John, New York
Benedict & Burnham Mfg. Co., Waterbury,
Conn.
Bridgeport Brass Co., Bridgeport, Conn., &
19 Murray, New York
Bristol Brass Co. (Brass Only), Bristol, Conn.
Chase Rolling Mill Co., Waterbury, Conn.
Chicago Brass Co. (Brass only), Kenosha, Wis.
Chicago Screw Co. (High Brass only), 2 N
Canal, Chicago, Ill.
Coe Brass Mfg. Co., Torrington, Conn.
Detroit Copper & Brass Rolling Mills, De-
troit, Mich.
Dillon-Grissold Wire Co. (Copper Only), Ster-
ling, Ill.

Hendricks Bros. (Copper Only), 49 Cliff, New
York
**HUNGERFORD, U. T. BRASS & COP-
per Co.** (Yellow Metal & Tobin Bronze), 497
Pearl, New York
Manhattan Brass Co., 338 E 28th, N. Y.
MERCHANT & EVANS CO. (Inc.),
(Jobbers), 517 Arch, Phila., Pa. (See adv.
index & branch offices, end of book)
Plume & Atwood Mfg. Co., Waterbury, Conn.
Rome Brass & Copper Co., Rome, N. Y.
Taunton-New Bedford Copper Co. (Copper,
Yellow Metal), New Bedford & Taunton,
Mass.
Waterbury Brass Co., Waterbury, Conn., & 99
John, N. Y.
Waterbury Rolling Mills (Inc.), Waterbury,
Conn.

Rods (Bridge & Roof)

American Iron & Steel Mfg. Co., Lebanon, Pa.
Columbus Bolt Works, Columbus, O.
Dietrich Bros., 344 North, Baltimore, Md.
Dunne, Geo. W. & Co., 687 Carroll av, Chi-
cago, Ill.
Graham Nut Co., W Carson, nr. Point Bridge,
Pittsburg, Pa.
Hedden Iron Construction Co., 22 Clinton,
Newark, N. J.
Hoopes & Townsend Co., 1330 Buttonwood,
Phila., Pa.
Kansas City Bolt & Nut Co., Kansas City, Mo.
Kinsley Iron & Machine Co., Canton, Mass.
Kropp, A. & Co., 52 Law av, Chicago, Ill.
Lake Erie Iron Co., 155 St. Clair, Cleveland, O.
Lanz, M. & Sons, 101 S 29th, Pittsburg, Pa.
Michigan Bolt & Nut Works, ft Meldrum av,
Detroit, Mich.
Moran Bolt & Nut Mfg. Co., St. Louis, Mo.
**NATIONAL SUPPLY CO., 7 W Lom-
bard,** Baltimore, Md. (See adv. index, end
of book)
Neely Nut & Bolt Co., S 22d & P. & L. R. R.,
Pittsburg, Pa.
New Castle Forge & Bolt Co., New Castle, Pa.
New England Bolt & Nut Co., 267 Atlantic av,
Boston, Mass.
Old Dominion Iron & Nail Works Co., Rich-
mond, Va.
Parkhurst Bros. & Co., 218 Kentucky av, In-
dianapolis, Ind.
Pawtucket Mfg. Co., Pawtucket, R. I.
Payne's Bolt Works, San Francisco, Cal.
Pittsburg Forge & Iron Co., 1003 Penna av,
Pittsburg, Pa.
Pittsburg Rivet Co., Pittsburg, Pa.
Preble, Edward, 103 Summer, E. B., Boston,
Mass.
Republic Iron & Steel Co., Frick bldg Annex,
Pittsburg, Pa.
SCAIFE, WM. B. & SONS CO., 221
1st av, Pittsburg, Pa. (See adv. index, end
of book)
Scranton Bolt & Nut Co., Scranton, Pa.
Smith, Thos. & Co., Worcester, Mass.
Wichita Mfg. Co., Wichita, Kan.
WORDEN-ALLEN CO., P. O. Box 528,
Milwaukee, Wis. (See adv. index & branch
offices, end of book)

Rods (Chair)

Lamson & Sessions Co. (Gimlet Point), Clevel-
land, O.
National Screw & Tack Co., Cleveland, O.
Reed & Prince Co., Worcester, Mass.

THE Blake ROCK AND ORE Crushers

MANUFACTURED BY

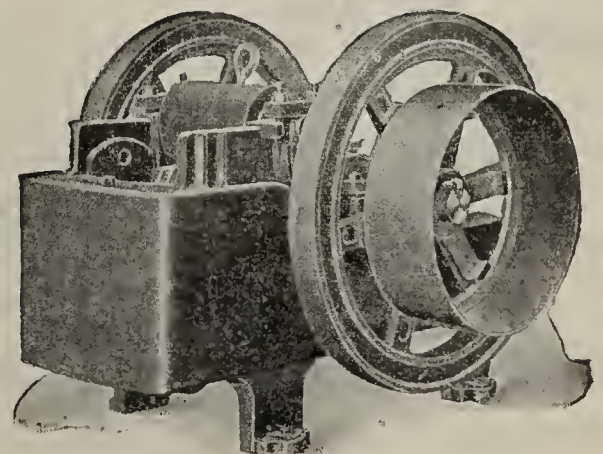
YAGLE FOUNDRY AND MACHINE CO.,

(LIMITED)

400 Thirty-second St., PITTSBURG, PA.

Repair Parts furnished for Eccentric
Pattern Crushers formerly manufact-
ured by the Robinson-Rea Mfg. Co.

ASK FOR CATALOG AND
PRICE LIST



Rods (Conduit Wiring & Cleaning)

Barron, Jas. S. & Co. ("Villard"), 27 Frank-Bissell, F. Co., Toledo, O. lin, New York
Bond, Harold L. Co. ("Felton"), 142 Pearl, Boston, Mass.
Cope, T. J. (Steel), 3244 N 15th, Phila., Pa.
Driggs, C. V., New York.
Kerr Bros. Mfg. Co., Toledo, Ohio.
Meckel, Fred L., Chicago, Ill.
Nagel, W. G. Electric Co. ("Ready"), Toledo, Ohio

Rods (Connecting)

AMERICAN BRAKE SHOE & FOUN-
dry Co. (Cast Steel), 170 B'way, New York.
Works & Sales Office, Chicago Heights, Ill.
(See adv. index & branch offices, end of book)

Bethlehem Steel Co., So Bethlehem, Pa., & 100 B'way, New York
Boston Forge Co., 340 Maverick, E. B., Boston, Mass.
Cambria Steel Co., Johnstown, Pa.
Carnegie Steel Company, General Offices: Pittsburgh, Pa.
Chester Steel Casting Co., 407 Sansom, Philadelphia, Pa., & Chester, Pa.
Crucible Steel Co. of America, Frick bldg, Pittsburgh, Pa.
Dunne, Geo. W. & Co., 687 Carroll av, Chicago, Ill.
Grabam Nut Co., 755 Rebecca, Allegheny, Pa.
Jones & Laughlin Steel Co., Pittsburgh, Pa.
Keystone Drop Forge Works, Chester, Pa.
Midvale Steel Co., Nicetown, Phila., Pa.
NATIONAL SUPPLY CO., 7 W Lombard, Baltimore, Md. (See adv. index, end of book)
Otis Steel Co., Lake cor Lawrence, Cleveland, O
Pettibone, Mulliken & Co., 204 Dearborn, Chicago, Ill.
Pittsburg Mfg. Co., 28th & R. R., Pittsburgh, Pa.
Reading Iron Co., Reading, Pa.
Standard Connecting Rod Co., Beaver Falls, Pa.
Tioga Steel & Iron Co., 52d & Gray's av, Philadelphia, Pa.
Titusville Forge Co., Titusville, Pa.
Transue & Williams Co. (Drop Forged), Alliance, O.
Union Drop Forge Co., 66 E Ohio, Chicago, Ill.

Rods (Curtain)

Estes, E. B. & Sons, 45 John, N. Y. City
Ludlow-Saylor Wire Co., St. Louis, Mo.
National Wire Corporation, New Haven, Conn.
Ossawan Mills Co., Norwich, Conn.
Parker Wire Goods Co., Worcester, Mass.
Pullman Mfg. Co., Rochester, N. Y.
Spencer Wire Co., Worcester, Mass.
Standard Development Co. ("Barrett" Flexible), 52 State, Chicago, Ill.
Turner & Seymour Mfg. Co., Torrington, Conn.
Wire Goods Co., Worcester, Mass.
WRIGHT WIRE CO., Worcester, Mass. (See adv index and branch offices, end of book)

Rods (Dock)

Continental Bolt & Iron Works, 22d & Union, Chicago, Ill.
Kropp, A. & Co., 52 Law av, Chicago, Ill.

Rods (Drill)

AMERICAN STEEL & WIRE CO., the Rookery, Chicago, Ill. (See adv. index & branch offices, end of book)
Crucible Steel Co. of America, Frick bldg, Pittsburgh, Pa.
Damascus Nickel Steel Co., Phila. Bourse, Phila., Pa. Works, Carnegie, Pa.
Globe Wire Co. (Polished), Sharpsburg, Pa.
Halcomb Steel Co. (Crucible Steel), Syracuse, N. Y.
Kidd Bros. & Burgher Steel Wire Co. (Polished, Square & Special), Alliquippa, Pa.
Logan Iron & Steel Co., Burham, Pa., & Harrison bldg, Phila., Pa.
OIL WELL SUPPLY CO., 215 Water, Pittsburgh, Pa. (See adv. index, end of book)
Pittsburg Tool Steel Wire Co., Monaca, Pa.
Taunton Steel Co. (Bright Polished Steel), Taunton, Mass.
Washburn Wire Co., Phillipsdale, R. I., & 118th & E. R., New York

Rods (End Measuring)

Brown & Sharpe Mfg. Co., Providence, R. I.

Rods (Extension Sash Curtain)

Linton, W. H. Co. (Brass & Steel), Ogdensburg, N. Y.

Rods (Eye)

American Iron & Steel Mfg. Co., Lebanon, Pa.
ANDERSON FORGE & MACHINE Co., 271 Guoin, Detroit, Mich. (See adv. index, end of book)
Kansas City Bolt & Nut Co., Kansas City, Mo.
Lanz, M. & Sons, 101 S 29th, Pittsburgh, Pa.
Michigan Bolt & Nut Works, ft Meldrum av, Detroit, Mich.
Moran Bolt & Nut Mfg. Co., St. Louis, Mo.
NATIONAL SUPPLY CO., 7 W Lombard, Baltimore, Md. (See adv. index, end of book)
New Castle Forge & Bolt Co., New Castle, Pa.
Pittsburg Rivet Co., Pittsburgh, Pa.
Republic Iron & Steel Co., Frick bldg Annex, Pittsburgh, Pa.
Scranton Bolt & Nut Co., Scranton, Pa.

Rods (Fibre)

(See Fibre Mfrs., Hard.)

Rods (Fishing)

Martin Automatic Fish Reel Co., Mohawk, N. Y.
Standard Fishing Rod Co. ("Grover Cleveland" Fly & Balt Rod, Split Bamboo, Calcutta, Lancewood, etc.), West Brookfield, Mass.
Union Hardware Co. (Steel), Torrington, Conn.

Rods (German Silver)

Benedict & Burnham Mfg. Co., Waterbury, Conn.
Bridgeport Brass Co., Bridgeport, Conn., & 19 Murray, New York
Bristol Brass Co., Bristol, Conn.
Plume & Atwood Mfg. Co., Waterbury, Conn.
Riverside Metal Co., Riverside, N. Y.
Scovill Mfg. Co., Waterbury, Conn.
Seymour Mfg. Co., Seymour, Conn.
Waterbury Brass Co., Waterbury, Conn., & 99 John, N. Y.

Rods (Glass)

(See Tubing, Glass.)

Rods (Gun Cleaning)

(See Tools, Gun Cleaning & Reloading.)

Rods (Gun Screw)

Independent Steel & Wire Co., Pittsburgh, Pa.

Rods (Guy)

Lanz, M., & Sons, Carson & 29th, Pittsburgh, Pa.
Michigan Bolt & Nut Works, Detroit, Mich.

Rods (Hard Fibre)

(See Fibre Mfrs., Hard.)

Rods (Measuring)

Aloe, A. S. Co., 513 Olive, St. Louis, Mo.
Brown & Sharpe Mfg. Co., Providence, R. I.
Keuffel & Esser Co., 127 Fulton, New York
Pratt & Whitney Co., Hartford, Conn.
Scott, Olin (U. S. Standard), Bennington, Vt.
SOLTMANN, E. G.
(Also everything for the Architect, Engineer & Draughting Room), 125 E 42d, New York. (See adv. index, end of book)
Phosphor Bronze Smelting Co., 2204 Washington, av, Philadelphia, Pa.

Rods (Phosphor Bronze)

Reeves, Paul S. & Son, 1415 Catharine, Philadelphia, Pa.
Riverside Metal Co., Riverside, N. J.

Rods (Piston)

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)
Bethlehem Steel Co., South Bethlehem, Pa., & 100 B'way, New York
Boston Forge Co. (Steel), 340 Maverick, E. B., Boston
Braeburn Steel Co. (Steel), Braeburn, Pa.
Cambria Steel Co., Arcade bldg, Phila., Pa.
Carnegie Steel Company, General Offices: Pittsburgh, Pa.
Carbon Steel Co., Pittsburg, Pa., & 26 Cortlandt, N. Y.
Columbia Bridge Co., Park bldg, Pittsburgh, Pa.
Crucible Steel Co. of America, Frick bldg, Pittsburgh, Pa.
Finished Steel Co. (Polished Steel), Youngstown, O.
Helmbacher Forge & Rolling Mill Co., Wainwright bldg, St. Louis, Mo.
Jones & Laughlin Steel Co., Pittsburgh, Pa.
Midvale Steel Co., Nicetown, Phila., Pa.
Phosphor Bronze Smelting Co. (Ltd.), 2200 Washington av, Phila., Pa.
Reading Iron Co., Reading, Pa.
Standard Steel Works, Harrison bldg, Phila., Pa.
Taunton-New Bedford Copper Co., New Bedford & Taunton, Mass.
Tioga Steel & Iron Co., 52d & Gray's av, Philadelphia, Pa.
Titusville Forge Co., Titusville, Pa.
Union Drawn Steel Co. (Cold Rolled Steel & Iron), Beaver Falls, Pa., & 460 Wash'n, New York, N. Y.

Rods (Pump)

AMERICAN STEEL & WIRE CO., the Rookery, Chicago, Ill. (See adv. index & branch offices, end of book)
AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)
Brightman Mfg. Co. (Galvanized), Shelby, O.
Iron), Beaver Falls, Pa., & 460 Wash'n, New York, N. Y.
Columbia Bridge Co., Park bldg, Pittsburgh, Pa.
Finished Steel Co. (Polished Steel), Youngstown, O.
Independent Steel & Wire Co., Pittsburgh, Pa.
National Wire Corporation, New Haven, Conn.
OIL WELL SUPPLY CO., 215 Water, Pittsburgh, Pa. (See adv. index, end of book)
Taunton-New Bedford Copper Co., New Bedford & Taunton, Mass.
Union Drawn Steel Co. (Cold Rolled Steel & Iron), Beaver Falls, Pa., & 460 Washington, New York

Rods (Rake)

AMERICAN STEEL & WIRE CO., the Rookery, Chicago, Ill. (See adv. index & branch offices, end of book)
Washburn Wire Co., Phillipsdale, R. I., & 118th & E. R., New York

Rods (Ram)

Washburn Wire Co., Phillipsdale, R. I., & 118th & E. R., New York

*Rods (Resistance, Graphite)

DIXON, JOS. CRUCIBLE CO. ("Dixon's"), Jersey City, N. J. (See adv. index & branch offices, end of book)

Rods (Roller Bearing)

AMERICAN STEEL & WIRE CO., the Rookery, Chicago, Ill. (See adv. index & branch offices, end of book)
Kidd Bros. & Burgher Steel Wire Co., Alliquippa, Pa.
Union Drawn Steel Co. (Cold Drawn High Carbon Steel), Beaver Falls, Pa., & 460 Washington, New York, N. Y.
Washburn Wire Co., Phillipsdale, R. I., & 118th & E. R., New York

Rods (Rubber)

(See Rubber Rods, Sheets & Tubing.)

Rods (Sash Curtain)

Wire Goods Co. (Adjustable), Worcester, Mass.

Rods (Screw)

AMERICAN STEEL & WIRE CO., the Rookery, Chicago, Ill. (See adv. index & branch offices, end of book)
Finished Steel Co. (Polished Steel), Youngstown, O.
 Kidd Bros. & Burgher Steel Wire Co. (Polished), Aliquippa, Pa.
 National Wire Corporation, New Haven, Conn.
 Reading Screw Co., Norristown, Pa.

Rods (Side)

Carbon Steel Co., Pittsburg, Pa., & 26 Cortlandt, N. Y.
 Helmsbacher Forge & Rolling Mill Co., St. Louis, Mo.
 Standard Steel Works, Harrison bldg, Phila., Pa.

Rods (Stair)

Carter Stair Rod Co., Altoona, Pa.
 Gould's M. Son & Co. (Brass & Bronze), 83 Reade, N. Y., & 61 Hamilton, Newark, N. J.
 Newark Stair Rod Mfg. Co., Newark, N. J.
 Walker, D. Mfg. Co., Newark, N. J.

Rods (Stove)

Adams Company ("Slotted Heads"), Dubuque, Iowa
 American Screw Co., Providence, R. I., & 19 Lake, Chicago, Ill.
AMERICAN STEEL & WIRE CO. (Polished Steel), The Rookery, Chicago, Ill. (See adv. index & branch offices, end of book)

Atlas Bolt & Screw Co., Cleveland, O.
 Berry Bros. (and Seat), Columbus, O.
 Corbin Screw Corporation, New Britain, Conn.
 Fanner Mfg. Co., Pearl, Cleveland, O.
 Kirk-Latty Mfg. Co., Cleveland, O.
 Lamson & Sessions Co., Cleveland, O.
 Michigan Bolt & Nut Works, ft Meldrum av. Detroit, Mich.

Moran Bolt & Nut Mfg. Co., St. Louis, Mo.
 Mount Carmel Bolt Co., Mount Carmel, Conn.
 National Screw & Tack Co., Cleveland, O.
NATIONAL SUPPLY CO., 7 W Lombard, Baltimore, Md. (See adv. index, end of book)
 Ohio Nut & Bolt Co., Berea, O. (of book)
 Reed & Prince Mfg. Co., Worcester, Mass.
 Troy Nickel works, Albany, N. Y.
 Upson Nut Co., Unionville, Conn., & Cleveland, O.

Washburn Wire Co., Phillipsdale, R. I., & 118th & E. R., New York

Rods (Sucker)

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)

Chapman Sucker Rod Co., Washington, Pa.
 Coss & Stinebaugh, Lima, O.
 Dresser & Boothe, Bradford, Pa.
 Findlay Sucker Rod Co., Findlay, O.
 Kile, S. & W. L. Mansfield, O.
OIL WELL SUPPLY CO., 215 Water, Pittsburg, Pa. (See adv. index, end of book)
 Shannon & Wilson, Corry, Pa.
 Weinman Machine Works (Wood), Columbus, Ohio

Rods (Tedder)

(See Rods, Rake.)

Rods (Tie)

American Equipment Co., Norristown, Pa.
 American Iron & Steel Mfg. Co., Lebanon, Pa.
 Ames, W. & Co., Wash'n c Eteuben, Jersey City, N. J.

CHAMPION IRON CO. (Beam), Kenton, O. (See adv. index, end of book)
 Kansas City Bolt & Nut Co., Kansas City, Mo.
 Lanz, M. & Sons, 101 S 29th, Pittsburg, Pa.
 Michigan Bolt & Nut Works, ft Meldrum av. Detroit, Mich.

Moran Bolt & Nut Mfg. Co., St. Louis, Mo.
 Mulvey, Chas. Mfg. Co., 18 S Jefferson, Chicago, Ill.

NATIONAL SUPPLY CO., 7 W Lombard, Baltimore, Md. (See adv. index, end of book)

New Castle Forge & Bolt Co., New Castle, Pa.
 Old Dominion Iron & Nail Works Co., Richmond, Va.

Pawtucket Mfg. Co., Pawtucket, R. I.
 Penna. Iron Co., Lancaster, Pa.

Republic Iron & Steel Co., Frick bldg Annex, Pittsburg, Pa.
 Scranton Bolt & Nut Co., Scranton, Pa.
 Solid Steel Tool & Forge Co., Brackenridge, Pa.
 Steel Car Forge Co. (Upset or Plain Threaded) Frick bldg, Pittsburg, Pa. Works: Ellwood City, Pa.

Rods (Truss)

(See Rods, Bridge & Roof.)

Rods (Upset)

American Iron & Steel Mfg. Co., Lebanon, Pa.
 Continental Bolt & Iron Works, 23d & Union. Chicago, Ill.
 Fort Pitt Forge Co., 26th & Liberty av, Pittsburgh, Pa.
 Hoopes & Townsend Co., 1330 Bnttonwood. Phila., Pa.
 Michigan Bolt & Nut Works, ft Meldrum av. Detroit, Mich.
 New Castle Forge & Bolt Co., New Castle, Pa.
 Old Dominion Iron & Nail Works Co., Richmond, Va.
 O'Leary, Arthur J. & Sons Co., 103 Lake, Chicago, Ill.
 Pittsburg Rivet Co., Pittsburg, Pa.
 Pittsburg Screw & Bolt Co., Pittsburg, Pa.

Rods (Ventilator Controlling)

Peters, Jas. & Son, 1934 N Front, Phila., Pa.

Rods (Watch Screw)

Kidd Bros. & Burgher Steel Wire Co. (Polished), Aliquippa, Pa.

Rods (Wire)

(See also Wire Mfrs. This list does not include firms who manufacture rods for their own consumption.)

AMERICAN STEEL & WIRE CO., (Of Open Hearth & Bessemer Steel), The Rookery, Chicago, Ill. (See adv. index & branch offices, end of book)

Ashland Steel Co., Ashland, Ky.
 Colorado Fuel & Iron Co., Denver, Colo.
 Dillon-Griswold Wire Co. (Steel & Iron), Sterling, Ill.

Grand Crossing Tack Co. (Bessemer & Open Hearth), S Chicago av & 19th, Chicago, Ill.
 Independent Steel & Wire Co., Pittsburg, Pa.
 Kidd Bros. & Burgher Steel Wire Co. (Polished Steel Rods), Aliquippa, Pa.

Kokomo Wire & Nail Co. (Small), Kokomo, Ind.
 McCoy & Linn (from Charcoal Iron), Milesburg, Pa.

Morgan Spring Co., Worcester, Mass.
 National Wire Corporation, New Haven, Conn.
 Newman, C. Wire Co., 143 Liberty, New York

Norton Iron Works, Ashland, N. Y.
 Page Woven Wire Fence Co., Monessen, Pa.
 Pittsburg Steel Co., Frick bldg, Pittsburg, Pa.

ROEBLING'S, JNO. A. SONS CO. of New York, Trenton, N. J., & 117 Liberty, New York. (See adv. index & branch offices, end of book)

Southern Steel Co., Birmingham, Ala.
 Trenton Iron Co. (Also Nail), Trenton, N. J., & 17 Burling Slip, New York

Washburn Wire Co., Phillipsdale, R. I., & 118th & Harlem River, New York
 Wickwire Bros., Cortlandt, N. Y.

Rods (Wood Saw)

Disston, Hy & Sons (Inc.), Tacony, Phila., Pa., & 75 W Wash'n, Chicago

Rods (Zinc)

Edes Mfg. Co., Plymouth, Mass.
 Lanyon Zinc Co., 308 N 6th, St. Louis, Mo.

Rods & Rams (Steel Hammer)

Bethlehem Steel Co., South Bethlehem, Pa.: & 100 B'way, New York
 Tioga Steel & Iron Co., 52d & Gray's av, Phila., Pa.

Roll Bars & Bed Plates (Paper Mill Engine)

Hankey, A., & Co., Rochdale, Mass., & 1213 Race, Phila., Pa.

Roll Grinding & Corrugating

Acme Mill Works, Greensboro, N. C.
ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index and branch offices, end of book)

Am. Metallic Packing Co., Lexington, Ky.
 Barnard-Syphers Machinery Co., Spokane, Wash.
 Barnard & Leas Mfg. Co., Moline, Ill.
 Barry-Wehmiller Machine Co., St. Louis, Mo.
 Bollinger Bros., 133 1st av, Pittsburg, Pa.
 Capitol Iron Works, Topeka, Kans.

Harrisburg Roll Grinding & Corrugating Co., Harrisburg, Pa.
 Jackson Flour Mills Machinery Mfg. Co., Jackson, Mich.

Nashville Machine Co., Nashville, Tenn.
 Portland Iron Works, Portland, Ore.
 Rochester Roll Grinding & Corrugating Co., 218 Mill, Rochester, N. Y.

Salina Roll Corrugating Machine Co., Salina, Kan.

Silver Bros. Iron Works Co., Salt Lake City, Utah
 Starr, B. F. Co., 445 North, Baltimore, Md.
 Straub Machinery Co., 1956 W 6th, Cincinnati, O.

Roll Trains

FAWCUS MACHINE CO., 2820 Smallman, Pittsburg, Pa. (See adv. index, end of book)
 United Engineering & Foundry Co., Pittsburg, Pa., & Youngstown, O.

Roller Bearings

(See Bearings, Roller.)

Roller Coasters

Ingersoll Construction Co., 307 4th av, Pittsburg, Pa.

Roller & Pulverizer Combined

Brooks & Stuckwisch, Indianapolis, Ind.
 Bucher & Gibbs Plow Co., Canton, O.
 Carnegie Plow & Mfg. Co. ("Weckman" Steel Tubular), Carnegie, Pa.
 Fulton Machine Co. (The Cyclone), Canal Dover, Ohio
 Macgowan & Finigan, St. Louis, Mo.
 Ohio Cultivator Co. (Sizes 6, 7½, 9, 12 ft.), Bellevue, O.
 Peterson Mfg. Co., Kent, O.

Rollers (Barn Door)

Arnold Co., Norwalk, Conn.
 Cheney, S. & Son, Manlius, N. Y.
 Griffin Mfg. Co., Erie, Pa.
 National Mfg. Co. (Stay), Sterling, Ill.
 New England Butt Co., Providence, R. I.
 Wrightsville Hardware Co., Wrightsville, Pa.

***Rollers (Barn Door, Stay)**

RICHARDS MFG. CO., Aurora, Ill. (See adv. index & branch offices, end of book)

Rollers (Concrete)

Kramer Bros. Foundry Co. ("Gem" *Hand Rollers for Cement Sidewalks), Dayton, O.
RANSOME CONCRETE MACHINERY Co., Dunellen, N. J. (See adv. index, end of book)

Rollers (Copper Printing)

(See Textile Machinery, etc.)

Rollers (Flue)

(See Expanders' Tube.)

Rollers (House Movers')

Temple Pump Co., 27 W 15th pl, Chicago, Ill.

Rollers (Incline)

Gustafson Mfg. Co., Chattanooga, Tenn.

Rollers (Land & Field)

Allen, E. R., Corning, N. Y.
 Almy, Samuel & Son, Trumansburg, N. Y.
 American Road Machine Co., Kennett Square, Pa.

Ames Plow Co., Quincy Hall, Boston, Mass.
 Arnold's, W. G. Son, Iona, Mich.
 Avery, B. F. & Sons, Louisville, Ky.
 Barley, Thos. K., Sedalia, Mo.
 Bauch, Freak (Cast Iron), Alliance, O.
 Belcher & Taylor Agricultural Tool Co., Chle-
 pee Falls, Mass.
 Bradley, David Mfg. Co., Bradley, Ill.
 Breunau & Co., Louisville, Ky.
 Brooks & Stuckwisch, Indianapolis, Ind.
 Bucher & Gibbs Plow Co. (Imperial T Bar, Sol-
 id Face), Canton, O.
 Buch's, A. Sons, Elizabethtown, Pa.
 Buffalo Pitts Co., Buffalo, N. Y.
 Burr, E. M. Co., Champlain, Ill.
 Clippier Plow Co., Defiance, O.
 Comstock, Geo. S. (Steel & Wood, Double),
 Mechanicsburg, Pa.
 Cooley Bros. (Miller Steel), Richmond, Mich.
 Daverkosen, H., Jaunesville, Wis.
 Davis Mfg. Co., Flushing, Mich.
 Deats, Hiram, Jr., Pittstown, N. J.
 Deuscher, H. P. Co., Hamilton, O.
 Donaldson Bros. (Iron & Wood), Mt. Clements,
 Mich.
 Drusdieker Foundry & Mfg. Co. (Clod Crush-
 ers & Pulverizers), Pekin, Ill.
 Dunham, J. W. & Son (Steel Frame Pulverizer),
 Berea, O.
 Eddy, W. Plow Co., Greenwich, N. Y.
 Everets & Co., Meridian, N. Y.
 Fulton Machine Co., Canal Fulton, O.
 Gale Mfg. Co. (Steel or Wood Frame), Albion,
 Mich.
 Genesee Valley Mfg. Co., Mt. Morris, N. Y.
 Gowanda Agricultural Works, Gowanda, N. Y.
 Greencastle Mfg. Co., Greencastle, Pa.
 Greenville Implement Co., Greenville, Mich.
 Harder Mfg. Co., Cobleskill, N. Y.
 Harrison, W. R. & Co., Massillon, O.
 Hazen, W. S. & Marshall, Ripon, Wis.
 Hench & Dromgold Co., York, Pa.
 Howland Mfg. Co., Pontiac, Mich.
 I. C. I. Co. (Combined Harrow & Roller), Ann-
 Arbor, Mich.
 Ionia Wagon Co., Ionia, Mich.
 Keystone Farm Machine Co. (Steel or Oak
 Drum), York, Pa.
 Lean, Roderick Mfg. Co. (Steel Land & Corn),
 Lee, R. E., Almont, Mich.
 Lehr Agricultural Co. (Steel Shell), Fremont,
 Ohio.
 Little, O. J., Deckertown, N. J.
 Lovejoy, H. H. & Son, Cambridge, N. Y.
 Macgowan & Finigan, St. Louis, Mo.
 Martinsburg Foundry Co., Martinsburg, Pa.
 Messenger Mfg. Co., Tatamy, Pa.
 Monitor Mfg. Co., Minneapolis, Minn.
 Munnsville Plow Co., Munnsville, N. Y.
 New York Agricultural Co., 51 Cliff, N. Y., &
 Boontou, N. J.
 Ohio Cultivator Co., Bellevue, O.
 Ohio Implement Co., Bowling Green, O.
 Osborne, D. M. & Co., Auburn, N. Y.
 Patten & Stafford Co., Canastota, N. Y.
 Peek, S. H., E. Aurora, N. Y.
 Peterson Mfg. Co., Kent, O.
 Ripson, Wm. & Son, Youngstown, N. Y.
 Rock Island Plow Co., Rock Island, Ill.
 Schoepf, Chas., Gardeville, N. Y.
 Sellers, Edw., Oak Hall Station, Pa.
 Sheer Engine Co., Lincoln, Ill.
 Sherwin, E. C. & Son, Brandon, Wis.
 Standard Harrow Co., Utica, N. Y.
 Sweet, Geo. Mfg. Co., Danville, N. Y.
 Stewart, A. T. Co., Carnegie, Pa.
 Taft, F. B. Mfg. Co., Decatur, Ill.
 Tanner, D. F., Holland, N. Y.

Thompson, J. & Sons Mfg. Co., Beloit, Wis.
 Toledo Plow Co., Toledo, O.
 Turner, Geo. O. P., Churchville, N. Y.
 Van Buren, S. C., Carey, O.
 Watkins Chilled Plow Co., Watkins, N. Y.
 Weaver Mfg. Co., New Oxford, Pa.
 Whitehurst, R. W. Co., Norfolk, Va.
 Whitman Agricultural Works Co., St. Louis, Mo.
 Wilder-Strong Implement Co., Monroe, Mich.
 Willbaum Bros., Brookville, O.
 Williams Bros., Ithaca, N. Y.
 Woodhouse, J. S., 191 Water, N. Y.
 Yorks, W. R., Honeoye Falls, N. Y.

Rollers (Lawn & Garden)

Allen, E. R., Corning, N. Y.
 American Road Machine Co., Kennet Square,
 Pa.
 Ames Plow Co., Quincy Hall, Boston, Mass.
 Bausman, D. H., Bausman, Pa.
 Bradley, David Mfg. Co., Bradley, Ill.
 Breunau & Co., Louisville, Ky.
 Donaldson Bros., Mount Clemens, Mich.
 Dunham, J. W. & Son, Berea, O.
 Eddy, W. Plow Co., Greenwich, N. Y.
 Foster, C. A. Novelty Co., Elkhart, Ind.
 Gowanda Agricultural Works, Gowanda, N. Y.
 Johnston & Field Mfg. Co., Racine, Wis.
KELLY-SPRINGFIELD ROAD ROLLER
 Co. (Steam), Springfield, O. (See adv.
 below)

Lansing Wheelbarrow Co., Lansing, Mich.
 Messinger Mfg. Co., Tatamy, Pa.
 Mott, J. L. Iron Works, 88 Beekman, N. Y.
 New York Agricultural Co., 51 Cliff, N. Y.
 Palmer, O. F., Utica, N. Y.
 Patten & Stafford Co., Canastota, N. Y.
SMITH, F. P. WIRE & IRON WORKS,
 100 Lake, Chicago, Ill. (See adv. index, end
 of book)

Supplee Hardware Co., 503 Market, Phila., Pa.
 Wilder-Strong Implement Co., Monroe, Mich.
 Ohio Implement Co., Bowling Green, O.
 Van Doru Iron Works Co., Cleveland, O.
 Westervelt, A. B. & W. J., 102 Chambers, N. Y.
 Whitehurst, R. W. & Co., Norfolk, Va.
 Whitman Agricultural Works Co., St. Louis,
 Mo.

Rollers (Paper Hangers')

Stortz, Jno. & Son, 210 Vine, Phila., Pa.
 Webster & Perks Tool Co. ("Simplex"),
 Springfield, O.

Rollers (Paper Machine)

BOSTON BELTING CO., 260 Devonshire,
 Boston, Mass. (See adv. index & branch
 offices, end of book)
 Goodrich, B. F. Co., Akron, O.
 Gutta Percha & Rubber Mfg. Co., 126 Duane,
 New York
 Peerless Rubber Co., 16 Warren, New York
 Republic Rubber Co., Youngstown, O.
 Revere Rubber Co., Boston, Mass.
 Voorhees Rubber Mfg. Co., Jersey City, N. J.

*Rollers (Pudding)

SCHOLL, JULIAN & CO. ("Universal" for
 Reservoir & Embankment Work), 126 Lib-
 erty, New York. (See adv. on following
 page; branch offices, end of book)

Rollers (Reversible Road)

Climax Road Machine Co., Marathon, N. Y.
 Enterprise Mfg. Co., Columbiana, O.
 Pope Reversible Street Roller Co., 219 N 4th,
 St. Louis, Mo.
SCHOLL, JULIAN & CO. ("Ohio"), 126
 Liberty, New York. (See adv. on following
 page; branch offices, end of book)

Rollers (Road, Horse Power)

ACME ROAD MACHINERY CO.,
 Frankfort, N. Y. (See adv. index, end of
 hook)
 American Harrow Co., Detroit, Mich.
 American Road Machine Co., Kennett Square,
 Pa.
 Ames Plow Co., Quincy Hall, Boston, Mass.
 Austin Mfg. Co., Manhattan bldg, Chicago,
 Ill., & Harvey, Ill.
 Climax Road Machine Co., Marathon, N. Y.
CONTRACTORS' SUPPLY & EQUIP-
 ment Co., Old Colony bldg, Chicago, Ill.
 (See adv. index & branch offices, end of
 book)
 Enterprise Mfg. Co., Columbiana, O.
 Indiana Road Machine Co. ("Indiana"), Fort
 Wayne, Ind.
 Pioneer Iron Works, 149 Pioneer, Brooklyn,
 N. Y.
SCHOLL, JULIAN & CO. (Plain & Re-
 versible), 126 Liberty, New York. (See adv.
 on following page; branch offices, end of
 book)
 Vulcan Iron Works, Fulton & Irving avs,
 Chicago, Ill.

Rollers (Rubber Covered)

BOSTON BELTING CO. ("Forsyth"), 260
 Devonshire, Boston, Mass., & 100 Reade,
 New York. (See adv. index & branch of-
 fices, end of book)
 Cleveland Rubber Co., Cleveland, O.
 Empire Rubber Mfg. Co., Trenton, N. J.
 Goodrich, B. F. Co., Akron, O.
 Gutta Percha & Rubber Co., Trenton, N. J.
 Manhattan Rubber Mfg. Co., 18 Vesey, N. Y.
 Mechanical Rubber Co., 230 Randolph, Chi-
 cago, Ill.
 New York Belting & Packing Co., Ltd., 91
 Chambers, New York
 N. J. Car Spring & Rubber Co., Jersey City,
 N. J.
 Peerless Rubber Mfg. Co., 16 Warren, New
 York
 Plymouth Rubber Co., Stoughton, Mass.
 Republic Rubber Co., Youngstown, O.
 Revere Rubber Co., Boston, Mass.
 Spinney-Wise Co., Lynn, Mass.

Rollers (Shade)

American Extensive Shade Roller Mfg. Co., Ke-
 waukee, Ill.
 Cowles, C. & Co. (Inc.), (Carriage, etc.),
 Edwards, O. M. Co. (Car, Window, etc.), Syra-
 cuse, N. Y.
 Hartshorn-Stewart Co., Newark, N. J.
 Keystone Shade Roller Co., Saginaw, Mich.
 Michigan Shade Roller & Box Co., Bay City,
 Mich.
 Minette Shade Cloth Co. (Spring), Oswego,
 N. Y.
 Vermont Shade Roller Co., Burlington, Vt.

The Kelly-Springfield Road Roller Company

SPRINGFIELD, OHIO, U. S. A.

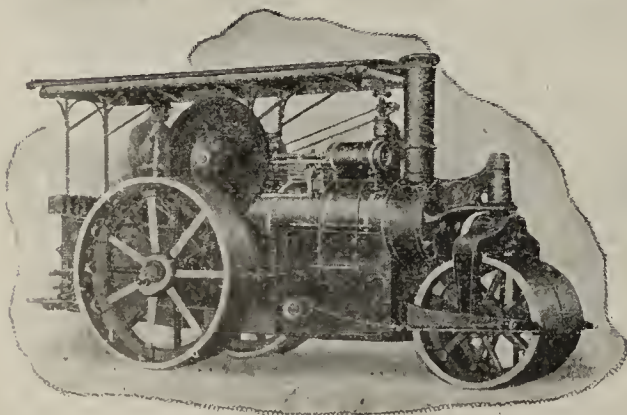
Steam Road Rollers

MACADAM ROLLERS GOLF COURSE ROLLERS
 ASPHALT ROLLERS

ALL KINDS AND ALL SIZES FOR CONTRACTORS, GOV-
 ERNMENT, CITIES AND COUNTIES

1400 IN USE

SEND FOR CATALOGUE



Rollers (Steam Asphalt)

Iroquois Iron Works ("Iroquois"), Buffalo, N. Y.
KELLY-SPRINGFIELD ROAD ROLLER
 Co., Springfield, O. (See adv. on preceding page)
SCHOLL, JULIAN & CO., 126 Liberty, New York. (See adv. below; branch offices, end of book)

Rollers (Steam Golf Course)

Iroquois Iron Works, Buffalo, N. Y.
KELLY-SPRINGFIELD ROAD ROLLER
 Co., Springfield, O. (See adv. on preceding page)

Rollers (Steam Road)

ACME ROAD MACHINERY CO., Frankfort, N. Y. (See adv. index, end of book)
 Buffalo Steam Roller Co. ("Buffalo-Pitts"), Buffalo, N. Y.
 Carlin's, Thos. Sons Co., 1300 River av., Allegheny, Pa.
CONTRACTORS' SUPPLY & EQUIPMENT Co., Old Colony bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
 Erie Machine Shops, Erie, Pa. (book)
 Iroquois Iron Works, Buffalo, N. Y.
KELLY-SPRINGFIELD ROAD ROLLER
 Co., Springfield, O. (See adv. on preceding page)
 Longenecker, Chas., & Co., 150 Nassau, New York
 Monarch Road Roller Co. ("Monarch"), Groton, N. Y.
 Pioneer Machine Works (Jas. Hartley, Prop.), 75 Delavan, Brooklyn, N. Y.
SCHOLL, JULIAN & CO. ("Universal"), 126 Liberty, New York. (See adv. below; branch offices, end of book)

ROAD ROLLERS

Universal Steam Rollers
Enterprise Horse Rollers

THE STANDARDS FOR EVERY SERVICE

JULIAN SCHOLL & CO.

126 LIBERTY ST., NEW YORK, N. Y.

SHAW, WILLIS (New & Second Hand), 171 La Salle, Chicago, Ill. (See adv. index, end of book)
 Strain, J. H. Co., 12 Lafayette, New York.

Rollers (Towel)

(See Racks, Hat, Coat & Towel.)

***Rollers (Trawl)**

McMILLAN'S, W. H. SONS, 153 South, New York. (See adv. index, end of book)

Rolling Mills (Brass & Copper)

AMERICAN STEEL & WIRE CO. (Washburn-Moen Plant), Worcester, Mass. (See adv. index, end of book)
 American Tube Works, 95 Broad, Boston, Mass.
 Ansonia Brass & Copper Co., Ansonia, Conn.
 Baltimore Copper Smelting & Rolling Mill Co., Baltimore, Md.
 Benedlet & Burnham Mfg. Co., Waterbury, Conn.
 Bridgeport Brass Co., Bridgeport, Conn.
 Bristol Brass Co., Bristol, Conn.
 Chase Rolling Mill Co., Waterbury, Conn.
 Chicago Brass Co., Kenosha, Wis.
 Coe Brass Mfg. Co., Torrington, Conn.
 Crucible Steel Co. of Am., Pittsburg, Pa.
 Detroit Copper & Brass Rolling Mills, Detroit, Mich.
 Enreka Tempered Copper Works, North East, Pa.
 French Mfg. Co., Waterbury, Conn.
 Hendricks Bros., 59 Cliff, New York
 Hussey, C. G., & Co., Pittsburg, Pa.
 Manhattan Brass Co., 338 E 28th, New York
 New Haven Copper Co., Seymour, Conn.
 New Jersey Tube Co., Harrison, N. J.
 Nichols Copper Co., 25 Broad, New York
 Phenix Tube Co., 182 N 11th, Brooklyn, N. Y.

Randolph-Clowes Co., Waterbury, Conn.
 Rome Brass & Copper Co., Rome, N. Y.
 Scoville Mfg. Co., Waterbury, Conn.
 Seymour Mfg. Co., Seymour, Conn.
 Spofford, Wm. & Son, Providence, R. I.
 Taunton-New Bedford Copper Co., New Bedford, Mass. & Taunton, Mass.
 Waterbury Brass Co., Waterbury, Conn.
 Waterbury Rolling Mill (Inc.), Waterbury, Conn.
 Wells, A. H., & Co., Waterbury, Conn.

Rolling Mills (Continuous)

Huber, S. V. & Co., Pittsburg, Pa.
 Morgan Construction Co., Worcester, Mass.
 Standard Machinery Co., Providence, R. I.
 United Engineering & Foundry Co., Farmers Bank bldg, Pittsburg, Pa.

Rolling Mills (Iron & Steel)

References following names indicate main or executive offices.
 (See also Brass & Copper Rolling Mills)
 (For sub-classifications of this industry, see Specific Article.)

ALABAMA.

BIRMINGHAM—Republic Iron & Steel Co. (See Pittsburg, Pa.)
 Sloss-Sheffield Steel & Iron Co.
 Southern Steel Co. (Billets, Blooms, Slabs, Pig Iron, Wire, Rods, Fencing, Nails, Staples, etc.)
 Tennessee Coal, Iron & R. R. Co. (Steel Billets, Blooms, Slabs, Angles, Channels, Tees, Bar, Plates, Sheets, etc.)
GADSDEN—Weller Rolling Mill & Forge Co. (Merchant Bar Iron & Steel; T-Rails Special Shapes)
SHEFFIELD—Sheffield Rolling Mill Co. (Merchant Bar Iron, Soft Steel Bands and Hoops, etc.)
 Sloss-Sheffield Steel & Iron Co. (See Birmingham, Ala.)

CALIFORNIA.

SAN FRANCISCO—Judson Mfg. Co. (Bar, Plate & Structural Iron & Steel, Shafting, Tacks, Nails, etc.), Howard & Beale

COLORADO.

DENVER—Colorado Fuel & Iron Co. (Billets, Blooms, Iron & Steel Rails, Bars, Sheets, Angles, Channels, Tees, Plate Bands, Hoops, etc.)

CONNECTICUT.

BRIDGEPORT—American Tube & Stamping Co. (Open Hearth Steel Billets, Hot & Cold Rolled Strip Steel, Crucible Steel for Springs, Cutlery, etc.)
 Farist Steel Co. (Merchants' Steel of all kinds, excepting Sheets.)
NEW BRITAIN—**STANLEY WORKS** (Cold Rolled Strip Steel)
NEW HAVEN—National Steel & Wire Co. (Steel Wire, Rods, Nails, etc.; see New York)
 National Wire Corporation (Steel Wire, Rods, Nails, etc.)
 New Haven Iron & Steel Co. (Bar Iron, Nut & Bolt Rods, etc.)
SOUTHINGTON—Aetna Nut Co. (Merchants' Bar Iron, Nuts, Washers, etc.)
UNIONVILLE—Union Rolling Mill Co. (Merchants' Bar Iron). See Cleveland, O.

DELAWARE.

MARSHALTON—Marshallton Iron & Steel Co. (Tin Plate, etc.)
NEWPORT—Marshall Iron Co. (Sheet Iron & Tin Plate)
WILMINGTON—McCullough Iron Co. (Sheet Iron & Steel, Black, Galvanized, Painted & Corrugated, Roofing & Siding)
 Seldel & Hastings Co. (Charcoal Iron Boiler & Tank Plates, etc.)
 Wilmington Iron Co. (Refined Merchants' Bar Iron)

GEORGIA.

ATLANTA—Atlanta Steel Hoop Co. (Steel Bands, Hoops, Cotton Ties, Bars, etc.)

ILLINOIS.

BELLEVEILLE—Hartman, Hay & Rels (Cut Nail Mills, etc.)
CHICAGO—Aermotor Company (Wrought Iron Pipe), W 12th & Campbell av
 American Rolling Mill Corporation (Merchant Bar & Band Iron), Blue Island av & 14th. Works, Muncie, Ind.
AMERICAN STEEL & WIRE CO. (Steel Wire, Rods & Nails, Spikes, Staples, Tacks, Barbed Wire, Bale Ties, Horse Shoes, Plates & Sheets of Open Hearth Steel, Shafting, Cold Drawn Steel, Poultry Netting, Wire Rope, Wire Hoops, Wire Springs, etc.), Rookery bldg. (See adv. index, end of book)
 Grand Crossing Tack Co. (Bessemer & Open Hearth Steel Wire & Rods, Nails, Tacks, Rivets, Staples, etc.), S Chicago av & 79th
 Illinois Steel Co. (Billets, Blooms, Steel Rails, Plates, Bars, Angles, Channels, Tees, etc.), Rookery bldg
 Inland Steel Co. (Agricultural Steel, Steel Plow Beams, Bars, Angles, Channels, Tees, etc.), 119 Monroe
 International Harvester Co. of America (Agl. Implement Mfrs. etc.), 7 Monroe
 Mark Mfg. Co. (Wrought Iron Pipe & Boiler Tubes), First Nat'l Bank bldg, Mills, Zanesville, O.
 Interstate Iron & Steel Co. (Iron & Steel Bars & Shapes & Small Steel Angles), First Nat'l Bank bldg. Works, East Chicago, Ind.
 Republic Iron & Steel Co. (Bar Iron & Steel, Bolts, Screws, R. R. Spikes, Turnbuckles, Cold Rolled Steel, Angles, Channels, Tees, etc.), First National Bank bldg (of Pittsburg, Pa.)
CHICAGO HEIGHTS—Columbia Tool Steel Co. (Tool Steel)
 Inland Steel Co. (See Chicago)
EAST ST. LOUIS—St. Louis Steam Forge & Iron Works (Bar Iron & Forgings, etc.)
EVANSTON—Mark Mfg. Co. (Wrought Iron Pipe Boiler Tubes, etc.)
 Hoyt Metal Co.
GRANITE CITY—National Enameling & Stamping Co. (See New York)
KEWANEE—Western Tube Co. (Wrought Iron Pipe, etc.)
STERLING—Dillon-Griswold Wire Co. (Steel Wire, Rods & Nails)
WAUKEGAN—American Steel & Wire Co. (See Chicago)

INDIANA.

ANDERSON—American Sheet & Tin Plate Co. (See Pittsburg, Pa.)
 American Steel & Wire Co. (See Chicago)
ATLANTA—**AMERICAN SHEET & TIN** Plate Co. (See Pittsburg, Pa.) (See adv. index, end of book)
 Atlanta Tin Plate & Sheet Mill Co. (See Indianapolis)
BRAZIL—Republic Iron & Steel Co. (See Pittsburg, Pa.)
CRAWFORDSVILLE—Crawfordsville Wire & Nail Co. (Wire & Nails)
EAST CHICAGO—Interstate Iron & Steel Co. (See Chicago, Ill.)
 Republic Iron & Steel Co. (See Pittsburg, Pa.)
ELWOOD—**AMERICAN SHEET & TIN** Plate Co. (See Pittsburg, Pa.) (See adv. index, end of book)
 Elwood Steel Co.
FORT WAYNE—Fort Wayne Rolling Mill Co. (Bar Iron for Cars, Wagons, Chain Rivet & Bridge Rods & Bar Steel)
GAS CITY—**AMERICAN SHEET & TIN** Plate Co. (See Pittsburg, Pa.) (See adv. index, end of book)
INDIANA HARBOR—Inland Steel Co. (See Chicago)
 Ward-Dickey Steel Co. (Open Hearth Planished Sheet Steel)
INDIANAPOLIS—Atlanta Tin Plate & Sheet Mill Co., 25 S Penn
KOKOMO—Kokomo Steel & Wire Co. (Steel Wire, Rods & Nails, etc.)
MUNCIE—American Rolling Mill Corporation. (See Chicago)
AMERICAN SHEET & TIN PLATE Co. (See Pittsburg, Pa.) (See adv. index, end of book)
 Indiana Steel & Wire Co. (Steel & Wire, Wire Nails, etc.)
 Republic Iron & Steel Co. (See Pittsburg, Pa.)

NEW ALBANY—Ohio Falls Iron Co. (Merchants' Bar & Staybolt Iron)
 NEW CASTLE—Indiana Rolling Mill Co.
 TERRE HAUTE—Highland Iron & Steel Co. (Merchants' Bar Iron & Steel)
 VINCENNES—National Rolling Mill Co.

KENTUCKY.

ASHLAND—Ashland Sheet Mill Co. (Sheet Iron & Steel)
 Ashland Steel Co. (Bessemer Steel Billets & Slabs, Sheet Steel, etc.)
 Norton Iron Works, Inc. (Cut & Wire Nails, Wire & Wire Rods, Nail Plates)
 COVINGTON—Licking Coal & Iron Co. (Sheet Iron, Plate Bars, Bands, Angles, Channels & Tees)
 LOUISVILLE—Ewald Iron Co. (See St. Louis)
 NEWPORT—Globe Iron Roofing & Corrugating Co. (Black & Galvanized Sheets, Roofing & Siding, etc.), Newport, Ky.

MARYLAND.

CUMBERLAND—Cumberland Steel Co. (Bar & Tinned Iron & Steel Wire)
 Steel, Crow Bars, etc.)
 Maryland Rail Co. (Light Steel Rails, 12 to 35 lbs.)
 Taylor, N. & G. Co. (See Phila., Pa.)
 SPARROWS POINT—Maryland Steel Co. (See Phila., Pa.)

MASSACHUSETTS.

BOSTON—Sylvester Co. (Merchant Bar Iron, Railroad Iron & Splices, Railroad & Ship Spikes, New & Old Rails, Bolts, Tie Rods, Turnbuckles, Knees, Chairs, Pole Steps, Arm Braces, Forgings, etc.), 70 Kilby
 Tremont Nail Co. (Percha Steel, Ingots, Slabs, Billets, Nail & Tack Plates & Nails & Spikes). (See West Wareham, Mass.)
 CANTON—Kinsley Iron & Machine Co. (Bar Iron, etc.)
 HOLYOKE—Prentiss, G. W. & Co. (Wire, etc.)
 SPENCER—Spencer Wire Co. (See Worcester)
 WEST WAREHAM—Tremont Nail Co. (Percha Steel, Ingots, Slabs, Billets, Nail & Tack Plates & Nails & Spikes)
 WORCESTER—AMERICAN STEEL & Wire Co. (Washburn & Moen Branch). See Chicago. (See adv. index, end of book)
 Morgan Spring Co. (Wire for all purposes & Wire Nails, etc.)
 Spencer Wire Co. (Iron & Bessemer Steel Wire of All Kinds; Fine Steel Wire a Specialty)
 WRIGHT WIRE CO. (Annealed, Bright, Coppered, Tinned & Galvanized Wire) (See adv. index, end of book)

MICHIGAN.

DETROIT—American Car & Foundry Co. (See St. Louis, Mo.)
 Ashland Iron & Steel Co.
 Railway Steel Spring Co. (See New York)
 KALAMAZOO—Harrow Spring Co. (Milled Steel Bars & Spring Steel, etc.)

MISSOURI.

KANSAS CITY—Kansas City Bolt & Nut Co. (Bar Iron, Bolts, Nuts, etc.)
 ST. LOUIS—American Car & Foundry Co. (Bar Iron, etc.), 706 Chestnut
 Ewald Iron Co. (Merchant Bar & Staybolt Iron, etc.) (See Louisville, Ky.), 2306 N B'way
 Granite Iron Rolling Mills (Owners, National Enameling & Stamping Co.), 3400 N 2nd
 Helmbacher Forge & Rolling Mill Co. (Merchants' Bar Iron & Links & Pins). Barton & De Kalb
 Hirsch Rolling Mill Co. (Bar Iron & Steel, Angles, Shapes, Spikes, Bolts, Light Rails, etc.)
 Western Forge Co. (Bar Iron & Forgings), 520 Olive

NEW JERSEY.

BELLEVILLE—Eastwood Wire Mfg. Co. (Steel Wire, etc.)
 CHROME—Chrome Steel Works (Steel Plates, Angles & Bars, etc.)
 DOVER—Ulster Iron Works (Merchant Bar & Staybolt Iron)
 JERSEY CITY—Crucible Steel Co. of America (Spalding & Jennings, Branch). See Pittsburgh, Pa.; also 71 B'way, New York

NEWARK—Heiler Bros. Co. (High Speed Tool Steel)
 PATERSON—Passaic Steel Co. (Steel Beams, Channels, Angles, Tees, High Grade Merchant Bar, etc.)
 PERTH AMBOY—Pardee, C. Works (Planished Steel Bars, Round, Square, Flat, Hexagon for Shafting, Machine Rods, Keys, Guides, etc.)
 PHILLIPSBURG—Andover Iron Co.
 POMPTON—Ludlum Steel & Spring Co. (Crucible Cast Steel & Car & Locomotive Springs)
 TRENTON—Roehling, Jno. A. Sons Co. (Steel & Copper Wire & Steel Wire Rods & Nails, etc.)
 Trenton Iron Co. (Iron & Steel Wire of all kinds, Wire Rope, Bar Iron, etc.)

NEW YORK.

AUBURN—International Harvester Co. of America (Agricultural Implement Mfrs., etc.), Oshorne Plant. (See Chicago, Ill.) (See New York City)
 Tuttle, C. W. & Co. (Merchant Bar Iron)
 BUFFALO—Lackawanna Steel Co. (Steel Billets, Blooms, Rails, Anchor Bars, etc.) (See New York City)
 New York State Steel Co. (4-in. x 4-in. Open Hearth Steel Billets, Blooms & Slabs), White hldg
 Shenandoah Steel Wire Co. (Steel Wire). Works at West Seneca, N. Y.
 COHOES—Cohoes Rolling Mill Co. (Wrought Iron Pipe & Merchant Bar Iron)
 CORTLAND—Wickwire Bros. (Wire, Nails, Rods & Staples, etc.)
 ELMIRA—Elmira Rolling Mills Co. (Bar Iron)
 LOCKPORT—Westerman & Co. (Set Screw Iron, etc., all Shapes)

NEW YORK CITY.

Borough of Brooklyn.

BROOKLYN—Igoe Bros. (Steel Wire & Nails), 69 Metropolitan av
 Miller & Van Winkle (Cold Rolled Steel & Steel Wire), 20 Bridge
 Wurster, F. W. & Co. (Inc.) (Iron & Steel Bars, Axles, etc.), 375 Kent av

Boroughs of Manhattan & Bronx

NEW YORK—American Bridge Co. (Steel Beams, Angles, Channels, Tees, etc.) 42 B'way
 Baldwin Steel Co. (Crucible Tool Steel, Air Hardening, High Speed Die Blocks, etc.), 133 Reade
 Illingworth, John Steel Co. (Crucible & Open Hearth Steel, Sheets, Bars, Forgings & High Grade Tool Steel), 25 Cliff Mills: Reading, Pa.
 Jessop Steel Co., 91 John. Mills, Washington, Pa.
 Lackawanna Steel Co. (Billets, Blooms, Rails, Anchor Bars, etc.), 2 Rector. Mills: Buffalo, N. Y.
 Milliken Bros. (Inc.), 11 B'way
 National Enameling & Stamping Co. (Mfrs. Sheet Steel for their own consumption), 81 Fulton. Works, Granite, Ill.
 Railway Steel Spring Co. (Bar Steel, Railway & Machinery Springs, etc.), 71 B'way
 United States Steel Corporation, 71 B'way
 Washburn Wire Co. (Steel Wire, etc.), ft. E 118th. (See Providence, R. I.)

Borough of Richmond.

MARINER HARBOR—Milliken Bros. (Inc.) (See New York)

(END OF NEW YORK CITY)

ROME—Rome Brass & Copper Co. (Brass & Copper)
 Rome Merchant Iron Mills (Merchant Bar & Staybolt Iron, etc.)
 SYRACUSE—Crucible Steel Co. of America (Sanderson Bros. Works, Tool Steel). (See Pittsburgh, Pa.)
 Eckels-Nye Steel Co. (Merchant Steel)
 Halcomb Steel Co. (Crucible & High Grade Steel)
 TONAWANDA—Buffalo Steel Co. (Bessemer Steel Bars, Agricultural Steel, Angles, Channels, etc.)
 TROY—Burden Iron Co. (Bar Iron, Horse Shoes, Boiler Rivets, etc.)
 WEST SENECA—Shenandoah Steel Wire Co. (Steel Wire). (See Buffalo, N. Y.)

OHIO.

CAMBRIDGE—AMERICAN STEEL & Wire Co. (See Chicago.) (See adv. index, end of book)
 CANTON—Interstate Iron & Steel Co. (See Chicago, Ill.)
 Carnahan Tin Plate & Sheet Co. (Tin & Terne Plate & Sheet Steel for Tinning, etc.)
 Stark Rolling Mill Co. (Sheet Iron & Steel, etc.)
 United Steel Co. (Skelp, Slabs, Billets, Basic Open Hearth Steel Sheet Bar & Universal Plate)
 CLEVELAND—Cleveland Hardware Co. (Manufacture for their own consumption), Lakeside av, N E & E 45th
 Cleveland Machine & Mfg. Co., 4944 Hamilton av
 Cleveland Steel Co. (Steel Plates & Sheets, etc.), 1170 E 38th
 Empire Rolling Mill Co. (Bar Iron, etc.), Bessemer av & C. & P. R. R.
 Lake Erie Iron Co. (Bar Iron, Bolts, Nuts, etc.), E 63d & Lakeshore av
 Otis Steel Co. (Fire Box, Flange, Ship & Tank Plates, Steel Axles of all kinds, Steel Castings & Forgings, etc.), 3131 Lakeside av, N E
 Republic Iron & Steel Co., Citizens' Bank bldg. (See Pittsburgh, Pa.)
 Stewart Iron Co. (Muck Bar, Neutral, Special Low Phosphorus Bars, etc.), Perry-Payne Bldg. Works, Sharon, Pa.
 Union Rolling Mill Co. (Merchant Bar Iron, etc.), Aetna & C. & P. R. R.
 COLUMBUS—Columbus Forge & Iron Co. Standard Chain Co. (See Pittsburgh, Pa.)
 CUYAHOGA FALLS—Acme Wire Co. (Steel Wire, Rods & Nails, etc.)
 Falls-Hollow Staybolt Co. (Hollow & Solid Staybolt Iron & Staybolts, etc.)
 ELYRIA—Columbia Steel Co. (Cold Rolled Steel)
 Elyria Iron & Steel Co. (High Carbon Steel, Angles, Tubing, Track Spikes, etc.)
 IRONTON—Belfont Iron Works Co. (Cut Nail Mills, etc.)
 LORAIN—National Tube Co. of Ohio. (See Pittsburgh, Pa.)
 MIDDLETOWN—AMERICAN ROLLING Mill Co. (Sheet Iron & Steel, Black & Galvanized, etc.) (See adv. index, end of book)
 NEW PHILADELPHIA—AMERICAN Sheet & Tin Plate Co. (See Pittsburgh, Pa.) (See adv. index, end of book)
 NILES—AMERICAN SHEET & TIN Plate Co. (See Pittsburgh, Pa.) (See adv. index, end of book)
 Carnegie Steel Co. (See Pittsburgh, Pa.)
 Empire Iron & Steel Co. (Wrought Iron & Steel Sheets & Corrugated Sheets)
 Niles Iron & Sheet Co. (Sheet Iron & Steel, Black & Galvanized, etc.)
 NORWALK—Norwalk Steel & Iron Co. (Steel Bars, Forgings & Plates, Plow, Jail & Vault & Tool Steel, etc.)
 PORTSMOUTH—Portsmouth Pressed Steel Co. (Pressed Steel)
 Portsmouth Steel Co. (Bar Steel, etc.) See Wheeling, W. Va.
 PIQUA—AMERICAN SHEET & TIN Plate Co. (See Pittsburgh, Pa.) (See adv. index, end of book)
 SALEM—American Steel & Wire Co. (See Chicago, Ill.)
 SEBRING—Keystone Steel Co. (Crucible Steel & Chilled Steel)
 STEUBENVILLE—La Belle Iron Works (Pipe & Tube Mills, Steel Sheet Bar, Steel Skelp, Cut Nails, Splkes, Plg Iron, etc.)
 TOLEDO—Republic Iron & Steel Co. (See Pittsburgh, Pa.)
 WELLSTON—Wellston Steel & Iron Co.
 YOUNGSTOWN—Republic Iron & Steel Co. (See Pittsburgh, Pa.)
 Youngstown Sheet & Tube Co. (Iron & Steel Sheet, Black & Galvanized, Wrought Iron Pipe & Boiler Tubes, Muck Bar, Skelp, Youngstown Steel Co. Pig Iron, etc.)
 Youngstown Iron & Steel Roofing Co. (Sheet Iron & Steel, Black & Corrugated Roofing & Siding, etc.)
 ZANESVILLE—Mark Mfg. Co. (Wrought Iron Pipe & Boiler Tubes) (See Chicago, Ill.)
 Muskingum Valley Steel Co. (Iron & Steel Sheets, Black, Plain & Painted Corrugated & "V" Crimped, Refined Iron Sheets & Electrical Sheets, etc.)

PENNSYLVANIA.

ALBUQUERQUE—Crucible Steel Co. of America. (See Pittsburgh)
 Kidd Bros. & Burger Steel Wire Co. (Steel Wire, Polished Drill Rods, Polished Needle Wire, Black Steel Rods, etc.)
 Vulcan Crucible Steel Co. (High Grade Crucible & Acid Open Hearth Steel & Steel Billets, etc.)
ALLEGHENY—American Steel Band Co., 109 Madison av
 American Steel & Wire Co. (See Chicago, Ill.)
ALLENTOWN—American Steel & Wire Co. (See Chicago, Ill.)
ALTOONA—Altoona Iron Co. (Bands & Hoops)
AVONMORE—Aicania Company (Tin Plate). See Pittsburgh, Pa.
 Union Drawn Steel Co. (Cold Rolled Steel, Cold Drawn & Polished Steel Shafting, etc.)
BRACKENRIDGE—Allegheny Steel Co. (Sheet Steel & Sheet Bars) (See Pittsburgh, Pa.)
 Interstate Steel Co. (See Pittsburgh, Pa.)
 Reliance Tube Co. (Ltd.), (Steel & Charcoal Boiler Tubes, Locomotive Tubing, Line Pipe, Casing, etc.)
BRADDOCK—Carnegie Steel Co. (See Pittsburgh, Pa.)
 Griswold Wire Co. (Wire & Bale Ties, etc.)
BRAEBURN—Braeburn Steel Co. (Fine Open Hearth Tool Steel, Spring, Hammer & Machinery Steel & Forgings, etc.)
BRISTOL—Bristol Iron & Steel Co.
BURNHAM—Logan Iron & Steel Co. (Bar & Staybolt Iron, Iron Angles, Crow Bars, Links & Pins, Drill Rods, etc.) (See Phila., Pa.)
 Standard Steel Works (Steel Tires & Axes, etc.) (See Phila., Pa.)
BUTLER—Standard Steel Car Co. (See Pittsburgh, Pa.)
CANONSBURG—Canonsburg Steel & Iron Works
 Standard Tin Plate Co. (Tin & Terne Plate)
CARNEGIE—Damascus Nickel Steel Co. (High Grade Tool & Machinery Bar Steel & Nickel Steel). See also Phila., Pa.
 Superior Steel Co. (Cold & Hot Rolled Strip Steel)
CATASAUQUA—Bryden Horse Shoe Co. (Horse Shoes & Horse Shoe Bars)
CHESTER—South Chester Tube Co. (Wrought iron Pipe & Tubes)
COATESVILLE—Coatesville Rolling Mills Co. (Plates & Sheets, etc.)
 Lukens Iron & Steel Co. (Steel Billets, Plates, etc.)
 Worth Bros. Co. (Steel Boiler & Tank Plate, Lap Welded Charcoal Wrought Iron Boiler Tubes, etc.)
COLONA—Pittsburg Tube Co. (See Pittsburgh)
COLUMBIA—Janson Steel & Iron Co. (Bar Iron & Steel)
 Susquehanna Iron & Steel Co. (Refined Bar Iron, Wrought Iron Pipe, Skelp & Plate Mills)
CONNELLSVILLE—Sligo Iron & Steel Co. (Flange & Tank Steel, Bessemer & O. H. Blue Annealed & Wrought Iron Plates & Sheets, Bar Iron, etc.)
CONSHOHOCKEN—Longmead Iron Co. Wrought Iron Pipe & Skelp Iron, etc.)
 Wood, Alan Iron & Steel Co. (Black & Galvanized Sheet Iron & Steel, Locomotive Jacket Iron, Planished & Polished Steel Sheets & Steel Tank Plate, etc.) (See Phila., Pa.)
 Wood, J. & Bros. Co. (Iron & Steel Sheets & Light Plates, Locomotive Jacket, Corrugated Bath Boiler, Gas Holder, Pickled Blue Annealed Tank & Electrical Sheet Iron & Steel, etc.)
CORRY—McInnes Steel Co. ("Extra" Air Hard Tool Steel & Forgings)
DANVILLE—Reading Iron Co. (See Reading, Pa.)
DEMMLER—Firth-Sterling Steel Co. (Tool Steel)
DUNCANNON—Duncannon Iron Co. (Merchant Bar Iron, etc.), See Phila., Pa.
ELLWOOD CITY—Shelby Steel Tube Co. (See Pittsburgh, Pa.)
 Standard Seamiess Tube Co. (Seamiess Boiler Tubes, etc.) (See Pittsburgh, Pa.)
ETNA—Spang, Chalfant & Co. (See Pittsburgh, Pa.)
FRANKLIN—Franklin Rolling Mill & Foundry Co. (Rolled Steel for Light Structural Work)

GLASSPORT—Pittsburg Steel Co. (See Pittsburgh, Pa.)
 Pittsburg Steel Hoop Co. (See Pittsburgh, Pa.)
GREENVILLE—Shelby Steel Tube Co. (See Pittsburgh, Pa.)
HARRISBURG—Bailey, Chas. L. & Co. (Inc.) (Cut Nail Mills, etc.)
 Central Iron & Steel Co. (Iron & Steel Bridge & Boiler Plate, etc.)
 Harrisburg Pipe & Pipe Bending Co. (Wrought Iron & Steel Pipe, Open Hearth Steel Billets, Ingots, Skelp, Slabs, Shovel Plate, Sheet Bars, etc.)
 Harrisburg Rolling Mill Co.
 Lucknow Iron & Steel Co. (Steel Fire Box Plate, etc.)
 Tyrone Iron Co. (Boiler Tubes, etc.)
HOLLIDAYSBURG—Eleanor Iron Co. (Merchant Bar Iron & Skelp, etc.) (See Tyrone, Pa.)
HOOPERSTON—Hoopes & Townsend Co. (See Phila., Pa.)
HOPE CHURCH—Monongahela Iron & Steel Co. (Carter Bar Iron & Low Phosphorus Melting Bar, Staybolt Iron, etc.)
JOHNSTOWN—Cambria Steel Co. (Steel Billets & Blooms, Rails, Beams, Angles, Channels & Tees, etc.) (See Phila., Pa.)
 Lorain Steel Co. (Light Rails & Street Railway Materials) (See Phila., Pa.)
KITTANNING—Kittanning Iron & Steel Mfg. Co.
LANCASTER—Penn. Iron Co. (Bar Iron, Bolts, Nuts, etc.)
LATROBE—Latrobe Steel Co. (See Phila., Pa.)
LEBANON—American Iron & Steel Mfg. Co. (Merchant Bar Iron & Steel, Bolts, Nuts, Washers, Turnbuckles, Lag Screws, etc.)
 Lebanon Chain Works (Inc.)
 Lebanon Valley Iron Co. (Bar Iron)
 West End Rolling Mill Co. (Bar Iron, also Rivet, Car Link & Staybolt Iron, Bridge & Horse Shoe Rods, Chains of all kinds)
LEECHBURG—West Leechburg Steel Co. (Hot & Cold Rolled Strip Steel). (See Pittsburgh, Pa.)
McKEESPORT—Boston Iron & Steel Co. (See National Tube Co., Pittsburgh, Pa.)
 McKeesport Tin Plate Co. (Tin, Terne & Black Plate) (See Port Vue, Pa.)
McKEES ROCKS—Lockhart Iron & Steel Co. (Bar, Bands & Hoops, Angles, Channels & Tees, etc.)
MIDDLETOWN—American Tube & Iron Co. (See National Tube Co., Pittsburgh, Pa.)
MILTON—American Car & Foundry Co. (Merchants Bar Iron) (See St. Louis, Mo.)
 Godcharles, F. A. Co. (Muck Bar, Cut Nails & Spikes)
 Milton Mfg. Co. (Merchant Bar Iron, Bolts, Nuts, Rivets, etc.)
MONACA—Colonial Steel Co. (See Pittsburgh, Pa.)
 Pittsburg Tool Steel Wire Co. (Drill Rods, Needle Wire, etc.)
MONONGAHELA—Liggett Spring & Axle Co. (Axes & Springs) (See Pittsburgh, Pa.)
MONESSEN—Carnegie Steel Co. (See Pittsburgh, Pa.)
 Pittsburg Steel Co. (See Pittsburgh, Pa.)
NEW BRIGHTON—Townsend, C. C. & E. P. (Steel Wire, Bolts, Nuts & Nails, etc.)
NEW CASTLE—AMERICAN SHEET & Tin Plate Co. (See Pittsburgh, Pa.)
 American Steel & Wire Co. (See Chicago, Ill.)
 Atlantic Iron & Steel Co. (Skelp Iron, etc.)
 Carnegie Steel Co. (See Pittsburgh, Pa.)
 Elliott, Blair Steel Co. (Bright Cold Rolled Strip Steel, etc.)
 New Castle Forge & Bolt Co.
NEW KENSINGTON—Pittsburg Reduction Co. (Aluminum, etc.)
NORTHUMBERLAND—Van Allen & Co. (Cut Nail Mills, etc.)
PARKESBURG—Parkesburg Iron Co. (Charcoal Boiler Tube, Iron Skelp)
PENCOYD—American Bridge Co. (Steel Beams, Angles, Channels, Tees, Zees, Bar Steel, etc.)
PHILADELPHIA—American Bridge Co. (Steel Beams, Angles, Channels, Tees, Zees, Bar Steel, etc.). Penna. bldg
 Andover Iron Co., 421 Chestnut
 Cambria Steel Co. (Steel Beams, Bars, Angles, Channels, Tees, Cold Rolled Steel, etc.), Arcade bldg
 Damascus Nickel Steel Co. (High Grade Tool & Machinery Bar Steel & Nickel Steel), Bullitt bldg
 Davis Bros. (Bar Iron, Angle Iron Up to 2 Inches, Spikes, etc.), 29th & Bristol

Disston, Henry & Sons, Inc. (Tool & Sheet Steel, Cold Rolled Strip Steel, etc.), Tacony
 Gaulbert & Caskey (Merchants Bar Iron, etc.), N. American & York
 Hamilton's, Thos. Sons (Wire Mfrs., 1342 Vienna
 Hoopes & Townsend Co. (Bolts, Rivets, Rods, etc.), 1330 Buttonwood
 Hillingworth, Jno. Steel Co., Frankford. (See New York)
 Latrobe Steel Co. (Steel Locomotive & Car Wheel Tires, etc.), Girard bldg. Works, Latrobe, Pa.
 Logan Iron & Steel Co. (Bar & Staybolt Iron, Iron Angles, Crow Bars, Links & Pins, Drill Rods, etc.) North American bldg. Works, Burnham, Pa.
 Lorain Steel Co. (Light Rails & Street Railway Track Materials), Penn. bldg
 Maryland Steel Co. (Steel Billets, Rails & Plg Iron, etc.), Girard bldg. Works, Sparrows Point, Md.
 Midvale Steel Co. (Bar Steel, Billets, Bars, Rods, Spring Steel, etc.), Nicetown
 New Haven Iron & Steel Co. (Bar Iron, Nut & Bolt Rods, etc.), Land Title bldg
 Penna. Steel Co. (Steel Billets, Blooms, Beams, Angles, Channels, etc.), Bar Steel & Railroad Specialties, etc.), Girard bldg
 Phoenix Iron Co. (Open Hearth Steel by Acid & Basic Process, Beams, Angles, Channels, Deck Beams, Tee & ee Bars, Bulb Angles, Buckle Plates Round, Flat & Square Bars, Upset Eye Bars, etc.), 410 Walnut
 Standard Steel Works (Steel Tires, Axes, etc.), Harrison bldg. Works, Burnham, Pa.
 Taylor, N. & G. Co. (Steel Sheets & Plates & Tin & Terne Plate Mfrs.), 409 Mariner & Merchant bldg
 Wood, Alan Iron & Steel Co. (Basic Open Hearth Steel Billets, Slabs, Sheet Bars & Universal Mill Plates, Black & Galvanized Iron & Steel Sheets & Plates, Locomotive Jackets, Bath Boiler, Swede & Norway Sheets, Gas Holder, Corrugated, Pickled & Cold Rolled Sheets, Electrical Iron & Steel, Water Pipe & Light Plates), 519 Arch
PHOENIXVILLE—Phoenix Iron Co. (See Phila., Pa.)
PITTSBURG—Aicania Co. (Tin & Terne Plate), 348 6th av
 Allegheny Steel Co. (Sheet Steel & Sheet Bars), Farmers Bank bldg
AMERICAN SHEET & TIN PLATE Co. (Bessemer Open Hearth, Acid & Basic Sheet Iron & Steel; Black, Planished, Polished, Galvanized & Corrugated, Cold Rolled Tin & Terne Plate, etc.), Frick bldg. (See adv. Index, end of book)
 American Steel & Wire Co., Frick bldg. (See Chicago, Ill.)
 Brown & Co. (Inc.) (Tool Steel, Refined Bar & Hammered Iron for Special Purposes), 10th & Duquesne Way
 Byers, A. M. Co. (Inc.) (Wrought iron Pipe, etc.), 235 Water
 Canonsburg Iron & Steel Co. (Sheet Iron & Steel, Tin & Terne Plate, etc.), 421 Wood
 Carbon Steel Co. (Open Hearth Steel, Billets, Blooms, Boiler & Bridge Plate, Nickel Steel, Car Axes & General Forgings, etc.), 32d & Smallman
 Carnegie Steel Co. (Steel Billets & Blooms, Rails, Beams & Structural Shapes, Armor & Boiler Plate, etc.), Carnegie bldg
 Clearfield Steel & Iron Co. (Light Rails, Muck Bar, Skelp, etc.), Empire bldg. Mills: Clearfield, Pa.
 Clinton Iron & Steel Co. (Boiler Plate, etc.), 256 West Carson
 Colonial Steel Co. (Crucible & Open Hearth Steel in Bars, Sheets, Circular Plates, etc.), 320 4th av
 Columbia Bridge Co. (Polished Turned Steel Shafting, Forged Shafts & Cold Drawn Shapes, etc.), Rankin station
 Crucible Steel Co. of America (Steel Billets, Blooms, Crucible Tool Steel, Merchant Bar Steel, Boiler & Tank Plate, Cold Drawn & Polished Steel Shafting, Cold Rolled Steel & General & Nickel Steel Forgings), Frick bldg
 Tie Plates, Railroad Spikes, etc.), 313 6th av
 Follansbee Bros. Co. (Tin & Terne Plate), 3d & Liberty av
 Independent Steel & Wire Co. (Wire, Rods, Nails, etc.)
 Interstate Steel Co., Works, Brackenridge, Pa.

Jones & Laughlin Steel Co. (Steel Billets & Blooms, Beams, Channels, Angles, Tees, Zees, Plates, Bars, Bands, Rails up to 40 lbs., Cold Rolled Shafting & Fittings, Chain, Rivets, Spikes, Forgings, etc.)

McClure Co. (Tin & Terne Plate), 12 4th av

McKay, Jas. Co. (Chains, etc.), 421 Wood

Mackintosh, Hemphill & Co., foot of 12th

Monongahela Iron & Steel Co. (Bar Iron, Staybolt Iron, Iron Chains, etc.)

Monongahela Tube Co. (Iron & Steel Boiler Tubes), Ferguson bldg

National Tube Co. (Wrought Iron & Steel Pipe & Boiler Tubes, etc.), Frick bldg

National Tube Co. of Ohio (Works, Lorain, Ohio)

Ollver Iron & Steel Co. (Light Rails, Angles, Channels, Bolts, Nuts, etc.), S 10th & Murel

Parkersburg Iron & Steel Co. (Steel Sheets & Plates, etc.), 421 Wood. (See Parkersburg, W. Va.)

Pittsburg Forge & Iron Co. (Merchant Bar & Staybolt Iron, etc.), 1003 Penna av

Pittsburg Spring & Steel Co.

Pittsburg Steel Co. (Steel Wire, Rods & Nails, Steel Bands & Hoops, Staples, Cotton Ties, Barbed Wire, etc.), Frick bldg

Pittsburg Tube Co. (Pipe & Tube Mills), 326 4th av; works, Colona, Pa.

Pope Tin Plate Co. (Tin Plate), 421 Wood

Refined Iron & Steel Co.

Republic Iron & Steel Co. (Bar Iron & Steel, Bolts, Screws, Railroad Spikes, Turnbuckles, Cold Rolled Steel, Angles, Channels, Tees, etc.), Frick bldg

SCAIFE, WM. B. & SONS CO. (Iron & Steel Sheet, Black & Galvanized, Bars & Boiler Tank Plates), 221 1st av. (See adv. index, end of book)

Shenango Iron & Steel Co. (Refined Iron Bars, Muck Bar, Iron Skelp, Mills, Wheatland, Pa.)

Sligo Iron & Steel Co. (Flange & Tank Steel, Bessemer & O. H. Blue Annealed & Wrought Iron Plates & Sheets, Bar Iron, etc.) (See Connellsville, Pa.)

Spang, Chalfant & Co. (Inc.) (Pipe & Tube Mills, Bar Iron & Steel, etc.), 307 4th av

Standard Chain Co. (Chains of all kinds, Light Rails, etc.), 525 3d av

Standard Steel Car Co. (Steel Cars), Frick bldg

West Leechburg Steel Co. (Hot & Cold Rolled Strip Steel), Farmers' Bank bldg. Works, Leechburg, Pa.

Zug Iron & Steel Co. (Ltd.) (Sheet Steel, Black & Galvanized & Blacksmith & Machinery Bars, etc.), 13th & Etna

PORT VUE—McKeesport Tin Plate Co. (Tin, Terne & Black Plate)

POTTSTOWN—Glasgow Iron Co. (Steel Plates)

Lessig, Geo. B. Co. (Tack, Nail & Shovel Plate & Puddle Bars, etc.)

Potts Bros. Iron Co. (Plate, Sheet & Skelp Iron, Muck Bars, etc.)

POTTSVILLE—Eastern Steel Co. (Steel Beams & Structural Shapes, Bridge Plate, etc.).

READING—American Iron & Steel Mfg. Co. (See Lebanon, Pa.)

Carpenter Steel Co. (Tool Steel, Gun Steel, Roller Steel, Machinery Steel, etc.)

Reading Iron Co. (Merchant Bar, Light Rails, Wrought Iron Pipe, Staybolt Iron, Boiler & Tank Plate, etc.)

Seyfert, Sam'l R. & Bro. (Bar Iron, Boiler & Tank Plate, Pipe Iron, etc.)

Seyfert, Simon (Est. of) (Boiler & Tank Plate, etc.)

SCHUYLKILL HAVEN—Schuylkill Haven Rolling Mills, F. H. Clement & Co., of Phila., Pa. (Merchant Bar Iron, etc.)

SCOTTDAL—AMERICAN SHEET & Tin Plate Co. (See Pittsburg, Pa.) (See adv. index, end of book)

SCRANTON—Kemmerer Iron & Steel Co., Scranton Bolt & Nut Co. (Bar Iron, Bolts, Nuts, etc.)

SHARON—Carnegie Steel Co. (See Pittsburg, Pa.)

National Steel Co. See Pittsburg, Pa.

Republic Iron & Steel Co. See Chicago.

Sharon Steel Hoop Co. (Steel Bands & Hoops, Bar & Sheet Steel, etc.)

Stewart Iron Co. (Muck Bar, Neutral, Special Low Phosphorus Bars, etc.)

Wilkes Rolling Mill Co. (Sheet Iron & Steel, Merchant Bar Iron)

SHARPSBURG—Globe Wire Co. (Steel Wire, etc.)

Moorhead Bros. & Co., Inc. (Wrought Iron Pipe)

SLATINGTON—Slatington Rolling Mill Co. (Merchant Bar Iron)

SOUTH BETHLEHEM—Bethlehem Steel Co. (Steel Billets & Blooms, Armor Plate, Steel Bar, Light Rails, etc.)

STEELTON—Penna. Steel Co. (See Philadelphia, Pa.)

TITUSVILLE—Burgess, Chas. Cyclops Steel Works (Refined Hammered Bar Iron)

TYRONE—Eleanor Iron Co. (Also Hollidays-Pa. Tyrone Iron Co. (See Harrisburg, Pa.)

UNIONTOWN—Stewart Iron Co. (See Sharon, Pa.)

WASHINGTON—Jessop Steel Co. (See New York City)

McClure Co. (See Pittsburg, Pa.)

Tyler Tube & Pipe Co. (Pipe & Tube Mills)

WAYNESBURG—Griffith, W. H. Co. (Tin Plate, etc.)

Waynesburg Forge, Sheet & Tin Mills

Iron & Soft Steel Sheets, Black & Galvanized, Tin Plate Mfrs., etc.)

Waynesburg Pressed Steel Co.

WHEATLAND—Shenango Iron & Steel Co. (See Pittsburg, Pa.)

WILLIAMSPORT—Sweet's Steel Co. (Merchant Bar Steel, Special Open Hearth, Steel, Toe Calks, Crow Bars, Harrow Teeth, Steel Tire, Machinery Steel, Calking Steel, Soft Steel, etc.)

Williamsport Iron & Nail Co. (Bar Iron & Cut Nails, etc.)

WILSON—Monongahela Tube Co. (Iron & Steel Boiler Tubes) (See Pittsburg, Pa.)

WRIGHTSVILLE—Princess Iron Co.

WYOMING—Wyoming Shovel Works (Steel Sheets & Light Plates & Shovel Mfrs.)

YORK—Susquehanna Iron & Steel Co. (See Columbia, Pa.)

RHODE ISLAND.

PHILLIPSDALE—Washburn Wire Co. (Steel Billets, Steel Wire Rods & Nails, etc.) (See Providence)

TENNESSEE.

BRISTOL—Virginia Coal, Iron & Coke Co. (Steel Billets & Blooms)

KNOXVILLE—Knoxville Iron Co. (Light Rails, Merchant Bar Iron)

VIRGINIA.

RADFORD—Virginia Iron, Coal & Coke Co. (See Bristol, Tenn.)

RICHMOND—Old Dominion Iron & Nail Works Co. (Iron Bands & Hoops, Bar, Staybolt Iron, etc.)

Tredegear Co. (Merchant Bar Iron)

WASHINGTON.

SEATTLE—Seattle Steel Co.

WEST VIRGINIA.

CLARKSBURG—Phillips Sheet & Tin Plate Co. (Tin & Terne Plate & Sheet Steel)

FAIRMONT—Fairmont Steel Co. (Light Rails Up to 50 Pounds)

HUNTINGTON—Huntington Rail Mfg. Co. (Light Rails, etc.)

PARKERSBURG—Parkersburg Iron & Steel Co. (Bar & Sheet Iron & Steel)

WHEELING—Portsmouth Steel Co. (Steel Billets, Slabs, Boiler Plate Bar, Angles, Channels, etc.)

Wheeling Corrugating Co. (Whitaker Works) (Iron & Steel Sheet)

Wheeling Steel & Iron Co. (Steel Billets & Blooms, Iron & Steel Sheets, Skelp, Muck, Bar, Nails, Spikes & Wrought Iron & Steel Pipe)

Whitaker Iron Co. (Sheet Iron & Steel)

WISCONSIN.

ASHLAND—Asbland Iron & Steel Co. (See Detroit, Mich.)

CEDARBURG—Cedarburg Wire & Wire Nail Co. (Wire, Nails & Screws, etc.)

MILWAUKEE—Illinois Steel Co. (See Chicago, Ill.)

SOUTH MILWAUKEE—Eagle Horse Shoe Co. (Merchant Bar Iron & Horse Shoes)

Rolls (Beam Bending)

Lewis Foundry & Machine Co., 1001 Bingham, Pittsburg, Pa.

Rolls (Bending & Straightening)

Badger State Machine Co., Janesville, Wis.

Bertsch & Co. (Hand or Power for Plates, Sheets, Angles, Angle Iron, etc.), Cambridge City, Ind.

BETHLEHEM FOUNDRY & MACHINE Co. (Combined Belt or Hand Power), Front, South Bethlehem, Pa., & 149 B'way, New York. (See adv. index, end of book)

Betts Machine Co., Wilmington, Del.

Birdsboro Steel Foundry & Machine Co., Birdsboro, Pa.

Cincinnati Punch & Shear Co., Cincinnati, O.

CLEVELAND PUNCH & SHEAR WORKS Co. (Plate), 1306 E 40th, Cleveland, O. (See adv. index, end of book)

Eastern Forge Co. of Mass., 70 Kilby, Boston

Hilles & Jones Co., Wilmington, Del.

Lewis Foundry & Machine Co., Pittsburg, Pa.

Long & Allstatter Co. (Tire Bending, etc.), Hamilton, O.

MORGAN ENGINEERING CO. (Plate Bending, etc.), Alliance, O. (See adv. index, end of book)

New Doty Mfg. Co., Janesville, Wis.

NIAGARA MACHINE & TOOL WKS., (Plate), Buffalo, N. Y. (See adv. index, end of book)

Niles-Bement-Pond Co., 111 B'way, New York

PERKINS MACHINE CO. (Hand & Power Bending), Warren, Mass. (See adv. index, end of book)

Phila. Roll & Machine Co. (Hand & Belt Power, Plate, etc.), S 23d & Wash'n av, Phila., Pa.

Pittsburg Mfg. Co., 28th & R. R., Pittsburg, Pa.

Queen City Punch & Shear Co., 208 Lawrence, Cincinnati, O.

Seilers, Wm. & Co. (Inc.), 1600 Hamilton, Phila., Pa.

United Engineering & Fdy. Co., 54th & Av Ry, Pittsburg, Pa.

Whiting, Geo. Co., 156 W North av, Chicago, Ill.

Wickes Bros. (Plate, etc.), Saginaw, Mich.

Rolls (Blue Print)

Continental Rubber Works, Erie, Pa.

Lovell Mfg. Co. (and for Mechanical Work), Erie, Pa.

Rolls (Chilled Calender)

AITON MACHINE CO., 126 Liberty, New York. Works: Harrison, N. J. (See adv. index, end of book)

Currier, Cyrus & Son, Newark, N. J.

Emerson Mfg. Co., Lawrence, Mass.

Farrel Foundry & Machine Co., Ansonia, Conn.

Garrison, A. Fdy. Co., 9th & Bingham, S S, Pittsburg, Pa.

Holyoke Machine Co. (Chilled Iron, Paper, Cotton & Husk), Holyoke & Worcester, Mass.

Kitson Machine Co., Lowell, Mass.

Lobdell Car Wheel Co., Wilmington, Del.

Perkins, B. F. & Son (Spined Paper Calender), Holyoke, Mass.

Poole, J. Morton Co., Wilmington, Del.

Pusey & Jones Co., Wilmington, Del.

Rice, Barton & Fales Machine & Iron Co., Worcester, Mass.

Sandy Hill Iron & Brass Works, Sandy Hill, N. Y.

Rolls (Copper Printing)

Rome Brass & Copper Co., Rome, N. Y.

Rolls (Crimping & Corrugating)

(See also Machinery, Sheet Metal Workers')
Bertsch & Co., Cambridge City, Ind.

BLISS, E. W. & CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)

Keene, Geo. C. & Co., 2327 Montgomery rd, Cincinnati, O.

New Doty Mfg. Co., Janesville, Wis.

NIAGARA MACHINE & TOOL WKS., Buffalo, N. Y. (See adv. index, end of book)

Robinson, J. M. Mfg. Co., 2d & Central av, Cincinnati, O.

Rolls (Crushing)

ALLIS-CHALMERS CO., Milwaukee, Wis.
(See adv. index & branch offices, end of book)

American Concentrator Co. ("New Century"
Belt Driven, etc.), Joplin, Mo.

BONNOT COMPANY (Clay, etc.), Canton, O. (See adv. index & branch offices, end of book)

Buckeye Iron & Brass Works, Dayton, O.

Colorado Iron Works Co., Denver, Col.

Cresson, Geo. V. Co., Allegheny av, W of 17th, Phila., Pa., & 141 Liberty, New York

Davis, F. M., Iron Works Co., Denver, Col.

Denver Engineering Works Co. (Without Springs), Blake & 30th

Farrel Foundry & Machine Co., Ansonia, Conn.

Fritsch, Arthur Foundry & Machine Co., 216 Gratiot, St. Louis, Mo.

Hamilton, Wm., Mfg. Co., Peterborough, Ontario, Canada

Helman, A., & Bros. (For Sand Stone), Massillon, O.)

Hoagland's, M. Sons Co., Rockaway, N. J.

Krom Machine Works ("Krom" Cushioned), 170 B'way, New York, Jersey City, N. J.

Marquette, Jno. N., 507 S Eden, Baltimore, Md.

Mine & Smeiter Supply Co., Blake & 17th, Denver, Colo.

Montgomery, J. H. Machinery Co., 1220 Curtis, Denver, Colo.

Philadelphia Roll & Machine Co., S 23d & Wash'n av, Phila., Pa.

Power & Mining Machinery Co., 52 William, New York, Works, Cudahy, Wis.

Scaife Foundry & Machine Co., Pittsburgh, Pa.

South St. Louis Foundry, 7516 S B'way, St. Louis, Mo.

Stearns, Roger Mfg. Co., 1718 California, Denver, Col.

Stedman's Foundry & Machine Wks., Aurora, Ind.

Traylor Engineering Co., 114 Liberty, New York, Works, Allentown, Pa.

WELLMAN - SEAVER - MORGAN CO., Cleveland & Akron, O. (See adv. index, end of book)

Rolls (Dandy)

BIGELOW, CHENEY WIRE WORKS, Springfield, Mass. (See adv. index, end of book)

Brown & Seilers Co., Holyoke, Mass.

Buchanan & Bolt Wire Co., Holyoke, Mass.

Eastwood Wire Mfg. Co., Belleville, N. J.

Gleeson, Thos. E., 411 John, East Newark, N. J.

Globe Wire Cloth Co., Harrison, N. J.

Smith, C. H. & Co., Holyoke, Mass.

***Rolls (Flaking)**

ALLIS-CHALMERS CO., Milwaukee, Wis.
(See adv. index & branch offices, end of book)

Rolls (Forged Steel)

Birmingham Iron Foundry, Derby, Conn.

Trethewey, Samuel & Co. (Ltd.) (Hardware), 47th near Butler

Rolls (Forging & Tapering)

Ajax Mfg. Co., Cleveland, O.

Rolls (Grinding)

Poole, J. Morton Co. (Paper Mill, etc.), Wilmington, Del.

Sandy Hill Iron & Brass Works (For Paper Mills), Sandy Hill, N. Y.

Rolls (Grinding & Corrugating)

Buffalo Engine Co., Buffalo, N. Y.

Nordyke & Marmon Co., Indianapolis, Ind.

Poole, J. Morton Co., Wilmington, Del.

Robinson, J. M. Mfg. Co., Cincinnati, O.

Rolls (Hand & Belt Power, Bending)

NIAGARA MACHINE & TOOL WKS., Buffalo, N. Y. (See adv. index, end of book)

Whitcomb-Glaidell Machine Tool Co., Worcester, Mass.

Rolls (Hub Band Bending & Truing)

Williams, White & Co., Moline, Ill.

Rolls (Jewelers')

Philadelphia Roll & Machine Co., S 23d & Wash'n av, Phila., Pa.

Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.

Rolls (Lap Welding)

United Engineering & Foundry Co. (Single & Double for Pipe & Tube Mills), Pittsburgh, Pa.

Rolls (Leather Pressure)

Barry & Zecher Co., Lancaster, Pa.

Rolls (Lime)

Union Iron Works Co., Selma, Ala.

Rolls (Live)

ALLIS-CHALMERS CO. (Also Drives), Milwaukee, Wis. (See adv. index & branch offices, end of book)

Southern Engine & Boiler Works (Inc.), (For Saw Mills), Jackson, Miss

Rolls (Plate Bending)

(See Rolls, Bending & Straightening.)

Rolls (Ribbon Solder)

Marquette, Jno. N., 507 S Eden, Baltimore, Md.

Rolls (Rubber)

BOSTON BELTING CO. ("Forsyth"), 260 Devonshire, Boston, Mass., & 100 Reade, N. Y. (See adv. index & branch offices, end of book)

Continental Rubber Wks., Erie, Pa.

Diamond Rubber Co., Akron, O.

Goodrich, B. F. Co. (Rubber), Akron, O.

Lake Shore Rubber Co. (Wringer), Erie, Pa.

Lovell Mfg. Co. (For Laundries, Woolen Mills Tanneries, etc.), Erie, Pa.

Manhattan Rubber Mfg. Co., 18 Vesey, N. Y. & Passaic, N. J.

New York Belting & Packing Co. (Rubber Covered), 91 Chambers, New York

Republic Rubber Co., Youngstown, O.

Spinney-Wise Co., Lynn, Mass.

Rolls (Sand, Chilled & Steel)

(See also Machinery, Rolling Mill.)

American Roll & Foundry Co. (Sand & Chilled only), Canton, O.

American Sheet & Tin Plate Co., Roll & Machine Works (Sand Chilled & Semi-Steel), Canton, O.

Birmingham Iron Foundry (Sand & Chilled only), Derby, Conn.

Black-Clawson Co., Hamilton, O.

Blake & Johnson (Hardened Steel & Chilled Iron), Waterbury, Conn.

Centre Foundry Co. (Sand), Wheeling, W. Va.

Davenport Foundry & Machine Co. (Sand & Chilled & Semi-Steel), Davenport, Ia.

Farrel Foundry & Machine Co. (Chilled & Sand), Ansonia, Conn.

Garrison, A. Foundry Co. (Chilled), 9th & Bingham, Pittsburgh, Pa.

Hess Snyder Co. (Sand Only), Massillon, O.

Hogg, Geo. A., Iron & Steel Foundry Co. (Chilled, Sand, Steel & Semi Steel), 24th & A. V. Ry., Pittsburgh, Pa.

Hyde Park Foundry & Machine Co. (Sand & Chilled), Hyde Park, Pa., & Frick bldg Pittsburgh, Pa.

Lewis Foundry & Machine Co. (Sand & Chilled), 1001 Bingham, Pittsburgh, Pa.

Lobdell Car Wheel Co. (Sand & Chilled Cast Iron), Wilmington, Del.

Mackintosh, Hemphill & Co. (Steel only), 12th, Pittsburgh, Pa.

Mesta Machine Co., Lewis blk, Pittsburgh, Pa.

Phila. Roll & Machine Co., S 23d & Wash'n av, Phila., Pa.

Phillips, F. R. & Sons Co., Penna bldg, Phila., Pa.

Pittsburg Steel Foundry Co., Pittsburg, Pa.

Reading Iron Co., Reading, Pa.

Riverside Foundry Co. (Chilled & Sand), Cleveland, O.

Seaman-Sleeth Co. (Sand & Chilled Only), 41st & A. V. Ry., Pittsburg, Pa.

Townsend Furnace & Machine Shop Co. (Soft & Chilled Only), Albany, N. Y.

Trethewey, Samuel & Co. (Ltd.), 47th st., nr Plummer, Pittsburg, Pa.

United Engineering & Foundry Co. (Hardened & Forged), Farmers' Bank bldg, Pittsburg, Pa.

Waterbury Farrel Foundry & Machine Co. (Sand Chilled & Semi-Steel), Waterbury, Conn.

West Penn Foundry & Machine Co. (Sand, Chilled & Semi-Steel), Avonmore, Pa.

Wetherill, Robert & Co., Chester, Pa.

Wheeling Mold & Foundry Co. (Sand & Chilled), Wheeling, W. Va.

Youngstown Foundry & Machine Co. (Sand, Chilled, Semi-Steel), Youngstown, O.

Rolls (Typewriter)

Goodrich, B. F. Co. (Rubber), Akron, O.

Voorhees Rubber Mfg. Co., Jersey City, N. J.

Rolls (Wood)

NOVELTY TURNING CO. (For Perforated Music), Norway, Me. (See adv. index, end of book)

Tatem, J. B. & Son (Lawn Mower & Heavy), Putnam, Conn.

Roof Coatings

(See Cements, Roofing.)

***Roof Gutters (Galvanized Steel)**

INDIANAPOLIS STEEL ROOFING & Corrugating Co., Indianapolis, Ind. (See adv. index, end of book)

Roof Joint

Parker, E. L. & Co. ("Reese Patent," Water Tight, Expanding, etc.), Baltimore, Md.

Roof Paving Compound

Powell, M. W. Co. ("Actinolite"), 204 Dearborn, Chicago, Ill.

Protoxide Compound Mfg. Co. ("Protoxide"), 14 S Broad, Phila., Pa.

Roof Putty

Armitage Mfg. Co., Richmond, Va.

FRENCH, SAMUEL H. & CO., 4th & Callowhill, Phila., Pa. (See adv. index, end of book)

MILWAUKEE CORRUGATING CO. (Jobbers), Milwaukee, Wis. (See adv. index, end of book)

When writing to firms whose names appear in this book please mention

HENDRICKS' COMMERCIAL REGISTER.

*Roof Snow Guards

CLASON ARCHITECTURAL METAL
Works ("H. B." & "Clason"), 428 Kins-
ley av, Providence, R. I. (See adv. on fol-
lowing page)

CLASON SNOW GUARD

428 Kinsley av, Providence, R. I. (See
adv. on following page)

Cleveland Wire Spring Co., Wasson & Hamilton,
Cleveland, O.

Folsom Snow Guard Co., 44 Kittredge, Boston.
Mass.

GILMAN SNOW GUARD

103 Merrimac, Boston, Mass. (See adv.
below)

HUNGERFORD, U. T. BRASS &
Copper Co. (The "Gilman" Copper & Gal-
vanized Iron), 497 Pearl, New York
Peter, F. N. & Bro. ("Never Break"), Newside,
Pa.

Roofers (Plastic Slate)

Aeolian Plastic Slate Roofing Co. (Tile, Brick
& Slate Paved Roofs), 163 W 23d, New
York

Casmento Roofing Co., 160 5th av, New York

Foy, Edw. L. & Co., 16 W Camden, Baltimore

Granite Plastic, Slate & Slag Roofing Co., 882
Ryan, Baltimore, Md.

Griffin Roofing Co., 62 10th av, N. Y.

Laura, John & Co., 160 5th av, N. Y.

Noble, H. & Co., 623 S Caroline, Baltimore,
Md.

WRIGHT WIRE CO., Worcester,
Mass. (See adv. index, end of book)

Roofers, Tinnners, Etc.

NOTE—The words in parentheses (Comp.,
Metal, Slate & Tile) following the names of
Roofers, indicate composition, metal, slate &
tile roofers. Those not indicated are tin or
metal roofers.

See also Cornices, Galvanized Iron; also Iron
& Steel, Corrugated; also Roofing Materials;
also Roofing & Siding, Iron & Steel; also Roof-
ing Slate; also Roofing Tile; also Shingles,
Metallic; also Roofing Felt; also Skylights;
also Building & Sheathing Papers; also Roof-
ing Paints; also Cement Roofing

ALABAMA.

ALEXANDER CITY—Turner, T. B.

ANNISTON—Anniston Supply Co. (Slate, Metal
& Gravel)

ATHENS—Le Grand, S. E.

BESSEMER—Bessemer Cornice Works (Slate &
Metal Comp.)

BIRMINGHAM—Alabama Metal Roofing Co.

Bain, C. A.

Birmingham Paint & Roofing Co.

East Birmingham Iron Roofing & Cor. Co.

Heaven, Geo.

Holtam Bros.

Merrell, Lee

Spiro, S. (Slate, Metal, etc.), 1920 3d av

Wheelock, Geo. F. Co. (Slate & Metal)

BRIERFIELD—McCullum, W. W.

DECATUR—Brown, W. A. (Slate & Metal)

DEMOPOLIS—Braswell Hardware Co.

EAST BIRMINGHAM—(See Birmingham)

EUFAULA—Folsom, G. W.

Folsom, C. J. & Co.

Ross, J. L.

Shelly & Co.

GREENVILLE—Dunklin, J. H. & Co.

Johnson, J. F. Hardware Co.

Morman, J. M.

HUNTSVILLE—Davis, R. N.

Dreger, Oscar

Johnson, J. R.

JACKSONVILLE—Neshitt, Walter

MARION—Mitchell, Thos. C.

MOBILE—Cunningham Hardware Co.

McMillin Bros. Co.

Partridge, C. S. Hardware Co. (Metal &
Slate)

Phelan Bros.

Pope, John A.

Starks, C.

Tillson, Walter

White & Benson

Wintergerst, C., 555 Dauphin

MONTGOMERY—Chambliss & Chambliss

Flood, D. F.

Hegenwald, John G.

Kennedy Co.

Kernell, Thos. M.

Pope, D. & Son

Wilson, J. B. & Co.

NEW DECATUR—Decatur Cornice & Roofing

Yates, W. C. & Co. Co. (Slate & Metal)

OPELIKA—Benton, J. F.

Galbraith, W. A.

ROANOKE—Neal, F. A.

SELMA—Boisman, H.

Tinch, A. L.

TALLADEGA—Michael, J. E.

TROY—Jolly, Mrs. A. E. & Co.

TUSCALOOSA—Robertson, J. R.

Seed, W. D. & Co.

TUSCUMBIA—Halsey, W. G. & H. L.

UNION SPRINGS—Anderson, F.

UNIONTOWN—Brown, James J.

ARIZONA.

BISBEE—Ord, E. G. Co.

GLOBE—McNeil, J. P.

PHOENIX—Burtis, D. H.

Evans, Wm.

PRESCOTT—Brown Bros.

Kiehl, E.

TUCSON—Corbett, W. J. (Iron)

Gardiner, Worthen & Gross Co. (Steel)

Julian, W. A. Co.

Tucson Hdw. Co.

ARKANSAS.

ARGENTA STATION—Gerard, Joseph

BATESVILLE—Baker, G. A.

Rosenthal, C. T.

BRINKLEY—Rider, W.

CORNING—Bailey, C. L.

DARDANELLE—Goodier, Joe

EUREKA SPRINGS—Lloyd, W. J.

FORREST CITY—Hodges, Sam.

The Gilman Spiral Snow Guard.

Absolute Protection Against Snow Slides.

**USED EVERYWHERE
BY EVERYBODY.**

TEL. 1990 HAYM'T.

**FOR NEW ROOF'S
FULL SIZE.**

FOR ROOFS ALREADY LAID.

GILMAN SNOW-GUARD CO., 103 MERRIMAC ST., BOSTON, MASS.

C. H. GILMAN, Prop't

SAMPLE BY MAIL ON APPLICATION



U. T. HUNGERFORD BRASS & COPPER CO.
501 PEARL STREET, NEW YORK.

FORT SMITH—Ft. Smith Cornice & Plumbing Co. (Slate, Metal & Gravel), 16 N 5th Neodemus Bros.
HELENA—Bulow, Paul
 Helena Tin & Plumbing Co.
HOPE—Halliburton, C.
 McKee, K. G.
HOT SPRINGS—Black, W. H. & Co.
 Dixon & Runyon
 Donnelly, E. C.
 Williams, Schurder & Co.
JONESBORO—Christian Bros.
 Lane, J. H.
LITTLE ROCK—Foster Hardware Co., 301 Main
 Haley, Neff & Co.
 Hollaud, M. C.
 Ketcher & Schmuck
 McCardell Bros., 522 Center
 Neff, R.
 Robinson, J. K. & Co., 108 E 4th
 Simmons & Mayer
 Stewart, B. W. (General), 215 W 2d
MAGNOLIA—Taylor, Chas. E.
MARIANNA—Plummer & Davis
MENA—Garrison, Geo.
MONTICELLO—McQuiston, L. D. & Co.
MORRILLTON—Kleinschmidt, Louis
 Patton, John & Co.
OZARK—Maxey, J. F.
PARAGOULD—Starry, Martin L.
PINE BLUFF—Brewer, John
 Dellmon, John H., Jr. (Slate & Metal)
 Rafferty Bros.
 Fox Bros. Hardware Co. (Slate & Metal)
 Steck, John H.
SEARCY—Sells & Sells
TEXARKANA—Hoffman Hardware Co.
 Wagner, Louis
WARREN—Gill, M. T.

CALIFORNIA.

ALAMEDA—Fischer, C. F. Plumbing Co.
 Furey, Frank P.
ANAHEIM—Bennesscheidt, Jos.
 Miller, L. E.
ANTIOCH—Christensen, N. E.
ARCATA—Arcata Hardware Co.
 Crawford, C. C. Co.
AUBURN—Breslin, J. H., Jr.
 White, J. K.
BAKERSFIELD—Quincy Plumbing Co.
BERKELEY—Driggs-Butterfield Co.
 McNamara, J. M.
 Menges, J. J.
CHICO—Earle, W. H.
 Hubbell, L. L.
 Jewell, R. S.
 Newman, J. F.
CLOVERDALE—Williams, O. O.
COLUSA—Mitchell, H. & Son
 Roche, Jas.
CONCORD—Breckenridge, M. N.
 Pacheco, Chas.
ELK GROVE—Longnecker, A. J.
ETNA MILLS—Eller, E. J.
EUREKA—Moore & Cooke Co.
FERNDALE—Kausen & Williams Hardware Co.
FORTUNA—Leach & Smith
FRESNO—Barrett-Hicks Co.
 Donahoo, Emmons & Co.
 Dreyer, E. O.
 Fohn, F. A. & Son
 Kutner, Goldstein Co.
 McHugh, M. P.

GALT—Orvis, J. L.
GEYSERVILLE—Haupt, Julius
GILROY—Chappell, G. A. & Co.
 Robinson Hardware Co.
GRASS VALLEY—Clausen, C.
HALF MOON BAY—Rathbone, C. E.
HANFORD—Foster, Fred.
HAYWARDS—Brunner, H. E., B st.
 Dale, Wm.
 Jorgensen, Geo. & Co.
 Linekin & Allen, Main st
HEALDSBURG—Garrett, A. W.
 Gunn & Ferguson
 Raabe, M.
IONE—Jones & McCall
IRVINGTON—Hirsch, O. N. & Co.
JACKSON—Garbarini Bros.
LEMORE—Moore, Robert A.
LINCOLN—McBride, C. J.
LIVERMORE—Anthony, Mrs. M. S.
 Carroll & Co.
 Dutcher, N. D.
LOS ANGELES—Berry, B. R.
 Biller, J. B.
 Bittleson, S.
 Blake, Moffit & Towne, 242 S Los Angeles
 Campbell, J. A., 802 Temple
 Hannas, L. H. & Son, 1219 W Wash'n
 Harper & Reynolds Co., 152 N Main
 Hellman, Jas. W.
 Hesse, Fred. C.
 Howe Bros. (Slate & Metal), 554 S Spring
 Irish, H. A.
 Keays, A. A., 415 S Los Angeles
 Kilts & Jackson
 Longley, A. H. & Son
 Maitre, C. J. (Slate & Metal), 744 S Main
 Metzger, T. M.
 Meigs, C. W.
 Paraffine Paint Co. (Comp.), 313 N Los Angeles
 Philp, H. B. & Co., 331 E 2d
 Thye, L. G.
LOS GATOS—Bogart, A. W. & Co.
 Lewis, O. & Sons Co.
MADERA—Barcroft, Fred.
 Hoffman, D. R.
MARYSVILLE—Hampton Hardware Co.
 White, Cooley & Cutts
MONTEREY—Hanua, R. F.
MOUNTAIN VIEW—Cronin, John
NAPA—Young Hardware Co.
OAKLAND—Dalzell, Robert, Jr., 418 13th
 Dobson, L. E.
 Elaterite Roofing Co., 17th c Wood
 Ingram Hardware Co.
 Kirk, Owen C. & Co., 305 E 12th
 Maxwell, J. P., 1164 Wash'n
 National Mastic Roofing Co., 17th c Wood
 Pierce Hardware Co.
 Planer, E.
 Schmitt, Geo. W.
 Yager Sheet Metal & Plumbing Co.
OROVILLE—Kelley, T. J.
 Sadowski, C. F.
PASADENA—Buckius, J. J.
 Dunn, W. H., 8 E Colorado
 Mergenthaler & Son
 Munger & Munger
 Nay, E. O. & Co.
PETALUMA—Schoningh Bros.
PLACERVILLE—Alderson, Edw. L.
 Meehan, M. Q.
POMONA—Wilkinson, J. W. & Son
RED BLUFF—Lyon & Garrett
REDDING—Young, James Hdw. Co.

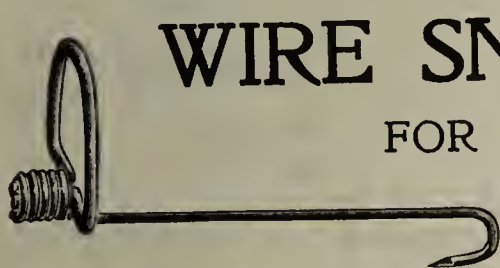
REDLANDS—Dostal, John F.
 Kline & Underwood
REDWOOD CITY—Holmquist, R. C.
RIVERSIDE—A'Fleck, J. B.
 Copley Bros.
 Cunliff, M. T.
 Hansler, J. G.
 McCormick-Ormond Co.
 Schanck, A. H.
 Shiels & Sons
SACRAMENTO—Carlaw, Edward
 Jackson, Samuel J. (Est. of), 427 J
 Lawson, Powell S. (Metal)
 Miller & Cahill, 1116 J
 Miller, Elder & Co.
 Sinclair & Bessey
ST. HELENA—Steves, J. H.
SALINAS—Anderson & Dougherty
 Webster, J. A.
SAN BERNARDINO—Cooley, G. M. Co.
SAN DIEGO—Johnston, J. S. & Sons
 Jullian, C. H.
 Kindler Plbg. Co., 743 6th
 Schultheiss Bros. Co.
 Smith, J. B.
 Woolman, J. H.
SAN FRANCISCO—Amsler, C. S., 1306 Mission
 Cantley, James (Asphaltum), 960 Howard
 Comyns-Childers Co., The (Metal), 412 Valencia
 Conlin & Roberts (Asphalt, Slate & Metal), 928 Howard
 Corey, Thomas
 Cronan's Eagle Cornice Works (Metal & Slate), 30 8th
 De Lano Bros., 70 Spear
 Engler & Richardson (Metal), 1719 Richardson
 Ferin, Peter A.
 Flahaven, Stephen (Metal), 165 2d
 Forreder Cornice Works (Slate & Metal), 8 Natoma
 Freiermuth, Chas.

GILMAN'S SNOW GUARD

103 Merrimac, Boston, Mass. (See adv. on preceding page)

Globe Sheet Metal Works, 115 New Montgomery

Grant & Co. (Asbestos), 404 Mission
 Guilfooy Cornice Works (Slate), 1187 Howard
 Hammond, Philip
 Heidt, Wesley Cornice Works (Slate & Metal), 224 Mission
 Kluegel, A.
 Lawson, Jno. C., 702 Sansome
 Leiser, Louis
 Leverenz, Wm. F.
 McGovern, F. L.
 McGowan, John F.
 Mamlar, Nathan
 Pacific Refining & Roofing Co. (Asphalt comp. etc.), 113 New Montgomery
 Paraffine Paint Co. (Asphalt, Felt, & Power & Pike Co. Comp.), 24 2d
 Richardson & Engle
 Schmidt & Livingston
 Schottler, H. & Co., 605 Clay
 Schwartz, A.
 Smith & Young (Asphalt), 723 Market
 Standard Roofing Co. (Asphaltum, Felt & Gravel), 35 Post
 San Francisco Cornice Co., 20 Florida
 Shields, Thos., 548 Mission
 Taylor & Pritchard, 12 Market
 Varuhagen, Simon
 Wild & Rytting



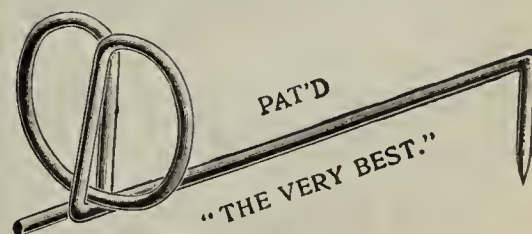
The "H.B." two-piece Guard for old roofs.

WIRE SNOW GUARDS

FOR SLATE ROOFS

MADE OF COPPER AND GALVANIZED WIRE. WRITE FOR PRICES.

ALSO VENTILATORS, SKYLIGHTS, METAL WINDOW FRAMES AND SASH, ETC. ESTIMATES FURNISHED FROM PLANS. SEND US YOUR REQUIREMENTS.



The "CLASON" Guard for new roofs.

The Clason Architectural Metal Works, - Providence, R. I.

SAN JOSE—Klein, F.
Mangrum & Otter Co. (Slate & Metal)
Rose, Chas. E.
Stock, Jno. Sons (Slate & Metal)
White, James J.
SAN LEANDRO—Hoerst, E.
Reichsrath, H. L.
SAN LUIS OBISPO—Hanson & Dodds
Payne, E. M.
Vetterline & Butcher
SAN PEDRO—Dakin, H. M.
SAN RAFAEL—Conway, E. H.
Johnson, R. W.
Kelly Bros.
Kinsella, Richard
SANTA ANA—Haywood, J. S.
Hill, S. & Son
McFadden, Jno.
SANTA BARBARA—Booth, R. L.
Ott Hdw. Co.
SANTA CLARA—Dickinson, F. R.
Menzel, R. Hdw. Co.
SANTA CRUZ—Abraham, E. C.
Byrne Bros. (Comp. Asphalt, etc.)
Senegrini, S. B.
Whitney Bros.
SANTA MARIA—Bryant & Trott Co.
Weber, R.
SANTA MONICA—Bohme, Geo. O.
Middlekauff, C. D.
SANTA ROSA—Demmer, Chas.
Haven Hardware Co.
Letold Co.
Morrow, E. E.
Potter, J. H. & Son
STOCKTON—Gneckow, E. L.
Jackson & Earle (Slate, Iron & Tin), 246
Mills, J. T., 148 Main
Schuler, Geo. F. (Iron & Tin), Hunter at
SUSANVILLE—Asher, M. & Bro.
VALLEJO—Brownlie, Jno.
Eisenhuth & Heiter
Wilder, H. E.
Winchell, C. L.
VENTURA—Baker, F. W.
Leach, B. A.
VISALIA—Cross Hardware Co.
Gilbert & Son
WATSONVILLE—Frieremuth, P. J. (Est. of)

COLORADO.

ALAMOSA—Priestershach Hardware Co.
ASPEN—Tomkins, L. H. Hardware Co.
CANON CITY—Ellis & Hood
Harding Hardware Co.
Watson & Bancroft
COLORADO CITY—Roles & Sutherland
COLORADO SPRINGS—Ball Bros.
Barnes, G. S. & Son
Blake, A. S.
Heyse, Rudolph
Joyce, E. R.
Lowell-Meserve Hardware Co.
St. John & Barnes
Stockwell & Wilkins
Taylor, Chas. E.
CRIPPLE CREEK—Colorado Tin & Sheet Iron
Lorton, J. E. Works
DENVER—Ahlers, Hy. W. (Gravel), 1426 15th
Allisou-Hill Tin, Sheet Iron & Furnace Co.,
Angerman, Harry, 122 B'way 634 18th
Bacon & Son, 1846 Lawrence
Bartels, Fred (Gravel), 1510 Champa
Bryce, H. & Co., 1757 Arapahoe
Colorado Paving Co. (Asphalt), Quincy bldg
Denver House Repairing Co. (Gravel), 539
Santa Fe av
Dill, C. C. (Gravel), 1534 Champa
Dormer, Dewitt C., 135 S B'way
Dorrington, Wm. H. (Metal), 1746 Arapa-
Dowling, J. C. hoe
Duer, J. L., 1525 16th
Epps, Isaac, 524 18th
Fair, C. W. Cornice Works Co. (Metal &
Flaherty, P. J. Slate), 1809 Blake
Fredrum, J. W., 1421 Lawrence
Freund, Geo. & Co., 1016 18th
Globe Cornice & Heating Co. (Slate &
Hallack & Howard Lumber Co. (Elaterite
& P. & B. Products), Larimer & 7th
Headley, Frank
Hinchman-Renton Fireproofing Co. (Gravel),
1815 Arapahoe
Jones & Greathhead, 1335 Welton
Kelley, James M., 1727 Stout
Kessler, Fred., 2706 Larimer
Kobel, Carl F., 1358 Larimer
Lang, H. G., 1901 Welton
Linn, Geo. E., 1815 Champa
McBride, Charles (Gravel) 2046 Stout
Maloney, Jas. M., 807 12th
Miller, Hy. & Co. (Gravel, Slate & Tile),
Neveu, Wm. H., 1219 Lawrence 1837 Stout

O'Brien, D., 3827 Downing av
Penn Metal Ceiling & Roofing Co., 3060
Sabath, G. S. Newton
Sanford's Furnace Co., 1732 Welton
Sayre-Newton Lumber Co. (Paroid), 23d &
Schmitt, Wm. C. Blake
Treat, L., 1743 Glenarm
Wahlgren, Jno. A., 1933 Curtls
Walter, L. H., 1426 Blake
Weigle Riveted Steel Pipe Works, Larl-
mer, N E c 30th
Western Elaterite Roofing Co. (Elaterite),
Young, Jno., 2245 Blake
Zint, G. W., 1754 Welton
DURANGO—Graham, F. R.
FLORENCE—Wilson, Geo. Hardware & Supply
FORT COLLINS—Dierck, H. G. Co.
GLENWOOD SPRINGS—Dougan, Wm.
Everett, E. B. & Son
Metelmann, H. C.
GREELEY—McArthur, D. R. & Co.
McCutcheon Hardware Co.
LA JUNTA—Bomgardner & O'Neil Hardware
Johnson, John Co.
LEADVILLE—Biosfeld, Charles E.
Leadville Hardware Co.
Muller, Jos.
Tompkins, H. H. Hardware Co.
MONTROSE—Lathrop, J. V.
Montrose Hardware Co.
OURAY—Arps Bros. Hardware Co.
Liuquist, L. R. & Co.
PUEBLO—Ashton, Frank
Gallagher, L. C.
Holmes Hardware Co., 302 S Union
Killin, John M. & Co., 206 S Main av
Pueblo Plumber Co., 402 Santa Fe av
RICO—Rico Hardware Co.
SILVER CLIFF—Woodside, Wm.
TRINIDAD—Brown, H. B. Hardware Co.
Steele & Austin

CONNECTICUT.

ANSONIA—Gaffney, Wm.
Terry, T. P. & Son, 80 Main
Webb, John T.
BERLIN—Damon, H. F.
BRANFORD—Corcoran, Wm. T.
Engquest, A. R.
BRIDGEPORT—Beitner, Geo. L., 273 State
Bertelson & Dunn, 1354 State
Bentelspacher, Henry (Metal), 192 Middle
Birmingham, John, 35 Court
Bonner & Co., 226 Noble av
Booth, F. & F. C., 103 Middle
Brady, J. F. & Bro., 108 Congress
Bullard, W. S. (Gravel, etc.), 629 Water
Burns & Co. (Asphalt, etc.), 83 Fairfield av
Clapp, W. A. (Slate Comp. & Gravel), 1025
Main
Curtls & Wellington, 358 Stratford av
DROUVE, G. CO., 40 Tulip. (See
adv. Index, end of book)
Eames, C. S., 639 Water
Farmers' Supply & Roofing Co. (Tar, As-
bestos & Iron), 256 Middle
Gould, H. C. & Co. (Gravel, Slate & Felt),
304 West av
Green, M. A. & Co., 1328 Main
Green, M. A. & Logan, 1328 Main
Haefenfeldt, Emil, 59 Denver av
Hurley, James J., 606 E Main
Kelley, James E. (Gravel), 1024 Main
Kirk, Wm. P. Co.
Lord & Roberts, 30 Sterling
Lynch, Geo. & Co. (Tin), 131 Middle
McLevy, Geo & Sons (Slate), 186 Sherwood
Middlebrook & Goulden, 40 Court av
Mills, L. H. (Iron & Metal), 26 Middle
Murphy, John F. (Metal), 33 Union sq
Nonparel Roofing & Covering Co. (Gravel,
Felt & Slag), 37 E Washington av
Reilly, J., Jr., 283 State
Rock, Robert T., 169 South av
Rockwell, C. C., 1620 Main
Schwing, John Corp., (Iron & Metal), 236
Stratford av
Sillman & Godfrey Co. (Gravel), 1119 Broad
Taylor, H. O., 676 Fairfield av
Wheeler, Cook & Co., 92 State
BRISTOL—Roberts & Arnold
White, J. M.
CANAAN—Strong, G. P.
COLCHESTER—Avery, F. T.
COLLINSVILLE—Bidwell, D. W.
Smith, P. E. (Slate)
DANBURY—Benjamin, F. C. & Co. (Gravel &
Danbury Hardware Co. Tar)
Duane & Culhane, 10 Keeler
Hoyt, H. W. Co.
Hull Bros. Co.
Scotfield, Theo. & Co.
Varian, I. L.
DANIELSON—Keach, E. H. & Co.
Nado, L. A.
DARIEN—Lounsbury, O. W.
DEEP RIVER—Cochrane, A. E.
DERBY—Dickgiesser, Chas. J. & Co.
Kelly, D. H.
Kelly, T. F.
Munson, W. H. (Slate)
Peck, E. W. & Co.
Shelton Tin & Plng Co..
EAST BERLIN—Bowers, E. W.
EAST HARTFORD—Hills, C. M.
ESSEX—Bowen, Wm.
FAIRFIELD—(See Southport)
FARMINGTON—Parker, Arthur J.
Sheath, F. H. (Slate & Tile)
Swanston, Frederick P.
GREENWICH—Allen, David K. (Slate & Metal)
Peck, E. S. (Gravel & Tin)
Talbot, Francis J. (Slate)
GROTON—Hempstead, G. R.
HARTFORD—Ballonoff & Rogal, 203 Front
Banigan Roofing Co.
Behmer, F. Edw., 1116 Main
Beseman & Bostwick, 44 Ann
Bliss, Edward
Bull, N. B. & Son, 345 Asylum
Clark, Merllu F. (Slate, Metal, Gravel &
Tile), 19 Center
Clarke, E. W. & Son (Gravel, etc.), 32
Cullen & Atkinson Co. Village
Ford, J. P. (Slate, Metal & Felt), 373 Asylum
Francis, D. W.
Godbout, Fred J., 74 Allyn
Goldenthal, M., 15 Atteck
Hartford Roofing Co., 33 Chnrch
Henry & Wright Co., 139 Albany av
McManus, John C. & Sons, 346 Main
Murray, W. & J., 450 Main
Sherman, Seth E., 238 Martin
Sneath, Frank H., 902 Main
Stelling, F. W., 95 Franklin
Webster, Edw., 546 Asylum
Wallad, Meyer, 35 Albany
Weigelt, W. P.
Wilbraham, George, 18 Hicks
LAKEVILLE—Hoyt, B. F.
LITCHFIELD—Allen, E. B. Co.
Crutch, George R.
Moraghau, M. V.
LYME—Appleby, Nilson
MANCHESTER—Aitkin, John E.
Apel, B. C.
Emmons, L. S.
Murphy, James A.
MERIDEN—Cummings, Geo. R. (Slate)
Dahill, John F.
Goodrich, F. S., 260 Centre
Griswold, Richmond & Glock Co., 2 W Main
Holmes, John L., 524 Broad
New England Spire & Chimney Co., (Slate &
Putnam, Charles E., 18 W Main Gravel)
Rogers, Hervey
Wheeler, F. J., 17 W Main
MIDDLETOWN—Bacon Bros.
Coughlin, W. J.
Donovan, James
Flynn, J. Taylor
Hale & Kelsey
Hyland, Michael J. (Slate, Tile & Gravel)
Kennedy, R.
Longworth & Lane
Mills, Lyman D.
Schenk, Fred
MILFORD—Ford, S. T. & M. C.
MYSTIC—Hopwood, J. E. & Co.
Newberry, E. H.
NAUGATUCK—McCarthy, W. H., 75 S Main
Page, J. M. & Co., 175 Church
NEW BRITAIN—Brady, Thomas H., 351 Main
Croll, Louis
Damon, S. W., 367 Main
Emley, William, 137 Main
Ericson & Johnson
Erwin, R. H.
Gold & Twigg
Hannon, M. E. & Co. (Gravel, Tar, etc.)
Hinchcliffe, S. L.
Hjerpe, C. A.
Klibbe, M. J.
Pape, Wm. C.
Rapelye, George, 250 Main
Rund, Frank
NEW CANAAN—Simon Bros.
NEW HARTFORD—Smith, Henry T.
NEW HAVEN—Beebe, Wilson E., 414 Howard
Bradley Co., 158 Orange av
Bradley, James H. (Felt & Gravel), 168
Bristol, W. T., 116 Lamberton
Buckingham, Routh Co., 151 Court
Carleton, F. A., 180 George

Chatfield Paper Co. (Gravel & Felt), 300
Cotton, T. R., 754 Orange State
Clark, C. W. & Son (Slate, Tile & Felt), 173
Long wharf

CLASON SNOW GUARD

125 KINSLEY AV., PROVIDENCE, R. I. (See
adv. index, end of book)

Olerkin & Co., 779 Grand av
Corbett, T. W., 29 Broadway
Coyne Bros. Concrete Co. (Tar, Felt &
Gravel), 250 Blatchley av
Cronan, J. C. & Co., 6 Church
Curtiss & Pierpont Co., 272 Elm
Dardell, A., 292 George
Denny, W. H., 35 Crown
Dorman & Cugell, 167 Congress av
Dibble, S. E., 639 Grand av
Grodzinsky, Samuel, 146 Lafayette
Herplch, C., 363 Congress av
Kelley, James E. & Son (Gravel), 66 Com-
Liddell, Robert, 53 Crown merce
McDonald, Wm. H., 778 Grand av
Neuman, C. U., 48 Grant
Perry, Harry M., 218 George
Rourke Bros. Co., 834 Grand av
Ryan, Edw. J., 145 State
Shepard, H. W., 89 Water
Smith, A. J. & Co., 13 Blatchley av
Smith, W. A. T., 2 Pitkin lane
Wadsworth, J. E. & Son, W Haven
Wright, O. S., 780 State

NEW LONDON—Andre, Benj. (Gravel, etc.),
352 William

Downey & Brennan, 36 Bradley
Higgins, Jno. F. (Slate, Gravel & Copper),
41 Sherman

Hilliar, B. H. & Son, 314 Bank
McPhartland, Hugh, 58 Golden
Mallory, Amos
Murray & Maher, 41 Main
Newman & Cronin, 33 Main
Roche & McGuire, 32 Green
Rogers, H. E. Construction Co. (Asphalt),
Post Bros. (Gravel), 370 Bank 29 Grand
Russel, P. W., 206 Bank
Sugrue, T. T., 25 Starr
Wiley & Kennedy

NEW MILFORD—Beach, C. M.

McMahon, A. H.

NORFOLK—Thurston, W. A.

NORWALK—Clark, Frank F.

Gamble, Leslie

Heating & Lighting Co.

Jones & Hotchkiss Co.

McKeou, P. J., Jr.

NORWICH—Barstow, John P. & Co., 23 Water

Capron, C. P., Norwichtown

Murphy, Chas. O. (Tin & Gravel), 257 Cen-
tral av

Nickerson, A. B. (Felt & Gravel), 22 Fair-
mount

Troland, Jno., 23 W Main

Whitaker, Chas. E. (Gravel)

PLANTSVILLE—Barnes, Luther

PORTLAND—Ellsworth, H. W.

PUTNAM—Chandler & Morse

RIDGEFIELD—McGlynn & Whitlock

ROCKVILLE—Kuhnley Plumbing & Heating Co.

Mulligan, John

SALISBURY—Wanger, C. F.

SHELTON—(See Derby)

SOUTHPORT—Wheeler, C. A.

Woodward, M. V.

SOUTHINGTON—Hancock, S. G.

Ballou, William M.

SOUTH MANCHESTER—Carrier, E. T.

Ferris Bros.

Morlarty, Hugh

Trotter, T. M.

Wright, Geo. R.

SOUTH NORWALK—(See Norwalk)

STAFFORD SPRINGS—Adams, Anthony

Hodgson, C. P.

STAMFORD—Anthony, K. M. (Gravel & Slag)

Ashcroft, F. (Slate)

Broderick, T. H., 178 Main

Stark Bros., 7 Park row

Taff, Chas. H. (Granite & Felt)

Wilson, James & Co.

STRATFORD—Beardsley, F. P. & Co.

SUFFIELD—Brown, F. W.

THOMASTON—Blakeslee, Harry L.

THOMPSONVILLE—Leete, A. R.

TORRINGTON—Agard Hardware Co.

Morrison, W. H.

UNIONVILLE—Symonds, W. F.

WALLINGFORD—Phelps, F. W., 21 Main

Phelps, L. M.

WATERBURY—Atkins, Jas. F.

Barlow Bros. Co. (Metal & Gravel), 63 Grand

Byrne, C. R. A.

Disley, W. T. Co., 276 Bank

Fahy, M. J., 3 West Burton

Keeler, H. W. Co. 178 S Main
Smith, J. K. (Tile, Slate & Gravel), 7 1st av
Toucher, Chas. Co., 39 Center
Toucey, Levi H. Co., 171 E Main
Weyand, Hy. Co. (Slate, Metal & Tile), 22
Jeff

WATERTOWN—Hitchcock Hardware Co.
Suffa, Jos.

WEST HAVEN—(See New Haven)

WILLIMANTIC—Bill, J. G., 12 North

Lyman, Hollis H.

Truscott, R. B., 8 Railroad

Vanderman Plumbing & Heating Co.

WINDSOR—Ingleson, W. D.

Wilbraham, G. F.

WINDSOR LOCKS—Mooney, J. E. (Slate &
Pease, Allen Co. Metal)

WINSTED—Alvord, G. H., 450 Main

Barrett & Kennelly

Holbrook, J. H.

Marsh, Fredk. W. & Son

WOODBURY—Hitchcock, F. F.

Terrill, Geo. G.

DELAWARE.

BRIDGEVILLE—Layton, H. C.

DOVER—Clendaniel, Geo. G.

Jones, T. K. & Bro. Co.

GEORGETOWN—Faucet, W. A. & Co.

Holson, Frank J.

HARRINGTON—Callaway, J. A.

LAUREL—Smith, Samuel T.

MIDDLETOWN—Letherbury, W. S.

Roberts, J. T.

MILFORD—Apel, J. H.

Gray, W. M.

NEWARK—Hayes, Jas. H.

NEWCASTLE—Handy, E. W.

SEAFORD—Burton, W. S.

Williams, P. J.

SMYRNA—Brinton, J. H.

Faries, Wm.

Sisco, C. W.

WILMINGTON—Alexander, Wm. H. (Slate,
Gravel, Plastic, Slag & Metal), 511 E 4th

Anderson, Thos. S., 1619 W 3d

Biddle, Samuel (Metal, Gravel, Plastic &
Slag), 102 W 8th

Bullock, Isaac S. (Gravel, Plastic, Slag &
Metal), 708 Shipley

Cooke, Hollis R., 715 Shipley

Davis, E. R., 1704 Lincoln

Delaware Roofing Co. (Gravel & Plastic), 313

Dewey, Jas. M., 9 W 30th S Claymont

Faulkner, Jas. E. (Slag)

Faulkner, W. J. (Gravel, Plastic, Slag &
Metal)

Gallaher & Rumer (Metal, Gravel & Plastic),
519 Orange

Haughey, Peter J., (Gravel & Plastic), 10th
& Tatnall

Heoch, Wm. W., 901 Linden

Johnson, J. C. & Son, 6th & King

Johnson, Wm. J., 909 Walnut

Le Carpenter, Jno. F., 1607 Penna. av

Moreland, Jos. F. (Gravel & Plastic), 519

O'Connor, Chas. A., 311 Madison Orange

O'Neill, Jos. T. Co. (Gravel & Plastic), 411
E 4th

Palmer, Wm. M. (Metal, Gravel & Plastic),
Reese & Bro., 412 King 101 E 15th

Robinson, Harry G. (Metal & Slag), 221
Shipley

Schweizer, John T., 525 W Front

Sharpe, Henry D., 914 Shipley

Smith, Elmer G. (Metal, Gravel & Plastic),
117 E 7th

Speer, Geo. I. (Slate, Slag, Gravel & Plas-
tic), 523 E 4th

Starr, Thos. T. (Metal, Gravel & Plastic),
838 King

Stewart, Geo. B. (Metal, Slag, Gravel &
Plastic), 119 Tatnall

Stradley, Geo. L., Jr., 607 W Front

Williams, Wm. E. (Metal, Gravel & Plastic),
105 W 10th

Williams & Hopkins, 527 W Front

Wood, J. F. & Co., Front & Orange

DISTRICT OF COLUMBIA.

WASHINGTON—Ahmay, Geo. L., 712 H, N E

Berry, W. O., 503 9th, N W

Binnix, Thomas, 1224 H, N W

Binnix, T. W., 940 G, S W

Boland, Thos. M., 2222 Brightwood av, N W

Brown, Geo. B., 1007 H, N E

Bruehl, Geo. C., Jr.

Burns, Theo. A., 137 B, S E

Callaghan, M. O., 906 21st, N W

Callan, Jno. F., 108 10th, N E

Casey, Timothy J., 614 L, N W

Castle, W. D.

Coberth, Chas. E., 812 14th, N W

Collier & Brosnahan, 1159 8th, N W

Collins, John W. & Son, 505 O, N W

Cook, John H., 523 7th, N E

Cox, Geo. E., 2104 14th, N W

Dodson & Hodgson, 1228 H, N W

Doyle, John T., 1555 9th, N W

Englehart, Frank C., 346 M, S W

Fanulug, Chas. J. (Slate & Tile), 220
Massachusetts av, N W

Flynn, Maurice B., 621 Pa. av, S E

Fries, Beale & Co., 522 10th, N W

Fry Thos. R., 904 8th, S E

Glehner, Fred. S., 1214 D, N W

GILMAN SNOW GUARD

103 Merrimac, Boston, Mass. (See adv.
index, end of book)

Grafton & Son, 714 9th, N W

Grimes, Philip H., 1057 Warehouse al, N W

Harrington, John J., 3206 M, N W

Heard, Chas. E., 1007 M, N W

Henshaw, John T. & Co., 736 13th, N W

Huddleston, M. C. & Co. (Slate & Tile),
1218 30th, N W

Hurdle, Edw., 609 Louisiana av, N W

Johnson, Chas. W., Jr., 1618 3d, N W

Kane, Stephen H., 2206 Pa. av, N W

Kennedy, John, 1229 1/2 7th, N W

Kneas, Gustave, 1405 Q, N W

Knight, Alex. C., 900 B, N E

Lanahan, Cornelius B., 222 H, N W

Levin, Wm., 707 H, N E

Lipp, Carvallis M., 1524 14th, N W

Lyles, Geo. W., 1308 14th, N W

McCuen, William H. & Co., 1016 Connecti-
cut av, N W

Madden, Jesse J., 720 S, N W

Mathy Co., 1918 Pennsylvania av, N W

Minnis & Maryn, 28 H, N E

Minnis, Wm., 517 H, N E

Mills, Walter H., 302 E Capitol

Mitchell, M. C. Co., 3100 M, N W

Moran, John, 2126 Pa. av, N W

Niland, Patrick J., 2129 H, N W

Pierpont, Jno. A., 310 12th, N W

Ray, Wm. J., 802 M, N W

Robertson, Wm. E., 1360 H, N E

Rose Bros., 1809 14th, N W

St. John, Alex. J., 1249 Wisconsin av, N W

Shughue, John, 1103 7th, N W

Shughue, Michael, 431 11th, N W

Simmons, Wm. H. G., 618 K, N W

Simms, Jno. H., 1841 7th, N W

Smith, Richard C., 801 M, N W

Stansbury, Daniel R., 1306 H, N W

Stockstill, D. W. & Co., 211 12th, N W

Symanoskie, Jos., 701 D, N E

Talbert, Robert E.

Uher, Louis C., 215 C, N E

Ward, A. W. & Son, 1408 Pennsylvania av,
Warren Bros. Co., 27th c H, N W N W

Winters, Jas. H., 742 8th, N W

Wright, R. F., Jr., 1500 10th, N W

Yeatman, Geo. W., 508 Maryland av, S W

Yeatman, Robert P., 1013 4 1/2, S W

FLORIDA.

COCOA—Hindle, Wm.

DAYTONA—Nash, Clarence

DE LAND—Eccles, T. E.

McDonald, R. D.

Watts & Miller

GAINESVILLE—Baird Hardware Co.

JACKSONVILLE—Bouis, S. G. & Co.

Florida Cornice & Roofing Co.

Hubbard, S. B. Co.

McMillan Bros.

Macy & Johnson

Miller, Jno.

Stafford & Ward Co.

KEY WEST—Costar, M. R., 121 Simonton

Page, A. J., Elizabeth c Caroline

OCALA—Marion Hardware Co.

Young, R. E.

PALATKA—Griffin, Martin & Co.

Points, J. D. & Co.

PENSACOLA—Avery, A. M.

Soto, R. F.

Vetter, C. B.

ST. AUGUSTINE—Hamblen, C. F. (Slate,
Pacetti, Jos. T. & Co. Gravel, etc.)

SANFORD—Fernald, Geo. H. Hardware Co.

Hill, A. E.

TALLAHASSEE—Horton, J. H.

Rozear, S. P.

Yeager, L. C.

TAMPA—Berry, Wm.

GEORGIA.

ACWORTH—Klitchen & Williams
ALBANY—Bell, William S. & Son
Eatman, R. C.
Frank, C. A.
ATHENS—Bailey, D. W.
Brondurant & Co.
ATLANTA—Dowman-Dozier Mfg. Co. (Slate & Metal), 22 Trinity av
Franklin Plumbing & Tinning Co., 121 Whitehall
Fulton Roofing Co., 52 W Alabama
Gouge, C. A., 83 N Pryor
Harmisen-Belcher Plumbing Co., 36 S Broad
Henry Bros., 308 Decatur
Hunnicut, J. E. & Co. (Slate & Metal), 56 Peachtree
Jones, W. R. (Slate, Metal & Tile), 15 Kelley, Alonzo
Kelley, Alonzo
Locke, Ed., 93 Courtland
McNinch, J. T., 137 Marletta
Murphy, C. P. & Son (Granite, etc.), 6 N Russell, C. W., 41 S Broad Forsyth
Shide, A. J., 105 S Forsyth
Southern Roofing Co. (Felt, Gravel, Steel, etc.), 106 S Forsyth
Strickland, J. W., 9 Peters
Warlick & Kennedy Mfg. Co., 59 E Alabama
AUGUSTA—De More, E. A., 112 7th
Deveney, Hood & Co.
Hargraves, W. H.
Jessup, E. S., 939 Broad
Slusky, David (Slate & Metal), 1009 Broad
BARNESVILLE—Hawkins, R. E. Lee
BRUNSWICK—Baker, M. A.
CARTERSVILLE—Lumpkin Bros.
CARROLLTON—Campbell, W. L.
CEDARTOWN—Mee, I. T.
COLUMBUS—Everett, H. F.
Gartman, W. D.
McArdle & Yarbrough
Russell, J. C.
Sheridan, G. W.
CORDELE—Hutchinson Lumber & Supply Co.
DALTON—Evans & Co.
GAINESVILLE—Davidson & Pruitt Hardware
MACON—Falkner Tin Shop Co.
Howard, W. C., 25 Wall
Ricks, L. C., Wall st
MARIETTA—Dobbs Hardware Co.
MILLEDGEVILLE—Hatcher, R. W.
Stanley, Joseph
ROME—Neal, James
SAVANNAH—Brody, T., 111 Jeff
Cornwell & Chlpman, 108 W Congress
Cox, C. A., 142 Barnard
Crescent Mfg. Co., 535 Bay, E
Hahne, F., 212 Drayton
Hobbs Bros. & Co.
Karsman, M., 133 Whitaker
Lattimore Co., 19 Broughton W
Pacetti's, E. C. Sons, 136 Whitaker
Platzblatt, H.
Sanders, C. M., 127 Jefferson
Sanders, J. K., 143 Jefferson
Secklner & Kane, 151 Whitaker
THOMASVILLE—Watt, James & Bro.
VALDOSTA—Briggs, W. H. Hdw. Co.
WAYCROSS—Harley, P. N. Hardware Co.
La Conte, C. A.
Murray, M. J.

IDAHO.

BOISE—Acme Plumbing & Heating Co.
Carlson-Lusk Hardware Co.
Idaho Hdw. & Plumbing Co.
Loree, J. K. & Son
Milleman, Herman
IDAHO FALLS—Griffith Hardware & Plumbing Co.
LEWISTON—Habu, Chas.
MOSCOW—Collins-Orland Hardware Co.

ILLINOIS.

ADAMS—Bennett, Frank
ALBION—Weaver, Geo. & Son
ALEDO—Detwiler Bros.
Wells Bros.
ALTON—Alton Roofing, Artificial Stone & Supply Co.
Barrett, Jas. J.
Degenhardt, A. J. (Slate & Metal)
Eckhard, C.
Hoffman, H. A.
Merkle Bros.
Pitts & Hammill
AURORA—Crampton, J. T.
Hart, Chas. H.
Karthelker & Millen
Mall, W.
Roesch, Geo. E.
Rutishauser, W. F.
Ryan, Henry
Tanner, Henry R.

BARRINGTON—Bauman, Edward G.
Schroeder, Louis F.
BATAVIA—Burton, Geo.
Grimes, Wm. L. (Metal)
BAYLIS—Nichols, L. D.
BEARDSTOWN—Dunn, Robert H.
Keil, H. C., Main
BELLEVILLE—Geel, John A.
Junck, Charles & Co.
Keil, Adolph
Lebkuecher, L.
Louis, Frank J.
Millitzer, Henry
Reis, Geo. Hdw. Co.
Voelkel Bros.
BENSENVILLE—Koelker, Fred.
BLOOMINGTON—Butler, Harry
Evans, Jno. W. Sons Co. (Felt, etc.)
Haase, Emil C.
Holder, Athey Hdw. Co.
Larson, G. J.
McEvoy, J. W.
Morrison, Frank
Muhl, F. C. (Slate & Metal)
Parker, Wm. C.
Popple, M. L. (Slate & Metal)
Read, G. H. & Bro.
Schueler, Fred'k
BLUE ISLAND—Clausen, Henry G.
Schreiber Bros., Western av & James
Vandenberg & Pronger
BOWEN—Walty, Albert
BUSHNELL—Griffith, J. L. & Co.
Hoover & Bernhill
CAMP POINT—Stecher, O. F.
CAIRO—Engler & Benno
Morris, J. W. (Slate & Metal)
CANTON—Luker Bros.
CAPE GIRARDEAU—Leher, H. A.
CARLYLE—Daufolski, Marion
Fehlner, F.
CARROLLTON—Black, S. A.
Mahoney, John
Stone, A. H.
Weals, Chas. E.
CARTHAGE—Boswell, W. E.
Reyer Fred.
Sholl Bros.
Taylor & Edwards
CENTRALIA—Buehler, Fred.
Zarback, E. F.
CERROGORDO—Funk, S. M. & Son
Peterson & Hendricks
CHAMPAIGN—Durr, Alvin C.
Mollett, Chas.
Terwilliger, A. M. & L. A.
Trevett, Thos. H.
Ver Haar, John
CHANDLERVILLE—Dorr, Henry
CHARLESTON—Pinatel, Chas. C.
Schriver, George
CHESTER—Fey Stove & Hardware Co.
Weinrich, C. F.
CHICAGO—American Clay Products Co., 138 Washington
American Tile & Gravel Roofing Co. (Gravel, Tile, etc.), 133 La Salle
American Tin Mounting Co., 271 Madison
Anderson & Armstrong, 906 Racine av
Anglo-American Roofing Co., 729 W Chicago
Atlas Roofing Co., 651 W Madison
Bales, O. M., 3962 Cottage Grove av
Balsam, Emil, 3409 State
Barker, Chas. H., 792 W Vanburen
Barkmeier, H., 13709 Leyden av
Barrett Mfg. Co., 164 Dearborn
Barriball, Chas. H. (Felt, Comp. & Gravel), 11444 Indiana av
Barsley, A. L., 2729 Michigan av
Beahan, Thos. & Son, 274 W Randolph
Behr, Raymond, 24 Rush
Benns, G. W., 213 E Randolph
Benz & Rosbach, 342 5th av
Bergstrom, A. B., 1407 W 59th
Berry, John, 25 N Green
Berry, R., 6439 Centre av
Biegler, Louis, 67 Dearborn av
Biewer, Wm., 85 Clybourn av
Black, John (Slate & Metal), 159 92d
Block, David, 328 W 12th
Blomeley, Sam'l, 282 N Western av
Bohnett, Wm. R. (Felt, Comp. & Gravel), 4324 Cottage Grove av
Brady, J., 254 W Adams
Bremer & Bielenberg, 1136 W 13th
Brouty, E. S., 818 N Western av
Brouty, Henry E., 967 N California av
Brown, J. H., 310 W Lake
Brown & Nelson, 2559 Evanston av
Brotzky, Joseph, 285 W 14th
Burger, F. & Co., 1085 W Madison
Buckley & Hagan, 651 W Madison
Burke, Augustus (Comp.), 100 W Superior
Burke, John, 3130 S Halsted
Burke, John & Co., 909 W Madison

Bussiere, L. E., 1068 W 13th
Carbon-Oxide Roofing Co., 310 Blue Island
Chicago Tiu Co., 2023 Clark av

CLASON SNOW GUARD

428 Kinsley av, Providence, R. I. (See adv. Index, end of book)

Cline, L. Mf. Co., 1239 Wabash av
Colby, Edwin L., 4324 E Ravenswood pk
Colver & Wille, 11838 Wallace
Colvin, J. N., 4824 S Halsted
Conklin, James W., 785 N Western av
Connelly, M. C., 478 W Randolph
Cooper, Isaac, 507 W 12th
Cornell, Geo. H., 960 W Vanburen
Cortright Metal Roofing Co., 134 E Van Buren
Crescent Roofing Co. (Comp. & Gravel), 99 E 29th

Cretors, C. & Co., W 22d & S Jefferson
Cutler, William, 548 S Jefferson
Dahnel, Ernest R., Chicago & Erie avs
Daly, Mrs. Anna, 164 Ogden
Daly, Wm. & Co., 236 Washington boul
Dermody, Michael, 379 W Ohio
Diener, Geo. W. Mfg. Co., 77 W Lake
Dodge, Chas. H., 810 W 63d
Doering, C. & Son, 229 W Lake
Doran, John, 217 S Sagamon
Downing, John, 3107 State
Driever, W. L., 1335 Osgood
Dunbar & Co., 687 Fulton
Eagle Cornice Works, 673 Sheffield av
Easterly, W. M. & Co., 180 Western av
Eastern Granite Roofing Co., Monadnock blk
Elaborated Ready Roofing Co., 4421 La Salle

Eblers, Ernest J., 3019 Cottage Grove av
Elliott, J. M., 411 Blue Island av
Felten, Wm., 750 Elston av
Epple, Charles A., 2729 Cottage Grove av
Eustace Roofing Co. (Comp.), 546 W 12th
Eureka Roofing Co., 56 33 Halsted
Evans & Elchner, 85 Lake
Fitch Roofing Co., 3738 Cottage Grove av
Foley & Overholt, 218 Illinois
Ford Mfg. Co., 109 W Wash'n
Ford, Pierce, 38 N Clark
Freutel & Focrster, 376 Center
Friedley & Voshardt, 194 Mather
Gaylord, George H. (Slate, Gravel & Metal), 167 Dearborn

GILMAN SNOW GUARD

103 Merrimac, Boston, Mass. (See adv. Index, end of book)

Genasco Roofing Co., 108 La Salle
Glavin, Wm., 206 55th
Globe Roofing Tile Co., 218 La Salle
Glowacki, John B., 4662 Gross av
Goetz & Flodin Mfg. Co., 133 W Chicago
Goldberg, Jos., 51 N Clark av
Goldenberg, Nathan & Co., 180 Sebor
Grashin, Max, Plymouth ct. N E c Van
Green & Schmidt, 973 W 12th huren
Griffith Cornice Works, 1716 Wabash av
Grochowsky, Geo. S., 154 W Division
Gross, Geo. M., 1445 State
Haines, Chas. W., 2187 Lincoln av
Hamer, Fred., 75 North av
Hansman, Martin, 2618 Wentworth av
Hartmann, Henry & Co., 426 Division
Hartman, Hermann, 158 Fry
Harvey, Rich. J., 428 Johnson
Heckler, Herman, 351 63d
Henrichs & Renaud, 148 31st
Henschel, E. H., 4212 Washtenaw av
Henry, H. Tinware Co., 10 Frey
Heppes Co., 45th av & Fillmore
Herr, Wm., 610 W 15th
Hirsch, K. (Slate & Metal), 559 N Wood
Hoffmann, Wm., 775 N Halsted
Holmberg, Chas. & Co., 50 Michigan
Holpuch Roofing Co. (Felt, Comp. & Gravel), 21st & Ashland av

Hopkins, H. H., 50 Dearborn
Hopp, Frank, 1153 W 63d
Horne, E., 111 Franklin
Horne, Wm., 227 Ogden av
Hrdlicka, John, 613 S Center av
Hughes, Peter & Co. (Comp.), 1237 W Lake
Illinois Roofing & Cornice Co. (Slate, Tile & Metal), 124 N Curtiss
Illinois Roofing & Supply Co., 23 Lake
Jaeger, Peter, 1799 Milwaukee av
James, David & Son, 238 Lake
Johnson & Adamson, 5008 Wentworth av
Johnson Bros., 237 Austin av
Kahler, Anthony, 675 Blue Island av
Kaltenbach, Fredk., 11 N Jefferson

Kaminsky, M., 9 O'Brien
 Kelly, Henry C., 94 Franklin
 Kennealy, Edmund (Comp.), 3008 Loomis
 Kessin, Chas., 489 W Chicago av
 Kluckerbocker Roofing Co., 3962 Cottage
 .Grove av

Knisely Bros. (Slate, Metal & Tile), 28th &
 5th av

**KNISELY, H. C. CO. (Slate, Tin,
 Iron & Tile), 273 S Canal. (See adv.
 index, end of book)**

Koehler, Anthony, 675 Blue Island av
 Koenig, John, 494 Larrabee
 Kolbe, Otto, 937 N Western av
 Kominsky, Max, 9 O'Brien
 Korshak, Max M., 385 W 14th
 Kratt, Aug. C., 235 Lake
 Krantwurm, Wm., 200 Canalport av
 Krefling, Edw., 119 W Vanburen
 Kubal, John, 599 W 17th
 Kuhn, Alex., 229 Larrabee
 Kyle, Geo. A., 80 Hudson av
 Lachele, Henry L., 2980 N Ashland av
 Lakeside Roofing Co., 2419 S Park av
 Laubenheimer, Geo. E. Co., 1347 Carroll av
 Lavin L. & Co. (Felt, Comp. & Gravel), 386
 LeClair, Adrian, 112 N Clark W 14th
 Lewis, F. J. Mfg. Co., 1172 S Roby av
 Liddle, Robert, 2645 State
 Lincoln Roofing Co. (Felt, Comp. & Gravel),
 Livingston, John, 256 35th 374 Center
 Lloyd Iron Roofing & Paint Co., 99 W Monroe
 Lothamer & Haines, 83 Walnut
 Lothamer & Norowitz, 96 N Clinton
 Ludowici Roofing Tile Co., 138 Washington
 Lyman, Albert, 965 W Lake
 Lyman, Wilfred C., 49 Michigan
 Lyon Metallic Mfg. Co., 18 S Ann
 McCarthy, Jos., 423 N Clark

**McFARLAND, J. C. & CO. (Slate,
 Metal & Tile), 27th & 5th av (See adv.
 index, end of book)**

Mellroy-Jennings Cornice Works, 1519 State
 Melver, E., 3251 Cottage Grove av
 McKeon, Christopher J. (Comp.), 791 Grand
 McKeown, John, 14 Rush av
 McMahon, M. J. & Co., 781 W 21st
 McMoran, Edw. E. & Co., 15 N Clinton
 Mader, Charles, 669 W Lake
 Madison Hardware & Construction Co., 1996
 Maehler, Paul, 203 W Lake W Madison
 Maguire, James S., 681 Warren av
 Marcus Roofing Co., 278 Blue Island av
 Mathiesen, Anton, 220 Grand av
 Merchants' Roofing & Supply Co., 45 E Divi-
 Maypole Bros., 60 S Canal sion
 Meador, J. & Co. (Comp. Felt, Gravel &
 Metal), 186 Washington

Meister, Otto, 1026 Armitage av
 Mellish, F. & Co., 45 Lake
 Michele, J. A. & Co., 642 Grand av
 Miller, Isaac E., 792 W Chicago av
 Miller, James A. & Bro. (Slate, Metal, Tile,
 etc.), 136 S Clinton

Mitchell, Wm., 157 S Desplaines
 Monarch Roofing Co., 1436 Ogden av
 Moore-Maguire Roofing Co., Chamber of Com-
 Moran, C. A., 456 W Taylor merce bldg
 Morris Roofing Co., 565 N Robey
 Moshelk, Philip, 421 S Halsted
 Motzer, John J., 31 N Clark
 Murdoch, William Co. (Felt, Comp. &
 Gravel), 145 La Salle

Nadel, Samuel, 50 Blue Island av
 National Roofing Co., 3223 La Salle
 National Sheet Metal Works (Slate, Tile &
 Metal), 673 Larrabee

Neely, Edw., 244 N Wells
 Nell, Wm. & Co., 11 Dearborn
 Nelson & Bergstrom, 246 Janssen av
 Newman, Alex., 2929 Wentworth av
 Noebbling, Wm., 399 E North av
 Norcott & Foley, 218 E Illinois
 North Chicago Roofing Co. (Felt, Comp. &
 Gravel), 128 E North av
 Northwestern Sheet Metal Works, 1521 Mil-
 waukee av

Norton, Daniel H., 16 Churchill
 Nott, W. S. Co., 177 E Randolph
 Nyman, Aug., 3144 State
 O'Brien & Co., 4705 State
 O'Brien, John, 215 S Clinton
 O'Brien, P. F. Roofing Co., 56 Chicago av
 Offersen, Louis, 827 W North av
 O'Donnell & Wilder, 952 W 12th
 Parker & Martin, 671 N Larrabee
 Parrott, Wm., 4532 Cottage Grove av
 Patent Vulcanite Roofing Co., 625 S Camp-
 bell av

Peerless Roofing Co., 456 W Taylor
 Perkins Roofing Co., 235 Lake
 Peterkin, John, 98 LaSalle av
 Powell, M. W. Co. (Flax Felt, Wool Felt &
 Flat Tile), 204 Dearborn
 Powell & Jones (Comp.), Monadnock blk

Prairie, Frank, 3424 State
 Price, Jacob (Felt, Comp. & Gravel), 381
 Larrabee

Purdy & Cauble (Felt, Comp., Gravel &
 Metal), 800 W 63d

Randolph, Charles W., 825 Clifton av
 Raymaker Roofing Co., 463 W Lake
 Ready Roofing Co., 1509 Milwaukee
 Redmond, Timothy J., 1583 Harvard
 Reid, John L. & Co., 3924 Indiana av
 Reif, Max A., 360 N Winchester av
 Renaud, F. D. & Co. (Comp., Felt, Gravel &
 Metal), 184 La Salle

Renaud, J. P. & Co., 3708 5th av
 Rice, C. H. & Bro., 5654 Lake av
 Richards, David M. Roofing Co. (Comp.),
 Richardson, G. W., 515 E 55th 240 31st
 Riebel, Fred'k, 6217 Wentworth av
 Riedl, Anton, 1337 W Lake
 Roessler, Albert H., 494 W North av
 Root, Geo. L., 238 Lake
 Rosenbaum, Hyman (Felt, Comp. & Grav-
 el), 159 La Salle

Rosenow Bros., 927 Otto
 Rotter, Wm. B., 338 Division
 Russell Roofing Co., 4524 Forestville
 Ryan, Saml. R., 1115 N Halsted
 Schaefer, John, 3256 Union av
 Schanze, Fredk. H., 600 W 12th
 Schlundt, Fredk. M., 58 Blue Island av
 Schmidt, Herman, 344 Clark
 Schmitz, Peter, 265 Mohawk
 Scholl, Theo. F., 414 26th
 Schmid, Jacob, 441 S Lincoln
 Schuler, J. F., 94 E Fullerton av
 Schumacher, N. G., 824 Barry av
 Scully Steel & Iron Co. (Metal), Fulton,
 Halsted & Wyman

Seela, Max & Co. (Shingle, Tar & Gravel),
 Seicke, Bruno, 219 N Wells 775 W 21st
 Seidler, Lewis, 591 Noble

Shaffer, H. R. Co. (Gravel), 145 La Salle
 Shinn Seth L., 700 W Lake
 Shipley, Jos. T., 1341 S 40th ct
 Simmons & Schneider, 5507 S Centre av
 Simpson, Robt., 257 W 57th
 Slavik & Co., 425 Blue Island av
 Smith, Chas. H., 130 16th
 Smith, J. & Co. (Slate & Metal), 1344 W 22d
 Spencer, Geo. L. & Co., 140 Franklin boul
 Standard Paint Co. (Ready), 188 Madison
 Standard Roofing Co. (Comp.), 294 N Hal-
 Steffey, C. A., 977 N Halsted sted
 Stieber, Jos., 400 N Ashland av
 Stier, Herman Mfg. Co., 552 N Halsted
 Stoops, G. B. & Bro. (Comp., Slate & Metal),
 449 Grand av

Stowell Mfg. Co., 47 Market
 Sykes Steel Roofing Co. (Slate, Tile &
 Metal), 114 W 19th pl

Taylor, Walter G., 1102 75th
 Trenkhorst, Frank, 67 Larrabee
 Tresham, Walter J., 57 Washburne av
 Trinidad Asphalt Mfg. Co., 311 W Randolph
 Troxel, John, 645 W Kinzie
 Tubbs, Watson E., 5614 State
 U. S. Roofing Tile Agency, 218 La Salle
 Turner, R., 234 W Washington boul
 Universal Cornice Works (Slate, Metal &
 Tile), 970 S Troy
 Voigtman, Fk. Cornice Co., 129 N Franklin
 Warren, Jas. P., 261 Austin av
 Watson, H. F. Co., 12 S Clinton
 Watson, W. D. Co., 302 W Vanhuren
 Weil, Herman (Comp.), 591 N Wells
 Weisskopf, Wm., Jr., 1645 W 12th
 West, B. F. & Co. (Comp., Felt & Gravel),
 217 W Madison

West Coast Co., 153 La Salle
 Western Roofing & Supply Co., 177 E Ran-
 Western Slate Co., 119 Aberdeen doph
 Wheeler, B. W. (Comp.), 1074 58th
 Wheeler, J. J., 290 N Halsted
 Wheeler & Thomas Roofing Co. (Comp.), 16
 White Bros., 1347 Fulton N Well
 Williams, W. H. & Bro., 37 E 47th
 Wilson, F. Cortez & Co., 239 Lake
 Wilson & Friend, 200 Kinzie
 Woodley, Jas. C. & Co., 454 Clark
 Worthington, Wm. R., 259 Rush
 Wright, Wm., 1425 Fillmore
 Wyatt, W. E. (Felt, Comp. & Gravel), 55th
 & State

Yeske, Robt. H., 468 S Western av
 Yeldham & Keuser, 269 W Van Buren
 Zeh, Henry C., 830 S Troy
 Zeller, John H., 3102 N Irving av
 Zenner, John P., 28 N Desplaines
 Zoller, Otto, 153 W Chicago av

**CLAYTON—Coe, E. B.
 CLINTON—Killough, John
 Metz, Herman
 Watson & Watson
 COLLINSVILLE—Kluge Bros.
 Ruemler, Charles**

**COLUMBIA—Wilde, Phillip
 CRETE—Diersen Hardware Co.
 CULLOM—Cook, P. J.
 DANVILLE—Bireline & Orr (Slate & Metal)**

Brant, Edw'd H.
 Dietz & Senger
 Dobbins & Lahr
 Goth, Wm.
 Ingram & Mills
 King Bros. (Slate & Metal)
 Koons, William U.

**DECATUR—Adkesson, C. B.
 Bane, G. T.
 Decatur Cornice & Roofing Co.
 Dennis, B. M.
 Fahy, M.
 Morehouse & Wells Co.
 Roberts, C. J.**

**DE KALB—Dunau, John
 Rodman & Anderson
 Sheets & Knodle Co.
 DIXON—Herrick, W. A.
 Hofman, John
 Howell, E. N. Hdw. Co.
 Slothower, R. J. & Sons**

**DU LOIN—Kimmel & Yehling
 Lipe, J. R.
 EAST MOLINE—Aldrich & Aldrich
 EAST ST. LOUIS—Boyles, Frank P. & Co.
 Golden, John A. (Gravel)
 Haines, O. J. & Son
 Schaub Hardware & Iron Co., 312 B'way
 Scruggs, V.
 Stirratt & Hogan**

**EDINBURG—Ballett, Jacob (Slate, Metal &
 EDWARDSVILLE—Bernreuther Bros. Tile)
 Kellar, E. A. Co.
 Kriege, W. C. & Co.
 National Mastic Roofing Co. (Comp.)
 Tuxhorn Bros. Hdw. Co.**

**ELGIN—Barclay, D. F.
 Curtis, Arthur F.
 Davis & Little
 Juby, A. C.
 Kimball-Dietrich Hdw. Co.
 King, W. J.
 Klitzgen, Aug.
 Meehan, William J.
 Nish Bros. & Co.
 Ziegler Bros.**

**ELMHURST—Fiebrandt, Henry
 Most, Wm.
 EL PASO—Baker & Drury
 Hass, Peter
 Waite, A. H.**

**EVANSTON—Connor, J. C. Co., Davis
 Connor, Thos. E.
 Daley, Wm. & Co.
 Drummond, A. & Co.
 Hedblom, Fred. W.
 Peterson, N. G.
 Schuetz & Moore**

**FAIRBURY—Schick, J. K.
 FAIRFIELD—Tulis, J. W.
 FREEPORT—Freeport Hdw. Co.
 Freeport Plumbing & Heating Co. (Slate,
 Metal & Comp.)
 Wless & Co.**

**GALENA—Asmus, C. A., 194 Main
 Kempter, Frank
 Galesburg—Bliss, H. C.
 Block & Hillman
 Galesburg Cornice Works (Slate, Metal &
 Henderson & Slack Tile)
 Murphy Bros. & Anderson (Slate, Metal &
 Rearick, F. H. & Son Tile)
 Withorg & Hvarven**

**WILLIS Mfg. Co. (Slate & Metal)
 GENESEO—Becker, Theo.
 Bolte, Hy
 Hannon, Kldney & Ryan
 GENOA—Perkins & Rosenfeld
 Sager, Thomas G.**

**GILLESPIE—Schmidt, F. E. & Co.
 GOLDEN—Franzen & Miller
 GRANITE CITY—Bischoff, John N.
 Bristow Hardware & Supply Co.
 GREENVILLE—Sewald, F.
 GRIDLEY—McNaught, C. E.
 Niergrath & Donnelly**

**HAMILTON—Kopp, Charles F.
 Wetzel, L. F.
 HAMPSHIRE—McGrath & Wldmayer
 HARRISBURG—Seton, R. & Son
 HARVEY—Cassell, Isaac & Son**

**Hilbish, D. H.
 HAVANA—Geary, G. W
 HIGHLAND PARK—Kulst, C. A.
 Pndr. D. C. & Sons
 Sullivan, C. P.**

**HILLSBORO—Brown, Geo. W. (Slate, Comp. &
 McDavid, J. L. & Co. Metal)
 Vawter, John**

HINSDALE—Bohlander, Jno. & Sons

HOOPESTON—Brickey, M. V.
Werner, E. B. (Slate & Metal)

JACKSONVILLE—Brennan, J. F. (Slate & Metal)
Brady Bros. Hdw Co.
Gay, Geo. S.
Johnson & Hackett
Smith, H. L. & B. W.
York, H. H.

JERSEYVILLE—Cory, J. E.
Daniels, H. S.

JOILET—Cundiff, Jas. H.
Meers, Robert
Poehner & Dillman
Schuessler, Albert M.
Themes, F. W.

KANKAKEE—Bregenzer, C. C.
Crevier, F. X.
Reuter, Henry (Slate, Iron & Comp.)
Sauer, Jacob
Troup, H. H. & Co (Felt)

KEITHSBURG—Smith, S. W.

KEWANEE—Butterwick & Bro.
Kennish & Cable
King, Ralph

KIRKWOOD—Wise, E. F.

KNOXVILLE—Tate, Frank M.

LACON—Thompson, S. D.

LA GRANGE—Blaser, Jno.
Harvey, W. A.
Schwenck, Frank
Stuessy, Samuel

LA HARRIE—Coulson, Brundage & Co.
Kellogg, Frank P.

LAKE FOREST—O'Neill, Jos. W.
O'Neill, Wm. J.

LA SALLE—Boyle, T. & Bro.
Camenish Bros.
Gruenwald, Julius G.
Hellstedt, A. E.
Heircke, Robert T.
Nelly, I. K.
Rimmele, R. J.

LEBANON—Sager, C. H. Hardware Co. (Slate & Metal)
Stoffel Bros.

LE MONT—Friedley, F. T.

LEWISTOWN—Ewan & Purdy
Grier, Cullen

LEXINGTON—Strayer, Sarah F.

LIBERTY—Austin, Cornelius

LIBERTYVILLE—Eger, H. B.

LINCOLN—Behner, J. P. (Slate & Tin)
Oltz, Fred.
Reinhardt's M. Sons
Yeager, Edw. W.

LITCHFIELD—Clearwater, N.
Hiller, Henry
Rhodes, Thos. & Son

LOCKPORT—Adams & Scheidt
O'Connell, Wm.

LONDON MILLS—White & Wolford

LYONS—Bittig, Chas.
Waller, Fred.

MACOMB—Campbell Bros.
Rice & Frowein
Sperry, W. S.

MANITO—Marshall, J. A. & Co.

MARSEILLES—Krusse, Geo. J.

MARTINSVILLE—Fleuner, M. J.
McNary, Byron
McNary, H. V.

MASCOUATAH—Guth, A. H.
Keller, B. R.
Stoffel, J. W.

MASON CITY—Chambers, O. E.

MATTOON—Mattoon Slate & Cornice Co. (Slate & Metal)
Webber, O. B.

MAYWOOD—Ruden, John

MECHANICSBURG—Freeto, J. H. (Est. of)

MELVIN—Stathers, W.

MENDON—Chittenden, Mrs. A. B.
Thompson, Wm.

MENDOTA—Edwards Hardware Co.
Schultz Bros.
Wittgan, Frank

METROPOLIS—Craig, J. H. & Co.

MILLSTADT—Nolte, Geo.

MOLINE—Bergen, Dane
Berglund, C. A. (Metal)
Carlson, C. Albert
Hager, Jacob
Hemmingson, Jno.
Parks, Hugh H.
Reid & Witter
Sammel, W. B.
Stow, B. F.
Willis & Sons Co. (Slate & Metal)

MOMENCE—Aistle, Charles B.

MONMOUTH—McCullough Hdw. & Impl't Co.
Schuessler Hardware Co.
Van Valkenburg & Son

MONTICELLO—Harris, Henry P.

MORRIS—Cronin Bros.
Donahue & McKillop

MORRISON—Rohlnson, Wm. G.
Sauer, H.
Woods, Oscar

MORRISONVILLE—Wyckoff, C. A.

MORTON—Reuling, Fred.

MOUND CITY—Hough, W. W.

MOUNT CARROLL—Iverstreet, A. H.
Jessen, Otto
Squires, Thos.

MOUNT STERLING—Bredenband, J.
Briggs, Hersman & Parker
O'Neil, Martin A.

MOUNT VERNON—Hinman & Mathews
Stratton, R. L.
Warmen, E. F.

MURPHYSBORO—Haywood, C. & J.
Stoetzle, John

OAK PARK—Galr, Hugh
Kaltenbach, H. W.
Purnell, Enoch
Steger, Peter

OLNEY—Jolly, Weiland & Richardson

ONARGA—Aerman, M. T.
Egley Bros.

OREGON—Gilbert, F. M. & Son
Sheets, B. F. Co.

OTTAWA—Jordan, R. C.
Pearson, S. S.
Walter, Jno., 312 W Main

PANA—Brown & Custer (Metal & Comp.)
Haywood, H. L.
Paul, G. A. (Slate & Metal)

PARIS—Bovell, J. B. (Slate & Metal)
Haunah, A. A., Jr.

PAXTON—Corbett Bros.
Cruzen, R. Co.
Kemp Bros. & Hopkins
Paxton Hdw. Mfg. Co.

PEKIN—Jaackel & Son
Pekln Hdw. Co.
Schuttler, Martin
Spittgerher, Chas. & Son

PEORIA—Aylward, R. C. (Slate & Metal), 916 N Adams
Bushell, A. A. & Son (Slate & Metal & Gravel), 1317 S Wash'n
Dickson Co., The, 206 S Jefferson av
Fautz, Theodore (Tin & Slate), 704 Main
Gardelka, Ernest, 510 Steuhenville
Hunter & Strehlow (Slate & Metal), 114 S Adams
Johnson, Charles Hardware Co. (Slate & Metal), 2023 S Adams
Kavanaugh, P. H., 227 S Madison av
Kellerstrass & Hierspiel (Tile, Tin, Iron & Slate), 1926 S Adams
Louis, N. J. & Co. (Slate, Metal & Comp.), 211 Maple
Martens, Wm.
Meyer, F. & Bro. & Co. (Slate & Metal), 1313 S Adams
Noirot, Leo. F. & Co.
Orr, Samuel M., 407 S Washington
Russell, H. V., 1110 N Adams
Santo, A. & Co., 705 Lincoln av
Traeger, Fred'k W. (Slate, Metal & Steel), 719 Main
Valentine & Strehlow, 802 Main
Weber, Frederick J., 1007 Warner av
Wilson, Robt. L. & Co., 3017 S Adams

PERU—Soedler, Geo.
Widman & Loockle

PETERSBURG—Clary, W. P.
Kahn, Marcns
Seese, C. A.
Seese, John H.

PINCKNEYVILLE—Stookey, V. A. & Son

PITTSFIELD—Clayton Hardware Co.
Feyler, Wm. & Bro.
Lloyd Hardware Co.
Stahle, Henry

PONTIAC—Lauth, Joseph
Redmond, W. H.

PRINCETON—Cowley, T. C.
Downer, H. J.
Gibbs, H. D. & Sons
Glynn, John & Co.
Priestley Hdw. Co.

QUINCY—Albright Bros. (Gravel)
Berghofer & Ohnemus (Slate & Metal), 510 Jersey
Comstock-Castle Stove Co.
Ebberts, Henry B.
Meyer, Philip R.
Schaller, Geo. C., 1110 B'way
Scheipering, A. W. & Bro.
Schullian, J. C. & Bro. (Slate & Metal)
Schwendeman, George
Stroot, August C.
Thoele, Wm. H., 700 S 8th
Wilson, W. C. (Slate & Metal)
Wurst, C. H. Co., 649 State
Winking, George
Ziener, Alois

ROCK FALLS—Derbyshire, S. S. & Son
Taylor, E. U.

ROCKFORD—Allen, John C. (Tar & Gravel)
Drake Hdw. Co. (Slate & Metal)
Feldt, Gust
Harder, Alex. P.
Hulse, M. A. (Slate, etc.)
McGuire Bros. (Tin, Tile & Slate)
Mosecrop, R. J.
Norman, E. A. & Co.
Ralston, J. B. & Son
Rockford Cornice Works (Slate & Tile)
Skandia Hdw. Co.

ROCK ISLAND—Allen, Myers & Co., 1821 2d av
Baker & Bollman
Bennett, Frank P.
Bertelsen, Jno. (Slate & Metal), 523 22d
Burgess, J. J.
Lewis Roofing Co. (Asphalt, Gravel & Felt),
Notsker, J. T., 303 20th 2325 1/2 3d av
Rock Island Cornice Works (Slate & Metal)
Wilcher, Phil. S.

RUSHVILLE—Griffith Hardware Co.
Hartman, Geo.
Sylvester & Parrott

SHELBYVILLE—Lantz Bros.

SPRINGFIELD—Armstrong, J. D.
Atteberry, H. E.
Cooper, J. W.
De Souza, Chas.
Edmands, C. H.
Foster, Wm. H.
George Bros.
Kreigh, E. M.
Lauterbach, Peter
Mathies, R.
Melcher, Oscar A.
Moorhead, Wm. C.
Neuman, J. C. (Asbestos & Metal)
Winters, Edgar

STERLING—Davis, Chas. A.
Janssen, H. T.
Phillips, J. E. & Co.
Taylor, F. R. & Co. (Slate & Metal)

STREATOR—Alband, John
Manley, E. P.
Howe, L. D.
Reiferschneid, W. & Co.

SYCAMORE—Haight Bros. Hdw. Co.
Ohlmacher & Root
Whittemore & Brower

TAYLORVILLE—McGahan, Wm. H. (Slate & Metal)

TOULON—Ward, C. D.

TRENTON—Koentz, L. M.

TUSCOLA—Coddington & Bauman
Cox, C. E.

UPPER ALTON—Colman, D. F.
Hoffman, J. E.

URBANA—Grant, F. M.
Green, J. D.
Hubbard & Sons

VIRGINIA—Lang, F. C.
Meade, Thos.

WAUKEGAN—Dodge, W. H.
Hull & Bangs
Lanyon, J. & Son
Melody, Wm. A.
West Coast Co.

WELLINGTON—Galloway & Son

WENONA—Barrett, Frank
Moulton, N. T. & Son

WHITE HALL—Brantzel, M. G.

WILMETTE—Bauer, M. K.
Hubbell & Jenkins

WYANET—Olds & Hamilton

INDIANA.

AKRON—Miller, Jno.

ALBANY—McCormick & Sons (Slate, Gravel & Metal)

ALBION—Baughman, D. L. (Asbestos)
Berger, J. D. (Metal & Felt)

ANDERSON—Bahcock, Robert G.
East, D. C. & Son
Eikel, E. A.
Epperson, Geo. B.
Jackson, O. A. & Co.
Nichol, Makepeace & Co., 71 N Meridian

ANGOLA—Woolford, Walter M.

ATTICA—Green, L. M.
Powell, Thos. M.

AUBURN—Bennet, Louis J.
Conrad, A. H.
De Kalb Hdw. Co.

AURORA—Excelsior Iron Roofing Co. (Slate & Metal)
Langley, A.
Snaeth, H. P. & Co.

BATESVILLE—Krieger, Wm. & Son
Schrader, H. F. E.

BEDFORD—Ramsey Hardware Co.

BERNE—Wittwer & Liddy

BLOOMINGTON—Davis Hardware Co. (Gravel, Slate & Metal)
Mooney, Wm.

BOONVILLE—Kinderman, Wm.
Shafer Bros.

BRAZIL—Hawkins, O. C.
BREMEN—Breunlin, W. G.
 Stelnick, J. H.
BROOKVILLE—Fleber & Holmes
BROWNSTOWN—Bolles, W. R.
CAMBRIDGE CITY—Hollowell, Jos.
CARLISLE—Risinger & Ellis
COLUMBUS—Brooks Bros. (Slate & Metal)
 Brownling, Thos. A.
 Loesch & Williams
 Schwartzkopf, J. G. & Son (Slate & Metal)
 Volland, F.
CONNERSVILLE—Cain, Harry
COVINGTON—Coffing, T. M.
 Mayer, M., Jr.
 Tinsley, Chas. H.
CRAWFORDSVILLE—Bappert, A. & Son
 Davis, Frank
 Schenk, Henry T.
DECATUR—Brock, John
DELPHI—Barnett & Mohr
 Hatfield & Thomas
ELKHART—Borneman & Sons
 Garvin & Co.
 Jones, A. A.
 Klaer, Frank L.
 Stoner & Bassett
ELWOOD—Laidlaw, Frank
EVANSVILLE—Anchor Roofing & Paving Co.
 Gravel, 915 River Front
 Anchor Supply Co. (Asphalt & Gravel), 128
 U Water
 Attinger, Wm. F. (Metal), 309 L 1st
 Blemker, L. A.
 Bohn, Chas. (Metal), 1319 Main
 Bush, E. M. Hardware Co. (Felt & Gravel),
 505 Main
 Evansville Pump Mfg. Co. (Metal)
 Groeninger, J. J. & Co. (Metal), 400 L 2d
 Jurgensmeyer, Edw. (Slate), 610 E Columbia
 Koch, Geo. Sons (Gravel & Metal), 1014 W
 Penna
 Koch, H. & Sons (Metal), 221 E Penna
 Kreipke & Co. (Metal), 510 W Franklin
 Lohse, H. Co. (Metal), 7 2d av
 Mesker, Geo. L. Co. (Iron & Steel)
 Meyer, Jos. A. (Metal), 1407 Main
 Moran, Mich'l & Son (Metal), 316 U Water
 Ohio Valley Roofing Co. (Slate), 318 U 2d
 Puder, Fred (Metal), 730 Vinc
 Schminke, H. & Co. (Slate & Metal), 1 2d av
 Schmitt, Aug. & Sons (Metal), 607 Main
 Schwink, Jos. J., 1105 W Franklin
 Sonntag, G. W. (Felt & Gravel), 228 2d av
 Tardy, Frank (Felt & Gravel), 112 U Water
 Thiele, I. A. (Metal), 108 U 3d
FAIRMOUNT—Bryan, A. D.
 Dale, J. W. (Slate & Metal)
 Miller, E. M.
FORT BRANCH—Lawton, F. P.
 Stone, W. I.
FORT WAYNE—Ash, H. L.
 Bohen, I. H.
 Fort Wayne Roofing & Paving Co. (Asphalt
 & Cement)
 Frelhurger Hdw Co., 360 Calhoun
 Gerding & Aumann Bros. (Slate, Metal, As-
 phalt, etc.), 115 Wallace
 Graffe, C. F. & Co.
 Griffiths, A., 110 B'way
 Gunkel, Otto F.
 Pranger, Wm.
 Schlatter, C. C. & Co., 38 E Columbia
 Seavey Hardware Co., 19 W Main
 Staub, A. H., 22 E Columbia
 Welch, J. H. & Sons (Tile, Metal & As-
 phalt), 190 Calhoun
GAS CITY—Garthwaite Hdw Co.
GOSHEN—Hawks Hardware Co.
GOSPORT—Burkett, A. H.
GREENCASTLE—Meltzer, Chas H.
 Owl Mercantile Co.
GREENFIELD—Banks, A. J. & Son (Slate,
 Grifey & Johnson Tln & Steel)
GREENSBURG—Corbett & Rohe (Slate, Metal)
 Mendenhall & Spillman (Slate & Metal)
HAMMOND—Carley, S. G.
 Lundt & Carley
 Minas, E. C. Co.
 Mueller, P. H.
HUNTINGBURG—Bamberger, Phil.
 Dufendach Hardware Co.
 Shurig, Chas.
HUNTINGTON—Culver, Ellis
 Lew, Jacob C.
 McCartney, Geo.
 Miller, Christian
 Nave & Provines
 Reichenbach & Wickenhiser
 Sheek, J. W.
 Stevens, E. M. (Slate)
INDIANAPOLIS—Abel & Doyle (Slate &
 Metal), 229 Indiana av
 Bakemeler, Andrew H., 828 W Pratt

Black, Wm. H., 1444 W Washlughton
 Bouvy, Julius H., 919 Virginia av
 Braughton, McCullough, 604 E Walnut
 Brown, Jos. H., 1118 Prospect
 Carroll, Jas. P., 642 E St. Clair
 Cooney & Geiger, 19 E South
 Cox, Rich'd, 916 E 6th
 Crompton, Ebenezer, 908 Ft. Wayne av
 Enders, Aug. C. F., 1006 E Washington
 Enners, Chas. H. & Co. (General), 408
 Mass av
 Ensey, Orvis B. (Slate, Gravel & Metal),
 c 15th & Illinois
 Eschenbach, Morltz, 1718 Madison av
 Escol, Hyman, 616 S West
 Fitzwater Bros., Warman av & Michigan
 Fraend, Ezero, 1021 Virginia av
 Gardner, Jos. (Slate & Metal), 41 Kentucky
 Gauss, Chas. A., 709 Russell av
 Grubb & Co., 559 W Washington
 Guarantee Roofing Co. (General), Union
 Trust bldg
 Hadley, Thos. E., 146 Kentucky av
 Harman & Hall (General), 137 W Wash.
 Hawkins Rollyn Co., 322 E Market
 Humphreys & Sargent (General), 124 E
 Indiana Tinware Co., 108 S Penn. Court
 Indianapolis Steel Roofing & Corr. Co.
 (Steel, etc.), 23 E South
 Kalb, John, 1419 N Illinois
 Lauck, Jno., 1004 S Meridian
 Lavery, Thos. R., 642 E Washington
 Laut, H. W. & Co. (General), 630 Fletcher av
 Lieberman & Beck, 616 S West
 McCain, Jos. C., 806 Division
 Maier, Charles, 2104 W Michigan
 Mast, G. J. Heating Co., 643 Mass. av
 Off, Christian & Co. (Metal), 5 N New Jersey
 Powell, Geo., 335 Virginia av
 Prunk, Frank H. (General), 522 Indiana av
 Pursell, P. M. Mfg. Co. (Slate & Tin), 802
 Reeder, Ralph R., 312 E 16th Beecher
 Rollyn, Hawkins Co., 326 E Market
 Seiner, Chas. F., 122 E 32d
 Sheppard & Berg, 2712 Clifton
 Smith, Arthur, 18 N Senate av
 Smith Bros. Mfg. Co., 261 S Meridian
 Smith, Florian O., 531 E Wash.
 Smither, H. C. Roofing Co. (Tar, Pitch,
 Comp., Felt & Gravel), 330 S Penn
 Smither, T. F. (Comp., Asphalt, Gravel &
 Pitch), 301 W Maryland
 Steeb, John, 421 Iowa
 Symmes, H. H. Co. (General), 45 Kentucky
 Troy Bros., 142 S Delaware av
 Turner, Alvin H., 122 E 24th
 Veregge, Albert J., 872 W Michigan
 West End Supply Co., 10 N West
 Wright, Wm. L., 614 E Washington
 Zimmerman, C. & Sons (Comp., Slate &
 Metal), 19 S East
JEFFERSONVILLE—Bennett & Davis
 Lindley, Thos. J.
 Overholser, H. G.
 Timmonds, R. H.
JONESBORO—Jackson Bros & Gillespie
KENDALLVILLE—Koder & Geddes
 Loomis, Edgar S.
 Zern & Bliss
KNIGHTSTOWN—Kennard, F. M.
 Verry, George W.
KOKOMO—Armstrong-Landon Co. (Slate &
 Metal)
 Werbe, W. H.
LAFAYETTE—Boyle & Wilkinson
 Cassell, Henry & Son, 511 Wood, W. L.
 Co-operative Tin Shop
 Hicks, John B. & Son
 Howe & Shipley (Slate & Metal), 336 Main
 Lehnen & Reitemeler
 Mertz-Neumann Co. (Slate & Metal), 223
 Columbia
 Mulnzer, H. A.
 Reitemeler, F. & Son, 203 Columbia
 Schimelpfenig, Chas. (Slate & Metal), 822
 Main
 Strate, William F.
 Sale, A. C.
LAPORTE—Decker Bros.
 Lower's, Jas. Sons
 Webber, Hdw. Co.
 Wunsch, E.
LAWRENCEBURG—Barrott, E. & Son
 Kidd, H. G.
 Stuber, F. & Son
LEBANON—Tice, John C.
LIBERTY—Fosdick, B. S. & Son
 Miller & Shafer
 Peters, H. C. & Bro.
 Shafer, J. E.
LOGANSPORT—Barnhart, Jno. & Son
 Dilley, C. L. & Co. (Tar & Gravel), 513
 Market
 Eberlein, C. Augustus (Metal & Slate), 506
 12th
 Shute & Van Steenburg
 Wood, Thos.

LOWELL—Burnham Bros.
 Death, George M.
 Sanders, E. L.
MADISON—Adams, John (Slate & Metal)
 Davison, Nellie A. (Mrs.)
 Eckert, John Sons
 Hoffman, Peter
MARION—Beshore, Chas. (Metal & Slate)
 Brown, Wm. Co.
 Clifford & Teegarden
 Currau, F. V. (Gravel & Tar)
 Hollinger, M. G. & Co. (Slate & Metal)
 Jones & McCoy
 Oder Hardware Co.
 Swauger & McClaue (Slate, Iron, etc.)
MICHIGAN CITY—Bartholomew & Co. (Slate
 Klopsch, Otto & Son
 Staiger Hdw. Co.
MISHAWAKA—Albert & Hunsburger
 Distler, Jno. C.
 Harris Bros.
 Laug, O. B. & Co.
 Swanger, J. Q., Jr.
MOUNT VERNON—Gronemir's, S. H. Son
MUNCIE—Cook & Miller
 Doyle, Thos. F.
 Noland Roofing Co. (Pitch, Gravel, Asphalt,
 Warfel, Wm. H. etc.)
 Wells, A. T.
 Young & Kessler
NEW ALBANY—Creed, W. B.
 Huncilman, R. A.
 La Heist, A. A.
 Miller Bros.
 Plumer & Co.
 Scales, Wm.
 Stoy, P. R. & Son
 Walter, John J.
NEW CASTLE—Michael, C. A. & Son
 Shriner, Jas. C.
 Webster, D.
NOBLESVILLE—Clark Supply House (Felt &
 Steel)
 Essington, J. G. (Tln, Tar & Gravel)
 Longley, W. E.
 Michaels, Milton & Son
 Thompson, Jacob (Iron & Tln)
NORTH MANCHESTER—Frame, D. & Son
 Lockwood, J. B.
 Stewart & Noftzger
PERU—Cloud, Levi
 Soames, Chas.
 Stevens, Ira. B.
PLYMOUTH—Armstrong, H. A.
 Elch, Chas. J.
RICHMOND—Johnson, Thos. H., 1018 Main
 (Slate, Metal & Gravel)
 Johnson, W. N. (Slate & Metal)
 Shafer, W. J.
 Schultz & Laning, 186 Ft. Wayne av
 Woodhurst, C. R.
RUSHVILLE—Beale, John S.
 Clark, M. B.
SEYMOUR—Biuder & Co. (Slate, Metal &
 Gravel)
 Cordes Hardware Co. (Slate, Tln & Iron)
 Frederick, Geo. M. (Slate, Tin & Iron)
 Kessler Hardware Co. (Slate & Metal)
 Union Hardware Co.
SHELBYVILLE—Brown & Boehning
 Howard, Alonzo (Slate)
 Pearson J. C. & S. (Slate)
SHERIDAN—McCarthy, Wm. R.
 Scott, Geo. W.
SOUTH BEND—Beyrer, John (Comp.)
 Folsom, Chas. G. (Gravel & Comp.)
 Huber, Andrew & Son
 Lauber & Welss (Slate & Metal)
 Melkus, Carl
 Meyer, G. E. & Son (Slate & Tin)
 Sibley, I. A. (Slate & Tln)
 Warlich, Arthur
 Zeltner Bros.
SUMMITVILLE—Davis, A. J. & Son
TERRE HAUTE—Austin Hardware Co.
 Batten, Jas., 1441 S 7th (Gravel & Comp.)
 Bokenhofer, Thos., 1347 Wabash av
 Dady, Patrick F.
 Dudley, A. W. & Co.
 Fenner, S. L. Hardware Co., 1200 Wabash
 Fromme, A., 1701 S 7th av
 Hess, Chas.
 Kanzleiter, Fred. G. E., 523 Lafayette
 McAdams, John (Slate & Tin), 1409 S 2d
 Manion, John (Slate & Tin), 905 Main
 Moore, Jas. T. (Slate & Tin), 725 Wabash
 O'Connell & O'Dowd
 Smith, C. C. Sons Co. (Slate & Tin), 30
 Wabash
 Terre Haute Stove & Furnace Co.
 Townley Stove Co. (Slate & Metal), 429 Wa-
 bash av
 Wuest, R. (Slate & Metal), 22 N 4th
TROY—Lindauer, Anton

UNION CITY—Kerr, Wm. & Sons
Shank, E. & W. A.
VALPARAISO—Patrick, J. H. & Son
Wilson, Geo. A.
VEVAY—Goldenburg, W. F. (Metal), 412 8th
VINCENNES—Duhols, F. W.
Lauby, C. W.
Smith's, N. Sons
Watson, H.
WARASH—Carpenter Bros.
Dlckover, M. A.
King, McNamee & Hipskind
Lalldlaw, Walter (Slate)
Lawrence, Russell
Wabash Cornlce Works
WASHINGTON—Carnahan, M. J. Co.
Hatfield & Palmer Co.
McCarty & Smith
WINCHESTER—Hoffman, D. E. (Slate)
Rochester & Clinton
Smith, Geo. W.

INDIAN TERRITORY.

ARDMORE—Berryhill, Frank
Weeks Bros.
CHICKASHA—Hollingsworth, C. P. & Co.
DAVIS—Page, J. C.
DURANT—Coon & Pearce Bros.
EUFAULA—Edson, W. M. & Co.
MARIETTA—Kisselburg, E. T.
MUSKOGEE—Bellis, A. B.
PAULS VALLEY—Braden, R. E.
Ventress, T. S.
SOUTH McALESTER—McAlester, J. B. Hard-
ware Co.
Tank & Roofing Co.

IOWA.

ACKLEY—Carstens, J. F. & Sons
ALBIA—Barger, C. S.
Duncan & Duncan
ALGONA—Robinson, J. W.
ANAMOSA—Scott, W. B.
Trester, D. C.
AUDUBON—Hoover, G. W.
BOONE—Deering, Chris.
Johnson Hdw. Co.
Noland, L. C.
Wheelock, W. M.
BURLINGTON—Brand, Wm.
Ekdale, A. A.
Forney, J. H.
Haffner, Chas.
Hillen, C. F.
Kaut & Kreischbaum
Kriechbaum & Dewein
McMillan, E.
Scott, J. M. & Co.
Wagner, J. F.
Woellhaf, Otto J.
Woepking, Theo.
CEDAR RAPIDS—Connor, A. H. (Comp.), Ma-
sonic Temple
Ring Bros.
Star Roofing Co.
Swah, C. H. & Co.
Wagner, Clinton D.
CENTERVILLE—Goss, Joseph & Son
Peatman, C. A.
Van Lent Plumbing Co.
CHARITON—Ensley, G. W.
Larlmer, H. H.
CHARLES CITY—Angell & Co.
Holbrook, E. W.
Peckham, J. E.
Snyder Bros.
CHEROKEE—Millard, W. H.
CLARENCE—Jons, Henry A.
CLARINDA—Dunlap & Co.
Spring, Jno.
CLINTON—Armstrong, C. E. & Co. (Slate,
Calnan, W. H. Iron & Tin), 238 5th av
Dean, M. J. & Co.
Hansen, H. C.
Nootbar, Henry
Stukas, C. E. & Son
Uulon Roofing & Mfg. Co.
Wulf, Peter C.
CORNING—Okey, A. F.
COUNCIL BLUFFS—Amy, W. S.
Brown, O. H. (Gravel)
Dayton & Headgaard
DeVol, P. C. Hardware Co.
Jones, H. R.
Grahb-Petersen Co.
Petersen & Schoenling Co.
Rasmussen, Chris. A.
Spencer, F. A. Furnace & Sheet Metal W'ks
Swaine & Maurer
CRESCO—Lomas, T. J. & Son
Strayer, E. C.
CRESTON—Edgerton, E. E.
Patt, Jas. H.

DAVENPORT—Beck, Louis
Brauch, John C.
Brown, Samuel M.
Davis & Wright
Detlefsen & Moeller
Hipwell, Chas. G. (Slate, Iron, etc.), 430
Kuehlicke, Herman
Lerch, A. J. Co., 120 W 3d
Reimers, Peter A.
Schehler Bros.
Weidner, Wm., Jr.
Wriedt, E. F. & Son
DECORAH—Bldne & Istad
Hoyt, E. W.
Rlste & Hangenson
DENNISON—Romans, J. B. Co.
DES MOINES—Backman, J. A., 524 E Grand
Barrick & Son (Asphalt, Slate & Metal).
Des Moines Roofing Co. 911 Walnut
Drake Roofing Co. (Gravel & Slate), 210 5th
Ensminger, S. F., 616 E Grand av
Fischer Bros.
Flsher Bros. (Metal & Slate), 714 Locust
Kurtz, L. H. (Metal), 600 E Grand av
Nelson, A. V. Co., 600 E Grand av
Nichols Roofing Co. (Gravel, Composition &
Asphalt), 200 W 4th
St. John & Barquist Co. (Slate, Gravel,
Tin, etc.), 418 8th
Sheldon, Geo. W., 811 Locust
Steel Roofing & Stamping Works (Metal).
DUBUQUE—Gruber, W. 506 Jeff'n
Jonas, D. J.
Key City Roofing Co. (Gravel & Asphalt)
Klauer Mfg. Co. (Slate, Tile & Metal), 1351
Lalley, James
Lyons & Lyons (Slate & Metal), 172 Main
Oswald, Chas. J.
Ris, J. F. & Bro. (Metal), 648 Main
Schlenker, Paul
ELDORA—Stauffer, Chas. F.
ELKADER—Brown & Bahr (Gravel)
ESTHERVILLE—Jewell, J. B.
FAIRFIELD—Gaines Bros.
FONDA—Fitch & Burson
FORT DODGE—Vincent, Harry S.
FORT MADISON—Barbour, E. C.
Cooney, H. C.
Guenther, Peter (Est. of)
Smith, Geo. H. & Elkin
Yotter & Yachel
GRINNELL—Marvin Bros.
Miles, G. L.
HARTLEY—Messer, E. B. & Son
Smith, S. A.
IDA GROVE—Johnson, Peter
Sauer, Martin
INDEPENDENCE—Allen, E. S. S. & Bro.
Plane, I. C.
INDIANOLA—Farley, Geo. T. & Co.
IOWA CITY—Cochran, M. H.
Maresh Bros. (Slate & Metal)
Miller & Miller
JEFFERSON—Bosink, Chas.
Brandon, Geo. F.
Lawton, P. J.
KEOKUK—Buss, C. F.
Buss Roofing Co.
Buss, J. F.
Gelger, Aug.
Seither & Cherry Co.
Vollers, Frank
KNOXVILLE—Ashton, Henry
Little, C. F. & Son
LAKE MILLS—Styve & Sons
LE MARS—Edmunds, D. R.
Haas, C. E.
LIVERMORE—Leighton, J. W. (Metal, Rubber
& Gravel)
Reilly, P. & Son
LYONS—Heupel, Wm.
Magnussen, C.
MALCOLM—Vogel, W. F.
Parker, G. W. & Co. (Slate & Tin)
MANCHESTER—Carhart & Nye
Whitnev, H. F.
MAOUOKETA—Pool, P. M.
Ringlen Hardware Co.
Trout & Matthais
MARENGO—Dean, J. M.
MARSHALLTOWN—Abbott & Son (Steel &
Tin)
Coulton, David (Est. of)
Hanson, E. A.
Heinz, Edw. (Slate, Steel & Tin)
Mack, E. & Perry, L.
Painter, W. R.
MASON CITY—Curre Hardware Co.
Day, D. S.
Mica Insulating Co. (Gravel)
Miles Hardware Co.
MISSOURI VALLEY—Ford, C. W.
McGavren, J. R.
MONTEZUMA—Lalng, C. W.
MORNING SUN—Selzer, E. M. & Son

MOUNT UNION—King, H. G.
MUSOATINE—Fisch, Geo. B.
Fisch, Jacob & Sons
Herr, Nicholas
McQuesten & Sawyer Co.
Thompson Bros.
NEW HAMPTON—Garmen & Forkenbrock
Ure, E. J. (Est. of) (Slate & Metal)
NEWTON—Baldwin, F. W.
Fallor, H. J.
Griebelling, C.
Scharf, Chas.
Seehenger, Chas.
NORTHWOOD—Ofthus, J. K.
OELWEIN—Perry, Edson
OSAGE—Kingsbury, J. B. & Co.
Miniger, H. A.
OSKALOOSA—Iowa Mfg. Co.
Rltchle, W. E. (Gravel)
Stewart, S. J.
OTTUMWA—Harper & McIntyre Co.
Kohl, Wm.
McCarroll Bros. (Slate & Metal)
McIntyre, W. A. & Co., Main st
Miller, C., Main st
Randall & Son
PELLA—Van Zante Bros.
PERRY—Gilbert, T. J.
Miller Bros.
RED OAK—Maloney & Son
ROCKWELL CITY—Dixon Bros.
SAC CITY—Bauer, W. P. & Co.
Martln, Geo. A.
SHELDON—Chase, H. F.
Messer, E. P. & Son
SIOUX CITY—Eldt, Julius
Falkenhainer, Geo. B.
Hamlett & Son
Kling, Thos. A.
Orcutt Co., 1012 4th
Snell, J. H. & Co.
SPENCER—Bisbee, J. L.
Leach & Thompson
STATE CENTER—McMahon, J. L.
Schilling Bros. (Slate, Comp. & Gravel)
STORM LAKE—Nattress, Eggy & Son
TOLEDO—Conant, A. H.
VILLISCA—Banes, J. S.
Jones, F. F.
VINTON—Allen & Gilchrst
Robinson, S.
WAPELLO—Bettler, Chas. L.
Levy, Theo.
WASHINGTON—Stewart, Geo. Hardware Co.
WATERLOO—Berkley, C. M.
Cutler Hardware Co.
Julien, Wm.
Kramer & Bachtell
Schlel & Corson
Waterloo Lumber Co.
WAVERLY—Curtis, S. H. & Co.
WEBSTER CITY—Mason, F. R. & Son
WEST UNION—Hoyt & Lawyer (Metal)
WINTERSET—Benge, J. E.
WOODBINE—Young & Sweet

KANSAS.

ABILENE—Diehl & Horner
Hodge Bros.
Smith, M. J. & Co.
ANTHONY—Costa, Jas. J.
Dickson, M. L.
ATCHISON—Atchison Cornlce Works (Slate &
Klostemeir Bros. (Slate & Metal) Metal)
Walcott, H. C. (Slate & Metal)
Wehnmann, C. F.
CHETOPIA—Lyon Bros. (Asbestos, Tin & Rub-
berold)
COFFEYVILLE—Ashby, J. N. & Son
Starkweather & Vivers
COLUMBUS—Scovell, H. A.
CONCORDIA—Belisle, E. A.
Robinson & McCrary
Sweet Hdw. Co.
COUNCIL GROVE—Gibson & Davidson
Snlder, J. F.
EL DORADO—McDaniel, John
Pattison Bros.
Turner, C. L.
EMPORIA—Haynes Bros.
Hoffer & Lepper
Knapp, O. H. P.
Peters Hardware Co.
EUREKA—Stuelpner, Max
Young, S. P.
FORT SCOTT—Brunny, John
Congdon, D. C. (Slate & Metal)
Crane, C. C. Hardware Co.
Penniman, A. O. & Son (Gravel & Tar)
Warbasse, E.
GALENA—Montgomery, J. L.
Schmidt Bros. & Day

GARFIELD—Waymire, N. O.
 GIRARD—Hertner, H. E. (Slate & Tin)
 Hitch, W. S.
 Spence, D. J.
 GLASCO—Davidson, L. F. & Co. (General)
 GODDARD—Linnebur, H. C.
 GREENLEAF—Thinness Bros.
 HIAWATHIA—Amann, G. & Son
 Daeshner, F.
 Small, W.
 HUTCHINSON—Carr, E. L.
 Nelson Bros.
 INDEPENDENCE—Casper, Martin
 Mibek, G. F.
 Schuidt, Peter
 Wentworth, F. B.
 IOLA—Root, W. H.
 Shannon, T. B.
 JUNCTION CITY—Barker, E. E.
 Muenzenmayer, J. J. & W. F.
 KANSAS CITY—Bartlett, F. W., 538 Minne-
 sota av
 Bentz, Jos., Jr.
 Cashman & Beard, 903 N 5th
 Eagle Metal Works
 Fulrs, A. W. Hardware Co., 849 Minn. av
 Garnier, A., Jr.
 Gille & Plank, 630 Kans av
 Hance, P. R., 748 Minn. av
 Harmon & Beeler
 Haskell Bros., 522 Minn av
 Hatton Bros., 11 N 10th
 Joyce, P. J.
 Kansas City Kans. Gravel Roofing Co., 548
 Kastner & Smith, 707 N 6th Minn. av
 Kurtz & Neher
 Laughlin, J. C., 33 S James
 Major Bros., 712 Kas. av
 Muir, J. L.
 Powers, J. H., 635 Kansas av
 Pulver, Frank, 611 Packard
 Reyburn, Joseph
 Sailee, Wm., 2216 N 4th
 Strobel, Theo., 816 Osage
 Timmer, Joe, 11 Central av
 Turner, O. L., 1011 N 5th
 Voss, John W., 1810 N 5th
 Walsh, J. J., 1820 N 5th
 Walton, Emanuel, 706 Central
 Wright, Wm. J., Jr., 743 Minnesota av
 LARNED—Doerr, A. A.
 Grennell, Wm.
 Shady Bros.
 LAWRENCE—Bennett, F. H.
 Broeker, H.
 Grayson & Reinisch
 Munk, Edw.
 O'Brien & Co.
 Shaw, Alex. & Son
 Storm, A.
 Ziesenis & Panchard.
 LEAVENWORTH—Hoffman, S. O., 713 Shawnee
 Meincke, J., 507 Cherokee
 Naeher, Thos., 324 5th av
 Reyburn, T. T., 5th e Cherokee
 Varney Htg. & Mfg. Co. (Metal), 323 Chero-
 kee
 Zeltz, G. F., 117 N 3d
 LITTLE RIVER—Kaufman, J. D.
 McPHERSON—Nelson, F. E.
 Sellars, A.
 Sellars, Wm. A.
 Street, F. D.
 MINNEAPOLIS—Agnew & Son
 McConnell, David H.
 MITCHELL—Hindes, W. P.
 NEODESHA—Ditto & Co.
 NEWTON—Bachman, Chas. A.
 Bergh, Wm. (Slate & Metal)
 Follett, G. R. & Co.
 NORTH TOPEKA—(See Topeka)
 OBERLIN—Colt, J. B. Hardware Co.
 OTTAWA—Elder, A. P. (Asbestos & Tin)
 Pettit, J. C.
 Smith, O. H.
 PAOLA—Condon, S. D. & Co.
 PARSONS—Bragg, W. O.
 Buckley, A.
 Doughman & Rust
 Roush, E. D.
 Steele Hardware Co. (Gravel & Comp.)
 PHILLIPSBURG—Smith, Theo. & Son
 PITTSBURG—Bagley, J. P.
 Beasley & Miller (Slate, Metal & Gravel)
 Mosteller & Clark
 SALINA—Kastner, Chas.
 Morgan, W. M.
 TOPEKA—Raid, J. M., 216 W 6th av
 Forbes, D. H., 616 Kansas av
 Foucht, J. H., 825 Kans av
 Johns, Halterman & Co.
 Mood Plumbing & Heating Co.
 Nussbeck, Jno. G.
 Peterson, A. J., 1109 E 6th av
 Seybold, G. E.
 Seybold, J. H.

Sutherin, Geo. W. & Co.
 †Topeka Roofing Co. (John Bradly, Mgr.),
 (Com. Slate and Metal), 111 W 6th av
 Van Dorp, Louis (Slate & Metal), 828 Kansas
 av
 WICHITA—Buckley, Fred.
 Butler, H. R.
 Caswell & Hartsell
 Dermody Plumbing & Heating Co.
 Ketzler, Eugene F.
 Reitz, F. J.
 Stocker, O. B.
 Wilkie, Geo. W.
 WINFIELD—Dixon & McConn

KENTUCKY.

ASHLAND—Coburn, S.
 Hency Bros.
 Henderson, Thos. & Sons
 Karnap, Henry
 Phelps, F. K.
 AUBURN—Satterfield, E. W.
 AUGUSTA—McKibben, Bert.
 BARDSTOWN—Hart, M. S. & Co.
 Wallace, Claude
 BELLEVUE—Schaufelc, William
 Wagenlander, August
 BOWLING GREEN—Allen, Chas. S.
 Fleming, Mrs. M.
 McNamara, Jas.
 CAMPBELLSVILLE—Buchanan, T. W. & Co.
 Burriss, J. H.
 Hizer, H. L.
 OANMER—Weller, J. W.
 CARLISLE—Powell, J. G.
 CARROLLTON—Burckle, W. P.
 CATLETTSBURG—Ely, Charles W.
 Mims, A. Co.
 Williamson, Ben & Co.
 COVINGTON—Collopy, P. J.
 Covington Roofing Co.
 Feighery, Joseph
 Fischer's, Jno. A. Sons
 Gatch & Johnson
 Glaser, Wm. A. Roofing & Cornice Works
 Gottschalk, F. S. (Slate & Metal)
 Hesselman, Herman
 Hoelscher, Jno. A.
 Kampschmidt & Scholarmann
 Manwaring, Thos.
 Ramsey, Jos. M.
 Rasch's, C. F. Sons (Slate & Metal)
 Snyder, W. G. Co.
 Torline, Anthony
 Wachs, Wm. & Sons
 Waltermann, Nicholas H.
 CYNTHIANA—Colegrove & Reid
 Cook & Ingles
 Jenkins, Fred G.
 DANVILLE—Chestnut G. W.
 Durham & Scott
 DAYTON—Hermann, Martin (Slate & Metal)
 Poos, John
 ELIZABETHTOWN—Wintersmith's, R. L. Son
 EMINENCE—Koenigstein, Phil. & Son
 FLEMINGSBURG—Hammer, H. O.
 FRANKFORT—Baxter, W. E.
 Breslan, J. J.
 Jones & Miller
 Miller, George W.
 FULTON—Huddleston, A. & Co.
 Nolan, I. R.
 GLASGOW—Satterfield, P. E. & Co.
 Shader, A. & Son
 Shader, T. M.
 HARRODSBURG—Adams, Jno. H.
 Reed, W. H.
 HENDERSON—Barnard G. E. (Slate & Tin)
 Dade, H. F., Jr. (Slate & Tin)
 Harding & Felix
 Ross, J. D. (Gravel, Slate & Tin)
 Wallace, J. H. (Slate & Tin)
 HOPKINSVILLE—Adwell & McShane
 Ballard, H. C.
 Forbes Mfg. Co. (Slate, Gravel & Metal)
 Young, George W. (Slate & Metal)
 LA GRANGE—Fischer & Son
 LERANON—Bunnell & Clements
 LEXINGTON—Bitterman, Edw. & Son, 80 W
 Main (Slate & Metal)
 Cholvin, J. C. (near)
 Payne & Beard
 Sharp, Geo. B.
 Smith, Watkins & Co.
 Thompson, M. G., 16 S Upper
 Trowbridge, Thomas A.
 Van Deren Hdw. Co.
 White, H. A., 47 W Main
 Woodruff & Ballard
 LOUISVILLE—Abner, J. V., 142 Adams
 Abraham, M. Roofing Co. (Felt, Asphalt
 etc.), 101 W B'way
 Bates, J. W. (Felt & Gravel), 819 Main
 Bates, W. H., 1010 E Market

Blacker, Eva W., 314 E J
 Beck, J. M., 2411 W Main
 Becker, Jacob, 1803 W Main
 Bentley, John P. (Gravel, Asphalt, etc.),
 Birkel, Fred, 2203 W Market 231 3d
 Blacker, Eva W., 314 E Jeff
 Bohison, Henry, 2121 Preston
 Bohn, George P., 205 E Jefferson
 Bott & Young, 1017 Christy av
 Brenckmann, John, 1204 Preston
 Conen, H. J. (Metal), 1010 7th
 Conn, Geo., 2824 Cleveland av
 Darliger, Hy., 716 E Green
 Ellis, G. D., 1223 21st
 Everett, J. Guy (Metal & Slate), 1123 W
 Fink, P. & Sons, 315 1st Market
 Froumiller, John, 1612 E Main
 Gans, George, 1422 12th
 Garrett, B. F., 723 10th
 Geher, Fischer & Co., 323 2nd
 Genasco Roofing Co., 345 5th
 Hartlauf, Edw., 2005 W Market
 Heartick, E. G. (Metal), 1308 Preston
 Hebner, Fred, 911 E Gay
 Holstner & Son, 2621 W Main
 Holtzhauser, Henry, 1126 Preston
 Horn, Joseph F., 904 E Madison
 Hurvitz, Harris, 349 E Jefferson
 Hutchinson, O. E. & Co. (Tin & Slate),
 1005 W Market
 Imperial Wire Iron & Roofing Co. (Asphalt,
 Pitch, Felt & Gravel), 221 W Market
 Kaufer, Joseph, 416 33d
 Keller, Martiu, 2304 W Broadway
 Kirch, Henry A., 1203 Mulberry
 Kraus, Hy., 732 Shelby
 Krauth, H. P. & Son, 1301 Baxter av
 Lindenmaier, J. A., 1234 18th
 Louisville Cornice & Roofing Co. (Tin &
 Slate), 226 10th
 Mayfield, S. A., 753 E Main
 Metten, Henry, 1007 Goss av
 Miller, L. C., 804 26th
 Miller, P. & Son (Metal), 917 E B'way
 Nalty, S. J., 1849 Portland av
 National Roofing & Supply Co. (Asphalt,
 Pitch, etc.), 140 W Main
 Obrecht, Wm. F., 3519 4th
 Paine, C. H. (Metal), 323 West P
 Paine, W. H., 1453 18th
 Pfister, Leo, 2506 (a) W Market
 Porter, J. H., 2117 Portland av
 Ramser Bros., 1537 2d
 Ramser, Edw. (Metal), 3116 4th
 Ramser's, Geo. Sons, 1027 3d
 Ransdell & Jutz, 834 E Market
 Reck, John, 1626 W Main
 Ricketts, C. A., 1330 15th
 Roth, J. & Son, 1403 Story av
 Schott, Charles W., 755 E Green
 Schreick, Jacob & Co., 1406 Preston
 Sicking, Henry, 2103 Olmstead av
 Sicking, J. E., 2813 Dumesnil
 Sicking, T. A., 234 W Green
 Smith, Geo. L. (Slate & Metal), 513 1st
 Southern Roofing & Paving Co., 1006 W
 Stauble, C., 1106 Frankfort av Main
 Standard Roofing Co., 1126 Preston
 Stoker, W. E., 639 E Main
 Steele, Henry K. (Gravel, etc.), 2419 W Mad-
 ison
 Sullivan, Owen M., 1912 12th
 Tohe, W. F., 514 E Jeff'n
 Tolley, S. & Co., 630 8th av
 Torsch, Herman, 1002 Dumesnil
 Troxell, S. F. Co. (Felt, etc.), 108 3d
 Wagner, H. J., 1600 7th
 Wagner, Joseph F. & Sons (Slate & Metal),
 Wallace, W. C., 1203 Winter av
 Wesbecker, Jos., 714 12th
 Wobbe, F. H., 741 E Jefferson
 Wulff, W. C. & Co. (Slate, Tile & Metal),
 Zeller, M., 1611 Clay 603 E Jefferson
 LUDLOW—Buchanan, David S.
 Wilson, C. A.
 MADISONVILLE—Bourland & Moore
 Harned & Osburn
 MAYSVILLE—Leonard & Lally
 McClenahan & Shea
 Power, W. F.
 MOUNT OLIVET—Tudor, Thoms
 NEWPORT—Bagby, Edward A.
 Bary, L. M. & Co.
 Ehinger, Jos.
 Glohe Iron Roofing & Corrugating Co.
 Henderson, O. L.
 Letcher, Henry
 Listerman, Jno.
 Ochs, George J.
 Rath, F. G.
 Reder, Henry
 Rust, L. & Son
 Scherrer, John & Son (Slate & Tin)
 Schweikert, J. N.
 Wagenlander, F. & Co.

OWENSBORO—Frederick, J. C. (Tin & Slate)
Guenther, W. A. & Sons (Tin & Slate)
Holbrook, R. R.
Kentucky Coruice & Roofing Co.
Killian, P. F.
PADUCAH—Clayton, T. H.
Davis, G. R. & Bro. (Slate, Granite &
Fowler-Wolfe Sheet Metal Works Metal)
Hank Bros.
Maret, John C. (Slate & Tin)
Miller, C. J.
Scott, W. D.
PARIS—January & Connell
Lowry & Talbott
Perry, Benjamin
PRINCETON—McCoy & Roscoe
Maret, H. T.
Ratcliff, Charles
Rucker & Edwards
PROVIDENCE—Benjamin, J. B.
RICHMOND—Taylor, C. A.
SHELBYVILLE—Casey, J. M.
Owen & Moore
SOMERSET—Fricke, H. F.
Humble, A. R. & Son

LOUISIANA.

ALEXANDRIA—Roberts Bros.
BATON ROUGE—Gessell, Frank
Williams, M. J.
CROWLEY—Fontenot, Louis D.
DONALDSONVILLE—Scharff, H. & Son
HOUMA—Babin, Teles
Ridley, Clarence A.
JEANERETTE—Jeanerette Hardware Co.
Napier, S. J. & Co.
JENNINGS—Smith, J. M.
LAFAYETTE—Graser Bros.
Picou, A.
LAKE CHARLES—Balrd, W. E.
Braden, C. M.
Murray-Brooks Hardware Co.
LAKE PROVIDENCE—Fousse, N.
MONROE—Moore, J. L.
Sanders, John G. (Gravel, Slate, etc.)
MORGAN CITY—Boutterle, Vic.
Shannon, Thomas
NAPOLEONVILLE—Blanchard Bros.
NEW IBERIA—Ribbeck Mfg. Co.
NEW ORLEANS—American Sheet Metal Works,
S Carrollton av & Edinburg
Anderson, Alfred, 713 Carondelet
Annan, A. Hill (Slate), 510 Carondelet
Appel, John, 935 Julia
Becker, J. Frederick, 2027 Magazine
Blanke's, Henry H. Sons, 2353 Tchoupitoulas
Blessey, F. H., 4701 Magazine
Brady, Dennis, 1763 St. Charles av
Carey, Philip Mfg. Co. (Comp.), 222 Chartres
Dendlinger, Jacob, 352 St. Joseph
Downey, Richard J. Co. (Slate), 509 St. Charles
Frederick, Hugo H., 929 Tchoupitoulas
Gerber, Jacob, 1623 Dryades
Gulf Galvanizing & Metal Works, 1229
Carondelet
Hamburger, John, 3143 Dauphin
Harry Bros. Co., S Carrollton av & Edinburg
Haubert, Philip, 3820 Dauphine
Heiny, Frank, 904 1st
Holzer, Rudolph G., 317 Burgundy
Ibos Bros., 522 Chartres
Jones, J. Wilton, 612 Bienville
Kelly, James, 728 Magazine
Kleinschmidt, Geo., 3531 Baronne
Kracke & Flanders (Comp.), 630 Gravier
Lagan, Mathew D. (Copper, Tin & Sheet
Iron), 108 Common
Lemley, David (Copper & Metal), 355 Bar-
Levy, Emile, 1525 Dryades
Louisiana Boiler & Sheet Iron Works, 2344
Euphrasine
Louisiana Roofing Co., 407 Tchoupitoulas
Lubben, John, 115 Magazine
Memory, R. G. & Son (Comp.), 633 S Roman
Mesa, Weitham & Co., 1744 Erato
Munchow, Emile (Slate), 800 Louisiana av
National Blow Pipe & Mfg. Co., 632 Tchou-
pitoulas
Nelson, A. J. Mfg. Co. (Ltd.), Howard av c
Dryades
New Orleans Roofing & Metal Works
(Metal, Asphalt & Gravel), 936 Lafayette
Pelican Iron Works, 139 Alix
Redmond, B. V., 340 Chartres
Reppel, Chas., 1060 S Rampart
St. Germain, Bertrand, 730 Touro
Southern Cornice & Ornamental Works, 2127
Magazine
Steffens, L. A., 474 Josephine
Thompson, Edward Co., 530 Natchez
Troy, Gus, 1123 Josephine
Twickler, Wm., 4530 Magazine

White, A. H. Co. (Ltd.) (Asphalt, Gravel,
Pitch & Tile), 530 Gravier
Whitney Supply Co. (Comp.), 200 S Peters
Woodward, Wight & Co. (Comp.), 418
Zansler, Edw. L., 325 Decatur Canal
PLAQUEMINE—Fortune, L. N.
Smith, H. A.
SHREVEPORT—Adams & Son (Tin & Slate)
Bain, H. H.
Brewer, C. J. (Tin & Plate)
Wortman & Wylie (Tin & Slate)

MAINE.

ANDOVER—Smith, Fred. S.
AUBURN—Elms, James
Haskell, L. W. & Co.
AUGUSTA—Cogan, J. H. & Co.
Conant, W. H.
Malcolm & Dyer
Swift & Turner
Taber, Carey & Reld
Ward, A. D.
BANGOR—Clement & Brown Mfg. Co.
Gould, J. P.
Leighton Plumbing & Heating Co.
Millett, Bartholomew
Reilly, R. J. (Slate & Metal)
Rudman, Samuel
Semple, S. T.
BAR HARBOR—Green & Reynolds
Lawrence, A. E.
BATH—Barton, G. H. W.
Rogers, C. W.
Watson, W. H.
Winslow, J. A. & Son
BELFAST—McDonald, H. E. (Tar & Gravel)
Mitchell & Trussell
Stickney, J. B.
Wright, C. L.
BIDDEFORD—Antholne, George A.
Ham & Antholne
Lowell, John B.
BINGHAM—Lander, J. J.
BLUE HILL—Stanley, I. E.
BOOTH BAY HARBOR—Holton, W. T.
Ingraham & Harris
Lake, J. H.
BREWER—Woodbury, S. H. & Co.
BROOKS—Lane, Otis W.
BRUNSWICK—Furbish, B. L.
Ridley, Geo. B.
BUCKSPORT—Beazley, E. L.
Buck, Horace E.
CALAIS—Huston, Thomas A. (Gravel, etc.)
McGarrity, Maurice
CAMDEN—Bowers, J. W. Co.
CARIBOU—Briggs, Samuel E. & Son
Shaw, H. M. & Son
CASTINE—Stover, F. N.
DAMARISCOTTA—Keene, W. W. & Son
DEXTER—Crockett & Tilson
DOVER—Lander, J. Q.
EASTPORT—Martin, E. S. & Son
Spates, W. T.
ELLSWORTH—Morrison, Joy & Co.
FAIRFIELD—Totman, A. H.
FARMINGTON—McLeary, Wilfred
FORT KENT—Dugal, A. L.
FREEPORT—Brewster, J. A.
FRYEBURG—Page, Seth A. & Co.
GARDINER—Kelley & Wheeler
GORHAM—Brown Bros.
GREENVILLE—Crockett, Daniel
GUILFORD—Page, Spearling & Co.
HALLOWELL—Church, John W. & Son
HOULTON—Hamilton & Webber
Smith Bros.
ISLAND FALLS—Berry, C. M.
KENNEBUNK—Lunge, Harry E.
KENNEBUNKPORT—Wells, Alfred M.
KEZAR FALLS—Mason, Geo.
LEWISTON—Chase, J. H., 191 Lisbon
Goss, A. L. & E. F.
Gullmet Co.
Howard, A. A. & Son (Slate & Gravel), 36
Howard, Nelson (Gravel), 36 Lisbon Spring
Pratt, T. L., 183 Lisbon
Stetson, J. H. Co. (Slate & Metal), 65
LIBERTY—Knowlton, J. L. Lisbon
LIBRON FALLS—Bailey, Charles E.
Brewster, J. H.
LUREC—Trecartin Bros.
MACHIAS—Bowker, F. W. & Co.
Crane Bros.
MECHANIC FALLS—Hawkes & Whitney
VILIBRIDGE—Burnham, F. W.
Shaw, William
MOUNT VERNON—Fellows, F. O.
NEWPORT—Deering, R. A. & Son
NORWAY—Crooker, James O.

PITTSFIELD—Getchell, T. E.
Hazeltine, Jos. S.
Lancy, T. G. & Co.
OLD TOWN—Godfrey, F. N.
ORONO—Bond, Nathaniel W.
Park, F. C.
PORTLAND—Alexander, Arthur R., 22 Monu-
ment sq
Bourne, M. B. & Son (Slate), 33 Temple

CLASON SNOW GUARD

428 Kinsley av, Providence, R. I. (See
adv. Index, end of book)
Gerrish, J. J. Supply Co.
Hersey, Ellas Roofing Co. (Felt Composition
& Gravel), 22 Monument sq
Hollivan & Parker (Gravel & Asphalt), 56
Cross
Hutchinson & Cain (Metal), 438 1/2 Fore
McBrady, Jas. E. & Son (Metal), 229 Fed-
Mank, F. E. & Co. (Concrete & Gravel), 21
Nash, F. & C. B. Co., 386 Fore Preble
Nash, O. M. & D. W., 6 Exchange
Scott, Wm. H. Co. (Metal), 29 Union
William, C. G. B.
RICHMOND—Haynes, J. & Sons
Rogers Bros. & Co.
ROCKLAND—Crockett, J. (Gravel)
Wight, James
ROCKPORT—Libby, A. & Son
SACO—Lord, A. T. & Son
SANFORD—Huff, Geo., W Main
SKOWHEGAN—Ross, C. A.
Steward Heating & Plumbing Co.
Wood, F. A.
SOUTH BERWICK—McIntire, D. E.
SOUTH PARIS—Richardson, J. P.
SOUTH PORTLAND STATION—Tilton, C. A.
& Co.
SPRINGVALE—Makin, J. H.
THOMASTON—Webber, M. E.
WALDOBORO—Curtis, C. H.
Richards Bros.
WARREN—Jameson, E. E.
WATERVILLE—Arnold, W. B. & Co.
Hanson, Webber & Dunham
Pointville, J. C.
WESTBROOK—Knight Bros. & Co.
WOODFORDS STATION—Crockett & Gordon
Cutts & Boyman
Madsen & Allen
Wheeler, F. E.

MARYLAND.

ANNAPOLIS—Annapolis Stove & Tin Co.
Carr, W. H. & Co.
Granite Plastic, Slate & Slag Roofing Co.
(Plastic Slate, Metal, Slate Tile, etc.), 882
Wilson, C. A. L. Ryan
BALTIMORE—Baltimore Roofing & Coal Tar
Co. (Asphalt, Gravel & Comp.), 1215
Leadenhall
Banks, Wm. H. & Sons, 405 Druid Hill av
Baughner, Joshua W., York rd opp Homeland
Betzler, W. F., 427 N High
Blen, John, 718 Sann
Bley, J. H., 1010 W Baltimore
Boudurant, W. C., 511 Scott
Bracken, J. F., 124 Richmond
Burrows & Broderick, 1539 Maryland av
Carey, Philip Mfg. Co. (Asphalt, Gravel &
Comp.), 332 North
Carter, H. G., 1900 W Lombard
Conway, W. A., 626 Forrest
Clarke, Wm. Wirt & Son, Builders' Exch.
Clifton Coruice & Skylight Wks., 427 N
Cotton, Wm. E., 1600 Harford av High
Crandall, R. A. & Bro., 1112 W Baltimore
Craven, Thos. M. (Asphalt, Gravel, etc.),
613 S Green
Crout, W. F., 1121 Patterson av
Dorries, C. H., 2413 Orleans
Eckhoff, John P., 3 N Exeter
Fingles, Wm. A., 1533 Maryland av
Fitzberger, T. Frederick, 213 Park av
Foy, Edw. L. & Co. (Asphalt, Gravel, Comp.
& Felt, Slate & Tile), 16 W Camden
Frederick, M. J. & Bro., 317 Park av
Garthe, Wm. Co. (Slate, Metal & Tile), 1527
Maryland av
Genasco Roofing Co., 811 Equitable bldg
George, Conrad, 924 S Sharp
Gibson, S. S., 601 N Payson

GILMAN SNOW GUARD

103 Merrimac, Boston, Mass. (See adv.
index, end of book)
Guetler, Geo., Sabina av c Mattfeldt av
Guarantee Roof & Metal Pt. Co., 307 North
Hartman, A. N. (Slate & Tile), 207 W
Saratoga

Hetzl, John G. & Son, 225 N Howard
 Hicks, C. A., 911 3d av, N
 Hill, Harry W., 1812 Fkd av
 Irwin, John, 1144 York rd
 Kaestner, E. A., 516 N Calvert
 Kahlein, Fred'k., 1121 Carroll S
 Kaiser, F. W. & Sons, 1408 Orleans
 Klrwan, Wm. T. A., 10 W Fort av
 Kohlhepp, A., 404 N Howard
 Kolscher, J. F., 740 W Saratoga
 Kraus, C. C. & Co., 1337 W Lombard
 Kraus, H. M., 2338 Pa. av
 Kreh, J. H., 944 W Lexington
 Lenderking, Philip H., Jr., Dillon c Patuxent
 Loewenstein, G. W. (Slate & Tile), 1835 W Franklin

Lowrey, J. F., 826½ W Baltimore
 Maag, August, 107 S Sharp
 Maryland Tar Roofing Co. (Asphalt, Gravel, Comp., etc.), 130 S Charles
 Miller, J. F., 1511 W Baltimore
 Miller, W. H. & Bro., 1425 Patterson av
 Mixer, J. S., 1004 5th av, N
 Muhl Bros. Co., 1314 W Balto.
 Mullenberg, Chas. H., 1303 Dmnd Hill av
 Nelghoff, F. M., 770 Fkd av ext
 Nohle, H. & Co. (Asphalt, Gravel, etc.), 623 S Caroline

Northwestern Cornice Works, 1506 Pa. av
 Ohn, P. H., 707 W Lexington
 Parsons, N. E. & Son, 910 2 av, N
 Plumshoff, H. G. & Co., 340 N Calvert
 Popple, H. F. & Co., 1822, Hartford av
 Pruden, C. D. Co., Builders' Exchange
 Raphael, Nohle S., 20 E Centre
 Reinhardt, Henry J., 104 E Saratoga
 Renna, Chas. C., 125 Pearl
 Rode, F. H., 1929 E Fayette
 Ruhher & Asbestos Roof Painting Co., 504
 Russell, G. W., 238 S Strickler N Calvert
 Sauerland, A. P., 1101 Pa. av
 Schoenberger, Henry, 1304 N Gay
 Schultz & Ellis, 1246 Jackson
 Sellman, J. H., 2224 York rd
 Smick, Hy. (Slate & Tile), 1109 Greenmount
 Smith, C. L., 1100 William av
 Thomas Paint Mg. Co. (Asphalt, Gravel & Comp., etc.), 754 W Baltimore
 Todd, Geo., Chase c Asquith
 Trenton Architectural Cornice Works, 132 S Charles

Trotter, John R., 305 E Preston
 Vaile & Young, 216 N Calvert
 Vollenweider, J., 1506 Penna av
 Wachsmuth, Chas., 935 S Charles
 Walker, William B., 522 Druid Hill av
 Ward, Wilbur F., 20 W Pratt
 Warren-Ehret Co. (Tile, Asphalt, Gravel & Slag), ft Warren

Wiegel, G. W. C., 1500 Penna. av
 Wilhelm, C. H. & Son, 204 W 23d, N
 Wilhelm, J. Frank, 748 Pa. av
 Wilkinson, O. A., 112 N Caroline
 Winchester, J. H., 826 N Gay
 Zeller, W. F. & Co., 1119 Denver
 Zimmers, A. M., 1808 Frederick av

CAMBRIDGE—Anthony, William F.
 Botham, L. W.

CATONSVILLE—Fisher, George
 Wilson, Frank

BEL AIR—Brown, Charles C.
 Heuer, Wm. W.

CHESTERTOWN—Aldridge, J. K. & Co.

COCKEYSVILLE—Kraus, L. P.

CUMBERLAND—Gessner, Geo.

Habig & Stegmaler
 Langer, William
 Morehead's, Wm. Sons
 Rawlings, S. H.
 Rizer, Charles L.
 Thumel, Theodore
 Wolz, J. L.
 Zilch, J. G.

EASTON—Harnett, W. J.

ELKTON—Alexander & Son (Tin, Iron & Felt)
 Boulden, H. R.

ELLICOTT CITY—Fisher, C. C.
 Fisher, J. C.

Meads, Jas. F.

EMMETTSBURG—Adelsherger, J. M. & Son

Hays, J. T. & Sons

FREDERICK—Fox, L. M.

FROSTBURG—White, R. & Son
 Wolf & Sons

Wolfe, Mrs. C. E.

HAGERSTOWN—Boward, Louis D.

Brown, W. H.
 Carlisle, R. B.
 Danzer Metal Works
 Hoch, H. K.
 Miller, J. Z.
 Saum, E. K.
 Wagner, Harry R.

HAVRE DE GRACE—Case, N. B.

Murphy, John T.

Sanders, W. M.

PORT DEPOSIT—Stephenson & Reynolds

REISTERTOWN—Brown, J. V.

Gormley, J. W. & Son

ROCKVILLE—Vielt, Henry

SALISBURY—Dorman & Smyth Hdw. Co.

Gunby, L. W. Co.

UNION BRIDGE—Hollenberger, John M.

WESTMINSTER—Gilbert & Gehr

Grumbine, W. H.

Westminster Hdw. Co.

WILLIAMSPORT—Herbert, Sarah E. (Mrs. Z. M.)

Reichter, E. E.

MASSACHUSETTS.

ADAMS—Morrissey, Wm. H.

Todd, F. S.

Weston, L. A.

AMESBURY—Brown, Leonard

Mulligan, Patrick J.

Noyes, E.

AMHERST—Phillips, S. A. (Metal & Asbestos)

ANDOVER—Welsh, Wm. H.

ARLINGTON—Shattuck, R. W. & Co.

ASHBURNHAM—Marble & Gilson

ASHLAND—Enslin, Franklin & Co.

ATHOL—Fisher, W. C. (Slate)

Smith, C. H., Athol Centre

Ward, A. T.

ATHOL CENTRE—Lee, Samuel

Smith, C. H.

ATTLEBORO—French & Brownell Hardware Co.

Gay, Irving M.

Gifford, James W. Co.

Jones, Richard H.

Perry, N. & Co.

AUBURNDALE—Gammons, R. F.

Walker, E. A.

AYER—Fillebrown, A. A. & Co.

BEVERLY—Hinkley, George F.

BLACKSTONE—Copeland, C. A.

BOSTON—Albee, C. W., 71 Hancock

Allen, E. H. Co., 41 Beverly

Anderson, Clas, & Co., 41 Way

Anderson, E., 49 Washington N

Anderson, Gustaf, 21 Green, J. P.

Asphalt Roof Coating Co., 127 Federal

Badger, E. B. & Son Co. (Copper, Gravel & Tin), 67 Pitts

Banash, Hy. A., 121 Ruggles

Bannen, Jas. P., 31 Joy

Berry, Wm. B. & Co., 79 North

Binney, John & Son, 326 Atlantic av

Blacklow, N. & Son, 104 Fulton

Bloomberg, Abraham M., 29 Haverhill

Boston Roofing Co., 21 Bromfield

Brainard, John C., 930 Tremont

Buchanan, Geo. J., 424 Atlantic av

Carlin, Wm. J., 18 Cambria

Carey, Arthur J., 350 Warren, Rox.

Chamberlin, S. W. Co., 25 Union

Cleaves, Stephen A., 631 Wash'n, Dor.

Crossfield, H'y, 418 Blue Hill av

Daly & Co., 1006 Tremont

Devine, C. (Slate & Metal), 21 Pitts

Dorn, Philip F., 92 Union

Drennan, Arthur, 67 Dundee

Eagles, L. A., 600 Dudley

Egin, Clarence L. & Co., 41 Washington

Ellot Sheet Metal Works, 121 Ellot

Elwell, G. R., 7 E Springfield

Ely, J. B. & Co., 74 North

Evans, A. B. & Co. (Slate, Gravel & Metal).

Falk, B., 1 Oswego

Farquhar's, John Sons (Inc.) (Slate, Copper, Metal & Gravel), 22 East

Feeney, John, 14 N Grove

Feneno, B. & Co., 1480 Tremont

Felstead, Wm., 20 Blackstone

Finn, D. E., 78 Revere

Flanagan, D. L., 89 Compton

Forrest, Alfred W., 464 Harrison av

Freundlich, Max, 133 Boylston, J. P.

Gallagher, D. F. & Co. (Metal), 279 Com-

Gillespie, J. Y., 708 Columbia rd

mercial

Harrington, Eben, 278 Bennington, E. B.

Hayden, Francis, 490 Harrison av

Henderson, A. W., 636 Warren, Rox.

Hind, Thos. J. (Slate, Asphalt, Gravel, Tile & Metal), 19 Milk

Hobbs, H. S. & Son, 112 Harrison av

Hoffman, E. S., 642 Washington, Dor.

Houghton, J. F. & Son, 114 Green, J. P.

Hourihan, John J. (Slate, Metal & Gravel), 7 Walden, Rox.

Hobbs, H. S. & Son, 112 Harrison av

Hoffman, E. S., 642 Washington, Dor.

Houghton, J. F. & Son, 114 Green, J. P.

Hourihan, John J. (Slate, Metal & Gravel), 7 Walden, Rox.

Howes, S. M. Co., 40 Union

Hub Sheet Iron Works, 54 Broad

Improved Plastic Slate Roofing Co., 28

Kesselhuth & Co., 1 Eliot sq, Rox. School

Krogman, Frank W., 23 Exchange

Lantz, Wm. H. & Co., 67 Beverly

Lapp, Max, 28 Lowell

Leighton, Geo. A., 119 Summer, E. B.

Loehr, A. H., 20 Kneeland

Lucke, L. & Co., 37 Prentiss

Lutz, C. A., Jr., 36 Eliot sq, Rox.

McGinnis, E. C. (Slate & Metal), 86 Chardon

McGrath, W. W., 130 Border

McKenzie & Gillespie, 22 N Center

Madden, John J., 1158 Columbus av

Maguire, W. J. (Slate & Metal), 544 Wash-

Martin, George, 54 E 8th, ington, Br.

Martin, Jno. & Co., 63 Gates, S. B.

Mason, G. H. & Co., 152 Blackstone

Maxcey, W. H., 638 Wash., Dor.

Mayberger, Edw. F., 95 Milk

Meade Roofing & Cornice Co. (Slate, Metal & Tile), 14 L, S. B.

Miller, S. P., 48 B'way extension

Moore, Richard, 4 Province ct

Mullen, John H., 16 Southampton, Rox.

Murphy, J. & Co., 389 Tremont

Murphy, M. F., 55 Sudbury

Murphy & Co., 139 Kingston

Murray, John A., 17 Scotia

Murfeldt, W. A. Co. (Comp. Slate & Metal), 161 Devonshire

National Roofing & Repairing Co., 14 Brat-

tle sq

New England Felt Roofing Works (Felt.), 18

Ormsby, T. L., 88 W B'way P. O. sq

Parker's, C. S. Sons (Slate & Metal), 142

Penshorn, Geo., 209 Washington Charles

Pempel, Fred, 206 Ruggles

Penn Metal Ceiling & Roofing Co. (Ltd.), 559 Atlantic av

Penshorne, Geo., 209 Wash'n

Rice, John S. & Co., 23 John

Richards, Geo. H., 457 Dudley

Riley's, H. Sons (Slate & Metal), 97 W Concord

Riley, James E. & Co. (Slate & Metal), 95

Rodday, Sam'l, 1130 Dorchester av Milk

Smith, James C. (Slate & Metal), 312 Dover

Smith, John A., 180 Border

Sonderman, H. & Son (Slate, Tin & Gravel), 27 Marcella

So. Boston Roofing Co. (Slate, Metal & Comp.), 490 B'way

Sparham Cement Roofing Co., 53 State

Tarpey, T. H. & Co., 31 Bowker

Taylor, E. R. Co. (Gravel), 164 Federal

Union Cornice Co., 7 Appleton

Walker & Pratt Mfg. Co., 31 Union

Warren Bros. Co. (Asphalt, Tar, Tile & Slate), 93 Federal

Weber, F. I., 573 Dorchester av

Wells, J. L., 16 Sullivan, Chen.

Weinberger Bros., 17 Lewis, E. B.

Werner, Sam, 33 Dundee

Williams, G. J., 8 Beacon

Williams & Daly, 180 Dudley

BRAINTREE—Bates, F. A.

BRIDGEWATER—Fairbanks, J. H.

Rogers, J. B.

Shaw, C. M.

BROCKTON—Alden Sheet Metal & Plng. Co.

Brown & Morrow, 240 Main

Carlson Bros.

Carr, J. E. & Co., 1036 Main

Dahlborg, C. F. (Metal & Gravel), 973 Main

Hickman, Jno. (Slate, Metal & Gravel, 12

McCabe, A. F. Court

Masfield, Edw. A. (Gravel & Slate), 46

Waterman, C. H., 753 N Main Main

BROOKLINE—Kenrick Bros.

Mackey, Jas. P.

Murray, H. J. & Co. (Slate, Metal & Gra-

vel), St. Andrew's bldg

Palne Bros.

CAMBRIDGE—Ames & Ginty, 1st c Main

Blevins, John. J. (Slate, Metal, Granite, etc.), 696 Mass. av

Brock Bros., 1372 Mass. av

Brock & Eaton, 1362 Mass av

Douglass, Geo. (Slate, Metal & Gravel), 268 Prospect

Eagle Cornice & Skylight Works, Decatur c Brookline

Gordon, Wm. (Slate, Metal & Gravel), 19

Moore & Hadley, 8 Brattle State

CLASON SNOW GUARD

428 Kinsley av, Providence, R. I. (See adv. index, end of book)

Cleaves, Stephen A., 631 Wash'n, Dor.

Crossfield, H'y, 418 Blue Hill av

Daly & Co., 1006 Tremont

Devine, C. (Slate & Metal), 21 Pitts

Dorn, Philip F., 92 Union

Drennan, Arthur, 67 Dundee

Eagles, L. A., 600 Dudley

Egin, Clarence L. & Co., 41 Washington

Ellot Sheet Metal Works, 121 Ellot

Elwell, G. R., 7 E Springfield

Ely, J. B. & Co., 74 North

Evans, A. B. & Co. (Slate, Gravel & Metal).

- Nixon, Robt. G. (Slate, Metal & Gravel).
8 Kenwood
Peak, Howard F. (Slate, Metal & Gravel).
Quinn, Terrance F. 1440 Mass. av
CAMBRIDGEPORT—(See Cambridge)
CAMPELLO—(See Brockton)
CHELSEA—Howe, Jno., 672 B'way
Miller, Emil
O'Brien, D. A. & Son, 1 Front
Woodman, L. H., 22½ Bloomingdale
CHICOPEE—Benn, Gabriel, 45 Cabot
CHICOPEE FALLS—Enright, P. J.
CLINTON—Eyre, Fay & Plummer (Felt)
O'Toole Bros.
COHASSET—Bates, Allen C. (Est. of)
CONCORD JUNCTION—Poor, F. E.
COTTAGE CITY—Chirgevin, T. H.
Mayhew, John L.
DALTON—Ford & Parker
Shedd & Messinger
DANVERS—Caskin & O'Connell
Ropes, J. E. & Co.
DEDHAM—Keelan, M. & Son
Russell, Charles (Est. of)
EAST HAMPTON—Ferris, Addison J. (Asbestos)
Newkirk & Thurston
Owen, B. P.
EVERETT—White, A. W.
FAIRHAVEN—Forrest, E. W.
FALL RIVER—Archard, R. J. (Gravel), 60
Murray
Cash, Henry N. (Felt, Comp., Gravel & Asphalt), 552 State
Williston, Chas. H. (Comp. & Gravel), 171
Williston, Fred'k D. Pleasant
Wilcox, D. T., Jr., 46 Granite
Wordell, A. B., 339 Fountain
FALMOUTH—Falmouth Plumbing Co.
Lawrence & Hall
FITCHBURG—Edwards, Wm. Slate Co. (Slate & Metal), 83 Water
Knowlton, George B., 3 Main
Normandin Bros., 200 Clegborn
Patch, Lyman Co., 390 Main
Porter, A. S. & Co.
FLORENCE—Addis, E. O.
FOXBORO—Swift, E. B., 31 Market
FRAMINGHAM—Connor Bros.
FRANKLIN—Hosie, G. W. & Son
GARDNER—Cote, Edward, Jr. (Slate, Tin & Gravel)
Curtis, H. O. & Co.
GLOBE VILLAGE—Lewis, W. C.
GLOUCESTER—Bolger, Thos. P. & Co.
Hale, J. P. & Co.
Smith L. E. Co., 221 Main
GRAFTON—Montague, E. J.
Smith, S. F. & Son
GREAT BARRINGTON—McManus, James
Turner, F. H. & Co.
GREENFIELD—Ryan Bros. (Slate)
GROTON—Blood, F. M. & Co.
Blood, Geo. H. & Co.
HANOVER—Magoun, H. N. & Co.
HAVERHILL—Crockett, Laura A.
Sargent, Ada F. (Slate, Gravel & Tin), 20
River
Wilson, Jas. (Slate, Gravel & Tin). Pleasant
HIGHLANDVILLE—Thomas, Hy.
HINGHAM—Loring, Enos
HOLLISTON—Adams & Co.
HOLYOKE—Edwards, T. & Co., 530 High
Farrell, Jas. E. (Comp.), 131 Maple
Friedrich, E. Hugo (Slate, Metal, Gravel & Tile), 148 Main
Gibson, Thomas J. & Co. (Gravel & Plastic Slate), 32 Main
Grant, John H. & Son (Comp.), 80 Nonotuck
Kennedy, R. F. Co.
Lyman, Chas. P., 139 Main
Sullivan & Carmody, 171 High
HUDSON—Glines, G. Fred (Metal)
Glines, G. Fred (Metal)
HUNTINGTON—Allen, E. A.
HYANNIS—Bradford, Myron G.
HYDE PARK—Barrett, Edward L.
Chisholm, Collin C.
Johnson, A. J. (Copper, Tin, Slate & Gravel)
Shepherd, Peter (Slate, Tin & Gravel)
IPSWICH—Dunnella, John M.
Goodhue, John W.
Plouff, Aug. H.
KINGSTON—Clark, George H.
Myrick, Wm. H.
LAWRENCE—Bingham, John F. Mfg. Co., 25
B'way
Horn, Geo. W. (Slate & Metal), 613 Common
Pierce, J. B. & Co. (Gravel & Comp.), Chase
Rutter, W. F. & Co. c French
Slater, John Co., 453 Essex
Smith & Bingham, 16 Sargent
Wood, Elijah
Wurzbacher & Co., 21 Jackson
LEE—Hayes, M. H. (Slate, etc.)
Heaphy, Wm. A. (Gravel)
Howland, W. C.
Smith & Hawks
LENOX—Bull, W. B.
O'Brien, Richard
EOMINSTER—Burrage, H. E. Co.
Draffin, Alex. (Slate, Gravel, etc.)
Potter, F. S. (Slate & Gravel)
Smith Bros.
LOWELL—Cushling, Daniel & Co. (Slate & Metal), 398 Middlesex
Cushling, Daniel & Co. (Slate & Metal), 398 Middlesex
Douglas, J. L. & Co. (Slate & Metal), 147 Rock
Fitzpatrick, H. J., 179 Lake View av
Gilligan, Thos. F., 122 Fayette
Henault, Jos. (Slate & Metal), 126 Cheever
McEwan, Curtis
Mack, Wm. A. & Co. (Slate & Metal), 25 Shattuck
Mooney, Jas. F. (Slate), 726 Middlesex
Ryan, Jeremiah, 102 Lake View av
Taylor Roofing Co. (Gravel, etc.), 140
Thatcher, H. F. Humphrey
Weaver, S. H. & Son (Gravel), 810 Middle-
Wilder, H. H. & Co., 29 Market sea
LYNN—Annable, E. S.
Bee, John D. & Sons (Slate, Metal & Gravel),
Bertram & Fox, 45 State 45 Sea
Eklund, Victor
Hughes, Jas. R., 757 Western av
Pool, H. F., 5 Market
Quinn, Martin L. & Co. (Gravel, Slate & Metal, 21 State
Rellance Roofing Co. (Metal, Gravel, etc.), 61 Market sq
MALDEN—Libby, L. L. (Gravel & Tar), 38 Maple
Rittenhouse, W. F.
MANCHESTER—Beaton, D. T.
Carter, J. W.
MANSFIELD—Fuller, W. C. Co.
MARBLEHEAD—Donovan, Peter J.
MARION—Coggeshall, Frank B.
MARLBORO—Hanley, J. J.
Hill, Wm. H., 114 Main
MARSHFIELD—Belknap, Herbert F.
Stevens, Oscar
MATTAPOISETT—Curtis, Addison
MAYNARD—Holt, Abner D.
MEDFORD—Richards, W. S., 24 High
MEDWAY—Ferry, Ralph
MELROSE—Philpot, Robert, 76 Dell
METHUEN—Homer, E. B.
Sanborn Furnace Co.
MIDDLEBORO—Doane, J. & G. E.
MILFORD—Ellis, Clark & Sons
Norris, Staples & Gould
Smith, Jno. L.
MILLBURY—Ferguson, J. H. & Co.
Thompson, H. W.
MILLERS FALLS—Mathewson, Donald E.
MILLIS—La Croix, Edw.
MILLVILLE—Moloney, J. P.
NANTUCKET—Austin, Chas. W.
Barrett, Geo. A.
NATICK—Fiske & Co.
NEW BEDFORD—Bertram, John & Son, 59 Borden
Cejka, Louis, 158 Cedar Grove
Lloyd, Llewellyn, 205 Highland
Perkins, A. W. & Co., 167 Hillman
Sawyer, S. P.
Thacher, Thos. N., 63 N 2d
NEWBURYPORT—Foley, Richard J.
Greeley, Geo. E.
Holker, Wm.
Noyes, Daniel F.
Thomas, Thomas P. (Slate & Metal)
NEWTON—Leavitt, W. P. & Son (Slate, Metal & Comp.), 29 Pearl
Swartz, Jacob
Thayer, S. O. & Co.
NEWTON CENTER—Wilson, W. J.
NEWTON HIGHLANDS—Kieser, C. D.
NEWTON LOWER FALLS—Gammons, L. A.
NEWTON UPPER FALLS—Trowbridge & Es-
terbrook
NEWTONVILLE—Bickford, C. S.
Orr, H. W. Co.
NORTH ADAMS—Henry, F. O. & Co.
Hicks, Thos. H. (Slate), 43 E Brooklyn
Lyons, James T.
Tower & Porter
NORTH ATTLEBORO—Hall, Wm. M.
NORTH BROOKFIELD—Devo, Chas. H.
NORTH EASTON—Kelley, E. E.
Lynch & Bourbeau
NORWOOD—Foreman, Wm.
Huntoon & Co.
ORANGE—Hill, G. L.
Train, E. W. & Co.
ORLEANS—Newcomb Alex. T.
OSTERVILLE—Hallett, G. W.
PALMER—Brown, E. Co.
- PEABODY—Norton, Benj. F.
Sears, Frank L.
PEPPERELL—Weston, D. E.
PITTSFIELD—Backus, W. G. Sons (Slate, Tile, Gravel & Copper), 4 Bank Row
Healey, T. J. (Gravel & Asphalt), 18 Oak
Sears Roofing Co.
PLYMOUTH—Bailey, H. P. & Bro.
Harris, C. T. & Co.
Hathaway & Sampson
PROVINCETOWN—Bangs, W. B.
Engles, Herbert
QUINCY—Bouchard, Louis
Dolan, Michael A., W. Q.
Edwards, S. H.
Mayo, Geo. A., W. Q.
Sanborn & Damon, 117 Hancock
READING—Austin, Henry K. (Metal)
Fife, T. C.
Francis Bros.
ROCKLAND—Burgess, C. W.
Littlefield, Jno. F.
ROCKPORT—Smith, L. E.
Thurston & Hale
SALEM—Dean, James F. (Asphalt, Tar, Gravel & Metal)
Eklund, Victor
Gould, Jas. N.
Harris, Oscar M. (Felt & Gravel)
Pinnock, Thos. G. (Slate & Metal)
Salem Heating & Metal Co.
Wadleigh & Morse
SAXONVILLE—Frost, David O.
SHARON—Gillespie, Jno. R.
SHELburne FALLS—Knowlton, C. L.
SOMERVILLE—Doe, R. W., 341 Medford
Durell, Julius A.
Hunt, Edgar O.
Holmes, Wm. B., 317 B'way, Winter Hill
Howe, Wm. S., 51 Union sq
McMillan, Albert F., 377 Som. av
McNee, Thos., 269 Highland av
Miers, Chas. J.
Wilson, Andrew
SOUTHAMPTON—Lyman, H. B.
SOUTHBRIDGE—Winter, Geo. C.
SOUTH FRAMINGHAM—French, M. E.
Sawyer, H. L.
SOUTH HADLEY FALLS—Moriarty Bros.
SOUTH LANCASTER—Rowell, Warren L.
SOUTH WEYMOUTH—Loud, M. R. & Co.
SPENCER—Marsh, G. H.
Pease, A. G. & Co.
SPRINGFIELD—Atwater, E. C. & Co., 21 Tay-
Beebe, N. S. & Co. lor
Bartholomew, C. A. (India Rubber), Pecon-
sic av opp South End Bridge
Brunton, Martin J. & Son (Slate & Gravel), 118 Dwight
Clark, Leonard & Son, 104 State
Clark, Simpson, 157 State
Estabrook, Geo. R., 146 State
Grant, A. & Son (Slate, Gravel, Felt & Composition), 24 Sanford
Hampden Cornice Works (Slate, Metal & Tile), 26 Taylor
Johnson, Wm. H. (Gravel), 761 Liberty
Kirkham, J. Stuart, 140 State
Lyon, A. E. (Felt & Gravel), 104 Cornell
McCarthy, Thos. H. (Slate), 53 Pendleton av
McCleary, John & Son (Slate), 196 King
McCleary, Robert, 63 Lowell
McCormick, J. F. (Slate & Gravel), 142 Es-
Pratt, H. J. & Co., 108 Dwight
Quinn, T. E., 100 Franklin
Rice, Chas. E.
Shine, Jno. I., 385 Bay
Smith & Cohen, 133 Main
Whitcomb Stove Co., 11 Dwight
STOCKBRIDGE—Van Deusen, Mrs. Jno. M.
STONEHAM—Gray, W. N. (Slate, Metal & Gravel)
STOUGHTON—Paul, Samuel, Jr.
SWAMPSCOTT—Philbrick & Pope
TAUNTON—Baker, O. P.
Baker, Timothy C., 42 Main
Black, Wm. R. (Asphalt & Gravel), 83
Crapo, H. G., Tremont & Fremont Union
Newhall, G. S., 6 Main
Whitmarsh, Irving F., 64 Welr
THORNDIKE—Bond, A. M.
TURNERS FALLS—Starbuck, George & Son
VINEYARD HAVEN—Armsby, Geo. F.
Tilton, H. L.
WALES—Fisher, A. F.
WALTHAM—Carr, Frank C.
Carr, Geo. H.
WARE—Marsh Bros.
WAREHAM—Humphrey, Albert
WARREN—Keenan, J. H.
Maxim, J. W.
WATERTOWN—Morris, Edw. O. (Slate)
Walker & Pratt Mfg. Co.
WEBSTER—Rates, A. J. & Son
WELLESLEY—Porter, F. H.

WESTBORO—Frost, Wm. B.
Woodman, G. H. & Co.
WEST DENNIS—Weyser, Chas. C.
WEST MEDFORD—Bragdon, Louis G. (Asphalt,
etc.), 83 Sharon
WEST MEDWAY—Grant, W. R.
WEST NEWTON—Carley, C. G.
Cushman, Frank V.
WEST STOCKBRIDGE—Sprague, Cyrus W.
WEYMOUTH—Bates, A. K.
WHITINSVILLE—Searles, Geo. F. & Sons
Sykes, W. T.
WHITMAN—Goodwin & Co.
WILLIAMSTOWN—Sherman, B. H.
WINCHENDON—Fisher, J. B. & Son
WINCHESTER—Pratt, Geo. E. & Co.
WINTHROP—Grimes, Michael
WORCESTER—Abramsou, John R., 126 Com-
merelal
Barnard, G. A. (Slate, Metal & Gravel), 74
Prescott
Carr, Geo. W. Co. (Gravel, Tar & Slag),
Builders' Exchange
Cooley, Hy. P., 9 Brittan
Cooney, M. D., Vernon sq
Cory, Walter S., 37 Trumbull
Hanley, Richard (Slate, Gravel & Metal).
Lamb, J. B., 13 Park 125 Summer
Lawrence, W. H. & Co.
McNally, D. E. & Co., 24 Houghton
New England Steel Roofing Co. (Steel).
Pickup, Geo. W., 10 Pleasant 274 Main
Power, Nicholas R. (Gravel & Concrete), 10
Merrifield
Power, Patrick M., Jr. (Slate), 35 Prescott
Prouty Bros., 174 Main
Robinson, M. E., 100 Exchange
Robinson, Winslow H., 3 Prescott
Tulley, M. J. & Co.

MICHIGAN.

ADRIAN—Baier, Jos. A.
Clauda & Meyer
Crittenden, Emmett P.
James, Heabler & Knight
Taylor Bros.
Vogel, Clemons
Wilcox Hdw. Co.
ALBION—Grauger, Hardware Co. (Metal &
(Comp.)
Griffiu, Geo. P. (Metal & Comp.)
Slowey, Wm. E.
ALLEGAN—Phillips Bros.
ALPENA—Beeg, Herman
ANN ARBOR—Dieterle, Ernest A.
Fischer, John C.
Muehlig & Schmid
Schlenker, C.
Schumacher Hardware Co.
BANGOR—Camp, Fitz W.
Seymour, F. S.
BATTLE CREEK—Battle Creek Furnace &
Roofing Co.
Bock, C. F. & Son (Slate & Iron), 18 Madl-
Breitenbach & Gothberg son
Brockett, L. B. & Son, 59 W Main
McConnell, E. M. (Asphalt, Gravel, Steel,
Tin), 30 N Jefferson
Shouldice Bros.
Pittman-Coates Hardware Co.
BAY CITY—Bialy Hardware & Supply Co.
Burkhardt, Frank E.
Disher, Fred H.
Grove, Wm. J.
Hart, C. M. (Slate & Gravel)
Hershey, Frank
Jennison Hardware Co.
Mann & Ackerman
Sleno, Leonard
Smith, T. E.
Tossell, J. P.
Ufer, A. H.
Wilson & Wanless
BELLEVILLE—Cady & Forbes
BENTON HARBOR—Colgrove, Wm. B.
Hall, A. T.
BERRIEN SPRINGS—Reynolds & Lemon
BIRMINGHAM—Blakeslee, J. R.
BLISSFIED—Timmins, P.
BOYNE—Reichert, J. L.
BRIGHTON—Baetche Hardware Co.
BROOKLYN—Frenche, Stuart K.
BURROAK—Hazzard, F. J.
CADILLAC—Johnson, John
CALUMET—Carlton Hdw. Co.
CARSON CITY—Hallett, John W. & Son
CASSOPOLIS—Fisher, Jno. W.
Hayden, W. B. & Son
CENTERVILLE—Pitts, L. W.
CHARLEVOIX—Bartholomew, L. D. & Co.
CHARLOTTE—Munger, J. W. & Son
CHEBOYGAN—Cueny, J. E. & Bro.
Post, J. J. Hdw. Co.

CHESANING—McKenzie, Hector F.
CLARKSTON—Smith, Oliver A.
CLINTON—Lindsley, Geo. C.
COLD WATER—Allen, D. C. & Co.
Chandler & Lee (Metal & Slate)
Kerr Bros. (Slate, Metal & Comp.)
Kilbe, Chas. E.
CROSSWELL—Heard, Harry J.
DETROIT—Ames, Louis (Metal), 270 Grand
River av
Berschbach & Herz (General), 599 Gratiot
Berling, Paul C., 344 Grand River av
Bucha, Hy., 878 Rivard
**BURTON, W. J. Co. (Asphalt, Felt,
Slate, Metal & Tin), 164 W Larned. (See
adv. index, end of book)**
Candler, J. D. & Co. (Slate, Metal, Tile &
Comp.), 177 High, E
City Cornice & Furnace Co. (General), 802
Grand River av
Clark, J. F. (Gravel, Slate & Tin), 18 Grant
Court
Cleveland Silix Stone Co. (Cement), Ham-
mond bldg
Detroit Cornice & Slate Co. (Metal, Tile &
Comp.), 145 St. Antoine
D'Hondt, Victor, 23 Maple
Eagle Cornice & Roofing Co. (General), 815
18th
Ebert Bros. (Comp. Slate & Metal), 352 5th
Gilbert, G. W. (General), 20 Gilman

GILMAN'S SNOW GUARD

100 Merrimac, Boston, Mass. (See adv.
Index, end of book)

Hartge, Jos. G., 220 Myrtle
Hartman & Scharf (General), 952 Grand
River av
Hensien Mfg. Co. (General), 136 St. Antoine
Hines, H. C. & Co. (Felt & ravel), 354
Humboldt av
Howie Roofing Co. (Slate, Tile, Gravel
Asphalt, Comp., Metal, etc.), 370 4th av
Hutchins Car Roofing Co. (Car), Toledo &
Livernois avs
Hutton, Robt. & Co. (General), 112 Fort, E
Johnson, John & Co. (Magnesia Flexible Ce-
ment), 368 Gratiot av
Karp Bros., 58 Pulford av
Klein, Chas., 312 Woodward av
Lewis, Henry B. (Slate, Tin & Iron), 45 Jos.
Campau av
Lupton's, David Sons Co. (Slate, Tile &
Metal), 1315 3d av
Orth, Adam J. (Slate & Metal), 166 Hastings
Peabody & Co. (General), 969 17th
Pudrith & Candler (Slate, Tile, Metal &
Comp.), 74 Brush
Schillinger Bros. (Asphalt & Gravel), Illi-
nois & Degmdre
Stevens, F. B. (Tile), 3d av & Larned
Union Sheet Metal Works (Iron), 831 Riopelle
Voight & Sexauer, 146 Sherman
HOWAGIAC—Bishop Geo. E. Hardware Co.
Schmitt Bros.
DURAND—Karrer, Frank & Son
ESCANABA—Delta Hdw. Co.
FENTON—Curry, L. V.
Hoffman, F. J.
FLAT ROCK—Longprey, L. T.
FLINT—Algoe & Miller
Foote, C. E. (Metal)
Hubbard, Geo. W. & Son
Sager, Wm. N.
RAND HAVEN—Hartel, August
Johnson, H. W.
Pfaff, Fred. & Co.
FOWLER—Brunn, Chas. B.
FRANKENMUTH—Link, Chas. F.
FREMONT—Raider, J. F. A. & Son
GRAND RAPIDS—Brown, J. W., 895 S East
Buob, Wm.
Denison & Dykema, 666 Wealthy av
Elkenhout, Hy. & Son, 525 Chestnut
Mathews, Geo., 986 Hall
Grand Rapids Sheet Metal & Roofing Co.,
Louis c Campau
Hopson, W. C. & Co., 25 Campau
Kroeze, Peter, 10 Huron
Sokup, F. J. (Slate, Metal & Gravel).
Front, opp Pearl St Bridge
Studley & Barclay, 66 Pearl
Van Arsten, J.
Van der Broek & Riddering, 380 Plainfield
av
Weatherly & Pulte (Slate & Metal), 97 Pearl
Welfare & Stephenson
REENVILLE—Fowler, W. J. & Co Pearl
Oekerman, Wm. M.
Stevens, Geo. W. & Son (Tin & Iron)
IAMBURG—Cunningham, Jas. S.
IANCOCK—Kerredge, Wm.
Kerredge, Wm.

HASTINGS—Brooks, Frank
Goodyear Bros.
Weissert Bros.
HILLSDALE—Gardner, Geo. F.
Hillsdale Hdw. Co.
Wagor & Son
HOLLAND—Beeukes, Jno.
HOUGHTON—McDougall, Alex., Sr.
Portage Lake Hdw. Co. (Comp., Gravel &
Metal)
Stoyle, Fred
HOWARD CITY—Larry, Chas. & Son
HOWELL—Benedict & Ratz (Slate)
Naylor, Wm. H.
Sebroeder, Fred. P.
HUDSON—Armstrong & Munger
IDA—Braunlich, A. H.
IONIA—Fedewa & Schaefer
Webber, H. B. & Co.
IRON MOUNTAIN—Corning & Barron
Mitchell, W. H. Hardware Co.
Rundle, A. J.
JACKSON—Barkalow, Silas
Barrett & Daly (Slate & Metal), 114 Cooper
Copey, Chas. H.
Cowherd & Lectka
Drake & Robson
Dunlap, Wm. H.
Loeser & Lehr, 110 E Main
McGraw & Crone (Slate & Metal), 214 E
Main
McLean, F. & Co. (Slate & Tin), 162 W
Mount, Geo. E. Main
Oleslager, Jno. B., 510 E Main
KALAMAZOO—Boerman, John P.
Chatfield, Cornelius V.
Edwards & Chamberlin Hardware Co.
Kalamazoo Cornice Works (Slate, Iron, Tin
& Gravel)
Lakey, A. L. Co. (Slate, Metal & Gravel),
Larned & Shandrew 226 N Burdick
Metzger & Meulenber
Michigan Metal Cornice & Roofing Wks
Van Male, John
KEELER—Flaherty, A. F.
LAKE ODESSA—Tolles, Howard E.
LANSING—Dunham Hardware Co.
Fleming, J. (Slate & Metal), 309 Wash av,
Goodrich, E. W. So.
McKale, Wm. H.
Mudford, Wm.
Norton, Chas. M. (Comp. & Metal), 111
Rouse, Chas. W. Washington, S
LAPEER—Gray, Sidney T.
LESLIE—Harris Bros.
LOWELL—Littlefield, S. O.
McDeld, S. H.
LUDINGTON—Boerner, Chas. (Felt & Gravel)
LYONS—Hatch & Baker
MANCHESTER—Kuebler, Louis A.
MANISTEE—Miller, Wm.
MANTON—Meyer Hardware Co.
MARINE CITY—De Lisle, Frank
Scott Bros.
Zimmerman Bros.
MARQUETTE—Clark, Daniel M.
Manhard, M. R.
Neidhart, B. & Co.
MARSHALL—Nagle, Julius
Osborne, Daniel
Treadwell, J. W.
Van Arman & Weaver
MECOSTA—Henry, B. S.
MEMPHIS—Wade, Jno. C.
MENOMINEE—Bertholdt, Herman C.
Northern Hardware & Supply Co.
MIDLAND—Reardon Bros. Merc. Co. (Tin &
Metal)
MILFORD—Hatch, F. B.
MONRENCI—Gust, G. W.
MONROE—Steiner, Wm.
MOUNT CLEMENS—Ferrin, Chas. S.
Ullrich, R. C.
Widrig, Rosell
MUNISING—Thoenen, R. H.
MUNITH—Harris, Arthur M.
MUSKEGON—Herrendeen, H. H. & Co.
Smith & Asmussen
NASHVILLE—Glasgow, C. L. (Steel)
NEGAUNEE—Farson, S. A.
NEW BALTIMORE—Langell, Frank M.
NORTH BRANCH—Orr, Daniel
NORTHVILLE—Carpenter & Huff
OWOSSO—Curry, Ira G.
Hadsall, H. H.
Post & Son
Thompson, J. (Est. of)
Van Kammen & Beckman
PAW PAW—Norwood, C. A.
Waters, H. C. & Co.
PETERSBURG—Kohler, Fred.
PETOSKEY—Brackett Hardware Co.
Bump & McCabe
Raynolds, Chas. A.

PLYMOUTH—Connor Hardware Co.
Huston & Co.
PONTIAC—Gable, Leonard
Hallett, E. J.
Rich, A. C.
PORT HOPE—Weatherhead, M. P.
PORT HURON—Bolligar, Jas.
Boyce Hardware Co.
Busby, Chas. E.
Casler, Courad C.
Dart, J. A.
Home Mfg. Co.
Sturmer, Chas. A.
PORTLAND—Ferguson, R. L.
QUINCY—Bishop, I. L.
Cole & Barringer
RANSOM—Thompson, O. W.
ROCHESTER—Tienken & Case
ROMEO—Engel, Fred'k
McDowell, Wm. C.
Moreland, H. H.
ROMULUS—McBride, W. S.
ROSCOMMON—Orcutt, Wm. B.
SAGINAW—Asphalt Roofing Co., 1424 S Ham-
Bauer & Schnug iltion
Beer, J. G., 1223 Court
Ferguson, John S.
Foale, Edw. H. (Gravel & Comp.), 409 Mil-
Gemmill, Wm. & Son, 502 Potter lard
Jacobi, Alex. A. N. (Slate & Metal), 113 N
Warren a.
Krogman, H. G., 212 N Hamilton
Leyerer, J. S., 408 Germania av
Martin, B. & Son, 816 Jane, E S
Paxson & Schoenberg (Tiu & Steel), 213
N Hamilton
Saginaw Sheet Metal Works (Slate, Tile &
Saunders, Chas. Metal)
Schaberg, C. F., 306 Lapeer av
Taub, Herman L., 1153 Genessee av
Valley Cornice & Slate Co. (Slate, Steel &
Tin), 300 N Hamilton
Weiland, Albert P., 731 Hoyt av
Winterstein, O. A. F.
ST. JOHNS—Fowler & Ball
Shanahan, John
Spaulding & Co.
ST. JOSEPH—Moulton, Chas. H.
ST. LOUIS—Humphrey, F. N.
SAUGATUCK—Konlmg, Jno.
Schnobel, H.
SAULT STE MARIE—Soo Hardware Co.
SCOTTVILLE—Tift, Wm.
SEBEWAING—Muellerweiss, Adolph
SHELBY—McKinnon, A. R.
Rankin, A. J.
Sargent, M. J.
SHEPHERD—Worthington, F. A.
SPARTA—Loops, Jas.
STANTON—Segar, Edwln L.
STURGIS—Feek, H. H.
TECUMSEH—Satterthwaite Bros.
Whitenack, D. L. & Co.
THREE RIVERS—Griffith, Jno. (Slate & Metal)
Reed, T. J.
TRAVERSE CITY—Arms & Cole
TRENTON—Campbell, Loren
UBLY—Wilkinson, Harry J.
UNION CITY—Walker, C. S.
VASSAR—Brett, C. N.
Dean, H. C.
Sandford, R. M.
VERMONTVILLE—Bailey, F. J.
WALDRON—Gish, O. M. (Asbestos, Gravel &
Wayne—Cozadd, J. C. Metal)
WOODMERE—Mason, Richard
WYANDOTTE—Gartner Hardware Co.
Karth, Frank A.
YPSILANTI—Carpenter, F. I.
Nackel, A. G.
Whitford, T. S. & Co.

MINNESOTA.

ADRIAN—Prediaux, W. H. & Son
Sands, C. A.
AITKIN—Schadegg, Fred. G.
ALBERT LEA—Gulbrandson Hardware Co.
ALEXANDRIA—Olson, Frank C.
AUSTIN—Decker Bros.
Revord & Holmes
BARNESVILLE—Bauer, Chas., Jr.
BEMIDJI—Doran Bros.
BIRD ISLAND—Kromer & Hurley
BLOOMING PRAIRIE—Morton, E.
BLUE EARTH—Maas, A. G.
Maxson Hardware Co.
Rabe, Chas.
BUFFALO—Osterman, Jno.
CASS LAKE—Schwenk, Chas. & Son
CHATFIELD—Heyden, H. H.
CLOQUET—Fish, L. A. & Co.
Lolsel, Jos.

CROOKSTON—O'Brien, J. E. & Co. (Asbestos)
DULUTH—Brown, E. M.
Burrell & Harmon (Slate & Meatl), 308 E
Deutz & Co., 406 E Superior Superior
Duluth Corrugating & Roofing Co. (Iron,
Pitch & Gravel)
Helbing, L. R., 322 E Superior
Hollihan & Milostan, 207 W 1st
FARIBAULT—Cavanaugh, Geo. W.
FERGUS FALLS—Bauer, Joseph
Frankoviz Hardware Co.
GIBSON—Isakson, Louis
GLENWOOD—Rowe, David W.
HARMONY—Kidder, E. F.
HENDERSON—Ritter, Anthony
HOPKINS—Kocourek & Breen
KENYON—Torublad, Jno.
LITCHFIELD—McNulty & Co.
MADELIA—Cole, W. W.
MANKATO—Hennessey, Jno.
Lewis, John A. & Son
Lulsdorf, G. & Son
Neubel, F. H.
MINNEAPOLIS—Allan, D. M., 311 6th av, S
Barette & Co., 10 E 26th
Berg, E. B., 15 S E Main
Bergman & Co., 726 S 4th
Boehme, G., Jr., 1019 N E Main
Boehme & Kennedy, 1019 N E Main
Bixby, James W., 1244 6th av, N
Crittenden Roofing & Mfg. Co. (Slate, Met-
al, Tile, Asphalt, etc.), 704 S 5th
Drury, C. F., 1210 3d av, S
Gardner, W. L., 6 E Lake
Gerber, J. J., 128 6th av. S

GILMAN SNOW GUARD

103 Merrimac, Boston, Mass. (see adv.
index, end of book)

Goetzenberger, E., 504 W Lake
Great Wester Stove Repair Co., 312 Henne-
Hase & Dake, 2526 Central av pin av
Heath-Quimby Co., 1 N 1st
Henning Mfg. Co., 310 Plymouth av
Henseler & Naused, 1324 Marshall
Houston, M., 244 2d av, S
Jones & Sawyer, 3005 Hennepin av
Kaplan, Max, 709 N 5th
Keller, L. J., 617 1st av, S
Kinne Mfg. Co., 1124 S 3d
Knights, W. R., 814 W 34th
Krenzke, T. A., 26 W Lake
La Duke, H. A., 409 E Lake
Lucas Bros., 424 Hennepin av
Middlemist & Sons, 9 N 2d
Minneapolis Roofing & Cornice Works, 403
6th av. S
Moorhouse, J. F., 2941 Lyndale av, S
Morison, W. K. & Co., 247 Nicollet av
Nees, Louis & Co. (Slate, Metal, Gravel,
etc.), 1207 S 3d
Northwestern Roofing & Cornice Works
(Slate, Metal, Pitch & Gravel)
Nott, W. S. Co. (Comp.), 200 1st av, S
Porter, J. H., 1706 Franklin av, E
Roberts, H. O., 103 Western av
Saucier, Chas., 2008 Lyndale av, N
Selden Roofing & Mfg. Co., Western av c
Shotwell, H. J., 103 S 6th 11th
Stowers Bros., 1420 Washington av, S
Stremel Bros. Roofing & Cornice Co. (Slate,
Felt & General), 1215 Wash' av, N
Thompson & Wilson (Gravel), 516 Central av
Townsend, A. W., 20 S 2d
Tunstead Heating Co., 223 S 6th
Wishart, R. S., 424 S 6th
Yerk, Fred. J., 4 S E 5th
MONTEVIDEO—Jensvold, F. N.
MOOREHEAD—Levitte, Jno. J.
MORA—Engstrand, Aug.
McIlhargy, S. D.
NEW ULM—Gag & Ranweller
Laudenschlager, Mrs. H. (Est. of)
Roloff, Charles
NORTHFIELD—Biermann Bros.
Boe, H. A.
OWATONNA—Butsch, C.
Thon, John
Thompson & Roell Hardware Co.
PARK RAPIDS—Breher, Jos.
Tennis, S. C.
PELICAN RAPIDS—Berg, Lara L.
PRINCETON—Grant, B. D.
RED WING—Gates, G. E.
REDWOOD FALLS—Laird, D. E.
Pease, E. A.
ROCHESTER—Stebbins & Co.
RUSHFORD—Grleser, Chas.
ST. CLOUD—Lougley, Lewis
Thielman Bros.
ST. PAUL—Ackerman, Wm., 561 B'way
Adams, E. J., 374 Jackson
Armbruster, E. A., 40 W 4th

Atwater, J., 2378 Hampden av
Bergstrom, Mrs. A. (Carl), 623 E Minnehaha
Decker, A. Hardware Co., 347 Jackson
Franz, H. A., 869 Randolph
Franz, L. & Son, 554 Lucola
Griffen & Boehme, 121 W University
Haag, George, 355 W 7th
Haag-Laubach Roofing & Cornice Co., 28
Hass & Anderson, 131 S Wabasha W 3d
Haase, C. A., 744 Grand av
Harms, W. J. F., 2378 Hampden av
Harms, W. J. F., 2378 Hampden av
Heinl, John, 918 W 7th
Hinderer, Edward, 195 W 6th
Janitschke Bros., 751 N Snelling av
Justus, P. C., 314 Rice
Lefebvre-Deslauriers Roofing & Cornice Co.
(Slate, Tile, Asphalt, etc.), 26 8th
Marzolf, A. & Co., 117 W 6th
Minnesota Roofing & Cornice Works, 135
Moshofsky, Frank, 379 Rice 12th
Muggley & Tschida, 195 W 3d
Northwestern Lime Co., 68 Lower Levee
Ostrander, Alex., 174 N St. Adams
Peyer, E. J., 543 Rice
Phillippi, Michael, 965 Rice
Phillippe, Michael, 928 Rice
Prendergast Bros., 20 E 6th
Rossberg, C. E., 148 N Dale
St. Paul Roofing, Cornice & Ornament Co.
(Slate, Mantel & Tile), Water c Wabasha
Schieck Bros., 991 W 7th
Schleh, A. G., 91 Concord
Schletz, R. H., 674 Winslow av
Schneider & Luckert, 228 W 3d
Schroeder, Bros., 902 Payne av
Scribner-Libbey Co. (Comp. Slate & Metal),
Stallman, E., 407 Rosabel
Stuhlman, J. C., 429 S Wabasha
Ulvin, M. H., 986 Payne av
Union Roofing & Mfg. Co., 1127 E 7th
Wenzel, Robert, 661 Kent.
Wollerstorff-Haskell Range & Furnace Co.,
ST. PETER—Feldman, Charles H. 186 E 6th
Krohn, Alfred
SAUK CENTER—Hillerud, G. & Co.
SHAKOPEE—Mergens, Henry
STILLWATER—Evans, W. T.
Loeber, August
Strudwick, J. F.
THIEF RIVER FALLS—Jackson, C. C. & Co.
Oen & Granum
TWO HARBORS—Schreiner Bros. & Moulton
WABASHA—Schmidt, Julius
WARREN—Taralseth, K. J. & Co.
WILLMAR—Lewis Hardware Co.
WINONA—Bauerlein, C. A. Hardware Co.,
Behrens, H. & Co., 58 W 3d
Magnus & Wilkens, 119 E 2d

MISSISSIPPI.

ABERDEEN—Laun & Carter Hdw. Co.
Henderson Hdw. Co.
Miller, J. A.
Warburton, T. R.
BAY ST. LOUIS—Gallup, W. J.
COLUMBUS—Newby Bros.
CORINTH—Byrnes, M.
JACKSON—Braddock, L. J.
Daley, C. E.
Gaston, H. D.
Gudice & Wright
Key-Price Hardware Co.
McClelland, Thomas Hardware Co.
MERIDIAN—McMillan, A.
McMillan, A.
Melton Hardware Co.
Switzer, J. W. & Son
NATCHEZ—Benedick & Runner
Boyle, B.
Freck, T. J.
Mack & Holmes (Comp.)
Mulvihill, P. W. (Metal & Slate)
Schwartz & Stewart
VICKSBURG—Bruser, Wm. H. (Slate, Metal,
Comp. & Gravel)
Smith, J. B. (Slate, Comp. & Metal)
WEST POINT—Foster & Co.
Quinn, H. L. & Co.
YAZOO CITY—Cummings, M. F. (Slate & Tin)
Jenne, George

MISSOURI.

AURORA—Aurora Hardware Co.
Burney Bros.
BERGER—Freese, A. W.
BETHANY—Bethauy Hardware Co.
Cole, W. C.
BETHEL—Bower, W. C.
BILLINGS—Diehl, L., Sr.
BLACKWATER—Fisher & Sauter

BOONVILLE—Hiringer, Frank H.
Kuehner, L. C. (Slate & Metal)
Vanatta & Beehtold
BOWLING GREEN—Campbell Bros.
BRAYMER—Divebiss & Toland
BROOKFIELD—Brown, George
Harris & Faut
Post, M. C.
Turner, H. F.
BUCKLIN—Hausmann, T. A.
Murphy, Hy.
BURLINGTON JUNCTION—Corken Bros.
BUTLER—Bennett, Wheeler Mer. Co.
Ray, Hayden
Ray, John
CAMDEN—Burnett, Clarbourne
CANTON—Goodrich, E. J.
Martin, Bros.
CAPE GIRARDEAU—Brunkhorst, A. F.
Leher, H. A.
Vogel, W. H.
Vogt, F. W.
CARROLLTON—Bowers & Crouch
CARTERSVILLE—Wood, Chas. E.
CARTHAGE—Drake Hardware Co.
Kiem & McMillan Hardware Co.
Stephens, Frank
Stevens & Son
CARUTHERSVILLE—Caruthersville Hdw. Co.
Seat, Jno. G. & Son
CENTRAL—Fuhrmann, J.
CHILLICOTHE—Batta, Joseph
Markey, James A.
Palmer, S. & Son
CLARENCE—Lagenboek, A. (Est. of)
CLARKSVILLE—Kissinger, J. H.
CLINTON—Baum, Hy.
Blakemore, Jas. N.
Haysler Hdw. Co.
Sherpy & Stone
Thomas & Foster
CLYDE—Kaiser, Casper
COLUMBIA—Gribble, H. J. & C. E.
Matthews, Charles
Hornberger, W. W.
Jones, R. P. & Son
Newman, C. C. & Co.
CORDER—Kleinschmidt, H. F.
DEEPWATER—McCown Bros.
DE SOTO—Berg, Fred.
Berg, Peter
Cunningham-Hamel Mercantile Co. (Gravel.
McLane, D. D. Tln, Comp., etc.)
Slawson & Kingston (Gravel, Tln, Comp.,
DEXTER—Miller, Ulen & Carter etc.)
DIXON—Dixon Hardware Co.
DONIPHAN—Ray, W. R., Jr.
DOWNING—Bailey, C. M.
EDINA—Frobes Bros.
Mudd & Gibbons
ELDORADO SPRINGS—Babler, H. J., Sr.
Smith, B. W.
EVERTON—Goforth & Allen
EXCELSIOR SPRINGS—Ley Bros.
Westbrook, E.
FARMINGTON—Boswell & Helber
FAYETTE—Bell Bros.
Kelly, D. P.
FLORISANT—Albers, Aug. O.
Humbach, Peter L.
Kienstra, Anthony
FRANKFORD—Bueks, Jno. K.
FROINA—Seibel, E. & Son
FULTON—Callaway Hdw. Co. (Slate & Metal)
GALLATIN—Lawrence Hardware & Implement
GALT—Proctor Bros. Co.
GLASGOW—Blocher & Huber
GLENWOOD—Chattin, Wm. & Bro.
Smith, Celeste
GRANBY—Mitchell & Scholes
GREENFIELD—Helpenstein, Amos
HAMILTON—Barker, F.
Martin, F. A.
HANNIBAL—Busby & Baskett
De Laporte, J. A.
Farmer, J. O., N. N. Main
Hynes, J. E.
Kanstner, Wm.
Kaup, Wm.
Peek, E. J.
Sheh, Morris
HARRISONVILLE—Deacon Hardware & Mer-
Parsons, J. C. & Bro. cantile Co.
Stair, B. A.
HERMANN—Dietzel, A. W.
Eberlin, Chris. & Son
HOLDEN—Tevis, J. H.
HUMPHREYS—Whaley & Son
HUNTSVILLE—Cahoun, V. B.
INDEPENDENCE—Casper, Martin
Hill & Martin (Slate & Metal)
JACKSON—Jaeger, Adolph
Wolters, R. S.
JASPER—Bayne & Son

JEFFERSON CITY—Natsch, Anton
Schleer Bros.
Stalhr, M. M.
JOPLIN—Harvey, A.
Joplin Cornice Works
Morgan, W. E. Roofing & Mfg. Co. (Gravel,
KAHOKA—Moore, D. G. Comp., etc.)
KANSAS CITY—Bennett, J. H., 1206 E 24th
Blake, C. E., 210 W Port av
Brink, J. H., 1915 Grand av
Carey, Philip Mfg. Co., 526 Delaware
Conkey Roofing Co. (Gravel), 1314 E 18th
Cubine Bros., 3031 S W boul
Decker, M. L., 2001 Indiana av
De Fore, S. C., 2547 Prospect
Dietrich, Peter, 706 W 14th
Dietzel, F. H., 2117 E 15th
Ellis, Herbert, 816 S W bvd
Geis Sheet Metal Works, 24th S W c Belle-
Gille Mfg. Co., 1053 St. Louis av view
Gordon, H. & Co., 1713 Grand av
Gray, F. I., 1530 Grand av
Heckard, W. S., New Ridge bldg
Humbroek & Thume
Jakobe, J. G., 1318 Main
Johns, H. W. Manville Co., 1410 Main
Kansas City Asbestos & Roofing Co., 111 S
W Boulevard
Kansas City Furnace Co., 618 Prospect
Kansas City Roofing & Corrugating Co., 218
W 3d
Kansas City Slate & Tile Roofing Co., 21st
& Forrest
Kansas City Standard Roofing Co., 2118
Kimmel, J. C., 3310 E 15th Grand av
Kinney Hardware & Mfg. Co., 2537 Prospect
Kirby, Scott, 709 E 31st
Kornbrodt, Chas. T. (Slate, Tile, Metal &
Asbestos), 400 W 6th
McNeese, W. T., 2418 E 18th
Maiken & Sons, 2508 E 31st
Martz & Roebber, 1315 Main
Nail, J. C., 1421 E 18th
Payne & Allen, 2606 E 18th
Redheffer Co., 544 Main
Reed, H. M., 1422 Walnut
Ritzler, J. A. Cornice & Ornament Co.
(Slate & Metal), 600 W 5th
Sellers & Marquis Roofing Co., 105 W 8th
Seymour & Kiff, 208 E 16th
Sick, W. F., 2719 E 15th
Silverstein, B., 1223 Inde av
Stoeltzing Stove & Hardware Co., 1329
Grand av
Stoeltzing, Martin, 1605 Grand av
Stoplet, F. C., 12 E Missouri av
Vance, R. W. Sheet Metal Works, 1520
Vanstone, Walter 1710 Walnut Walnut
Walter, G. E., 522 Grand av
Weis, Henry Cornice Co. (Iron, Slate &
Tile), 1811 Wyandotte
Western Roofing Co. (Comp. & Gravel), 17
W Missouri av
Wood Bros., 301 Missouri av
Zahner Mfg. Co.
KENNETT—Riggs Bros.
KEYTESVILLE—Vaughan, W. D.
KIRKSVILLE—Clark, R. Hdw. Co.
Helme Hdw. Co.
KIRKWOOD—Cronin, M. W.
Daly, W. M.
Donworth & Kelly
LA GRANGE—Oyster, W. E.
Wright, W. J.
Wright & Frowein
LAMAR—Adams Hdw. & Furniture Co.
Barth, A. H.
Humphrey & Bro.
LANCASTER—Freidrich, C. C.
LA PLATA—Fulmer & Gilbreth
LEBANON—Bantley Bros.
Campbell, G. A.
Hartmiller & Son
Koby, Victor
LEWISTOWN—Thale, Aug.
LEXINGTON—Kling & Marrs
Yingling, C. E.
LIBERTY—Harlin, John W.
Poage, Cyrus B.
LINNEUS—Fetty, E. G. & Son
LOCKWOOD—Wookman Bros.
LOUISIANA—Hilliard, J. H.
Rose, C. B.
Suda Hdw. Co.
LURAY—Combs & Webb
MACON—Demeter, E. A.
Jaeger, Joseph
Mayer, Frank Hardware Co.
Patton, B. P.
Walker, W. P., Sr.
MARSHALL—Johnston, O. W.
Page, E. R. (Slate & Gravel)
MEADVILLE—Abell & Loomis
MEMPHIS—Courtney, J. C.
Monnt, J. E.

MEXICO—Burke, W. G.
Ferris, G. L.
Garrett & Bedbury
MILAN—Lane & Evans
Turner & Winters
MOBERLY—Kanstner, Mrs. A.
Nise, P. H.
Stauffer, P. & Co.
MONETT—Floeth, W. H.
MONROE CITY—Jaeger, Alfred
NAPOLEON—Gaeth, Carl
NEOSHO—Briggs-Centres Hardware Co.
NEVADA—Eppenauer, Jos. P.
Missouri Sheet Metal Works (Slate & Metal)
NEW CAMBRIA—Nichols & Goodson
NEWTOWN—Koup, A. A.
NORBORNE—Baekstoe, R. W.
OLEAN—Inglish, F. W. & Co.
ORONOGO—Stults, R.
PALMYRA—Best Bros. Hardware Co.
PARIS—Crawford Bros.
PERRY—Barr & McElroy
Coll & Fairbairn
Stehle & Son Stove Co.
PLEASANT HILL—Brewster, F. W.
Hon, W. W.
Pearce, W. E.
PRINCETON—Bowsher, H. C.
Safarik, J. F. J.
QUEEN CITY—Casper, Jos. T.
RICHMOND—Percival, J. H.
Shoop, W. T.
ST. CHARLES—Ebeling, Louis
Heye, Thos.
Nolle, Louis
Pallardy, L. L. & Co.
Paul, C. J.
ST. JAMES—Burge, J. F.
ST. JOSEPH—Barnard, Wm., 919 S 16th
Carolus, Geo. A., 1703 Frederick av
Cramer & Gelwitz, King Hill & Colo av
De Vorss, Angus F., 630 S 8th
Gehrs, Herman J., 1019 S 8th
Gernandt-Maer Mer. Co., 510 Edmond
Jesberg, Wm. H., 1212 N 3d
Langan, Peter, 305 S 4th
Miller, Chas., 621 Messane
Parrish-Erickson Hdw. Co., 115 S 6th
Rich & Hellman
Robertson, Wm. J. (Gravel), 922 S 6th
Schwien, Aug. Stove Co., 419 Edmond
Seaman & Schuske (Slate, Tile, Metal &
Asphalt), 1604 Frederlek
Wehrman, Wm. (Slate & Metal), 119 N 2d
Welbers, W. J., 1106 Faraon
Whelan, Alex. T. (Slate & Metal), 1001 S
10th
Williamson, Wm. C., 202 Highland av
ST. LOUIS—Ahrens, Fred'k, 7120 S B'way
American Can Co., n w e Hall & Branch
American Slate & Tile Roofing Co., 816
Amrhein, Jacob, 1410 S 18th Olive
Asbestos Mfg. & Roofing Co. (Asbestos), 2d
Bence, Pophse, 2005 Cass av
Bender, Nicholas A., 3214 Franklin av
Bennett, Geo. W., 3850a Cote Brillante av
Berwanger, Louis, 2503 S Jefferson av
Bokern, Jos., 217 Market
Bonecum, John E., 218 Clark av
Rowman Stamping Co., Main, S W c Cedar
Brinkmann, John H., 1913 Olive
Burke, Jas. H., 822 N 21st
Buss, Albert, 1426 Wright
Campe, Wm. J., 1921 Frankli nav
Carey, Phillip Mfg. Co. (Comp.), 910 N 2d
Columbia Can Co., 2d & Madison
Condon Bros., 1026 Market
Cullen, Joseph, 4012 Fairfax av
Decker, E. G., 3330 S B'way
Daniels Roofing & Supply Co., 206 Walnut
Davis, Wm. R., 718 N Vandeventer av
Doekery, Jas. J., 3513 Page boul
Doerste, Hy., 2312 Shenandoah av
Dolson, Chas. L., 1102 N 6th
Dolton, Geo. E., 24 S Commercial
Eberle, J. & Son, 4014 Leclde av
Ehert, Robt., 1008 N 6th
Ehret-Warren Roofing Co. (Gravel, Felt &
Asphalt), Fullerton bldg
Ellman, Louis, 1008 N 7th
Ender, Ignatz, 3931 Oregon av
Epeneter Bros., 4722 Delmar boul
Excelsior Car Roof Co. (Comp.), 721 Olive
Excelsior Roofing Co. (Felt, Comp. &
Gravel), 1309 N Grand av
Fair Roofing Co. (Gravel), 204 S 12th
Finger, Geo. & Co., 2008 Russell av
Fisler, Gottlieb, 2206 S 3d
Flynn, John A., 813 Walnut
Foy, Matthew H., 1838 Park av
Franz, Lorenz, 6725 S B'way
Frick, Jos. D., 2614 Montgomery
Funke, Bernard J., 1917 College av
Geroek Bros. Mfg. Co., 1252 Old Manches-
ter rd

GILMAN'S NOW GUARD

103 Merrimac, Boston, Mass. (See adv. index, end of book)

Gilsonite Roofing & Paving Co. (Tile & Comp.), 211 N 7th
Gmelner, Mathias, 1448 S 3d
Godfrey, W. E., 8039 N B'way
Govro, Adolph, 1012 N Sarah
Grevels, Edmund, 4520 Easton av
Gruendorf, John W., 1600 Blair av
Hahne, Wm., 2231 Gravois av
Halpin, James Mfg. Co., 1513 Chestnut
Hammermeister, Otto A. (Gravel, etc.), 3322 Lemp av
Hanuan-Getz Mfg. Co., 218 Clark av
Hay, Edw'd T., 2120 Clark av
Hayden Slate Co. (Slate & Tile), 2006 Lo-Heageu, P. (Comp.), 1530 Morgan
Heagen, Thos. A. Roofing Co., 1013 Pine
Heagen, Thomas A. Roofing Co., 1532 Morgan
Hemp & Co., 904 S 2d
Hennerich, P. J., 3306 Salena
Hensieu, John, 518 N Sarah
Herman, Abraham, 4618 Delmar boul
Higgins, Frank B., 711 St. Charles
Higgins, John F. & Co., 5619 Easton av
Hiller, Charles, 4579 Easton av
Hoell, A. H., 2809 Geyer
Hubenschmidt, Albert, 2021 Franklin av
Huber, Pius & Son, 2520 Newhouse av
Huhn, Edw., 508 S 4th
Hummert, Wm., 1131 N B'way
Humpert, John C. & Son, 2524 Salisbury
Hunstein, Conrad, 2306 N 15th
Hurt, W. H. Mfg. Co., 1222 Pine
Jarolimek, F. J., 1869 S 12th
Johns, H. W.-Manville Co. (Asbestos, Comp., etc.), 914 N B'way
Jordan, Adolph, 1848 Cass av
Jordan, Wm. M., 1123 Market
Kadell, Chas. W., 2729 Lafayette av
Kaul, Frank, 3022 Oregon av
Kelly, Francis R., 4583 Easton av
Keru Bros., 716 N King's Highway boul
Kestrauek, Jos., 2907 McNair av
Kihlnein, Henry, 1428A Old Manchester rd
Kleinhenn, Henry, 2637 Chouteau av
Klittich, Ernst L., 707 Carroll
Knox, Thos. E. & Co., 4608 Easton av
Koch, Moritz, 2812 Manchester av
Koelsch, Wm., 1124 Buchauau
Krauss, Anthony, 4260 Easton av
Lampert Bros. Mfg. Co., 3257 N 19th
Larkin, Michael P., 1904 St. Charles
Latal, Jno. J. Roofing Co. (Gravel, Slate & Comp.), 1518 N 10th
Liutzenleh, Jacob E., 721 Olive
Lloyd, Geo. E. (Slate, etc.), 1210 Dolman
Loser, Otto, 4257 Fairfax av
Lucas, Philip G., 2726 Gravois av
Luepker, Nicholas, 4217 Virginia av
Lynch, Cornelius, 2831 Morgan
McCracken, C. E., 4250 Hartford
McEwen, J. R. & Sons, 3829 N 20th
McHenry, Thos., 4001 Easton av
Mager, Philip G., 810 S 4th
May, John, 2833 Chouteau av
Mende, Aug., 2822a Victor
Merkel, Herman, 509 Elm
Missouri Can Co., n w c Hall & Branch
Missouri Gravel Roofing Co. (Gravel & comp.), 2229 Chouteau av
Moll Bros. (Gravel, Felt & Comp.), 1019
Mueller, Adolph, 911 N 9th
Munkliff, Patk. R., 4975 Easton av
Murphy, P. H., 420 Olive
Nash, M. J., 2105 Franklin av
Naughton, P. S. Slate Roofing Co. (Slate, etc.), 3620 Laclede av
Nischwitz, Fredk. G., 312 Miller
Orden, Jos. R., 1100 Ohio av
O'Toole, Edw'd F., 7935 N B'way
Palubiak, John, 4044 Phillips av
Peter, Fredk. A., 2827 N 9th
Peters, Jas. K., 3023 Olive
Pinkus, Morris, 1309 S B'way
Powers & Boyd Roofing & Cornice Co. (Slate & Metal), 3614 Laclede av
Reardon & Co., 1317 N B'way
Riddle, Geo. A. & Co. (Slate, etc.), Odd Fellows bldg
Rimmelin, Richard, 1120 N B'way
Root, W. L., 1905 S Jefferson av
Sadler, S. E., 1403 Chestnut
St. Clair Roofing Co. (Comp. & Gravel), 921 Chestnut
St. Louis Roofing Co. (Felt, Comp. & Gravel), Wainwright bldg
Sandmann, Theodore, 313 Rutger
Schaperkoetter, Gustav, 2222 Malden la
Schoening, Frederick, 6 S Jefferson av

Schmidt, Otto, 821 Market
Schneider, Chas., 3170 Iowa av
Schumann Bros., 1522 S 7th
Seltzer, Henry Mfg. Co., 709 Wash'n
Sidler, B. & Co., 1823 N Taylor av
South St. Louis Cornice Works, 3932 Iowa
Spellmeyer, Otto, 2519 S 2d
Standard Roofing Co. (Comp.), 1109 Chestnut
Steue, Jos., 1449 Gratiot
Stirrat, James, 4240 Olive
Stupp Bros. Bridge & Iron Co., Weber rd & Mo. Pac. Ry.
Suda, Louis M., 1551 S Jefferson av
Syhertz, Frank, 507 Clark av
Sydow, Herman, 6333 S B'way
Sydow, John, 7828 S B'way
Tlernau, Luke, 1019 Chestnut
Tipton & Mackey, 4948 Easton av
Trinidad Asphalt Mfg. Co. (Asphalt, Comp., etc.), 320 S 21st
Uhrig & Jenne Tinware & Roofing Co., 219 S 14th
Vantilburg, Geo. H., 1512 Park av
Villiger, John, 3405 Indiana av
Vogler, A. Sheet Metal Mfg. Co., 24 S Main
Von der Au & Cluss Mfg. Co., 3404 S Jefferson
Western Mfg. Co., 4333 Warne av
West St. Louis Slate & Tile Roofing Co., 4338 Chouteau av
Wiegrefe & Heintz, 2715 N 14th
Williams Roofing Co. (Slate), 4331 McRee av
Wilson, Fredk., 1643 S Jefferson av
Wunderlich, George, 1410a Salishury
Wolf, Albert, 705 S 4th
Yehliug, Louis, 1010 Lami
Young, C. (Comp. & Gravel), 2615 Victor
Zacharias, Wm., 1204 Park av
Zimmerebner, Dominicus, 5355 Old Manchester rd
Zitko, Joseph C., 1724 Meuard
Zuber, Gottlieb, 3117 S B'way
Zurcher, John T., 1428 Monroe
SALISBURY—Luck, J. W.
SEDALIA—Ilgenfritz Hardware Co.
Sedalia Hardware & Gro. Co.
Smith, D. H. Hdw. Co.
Werner, A. F.
SHELBYVILLE—Miller, N. C.
SLATER—Jeukins, R. T. & Bro.
SPRINGFIELD—Anslinger, K. D. Sheet Metal Works (Slate & Metal), 212 E Walnut
Baum, L. Mfg. Co.
Carmack & Rathbone, 510 Commercial
Speaker, Ernest, 323 Boonville
Springfield Sheet Metal & Furnace Works, Welhermer, William 325 Boonville
STOUTSVILLE—Walters & Kincaid
SWEET SPRINGS—Edgar, L. J. & Co.
Rembert, A. S.
TINA—Evans, E. L. (Est. of)
TRENTON—Lanham, G. W.
Witten Hardware Co.
WARRENSBURG—Stilwell, M. F.
Warnick Bros.
WASHINGTON—Busch, E. G. & Co.
Dickbrader, H. J.
Poppenhausen, William
WEBB CITY—Geiger, G. W.
Mead & Palmer
WENTZVILLE—Wullschlegel, G.
WESTON—Schwope & Mitchell
WESTPHALIA—Buthe, Jos.
WEST PLAINS—Dressler, C. & Co.
Fitzgerald, M. G.
WHEELING—Smiley Bros.
WINDSOR—Colbow & Lewis
Davis, H. T.
WYACONDA—Bowman, Jno.
Matthews, Jas. O.

MONTANA.

ANACONDA—Copper City Commercial Co.
Stagg, J. P.
BILLINGS—Yegan Bros.
BOZEMAN—McCay, Harry B.
McCay, J. J. (Mrs.)
Reeder, W. W.
BUTTE—Anaconda Copper Mining Co. (Hardware Department)
Canonica, Anton
DEER LODGE—O'Neill Hdw. & Plumbing Co.
Zenor & Trask
GLENDALE—Lowe, Wm.
GREAT FALLS—Deutz, Joseph
Great Falls Hardware Co.
Minter, Gus G. (Gravel & Metal)
HELENA—Bausch, C. J.
Krigbaum, P. C. & Co., 352 N Main (Gravel)
McKinnon, H. A., 405 N Main & Comp.)
Mitchell, John (Slate & Metal), 352 N Main
Rummell, Jacob, 114 E 6th av
KALISPELL—McIntosh Hdw. Co.
Missoula Mercantile Co.

LEWISTOWN—Judith Hardware Co.
Mont Hardware Co.
St. Clair, J. H.
MISSOULA—Landick, J. G.
Missoula Mercantile Co., 102 Front

NEBRASKA.

AINSWORTH—Oakley, A.
ASHLAND—Clarke Hardware Co.
BEATRICE—Lock, Ira D.
BROKEN BOW—Grant, W. D. & Co.
Rogers, W. P.
COLUMBUS—Boyd, R. C. & Son
DAWSON—Judd, Lee Roy
FREMONT—Globe Cornice Works
Lee-Miller Hardware Co.
Smith, F. M. & Son
GOTHENBURG—Jennings & Spaulding
GRAND ISLAND—Detlefsen, Lewis
Henke & Co.
Lederman Bros., 211 W 3d
McAllister, R. H.
Wingert, Bert
HASTINGS—Hutchlusion, J. E.
Simons Bros.
HOOPER—Heine Bros.
KEARNEY—Rodinson, C. F. Hdw. Co.
Hubbell Bros.
LEXINGTON—Bancroft, J. S.
Zepf, Geo.
LINCOLN—Baker, Leon, 140 N 10th
Gaiser Bros.
Hall Bros. Co.
Keller, John, 1435 O
Krause, W., 806 O
Nichols Roofing Co. (Comp.), 413 S 7th
Way, Palmer, 2217 O
McCOOK—Polk Bros.
Waite, H. P. & Co.
NEBRASKA CITY—Henry & Fischer
Kuwitzkey, Horace
Ziels, G. W.
NORFOLK—Deguer, Albert
Friday, Jno.
Laubsch, Carl S.
NORTH BEND—May, Milton
NORTH PLATTE—Fillon, Jos. T.
OMAHA—Barrick, Edw'd Roofing Co. (Asphalt, Comp., Felt, Gravel, Slate, Tar, etc.)
Bjornson & Haas, 214 N 15th
Haberstroh, W. A., 4038 Hamilton
Hauth, Philip, 3124 S 20th
Heaton, W. S., 1301 Farnam
Jones, J. H. Roofing Co. (Slate, Tile, Mica, Asphalt, Comp., Felt, etc.), 1517 Burt
Kastl, J. F., 1414 S 13th
Koch, G. E.
Krelle, C. F., 610 S 13th
McMahon, John M.
Mica Roofing Co. (Mica & Gravel), 510 S
Miller & Peterson, 2518 Cumming 12th
Murray, D. E.
Nast, Albert, 717 N 16th
National Roofing Co. (Slate, Gravel, Mica, Tile, etc.), 510 Ware blk
Olson Bros., 2570 Leavenworth
Rogers, G. W. (Comp., Gravel, Asphalt & Felt), 915 Douglas
Savage, Edw'd, 2822 Farnam
Segl, Chas., 2331 Military av
Simonson & Norby, 1705 Cumming
Sunderland Roofing & Supply Co. (Magnesia),
Thrane, L. C., 509 S 10th 1208 Farnam
Wiig & Son, 713 S 27th
O'NEILL—Davidson, James
PAPILLION—Pacey, E. D.
PLATTSBURGH—Kroeblor & Vetesnick
RUO—Winterbottom, Jno. S.
SCHUYLER—Pence, J. A.
Shonka, Geo. A.
SHELTON—Brady, C. F.
SOUTH OMAHA—Grist, M. W.
Jensen, Ferd.
Wright, Sanford
SUTTON—Carney, S.
VALPARAISO—Collier, W. J. & Co.
WACO—Tinker, C. W.
YORK—Hyder, J. V.

NEVADA.

CARSON—Millard, A. J.
EUREKA—Cromer, L. W.
Gavin, Geo.
GOLD HILL—Bennett, J. B.
RENO—Ainley, John & Son
Genesey, B. J.
Nevada Hardware & Supply Co.

NEW HAMPSHIRE.

ALSTEAD—Anderson, S. G.
 ALTON—Buckley, Paul E.
 AMHERST—Taylor, F. O.
 ANTRIM—Hunt, Geo. W.
 ASHLAND—Sanborn, E. W.
 BELMONT—Barrett, W. J.
 BERLIN—Berlin Mills Co.
 Burbank, E. A.
 BRADFORD—Marshall, Chas. H.
 OANAAN—Eastman, Daniel
 CLAREMONT—McGrath, John (Slate, Felt & Gravel), 48 Summer
 CONCORD—Britton, A. H. & Co.
 Darrah, W. E. (Gravel & Slate), 156 N Main
 Hobson, J. Edgar
 DOVER—Cate, J. W. & Co.
 Hayes, Henry G.
 Kennedy, Jas. H. (Slate & Gravel)
 Littlefield, Pray & Co., Wash'n st
 Snow, Geo. W. (Tar & Gravel), 4th st
 ENFIELD—Fogg, Fred. A.
 EPPING—Ladd, John S.
 EXETER—Young, Augustus
 FARMINGTON—Thayer, W. F.
 FRANKLIN FALLS—Jenkins & Wallace
 HAMPTON—Collum, Geo.
 HANOVER—Brown, Chas. D. & Co.
 Ford, E. T.
 HAVERHILL—Facey, E. J.
 HENNIKER—Connelley, Edw.
 Hale, F. W.
 HILLSBORO BRIDGE—Newman, W. E.
 HINSDALE—Taylor, H. W.
 KEESE—Kirk Sewall
 Pearson Bros.
 LACONIA—Smith, James S. & Co.
 LAKEPORT—Brown, W. H.
 Dame, C. C.
 LANCASTER—Moore, L. F. (Est. of)
 LEBANON—Hildreth, C. M. & Son
 LITTLETON—White, R. P.
 MANCHESTER—Blood, F. W. Roofing Co.
 (Slate & Metal)

CLASON SNOW GUARD

428 Kinsley av, Providence, R. I. (See adv. index, end of book)

Briggs, Thos. J.
 Darrah, W. E. (Slate & Gravel)
 Hovey, A. C.
 Knoetner, Geo. & Co.
 Lawson, H. J. (Slate & Metal)
 Mansaen, Jos. T.
 Marineau, Camille
 Moreau, J. J. (Slate, Metal & Gravel)
 Noyes, Fred L.
 O'Brien, Martin
 Pike & Heald Co. (Slate & Metal)
 MARLBORO—Harlow, Edw.
 MEREDITH—Pynn, Gilbert
 MILFORD—Powers, Geo. A.
 MILTON MILLS—Murray, Daniel
 NASHUA—Clarke, E. W. (Slate & Metal), 12
 Colburn, Roy A.
 Sanders, Jas. A. (Gravel, etc.), 7 Union
 Tardif & Bellavance (Gravel), 106 Tolles
 Woodbury, A. K. & Co. (Felt, Comp. & Gravel), 42 Arlington
 NEW MARKET—Griffin, Jno. H.
 NORTH HAMPTON—Philbrick, C. W.
 PENACOOK—Baty, Isaac
 Bean, W. A.
 Quimby, Wm. B.
 PETERBORO—Fish, A. E.
 Nichols Bros.
 Parkhurst Bros.
 PITTSFIELD—Nutter & Foss
 PORTSMOUTH—Paul, Willard E.
 Sweetser, John P.
 Wells, A. N.
 Wood, F. L.
 ROCHESTER—Bailey, C. M.
 Jenkins, C. E.
 SANBORNVILLE—Haynes, J. M.
 SOMERSWORTH—Murray, Jas. W.
 TILTON—Greenwood & Crockett
 Smith & Smith
 WALPOLE—Morse, Chas. W.
 WEST DERBY—Dustin, Geo. F.
 Jenkins, L. B. & Co.
 WEST STEWARTSON—Quimby, Chas. M.
 WOODSVILLE—Lowe, J. R. (Slate)
 Mulliken, A. F. & Son

NEW JERSEY.

ALLEN TOWN—Rohrer, W. H.
 ALLOWAY—Darlington, A. L.
 ARLINGTON—Whitfield, Thomas J. (Slate & Felt), 578 Chestnut

ASBURY PARK—Burke, P. L., 405 Bond
 Day, Edward
 Excelsior Paint & Roofing Co.
 Griffin, James F.
 Hurley, H. W., Bradley Beach
 Hutchison, Addison, Bradley Beach
 Reichy, W. W., Belmar
 Rugarber, Charles
 Ryno, John (Slate)
 Seamon, Joseph L. (Slate)
 Taylor, Andrew, 25 S Main
 Whittle, William (Slate & Felt)
 ATLANTIC CITY—Atlantic City Cornice Works
 Currie Co.
 Frey, Jacob J.
 Holmes, E. R.
 Horan, Michael J. (Slate)
 Kenney, F. J. & Co.
 Leeds, A. P., 2208 Arctic av
 McDevitt Bros. & Co.
 Stevens, B. L.
 Sykes, Jno.
 Taylor, S. C.
 ATLANTIC HIGHLANDS—Leonard, W. W.
 BAYONNE—Devaney, J. J. (Slate & Metal),
 BARNEGAT—Mitchell, Lewis E. 297 Av D
 BELMAR—Crowther, Wm. B., Jr.
 Haberstick, Samuel
 Reichy, Wm. W.
 Williams, T. H.
 BELVIDERE—Perry, D. & Sons
 Widemer Bros.
 BERLIN—Burl, Henry
 BERNARDSVILLE—Bromfield, W. R.
 Buist, David
 Davis, H. J.
 Griffith, Charles H.
 BEVERLY—Cramer, Chas.
 Craythorn, Isaac T.
 BLOOMSBURY—Kremer, Geo. B.
 BLOOMFIELD—Ernst, August
 BOONTON—Kopp's, J. I. Sons
 BORDENTOWN—Enright, James & Co.
 BOUND BROOK—Gillespie, S.
 Voorhees & Brokaw
 BRIDGETON—Adams, Harry L.
 Anderson, Martin Co.
 Custer & Richards
 Harper, Geo. W.
 Moore, William F.
 BURLINGTON—Barclay, Robert W.
 Buck, Isaac W. (Est. of)
 Estilow, Leon
 Fireng, Franklin G.
 Jobs, George W.
 BUTLER—Harmon, John
 CAMDEN—Austermuhl, E., 526 Market
 Austermuhl, Geo. (Metal), 23 N 3d
 Barnett, Jno. M., 507 Berkley
 Bigler, Geo. E., 2800 Cleveland av
 Camden Sheet Metal Works (Comp., Gravel
 & Slate), 525 Clinton
 Childrey, T. D. & Son, s w c 7th & Kaighn
 av
 Cole, Chas. A. (Slag), Delaware av c Wood
 Curry Eros., 408 Pine
 Dobbins, Oscar C. (Gravel, Comp., Slag & Slate), 38 N 5th
 Doughten, Wm. H., 310 Pine
 Duncan, W. P., 3d c Main
 Farrell, Dan., 106 N Front
 Fay Manila Roofing Co., 516 Point
 Hunsinger, Wm. E., 1119 Newton av
 Johnson, John W. (Slate, Comp. & Gravel),
 408 Haddon av
 Klostermann Bros. Co. (Slate & Metal),
 1016 B'way
 Kreher, Herman, 1220 N 25th
 Kurth, Chas., 836 B'way
 Lounsbury, Harry C., 539 Arch
 McDonald, Owen, 1642 Ferry av
 McFerren, Geo. W., 328 Arch
 McManns, Mitchell, 505 N 5th
 Metallic Mfg. Co., 232 Spruce
 Moore Bros. (Slag), 517 B'way
 Neutze, Jacob, 510 S 5th
 Reihmann, Max., 1000 N 26th
 Schrack, Welling G., 513 Federal
 Sigle, C. R. (Slate), 24th c Federal
 Spaeth, G. F., 512 Chestnut
 Thorne, Joel E., 613 S 6th
 Vanderslice, Thos. A., 523 Federal
 Welsh, Geo. W., 828 S 8th
 Whitehead, Caleb C. (Slate, Comp., Slag & Gravel), 26 S 5th
 CAPE MAY—Curtis, B. S.
 Shallus, C. K.
 Swain, Chas. A.
 Wilson, J. R. & Son
 CARTERET—Spitz, Otto
 CEDARVILLE—Danzenbaker, J. L.
 CHATHAM—Hynes, Julia M. (Slate & Comp.)
 CLINTON—Butler, W. G.
 COLLINSWOOD—Albertson, Chas. R.
 CRANFORD—Doyle, John

DOVER—Bennett, S. R.
 Searing, W. W. (Slate)
 Swackhammer, P. W.
 EAST ORANGE—Blair, Saml. J. (Slate), 27
 Ashland av
 Harrison & Walker, 341 Main
 Van Duyne, Ellsworth (Slate), 109 Dodd
 EGG HARBOR CITY—Hofmann, V. P.
 Woerner, Albert
 ELIZABETH—Brucklacher Bros., 1165 Eliza-
 Dederick, James W., 33 1st beth av
 Elizabeth Cornice Works, 250 N Broad
 Elizabeth Roofing Co., 114 E Broad
 Hadden, Elias W., 1177 E Grand
 Messing, George, 1009 E Grand
 Miller, F. Stanley, 120 1st
 Walker, W. J., 5 Washington av
 ELMER—Barber, L. R.
 Wentzell, Geo. A.
 ENGLEWOOD—Dubois, Chas. L.
 Hickey & Baker
 FLEMINGTON—Kline, Jas. A.
 Weiler, Chas. V.
 FREEHOLD—Denise & Buck
 De Roche's, Jno. L. Son (Slate)
 White, Alonzo
 GLOUCESTER CITY—Batten, L. C.
 Hannold, Samuel
 Klosterman, John M.
 Oakes, James J.
 GUTTENBURG—Greenthaler, Frank, 34 Ber-
 Weber, Otto J. genline av
 HACKENSACK—Cleveland, E. M.
 Van Orden, C.
 Wiedermann, Edw.
 HACKETTSTOWN—Christian, Jay S.
 Osmun, E. M. & Son
 Titus, Frank P.
 HADDONFIELD—Bennett & Dreyer
 Eisele & Manning
 Pettibone, W. H.
 HAMBURG—Linn, Jno., Jr.
 HAMMONTON—Baker, Wm.
 HARDINGVILLE—Bryce, Samuel W.
 HARRISON—(See Newark)
 HIGHTSTOWN—Skillman, A. T. (Gravel & Iron)
 Thomas, Jas. A. (Gravel, Metal, Asphalt & Slate)
 HOBOKEN—Dorsett, T. W., 1113 Clinton
 Hansen, Arnold C., 152 4th
 Kennedy's, John Sons, 315 Newark
 Leonard Sheet Metal Works (Inc.), 219
 Mohn, Chas. A., 156 7th Grand
 Mohn, W. J.
 Rader, Henry, 223 Washington
 HOPE—Bryan, O. E.
 IRVINGTON—Paulus & Heyl
 JAMESBURG—Jennings, Frank (Slate)
 JERSEY CITY—Anderson Bros. Co., 394 Grove
 Babst, David, 48 Franklin
 Bowerbank, Jno. W., 24 Germania
 Cole, W. R., 588 Ocean av
 Commonwealth Roofing Co. (Comp.), 19th & Grove
 Cross, Wm. J., 157 Webster
 Donovan, Daniel F., 489 Newark av
 Driscoll, Jas., 527 Grove
 Dupont, Geo. R., 41 Greene
EASTERN GRANITE ROOFING CO.,
 209 Provost. (See adv. index, end of book)
 Ebert, Gustav H., 100 Monticello
 Edelstein, Max, 324 Newark av
 Funk, Frank C., 439 Grove
 Gutschmidt, Herman, 576 Palisade av
 Hauser's, F. Sons, 207 Newark av
 Heinzmann, Fred'k, 578 Pavonia av
 Henningsen, Hy. (Slate, Tile & Metal),
 Bright
 Holbrook & Thompson Roofing Co., 1 Mont-
 gomery
 Johnson, Chas. A., 90 Montgomery
 Johnson, Silas D.
 Kenny, Michael, 133 Bright
 McCallum, Wm. C., 200 4th
 Marschner, Richard, 219 Pine
 Mulhearn, John, 416 Grand
 National Sheet Metal Roofing Co. (Slate,
 Gravel & Metal), 339 Grand,
 N. Y. Iron Roofing & Corrugating Co.,
 Washington & 1st
 O'Crowley, J. J., 45 Hudson
 Pfister, Fred, 105 Lincoln
 Ringle, Jacob & Son (Slate, Tile & Metal),
 83 Newark av
 Ripp, Edw'd O., 747 Grand
 Roes, Fredk., 176 1st
 Schock, Charles, 266 Old Bergen rd
 Schreck & Waeltz, 27 Hague
 Schwartz, Paul, 339 Henderson
 Sethmann, Herman, 234 Monticello av
 Shufflebotham, Henry, 236 Fairmount av
 Sonnenblick, Isaac, 471 Grove
 Sproul, Jos. A., 339 Montgomery
 Stowell Mfg. Co., 439 West Side av

Villepigue, J. T., 80 York
 Weigel, Joseph L., 155 Neptune av
 Wimmer, Jacob, 165 New York av
KEARNY—(See Arlington)
LAKEWOOD—Arling, Jno. H. (Slate, etc.)
 Davidson, J. F.
 Snedeker, Clarence L.
 Stephenson, J. F.
 Turner, John N.
LAMBERTVILLE—Hunt, G. V. (Slate & Tin),
 Wilson, A. Carmon 47 Bridge
LONG BRANCH—Clark, Jno., Jr.
 Smock, Howard
 Warwick, Wm. R., Jr. (Slate & Metal)
MADISON—Allen, Geo. A. (Slate)
 Burnet, Jas. E.
MANASQUAN—Chapman, John H.
 Marks, Robert A.
MATAWAN—Fountaine, Wm. A.
 Geran, O. T.
MERCHANTVILLE—Fisher, Geo. A.
 Miles, Wm.
MILLBURN—Bailey, F. S.
 Douglass, Thomas A.
MILLVILLE—Brandriff, A., Jr.
 Gray, H. A.
MONTCLAIR—Crane, I. Seymour
 Harkins, D. F.
 Heller, P. J.
 Neilson, Gustave E.
MOORESTOWN—Measy, F. A.
 Worrell, E. C.
MORRISTOWN—Byram, W. G.
 Kay, Wm. J. (Slate & Metal)
 Searing, Theo. F.
 Tompkins & Welsh
MOUNT HOLLY—Brannan, W. J.
 Stead, Elwood
 Tomlinson, L. A.
 Worrell, Geo. D.
NEWARK—Allwood, J. R. & Son (Slate,
 Gravel, Felt, etc.), 39 Marshall
 Amend, Peter (Slate, etc.), 53 1st
 Amend, Philip J. (Slate, Cement, etc.), 25
 N 11th
 American Asphalt Met Roof Co. (Slate),
 45 Clinton
 Balcer & Conrad (Cement, Gravel, Felt,
 etc.), 42 Mechaule
 Banister & Pollard (Asbestos, Gravel, Ce-
 ment & Felt), 206 Market
 Berla Bros. (Cement, Gravel, Felt, etc.), 217
 Wash'n
 Bertsch, Jos. (Slate, etc.), 359 Market
 Burnett Asphalting Co., 87 James
 Carey, Philip Mfg. Co., 45 Clinton
 Commonwealth Roofing Co. (Gravel, Felt,
 etc.), 19 Division
 Ding & Teuseher, 476 18th av
 Drummond, W. H. Co., 60 Lafayette
 Freund & Heffernan Roofing Co., 40 Frank-
 lin
 Geiser, Theodore & Sons (Gravel, Felt, etc.),
 248 Plane
 Hetzel, John G. (est. of), (Slate, Felt, Ce-
 ment & Gravel), 67 Maine
 Macknet & Doremus (Asbestos), 796 Broad
 Higel & Freund Roofing Co. (Cement, Gravel,
 etc.), 40 Franklin
 Lawrence, L. & Co., 292 Halsey
 Leonardis, P. & Sons (Paper), 59 River
 Newark Cornice & Skylight Works, 9 17th
 Pitts, Charles L. Co., 58 E Park av
 Robinson, J. A., 87 Madison
 Schmidt, Herman, 23 Bowery
 Smith, Frank F. (Iron, Steel & Tin), 53
 Stanley, C. M., 22 Clinton Sherman av
 Steinberg, Jacob, 229 Belmont av
 Steiner, Max, 157 Bruce
 Wagner, Wm. H., 18 Bedford
 Walters, George, 52 Hartford
 Wertz, Alfred H., 124 S 13th
 Wolstencroft, T. W., 7 Summer av
NEW BRUNSWICK—Barton, John W., 279
 Bergen, Cornelius J., 206 New Delevan
 Huston, Wm. J. (Slate, etc.)
 McFadden, Michael
 Price's, H. M. Sons, 249 Burnet
 Reilly, John J.
 Smalley, Wm. & Son, 289 Burnet
NUTLEY—Faith, E. E.
 Hayes, Thos.
ORANGE—Hindle & Williams, 295 Main
 Meyers, Wm., 113 Centre
PASSAIC—Falstrom & Tonquist Co.
 Hubinger, Chas.
 Passaic & Rutherford Slating Co.
 Reimig & Geiger
 Tornquist Co.
PATERSON—Baird, Jno. (Slate, Tile & Metal),
 79 Mill
 Beaumont, John & Sons, 53 Market
 Brogan, T. J. Co., 556 Main
 Commonwealth Roofing Co., 184 Railroad av

Fritz, Adam, 39 Paterson
 Graves, James, 94 Washington
 Mawhinney, John, 60 Jasper
 Mulligan, John, 249 Totowa av
 Nealon & Farnon (Slate & Metal), 354 Grand
 Quinn Bros. (Slate & Metal), 9 Fair
 Rogers, Andrew J. Co. (Slate & Metal), 90
 B'way
 Rutt Bros. (Slate, Slag & Gravel), E 27th c
 Van Houten, W. T., 43 River
 Whritenour, Geo. P., 20 Hamburg av
 Woods, Andrew, 360 Main
PAULSBORO—Furry, B. Frank
 Roberts, Seth
PEDRICKTOWN—Summers, E. E.
PEMBERTON—Wells & Jones
PENN GROVE—Dalbow, Jacob K.
PERTH AMBOY—Kelly & McAlinden
 Larkin, F. J.
 Seel, Chas. (Slate)
PHILIPSBURG—Baty, Phillip
 Folk, J. H.
 Harnes, Wm. H.
 Hubb, E. L. & Bro. (Slate)
 La Barre, Aaron
PLAINFIELD—Graves, Charles C., 819 S 2d
 Griffin, A. M., 119 E Front
 Maier, Alex. G.
POMPTON—Florence, J. H.
 Roome, Chas. P.
PRINCETON—Stryker, A. Y.
 Worrell, Shinn & Co.
RAHWAY—Marsh, Jno. J., 137 Main
 Ticc, C. H.
 Tombs & Roarke, 28 Main
RARITAN—Wyckoff, Jas. C. (General)
RED BANK—Patterson, James C.
 Sabbath & White
 Sutton, Jno.
RIDGWOOD—Banta-Owens Plumbing Co.
 Christopher, Jas. H.
 Duffy, Jos. M.
 Moore, W. H.
 Morgan, Wm. P.
RIVERSIDE—Orfe, G. J.
RIVERTON—Lynch, Wm. B.
 Worrell, Harry C. (Slate & Metal)
ROCKAWAY—Rockaway Hardware & Stove Co.
RUTHERFORD—Black, Wm. & Co.
SALEM—Casper, Chas. W.
 Guest, C. B.
 Righter, J. C.
SCOTCH PLAINS—Jahn's, Robert Sons
SOMERVILLE—Mundy, T. C.
 Sargeant Bros. (Slate)
SOUTH AMBOY—Carberry, Jas.
SOUTH ORANGE—Kitchell, J. L. & Son
SUMMIT—Hahn, Wm. (Slate & Gravel)
SWEDSBORO—Reed & Rieger
TOMS RIVER—Brandt, Amos A.
 Roberts, Thos.
 Van Nostrand, E. S.
TRENTON—Arundale, Merrick, 442 N Clinton av
 Aull, Joseph & Son
 Bennett, Peter H., 137 Center
 Crossley, Samuel, 405 S Broad
 Doerfler, Geo., 28 Cummings av
 Estgen, John C., 104 Humboldt
 Farrell Bros., 109 E Hanover
 Fell, Henry R. Co. (Slate, Tile & Slag)
 Olinsky, Morris
 Philkill, Mahlon, 126 Allen
 Purvis, G. H., 319 S Warren
 Royle, Elmer E., 14 Lincoln av
 Rugaher, Reinhart
 Selger, Morris, 23 E Front
 Skirm, A. A. & Son, Broad & Perry
 Smith, G. E., 360 S Broad
 Straiger, Chas., N Clinton av
 Street, S. F., 2 Hampton
 Tuesday, F. S., 329 Liberty
 Voorhees, Elmer E., 462 W Hanover
 Voorhees, Geo. D. & Sons, 181 Pennington
 av
 Wallace, M. E. Mfg. Co., Broad Street Bank
 Warren-Ehret Co., 135 E State hldg
 Willever, Frank C., 927 Chestnut av
VINELAND—Austin & Turner
 Bagg, W. L.
 Himes & Barreta
 Read, Jno. H.
 Webb & Dillon
WASHINGTON—Flint & Hall
 Johnston, Jas. H.
WEEHAWKEN—Heyer, Chas.
WESTFIELD—Ferris, Mahlon H.
WEST HOBOKEN—Gutschmidt, Wm. H., 810
 Poeschel, Oscar, 524 Ann John
 Poeschel, Osmar, 614 Spring
 Sutter, Louis, Clinton av & Courtland
 Werner, William
WEST NEW YORK—Fuhrman, Jno. B.
 Hildebrandt, Jno. A.
 Merkel, Sylvester

WOODBIDGE—Humphrey, Robert
 Moore's, E. F. Sons
WOODBURY—Kleinhanz, John V.
 Sampson, Chas. E.
WOODSTOWN—Lippincott & Hunt

NEW MEXICO.

ALBUQUERQUE—Albuquerque Hardware Co.
LAS VEGAS—Patty, S.
 Vogt & Lewis

NEW YORK.

ADDISON—Lain, E. R. (Mfrs.)
ALBANY—Ackroyd, James & Sons (Comp.,
 Slate, Metal & Tile), 10 James
 Brittt, John J., 142 Central av
 Campbell, Chas. C., 82 Washington
 Coughlin, T. N., 253 Ontario
 Delehanty's, M. Son, 26 Green
 Drumm, Geo. E., 87 Westerloo
 Dunn, Thos. E., 335 Central av
 Fitzgerald, Jno. L., 22 Beaver
 Gersbach & Schafer, 17 Central av
 Gillan, Hugh, Jr., 298 Sheridan av
 Goetz, Edward (Slate & Metal), 211 S Pearl
 Gorman, Jas. J., 14 Norton
 Hood, W. R., 115 Hamilton
 Kieley & Stahl, 10 Green
 Macnee & Rabe (Sparham, Slate, Metal &
 Gravel), 659 B'way
 Martineau, J. E., 473 Madison av
 Martineau, N. 64 Lafayette
 Scott, Jno., 189 Quail
 Sheehan, Joseph P., 125 Madison av
 Tittlebaum, Simon, 203 S Pearl
 Van Loon Plumbing & Heating Co., 120
 Madison av
 Walsh's, Jas. D., Sons, 40 Sheridan av
ALBION—Blott, Alfred
 Carter, William E.
 Waterman, G. M.
ALDEN—Patrell, H. P.
ALEXANDRIA BAY—Hartman, Henry
 Thompson, W. H. & Son
ALTAMONT—Manchester & Co.
 Tabor, Chas. E.
AMENIA—Fry, B. H.
AMITYVILLE—Cort, Geo. W., Jr.
AMSTERDAM—De Graff, I. J.
 Jones, B. F. (Slate)
 Kaiser & Freydenborg
 Larabee, J. E., 5 Market
ANGELICA—Horner, S. G.
AUBURN—Armstrong, Geo. H. (Slate & Gran-
 Everts Hardware Co. ite), 6 Market
 Herron, P. M. Hardware Co.
 Smith & Pearson, 102 Geesee
BABYLON—Ketcham, W. P.
 Ohlmiller, Sebastian
BAINBRIDGE—Barlow & Clark
BALDWINVILLE—Baker Bros.
 Kiley & Haendle
 Voorhees, J. S. & Co.
 Wilson, Geo. W.
BALLSTON SPA—Armer, Fred
 Tracy Bros.
BATAVIA—Dawson, W. E. (Slate & Comp.)
 Russell & Palmer
BATH—Brownell Co.
 Gould & Nowlen
 Peck, G. W. Co.
 Sutherland, Washington
BAY SHORE—Vail, C. W.
BELMONT—Nicholson, Jno.
BERLIN—Lewis, W. H. & Son
BETHEL—Gahriel, Geo. D., Jr.
 Sutter, Wm. E.
BINGHAMTON—Christle, Walter (Slate), 77
 Crane & Lockwood, 12 Court State
 Folsom, R. W., 125 Washington
 Freeman, E. G. & Co. (Slate & Metal), 81
 Harris, Geo. M. Water
 Lynch's, J. R. Sons (Slate & Tin), 86 State
 McIntyre & Hull
 O'Neil, Matthew
 Sullivan, Grant & Co.
 Tupper & Johnson
 White, A. C. & Son
 Young, John J.
BREWSTER—Avery, Silas O.
 Smith, W. E.
BRIDGEHAMPTON—Sanford, J. A. & Son
BRIDGEPORT—Draper, Horace V.
BROCKPORT—Brennan & Adams
 Hinman & Fowler
 Van Eps, W. B.
BROCTON—Whipple, F. B.
BROOKFIELD—Stillman, J. T. & Son

BROOKLYN—(See New York City, Borough of Brooklyn)

BUFFALO—American Warren Roofing Co., 175 Seymour

Armbrust's, Jno. Sons, 789 Genesee
Baird, Fred. H., Erie & Erie Canal
Bauer, Leonard, 105 Roehrer av
Bauer's, Chas. Sons, 159 William
Bean, S. & Co., 69 Main
Berkhausen, Rudolph, 272 Forest av
Beyer, Wm. H., 169 E Ferry
Bower, Geo. A., 193 Grant
Bowers, John J., 591 Clinton
Brand, Edw., 709 Hopkins
Brotherston, John D., 889 Seneca
Carey, Philip Mfg. Co., 141 Ellicott
Carl, Otto, 50 E Utica
Christmaun, Philip & Sons, c Orange & Virginia

Degenhart & Co. (Copper, Metal & Sheet Iron), 1910 Niagara

Eberz, Peter W., 285 Dearborn
Elsinghorst, A., 138 B'way
Elsinghorst, Jno. H., 574 Michigan
Farley, Jno. W., Delavan av & Grant
Fisher, Martin & Sons, 75 W Chippewa
Fix, Chas. J., 808 Main
Freme Roofing Co. (Tar), 411 Grant

GILMAN SNOW GUARD

103 Merrimac, Boston, Mass. (See adv. index, end of book)

Glinski, Anthony, 1097 B'way
Grant, Gilbert, 343 Michigan av
Grove Roofing Co. (Comp. & Gravel), 121
Gruber, Rupert, 541 Sherman W Eagle
Guenther, Theo., 1285 Jefferson
Hall, L. W. & Son, 216 Pearl
Hauck, Adam & Sons (Metal), 505 Main
Hansen, Chas., 577 Niagara
Henrich, Geo. W., 1352 Jefferson
Henrich, John, 322 William
Herd, J., 365 Genesee
Herrmann, Adam, 617 S Park av
Jameson, C. B., 250 Pearl
Jefferson, Thos. M., 157 W Mohawk
Keiser, C. G. (Metal, Copper & Sheet Iron), 400 Michigan

Kempel, Charles J., 1113 Bissell av
Kenefick, M., 361 Mass. av
Kener, Edw., Jr., 400 Connecticut
Kiendl, Robert J., 728 Michigan
Kirkpatrick, John, 364 Auburn av
Lessing Herman E., 238 Bissell av
Lindsay, Wilson, 167 E Ferry
Lipp, A. M., 385 B'way
Lipp, Jno., 371 B'way
Lipp & Nauth (General Roofers), 334 Gene-
see
Lund, Daniel, 153 W Mohawk
McCutcheon, C. H., 18 Ohio
Mache, George F., 11 Locust
Machwirth Bros. Co. (Slate, Metal, Tile, Asphalt & Gravel), 201 Oak

Menge, Fred A. (Slate & Metal), 480 Gen-
esee
Menig, Eugene, 118 Ash
Menig, Michael, 123 Maple
Mesmer, G. W., 533 Niagara
Meyer, Joseph, 534 Genesee
Meyers, Wm. F., 518 Seneca
Mischler, Edward, 2693 Main
Mumby, Angus M., 357 Virginia
Peters, Geo. H. Co. (Slate & Metal), 289
Pohlmann, Philip, 194 Peckham
Rademacher Bros., 345 Fox
Reckenwait, Albert, 487 Connecticut
Riemann Bros., 64 E Chippewa
Reiher, Martin, 255 Stanton
Roche & Moore, 158 Ohio
Reiher & Kroll, 334 Genesee
Rosing, Jacob, 656 William
Rothbarth, Jno. C. (Metal), 509 Elm
Roty, Anthony, 835 Main
Ruslander, A. S. & Son, 439 William
Schell, Chas. F., 639 Walden av
Schmahl, Jacob, 26 Lord
Schultz, C. J., 1328 Jefferson
Seilheimer, Christian, 462 William
Shuart, A. E. (Metal, etc.), 135 Hoyt
Sleininger, Chas. L., 704 Swan
Smith, D. L. (Slate, asphalt, Gravel, Metal, Stock, Jos. F., 251 B'way etc.), 31 Church
Strohmaler, J. F. (Metal), 623 West. av
Urban, Geo. H., 296 B'way
Wick, Jacob M., 790 B'way
Wick, Martin, 586 B'way
Willerth, Conrad, 376 Box av

BYRON—Boyce, J. A.

CALEDONIA—Humphrey, O. M.

CALLICOON DEPOT—Doetsch, H.

CAMBRIDGE—Maxwell, Gilbert

Watkins, Robt. H.

CAMPBELL HALL—Howell, Chas. B.

CANAJOHARIE—Scharff, Chas. W.

Wheeler, W. R. & Co.

CANANDAIGUA—Kelly, Jno. H.

Lisk Mfg. Co.

CANASTOTA—Bemiss & Co.

Zapf & Co.

CANISTEO—Laine, Orton O.

CANTON—Howe Bros.

Jamieson Bros.

Taliman & Howe

CARTHAGE—Arnot, Wm.

Chaufy, R. & R. C.

Strickland, J. E. & Son

CASTILE—Cole & Andrus

CATSKILL—Conklin, Charles

Day & Holt

Jones, H. T. & Son

CATTARAUGUS—Jewell, J. H. & Sons

CEDARHURST—Haller, Paul

CENTRAL BRIDGE—Wessell, John W.

CHAPPAQUA—Tompkins, Amelia

CHARLOTTE—Hamlin, Wm.

CHARLTON—Smith, Norman & Son

CHATHAM—Welch, J. F.

CHAUMONT—George Bros.

CHERRY VALLEY—Bierman, Richard

Fox & Brien (Slate)

CHESTER—Conklin, F. L.

Thompson, J. T.

CHESTERTOWN—Vetter, Fred'k

CHITTENANGO—Gay, H. L.

CHURCHVILLE—Thompson, Henry H.

CLIFTON SPRINGS—Judd & Leland Mfg. Co.

CLINTON—Allen, H. J. (Tinware Mfrs.)

Clark, Jas.

CLYDE—Bliss & Compson

CLYMER—Gallup & Hazen

COBLESKILL—Stilson, A. G. & Son (Slate & Metal)

Van Voris, I.

COHOES—Clark, Jno., 24 Willow

Golden, John B.

Loop, W. H., 44 Van Renselaer

White, David (Slate etc.), 83 Ontario

COLD SPRING—Camp, F. M.

Murray, Mrs. M. A. & Son

COLD SPRING HARBOR—Nichols, Frank

COLLEGE POINT—(See New York City, Borough of Queens)

COOPERSTOWN—McEwan, Wm. L.

COPENHAGEN—McCuen, R. G.

CORFU—Palmer, C. O.

CORNING—Corning Mfg. Co. (Slate & Metal)

Hammond, H. L.

Williams, A. F.

CORNWALL LANDING—Taft-Howell Co.

CORNWALL ON THE HUDSON—Wood, Thos. J.

CORTLAND—Bennett Hardware Co.

Hollister Hdw. & Plumbing Co.

COWLESVILLE—Munger, F. W.

COXSACKIE—Church, W. R.

CROGHAN—Tanzer, Chas. L.

CROWN POINT—Huestis, F. E.

CUBA—Gee, C. A.

Olive, Jas. G.

Sisson & Smalley

CUTCHOGUE—Arthur & Tuthill

DANSVILLE—Bailey, J. J. & Son

DELHI—Graham, H. S.

DEPOSIT—Deposit Hardware Co.

Minor, A. P. & Son

DE RUYTER—Mitchell, H. P.

Walker, H. S.

DESPATCH—Cross, Geo.

DICKINSON CENTER—Boylington, L. H.

DOBBS FERRY—Hamill, M. (Est. of)

DOLGEVILLE—Faville, W. H.

DRYDEN—Bartholomew, D. P.

DUNDEE—Beckman, Cleary & Van Lew

Bigelow, C. J. & Co.

DUNKIRK—Allenbrand, E. (Est. of)

Alling & Fields

Bloss, Clark Co.

Grissold, D. H.

EAST HAMPTON—Grimsshaw, S. C.

Northrup, O. H.

EAST RANDOLPH—Johnson, B. R.

ELLENVILLE—Rose & Childs

ELLCOTTVILLE—Doollittle, J. E.

ELMIRA—Barker, Rose & Clinton Co., 109 Lake

Burgess, F. S.

Connelly, Richard

Hughson, F. W.

Hurth, A.

Kelley, Danl. J.

Losle Bros. (Slate, Tile & Gravel), 305 Mar-

ket

Young, Charles W., 114 Lake

ESPERANCE—Miers, Milton

EVANS MILLS—Hungerford, E. O.

FAIRPORT—Brydges, H. H.

Dunhar, Julia G.

Schummers, F. F.

FALCONER—Asker, Leonard

FAR ROCKAWAY—(See New York City, Borough of Queens)

FAYETTEVILLE—Mott Bros.

FISHKILL ON THE HUDSON—Conner, Chas.

Griffin & Howe

Dolson, W. H.

Rogers, W. H.

Yates, J. H.

FLUSHING—(See New York City, Borough of Queens)

FORT ANN—Lewis, E. A.

FORT EDWARD—Bowtell, C. W.

Newton & Hill

FORT PLAIN—Linney, Wm. T.

Stewart & Bergen Co. (Slate)

Williams & Tanner Co.

FRANKLINVILLE—Salisbury & Son

FREDONIA—Case & Zahm

Gould, Frank J.

Scott, F. W.

Slaght, C. S.

FULTON—Johnston, Geo. (Steel), 90 Glen

Snow, A. J.

White, Jno.

FULTONVILLE—Brace, Richard A.

GARDINER—Miller, W. O.

GENESEO—Stevens & Vallance (Gravel & As-

phalt)

GENEVA—Dorchester & Rose (Slate & Metal)

Phillips, Amos H.

Wilson, Wm.

GLEN COVE—Crandall, Fred. A. (Slate, etc.)

Seaman, S. J. (Slate)

GLENDAL—(See New York City, Borough of Queens)

GLENS FALLS—Alexander, George M.

Delong's, Sons, 120 Glen

Thomas, H. & Son, 81 Glen

Whipple & Robinson, 134 Glen

GLOVERSVILLE—Bailey, W. F.

Batcheller, E. S. & Co.

Brammer, John L.

Graff, Isaac D.

Hauson, Abram

Hanson, Andrew & Son

Peck & Cooper

Shinville, H. G.

GOWANDA—Kammerer, Jno.

Slaght, E. T.

Stafford, A. C.

GOSHEN—Goshen Hdw. Co.

Kniffen & Hopkins

GOVERNEUR—Cutting & Perrin (Felt & Tin)

Katzmau, A.

Williams, D. H.

GRANVILLE—Henry, Geo. W.

Nelson, D. D. & Co.

Sullivan, P. J.

GREAT NECK—Best, Geo. & Son

GREENE—Beals, F. H.

GREEN ISLAND—(See Troy)

GREENPORT—Corwin, Aug.

Gehreng, John

Walters, F. L.

GREENWICH—Crandall, Lester

Parker & Cleveland

GRIFFIN CORNERS—Angle, Edgar F.

Todd, A. H.

HAMBURG—Fish & Kronenberg

HANMONDSPOUT—Warren, G. F.

HANCOCK—Schenk, Reinhold

Wheeler, Samuel N. & Sons

HARRISVILLE—Crandall, H. D.

HARTFORD—Palmer, J. & Son

HARTWICK—Porter, V. C. & Co.

HASTINGS UPON HUDSON—Fallon, Martin A.

Will, Frank J.

HAVERSTRAW—Bedell Bros. (Slate)

Demarest, Ira

Springsteen, Daniel

Tremper, Jas. E.

HEMPSTEAD—Carman, H. V. & Co.

Kelly, M. & Son, 98 Main

Seifert, George

HENDERSON—Thompson, Payson F.

HERKIMER—Metzger, Wm. F.

Palmer, C. W. & Co.

Pelton Bros.

HEUVELTON—Poppo, Geo. N.

HICKSVILLE—De St. Leger, J.

Quarltius, John

HIGHLAND—Feeter, J. W. (Slate & Metal)

HILTON—Taher, Edson

HOBART—Carroll, A. S.

HOLLEY—Edwards, Ira

Payne & Trimble

HOLLIS—(See New York City, Borough of Queens)

HONEOYE—Knapp, R. H.

HONEOYE FALLS—Pride, Jas. M. & Son

HOOSICK FALLS—Ahele & Brown

Dorr, Chas. M.

HORNELLSVILLE—McGuire, C. F.
Roberts, Wallace
Rosc, J. R. & Son
Shaut, M. J.
Spencer, H. D.

HUDSON—Benedict, Russel & Son
Davis, E. H., 11 N 6th
Macy, Frank A., 612 Warren
Rogerson, Jas. C. & Co.

HUNTINGTON—Hendrickson, A. P.
Stoyle, Wm. H.

ILION—Grimes & Pelton

IRVINGTON—Ackerman, Albert
Palmer, E. J.

ISLIP—Field, John B.
Lennon, Jos.
Williams, Wm. E.

ITHACA—Barr Bros.
Freeman, C. W. & Co.
Klenke & Drew
Rumsey, C. J. & Co.

JAMAICA—(See New York City, Borough of Queens)

JAMESTOWN—Clark Hdw. Co., 109 Main
Humphrey, R. H. (Slate, Steel & Iron), 705 E 2d
Jamestown Roofing Co. (Felt), 105 E 3d
Lewis, P. F. & Sons, 707 Main
Lloyd, E. D.
Marsh, F. O.
Rosencrantz, Eloy & Co.
Venblow, F. A.

JOHNSTOWN—Lynes, Wesley
Randall, Frank
Rice, John C.
Van Nest & Goodwill

KATONAH—Kellogg & Mead
Tuttle, J. A. (Slate)

KEESEVILLE—Callahan Bros.
Samson, A.

KINGSION—Carter's, Enoch Sons, 46 Hasbrouck av
Dobbs, Samuel (Slate), 20 Ann
Gallagher, Fredk., 12 N Front
Thompson, Frank S., 43 N Front
Wieber, Henry E. (Slate, Metal, Iron, Copper & Tin)
LE ROY—Buell Hdw. Co.
Taft, Fred. L. B., 10 Main
LESTERSHIRE—Becker, C. D.

LIBERTY—Monroe, R. A.

LINDENHURST—Ramsauer, Henry, Sr.

LITTLE FALLS—Gibbs, Geo. D.
Lamb, David T.
Wilcox, W. H.

LITTLE VALLEY—Sweetland, S. L. & Co.

LOCKPORT—Burtis, Arthur L., 30 Evans
Emerson, Clark, 37 Market
Henderson, William
Higgs & Staples, 58 Main
Lambert Bros., 33 Locust
Moran, P. & Son, 32 Main
Stainthorpe, C. N. & Co., 126 Main
Walker, Wm. & Co., 6 Pine
Webber, Chas. W., 61 Main

LONG ISLAND CITY—(See New York City)

LOWVILLE—Fowler Bros. Bor. of Queens
Stoddard, M. A.

LUZERNE—Kinnear, Wm. J.

LYNBROOK—Waldron, John J.

LYONS—Hartman, W. T.
Marshall & Noble
Nusblckel, Fredk.

MALONE—Fell, Edw. L.
Fellion, W. F.
Roby, Charles N.
Tulley, Jas. H.
Thompson, H. D. & Co.

MAMORONECK—Gedney, H. J.
Koffman, Henry
Leonard, Walter

MANNVILLE—Huggins & Beebe

MARATHON—Myers, Chas. S.
Seamans Bros.

MARCELLUS—Mattison & Son

MARION—West, A. A.

MARLBORO—Hughes, T. H.
Purdy, Hanford

MASSENA—Hutchins, James

MATTEAWAN—Alsdorf, Leander
Rogers, D. C.

MATTITUCK—Wickham, J. W.

MAYVILLE—Albro, F. E.
Hutson, Thomas
Sixbey, H. & Sons

MECHANICSVILLE—Allen, William H.
Baker, S. C.
Safford, J. S. & Son

MEDINA—Acer & Whedon
Hanlon Bros.

MEXICO—Norton, W. H.

MIDDLEBURG—Sullivan, F. A.

MIDDLE GRANVILLE—Rogers, A. N.

MIDDLEPORT—French, Edgar B.
Sherwood, A. G.

MIDDLETOWN—Brink & Clark, 28 North
Conklin, James H., 9 Depot
Musbach, Cuno (Slate & Metal)
Musbach Roofing Co. (Slate, Tin, Tile, Gravel, etc.)
Swaim, Geo. A. & Son Co., 18 North

MIDDLEVILLE—Whiting, Jas. F. & Son

MILLBROOK—Merritt & Colville
Fizie, B. J.
Woolheater, Benj.

MILLERTON—Paine, J. R. & Son

MILTON—Goehrenger, Wm. A.

MOHAWK—Adams & Co.
Richardson, J. G.

MONROE—Knight, C. S.
Smith & Strebel

MONTGOMERY—Brown Bros.
Wade, A. N.

MONTICELLO—Purdy & Demerest
Smith, Chas. E.
Tymeson, J. F.

MORAVIA—Small, F. & Sons

MOUNT KISCO—Gorham, David F.

MOUNT MORRIS—Osborn, E. B.
Russell & Cully
Walker, J. O.

MOUNT VERNON—Hoffman, K., 40 N Bond
Longstaff, Jno. (Slate), 119 N 4th av
Norden, Jacob, 48 Mt. Vernon
Rich, F. T. (Metal & Slate), 11 S 3d av
Ryan, James H.
Wilkin, H. C.

NAPLES—Bolles, John & Son

NARROWSBURG—Anderson, Jno. S.

NASSAU—Calkins, Chas. H.

NATURAL BRIDGE—Montondo, J. N.

NEWARK—Bobrowsky, Herman

NEW BERLIN—Halstead, H. J.

NEW BRIGITON—(See New York City, Borough of Richmond)

NEWBURGH—Atlas Roofing Co. (Slate, Metal & Tile)
Fletcher, Henry, 135 B'way
Hastings, Jas., 162 B'way
Kernahan, Robert
Kling, Thos., 476 B'way
Newburgh Cornice Works (J. Farber, Prop.) (Slate, Metal & Gravel)
Pickens, A. H., 130 Water
Shannon & Co. (Slate, Tile & Metal), 107 Liberty

NEW PALTZ—Elting, Jno.
Hasbrouck & Welsmiller

NEW ROCHELLE—Kennedy, D. J.
McGovern & Klerschoff
Minnaugh, James

NEW YORK CITY. Borough of Brooklyn.

BROOKLYN—Ahern, Andrew W., 36th nr Cropsey av
Almond, Daniel, 18th av nr Benson av
Alquist Roofing Co., 1233 67th
Anderson, Jno., 202 Sackett
Autenrieth, Edmund, 1166 Fulton
Beer, Max F., 1622 B'way
Behr, Henry, 618 3d av
Bennett, Hy., 505 De Kalb av
Berlin, Max, 285 Watkins
Biffi, Wm. T. (Comp.), 377 Prospect av
Biffi's Reliable Roofing (Comp.), 339 Flatbush av
Black, Thos. F., 682 Fulton
Blakeman, Aaron, W 3d nr Park pl
Blecher Bros., 49 Nostrand av
Block, Morris, Sutter av, nr Osborn
Boegeman, Hly. F., 4303 3d av
Boyd, James J., Jr., 235 55th
Bradford, F. W., Bay 19th nr Bath av
Branagan, T. J., 448 Gates av
Branagan, Wm., 2001 Nostrand av
Brandt, Eugene, 305 Hamburg av
Brooklyn Tinning Co., 386 Leonard
Buchanan's, A. Sons, 1587 Fulton
Buchwald, Reuben, 93 Tompkins av
Buell, C. S. (Comp.), 98 4th
Burger & Gohlke, 224 7th
Burke, E. J., 378 Myrtle av
Case & Terry, 2206 Church av
Cassidy, Juo., 107 Bay 13th
Chadwick, Wm., 9 Marion
Clark, Wm. F. Co., 315 4th av
Cleveland Co., 1769 Fulton
Clifford, Nell, 296 Court
Coal Tar Product Co. (Gravel, Slag, Composition), Smith & Creamer
Cohen, David, 1948 Fulton
Cohen, Henry (Comp.), 395 Rockaway av
Columbia Roofing Co., 1979 Fulton
Comins & Evans (Comp.), 45 Waverly av
Commonwealth Roofing Co. (Comp., Gravel, Slag & Tile), 49 Greenpt av & 45 Waverley av
Conley, William, 710 Coney Island av

Conley, William T., 177 7th av
Conlon, Francis J., 276 Court
Conroy, Jos. F., 5319 5th av
Craig & Brown, 413 20th
Craw, W. I. & Bro., 137 Stone av
Cullen, Jas., 93 Hamilton av
Curry & Co., 256 Flatbush av
Dadson, Arthur, 4518 3d av
Dalsley, David & Son, 35 De Kalb av
Davis, John, 170 Court
Dearing, Louis, 874 Myrtle av
Deboer, Hy. J., 52 Snyder av
Dietrick, Fred (Comp.), 1077 Grand
Dunnigan, Jas. A., 478 Court
Duryea & Halliday, 130 Franklin
Edwards, Wm. T., 540 5th av
Ehrhardt, Fred'k J., 75 Morgan av
Elkin, Louis, 224 Reid av
Empire City Roofing Co., 1079 Grand
Ernst, Geo. W., 528 Central av
Esperson, Wm. E., 143 Clermont av
Fausel, Emil, 2804 Fulton
Fausel, Geo., 420 Knickerbocker av
Feldman, Simon, 26 Moore
Fields, Jno. J., 305 Sackett
Flanagan, Thos. P., 4th av & 88th
Foos, Chas. & Son, 64 Stagg
Fox, George, 6904 3d av
Frey, John E., 114 Park av
Friedberg & Klein, 273 Division av
Friedman, A., 601 Myrtle av
Friedman, Henry, 1405 Myrtle av
Friedman, Ignatz, 615 B'way
Friedman, Leon, 651 Bushwick av
Friedman, Saml., 25 Reid av
Friedman, S. M. Co., 1295 Myrtle av
Fuchs, Aug., 313 Central av
Fuchs, Louis, 1267 Gates av
Galvanizing & Tinning Works, 249 Bush
Gartenberg, Morris, 426 6th av

GILMAN'S SNOW GUARD

103 Merrimac, Boston, Mass. (See adv. index, end of book)

Gogarty, M. J., 1529 Fulton
Gawanus Roofing Co., 337 Butler
Greenthaler, Christ, 860 De Kalb av
Guthy, Peter, 903 Herkimer
Haines, Archibald, 87 Fulton
Halpin, Jas., 936 De Kalb av
Hamilton, James, 326 Myrtle av
Hartmann, Geo. (Est. of), 544 Nostrand av
Hartmann, Victor, 689 Flushing av
Hartstein, Morris, 1398 Myrtle av
Hatfield, Geo. E. (Felt, Gravel, Asphalt, Slag & Metal), 314 Flushing av
Healy, H. E., 63 4th av
Healy, James F., 356 Bergen
Heiser, Francis C., 650 Gates
Helk, Gustave, 5405 5th av
Heller, Isaac, 117 Johnson av
Heller, Samuel, 1037 DeKalb av
Herschkowitz, Aaron, 832 Flushing av
Hilzinger, A. J., 1854 Fulton
Hindley & Pendleton, 59 Greenpoint av
Hochschwender & Leitzgen, 734 Coney Island av
Hoellerer, Jos., 91 Union av
Huckans, Jno., 317 7th av
Hughes, Henry, 85 Greenpoint
Jacobs, Adolph E., 98a Ralph av
Jerry, Max, 410 Keap
Karp, Max, 970 Flushing av
Kaufman & Finkelstein, 1706 Pitkins av
Keefer, J. P. & Co., 17 Gates av
Kelly, John, 83 Orange
Kestenbaum & Klein, 594 Myrtle av
Klefer, Harry, 73 Grant
Killeen, James, 425 3d av
Kirch, Chas. & Son (Slate), 107 Liberty
Kleinfield, M., 188 Hinsdale
Knaup Sheet Iron Works, 50 N 11th
Knickerbocker Roofing Co., 110 3d av
Koeppen, Helmuth, 190 G'point av
Kuhnla, August, 10 Lorimer
Kuhnla & Sons, 71 Hinsdale
Kurre, August, 283 5th av
Lebovitz & Stark, 529 Rockaway av
Lechner, Fred., 127 Troutman
Levens, Wm., 216 Miller av
Lyons, Jacob, 1646 Fulton
McFarlane, Geo., 458 De Kalb av
Magid, Louis, 391 Graham av
Mantel, Charles, 304 Bedford av
Mayer & Marquis, 121 Milford av
Meadon's, T. J. Sons, 51 Greenpoint av
Meeks, Jno., 371 Van Brunt
Menninger Bros., 45 Willoughby
Metropolitan Cornice & Skylight Works, 79 Metropolitan av
Mildner, Chas., 103 Walworth
Miller, Judah C., 472 Bergen
Mitchell, W. L., 145 Havemeyer

Moeller, Herman, 229 Atlantic av
 Morrison & Dempsey, 600 Coney Island av
 Muller, E. A. & Bro., 687 4th av
 Mullin, Thos., 269 Smith
 Murray, Jas. E. (Comp.), 169 Lorimer
 Musans, John, 5906 New Utrecht av
 N. Y. Roofing Co. (Gravel), 49 Greenpoint av
 Norris, Isaac & Son, 686 De Kalb av
 Norris, Thos., 975 Gates av
 O'Brien, Daniel I., 5804 5th av
 O'Crowley & O'Brien, 5510 3d av
 O'Neill, M. H. Roofing Co., 71 Douglass
 Olches, Albert G., 57 Bergen
 Ostergren, Saml. (Slate, etc.), 725 3d av
 Otto, Jno. M., 46 Maujer
 Pinsler, Edw., 921 Gates av
 Pinsler, Leon, 921 Gates av
 Pless, R. & Son, 188 Atlantic av
 Polatschek, Isaac, 117 Meeker av
 Prudhom, L. F., 190 Jerome
 Ray, Daisley & Co., 61 Fulton
 Ribman, Louis, 960 Gates av
 Roedelberger, Chris., 2736 Atlantic av
 Roediger, Chas. A., 842 Gates av
 Roth, Nathan, 927 De Kalb av
 Rueger, Chas. G., 293 Flatbush av
 Sargoy Bros., 36 S 4th
 Schar, Paul, 2273 Church av
 Schmalheiser, Sam'l, 827 Park av
 Schmidt, Geo., 641 Glenmore av
 Schnabel, Caspar (Slate & Metal), 1470
 Schneider, Jacob, 2020a Fulton Myrtle av
 Schneider, John, 220 Ondrduk av
 Schultzsman, Hy. V., 800 Wythe av
 Schwarty, Edw'd, 617 Grand
 Schwoerer & Co., 1105 Gates av
 Scully Bros., 457 Court
 Seaman, Alonzo, 532 Herkimer
 Seton, John, 78 Washington av
 Shipman, Henry, 472 Myrtle av
 Shute, Elijah M. (Slate), 657 Gates av
 Smith, Chas. W., 307 Sumner av
 Smith, Oscar, 1104 St. Johns pl
 Smukler, Elizabeth, 764 Gates av
 Spencer, Wm., 421 Myrtle av
 Stander, A., 621 De Kalb av
 Stanton, James J. (Gravel, etc.), 50 Franklin
 Steffens, C. & Son, 523 Liberty av
 Stenger, Andrew (Comp.), 247 Melrose
 Stoddard, Richard H., 489 3d av
 Stone, Malcolm, 121 Marion
 Studley & Ibbotson, 1070 B'way
 Sullivan, Hugh, 158 Park av
 Sutphin, Edwin J., 668 Manhattan av
 Swan, R. & S. T., 336 Broadway
 Sweeney, James (Comp.), 318 Park av
 Swift, Wm. H., 98 Park av
 Tanck, Edw., 34 Central av
 Thoma, Charles D., 398 Union
 Tolman, Chas., 8 Noll av
 Vanderhoof, Albert N. (Comp.), 1995 Fulton
 Vaughan & Pigott, 45 Snyder av
 Vincent, J. & T., 406 Gates av
 Voigt, A., 396 Keap
 Wachter Bros., 1318 Myrtle av
 Wallabout Roofing Co. (Comp.), 296 Flush-
 Wallace, John W. Co., 396 S 2d ing av
 Watts, H. P., 378 Grand
 Weinstein, Abraham, 703 De Kalb av
 Weiss, Adolph, 963 Myrtle av
 Weiss, C. A., 232 Knickerbocker av
 Welch, F. H., 761 Flatbush av
 Werbelowsky, David, 1402 B'way
 White, Frank, 220 Leonard
 White, Jas. Co., 448 Adelphi
 Whitley, John (Comp.), 215 Fulton
 Wilhelm, Hugo, 198 5th av
 Williams, John, 95 Cedar
 Wilson, George, 740 Leonard
 Wilson, Wm. T., 655 Dean
 Wright, Edgar E., 1195 Degraw

Bauman, Jos. & Son, 59 E 4th
 Baumann, Philip & Co., 178 Van Buren, Van
 Baumgarten, William, 733 2d av Nest
 Beattie, Andrew, 20 2d
 Bechter, Max, 643 W 42d
 Becker, John C. L. (Slate & Metal), 174 1
 87th

Beer & Hess (Slate & Metal), 223 W 35th
 Behringer, Emil, 45 Fulton
 Berglund, Charles & Son (Metal), 774 3d av
 Bickhardt, Andrew (Slate), Olin av, W'm's-
 Blauvelt, Thomas A., 2618 3d av bridge
 Blayer, C., 20 Bradhurst av
 Blechner, Albert, 725 Bergen av
 Blechner Bros., 43 1st av
 Bloom, Percy, 62 Cortlandt
 Bloomer, John P., 11 E 10th
 Blue & Queripel Co., 119 E 124th
 Bois Sheet Metal Works, 50 Vestry
 Borkel, John (Metal), 42 E Houston
 Bornstein Bros., 227 6th
 Bowsky, Leopold, 164 E 52d
 Brands, J., 993 Washington av
 Brandt Roofing & Sheet Metal Co., 496 E
 135th

Breivogel, George & Son (Slate & Metal),
 46 Rose

Burrows Metal Mfg. Co., 24 New Chambers
 Busch, Michael A., 3000 3d av
 Buse, Fred., 32 Old Slip
 Butler, Pierce (Slate), 258 Division
 Buttner, Henry (Comp.), 2555 3d av
 Callahan, Thos., 4024 3d av
 Cary, Robert F., 124 E 129th
 Casmento Roofing Co. (Comp. & Plastic
 Slate), 160 5th av
 Christiansen, Charles, 3 Coentia sl

CLASON SNOW GUARD

428 Kinsley av, Providence, R. I. (See
 adv. index, end of book)
 Coleman & Krause, 515 W 29th
 Comins & Evans (Comp.), 17 Battery pl
 Commonwealth Roofing Co. ("Ehret's"
 Slag, "Warren's Anchor Brand," Na-
 tional Asphalt & Gravel, Brick & Til-
 Roofing), 17 Battery pl
 Constructive Sheet Metal Works (Inc.), 860
 11th av
 Coot, John F. (Metal), 94 Greenwich av
 Corcoran Bros., 941 6th av
 Cunnion, Jas. & Son (Slate, Metal, etc.),
 112 Fulton

Curry, P. & Son, 374 W B'way
 Davidson, Manuel, 325 E 92d
 Davls Bros. (Slate), 545 E 148th
 Deegan, Edw. J., 4185 3d av
 Deutsch, Jacob, 18 Stanton
 Deutsch, Nathaniel, 230 W 82d
 Dexheimer, Henry, 305 W 123d
 Dexheimer, Matthews, 2478 8th av
 Diamond, Jacob & Son, 436 6th av
 Diamond, Moses S., 409 4th av
 Diamond, Samuel, 35 3d av
 Dickinson, Patk F., 587 Amsterdam av
 Dietze, Oscar, 242 E 80th
 Doctor, Emanuel, B'way c 125th
 Doerr, Peter, 1985 Broadway
 Drewitz, A. & Son, White Plains av c E
 225th, Williamsbridge

Dreyer, Gustav, 511 Grand
 Dunn, Lawrence J., 164 E 120th
 Eastern Granite Roofing Co., 2 Hudson
 Eckert, Wm. D. & Son (Metal), 401 W
 Edelman, Geo. P., 968 Home 41st
 Eisner, Adolph, 165 E 105th
 Empire Sheet Metal Works, 488 Cherry
 England, Richard & Son, 49 W 29th
 Eppinger's, Wm. Sons (Slate), 3615 3d av
 Estimating Bureau, 110 W 34th
 Essenwanger, Charles (Slate), 500 E 148th
 Evans, J. H., Webster av c 200th
 Expert Roofing Co., 211 5th
 Fall, Eben L., 20 Manhattan
 Farrell, Michael J., 100 E 12th
 Felner, Phillip, 712 9th av
 Feld, Clarence M., 608 E 161st
 Ferguson & Steinberg, 250 3d av
 Fine, Morris, 396 Broome
 Fitzsimons, M., 47 Beekman
 Fitzsimons, M. & Co. (Metal), 224 W 36th
 Flanagan, Anne (Metal), 396 4th av
 Fleming, Thos. F., 1855 Washington av
 Forman, Bernard, 193 Greenwich
 Freyberg, Otto (Metal), 2308 2d av
 Fried, David, 67 W 134th
 Fried, Isidor, 50 Fulton
 Frischlocker, Louis, 518 6th
 Furlong & Furlong, 459 E 135th
 Gehnrich, Herman, 69 Rutgers slip
 Genasco Roofing Co. (Comp.), 114 Liberty

Germania Roofing Co. (Comp., General), 26
 Gibbons, Jas. & Son, 412 West Sullivan
 Giegerich, Jno. M., 424 E 59th

GILMAN SNOW GUARD

105 Marlboro, Boston, Mass. (See adv. in-
 dex, end of book)

Ginger Skylight Co., 218 W 37th
 Glines, Geo. E. (Comp.), 136 W B'way
 Gnehm, Adolph, 213 E 55th
 Goldman, Bernard, 520 W 40th
 Goldman, Samuel, 200 E 99th
 Goldwasser, Max & P., 693 Columbus av
 Good, Wm. E., 186 9th av
 Graham, David S., 4216 Park av
 Greater New York Tin & Tar Roofing Co.,
 Greenhal, B., 13 E 134th 1440 Park av
 Gregory, Jas. G. (Metal), 125 W 40th
 Griffin Roofing Co. (Plastic Slate, etc.), 506
 W 26th

Griggs, Henry H. (Metal), 168 W 25th
 Guarantee Roofing Co., 59 E 4th
 Hainer, A. F., 593 E 133d
 Hagner, Julius, 771 2d av
 Hahn, August, 304 W 41st
 Hallet, John E. (Slate), 97 E 220th, Wms-
 bridge

Hamovitz, Abraham H., 385 10th av
 Hannan, John W., 4187 Park av
 Hanover, Martin H. & Son, 767 Amsterdam
 Harder, Albert, 86 W 126th av
 Harder, Alfred L., 407 Hudson
 Harlem Cornice & Roofing Co., 1960 Park av
 Harlem Roofing & Waterproofing Co.
 (Comp., etc.), 543 E 116th

Harris Roofing Co. (Comp.), 215 E 64th
 Harrison, David, 211 E 116th
 Harrison, Michael & Son (Slate, Metal &
 Tile), 216 E 52d

Harrison, Timothy & Son, 16 Franklin
 Hassig & Miller (Slate), 231 W 29th
 Hassler, Geo., 160 Eldridge
 Hayes, Charles, 1555 3d av
 Heller, Frank, 476 7th av
 Henschel, Chas. S., 203 E 15th
 Herz, David, 1439 3d av
 Hiltz, William H., 82 W 3d
 Hindley, Thomas & Son, 819 6th av
 Hintze, Julius E., 79 Malden la
 Hinz, Albert, 403 E 16th
 Hof, Henry, 583 3d av
 Hope, Andrew, 675 9th av
 Horner, Jos., 565 5th
 Hornstein & Schifter, 1898 1st av
 Hull, Grippen & Co., 308 3d av
 Hyland, Thos., 152 E 41st
 Israel, David, 787 8th av

Jacquelin, Jas. A., 113 Cedar
 Jaeger, Wm. J., 390 Hudson
 Jampol & Martz, 132 W Houston
 Jersey City Galvanizing Co., 112 John
 Kahn, Jonas, 1258 3d av
 Kalbert, A. & Son, 170 E 3d
 Kallman, Meyer, 1104 Lexington av
 Kamenstein, Myer, 394 Hudson
 Kane, Morton P., 726 Lexington av
 Kautzler, Charles, 618 E 154th
 Keane, W. A. & Co., 432 W 37th
 Keavey, Michael (Slate), 337 Hudson
 Kell, Francis K., 1170 Kelly
 Kesten, Morris, 648 6th av
 Kestenbaum, Wm., 1786 1st av
 Klentsch, John, 2346 Lorillard pl
 Klrk, Chas. H., 1109 Wash'n av
 Kohlmann, Hy., Theriot av, Van Nest
 Kolkman, Herman, 241 W 125th
 Koslinsky, Isidor, 1107 3d av
 Kramer, B., 1668 Park av
 Kramer, Morris (Metal), 569 3d av
 Kraushar, Henry, 209 Greenwich
 Kranth, Carl, 128 Greenwich av
 Kremer, S. A., 165 E 31st
 Kronman, Edw., 21 Catharine
 Kunkelhorn, Jos & Co., 8 Peck Slip
 Kuntzman, Andrew, 2398 B'way

Ladzin, Harry, 2754 B'way
 Laura, John & Co. (Slate & Comp.), 160
 5th av
 Leonard Sheet Metal Works (Slate, Tile &
 Metal), 127 E 23d
 Levy, Sam, 868 Union av
 Lipplatt, T. F., 589 Columbus av
 Loewe Bros., 304 E 116th
 Lunschloss, Edgar, 46 G'wich av
 Lupton's, David Sons Co. (Slate, Tile &
 Metal), 220 B'way

McDonough, John, 235 Spring
 McFarland, J. C. & Co. (Slate,
 Metal & Tile), 235 B'way. (See adv. in-
 dex, end of book)
 McGlade, Harry, 708 E 144th

Boroughs of Manhattan & Bronx

NEW YORK—Abbott's M. Sons, 137 8th av &
 636 Columbus av
 A. B. C. Roofing Co. (Plastic Slate, Tile,
 Brick, Slag & Gravel), 24 E 21st
 Abendroth & Stein, 39 Cortlandt
 Ackerman, John W., 413 W 24th
 Acme Roofing Co. (Comp.), 156 5th av
 Adler, Jos. A., 2067 Amsterdam av
 Aeolian Plastic Slate Roofing Co. (Comp. &
 Fire-Proof Plastic Slate), 163 W 23d
 Alexander, Max, 406 E 25th
 Am. Roofing & Paint Co. (General), 79 Mal-
 Anderson, Albin, 673 E 156th den la
 Apartment House Roofing Co., 1135 B'way
 Architectural Metal Works, 1192 2d av
 Aronstamm & Newman, 217 3d av
 Asphalt Ready Roofing Co. (Comp.), 136
 Bader, Geo., 501 W 36th Water
 Bailey & Co., 328 West

McHugh, M. & Son (Comp. & Slate), 509 W
McKeever, Timothy W., 595 S Boulevard
McLaughlin, John A., 204 Hester
Mager & Feldstein, David (Metal), 90 Division
Mahon Bros. (Slate & Metal), 1982 Park av
Malloy, Matthew, 178 E 85th
Manhattan Tin Roofing Co., 170 E 112th
Mantel, Charles & Son, 263 W Houston
Markey, J. J. & Frank P., 162 E 35th
Marshall & Co. (Slate), 281 E B'way
Martin, Alex. & Son (Comp.), 465 3d av
Martin, Anthony, 174 Lewis
Martin, D. K. Roofing & Mfg. Co. (Comu.),
May, Wm. M., 798 11th av 522 E 20th
Mayer Conrad, 40 Bond
Mayer, Louis, 169 2d
Mayer, Oscar, 27 Fulton
Meade Roofing & Cornice Co. (Slate, Tile,
Metal), 156 5th av
Meister & Blayer, 144th ur Lenox av
Mica Roofing Co. (Comp.), 17 Battery pl
Miller's, John Sons, 440 W 54th
Mitchell & Co., 45 Grove
Moore, Thomas, 1981 Amsterdam av
Moore, Thomas, 189 E 64th
Moritz, Isaac, 1192 2d av
Morrison, Richard H., 1231 3d av
Morrow, John (Slate & Metal), 225 W 50th
Mufson, Morris, 115 Norfolk
Muller, George H., 1071 Home
Muller, R. & O., 624 E 150th
Muller, Samuel (Slate), 566 11th av
Murphy, George M. (Slate & Metal), 43 New
Munsgrove, E. F., 507 W 45th Chambers
Mnskah, G. H., Walton av c 182d
Nell, John (Slate & Metal), 434 W 17th
Neuchatel Asphalt Co. (Ltd.) (Asphalt &
Tile), 265 B'way
Neumann, Louis (estate of), 387 3d av
New, T. Construction Co. (Comp., Brick,
Gravel, Metal & Tile), 520 W 29th
New York Roofing Co. (Comp.), 17 Battery
pl & 512 E 23d
New York Sheet Metal Works (Slate &
Metal), 515 W 29th
Ney, Edw. Co., 332 E 48th
Nicholson & Galloway (Slate), 644 Hudson
Nichthaus & Levy, 96 Beekman
Niczky Bros., 618 11th av
O'Brien, D. J., 347 W 48th
O'Brien, Humphrey S., 920 6th av
O'Crowley, Michael F., 26 Ann
Olinsky Bros., 164 Madison
Perske, Francis, 439 E 92d
Pfeifer Bros., 473 G'wich
Phoenix Guarantee Roofing Co., 320 E 9th
Plumhoff, D. J., 215 E 29th
Polatschek, Leopold, 405 W 48th
Poll, Michael, 897 3d av
Preusser, John (Metal), 302 W 122d
Quinn, Geo. F., 396 4th av
Raab & Wolfson, 203 E 15th
Rahm, Marcus, 303 E 83d
Rea, Andrew L., 1026 Westchester av
Regneri, Bartholomew, 157 E 84th
Reiss, H. E., 130 E 7th
Reul, Matthew, 366 W 50th
Rice, Barth J. (Slate, Tile & Metal), 578
W 130th
Rode, Chas. H., 588 Amsterdam av
Roof Maintenance Co. (Comp. & Metal),
55 E 124th
Rosenberg, Adolph, 512 E 17th
Roth, Max, 26 Av C
Rudman, Charles, 59 Fulton
Sacks, Hyman, 1487 2d av
Saron, D., 2164 Madison av
Saron, Jacob, 2363 3d av
Sannanders, Walter D., 3277 3d av
Scherrer, Conrad (Metal), 448 7th av
Schery, Nicholas, 206 E 85th
Schuler, Charles (Slate), 15 Stuyvesant
Schweikert & Gelger, 832 3d av
Schwoerer, Anthony & Sons, 530 E 80th
Seidenberg, J. M., 337 E 34th
Seng, Fred., 61 E 125th
Seitelbach, Max, 364 3d av
Serrall Contracting Co. (Roofing & Concrete
Construction), 120 Liberty
Sheperd Sheet Metal Co., 133d c Park av
Sheeran, J. E., 121 E 10th
Sherwood Bros., 1021 3d av
Shiller, Frank, 224 W 36th
Shipman, Julius (Metal), 771 9th av
Silverman, Samuel, 200 E 88th
Simpson, I. H., 286 Amsterdam av
Simpson, Jas. & Son, 848 Gerard av
Smith, George (Metal), 411 2d av
Smith & Dorsett Co. (Slate, Tile & Metal),
405 E 47th
Sommerfeld & Riesner, 325 W 38th
Southern Roofing & Repair Co., 147 E 23d

Standard Paint Co. (Comp. & Rnberoid),
Star Roofing Co., 17 State 100 William
Star Roofing & Construction Co. (Comp.),
506 W 26th
Stein, E. & Mandel, 437 Lexington av
Sturman, Abraham, 228 Division
Stiefel, Gustav, 177 E 75th
Stirrup, John W., 82 Church
Taylor, N. & G. Co., 1123 B'way
Thompson, Duncan, 78 Av D
Truchinsky, Jacob, 233 Av A
Tuttle Roofing Co. (Brick, Tile, Gravel &
Slag), 522 E 20th
Tyler, Frank J. (Metal), 218 8th av
Unger, F. J., 83 1st av
United Roofing Co. (Flexible Cement Roof-
ing), 211 E 29th
Vincent, W. E. D., 133 E 118th
Vogt, Geo. J., 312 E 60th
Walker, Wm. T. (Slate), 3357 3d av
Walker & Chambers, 50 E 20th
Walther, Max, 796 E 142d
Warren-Ehret Co. (Comp.), 17 Battery pl
Weber & Homberg, 345 E 9th
Weinberg, Herman, 1648 Madison av
Westegren, M. F. (Slate), 435 E 144th
Whitney, Frank, 536 W 125th
Wilchinsky, Herman, 153 E B'way
Wildman, Jos., 150 Columbus av
Wills, William H., 111 E 27th
Wilson, Elias, 221 E 59th
Winter, Jacob Co., 712 Lexington av
Winters, Charles, 626 Washington
Wolff, Chas., 112 Liberty
Wynn, M. F. & Co. (Asphalt, Comp.
Gravel, Slag, Slate, Tile, etc.), 409 E 24th
Zaltz, Anton, 309 W 42d
Zawar, William, 339 E 9th
Ziegler, Jacob, 211 5th

Borough of Queens.

BAY SIDE—Robertson, F. B.
CORONA—Eckhardt, Herman
Glickman, M. & Sous
Hartman, Charles
ELMHURST—Langstaff, C. R.
FLUSHING—Anderson, John A.
Anderson, John & Son
Lewis Bros.
Perpall, E. A. & Son
JAMAICA—Lewis, James T.
Wooley, Charles H. & Bro.
LONG ISLAND CITY—Anderson, George, 61
Forrest, Wm. (Tin & Gravel) Camelia
Hoe, James
Hughes, Henry A., 85 Greenpoint av
Jarvis, Edward
Munder, Ang., 305 Freeman av
Petry, John W., 63 Vernon av
Recknagel, Arthur, 414 Steinway av
Ridder, Fredk. W., 123 Newtown av
Turner Bros., 120 Jackson av
Wedmayer, Fredk.
MASPETH—Ingis Bros.
Quirin, Frank
Woelfel, Louis H.
METROPOLITAN—Seitz, Louis, Metropolitan
ZONE PARK—Lissner, A. av nr Collins av
RICHMOND HILL—Banks, Rich. M.
Barkentien, August
Menz, Felix
WHITESTONE—Blum, Samuel
WOODSIDE—Lievendag, Adolph

Borough of Richmond.

REAT KILLS—Brower, H. S.
LINOLEUMVILLE—Rosner, John
MARINER HARBOR—Lorenzen, Peter E.
NEW BRIGHTON—Barnes, Wm.
Everitt, Geo. Wm.
Hediger, Rudolph
Johnson, James O.
PORT RICHMOND—Rauscher, Frederick
Watters, John
ROSEBANK—Fleming, John
O'Brien, T., Maryland av, c Thomp. av
Sinnott, Thos. F.
Zorn, A. D.
ROSSVILLE—Burgher, Jno. S.
STAPLETON—Greeb, M., 115 Canal
Lindemeyer, Wm. J.
Schlld, H., Jr.
COMPKINSVILLE—Ard, Philip
Snyder, James
Wight, Herman
COTTENVILLE—Gnyon, H. A.
Sevenhaar, Emil (Slate & Metal), 64 Main
VEST NEW BRIGHTON—Clark & Morton
Henderson, R. K.
(END OF NEW YORK CITY)

NEW YORK MILLS—Hastings, M. E. & Son
NIAGARA FALLS—Burlison Hardware Co.
Campbell, George H.
Colgan, Jos.
Leggett, Albert R.
Machwirth Bros. Co. (Slate, Metal, Tile,
Asphalt & Gravel)
Oliver, F. W. Co. (Slate & Comp.)
Snyder-Gillett Contracting Co.
Watson, J. & Son
NORTH CREEK—Pereau, L.
NORTHPORT—Cross, Thos. H.
NORTH TONAWANDA—Knapp-Cramer Hard-
Ware Co.
Tuck, R. L. Co.
NORTHVILLE—Allen & Palmer
NORWICH—Burchard Bros.
Burford, Wm. G. (Slate)
Latham, C. H.
NYACK—Ernst & Bro.
Gates, George
Wyman, George R. & Son
OGDENSBURG—Barr, Jno.
Bowman, Jas. S.
Bowman, Robt.
Britton, W. D.
Hackett, P. Hdw. Co.
Rapin, Frank & Co. (Est. of)
Skelth, Thos.
Skelly, Thos. F.
OLEAN—Pierce, O. W.
ONEIDA—Harris, Wales & Co.
Lye, Norman
Millsbaugh, W. H.
Tooker, O. P.
ONEONTA—Rowell, Geo. W. (Slate & Metal)
Stevens & Baker
Townsend, L. H. & C. D.
ORISKANY—Harrington, P. J.
OSSINING—Barlow & Co.
Khuns, Edward
Ramage, Thomas
Williams, Cornelius P.
Young, A. L.
OSWEGO—Blair, L. F.
Keefe Bros.
Lieb & Son
McCaffrey, Joseph
OSWEGO FALLS—(See Fulton)
OTISVILLE—Van Duser, J.
OWEGO—Adams, H. B. & Sons
Houk, J. S.
Stanbrough, J. B.
OXFORD—Burchard Bros.
Titus, B.
OYSTER BAY—Baldwin, Thos. E. (Slate, etc.)
Hutchinson, E. K. (Slate)
Waldron, E. P.
PARISH—Church, F. A.
PATCHOQUE—Gordon, F. E.
Overton, L. M.
PAUL SMITHS—Smith, Paul & Sons
PAWLING—Gibney, Geo. W.
Merwin, F. S.
PEEKSKILL—Durrin Bros.
Foster & Son
Jordan, Warren
Smith, Jno., Jr. (Slate, Gravel & Tar)
Wessells, Wilber F., 113 N Division
Wightman, Andrew (Slate & Metal)
PERRY—Olin & Grieve
PERRYSBURG—Warren, Henry
PHELPS—Hibbard, E. A. & Son
Langdon, Geo. V.
White, Geo. W.
PHILMONT—Carney, M. (Est. of)

When writing to firms
whose names appear
in this book please
mention
HENDRICKS'
COMMERCIAL
REGISTER.

PIERMONT—Auryansen & Scheinler
 PITTSFORD—Hegendorfer, Fred
 PLATTSBURG—Cavanaugh, James, 25 Peru
 Costello, Thos., 96 Margaret
 Faro, N. (Slate)
 Webb, Geo. N., 15 Bridge
 PLEASANT VALLEY—Lasher, F. P. (Slate & Metal)
 PORT CHESTER—Dold, Frederick, Jr. (Tin & Metal)
 Siltz, Geo. W. (Gravel & Tin)
 PORT HENRY—Breaduer, J. T.
 Hogau, Michael
 PORT JEFFERSON—Davis & Co. (Slate & Metal)
 Lawrence, John H.
 Leonard, F. J.
 Smith, G. H. (Slate & Metal)
 PORT JERVIS—Driller, Frank
 Gordon & Malven Co.
 McDouald, S. G.
 Peck, Chas. I.
 Robinson, T. L.
 Swlutou & Co.
 POUGHKEEPSIE—Adrlance, Peter & Son (Slate & Metal), 393 Main
 Aldrich, Elbert (Slate, Tile, Metal & Asphalt), 391 Mill
 Briggs, G. H. & Son, 393 Main
 Buechler, Mrs. Phoebe R.
 Cowee, Warren G. (Slate), 30 Mansion
 Miller, Frank, 131 Union
 Ritter, Wm. H., 141 Malu
 RAVENA—Strevell & De Friest
 RED HOOK—Curtis & Van de Bogart (Slate, Tile & Metal)
 RENSSELAER—Clark, Jas.
 Fowler, S. A., 871 B'way
 Wilson, R. I.
 RHINEBECK—Rosenkrantz, L.
 Smillie, Harry & Co.
 RICHMONDVILLE—Bernstein, Edw.
 RIVERHEAD—Buice, Chas. E.
 Corwin, C. L.
 ROCHESTER—Braunstein, Max, 153½ Jefferson av
 Bricker, H. J., 420½ Monroe av
 Calder, Robt., 86 Exchange
 Cohen, Joseph, 602 Lake av
 Cole, J. Stewart, 12 Arcade
 Close, C. L. & Co., 86 Reynolds
 Dorschel, Geo., 142 Chatham
 Dupre, Wm. J., 679 South av
 Fricker, Jno. (Copper & Tin), 10 Ely
 Geddes, Joseph, 15 Market
 Gross, Sigmund, 171 Joseph
 Heeks, John, 83 Clifford
 Hlson, Cornelius J., 174 Monroe av
 Horn, Frank J., 149 Maple
 Howe, S. B., 36 Atlantic av
 Irwin & Koerner, 10 Market
 Johns, Franklin, Jr., 73 Walnut
 Keller, Wm., 745 Clinton av, N
 Knowles, John W. (Gravel, Tin & Slate), 50 Franklin
 Kurlanski, Max, 202 Joseph av
 Lennon, Michael J., 289 St. Paul
 McAnally, Nicholas, 12 Cortland
 McConnell, J. S. (Slate, Metal, etc.), 279 Mill
 McCormick, Wm. A., 520 State
 Mayer, Lawrence V., 341 North
 Patterson, Robt., 183 Front
 Pritchard, M. L., 179 main, W
 Ratt & Smith, 40 Stone
 Richards, Chester F., 177 West av
 Richer, J. Henry, 9 Favor
 Riley, Wm., 146 Clinton av, N
 Robinson, Wm. (Slate & Gravel), 73 Exchange
 Rochester Non-Rust Tinware Co., 85 Allen
 Rochester Roofing & Heating Co. (Tin, Felt, Gravel & Slate), 35 Ambrose
 Rock Asphalt Pavement Co. (Asphalt), 279 South av
 Rodenbeck, C. F., 388 South av
 Roessel & Schoenemann, 382 St. Paul
 Rohr, William, 276 Central pk
 Sawens, Geo. M. & Co., 193 State
 Schmanke, Wm. F., 362 Hudson av
 Schultz, Chas. M., 672 Clinton av, N
 Selhig, Martin L., 44 Grape
 Siddons, Jno. Co. (Slate, Metal, Tile & Gravel), 61 to 65 N Water
 Stierly, E. & R., 440 Main, E
 Strauss, Leopold, 533 Joseph av
 Turner, T., 381 State
 Warren Chemical & Mfg. Co., 49 West av
 Young & Harrington, 173 South av
 ROCKVILLE CENTER—Cock, W. R.
 McCarten, E. E.
 Pettit, Frank
 ROME—Conley, Jas.
 McCuaig, Martin & Jones
 McLean, Jas. H.
 Relyea & Rockwood
 Russell & Waller
 Sherman, H. B.
 Smith, Geo. S.
 Townsend's, J. Sons
 Tyler, C. Edwin

RONDOUT—(See Kingston.)
 ROSENDALE—Bannon, L. F.
 ROSLYN—Burrowes, Robert (Slate & Metal)
 Titus, Willett (Slate & Metal)
 ROUSES POINT—Chilton, George & Co.
 SAG HARBOR—Moutcaim, C. H.
 Youngs, D. E.
 ST. JOHNSVILLE—McRae & Son
 SALAMANCA—Andrew, J. A. & Son
 McCann, Hubbel & Co.
 SALEM—Baker, G. W. & Son
 SALISBURY MILLS—Dusenbury, Z. D. W.
 SANDY CREEK—Colony, C. W.
 Jones, L. J.
 SANDY HILL—Parks, S. H.
 Sherrill, Geo.
 SARANAC LAKE—Adirondack Hdw. Co.
 SARATOGA SPRINGS—Towne Hardware Co., 430 B'way
 SAUGERTIES—Hildebrandt, F. A.
 Lamb, Daniel
 Smith, Philip C.
 SAYVILLE—Jedicka Bros.
 SCHAGHTICOKE—Waldron, Wm.
 SCHENECTADY—Burtiss, Albert R. & Son, 152 Jay
 Case, L. & Co., 414 Warren
 Clute, W. S., 16 Central Arcade
 Dakin, John H., 512 Liberty
 McDonald, Benj. J.
 MacGregor, Thos. F. (Slate & Metal), 135 Jay
 Marsh & Marsh
 Peters & Borden, 224 State
 Schwilk, Carl W., 26 S Centre
 Vroomau's, J. V. Sons, 138 State
 SCUYLerville—McRae, G. S. & Co.
 Washburn, M. V. B.
 SEA CLIFF—Koop, Jno. & Sons
 SENECA FALLS—Story & Strong
 Waller, George A.
 SHARON SPRINGS—Klinkhart, Geo.
 SHELTER ISLAND HEIGHTS—Harris, C. S. (Slate, Comp., etc.)
 SHERMAN—Sperry, E. & Son
 SIDNEY—Davis, Jas. E.
 SILVER CREEK—Shofner, Geo. H.
 SINCLAIRVILLE—Reed, R. & Co.
 SKANEATELES—Bench, J. & Son
 Shotwell, Tucker & McGinn Co.
 SOUTHAMPTON—Cameron, A.
 Hammond, E. E.
 SOUTHDOLD—Macomber, B. F.
 SPENCERPORT—Spencer, F. W.
 SPRINGVALLEY—Ruppel Bros.
 STAMFORD—Kelly, E. L.
 Lawrence, H. C.
 Maynard & Elliott
 STAPLETON—(See New York City, Borough of Richmond)
 STILLWATER—Haight, Silas
 Hunter, E. B.
 STONY POINT—Springsteen, D. & W.
 SUFFERN—Beers, Geo. A.
 SYRACUSE—Blant, Arthur C., 117 Oak
 Blant, J. A., 227 James
 Bradford & Dcruchie, 439 E Water
 Carey, Philip Mfg. Co., 142 N Warren
 Carroll, Patrick, 405 S State
 Cashman & McCarthy (Slate, Metal & Tile), 372 W Fayette
 Central City Roofing Co. (Comp. & Slate), 430 Canal
 Curran, Jas. (Slate & Metal), 213 N Franklin
 Gooley, W. F., 1911 W Fayette
 Griffing, T. Wm., 123 Loomis av
 Haun, J. G., 813 Park
 Heaphy, Dennis J., 133 W Water
 Heftie, Jno., 1112 S Geddes
 Kelley, Edmund, 1701 W Lafayette
 Lacy, Joseph, 103 N Warren
 Lapham, Jno., 235 South av
 Lyons, R. C., 706 Grape
 McCarthy, Jno. J., 511 S West
 Mudford, C. S., 822½ S Salina
 Paulus, Philip, 319 N Salina
 Rolle, August, 720 Butternut
 Schemel, Geo. C., 425 W Fayette
 Schreyer, Jno., 1110 Butternut
 Simmons, Theodore, 120 S State
 Smith, Willis B., 301 Grand av
 Talbott, Thos. & Son (Slate, Tile, Asphalt & Gravel), 240 W Water
 Wallace, E. F., 1010 S State
 Welch, Jno., 616 Burnet av
 Zimmerman, Julius, 16 New Butternut
 TARRYTOWN—Curtiss, C. H. & Co.
 Kuntz, H. L.
 TICONDEROGA—Bascom, D. C.
 Brust, F. L.
 Lamson, W. H. & Son
 TOMPKINSVILLE—(See New York City, Borough of Richmond)
 TONAWANDA—Ernst, A. H.
 Koenig, H. B. & Co.
 Krauss, C. F.
 National Roofing Co. (All Kinds)

TOTTENVILLE—(See New York City, Borough of Richmond)
 TROY—Caswell, H. J., 621 2d av
 Cole, Geo. H. & Son, 229 River
 Doherty, Michael, 25 Ingalls av
 Everest, Albert S., 584 2d av
 Harper, Thos. K., 565 Congress
 Hawkus, Jno. E. & Son, 14 12th, Lans.
 Joyce, Humphrey, 342 Congress
 Kennedy, James, 402 River
 Kennedy, James F., 508 River
 Knaupp, Jno. F. (Slate & Metal), 672 Pawling
 Lehmann, Adolph, 225 River
 Loebke, Chas. A., 412 5th av, Lans.
 Loebke, W., 422 River
 McCracken, Wm. R., 412 5th av, Lans.
 Manogue, Edward Co. (Slate, Gravel, Metal & Asbestos), ft of Graud
 Millett, M. J., 329 4th
 O'Connor, John, 328 2d
 Powers, J. J., 310 2d
 Sasse, Robert W., 842 River
 Shernau, Geo. S., cor 3d & Division
 Shernau, Wm. A., 309 River
 Wheeler, Mrs. Eliza, 414 1-2 River
 Whitaker, James A., 11 19th, Lans.
 Young & Co., 618 2d av, Lans.
 TUCKAHOE—Ruhly, Wm.
 TURNER—Sturr, Daniel
 TUXEDO PARK—Secor, Chas. H.
 Vail, Wm.
 UTICA—Anglehow, Henry, 28 Belmont av
 Coffey, John J., 95 Taylor av
 Commonwealth Roofing Co., Clarendon bldg
 Geirsbach, Mrs. Caroline
 Genasco Roofing Co., 131 Broad
 Goodenow, A. L., 54 John
 Henry & Williams, 130 Court
 Jacobs, S. F. & Son, 117 Court
 Jones, Wm. E. & Sons, 5 Union
 McLean & Co., 131 South
 Metal Roofing & Cornice Co. (Slate, Metal & Gravel), 71 Main
 Parker, Edw. W., 26 Pearl
 Shaughnessy Bros., 143 Genesee
 Stuber, Jacob, 60 Albany
 Weiss, Adam (Asphalt, etc.), 366 Seymour av
 Werthman, F. T. Eagle & Elm
 Wurster, John, 383 Whitesboro
 VALLEY FALLS—Clark & Parker
 Parker, J. W.
 WALDEN—Wade, A. K.
 WALWORTH—Petty, Isaac & Co.
 WARRENSBURG—Hunt, John G.
 Mixer, F. R.
 WARWICK—Moutross, A. W.
 Ogden & Pelton
 WASHINGTONVILLE—Hull, C. W.
 WASSAIC—Williams, Wm.
 WATERFORD—Barnfather, F. B. & Co.
 WATERLOO—Nallos, J.
 Nugent & Co.
 Van Riper, Theodore
 WATERTOWN—Bradley, T. H. (Tar & Felt)
 Hyde Bros., 29 Public sq
 Irvin, E. B. (Asphalt & Gravel)
 Spratt, J. W., 3 Sterling
 WATERVILLE—Barr, R. M. & Son
 Bourke, M. R.
 McLean, W. G. & Co.
 WATERVLIET—Campbell, Fred'k, 2019 B'way
 Gray, Vivian
 Hamil, James, 1605 Broadway
 Rivers, William
 Sexton, Samuel, 202 23d
 WATKINS—Durland, L. H. Son & Co. (Slate & Metal)
 WAVERLY—Mixer, E. D.
 WEEDSPORT—Burritt, O. W. & Bro.
 Harmon, A. B.
 WELLSVILLE—Hoyt Hdw. Co.
 Vincent, C. F.
 WESTFIELD—Carpenter, E. F.
 WEST NEW BRIGHTON—(See New York City, Borough of Richmond)
 WESTPORT—Eastman, H. E.
 WHITEHALL—Willard & Marshall
 WHITE PLAINS—Fowler & Sellars
 Sherwood, C. P.
 Quimby, G. W.
 Schwaner, F. J.
 WHITESTONE—(See New York City, Borough of Queens)
 WILLINK—Sommer & Co.
 WILLSBORO—Hudson, Wm.
 WILSON—Perrigo, G. W.
 WOODHAVEN—(See New York City, Borough of Queens)
 WOODMERE—Baldwin, Gilbert
 WORCESTER—Eltapence & Co.
 Wilcox & Callendar
 YONKERS—Acker, D. & Co., 50 N B'way
 Bailey, George A., 52 N B'way
 Donnelly, James, 175 Yonkers av
 Fitzgerald, D., 203 New Main
 Humphrey & Bell, 40 Nepperhan
 McVicar, Thos. (Slate & Metal), 30 Dock

McVicar, Wm. H. (Slate & Metal), 83 Woodworth av
 Pawson, J. E., ft Wells av
 Reade, Cabot S., 47 Ashburton av
 Westchester Metal Works, 46 Riverdale av
 Wheelock, M. R. & Son, 28 Riverdale av

NORTH CAROLINA.

ASHEVILLE—Boyce, W. A. (Slate & Metal)
 McLean, A. L.
 BURLINGTON—Thomas, S. S. & Sons
 CHARLOTTE—Garabaldi, T.
 McCausland, J. N. & Co. (Slate & Metal)
 Ray, G. G. & Co.
 Shuman, C. F.
 CONCORD—Hill, W. J.
 DURHAM—Barbee, Charles E.
 Lougee, W. J.
 Taylor & Phipps
 ELIZABETH CITY—Hill, H. O.
 FAYETTEVILLE—McMillen Bros.
 GOLDSBORO—Bryan, T. C.
 Croom, C. E.
 Hobbs & Pike
 Slaughter, J. Co.
 GREENSBORO—Bond, A. Y.
 Pleasant, W. R.
 Wharton, J. W.
 Yates, J. F.
 HENDERSON—Carter, W. T.
 HIGH POINT—Gordy, McDaniel
 Ward, J. R. Supply Co.
 KINSTON—Isler, S. H., Jr.
 Moore, E. O.
 Strickland, Joseph
 LUMBERTON—Webster, H. G.
 MARION—Horn, J. E.
 MURFREESBORO—Evans & Bro.
 NEWBERN—Odour, Elisha
 Parker, S. B.
 RALEIGH—Briggs, Thos. H. & Sons
 Clark, M. S. & Co.
 Lumsden Bros.
 SALISBURY—Beaver, J. M.
 Hauser, R. A.
 STATESVILLE—Frazier, T. W.
 Nicholson, J. W.
 WILMINGTON—Craig, Joseph F.
 Holden, H. K.
 Smith, S. L. & Son
 Toler, T. S. & Son
 WILSON—Dildy & Agnew
 Hagan, Robert E.
 WINSTON SALEM—Blum, P. W.
 Brickenstein, L. B. (Slate, Metal & Gravel)
 Morgan & Cuthrell

NORTH DAKOTA.

BISMARCK—Grambs & Wolbert (Tin & Comp.)
 EDMORE—Braaten, Hans
 FARGO—Davies, F. E.
 Harrington, Hubert
 GRAND FORKS—Barnes & Nuss Co.
 JAMESTOWN—Scott, R. L. & Co.
 Thornhill, E. B.
 LISBON—Cole, J. S.
 Mott, Chas. H.
 WAHPETON—Jamieson, W. W.
 Schultz, O. H.

OHIO.

ADA—Gilbert, W. T.
 Riddle, J. C.
 ADELPHI—Binkley, Cary L.
 AKRON—Akers & Co., 1084 E Market
 Akers & Harpham (Slate, Gravel & Metal), 200 E Mill
 Akron Hardware & Spouting Co., 385 E Exchange
 Akron Roofing Co. (Slate, Metal & Tile), 104
 Akron Roofing Tile Co., E Exchange
 Akron Tin & Furnace Co., 1503 S Main
 Blumenstein, George
 Bowers, T. A.
 Corey Bros.
 Dietz & Haberkost
 Gross, John
 Harter & Milar
 Kasch Roofing Co. (Slate, Tile, Metal & Kidder Hardware Co. Comp.)
 Knapp, John G.
 Lind, L. M. & Sons (Slate, Felt & Metal)
 May & Fleberger
 Miller, Elmira E.
 Neff Bros.
 Pettit Pros. & McDowell
 Popovitz, George
 Pouchot, Hunsicker Co. (Slate & Metal)
 Rohrbacker & Allen 66 S Howard

Rutherford, J. & Son
 Scheppeler Stove & Tin Co.
 Summitt Roofing Co.
 ALLIANCE—Cassady, C. M.
 Howson & Co.
 Keyes, Hugh (Slate & Metal)
 Love, Casselman & Co. (Slate & Metal)
 Ruhl, George W.
 Sluss, M. (Slate)
 Smith, C.
 ASHLAND—Amhrose & McEntire
 Marks, F. R. (Slate & Metal)
 Pittinger, Jno. R.
 ASHTABULA—Beidler, A. M.
 Crosby Hardware Co.
 Dudley, W. E.
 Tingley, H. M.
 Van Tassell, Wm. & G. C.
 ATHENS—White, F. P.
 Wilson, C. M.
 AUBURN—Baikie, W. F.
 AUSTINBURG—McClure, J. J.
 BARBERTON—Hickox, W. R. & Co.
 Miller Roofing Co. (Slate, Tin & Iron)
 BARNESVILLE—Anderson & Douglas
 Graham, T. J.
 BASIL—Weaver, Jas. M.
 BATAVIA—Carter, T. D.
 Dustin, D. G. & Sons
 BELLAIRE—Kern, Andrew (Slate & Metal)
 Mahaffey & Menges
 Mahaffie Bros.
 Zweig, John
 BELLE CENTER—Oliphant, W. Gilbert
 BELLEFONTAINE—Doll & Whitcomb
 More, F. O. & Son (Slate, Metal & Comp.)
 Ogleshee, E. C.
 BELLEVUE—Decker, Roland B.
 BELLVILLE—Dougherty, J. M.
 BEREIA—Curtis, H. A.
 Elmore, Chas.
 Shumway, C. D.
 BERLIN—Hochstetler, E. J.
 Seeman, Wm.
 BETHEL—Armour, Jno. A.
 Davis & Hibbetts
 BEVERLY—Newlin, J. H.
 BLANCHESTER—Hampton & Scott
 BLUFFTON—Scheid, Theo. G.
 BOLIVAR—Lash, D. F.
 BOND HILL—Jenny, Wm. M.
 BOWERSTOWN—Boor & Hammlil
 BOWLING GREEN—Campbell & Collier
 Golt & Son
 BUCYRUS—Blair, E.
 Jolly Bros. (Slate & Metal)
 Miller, D. R.
 Picking, D. & Co. (Slate & Metal)
 Walther, F. A.
 CADIZ—Bryan, H. E. (Comp. & Gravel)
 Hughes & Milford
 Lee, B. S. (Comp. & Gravel)
 CAMBRIDGE—Brown, Jas. G.
 Burgess Mfg. Co.
 Cambridge Roofing Co. (Slate & Metal)
 Fornshell, B. M.
 Hartley, W. H. & Sons (Slate & Metal)
 McCord, James E.
 CANAL DOVER—Brucks & Adams (Slate & Metal)
 Myers Bros.
 Notter, E. A.
 Reeves Mfg. Co.
 Schneider & Thompson
 CANTON—Brubaker, J. H., 112 Cedar
 Buckius, W. H., 3115 W Tus.
 Cappel, H. W., 1214 W 5th
 Fife Bros. Co. (Gravel & Metal), 212 E 8th
 Groner, C. O., 714 E Tus.
 Gurantz, Fred, 919 S Cherry
 Keefanver, H. A., 739 Marion
 Lehr, Nicholas, 825 S Cleveland av
 Mallory, R. E. (Slate & Metal), 906 Spring
 Motz, L. S.
 Peter, W. C., 907 S Market
 Pfiffer & Whitmer, 210 E 5th
 Piper, F. R., 136 E 7th
 Reemsnyder, John A.
 Rex, Charles A., 337 E Tuscarawas
 Spangler Roofing Co., 312 Pine
 Taylor, Jackson
 Winkleman, J. W., 503 Mahoning
 Yost, L. P. D.
 CARTHAGE—Knapp, Frank M.
 CELINA—Feldheiser & Bryson
 McComb, Charles
 Nunzester Hardware Co.
 Spornhauer, Chas.
 CHAGRIN FALLS—Lines, W. H. & Sons
 CHARDON—Parks & Barker
 CHICAGO—Sennett, O. F. (Slate)
 CHILLICOTHE—Eherle, Jno. J.
 Kellhofer, Jno. (Slate & Metal), 75 N Paint
 McNellus, Wm. A. (Slate & Metal), 95 E 2d

CINCINNATI—Ahrens, Wm. F., 918 Mound
 American Felt Roofing Co. (Comp.), 220 Post Square
 Andler, Adam (Slate, Metal & Tile), Highland av & Stetson
 Arndt, Robt. L., 2650 Western av
 Avril, Ferd., 2871 Colerain av
 Beckman, Wm., 1543 Race
 Blum, Albert (Slate & Metal), 2837 Woodburn av
 Boesch, Victor P. & Son, 2432 Eastern av
 Brandis Bros. (Slate & Metal), 3109 Reading rd
 Brophy, John L. (Galvanized Iron), 25 W Canal
 Carey, Philip Mfg. Co., 405 Central av
 Cincinnati Roofing Co. (Asphalt & Gravel), 1518 Gest

CLASON SNOW GUARD

428 Kinsley av, Providence, R. I. (See adv. Index, end of book)
 Corryville Cornice & Roofing Co., 3205 Jeff'n av
 Curtis & Co. (Slate, Metal, Gravel, Asphalt, etc.), 216 Post sq
 Dawson, J. G., 409 Carlisle
 Dearking, Fred W. (Slate & Metal), 3822 Deck, G. H., 913 Vine
 Dirr, George L. & Son (Slate & Metal), 3631 Warsaw av
 Dnecker, Wm., 4144 Hamilton av
 Eble, Chas., 1802 Vine
 Eckel, Geo., 526 E Pearl
 Edwards Mfg. Co., Eggleston av c 5th
 Emmers Cornice Co., 1007 B'way
 Fahnie & Dietrich, 537 Oliver
 Farwick, Jno. H., 123 W Court
 Felix, John, 1332 Baymiller
 Felix, William, 1611 Western av
 Fogarty, Frank & Co., 332 E Pearl
 Forshee, W. E. & Co., 630 Union Tr. bldg
 Fox, Wm. H., 2450 Gilbert av
 Frank, Andrew, 900 State av
 Freund, Jacob Roofing Co. (Slate, Metal & Tile), Mitchell av & B. & O. S. W. Ry.
 Friedrich, Frank, 1912 Vine
 Fritsche, Wm., 2114 W 6th
 Germann, Alex. E., 619 College
 Getchell, S. D. Co. (Asphalt & Gravel), 1109 Gilbert av

GILMAN'S SNOW GUARD

103 Merrimac, Boston, Mass. (See adv. index, end of book)
 Gladen, Mrs. T., 637 E Pearl
 Globe Paint & Roofing Co., 232 W 8th
 Goering, William, 77 E McMillan av
 Goodling, Michael, 1824 Race
 Goosman, J. & Co., 1628 Race
 Grelwe, E. & Bro. (Slate & Metal), 1128 Grote, C. L., 2008 Madison rd
 Grueninger, Louis, S E c Court & Freeman
 Hader, Andreas, 3232 Harrison av
 Harford, M., 418 Butler
 Harkness & Towler (Asphalt, etc.), Thoms bldg
 Hauck, Michael (Slate & Metal), 14 E 13th
 Heatley, George, 3801 Eastern av
 Herbst, H. L., 1333 Linn
 Hoeitge, Fred, Jr., 1921 Gest
 Hyndman Steel Roofing Co., 320 E 2d
 Imbus, Henry, 417 W 5th
 Jansen, John F., 2140 Gilbert av
 Kearney, James T., 940 Linn
 Keller, L. E., 3811 Spring Grove av
 Kiechler Mfg. Co. (Metal & Slate), Linn, Armory av & Clinton
 Klinkenberg, O. A., 3443 Reading rd
 Kohmann, Charles (Slate & Metal), 1919 Central av
 Konsheim, Henry, 22 E University av
 Kopelent, Henry (Slate & Metal), 2723 Vine
 Korb, John P., 3203 Harrison av
 Kruckmeyer, L. Co., 1501 Vine
 Kuhlmann, George, 1115 Main
 Lalley, Michael, 216 Elm
 Lee, Thos. (Slate, Tin & Tile), 130 W 2d
 Lemon, W. A., 947 W 8th
 Leonard Bros., 1508 Chase av
 Lindemann, Aug. E. (Slate & Metal), 2620 Vine
 Loehr, W. H., 1603 Freeman av
 Loesch, Fred, 2138 Central av
 Loesch, W. F., 2943 Colerain av
 Markland, T. T., 3100 Woodburn av
 Meyer, Edw. & Co., Elm & Green
 Mudd Manufacturing Co.
 Neabrey, John H. (Slate & Metal), 637 W
 Noll, Geo. A., 1186 Harrison av
 Opp, F. & Son, 338 Poplar

Opp, John, 2148 W 6th
 Peal, Simon, 933 W Liberty
 Pfau Bros., 231 W 5th
 Plker, Samuel, 682 W 5th
 Pilger, J. S., 1507 Central av
 Porter Iron Roofing & Corrugating Co., 27 W
 Preston, Alfred, 2716 Alms pl Front
 Queen City Exhaust & Blow Pipe Co., 1732
 Reich, Joseph, 800 W 7th Central
 Rless, Wm. C., 30 E Court
 Roseboom, J. G., 746 Betts
 Sallie, Adolph, 522 W 5th
 Schmidt, Louis, 1215 Central av
 Schmelder, F. W., 418 E 2d
 Scholle, Chas. H., 2611 Cook
 Schultz, Henry, 1432 Sycamore
 Scott Roofing & Mfg. Co., 234 E Front
 Shaw & Stechow, 811 Central av
 Singleton, Ruffner & Co. (Asphalt & Gravel,
 etc.), 8th & Plum
 Smith, J. S. & Co., 612 W 5th
 Smurl, R. J., 308 E 5th
 Spatz, Wm. C. (Slate & Metal), c Powers &
 Tozzer
 Standard Roofing Co., 1662 Providence
 Stifel, John, 1816 Elm
 Sweeney, Jeremiah A. & Co., 829 W 5th
 Swift & Drees Cornice Co., 435 Reading rd
 Taylor, A. P., c Burnet av & Hickory
 Toon, H. W., 3484 Reading rd
 Verges, F. F. (Slate & Metal), 2543 Vine
 Weigel, John (Slate & Metal), 664 E Mc-
 Millan
 Weissenberger, Mrs. Geo. K. (Slate, Tile &
 Metal), 4004 Spring Grove av
 Wheeler, Otto B., 313 E 3d
 Wietlisbach, Alois, 1810 Linu
 Witt Cornice Co. (Slate, Tile & Metal), 8th
 & Broadway
 Witt & Brown (Slate, Metal & Tile), 215
 Wolf & Ort, 228 Post Square W 3d
 Wolpa, Louis, 573 W 6th
 Wuenker, H. F., 2441 Gilbert av
 Zoller, Fred., 1732 Central av
 Zoller, Louis, Jr., 1512 Harrison av
CIRCLEVILLE—Crist Bros. (Slate & Metal),
 Hoffman, Brown & Wilson (Slate & Metal)
 McMullen, G. J. & Son (Slate & Metal)
CLEVELAND—Auld & Conger Co., 942 Prospect
 Beck, William E., 1138 W 11th, N W
 Benedict, N. J. & Sons, 3519 St. Clair av,
 N E
 Brennan, T. J., 2913 Central av, S E
 Broz & Cerney, 4842 B'way
 Carey, Philip Mfg. Co., 123 Water
 Cater, E. U., 9604 Madison av, N W
 Chicago-Cleveland Car Roofing Co., Hickox
 Claudia, Joseph, 2674 E 67th bldg
 Cleveland Metal Roofing & Ceiling Co., 3105
 Detroit av
 Complete Mfg. Co., 1555 Columbus rd, N W
 Cooley, H. E., 2618 Detroit av, N W
 Drake & Wlers Co. (Asphalt, Car), 17
 Blackstone bldg
 Duffner, Gordian, 4216 Lorain av
 Dalley, Jesse V., 6312 Quincy
 Fetzner, M. & Sons, 3503 Central av, S E
 Forest City Roofing Co. (Comp.), 3235 Pros-
 Forrest, R. T., 7800 B'way, S E pect av
 Fuerst, J. E. & Co., 517 Huron rd, S E
 Garry Iron & Steel Co., Coe & Lake
 Gnuschke, Gustave F., 7001 Kinsman rd, SE
 Goehner, E. F., 6815 Clark av, S W
 Gorsuch, Thomas M. (Comp., etc.), 919
 Gould, Lee H. & Co., The Arcade James
 Green, A. A., 5911 Woodland av, S E
 Greenberg, Max, 3712 Scoville av, S E
 Guest, F. C., 5120 Lorain av
 Halter, Jacob, 2067 W 14th, S W
 Hippler, Albert, 7640 Lorain av
 Hogen, F. G. Co., 15 Craw av
 Holtz, Theo., 2011 Lorain av
 Huntington, Henry J. (Comp. & Slate), 1010
 Superior
 Huntington, H. & Son (Asphalt, Gravel,
 etc.), "The Arcade"
 Klefer, Frederick, 152 Hodge av
 Kleppel, William, 3515 E 93d
 Koherna Bros., 3640 E 49th
 Korner, C. J. & Co., 2911 E 34th, S E
 Koutney, F. P., 4703 B'way, S E
 Lockwood, Stephen A., 5368 St. Clair
 Mathels Bros., 2622 E 76th S E
 Mayer, Joseph, 2240 W 38th, S W
 Moore, A., 6907 Lexington av, N E
 Middlestead, Edw., 8619 Quincy av, S E
 Norton Bros. (Gravel), Cham of Com bldg
 Ohio Roofing Co. (Slate, Metal & Tile), 1477
 Euclid av
 Opre, Wm. M. (Slate & Metal), 8833 B'way
 Orkin Bros., 2808 Woodland av, S E
 Orth, Charles F., 2510 Barber av
 Parks, A. F., 2219 E 101st, S E
 Paul, Richard, 2427 E 79th

Potter, George J., 3621 Payne av, N E
 Pyleck, F. K., 6809 Central av & 1762 E
 43d, N E
 Redman, A., 5801 St. Clair av, N E
 Rendall & Miller, 1511 Cedar av
 Riester & Thesmacher Co., 1526 W 25th,
 Rostical, V. F., 3632 E 49th, S E N W
 Rothenberg, Henry, 3202 Scovill av, S E
 Rudolph & Son Co. (Slate, Gravel & Metal),
 35 Michigan
 Rutherford, Geo. A. Co. (Shingle & Felt),
 40 Sheriff
 Sanders, Nicholas, 2428 E 83d, S E
 Schadowsky, August, 3009 Vega av, S W
 Schlegel, Emil C. & Son, 4218 Bartlett ct
 Sheahan, Martin W., 1623 St. Clair
 Smith, W. E., 4701 Central av, S E
 Sommers, C. A., 2220 E 100th, S E
 Soros, Albert, 5514 Bridge av, N W
 Stran, C. W. (Slate & Metal), 1288 E 9th,
 S E
 Tietjen, John H. (Gravel), 3222 Clark av
 Tlapa, John & Co., 3806 Croton
 Towson, E. H. (Slate & Metal), 1057 1st av
 Vaudas, A. J., 3950 B'way, S E
 Walther, John, 1839 Central av
 Webe, John & Co., 3156 W 32d, S W
 Yahraus, John, 3803 B'way, S E
 Zellers, George & Co., 5803 Woodland av,
 S E
COLDWATER—Hoyng, J. F. S E
 Wapelhorst, Hy.
COLLEGE CORNER—Weldner, G. G.
COLLINWOOD—Collinwood Hdw. Co.
 Skinner & Richards Co.
COLUMBIANA—Beard, John
COLUMBUS—Achauer, A. L., 1135 N High
 Alter, A. & Co., 74 W Broad
 Alter, Ralph, 866 Parsons av
 Bishop, F. W. Co., 180 S High
 Blackwood, Green & Co., 624 N High
 Bohnert, J. P. (General), 1184 W Broad
 Bohnert, M. J., 1809 Parsons av
 Bradshaw, A. L., 207 E Long
 Buckeye Stamping Co., 183 E 3d av
 Calkins, W. R. & Sons, 752 E Long
 Capitol Asphalt Mastic Co. (Composition),
 310 Dublin av
 Columbus Roofing & Supply Co., 482 N High
 Consolidated Roofing Works (General),
 Spring cor Dennison av
 Cussins & Fearn, 653 W Broad
 Daeumler, Geo., 573 S High
 Ewers, Thos. (General), Spring & Dennison
 Hilliker, W. C., 38 N Washington av
 Hirschmann Bros., 411 S Pearl
 Ihrig, F. B., 511 N High
 Janeway Tin Co., 161 N Lazelle
 Kaefel, J. F., 306 E Main
 Kalser, Andw. (Slate & Metal), 890 N High
 Kaiser Bros., 123 E Chusnut
 Kerlins, Andw., 43 E Lynn
 Killets, J. F., 1151 N High
 Kling, H. N. (Slate & Metal), 974 N Broad
 Knell, Philip (Slate & Metal), 344 S 4th
 Knox, Jos. J. Lumber Co. (Ruberoide),
 Cleveland av & Buckingham
 Kromer, P. F. (General), 669 St. Clair av
 Lamb & Palmer, 62 E Prescott
 Learn & Brindle, Locust c Wall
 Lamneck, William E., 1135 Mt. Vernon av
 McCoy, J. L., 1245 N High
 Miller Bros., 560 S High
 Ochs, G. W. (Slate & Metal), 1114 E Main
 Palmer, Chas. J. (General), 75 W Lynn
 Pritchard, Dow, 323 Galloway av
 Reichenbach, J. B., 149 W 4th av
 Reichenbach, Henry, 892 E Main
 Reither, Edw. A., 839 S Wall
 Riddle & Son, 893 N High
 Root, Charles, 813 S High
 Schilling, John N. (Slate, Metal & Comp.),
 Schipper, Jno., 760 E Mound 193 N Grant
 Schoedinger, F. O. (Slate, Tile, etc.), 146 N
 Schwartz, Morris, 346 E Livingston av 3d
 Shaffer Roofing Co. (General), 431 W State
 Snyder, Geo. & Son (General), 163 N 9th
 South Side Lumber Co. (Ruberoide), 1929
 Spohn, Valentine, 177 S Pearl S High
 Stiles, S. T., 456 E Livingston av
 Vulcanite Paving & Construction Co., 1594
 Ward, L. F., 892 Mt. Vernon av Nell av
 Wiegand & Schumacher, 1184 W Broad
 Will, J. H., 323 Donaldson
 Zimmerer Bros., 641 S 3d
 Zipf, F. W., Jr., 632 Hamlet
CONNEAUT—Arthur, George T.
 Matson, C. F.
COSHOCOTON—Coe, Benj.
 Leffler, Mrs. A. M.
 Reed, E. R.
 Shrake, G. W.
 Wolford, C. S.
CRESTLINE—Holcker, R. & H. (Slate &
 Metal)

CUYAHOGA FALLS—Loomis, L. W. Hdw. Co.
 Walker, J. H.
DAMASCUS—Delzell, C. G.
 Dalzell, O. V.
DAYTON—Allen, J. & Son
 Baker, John R. (Tin & Slate), 631 W Wash-
 Boulie, John L., 22 S Williams ington
 Bretsch, A. (Slate & Metal), 126 E 5th
 Bussdicker, Fred. (Slate & Metal), 1619 E 3d
 Buvlinger, G. W. & E. E. (Slate, Metal &
 Tile), 327 E 3d
 Callahan, Henry (Slate & Metal), 23 W 2d
 Carroll, D. H., 1348 W 3d
 Conley, Jas. E. & Co. (Asphalt & Felt),
 15 N St. Clair
 Couch & Nicholas (Slate & Metal), 1528 W 3d
 Dayton Asphalt Roofing & Paving Co.
 (Asphalt), 16 S Canal
 Dayton Felt Roofing Co. (Felt, Pitch &
 Gravel), 601 E 5th
 Foley, Jesse T., Norwood av & Horace
 Fromm, O. F. (Iron, Tin & Slate), 401 N
 Main
 Gem City Felt Roofing Co., 1151 W 3d
 Hartman-Franz Co., 114 N St. Clair
 Hemberger & Vanbel (Tin & Slate), 850
 S Brown
 Hoersting & Holtmann (Iron), 1124 W 3d
 Jungclas Cornice & Furnace Works (Slate &
 Metal), 707 E 5th
 Kenney, Jno. R. (Slate & Tin), 253 S Wayne
 Kline, Jas. E. (Slate & Metal), 1430 S
 Wayne av
 McLardle, Chas. N. (Tin & Slate), 415 E
 Miller, Wm. E., 17 N Madison 5th
 Recher, M. C., 30 S Jeff
 Reese, Jno., 36 E 2d
 Rieck, H. F., 506 S Wayne av
 Santo, Herman (Tin & Slate), 293 S McClure
 Scott, Alfred M., 2020 E 3d
 Shonk, David N. (Slate & Metal), 528 S
 Williams
 Soehner, Herman, 112 S Jefferson
 Sullivan Bros., N S Xenia Pike, E of
 Smithville rd
 Sullivan, Geo. E., 1925 E 5th
 Sweetman, Christ. (Asphalt), 54 S Bank
 Walker, Edw. W., 540 N Keowee
 Wintersteen, C. A., 126 E 5th
 Woods, Richard, 12 S Brown
 Wuichet, Chas. & Co. (Slate, Metal & Tile),
 Young, Max, 213 S Parrott 14 S Canal
DEFIANCE—Kehnaast, William A. Co.
 Krull, Herman
 Mallet, J. G.
 Torrence, Chas.
DELAWARE—Clingen, J. A. (Slate & Metal)
 Karl, F. B.
DELHI—Schwinderman, Frank (Slate & Metal)
DELPHOS—Delphos Hdw. Co.
 Reddelberger, Theo.
DENNISON—Haas, G. D.
EAST LEWISTON—Blosser, Henry
EAST LIVERPOOL—Allen, B. E.
 Allison, A. J.
 Watson, A. A.
EAST PALESTINE—Whittenberger, J. H.
ELMWOOD PLACE—Krais, Henry & Co.
ELYRIA—Elyria Hdw. Co. (Slate & Gravel)
 Fitch & Hornung (Slate)
 Heldmeyer Hdw. Co.
 Whitney, E. F. & Son
FAYETTE—Russell, Chas. H.
FINDLEY—Brewster, F. P. (Slate & Metal)
 Daymon, W. L.
 Flscus, W. J. (Slate, Comp., Gravel, Tin &
 Metal)
 Gates, N. S. & Co. (Slate & Metal)
 Greer Bros. & Co.
 Halliwell, O. B.
 Hoffman & Bryan (Slate, Comp. & Metal)
 Klein, Fred (Slate & Metal)
 Porch & Hartrauft (Slate & Metal)
FOREST—Young, J. W. & T. M.
FOSTORIA—Baker, W. E.
 Ballmer, D. R.
 Hessey, T. J.
 Newson, Jas. L.
 Rollins, S. A.
 Stewart Hdw. Co.
FRANKFORT—Briggs, R. W.
FREMONT—Gast & Lang
 Swint & Reineck
 Winters, F. J.
GALION—Amick, H. G.
 Helcher, C. & Son
 Resch & Casey
 Zimmerman, J. H.
GALLIPOLIS—Langley, Henry V.
 Lawson, J. A.
 Leeper, Chas. W.
 Lewis, Timothy
 Rue, Jno. C.

- GLENDALE—Dollman, J. W. (Slate & Metal)
 Schatzman, P. & Son (Slate & Metal)
 GLENVILLE—Ferris & Calhoun
 GREENFIELD—Langley, George W.
 Oxley, N. C.
 GREENVILLE—Humphrey, R. T. (Slate)
 Smith, O. H.
 Wolf & Craig
 GREENWICH—Viers, J. L.
 HAMILTON—Bast, Geo. (Slate & Metal), 151 N 3d
 Becker, Juo. L., 329 Market
 Ehrhardt, Wm., 110 Main
 Held, Philip & Son (Slate, Metal & Gravel), 12 S 3d
 Matthias Stove Co., 33 Main
 Moebus, Edw. C., 215 Court
 Schlosser, Jacob & Son, 340 High
 Zschaulwin, A. E. (Slate, Metal, Gravel & Asbestos), 326 Maple av
 HARTWELL—Klecspies, C. J. (Slate & Metal)
 HILLSBORO—Brown, P. E.
 Courad, F. L.
 Mauntel, Geo. O.
 IRONTON—Fillgrove, L. A. (Slate & Metal)
 Ironton Roofing & Corrugating Co.
 Miller, Chas. F. (Slate & Metal)
 Scherer, Mrs. Constautia (Slate & Metal)
 Turbulla, J. T. (Slate & Metal)
 KENT—Reed, C. R. (Slate & Metal)
 Schultz, Henry
 Vickers, H. W.
 KENTON—Fink, Jno. & Son
 Held, P. B., 207 W Columbia
 Shectala, J. A., 211 W Franklin
 LANCASTER—Baumeister, Jno. H.
 Gardiner & Hughes (Slate, Iron, Steel & Tin)
 Kerns, E. O.
 McMananey, James (Est. of) (Slate, Iron, Steel & Tin)
 LEBANON—Fudge & Osborn
 Grim, Geo. W.
 LEETONIA—Groner, S. S.
 LIMA—Elliott, E. J., 243 N Charles
 Francis, Hugh, 226 S Main
 Harman, Frank E., 215 S Main
 Miller, J. T.
 National Cornice Co. (Slate & Metal), 121 E High
 National Tile Roofing Co.
 Roush, J. E., 145 S Main
 Roush, Theo., 117 E North
 LISBON—Armstrong, P. M. & Co.
 Whitacre, Jno. (Slate)
 LOCKLAND—Dauterich, E. (Slate & Metal)
 LOGAN—Armstrong, C. P.
 Work Bros.
 LONDON—Speasmaker, P. Sons
 LORAIN—Alten, N. C. (Slate & Metal)
 Lorain Hdw. Co. (Metal & Slate)
 LOUDONVILLE—Lepold, A. B. (Slate & Metal)
 Marks, W. M. (Slate & Metal)
 Miller's, L. S. Store (Slate & Metal)
 LOUISVILLE—Bauman, G. F.
 Bowen, Josiah & Son (Slate & Metal)
 LYNCHBURG—Murphy Bros.
 McARTHUR—Lantz Hardware Co.
 MADISONVILLE—Blaney, U. G. (Slate & Metal)
 Curtis, J.
 Redman Bros. (Slate & Metal)
 MALTA—Mellor, J. E.
 MALVERN—Lewis, W. C.
 MANCHESTER—Kirschner, F. V. & Co.
 Lang Bros.
 MANSFIELD—Bell, H. M.
 Crouse, F. & Son
 Donaldson, George W.
 Flohr, G. A. (Slate & Metal)
 Hoffman, Chas. (Slate & Metal)
 Malone, E. F.
 Martin, C. E. & Bro. (Slate & Metal)
 Runyon, C. C. & Son (Slate & Metal)
 Yunker & Aungst
 MARIETTA—Hall & Lusk
 Meagle & Theabolt
 Morgan, J. W.
 Seyler Hardware Co.
 Theis, H. P.
 MARION—Edsell, Frank C.
 Heldman, Oliver
 Parratt, W. P.
 Salter, F. R. (Slate, Metal & Comp.)
 MARSHALLVILLE—Weimer Bros.
 Wickard, C. A.
 MARTINS FERRY—Bayliss, J. A. & Bro.
 Horcher, A. A.
 Koeherson, M. E.
 MARYSVILLE—Church Bros. & Weld (Slate, Gravel & Comp.)
 Emmert, Conrad & Co.
 Scott, O. M. & Bro. (Slate)
 Turner, Richard
 MASSILLON—Critchfield & Son
 Kammer & Ertle
 Koontz, F. L.
 Oberlin, Chas. E.
 Paul, A. J. (Slate & Metal)
 Portman, A. F. (Slate & Metal)
 MAUMEE—Blaker, Geo. H. (Tin & Metal)
 Myers Hardware Co. (Slate, Metal, etc.)
 MEDINA—Oatman Bros. (Slate & Gravel)
 HAMISBURG—Schell & Pansing
 Trcon & Cade
 MIDDLEPORT—Root & Williams
 Tewkesberry, G. W.
 MIDDLETOWN—Fouts, C. C. (Slate & Metal)
 Jacoby Hardware Co.
 Poling, E. W.
 MILAN—Croft, Richard
 MILLERSBURG—Fitch, John
 Helmuth & Burkey (Slate)
 Hinkle, Geo. E. (Slate)
 Hinkle, Jas. O. (Slate)
 Shoup, Calvin C.
 MINERVA—Crowl, I. W. & Co.
 Gallatin, G. W.
 MINSTER—Kramer & Heverbeck
 MOUNT EATON—Schladley, S. A.
 MOUNT GILEAD—Holt & Buxton
 Hull, Wm.
 Somes & Struble
 MOUNT HEALTHY—Fink, Jacob (Slate & Metal)
 Jackson, Jos. E. (Slate & Metal)
 MOUNT VERNON—Bird Bros. (Slate & Metal)
 Chase, O. C. & Sons
 Jewell, C. W. & R. M.
 Umback, George W.
 Rowley, A. F. & Son
 NAPOLEON—Groschner, Otto A.
 Hines & Son
 NEWARK—Bailey & Keeley (Slate & Metal)
 Clark, A. S.
 Gilbert, W. D.
 Jones, J. C.
 Magee & Davis
 Nutter & Bishop
 Rathbun, Lee L.
 Weakley, J. W. (Tin & Slate)
 Woodward, E. L.
 Weakley & Ballinger (Tin & Slate)
 NEW PHILADELPHIA—Koons, H. G. (Slate & Metal)
 Taylor, O. P. & Son
 Zellner Co. (Slate & Metal)
 VILES—Eaton, J. W. (Slate & Metal)
 Niles Plumbing & Heating Co. (Slate & Metal)
 Union Roofing & Supply Co.
 NORWALK—Gfell, J. H. & Co.
 NORWOOD—Braun, A. & Co.
 Gerth, Anton
 Grabuth, Frank
 Greiwe, E. H.
 OTTAWA—Frey, E. L.
 Jenkins, D. R.
 Schierloh, C. A.
 PIQUA—Heidle, Geo.
 Kienle, Hy.
 Lee, Geo. E. (Slate & Metal)
 Lentz, W. F. (Slate & Metal)
 Norr, T. H.
 Racine, Edw. C.
 PLEASANT HILL—Whitmer Bros.
 PLYMOUTH—Becker, F. L.
 POMEROY—Prall, D. M.
 Remington, B. R.
 Skinner Hardware Co.
 PORT CLINTON—Mizener & Orth
 PORTSMOUTH—Arnold, Aug. (Slate & Metal)
 Conroy, Thos.
 Glockner, F. A.
 Haney, W. S.
 Hook, Frank
 Lanter, Louis
 Lenhart, J. P.
 Roth, Valentine
 RAVENNA—Beckley, C. A. (Est. of)
 Dodge, L. C. & Co.
 Dole, J. G. & Son
 Schulz, Henry (Slate & Metal)
 READING—Hauser, John V. (Slate & Metal)
 Hauser, Joseph
 Hauser, George
 ROSEVILLE—Zehrung, S. P.
 ST. BERNARD—Waltermann, Jno. & Co.
 ST. MARYS—Bishop, A. F.
 Helsel, A. P.
 Meyer, Louis
 SALEM—Gamble & Schermerhorn
 Hole, C. D.
 Walton, J. L.
 SANDUSKY—Reabrie & Hemmerle
 Gundlach, Chas. W.
 Matern, Henry
 Mertz, Jacob & Sons
 SCIO—Croghan, J. G.
 Menkel, H. L.
 SENECAVILLE—Brown & Lepage
 SEVEN MILE—Hill, R. & Son
 SHANESVILLE—Smith, Jno.
 SHAWNEE—Williams, Jno. E.
 SHELBY—Armstrong & Raugh (Slate & Metal)
 Drake Hardware Co. (Slate & Metal)
 Shelby Hardware Co. (Slate & Metal)
 SHERODSVILLE—Williams, Mrs. M. A.
 SIDNEY—Bayley, P. H. (Slate & Metal)
 Reinisch, Geo. A.
 Rostron, Jas.
 Stelnle & Miller
 Stockstill, F. M.
 SOMERSET—Safford, Geo. H. & Co.
 Yaruell, J. H. (Slate, Tin & Metal)
 SOUTH CHARLESTON—Battin & Stoecklen (Slate & Metal)
 SPENCER—Grissinger & Miller
 Oakley, S. D.
 SPENCERVILLE—McClain, A. W.
 Pohlman, Chas. L.
 SPRINGBORO—Hadley, J. W.
 Thomas, J. S.
 SPRINGFIELD—Bancroft, L., 80 S Yellow Springs
 Fisher, W. Frank B., 23 W College av
 Hauck, Chas. F. & Co., 35 W Main
 Hendricksou & Petticrew, 30 N Fountain av
 Humphreys, J. A. (Slate & Metal), 66 S
 Lafferty, S. J. & Sons Limestone
 Otto, F.
 Parthemore, J. C., 24½ Primrose alley
 Peet & Schnuster Co. (Slate & Asphalt), 118
 Schenck, Wm. S Center
 STEUBENVILLE—Bentz, W. K. (Metal)
 Linehan, C. E.
 McMahon, P. F.
 Morgan, Edward (Slate, Comp., etc.)
 Mosel, F. W.
 SULPHUR SPRINGS—Rader & Co.
 SWANTON—Walsh, Jas.
 SYCAMORE—Staum, Martha R.
 Wagstaff, B.
 TIFFIN—Bloom, Paul P.
 Bloom & Huff
 Burke, John
 Crobaugh & Dahm Hardware Co.
 Ernest, G.
 Gahris, J. L. (Slate, Metal, Gravel & Felt)
 Gundlach, A. W.
 La Bar, J.
 Smith, Jacob
 Steinbrick, Louisa
 Strandler, P.
 TIPPECANOE CITY—McClure, J. W.
 TOLEDO—Albrecht, L. C. & Co., 1825 Spiel-
 Arnold, J. L., 1207 Dorr busch av
 Bally, Albert C.
 Carey, Philip Mfg. Co., 319 Water
 Cheney & Co., 19 St. Clair
 Cresswell, J. L. (Metal), Oliver House blk,
 cor B'way & Ottawa
 Curran & Firth (Steel & Tin), 620 Monroe
 Finn Bros., 34 22d
 Frech, Jacob F., 559 Erie
 Garvey, M. J., 107 Michigan
 Gerken, J. D. & Co., 1309 Wash'n
 Goodrich, C. C., 2006 Erie
 Hofer Bros. (Slate & Metal), ft Wash'n
 Kamper Bros., 1540 Western av
 Hoffman, Harpst & Co., 926 Cherry
 Klink & Yeoman, 513 2d
 Kloeppinger, G. F. C. (Slate, Metal, etc.),
 130 Ottawa
 Kuhlman, W. A. & Co., 618 S St. Clair
 Laures & Pfann, 1805 Canton
 Livers, Frank (Asphalt & Gravel), 712
 Loeffler & Christen, 1210 Cherry Summit
 McManus, William, 917 Summitt
 Meier, Ernest T., 311 City Park av
 Miller, Chas. F. (Slate & Metal), 3246
 Monroe
 Nelpp, Jno. W. (General), 504 Dorr
 Pollman, E. H., 454 Wabash
 Ramler, M. J. & Sons, 236 Erie
 Richards, Charles E. G., 8 St. Clair
 Sablin Bros. (Steel & Tin), W. S. Smead av,
 1 n of Monroe
 Scharer, Mrs. J. H., 2025 Cantou av
 SCHILLINGER BROS. CO. (Gravel,
 Asphalt & Composition), 215 City Park av.
 (See adv. index, end of book)
 Showell & Co., 432 Summitt
 Shuman, A. D., 626 Western av
 Toledo Cornice & Copper Works (Metal &
 Slate), 130 Ottawa
 Toledo Roofing & Painting Co., 317 Smith
 United States Roofing Co. (Asphalt, Felt,
 Gravel, Tin, etc.), Gardner bldg
 Vogel, H. & Son, 807 R'way
 Wilhelm, F. J., 1104 Monroe
 Wolfe & Warnke, 23 Erie
 Wortsmitth, Frank, 415 Huron
 TORONTO—Allison, Wm. E. (Slate)
 Roswell, S. (Slate & Metal)
 Brown, L. H. (Slate & Metal)
 TROY—Coles, Schaible & Smith
 Cosley, H. A.

Hatfield & Scott
Oblinger, J. W.
Schnell Bros.
UHRICHSVILLE—Lefler & Rohy (Slate & Metal)
Lusk & Winger
Smith, Leslie
URBANA—Curtis, E. F.
McCracken, J. C. & Sons
Schiedt & Dunlap
VAN WERT—Clark, D. A.
Ross, Wm. B.
WAPAKONETA—Foos & Wehner
Kolter, F. E. & Son
Meyers, Julius
Schemmel & Matlehuier
Schmink, August
WARREN—Boorn, E. C.
Browning Bros.
Fox & Schier (Slate & Metal)
Skinner, L. E.
Warren Hdw. Co.
WASHINGTON—Allen, Chas.
Karney, F. P.
Wilson, Jno. W. & Co. (Slate & Metal)
WASHINGTONVILLE—Gilbert, J. E.
WAUSEON—Harper, W. J.
WELLINGTON—Pierce, A. H.
Ransom-Buchman Co., The
WELLSTON—Rupp, Geo. H.
Rupp, J. H.
WELLSVILLE—Cope Hardware Co.
Morrow Bros.
Wellsville Hardware Co.
White, P. H. & Son
White, Smith & White (Slate & Metal)
WILLOUGHBY—Yaxley, W. H. & Son
WILMINGTON—Jeffries, L. C. & J. M.
Palmer, D. K. (Metal & Slate)
WILMOT—Hurraw & Son
WOOSTER—Billman, S. H.
McClure & Co. (Slate & Metal)
Maurer, John W.
WYOMING—Kuhlman, Jno. B.
XENIA—Baldner & Fletcher
Henric, C. C. (Slate & Metal)
Rayburn, Jas.
Scott, W. H. & Son
YOUNGSTOWN—Alexander, J., 2035 W Federal
Bell, R. A. & Co. (Slate & Metal), 631 W Federal
Blunt, Geo. (Slate & Metal), 502 Mahoning av
Blunt, Jno. (Slate & Metal), 216 E Federal
Broadbent, W. J.
Carey, Philip Mfg. Co.
Dalzell Bros. (Slate), 21 Holmes
Fioravante, Corradino
Goodge, R. E. (Slate & Metal), 21 S Walnut
Holland, A. D.
Holzbach, R. F. & Co., 1673 Wilson av
Kaiser, William
Laughlin Bros. (Slate & Metal), 580 Mahoning
Lawlor, Thos. J., 265 W Federal
Ludt, Jno. P. (Slate & Metal), 637 Wilson
Palmer, C. O. & Son, 99 McGuffey av
Parry, W. J. (Slate & Metal), 738 Mahoning
Perkins Bros., 2550 W Federal
Pettit, Myron (Slate & Metal), 248 E Boardman
Squire, Jno. R. (Slate & Metal)
ZANESVILLE—Berkshire, T. C. & Son, 616 Hanlon & Samp, 142 N 7th Main
Harlan, John C.
Ludy, J. W.
McCormack, G. W. (Slate & Metal)
Maher & Co., 701 Elm
Marcellus, C. J. & Son, 211 Main
Nowell, W. B., 13 W Main
Schreiber Bros. & Flaharida
Schmidt, David (General)
Seright & Webster
Snyder Roofing Co. (Slate, Metal & Asphalt)

OKLAHOMA TERRITORY.

ANADARKO—Stelzner, J. C. & Son
EL RENO—Chapman, Wm.
Hollister & Co.
ENID—Frid Pike, Co.
Van Frank, Fred.
GUTHRIE—Morris, F. L.
OKLAHOMA—Gray, J. T. Roofing Co.
Herrman, F. W.
King, J. R.
Swanda & Finch
Wallace, J. J. (General)
SHAWNEE—Bocher, M. C.
Estes, W. M.
Lester, S. H.

OREGON.

ALBANY—Ludwig, Martin
Stewart & Sox Hdw. Co.
ASHLAND—Provost Bros.

ASTORIA—Montgomery, E. T.
Saltonstall, D.
Sculley, W. J.
Willett, S. H.
BAKER CITY—Basche-Sage Hardware Co.
Caldwell & Benton
Hood, Joseph E.
Wood, J. E.
BANDON—McNair, A.
COQUILLE—Lamb, J. A. & Co.
CORVALLIS—Huston, R. H.
Smith, J. R. & Co.
EUGENE—Aya & Son
Chambers, F. L. & Bro.
Griffin Hardware Co.
FRANTS PASS—Coron, E.
HEPPNER—Gilliam & Bishee
MARSHFIELD—Milner, J. H.
Murphy, W. P.
MYRTLE POINT—Hueling, Lunday & Son
OREGON CITY—Gadke, F. C.
Pope & Co.
PENDLETON—Beck, Benj. F.
Clarke, W. J. & Co.
Taylor Hardware Co.
PORTLAND—Abbott Tinning & Roofing Co., 432 Union av, N
Baily, Bernard, 69 Grand av
Bartosch, John, 302 Russell
Bayer, J. C. (Slate & Metal), 263 2d
Bilger, John A., 133 1st
Burkhart & Weaverson, 305 4th
Campbell, J. M., 368 Russell
Columbia Hardware Co.
Curry, A. W., 116 Grand av
Ferrell, Wm. J., 69 1st
Gabriel & Graeger
Hirsberger & Sweeney, 292 Burnside
Hogg, Wm. A., 996 Belmont
Jaynes, E. B.
Jones & Son, 129 Lowusdale
Kaddery, John J., 141 1st
Kelley Bros.
Kingsley, J. S., 270 16th
Losle, Jacob, 212 Jefferson
McMahon & O'Connor
Meier, J. A., 265 Russell
Moore-Meagher Co., 209 Washington
Petsch, C. F. (Sellwood)
Senn, Theodore
Thronsdon, Theodore C., 290 Grand av
Tilton Bros., 204 4th
Wendland, P. E.
Wynkoop, L. W., 248 Ash
SALEM—Barr, T. M. (Metal & Slate)
Steiner & Berger
THE DALLES—Maier & Schanno
May & Crowe
Sexton & Walther

PENNSYLVANIA.

ADAMSTOWN—Schnader, Levi C.
AKRON—Kemper, Geo. A.
ALLEGHENY—Allegheny Cornlce & Skylight Co. (Slate & Metal)
Arndt, Herman & Co., 2062 Chartiers
Baetz, Mahilda, 811 Chestnut
Beck Bros., 1702 Lowrie
Bloedel, Herman R., 408 Chestnut
Dages & Co., 2056 Chartiers
Eddy & Fulton, 616 Rebecca
Fortenhacher, J. & Son, 538 Ohio, E A
Gauger, A. C., 613 Jackson
Gehb, John, 1272 Ridge av
Geyer, J. H., Atlantic av nr Termon av
Gill, A. C., 34 Spring Garden
Helt Bros. (Slate), Ellis & Perrysville avs
Helt, Geo. P. (Slate, Metal & Gravel), 1915
Jacobs, Anthony, 1240 Franklin Sedgwick
Kemmer, Jacob, 1714 Beaver av
Kirk, Chas. H. (Tin), 1018 Beaver av
Knodel, W. H. (Slate), 510 E Diamond
Koppes, John, 1940 East
Limbach, Frank, 524 Tower
Lhota, John H., 809 Ohio
McCaw, T. W. Roofing Co. (Gravel), 104 Erie, W A
McGraw's, J. A. Bros. (Gravel, etc.), 220
Nimpher, A. J. 42 Rhine Sandusky
Pittsburg Heating & Roofing Co. (Slate Metal & Gravel), 210 Federal
Retter, Frank (Tin), 1530 East
Sands & Creagh, Allegheny av & P & W R R
Scarborough Roofing Co. (Comp., Gravel etc.), 859 Ohio, E
Schimpf, H. & Son, 12 Rolla
Schmidt, A., 85 McClure av
Schmidt, Geo. P. & Co. (Slate), 1018 Ohio
Schnanfer Bros. (Gravel), 916 Gerst av
SCHOLES BROS. (Slate & Metal), 1241 Rebecca. (See adv. Index, end of Schwartz, Herman, 3035 Stayton book)
Watkins, E. J. (Tin), 95 Lecky av
Weiseckel, P. J., Norwood av nr Mary'd av

ALLENTOWN—Allentown Cornlce Works (Slate & Metal)
Bernard, G. H., 1251 Chew
Best, J. A. & Co.
Ettinger, C. H.
Hersh & Bro., 829 Hamllton
Merkle, Wm. J., 250 N 8th
Miller, Jacob, 535 Linden
Neff, Wm. F., 33 N Hall
Roth, Daniel J., 212 Hamllton
Swartz, Samuel P., 17 N 2d
Traub, J. G.
Vogel, T. P., 616 N 5th
Wasser, T. R.
Wickel, Aug.
Wieder, Harry & Co.
ALTOONA—Degenhart, W. J.
Degenhart & Segmiller
England, I. M.
England, S. B., 1412 6th av
Graham, P. F., 1104 16th
Holliday, J. C.
Hughes, J. C. & Son, 906 8th av
Johnson, A. A., 1218 8th av
Kimmel, Philip
Kimmel, W. J.
Klesius, Geo. A., 609 12th
McIntire, f. A., Jr.
McNevin, John & Son
Neaffer, M. H.
Peters, W. T. (Slate & Tile), 915 11th av
Pfannenschmidt, Henry (Slate), 2601 9th av
Sahathne, Henry
Smith & Hesser
Union Roofing Co. (Tile, Slate & Gravel), cor 11th av & 13th
Weisgarver, R. S.
Wilkinson, Lee A.
Woessner, Jno. G.
Zumsteg, Frank
AMBLER—Reed, H. W. B.
ANNVILLE—Keller, S. F.
Smith, Jno. N.
APOLLO—Baxter, E. L.
Kennedy, H. G.
ARDMORE—Whelan, M. A.
ASHLAND—Barnard, C. H.
Buck, Peter E. & Sons
Lauer, Jno. J.
McConnell & Bro.
Morgan, Geo.
Stief, Herman
ATHENS—Finch Bros.
Roberts, G. L. Co.
AVALON—Baird, W. W.
Springer, O. P.
AVOCA—Druffner, Christopher
Dunn, T. J.
Webber, George V.
AVONDALE—Gray, Joseph G.
Thomas, Joshua
BAINBRIDGE—Hipple, H.
BALLY—Eddinger, Henry
BANGOR—Dutt Bros.
Houck, W. O.
Snyder, O. P.
BATH—Beer, Jacob F.
BEAVER—Lawrence, Jos. W. (Slate & Metal)
Simpson & Ingam
BEAVER FALLS—Allen Roofing Co.
Barker Bros.
Brierly, F. F.
Davidson, W. J. (Slate & Metal)
Hunter, G. S. (Slate)
Zeller, Henry W. (Slate & Tile)
BEAVERTOWN—Snyder, W. G.
BECHTELSVILLE—Kehs, I. B.
BEDFORD—Shires, H. P.
BELLEFONTE—Twitmire, W. T.
BELLE VERNON—Hasson, J. P.
Odert & Clendenon
BELLEVILLE—Utts, Wilson S.
BELLEVUE—Knell, Louis
BENNETT—Prestholt, Edw.
BENTON—Keller, Byron G.
Keller & Conner
BERWICK—George, O. W.
Laubach, H. C. & Son
Lenhart, J. W.
BETHLEHEM—Rlshop, A. S.
Krause, Henry A.
Kromer & Geisinger
Lehigh Valley Cornlce Works
Luchenhach, F. E. & Bro.
Schall, Fred J., West B
Schlosser, Jacob F., West B
Wagner, F. A.
BIRDSBORO—De Wlitt, August
Prutzman, J. M.
BLAIRSVILLE—Alter, F. M. (Slate & Metal)
Alter, J. O. (Slate & Metal)
Alter, O.
Forsha Bros. (Slate, etc.)
Stiffey, S. D. & Sons
BLANCHARD—Clark, D. W.

- BLANDON—Madeira, Samuel H.
 BLOOMSBURG—Hartman & Mendenhall
 Whary, L. E.
 BOYERTOWN—Lefever, L. E.
 Yahn, Jacob B.
 BRADDOCK—Braddock Hdw. & Supply Co.
 Edmunds & Williams (Slate & Tin), 811 Brad-
 dock av
 Fulton & Maggini (Slate & Metal), 810 Brad-
 dock av
 Loew, J. A. & Co. (Slate & Tin), 546 Brad-
 dock av
 Schilling, Conrad, Jr. (Slate & Tin), 644
 Shirer, J. W. (Slate & Metal) Corey av
 Silver, W. L.
 Stuart, J. W.
 BRADFORD—Bodine, Geo. A.
 Dean & Love
 Fox, Jas. B.
 Griffith, T. M. & Son
 Haggerty, Marceus A.
 Tschachtli, Louis
 BRIDGEPORT—Kalb, J. F.
 BRISTOL—Bevan, Lewis J.
 Girtom, Wm. A.
 Hendricks & Mariner
 BROCKWAYVILLE—Bond & Cooper
 BROOKVILLE—Blake, E. E. (Slate)
 Henderson, Robert L.
 Sentner, J. H.
 BRYN MAWR—Bryn Mawr Hardware Co.
 Lyons, Jas. S. & Bro.
 Morris, Jos. A.
 Soley, Wm. H.
 BURGETTSTOWN—Conrad, Henry & Son
 BUTLER—Barnard, C. H.
 Biehl, Henry
 Campbell, J. G. & W.
 Gill, Mrs. Jessie
 Gilmore, W. R.
 Hauck, F. J.
 Stock, C.
 Wilson, Wm. B.
 CAMPBELLTOWN—Evans, J. E., Jr.
 Johnson, W. B.
 Whitman, A. M.
 CANONSBURG—Elliott, W. J.
 Van Eman, J. J. & Son (Slate & Gravel)
 CANTON—Clayton, W. H.
 Pierce, Theo.
 CARBONDALE—Bell & Brown
 Van Bergen & Co.
 Von Beck Bros.
 CARLISLE—Bixler, J. P. & Sons
 Fridley, Jacob
 Morris & Riley
 Rinesmith, Geo. W. & Sons
 CARNEGIE—Coryell, J. P.
 Dunlap, John Co.
 Lenfesty, T. M.
 Rome, Geo. & Co.
 Schultz, Jno. F. & Son
 Thomas, Jno. C. (Slate)
 CATASAUQUA—Schenck, R. J.
 Schneider, Chas.
 Schneller, Charles W.
 Schneller, Jno. P.
 Souder, Henry J.
 CENTRE SQUARE—Drake, S. B.
 CHAMBERSBURG—Eyster & Snider
 Hanks, Jared B.
 Lay, Wilson F.
 Leshner, Daniel (Slate)
 Miller, C. P. & Co.
 Miller, F. A.
 Moore, A. J.
 Reside, Wm. H.
 CHARLEROI—Bowers, John H.
 Freeman, Fred
 Laird, J. F.
 May, L. W. & Co.
 CHESTER—Armltage, Geo. L. (Slate, Metal &
 Gravel)
 Beaumont, Wm., Jr. (Slate & Metal)
 Beaumont, J. C. & J. D.
 Brackenridge, Jas.
 Deveney, Wm. L. (Slate & Gravel)
 Doran, Jno. A.
 Eisenbise & Bro. (Slate, Metal & Gravel)
 Fryer, James
 Goodman, K. & Son
 Howarth's, Robt. Sons (Slate, Metal
 Gravel)
 Ives, E. T.
 McCarey, Edw.
 Morris & Grimeson
 Shea, Jno. F.
 Smith, George G.
 Ward, Hugh H. (Slate, Gravel & Metal)
 CHESTNUT LEVEL—Weidley, Henry
 CHRISTIANA—Donoghue, Geo. W.
 Koons, Geo. A.
 CLAYSVILLE—Plants, C. G.
 CLEARFIELD—Johnson, F. & Bro.
 Kettelbarger Bros.
 COATESVILLE—Cordes, Hy. B.
 Glauner, Jno. R.
 Pleasant, John
 Sallis, Wm. (Slate & Tile)
 Speakman, J. E.
 Young, W. W.
 COLLEGEVILLE—Hunsicker, A. K.
 COLMAR—Clark, J. S.
 COOPERSBURG—Flieler & Eckert
 COLUMBIA—Conley, Albert B.
 Haug, Jacob
 Paules, J. W. (Slate)
 Strickler, Calvin R.
 White, Thos. S.
 Wilson, Hiram (Est. of)
 CONNELLSVILLE—Fitzmier & Co.
 Skinner, J. B.
 CONSHOHOCKEN—Messinger's, H. C. Sons
 Mullen Bros.
 Sower & Campbell
 COPLAY—Sieger, Elias
 CRAWFORD—Engle, J. C. (Slate & Metal)
 Stoops, T. D. & Co.
 CORKY—Barlow Hdw. Co. (Ltd.)
 Guignon, E. E.
 Guignon, H. A.
 Miller & Stewart
 DANIELSVILLE—Hower, J. K.
 DANVILLE—Doster, J. H.
 Foster Bros.
 Hendricks, Geo. W.
 Hixon, John
 Uttermiller, Charles
 DARBY—Appleton, A. N.
 George Harmon K.
 DELTA—Baker & Bro.
 DONORA—Hodge, B. H. (Slate & Metal)
 DOYLESTOWN—Donnelly, John J.
 Fistant Bros. (Slate, Tin, Tile & Iron)
 DUBOIS—Davie & Brion
 Heilbrun, Henry
 Hibner-Hoover Hardware Co (Slate, Metal
 & Gravel)
 Prothero, F. W.
 DUNMORE—Hughes, T. J.
 Priem, Herman
 Wheatcroft, Wm.
 DUQUESNE—Heilman Bros.
 Rannigan, Wm. & Co.
 Thomas, G. E.
 DUSHORE—Cole, Samuel
 Cunningham, Jas.
 EAST BRADY—Blatt, V.
 Wright, G. S.
 Yount, H. A.
 EAST MAUCH CHUNK—Bennyhoff, W. H.
 Genshart, Geo. M.
 EASTON—Arndt, Wm.
 Bennett, H. H.
 Grogan, James
 Hahn, Richard S.
 Kinsey, H. P.
 Linden & Son
 Meeker, L. R., 466 Northampton
 Miller, E. H. (Metal, etc.)
 Miller, H. R., 623 Northampton
 Osterstock, Jos. S., 212 Northampton
 Schooley, H. C., 1126 Northampton
 Schultz, John, 21 N 7th
 Segner, Henry R.
 Sorbert, R. F., 1101 Butler
 Slough, Joseph
 Stotz Bros. (Slate & Metal)
 Vogel, Harvey E.
 Wilson Stove & Mfg. Co.
 EAST STROUDSBURG—Barnhoeft, George J.
 Lessig, Joseph, H. etc.), 1310 Sassafras
 ECONOMY—Lieberman, M. F. Sheet Metal &
 Roofing Co.
 ELIZABETH—Young, W. A.
 ELIZABETH—McClure & Son
 Wylie Bros.
 ELIZABETHVILLE—Hoke, Ira. M.
 Ziebler, Lewis H.
 ELLWOOD CITY—Anderson, J. H.
 Lepigan, J. W.
 ELVERSON—Fox, Henry S.
 EMMAUS—Wieder, H. A.
 EMMENTON—Shoemaker Bros.
 Stoffe, H. T.
 Weller, J. A. & Sons
 EMPORIUM—Murray & Coppersmith Co.
 ERIE—Balzer, John
 Roebert, Albert
 Einhellig, J. A.
 Erie Roofing Co. (Felt, Slate, Asbestos
 Feldler & Hippell etc.), 1310 Sassafras
 Goergen, Chas. S.
 Kretz, Jacob, 597 French
 Miller, John, 617 W 18th
 Minzenberger, Jacob
 Murphy Bros. (Slate & Metal), 22 N Park
 National Roofing Co.
 Patterson & Sterling (Slate & Metal), 12th
 Rasttatter, H. B. & French
 Ruland, J. S.
 Swelgard, U. D., 424 W 19th
 Trimble, W. S.
 Woeckner, H. A.
 ETNA—Hartman, Charles A. Son & Co.
 ETTERS—Shaffer, Geo. F.
 EVANS CITY—Dunbar, B. W.
 EVERETT—Gorsuch, Thomas V.
 Herman, F. H. & Son
 FACTORYVILLE—Connors, John
 FLEETWOOD—Maderia, Levi
 Schlegel, Wilson K.
 FRACKVILLE—Haupt, D. P.
 FRANCONIA—Auchy, B. W.
 FRANKLIN—Greer, C. H.
 Harding, George
 Lovell, S. A. & J. W.
 Tiffany & Ramsdale
 FREDERICK—Knorr, Jno.
 FREDERICKSBURG—Kirst, Geo. W. & Son
 FREEDOM—Overton, R. J.
 FREELAND—Marchetti, Henry
 O'Boyle, M. M.
 FREEMANSBURG—Cole, O. V.
 FREEPORT—Dougherty, Wilson
 Wallace, E. H.
 GALLITZIN—Buck, Jos. G.
 GETTYSBURG—Gottwald, George G.
 Smith, A. J.
 Wlnebrenner, Thomas J.
 GIRARDSVILLE—Horsewood, William
 Greensburg Composition Roofing Co.
 Gress, E. C.
 Howell, George W.
 Kling, S. J.
 Overly, W. F.
 Temple & Sons
 GLENFIELD—Friese, Chas.
 GLEN ROCK—Kraft, Albert W.
 Lan, L. B.
 GRATERS FORD—Smith, R. S.
 GREENVILLE—Bennett, E. F.
 Dickey Bros.
 McManus, L. A.
 Noel, Jno.
 GROVE CITY—Filer, W. H. (Slate & Metal)
 Rhodes & Redmond
 Weaver, H. C.
 HALLSTEAD—Rogers, J. B.
 HAMBURG—Egolf, B. F.
 Rau Bros.
 Romich, Allen J.
 Seidel, R. F.
 HANOVER—Bargelt, Lewis I.
 Bargelt, Paul E.
 Bixler, D. D. & Son
 Rohrhaugh, John F.
 Slagle, William A.
 Wentz, R. M.
 HARLEYSVILLE—Wolford, H. D.
 HARRISBURG—Cleckner & Burke, 1226 N 3d.
 Ebert, William, 418 Reilly
 Einsinger, S. D., 600 Race
 Fager & Maeyer (Metal), 108 Market
 Fisher Bros., 1001 Capitol
 Lauffe, Albert
 Mull, G. W.
 Nissley, H. K., 14 N 3d
 Parthemore, L., 37 N 13th
 Payton, Michael
 Pennell, J. H., 612 MacLay
 Rehuck, J. M., 1849 Derry
 Rein, H. A.
 Townsen, T. F. (Slate), 509 Walnut
 Snook, W. H., 334 Kelker
 Starr, M.
 Weast, George B.
 Weiss, E. W.
 Zeiders, L. S.
 Zeiders, W. W.
 Ziebler & Hayes
 HARRISON VALLEY—Hubbard, C. G.
 HATBORO—Butterworth & Fretz
 HATFIELD—Reaser, F. H.
 HAWLEY—Lieber, August K.
 Mayer, Albert
 HAZLETON—Barber, J. F. & Co (Slate &
 Metal)
 Cohen, Jacob
 Goldstein, Sarah
 Koehler, George G. & Son
 Murphy, Daniel S.
 Schmanch, N. J., 46 E Mine
 Tunnessen, William
 Wagner, E. E. & Co.
 HELPERTOWN—Fehr, F. L.
 Ritter, Theo.
 HOLLIDAYSBURG—Brenner, William
 Frank, G. J.
 Reed, J. H.
 Schilling, John M.
 HOMESTEAD—Nebo Bros. (Slate & Metal)
 Roberts, Jno. H.
 HONESDALE—Bergman & Deck
 Spettigue, O. M.
 Watts, Graham

HONEYBROOK—Anderson, A. M.
HUMMELSTOWN—Nye & Conrad
Wolaver, H.
HUNTINGDON—Fink, B. F.
Hahman, George C.
Hassenplug, William
Vaughan, F. C.
INDIANA—Alter, Charles A. (Slate)
Hamilton, George T.
Taylor, Alexander T.
INTERCOURSE—Rodgers & Leaman
IRWIN—Bowman, John A.
Miller, S. B.
Shotts, E. P.
Smith, E. W.
JACOBUS—Fahs, Chas. E.
JAMESTOWN—Robb, S. L.
JEANNETTE—Becker, B.
Drugwitz, O. A.
Koebel Bros.
McGinnick, W. L.
JENKINTOWN—Fleck, W. C. & Bro.
JERMYN—Eagen, M. J.
JOHNSTOWN—Alter, F. E.
Doyle, F. J.
Fenn, Wm. J.
Friedhoff & Mahaffey
Garretson, N. S.
Graf, Jno. A.
Joy Bros., 234 Bedford
Luttringer Bros.
Miller & Smith
Sheets, Jno. F.
Stafler, W. H.
Twitnire, A. A.
KANE—Crowell, Theodore
KENNETT SQUARE—Martin & Sill
Stiner, Wm. H.
Thomas, Chas.
KINGSTON—Gallagher, P. L.
Johnson, Harry F. & Sons
KIPPLE—Colestock, S. H. (Felt, etc.)
Lees, John W.
KITTANNING—Croll, Lee S.
Graham, A. W.
McConnell & Luker
McCullough, James, Jr.
KLECKNERSVILLE—Fehnel, John E.
Grayer, O. F.
KULPSVILLE—Kline, H. R.
KUTZTOWN—Smith, Joshua
LANCASTER—Ackerman, Jacob P.
Arnold, John L. (Slate, Metal & Slag)
Cunningham, Jos. J.
Dare, John H.
Everts & Overdeer, 1 Howard av
Fellman Bros.
Klehl, George L.
Long, Joseph, 402 E Orange
May, Cornelius F.
Miller, David H.
Peach Bottom Roofing Slate Co. (Slate)
Reaser, George M.
Pohl, John E.
Schaum, John G.
Sener, G. & Sons (Slate), 309 N Prince
Sheet Metal & Supply Co. (Metal & Comp.)
Slaugh, William
Swartz, Harry B.
LANDISVILLE—Root, I. F. (Slate)
LANDSDOWNE—McCullough, G.
Nacey, John (Slate & Metal)
Worrell, Wm. H.
LANSDALE—Davis, Lewis M.
Grant, Jenkins & Co.
Mace, H. M. (Slate & Metal)
Wengartner, O. S.
LANSFORD—Davis, T. L.
Drumheller, Wallace
Hall, J. R. (Slate)
Zellner, C. F.
LATROBE—Carouthers, J. D.
Crawford, Chas.
Gardner, M.
Gregory Bros.
Hauk & Son
Lohr, Jacob H.
LEBANON—Blyler, Frank P.
Bower, A. H. (Slate)
Bressler, C. O. & Co.
Coble, L. M. & Co.
Gamber, Wm. P.
Grumbeln, J. E. Co.
High, D. F. (W Lebanon)
Johns, Jno. H.
Reinhard, T. H.
Rise, William S.
Seltzer, J. H.
Snyder, J. F.
Uhler & Kline
Unger, Geo. C. & Co.
LEECHBURG—Leechburg Hardware Co.
McGeary, J. M.
Small & Hill

LEHIGHTON—Esch, George A.
Jones, James T.
Swartz Bros.
LEWISBURG—Cromley, William (Slate)
Wensel, W. N.
Zentmeyer, Frank
LEWISTOWN—Fichthorn, Joseph A.
Spangler Bros.
Thomas, James B.
Zerbe, H. R.
LEWISVILLE—Ewing, George T.
LIMERICK—Hunsicker, C. T.
LINFIELD—Daub, H. L.
LIVERPOOL—Coffman, W.
Stally, H. B.
LOCK HAVEN—Baker & Co.
Bittner, G. W.
Pickenscher, Frederick (Est. of)
Fredericks, J. H. & Bro.
Geary, M. P.
LUZERNE—Snyder, John T.
McKEESPORT—Bestwick, Jacob (Slate & Metal), Blackberry av
Dale Bros.
Exner, W. H.
Hartman Hardware Co., 215 5th av
Keefe, P. A. & Co.
Kemp, Jas. F. & Bro.
McKeesport Composition Roofing Co.
McKeesport Plbg. & Roofing Co.
Miller & Matthews
Myers, Jacob, 910 Jenny Lind
Peterson, G. E.
Reed, F. M. & Co.
McKEES ROCKS—Smith, Hy. J.
Van Tine, John
McKNIGHTSTOWN—Winebenner, Chas. D.
MACUNGIE—Desh, Milton
MAHAFFEY—Wrigley Hardware Co.
MAHONEY—Heinze, George C.
Heiser, H. J. & Co.
Larkin Bros.
Leahy, Thomas F.
Miles, J. W.
Morgan, William
Stokes, Geo. S.
MALVERN—Detwiler, Mrs. P. J.
Garrett, R.
Morgan, W. & T.
MANATAWNY—Yoder, M. S.
MANHEIM—Levan, W. Y.
Ream, Frank W.
Witmyer, H. S.
MARIETTA—Strump & Mueller
Wiseman, A.
MARS—Zeigler, A.
MARSHALLTON—McFarland, H. J.
MAUCH CHUNK—Bartholomew, E. D.
Schrunk, William M.
MEADVILLE—Berg & Boyle
Gill, D. A.
Guenther, F. M.
Powell, M. M. & Co.
Rouche, Frank (Slate & Metal)
Weik & Stein
MECHANICSBURG—Bobb, G. W.
Cromleigh, D. A.
Hauck Bros.
Wonderly, Frederick
MEDIA—Buckley, Miss E. A.
Johnson, G. Edward
MERCER—Downs, James
Newell, A.
MEYERSDALE—Baer & Co.
Bolden, Chas. A.
Cover, P. J. & Son
MIDDLETOWN—Keever, W. F.
Lenhart, H. A.
Solser, S. S.
MILFORD—Klein, T. R. J. & Son
MILTON—Gehrig, L. W.
Kennedy, James F.
Konkle, J. R.
Krause & Co.
Leh, Dennis (Slate)
Martz, P. R.
MINERSVILLE—Dunn, A. H.
Martz, J. F.
Wiltman, August
MONACA—Heldrick & Taylor
Zitzman, George J.
MONESSEN—Rearer, H. J. & Co.
MONONGAHELA—Downer Bros. (Slate)
Riggle Bros.
MONROETON—Smalley, Geo. H.
MONT CLARE—Logan, A. L.
MOORES—Gould, M. D.
MORGANTOWN—Foreman, Lott B.
MORTON—Benecke, Henry
Manning Bros.
MORWOOD—Groff, H. W.
MOUNT CARMEL—Beddall & Wardrop
Bergstresser, Sam'l E.

Evert & Dechart
Phillips, Wm. H.
Williams, H. H.
MOUNT JOY—Buohl, John H.
Webb, Jas. E.
MOUNT OLIVER—Bametzrieder, Henry
Wagner, John S.
MOUNT PLEASANT—Mount Pleasant Plumb-
ing & Roofing Co.
Metz, David
Patterson, G. W.
Smith, W. H. & Son
MYERSTOWN—Drybred, T. M.
Smith, T. H.
NANTICOKE—Hill & Evans
Lecher, Chas. H.
Snyder, C. P.
NANTMEAL VILLAGE—Garvine, Chas. A.
NATRONA—Hookey, N.
NAZARETH—Bardill, John F.
Fulmer, Joseph
Messinger, Frank
NEW BETHLEHEM—Anderson Hardware Co.
Cribbs & Fox
Cowan, G. E.
Martin, J. E.
NEW BRIGHTON—Bestwick, G. A.
Derrickson, Alfred (Slate & Metal)
Funkauer, S. H. & Co. (Slate & Metal)
McDaniel, R. B. Co. (Slate)
Reehl, P. H. (Slate & Metal)
NEW CASTLE—Carr, J. C.
Dickson & Co.
Dunlap & Sons
Hannon Joseph (Slate & Metal)
Hellman, William (Slate & Metal)
Kline, H.
McBride Bros. (Slate & Metal)
McClelland, A.
Meyer, Geo. F.
Pisor, M. C.
Reynolds, Charles L. (Slate & Metal)
Welch Hardware Co.
NEW CUMBERLAND—Kister, Harry E.
Lenhart, De Lancy Y.
NEW HOLLAND—Davis, I. G. & Son
NEW KENSINGTON—Masters, Robinson &
Crooks
Miller, Harris
Pflough, W. J.
Seybold, S. R.
Speer, A. L.
NEWPORT—Burd, S. W.
NEWTOWN—Lundy & Shinn
Phillips, John W.
Smith, W. A.
NICHOLSON—Driggs & McConnell
Stephens, Bert D.
NORRISTOWN—Boyer, J. Frank Plumbing &
Heating Co.
Cressman, J. T.
De Sohns, Geo. B.
Ellott, H. C.
Geyer, A. M. (Slate)
Johnson, W. F.
Kalt, J. F.
Kelsen, Oliver
Nelman & Frey
Quillman, Benjamin (Slate & Metal)
Smith, Alfred (Slate)
NORTH EAST—Phillips, L. J. (Slate)
Selkregg Hardware Co.
NORTHUMBERLAND—McAlister, Clarence
Yeager, Geo. W.
NORTH WALES—Leister, J. H.
Meyers, Wm. H.
Shearer, Abel K.
OGONTZ—Horner, Maurice P.
OIL CITY—Booker Sheet Metal Works
Carson, J. M.
Evans, G. K.
Kitchell, D. T.
Parks, F. G.
Snyder Bros. (Slate)
OLEY—Carl, Jonas
Yoder, F. D.
OLYPHANT—Mackey, M.
Sullivan, J. F. & Co.
ORWIGSBURG—Long, James H.
OXFORD—Burling, Wm.
Iverson & Armstrong
Manvoun, T. J.
PALMERTON—Benninger, Abraham (Slate)
PARADISE—Le Fevre, Nat'l J. & Son
PARKER FORD—Mull, Mahlon C.
PARKERSBURG—Cromleign, S.
White, Peter D.
PARKERS LANDING—Dunlap, E. F.
PARSONS—Trethaway, Thos.
Trethaway Bros.
PATTON—Harper, J. C.
PEN ARGYL—Bleler, C. & Son
Correll, R. S.
PENBROOK—Wagner, Reuben N.
PENNSBURG—Diehl, Wm. B.
Steckel, V. H.
PERRYVILLE—Winner, J.

PHILADELPHIA—Ahrnski Bros., 1615 Stiles
Acton, H. C., 738 S 20th
Ahn, Leander K., 2563 Amher
Alexander Bros. (General Roofers), 10 N 2d
Allard, Frederick J., 16 Harvey, Gtn.
Allen, Hy. S., Jr., 603 Venango
Armstrong, Charles W. (Comp., Gravel,
Tln, Slag & Slate), 918 N 46th
Arnd, Charles A., 3504 Haverford av
Atkin, W. H. L., 2122 N 15th
Bailey, Edw. J., 511 Richmond
Baker, Warren, 1600 N Front
Baral Hardware & Heating Co., 1024 Co-
lumbia av
Barrett, John C. (Comp., Gravel & Slate),
1131 S 16th
Basford, Jno. W., 413 Winona, Gtn.
Bauer, Christian, 1233 Poplar
Bavington, Andrew D., 2115 Oxford
Beaumont, Jas., 49 W Rittenhouse, Gtn.
Benkler, George, 1203 Master
Benkler, Philip (Comp., Gravel & Slate),
1927 N 5th
Benner, Geo. W., 2508 Germantown av
Berger Bros. Co., 237 Arch
Beswick, Richard, 330 S 4th
Bevan, R. W., 1636 Venango
Bischoff, Jacob G., 2958 Frankford av
Bischoff, Thos., 2039 E Clearfield
Black, Edwin C., 1720 Fkd av
Bleifgen, Henry J., 868 N 4th
Blizard, George B., 108 Manton
Bohem, A. & G., 1438 Federal
Bonner, A. J., 1633 N 2d
Boorse, Abram C., Bln pk nr Boileau, Bln
Bortel, E. S. Co. (General), 1801 Market
Bramhley, H., 4944 Germantown av
Brenner, Charles, 1918 Passy'k av
Brinkmann Bros. (Gravel, etc.), 2617
Frankford av
Brown, David P., 2302 N 29th
Brown, Geo. (Tln), 614 Cherry
Brown, Joseph E., 525 N 23d
Bnchert Bros., 1602 Venango
Buchy, Henry A., 7226 Paschall. av
Buckman, George W., 853 N 19th
Buckman, Stephen A., 2331 N 15th
Bulley, Jno., 1866 N Taney
Buzby & Hellerman, 5324 2d st pk, Olney
Byrd, John, 1427 Catharine
Caldwell, G. B., 8th & Wallace
Call, S. P., 238 Arch
Callahan, Charles, 42 N 2d
Caplan, Israel, 802 S 6th
Carey, Philip Mfg. Co. (Magnesia Flexible
Cement), Real Estate Trust hldg
Carlin, Phillip, 1743 Venango
Carr, Jno. E. & Son, 4118 Lancaster av
Carre, D'Angell H. (Est. of), 143 N 13th
Carrigan, Peter & Son, 114 N 5th
Cassel & Zeeh, 5440 Vine
Cave, John C., 6149 Haverford
Chambers, John, 706 S 19th
Chew, Wm. A., 306 S 4th
CLASON SNOW GUARD
428 Kinsley av, Providence, R. I. (See
adv. index, end of book)
Clayton, Frank P., 1222 Race
Coale, Wm. D., 4134 Orchard, Fkd.
Coburn, Geo. A., Nippon nr Gtn. av, Gtn.
Cohurn, George R., 7314 Germantown av
Coffey, Richard H. (Comp., Gravel & Slate),
Cohen, Joseph, 736 S 6th 1847 N 5th
Colbert, F. M. (Comp., Gravel & Slate), 1227
S 4th
Collier, Charles A. & Son (Tln), 2052 Fair-
mont av
Collins, Matthew M., 1834 Cahot
Columbia Heating & Roofing Co., 1634 N 11th
Connor, F. E. & Co., E Allegheny av nr
Trenton av
Cornell, Hugh T. (Slag & Gravel), 1845 N
6th
Cortright Metal Roofing Co. (Inc.), 50 N
Davenport, W. H., 106 Conarroe 23d
Davis, C. H., Nedro c York rd, B'town
Dawson, James, 3535 N 5th
Dawson, John P., Edmund nr Longshore,
Decker, Jno. & Son., 2704 Girard av Tac.
Delaney, Roger H., 5856 Magnolia, Gtn.
Dickson, Jno., 105 E Cheltenham av
Diehl, Watson, 608 N 3d
Diehl, Wm. W., 217 Poplar
Doan, F., Bln pk nr Byberry rd, Somertown
Doan, Jos., 146 S 6th
Donnell, Joseph, 630 S 19th
Donovan, D. J., 5713 Market
Donnelly, Jas. P., 2001 E Elkhart
Donnelly, John P., 938 W Huntingdon
Duffey, Thos. C., 308 N 57th

Dux, John F. (Comp., Gravel, & Slate),
2239 N 2d
Earle, Wm. (estate of), 2132 Callowhill
Edel, G. A., 3046 Kensington av
Eisenhower, Leon D., 2008 S Juniper
Elliot, Andrew G., 6845 Gtn. av, Mt. A.
Ellis, G. D. & Sons Co., 229 Vine
Epler & McAllister, 5221 Market
Evans, Othniel B., 1648 N 26th
Fagan, Thos. (Comp., Gravel & Slate), 3738
Cresson, Wis.
Fairley, Alex. W., 1609 N 17th
Filbert Paving & Construction Co. (Comp.,
Gravel & Slate), Pennsylvania hldg
Fine, S. D., 905 S 16th
Fischer, Frank C., 828 Spring Garden
Flounders, E. L., 1335 Poplar
Fluck, Frederick, 1140 Wolf
Foertsch, Geo. H., 271 Susquehanna av
Foley, Jos. F., 1210 Callowhill
Foster, Thos., 402 Richmond
Foust, Mahlon C., 1717 N 31st
Fow, Benj., 204 New
Fox, A. G., 1624 Passy'k av
Fox, Jos. W., 1416 Federal
Frey, Gottlieb, 1250 N 10th
Fuss, G. W., 5109 Tacony, Fkd.
Fuss, John, 4807 Richmond hldg
Gara, McGinley & Co. (Comp., Metal, Slate,
Tile, etc.), 23 S 17th
Garraty, James F., 4089 Lancaster av
Garrett, John, 420 N 12th
Gassner, Chas. F., 1911 Dennie
Gassner, Thos., Jr., Green c Berkley, Gtn.
Geissel, J. H., 2218 N 29th
Geissler, Chas. F., 844 N 25th
Gercke, Samuel, 7101 Tulip, Tacony
Gildenfenney, Chas., 7115 Woodland av

GILMAN SNOW GUARD

103 Merrimac, Boston, Mass. (See adv.
index, end of book)
Goodwin, Fred. O. (Comp.) Gravel & Slate,
554 N 53d
Goodwin, William C., 6006 Haverford
Gross, Wm. A., 2210 E Norris
Gross, Wm. E. (Comp., Gravel & Slate),
1224 Oxford
Grover, Thos. E., 3841 Lancaster av
Guenther, R., 227 Brown
Hammer, J. B., 6104 Germantown av
Hampton & Co., 232 Dock
Hansell, Geo., 6102 Ridge av
Harrington, Lucian W., 4541 Woodland av
Harris, Samuel, 422 S 21st
Harris & Harris (Slate, Tile, Metal, Gravel
Slag, etc.), 50 N 23d
Hart, Christopher, 33 E Graver's la, C. Hill
Hartman, Alvin E., 2939 N 22d
Hartnack, Thos. G., 902 N 26th
Hawthorne, Jos. J., 1700 S Front
Heckley, Gustav A., 2123 N Front
Heinze Bros., 305 S 52d
Hendricks, Jacob, 2861 N 6th
Hendrickson, John C., 1508 Thompson
Henry, Michael J., 1911 N 23d
Hicks, Silas, 5414 Vine
Hochreiter, Theo., 1601 N 5th
Holden, H. C., 4830 Fkd. av
Hone, Francis, 321 Callowhill
Hopkin, Warren, 8023 Roanoke, C. Hill
Hopkins, Samuel K., 1226 N 11th
Hopkinson, Samuel, 1421 Frankford av
Hughes, Geo. W., 313 Walnut
Humphreyville, Edwin, 2641 N Hutchinson
Hurlock, Asa (Comp., Gravel & Slate),
208 McKean
Hushen, Michael, 1903 Pine
Husted, Dorsey G., 144 Brown
Itzstein, Fredk. J., 1217 N 4th
Jacobs, E. L., 7137 Germantown av
Johns, H. W.-Manville Co. (Asbestos), 23 N
Johnson, T. S., 622 Cherry 2d
Jones, Evan, 5114 Lancaster av
Jones, Joseph, 2118 Germantown av
Josopait, F. W., 314 Poplar
Kanter, Samuel, 436 Poplar
Kastrup, Charles, 1104 S 8th
Kaucher, Fredk. M., 2724 N 5th
Keenan, Jos. (Comp., Gravel & Slate), 2860
N Reese
Kendig, Walter W., 4634 Lancaster av
Kensley, R. E., 2531 Brown
Keohane, John J., 1637 N 13th
Kershaw, Thos. & Son, 4528 Lancaster av
Keystone Roofing Co., 2217 N 12th
Kimes, Jessie B. & Co. (Slate, Gravel &
Camp.), 1822 Filbert
Kirst Bros., 434 Spruce
Klein, Fredk. R., 913 Diamond
Klemmer, John, 3149 Richmond
Knodel, Emil, 7 Girard av

Knowlan, James (Comp., Gravel & Slate),
Kolh, Michael, 3634 N 5th 45 N 13th
Kornbau, Herman, 717 Oxford
Kramer, Jacob, 128 Cumberland
Krause, Simon, 906 N 3d
Kulzer, Michael, 433 Cambria
Kunkely, O. F., 1710 N 27th
Kunz & Henrichs, 907 Locust
Ladner, W. G., 601 Spring Garden
Lambert, Jno. H. & Son, 2226 E Cum-
berland
Lanning, Jos. M., 3000 Cumberland
Larrimore, Jas. T., 1800 N 12th
Lewis, Hubert W., 2009 E York
Lewis, J. C., 5727 Race
Lienemann, Fred'k B., 1610 S 6th
Limerick, Hunter J., 1544 Christian
Lindgren, J. V. (Comp., Gravel & Slate),
606 S 17th
Lowry & Lynch, 1508 Ridge av
Lupton's, David Sons Co., Allegheny av. &
Tulip
Lynch, Jno. F., 133 E Cheltenham av, Gtn.
McCall, Jno. P., 2646 Oakford
McCarthy, J. J. & Son, 3933 Market
McCartney, T. J. & Co., 1731 Christian
McCarty, J. F. (Gravel, etc.), 2306 N 29th
McCormick, Edw., 1927 South
McElhiney, Jas., 3616 Lancaster av
McFassel, E. M., 4801 Woodland av
McGrath, Edw. (Slate, Gravel & Comp.),
1534 Fkd. av
McGrath, Thos. J. & Co. (Slate, Gravel,
etc.), 1930 N-2d
McGulgan, Chas. F., 1845 Huntingdon
McKee Roofing Co., 1437 N 19th
McKee, Thos. J. (Comp., Gravel & Slate),
1508 N American
McKenna, John (Comp., Gravel & Slate),
1827 E Somerset
McMurtrie, John S., 525 N 9th
McSorley, Frank J. (Comp., Gravel &
Slate), 113 N 6th
McVeety Bros. (Gravel, Slate, etc.), 1536
Seybert
Mahood, Wm., 1742 Callowhill
Manlove, Alfred P. C., 1900 S 7th
Margerum, George, 2745 Kensington av
Marples, T. E., 2509 Fkd av
Marks, Gardner, 1131 S Broad
Mason, E. J. (Comp., Gravel & Slate),
263 S 12th
Mattheisz, J. H., Jr., 2519 Girard av
Mauer, Wm. F., 1214 Girard av
Mays, A. B., 2242 N Chadwick
Meade Roofing & Cornice Co. (Slate, Metal
& Tile), S 45th nr Woodland av
Mearns, Joseph B., 267 S 10th
Messick, W. H. & Son, 1338 S 6th
Meyer, H. F., 1627 Federal
Mills, A. W., 1107 S 47th
Monaghan, Peter J., 1134 Dauphin
Mooney, Edw., 2325 N 30th
Moore, George E., 1332 Oxford
Moore, Jas. R., 3003 Gransback
Moore, Jno. E. & Son, 765 N 20th
Moore, Robt., 1711 McKean
Morrison, Andrew G., 1619 Bainbridge
Morrison, J. W., 8014 Fkd. av
Mote, James L., 325 Race
Mothner Asbestos Co. (Asbestos, etc.), 815
Washington av
Mueller, G. Arthur, 1910 Gtn. av
Muller, Frank, 3326 N 5th
Mulholland, J. & Bro. (Slag), 2149 E Firth
Munro, H. F., 1740 Gtn. av
Murphy, Albert, 301 N 20th
Murray, Albert M., 529 Callowhill
Murray, Hy. H., Glenwood av c N 22d
Murray, M. S., 1640 York
Murray, Wm. M., 3516 Haverford
Murray, Wm. & Son (Comp., Gravel &
Slate), 3625 Haverford
Musselman, Oscar L., 1752 Hunting Park av
Nace, Henry J., 308 N 3d
Naegel, Jno. A. (Tln), 5622 Germantown av
Nagel, Fredk., 1528 N 4th
Neiman, Warren, 1808 Adams
Noone, And'w J., 1635 Venango
Oberholtzer, G. P., 949 N 12th
Oldroyd, F., 2455 N 5th
O'Neill, Emmett, 4223 Frandford av
Ott, John P., 1525 S 8th
Ottinger, Henry & Co., 2125 Market
Pangborne, Jas. H., 2015 N 18th
Patterson, Jos., 2526 N Front
Penn Metal Ceiling & Roofing Co. (Ltd.),
23d c Hamilton
Perkinpine, Jos. R., 814 Girard av
Petric Paving & Roofing Co., 3345 Market
Phila. Plumbing & Heating Co., 221 N 11th
Phipps, George, Van Dike nr Disston, Tac.
Phy, John B., 835 N Holly
Pohl, E. Otto, 235 S 3d
Preston Cornice Co., 4219 Market

Prlest, J. S., 4450 Mitchell, Rox
 Qulgley, J. J. & Sou, 1342 Ridge av
 Quinn, Thos. N. (Comp., Gravel & Slate),
 5722 Knox, Gtn.
 Randolph & Boyce, 1749 S 4th
 Rath, Jacob, 6218 Boynton, Gtn.
 Raynor, Wm. C., 1815 S 11th
 Read, Wm. N. (Metal, Slate, Tile, etc.),
 Reeder, Geo. A., 1213 N 5th 30 N 7th
 Reichman, Geo. F., 3053 N 15th
 Reld, P. J., 1952 N 4th
 Reuss & Curran, 4524 Baltimore av
 Rhoads & Maloney, 429 N 3d
 Richards, Edw. W., 2029 Frankford av
 Richter, John H., 3017 York
 Rickert, Wm. J., 2260 N 5th
 Rltter, H., 1446 N 10th
 Robertson, Jas. G., 6375 Germantown av
 Ross, Lewis P., 2429 E Norris
 Ruger Bros. (Slate, Gravel & Metal), 1434
 Germantown av
 Sablin, F. & Co., 121 N 2d
 Saffian, Leon, 1016 Girard av
 Salb, Wm., 148 Fairmount av
 Saling, G. A., 4045 Lancaster av
 Schleifer, Jacob E., 1323 Hancock
 Schmltdt, Hy. (Slate, Gravel, etc.), 3435
 Richmond
 Schmidt, William C., 1326 Colwyn
 Schultzer, Chas. H., 215 N 2d
 Schreiber, Wm. H., 410 S 12th
 Schuehler Bros., 142 Edward
 Schwakopf & Highland, 725 Spring Garden
 Schweiker, Wm. G. (Comp.), 2623 Jefferson
 Schwickerath, Chas., 530 Girard av
 Schwinu's, Geo. W. Sons, 1416 W Dauphin
 Selzer, Henry R., 1806 Poplar
 Seybert, Henry G., 1007 Christian
 Shaanon, H. J. (Comp., Gravel & Slate),
 1710 Federal
 Shannon, Jas., 2237 S Hicks
 Sheridan, Jos. F. (Slate, Gravel, Metal &
 Comp.), 1909 Dickinson
 Shubert, Geo. W., 3531 Market
 Simpson & Murray (Slate, Felt, Gravel &
 Metal), 1719 Christian & 2019 Columbia av
 Smilh & Shuster, 1318 Girard av
 Smilh, George, 206 E Indiana av
 Smith Horace, 5008 Ditman, Pkd.
 Smith, H. L., 1011 N 6th
 Snyder, Charles S., 3366 Amber
 Snyder, John A., Jr., 2016 Ranstead
 Souder, Theodore, 420 York
 Spire, Harry (Comp., Gravel & Slate), 2736
 Steele, Chas., 2119 Fitzwater Ruth
 Still, Wm. W., 8053 Fkd. av
 Stumm, Chas., 1433 S 2d
 Sutton, Joseph R. E., Green la, bel York rd
 Taylor, Frank W. & Son, 259 S 4th
 Taylor, Juo. H., 734 S 8th
 Thomason, Wm. J. & Sons, 108 Arch
THORN, J. S. CO. (Copper, Iron,
etc.), 20th & Allegheny av. (See adv. in-
dex, end of book)
 Tierney, John J., 2023 St. Albans
 Tomes, Eugene, 234 Diamond
 Turner, Richard, 162 E Chelton av, Gtn.
 Uffelman, Charles C., 13 N 21st
 Viebmann, Geo. L., 2122 South
 Walnwright, John W., 4633 Pkd. av
 Wallen, A. J. & Son, 1947 Wharton
 Ward, Hy., 73 E Wister, Gtn.
 Warren-Ehret Co. (Comp. & Slag), Land
 Weekly, Thos. J., 1922 S 7th Title hldg
 Welss, Fredk. J., 2305 N 7th
 Welsh, P. J., 1117 S 20th
 Wenzell, Geo. E., 1128 Girard av
 Werner, Wm., 2136 N 2d
 Widmaier, Gustav, 507 Susquehanna av
 Wilhelm, Theodore, 128 N 16th
 Wilkins, Hy., 627 York
 Williams & Son, 2203 Frankford av
 Williams, Ralph, 2450 Montgomery av
 Williams, Robt. C., Jr., 1907 Columbia av
 Williams, Wm. E., 28 S 18th
 Wise, Edw., 419 Fairmount av
 Wohlfarth, Herman J., 218 Arch
 Wright & Wells, 5213 Market
 Young, Albert E., 1648 Orthodox
PHILIPSBURG—Bortel, Geo. E.
 Travel, Wm. H.
 Musser, Robert
PHOENIXVILLE—Caswell & Moore (Slate,
Metal & Corrugated Iron)
 Sturges, Wm. E. (Slate, Felt & Metal)
PITTSBURG—Alter, Hiram A., 222 Brushton av
 Angermeyer, William F., 704 Homewood
 Belter, Fred., 243 1st av
 Belmar Heating Co., 112 N Murland
 Bindley Hardware Co., 429 7th av
 Brauenstein, M., 112 Crawford
 Brewer & Tyhurst (Slate), 113 Manton
 Burns, John, 434 4th av
 Champ, W. H., 805 Lincoln av

Cromie, J. & Co., 516 Lincoln av
 Davis Roofing Co. (Gravel), 6376 Frankstown
 Doran, W. T. & Son (Gravel), La Place nr
 East End Cornice & Roofing Co., Berlin &
 Frankstown av
 East End Roofing Co. (Gravel), 7233 Hamill-
 ton av
 Echement, Aug. A., 208 Grandview av
 Ehmman, J. W. (Gravel), 1637 Forbes

GILMAN SNOW GUARD

105 Merrimac, Boston, Mass. (See adv.
 index, end of book)

Graff Bros., 5912 Penu av
 Hahn Bros. (Slate, Tin, Tile & Gravel),
 Henle, Albert S., 1336 Penn av 3 Magec
 Henzel, C. H., 3217 Penu av
 Hite, F. A. & Co., 5987 Center av
 Hoffman, Philip (Slate & Comp.), 3313
 Hughes, T. M., 5983 Center av Ward
 Johnson, A. H., 605 Grant
 Johnson, Frank R., 4 Industry
 Keigbley, S. Metal Ceiling & Mfg. Co.
 (Slate Metal), 819 Locust

Kim, Geo. F., 3525 5th av
 Kincaid Bros., 211 Water
 King, I. J., 532 Grant
 Kirsch, Jacob, 3234 Penn av
 Klein & Tauenfield, 16 Townsend
 Kunzler & May (Gravel), 55 S 10th
 Lamneck, Daniel (Tin), 57 Boggs av
 Le Gouillon P. (Slate, Tile, Asphalt, Gravel,
 Actinolite & Slag), Bessemer bldg
 Lehne, Fredk., Jr., 36 Southern av
 Liberty Roofing Co. (Tin), 6900 Frankstown
 Liebelt, Henry (Slate), 23 Bigham av
 Logan, C. W., 335 Lincoln av
 Luckhardt & Crist Co., 543 4th av
 McCombs, Wm. M. (Gravel), 2101 Carson
 Miller, Morris J., 5147 Butler
 Miller, S. J., 6630 Brainerd
 Morgan, O. C., 6413 Frankstown av
 Niele Bros. (Tin & Slate), 4326 2d av
 Nobbs, G. C., 2520 Smallman
 O'Halloran & Jacobs (Slate), Park bldg.
 Panner, L. & P. (Slate & Tin), 184 Main,
 W E

Papencordt, Walter, 32d & Smallman
 Perritt Iron & Roofing Co., 6 Brushton av
 Pfeiffer, Hy. J., 80 S 15th
 Phillips, Jno. (Gravel), 1229 Lincoln av
 Rasner & Dinger Co. (Tin), 100 2d av
 Ray, Edward E., 7215 Tioga
SCAIFE, WM. B. & SONS CO., 221
1st av. (See adv. index, end of book)

Schwartz, F. W., 614 Wylie av
 Schwartz, Nicholas, Jr., 611 Wylie av
 Seebansen, H., 7732 Frankstown av
 Stover & Sou, 4816 2d av
 Sweitzer, Harry W., 7632 Baxter
 Totten, W. R., 3650 5th av
 Walker & Wilcox, 5104 Penn av
 Warren-Ehret Co. (Slag, Asphalt & Actino-
 lite Tile), Arrott bldg
 West, John (Slate), 6442 Aurella
 White, Chas. F., 1107 Carson
 White, Scott A. (Tile, Comp. & Slate),
 Lewis bldg

Whitehead & Co. (Gravel), 2121 Carson
 Whitney & Briley, Wylie av & Roberts
 Williams, J. A. & Co., 1408 5th av
 Young, J. F. (Gravel, Iron, etc.), 34th &
 A. V. Ry.

PITTSBURG—Ash, Jno. M. (estate of), 115 N
 Ryne, Jno. W.
 Edwards, Thos. H.
 Oliver, H., 50 S Main
 Smith, F. C. & Co.

PLYMOUTH—Dymand, E. P.
 Jacob, Alex.
 Klanansky, Jacob
 Morris, John M.
 Parry, W. W. (Slate)
 Spry, Josiah F. (Slate)

POTTSTOWN—Faber, George (Slate & Metal)
 Gelst, Howard W.
 Geyer's, W. R. Sons (Comp.)
 Hartenstine, Emery & Co.
 Kepner, C. G.
 March, Daniel
 Mowery, P. G.
 Reldenouer, Thos. S.
 Tarnish, L. F.

POTTSVILLE—Derr, Simon Stove Works, N
 Dimmerling, Frank Norwegian
 Ent, H. C.
 Herbrick & Co.
 Hill, Howard
 Hoefel, Frederick
 Hoover Co.
 Lamont, Winfield S., 315 N 2d

Morris, Jos. E., 209 W Arch
 Schlumpf, Geo. J.
 Shugars, Hiram, 322 N 2d
PUNXSUTAWNEY—Robinson Hdw. Co.
QUAKERTOWN—Dengler, Jas. A.
 Gross, Albert S.

READING—Bitting, W. H., 251 Penn
 Boltz, I. M. (Slate), 631 Pear
 Crosby, Wm. T., 429 S 10th
 Dauth, Arnold, 46 Cedar
 Dauth, Jno. P. & Son, 18 S 8th
 Dauth, Herman
 Ganter, Jos. B., 201 Schuylkill av
 Gantert, Howard, 450 N 11th
 Geissler, H. C. & Sons, 731 Penn
 Graul, Chas. F., 905 N 9th
 Grlesemer, C. K. (Slate), 37 N 6th
 Homan, N. E., 114 S 6th
 Keever, E. F. (Slate), 930 Franklin
 Lance, J. A. (Slag)
 Luigard, Jno., 420 1/2 Court
 Mengel, M. L.
 Mercer, Albert W.
 Miller, James L.
 Miller, M. L., 230 Washington
 Otto, J. (Es.), 643 Penn
 Prutzman, Walter, 304 Penn
 Rankin, R. A., 700 N 9th
 Rapp, William S.
 Reaser, Lewis
 Reist, Reuben H.
 Renninger, W. Irvin, 620 N Front
 Ruth, Daniel H.
 Sausser, A. B. & Co., 328 N 6th
 Sechler, C. M. (Slate), 1239 Moss
 Sholl, John
 Sohl, Daniel H.
 Speice & Lewis, 444 Court
 Wagenhorst, Frank (Est. of)
 Wilson, R. L. Roofing & Paving Co. (Slag)
 Yeager, Wm. B. (Slate & Metal), 8th &
 Chestnut

PINE GROVE—Long, J. L.
PITCAIRN—Barnhart, W. N.
PLAINS—Wilson, John
PLEASANTVILLE—Corwin, B.
 Mapes, H. C.

PORT ALLEGHANY—Gallup Hardware Co.
PORT CARBON—Brenner, Alfred E.
PORTERSVILLE—Heberling, H.
RED HILL—Reiter, Edwin
RED LION—Boeckel, W. F.
 Lichtenberger, Wm.

REEDSVILLE—Hcaps, Davis I.
RENOVO—Cross, Dell
 Ridgway—Bowen, S. E.
 Smilh Bros. Co., Ltd.

RIMERSBURG—Kaster, P. M. (Slate)
 Stewart, B. B. (Slate)

ROCHESTER—Fleming, R. D.
 Hartzel, Jno. W. (Slate & Metal)
 Rochester Hardware Co.
 Schmidt, W. F. (Slate & Metal)

ROSEMONT—Seidel, W. W.
 Shank, C. Ernest

ROYERSFORD—Buckwalter, J. A.
 Reed, Jacob & Son
 St. Clair—Wagner, G. B.

ST. MARYS—Burden-Rowan Co.
 Sosenheimer, F. X.

SALTSBURG—Moore, J. C.
 Shadle, C. C. & Son
 Walter, J. H.

SANDY LAKE—Farrar, C. M.
 SAYRE—Talmadge, H. R.

SCENERY HILL—Hedge, T. A.
SCHUYLKILL HAVEN—Sausser Bros.
SCHWENKVILLE—Saylor, Beuj. S.
SCOTTDALF—Dick, John I. (Slate & Metal)
 Miller, L. A. & Bro.
 Urber, H. F.

SCRANTON—Cowles, William C., 1842 N Main
 Dolphin, Martin H. av
 Doyle, Jas. B. & Co.
 Gunnster Bros.
 Howley Bros. (Felt & Metal), 338 Penn av
 Kempster, Conrad
 Kiesel, Fred
 Klein, Benj.
 Lennon & Co.
 Leonard, T. F., 505 Lack. av
 Lewis, Thomas E.
 Maddock, Hopkin
 Maloney, Jas. P. & Co.
 Monies, Geo. B.
 Murray, James J., 432 Lackawanna av
 Myers Bros.
 Prawdick, Ignatz P.
 Quinn, Jas. E., 436 Larch.
 Reymann, John
 Riefenherg & Co.
 Scranton Slate & Tile Co.
 Warren-Ehret Co. (Composition & Slag), 321
 Wolf & Wenzel N Wash'n av
 Yoos & Hess

SEWICKLEY—Bowers, W. C.
Drynan, A. & Sons
McDonald, Geo. R.
Shoop, S. T.

SHAMOKIN—Ballentine & Taby
Keiser Bros.
Smith, A. & Son
Thomas, C. B.
Unger, Warren
Weaver, Jos. J.
Yocum, Geo. C. & Co.
Zanker, A.
Zuern, Mrs. Kate

SHARON—Hannah, R. A. & Co.
Hoffman, J. C. & Bro. (Slate & Metal)
Hoffman, P. & Sons (Slate & Metal)

SHARPSBURG—Hough & Dyer
Meyer, W. H. (Slate, Metal & Asphalt), 24
7th
Weisenstein, Mrs. E. D. (Slate & Metal),
14th & Main

SHENANDOAH—Bell, P. W.
Deaney, Patrick
Drumheller, William
Ellis, Daniel, Jr.
Hilderbrandt, Charles
Leach, M. J.
Morgan, Isaac
Pratt, W. R.
Waters, T. C.
Willman, G. F.

SHERIDANVILLE—Marlier & Stewart (Slate,
SHICKSHINNY—Campbell, H. E. Tin, etc.)
Woodworth, J. D. & Co.

SHIPPENSBURG—Hykes, William M. & Bro.
Rebuck, R. M.

SIEGFRIED—Beer, M. C.
Keck, M. F. S.

SLATINGTON—Dettmer & Handwerk
Fritzinger, Wm. A.

SOUDERTON—Alderfer, H. S., Jr.
Wolford, B. D.

SOUTH BETHLEHEM—Bittrick, L. F.
Laufer, Milton
McBride, M. J. & Co.
Meyers, A. V.
Quier, H. F.

SOUTH SHARON—Davidson, J. E. (Slate &
SPRING CITY—Macfeat, Jno. H. Metal)
Mowrey, Latshaw Hardware Co.

STOCKERTOWN—Miller, Thos. A.

STROUDSBURG—Flory & White
Hood, S.
Pierson, John F.

SUNBURY—East End Hdw. Co.
Reed, Edw. D.
Reitz, I. J. (Slate)
Wagenhorst, J. H.
Waltz, Henry J.

TAMAQUA—Hadesty, J. M. & Son
Hodgkins & Co.
Reeser, E. R.

TARENTUM—Aiter, W. S.
Baker, David
Baker, J. C.
Goldinger, G. W. & Co. (Slate)
Goodwin, W. F.

TAYLOR—Jones Hardware Co.
Morgan, J. Milford

TELFORD—Hangey, Jonah T.

TIDIOUTE—Magill, B. S. & Son

TITUSVILLE—Anderson, A. P.
Besselman, J. H.
Hughes, D. D. & Son
Kernochan & Co.
Spitler, Henry
Zook, D. M.

TOWANDA—Dye & Bresee Hardware Co.

TROY—Beardsley & Colony
Dobbins, John E.

TUNKHANNOCK—Billings, Paul & Son
Shook, B. H.
Williams, A. P. & Co.

TURTLE CREEK—Kelly, A. M.
Reid, R. G.
Winters, W. L.

TYRONE—Fisher, J. W. (Gravel & Comp.)
Mullen Bros.
Neil, E. R.

UNION CITY—Hatch Hardware Co.
Hayes Hdw. Co.

UNIONTOWN—Collins, N. N.
Field, E. R.
Kefover, G. B.
Miller & Co.

UPLAND—Morris & Grimison

WARREN—Mott-Phillips Hdw. Co.
Pickett Hardware Co.
Slater, T. O. & Co.
Spinner, Wm.

WASHINGTON—Brice Bros. (Slate & Metal)
Charcoal Iron Roofing Co.

Hays, G. W. & Co.
Manrow & Reynolds
Phillips, Chas. W. (Metal & Slate)

WATERFORD—Henry, J. B. (Slate)

WATSONTOWN—Knight, F. H.
Shannon & High

WAYNE—Dunne, Peter J. (Slate, Tile & Metal)
Higgins, John
Thomas, Harry R.

WAYNESBORO—Adams, Wm. G.
Frey, C. B.
Miller, Bert.
Russei, Geo. H.

WELLSBORO—Haussier, F. A.
Mitchell, W. S.
Roberts & Gardner

WEST CHESTER—James Bros.
Palmer, Geo. J.
Smith, R. H. (Slate)
Speer, J. H. (Slate)

WEST GROVE—Johnston, Hugh M.

WEST NEWTON—Holbert, W. R.
Montgomery, S. K.
Sanders, C. W.

WEST POINT—Fenshtermacher, J.

WHITE HAVEN—Keck Hardware Co.
Miller, Theo. & Son

WILKES-BARRE—Baab, Frank, S Main &
Academy
Carpenter, B. G. & Co., 30 W Market
Conner, Harry
Edwards, Morris S., 137 S River
Jones, Owen D. (Comp. & Slate), 38 Balti-
Kaiser, Wm. & Son, 153 S Main more
Llem, J. W. & Co., 215 S Main
Montanye, J. H., 36 N Main
O'Rourke, Bernard F., 320 Harzle
Schuler Bros., 76 Hazle av
Spangelberger, Parry & Co., 642 S Main
Struthers, J. R.
Turner & Van Scoy, 52 S Main
White Hardware Co.
Williams, Chas. M., 3 S Meade
Williams, Robert P. (Slate, Gravel & As-
phalt), 23 Hakes av

WILKINSBURG—Blackhall, Alex.
Blackhall, James
Britner, E. M. (Slate), South av & P R R
Cruzan, Elmer E., 421 Kelly av
Kearns, H. Clifford, 805 Penna av
Kurtz Bros. (Slate & Metal), 706 Rebecca av
Marsh, B. & Son, 744 Penna. av
May, Jno. D., 755 Rebecca
Seybold, A. E., 520 South av

WILLIAMSPORT—Bailey & Fries
Blaisdel, Frank W. (Slate), 641 Cherry
Bousch's, J. P. Sons, 148 Academy
Cockburn, Anthony
Ernest, Galen
Fisher, Charles K.
McLees & Forsburg, 771 W Edwin
Murray, W. A., 1137 Vine
Rothrock, Joseph G., 207 Market
Schmidt, Henry S., 622 Campbell
Stopper, L. D., 428 Hepburn
Weaver, O. B.
Welteroth Co., 329 Washington
Williamsport Hdw. & Stove Co., 750 W 4th

WIND GAP—Delp, Jo. J.

WRIGHTSVILLE—Birnstock Bros.
Wrightsville Hardware Co.

WYNCOTE—Tyson, Edwin

WYNDMOOR—Alman, Arnold (Slate & Metal)

YORK—Aughenbaugh, George H. (Tin)
Baker, M. H.
Bare, P. J.
Bayley & Schall (Slate & Metal)
Behler, F. W.
Blum & Eyster
Bush, George E.
Conoway, Samuel T. (Metal)
Erion, Jacob H.
Getz, Jno. Sons
Hantz, C. Edward
Heckert, D. P.
Heckert, E. P.
Householder, H. S.
Kidd, Alex. (Tin)
Kottcamp, C. C. & Son (Slate)
Kraber, B. I. & Son, 214 W Market
Kuehn, Jacob L.
Leonard, Wm. H.
Lichtenberger, Charles
Moul, Geo. H. (Slate)
Rodgers, Abner A.
Schall, William J.
Selak, Harry J.
Smith, Edward A.
Smith, H. E., 203 W Market
Stillinger, Charles
Thatcher, Martin
Voss, John A.
Wantz, Milton A.
Weigel, Harvey E.

Wise, Chas. V.
York Corrugating Co.
Ziegler, John A. C. (Slate)

YOUNGSVILLE—Mead & Fisher

ZIEGLERSVILLE—Shaner, Irwin S.

RHODE ISLAND.

BRISTOL—Bullock, R. D. (Gravel)
McGann Bros.
Waidron-Browell Co.

CENTERVILLE—Clark, S. M.
Wilbraham, C. A.

CENTRAL FALLS—Allerson, Jos.
Martln, A. P. & Co.

EAST GREENWICH—Sharpe, W. R. Hardware
Co.

EAST PROVIDENCE—Crane, Jno. & Co.
(Gravel, etc.)

HOPE VALLEY—Rogers, Walter

NARAGANSETT PIER—Bristow, Jno. (Comp.
NATICK—Dailey Bros. & Gravel)

NEWPORT—Bliss, Herbert, 48 Touro
Covell, Wm. K., Jr., 163 Thames
Gillies, Jno. (Slate, Tile & Gravel), 16 W
Goddard, C. P. Narragansett av
Goddard & Barlow, r 200 Thames
Hart, J. H.
Marden, Jas. F., 328 Thames
Nason, U. G.
O'Brien, George
Shepley, Wm. & Son
Walsh Bros., 222 Thames

PASCOAG—Smith, James H.

PAWTUCKET—Carpenter, E. P. & Co., 28 N
Davis, Frank, 404 Main Main
Degnan, Wm. F.
McParlin, Owen, 24 East av
Maguire, J. T. Co. (Slate, Gravel, etc.), 118
Spring

Pawtucket Roofing Co., 54 Coyle av
Reetz, Robert C.
Thornley Bros. (Gravel), 265 Lonsdale av
Wilson, S. C. & Son, 29 High

PEACEDALE—Doane, Felix
Hodge E. S. (Slate & Metal)

PHENIX—Haywood, Charles
Snell, Byron A.

PROVIDENCE—Ailenson Bros. (Metal), 9
Steeple
Appleton & Lee, 1880 Westminster
Ballou, F. M. & Co. (Felt & Gravel), 1323
Beil, Hy. G. 9 Haymarket Broad
Braley & McLaughlin, 171 Washington
Brunckow, C. G. Co. (Corrugated Iron,
etc.), 223 Globe

Bullock, Eben G., 361 Washington
Capron, M. R., 24 Chalkstone av
Carney H. & Co., 1088 Broad
Cartier, M. N. & Sons Co. (Gravel), 293
Catrell, Jas. E., 146 Smith Canal
Chase, S. Frank, 25 Randall

CLASON SNOW GUARD

CLASON ARCHITECTURAL MET-
al Works (Slate, Metal, etc.), 428 Kinsley
av. (See adv. index, end of book)

D'Amario, Antonio, 210 Atwell's av

Deacon, James, 71 S Main

Enterprise Cornice & Skylight Works, 27
Bassett

Greene, R. L. Paper Co. (Asbestos, 69
Washington

Harris, Clayton (Slate, Copper & Tin), 281
Holland, Frank, 104 Gesler Canal
Jones, W. H., 506 Pine
Judd, James J., 231 Smith
Kellogg, A. O., 250 Eddy
Lamoureux, F. & Co., 39 Friendship
Lockwood, H. B., 115 Wentworth av,
Edgewood

Lovegrove & Burlingame, 955 Westminster
Westminster

Moore, J. W. Co. (Gravel, Asbestos, etc.),
Morse, F. W., 121 Dyer 143 Allen's av
Nash, Thos. H. J., 706 Craston
N. E. Ventilating & Heating Co., 928 Man-
ton av

Providence Arch'l Metal Works, 237 Dyer
Providence Concrete & Roofing Co., 35
Westminster

Providence Cornice Co., 311 Canal
Providence Slate & Gravel Roofing Co.
(Slate & Gravel), 55 Fountain

R. I. Concrete Co., 3 Custom House
R. I. Cornice Co., 76 Point
Sampson, J. A., 10 Summer
Shapiro, N. & Co., 8 Steeple
Smith Concrete Co., 19 Ridge
Strauss Co., 280 Eddy

Tracy, Wm. M., 330 Dean
Tyrrel, J. A., 178 Eddy
U. S. Concrete Co. (Asphalt & Gravel),
Banigan bldg
RIVERSIDE—Brownell, Purdon W.
TIVERTON FOUR CORNERS—Wilcox, Fred.
WAKEFIELD—Sheldon, John L.
WARREN—Lent & Barry
Pardey, H. O.
WESTERLY—Chester, A. L. & Co.
Jordan, A. R.
Thorpe, Job
Westerly Concrete Co. (Tar, Gravel &
Willard, C. W. Hardware Co. Asphalt)
WOONSOCKET—Arnold, C. O.
French, Oliver P. & Son (Slate, Metal &
Gobellie, F. J. Gravel)
Mulvey, B. F. & Co.

SOUTH CAROLINA.

ABBEVILLE—Abbeville Hdw. Co.
ANDERSON—Archer & Acker
Burris & Divver
CHARLESTON—Arnot, A. M., 172 Queen
Beard, J. T., 608 King
Blake, C. W., 206 King
Droze, E. M., 553 King
Masters, E. M., 127 King
Morris, R. J., 127 King
Regan, J. J., 202 King
Shepard Supply Co., 232 Meeting
Smith, J. E., 117 King
Williams, T. J., 1 Archdale
CHESTER—Murr, W. H.
COLUMBIA—Lorick & Lawrence Co. (Slate &
Palmer, A. D. Metal)
DARLINGTON—Welling & Bonnaitt
FLORENCE—Boinest, C. L. Hardware Co.
GAFFNEY—Carroll, Carpenter & Byars
GEORGETOWN—Ellis, D. L.
Haselden & Co.
GREENVILLE—Barr Hdw. Co. & Roofing Co.
Cook, J. A. (Slate & Gravel)
GREENWOOD—Sproles, J. W.
LAURENS—Boyd, S. S.
Boyd, W. L.
Laurens Hdw. Co.
LOWNDESVILLE—Horton, E. R.
NEWBERRY—Johnson, Wm.
White, J. W.
ROCK HILL—Bailey, J. F.
Westerlund, J. W. (Slate, Gravel & Metal)
SPARTANBURG—Ezell, S. B.
Milster, W. A.
Montgomery & Crawford
SUMTER—Brailsford, E. T.
Scaffe, T. C.
UNION—Murray, T. A.

SOUTH DAKOTA.

ABERDEEN—Champlin, R. L.
Dow, Distell & Dow
Koch, Wm. H. & Son (Metal & Comp)
White Hdw. Co.
CANTON—Sioux Valley Hardware & Imple-
ment Co.
Treat, F. H. & Son
CHAMBERLAIN—Metcalf, T. A.
DEADWOOD—Wilson, Kinney & Co.
HOT SPRINGS—Gillespie & Co.
LEAD—Coolidge & Bros.
MADISON—Kundert & Fitzgerald
PIERRE—Calhoun, W. E.
Greenough, Louis
Westlund, Ole
SIOUX FALLS—Booth, R. J. (Slate, Metal &
Hackman, E. W. Hdw. Co. Gravel)
Larson Hdw. Co.
Rummel Bros.
Stallman, Jno.
WATERTOWN—Brickle, L. E.
YANKTON—Gross, D. D.
Sampson, O. E.
Strube & Rathgeber

TENNESSEE.

ATHENS—McGaughey, Jno.
BRISTOL—Bare & Skates Mfg. Co.
Brewer's, W. P. Sons
Conner, Leslie & Collins
Mitchell-Powers Hardware Co.
Harris, G. C.
Sweet, T. E. A. (Slate & Metal)
BROWNSVILLE—Forrest & Dupree
CHATTANOOGA—Rush & Co.
Chattanooga Roofing & Foundry Co.
Goodlake, C. W., 813 Broad
Green, W. T.
Holston, F. A.
McMahon, Jas.

Mountain City Stove & Mfg. Co., 623
Market
Snow, T. A. Heating & Roofing Co. (Slate &
CLARKSVILLE—Elder, J. Ernest Metal)
Kincannon & Bro. (Iron & Tin)
Mehlgan, C.
CLEVELAND—Hawk, R. H.
Tipton, E. C.
CLINTON—Mitchell, W. B. & Bro.
COVINGTON—Hanson, H. C. & Co.
DICKSON—Anderson Hardware Co.
DYERSBURG—Chamblin & Patton
Dyersburg Hardware & Furniture Co.
FAYETTEVILLE—Blakemore, J. A.
Fayetteville Plumbing Co.
Hobbs, Dale & Briggs
Robertson & Goodrich
GALLATIN—House, Jas. & Son
House & Maddox
GREENFIELD—Brock, E. N. J.
Dudley, J. W.
HARRIMAN—Edington Bros.
Salys, Thomas D.
JACKSON—Anderson, G. C. (Metal & Slate)
Reavis, R. A.
JOHNSON CITY—Grubbs, Frank & Co.
Summers-Parrott Hardware Co.
White, S. B.
KNOXVILLE—Chandler & Co. (Gravel)
Cruze, John (Slate), 419 S Gay
Hatcher, Sam
Hill, Lloyd & Co.
McClung, Buffat & Buckwell
Morlarity, D. F.
Mundy & Gredig
Williams, G. R. (All Kinds)
MEMPHIS—Barbieri, W. J.
Bartholomew Roofing Co. (Asphalt, Gravel,
Felt, etc.), 412 2d
Burdick, A. W. & Co. (Slate & Metal), 22
Capps & Elsbury
Cubblins, F. D. (Slate & Metal), 402 2d
Dush, Louis
Edwards, J. J. & Co.
Eichberg & Lang Mfg. Co.
Fisher, J. A. & Son, 625 Greenlaw
Fritz, E. H. (Slate, Metal & Composition),
Harrison, W. I. 152 Front
Jones Bros.
Linehan, D., 558 Orleans
Nohsey & Schwab (Slate & Metal), 412 2d
Pine, W. A.
Richards, L. W.
Saino, F. L.
Wehmann, John H.
Wessendorff, Chas. (Slate, Tin & Iron), 196
Main

NASHVILLE—Adamant Stone & Roofing Co., 128
Blittner, I. S Front
Broad Street Stove & Tinware Co., 315 Broad
Cammerer, H. & Son (Slate & Metal), 227 N
Cooper & Shelton Market
Gray & Dudley Hardware Co.
Howell, Geo. W.
Jones & Hopkins Mfg. Co.
Kadel, L. J.
McDowell, J. P.
McInturff, C. C.
Minton & Wilson
Murphy, W. L. & Co., 129 N Market
Murray, E. T. & Co. (Slate, Tile & Metal),
167 N College
Nashville Chemical Co., 919 N Front
Nashville Roofing & Paving Co.
Nuckols & McKay Bros.
Parmer, H. E., 420 Deadrick
Phillips & Buttorff Mfg. Co., 217 N College
Phillips & Co., N Market, c Bank al
Regan & Frensley
Smith, Herrin & Baird
SOMERVILLE—Leach, W. H.
SPARTA—Hull, W. W.
TRENTON—Smith, C. F. Co.

TEXAS.

ABILENE—Daniel & Sbackelford
Hughes, Edw. S. & Co.
ALBANY—Taylor, J. C. & Co.
ALVARADO—Park, C. H.
Taylor, W. W.
AUSTIN—Arlitt, Max
Bintliff, Charles
Brush, George A. (Slate & Gravel), 900 Con-
gress av
Turner, H. L.
BASTROP—Starcke, R. & G.
BEAUMONT—Eastham, A. R.
BELTON—Hamilton & Kigley
Tulloch, R. E.
BIG SPRING—Kennon, W. S.
BONHAM—Nunn, N. N.
Wells, F. P.

BOWIE—Gardner, W. T.
McDaniel, R. W.
BRENNHAM—Lange Mfg. Co.
BROWNWOOD—Hurlbut Hardware Co.
Weakley Hardware Co.
CLARKSVILLE—Bagby, G. W.
CLEBURNE—Cleburne Hardware Co.
Goodwin, T. J.
COLORADO—McMurry, Y. D.
Moeser, W. H.
CORPUS CHRISTI—Heath, C. L.
Simmons, T. S.
CORSIANA—Fewell, C. L.
Johnson & Wood Hdw. Co.
Lee, L. H.
Tatum, W. M. Hardware Co.
DALLAS—Buckelew, O. O. (Comp.), 387 Main
Dougherty, M. F. & Son
Burke, Wm. D. (Slate & Metal), 128 N Akard
Hinckley, David G. (Slate & Tin), 604 S
Johnson, F. A. & Son Harwood
Jones, W. A.
King, T. F. (Gravel & Comp.), 241 S Hous-
Payne, Frank T., 588 Elm ton
Schultz, J. H. C.
Smothers, J. W.
DENISON—Dollahide & Harris
DENTON—Evers, A. F.
EL PASO—Bloom, H. F.
ENNIS—Blakey, J. & Co.
FORT WORTH—Atwell Cornice Co. (Tin,
Iron & Slate)
Bryce, Wm. (Felt, Gravel, etc.)
Coughlin, Thos. A.
Crouch Hardware Co.
Gibbons, H. B.
Little Bros.
Nash Hardware Co.
Nash & Hodgson
Waynock, Chas. N.
Wills & Tyson (Gravel)
GAINESVILLE—Calkins, David
GALVESTON—Fedder, Albert
Fredericks, W. G. (Tin & Iron), 2313 A v A
Hartel, Fred.
Miller, W. H.
Opperman, H. C., 1811 Market
Werner, Geo. P. (Slate & Metal), 1628 Wln-
GILMER—Croley, J. F. nie
Doughrate, Fred.
HILLSBORO—Smith & Tomlinson Co. (Metal &
Gravel)
HOUSTON—Bennett, M. D., 1212 Hardy
Blumenthal Bros.
Browne-McLaughlin Co. (Slate & Tile), 209
Eiseman & Beck Main
Hennion, A. G. (Gravel, etc.), 1617 Congress
Holtcamp, E. E.
Mackrell, Jas. L.
Necco & Eisemann (Slate & Metal), 703
Franklin av
Puls, H., Jr. (Slate & Metal), 1401 Wash'n
Schlom, M. J., 503 Preston av
Shannon, G. S., 905 Commerce
LA GRANGE—Hopper, G. B.
Strelthoff, Aug.
LAREDO—Deutz, A. & Bro.
Slos, Alphonse
McGREGOR—Lee, Wm. & Co.
MARSHALL—Logan & Whaley (Slate & Gravel)
MOODY—Clay, A. R. & Co.
ORANGE—Cox & Myers
Sabine Supply Co.
Wright & Son
PALESTINE—Weller, John & Co.
PARIS—Allen, M. F. Hardware Co.
Rettes, H. S. Hardware Co.
Hancock, J. H.
PITTSBURG—Hanna, S. L.
SAN ANTONIO—Cooper, J. W.
Dean, J., Jr.
Fischluger, Max
Jewett Cornice & Roofing Co., 203 Soledad
Peters, Aug., 604 Market
S. A. Sheet Metal Works, 115 Losyos
Walsh, T. P., 223 Losyos
White, Geo., 227 St. Mary
SHERMAN—Locke, J. M. & Co.
Opel, George
Roberts, Sanford & Taylor Co.
Sherman Plbg. Co.
Walsh Hdw. Co.
Wright, Wm. T.
SULPHUR SPRINGS—Miller & Miller
Wieggers, Theo.
TERRELL—McClung & Co.
Muckleroy & Dew
TEXARKANA—Chatfield & Buhrman Hard-
ware Co.
Hoffman Hdw. Co.
Texarkana Hdw. Co.
TYLER—Daglish-Merc & Mfg. Co.
Dinkle, J. C.
Roebuck & Son
VERNON—Hampton, Wm.

VICTORIA—Mackrell, W. H.
Praeger, Wm.
Sengele, A. T.
WACO—Goodall, Chas.
Lewis, W. S.
Strauss, Ed (Gravel)
Torbett & Germond
WEATHERFORD—Lowe-Carter Hdw. Co.

UTAH.

EPHRAIM—Jensen, F. Y.
LOGAN—Everton & Sons
Farnes, M. A.
OGDEN—Crosbie & Smith
Newman, W. E.
Simmons, J. C., 220 Wash'n av
PROVO—Blumenthal, H. G.
Fisher, Aug.
SALT LAKE CITY—Backman, S. C., 154 S
Backmann, W. J. 6th, W
Bywater & Groo
Cornforth & Pond, 257 S Main
Crofton, John
Johnson, J. A.
Kingdon Bros.
Mitchell, H., 71 S State
Neelands, Abraham, 69 W 1st, S
Salt Lake Cornice & Roofing Co.
Salt Lake Hdw. Co., 42 W 2d, South
Schoppe, F. E. & Co. (Slate & Metal)
Waish, A. H.

VERMONT.

ALBANY—Darling, J. B.
ALBURG—Sclver, F.
BAKERSFIELD—Grant, H. E.
BARNET—Wallace, Jno. S. T.
BARRE—Phelps Bros.
Prindle, Eugene A.
Reynolds & Son
Russell, O. C.
BELLOWS FALLS—Bodine & Davis
Pierce, Ned (Slate)
BENNINGTON—Hurley, James E. (Slate)
Potter, C. H.
Willoughby, H.
Winslow & Remington
BRADFORD—Libbey Bros.
BRANDON—Pheips, Chas. E.
BRATTLEBORO—Bailey, M. A.
Cox, A. V.
Fleming, Patrick
Galvin, Jno.
Hall, George H. (Slate)
Willard, Frank E. (Slate)
BRISTOL—Farr, S. D.
Wills, J. R.
BRIDGEWATER CORNERS—Johnson, W. D.
BURLINGTON—Blodgett, G. S. Co., 191 Col-
Buckley, W. H. & Co., 198 Main lege

CLASON SNOW GUARD

428 Kinsley av, Providence, R. I. (See
adv. index, end of book)
Hathorne, A. C. (Slate, Gravel & Metal),
133 S Winooski av
Moore, E. F. (Feit & Gravel), 144 College
CABOT—Drew, Jas. T.
CANAN—Watts, Samuel E.
CUTTINGSVILLE—Elitapene, H.
DANBY—Smead, W. D.
DERBY—Hay, Jno. C.
EAST CALAIS—Sanders, Geo. E.
EAST FAIRFIELD—Leach, F. P.
ENOSBURG FALLS—Burns, Jno. H.
ESSEX JUNCTION—Teachout, W. S.
FAIRFIELD—Perry, D.
FAIR HAVEN—Bryant, O.
Norton, B. H.
GREENSBORO BEND—Pope, J. H. Co.
HARDWICK—Hardwick Hardware Co.
HARTLAND—Fletcher, H. T.
HINESBURG—Reed, P. & Co.
JACKSONVILLE—Reed, E. P.
JOHNSON—Riddle Bros.
LONDONDERRY—Holt, P. R.
MANCHESTER—Lawrence, Geo. A.
MANCHESTER DEPOT—Davis, A. J.
MIDDLEBURY—Calhoun, A. & Son
Farnsworth & Co.
Stewart, J. H.
MONTPELIER—Barrows & Peck
Blanchard, F.
Peck Bros.
NEWPORT—True & Blanchard Co. (Slate,
Metal, Gravel, etc.)
NORTH FIELD—Spaulding, A. F. (Feit)
Tillotson, Geo. W.
PITTSFORD—Connally, Michael

POULTNEY—Horton, M. J. & Son
Jones & Roberts (Slate)
RANDOLPH—Lamson, J. H. & Sons (Iron &
TIN)
RUTLAND—Connelly & Loveland
Dunn Bros.
Landon, W. C. & Co.
Pratt, G. W. & Co.
ST. ALBANS—Green, S. C.
ST. JOHNSBURY—Farnham & Albee
Goss, C. H. & Co.
SPRINGFIELD—La Fontaine, Staples & Co.
SWANTON—Martin, H. F. & Son (Slate &
Asbestos)
Wead Hardware Co.
VERGENNES—Harrington, J. A. & Co.
Hudson, Robert
WATERBURY—Ayers, O. L.
Smith & Somerville
WEST RUTLAND—Pratt, G. W. & Co.
WHITE RIVER JUNCTION—Bagley, E. H.
Billings, Frank P.
Martin, A. C.
Nott, Hiram L.
WILLIAMSTOWN—Robinson, N. B.
WINDSOR—Reed, Samuel A.
Stone, Payson & Blake
WINOOSKI—Bigwood, S.
Shipman & Allen
WOODSTOCK—Pinney, B. H. & Co.
Wardwell, E. F.

VIRGINIA.

ABINGDON—Grim, D. S.
ALEXANDRIA—Baader, Hy. & Sons
Beach, Leroy, 210 King
Carlin, J. F. Sons & Co.
Crescent Compound Mfg. Co.
Hanrahan, Michael A., 626 King
Hoy, Thomas, 600 King
Mansfield, J. H., 515 King
Newton, C. M., 105 N Henry
Norris, Geo. A.
Waddy & Scott
BERKLEY—Hampton, J. M.
Meginley, W. C.
BERRYVILLE—Bowman, Isaac
Marks, J. W.
BLACKSBURG—Effinger, J. P. & Co. (Slate)
BLACKSTONE—Stokes, Williams & Co.
BRIDGEWATER—Smith & Hisey
Wine Bros.
BUENA VISTA—De Priest, Robert A.
CATLETT—Marks, B. F.
CHARLOTTESVILLE—Baxter, S. S. & Co.
Kelley, J. C. & Son
Martin, W. T.
CHATHAM—Whe, W. E. & Bro.
CHRISTIANSBURG—Smith, H. P.
CLIFTON FORGE—Coutts, Gordon
Smith & McKinney Hardware Co.
COVINGTON—Argenbright, J. F.
McNunn, J. B.
CULPEPPER—Thomas, W. A. Son & Co.
DANVILLE—Flynn, J. A. & Co.
Piedmont Hardware Co. (Slate)
Tyler, J. E. & Co.
Virginia Hardware Co.
FALLS CHURCH—Seay, Chauncey
FARMVILLE—Noel Bros.
Wall, H. E.
FRANKLIN—Pace, W. T.
FREDERICKSBURG—Cain, E. J. & Co.
Scott, J. F.
FRONT ROYAL—Forsythe, J. F. & Co.
Gilkey & Son
Striker, W. H.
HAMILTON—Myers, Nathan
HAMPTON—Copeland, Joseph F.
Council, J. C.
Williamson & Bridgeforth
HARRISONBURG—Saum, John R.
Saum, M. L.
JONESVILLE—Crowell, W. S. & Sons
Lee, O. C.
LEESBURG—Thomas, W. H.
Thompson, E. E.
LEXINGTON—Anderson, R. S.
Keffer, Giles
Rhodes, F. P.
LOUISA—Young, W. H.
LURAY—Campbell, J. W.
LYNCHBURG—Diuguld & Co.
Doherty & Casey
Dornin, Thomas B. Co.
Dornin & Daniel
Holloran, Jno. W.
Noel, M. B. & Son
Price Bros.
Snead, J. R.
MADISON—Teasley, Geo. R.
MANASSAS—Davis, A. P.
MANCHESTER—Burkert & Williams
Meighan, Chas. M.
MARTINSVILLE—Cheshire, J. W. & Sons
MONTEREY—Arbogast, C. O.
NEW MARKET—Crlm, G. W.
Roberts, J. W.
Tidler, E. E.
Wickes, H. G.
NEWPORT NEWS—Brittingham, O. J.
Lipman, I. & Co. (Inc.)
Newport Plumbing, Heating & Tinning Co.
Roth, Frank
Ryan, E. L. & Co.
Walker & Co.
NORFOLK—Addenbrook's, J. U. Sons (Gravel,
Felt, Cement), Monticello av & Wolfe
Banks, Geo. T. (Slate, Tile, etc.), 215 Mon-
ticello av
Barnard, W. H. & Co., 255 Main
Battley, Geo. W. (Slate & Metal), 341
Church
Bohn Roofing & Cornice Co. (Asphalt, Felt,
Slate, Metal, etc.), 11 Piume
Cachelin & Cherry, 345 Church
Foster & Smith Co.
Gibraltar Paint & Roofing Co.
Gilbert, C. R.
Godwin, E. C.
Harwell-Walker Co., 94 Brewer
Howard, John T.
Kavanaugh, Edw. P., 12 Union
Kiernan, Jas. V., 137 Bank
Mahone, Charles D. (Slate), 373 Church
Muller, W. B.
Shepherd, W. J. & Co. (Metal), 595 Church
Smith, Frank P. & Co. (Slate), 211 Monti-
Storey, F. G. cello av
Thomas, T. W. & Co. (Slate, Metal, Tile,
etc.), 31 Bank
Watson, Geo. E., 82 Wolfe
PETERSBURG—Bangley, N. J.
James, George W.
Johnson, J. R.
Johnson, T. J.
Marks & Marks
Price, J. W. & Son (Slate)
PORTSMOUTH—Adams, Edgar S.
Jones, W. E.
Oertley, John R.
Taylor, W. F.
Thomas, T. W. & Co. (Metal & Tile)
Whitehurst & Riley
PULASKI—Moore, H. S.
Pulaski Tinning Co.
RADFORD—Kirby, J. M.
RICHMOND—Armitage Mfg. Co. (Gravel, Slag
& Comp.), 3200 Williamsburg av
Berger, B. A., 2209 E Main
Burton, Reuben, 819 E Carey
Chalkley, Wm. T., 505 Louisiana
Deaney, H. M.
Haley, J. H., 112 S Cherry
Haley, Werth W., 116 S Cherry
Holzhaner, Henry, Jr., 510 E Broad
Klein, N. & Son (Gravel), 620 E Broad
Kritzer & Creery, 511 N 23d
Lynn, Henry C., 407 Brook av
Messerschmidt, Henry, 214 W Broad
Pemberton & Benson, 320 E Broad
Rose, J. H. & Co., 1427 E Broad
Rose, John E. & Co., 800 E Broad
ROANOKE—Atkinson, O. E.
Engieby & Bro. Co. (Slate & Metal), 17
Salem av, S W
Possin, Theo. & Co., 110 2d, S W
SALEM—Dane, F. C. & Co.
SHENANDOAH—Campbell, F. G.
SOUTH BOSTON—Nesbit, Chas. A.
STAUNTON—Flavin & Watson
Garber, Augustus M.
Gregory, C. E., Jr.
Grubert, W. A.
Mohler, H. C.
Pemberton & Marston
Roby, I. K.
Tanner, Chas. & Co.
SUFFOLK—Curry, C. D.
Farley, W. J. (Slate)
Folk, E. L. & Co.
Norfleet & Bro.
TAZEWELL—Miller, L. E.
UPPERVILLE—Bradfield, J. E.
VINTON—McLean, Daniel
WARRENTON—Houchens, T. M.
Martyne, B. F.
Wood, D. P. & Co.
WAYNESBORO—Brady, S. L.
Fry, A. G.
O'Connor, D. L.
Parrish, W. A.
WEST POINT—Davis, W. C.
WINCHESTER—Solenberger, J. S. & Co.
WOODSTOCK—Bauserman, H. W.
WYTHIEVILLE—Pattison, B.
Pattison & Umbarger
Peck, Jno. A.

WASHINGTON.

ABERDEEN—Cook, H. L. & Co.
 BALLARD—Curtis, Wm. M.
 BELLINGHAM—Morse Hardware Co.
 Muir & Haskell
 Northwest Hardware Co.
 Stoddard, C. W.
 Whatcom Plumbing Co.
 CENTRALIA—Bower, B. F. & Son
 McNitt, Frank T.
 COLFAX—Barroll & Mohoney
 Kuhn Hardware Co.
 DAVENPORT—Campbell, W. G.
 Thomas, L. H.
 DAYTON—Gilmour, T. B.
 EVERETT—Agnew Hdw. Co.
 Pacific Hardware Co.
 Westover Hdw. Co.
 HOQUIAM—Fesenfeld, W.
 NORTH YAKIMA—Keck, E. O.
 Yakima Hdw. Co.
 OLYMPIA—Jones, M. W.
 Olympia Hdw. Co.
 PORT TOWNSEND—Delgado, Jas., Jr.
 SEATTLE—Alexander, David
 Barger, M. A. & Co., 1017 Post
 Cummings, W. K., 2927 1st av
 Dale Plumbing, Heating & Cornice Co., 112
 Danbersmith, E. C., 305 E 72d Marlow
 Feringer, Henry, 2117 6th av
 Finlay & Robb, 88 Lenora
 Merz Sheet Metal Works, 112 2d av, S
 Noon, T. A., 1807 7th av
 Popple & Knowles, 1023 Post
 Puget Sound Sheet Metal Works, 1318
 Western av
 Rustard Corporation, 215 Yesler way
 Schofield, J. W., 421 Cedar
 Seattle Cornice Works, 1022 1st av, S
 Smith, Chas. B. Co. (Inc.), 1924 Western
 SPOKANE—Abernethy, Robert av
 Altmeyer, Nick
 Brandt Bros.
 Brown Bros. (Slate, Metal & Comp.)
 Brown, Wm.
 Elaterite Roofing Co.
 Henderson, L. A.
 Holley, Mason, Marks & Co.
 Jensen-King-Byrd Co.
 Keeler, W. P.
 Schrimpf, Chas., Y.
 Woodward, J. D.
 Young, E. H.
 TACOMA—Cizek, A. F. (Metal, Asphalt,
 Fuller-Knatvoid Co. Gravel, etc.)
 Geisenheyer, J. F.
 Heald, J. B.
 Hunt, J. & B. Co., 716 Pacific av
 Miller, Edw. Cornice & Roofing Co. (Metal &
 Pabst, O. R. Gravel), 940 Railroad
 VANCOUVER—Sparks, M. R.
 WALLA WALLA—Drumheller Co.
 WATERTOWN—Carpenter & Maltbie
 WHATCOM—Browne, L. O.
 Hinsdale Hardware Co.
 Stoddard, C. W.

WEST VIRGINIA.

BERKLEY SPRINGS—Ambrose, C. P. & Bro.
 BLUEFIELD—Heffner, O. V.
 Whitlow, M. G.
 CHARLESTON—Brawley, D. A. (Slate & Metal)
 Sawyer, W. F. Co. (Slate & Metal)
 Wolf, J. C.
 CHARLESTOWN—Easterday & Co. (Slate &
 CLARKSBURG—Batten, J. A. Co. Metal)
 Sutter, Clair P.
 Trimble, W. E.
 FAIRMONT—Hough, C. D.
 Morgan, Z. W.
 Morris, J. S. & Son
 Staley, Joshua F.
 GRAFTON—Caveney, Jno. F.
 Luethke, J. W. (Slate & Tin)
 Preiss, J. G. & Sons
 Smith, W. C.
 HUNTINGTON—Hagan & Co.
 Johnson, C. A.
 MARTINSBURG—Blondell, J. H.
 Moore & Gardner
 Smith, A. R.
 Westenhaver, S. A.
 MORGANTOWN—Houston, C. R.
 Mallonee, Wm.
 Reed, I. S. & Sons
 NEW CUMBERLAND—Young Hardware Co.
 PARKERSBURG—Bosburg Bros.
 Dickel, Jno. & Sons (Slate & Metal)
 Jones, P. L.
 Martin, A. A. & Son
 Neal, R. L. & Co.
 Sharp & Kerns (Slate & Metal)

PHILLIPPI—Woodford, Geo. L.
 RONCEVERTE—Eagle, J. W. P.
 SALEM—Nutter, H. D.
 SHEPHERDSTOWN—Marten, H. C.
 SISTERSVILLE—Adams, Frederick
 Phillips, G. W.
 WELLSBURG—Charnock, J. M. (Metal & Slate)
 Warden, S. M.
 WESTON—Schmitt, M.
 Simpson & Sons
 WHEELING—Adkins Roofing Co. (Slate, etc.)
 Arkie, Jos. M., 3317 Jacob
 Bayha, D. H., 1917 South
 Caldabaugh, G. W. & Bro.
 Caldwell, B. F. & Co. (Slate & Metal), 1508
 Hall & Burkhardt Market
 Jones, Jno. H., 29 12th
 Nesbitt, Wm., 2232 Market
 Nesbitt & Bro., 1312 Market
 Ohio Valley Roofing Co. (Slate, etc.)
 Price, Charles
 Pingst, Henry
 Schnerlein Roofing & Supply Co. (Slate &
 Metal), 20 Zane
 Vogler, Jos., Jr. (Slate & Metal), 2128
 Wheeling Roofing & Cornice Main
 Wheeling Roofing & Supply Co.

WISCONSIN.

ADDISON—Weiss, S.
 ADELL—Seifert, Anton
 ALGOMA—Meyer Bros.
 APPLETON—Galpin's, Alfred Sons
 Hauert, Jacob J.
 Kloeppel, Wm. E.
 Kourad, Wm.
 Schiedermayer, Geo.
 Schlegel, H. J.
 Schlafer Hdw. Co.
 Tesch, Wm.
 ARGYLE—Hendrickson, H. J.
 ASHLAND—Ashland Hdw. Co.
 French, R. W. & Son
 Garnich, Emil & Sons
 BARABOO—Gaskell, F. N.
 BELOIT—Newkirk, L. G.
 Newton & Zimmerman
 Watson & Andrea
 BERLIN—Peck, C. A. Hdw. Co.
 Wood, Bert T.
 BLACK EARTH—Feseureit & Barber
 BLACK RIVER FALLS—Stegmire, Geo.
 BOSCOBEL—Beimborn & Nauert Hardware Co.
 BOYD—Ludowise, N. & Son
 BURLINGTON—Wagner, C. B.
 CASCADE—Ruppenthal, A.
 CEDARBURG—Groth, Henry G.
 Lehmann, C. W. & Bro.
 CHIPPEWA FALLS—Hoenig Bros.
 Koep, Otto
 CLEVELAND—Belltz Bros.
 COLUMBUS—Baumgarten & Schulze
 CUBA—Kellner, C. & Son
 DALE—Bock, C. A.
 DELAVAN—McCoy, W. L.
 DE PERE—Gowey, A. L. & Co. (Felt & Iron)
 Pratsch, G. G.
 EAU CLAIRE—Crosby, E. A.
 Fraley, George
 Schlegelmilch, H. F. Hardware Co.
 Wood, A. C.
 EDGAR—Punchner, A. W.
 ELLSWORTH—Erickson, E. J.
 EVANSVILLE—Baker, F. A. & Co.
 Evansville Mercantile Ass'n
 FOND DU LAC—Benuett, W. E.
 Brenner, Jacob
 Cheney, S. H.
 Diedricks, F. W.
 Haensgen, J. H.
 Harrop, James
 Mahoney & Kohl
 Murphy, George E.
 GRAFTON—Schmidt, F.
 GREEN BAY—Brown & Tickler
 Cooke, W. D.
 Danz, Hellmer
 Findelsen Bros.
 Follette, George B.
 Fontaine, B. Hardware Co.
 Francols, Jos. P.
 Green Bay Cornice & Corrugating Co.
 Hamblitzer, Joseph
 Harris, Theo. E. (Slate & Metal)
 Kimball, Alonzo
 Lamerond, J. L.
 Van Veghel Bros.
 HALES CORNERS—Mead, Jno.
 HARTFORD—Esser & Schmidt
 Kissel, L. & Sons
 HAZEL GREEN—Edwards, James & Sons
 Grieves, Robert D.

HURLEY—McConnell Hardware Co.
 Volght & Christensen
 JANESVILLE—Lowell Hdw. Co.
 McNamara, H. L.
 Roesling, J. C.
 Truesdill, E. A.
 Wetzler, C. A.
 KAUKAUNA—Butler Bros. (Tin & Metal)
 Feller, Peter (Tin & Metal)
 Hass & Hohmann (Tin & Metal)
 KENOSHA—Dewey, C. A.
 Fay, Geo. W.
 Jansen, T. E.
 Skidd, Chas.
 KIEL—Simon Hardware & Mfg. Co.
 LA CROSSE—Gass, Anthony, 316 S 3d
 Gateway City Steel Tank & Roofing Co.
 Lange, D., 624 S 3d
 Manke & Rice
 Smlth, J. W.
 LAKE GENEVA—Cobb Hardware Co.
 Moore, F. S.
 LANCASTER—Ziegler Bros.
 LA VALLE—Eder Bros.
 LENA—Libal Bros.
 MADISON—Blid, J. H.
 Blid & Schneider
 Burger, Peter
 Drews, William
 Gill, Alex. & Co. (Comp.)
 Krehl & Son
 Krovcke Bros.
 Miller, Waldron & Studemann (Slate &
 Metal)
 Morhoff, E. W.
 Smith, William
 Sumner & Morris
 Trachte Bros.
 Wolf & Kuhly (Slate & Metal)
 MANAWA—Davids & Kinsman
 Shipman, H. E.
 MANITOWOC—Kerscher Bros.
 Kerscher, Frank J.
 Rathack, Wm. & Sons
 Wallschlaeger's, Jno. Sons
 Wernecke & Schmitz
 Worel & Zeman
 MARINETTE—Muth & Wall
 Simcox, H. B. & Co.
 Watson Bros. (Asbestos & Metal)
 Westlund, August
 MENOMONEE FALLS—Thomas, Fred.
 MENOMONIE—Brennan, D. C.
 Lucas, Carroll
 Young, Jno. A.
 MERRILL—Fehland, H. R. & Co.
 Mittelstedt, Wm.
 Montgomery, F. M.
 Wenzel, Gustave
 MIDDLETON—Manning, W. J. O.
 MILWAUKEE—Badger Roofing Co. (Gravel,
 etc.), 318 Poplar
 Bauschek, Dominick, 503 12th
 Biernink, S., 343 33d av
 Biersach & Niedermeyer (Slate, Tile &
 Metal), 216 5th
 Boehm, J. Stove Repair Co., 290 W Water
 Bretzel, Herman J., 1904 Fond du Lac av
 Bruss Bros., 648 12th
 Buttles, Fred. S., 7 Clybourn
 Caspari, Chas., 364 E North av
 Consolidated Sheet Metal Works (Slate &
 Metal), 661 Hubbard
 Coorsen, Louis, Jr. (Comp.), 316 16th
 Cordts & Ehmke (Slate, Metal & Tile), 771
 Teutonia av
 Cox, Jos. L. (Slate, Tile & Metal), 138 6th
 Cream City Roofing & Paint Mfg. Co., 219
 Dobl & Busse, 405 Grove 6th
 Draegkamp, J. & Co., 1515 Fond du Lac av
 Felix & Goethel, 818 Winnebago
 Geuder & Pasechke Mfg. Co., St. Paul av
 & 15th

GILMAN SNOW GUARD

103 Merrimac, Boston, Mass. (See adv.
 Index, end of book)

Gottschalk Bros. (Comp. & Metal), 961 4th
 Graunke, August, 427 28th
 Green, David D., 215 6th
 Hammann, Wm., 752 4th
 Harwood, F. M., 90 Russell av
 Helmlg, F. W., 607 6th av
 Held & Dern, 1524 Fond du Lac av
 Henrich, Theo. A., 584 Walker
 Hesse, E. & Co., 456 B'way
 Hoffmann & Baur, 279 Lake
 Hoffmann, C. & Co., 861 Cambridge av
 Hollitz, Frank J., 1338 Green Bay av
 Hollitz & Bogenberger, 445 Jefferson
 Jeske, Reinhard & Co., 718 Walnut
 Kauper, John W., 488 12th
 Kilberth, Jos. A., 1522 Walnut

Klubertanz & Strohmeyer, 2325 Fond du Lac av
 Krsek, Anton, 1209 Chestnut
 Krsek, Joseph, 1522 Vliet
 Lauterbach, Geo., 324 Ogden av
 Lorch, Wm. P., 1109 Cherry
 Marth, Gottlieb F., 692 W 24th
 Mertens, L., 1183 6th
 Merz & Co., 828 Winnebago
 Milwaukee Corrugating Co., S Bay, nr Aldrich
 Monsted, A. & Co. (Comp.), Pabst bldg
 Patterson, Wm. E., 660 3d
 Pletsch, Ferd., 619 Cedar
 Roeder, Chas., 1520 7th
 Roumberger, Jos., 2115 Cherry
 Schatzke, Herman, 785 7th
 Schmidt, Jno. P., 2443 Center
 Schmitt, F. & Sons Co. (Slate, Tile & Met-
 Schupinsky, Aug., 497 B'way al), 301 4th
 South Side Cement Co., 257 Reed
 South Side Roofing Co. (Comp. & Gravel), 235 Reed
 Stein, David & Co., 702 Market
 Strassburger, Ernest, 588 Mitchell
 Tonnson, E. B., 51 3d
 Toombs, Jas., 3613 Wells
 Van Brunt & Skeoch, 147 6th
 Wallman Mfg. Co., 285 5th av
 Wiesend, J. M., 607 Grand av
 Winding & Gezelschap (Gravel, Asphalt, etc.), Pabst bldg
 Witte, John E., 735 9th
MONROE—Kundert Hardware Co.
 Lanze, Fred
MONTICELLO—Breylinger, F. J.
NASHOTAH—Wagner, Chas. M.
NEW GLARUS—Hoesley Bros.
NORTH PRAIRIE—Hess, Frank E.
OCONOMOWOC—Lorleberg, H. Co. (Inc.)
 Smith & Meadows
OCONTO—Barlament, H. M.
 Delaporte, C. J. L.
 LeMieux, E. A.
OREGON—Marvin Hardware Co.
OSHKOSH—Cornellus, Frank
 Dimsey, L. & Co., 277 Main
 Hasbrouck, F. M., 269 Main
 Heine, Frank
 Krippene Hdw. Co., 106 Main
 Leach, Frank Hdw. Co., 30 S Main
 Marden, P. L. & Bro. (Comp. & Gravel), 85 Bond
 Tank & Tieman
 Wille, F. Co., 29 Main
PESHTIGO—McGraw, F. E.
PORTAGE—Dimsey, Nelson
PRAIRIE DU CHIEN—Beach Bros.
RACINE—Anderson & Fritz
 Bean & Hansen
 Gerbig, W. E.
 Jones, Jno. O.
 Mohr-Jones Hdw. Co.
 Murphy, James, 614 State
 Prostrenk & Kroupa
 Sprado, W. A.
REEDSBURG—Ellenberg & Ost
 Siefert, Aug. Hardware Co.
 Webb & Schweke
RHINELANDER—Dunn & Wood Hdw. Co.
 Lewis Hdw. Co.
RIPON—Barlow & Seellg
RIVER FALLS—Dodge, Geo. J.
ROCKDALE—Norgord, J. E.
ST. CLOUD—Dreifuerst Bros.
SCHLEISINGFRVILLE—Keidel, J. G.
SCOTT—Lelfer, G. A.
SEYMOUR—Droeger Hardware Co.
SHEBOYGAN—Bethke, W. F.
 Geele, F. Hardware Co.
 Koepsell, J. J. Hardware Co.
 Ramaker, J. J. & H. G.
SOUTH MILWAUKEE—Fowle, H. H.
 Kuhn, A. W.
SPARTA—Baldwin Mercantile Co.
 Reisinger, M. (Metal)
STEVENS POINT—Gross & Jacobs
 Krembs, C. & Bro.
STOUGHTON—Anderson & Liebe
 Haver, W. O.
 Wiegel & Phillips
STURGEON BAY—Hay, J. S. Hardware Co.
 Schofield Co.
SUPERIOR—Arnold & Schimmel (Metal), Iron & Gravel, 414 Banks av
 Bingham Hdw. Co. (Slate, Metal & Comp.), 522 Ogden
 Carlson Bros. (Slate, Metal & Comp.), 1215 Tower av
 Fogelquist, Frank
 Holmes, A. E. & Bro. Co. (Slate, Metal, etc.), 1902 Winter
 Olscamps & Kunert
 Roberts, G. W. (Slate, Metal & Comp.), 514 Ogden av
TISCH MILLS—Harkey, Joseph
WALDO—Timmer, H. W.

WASHBURN—Bergman, E.
 Ungrodt, B. (Asbestos, Metal & Gravel)
WATERTOWN—Geschke, Richard
 Kusel, D. & F. Co.
 Pritzlaff, W. G. & Co.
 Winkenwerder, Henry
 Wittchow, Charles
WAUKESHA—Tolg, C. F.
WAUNAKEE—Fieiner, Gustave
WAUPUN—Buelow, Geo. W.
 Howard, Wilfred C.
WAUSAU—Adams & Lubeck
 Bauman, Richard H.
 Brandt, Emil
 Collins, W. F.
 Fehl, Jno.
 Kuckuck, Wm.
 Montgomery Hdw. Co. (Metal & Gravel)
WEST BEND—Herman, Jos.
 Ott & Boden
 Warnkey & Schnellss
WESTFIELD—Kendall, Geo. (Slate, Comp., etc.)
WEST SUPERIOR—(See Superior)
WHITEWATER—Cutter, E. A.
WRIGHTSTOWN—Rather & Schaeuble

WYOMING.

BUFFALO—Astell, Geo. T.
HEYENNE—Hopper & Bartley
EVANSTON—Fife Bros.

Roofing (Actinolite)

Machwirth Bros. Co., 201 Oak, Buffalo, N. Y.

Roofing (Anchor Brand)

Warren Chemical & Mfg. Co., 19 State, New York

Roofing (Asbestos)

Bartholomew Roofing Co., Memphis, Tenn.
 Carey, Phillip Mfg. Co., Lockland, O.
 Chicago Asbestos Mfg. Co., 78 W. 22d pl
 Chicago, Ill.
 Chicago Fireproof Covering Co., 18 N Canal
 Chicago, Ill.
CHICAGO MILL WORK SUPPLY CO.,
 22d & Sangamon, Chicago, Ill. (See adv. index, end of book)
 Consolidated Roofing Works, Columbus, O.
EHRET MAGNESIA MFG. CO., Land
 Title bldg, Phila., Pa. (See adv. index & branch offices, end of book)
 Gilmour, R. M. Mfg. Co., 105 John, New York
 Johns, H. W.-Manville Co., 100 William, New York
 Keasbey & Mattison Co., Main Office & Works, Ambler, Pa.
KEYSTONE ASBESTOS-MAGNESIA
 Co., Fulton bldg, Pittsburg, Pa. (See adv. index, end of book)
 McConnell & Co. (Dealers), Columbia Bank bldg, Pittsburg, Pa.
MILWAUKEE CORRUGATING CO.
 (Jobbers), Milwaukee, Wis. (See adv. index, end of book)
 Mothner Asbestos Co., 815 Washn. av, Phila., Pa.
 New Jersey Asbestos Co., 117 N Front, Camden, N. J., & 52 Dey, N. Y.
 Stowell Mfg. Co., 454 West Side av, Jersey City, N. Y.
 Trinidad Asphalt Mfg. Co., 320 S 20th, St. Louis, Mo.
WATSON, H. F. CO., Erie, Pa. (See adv. index & branch offices, end of book)

Roofing (Asbestos-Metallic)

Keasbey & Mattison Co., Main Office & Works, Ambler, Pa., & 100 John, New York

Roofing (Asbestos Protected Metal)

Asbestos Protected Metal Co., Canton, Mass.

Roofing (Asphalt Gravel)

ACME ASPHALT ROOFING MFG. CO.
 ("Eagle" Brand Ready), 65 Mallory av, Jersey City, N. J. (See adv. index, end of book)
 Stowell Mfg. Co., 454 West Side av, Jersey City, N. J.

Roofing (Asphalt, Ready)

(See also Roofers; also Asphalt Dealers & Importers.)

ACME ASPHALT ROOFING MFG. CO.
 ("Eagle" Brand), 65 Mallory av, Jersey City, N. J. (See adv. on following page)
 American Insulating Material Mfg. Co. (Ivory-old indestructible Fireproof), Alexander, Armitage Mfg. Co., Richmond, Va. Ind.
 Asphalt Ready Roofing Co., 136 Water, N. Y.
 Asphalt Roofing Co. ("Wanlgas"), Saginaw, Mich.
 Buchanan-Foster Co. (White Rock), Drexel bldg, Phila., Pa.
BURTON, W. J., 164 W Larned, Detroit, Mich. (See adv. index, end of book)
CHICAGO MILL WORK SUPPLY CO.,
 22d & Sangamon, Chicago, Ill. (See adv. index, end of book)
 Consolidated Roofing Works (Seamless), Columbus, O.
 Densmore-Stabler Refining Co., Los Angeles, Cal.
 Eastern Granite Roofing Co., Irving bldg, New York
 Indian Refining Co., Georgetown, Ky.
 Minneapolis Paper Co. ("Monarch" Brand), Minneapolis, Minn.
MUNN-PRICE CO., 413 W B'way, New York. (See adv. index, end of book)
 National Roofing Co., Tonawanda, N. Y.
 Patent Vulcanite Roofing Co. ("Vulcaulte"), 625 S Campbell av, Chicago, Ill.
 Pioneer Roll Paper Co. (Ready Rock), Los Angeles, Cal.
 Scott Roofing & Mfg. Co. ("Asteroid"), 234 E Front, Cincinnati, O.
 Stowell Mfg. Co., 454 West Side av, Jersey City, N. J.
 Trainer, C. W. Mfg. Co., 89 Pearl, Boston, Mass.
 Trinidad Asphalt Mfg. Co., 320 S 21st, St. Louis, Mo.
 Warren Chemical & Mfg. Co. ("Anchor" Brand), 19 Battery pl, New York
 Western Rock Asphalt Paving & Roofing Co. ("Eagle" Brand), Detroit, Mich.

Roofing (Asphalt Slag)

ACME ASPHALT ROOFING MFG. CO.
 ("Diamond" & Gray Slag), 65 Mallory av, Jersey City, N. J. (See adv. on following page)
 Hetzel, J. G. (Est. of), 67 Maine, Newark, N. J.
 Stowell Mfg. Co., 454 West Side av, Jersey City, N. J.

Roofing Caps (Tin)

Ammlon & Co., Baltimore, Md.
 Barrett Mfg. Co., Land Title bldg, Phila., Pa.
 Consolidated Fruit Jar Co., New Brunswick, N. J.
 Evans, C. W. Steel & Iron Co. (Half Moon), Cincinnati, O.
 Graham Paper Co. (Jobbers), St. Louis, Mo.
 Horan Stay Hanger Co., Louisville, Ky.
 Humphrey, H. W., Unionville, Conn.
 Merwin Mfg. Co., Newton Falls, O.
 Robertson, W. F. Iron & Steel Co. (Half Moon), cor Front & Elm, Cincinnati, O.

Roofing (Car)

Armitage Mfg. Co., Richmond, Va.
 Bird, F. W. & Son ("Paroid"), East Walpole, Mass.
 Chicago-Cleveland Car Roofing Co. (Freight Car), Old Colony bldg, Chicago, & Cleveland, O.
 Drake & Wiers Co. (Asphalt), Cleveland, O.
 Excelsior Car Roof Co., Chemical bldg, St. Louis, Mo.
 Fay Manila Roofing Co., 516 Point, Camden, N. J.
 Graham Paper Co. (Jobbers), St. Louis, Mo.
 Hutchings Car Roofing Co. (Iron & Plastic), Penobscot bldg, Detroit, Mich.
 Patent Vulcanite Roofing Co. ("Vulcanite" Rubber), 625 S Campbell av, Chicago, Ill.
 Standard Paint Co. (Ruberoid), 100 William, New York
 Standard Railway Equipment Co. (Murphy Galvanized Iron), National Bank of Commerce bldg, St. Louis, Mo.
WATSON, H. F. CO. (Asbestos, etc.),
 Erie, Pa. (See adv. index & branch offices, end of book)
 Western Elaterite Roofing Co. ("Elaterite"), Denver, Colo.
 Yale, Julian L. & Co. (Tolson-Proof), Railway Exchange bldg, Chicago, Ill.

WEARS LONGER
ROOFRITE
COSTS LESS

"The Right Roof" WILL SAVE YOU MONEY
on Any Kind of a Building

There's a Why. You'll see it if you get our samples for comparison. *It's Worth While.* Send for samples now.

THE LEHON COMPANY

Manufacturers of Roofing, Waterproofing and Insulating
 Papers and Paints, Electrical Varnish and Tape.

CHICAGO

West 43rd and Robey Streets,

Phone Yards 55

N. B.—We make DAMPTITE for Waterproofing Concrete and Submerged Woodwork. Write us about it.

Roofing (Cork)

Stowell Mfg. Co., 454 West Side av, Jersey City, N. J.

Roofing (Corrugated Iron, Asbestos Coated)

Hyndman Steel Roofing Co., 318 E. 2d, Cincinnati, O.

Roofing (Duck)

(See Cotton Duck Mfrs.)

Roofing (Elaterite)

Western Elaterite Roofing Co., Denver, Colo.

Roofing ("Elateroid" Coatings)

Hydo-Carbon Mfg. Co., Denver, Colo.

Roofing (Feldspar)

Stowell Mfg. Co., 454 West Side av, Jersey City, N. J.

Roofing Felts

(See Felts, Roofing.)

*Roofing (Ferroinclave)

BROWN HOISTING MACHINERY
 Co. (Fire Proof), Cleveland, O., & 26 Cortlandt, New York. (See adv. index, end of book)

Roofing (Flintkote)

Bird, J. A. & W. & Co., 34 India, Boston

Roofing (Granite)

Eastern Granite Roofing Co., Irving bldg, New York, & Frisco bldg, St. Louis, Mo.

Roofing (Gravel)

(See Sand & Gravel.)

*Roofing ("Imperial")

WATSON, H. F. CO., Erie, Pa. (See adv. index & branch offices, end of book)

Roofing (Mastic)

National Mastic Roofing Co., Edwardsville, Ill.

Roofing Material (Jobbers)

(See also Roofers; also Tin Plate, Metals, etc.; also Roofing & Siding, Iron & Steel; also Roofing Slate; also Roofing Tile; also Building & Sheathing Papers; also Felts, Roofing; also the specific article required.)

ALABAMA.

BIRMINGHAM—Birmingham Paint & Roofing Wheelock, Geo. F. Co.
MONTGOMERY—Alabama Machinery & Supply Kennedy Co. Co. ("Rex," "Flintkote")
 Vesuvius Lumber Co.

ARKANSAS.

LITTLE ROCK—Abeles, Charles T. & Co.
 Jones, Dudley E. Co., 415 Markham

CALIFORNIA.

LOS ANGELES—Harper & Reynolds Co., 152 N Main
 Johns, H. W.-Manville Co., 203 E 5th
 Montague, W. W. & Co., 122 N Los Angeles
 Pioneer Roll Paper Co. (Ready Rock Roofing)
 Scheerer, C. & Co. (Asphalt; also Patent Vulcanite)
SAN FRANCISCO—Arnold Hardware Co., 1442 O'Farrell

Johns, H. W.-Manville Co., 180 2d
 Liggett & McCroskey, 284 Natoma
 Montague, W. W. & Co., Polk & Turk
 Standard Roofing Co., 355 McAllister
SAN JOSE—Stock's, John, Sons

COLORADO.

DENVER—Bartels, F., 1626 Champa
 Colorado Brick Supply Co., 1610 B'way
 Colorado Roofing & Paving Co., 220 15th
 Miller, Henry & Co., 1837 Stout
 Watkins, L. A. Merchandise Co., 1525 Wazee

CONNECTICUT.

BRANFORD—Jourdan, F. & Son
MERIDEN—Lines, H. Wales Co.
NEW HAVEN—Clark, C. W. & Son, 109 Commerce
 Connecticut Hardware & Paint Co., 97 Crown
 Kelley, James E. & Co., 66 Commerce
 Lightbourn & Pond Co., 33 B'way

DISTRICT OF COLUMBIA.

WASHINGTON—(See Roofers)

FLORIDA.

JACKSONVILLE—Richardson, H. H. & Co.
 (Slate, Tile, etc.)

GEORGIA.

ATLANTA—Conklin Tin Plate & Metal Co., Empire bldg
 Kriegshaber, V. H., 6 N Forsyth
 Murphy, C. P. & Son, 6 N Forsyth
 Smith, O. A. Roofing & Contracting Co., 27
MACON—Mallory Mill Supply Co. Walton
SAVANNAH—Conklin Tin Plate & Metal Co.
 Hanley, Andrew Co.

ILLINOIS.

CHICAGO—Cortright Metal Roofing Co. (Tile), 134 Van Buren
 Dee, Wm. E. Co. (Tile), 114 Quincy
 Hopkins, H. H. Co., 50 Dearborn
 Illinois Roofing & Supply Co., 40 Dearborn
 Johns, H. W.-Manville Co., 171 Randolph
 Knisely, H. C. Co., 273 S Canal
LEHON CO. ("Roofite," Rubber Surface), W 43d & Lincoln. (See adv. at top of page)



SEND FOR SAMPLES AND PRICES

Shipping Facilities
 Unsurpassed

GENUINE ASPHALT READY ROOFINGS

When Quality Counts, We Have It

Eagle Brand Ready Asphalt Gravel Roofing No. 1
 " " " " " " " 2

Diamond Slag " " Roofing No. 1
 " " " " " " " 2

No Leak " " " " " " " 1
 " " " " " " " 2

Emerald Brand, Acme Brand, 1 and 2 Ply

Asphalt Saturated Felt

Asphalt Paving Cement

Refined Trinidad Asphalt

Asphalt Roofing Cement, Etc.

MacLellan, H. G. & Co. (Slate), 95 Wash-
Murdoch, Wm. Co., 145 Lasalle ington
North Chicago Roofing Co., 128 North av
Perkins Roofing & Supply Co., 239 Lake
Powell, M. W. Co., 204 Dearborn
Randolph, C. W., 825 Clifton av
WATSON, H. F. CO. ("Induroid,"
Asbestos, etc.), 12 S Clinton. (See adv.
index, end of book)
Western Roofing & Supply Co., 177 Ran-
dolph
Wheeler & Thomas Roofing Co., 171 N Wells
Woodley, Jas. C. & Co. ("Compo Rubber"),
JERSEYVILLE—Cockrell, E. 454 S Clark
NORMAL—Stillhamer, H. W. & Co. (Asbestos
Felt)
PARIS—McCord & Risser
PEORIA—Clark, Quilen & Morse, 308 Commer-
cial
Johnson, Chas. Hardware Co., 2023 S Adams
Meyer, F. & Bro. Co., 1313 S Adams
Streibich, John C., 301 S Washington
ROCKFORD—Parsons Lumber Co.
SPRINGFIELD—Schuck, J. H. & Son

INDIANA.

ANDERSON—May Supply Co.
EVANSVILLE—Anchor Roofing & Paving Co.
Bush, E. M. Hardware Co., 503 Main
INDIANAPOLIS—Smither, Henry C. Roofing
Co., 330 S Penn
Zimmerman, C. & Sons, 19 S East
TERRE HAUTE—Reiman & Steeg
Townley Stove Co.

IOWA.

DES MOINES—Barrick & Son, 911 Walnut
Drake Roofing Co.
Ewing & Jewett, 9th & Locust
Fischer Bros., 714 Locust
Nichols Roofing Co., 200 4th
DUBUQUE—Tredway, A. & Sons' Hardware
Co.
KEOKUK—Keokuk Lumber Co.
SIOUX CITY—Spaulding, J. D.

KANSAS.

ATCHISON—Allen, Jno. W. & Co.
FORT SCOTT—Penniman, A. C. & Son, 109
JUNCTION CITY—Moses, Geo. C. Market

KENTUCKY.

LOUISVILLE—Hughes, W. J. & Sons Co., 14th
& Maple
Imperial Wire, Iron & Roofing Co., 221 W
Kleier, H. J., Jr., 915 Shelby Market
Louisville Paper Co. (Red Rope), 251 E
Main
National Roofing & Supply Co., 140 W Main
Parker, J. C. Paper Co., 307 W Main
Southern Roofing & Paving Co., 1006 W
Troxell, Samuel F. Co., 108 3d Main

LOUISIANA.

NEW ORLEANS—Demorelle, Jas. & Sons, 1035
Dow, Lewis F., 419 Carondelet Toulouse
Kracke & Flanders, 630 Gravier
Louisiana Roofing Co. (Ltd.), 407 Tchoupi-
toulas
Menge, J. H. & Sons (Ltd.), Common &
Tchoupitoulas
Thompson, Edw. Co. (Ltd.), 530 Natchez
Tupper, Allen, 713 Union
Woodward, Wight & Co. (Ltd.), 420 Canal

MARYLAND.

BALTIMORE—Clarke, Wm. Wirt & Son (Paper
Sheathing, Paints, etc.), Monument &
Dawes, J. S. & Co., 782 W Pratt Forrest
Foy, Edw. L. & Co., 16 W Camden
Lyon, Conklin & Co., 13 Balderston
Maryland Lime & Cement Co., Carroll bldg
National Building Supply Co. (Asbestos, As-
phalt, Felt, etc.), 418 E Pratt
Nimmo, W. C. & Co., 103 Cheapside
Noble, H. & Co., 623 S Caroline

MASSACHUSETTS.

BOSTON—Asphalt Roof Coating Co., 127 Fed-
eral
**EHRET MAGNESIA MFG. CO. (As-
bestos, Felts, Cements, Paints, etc.)** (See
adv. index, end of book)

GILMAN SNOW GUARD

103 Merrimac. (See adv. index, end of
book)

Hind, Thos. J. (Asphalt), 19 Milk
Johns, H. W.-Manville Co., 55 High
Madden, John J., 36 Linden park
Murfeldt, W. A. Co. (Gravel, Slate &
Metal), 161 Devonshire

Smith, Jas. C., 312 Dover
South Boston Roofing Co., 490 B'way
STEARNS, A. T. LUMBER CO.,
Neponset. (See adv. index, end of book)

WARREN CHEMICAL & MFG. CO.,
12 Pearl. (See adv. index, end of book)

WATSON, H. F. CO., 79 Milk. (See
adv. index, end of book)

CAMBRIDGE—Purcell, Hycent (Roofing Ce-
ment, etc.), 441 Main

FALL RIVER—Archard, Richard J.

Williston, Chas. H.

Williston, Fred. D.

LAWRENCE—Smith & Bingham

LOWELL—Douglas, J. L. & Co.

LYNN—Bee, Jno. D. & Sons, 45 Shea

Collins Hardware Co., 61 Munroe

Pool, H. F., 5 Market

Quinn, Martin L. & Co., 21 State

SALEM—Langmaid, J. P. & Sons (Asphalt)

SOUTH FRAMINGHAM—Fales, A. & Sons Co.

SPRINGFIELD—Graves, Geo. A. & Sons, 324
Main

WORCESTER—Barnard, George A., 74 Prescott

Blake, Geo. F., Jr., & Co.

Smith-Green Co.

MICHIGAN.

DETROIT—Armstrong, B. Co., 126 Champlain

Brady & Co., ft of Woodward av

BURTON, W. J., 164 W Larned.

(See adv. index, end of book)

Conklin, S. P. (Asbestos), 20 Atwater, E

Ebets Bros., 352 5th

Fuel Economy & Mfg. Co., 42 Jeff'n av

Gilbert, G. W., 20 Gilman

Pudrith & Chandler, 74 Brush

Thomas Bros. & Co., Hammond bldg

GRAND RAPIDS—Hopson, W. C. & Co.

SAGINAW—Asphalt Roofing Co. (2 & 3 Ply
Roofing, Roof Paints, Tarred Felts, etc.)



Ready Roofing Coal Tar Products Wool Deadening Felts Building and Sheathing Papers Rope Insulating Waterproof Papers

Our "Diamond P" Brands of Papers are Unequalled

WRITE FOR SAMPLES AND PRICES.

THE MUNN-PRICE CO. 413 W. BROADWAY
NEW YORK

MINNESOTA.

DULUTH—Cutler, D. G. Co.
 MINNEAPOLIS—Crittenden Roofing & Mfg. Co., 706 S 5th Co., 20 S 2d
 Janney, Semple, Hill & Co., 20 S 2d
 Nott, W. S. Co. (Prepared, etc.), 200 1st av, S
 Stremel Bros. Roofing & Cornice Co., 1215 Washington av, N
 ST. PAUL—Griffin & Boehme, 121 W University av
 Northwestern Lime Co., 6S Lower Levee
 WINONA—Cone, R. D. Co.

MISSOURI.

KANSAS CITY—Conkey, Theo. F., 1314 E 18th
 Johns, H. W.-Manville Co., 1416 Main
 Lewis Supply Co., 1300 W 11th
 ST. LOUIS—Carondelet Roofing Co., 5832 S Compton av
 Daniel Roofing & Supply Co., 206 Walnut
 Excelsior Roofing Co., 1309 N Grand av
 Finger & Co., 2008 Russell av
 Johns, H. W.-Manville Co., 914 N B'way
 Latal, John J., 4422 Easton av
 St. Clair Roofing Co., 921 Chestnut
 Standard Roofing Co., 1109 Chestnut
 Stockhoff Supply Co., 107 N Main
 Trinidad Asphalt Mfg. Co. (Asphalt Roofing Cements, Paints, etc.), 320 S 21st
 Zeinicker, Walter A. Supply Co. (Prepared Roofing), 404 N 4th

NEBRASKA.

LINCOLN—Nichols Roofing Co.
 Whitebreast Coal & Lime Co.
 Young, R. S. Building Supply Co.
 OMAHA—Barrick, Edw. Roofing Co.
 Cady, H. F. Lumber Co.
 Jones, J. H. Roofing Co.
 Mica Roofing Co.
 Rogers G. W.
 Sunderland Roofing & Supply Co.

NEW JERSEY.

CAMDEN—Rudderow, S. F. & Son
 Whitehead, Caleb C.
 JERSEY CITY—ACME ASPHALT ROOFING Mfg. Co. (Asphalt, Slag, etc.), 65 Mallory av. (See adv. index, end of book)
 Holbrook & Thompson Roofing Co., 1 Montg.
 NEW BRUNSWICK—Weigel, Philip, Jr., 2 Peace

NEW YORK.

ALBANY—Ackroyd, Jas. & Sons, 12 James
 Macnee & Rabe, 659 B'way
 AUBURN—Smith & Pearson
 BINGHAMTON—McIntyre & Hull
 BROOKLYN—(See New York City, Borough of Brooklyn)
 BUFFALO—Baker, Howard H. & Co., 20 Ter-Black, John H., Builders' Exchange race
 Buffalo Wholesale Hardware Co., 317 Oliver
 Christmann, Phillip & Sons, Virginia & Orange
 Fisher, Martin & Sons, 75 W Chippewa
 Grove Roofing Co., 121 W Eagle
 Hall, Leander W. & Son, 216 Pearl
 Machwith Bros. Co., 201 Oak
 Smith, D. L., 31 Church

NEW YORK CITY.**Borough of Brooklyn.**

BROOKLYN—Coal Tar Product Co., Smith & Creamer
Boroughs of Manhattan & Bronx
 NEW YORK—Blue & Queripel Co., 119 E 24th
 BROWN HOISTING MACHINERY Co. ("Ferrocincave"), 26 Cortlandt, New York. (See adv. index, end of book)
 Doggett, Stanley, 101 Beekman
 EHRET MAGNESIA MFG. CO. (Asbestos, Felts, Cements, Paints, etc.), 73 Maiden la. (See adv. index, end of book)
 Hewlitt, C. B. & Bro. (Roofing, Papers, Felt, etc.), 48 Beekman
 Hoopes & Shipman, 345 W 26th
 Johns, H. W.-Manville Co., 100 William
 MUNN-PRICE CO., 413 W B'way. (See adv. on preceding page)
 Swan, Alfred F. Co. (Felt, etc.), 17 Battery pl
 (END OF NEW YORK CITY)

OSWEGO—Rathburn, E. W. & Co.
 ROCHESTER—Rochester Roofing & Heating Co., 35 Ambrose Co., 49 West av
 Warren Chemical & Mfg. Co., 49 West av
 SYRACUSE—Burhans & Black Co.
 Central City Roofing Co.
 TROY—Pomeroy & Catlin, 84 Congress
 Warren, J. M. & Co., 245 River

OHIO.

CADIZ—Long, E. M. & Sons (Wholesale Slate, Asphalt, Felt, etc.)
 CINCINNATI—Breese, J. E. & Bro., 210 W 2d
 Cincinnati Roofing Co., 1518 Gest
 Contractors' & Builders' Supply Co., 2849 Stanton av
 Globe Paint & Roofing Co., 232 W 8th
 Kramig, R. E. & Co. (Asbestos, etc.), 234 E 6th
 Singleton, Ruffner & Co., n e c 8th & Pium
 CLEVELAND—BROWN HOISTING MACHINERY Co. ("Ferrocincave"), St. Clair, N. E. (See adv. index, end of book)
 Forest City Roofing Co., American Trust bldg
 Hogen, F. G. Co. (Slate), 2345 E 69th
 Johns, H. W.-Manville Co., 1525 Columbus rd, N. W.
 Osborn, J. M. & L. A. Co., 36 Viaduct
 COLUMBUS—Columbus Roofing & Supply Co.
 Ferris, W. B., Columbus Savings & Trust
 South Side Lumber Co., 1927 S High bldg
 DAYTON—Ach, A. & Son
 Laughlin, Cyrus W.
 Wuichet, Charles & Co.
 MANSFIELD—Bodine Roofing Co. (Wood Pulp)
 TOLEDO—SCHILLINGER BROS. CO. ("Eagle Brand" Asphalt Gravel Roofs), 215 City Park av. (See adv. index, end of book)
 Star Hardware Co., 710 Monroe
 Stolberg Hardware Co., 605 Cherry

OREGON.

PORTLAND—Bayer, J. C., 265 2d
 Hirschberger & Sweeney, 292 Burnside
 Tilton Bros., 105 N 5th

PENNSYLVANIA.

ALLEGHENY—McGraw, J. A. Bros., 220 Sandusky
 ERIE—WATSON, H. F. CO. ("Indurroid," Asbestos, etc.) (See adv. index, end of book)
 PHILADELPHIA—Berger, L. D., 59 N 2d
 Berger Bros. Co., 3114 N 17th
 Bortel, E. S. Co., 1801 Market
 Cornell, H. T., 1845 N 6th
 EHRET MAGNESIA MFG. CO. (Asbestos, Felts, Cements, Paints, etc.), Land Title bldg. (See adv. index, end of book)
 France, David Co., Tasker st. wharf
 Johns, H. W.-Manville Co., 21 N 2d
 Kimes, J. B. & Co., 1822 Filbert
 PITTSBURG—Johns, H. W.-Manville Co., 218 1st av
 Le Gouillon, P., Bessemer bldg
 McCombs, Wm. M., 2101 Carson
 McDonough, S. E. & Co. ("Our Own" Brand Lap Seal" Fireproof Ready Roofing, etc.), Hazelwood
 SCAIFE, WM. B. & SONS CO., 221 1st av. (See adv. index, end of book)
 Young, J. F., 34th & A. V. Ry.
 SLATKINGTON—McKenna, David
 WILKES-BARRE—Penna. Supply Co.
 Phelps, Lewis & Bennett Co.

RHODE ISLAND.

PROVIDENCE—Cartier, M. N. & Sons Co., 293 Canal
 Greene, Robert L. Paper Co., 69 Washington
 Maguire, J. T. Co., 75 Westminster
 Moore, J. W. Co., 143 Allens av

SOUTH CAROLINA.

CHARLESTON—Bailey-Lebby Co. (Prepared Roofing)
 Shepherd Supply Co., 232 Meeting
 GREENVILLE—Gower Supply Co.
 Morgan & Austin
 Wilkins, Poe & Co.

TENNESSEE.

CHATTANOOGA—Chattanooga Roofing & Foundry Co. (Felts, Paints, Pitch, Steel, Corrugated, etc.)
 Eureka Supply Co.
 James & Co.

KNOXVILLE—McClung, Buffat & Buckwell
 McClung, C. M. & Co.
 MEMPHIS—Bartholomew Roofing Co., 164 S 2d
 Lee Bros. (Comp. & Ready Roofing), 6 S Front
 NASHVILLE—Nashville Roofing & Paving Co., 811 N Cherry

TEXAS.

DALLAS—Buckelew, O. O., 289 Main
 King, T. F., S Houston
 DENISON—Lingo-Leeper Lumber Co.
 EL PASO—Santa, Fe Fuel Co.
 FORT WORTH—Burton-Lingo Co.
 Wills & Tyson
 HOUSTON—Bering-Cortes Hardware Co.
 Heltman, F. W. Co. (Iron & Felt)
 Peden Iron & Steel Co. (Ruberoid, etc.)
 SAN ANTONIO—Diekmann, Jno. C.
 Jewett Cornice & Roofing Co.
 SCHULENBERG—Schaefer, H. P.

UTAH.

SALT LAKE CITY—Morrison, Merrill & Co.

VIRGINIA.

LYNCHBURG—Adams Bros. Paynes Co.
 NORFOLK—Stansbury, A. R.
 Thomas, T. W. & Co.

WASHINGTON.

SEATTLE—Crowe, F. T. & Co.
 Hull, Alonzo
 Johns, H. W.-Manville Co., 550 1st av, S
 Miles, Z. C. & Piper Co.
 Rhoads, Apfel & Earnest
 Schwabacher Hardware Co.
 SPOKANE—Brown, Wm.
 Brown Bros.
 Henderson, L. A.
 Holley, Mason Hardware Co.
 WALLA WALLA—Loney, Samuel

WEST VIRGINIA.

WHEELING—Caldwell, B. F. & Co. (Iron & Steel)
 Chapman, W. H. & Sons
 Johnson's, Geo. W. Sons
 Wilson, W. A. & Sons

WISCONSIN.

MILWAUKEE—Badger Roofing Co., 318 Poplar
 Frankfurth, Wm. Hardware Co., 119 W Water
 Johns, H. W.-Manville Co., 271 Claybourn
 Monsted, A. & Co., Pabst bldg
 Pritzlaff, John Hardware Co., 51 W Water
 South Side Roofing Co., 235 Reed
 Winding- & Gezelschap, Pabst bldg

Roofing Materials (Asphalt)

(See Asphalt Dealers & Importers; also Asphalt Miners & Refiners; also Roofing, Asphalt.)

Roofing Nails

(See Nails, Roofing & Sheathing.)

Roofing (Paroid)

Bird, F. W. & Son, East Walpole, Mass.
 BURTON, W. J. CO. (Mich. State Agents), 164 W Larned, Detroit, Mich. (See adv. index, end of book)

Roofing Pitch

(See Pitch, Paving & Roofing)

Roofing Plate, Metals, Etc.

(See Tin Plate, Metals, Etc.; also Tin Plate Mfrs.; also Tin Plate Dipperies)

Roofing (Rexoid)

Stowell Mfg. Co., 454 West Side av, Jersey City, N. J.

***Roofing ("Roofrite")**

LEHON CO. (Rubber Surface), W 43d & Lincoln, Chicago, Ill. (See adv. index, end of book)

Roofing (Rubber)

American Asphaltum & Rubber Co. ("Parlette"), Women's Temple, Chicago, Ill.
McDonough, S. E. & Co. ("Our Own" Brand Lap Seal), Hazelwood, Pittsburg, Pa.
Lincoln Waterproof Cloth Co. ("Compo," "Lythoid"), Bound Brook, N. J.
Patent Vulcanite Roofing Co. ("Vulcanite"), 625 S Campbell av, Chicago, Ill.
Sall Mountain Asbestos Mfg. Co. ("Reliance," "Miko"), 68 S Canal, Chicago, Ill.
Woodley, J. C. & Co. ("Compo Rubber"), 454 S Clark, Chicago, Ill.

Roofing Slag

(See Slag, Roofing & Paving.)

Roofing Slate (Asbestos)

Asbestos Sblinge, Slate & Sheathing Co. ("Century"), Ambler, Pa.

Roofing Slate Mfrs.

(NOTE—Slate quarried in Maine is all black, ditto Virginia, while that quarried in Pennsylvania and Maryland is also black, but borders on dark blue, and is advertised by some firms as dark blue. Slate quarried in New York is red of various tints, while that quarried in Vermont is of various colors, such as green, purple, variegated, etc.)

ARKANSAS.

MENA—Arkansas Red Slate Co.
Consolidated Slate Mfg. Co.
Cracker State Slate Co.
Keystone Slate Co.
National Slate Mfg. Co.
SLATINGTON—Southwestern Slate Co.

GEORGIA.

ROCKMART—Rockmart Slate Co.

ILLINOIS.

CHICAGO—Southwestern Slate Co.

MAINE.

BANGOR—Brownville Standard Slate Co.
BATH—Monson Consolidated Slate Co.
BROWNVILLE—Brownville Maine Slate Co.
Merrill Brownville Slate Co.
MONSON—Monson Maine Slate Co.
NORTH BLANCHARD—Maine National Slate Co.
PORTLAND—Monson Slate Co.

MARYLAND.

(The slate quarries of this State are on the Penna. State line, and the P. O. address is Delta, Pa.)

BALTIMORE—Baltimore-Peach Bottom Slate Co., Union Trust bldg
Hughes, H. A. Co. (Inc.) (Wholesalers), Calvert bldg

MASSACHUSETTS.

BOSTON—Bash, Chas. (Mfrs. Agt.), 101 Tremont
Maine Slate Co. (Tbick Slates a Specialty), Mathews Slate Co. 178 Devonshire
Monson Maine Slate Co. (Unfading Black), 113 Devonshire. Quarries at Monson, Me.
WORCESTER—Brownville Maine Slate Co.

NEW JERSEY.

NEWARK—Mutual Slate Co. (Quarries, Portland, Pa.)

NEW YORK.

GRANVILLE—American Sea Green Slate Co.
Edwards Slate Co.
Granville Slate Co.
Griffith, Thos. R.
Hughes, W. H. Co.
Hughes, Wm. Slate Co.
Montauk Slate Co.
Norton Bros.
O'Brien Bros.
O'Brien, John W.
Owens, Owen W. Sons
Rice Bros.
Sheldon, F. C.
Vermont Slate Co. (Inc.)
Williams, R. J. Slate Co.

MIDDLE GRANVILLE—(See also Granville)
McCormick Slate Co.
Pearhyn Slate Co.

NEW YORK—Galt, John & Sons, 253 B'way
Johnson, E. J. Co. (Dealers), 38 Park Row
Kirtland, W. H., 1123 B'way
Slatington Slate Co., 181 B'way. Quarries in Slatington, Pa.
Wells, Artbur, 1133 B'way

OHIO.

CLEVELAND—Auld & Conger Co., 262 Prospect. Quarries at Bangor, Pa., & Poultney, Vt.
Cleveland Slate Co. (Quarries, Len Argyl, Pa.)
COLUMBUS—Columbus Slate Co. (Wholesale)

PENNSYLVANIA.

ALLEGHENY—Pittsburg Slate Co. Quarries, Bangor, Pa.
ALLENTOWN—Bittner Slate Co.
Blue Valley Slate Co.
BANGOR—Auld, Conger & Co. Office, Cleveland, O.
Bangor Crescent Slate Co. Office, Easton, Pa.
Bangor Excelsior Slate Co.
Bangor International Slate Co.
Bangor Peerless Slate Co.
Bangor Slate Co. (Unfading Black)
Bangor Slate Mining Co.
Bangor Structural Slate Co.
Bangor Valley Slate Co.
Columbia Bangor Slate Co.
Hercules Slate Co.
Moyer, J. S. & Co.
Pittsburg Slate Co. (of Allegheny)
Schaeffer, R. F.
Schoonover, R. P. & Co.
Stoddard, D. & Son

BATH—Chapman Superior Slate Co.
BETHLEHEM—Chapman Slate Co.
Heimbach Slate Co.

Moyer, J. S. & Co. (Inc.)
CARBONDALE—Valley Hard Vein Slate Co.
CHAPMAN QUARRIES—Keystone Slate Co.
DANIELSVILLE—Amy Slate Co.

Bryan Slate Co.
Cambria Slate Co.
Henry Slate Co.
Hower Quarries Co.
Lobb, Edwards & Co.
Motgomery Slate Co.
Sewell Slate Co.

DELTA—Excelsior Slate Co.
Hughes, H. A. Co. (all kinds)
Jones, R. L. & Co.
Miles Peach Bottom Slate Co.
Peach Bottom Slate Co.
Peach Bottom Slate Mfg. Co. (Black) (See Phila.)
Peerless Slate Co.
Proctor Slate Co.

EAST BANGOR—American Slate Co.
Bray, J. & Co. (Dealers)
East Bangor Consolidated Slate Co.
Mutton & Bray

EAST STROUDSBURG—Hallett, Jno. W. (Dealers)
EASTON—American Slate Co.
Bangor Excelsior Slate Co.
Genuine Bangor Slate Co.
Penna. Hard Vein Slate Co.

EDELMANS—Whitesell & Co.
EMERALD—Mauch Chunk Slate Co.

Williams, Owen T. & Sons
ERIE—Fleming Slate Co. (Quarries, Poultney, Vt.)

LANCASTER—Peach Bottom Roofing Slate Co.
LEHIGHTON—Lehighton Slate Co.
LYNNPORT—Ontalaunee Slate Mfg. Co.
MAUCH CHUNK—Chapman Standard Slate Co.
NAZARETH—Alpha Slate Co.

Belfast Slate Co.
PEN ARGYL—Bangor Hardy Slate Co.
Cleveland Slate Co. (Office, Cleveland, O.)
Crown Slate Co.
Dexter Slate Co.
Excelsior Slate Co.
Grand Central Slate Co.
Harding, Williams & Co.
Jackson Bros.
Jackson, Richard Slate Co.
Kitto, C. & Co.
Kreas, J. M. & Co.
Parson Bros.
Pen Argyl Valley Slate Co.
Sandt, Quintus & Co.
Stephens, Jackson & Co.

PHILADELPHIA—CROPPER, R. T. (Keystone, Chapman & Peachbottom), 24 S 7th. (See adv. on following page)

Emack, Jno. D., Stephen Girard bldg.
Kimes, J. B. & Co., 1822 Filbert
Miller, O. A. Slate Co., 127 W Logan
Peach Bottom Slate Mfg. Co. (Black), Builders Exchange. Quarries: Delta, Pa.

PITTSBURG—O'Halloran & Jacobs (Johbers, also Slaters' Tools & Supplies), Park bldg
PITTSTON—Pittston Slate Co.
Oak Hill Slate Co.

PORTLAND—Mutual Slate Co. (Office, Newark, N. J.)

POTTSTOWN—Pelican Slate Mfg. Co. (Quarries, Wind Gap, Pa.)

SHENANDOAH—Cambridge Slate Co.

SLATEDALE—Mack, L. & Co.
SLATEFORD—Snowden-Bangor Slate Co.



YOUR reputation depends on your slate as well as your work. Perfect work on YOUR part will not satisfy your customer if bad slate causes his roof to give continual trouble and expense. He blames YOU—not the man who sold you the slate—it hurts YOUR reputation, and it costs YOU trade and loss of profit. YOU can protect yourself by ordering from

Meadow Brook Slate Company

W. W. HUGHES, Treasurer,

Manufacturers, Shippers and Exporters
of all kinds of

SLATE MATERIAL

Upper Main St. SLATINGTON, PA.

P. O. BOX 454.

THE AKRON ROOFING TILE CO.

MANUFACTURERS OF

Spanish, Shingle, Summit, Mission and Roman

GLAZED AND PLAIN



SPANISH.

New York Representative—Person & Co., 160 Fifth Ave.
Pittsburgh, Pa.—Scott A. White, Lewis Building.
Chicago, Ill.—Bonner & Marshall Co., Chamber of
Commerce.
Detroit, Mich.—F. B. Holmes & Co., Hammond Building.

Vitrified Roofing Tile

PLATES FOR FLAT ROOFS AND
FLOORS. CRESTINGS, FINIALS
AND HIP ROLLS. QUARRY TILES

ASK FOR CATALOGUE.

Minneapolis—Johnson & Jackson, Lumber Exchange.
Milwaukee, Wis.—L. H. Taylor, 22 Miller Building.
Los Angeles, Cal.—Mark Kirkby, 1323 Berendo Street.
New Orleans, La.—F. C. Ford, 306 Baronne.
Buffalo, N. Y.—John H. Black, 9 Builders' Exchange.

AKRON, OHIO

EUREKA SLATE QUARRIES

✿ ✿ ✿ Open in Poultney, Vermont, in 1855. ✿ ✿ ✿

THE OLDEST AND LARGEST UNFADING GREEN
SLATE QUARRIES IN THE UNITED STATES

EUREKA UNFADING GREEN, PURPLE and MOTTLED

Roofing & Slates

MADE BY THE MOST IMPROVED MACHINERY IN ANY DESIRED SIZE
OR THICKNESS. ✿ DRILLED AND COUNTERSUNK WHEN WISHED

SPECIAL ATTENTION TO ARCHITECTS' SPECIFICATIONS.

A. TUTTLE, Treasurer. FAIR HAVEN, VERMONT

LUDOWICI - CELADON CO.



TERRA COTTA ROOFING TILE OF HIGHEST GRADE

ALL THE STANDARD AND INTERLOCKING SHAPES IN
SEMI-GLAZE AND NATURAL REDS. ALSO FULL, MATT
AND SAND-BLAST GLAZES IN GREENS, YELLOW-GREENS
AND BROWNS, AS WELL AS MANY SPECIAL COLORS.

FOUR LARGE FACTORIES INSURE PROMPT DELIVERY

SEND FOR ESTIMATES, CATALOG AND SAMPLES

GENERAL SALES OFFICE:

509 Chamber of Commerce, CHICAGO, ILL.

CLEVELAND, O., 515 Cuyahoga Building
NEW YORK, N. Y., 156 Fifth Avenue
DENVER, COLO., 522 Colorado Building
NEW ORLEANS, LA., 322 Hibernia Bank Building
WASHINGTON, D. C., 822 Colorado Building
SAVANNAH, GA., 534 Bryan Street, East

AGENCIES IN PRINCIPAL CITIES

SLATE HILL—Foulks, Jones & Sons

Royal Blue Slate Co.

Slatedale Slate Co.

SLATINGTON—American School Slate Co.

Atlas Slate Co.

Bachman Bros.

Blue Diamond Slate Co.

Blue Mountain Slate Co.

Cambridge Slate Co.

Carbon Slate Co.

Columbia Slate Co.

Crescent Slate Co.

Dalby, R. H. & Co.

East End Slate Co.

Empire Slate Co.

Eureka Slate Mfg. Co.

Fairview Slate Co.

Franklin Slate Co.

Great Western Slate Co.

Griffith Bros. Slate Co.

Hazle Dell Slate Co.

Henry Slate Co.

Hower, J. K.

International Slate Co.

Kester Slate Co.

Lehigh Valley Slate Co.

McKenna, David

MEADOW BROOK SLATE CO. (See

adv. on preceding page)

Miller, O. A. Slate Co.

Monarch Slate Mfg. Co.

Penna. Slate Co.

Peters, E. D. & Sons

Pittston Slate Mfg. Co.

Provident Slate Co.

Reliance Slate Co.

Roberts, M. J. & Co.

SCRANTON SLATE CO. (See adv. below)

Sieger, Henry N. & Son

Slatington-Bangor Slate Syndicate

Slatington Slate Co.

Standard Slate Co.

Star Slate Co.

Steckel, Samuel

Sun Slate Co.

Unger, John F.

Washington Slate Co.

Williams, Owen T. & Son

Wyoming Slate Co.

Zellner, Thos.

WALNUTPORT—American Slate Works

Caskie, S. & Son

Hahn, Granville

Hughes, David D. & Sons

WEST BANGOR—Evans, E. W. & Co. (Ltd.)**WILKES-BARRE—Joese, Owen D. Quarries,**

Danielsville, Pa.

WIND GAP—Blue Mountain Slate Co.

Pelican Slate Mfg. Co. (Office, Pottstown, Pa.)

Phoenix Slate Co.

VERMONT.**CASTLETON—Jones, John Slate Co.****FAIR HAVEN—Allen's, S. Sons**

Dagenis, Joseph

Durick & Flanagan

Durrick, Keenan & Co. (Ltd.)

EUREKA SLATE QUARRIES. (A. Tuttle, Treas.) (See adv. index, end of book)

Fair Haven Marble & Marbleized Slate Co.

Lloyd, R. E.

Lloyd, W. H.

Minogue, Jas.

New Empire Slate Co.

Pelkey, W. H.

Scotch Hill Slate Co.

Vermont Unfading Green Slate Co.

Young, A. B.

NORTHFIELD—Vermont Black Slate Co.

Green Mountain Slate Co.

Griffiths & Nathaniel

Jones & Roberts

Mathews Consolidated Slate Co.

POULTNEY—Fleming Slate Co.

Griffith, Thos. R.

WEST PAWLET—Beecher Slate Co.

Rising & Nelson Slate Co.

VIRGINIA.**ARVONIA—Arvoia Slate Co. (Office Lynch-**

Le Sueur Slate Co.

Pierce & Roberts Slate Co.

Pitts, A. L.

Williams Slate Co.

LYNCHBURG—Arvoian Slate Co. Quarries,

Arvonla, Va.

RICHMOND—Williams Slate Co., 18 S 9th.

Quarries at Arvoia, Va.

SNOWDEN—Williams Bros. Co.**Roofing Slate (Purple)**

Columbus Slate Co., Columbus, O.

CROPPER, R. T. (Mfrs.) Agent for

Akron, 24 S 7th, Phila., Pa. (See adv. be-

low)

Edwards Slate Co., Granville, N. Y.

Galt, John & Sons (Jobbers), 253 B'way, N. Y.,

& 95 Washington, Chicago

Griffith & Nathaniel, Poultney, Vt.

Hughes, Wm. H., Granville, N. Y.

Lloyd, R. E., Fair Haven, Vt.

Lloyd, W. H., Fair Haven, Vt.

Penrhyn Slate Co., 493 E 138th, New York

Vermont Unfading Green Slate Co., Fair Haven, Vt.

Roofing Slate (Red)

Columbus Slate Co., Columbus, O.

Edwards Slate Co., Granville, N. Y.

Galt, John & Sons, 253 B'way, New York, &

95 Washington, Chicago, Ill.

Hower, J. K. (Jobber), Slatington, Pa.

Hughes, Wm. H., Granville, Pa.

Norton Bros., Granville, N. Y.

Penrhyn Slate Co., 493 E 138th, New York

Roofing Slate (Sea Green)

American Sea Green Slate Co., Granville, N. Y.

Auld & Conger, 246 Prospect, Cleveland, O.

Beecher Slate Co., West Pawlet, Vt.

Columbus Slate Co., Columbus, O.

Edwards Slate Co., Granville, N. Y.

Fair Haven Marble & Marbleized Slate Co., Fair Haven, Vt.

Fleming Slate Co., Poultney, Vt.

Galt, John & Sons, 253 B'way, New York, &

95 Washington, Chicago, Ill.

Griffith & Nathaniel, Poultney, Vt.

Hower, J. K. (Jobber), Slatington, Pa.

Hughes, Wm. H., Granville, N. Y.

Johnson, E. J. & Co., 38 Park Row, N. Y.

Norton Bros., Granville, N. Y.

Owens', Owen W., Sons, Granville, N. Y.

Penrhyn Slate Co., 493 E 138th, New York

Poultney Consolidated Slate Co., Poultney, Vt.

Rising & Nelson Slate Co., West Pawlet, Vt.

Slatington-Bangor Slate Syndicate, Slatington, Pa.

Vermont Slate Co. (Inc.), Granville, N. Y.

Roofing Slate (Unfading Green)**EUREKA SLATE QUARRIES (A. Tuttle, Treas.), Fair Haven, Vt. (See adv. index, end of book)**

Galt, John & Sons (Jobbers), 253 B'way, N. Y., & 95 Washington, Chicago, Ill.

Lloyd, Evan B., Fair Haven, Vt.

Lloyd, W. H., Fair Haven, Vt.

Minogue, Jas., Fair Haven, Vt.

New Empire Slate Co., Fair Haven, Vt.

Poultney Consolidated Slate Co., Poultney, Vt.

Vermont Unfading Green Slate Co., Fair Haven, Vt.

Roofing Slate (Unfading Mottled)*EUREKA SLATE QUARRIES (A. Tuttle, Treas.), Fair Haven, Vt. (See adv. index, end of book)*****Roofing Slate (Unfading Purple)****EUREKA SLATE QUARRIES (A. Tuttle, Treas.), Fair Haven, Vt. (See adv. index, end of book)*****Roofing (Smooth Surface)****ACME ASPHALT ROOFING MFG. CO.** ("Acme" Brand), 65 Mallory av, Jersey City, N. J. (See adv. index, end of book)**Roofing Tile (Actinolite)**

Le Goullon, P., 614 Bessemer bldg, Pittsburg, Pa.

Machwirt Bros., Buffalo, N. Y.

Powell, M. W. Co., 204 Dearborn, Chicago, Ill.

Roofing Tile (Asphalt)

Commonwealth Roofing Co. ("Economite" Flexible & Made Entirely of Fire, Water & Frost Proof Bituminous Materials), 17 Battery pl, New York

Scranton Slate Company, Incorporated

EVERYTHING IN SLATE

ALL GRADES**ROOFING SLATE, BLACKBOARDS, STAIR TREADS, PLATFORMS, PLUMBERS' SLABS, KITCHEN SINKS, LAUNDRY TRAYS, URINALS, STRUCTURAL SLATE, ELECTRICAL SLATE, ETC., ETC. ❖ ❖ ❖****QUARRIES AND MILLS****SLATINGTON, PA.****Long Distance Telephone.****R. T. CROPPER**

Akron Vitrified Roofing Tile. Miner and Shipper of "Peach-Bottom" Roofing Slate (Quarries at Delta, Pa.) also dealer in all Standard Grades of Roofing Slate from Vermont and Pennsylvania Quarries.

Roofing Material in Slate and Tile.**305 BUILDERS EXCHANGE, PHILADELPHIA**

Roofing Tile (Cement)

American Cement & Tile Mfg. Co. ("Bonanza" Flat Tile for Factories, Depots, etc.), Wampum, Pa.
Decatur Cement Roof & Block Co., Decatur, Ind.
Perth Amboy Cement, Stone & Roofing Tile Co. (Any Color), Perth Amboy, N. J.

***Roofing Tile (Conosera)**

LUDOWICI-CELADON CO., 138 Wash-ington, Chicago, Ill. (See adv. index & branch offices, end of book)

***Roofing (Tile Glass)**

LUDOWICI-CELADON CO., 138 Wash-ington, Chicago, Ill. (See adv. index & branch offices, end of book)

***Roofing Tile (Metal)**

(See also Shingles, Metallic.)

MULLINS, W. H. CO., Salem, O. (See adv. index, end of book)

Roofing Tile (Metallic, Spanish Shapes)

BERGER MFG. CO., Canton, O. (See adv. index & branch offices, end of book)
MERCHANT & EVANS CO. (Inc.), 517 Arch, Phila., Pa. (See adv. index & branch offices, end of book)
Meurer Bros. Co., Brooklyn, N. Y.
MULLINS, W. H. CO., Salem, O. (See adv. index, end of book)

Roofing Tile (Promenade)

AKRON ROOFING TILE CO., Akron, O. (See adv. index, end of book)
Cincinnati Roofing Tile & Terra Cotta Co., Mitchell av & B. & O. S. W. Ry., Cincinnati, O.
CROPPER, R. T. (Mfrs.' Agent for Akron), 24 S 7th, Phila., Pa. (See adv. on preceding page)
LUDOWICI-CELADON CO., 138 Wash-ington, Chicago, Ill. (See adv. index & branch offices, end of book)

***Roofing Tile (Roman Grecian)**

AKRON ROOFING TILE CO., Akron, O. (See adv. index, end of book)
CROPPER, R. T. (Mfrs.' Agts. for Akron), 24 S 7th, Phila., Pa. (See adv. on preceding page)

Roofing Tile (Terra Cotta)

AKRON ROOFING TILE CO., Akron, O. (See adv. index, end of book)
Alfred Clay Co. ("Regal"), Alfred, N. Y.
Bennett, Edw. Roofing Tile Works, Baltimore, Md.
CARTER, BLACK & AYERS (Inc.), Mfrs. Agents, 1 Madison av, New York. (See adv. index, end of book)
Cincinnati Roofing Tile & Terra Cotta Co. (Vitrified), Mitchell av & B. & O. S. W. Ry., Cincinnati, O.
CINCINNATI WALL TILE CO. (Mfrs.' Agents), 206 E 5th, Cincinnati, O. (See adv. index, end of book)
CROPPER, R. T. (Mfrs.' Agent for Akron), 24 S 7th, Phila., Pa. (See adv. on preceding page)
FISKE & COMPANY (Inc.) (Mfrs.' Agents), 161 Devonshire, Boston, Mass., & Flatiron bldg, New York. (See adv. index, end of book)
Gladding, McBean & Co., San Francisco, Cal.
Works: Lincoln, Cal.
Globe Roofing Tile Co., 218 Lasalle, Chicago, Ill.
Huntington Roofing Tile Co. (Shingle Tile), Huntington, W. Va.
LUDOWICI-CELADON CO. ("Cela-don"), 138 Washington, Chicago, Ill. (See adv. index & branch offices, end of book)
MAURER, HENRY & SON, 420 E 23d, New York, & Penna bldg, Phila., Pa. Works: Maurer, N. J. (See adv. front inside cover)
Mound City Roofing Tile Co., St. Louis, Mo.
National Roofing Tile Co. (Interlocking Tile), Ohio Roofing Tile Co., Ottawa, O. Lima, O.
Person & Co. (all Shapes), 160 5th av, New York

THOMAS, E. H. (Mfrs.' Agent), 1123 B'way, New York
United States Roofing Tile Co., Parkersburg, B'way, New York

***Roofing Tile (Terra Cotta Glazed)**

AKRON ROOFING TILE CO., Akron, O. (See adv. index, end of book)
LUDOWICI-CELADON CO., 138 Wash-ington, Chicago, Ill. (See adv. index & branch offices, end of book)
Western Roofing Tile Co., Coffeyville, Kan.

Roofing Tile (Terra Cotta Graduated)

AKRON ROOFING TILE CO., Akron, O. (See adv. index, end of book)
Cincinnati Roofing Tile & Terra Cotta Co. (Vitrified), Mitchell av & B. & O. S. W. Ry., Cincinnati, O.
CROPPER, R. T. (Mfrs.' Agent for Akron), 24 S 7th, Phila., Pa. (See adv. on preceding page)
Globe Roofing Tile Co., 218 Lasalle, Chicago, Ill., & 1133 B'way, New York
LUDOWICI-CELADON CO. ("Cela-don"), 138 Washington, Chicago, Ill. (See adv. index & branch offices, end of book)
Person & Co. ("Akron"), 160 5th av, New York
THOMAS, E. H. (Mfrs.' Agent), 1123 B'way, New York

***Roofing Tile (Terra Cotta, Spanish Shapes)**

AKRON ROOFING TILE CO., Akron, O. (See adv. index, end of book)
Cincinnati Roofing Tile & Terra Cotta Co. (Vitrified), Mitchell av & B. & O. S. W. Ry., Cincinnati, O.
CROPPER, R. T. (Mfrs.' Agent for Akron), 24 S 7th, Phila., Pa. (See adv. on preceding page)
Globe Roofing Tile Co., 218 Lasalle, Chicago, Ill., & 1133 B'way, New York
LUDOWICI-CELADON CO. ("Im-perial"), 138 Washington, Chicago, Ill. (See adv. index & branch offices, end of book)
PERSON & CO. (Akron Tile), 160 5th av, N. Y. (See adv. index, end of book)

***Roofing Tin in Rolls**

MERCHANT & EVANS CO. (Inc.), 517 Arch, Phila., Pa. (See adv. index & branch offices, end of book)

***Roofing Tin Mfrs**

AMERICAN SHEET & TIN PLATE Co., Frick bldg, Pittsburgh, Pa. (See adv. index & branch offices, end of book)
MERCHANT & EVANS CO. (Inc.), 517 Arch, Phila., Pa. (See adv. index & branch offices, end of book)

Roofing & Siding (Iron & Steel)

(* Indicates Rolling Mills.)

(See also Iron & Steel Corrugated.)
***AMERICAN ROLLING MILL CO.,** Middletown, O. (See adv. index, end of book)
***AMERICAN SHEET & TIN PLATE** Co., Frick bldg, Pittsburgh, Pa. (See adv. index & branch offices, end of book)
***BERGER MFG. CO., Main Office &** Works, Canton, O. (See adv. index & branch offices, end of book)
BURTON, W. J. CO., 164 W Larned, Detroit, Mich. (See adv. index, end of book)
Biel, Morton & Co., 61 Hudson, Jersey City, Cambridge Roofing Co., Cambridge, O. N. J.
CANTON ART METAL CO., Canton, O. (See adv. index, end of book)
Chattanooga Roofing & Foundry Co., Chattanooga, Tenn.
Conner, Chas. H. & Co., 17th & Arbogast, Louisville, Ky.
Crittenden Roofing & Mfg. Co., 704 S 54th, Minneapolis, Minn.
Dickelman Mfg. Co., Forest, O.
Duluth Corrugating & Roofing Co., Duluth, Minn.
East Birmingham Roofing & Corrugating Co., Birmingham, Ala.

EDWARDS MFG. CO., Eggleston av, 4th & 5th, Cincinnati, O. (See adv. index & branch offices, end of book)
ELLER MFG. CO., Canton, O. (See adv. index, end of book)
*Empire Iron & Steel Co., Niles, O.
Excelsior Iron Roofing Co., Aurora, Ind.
Follansbee Bros. Co., 3d & Liberty avs, Pittsburgh, Pa.

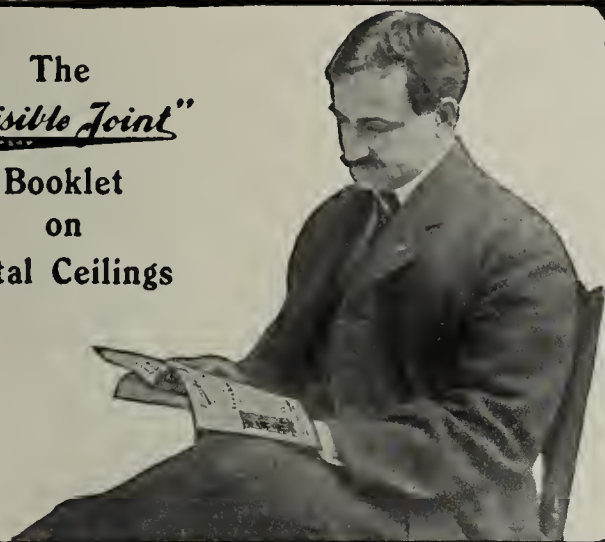
Fostoria Steel Roofing Co., Fostoria, O.
Garry Iron & Steel Co., Cleveland, O.
Gedge Bros. Iron Roofing Co., Anderson, Ind.
Globe Iron Roofing & Corrugating Co., Newport, Ky.
Goff, Horner & Co. (Ltd.) ("Muskingum"), Frick bldg, Pittsburgh, Pa. Works: Zanesville, O.
Hyndman Steel Roofing Co. (Corrugated Iron, Asbestos Lined), 318 E 2d, Cincinnati, O.
INDIANAPOLIS STEEL ROOFING & Corrugating Co., Indianapolis, Ind. (See adv. index, end of book)
Inland Steel Co., First National Bank bldg, Chicago, Ill. Works: Indiana Harbor, Ind., & Chicago Heights, Ill.
Iron City Metal Ceiling Co., 2412 Penn av, Pittsburgh, Pa.
Kanneberg Roofing & Ceiling Co., Canton, O.
Kansas City Roofing & Corrugating Co., 416 Delaware, Kansas City, Mo.
La Crosse Steel Roofing & Corrugating Co., La Crosse, Wis.
MILWAUKEE CORRUGATING CO., Milwaukee, Wis. (See adv. index, end of book)

*Muskingum Valley Steel Co., Zanesville, O.
National Roofing & Corrugating Co., Niles, O.
New England Steel Roofing Co., Worcester, Mass.
Niles Iron & Steel Roofing Co., Niles, O.
N. Y. Iron Roofing & Corrugating Co., Jersey City, N. J.
NEW YORK METAL CEILING CO., 537 W 24th, New York. (See adv. index, end of book)
Ornamental Iron & Wire Co. (Inc.), Portsmouth, Va.
Penn Metal Ceiling & Roofing Co. (Ltd.), 23d & Hamilton, Philadelphia, Pa.
Pittston Iron Roofing Co., Pittston, Pa.
Porter Iron Roofing & Corrugating Co., 27 W Front, Cincinnati, O.
Reeves Mfg. Co., Canal Dover, O.
St. Louis Corrugating Co., 117 Souland, St. Louis, Mo.
St. Paul Roofing, Cornice & Ornament Co., St. Paul, Minn.
***SCAIFE, WM. B. & SONS CO., 221** 1st av, Pittsburgh, Pa. (See adv. index, end of book)
Scott Roofing & Mfg. Co., 234 E Front, Cincinnati, O.

Sheet Metal Mfg. Co., Niles, O.
Souther, E. E. Iron Co., St. Louis, Mo.
Southern Roofing Co., Atlanta, Ga.
Steel Roofing & Stamping Works, Des Moines, Ia.
Sykes Metal Lath & Roofing Co., Niles, O.
Vinton Steel Works Co., Vinton, Ia.
Warren Independent Steel Co., Warren, Ill.
*West Virginia Steel Co., Wheeling, W. Va.
*Wheeling Corrugating Co., Wheeling, W. Va.
*Youngstown Sheet & Tube Co. (Puddled Iron Sheets a Specialty), Youngstown, O.
*Youngstown Iron & Steel Roofing Co., Youngstown, O.

**When writing to firms
whose names appear
in this book please
mention
HENDRICKS'
COMMERCIAL
REGISTER.**

The
"Invisible Joint"
 Booklet
 on
 Metal Ceilings



We have recently issued a beautiful booklet, which, in a very descriptive manner tells all about

"Invisible Joint"
 TRADE MARK

METAL CEILING AND WALL FINISH.

It tells how this material is made and why it is superior to all other coverings. It tells about ceilings from the time of the early Egyptians up to the present day, and contains important information for the Architect, Contractor.

Dealer and Prospective Builder.

Send for this booklet—mention this paper and your line of business.

**MILWAUKEE
 ARTISTIC METAL CEILING CO.
 MILWAUKEE, WIS.,
 U. S. A.**



CORNICES



SKY-LIGHTS

SEND FOR CATALOG AND PRICES ON OUR
 SHEET METAL ROOFING AND SIDING,
 EAVES TROUGH, CONDUCTOR PIPE,
 ELBOWS AND MITRES.

LARGE STOCK

QUICK SERVICE

Galvanized Steel and Wire Hangers, Cut-Offs,
 Strainers, Ventilators. Continuous Roofing,
 Galvanized Iron, Tin Plate, Sheet Iron & Solder

*Milwaukee
 Corrugating Co.*

MILWAUKEE, WIS., U. S. A.

The largest sheet metal works in the middle west

"NEVERBREAK" CONDUCTOR HOOKS

Cresting, Ridge Roll, Roof Gutters, Cor-
 nices, Finials and Skylights, Iron Doors
 and Shutters, Curved Arches, Corrugated
 Awnings, Rock and Brick Face Fronts,
 Metallic Shingles, Etc.

ARCHITECTURAL SHEET METAL WORK

TO OUR ADVERTISERS AND SUBSCRIBERS.

At any time during the year, that you do not find classified in our book the names and addresses of the Manufacturers of any ARTICLE you are in the market to PURCHASE, please write us, giving as complete particulars as possible, and we will always endeavor to render you PROMPT SERVICE in furnishing you the names and addresses of such Manufacturers and without any cost or obligation. This does not include Mailing Lists.

S. E. HENDRICKS CO.

GEO. B. CARPENTER
BENJAMIN CARPENTER

HUBBARD CARPENTER
JOHN A. CARPENTER

Established 1840

GEO. B. CARPENTER & CO.

Manufacturers and Mill Agents

Cordage Twines Cotton Duck
Wire Rope Mill Supplies
Derricks Hoisting Machinery
Hose Belting Packing
Tents Flags Canvas Goods
Marine Hardware

GEN. WESTERN AGENTS
PEERLESS RUBBER MFG. CO.

AGENTS
DOBBIE FOUNDRY & MACHINERY CO.

GEN. AGENTS
ANNISTON CORDAGE CO.

SOLE AGENTS
OLD COLONY TRANSMISSION ROPE

5th Ave. & So. Water St.
CHICAGO

Roofs (Glass)

American Skylight & Iron Works, 221 Randolph, Jersey City, N. J.

Rope (Cast Steel Switching)

(See Rope, Steel Switching & Wrecking.)

Rope (Cotton)

Boscawan Mills (Inc.), Penacook, N. H.
CARPENTER, GEO. B. & CO., 202 S
Water, Chicago, Ill. (See adv. index, end of book)

Charlotte Cordage Co. (Clothes Line), Charlotte, N. C.
Cleveland Cotton Mills, Inc. (Clothes Lines, etc.), Cleveland, Mills, N. C.
Consolidated Cotton Duck Co., Baltimore, Md.
Elder, Jas., 230 W Coulter, Gtn., Phila., Pa.
Estes Mills, Inc., Fall River, Mass.
Goss Bros., Fall River, Mass.
Holden, Jas., Fall River, Mass.
Hooper Sons Mfg. Co., 509 Arch, Phila., Pa.
Lambeth Rope Corp'n (Transmission, etc.), New Bedford, Mass.
Laural Cotton Mills, Laural, Miss.
SAMSON CORDAGE WORKS (Rope,
Cotton, etc.), 88 Broad, Boston, Mass.
(See adv. index, end of book)
Small Bros., Fall River, Mass.
Toohey, M. J. & Co., Fall River, Mass.
Tucker & Carter Rope Co. (Also Clothes Lines), 76 South, New York
Willard Mfg. Co., Willardville, N. C.

Rope Drives

Builders' Iron Foundry (Manilla), Providence, R. I.
Cresson, Geo. V. Co., Allegheny av & N 17th, Phila., Pa.
DODGE MFG. CO., Mishawaka, Ind.
(See adv. index & branch offices, end of book)
Howe Scale Co. (of Illinois), 1315 Wabash av, Chicago, Ill.
Jones & Laughlin Steel Co., Pittsburg, Pa.
Link Belt Co., W 39th c Stewart av, Chicago, Ill., & 299 B'way, New York
Skillin & Richards Mf. Co., 147 Fulton, Chicago, Ill.
Strait, H. N. Mfg. Co. (Vertical or Horizontal), Kansas City, Mo.

Rope (Haulage & Transmission, Steel)

(See Rope, Steel Switching & Wrecking; also Wire Rope & Cables; also Rope, Manilla & Sisal)

Rope (Hay)

Wall Rope Works, 56 South, New York

***Rope Insulating Papers for Refrigerators & Cold Storage**

MUNN-PRICE CO. ("Diamond P"),
W B'way, New York. (See adv. index, end of book)
WATSON, H. F. CO., Erie, Pa. (See adv. index & branch offices, end of book)

Rope (Manilla Switch)

(See Rope, Manilla Transmission).

Rope (Manilla Transmission)

American Mfg. Co., 63 Wall, New York.
CARPENTER, GEO. B. & CO. ("Old Colony"), 202 S Water, Chicago, Ill. (See adv. index, end of book)
Columbian Rope Co., Auburn, N. Y.
Lambeth Rope Corp'n. (Cotton), New Bedford, Mass.
New York Cordage Co. ("Nycord"), 79 Wall, New York
Plymouth Cordage Co., North Plymouth, Mass.
Portland Cordage Co., Portland, Ore.
Tubbs Cordage Co., San Francisco, Cal.
Whitlock Cordage Co., 46 South, New York

Rope (Manilla & Sisal)

Allen's, D. Sons Rope Co., 386 3d av
American Mfg. Co., 63 Wall, N. Y.

Bailey, Christopher & Son, 320 Market, Phila., Pa.

Bailey, John T. & Co., S. Water & Morris, Philadelphia, Pa.
Bay State Cordage Co. (Also New Zealand), Newburyport, Mass.
Boehme & Rauch Cordage Co., Monroe, Mich.
Broderick & Bascom Rope Co., 809 N Main, St. Louis, Mo.

CARPENTER, GEO. B. & CO., 202 S
Water, Chicago, Ill. (See adv. index, end of book)

Chelsea Jute Mills, 1155 Manhattan av. & 346 B'way, New York
Columbian Rope Co. (Transmission, Hoisting, Bale, Hay, Hlde, Rope, also jute & Hemp Rape, etc.), Auburn, N. Y.
De Grauw, Aymar & Co., 35 South, N. Y.
Fitler, Edw. H. Co., 22 N Delaware av, Philadelphia, Pa.
Hoffman-Corr Mfg. Co., 55 White, New York
Hunt, C. W. Co. (Stevedore), 45 Bway, New York, Works West New Brighton, S. I., N. Y.

Jackson, Thos. & Son (also Jute), Reading, Pa.
Jacobs, Chas. M. Cordage Co., Neave bldg, Cincinnati, O.

Jacobs Cordage Co. (Harriet & Budd), Cincinnati, O.

Ludlow Cordage Co., 133 Essex, Boston, Mass. Works, Ludlow, Mass.

New York Cordage Co., 79 Wall, New York
Overman & Schrader Cordage Co., Cincinnati, O.
Peoria Cordage Co., Peoria, Ill.

Planet Mills Mfg. Co. (Jute Rope), 335 Carroll, Brooklyn, N. Y.

Plymouth Cordage Co., N. Plymouth, Mass.
Portland Cordage Co. (Trade Mark "P"), Portland, Ore.

Standard Cordage Co. (Walk Laid Rope a Specialty), 82 Beaver, N. Y.

Standard Rope & Twine Co., 17 State, New York

Tragle Cordage Co. (Wholesale Dealers), Reading, Pa.

Travers Bros. Co., 41 Worth, N. Y.

Tubbs Cordage Co., San Francisco, Cal.

Tucker & Carter Rope Co., 76 South, New York, and New London, N. C.

Upson-Walton Co. (Wholesale), Cleveland, O.

Wall Rope Works, 56 South, N. Y.

Waterbury Co. (Inc.), 69 South, New York
Whitlock Cordage Co., 46 South, New York

Rope (Rawhide)

Chicago Rawhide Mfg. Co., 75 E. Ohio, Chicago, Ill.

National Rawhide & Belting Co., Niles, Mich.

Western Rawhide & Belting Co., Milwaukee, Wis.

Rope (Steel Switching & Wrecking)

AMERICAN STEEL & WIRE CO., The
Rookery, Chicago, Ill. (See adv., index and branch offices, end of book)

Broderick & Bascom Rope Co., 809 N Main, St. Louis, Mo.

CARPENTER, GEO. B. & CO., 202 S
Water, Chicago, Ill. (See adv. index, end of book)

Hazard Mfg. Co. (Locomotive Cast Steel), Wilkesbarre, Pa., & 50 Dey, New York

Leschen, A. & Sons Rope Co., 920 N 1st, St. Louis, Mo.

MACOMBER & WHYTE ROPE CO., 21 S
Canal, Chicago, Ill., & 126 Centre, New York. (See adv. index & branch offices, end of book)

National Wire Corporation, New Haven, Conn.

ROEBLING'S, JNO. A. & SONS CO. of N
Y., Trenton, N. J., & 117 Liberty, New York. (See adv. index & branch offices, end of book)

WRIGHT WIRE CO., Worcester, Mass.
See adv. index & branch offices, end of book)

Rope Wire

(See also Wire Rope & Cable Mfrs.)

Ropes (Plough Steel)

Hazard Mfg. Co. (Cast Steel & Plough Steel, Flat Rope), Wilkes-Barre, Pa.

Rosettes (Electric)

General Electric Co., Schenectady, N. Y.
Hart Mfg. Co., Hartford, Conn.
Paiste, H. T. Co., 32d & Arch, Phila., Pa.
Pass & Seymour, Inc., Solvay, N. Y.
Peru Electric Mfg. Co., Peru, Ind.
Sears, Henry D., 131 State, Boston, Mass.
Trumbull Electric Co., Plainville, Ohio

Rosette (Fuseless)

General Mfg. & Supply Co., Trenton, N. J.
Pass & Seymour, Solvay, N. Y.

Rosettes & Pickets (Iron)

Clark, John W., Albany, N. Y.
Keystone Drop Forge Works (Drop Forged), Chester, Pa.
Stowell Mfg. & Foundry Co., South Milwaukee, Wis.

***Rosettes & Pickets (Steel)**

BRAUN, J. G., 322 S. Paulina, Chicago, Ill.
& 537 W 35th, New York, N. Y. (See adv. index, end of book)
WORCESTER PRESSED STEEL CO., (Succ-
cessors to Worcester Ferrule & Mfg. Co.)
Worcester, Mass. (See adv. index, end of book)

Rosin Mfrs.

Martin, W. A. & Co., Wilmington, N. C.
Peninsular Naval Stores Co., Tampa, Fla.
Shotton, S. P. Co., Savannah, Ga.
Standard Naval Stores Co., Jacksonville, Fla.
Star Rosin Co. (Soap Makers, Rosins a Specialty), Savannah, Ga.

***Rotary Converters**

WESTINGHOUSE ELECTRIC & MFG.
Co., Pittsburg, Pa. (See adv. index & branch offices, end of book)

Rotary Rapper for Bench Molders

Fulton Foundry & Machine Co., 25 Furman, Bklyn, N. Y.

Round House Smoke Jacks (Fire Clay)

Streator Clay Mfg. Co., Streator, Ill.

Row-Locks

Laughlin, Thos. Co., Portland, Me.
Morss, A. S. Co., Boston, Mass.
Tiebout, W. J., 118 Chambers, N. Y. City
Wilcox, Crittenden & Co. ("Adirondack," "Davis," "Acme," etc.), Middletown, Conn.

Rubber Band Mfrs.

Goodyear Tire & Rubber Co., Akron, O.

Rubber Bumpers & Cushions

Goodrich, B. F. & Co., Akron, O.
Morgan & Wright (Inc.), 226 Jefferson av., Detroit, Mich.
Spinney-Wise Co., Lynn, Mass.

Rubber Goods (Druggists' & Surgical)

American Hard Rubber Co., 9 Mercer, New York
Canton Rubber Co. (Seamless Rubber Goods), Canton, O.

Faultless Rubber Co., Ashland, O.
Miller Rubber Mfg. Co., Akron, O.
Morgan & Wright (Inc.), 226 Jefferson av, Detroit
Rubber Products Co., Barberton, O.
Seamless Rubber Co., New Haven, Conn.

When writing to firms listed in this book please mention HENDRICKS' COMMERCIAL REGISTER

Rubber Goods (Moulded)

BOSTON BELTING CO., 260 Devonshire, Boston, Mass., & 100 Reade, New York. (See adv. index & branch offices, end of book)
Home Rubber Co., Trenton, N. J. (book)
Spinney-Wise Co., Lynn, Mass.

Rubber Horse Shoe Pads

Firestone Tire & Rubber Co., Akron, O.
Goodyear Tire & Rubber Co., Akron, O.
Home Rubber Co., Trenton, N. J.
Mears Rubber Co. ("Mears"), 338 Broadway, Brooklyn, N. Y.
Morgan & Wright (Inc.) ("Federal," "Samson," "Chicago," "Dexter," "Pacific," "Atlantic," "Sterling," "Atlas," "National," "Ajax," "Newport," "Rambler," "Peerless Cushion," "Carroll Road"), 226 Jefferson av., Detroit, Mich.
Peerless Rubber Co., 16 Warren, N. Y.
Plymouth Rubber Co., Stoughton, Mass.
Revere Rubber Co., Boston, Mass.
Voorhees Rubber Mfg. Co., Jersey City, N. J.

Rubber Mfrs. (Mechanical)

(See Index of Contents for all Other Rubber Specialties.)

BOSTON BELTING CO., 260 Devonshire, Boston, Mass., & 100 Reade, New York. (See adv. index & branch offices, end of book)

Boston Woven Hose & Rubber Co., Executive Office & Factory, Cambridgeport, Mass.
Elkhart Rubber Works, Elkhart, Ind.
Miller Rubber Mfg. Co., Akron, O.
Buckley, Jno. W. Mfg. Co., 69 Warren, N. Y.
Canfield, H. O. Co., Bridgeport, Conn.
Cincinnati Rubber Mfg. Co., Cincinnati, O.
Clinton Mfg. Co., 83 Grand av., Brooklyn, N. Y.
Consolidated Rubber Co., Trenton, N. J.
Consumers' Rubber Co., 1407 W 6th, N W, Cleveland, O.

Continental Rubber Wks., Erie, Pa.
Crescent Belting & Packing Co., Trenton, N. J.
Diamond Rubber Co., Akron, O.
Empire Rubber Mfg. Co., Trenton, N. J., & 60 Reade, New York
Eureka Fire Hose Co., 13 Barclay, New York
Works, Jersey City, N. J.

Goodrich, B. F. Co., Akron, O.
Goodyear Tire & Rubber Co., Akron, O.
Gutta Percha Rubber Mfg. Co., 126 Duane, New York
Hamilton Rubber Co., Trenton, N. J.
Hartford Rubber Works, Hartford, Conn., & 33 Michigan av., Chicago, Ill.
Home Rubber Co., Trenton, N. J.
Lake Shore Rubber Co., Erie, Pa.
Manhattan Rubber Mfg. Co., 18 Vesey, N. Y., & Passaic, N. J.

Mechanical Rubber Co., 91 Chambers st, New York

Mineralized Rubber Co., 18 Cliff, N. Y.
Morgan & Wright (Inc.), 226 Jefferson av., Detroit, Mich.

National India Rubber Co., Bristol, R. I. & 42 B'way, New York

New Jersey Car Spring & Rubber Co., Jersey City, N. J.

New York Belting & Packing Co (Ltd.), 91 Chambers, New York

New York Rubber Co., 84 Reade, N. Y.
Peerless Rubber Mfg. Co., 16 Warren, N. Y.
Penna. Rubber Co., Jeanette, Pa.
Quaker City Rubber Co. (Chas. A. Daniel, Prop.), 629 Market, Phila., Pa.

Revere Rubber Co., 77 Bedford, Boston, Mass.
Rubber Products Co., Barberton, O.
Seward Rubber Co., Berlin, Conn.
Spinney-Wise Co., Lynn, Mass.

Stokes, Jos. Rubber Co., Trenton, N. J.
Trenton Rubber Mfg. Co., Trenton, N. J.
United & Globe Rubber Mfg. Co., Trenton, N. J.
Voorhees Rubber Mfg. Co., Jersey City, N. J.
Whitehead Bros. Rubber Co., Trenton, N. J.
Waterbury Rubber Mfg. Co., 75 Warren, New York

Rubber Packers & Rings

Goodrich, B. F. Co. (For Oil & Gas Wells), Akron, O.

Rubber Packing

(See Packing)

Rubber (Reclaimed)

Alkali Rubber Co., Akron, O.

Rubber Rods, Sheets & Tubing

Diamond Rubber Co., Akron, Ohio.
Morgan & Wright (Inc.) (Rods & Tubing), 226 Jefferson av., Detroit, Mich.

Rubber & Enamel Carriage Cloth

Consolidated Rubber Co., Trenton, N. J.
Empire Rubber Mfg. Co. (Rubber), Trenton, N. J., & 60 Reade, New York

Rubbers (Fruit Jar)

Acme Rubber Mfg. Co., Trenton, N. J.
Boston Woven Hose & Rubber Co., Executive Office & Factory, Cambridgeport, Mass.
Cincinnati Rubber Mfg. Co., Cincinnati, O.
Cleveland Rubber Co., Cleveland, O.
Consolidated Rubber Co., Trenton, N. J.
Continental Rubber Works, Erie, Pa.
Empire Rubber Mfg. Co. (Rubbers), Trenton, N. J., & 60 Reade, New York
Goodrich, B. F. Co., Akron, O.
Gutta Percha & Rubber Mfg. Co., 126 Duane, New York

Lake Shore Rubber Co., Erie, Pa.
Manhattan Rubber Co., 18 Vesey, New York
New York Belting & Packing Co., 91 Chambers, New York

Republic Rubber Co., Youngstown, O.
Rubber Products Co., Barberton, O.

Rubbers (Window Cleaner)

Goodrich, B. F. Co., Akron, O.

Rubbing Beds (Stone, Slate, Etc.)

Birmingham Iron Foundry (for Marble, Stone, Slate, Brick & Terra Cotta, Derby, Conn.)
FLORY, S. MFG. CO. (With Adjustable Step Box), Bangor, Me. (See adv. index, end of book)
Hinds, Thos., Malone, N. Y.
Lehigh Foundry Co., Fullerton, Pa.
Lincoln Iron Works, Rutland, Vt.
NEW ALBANY MFG. CO., New Albany, Ind.
Patch, F. R. Mfg. Co., Rutland, Vt.

***Rubbing Bricks, Sticks, Etc.**

NORTON CO., Worcester, Mass. (See adv. index & branch offices, end of book)

Rulers (Advertising, Wood)

Westcott-Jewell Co., Seneca Falls, N. Y.

Rulers (School & Desk)

Westcott-Jewell Co., Seneca Falls, N. Y.

Rules

(Under this heading see sub-classifications.)

Athol Machine Co. ("Standard" Steel), Athol, Mass.

Belcher Bros Co., 31 Spruce, New York. Factory, Irvington, N. J.

Brown & Sharpe Mfg. Co., Providence, R. I.
Chapin-Stephens Co. (Box Wood, Ivory, Combination, Slope Level, Try Square & Miscellaneous, etc.), Pine Meadow, Conn.

DIETZGEN, EUGENE CO. (for Draughting Room), 181 Monroe, Chicago, Ill. See adv. index & branch offices, end of book

Disston, Henry & Sons (Inc.), Tacony, Phila., Pa., & 75 W Wash'n, Chicago, Ill.

EDDY, GEO. & CO. (for Surveyors, etc.), 345 Classon av., Brooklyn, N. Y. (See adv. index, end of book)

Keuffel & Esser Co., 127 Fulton, New York

Lufkin Rule Co., Saginaw, Mich.

Massachusetts Tool Co. (Tempered Steel), Greenfield, Mass.

Peck, Stow & Wilcox Co., Southington, Conn.

Russell & Erwin Mfg. Co., New Britain, Conn., & 43 Chambers, New York

Sawyer Tool Mfg. Co., Fitchburg, Mass.

Smith, S. O. (Counting Houses, etc.), Newark, N. J.

SOLTMANN, E. G.

(Architects' & Engineers' Slide; also Everything for the Architect, Engineer & Draughting Room), 125 E 42d, New York. (See adv. index, end of book)

Stanley Rule & Level Co., New Britain, Conn.
Starrett, L. S. Co., Athol, Mass.
Union Nut & Bolt Co. (Boxwood), Unionville, Conn.
Upson Nut Co., Unionville, Conn., & Cleveland, O.

Rules (Caliper)

(See also Callipers.)

Belcher Bros. Co., 31 Spruce, New York. Factory, Irvington, N. J.

Brown & Sharpe Mfg. Co., Providence, R. I.
Chapin-Stephens Co. (Boxwood), Pine Meadow, Conn.

Humphrey Machine Co., Keene, N. H.

SOLTMANN, E. G. (also Everything for the Architect, Engineer & Draughting Room), 125 E 42d, New York. (See adv. index, end of book)

Starrett, L. S. Co., Athol, Mass.

Stanley Rule & Level Co. (Boxwood, Ivory, etc.), New Britain, Conn.

Starrett, L. P. Co. (Slide, etc.), Athol, Mass.

Upson Nut Co., Unionville, Conn., & Cleveland, O.

Rules (Extension)

HAMMACHER, SCHLEMMER & CO., 133 4th av., New York. (See adv. index, end of book)

Keuffel & Esser Co., 127 Fulton, New York

Stanley Rule & Level Co., New Britain, Conn.

Rules (Key Seat)

Brown & Sharpe Mfg. Co., Providence, R. I.
HAMMACHER, SCHLEMMER & CO., 133 4th av., New York. (See adv. index, end of book)

Starrett, L. S. Co., Athol, Mass.

Rules (Lumberman's)

Chapin-Stephens Co. (Log Sticks, etc.), Pine Meadow, Conn.

HAMMACHER, SCHLEMMER & CO., 133 4th av., New York. (See adv. index, end of book)

Lufkin Rule Co., Saginaw, Mich.

Smith, S. O. (Wood), Newark, N. J.

Stanley Rule & Level Co., New Britain, Conn.

Upson Nut Co., Unionville, Conn., & Cleveland, O.

Rules (Machine, Divided Steel)

Lufkin Rule Co., Saginaw, Mich.

Rules (Machinists')

Athol Machine Co., Athol, Mass.

Brown & Sharpe Mfg. Co., Providence, R. I.
Coffin & Leighton, Syracuse, N. Y.

Disston, Henry & Sons (Inc.), Tacony, Phila., Pa., & 75 W Wash'n, Chicago, Ill.

HAMMACHER, SCHLEMMER & CO., 133 4th av., New York. (See adv. index, end of book)

Lufkin Rule Co., Saginaw, Mich.

Starrett, L. S. Co., Athol, Mass.

Wyke, John & Co. (Steel), 898 Saratoga, E. B., Boston, Mass.

Rules (Pocket)

Starrett, L. S. Co. (Steel Folding), Athol, Mass.

Rules (Scale & Shrinkage)

Belcher Bros. Co., 31 Spruce, New York. Factory, Irvington, N. J.

Brown & Sharpe Mfg. Co., Providence, R. I.

Keuffel & Esser Co., 127 Fulton, New York

Starrett, L. S. Co., Athol, Mass.

SOLTMANN, E. G. (for Metal & Terra Cotta; also Everything for the Architect, Engineer & Draughting Room), 125 E 42d, New York. (See adv. index, end of book)

Rules (Steel)

Brown & Sharpe Mfg. Co., Providence, R. I.

Disston, Henry & Sons (Inc.), Tacony, Phila., Pa., & 75 W Wash'n, Chicago, Ill.

HAMMACHER, SCHLEMMER & CO., 133 4th av., New York. (See adv. index, end of book)

Kenfelf & Esser Co., 127 Fulton, New York
Lufkin Rule Co., Saginaw, Mich.
Massachusetts Tool Co., Greenfield, Mass.
Nichols Mfg. Co. (Framing), Ottumwa, Ia.
Peck, Stow & Wilson Co., Southington, Conn.
Sawyer Tool Mfg. Co., Fitchburg, Mass.
Smith, Ernst G. Co. ("Columbia," 6 inch),
Columbia, Pa.
Starrett, L. S. Co., Athol, Mass.

Rules (Steel, Metric)

Brown & Sharpe Mfg. Co., Providence, R. I.
Lufkin Rule Co., Saginaw, Mich.
Sawyer Tool Mfg. Co., Fitchburg, Mass.
Stanley Rule & Level Co., New Britain, Conn.

Rules (Tinnners')

Lufkin Rule Co., Saginaw, Mich.
Peck, Stow & Wilcox Co., Southington, Conn.
Russell & Erwin Mfg. Co., New Britain,
Conn., & 43 Chambers, N. Y.

Rust Preventives

Houghton, E. F. & Co. ("Cosmic" & White
Slushing Oil), 240 W Somerset, Phila., Pa.
Melville, F. L. ("Melville's Standard"), 192
Front, New York

Rustic Woodwork

Pierce, W. E. & Co., Milford, N. H.
Van Gorden, D. P., Orange, N. J.

Rustic Work (Terra Cotta)

Cincinnati Sewer Pipe Co., c Elm & Water,
Cincinnati, O.
Streator Clay Mfg. Co., Streator, Ill.

Saccharometers

Phila. Thermometer Co., Arch & 9th, Phila-
delphia, Pa.
SCHAEFFER & BUDENBERG MFG. CO.
("Kaiser's" Silver), Foxboro, Mass. (See
adv. index, end of book)

Sacks (Paper, Cement & Flour)

Phillips, Thos. Co., Akron, O.

Sad Irons

Barr, W. J. Electric Mfg. Co. (Eureka" Elec-
tric), Cleveland, Ohio
Blacklock Foundry Co., So. Pittsburg, Tenn.
Bless & Drake ("Potts" Cold-Handle, Self-
Heating Charcoal, etc.), Newark, N. J.
Chaifant Mfg. Co., Lancaster, Pa.
Chattanooga Implement & Mfg. Co. ("Mrs.
Potts" & Common), East Chattanooga,
Tenn.

Colebrookdale Iron Co., Pottstown, Pa.
Dover Mfg. Co. ("Par Excellence," Asbestos),
Canal Dover, O.
Enterprise Mfg. Co. ("Enterprise"), 3d &
Dauphin, Phila., Pa.
Genessee Valley Mfg. Co., Mt. Morris, N. Y.
Griswold Mfg. Co., Erie, Pa.
Howell, W. H. Co., Batavia, Ill.
Illinois Iron & Bolt Co., Carpentersville, Ill.
Mudd Mfg. Co., Hanson Pk, Chicago, Ill.
Ober Mfg. Co., Chagrin Falls, O.
Pease Mfg. Co., Cincinnati, O.
Pleuger & Henger Mfg. Co. ("Potts" & Com-
mon), 11th & Hebert, St. Louis, Mo.
Richmond Foundry & Mfg. Co. ("Potts,"
"Taylor" & Common), 52 1st, San Francis-
co, Cal.

Sandage Steel Swein Co., South Bend, Ind.
Schreiber & Conchar Mfg. Co., Dubuque, Ia.
Simplex Electric Heating Co. (Electric), Cam-
bridge, Mass.
Streeter, N. R. & Co. ("Sensible"), Rochester,
Union Mfg. Co., Boyertown, Pa. N. Y.
United Steel Co., Canton, O.
Williams, A. C. Co., Ravenna, O.
Wrightsville Hardware Co. (Cold Handles,
"Mrs. Bent's Improved Ladies' Pride"),
Wrightsville, Pa.

Saddles (Bicycle)

Graton & Knight Mfg. Co. (Leather), Wor-
cester, Mass.
Persons Mfg. Co., Worcester, Mass.

Saddles (Car Roof, for Running Board)

Dayton Malleable Iron Co., (Malleable Iron),
Dayton, O.

Saddles (Pipe)

Dayton Pipe Coupling Co., Dayton, O.
Kelly & Jones Co., 135 Water, Pittsburg, Pa.
Western Tube Co., Kewanee, Ill.

Safes (Express Car)

HALL'S SAFE CO., Main Office &
Works, Spring Grove av., Cincinnati, O.
(See adv. index, end of book)
Herring-Hall-Marvin Safe Co., 400 B'way, New
York. Works, Hamilton, O.

Safes (Fire & Burglar Proof)

(For All Other Safe Mfrs. See Bank Vaults.)

Alpine Safe & Lock Co., Cincinnati, Ohio
American Safe & Lock Co., 23 Spring, New
Atlas Mfg. Co., Fostoria, O. York
Barnes, R. L. Safe & Lock Co., Richmond, Va.
Barnes Safe & Lock Co., 325 3d av, Pittsburg,
Pa.

Baum, J. Safe & Lock Co., Cincinnati, O.
Cary Safe Co., Buffalo, N. Y.
Diebold Safe & Lock Co., Canton, O., & 30
Reade, New York

HALL'S SAFE CO., Main Office &
Works, Spring Grove av, Cincinnati, O.
(See adv. index, end of book)

Herring-Hall-Marvin Safe Co., 400 B'way, New
York, and Hamilton, O

Macneale & Urban Co., Hamilton, Ohio
Manganese Steel Safe Co., 253 Bway, New York
Meilink Mfg. Co. (Home Deposit Vaults), To-
ledo, O.

Miller, L. H. Safe & Iron Works, Baltimore,
Md.

Morris-Ireland Safe Co., 64 Sudbury, Boston,
Mass.

Mosler Safe Co. Main Office & Works, Ham-
ilton, O.
Naeher Safe & Lock Co., Cincinnati, Ohio
National Safe & Lock Co., 13 Craw av, Cleve-
land, O.

Norris Safe & Lock Co., 1322 2d av, Seattle,
Wash.

Remington & Sherman Co., 359 B'way, New
York
Stiffel & Freeman, 723 Chestnut, Phila, Pa
Victor Safe & Lock Co., 320 E 8th, Cincinnati,
Ohio

Waltz Safe & Lock Co., San Francisco, Cal.
York Safe & Lock Co., York, Pa.

*Safes (House)

HALL'S SAFE CO., Spring Grove av, Cin-
cinnati, O. (See adv. index, end of book)

Safes (Receiving)

(For Street Railway Conductors' Trip Returns.)

HALL'S SAFE CO., Spring Grove av, Cin-
cinnati, O. (See adv. index, end of book)
Littleford Bros., 453 E Pearl, Cincinnati, O.

Safety Deposit Boxes

HALL'S SAFE CO., Main Office and Works,
Spring Grove av, Cincinnati, O. (See adv.
index, end of book)

Herring-Hall-Marvin Safe Co., 400 B'way, New
York, and Hamilton, O.

Mosler Safe Co., Canton, O.
National Safe & Lock Co., 13 Craw av, Cleve-
land, O.

York Safe and Lock Co., York, Pa.

Safety Water Columns

(See Water Columns, Safety.)

Sails (Yacht)

Baker, H. H. & Co., 18 Terrace, Buffalo, N. Y.
CARPENTER, GEO. B. & CO., 202 S Water
Chicago, Ill. (See adv. index, end of
book)

Chandler, F. & Son, Savannah, Ga.
Cousens & Pratt, 410 Atlantic av, Boston.
Folsom, F. W. & Co., 2 Planet, Providence,
R. I.

Goss, J. C. Co., 18 Woodward av, Detroit,
Mich.

Hemingway, S. & Son, 54 South, New York
Herreshoff Mfg. Co., Bristol, R. I.
Jones & Robinson, 83 Front, New York
Pease, L. F. & Co., 7 Crawford, Providence,
R. I.

Upson-Walton Co., 155 River, Cleveland, O.
McClellan, Chas. P., Fall River, Miss.
Wilson & Griffin, 78 South, New York
Wilson & Silsby, Rowe's Wharf, Boston, Mass.
Wilson, R. M., Port Jefferson (L. I.), N. Y.

Salamanders

Carlin's, Thomas Sons Co., 1300 River, Al-
legheny, Pa.
Durlach, I. ("Mason's"), 54 Vesey, New York
Eagle Iron Works, 850 DeKalb av, Brooklyn,
N. Y.

Keller, A. E. (Masons'), 136 Beekman, New
York

Littleford Bros., 453 E Pearl, Cincinnati, O.
Union Elevator & Machine Co., 144 Ontario,
New York

WILSON, F. CORTEZ & CO., 239 Lake, Chi-
cago. (See adv. index, end of book)

Salamandorite

Johns, H. W.-Manville Co. (A New Fireproof
Paneling for Interior Decorative Work), 100
William, New York

Sal-Ammoniacs

Allen, L. B. Co. (Battery & Commercial
Brands), 1335 Columbia av, Chicago, Ill.

Barrett Mfg. Co., Land Title bldg. Phila, Pa.
Grasselli Chemical Co., Cleveland, O., & 63
Wall, New York

Roessler & Hasslacher Chemical Co., 100 Wil-
liam, New York

Tennant & Sons Co. (Importers), 76 William,
New York

Salasee

Salasee Fibre Co., 150 W 35th, New York

Salt Well Machinery

(See Machinery, Salt Well)

Salts (Chemical)

Baker & Adamson Chemical Co. ("C. P."),
Easton, Pa.

Samplers (Ore)

Denver Engineering Works Co., Blake & 30th,
Denver, Col.

Taylor Engineering Co., 114 Liberty, New
York

Sand Blast Machines

(See Machines, Sand Blast)

Sand Boxes

(See Boxes, Sand)

*Sand Excavating & Screening Plans (Portable)

JEFFREY MFG. CO., Columbus, O.
(See adv. index & branch offices, end of book)

Sand (Glass Makers')

Bldwell, R. O., South Vineland, N. J.
Brenan, J. T., Robinson, Md.
Crystal Sand Co., Bridgeton, N. J.
Glass Sand Co., Emlenton, Pa.
Kentucky Silica Co., Louisville, Ky.
Pennsylvania Glass Sand Co., 341 4th av, Pitts-
burg, Pa.

Reynolds, E. J. & Co., Utica, Ill.
Severn River Glass Sand Co., Girard bldg,
Phila., Pa.

Vineland Glass Sand Co., Bridgeton, N. J.
Winfield Sand Co., 421 Wood, Pittsburg, Pa.

Sand Handling Plants

Heyl & Patterson, 51 Water, Pittsburg, Pa.
Interstate Engineering Co., Bedford, O.

Sand-Lime Brick Plants Equipped

American Sand-Lime Brick Co., 225 Dearborn, Chicago
Schwarz-System Brick Co., 8 Bridge, New York

Sand Mixer & Screen (Combined)

Standard Sand & Machine Co., 1509 St. Clair, Cleveland, O.

Sand Molding Machines

(See Machines, Sand Molding.)

Sand (Moulding or Foundry)

(See also Foundry Facings & Supplies.)

American Sand Co., Columbus, O.
Bidwell, R. O., South Vineland, N. J.
Bloomfield Clay Co., Metuchen, N. J.
Buckeye Sand Co., Pittsburg, Pa.
Evers, Jno., Waterford, N. Y.
Garden City Sand Co., Security bldg., Chicago, Ill.
Gordon, F. E., Conneaut, O.
Haedrick, E. M. (also Gravel & Clay), Mariner
Interstate Sand Co., Cleveland, Ohio.
Kentucky Silica Co., Louisville, Ky.
Lake Shore Sand Co., 138 Wash'n, Chicago, Ill.
& Merchants' bldg, Phila., Pa.
Mont Alto Sand Co., Waynesboro, Pa.
Newport Sand Bank Co., Newport, Ky.
New York Sand Facing Co., 610 Kent av, Brooklyn, N. Y.
Obermayer, S. Co., 647 Evans, Cincinnati, O.
(See adv. index, end of book)
OSBORN MFG. CO., 5401 Hamilton av, N. E., Cleveland, O. (See adv. index, end of book)
Paxson, J. W. Co., 1021 N Delaware av, Phila., Pa.
Preston, D. H. & Co., 4 W Harrison, Chicago
Rapp, A. P. Co., Phillipsburg, N. J.
SMITH, J. D. FOUNDRY SUPPLY CO., 1581 Columbus rd, N W, Cleveland, O. (See adv. index, end of book)
STANDARD SAND & MACHINE CO., 5151 St. Clair, Cleveland, O. (See adv. index, end of book)
Valentine, H. D. & Bro. (Core Sand), Wood bridge, N. J.
Waldo Bros., 102 Milk, Boston
Webster Foundry Sand Co., 961 N Del. av, Phila., Pa.
Whitehead Bros. Co., 537 W 27th, N. Y.

Sand Paper Mfrs.

American Glue Co. ("Union," Flint, etc.), 121 Beverly av, Boston, Mass.
Baeder, Adamson & Co., 730 Market, Phila.
Barton, H. H. & Son Co. (Inc.), 222 Market, Philadelphia, Pa.
Behr, Herman & Co., 75 Beekman, N. Y.
Boston Flint Paper Co., Hallowell, Me.
Coryell Flint Paper Co., Williamsport, Pa.
Union Sand Paper Co., Walpole, Mass.
Waddell, R. J. & Co., 52 Beekman, N. Y.
Wausau Sandpaper Co., Wausau, Wis.

Sand Papering Machines

(See Machines, Sand Papering.)

Sand Rammers

(See Rammers, Foundry; also Rammers, Pneumatic)

Sand Sifters

Battle Creek Interior Finish Co. (Ltd.), ("Battle Creek"), Battle Creek, Mich.
Brass Founders Supply Co. (For Brass Fdr.), Newark, N. J.
CHICAGO PNEUMATIC TOOL CO. ("Chicago"), Fisher bldg, Chicago, Ill. (See index adv. & branch offices, end of book)
DODGE MFG. CO., Mishawaka, Ind. (See adv. index & branch offices, end of book)
Gould & Eberhardt (Automatic for Foundries), Newark, N. J.
Horton Mfg. Co., Painesville, O.
NORTHERN ENGINEERING WKS., Detroit, Mich. (See adv. index, end of book)
Obermeyer, S. Co., 647 Evans, Cincinnati, O.
WHITING FOUNDRY EQUIPMENT Co. (Rotary, etc.), Harvey, Ill. (See adv. index & branch offices, end of book)

Sand (Silica)

Ballou's White Sand Co., Millington, Ill.
Bean, Francis M. (for Furnaces, etc.), Valley Forge, Pa.
Doggett, Stanley, 101 Beekman, New York
Garden City Sand Co. (also White), Security bldg, Chicago, Ill.
Haedrich, E. M., 311 Walnut, Phila., Pa.
Kentucky Silica Co., Louisville, Ky.
Ligonier Silica Brick Co., Oakmont, Pa.
Ottawa Silica Co. (Washed White Flint Sand), Ottawa, Ill.
Pennsylvania Glass Sand Co. (White Rock), 341 4th av, Pittsburg, Pa.
Temple Sand Co., Reading, Pa.
U. S. Silica Co., The Rookery, Chicago, Ill., & Ottawa, Ill.
Valley Hill Sand Co., Malvern, Pa.
Warner, Chas. Co., Wilmington, Del., & Land Title bldg., Phila., Pa.
Winfield Sand Co., 421 Wood, Pittsburg, Pa.

*Sand Washers

RANSOME CONCRETE MACHINERY CO., Dunellen, N. J. (See adv. index, end of book)

Sand & Gravel Dealers

American Sand & Gravel Co., 92 La Salle, Chicago, Ill.
Antrim Sand Co. (Sand), Wellsboro, Pa.
Banner Coal & Sand Co., 4560 Audubon av, St. Louis, Mo.
Bean, Francis C. (Fire), Valley Forge, Pa.
Bedford & Nugent, Evansville, Ind.
Berkley Sand Co., Berkley Springs, W. Va.
Bidwell, R. O. (Glass, Furnace, Kiln Dried & Placing Sand & Gravel), South Vineland, N. J.
Bos, John N., 473 Chrystal, Chicago, Ill.
Brennan Gravel & Supply Co., 172 Washington, Chicago, Ill.
Brooks, Wm. Son Co., 615 W 49th, N. Y.
Brown & Fleming Contracting Co., 129 Broad, New York
Builders' Sand Co., Kansas City, Mo.
Campbell, Bernard & Co., 268 W 34th, N. Y.
Clarke, Wm. Wirt & Sons, 115 S Gay, Baltimore, Md.
Chicago Gravel Co., 279 Dearborn, Chicago, Ill.
Clarke, Wm. Wirt & Son, Monument and Forest, Baltimore, Md.
Connellsville White Sand Co., Connellsville, Pa.
Colorado Sand & Gravel Co., Stock Ex. bldg, Cusick & Ryan, 536 W 49th St. Louis, Mo.
Davis, John A., 60 Mt. Washington av, Boston, Mass.
De Frain Sand Co., Otis Wharf, Phila., Pa.
DeGrott, Jas. J. A., Jonespoint, N. Y.
Detwiler Sand Co. (Dealers), York, Pa.
Enterprise Sand & Gravel Co., Quincy, Ill.
Everhard Co., Massillon, Ohio
Flanagan Bros., Kansas City, Mo.
Fox & Holloway, 252 Pearl, Buffalo, N. Y.
Fox River Sand Co. (Sand), Welden, Ill.
Gallagher, John, ft of E 38th, N. Y.
Garden City Sand Co., Security bldg, Chicago, Ill.
Geneva Lake Gravel & Sand Co., 188 Madison, Chicago, Ill.
Godfrey, N. W., Port Eaton, N. Y.
Goodwin Bros., 17 Battery pl, New York
Haedrich, E. M., 311 Walnut, Phila., Pa.
Halliday, H. H. Sand & Gravel Co., Calro, Ill.
Hatfield & Phillips, Alexandria, Pa.
Homegardner Sand Co., Sandusky O.
Indiana Gravel Co., Attica, Ind.
Ingram, W. T., Jeffersonville, Ind.
Iron City Sand Co., Westinghouse bldg, Pittsburg, Pa.
Keating, J. L. & Co., 236 E. 35th, New York
King, J. B. & Co., 1 B'way, N. Y.
Lake County Gravel Co., 4 Sherman, Chicago, Ill.
Lake Erie Sand Co., Sandusky, O.
Lake Shore Sand Co., 138 Wash'n, Chicago, Ill.
Long Island Sand Co., 78 Wall, N. Y.
Manasquan Granite Co., Asbury Park, N. J.
Metropolitan Sand Co., Kansas City, Mo.
Milligan, Jas., 1267 B'way, N. Y.
Millington White Sand Co., Millington, Ill., & Cleveland, O.
Mont Alto Sand Co., Waynesboro, Pa.
Mound City Gravel, Material & Contracting Co., Holland bldg, St. Louis, Mo.
Murray & Co. (Rockaway), 263 Av C, New York
Murray & Reid Co., 17 State, New York
N. Y. Sand & Gravel Co., 519 E 80th, New York

O'Brien Bros. (Gravel), 54 South, New York
Ohio Dredging Co. (Sand, Pea Gravel and Crushed Stone), Columbus, O.
Ohio River Sand Co., Louisville, Ky.
Peoples Bros. (Bar, White & Washed), 2508 Callowhill, Philadelphia, Pa.
Perth Amboy Fire Brick Co. (Building Sand), 42 Bway, New York, & Perth Amboy, N. J.
Pfafflin, August Gravel Co. (Gravel Pit), Evansville, Ind.
Phoenix Towing & Transportation Co., 17 State, New York
Plerson, Dudley (Sand), 135 Rice, Springfield, O.
Pioneer Sand Co. (River Sand, etc.), St. Joseph, Mo.
Potomac White Sand Co., Green Springs, W. Va.
Purdy, A. F. & Co. (Glass Sand), Bernhards Bay, N. Y.
Quaker City Mortar Co., 50 N. 23d, Philadelphia, Pa.
Quincy Sand Co., Quincy, Ill.
Reynolds, E. J. & Co. (Building Sand), Utica, Ill.
Richards & Goddard (Filter Sand), Holyoke, Mass.
Richardson Sand Co., 138 Wash'n, Chicago
Rock Island Sand Co., Rock Island, Ill.
Rodgers Sand Co., 321 Water, Pittsburg, Pa.
Schmidt, C. August, 1539 La Fayette Parkway, Chicago, Ill.
Sherman & Martin, Lowell, Mass.
Shoemaker, Reed & Co., Greensburg, Pa.
Smith, Clarence Co., 444 W. 30th, New York
Squeler, Ed. E. & Co., 406 N 6th, St. Louis, Mo.
Standard Sand Co., Altoona, Pa.
Standard Sand & Machine Co., 1509 St. Clair, Cleveland, O.
Stewart-Peck Sand Co., Kansas City, Mo.
Tecumseh Gravel Co., Tecumseh, Mich.
Thomas, Hugh Co., 340 E 64th, New York
Valley Hill Sand Co., Malvern, Pa.
Vanderbilt, Jacob, 7th St. Dock, Hoboken, N. J.
Webster Foundry Sand Co., 961 N Delaware av, Phila., Pa.
Whitehead Bros. Co., 537 W 27th, N. Y.
White River Sand & Gravel Co., Indianapolis, Ind.
White Star Gravel Co., Northport, N. Y.
Winfield Sand Co., 421 Wood, Pittsburg, Pa.
Yowler, C. D., Connellsville, Pa.

Sand & Gravel Heaters & Dryers

AMERICAN PROCESS CO. (Street Railway), 64 William, New York. (See adv. index, end of book)
Cummer, F. D. & Son Co., The Arcade, Cleveland, O.
Handlan-Buch Mfg. Co. ("Champion"), 212 N 3rd, St. Louis, Mo.
Horton Mfg. Co. (Sand Dryers), Painesville, O.
Iroquois Iron Works, Buffalo, N. Y.
Littleford Bros., Cincinnati, O.
Parkhurst & Wilkinson Co. ("Clark" & "Perfection"), 143 Kinzie, Chicago, Ill.
Pioneer Iron Works, 149 Pioneer, Brooklyn, N. Y.
Pollock, Alex. Co., 203 West, New York
RUGGLES-COLES ENGINEERING CO. (Dryers), 39 Cortlandt, New York. (See adv. index, end of book)
SCHOLL, JULIAN & CO., 126 Liberty, New York. (See adv. index and branch offices, end of book)
STANDARD SAND & MACHINE CO., 5151 St. Clair, Cleveland, O. (See adv. index, end of book)
Stuebner, G. L., Long Island City, N. Y.
Turi's, Jno. Sons (Inc.), 26 Cortlandt, New York.
UNITED STATES DRYING ENGINEERING Co., 66 Beaver, New York. (See adv. index, end of book)
Wellington Machine Co., Wellington, O.

Sanders (Moulding)

(See Molding Sander Machines.)

Sanders (Track)

(See Locomotive Sanders.)

*Sanitary Sweepers (Vacuum)

GENERAL COMPRESSED AIR AND Vacuum Machinery Co., 4469 Olive, St. Louis, Mo. (See adv. index, end of book)
VACUUM CLEANER CO., 427 5th av, New York

Sash Balance Mfrs.

Buettner Sash Lock Co., 1550 Pleasant, Cincinnati, O.
 Caldwell Mfg. Co., 8 Jones, Rochester, N. Y.
 Coleman Hardware Co. (The Shumard), 168 Michigan av., Chicago
 Edwards, O. M. Co. (Railroad Car Only), Syracuse, N. Y.
 Gardner Sash Balance Co., 164 Dearborn, Chicago
 International Lock Co. (The Lorix), Blackstone, New Eddy, Providence, R. I.
 National Lock Washer Co., 65 Johnson, Newark, Pullman Mfg. Co., Rochester, N. Y.
 Radel Sash Balance & Lock Co. ("Radel" Sash Balance & Lock), 738 State av, Cincinnati, O.
 Rochester Sash Lock Co., Rochester, N. Y.
 Schriber, O. P. & Co. ("I X L"), 208 Elm, Cincinnati, O.
 Stearns, E. C. & Co., 100 Oneida, Syracuse, N. Y.

Sash Bars (Metallic)

(See Metallic Sash Bars.)

***Sash Bars (Steel)**

BRAUN, J. G. (Plain & Ornamental), 322 S Paulina, Chicago, Ill., & 537 W 35th, New York, N. Y. (See adv. index, end of book)

Sash Bolt & Support

Smith & Egge Mfg. Co. (Kings), Bridgeport, Conn.

Sash Bolts (Ventilating)

Gardner Sash Balance Co., 164 Dearborn, Chicago, Ill.

Sash Cord Mfrs.

Anniston Cordage Co. (Braided), Anniston, Ala.
 Bailey, John T. & Co., c Water & Morris, Phila., Pa.
 CARPENTER, GEORGE B. & CO. (Anniston Braided Cotton), 202 S Water, Chicago, Ill. (See adv. index, end of book)
 Charlotte Cordage Co. (Braided), Charlotte, N. C.
 Draper, W. H. & Son (Twisted Cotton), Troy, Estes Mills (Inc.), Fall River, Mass.
 Faber, Thos. & Son, Weston, Mass.
 Franklin Cotton Mill Co., Charles & Plum, Cincinnati, O.
 Hoffman-Corr Mfg. Co., 107 Duane, New York
 Hooven & Allison Co., Xenia, O.
 Jacobs Cordage Co., Harriet & Budd, Cincinnati, O.
 Mailson Braided Cord Co., Athens, Ga.
 Ossawan Mills Co., Norwich, Conn.
 Paton, Wm. (Ltd.), North Grafton, Mass.
 Robbing, O. A. Co. (Braided), Charlotte, N. C.
 SAMSON CORDAGE WORKS (Braided, etc.), 88 Broad, Boston, Mass. (See adv. below)
 SILVER LAKE CO. (Braided, etc.), 78 Chauncy, Boston, Mass. (See adv. below)
 Townsend, Isaac, 1217 Filbert, Phila., Pa.

Travers Bros. Co., 41 Worth, New York
 Trenton Iron Co. (Tinned & Coppered Steel Wire). Trenton, N. J., and 17 Burling Slip, New York
 Tucker & Carter Rope Co. (Braided Cotton). 76 South, New York, & New London, Wall Rope Works, 56 South, N. Y.
 Ware, Bruce R. & Co., 103 Bedford, Boston, Mass.
 Whittier-Mills Co., Chattahooche, Ga.

Sash Cord Mfrs. (Steel Wire)

AMERICAN STEEL & WIRE CO. (Tinned & Coppered), The Rookery, Chicago. (See adv. index & branch offices, end of book)
 National Wire Corporation (Annealed, Bright Tinned or Galvanized), New Haven, Conn.
 Tucker & Carter Rope Co., 76 South, New York, Factory, New London, N. C.
 WRIGHT WIRE CO., Worcester, Mass. (See adv. index & branch offices, end of book)

Sash (Greenhouse & Hot Bed)

Hyde-Murphy Co., Rldgway, Pa.
 Jacob, S. & Sons, 1365 Flushing av., Brooklyn, Lochland Lumber Co., Lochland, O.
 Lord & Burnham Co., 1133 B'way, New York
 Selden Cypress Door Co., Palatka, Fla.
 Smith, Jos. M. Co., Madison, N. J.
 STEARNS, A. T. LUMBER CO., Neponset, Boston, Mass. (See adv. index, end of book)
 Woodbury Mill Lumber Co., Woodbury, N. J.

Sash Hangers (Storm)

Phenix Mfg. Co. ("Phenix"), Humboldt av., cor Centre, Milwaukee, Wis.
 Schroeder, Anton ("Peerless"), 888 Dayton av, St. Paul, Minn.
 STANLEY WKS. ("Schroeder-Peerless," Hanger & Fastener), New Britain, Conn. (See adv. index and branch offices, end of book)
 Watrons, E. L. Co. (Hanger & Screen Hinge Combined), Des Moines, Iowa.
 Willer Mfg. Co., 313 Cedar, Milwaukee, Wis.
 Winter, R. G. (The Sensible), 327 Nicollet, Minneapolis, Minn.

Sash Holders

Automatic Sash Holder Co., 277 B'way, New York

Sash Lifts

Arcade Mfg. Co., Freeport, Ill.
 Brass Goods Mfg., Nevin & Union, Brooklyn, N. Y.
 Champion Safety Lock Co., Geneva, O.
 Columbian Hardware Company (Columbian), Coe & Hamilton, Cleveland, O., and 168 Church st, New York, N. Y.
 Corbin, P. & F., New Britain, Conn.
 Gaynor & Mitchell Mfg. Co., Bridgeport, Conn.
 Griffin Mfg. Co., Erie, Pa.
 Ives, Hobart B. Co., New Haven, Conn.
 National Novelty Corporation, 826 B'way, New York

Norwalk Lock Co., South Norwalk, Conn.
 Peck, Stow & Wilcox Co., Southington, Conn.
 Penn Hardware Co., Reading, Pa.
 Reading Hardware Co., Reading, Pa.
 Rochester Automatic Oiler & Supply Co. ("Yawman" Sash, Lift & Ventilator), Rochester, N. Y.
 Russell & Erwin Mfg. Co., New Britain, Conn.
 Shelby Spring Hinge Co. (Steel Hook, also Bronze & Brass, Polished), Shelby, O.
 STANLEY WORKS (Wrought Steel & Sweet's Reversible, etc.), New Britain, Conn., & 79 Chambers, New York. (See adv. index, end of book)
 Stover Mfg. Co., Freeport, Ill.
 Taylor & Bogis Foundry Co., 521 Seneca, Cleveland, O.
 U. S. Steel Lock Co., Clinton, Ia.
 Voelkner & Reinke Mfg. Co. (Bar, Flush & Hook, Polished Brass & Japan), 123 W Woodbridge, Detroit, Mich
 Western Brass Mfg. Works, 21st & Rockwell, Chicago, Ill.
 Wrightsville Hdw. Co., Wrightsville, Pa.

Sash Line

(See Sash Cord Mfrs.)

Sash Locks

Brohard Co. (Stamped Steel), 1624 N 9th, Phila., Pa.
 Builders' Supply Corp'n ("Samson" Steel), Indianapolis, Ind.
 Caldwell Mfg. Co., 8 Jones, Rochester, N. Y.
 Champlon Safety Lock Co. ("Champion" Side & "Monitor" "Never Break" Wrought), Geneva, O.
 Chicago Hardware Co., 40 Dearborn, Chicago, Corbin, P. & F., New Britain, Conn.
 Creamer, W. G. & Co. (Railway Car), 96 John, N. Y.
 Fitch, W. & E. T. Co., New Haven, Conn.
 Gardner Sash Balance Co. (Steel), 166 Dearborn, Chicago, Ill.
 Harley Burglar Proof Ventilating Sash Lock Mfg. Co. (Ventilating), 92 La Salle, Chicago
 Hubbard, D. S. Son & Co. ("Hubbard"), Long Island, N. Y.
 Ives, Hobart B. Co., New Haven, Conn.
 Lockwood Mfg. Co., South Norwalk, Conn.
 Memphis Mfg. Co. (Ball Bearing), Memphis, Tenn.
 Michigan Mfg. Co. ("The Veer," Sash & Ventilator), Ypsilanti, Mich.
 Miller Lock Co. (Automatic Ventilating), 219 N 4th, St. Louis, Mo.
 National Lock Washer Co., 65 Johnson, Newark, N. J.
 Payson Mfg. Co., 1319 W Jackson boul., Chicago, Ill.
 Peck, Stow & Wilcox Co., Southington, Conn.
 Pennington, A. W. & Son (Ventilating, Burglar Proof), 34 S Water, Cleveland, O.
 Pullman Mfg. Co., Rochester, N. Y.
 Reading Hardware Co., Reading, Pa.
 Rochester Sash Lock Co. (Automatic Steel for R. R. Coaches), Rochester, N. Y.
 Russell & Erwin Mfg. Co., New Britain, Conn.
 Safety Meter Lock Co., Columbus, O.
 Sargent & Co., 94 Center, N. Y., & New Haven, Conn.

Solid Braided Cord.

ALL SIZES, QUALITIES AND COLOR.



SAMSON SPOT CORD.

Send for Samples and Catalogue.

SAMSON CORDAGE WORKS,**BOSTON, MASS.**

OUR NAME IS STAMPED ON THE CORD.

The SILVER LAKE

SOLID BRAIDED SASH CORD

RECOGNIZED STANDARD SINCE 1868.

SILVER LAKE SASH CORD is made from fine yarn, perfectly braided and smoothly finished by experienced workmen.

The Best is the Cheapest. The Best is What You Want. Send for our Catalogue.

SILVER LAKE CO., -**78 Chauncy St., BOSTON, MASS.**

Saunders Automatic Lock Co. ("Saunders" Cold Rolled Steel), Kansas City, Mo.
Shelby Spring Hinge Co. ("Shelby" Steel & Brass or Bronze, Polished), Shelby, Ohio
Stover Mfg. Co. (Burglar Proof), 165 River, Freeport, Ill.
Taylor & Boggis Foundry Co., Cleveland, O.
WILCOX MFG. CO., Aurora, Ill. (See adv. index, end of book)

Sash Locks (Ventilating)

(See Lock Mfrs., Sash Ventilating)

*Sash Opening Apparatus

DROUVE, G. CO., 40 Tulip, Bridgeport, Conn. (See adv. index, end of book)

Sash Operating Device

American Skylight & Iron Works, 221 Randolph, Jersey City, N. J.
Dearborn Hardware Co. ("Standard," "Ideal," "Reliance" & "Triumph" Roller Bearing), 488 Carroll av., Chicago, Ill.
DROUVE, G. CO., Bridgeport, Conn. (See adv. index, end of book)
Hitchings & Co., 1170 B'way, New York
Lord & Burnham Co., 1133 B'way, New York
Ormsby, E. A., 10 Thacher, Boston, Mass.
THORN, J. S. CO. ("Brand"), 20th & Allegheny av., Phila., Pa. (See adv. index, end of book)
Wolf, A. I., Dayton, O.

Sash Pulley Mfrs

AMERICAN PULLEY CO. ("American" Wrought), 29th & Bristol, Phila., Pa. (See adv. index, end of book)
Austin & Eddy, 117 Broad, Boston, Mass.
Bolles Revolving Sash Co. (Queen), 15 Park Row, New York
Bridgeport Sash Pulley Co., Grand Rapids, Mich.
Clark Mfg. Co., 260 Chandler, Buffalo, N. Y.
Clarkson Mfg. Co. (Ball Bearing), 1521 Lancaster, Baltimore, Md.
Coleman Hardware Co., 168 Michigan av., Chicago, Ill.
Corbin, P. & F., New Britain, Conn.
Enterprise Foundry Co., cor. Nixon & Manhattan, Allegheny, Pa.
Gardner Sash Balance Co. (Ball Bearing), 164 Dearborn, Chicago, Ill.
Grand Rapids Hardware Co. (All Steel), Grand Rapids, Mich.
GRANT PULLEY & HARDWARE CO. ("Grant" Overhead & American Steel), 35 Warren, New York. (See adv. index, end of book)
Indianapolis Sash Pulley & Mfg. Co. ("Madison"), Indianapolis, Ind.
Johnston & Sharp Mfg. Co. ("Ottumwa" Ball Bearing Steel), Ottumwa, Iowa
Kline, D. R. & Co., Allentown, Pa.
Kupferle, Jno. C. (Axle, etc.), St. Louis, Mo.
McDonough & Co., Eau Claire, Wis.
National Novelty Corporation ("L. & S. I. Co."), 826 B'way, New York
Peck, Stow & Wilcox Co., Southington, Conn.
Penn Hardware Co., Reading, Pa.
Pullman Mfg. Co., Rochester, N. Y.
Reading Hdw. Co. (Ball & Roller Bearing), Reading, Pa., & 96 Reade, New York
Russell & Erwin Mfg. Co., New Britain, Conn.; 43 Chambers, New York
Schumacher, Wm., 756 Austin av., Chicago, Ill.
Seidel Mfg. Co. ("Seidel" Noiseless, Chemical bldg, St. Louis, Mo.
Sloan, Frank B. & Co. (The Norris), Baltimore, Md.
Smith & Egge Mfg. Co., Bridgeport, Conn.
Stover Mfg. Co., Freeport, Ill.
Susquehanna Casting Co., Wrightsville, Pa.
Wrightsville Hdw. Co. ("Niagara," "Star," "Acme," "Gem" & "Empire" for Auger Mortises), Wrightsville, Pa.

Sash Pulley Mortiser

(See Pulley Mortising Machines.)

*Sash Pulleys ("Grant" Overhead)

GRANT PULLEY & HARDWARE CO., 35 Warren, New York. (See adv. index, end of book)

Sash Pulleys (Wrought "American")

AMERICAN PULLEY CO., 29th & Bristol, Phila., Pa. (See adv. index, end of book)

*Sash Ribbon

AMERICAN STEEL & WIRE CO., (Steel & Aluminum Bronze), The Rookery, Chicago, Ill. (See adv. index & branch offices, end of book)
Gardner Sash Balance Co. ("Gardner's" Steel), 164 Dearborn, Chicago, Ill.
Pullman Mfg. Co. (Aluminum Bronze), Rochester, N. Y.
Seidel Mfg. Co., Chemical bldg., St. Louis, Mo.

Sash (Storm)

Osgood, Blodgett Mfg. Co., St. Paul, Minn.

Sash Weights

AMERICAN BRAKE SHOE & FOUNDRY CO. (Cast Iron), 170 B'way, New York Works & Sales Office Chicago Heights, Ill. (See adv. index & branch offices, end of book)

Austin & Eddy, 117 Broad, Boston, Mass.
Barber Mfg. Co. (Cast Iron), Ashtabula, O.
Bates, Jas. Sons, Pratt & President, Baltimore, Md.
Best Mfg. Co. ("Walda"), 25th & R. R., Pittsburg, Pa.
Birmingham Boiler Works, Birmingham, Ala.
Blatchford, E. W. Co. (Lead), 70 N Clinton Chicago, Ill.
Brown, E. E. & Co. (Iron), McKeon & Meadow, Phila., Pa.
Burditt & Williams Co., 18 Dock sq, Boston, Mass.
Caldwell, E. R. & Co. (Cast Iron), Bradford, Pa.
CANTON FDRY. & MACHINE CO. (Cast Iron), Canton, O. (See adv. index, end of book)

Chadwick-Boston Lead Co. (Lead), Boston, Mass.
Cheney, S. & Son (Cast), Manlius, N. Y.
Davenport Foundry & Machine Co. (Cast Iron), Davenport, Iowa
Detroit Lead Pipe & Sheet Lead Works (Lead), Detroit, Mich.
Drummond Mfg. Co. (Cast Iron), Louisville, Ky.
Gibson & Price Co. (Lead), 375 St. Clair, Cleveland, O.
Gunther, Harry & Bro., Owensboro, Ky.
Harrell & Eastwood, Ft. Worth, Tex.
Hickok, W. O. Mfg. Co. (Cast Iron), Harrisburg, Pa.
Keagy & Lear Machine Co., Coshocton, O.
King & Andrews Co. (Iron), Chicago Heights, Ill.

Kings County Iron Foundry Co. (Lead, etc.), N 13th & Berry, Brooklyn, N. Y.
Koch & Fox (Lead, etc.), 22d & Glenwood av., Phila., Pa.
Kupferle, Jno. C. (Iron & Lead), St. Louis, Mo.
Levering Bros., 230 Hughes av., Baltimore, Md.
Lewis, Jno. T. & Bros. Co. (Lead), 231 S Front, Phila., Pa.
Lisberger, Marks & Son (Lead), 397 W 12th, N. Y., & 375 Driggs av., Brooklyn, N. Y.
Mesker, Geo. L. & Co. (Cast Iron), Evansville, Ind.

National Lead Co. (Lead), 100 William, New York
Over, Ewald (Round & Square, Iron & Lead), 426 S Penn, Indianapolis, Ind.
Paxton & Verling Iron Works (Iron), 17th & U. P. Ry, Omaha, Neb.
Racine Malleable & Wrought Iron Co., Racine, Wis.
Raymond Lead Co. (Lead), 51 W Lake, Chicago, Ill.

Reading Hardware Co., Reading, Pa.
Robertson, Jas. Mfg. Co. (Lead), Baltimore, Md.
Rochester Lead Works (Lead), 382 Exchange, Rochester, N. Y.
Ross, W. A. & Bro. ("Groove Eye" Elevator, Dumbwaiter, Lead Sash, etc.), 11 S. William, New York
St. Louis Sash & Door Works, Dock & Main, St. Louis, Mo.
Safety Meter Lock Co. (Cast Iron), Columbus, O.
Selby Smelting & Lead Co. (Lead), San Francisco, Cal.
Southern Foundry & Machine Co., Knoxville, Tenn.

Tatham & Bros. (Lead), 84 Beekman, N. Y., & 226 S 5th, Phila., Pa.
Thompson Mfg. Co., Lancaster, N. H.
Union Iron Works, Houston, Tex.
Western Foundry & Sash Weight Co. (Cast Iron), 159 Miller, St. Louis, Mo.
Windsor Mfg. Co. (Lead), 570 Clinton, Milwaukee, Wis.

Sashes, Doors & Blinds

Manufacturers are indicated by a Star (*); Dealers are indicated by a Dagger (†).

ALABAMA

ANNISTON—*Houser, C. J., 431 W 16th
BIRMINGHAM—†Birmingham Paint & Glass Co.
†Brewer, W. P., 1516 1st av
*Halle-Randolph Mfg. Co., 1519 Av E
†Moore & Handley Hardware Co.
†Prowell Hardware Co.
†Reynolds, M. C. Lumber Co.
*Sheppard Lumber Co.
*Standard Mfg. Co.
*Warrior Mfg. Co.
†Wood, Dickerson Lumber Co.
GULMAN—*Arnold, Casper & Son
DECATUR—*Jervis Lumber Co.
ELBA—Perdue & Ham
ENSLEY—*Sheppard Lumber Co.
GADSDEN—†Smith, Echols-Burnett Hardware Co.
*Southern Mfg. Co.
GREENVILLE—†Johnson, J. F. Hardware Co. (Wholesale & Retail)
HUNTSVILLE—*Plummer, G. A.
MOBILE—*Builders' Supply Co.
†Cunningham Hardware Co.
†Partridge, C. S. Hardware Co.
†Price, H. M. & Co.
*Turner, F. C. & Co.
MONTGOMERY—†Alabama Lumber Co.
†Bogacki, C. Y.
†Kennedy Co.
*Montgomery Lumber & Mfg. Co. (Wholesale)

Payne, Willingham & Wood Building Material Co.
†Vesuvius Lumber Co.
ROANOKE—*Griffin & Satterwhite
SLEMA—*Parke & Stevens
†Schuster, Benj. J.
TALLADEGA—Talladega Hardware Co.
TUSCALOOSA—†Allen & Jamison Co.
*Harder Planing Mill & Lumber Co.

ARIZONA

PHOENIX—Ryder, H. W.
PRESCOTT—Clark & Adams
TUCSON—Tucson Lumber Co.

ARKANSAS.

BRINKLEY—*Brinkley Car Works & Mfg. Co.
EUREKA SPRINGS—†Lloyd, W. J.
FORT SMITH—*Kenny Bros. (Wholesale)
†Tenney, J. M. & Co.
HELENA—†Carvill, Herman & Co.
LITTLE ROCK—Abels, C. T. & Co., 215 Main
Central Lumber Co., 303 W 6th
MAGNOLIA—†Davis & Warnock
†Couch Hardware Co.
MARIANNA—L'Anguille Lumber Co.
MORRILTON—Dowdie & Henley
NASHVILLE—†Skillern, Alex. L.
PINE BLUFF—*Bluff City Lumber Co.
TEXARKANA—Chatfield & Buhrman Hardware Co.

CALIFORNIA.

EUREKA—*Burgess, C. W.
*Humboldt Door & Sash Co.
FRESNO—*Madary, M. R.
HOBART MILLS—*Sierra Nevada Wood & Lumber Co. (Wholesale)
LIVERMORE—†Anspacher Bros.
Horton & Kennedy
LOS ANGELES—*Alta Planing Mill Co.
*Bourne & Hamilton
Builders Supply Co.
*California Planing Mill Co.
†Carpenter & Biles Mill & Lumber Co., 3310 S Main
City Mill & Mfg. Co., 290 N Av 21
Consolidated Lumber Co., 762 S Main
†Fuller, W. P. & Co., 140 N Los Angeles
*Hughes Mfg. Co.
*Kerchoff-Cuzner Mill & Lumber Co.
*Los Angeles Planing Mill
†Los Angeles Sash & Door Co., 234 Aliso

Los Angeles Storage Commission & Lumber Co., 345 E 2d

†Madary's Supply House, 737 Aliso
National Lumber Co., Alameda ft 20th
†Notzger, D. I. Lumber Co.
Raphael, H. Co. (Wholesale Dealers), 509 S Main

†Santa Fe Planing Mill Co., 940 E 4th
Vernon Lumber Co., 4705 Central av
Western Commercial Co. (Wholesale Dealers), 320 E Market

Whiting Wrecking Co., 409 E 9th

MENDOCINO—†Brown, Eugene
NAPA—*Corlett Bros.

NEVADA CITY—Marsh, M. L. & D.

OAKLAND — *Burnham - Standeford Co., Wash'n c 1st

California Door Co., c 16th & Wood
*Mann & Mole
Pacific Coast Lumber & Mill Co., 2d c
*Redwood Mfg. Co., 673 B'way. Grove
†Young, R. S. Supply Co., Wash'n c 4th

OROVILLE—Perkins & Wise Co.

PASADENA—Blinn, L. W. Lumber Co.
Kerckhoff-Cuzner Mill & Lumber Co.
*Pasadena Mfg. Co.

PETALUMA—Cavanaugh, Mrs. D.

PLACERVILLE—Beach, S. G. & Co.

Blair, J. & J.

RED BLUFF—*Sierra Lumber Co. (Wholesale)

SACRAMENTO—*Burnett & Sons

Frazer, E. F.

Friend & Terry Lumber Co.

†Fuller, W. P. & Co.

*Suter-Hevener Mill & Mfg. Co.

SAN DIEGO—Fuller, W. P. & Co.

*Graham, M. A. Mill Co.

*Russ Lumber & Mill Co.

†San Diego Lumber Co.

†West Coast Lumber Co.

SAN FRANCISCO—Burgess, C. W., 118 14th

California Door Co., 18 Drumm

California Mill Co., 134 Spear

Dean Reversible Window Co., 553 Brannan

Doe, C. F. & Co., 48 Market

Hammond Lumber Co., Hayward bldg

Hansen, A. S., Berry, bet. 5th & 6th

Hansen, M. & Co., 231 King

Huber, Frank, 561 Brannan

McCall's Sliding Hinge Window Co., 215 Golden Gate av

Moore, Robt. B., 541 Brannan

San Francisco Planing Mills, 528 5th

Sierra Lumber Co., 320 Sansome

Wilkie, Andrew, 713 Bryant

Wilson & Bro., 22 Drumm

SAN JOSE—*Chase, S. H. Lumber Co.

*Hardware Planing Mill

Hubbard & Carmichael Bros.

*Santa Clara Valley Mill & Lumber Co. (Wholesale)

SANTA ANA—†Griffith, J. M. Co.

†Pendleton, S. H. Lumber & Mill Co.

SANTA BARBARA—Humphrey, G. W. & Co.

*†Union Mill Co.

SANTA CLARA—*Pacific Mfg. Co.

SANTA MARIA—Bryant & Trott Co.

SANTA ROSA—Berka, Frank

SHINGLETOWN—Reynolds, L. C.

STOCKTON—Simpson & Gray

Stockton Lumber Co.

*Thomas & Buell

Union Planing Mill Co.

COLORADO.

ALMA—Stanley, W. P.

COLORADO SPRINGS—*Walsh, Daniel W.

DENVER—*Bingham, H. W. & Co., Larimer,

English, R. W. Lumber Co., 51 Jacobson bldg

Hallack Lumber Supply Co., 3901 Gilpin

*Hallack & Howard Lumber Co., Larimer

*Lewis & Wheeler Mercantile Co., 1525 18th

*McPhee & McGinnity, 18th & Wazee

*Phoenix Planing Mill Co., W 1st & Sante Fe avs

*Sayre-Newton Lumber Co., 23d & Blake

FORT COLLINS—†Corbin-Black & Wilson Lumber Co

GLENWOOD SPRINGS—Dougan, Wm., Edwards, nr N

LEADVILLE—Smith, S. L. Lbr Co., 910 N Hunlock

Williams Lumber Co., 6th & Hemlock

PUEBLO—†Foley, T. H. Lumber Co.

†Hughes Bros., 2d c Court

†Newton Lumber Co., 4th c Court

*Pueblo Lumber & Mfg. Co., D c Mechanic

TRINIDAD—†Davis, O. L. Lumber Co.

†Hughes Bros. Lumber Co.

CONNECTICUT.

ANSONIA—†Ansonia Lumber Co.

BRIDGEPORT—Burrill, A. W. Co., Knowlton

*Miller, Frank Lumber Co. & Arctic

†Tomlinson, J. L. Lumber Co., 89 Knowlton

BRISTOL—†Fogg, W. E.

†Judd, D. B. & Co.

†Saxton & Strong

DANBURY—*Armstrong, I. & Co., 42 River

*Foster Bros.

DERBY—†Carter & Hubbell Co.

HARTFORD—*Andrews & Peck Co., 88 Market

Booth, C. E., 36 Wells

*French, H. A., 75 Arch

Nims, Whitney & Co., 1170 Main

MERIDEN—†George, W. H. H., 16 Stone

†Lyon & Billard Co., 13 S Colony

†Meriden Lumber Co., 174 State

†Morehouse Bros. Co., 129 State

MIDDLETOWN—†Davis, L. O. & E. S.

NEW BRITAIN—†Rackliffe Bros. Co.

†Rogers, D. M. & Co.

NEW HAVEN—*Clark, David H., 166 Brewery

†Bent, Wm. E., 163 William, W. Haven

†Brodner, Kaufman, 103 Congress av

*Curtis, C. B., 118 Winchester av

†Elm City Lumber Co., 136 Water

†Hawthorn, Lewis Co., 88 Water

†Humiston, O. W., 78 Water

†Morgan & Humiston, 30 Front

Norton Bros. & White Co., 85 Water

†Sperry & Amos Co., 93 Water

NEW LONDON—†Goddard, Asa O.

NEW MILFORD—†Beach, C. M.

†Soule, T. Co.

NORWALK—†Hatch & Bailey Co.

†Hubbell & Staples Hardware Co.

*Malkin, A. R. & Co.

*Mather, H. W.

NORWICH—†Chappell, Edw. Co.

†Crowell, Fred C., 91 Water

†Hixcox, James A.

*Porter, H. B. & Son Co.

PLAINVILLE—†Pierce, E. N. & Co.

PORTLAND—†Strong & Hale

PUTNAM—†Fox, J. O. & Co.

Kent, C. M. & E. B.

Wheaton Building & Lumber Co.

ROCKVILLE—†Grant, Frank

SOUTHINGTON—†Southington Lumber & Feed Co.

STAMFORD—*St. John Wood Working Co.

*Hotchkiss Bros. Co.

†Stamford Lumber Co.

WATERBURY—†Brass City Lumber Co., 60 Meadow

†City Lumber & Coal Co., 54 Center

Smith, J. E. & Co., 49 Benedict

*Waterbury Lumber & Coal Co., 107 Meadow

WILLIMANTIC—Boss, Chas. L.

†Hillhouse & Taylor

WINSTED—†Burwell, J. C.

DELAWARE.

DOVER—*Hartnett, J. A. & Bro.

Pennewill, C. S.

GEORGETOWN—Thoroughgood, Wm. J.

MIDDLETOWN—†Hukill, G. E.

SEAFORD—Wallace, L. E.

WILMINGTON—*Carey, Andrew

Evans, Hy.

Simmons, S. G. & Bro., Tatnall & Front

*Wilmington Sash, Door & Blind Co.

DISTRICT OF COLUMBIA.

WASHINGTON — †Barber & Ross, 614 11th, N W

*Barker, Geo. M., 649 N. Y. av, N W

*Dyer, William H., 13th c Oblo, N W

*Libby, J. Edward & Sons, 3018 K, N W

Smith, T. W., 1st & Indiana av, N W

*Walker, Geo. E., 7th & K, S W

*Washington Woodworking Co., 12th c B, N W

*Weigand, M., 451 Md. av, S W

FLORIDA.

APALACHICOLA—*Marshall, John & Co.

BAGDAD—*Bagdad Sash Factory Co.

DAYTONIA—Dillingham, E.

FERNANDINA—†Hoyt, Fred W. & Co.

JACKSONVILLE—Enterprise Planing Mill Co.

†Florida Hardware Co., 10 W Bay

†Hubbard, S. B. Co. (Inc.)

KEY WEST—†Johnson, J. W.

†Johnson, W. A. & Bro.

PALATKA—*Selden Cypress Door Co.

PENSACOLA—*De Silva, H. G. & Co.

ST. AUGUSTINE—†Hamblen, C. F.

SANFORD—†Fernald, Geo. H. Hardware Co.

TALLAHASSEE—†Gilmore & Davis

†Yaeger, L. C.

TAMPA—†Knight & Wall Co.

†Morse, Charles O.

GEORGIA.

ALBANY—*Cruger & Pace

†Weston, J. D.

AMERICUS—*Americus Construction Co.

†Sheffield-Huntington Co.

ATHENS—†Athens Hardware Co.

†Fleming, T. & Sons

ATLANTA—*Ray, D. J., 90 Decatur

†Smith & Simpson Lumber Co., 391 Peters

*Traynham, W. L.

†West Lumber Co., 236 Peters

†Williams, G. O. Lumber Co., 257 Marietta

†Willingham, E. G. & Co.

*Woodward Lumber Co.

AUGUSTA—*Augusta Lumber Co.

*Perkins Mfg. Co.

BRUNSWICK—†Colson Hardware Co.

CARROLLTON—*New, D. F. & Bro.

COLUMBUS—Columbus Iron Works Co.

*Dudley-Butts Sash, Door & Lumber Co.

†Harvey, W. T. & Co., 1st av & 12th

CORDELE—Cordele Sash, Door & Lumber Co.

DALTON—*Cherokee Mfg. Co.

*Farrar Lumber Co.

FITZGERALD—*Small, J. D.

GAINESVILLE—Queen City Planing Mill Co.

GRIFFIN—*Gresham Planing Mill Co.

Griffin Sash & Door Co.

LA GRANGE—*Pike Bros. Lumber Co.

MACON—Burke, T. C., 358 3d

*Wilders, R. C. Sons Co., 614 3d

*Willingham Sash & Door Co., 457 3d

MARIETTA—*Henderson, C. E.

NEWMAN—*Cole, R. D. Mfg. Co.

ROME—O'Neil Mfg. Co.

*†Patton Sash, Door & Building Co.

SAVANNAH—†Adams Paint Co.

*Bacon, A. S. & Sons

†Butler, John G. Builders Supply Co., 20 Congress

†Hanley, Andrew Co., 127 Whitaker

†Neal-Blum Co., 112 W Bay

*Sav. Lumber Co.

*Southern Pine Co. (of Georgia)

STAUNTON—Harrell, Simeon

THOMASVILLE—†Watt Supply Co.

VALDOSTA—Asbley-Paine Mfg. Co.

WASHINGTON—Washington Mfg. Co.

WINDER—†Boyd, W. E. & Co.

*Pledger & Vonderlieth

IDAHO.

BOISE CITY—*Goretsky, A.

†Ridenbough, W. H.

†Shaw Lumber Co.

ILLINOIS.

ALTON—*Ginter-Wardien Lumber Co.

*Winter, H. L.

ANNA—Anna Lbr. & Mfg. Co.

AURORA—*Hill, L. O.

*Johns & Brown Co.

Spear, Warren & Son

BATAVIA—†Hunter-Griffith Co.

BEARDSTOWN—*Rblneberger, W. H.

BELLEVILLE—†Reis, J. B. Lumber Co.

†Reis, M. & H.

*Storck, Geo. P.

BLOOMINGTON—†Darlington, E. R. Lumber

*Evans, John W. Sons Co. Co.

†Fordice, J. M.

†Harwood, W. S. & Bro.

*Minter Mfg. Co.

†Parker Bros.

*White, S. R. Mfg. Co.

BLUE ISLAND—†Schmitt Bros.

OAIRO—Lancaster & Rice Lumber & Mfg. Co., Commercial av

†Langan, P. T., 1006 Commercial av

California Mfg. Co., 976 S Troy
 †Chandler Lumber Co., 100 Elston av
***CHICAGO MILL WORK SUPPLY**
 Co. (Mfrs.), 22d e Sangamon. (See adv.
 index, end of book)
 *Chicago Sash, Door & Blind Mfg. Co., 48
 W North av
 *Chicago Veneered Door Co., Chamber of
 Commerce bldg
 †Clayton, Mrs. Emily, 1127 Armitage av
 *Commercial Sash & Door Co., W 49th &
 S Paulina
 *Cottage Grove Mfg. Co., 101 38th
 †Curtis, Cornelius W., W 22d & S Centre av
 †Curtis, Edgar C., 115 Michigan
 Davls, E. J. Mfg. Co., 259 W 21st
 †Dencer, Mathias Co., 24th & Butler
 *Dietsch, A. & Co., 619 Sheffield av
 *Dlouhy, Vincent Sash & Door Co., 701
 †Dodge, H. B. & Co., 108 Lasalle Lafin
 †Dykema, A. & Co., 6818 S Halsted
 Ehrhart, Louis & Son, 334 W Fullerton av
 *Englewood Sash & Door Co., 5947 Lowe
 Filler, Edwd. T., 79 Dearborn av
 Filip, Meydrech & Co., 505 W 21st
 Foley Mfg. Co., 471 W 22d
 Foster-Munger Co. (Wholesale), W 20th
 & S Sangamon
 †Freese, F. E., 1232 Armitage av
 *Gardner Mill Co., 1140 Elston av
 †Gauger, John A. & Co., W 22d & Lafin
 General Sash & Door Ass'n, 402-77 Jackson
 boul
 Gisselbrecht & Sator, 992 N Mozart
 Globe Lumber & Mill Co., 1140 Elston av
 †Haring, Louise C., 1138 Clybourn av
 Harty Bros. & Harty Co., 442 W 21st
 Hegener, Rudolph Co., 9232 Harbor av
 Hess, Frank & Sons, 1264 N California av
 Hillock, John (Est. of), 2601 Hillock av
 Howell, Thos. S., 189 La Salle
 Johnson, John L., 460 Wellington
 *Katz & Hamann Co., 5951 S Halsted
 Kelly Bros., 5336 Armour av
 King, Pat'k J., 705 Bloomingdale av
 Kraetzer, Fischer & Co., 95th & S Chicago
 *Krause, Fred'k F., 969 Tripp av av
 Lechlitter, Peter, 909 W Madison
 *Leitzow & Simon Mfg. Co., 505 W Kinzie
 *Lockwood & Strickland Co., 49th & Hal-
 sted
 *McEwen Building & Mfg. Co., 245 N
 Wells
 Mears, Chas. H. & Co., 1113 Belmont av
 Melrose Mill Co., 1130 Clybourn av
 *Morgan Sash & Door Co. (Sash, open,
 glazed; Doors, Veneered Doors, Blinds &
 Shutters), W 23d & Union
 Morris, Wm. & Sons, 563 35th
 *Nollau & Wolff Mfg. Co., 45 Fullerton av
 *North Ave. Mfg. Co., 53 E North av
 North Side Sash & Door Co., 1451 South-
 Paine Lumber Co., 138 Wash'n port av
 Peters, H. G., 740 W 15th
 Pulaski Sash & Door Co., 75 W North av
 Purmort, Henry C., Throop & W 22d
 Radford Sash & Door Co., 190 W 22d
 Rinehart, J. R. Co., 668 W Madison
 *Rinn, Philip Co., Division & Crosby
 Roberts, B. L. & Co., W 22d e Union pl
 Russell, Perley A., 1131 School
 Schaller, Henry, 695 Fullerton av
 Schaller-Hoerr Co. (Storm Sash & Doors,
 etc.), 418 Blue Island av
 Scheldt Mfg. Co., 2756 N 40th av
 Schroth & Ahrens, 635 S Halsted
 *Skowronski, W. J., 8811 Erie av
 South Side Lumber Co. (Wholesale), 22d
 & Ashland av
 Spoor, Chas. H., 287 N. Green
 *Standard Sash & Door Co., 5821 S Center
 av
 Stewart, Alex., 316 Chamber of Commerce
 Storgaard, Anders, 927 N Western av
 Struthers, A. J. & Co., 1616 Grand av
 Tibbits-Cameron Lumber Co., 644 Greenleaf
 Treftz Bros., 542 33d
 True & True Co., Blue Island av, s w c
 Lincoln
 *Twentieth Century Window Co., 1224
 Newport av
 Ullrich, August G., 3864 Archer av
 Union Interior Finish Co., Lasalle nr W
 *Von Platen & Dick, 843 W Kenzie 53d
 Weidenaar, H. & Co., 6643 Union av
 Wheelock Lumber & Mfg. Co., 945 N
 Campbell av
 Wilson, Jas. G. Mfg. Co., 108 Lasalle
 Wright, Chas. O., 1855 N Calif av
CLINTON—†Killough, John
DANVILLE—†Holden, N. E.
 Watson, Geo. H.
DECATUR—Decatur Lumber & Mfg. Co.
 †Huff, W. J. & Co.
 Lyon, Geo. S. & Sons Lumber & Mfg. Co.
 †Mills Lumber Co.

DE KALB—*Schermerhorn, L. C. & Co.
 *Wiltberger, J. S.
DIXON—*Deeter, John A.
 *Fletcher Mfg. Co.
DUNDEE—*Rossow, Fred
EAST MOLINE—*Stiefken, Henry
EAST ST. LOUIS—*Eade, J. C. Planing Mill
 Co.
 *Gedney Construction Co.
 †Goedde, B. & Co.
 *Miller, Chas. J.
 *Wiegrefe, Theo. & Sons
EDWARDSVILLE—†Hotz Lumber Co.
EFFINGHAM—†Wildi-Leddy Lumber Co.
ELGIN—*Rinehimer Bros. Mfg. Co.
EVANSTON—†Pearson Lumber Co.
FREEPORT—*Bamberger, Elias
FULTON—*McNamara, John
GALENA—†Hoskins, Wm. & Co.
 Taylor, D. A.
GALESBURG—*Carlson, David
 *Colton, G. D. & Co.
GRANITE—Granite City Planing Mill Co.
HARVARD—†Lake & Harris
HIGHLAND—†Marti, Sebastian
JACKSONVILLE—Andrews, B. P. & Sons
 South Side Planing Mill Co.
JERSEYVILLE—†Christy, John
 †Cokerell, E. Lumber Co.
 †Robb, Alex. C.
JOLIET—*Alexander, M., 105 S Desplaines
 *Hacker, C. Co., 100 Collins
 †Joliet Sash & Door Co.
 †Trubey & Co.
KANKAKEE—*Paulissen, John G.
 †Troup, H. H. & Co.
KEWAUNEE—Scott, John
KNOXVILLE—†Beamer & Lacy
LA GRANGE—*Lord, P. A. Lumber Co.
LA SALLE—†Hunter-Stevens & Co.
LEMONT—Derby, S. L. Lumber Co.
 †Helbig, A. J.
LINCOLN—*Hungerford, William
MATTOON—Andrews Bros.
 †Moore-Gabbert Co.
MENDOTA—†Dudgeon Bros.
METROPOLIS CITY—†Gibbons, A. J.
MOLINE—Dimock, Gould & Co.
 †Mueller Lumber Co.
MONMOUTH—†McCullough Lumber & Coal Co.
 †Monmouth Lumber Co.
MOUNT CARMEL—†Stairman & Seibert
MOUNT VERNON—†Walker, Johnson & Co.
NAPERVILLE—†Schwartz, M. & Co.
NEWMAN—†Thomas, Reuben
NORMAL—†Stillhamer, H. W. & Co.
NORTH AURORA—*Hartsburg & Hawksley Co.
OAK PARK—*Bedard & Morency Mill Co.
OTTAWA—Sanders Bros. Mfg. Co.
 †Stewart, Wm. K.
PARIS—†Propst Lumber Co.
PEKIN—†Conklin, Reuling Co.
PEORIA—†Allen, Jas. V., 1612 S Washington
 *Bush Bros. Mfg. Co., 1717 S Washington
 *Carr & Adams Co., 916 S Wash'n
 †Cutright & Russell, 1000 S Washington
 *Garside Mfg. Co., S Wash'n, e Oak
 †Knetzger, Chas. Lumber Co., S Washington
 †Mackemer Lumber Co., 601 S Washington
 †Rogers, Jas. T., 810 S Washington
 *Rothan, Geo. J., Johnson & Webster
 *Todhunter & Alfs, 208 Walnut
 *Wahlfeld Mfg. Co., 1101 S Wash'n
PERU—†Maze, W. H. & Co.
 †Zimmerman, C. & Co.
PONTIAC—†Smith, F. N.
QUINCY—*Menke-Grimm Planing Mill Co.
 *Mulliner Box & Planing Co., 2d & B'way
RED BUD—†Boedeker, C. H.
ROCKFORD—†Crumb, R. W. Lumber & Fuel
 Co.
 *Derwent, T. J. Co.
 †Marshall, A. H.
 Parsons Lbr. Co.
 †Rockford Lumber & Fuel Co.
 *Rockford Builders' Supply Co.
 *Stevens & Son Mfg. Co.
ROCK ISLAND—Rock Island Sash & Door
 Rock Island Wood Works Works
 *Volk, Jno. & Co.
SPRINGFIELD—†Baker & Baker
 *McGrue, Harry O.
 *Power, Chas. A.
 †Schuek, J. H. & Son
 Vredenburg, Peter Lumber Co.
STERLING—†Dillon, Moses Co.
 *Peck, John
STREATOR—†Ames, John C. Lumber Co.
 †Schmid, George A.
 Streator Lumber Co.
URBANA—†Huff, S. E. & Co.
UTICA—†Wilson, Jas. E.
WAUKEGAN—*Dow, W. H. Mfg. Co.
 †Gourley, John & Co.
 †Kirk, George & Son
WEST CHICAGO—*Brandt, Haase & Walsh

INDIANA.

ALBION—†Eagles & Son
ANDERSON—†Atherton, M. & Sons, N Me-
 *Springer, G. E., N Main rldna
BATESVILLE—†Meyer, J. & Bro.
BEDFORD—†Bedford Building Supply Co.
 *Johnson, J. J.
BERNE—†Baumgartner Bros. & Co.
 Gilliom Lumber Co.
 †Schug Bros.
BLOOMINGTON—Davis Hdw. Co.
 *Fulwider, W. A.
BLUFFTON—†Cline, A. B. & Co.
BOONVILLE—†White, C. P. Lumber Co.
BRAZIL—*Halstead, J. N.
 *Reed & Sons
 *Wildner, C. E. & Co.
BREMEN—†Steineck, J. H.
BROOKVILLE—†Dudley, F. M.
 †Fieber & Holmes
 †Fries & Geis
 †Samoniell, C.
CARLISLE—†Risinger & Ellis
CICERO—*Cicero Lumber Co.
CLAY CITY—†Guirl, W. H. & Co.
 †Middlemas, D. C. Sons
COLUMBUS—*Dunlap & Co.
 †Hege & Co.
 †Schwartzkopf, J. G. & Son
CONNERSVILLE—†Enos, E. A. & Co.
 *Stoops, Thos. H.
CORYDON—†Bullitt, J. J. & Son
 †Hurst, B. F.
COVINGTON—†Clark, M. H.
 †Townsend, J. L.
 *Williams, Geo. W.
CRAWFORDSVILLE—*Rumble, Geo. & Bro.
DECATUR—*Kirsch, Peter
ELKHART—†Newman Bros.
ELWOOD—†Winters Lumber Co.
EVANSVILLE—*Cottage Bldg Co.
 *Evansville Planing Mill Co.
 *McCorkle, John S.
 *Mechanics' Planing Mill Co.
 †Rechtin, Theo. E.
 *Schnute-Holtmann Co.
 †Schultze, Waltman & Co.
FAIRMOUNT—†Merceer, Brannum & Bevington
 †Swain, J. L. Co. Co.
FORT WAYNE—Diether Lumber Co.
 *Fort Wayne Lumber Co.
 *Gilmartin, Edw.
 †Rhinesmith & Simonson
 †Schlatter, C. C. & Co.
FRANKFORT—*†Deming & Thompson Lumber
 Co. Co.
 *Kramer Bros. Co.
GARRETT—*Allman, N. R.
 †Garrett Lumber Co.
GOSHEN—*Goshen Sash & Door Co.
GREENCASTLE—†Bieknell Hardware Co.
 †Cook, John
 Owl Mercantile Co.
HAMMOND—†Paxton Lumber Co.
HARLAN—*Bickhart Bros.
HUNTINGBURG—*Huntingburg Planing Mill
 Co. Co.
 †Strattman, Adam
HUNTINGTON—†Hewitt, E. G.
 †Nave & Provines
 †Reichenbach & Wickenheiser
INDIANAPOLIS—*Anson-Hixon Sash & Door
 Co., 125 E Norwood
 †Adams Carr Co., 220-226 W Merrill
 *Balk & Krauss Co., Missouri & Market
 †Buddenbaum Lumber Co., N. Y. & Plne
 †Capitol Lumber Co., 849 Massachusetts av
 †Carter, Lee & Co., 1621 W Washington
 †Dalton Lumber Co., 30 S Noble
 *Foster Lumber Co., 802 N Senate av
 †Greer-Wilkinson Lumber Co., 931 E Michi-
 †Home Lumber Co., 912 E Michigan gan
 *Indianapolis Mfrs. & Carpenters' Union,
 201 S N. J.
 †Maas-Neimeyer Lumber Co., E 22d & Monon
 †Michigan Lumber Co., 929 E St Clair
JEFFERSONVILLE—†Lindley, T. J.
KOKOMO—Armstrong, Landon Co.
 *Moore & Danner
LADOGA—*Huntington & Son
LAFAYETTE—*Lafayette Lumber & Mfg. Co.
 Taylor, Henry Lumber Co.
LA PORTE—*La Porte Sash & Door Co.
LERANON—*Pinnell, J. W. & Co.
LOGANSPOUT—†Johnson, M. L.
 *Parker & Johnston
 *Stevens & Bro.
 †Thompson Lumber Co.
 †Voorhees, Philip
MADISON—*Madison Planing Mill & Lumber
MARION—†Barley & Spencer Lbr. Co. Co.
 *Campbell, Jas.
 †Hogin, McKinney & Co.
 *Marion Planing Mill Co.
 †Marion Hardware Co.
 †Price & Co.

MICHIGAN CITY—†Michigan City Sash & Door Co.
 MISHAWAKA—†Lang, O. E. & Co. Co.
 MUNCIE—*Franklin Lumber Co.
 †Greely Lumber Co.
 †Greer-Wilkinson Lumber Co.
 †Kins & Grouleff Lumber Co.
 †Kirby-Wood Lumber Co.
 *Zook, T. L. & Son
 NEW ALBANY—*Helfrich, Geo., Sr.
 †Loughmiller, Wm. A.
 †Stoy, Peter R. & Son
 NEW PALESTINE—*Madison, Jas.
 NORTH MANCHESTER—†North Manchester
 NORTH VERNON—*Miller Bros. Lumber Co.
 PRINCETON—*Ford, A. S.
 RICHMOND—*Louck & Hill Co.
 ROCKVILLE—†Dooley & Dooley
 †Ferguson & Co.
 †Fickel & Graham
 SEYMOUR—†Union Hardware Co.
 SHELBYVILLE—*Parrish, J. O.
 SOUTH BEND—†Deming-Winnule Lumber Co.
 †Dresden & Stanfield
 *Eckler, Henry Mfg. Co.
 Indiana Lumber & Mfg. Co.
 TELL CITY—*Tell City Planing Mill Co.
 TERRE HAUTE—†Briggs Lumber Co.
 †Hooten, R. A. & Co.
 *Kintz, N. C.
 †Pierson & Bro.
 †Rankin, Morton C. Lumber Co.
 †Reese-Snyder Lumber Co.
 UPLAND—*Deeren, T. J.
 VALPARAISO—*Bell, E. A.
 VINCENNES—†Bosworth, M. A.
 †McIlvane, H. R.
 WABASH—†Klug, McNamee & Hipskind
 WASHINGTON—†Cosby, O. M.
 *McKernan, Hugh

IOWA.

ALBIA—†Hobson Bros.
 BELLE PLAINE—†Henry, F. H.
 BELLEVUE—†Bittner, Louis
 †Dorchester & Hughey
 BURLINGTON—†Gilbert, Hedge & Co.
 *Nairn, Gillies Co.
 CALMER—*Calmer Mfg. Co.
 CARROLL—†Joyce, W. T. Co.
 CEDAR FALLS—†Cedar Falls Lumber Co.
 Weisbard, F. & Sons
 CEDAR RAPIDS—†Hawkeye Lumber & Coal Co.
 †Limback & Jeffrey
 *Williams & Hunting Co.
 CHARLES CITY—*Smith, George P. Co.
 CLINTON—*Curtis Bros. & Co.
 CORNING—†Newcomb, Ralph
 COUNCIL BLUFFS—†Bluff City Lumber Co.
 *Graham, O. W.
 †Hoagland, George A.
 †Quinn, H. A. Lumber Co.
 *Wind, P. H., 13th & B'way
 CRESTON—†Green Bay Lumber Co.
 †Jackson & Sherry Co.
 DAVENPORT—*McClelland, T. W. Co.
 *Roberts, U. N. Co.
 *Sterling, P. J. & Co.
 DES MOINES—*Carr & Adams Co.
 †Century Lumber Co., 713 Mulberry
 †Ewing & Jewett, 9th & Locust
 †Getchell & Martin Lumber & Mfg. Co., 8th & Vine
 †Gillcrest, J. K. & W. H., 301 E Locust
 DUBUQUE—*Carr-Ryder & Adams Co.
 *Farley & Loetscher Mfg. Co.
 *Metz Mfg. Co.
 †Seippel, P. J. Lumber Co.
 DYERSVILLE—†Armstrong, James
 ELDORA—†Davis & Moser
 FORT DODGE—Fort Dodge Mfg. Co.
 FORT MADISON—Atlee, S. & J. O.
 INDIANOLA—†Harlan, J. M.
 INDEPENDENCE—†Independence Lumber Co.
 KEOKUK—*Carter, S. C. & S. Co.
 *Schmidt, Henry & Sons Co.
 KEOTA—†Wright, S. S. & Son
 KNIERIM—†Anderson, F. R. & Co.
 LE MAR—†Moore, M. A. & Co.
 †Perry, W. H.
 LYONS—*Disbrow, M. A. & Co.
 MCGREGOR—†Daubenberger Bros.
 MARSHALLTOWN—*Kreutzer & Wasem
 MASON CITY—*Harper, J. V. & Son
 MOUNT PLEASANT—†Hall, M. O.
 MUSCATINE—*Huttig Mfg. Co.
 *Roach & Musser Sash & Door Co.
 NEW HAMPTON—†Bigelow & Donlvan
 ORANGE—Van Pelt & Van Eizenga
 OSKALOOSA—†Sinclair, S. B.
 OTTUMWA—*Snook & Son
 †Tisdale, F. A. & Co.
 SIOUX CITY—†Bowman-Kranz Lumber Co.
 Corn Palace Mfg. Co.
 *Curtis Sash & Door Co.

†Queal, J. H. & Co.
 †Spalding, J. D.
 SPENCER—†Floete Lumber Co.
 †Perine, A. C.
 WATERLOO—†Blackhawk Lumber Co.
 †Bryant, W. A. & Sons Co.
 *Cedar Valley Mfg. Co.
 †Chapman, C. W. Lumber Co.
 †Waterloo Lumber Co.

KANSAS.

ABILENE—†Cramer & Kruger
 ARKANSAS CITY—*Roberts, H. T.
 ATCHISON—†Brockett, B. L.
 Carlisle-Pennel Lumber Co.
 †Hixon Lumber Co.
 *Stevenson & Hooper
 CHETOPA—†Long, H. H.
 †Shields, J. F.
 COLUMBUS—*Hardy Lumber Co.
 EMPORIA—†Emporia Lumber & Coal Co.
 †Evans, J. E.
 †Kirkwood, J. G.
 Watson-Ballweg Lumber Co.
 FORT SCOTT—Fort Scott Planing Mill Co.
 FULTON—Fulton Lumber Co.
 GARFIELD—†Waymire, N. O.
 GLASCO—†Chicago Lumber & Coal Co.
 GODDARD—†Pond, W. M. & Co.
 HUTCHINSON—Hutchinson Lumber & Planing Mill Co.
 *Snyder Co.
 †White, L. J. Lumber Co.
 INDEPENDENCE—Rock Island Lumber & Mfg. Co.
 IOLA—†Chicago Lumber & Coal Co.
 †Cooper, S. M. Lumber Co.
 *Iola Planing Mill
 †Northrup Lumber Co.
 †Schwartz, E. J.
 KANSAS CITY—†Armourdale Lumber Co., Kansas av c Brent
 †Badger Lumber Co., Kansas av c 1st
 †Byrne, John M. Lumber Co., 5th & Everett
 †Creel, T. C. Lumber Co., 5th & Central
 Ellis, J. W. Planing Mill Co., Scott & St.
 Foster Lumber Co., 1503 N 5th Paul
 Wyandotte Planing Mill, 1814 N 5th
 LEAVENWORTH—Broadway Mfg. Co., B'way n Cherokee
 †Garrett, Robert Lumber Co., 6th n Cherokee
 LOGAN—†King, E. I. & Co.
 McPHERSON—†Lake Superior Lumber Co.
 †Sudendorf, H. H.
 NEODESHA—†Cernaln, W. N. (Est. of)
 NEWTON—†Newton Lumber Co.
 †Swartz, S. M. Lumber Co.
 OBERLIN—†Chicago Lumber & Coal Co.
 †Foster Lumber Co.
 OTTAWA—†Hallenore, J.
 †Harris, M. R.
 †Winget, W. F. & Co.
 PARSONS—†Clark & Bates Lumber Co.
 †McCreery & McClung
 PEABODY—†Davidson & Co.
 PHILLIPSBURG—†Central Lumber Co.
 †Smith, Theo. & Son
 PITTSBURG—*Drumagel & Watkins
 *Ransom, H. R.
 †Sweet, C. B. & Bro.
 SALINA—Leidigh & Havens Lumber Co.
 †Richolson Lumber Co.
 STERLING—†Fair, D. J.
 TOPEKA—†Central Sash & Door Co.
 *Horn, E.
 *Myers Planing Mill & Mfg. Co.
 WICHITA—*United Sash & Door Co., 240 S Mosley
 *Wichita Sash, Door & Planing Mill Co.

KENTUCKY.

ASHLAND—†Henderson, Thomas & Son
 AUGUSTA—†Moneyhow, Geo. W. Co.
 BOWLING GREEN—*Klister, F. L., Jr.
 *Roemer Bros.
 CARLISLE—†Dorsey Bros. & Fisher
 COVINGTON—*Brownfield, J. A., 37 W 8th
 *Covington Lumber Co., Madison av
 *Hellmann, Lumber & Mfg. Co., 165 W 12th
 *Kentucky Planing Mill Co., 8th e of Garrard
 McDannold, F. M. (Dealer), 16th & Madison av
 *Vogg, John Planing Mill, 2d & Main
 DAYTON—†Newport & Dayton Lumber Co.
 FRANKFORT—*Choate Bros.
 *Pilkington, H. C.
 GLASGOW—Smith, J. N.
 HENDERSON—*Clare's, Joseph Sons
 †Johnson, P. P. & Son
 HOPKINSVILLE—*Forbes Mfg. Co.
 LAWRENCEBURG—Thurman, R. L.
 LEXINGTON—*Lexington Lbr. & Mfg. Co.
 *Spottwood, L. R. & Son
 *Williamson & Son

LOUISVILLE—†Alford-Bullock Lumber Co.
 *Anderson Bros. Southern Planing Mill
 *Bell & Coggeshall Co.
 *Central Planing Mill & Lumber Co.
 †Comstock, L. H. & Bro.
 †Cook, Frank S. & Co.
 †Gernert Bros. Lumber Co.
 †Graham, S. P.
 †Hughes, E. L. Co.
 *Kentucky Sash & Door Co.
 †Koehler, Henry & Co.
 *Lortz & Frey Planing Mill Co.
 †Mehler & Eckstenkemper Lumber Co.
 *Moody, G. E. & Co.
 *Struck, J. N. & Bro. (Inc.)
 MAYSVILLE—†Collins, H. H. Lumber Co.
 †Mathews, W. B. & Co.
 †Ohio River Lumber Co.
 MOUNT STERLING—McCormick Lumber Co.
 Star Planing Mill Co.
 NEWPORT—*Voss, Frank, 417 W 7th
 *Weingartner's, Joseph Sons, 1027 Monmouth
 OWENSBORO—†Morrow Lumber Co.
 PADUCAH—Langstaff-Orm Mfg. Co.
 PARIS—Lowry & Talbott
 RUSSELLVILLE—*Roberts & Brown
 SHELBYVILLE—*Gruber, L. H. & Sons.
 †Hall, W. H. & Son
 †Sharp, D. N.
 WARSAW—*M'Dannell, J. H. & Sons.

LOUISIANA.

FRANKLIN—*Hanson, Albert Lumber Co.
 JENNINGS—*Jaenke, H. F. Lumber Co.
 LAKE CHARLES—*Mutersbaugh, G.
 LUTCHER—*Lutcher & Moore Cypress Lumber Co.
 NEW IBERIA—*Iberia Cypress Co. (Ltd.)
 *Trainor's, O. J. Son
 NEW ORLEANS—*Algiers Mfg. Co., 240 Gen. Meyer av
 *American Mfg. Co. (Ltd.), 2101 Louisiana
 *Berlin Steam Sash, Door & Blind Factory, 1020 Marigny
 *Berwick Lumber Co. (Ltd.), 2333 Clio
 *Builders' Supply Co. (Ltd.), 2019 Magazine
 *Central Mfg. & Lumber Co., Perdido, c S Salcedo
 *Chalin, Henry & Co. (Ltd.), 7451 Levee
 *Crescent City Mfg. Co. (Ltd.), 1205 Montegut
 *Cypress Selling Co. (Ltd.) (Red Cypress, etc.)
 *Franklin Sash Factory, 2125 Callopie
 *Lambou & Noel Lumber & Mfg. Co. (Ltd.), c N Peters & Kentucky
 *Lewis, H. F. Co. (Ltd.), 316 Baronne
 *Lhote Lumber Mfg. Co., Toulouse c N Liberty
 *Louisiana Steam Sash, Door & Blind Co., 1411 Gravier
 *Reimann Mfg. Co. (Ltd.), 3115 Baudin
 SHREVEPORT—*Allen Mfg. Co.
 *Hardman, C. C. & Co.
 *Victoria Lumber Co. (Ltd.)

MAINE.

AUGUSTA—†Augusta Lumber Co.
 *Lawrence, Newhall & Page Co.
 BANGOR—†Dickey, Wm. P. & Co.
 †Haynes & Chalmers Co.
 *Morse & Co.
 †Rice & Miller
 *Washburn, C. A.
 BATH—*Passmore, H. T. & Co.
 BELFAST—*Durham, J. C.
 †Hall, C. B.
 *Mathews Bros.
 BERWICK—*Nutter, J. C.
 BIDDLEFORD—†Banks, C. K.
 BOOTHBAY HARBOR—†Boyd, Samuel
 CAMDEN—*Camden Lumber Co.
 CARIBOU—*Ellenwood Bros.
 CHERRYFIELD—*Wilson, E. K.
 †Wingate, E. R.
 DEXTER—Eldridge Bros.
 EASTPORT—†Capen, Geo. W.
 †Cherry, E. M.
 †Dyer, C. H. & Son
 †Wadsworth, S. L. & Son
 ELLSWORTH—†Curtis, A. W.
 *Bonsey, E. & Son
 FAIRFIELD—†Totman, A. H.
 FORT FAIRFIELD—*Stevens, L. W.
 FOXCROFT—†Steward, J. H. & Son
 GARDINER—†Smith, Benj. S.
 HOULTON—*Davis, I. H.
 *Van Wart & Whitney
 LEWISTON—*Adams & White
 LIVERMORE FALLS—†Sewall, E. & H.
 MACHIAS—*Foster & Bryant
 MADISON—*Dane, J. H.
 MECHANIC FALLS—†Weston, A. J.

NORWAY—†Hathaway, C. L.
 PITTSFIELD—†Bryant & Co.
 PORTLAND—†Allen, W. A., 125 Somerset
 *Berlin Mills Co.
 †Burrowes, Jno. W., 112 Preble
 †Farnham, H. F. & Co., R R Wharf
 †Leavitt, James, A. & Son, 366 Commercial
 *Nelson Mfg. Co. (Blinds), 273 Middle
 *Portland Door, Sash & Blind Co., 477
 †Smith & Rumery, 510 Fore
 ROCKLAND—†Glover, W. H. & Co., 451 Main
 SANFORD—†Brown, O. W., Main
 SKOWHEGAN—*Dane, J. H.
 *Page, Ira W., Jr.
 *Robinson Bros.
 WATERVILLE—†Arnold, W. B. & Co., 109
 †Hanson, Webber & Dunham, 99 Main

MARYLAND.

BALTIMORE—*Balto Sash & Door Co., How-
 *Dorsey Lumber Co., Highland av & West
 *Duker, O. Co., Canton av & Albemarle
 †Foster, James P. & Co., 115 S Frederick
 *Gilbert, J. L. & Bro., East Falls & Canton
 †Grauer, George, 326 Belair av
 †Hanneman, Aug., Monument c Milton av
 *Heise, Bruns & Co., 600 S Caroline
 †Keen, W. F. & Co., York rd & Carroll av
 *Lafayette Mill & Lumber Co., 2100 W
 *Morgan Co., Union Trust bldg. Main
 offices & factory at Oshkosh, Wis.
 †Mottu, Theo. & Co., 1022 Penna av
 †Scherer, Wm. C., 810 W Balto
 *Short, John H., Uhler's alley
 *Sloan, Geo. F. & Bro., 414 Light
 *Storck & Cook, 1066 N Front
 †Sunner & Gerlach, 1401 N Register
 *Thomas, Jos. & Son, 818 Leadenhall
 *Tinley & Co., 753 W Pratt
 Waggner, Lewis & Co., 17 S Gay
 CUMBERLAND—†Cumberland Sash & Door Co.
 ELKTON—†Keys & Miller Lumber Co.
 EMMITSBURG—†Zimmerman, E. R. & Son
 FREDERICK—*Wilcoxon & Brown
 HAGERSTOWN—*Snyder, Geo. C. & Co.
 HAVRE DE GRACE—†Dubois, Jno. E.
 LAUREL—†Shaffer, C. F.
 SALISBURY—*Adkins, E. S. & Co.
 *Mitchell, Thos. H.
 †Williams, L. E. & Co.
 SNOW HILL—†Corddry, W. D. & Son

MASSACHUSETTS.

ADAMS—†Arnold, H. J. & Sons
 †Holden, M. J. Lumber Co.
 ATHOL—*Raymond, Alfred J.
 *Tyler, A. F.
 AYER—†Phelps, Levi W.
 BARRE PLAINS—*Rich, T. E. Co.
 BOSTON—*Bailey, E. W. Co., 24 Kneeland
 *Bristol Door & Lumber Co., 147 Milk
 *Brockway-Smith Corp., 18 Washington
 Carlisle-Ayer Co., 28 Washington, N
 †Carlisle, E. A. & Pope Co., 2 Sudbury
 *Chapman, H. B., 81 Bristol
 *D'Arcy, M. F. & Co., 15 Wash'n N.
 *Ellms, H. E. & Co., 22 Wash. N.
 *Farrell, C. H. & Co., 19 Wareham
 †Hastings, A. W. & Co., 134 Friend
 †Jackson & Newton Co., 7 Haymarket sq
 *Johnson, Thos. J. & Co., 292 Harrison av
 *Jones & Ware, 100 Utica
 *Kinnear Mfg. Co., 85 Water
 *Newton, F. C., 57 Bristol
 *Skinner & McManus, 41 Beverly
 *STEARNS, A. T. LUMBER CO.,
 Neponset. (See adv. index, end of book)
 *West End Sash Co., 55 Wash N
 BROCKTON—†Mitchell, L. & Co.
 †Taunton Lumber Co.
 CAMBRIDGE—*Hersey, Ira G., 113 B'way
 CLINTON—*Fuller, Wm. A.
 †Howe, N. L.
 FALL RIVER—*Blossom, B. & Son
 †Borden, Cook & Co., 650 Davol
 †Neill, Joseph O., 130 Bedford
 †Prosser, Wm. & Son, 185 Pleasant
 †Skinner, A. H.
 FITCHBURG—†Johnson, W. C., 109 Water
 †Lawrence, Ivers P.
 *Leger, Dosithe
 *Priest, C. A. Lumber Co., 45 Rollstone
 †Webber Lumber Co., 31 Newton pl
 GARDNER—†Favor, M. M.
 †Wright, L. A. & Co.
 GLOUCESTER—†Nauss, L. B. & Sons
 GREENFIELD—†Franklin County Lumber Co.

HAVERHILL—†Chase, D. D. Lumber Co.
 †McGratty & Wheeler, 44 Main
 HINGHAM—Whitney, E. E.
 HOLYOKE—*Ely Lumber Co.
 *Merrick Lumber Co., nr B. & M. M. R.
 R. freight depot
 *Ranger, Casper, 10 Bond
 HUDSON—†Robertson & Larkin
 HYANNIS—Sears, J. K. & B. & Co.
 HYDE PARK—*Hodgkinson, J. & Son
 LAWRENCE—*Briggs & Allyn Mfg. Co., 20
 †Dillon, John, 100 B'way Winter
 †Lawrence Lumber Co., 616 Essex
 LOWELL—†Bennett, J. C. Co., 564 Middlesex
 *Pratt, Amasa Co., 766 Dutton
 LYNN—*Brockway-Smith Corp'n, 117 Pleas-
 †Hutchinson Lumber Co., Broad c Wash'n
 *Marshall Co., 149 Pleasant
 MALDEN—†Kaulbach, W. S.
 †Malden City Lumber Co.
 MARBLEHEAD—*Bowden, T. J. & Son.
 MARLBORO—†Elliott Lumber Co., 128 Lincoln
 †Howe Lumber Co.
 MIDDLEBORO—†Sears, J. K. & B. Co.
 NATICK—†Fiske & Co.
 †Parlin, W. D.
 NEW BEDFORD—*Allen, A. W. Co., 193 N
 *Blossom Bros., 172 N Water Water
 *Greene & Wood
 †Nicholson, John G.
 †Sherman, James L.
 NEWBURYPORT—†Cutter, F. E. & Son, 48
 NORTH ADAMS—*Dibble (The), S. B. Lumber
 NORTHAMPTON—†Merrick Lumber Co., Mer-
 PITTSFIELD—†Berkshire Lumber Co.
 †Butler, James H. Lumber Co.
 †Ferry, O. S. & Sons
 †Ward, Z. A. Woodworking Co., Centre c
 PLYMOUTH—†Atwood, E. B. West
 †Robbins, L. T.
 PROVINCETOWN—†Dyer, B. H. & Co.
 SOMERVILLE—†Davenport-Brown Co.
 †Rice, W. P.
 SOUTHBRIDGE—*Clemence, J. M. & L. D.
 SOUTH HADLEY—*Howard, Gaylord & Co.
 SOUTH HADLEY FALLS—†Street Lumber Co.
 SPRINGFIELD—†Decker, E. S. Lumber Co.
 *Hampton Lumber Co.
 *Walker, T. M. & Co.
 TAUNTON—†Sanders, C. V. & Co., 68 Weir
 *Williams, A. G. & Co., 62 Weir
 TURNERS FALLS—†Bartlett, Joseph F.
 WALTHAM—†Higgins, J. A.
 †Richardson, E. M.
 WAREHAM—†Grifford, Prince
 WATERTOWN—†Sanger, Geo. C.
 WEBSTER—†Pattison, Louis E.
 WESTFIELD—*Boyle, John E.
 †Merrick Lumber Co., 280 Elm
 WILLIAMSTOWN—†Waterman & Moore
 WORCESTER—†Adams & Powers, 171 Union
 †Baker Lumber Co., 82 Foster
 †Clark, L. C. Co.
 Stevens, F. O., 144 Union

MICHIGAN.

ALBION—†Wilder, S. A. & Son
 ALMA—*Tinker & Hannah.
 ALPENA—*Gebhardt, Morrow & Co.
 ANN ARBOR—*Luick Bros.
 BATTLE CREEK—†Haak, H. K.
 *Knight & Sons
 †North & Strong
 *Rathbun & Kraft Lumber Co., Ltd.
 BAY CITY—*Lamont, Matthew
 *Lewis Mfg. Co.
 BELLEVUE—†Mulvany, Fred M.
 BENTON HARBOR—†McDonald, James
 BIG RAPIDS—*Big Rapids Door & Blind Co.
 *Jones & Green
 BRIGHTON—†Hyne, F. T.
 CADILLAC—Cadillac Lumber Co., Haynes
 CALUMET—*Armstrong-Thielman Bros.
 CHARLEVOIX—*Charlevoix Lumber Co.
 CHARLOTTE—†Webster, Cobb & Co.
 CHEYBOYGAN—*Cheyboygan Mfg. Co.
 COLDWATER—*Ball Bros.
 †Pollock, S. & Son
 DETROIT—*Beyster, John, 875 W Fort
 *De Man Bros., Trumbull av c Cherry
 †Frohlich, Edw. Glass Co., 52 Larned, W
 *Hertz & Hosbach Co., 4th and Holden
 †Houston, Jas. D., 446 17th
 *Huebner Mfg. Co., 236 E. Fort
 *Hurd, W. F. & Co., 200 Campbell av
 *Japes, Frank Co., 8th & Plum
 *Kotcher, C. W., cor Gratiot & St. Aubin

*Lowrie & Robinson, Leavitt & Junction
 *Munroe, Wm. Co., 1000 Scotten av
 *Nicholson Mfg. Co., 456 Brooklyn av
 *Sibley, F. M. Lumber Co., Kercheval av
 & M. C. R. R. Belt Line
 *Weber, J. F. & Co., 300 Gratiot av
 ELSIE—†Wooley, J. B. & Sons
 ESCANABA—*Williams, Nick
 FLINT—*Hearsch & Atwood
 †Randall Lumber & Coal Co.
 GRAND RAPIDS—*Dupree, John & Co., 329
 *Fuller & Rice Lbr. & Mfg. Co., 11 E
 *Letellier, F. & Co., 222 Canal Bridge
 *Ocker & Ford Mfg. Co., Court & G. R.
 *Stiles Bros., 1st av, c M. C. R. R.
 GREENVILLE—†Belknap & Son
 †Foster, J. J. Lumber Co.
 HANCOCK—†Stringer, Jas. S.
 *Strong, Geo. F.
 HAREOR BEACH—*Wellock, George & Son
 HOLLAND—*Kleyn Lumber Co.
 HOUGHTON—*Pryor, James & Son
 HUBBARDSTON—*Bennett, Chas. K.
 IONIA—†Williams, Gregg
 IRON MOUNTAIN—†City Lumber Yard
 †Laing, H. H. & Co.
 IRONWOOD—†Williams, E. B.
 JACKSON—*Doig, D. J., 431 N Jackson
 †Lathrap, C. O., 258 Michigan av
 KALAMAZOO—*Dewling & Sons, 42 N Jackson
 *North & Coon Lumber Co.
 North & Coon Lumber Co.
 LANSING—*Lansing Veneered Door Co.
 *Riker Lumber Co.
 LAPEER—*King, Robert Lumber Co.
 *Tuttle & Burritt
 LAURIUM—*Bray, N. S.
 LOWELL—*Ecker, Frank R.
 LUDINGTON—†Cartier-Magmar Co.
 *Widmark, H. P. & Son
 MANISTIQUE—*Weston Lumber Co.
 MARCELLUS—*Hoover, H. J.
 MARINE CITY—†Zimmerman Bros.
 MARQUETTE—*Read, F. W. & Co.
 MARYSVILLE—*Mills, N. & B.
 MENOMONEE—†Gibout, L. E.
 *Karthaiser, Frank
 MILFORD—*Byrne, P.
 MONROE—†Beck, O. F. & Son Co.
 MOUNT CLEMENS—*Hubart & Schott Co.
 MUSKEGON—*Gray Mfg. Co.
 *Langland Mfg. Co.
 NADEAU—*Jean, Augustine
 OLIVET—†Webster, Cobb & Co.
 OWOSSO—†Sturtevant & Blood
 PAW PAW—*Free & Morrison
 PORT HURON—†Boyce Hardware Co.
 *General Mfg. Co.
 *Home Mfg. Co.
 †Sperry, J. B.
 †Sturmer, Charles A.
 †Taylor, C. F.
 QUINCY—*Salisbury, J. N.
 SAGINAW—*Avery & Co., 309 Hayden
 *Bliss & Van Auker, 1101 S Niagara
 *Booth & Boyd Lumber Co., Holden & Baum
 *Hardin, D. Co., 605 S Niagara, W S
 †Jackson, Thos. & Co., 2019 S Michigan av
 *Mershon, Schuette, Parker & Co. (Whole-
 sale Mfrs.)
 *White, Albert C., S Jeff & Euclid av
 ST. CLAIR—*Mills, N. & B.
 ST. JOSEPH—†Wallace, Jno. & Sons
 SALINE—*Parsons, Orrin
 SAULT SAINT MARIE—*Lock City Mfg. Co.
 SEBEWAING—*Sebewaing Lumber & Mfg.
 SHELBY—†McKinnon, A. R.
 †Rankin, A. J.
 †Spellman, S. & Co.
 SPRINGPORT—†Hoag, R. B. & Son
 STANTON—†Pierson, John W. & Co.
 TECUMSEH—*Lenawee Lumber Co.
 TRAVERSE CITY—*Grellick, J. E. Co.
 †South Side Lumber Co.
 UTICA—*Hollister & Reed
 VASSAR—†Pinkerton, D. B.
 VICKSBURG—*Clapp Bros.
 WALDRON—*Abbaduska & Son
 †Gish, Charles M.
 WAYNE—†Wallace, J. B.
 WYANDOTTE—*Lehr Lumber Co.
 YPSILANTI—†Fuller, George & Son
 †Webster, Cobb & Co.

**When writing to firms listed
 in this book please mention
 HENDRICKS'
 COMMERCIAL REGISTER**

MINNESOTA.

ADRIAN—†Shull, J. & W. C.
BLOOMING PRAIRIE—†Solberg, A. Lumber Co.
CLOQUET—†Cloquet Lumber Co.
†Fish, L. A. & Co.
†Loisel, Jos.
*Northern Lumber Co.
DULUTH—†Duluth Lumber Co.
*Ouellette & Baxter Co.
*Scott-Graff Lumber Co.
*Wallinder, E. G.
FERGUS FALLS—†Fergus Mfg. Co.
*Fergus Sash & Door Co.
FRANKLIN—†Hauser Lumber Co.
MANKATO—†Mankato Interior Mfg. & Lbr. Co.
MELROSE—†Richmond, E. C.
MINNEAPOLIS—†Bardwell - Robinson Co., 24th av & 2d

*Carlson, Aaron, 15th av nr Central av
*City Sash & Door Co., 230 S 4th
*Curtis & Yale Co. Lumber Exchange
†Eddy Sash & Door Co., 125 2d, N E
*Fulton & Libbey Co., 1428 N 2d
*Joannin-Hansen Co., 2308 N 2d
*Johnson, H. S. & Co., 18th av c Marshall
*Johnson, Smith & Co., Washington & University av, S E
†Johnson, W. W. Lumber Co., 220 Lumber Exch. bldg
†McDonald, John F. Lumber Co., Lumber Exch. bldg
*Minneapolis Sash & Door Co., 1018 Central av
*Noitmier, Bintner & Co., 213 S 8th
†North Side Lumber, Sash & Door Co., 214 19th av, N
*Simonson Bros. Mfg. Co., 1713 S 7th
*Smith & Wyman, 2d av & 8th
†Stewart, Carl L. Lumber Co., New York Life bldg
*Waterman-Hunter Co., 515 1st av N E
*Wilcox, J. F., 1030 Marshall

MORRIS—†Jones, Edw. J.
RED WING—†Betcher, Chas. Lumber Co.
ROCHESTER—†Dodge, W. H.
ST. CLOUD—†Raymond & Dunnewald Mfg. Co.
*Wright & Smart
ST. PAUL—†Abbott Mfg. Co., 294 E 6th
†Berglund Lumber Co., Kittson c 7th
*Bohn Mfg. Co. Arcade c Welis
*Brooks Bros., 1923 W University av
†Gribben Lumber Co., 194 E 7th
†Hardwood Door Co., 180 W 4th
†Lamb Lumber Co., 160 W 5th
*Osgood, Blodgett Mfg. Co., Duluth av,
*St. Croix Mfg. Co., 85 E 4th n E 7th
*St. Croix Sash & Door Co., Nat'l Germ. Am. Bk. Bldg
*St. Paul Sash, Door & Lumber Co., 319 Race

SAUK CENTER—†Ingram Lumber Co.
STILLWATER—†St. Croix Lumber Co.
*St. Croix Mfg. Co.
*Stillwater Mfg. Co.
THIEF RIVER FALLS—†Thief River Falls Lumber Co.
WARREN—†Robertson Lumber Co.
†St. Hilare Lumber Co.
WINONA—†Empire Lumber Co.
†Laird, Norton Co.
*Schroth & Ahrens Co.
†Union Lumber Co.
†Winona Lumber Co.

MISSISSIPPI.

BILOXI—†Rosell, T. J. Mfg. Co.
CORINTH—†Pocahontas Lumber Co.
GREENVILLE—†Harty, J. J.
†Neal, Wm. H.
JACKSON—†Enoch's Lumber & Mfg. Co.
†Jackson Lumber Co.
MERIDIAN—†Bostick, T. J. & Sons
NATCHEZ—†Hill Lbr. & Mfg. Co.
VICKSBURG—†Curphey & Mundy
†Mississippi Lumber Co.
*Spengler, A. & S.

MISSOURI.

BOWLING GREEN—†La Crosse Lumber Co.
BUTLER—†Logan, Moore Lumber Co.
Wyatt, H. C. & Son
CALIFORNIA—†Mengel, W. H.
CANTON—Canton Planing Mill Co.
CAPE GIRARDEAU—†Jones & Bohle
*Rees Bros. Mfg. Co.
CARTHAGE—†Harrison, J. F.
†Home Lumber Co.
†Thomas, B. F.
EXCELSIOR SPRINGS—†Chicago Lumber Co.
†Rice, S. R.

FARMINGTON—†Doughty, D. J.
†Lang & Bro.
†Tetley-Klein Lumber Co.
FREDERICKTOWN—†Fredericktown Lumber Co.
GLASGOW—†Hagerdorn, D.
*Rail Bros.
HANNIBAL—Conlon, John R.
*Hannibal Door & Sash Co.
*Meyer, J. F. & Co.
JACKSON—†Caldwell, H. L.
JEFFERSON CITY—†Wallau, Henry J.
JOPLIN—†Joplin Sash & Door Co.
†Miller, L. F.
†Stewart Bros.

KANSAS CITY—†American Sash & Door Co. (Wholesale Mfrs.), 16th & Bellefontaine
*Armourdale Lumber Co., Kansas av c Brent
†Badger Lumber Co., 303 Postal Tel. bldg
†Belt Line Lumber Co., Vine c 20th
*Broadway Mfg. Co., Postal Tel. bldg
†Bruce Lumber Co., 20th & Grand av
†Byrne, J. M. Lumber Co., 20th & Wyandotte

Clark & Bates Lumber Co., Indiana av & 17th
†Creel, T. C. Lumber Co., 5th c Central
*Davis-Page Planing Mill Co., 1817 Balt. av
†Dearoff, F. M., Dwight bldg
†Deatherage Lumber Co., 1065 W 8th
†Dierks Lumber & Coal Co., Dwight bldg
†Dierks & Sons Lumber Co., 1601 McGee
†Foster Lumber Co., 1501 N 5th
*Kansas City Planing Mill Works, 3419 E
†Lee & Lyman, 18th & Wabash av 15th
*Libbey & Fulton Co., Penn & 24th
*Louisiana Central Lumber Co., K. & P. bldg

†Louisiana & Texas Lumber Co., K. & P. bldg
*Lovejoy, G. W., 1335 Main bldg
†Merrill, J. W., S. W. Boul & Summit
*Roach & Kienzie Sash & Door Co., 16th & Bellefontaine
Schmidt & Wible Mercantile Co., 1219
†Shutte, S. Z., 25th c Grand McGee
*Western Sash & Door Co., Grand av & 23d

LEBANON—†Lingsweller, J. G.
LOCKWOOD—†Eatou, W. R. & Co.
LOUISIANA—†La Crosse Lumber Co.
MARCELINE—†Pancoast, L. E.
MARYVILLE—†McNeal-Parcher Lumber Co.
MOBERLY—†Mounce, D. H. & Co.
NEOSHO—†Neosho Planing Mill Co.
NEVADA—†Robinson, J. B. & Son
PALMYRA—†Noble, G. A.
RICHLAND—†Lingsweller, Edw.
ST. JOSEPH—†American Sash & Door Co.
†Badger Lumber Co., 6th & Penn
†Biles, N. D. L. & Co., 1422 S 6th
†Dougherty & Moss Lumber Co., 10th & Mitchell
†Early, T. R. & Co., Pryor c Arizona av
†Fullerton Lumber Co., 802 S 8th
*Huttig-Moss Mfg. Co., 4th, cor Mitchell av

†Nold, Chas. H. Lumber Co., 1212 N 4th
†St. Joseph Lumber Co., 1401 Frederick av
ST. LOUIS—†Broadway Planing Mills, 3300 N B'way

*Blunk Bros. Planing Mill Co., 2800 Dodier
Carondelet Planing Mill Co., 501 W Davis
*Cole & Glass Mfg. Co., 16th & Spruce
*Crescent Planing Mill Co., 3227 N 9th
De Hodiament Planing Mill Co., 6101 Minerva av

Fathman & Miller Planing Mill Co., 1060 Old Manchester rd

*Fox Bros. Mfg. Co., c Ohio av & Sidney
*Frye, Wm. G. Mfg. Co., 1502 Market
†Ganahl, John J. Lumber Co., 2d c Park av
*Ganahl Planing Mill & Mfg. Co., Kosciusko & Gever av
*Gaus, Henry & Sons Mfg. Co., 2130 N Main

Gravois Planing Mill Co., Juniata & Gravois av

Great Western Planing Mill Co., 400 St. George

*Hafner Mfg. Co., Main & Dock
*Huttig Sash & Door Co., 1206 Manchester rd

Imse-Schilling Sash & Door Co., Papin c 21st

*Kuenzel, A. Mfg. Co., 2716 S 3d
Lecouter Bros. Stair Mfg. Co., 3015 Sallena boul, cor Mo. Pac. Ry.

Lohse Patent Door Co., King's Highway boul

*Mechanics' Planing Mill Co., 3746 N B'way

*Olcott, Chas. A. Planing Mill Co., 3300 Phoenix Planing Mill Co., c 12th & Spruce

*Riddle, Rehbein Mfg. Co., 13th & O'Fallon

*St. Louis Mfg. Co., 1523 N 13th
*St. Louis Sash & Door Works (Wholesale), Dock & Main

*Schaerff & Pfau, Kosciusko, n Geyer

Simplex Revolving Sash Co., 319 N 4th
*Theiling-Lothmann Mfg. Co., 3810 N 9th
Thomsen Planing Mill Co., 1700 Old Manchester rd
Thuener, Chas. Planing Mill Co., Prairie av, s w c Lucky
Tower Grove Planing Mill Co., 1321 Kentucky av
Wabash Wood Working Co., 601 S Newstead av

SPRINGFIELD—†Campbell Lumber Co.
*Davis Planing Mill Co.
†Garrett, W. L.
†Hatten Lumber & Supply Co.
†Hummel Lumber Co.
*Springfield Planing Mill & Lumber Co.

MONTANA.

ANACONDA—†Anaconda Copper Mining Co.
BILLINGS—†Billings Lumber Co.
BUTTE—†Big Blackfoot Milling Co.
Carroll, J. T. Lbr. Co.
Western Lumber Co.
GREAT FALLS—†Holter Lbr. Co.
KALISPELL—†KalisPELL Lumber Co.
*McMannamy, Wm. P.
MISSOULA—†Missoula Lumber Co.
RED LODGE—†Bowlen, Chas. C.

NEBRASKA.

BEATRICE—†Beatrice Planing Mill Co.
*Thistlewait Bros.
KEARNEY—†Gilchrist, F. H. Lumber Co.
†Seeley, C. S.
LINCOLN—†Curtis & Bartlett Co.
Searle & Chapin Lumber Co., 737 N
Trester Lumber, Coal & Ice Co., 103 S 11th
NEBRASKA CITY—†Erwin, Ellis, 205 S 4th
OMAHA—†Adams & Kelly Co., 1529 Sherman av
*Bloom, Alfred Co., 1502 California av
†Bullard, Hoagland & Benedict, Izard c 20th
†Cady, H. F. Lumber Co., Douglas c 6th
*Chicago Lumber Co. (of Omaha), 814 S 14th

†Dietz, C. N. Lumber Co., 1214 Farnam
*Disbrow, M. A. & Co., 1201 Nicholas
†Guiou & Ledwich, 1024 N 18th
†Hampton Lumber Co., 1242 S 16th
†Hoagland, G. A., 9th & Douglas
Omaha Wood Working Co., 1029 S 18th
*Rosenberry, A., 1501 Marcy
†Wagner & Buchanan, 23d & Paul
†Wells Lumber & Coal Co., 1501 Military
†Wentworth, Lew, Paxton bik
SOUTH OMAHA—†Bradford, Louis Lumber Co.
†Howland, E. H. Lumber & Coal Co.
†Watkins, J. B. & Co.

NEVADA.

GOLDFIELD—†Blair, C. C.
RENO—†Reno Mill & Lumber Co.
VERDI—†Verdi Lumber Co.

NEW HAMPSHIRE.

BERLIN—†McGivney, W. L.
BRISTOL—†Wells, B. I. & A.
CENTER OSSISPEE—†Smart, C. H.
CONCORD—†Carpenter, Wellington, 7 Bridge
†Drake, Clifton W.
†Mead, Mason & Co.
DOVER—†Foss, D. & Son
EPSON—†Marden, Freeman
FARMINGTON—†Mooney, Frank E.
FRANKLIN—†Putney, N. J.
FRANKLIN FALLS—†Glines & Stephens Bros.
GOFFSTOWN—†Kendall, Hadley & Co.
KEENE—†Nims, Whitney & Co.
†Thayer & Collins
LAACONIA—†Cook's Lumber Co.
LAKEPORT—†Boulia, Gorrelli Co.
LANCASTER—†Smith, Frank & Co.
*Thompson Mfg. Co.
LEBANON—†Mason, J. S. & Co.
*Speucer Bros.
LITTLETON—†Burnham, Henry B.
†Littleton Lumber Co.
MANCHESTER—†Derryfield Co.
†Head & Dowst Co., 97 Granite
*Hodge, J.
†Hubbard, Wm. F. (Est. of)
MARLBORO DEPOT—†Sherman Bros.
MEREDITH—†Clark, Geo. H. & Co.
MILFORD—†Pierce, W. E. & Co.
†Smith, C. H. V.
NASHUA—†Gregg & Son
*Roby & Swart Mfg. Co.
†Otis, B. B. Co.

PENACOOK—*Rolf, C. M. & A. W.
PLYMOUTH—†Smith, Jared A.
PORTSMOUTH—†Cole C. Fred'k
ROCHESTER—†Rochester Lumber Co.
SPOFFORD—*Hamilton, Geo. L.

NEW JERSEY.

ARLINGTON—*Blauvelt, I. H. Co., Elm c Columbia av
ASBURY PARK—Asbury Park Mill
Buchanan & Smock Lumber Co.
ATLANTOC CITY—*Somers Lumber Co.
BAYONNE—†Booth, A. W. & Bros., Orient & Linnett
†Doyle, William
BOGATA—(See Hackensack)
BOONTON—*Todd, S. C.
BRIDGETON—*Loper, Ell & Son
BURLINGTON—*Severns, J. T. Sons & Co.
CAMDEN—*Coles, C. B. & Sons Co., Front bel Kaighn av
†Cooper, Wm. J. & Co., 221 Kaighn av
†Fredericks, Wm. H., 122 Arch
ELIZABETH—*Buttler, H. V. & Co.
†Heidritter, F. L. & A.
FREEHOLD—†Reid, Leonard G., Spring nr
FRENCHTOWN—†White, Charles B'way
HACKENSACK—†Young, Frank
HAMMONTON—†Bernhouse, Wm. H.
HOBOKEN—*Gahagan's, J. Sons, 217 Adams
*Hall, Perry E., 511 Newark
†Kortlang, H.
HOMESTEAD—Hollingshead, D. R. (Est. of)
JERSEY CITY—*Barnes Mfg. Co., West Side av and D. L. & W. R. R.
†Engler, Chas. H., Kearny av nr West Side
†Heller, Chas., 49 Cambridge av
*Prospect Sash & Door Co., 135 Palisade
*Schulz, T. Sash & Door Co., 467 Pacific av
*Woodhouse & Co., 1 Bishop
†Woodstock Co., West Side av nr St. Paul's av
KEARNY—(See Arlington)
MADISON—†Smith, J. M. Co.
MANASQUAN—†Taylor, W. P.
MATAWAN—†Bailey, Wm. D.
MILLVILLE—*Kimball, Prince & Co.
MOORESTOWN—†Collins, John S. & Son
MORRISTOWN—†Ennis, C. W. & Co.
†Mills, Geo. A. Wood Working Co.
MOUNT HOLLY—†Ewan, Josiah W.
NEWARK—*Bailey, Wm. F., ft Clay
*Barkhorn, Wm. H., 22 Sayre
†Bischoff, William, 501 Bergen
*Craig, J. R. & Co., 131 N. J. R. R. av
*Empire Sash & Door Co., 228 W Kinney
†Glasby Lumber Co., 11 Badger av
†Goldingay, Charles, 88 E Kinney
*Hatt, J. William, 135 Halsey
*Maull, G. F., 780 S 18th
*Newark Door Co., 56 Duryea
*Paxton, Cornelius, 128 Wakeman av
*Russell, W. P., 40 Lawrence
*Schill, Fred'k & Co., 102 Charlton
*Schrafft, A. Moulding Co., Bruen & Hamilton
*Wightmann & Bro., 314 Mt. Pleasant av
NEW BRUNSWICK—*Buttler, H. V. & Co.
ORANGE—*Barber, Chas. L., 112 Railroad av
*Romine, Jacob K. & Son, 21 Reock
PASSAIC—†Crane, Floyd H.
PATERSON—*Florance Bros. Mfg. Co.
†Graham, Jos. R. (Est. of), 425 Grand
†Jackson-Bergen Co., Clay c Railroad av
PERTH AMBOY—†Farrington Co.
PLAINFIELD—†Burdick, Jesse G.
*McCullough, Richard H.
RED BANK—*Waters & Osborn
RUTHERFORD—*Soley, Chas. R. Co.
SALEM—*Bell, W. W. & Co.
SOUTH SEAVILLE—Collins, J. P.
TRENTON—*Conner Millwork Co.
*Leuckel, A. K. & Co.
VINELAND—*Kimball, Prince & Co.
†Pixley, Albert B.
WASHINGTON—*Allegier's, E. W. Son
†Gulick, Walter D.
WESTFIELD—†Tuttle Bros.
WOODBURY—Woodbury Mill & Lumber Co.

NEW MEXICO.

ALBUQUERQUE—†Baldridge, J. O.
LAS VEGAS—*Sundt, M. M.
SANTA FE—†Dudrow, C. W.
*Hesch, Philip, Sr.

NEW YORK.

ADAMS CENTER—*Green, O. D., Jr.
ADDISON—*Park, Winton & True
ALBANY—*Blakeslee Lumber Co., 981 B'way
*Bradstreet, Wm. H., 165 S Pearl
*Burton, Wm. H. Co., cor N Lansing & Center

*Stephens, Thomas & Sons, 277 Lark
ALBION—*Mallory, C. M.
ALLEGANY—*Hall Bros.
AMSTERDAM—*Brookside Lumber Co.
ANTWERP—†Bethel, John G.
ARCADE—Arcade Planing Mill Co.
AUBURN—*Carr, Frank J.
Everts Hardware Co.
†Pomeroy, T. M. & Co.
BARKER—†Lum, L. C.
BATAVIA—*Batavia & N. Y. Woodworking Co.
BATH—*Beekman Sash, Door & Woodworking Co.
BERGEN—*Church, G. H.
*Stannard, C. A.
BINGHAMTON—*Bartlett & Co.
†Ensign Lumber Co., arvis nr E. R. R.
†Middlebrook, C. D. & Son, 226 State
*Roberson, Alonzo & Son
BOONVILLE—†Rice, C. F.
BREWSTER—*Hubbell, Geo. B.
BROOKLYN—(See New York City, Borough of Brooklyn)
BUFFALO—*Boller, Chas. & Sons Chicago c Carroll
Builders' Planing Mill Co., 187 Michigan
*Churchyard, Jos. J., 650 Clinton
*Dohn, Fischer & Beyer, 1340 Niagara
*Elias, G. & Bro., 965 Elk
*Feist, John & Sons Co., 111 Ash
*Flierl, Christian, 1356 Genesee
*Hager, E. M. & Sons Co., 141 Elm
*Henrich's, Wm. Sons, 193 Spring
Hogg, Wm., 257 Pearl
*Iroquois Door Co., Exchange & Larkin
*Koch, W. F., 121 Davey
*Metz, Jos. & Sons, 292 Elm
*Montgomery Bros. & Co. (Inc.), Court & Wilkeson
†Whissel Lumber Co., 1079 Clinton
†Smith-Blanchard Lumber Co., 1035 Fillmore
†Zeis, M. & Sons, 200 Cherry av
CANAJOHARIE—†Smith, M. L. Lumber Co.
CANANDAIGUA—†Thompson, George T.
CANTON—†Rushton, J. W.
CARTHAGE—†Carthage Lumber Co.
†Vrooman & Co.
CATSKILL—†Lampman, Wm. E.
CAZENOVIA—*Thayer, T. W. Co.
CHAMPLAIN—†Earl, Jno.
CHERRY VALLEY—†Wales, Robert & Son
CLINTON—†Cauldwell, G. J.
†Coleman, E. G.
COBLESKILL—†Courtier, Stanton
COHOES—*Breault, Medard Co.
*Griffin, A. J. & Son
COLB BROOK—†Rhodes & Connor
COLLIERSVILLE—*Fox, F. M.
COPENHAGEN—†Cary, James
CORNING—*Corning Building Co.
CORNWALL LANDING—†Taft-Howell Co.
CORTLAND—†Benton, H. F. Lumber Co.
CROGHAN—†Virkler, Emanuel
CROWN POINT—†Bly, N.
*Pond, J. E. & Son
DANSVILLE—*Fisk Bros.
DEPOSIT—†Kerr, F. M.
DEXTER—†Bininger, Hy.
†Leonard & Gilmore Co.
DUNKIRK—†Atlas Builders' Supply Co.
*O'Donnell, M. J. & Co.
*Madigan & Co.
EARLVILLE—†Todd & Gurney
EAST AURORA—*Peek, S. H.
EDMESTON—†Ackerman, E. L.
ELLENVILLE—†Bailey & Deyo
ELMIRA—*Doane & Jones Lumber Co.
*Elmira Sash, Door & Blind Co.
*Spaulding, H. C. Co.
FALCONER—*Chautauqua Planing Mill Co.
FREDONIA—*Edmonds, R.
FRIENDSHIP—*Empire Sash & Door Co.
FULTONVILLE—†Mohawk Valley Lumber Co.
GENEVA—†Moore, Daniel E.
†Rogers, R. J. Lumber Co.
GLENS FALLS—*Kendrick & Brown
GLOVERSVILLE—†Burr Bros.
†Holden, Charles J.
†Holmes, R. E.
GOUVERNEUR—†Carpenter, J. H.
*Van Duzee, S. B. Mfg. Co.
GOWANDA—*Forbush Planing Mill Co.
GRANVILLE—†Potter, Fred.
GREENE—†Lyon Iron Works
GREEN ISLAND—*Crampton & Belden
GREENPORT—†Corwin, C. L.
HAMBURG—Hamburg Planing Mill Co.
HEMPSTEAD—†Plyer, Wm. & Co.
HICKSVILLE—*Voight, C. H.
HOLLAND—*Holland Planing Mill Co.
HOLLEY—†Cole, N. L.
HOOSICK FALLS—*†Easton, Rising & Worden
HORNELLVILLE—*McConnell Mfg. Co.
HORSEHEADS—*Tuttle, W. E.
HUDSON—Traver, W. H. & Son

ITHACA—†Dixon & Robinson
†Rumsey, C. J. & Co.
†Treman, King & Co.
JAMAICA—(See New York City, Borough of Queens)
JAMESTOWN—*Watson Mfg. Co.
*Wilson, John T.
JOHNSTOWN—†Stephenson, L.
*Youngglove, James I.
KEESVILLE—†Prescott, R. & Son
KINGSTON—*Coutant, A. K., North c Strand
†Mauterstock, Albert, 109 B'way
*Palen's, Henry W. Sons
*Traphagen & Hull Mfg. Co.
†Turck, W. J. Co., 75 E Strand
†Weeks, Theo., 70 Furnace
LANCASTER—*Knauber, Mrs. M. A.
†Weill, J. C.
LANSINGBURG—*Madden Lumber Co.
LAWRENCE—*Wood, John A. & Son
LEROY—*Lapp Bros.
*Rogers, F. C.
LESTERSHIRE—*Lestershire Lumber & Box
LIBERTY—†Edmonds, Wm. F. Co.
LITTLE FALLS—†Little, Andrew
LIVINGSTON MANOR—†Woolsey, P. H. Co.
LOCKPORT—†Clifford, Jas. & Bro.
†Heary & McGrath
*McDonough, Mrs. John
†Murphy Bros.
*Whalen, Jos.
LONG ISLAND CITY—(See New York City, Borough of Queens)
LYONS—†Sloan Bros.
MALONE—†Kelly, Jno.
MAMARONECK—†Brewer, R. G.
MATTEWAN—†Forrestal, Jas.
MECHANICSVILLE—*Orcutt & Porter Co. (Doors Only)
MIDDLE GRANVILLE—Allen, G. Myron
MIDDLEPORT—*Rowley & Eddy
MIDDLETOWN—†Gordon & Gould
MILLERTON—†Beers & Trafford
MONTICELLO—†Allen, Wm. C.
†Smith, Isaac O.
MOORE—*Knapp, C. L. & Son
MOUNT KISCO—†Turner, Jerry B.
†Young, Halstead & Co.
MOUNT VERNON—*Burton & Fenton
†Cronenberg, L. & Sons
*Hartman Bros. Mfg. Co.
†Weiss, Charles H.
†Wilson & Adams Co.
NEWARK—†Keener, S. N.
NEWBURGH—†Newburgh Lumber Co., 215 B'way
Newburgh Planing Mill Co., c Johnes & S William
NEW ROCHELLE—Mahlstedt, J. A. Lumber & Coal Co.
New Rochelle Coal & Lumber Co.

NEW YORK CITY. Borough of Brooklyn.

BROOKLYN—†Bay Side Sash & Door Co., 763
†Bossert, Louis & Son, 1335 Grand 3d av
†Brooklyn Fireproof Sash & Door Co., 97 Richardson
Brooklyn Lumber Co. (Wholesale Dealers), 458 Hamilton av
†Creveling, Jno. C., 3263 Atlantic av
*Cropsey & Mitchell, Cropsey av & Bay 35th
Cumming's, R. Sons, Junius, c Pitkin av
†Curtis Bros. Lumber Co., Liberty av c Vansinderen av
†Entenmann, A., Bay Ridge
†Feldman & Weinstein, 675 Manhattan av
†Gardner, David P., 49 Fleet pl
†Gass, John H. Co., 601 Sackett
†Gerard, G. H. Son & Co., 257 Greenpoint
Goldman & Parkin, 571 Watkins av
†Gau, Richard, 63 Eagle
†Gau & Levy, 48 Walworth
†Hall, Wm. H., 1760 Fulton & 715 Herkimer town
†Hardy, Voorhees & Co., Met. av & New town
†Hawkins, Geo. A. & Co., 44 Court
†Heinemann, Offenber & Son, 77 Wallabout Creek
†Hitchings, Ben G., E 34th nr Av H
†Keshin, Blitstein & Co., 250 Moore
Kohart, Frank C., 311 Kingsland av
Kronenberg, M. Son, 126 Osborn
†Levin & Kronenberg, Belmont av
†Lindsley, Abt. B., 602 Degraw
*Lippett & McCormack, 8th c 2d av
†Lockard & Blake, 371 Fulton
*Loomis, John S. Co., Baltic & Nevins
†McCadden, Michael, 537 18th
†Macauley, C. R., 627 5th av
†Manhattan Sash & Door Co., c Pitkin & Van Sinderen av

†Mayer, Michael, 181 Moore
 *Meisel, Danowitz & Co., 55 Eckford
 †Morganthaler, Jacob, 663 Sackett
 National Fireproof Sash & Door Co., 250
 †Newton, Albro J. Co., 528 Union Moore
 New York Specialty Works, 252 Java
 †Nolte, Wm. H. (Est. of), 13 McKibbin
 †Orr, J. C. & Co., West
 †Stanley & Unckles, 292 Butler
 †White, Wm. H., 48 Walworth

Boroughs of Manhattan & Bronx

NEW YORK—Alignum Fireproof Co., 304 E 98th
 *Anderson & Co., 484 E 139th
 †Appel, Chas., 196 Lafayette
 Batavia & N. Y. Wood Working Co., Fuller bldg
 †Bayer-Catton Co., 194 Lewis
 †Bird, W. D., 42 W 67th
 †Blanchard, J. F. Co., Fuller bldg
 Bronx Woodworking Co., 1044 Westchester
 †Bronx Sash & Door Co., 100 Adams av
 †Burdick, Isaac N., 138 Wooster
 †Carl, John H., 514 1st av
 Central Fireproof Door & Sash Co., 4077 Park av
 *Chautauqua Planing Mill Co., 5 Beekman
 †Cole, G. N., 277 B'way
 *Eaton & Anderson, Bedford pk
 Empire City Wood Working Co., B'way & W 131st
 †Finn, Chas. F., 233 Canal
 Forbes, Jas. C., Classon av nr W Farms rd
 *Hampden Lumber Co. (of Springfield, Mass.), 1123 B'way
 Harlem River Lumber & Wood Working Co., E 138th & Gerard av
 Harlem Sash & Glass Co., 504 W 133d
 *Haynes & Coryell, S Boulevard & 179th
 †Henderson, Wm., 1125 B'way
 †Hogan & Digenno, 49 E 135th
 †Howell & Lawrence, 1788 1st av
 †Killough, Robert & Co., 500 5th av
 †Kirchner, August, 157 E 128th
 †Kohart, Frank C., 21 Park row
 †Leslie, John, 158 Prince
 †Lyman, John T., 150 Nassau
 McConnell Mfg. Co., 160 5th av
 †McFarland, J. C. & Co., 253 B'way
 †McKenzie, Wm. U., 4218 Park av
 †McLaughlin, John F., 148 E 49th
 Markus, J. Woodworking Co., Station pl nr Gun Hill rd, Williamsbridge
 †Marx & Jacobsen, Tompkins & Delancey
 †Miner, Jas. O., 1123 B'way
 †More, M. E. & Co., 489 5th av
 Mott Haven Trim Mill, 486 E 139th
 *Murray & Hill Co., 617 W 130th
 †Nesbit, D. M. Co., 116 Nassau
 Niagara Wood Working Co., 159 E 88th
 *O'Neill, Michael F., 490 E 139th
 †Palens', H. W. Sons, Fuller bldg
 †Pritchard, E. M. & Son Co., 138th & Mott av
 †Prudovsky, B., 803 E 5th
 †Purrlington, Geo. F., 424 E 123d
 †Ratzkin & Berman, 820 5th
 †Read, Charles, 406 W 30th
 †Reynolds, Charles E., 327 E 63d
 †Richardson & Dutt, 789 3d av & 122 Elm
 †Schaettler, F. (Est. of), 533 W 34th
 †Short, Thos. J., 278 9th av
 †Terrell, Isaac H., 261 W 27th
 †Thayer, T. W. & Co., 253 B'way
 Tide Water Bldg. Co., 517 W 30th & 25 W 26th
 Union Wood Working Co., 424 E 123d
 Vought, H. H. & Co., 112 W 42d
 Wright Lumber Co., 148 W 38th

Borough of Queens.

JAMAICA—†Carpenter, Jno. R.
 †Hendrickson, Isaac C.
 LONG ISLAND CITY—*Hanson, Jas. & Sons, 81 B'way
 †Quinn, H. F. & Son, 22 Hunter's Point av
 OCEANUS—†Crabbe, Charles
 OZONE PARK—†Gillespie, Earl A.
 METROPOLITAN—†Reich, Val. E.

Borough of Richmond.

PORT RICHMOND—†Mersereau, A. B. & Son
 PRINCE BAY—†Graham, James
 Sprague, Charles B.
 (END OF NEW YORK CITY)
 NIAGARA FALLS—†Blows & Co.
 †Haeberle Lumber Co.
 †Steinbrenner, Carl
 NORTH TONAWANDA—*Charlton, J. & T.
 †Hoadley & Bennett
 †Palmer, W. G.
 *Thompson, Hubman & Fisher

NORWICH—†Scott, W. L. Lumber Co.
 *Wheeler Co.
 NORWOOD—Norwood Sash Door & Lumber Co.
 NYACK—†Gurnee, D.
 OGDENSBURG—*Green, Landon A.
 *Proctor Mfg. Co.
 OLEAN—†Gillingham & Son
 *Moore, E. R.
 *Troy, Edw.
 ONEIDA—†Marcelius, Geo. A.
 Ruby, R. B. (Wholesale)
 OSSINING—†Terwilliger's, I. Son
 †Washburn & Todd
 OYSTER BAY—†Hendrickson, A. C. & E. N. Co.
 OZONE PARK—(See New York City, Borough of Queens)
 PATCHOGUE—*Bailey, E. & Sons
 PATTERSON—*Pendleton & Townsend
 PEEKSKILL—†Barker, Asbury
 *Brctherston, Wm.
 *Lamos, Charles A.
 PENN YAN—*Patteson, W. M.
 PERRY—*Andrus, David
 PHOENIX—Phoenix Sliding Blind Co. (Blind Tenoned Doors)
 PLATTSBURG—†Henry, Wood & Marshall
 *Purdy, F. M.
 †Sowles Hardware Co.
 PLEASANTVILLE—†Cornell, S. W.
 POLAND—†Potter Bros.
 PORT CHESTER—†Slater, Charles W.
 PORT HENRY—†Wallace, Geo. W.
 PORT JEFFERSON—†Loper Bros.
 PORT JERVIS—†Cogo, J. M. & Co., Orchard
 PORT RICHMOND—(See New York City, Borough of Richmond)
 POTTERSVILLE—†Hicks, H. J.
 POUGHKEEPSIE—†Brooks & Co., 46 S Water
 †Lumb, Geo. W. & Son, 23 N Water
 †Lumb's, Levi Son, 55 Main
 PRINCE BAY—(See New York City, Borough of Richmond.)
 REDWOOD—*Cook & Smith
 RHINEBECK—†Ackert & Brown, 45 E Market
 RIVERHEAD—Lane Bros.
 *Skidmore, Charles
 ROCHESTER—Anderson, Wm., 9 Basin
 *Bantleon Bros. Co., 221 N Water
 *Chapman & Goetzman, River & N Water
 *Crouch, C. T. & Son, 99 West
 †Evans, Chas. P., 7 Hill
 Genesee Lumber Co., 45 Warehouse
 Grauwiler, Jno. J., 9 Basin
 *Ocorr & Rugg Co., N. Union & N. Y. C. R. R.
 Smith Sash & Door Co., 175 Exchange
 Stalker, G. H., Platt & Allen
 Vogel & Binder Co., 320 St. Paul
 ROME—Beach Lumber Co.
 *Ccmstock, E., c George & Adams
 RONDOUT—(See Kingston)
 ROSLYN—†Hicks, John D. & Co.
 ST. JOHNSVILLE—†Kneeskern, J. H. & Sons
 SANDY CREEK—*Skinkle, A. C.
 SANDY HILL—*Griffin Lumber Co.
 †Kenyon Lumber Co.
 SARATOGA SPRINGS—†Todd, E. R.
 SCHENECTADY—†Peckham, Wolf & Co.
 †Van Voast, Albert & Sons, 37 John
 SIDNEY—*Clark, G. A.
 †Silver, M. L. & Co.
 SINCLAIRVILLE—†Reed, R. & Co.
 SKANEATELES—†Bench, J. & Son
 †Schultz, J. L. & Co.
 SUSPENSION BRIDGE—(See Niagara Falls)
 SYRACUSE—†Grant's, Alex. Sons, 132 E Gene-
 *Merriam Mfg. Co., 618 E Water see
 †Wood Glass Co., 228 N Salina
 TROY—*Marsh, Wm. H. & Co., Front & Fulton
 †Martin, Wm. E., Front nr Grand
 TURIN—*Hughes, Hugh
 UTICA—†Gibson, G. P. & Son, 718 Genesee
 †Kellogg, Chas. C. & Sons Co., 40 Seneca
 Thomas', Philip Sons, south of W. S. R. R.
 WALDEN—†Dominick, D. C.
 †Hasbrouck & Sloan
 WALTON—†Stimpson, Edgar W.
 WARRENSBURG—†Pasco, D. E.
 WATERLOO—†Nugent & Co.
 WATERTOWN—*Case & Folsom
 †Charlebois Bros.
 †Frost, John & Son
 †Roblin & McKeon
 †Sloat & Greenleaf Lumber Co.
 †White & Sullivan
 WATERVLEIT—*Young, J. T.
 WATKINS—†Banks & Woodward
 WEBSTER—*Leake, S. S.
 †O'Dell Bros.
 WEST NEW BRIGHTON—(See New York City, Borough of Richmond)
 WEST WINFIELD—†Weeks, Geo. S.
 WHITEHALL—*Wilson, F. J.

WHITE PLAINS—†Clark, C. H. Co.
 WHITESBORO—†Dentan & Waterbury
 WILSON—†Dwight, A. N.
 YONKERS—†De Angelis, Fred'k
 *Lawrence & Conkling
 *Mitchell, Saml. P. (Est. of)
 *Yerks Co.

NORTH CAROLINA.

ASHEVILLE—*Jones, Wm. M.
 †Scott, Geo. F. & Co.
 *Westall, W. H.
 CHARLOTTE—*Carolina Mfg. Co.
 †Lewis, J. W. & Co.
 †Ward, W. W. & Co.
 †Wearn, J. H. & Co.
 †Withers, B. F.
 DURHAM—†Mangum, F. R. & Co.
 ELIZABETH CITY—†Sharber & White
 GASTONIA—†Beale, J. B.
 GREENSBORO—*Cape Fear Mfg. Co.
 *Greensboro Lumber Co.
 GREENVILLE—Greenville Mfg. Co.
 HENDERSON—*Watkins, Jno. B.
 HICKORY—Hickory Mfg. Co.
 Hickory Novelty Works
 HIGH POINT—*Snow Lumber Co.
 JONESBORO—*Thomas, W. A. & Co.
 LENOIR—*Builders' Supply Co.
 NORTH WILKESBORO—*Wilkesboro Mfg. Co.
 SALISBURY—*Peacock Mfg. Co.
 †Rice, C. A.
 *Thompson, P. H.
 SANFORD—†Sanford Sash & Blind Co.
 WILMINGTON—†Divine, M. W. & Co.
 †Jacobi, N. Hardware Co.
 WILSON—†Simms, W. W. Co.
 WINSTON SALEM—†Smith-Phillips Lumber Co.

NORTH DAKOTA.

FAPGO—*Bowers Bros.
 †Schlauser & Ostbve
 GRAND FORKS—†Robertson Lumber Co.
 †St. Hilaire Lumber Co.
 *Turner, Jas. & Sons
 WAHPETON—†McCulloch Lumber Co.

OHIO.

AKRON—†Akron Lumber Co., 1027 S Main
 †Ewing, L. D., 121 Kirkwood
 †Frederick, U. G. Lumber Co., 213 Cherry
 *Hankey Lumber Co., 1036 S Main
 †Lyman Lumber Co., 896 S Main
 *McClellan, W. A., 305 Water
 †Summit Lumber & Building Co., 120 W
 †White Lumber Co., 212 River State
 †Wilson, N. C. Lumber Co., 388 S Main
 ALLIANCE—*Stroup, L.
 *Weybrecht's, J. T. Sons
 ARCANUM—†Millenger, James M.
 ASHLAND—†Myers, J. W. & Co.
 *Shearer, Kagey & Co.
 ASHTABULA—*Newell, L. C.
 †Smith, J. F. & Co.
 BELLAIRE—†Anderson & McGregor
 *Dubois & McCoy
 BELLEFONTAINE—†Dickinson, Mack & Co.
 †Lesourd, A. & Sons
 BERA—†Holmes & Johnson
 BOWLING GREEN—*Hankey Lumber Co.
 BRIDGEPORT—†Scott Lumber Co.
 BUCYRUS—†Assenheimer, Jno. L.
 †Roehr Co.
 *Vollrath, E. & O.
 CADIZ—†Long, E. M. & Sons (Wholesale)
 CAMBRIDGE—*Forney, C. W.
 *Hoyle & Scott
 CANAL DOVER—†Wentz, F. & Co.
 CANTON—†Bernover, Phil. J., 1206 S Cleveland
 †Holwick, King Lumber Co., 900 S Cleveland
 †Weaver Lumber Co.
 †Willis, Jno., 719 E 8th
 CAREY—†Snyder, W. H.
 CELINA—*Estry & Stephenson
 CINCINNATI—†Bosken & Brechelt, 3408 War-
 saw av
 *Brethauer, G. J. Planing Mill Co., 2260 Bogen
 *Cincinnati Sash & Door Co., 946 W 6th
 †Dexter Lbr. Co., Montg'y av (Norwood)
 †Doppes, J. B. & Sons, 1244 Gest
 Gilbert Ave. Planing Mills, 1130 Gilbert av
 *Griffith, Jas. & Sons, Reading rd & 12th
 *Maly Bros. (Ltd.), 717 Carr
 *Mayer, Wm. Co., 644 W 3d
 †Mills & Ott, 216 George
 *Mills, Spellmire & Co., 652 W 3d
 *Morrison & Snodgrass Co., 519 Reading
 †Morton, O. P. Co., 753 W 6th rd (Hunt)

*Pease Co., Fredonia av & C. L. & N. Ry.
 *Short, Chas. W., 259 Strader av
 *Thom, John C. Co., 1215 W 8th
 *Weber, Fred., 4011 Cherry
CLEVELAND—†Bohm & Stuhr Lumber Co., 1849 B'way
 †Cleveland Lumber Co., 1690 Woodland av
 *Cleveland Reversible Window Co., 400 Grand av
 *Cleveland Window Glass Co., 211 Champlain
 †Diamond Glass Co., 201 Viaduct
 †Hatch, D. Frank, Builders Exchange
 †Henderson, Fred L., Chamber of Com bldg
 *Lakewood Lumber Co., Berea rd nr Detroit av, N W
 *Marquard Sash & Door Mfg. Co., 172 Canal
 *Nahius, John, 181 Lake av
 †Nicola Bros. Co., New England bldg
 *Ohio Sash & Door Co., 375 Merwin
 *Peters' Mill Work & Lumber Co., 6 Carter
 *Pfeil, Chas. J. Co., 515 Seneca
 *Potter, Teare & Co., 7 Carter
 †Saginaw Bay Co., 714 Seneca
 †Standard Sash & Door Co., 1200 Euclid av
 †Teachout, A. Co., 42 Michigan
 *Trebing Mfg. Co. (Window Frames & Doors), 45 Center
 *Wiggins, F. B., 148 Columbus
 †Williams Pivot Sash Co., 406 Cham of Com bldg
 †Wood Sash, Door & Paint Co., 12996 Euclid
COLLEGE CORNERS—†Miller, Fred. av
 †Stewart, John H.
COLUMBUS—*Baumann, Ferd., 934 S 3d
 *Bergin, M. J. Lumber Co., Spring c Water
 †Biele, Jacob, Short av nr Maud
 †Clarke, G. W. & Co., 441 N Park
 Columbus Lumber Co., 424 W Spring
 *Columbus Planing Mill Co.
 †Cones & Menefee, 450 W Broad
 *Doddington, E. & Co., 447 W Broad
 †Dundon, T. J. & Co., 162 W Spring
 *Earl, Andrew, Water c Hickory
 †Hildreth & Martin Lumber Co., 157 W Jones, E. J. & Co., 485 W Spring State
 †Knox, Jos. J. Lumber Co., 405 Cleveland av
 *Sager, A. C., Town c Belle
 *Snider, J. J. Lumber Co., Taylor av
 †South Side Lumber Co., 1929 S High
 *Taylor, Wm. M. Mantel & Grate Co., 26 S 3d
 †Teachout Sash, Door & Glass Co., 199 N
 †Zinn, J. H., Jr., 2556 N High Front
CUYAHOGA FALLS—†Bates, A. R. & Co.
 *Waish Milling Co.
DAYTON—*Bouck, O. L., 4th c Wyandot
 †Davies, S. W., 1013 E 5th
 *Dayton Lumber & Mfg. Co., c Clinton & Bacon
 †Gebhart, Alex & Co., Wayne & Railroad
 †Harbaugh & Mather, 350 S Mound
 †Kuntz-Johnson Co., Mead nr Perry
 *Requarth, F. A. Co., cor Sears & Monument
 Rinderknecht, G. C. & Son, 362 E Huffman av
 *Rouzer, John Co., 73 S Wyandot
 †West Side Lumber Co., 1827 W 3d
DEFIANCE—†Tenzer, H. B. Lumber Co.
 †Tennyson, J. B.
DELAWARE—†Clark & Battenfield
DELPHOS—*Ricker, Harman & Sons
EAST LIVERPOOL—†Hall, Robert Lumber Co.
 †Nease, C. & Co.
 †Smith, J. T. Lumber Co.
ELYRIA—†Elyria Lumber & Coal Co.
 †Parsch Lumber Co.
 †Persons Lumber & Coal Co.
EMPIRE—†Stone's, James Sons
FINDLAY—*Neff, M. T.
 †Hayward & Young
FOSTORIA—Eureka Planing Mill & Lumber Co.
 *Koss & German Co.
FREMONT—†Fremont Lumber Co.
 *Price Lumber & Mfg. Co.
GALION—*Galion Lumber Co.
 *King, Joseph
GALLIPOLIS—*Mullineux Bros.
GREENVILLE—*Hart Mfg. Co.
 †Kuntz & Wright Lumber Co.
HAMILTON—*Bender, J. F. Bros. & Co.
 *Dingfelder, Wm. M. & Co.
HARRISON—†Bowles, R. D.
 †Hollowell, F. M.
 †Perrine, Attwood
HILLSBORO—Enterprise Planing Mill Co.
IRONTON—†Hutsinpillar & Sheridan
 †Ironton Lumber Co.
KENTON—*Callam, John & Co.
 †Robinson & Gage Lumber Co.
LANCASTER—†Orman, J. B. & Bros.
LEBANON—*Monroe & Johnston
LIMA—†Ewing, J. J., 225 N Main
 †Jones, Thos. R. & Son, 137 S Main
LISBON—*Baker, F. G.

LOCKLAND—*Lockland Lumber Co.
 *Lyons, Albert E.
LORAIN—Lorain Lumber & Mfg. Co.
MADISONVILLE—†Madisonville Lumber Co.
MANSFIELD—*Ford, S. N. & Co.
MARIETTA—†Theis, H. P.
 †Marion Sash & Door Co.
MARYSVILLE—*Robinson & Curry Co.
MASSILLON—†Brown Lumber Co.
MECHANICSBURG—*Horr, Jacob
MEDINA—†Wood Co.
MIDDLETOWN—†Caldwell & Iseminger
MOUNT GILEAD—†Mount Gilead Lumber Co.
MOUNT VERNON—†Bogardus & Co.
 †Sanderson & McCreary
NAPOLEON—*Thiesen & Hildred
NELSONVILLE—*Krieg, M. A. & Co.
NEWARK—†Jones, D. L. & Co.
 †Smith, P. & Sons Lumber Co., 65 S 2d
NEW PHILADELPHIA—†Nagley, John Lumber Co.
NEW RICHMOND—*Friedman Lumber Co.
NILES—†Niles Lumber Co.
NORWALK—*Bostwick-Godell Co. (Venetian Blinds Only)
 Norwalk Lumber & Mfg. Co.
ORRVILLE—†Kinney & Sons
PAULDING—†Finan, M.
PIQUA—†Wright-Kuntz Lumber Co.
 †Wood, C. L.
POMEROY—†Genheimer, Jno.
PORTSMOUTH—†Gilson, J. B. (Est. of)
RAVENNA—†Baldwin Lumber & Coal Co.
SANDUSKY—*Sandusky Sash, Door & Lumber Co.
 Schoepfle Mfg. & Lumber Co.
SEVILLE—†Frazier, M. E.
SHELBY—†Brucker Lumber Co.
SPRINGFIELD—†Brain's Lumber Co., 85 East
 †James Lumber Co., 776 W Main
 †Lion Hardware Co., 80 E Main
 †Rawlins, Albert M., Lincoln av c Main
 *Springfield Planing Mill & Lumber Co., 335 W Columbia
STEUERENVILLE—†Alexander, W. J.
 *McFeeley Bros.
TIFFIN—*Enterprise Mfg. Co.
 *Mathias, J. B.
TOLEDO—*Campbell Co., 1100 Hoag
 *East Side Lumber Co., Spitzer Bldg.
 *Goodsell Mfg. Co., Bancroft & M C R R
 *Goulet & Co., 125 S St. Clair
 *Kuehne, J. G. & Co., Builders' Exchange
 *MacLaren & Sprague Lumber Co.
 *Peter, William (Est. of), 197 St. Clair
 *Schoeder, C. H. Co., c S Erie & Kraus
 *Western Mfg. Co., Water & Vine
 †West Toledo Lumber Co., Phillips av
 *Witker Mfg. Co., Jackson c Water
TROY—†Francis-Clemm & Co.
UPPER SANDUSKY—*Shealy & Stephan
URBANA—†Hubbell, H. M.
VERMILLION—*Bachman, Conrad
WARREN—Warren Mfg. Co.
 *Western Reserve Lumber Co.
WAUSEON—*Grigham, C. E.
WESTON—*Oswald Bros.
WILKESVILLE—*Strong, H. B.
WILLOUGHBY—†Jenkins, Chas. C.
WILMINGTON—Fisher Mfg. & Fuel Co.
 *Shepherd & Son
WOOSTER—†Curry, D. C. Lumber Co.
XENIA—†McDowell & Torrence Lumber Co.
YOUNGSTOWN—*Dingeldy, Geo. H. (Est. of),
 *Heller Bros. Co., 346 S Phelps 35 Basin
 †Hoffman, Frederick, 436 W. Federal
 †Huffman Bros., Federal c Reserve
 *Youngstown Lumber Co., 726 Mahoning av
ZANESVILLE—†Curtis & Co., 25 8th
 †Drake, Thos. Lumber Co., Lee & Amelia
 *Herdman Sash, Door & Lumber Co.

OKLAHOMA TERRITORY.

OKLAHOMA—†Curtis & Gartside Co.
 †Oklahoma Sash & Door Co.

OREGON.

ASTORIA—*Smith's Point Mfg. Co.
BAKER CITY—*Bennett & Son
 *Shockey & McMurren Lumber Co.
CANYON CITY—*Southworth, W. S.
DALLAS—*Coad, F. J.
EUGENE—*Midgley, George
GRANTS PASS—*Williams Bros.
INDEPENDENCE—*Bohannon, John S.
KLAMATH FALLS—*Goeller, J. F.
MARSHFIELD—*Dean Lumber Co.
MYRTLE POINT—†Huling, Lundy & Son
NEWBERG—*Heacock & Sons
NORTH BEND—*North Bend Mfg. Co.
ONTARIO—†Adam, L.
PENDLETON—*Forster, Robert
 †Gray's Harbor Commercial Co.

PORTLAND—*Ainslie, Geo. & Co., Petty-grove c 15th
 †Beach, F. E. & Co., 135 1st
 †Central Sash & Door Agency, 71 1st
 †Fisher, Thorsen & Co., 160 Front
 †Hennessey, J. D. & Co., 193 Front
 *Nicolai Bros. Co., 66 2d, N.
 *North Pacific Planing Mill Co., Thurman N W c 22d
 *Northwest Door Co., Rlver c Albina av
 *Oregon Planing Mill, 421 19th
 Pacific Coast Door Co., 972 Macadam
 *Portland Mill & Fixture Co., 441 E. Morrison
 *Portland Sash & Door Co., 230 Front
 *Schmitt, Frank & Co., 195 E 8th
SAINT JOHNS—*Saint Johns Sash & Door Co.
SALEM—*Brown & Lehman
 *Stout, Jno.
SCIO—*Johnston, H. S. & Co.
SILVERTON—*Johnson, J. H.
 *Potter, P. W. & Co.
THE DALLES—†Peters, Joseph T. & Co.
VALE—†Vale Lumber Co.

PENNSYLVANIA.

ALLEGHENY—*Hays Bros. & Dodds, 2050 Chartiers
 *Little, Sam'l J. Planing Mill Co., Ltd. 1106 Rebecca
 *Meess & Vaelp, Reichenbach c Unity
 †Munn Lumber Co., 219 Lacock
 *Schwerd, A. F., 145 McClure av
 *Simon's, M. Sons, Robinson c Anderson
 *Willey Bros., 509 Lacock, W A
ALLENTOWN—*Butz, Fred'k & Co., Howard c Maple
 *Kern & Bro.
 †Ritter & Smith
 *Weil, F. W. & Co., 1031 Linden
ALTOONA—†Bucher, Adam, 7th av c 4th
 †Elder & Cassidy
 †Orr, J. C. & Son
ARDMORE—†Smedley & Mehl
ASHLAND—*Bright, H. F.
ATHENS—†Athens Lumber Co.
BANGOR—*Bangor Lumber & Mfg. Co.
 *Wise, F. S.
BEAVER FALLS—*Beaver Falls Planing
 *Commercial Sash & Door Co. Mill Co.
 *Mitchell, J. S. & Sons.
BEDFORD—†Arnold, W. S.
BELLE VERNON—*Belle Vernon Saw & Planing Mill Co.
BENNETT—*Bennett Lumber & Mfg. Co.
BENTON—*Smith, R. T. & Son
BETHLEHEM—†Brown-Borhek Lumber & Coal Co. (Ltd.), W B
BIRDSBORO—†Slipp, John W.
 *Smith & Clewell
BLOOMSBURG—*Bloomsburg Lumber & Mfg. Co.
 †Creasy & Wells
BRADDOCK—Braddock Union Planing Mill Co.
 †Dowler, Eli R.
 †Price & Alman
BRADFORD—†Kent, P. A.
 †Miller, A. & Sons Lumber Co.
 †Morrison & Co.
 *Tuna Mfg. Co.
BRISTOL—†Peirce & Williams
BROOKVILLE—*Anderson, Sol.
 *Hall & Lucas
 *Van Leer Bros.
BUTLER—*Purvis, S. G. & Co.
 †Wick, L. C.
 †Wick, W. S.
CARBONDALE—†Mills, F. W. & Co.
 †Tiffany, A. E.
CARLISLE—Beeten Lumber & Mfg. Co.
CATASAUQUE—*Wint, F. W. Co. (Ltd.)
CATAWISSA—†Harder, C. W.
CHESTER—†Glauser, Stacy G. & Son
 *Hamilton, John
 †Stevenson Co.
CHRISTIANA—*Davis, Harry
COATESVILLE—†Doan, J. E.
COLUMBIA—†Forry, John D.
CONNELLSVILLE—†Fayette Lumber Co.
CONSHOHOCKEN—†Jones, Wm. Potts
 *Miller, A. L. & Co.
CORRY—*Chautauqua Lumber Co.
DALTON—†Francis & Dean
DANVILLE—†Reifsnnyder, G. F.
 †Trumbower & Werkheiser
DARBY—†Gotshall & Morgan
DORRANCETON—*Seward, D. & Son
DOYLESTOWN—†Buchman, E. H. & Co.
 †Rotzell & Raik
DUBOIS—†Moulthrop Bros.
 *Pifer, Hess & Co.
 †Prothero, F. W.
EASTON—†Zearfoss-Hilliard Lumber Co.
ELIZABETHVILLE—*Buffington, I. T.
EMLENTON—*Sloan, U.
EPHRATA—*Kellenberger, G. H.

ERIE—†Carroll, Geo. & Bro. Co., ft French
 *Constable Bros. Co., 5th c Sasafra
 *Deming Bros., E 21st & Railroad
 *Felheim, Lyman, 16th & State
 *Johnson, Jas. D. & Co., 19th & Parade
 †Schlosser, David & Sons, 14th & French
 *Schroeck, Adolph, 906 E 11th
 †Shenk, Henry Co., 12th & Sasafra
 EVERETT—Cottage Planing Mill Co.
 FALLSTON—†Burns, H. M.
 FRANKLIN—†Hulin, H. D. & Bro., 11th & Elm
 †Ramsdale, G. H., 12th & Eagle
 GETTYSBURG—*Stallsmith, Geo. W.
 GLEN ROCK—*Glen Mfg. Co.
 GREENVILLE—†Heilman Bros.
 HALLSTEAD—†Roosa, E. H. B.
 HANOVER—*Moul, C. & Co.
 *Rohrbaugh, Jno. F.
 HARRISBURG—*Boas, D. D. (Est. of)
 †Central Mill & Lumber Co.
 †Miller, Chas. H.
 HAZLETON—†Frederick, S. Y.
 HICKORY—†McPeak, W. H.
 HOMESTEAD—*Feath & Kerr
 †Gordon & Co.
 *Hall, G. M. Co.
 HONESTDALE—†Watts, Graham
 INDIANA—†Hastings, John S.
 JEANETTE—Jeanette Planing Mill Co.
 JOHNSTOWN—†Ott, D. & Co.
 *Rose, W. J. & Sons
 †Walters, John W.
 KINGSTON—†Kingston Lumber Co.
 †Roat, A. J.
 KITTANNING—†Claypool, J. S. Lumber Co.
 †Heilman Bros.
 KNOXVILLE—*Edgcomb, I. M. Sons
 LANCASTER—Johnson, E. N. & Co.
 Keystone Planing Mill
 Lancaster Planing Mill Co.
 *Wohlsens, Wm. & Son, 417 N Mulberry
 LANESDALE—†Godshalk, Chas. D.
 LATROBE—†Anderson, Geo. C. & Sons (Inc.)
 †Kuhn, A. L.
 †Toner & Baker
 LEBANON—*Fox & Graeff
 *Miller Bros.
 *Reinohl Lumber Co.
 LEHIGHTON—†Lehighton Lumber Co.
 LEWISBURG—*Neshit, D. M. Co.
 LOCK HAVEN—*Hipple's Estate
 McKEESPORT—†Reynolds Lumber Co.
 MANSFIELD—†Doane, Edw. & Co.
 MARIETTA—†Cassal, A. N. & Son
 MAUCH CHUNK—†Neast, Chas. & Co.
 MEADVILLE—†Cutter, G. H. Lumber Co.
 †Harper, Walter G. Lumber Co.
 †Smith, L. F. Lumber Co.
 MERCER—*†Mercer Milling & Lumber Co. (Ltd.)
 †Zahnister, M. C.
 MIFFLINBURG—*Miller, Enoch
 MILLERSBURG—†Douden, A.
 MILTON—*Clinger, D. & Sons.
 *Fetter, Jacob
 MONONGAHELA CITY—†Stephens Bros.
 MONTGOMERY—*Montgomery Door & Sash Co.
 MOSCOW—*Van Brunt, C. P.
 MOUNT CARMEL—*Geiger, Gibson & Co.
 MOUNT PLEASANT—*Husband Lumber Co.
 NAZARETH—*Wunderly Bros.
 NEW BETHLEHEM—*Andrew's, C. E. Lum-
 ber Co.
 NEW BRIGHTON—*McDaniel, R. B. Co.
 †Martsolf Bros.
 NEW CASTLE—*Acme Lumber Co., 69 Pltts-
 †Balph, McFarland & Co. burg
 *Lawrence County Lumber Co.
 †Marshall Bros.
 †New Castle Lumber & Construction Co.
 NEWTOWN—*Watson, A. W. & W. M.
 NICHOLSON—*†Bacon, E. L.
 †Rought, G. G.
 NORRISTOWN—†Grater-Bodey Co. (Inc.)
 NORTH WALES—†Shearer, A. K. & Son
 *Weber, O. M. & Son
 OIL CITY—†Caldwell Lumber Co.
 †Earp & Kelley Lumber Co.
 United Lumber & Coal Co. (Ltd.)
 PARKESBURG—*Reid, Adam P.
 PEN ARGYL—†Fitzgerald, Speer Co.
 PENNSBURG—Pennsburg Mfg. Co.
 PHILADELPHIA—†Adams, Daniel, 2928 N
 Marshall
 *Alcott-Ross Co., 2917 N. Broad
 *Berger, Gustav, 2527 N. Bodine
 *Brown & Watson, 305 Montrose
 *Christian & Sweger, 4044 Gtn. av.
 *Fell, Chas. F., York av c Butler
 *Flte & Arbelo Co., 20th & Glenwood av
 *Gerry, F. R. Co., 1835 Market
 *Gibson, W. E., 3521 Market
 *Hall Bros. & Wood, Lancaster av & 54th
 †Haney-White Co., 2730 N Broad
 *Hoffman Sash & Door Co. 1414 Wood

*Keely, S. S. & Sons, Main c Umhria, Myk.
 †Kyle, Geo., Island rd c Grays av
 *Paine Lumber Co., 24 S 7th
 *Parker, John & Son, 16th c Fltzwater
 *Penna. Sash & Door Co., 2500 Callowhill
 *Philadelphia Pitt Balance Door Co.,
 Penn'a bld.
 *Sweger, C. E., 4040 Gtn av.
 *Swenk, Benson & Co. (Ltd.), 2305 Cherry
 *Underwood, Wm. J. & Co., Kensington av
 c Womrath, Fkd.
 *Van Kannel Revolving Door Co., Perry
 bldg
 *Watson & Robinson, 49 Queen, Gtn.
 *Wilt, A. & Son, 711 N Front
 PHOENIXVILLE—*Keely, Wm. P.
 PICTURE ROCKS—*Fry & Son
 PITTSBURG—Commercial Sash & Door Co.,
 Liberty av & 33d
 *Diebold Lumber & Mfg. Co., 99 Wabash
 *Dubarry, G. D. & Co., 41st & A. V. R. R.
 *Eiler Lumber & Mill Co., S 23d & Fox
 †Gearing, H. C., 2000 Sidney
 †Hill, Edwin M., 2601 Penn
 *Iron City Planing Mill & Lumber Co., 35th
 & Smallman
 †Johnston, Jas. A., Beitler nr Shakespeare
 †Keller, J. O., Chatsworth av & Mindon
 †Munhall, R. J. Lumber Co., 41 S 22d
 *Pittsburg Door & Sash Co., 246 3d av
 *Penna. Door & Sash Co., 906 2d av
 *Schuette, Wm. H. Co., Frick bldg
 PITTSTON—*Dershiner & Griffin
 Patterson, J. E. & Co.
 POTTSTOWN—†Healy, Jos. A. & Bro.
 Kline & Price
 POTTSVILLE—†Ryon, Jno. P.
 Sailor Planing Mill & Lumber Co.
 *Wertley, Walter
 QUAKERTOWN—*Stonebeck, H. W.
 READING—Penn Planing Mill Co.
 †Rummell, H. F. L.
 RICEVILLE—†Westate, Arthur & Son
 RIDGWAY—*Hyde, Murphy & Co. (Wholesale)
 ROCHESTER—†Miller, Wm. & Sons
 ROCKWOOD—*Growall, J. P.
 ROYERSFORD—*Bush Bros.
 ST. MARYS—*Schautt Bros.
 SCRANTON—Ansley Lumber Mfg. Co., 801
 †Benore, John, 706 Scranton Scranton
 Peck-Lumber Mfg. Co., 101 E Market
 *Washburn, Williams & Co.
 SHARON—*Wallis & Carley
 SHARPSBURG—†Saint, W. J. T.
 SHENANDOAH—†Glenn & O'Hearn
 SOUDERTON—*Hemmsing & Son
 STEELTON—Steelton Planing Mill Co.
 SUNBURY—†Simpson, Geo.
 TAMAQUA—†Weaver, Daniel & Son
 TAYLOR—†Taylor & Tubbs
 †Ward, G. F.
 TITUSVILLE—†Hale, W. J.
 †Reuting, D. F.
 TROY—†Case, Chas. J.
 TYRONE—*Beyer, F. D. & Co.
 *McCamant, A. H.
 UNIONTOWN—†Hustead, J. F.
 WARREN—*Newmaker & Reed
 *Rogers Lbr. Co.
 †Wetmore, L. D. Co.
 WASHINGTON—†Forgie, Wm.
 *Walker & Slater
 WATSONTOWN—*Breon Table Co.
 *Watson town Door & Sash Co.
 WAYNESBORO—*Hess, D. W.
 *Stover, U. G.
 WAYNESBURG—*Funk, J. M.
 WEST CHESTER—*Black, S. C.
 WEST NEWTON—†Finley & Campbell
 †Scholl, M. F.
 WILKES-BARRE—*Lee, Conrad, Canal c North
 *Shepherd, W. H. & Sons
 †Silvius, Geo. D., 26 Baltimore
 WILKINSBURG—*Young, W. F. Co.
 WILLIAMSPORT—*Brown, Clark & Howe
 *Crooks, W. D.
 *Sones, C. W.
 Williamsport Planing Mill Co.
 Wood Working & Stair Building Co.
 WRIGHTSVILLE—*Weller, R. H.
 YORK—*Beitzel, Jacob
 †Billmeyer & Small Co.
 *Fallon, J. C.
 †Gilbert, Geo. W.
 †Noss, Herman & Sons
 †Oermann & Blaebaum
 †Seacrist's, Jacob Sons

RHODE ISLAND.

BRISTOL—†Wardwell Lumber Co.
 PAWTUCKET—†Cottrell, John T. Co.
 †Pawtucket Sash & Blind Co., 24 Mason
 †Tingley, Frank E., Broad c Olive

PROVIDENCE—†Arnold, Wm. E., 326 Dean
 *Dodge, J. C. & Sou, 530 S Main
 *Evans, H. R. & Son, 8 Mathewson
 †Harris, Wm. M., Jr., 546 Atwells av
 *Learned, A. C. J. & Co., 5 Charles
 †McGowan, Jas. & Co., 14 Exchange pl
 *Perkins Bros., 970 Westminster
 †Providence Sash & Blind Co.
 *Smith, E. E. & Co., Tingley hlk.
 *Vaughan, L. & Co.
 WESTERLY—†Babcock & Wilcox
 †Maxson & Co.
 †Sherman, R. A. & Sons
 WOONSOCKET—†City Lumber Co.
 †Robinson, A. M.

SOUTH CAROLINA.

ANDERSON—*Barton, J. E.
 †Brissey, W. L.
 *Townsend, H. C.
 BEAUFORT—†Christensen, N. & Sons
 CHARLESTON—†Hacker, Geo. S. & Sons
 *Wetherhorn & Fischer
 *Sterling Mfg. Co.
 CHERAW—*Cheraw Door & Sash Co.
 COLUMBIA—†Brown, C. O. & Bro.
 †Shand Builders' Supply Co.
 †Thomas, H. Co.
 FERGUSON—†Santee River Cypress Lumber
 GREENVILLE—†Gower Supply Co. Co.
 †Morgan & Austin
 PROSPERITY—†Wheeler, H. F.
 SPARTANBURG—*Morgan Wood & Iron
 †Pearson, J. H. Works
 SUMTER—*Kennedy Building & Supply Co.
 VARNVILLE—*Ginn, E. R.

SOUTH DAKOTA.

DEADWOOD—†Fish & Hunter Co.
 †Stearns Co.
 MADISON—Colman, C. L. Lumber Co.
 MITCHELL—†Burns, Robert Lumber Co.
 †Davis & Daniels
 SIOUX FALLS—†Ross, H. W. Lumber Co.
 Sioux Falls Lumber Co.
 *†Tuthill, J. W. Lumber Co.
 STURGIS—†Anderson, H. O. & Son
 *Grams, Wm.
 †Voorhees, S. T.

TENNESSEE.

BRISTOL—*Bristol Door & Lbr. Co.
 *Cloyd Bros.
 *McCrary Lbr. Co.
 *Stone-Huling Lbr. Co.
 CHATTANOOGA—†Central Mfg. Co.
 *Chattanooga Lumber Co., John c N. C. &
 St. L. Ry
 *East Tennessee Lumber Mfg. Co., Har-
 rison av & T. V. & G. R. R.
 *Loomis & Hart Mfg. Co., 719 E. 9th
 Magill Hardware Co., 729 Market
 CLARKSVILLE—*Smith, F. L.
 FAYETTEVILLE—*Wagoner & Nuttall
 *Williams-Hass Lumber Co.
 GALLATIN—Simpson, S. R. & Son
 GREENEVILLE—†Adams, T. T.
 GREENFIELD—†Dudley, J. W.
 HARRIMAN—Flanders Mfg. Co.
 †Watts, J. H.
 HUMBOLDT—*Campbell, J. E.
 †Jerrell, B. C. & Co.
 KNOXVILLE—*Atkin, C. B.
 *Cooley & Son
 *Rose, D. M. & Co.
 MEMPHIS—†Central Lumber Co., 815 Vance
 *Cole Mfg. Co.
 †Darnell, I. M. & Son Co., McLemore & Y.
 M. V. R. R.
 *De Soto Lumber & Mfg. Co., Planters'
 Ins. bldg.
 *Friedel, P. R. & Co., 163 Gayoso
 †Jordan, J. P. & Co., 358 2d
 *Moore & McFerren, Henry & Wolf River
 †Southern Lumber Co., 815 Vance
 †Tennessee Lumber Co., 41 Madison
 †Williams & Co., 371 2d
 MORRISTOWN—†East Tennessee Wood Work-
 ing Co.
 NASHVILLE—†Beasley & Sons, 303 Church
 †Cohn & Goldberg, 109 S Summer
 *Davidson-Benedict Co.
 *De Hart, I. N. & Son, 1300 Church
 *McGinnis & Co.
 *Moore, G. & Sons
 †Norvell & Wallace, 601 Broad
 †Riddle Co., 324 Broad
 †Warren Bros. Co., 200 N College

TEXAS.

ALBANY—†Rockwell Bros. & Co.
 AUSTIN—†Calcasieu Lumber Co., 311 W 2d
 †Haldeman & Co., 118 Congress
 †Nalle & Co., 609 E 6th
 BEAUMONT—†Georgs, C. W. Mfg. Co.
 CLARKSVILLE—†Clarksville Lumber Co.
 CLEBURNE—Conway-Craig Lumber Co.
 COLORADO—†Burton-Lingo Co.
 †Roe, A. J.
 CORPUS CHRISTI—†Sidbury Lumber Co.
 CORSIOANA—*Clopton, B. M., Jr.
 †Doke, F. Y. & Son.
 DALLAS—†Campbell-Harriss Lumber Co.
 Conkling Planing Mill Co., Pacific av c Olive
 †Elliott, J. T., 1341 Elm
 †Griffiths & Co., 139 N Lamar
 *Illingsworth, W., 244 Cochran
 †Mayfield, J. S. Lumber Co., Ross av c Magnolia
 DEL RIO—†Price, J. A. (Est. of)
 DENISON—†Lingo-Leeper Lumber Co.
 DUBLIN—†Smith, H. A. & Co.
 †Spencer, R. B.
 EL PASO—†Bassett, O. T. & Co. (Inc.)
 †Burton, Lingo & Co.
 FLATONIA—†Cockrill, Milton
 *Eidelbach, A.
 FORT WORTH—†Armstrong, J. H. & Co.
 *Brown, R. L.
 *Buckley Planing Mill
 †Burton-Lingo Co.
 †Cameron, Wm. & Co.
 †Darnell Lumber Co.
 *Enterprise Planing Mill
 *Lusher & Rockett
 *Owens, G. W. Lumber Co.
 †Quarles, J. E. Lumber Co.
 †Ripley & Irwin
 †Roe, A. J.
 †Smith, Cicero Lumber Co.
 †Tims, Bowden
 †Waples-Painter Co.
 GALVESTON—†Beaumont Saw Mill Co.
 *Devlin, Harry
 *Hildenbrand, C. F. Co.
 *Hoo Hoo Planing Mill Co., 31st & Church
 †Moore & Goodman, 2827 Mechanic
 †Sachs, Hugo, 2107 Mechanic
 †Schadt, Wm., 2801 Mechanic
 *Smith, J. F. & Bro.
 †Wilson, D. M. & Co., 3428 Av N
 HALLETTSVILLE—†Hill, T. A. & Son
 HOUSTON—*Bering Mfg. Co.
 †Burton Lumber Co.
 †Central Lumber Co.
 †Harrell, Ed. H. Lumber Co.
 *House, Henry
 *Houston Co-Operative Mfg. Co.
 †Jones, Jesse H. & Co.
 †Rice, Allen Waples Co.
 †South Texas Lumber Co.
 *Ware, Wm. & Co.
 KERRVILLE—†Remschell, Henry
 LAREDO—†Pfeuffer, Geo. & Co.
 MARSHALL—*Forslund, Wm.
 NAVASOTA—*Youens, J. & Co.
 ORANGE—*Miller-Link Lumber Co.
 PITTSBURG—†Robinson, J. E.
 SAN ANTONIO—†Beitel Lumber Co.
 †Hans, E.
 †Steves, Ed. & Sons
 †West End Lumber Co.
 SAN MARCOS—†Mead, C. G.
 SHERMAN—†Fielder, A. A. Lumber Co.
 †Lyon, O. T. & Son
 †Wilson, J. B. & Co.
 †Wylie, Wm. T.
 SWEET WATER—†Wilkinson, O. L.
 TAYLOR—†Thompson, J. A.
 TEXARKANA—†Hoffman Hardware Co.
 VICTORIA—*Bailey Mills Co.
 WACO—†Brazleton & Johnson (Wholesale)
 *Cameron, Wm. & Co.
 WAXAHACHIE—†Timmons, H. D. Lumber Co.
 WILLS POINT—†Matthews, N. A. Lumber Co.

UTAH.

OGDEN—†Belknap, H.
 †Eccles Lumber Co., 154 24th
 †Humphries, C. J., 202 21st
 †Utah & Oregon Lumber Co.
 PROVO CITY—*Ward, E. J. & Sons
 SALT LAKE CITY—†Asper, Noall & Co., 151 W North Temple
 Commercial Mill & Building Co., 141 3d, W
 †Feit, Geo. F. Lumber Co., State c 8th
 †Morrison, Merrill & Co., 241 N 3d, W E
 †Stewart, J. J., 205 S W Temple

VERMONT.

ARLINGTON—†Lathrop, E. M.
 BARRE—†Allen, Stillman D.
 BARTON—*Drew, G. A.
 BELLOWS FALLS—*Ramsay, R. H.
 BENNINGTON—*Bingham, Jos. B.
 BRANDON—†Gipson, H. M.
 BRATTLESBORO—*Holden & Martin
 †Mellen, J. E.
 †Robbins & Cowles
 BURLINGTON—†Booth, J. R.
 *Burlington Venetian Blind Co.
 *Champlain Mfg. Co.
 †Mason & Co.
 *Morgan Bros.
 †Spear Bros.
 DERBY—*Albee, A. J.
 ENOSBURG FALLS—*Manley, A. H.
 HARTLAND—†Martin, A. W.
 †Martin, F. P.
 MIDDLEBURY—*Rogers & Wells
 MONTPELIER—†Brooks, Jno. V.
 NEWPORT—†White, A. J. & Son
 POULTNEY—†Ripley Lumber Co.
 RANDOLPH—*Emerson, E. F. Co.
 RICHFORD—†Impey, W. M.
 *Sweat-Comings Co.
 RUTLAND—†Chaffee, F. Sons, 321 West
 †Noyes, H. F., 127 State
 ST. JOHNSBURY—†Bragg, Alfred L.
 †Caldbeck, M. J. & Son
 SOUTH SHAFTSBURY—*Eagle Square Mfg. Co.
 STOWE—†Straw, John
 SWANTON—†Prouty, E. M.
 VERGENNES—*Cotey, L. C. & Son
 *Vergennes Mfg. Co.
 WEST DANVILLE—†Merrill, Augustus W.

VIRGINIA.

ALEXANDRIA—*Aitcheson & Bro.
 *Smoot & Co.
 BLACKSTONE—*Blackstone Mfg. Co.
 CHARLOTTESVILLE—*Charlottesville Lumber Co.
 *King Lumber Co.
 DANVILLE—†Anderson, R. I. Co.
 *Danville Lumber & Mfg. Co.
 *Heldelbach & Penn
 HAMPTON—*Hampton Sash & Door Mfg. Co.
 †Heffelfinger, Jacob
 HARRISONBURG—†Bucher, Wm. M. & Son
 LYNCHBURG—†Adams-Monroe Mfg. Co.
 †Hutter, C. S.
 *Ross, E. E.
 †Taylor, W. O.
 MANCHESTER—†Woodward & Son
 NEWPORT NEWS—†James River Lumber & Supply Co.
 †Poarch & Co.
 †Richardson, R. E.
 †Weaver Bros.
 NORFOLK—†Clark, Frank T. Co. (Ltd.)
 †Nash, C. A. & Son
 *Watkins, E. A. & Bros.
 †White Hardware Co.
 PETERSBURG—†Hargrave, W. T.
 †Jefferson, T. J.
 †Marks, L. L. Lumber & Supply Co.
 PORTSMOUTH—†Hart & Watts
 RICHMOND—†Binswanger & Co., 525 E Byrd
 †Cheatwood, L. J., 1211 E Broad
 †Gunn, Wm. S., 1123 W Broad
 *Hardwicke, Chas. W. & Co., 18th c Cary
 †Heppert, Jos., Graham c Catherine
 †Leibermuth-Abrams Co., 1435 E Main
 *Miller & Miller 324 S 6th
 *Montague Mfg. Co., 400 S 9th
 *Richmond Wood Working Co., 14 N 17th
 †Siewers, R. A., 600 W Canal
 *Sitterding-Carneal-Davis Co., 8 E Broad
 *Stagg, Thos. C., 1444 E Main
 †Taliaferro, Jas. L., 2010 E Broad
 *Whitehurst, W. J., 1013 E Byrd
 †Woodward & Son, 330 S 9th
 ROANOKE—†Catogni Bros., Campbell av c 3d S E
 *Central Mfg. Co., Shenandoah av c 2d
 Exchange Lumber Co., 15 2d, S W
 †Wilkinson, J. H.
 SOUTH BOSTON—†Penick, R. A. & Son
 STAUNTON—†Livick, A. J.
 †Worthington Hardware Co.
 SUFFOLK—†Allen, R. R.
 †Folk, E. L. & Co.
 WARRENTON—†Wood, D. P. & Co.
 WOODSTOCK—*Fravel, Jos.
 WYTHEVILLE—Wytheville Mfg. Co.

WASHINGTON.

BALLARD—*Rines Mfg. Co.
 BELLINGHAM—*Bay City Furniture Co.
 *Bay City Sash & Door Factory

†Munro, Blake & Haskell
 *Whatcom Falls Mill Co.
 *Whatcom Sash & Door Co.
 BRYANT—*Bryant Lumber & Shingle Mill Co.
 CHEHALIS—*Chehalls Flr Door Co.
 CANTRALIA—*Harm, Frank D.
 CHENEY—†Ratcliffe, Chas. A.
 CONNELL—†Myer, C. H.
 DAVENPORT—†Baske & Huesmann
 DAYTON—†Dayton Lumber Co.
 ELMA—†Minard, E. L. & Co.
 EVERETT—*Robinson Mfg. Co.
 *Everett Sash & Door Co.
 *Wheelihan-Weidauer Co.
 HOQUIAM—*Hoquiam Sash & Door Co.
 MANETTE—*Parks, W. A.
 MARYSVILLE—*Krusse Bros. & Norton
 NORTH YAKIMA—†Howard, A. E.
 OAKDALE—†Madison Lumber Co.
 OLYMPIA—*Olympia Door Co.
 PORT ANGELES—†Martin, Jno. M.
 PORT TOWNSEND—*Quimper Mfg. Co.
 PRESCOTT—†Geyer, John
 SEATTLE—†Argo Mfg. Co., Spokane av & East Waterway
 †Baker & Richards Co., 108 1st av, S
 *Brace & Hegert Mill Co., Westlake av & Mercer
 *Bryant Lumber & Shingle Mill Co., Fremont
 †Compton Lumber Co., Western av & Spring
 *Hutchinson Mill Co., Marion bld
 Kramer, Isaac D., 1445 Western av
 *Lake Washington Mill Co., 834 31st av S
 Lewis & Tucker, 200 Westlake av
 Nelle & Engelbrecht, 82 W Columbia
 *Seattle Sash & Door Works, 2017 14th av
 Slocum, E. E., 815 1st av, S
 *Stetson & Post Mill Co., Water front & Travis, F. F., Alaska bldg Weller
 †Uphus, A. J. & Co.
 *Western Mill Factory, Terry av Mercer
 †Williams, O. B., 1308 3d av
 SNOHOMISH—*Morgan Bros.
 SOUTH BEND—*Cameron, E. H.
 SPOKANE—*Dean Lumber & Fuel Co., Reagal & S. F. & N. Tracks
 Eastern Lumber Co.
 Hoag, Geo. W. Lumber Co.
 *Holland-Horr Mill Co.
 *Luratsch & Doley Milling Co.
 *King Sash, Door & Lumber Co.
 Petersen, H. J. Lumber Co.
 *Sexton, J. F. & Co.
 *Spokane Sash & Door Co.
 *Springston Lumber Co.
 *Washington Mill Co.
 TACOMA—*East Tacoma Mfg. Co.
 †Fuller, W. P. & Co., 1123 South C
 †PETERMAN, W. P. & Co., 1123 South C
 †Todd, J. L. Lumber Co., 912 Commerce
 *Washington, Mfg. Co., 720 Pacific av
 *Wheeler-Osgood Co., Tide Flats
 WALLA WALLA—*City Lumber Yard & Planing Mill
 *Kent Lumber Co.
 †Stack, John
 †Walla Walla Lumber Co.
 *Whitehouse-Crawford Co.

WEST VIRGINIA.

BLUEFIELD—†Saxon Lime & Lumber Co.
 CHARLESTON—†Gates, L. C.
 CHARLESTOWN—*Phillips, Wm. Sons
 CLARKSBURG—†Williams & Davidson Co.
 FAIRMOUNT—†Dickerson Building Supply Co.
 HUNTINGTON—†Emmons-Hawkins Hdw. Co.
 MORGANTOWN—*Morgantown Planing Mill
 WHEELING—*Beltz, J. W. Sons Co. Co.
 †Chapman, W. H. & Sons
 †Klieves Lumber Co.
 †Wilson, W. A. & Sons
 †Wood, W. W. Co.

WISCONSIN.

APPLETON—†Miller Lumber Co.
 †Schlafer Hardware Co.
 *Standard Mfg. Co.
 ASHLAND—†Scott-Taylor Co.
 BAGLEY—†Brodt, T. E.
 BEAVER DAM—†Roedel & Jacobs
 BELOIT—*Cunningham Bros.
 BLACK RIVER FALLS—*McGillivray, J. J.
 BRILLION—†Brillion Lumber Co.
 CEDARBURG—*Hilgen Mfg. Co.
 CHILTON—*Dorschel, Schultz & Co.
 CHIPPEWA FALLS—*Stanley, F. G. & C. A.
 CLINTONVILLE—*Rohrer, D. J.
 DE PERE—†De Pere Lumber & Fuel Co.
 EAU CLAIRE—*Fish, E. M. & Co.
 *Hoepfner, Bartlett & Co.
 EVANSVILLE—†Lovejoy Lumber Co.

FOND DU LAC—†Moore & Galloway Lumber Co.
 *Steenberg, O. C. Co.
 FOX LAKE—†Eggleston, C. H.
 GREEN BAY—†Cooke, W. D.
 *Dickman Mfg. Co.
 *Green Bay Planing Mill Co.
 *Mueller Bros. & Co.
 HARTFORD—†Denison-Liver & Coerper
 †Hartford Lumber Co.
 HELENVILLE—†Reul Bros.
 HAYWARD—*North Wisconsin Lumber & Mfg. Co.
 HUDSON—*St. Croix Sash & Door Co.
 JANSVILLE—†Fifield Bros. Lumber Co.
 †Schaller & McKel Lumber Co.
 KAUKAUNA—*Kaukauna Lumber & Mfg. Co.
 KENOSHA—*Grant, Mrs. Co.
 *Kenosha Sash & Door Co.
 KEWAUNEE—*Borgman, Jno. M.
 LA CROSSE—†Colman, C. L. Lumber Co.
 *Kuhn, R. C. Sash & Door Co.
 *Segelke & Kohlhaus Mfg. Co.
 *Trow, A. S. & Co.
 LAKE GENEVA—†Wilbur Lumber Co.
 MADISON—†Brittingham & Hixon Lumber Co.
 †Frederickson, A. D. & J. V.
 †Silbernagel, J. J.
 Strack Mfg. Co.
 MANAWA—†Davids & Kinsman
 *Little Wolf River Lumber Co.
 MANITOWOC—†Manitowoc Building Supply Co.
 MARINETTE—*Linden & Miller
 *Marinette Planing Mill Co.
 MARSHFIELD—*Bille, Hans
 MENASHA—*Menasha Mfg. Co.
 MERRILL—*Anson-Hixon Sash & Door Co.
 *Wright, H. W. Lumber Co.
 MILWAUKEE—*Badger Sash & Door Co., 592 Island av
 †Butter, Gustav A., 603 Mitchell
 *Conway Veneered Door & Mantel Co., St. Paul av ft 20th
 *Cream City Sash & Door Co. (Wholesale Mfrs.), 7th av & Park
 *Curtis & Yale Co., 296 Reed
 *Gruhl Sash & Door Co., Stewart nr Kin-nikinnic av
 *Hilgen Mfg. Co., 219 Cherry
 *Interior Woodwork Co., 539 Park
 †Meckelburg, A. F. Sash & Door Co., 760 31st
 *Niss, C. & Sons, 699 3d
 †Pederson & Grolben, 598 National av
 *Phenix Mfg. Co., Humboldt av & Center
 *Poppert, Geo. Mfg. Co., 417 Poplar
 *Radcliffe & Porter Mfg. Co., 59th av & Mitchell
 *Rockwell Mfg. Co. (Wholesale Mfrs.)
 †Schmidt, W. H. & Sons, 305 3d av
 *West Side Mfg. Co., 3020 Walnut
 †Wilbur Lumber Co., Pabst bldg
 *Willer Mfg. Co., 313 Cedar
 *Wisconsin Woodwork Co., 318 Milwaukee
 MONROE—*Monroe Planing Mill Co.
 NEW RICHMOND—†Jagger, H. M.
 †Willow River Lumber Co.
 OMRO—*Morton, C. C. & Co.
 OSHKOSH—*Campbell & Cameron Co.
 *Foster, Lothman Mills (Wholesale)
 *Gould Mfg. Co. (Wholesale)
 *McMillen, R. Co. (Wholesale)
 *Morgan Co. (Sash, Open, Glazed; Doors, Veneered Doors, Blinds, Shutters)
 *Paine Lumber Co. (Wholesale)
 *Radford Bros. & Co. (Wholesale)
 *Starkweather, R. R. Co.
 *Williamson & Libbey Lumber Co.
 PRINCETON—†Yahr, F. J.
 RACINE—†Belle City Sash & Door Co.
 *Driver, Thos. & Sons Mfg. Co.
 *Weber-Bahnemann Co.
 RHINELANDER—†Lewis Hardware Co.
 RICE LAKE—*Rice Lake Mfg. Co.
 RIPON—†Horner & Middleton
 Ripon Veneer & Box Works (C. T. Timm, Prop'r)
 SAUK CITY—†Lachmund, P. & Son
 SHEBOYGAN—†Gele, Frank Hardware Co.
 †Miller Hardware Co.
 *Mueller, H. G. Lumber & Mfg. Co.
 SHIOCTON—†Shiocton Lumber Co.
 SPARTA—*Sparta Sash & Door Co.
 STEVENS POINT—*Vetter Mfg. Co.
 SUPERIOR—*Cowdin, H. F.
 *Dam, F. H.
 *Shunn, Wm. H.
 WATERTOWN—†Lehmann & Schroeder
 †Weber, J. & Son
 WAUKESHA—†Palmetier & Abell
 WAUPACA—*Nel-on, A. G. Lumber Co.
 WAUSAU—*Curtis & Yale Co.
 *Werheim Mfg. Co.
 WAUWATOSA—*Wauwatosa Sash & Door Factory
 WEST ALLIS—*Radcliffe & Porter Mfg. Co.
 WESTFIELD—†Kendall, George

WYOMING.

EVANSTON—†Atkinson, J. L.
 RAWLINS—†Daley, R. A.
 †Larsen, Hans

Sashes (English Casement)

Haase, G. J., 142 Centre, New York

Saw Anvils

Covel Mfg. Co., Benton Harbor, Mich.

Saw Arbors

American Wood Working Machinery Co. Rochester, N. Y., & West Street bldg, New York
 Atkins, E. C. & Co. (Inc.), Home Offices & Factories, Indianapolis, Ind.
 Oliver Machinery Co., Grand Rapids, Mich.
 Atlantic Works (Inc.) (Cast Steel), Phila., Pa.
 Beach, H. W., Montrose, Pa.
 Bentel & Margendant Co., Hamilton, O.
 Chase Turbine Mfg. Co. (with Self-Oiling Boxes), Orange, Mass.
 Crucible Steel Co. of America (La Belle Steel), Frick bldg, Pittsburg, Pa.
 Disston, Henry & Sons (Inc.), Tacony, Phila., Pa.
 Goodell-Pratt Co. (Saw or Emery Wheel), Greenfield, Mass.
 Hemingway, John & Son, Lynn, Mass.
 Hobbs Mfg. Co., Worcester, Mass.
 National Saw Co., Newark, N. J.
 Simonds Mfg. Co., Fitchburg, Mass.
 Sovereign Foundry & Mfg. Co., Lebanon, N. J.
 White, Jno. A. Co. (Self Oiling), Dover, N. H.
 Yerkes & Finan Woodworking Machine Co., St. Louis, Mo.

Saw Benches or Tables

American Sawmill Machinery Co. ("American"), 114 Liberty, New York & Hack-ettstown, N. J.
 American Wood Working Machinery Co., Rochester, N. Y., & West St. bldg, New York
 Atlantic Works (Inc.), Phila., Pa.
 Badger State Machine Co. (Self-Feed Rip, Saw & Combination), Janesville, Wis.
 Baker Bros., Toledo, O.
 Beach, H. W. (Rip & Cut-off), Montrose, Pa.
 Carey, W. W. (Circular), Lowell, Mass.
 Challenge Co., Batavia, Ill.
 Chase Turbine Mfg. Co. (Power Feed), Orange, Mass.
 Colburn Machine Tool Co. ("Universal"), Franklin, Pa.
 Colladay, Jos. O. Co., 626 Race, Phila., Pa.
 Covel Mfg. Co., Benton Harbor, Mich.
 Crescent Machine Co. (Combination), Leetonia, O.
 Dennis Machine Co. (Benches only), Jackson, Mich.
 Dodds, Alex. (Circular, etc.), Grand Rapids, Mich.
 Fay, J. A. & Egan Co., W. Cincinnati, O.
 Fairbanks, E. & T. Co., St. Johnsbury, Vt.
 Fischer, E., Machine Works (Cut-Off & Rip Saw for Box Factories), 710 Carroll av, Chicago, Ill.
 Frank Machinery Co., 214 Terrace, Buffalo, N. Y.
 Freeman, S. & Sons Mfg. Co., Racine, Wis.
 Goodspeed Machine Co., Winchendon, Mass.
 Grabo, E. O. (for Metal), 180 Centre, New York
 Grand Rapids Hand Screw Co. (Wood Frame), Grand Rapids, Mich.
 Greenlee Bros. & Co. (Automatic), Railway Exchange bldg, Chicago, Ill. Factory: Rockford, Ill.
 Hayes Machine Co. (Inc.), Kingston, N. Y.
 Hemingway, John & Son, Lynn, Mass.
 Hildreth Bros. (Tables only), Harvard, Mass.
 Hobbs Mfg. Co., Worcester, Mass.
 Holmes, E. & B. Machinery Co., Buffalo, N. Y.
 Hub Machine & Tool Co. ("Acme" Metal), 621 Cherry, Phila., Pa.
 Humphrey Machine Co., Keene, N. H.
 Kidder, R. E. (Circular, etc.), Worcester, Mass.
 Kimball Bros. & Sprague (also Circular), Brockton, Mass.
 Murray, D. J. Mfg. Co. (Self Feed, etc.), Wausau, Wis.
 Oliver Machinery Co. ("Universal" Saw Benches), Grand Rapids, Mich.
 Power, L. & Co., 20 S 23d, Phila., Pa.

Root, B. M. Co. (Portable Saw Tables), York, Pa.
 Royle, John & Sons, Paterson, N. J.
 Smith, H. B. Machine Co., Smithville, N. J., & 121 Liberty, New York
 Sovereign Foundry & Mfg. Co., Lebanon, N. J.
 Spangler Mfg. Co. (Circular, etc.), York, Pa.
 Stowell, J. A. Co., Leominster, Mass.
 Tidey, M. B., Newark, N. J.
 U. S. Machine Co. (Self Feed), Williamsport, Pa.
 U. S. Wind Engine & Pump Co., (Horse Power), Batavia, Ill.
 Wachusett Machine Co. (Adjustable), Fitchburg, Mass.
 Walker, G. A. Machine Co., 51 Chardon, Boston, Mass.
 Yerkes & Finan Woodworking Machine Co., St. Louis, Mo.

Saw Blades (Band & Jig)

Cunningham, E. E. (Est. of), Worcester, Mass.

Saw Blades (Cold)

Atkins, E. C. & Co. (Inc.), Home Office & Factories, Indianapolis, Ind.
 High Duty Saw & Tool Co. (High Carbon Crucible Steel Plate with Inserted Teeth), Eddystone, Pa.

Saw Blades (Hack, Flexible Back)

Atkins, E. C. & Co., Indianapolis, Ind.
 Simonds File Co., Fitchburg, Mass.
 Thompson, Henry G. Son & Co., New Haven, Conn.
 West Haven Mfg. Co., New Haven, Conn.

Saw Blades (Hack, for Metal)

Disston, Henry & Sons, Phila., Pa.
 Thompson, Henry G & Son Co., New Haven, Conn.
 West Haven Mfg. Co., New Haven, Conn.

Saw Blades (Stone)

(See Stone Saw Blades, Steel.)

Saw Blades & Frames (Hack)

(See also Hack Saw Machines.)

Allen-Randall Co., Springfield, Mass.
 Arcade Mfg. Co., Freeport, Ill.
 Atkins, E. C. & Co. (Inc.), Home Offices & Factories, Indianapolis, Ind.
BERNZ, OTTO S., 13th & S Orange av, Newark, N. J. (See adv. index, end of book)
 Braunsdorf-Mueller Co., Elizabeth, N. J.
 Bridgeport Hardware Mfg. Co., Bridgeport, Conn.
 Champion Saw Co., Beaver Falls, Pa.
 Clemens Bros., Middletown, N. Y.
 Diamond Saw & Stamping Works ("Sterling," also "Sterling," for Railroad & Structural Steel Work), Buffalo, N. Y.
 Disston, Henry & Sons, Tacony, Philadelphia, Pa.
 Grover, John B. File Co., Nashua, N. H.
 Goodell-Pratt Co. (The "G"), Greenfield, Mass.
HAMMACHER, SCHLEMMER & CO., 133 4th av, New York. (See adv. index, end of book)
 Harris, Samuel & Co., 23 S Clinton, Chicago, Ill.
 Hough, Morrill M. ("Morrill" Hack Saw Blade), 123 Liberty, New York
 Jennings, C. E. & Co., 42 Murray, New York
 Massachusetts Saw Works ("Victor," "Diamond"), Chicopee, Mass.
 Millers Falls Co. ("Star"), 28 Warren, N. Y., & Miller's Falls, Mass.
 Montgomery & Co., 105 Fulton, New York
 National Saw Co., Newark, N. J.
 Ohlen, J. & Sons Saw Mfg. Co., Columbus, O.
 Olmsted, L. H., Hasbrouck Heights, N. J.
 Quincy-Manchester-Sargent Co., Old Colony bldg, Chicago, Ill., & 95 Liberty, New York
 Robertson Mfg. Co., Buffalo, N. Y.
 Simonds File Co., Fitchburg, Mass.
 Smith & Hemenway Co. ("Red Devil" Hack Saw Frame), 108 Duane, N. Y.
 Starrett, L. S. Co., Athol, Mass.
 Sawyer Tool & Mfg. Co., Fitchburg, Mass.
 Thompson Henry G. & Sons Co. ("Milford" Hack Saw & Blades), New Haven Conn.

Tower & Lyon Co., 95 Chambers, N. Y.
 Union Hardware Co. (Frames only), Torrington, Conn.
 West Haven Mfg. Co. ("Universal," "Utility"), New Haven, Conn.
 Williams & Goldenblum ("Boss" Cutter), Wallingford, Conn.

Saw Brazing Tables

Covel Mfg. Co. (for Band Saws), Benton Harbor, Mich.

Saw Bucks & Frames

Belle City Mfg. Co., Racine, Wis.
 Brennan & Co., Louisville, Ky.
 Chapin-Stevens Co. (Turning Saw Frames & Saws), Pine Meadow, Conn.
 Corinth Engine & Boiler Works, Corinth, Miss.
 Doscher Plane & Tool Co. ("Acme" Roller Saw Bucks, Saugatuck, Conn.
 Hunt, Helm, Ferris & Co. (Hardwood Folding), Harvard, Ill.
 Jennings, C. E. Co., 42 Murray, New York
 Judson, J. R. ("Vermont"), E. Arlington, Vt.
 Tucker & Dorsey Mfg. Co. ("Hoosier" Folding Saw Buck), State av & Bates, Indianapolis, Ind.

*Saw Coils (Butchers')

AMERICAN TAP & DIE CO. (50 feet long), Greenfield, Mass. (See adv. index, end of book)

Sawdolet

Clements, C. Co., 1722 Oregon av, N E, Cleveland, Ohio

Saw Guides

American Sawmill Machinery Co. ("American"), 114 Liberty, New York, and Hackettstown, N. J.
 American Wood Working Machinery Co., Rochester, N. Y., & West Street bldg, New York
 Atkins, E. C. & Co. (Inc.), Home Office & Factories, Indianapolis, Ind
 Baldwin, Tuthill & Bolton (for Band Saws), Grand Rapids, Mich.
 Barry Saw Co., 228 S Penna., Indianapolis, Ind.
 Corinth Engine & Boiler Works, Corinth, Miss.
 Filer & Stowell Co. (Circular), Home Office, Milwaukee, Wis.
 Henderson, W. K. Iron Works & Supply Co., Shreveport, La.
 LANE MFG. CO., Montpelier, Vt. (See adv. index, end of book)
 Murray, L. J. Mfg. Co., Wausau, Wis.
 New Britain Machine Co. ("Pines" Band Saw), New Britain, Conn.
 Ohlen, J. & Sons Saw Mfg. Co., Columbus, Ohio
 Reed, Jos. B., Cairo, Ill.
 Salem Iron Works, Winston-Salem, N. C.
 Southern Engine & Boiler Works (Inc.), Jackson, Tenn.
 Standard Saw Mill Machinery Co., Erie, Pa.
 Union Iron Works, Bangor, Me.
 Wickes Bros., Saginaw, Mich.

Saw Leveling Tables

Covel Mfg. Co., Benton Harbor, Mich.

Saw Mandrels

(See Mandrels, Saw.)

Saw Mill Carriages

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)
 American Sawmill Machinery Co., 114 Liberty, New York, & Hackettstown, N. J.
 Clark Bros. Co., Belmont, N. Y.
 Corinth Engine & Boiler Works, Corinth, Miss.
 Curtis & Co. Mfg. Co., St. Louis, Mo.
 Diamond Iron Works ("Wilkinson"), Minneapolis, Minn.
 Du Bols Iron Works, Du Bols, Pa.
 Filer & Stowell Co., Home Office, Milwaukee, Wis.
 Frick Co., Waynesboro, Pa.
 Garland, M. Co., Bay City, Mich.
 Henderson, W. K. Iron Works & Supply Co., Shreveport, La.
 LANE MFG. CO., Montpelier, Vt. (See adv. index, end of book)
 McDonough Mfg. Co., Eau Claire, Wis.

Murray, D. J. Mfg. Co., Wausau, Wis.
 Phoenix Mfg. Co., Eau Claire, Wis.
 Prescott, D. Clint Co., Menominee, Mich.
 Prescott Supply Co., Marinette, Wis.
 Southern Engine & Boiler Works (Inc.), Jackson, Tenn.
 Standard Saw Mill Machinery Co., Erie, Pa.
 Union Iron Works, Bangor, Me.
 Wheland Machine Works, Chattanooga, Tenn.
 Wickes Bros., Saginaw, Mich.

Saw Mill Feeds (Steam)

Diamond Iron Works, Minneapolis, Minn.
 Soule Steam Feed Works, Meridian, Miss.

Saw Mill Machinery

(See Machinery, Saw Mill)

Saw Mills

(See Lumber Mfrs.)

Saw Mills (Band)

ALLIS-CHALMERS CO. (Single & Double Cutting, Milwaukee, Wis. (See adv. index & branch offices, end of book)
 Clark Bros. Co., Belmont, N. Y.
 Curtis & Co. Mfg. Co., St. Louis, Mo.
 Corinth Engine & Boiler Works, Corinth, Miss.
 Diamond Iron Works ("Wilkinson," Single & Double Cutting), Minneapolis, Minn.
 Du Bols Iron Works, Du Bols, Pa.
 Filer & Stowell Co., Home Offices, Milwaukee, Wis.
 Garland, M. Co., Bay City, Mich.
 Hill, W. E. & Co., Kalamazoo, Mich.
 Humphrey Machine Co., Keene, N. H.
 Lombard Iron Works & Supply Co., Augusta, Ga.
 McDonough Mfg. Co., Eau Claire, Wis.
 Manistee Iron Works & Supply Co., Mainstee, Mich.
 Merston, Wm. B. & Co., Saginaw, Mich.
 Murray, D. J. Mfg. Co., Wausau, Wis.
 Phoenix Mfg. Co. (Portable, etc.), Eau Claire, Wis.
 Portland Iron Works (Inc.), Portland, Ore.
 Sinker-Davis Co., Indianapolis, Ind.
 Stearns Mfg. Co., Erie, Pa.
 Wickes Bros., Saginaw, Mich.
 Wisconsin Engine Co. ("Wilkin"), Corliss, Ill.

Saw Mills (Circular)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)
 Bartley, Wm. & Son (Portable), Bartley, N. J.
 Butts, W. W., Trestle, N. Y.
 Chandler & Taylor Co., Indianapolis, Ind.
 Chase Turbine Mfg. Co., Orange, Mass.
 Clark Bros. Co., Belmont, N. Y.
 Corinth Engine & Boiler Works, Corinth, Miss.
 Curtis & Co. Mfg. Co., St. Louis, Mo.
 DeLoach Mill Mfg. Co., Atlanta, Ga.
 Diamond Iron Works, Minneapolis, Minn.
 Eureka Bark Mill Co., Lancaster, Pa.
 Farquhar, A. B. Co. (Ltd.), York, Pa.
 Filer & Stowell Co., Home Offices, Milwaukee, Wis.
 Frick Co., Waynesboro, Pa.
 Gaar, Scott & Co., Richmond, Ind.
 Garland, M. Co., Bay City, Mich.
 Geiser Mfg. Co., Waynesboro, Pa.
 Hellman Machine Works, Evansville, Ind.
 Herrick, Chas. E., Northampton, Mass.
 Hill, W. E. & Co., Kalamazoo, Mich.
 Humphrey Machine Co., Keene, N. H.
 Knight Mfg. Co., Canton, O.
 LANE MFG. CO. (Lane Patent Lever-Set), Montpelier, Vt. (See adv. index, end of book)
 Lombard Iron Works & Supply Co., Augusta, Ga.
 Lovell Foundry, Fitchburg, Mass.
 McEwen Bros., Wellsboro, N. Y.
 McNamar Machine Works, Newark, O.
 Mansfield Engineering Co., Mansfield, O.
 Moltz, Jacob J., Williamsport, Pa.
 Murray, D. J. Mfg. Co., Wausau, Wis.
 New Birdsall Co., Auburn, N. Y.
 Phoenix Mfg. Co., Eau Claire, Wis.
 Port Huron Mfg. Co., Port Huron, Mich.
 Prescott, D. Clint Co., Menominee, Mich.
 Prescott Supply Co., Marinette, Wis.
 Robinson & Co., Richmond, Ind.
 Rockwood Mfg. Co., 1801 English av, Indianapolis, Ind.
 Russell & Co., Massillon, O.
 Salem Iron Works, Winston-Salem, N. C.
 Scheidler Machine Works Co., Newark, O.
 Sinker-Davis Co., Indianapolis, Ind.
 Smalley Mfg. Co., Mantowoc, Wis.

Southern Engine & Boiler Works, Jackson, Tenn.
 Sovereign Foundry & Mfg. Co., Lebanon, N. J.
 Spangler Mfg. Co., York, Pa.
 Standard Saw Mill Machinery Co., Erie, Pa.
 Stover Mfg. Co., Freeport, Ill.
 Union Iron Works, Bangor, Me.
 Watertown Engine Co., Watertown, N. Y.
 Wheland Machine Works, Chattanooga, Tenn.
 Wickes Bros., Saginaw, Mich.

Saw Mills (Drag)

Butterworth & Lowe, Grand Rapids, Mich.
 Chandler & Taylor Co., Indianapolis, Ind.
 Corinth Engine & Boiler Works, Corinth, Miss.
 Curtis & Co. Mfg. Co., St. Louis, Mo.
 Filer & Stowell Co., Home Offices, Milwaukee, Wis.
 Globe Foundry & Machine Co. (Self-Feed), Sheboygan, Mich.
 Hill, W. E. & Co., Kalamazoo, Mich.
 Howell, R. R. & Co., Minneapolis, Minn.
 Kline, Lewis T. (Drag Saw Machines), Alpena, Mich.
 LANE MFG. CO., Montpelier, Vt. (See adv. index, end of book)
 St. Albans Foundry Co., St. Albans, Vt.
 Smalley Mfg. Co., Mantowoc, Wis.
 Southern Engine & Boiler Works, Jackson, Tenn.
 Stearns Mfg. Co., Erie, Pa.
 Trevor Mfg. Co. (For Handle Factorles, etc.), Lockport, N. Y.
 Union Iron Works, Bangor, Me.
 Wickes Bros. (Belt or Steam), Saginaw, Mich.

Saw Mills (Gang)

Adams, S. & Son, Rome, N. Y.
 Bartlett, A. F. & Co., Saginaw, Mich.
 Diamond Iron Works ("Diamond" Belt, etc.), Minneapolis, Minn.
 Filer & Stowell Co., Home Office, Milwaukee, Wis.
 Henderson, W. K. Iron Works & Supply Co., Shreveport, La.
 Prescott, D. Clint Co., Menominee, Mich.
 Prescott Supply Co., Marinette, Wis.
 Stearns Mfg. Co., Erie, Pa.
 Union Iron Works, Bangor, Me.
 Wickes Bros., Saginaw, Mich.
 Wisconsin Engine Co. ("Wilkin"), Corliss, Ill.

Saw Mills (Portable)

Advance Thresher Co., Battle Creek, Mich.
 Aultman & Taylor Machinery Co., Mansfield, O.
 Burlingame, A. Co., Worcester, Mass.
 Chandler & Taylor Co., Indianapolis, Ind.
 Comstock, Geo. S. ("U. S. Standard"), Mechanicsburg, Pa.
 Corinth Engine & Boiler Works, Corinth, Miss.
 Curtis & Co. Mfg. Co., 2201 Wash'n av, St. Louis, Mo.
 De Loach Mill Mfg. Co., Atlanta, Ga.
 Enterprise Mfg. Co. ("New Buckeye"), Columbus, Ohio
 Farquhar, A. B. Co. (Ltd.), York, Pa.
 Frick Co., Waynesboro, Pa.
 Gaar, Scott & Co., Richmond, Ind.
 Geiser Mfg. Co., Waynesboro, Pa.
 Hellman Machine Works, Evansville, Ind.
 Hench & Dromgold Co., York, Pa.
 Howell, R. R. & Co., Minneapolis, Minn.
 June, D. & Co., Fremont, O.
 Keck-Gonperman Co., Mt. Vernon, Ind.
 Lombard Iron Works & Supply Co., Augusta, Ga.
 Liddell Co., Charlotte, N. C.
 Lyon Iron Works, Greene, N. Y.
 Mansfield Machine Works, Mansfield, O.
 Mecklenburg Iron Works, Charlotte, N. C.
 Port Huron Engine & Thresher Co., Port Huron, Mich.
 Reeves & Co., Columbus, Ind.
 Richmond Machine Works, Richmond, Ind.
 Robinson & Co., Richmond, Ind.
 Russell & Co., Massillon, O.
 Salem Iron Works, Winston-Salem, N. C.
 Scheidler Machine Works, Newark, O.
 Sergeant Mfg. Co., Greensboro, N. C.
 Southern Engine & Boiler Works, Jackson, Tenn.
 Spangler Mfg. Co., York, Pa.
 Sparta Iron Works Co., Sparta, Wis.
 Standard Saw Mill Machinery Co., Erie, Pa.
 Stevens, A. W. Co., Marinette, Wis.
 Thomas-Albright Co., Goshen, Ind.
 Talbott & Sons, Richmond, Va.
 Westinghouse Co., Schenectady, N. Y.

Saw Re-Toothers

Hanchett Swage Wks., Big Rapids, Mich.

Saw Sets

Atkins, E. C. & Co. (Inc.), Home Offices & Factories, Indianapolis, Ind.
 Baldwin, Tuthill & Bolton, Grand Rapids, Mich.
 Baker & Foster ("Baker" Double Tooth), 3050 Ludlow, Phila., Pa.
 Bishop, Geo. H. & Co., Lawrenceburg, Ind.
 Bonney Vice & Tool Works, 3015 Chestnut, Philadelphia, Pa.
 Disston, Hy. & Sons (Inc.), Tacony, Phila., Pa. & 75 N Washn, Chicago, Ill.
GRAMMES, L. F. & SONS, Allentown, Pa. (See adv. index, end of book)
 Humason & Beckley Mfg. Co. ("Nash's"), New Britain, Conn.
 Hurst, H. L. Mfg. Co., Canton, Ohio
 Johnson, Wm. (Hedenberg Works, Hammer, Common & Stillman Lever), Newark, N. J.
 Kilborn & Bishop Co. ("Whiting & Woodman Forged"), New Haven, Conn.
 Kohler, F. E. & Co., Canton, O.
 Matteson Mfg. Co., 128 S. Clinton, Chicago, Ill.
MORRILL, CHAS. ("Morrill"), 277 B'way, New York. (See adv. below)

THE "SPECIAL" SAW SET



MANUFACTURED BY

CHAS. MORRILL, 277 Broadway, N. Y.

National Saw Co., Newark, N. J.
 Peck, Stow & Wilcox Co. (the Elrich), South-
 ington, Conn.
 Prouty, C. & Co. (Steel), Eldred, Pa.
 Simonds Mfg. Co., Fitchburg, Mass.
 Smith, Seymour & Son (Hammer & Lever)
 Oakville, Conn.
 Smith & Hemenway Co., 108 Duane, N. Y.
 Springfield Machine Screw Co., Springfield,
 Mass.

Saw Sharpening Machines

(See Machines, Saw Sharpening; also Sharp-
 eners, Saw.)

Saw Slashers

ALLIS-CHALMERS CO., Milwaukee, Wis.
 (See adv. index & branch offices, end of book)
 Diamond Iron Works, Minneapolis, Minn.
 Filer & Stowell Co., Home Office, Milwau-
 kee, Wis.
 Garland, M. Co., Bay City, Mich.

Saw Stretchers & Retooters

Matteson Mfg. Co., 128 S. Clinton, Chicago,
 Ill.

Saw Swages

Ajax Mfg. Co. (Ihsen Bros.), 1 Jackson, Al-
 legheny, Pa.
 Atkins, E. C. & Co. ("The Victor"), Home
 Offices & Factories, Indianapolis, Ind.
 Canton Saw Co., Canton, Ohio
 Champion Saw & Gas Engine Co., Beaver Falls,
 Pa.
 Covell Mfg. Co., Benton Harbor, Mich.
 Crowell, D. J., 200 Terrace, Buffalo, N. Y.
 Disston, Henry & Sons (Inc.), Tacony, Phila.,
 Pa.
 Emerson, Smith & Co. (Solid Steel), Beaver
 Falls, Pa.
 Garland, M. Co., Bay City, Mich.
 Hauchett, Jno. & Bro., Big Rapids, Mich.
 Hauchett Swage Works (Adjustable foot Cir-
 cular Saws, etc.), Big Rapids, Mich.
 Hinds, Thos., Malone, N. Y.
 Hoe, R. & Co., 504 Grand, N. Y.
 Matteson Mfg. Co., 128 S. Clinton, Chicago, Ill.
 Mixer, J. W. Saw Tool Co. ("Mixer" Du-
 plex Saw Tooth Swage), Plymouth, Mass.
 Oldham, Joshua & Sons (Inc.), 112 26th, Brook-
 lyn, N. Y.
 Phoenix Mfg. Co., Eau Claire, Wis.
 Rogers, Sam'l C. & Co., 10 Lock, Buffalo, N. Y.
 Rowe & Trunnell, 123 W 2d, Cla., O.
 Southern Saw Works, Atlanta, Ga.

Saw Tables

(See Saw Benches or Tables; also Saw Tables
 for Metal.)

Saw Tables for Metal

Grabo, E. O., 180 Centre, New York
 Hub Machine & Tool Co. ("Acme"), 623
 Cherry, Phila., Pa.
 Johnson, Israel H., Jr., Co., 337 N. 15th,
 Phila., Pa.

Saw Teeth

Keystone Drop Forge Works (Drop Forge),
 Chester, Pa.
 Meyer, W. F. & Co. ("Diamond"), Long Isl-
 and City & N. Y. City
 Morris, Herbert, Bctz bldg., Phila., Pa.

Saw Tools

Atkins, E. C. & Co. (Inc.), Home Offices &
 Factories, Indianapolis, Ind.

Saws

(Under this heading see sub-classifications; see
 also Machinery.)

Ambler Saw Mfg. Co., Natick, Mass.
 Andrews, E. & Sons (Solid & Inserted), Wil-
 liamsport, Pa.
 Atkins, E. C. & Co. (Inc.), Home Offices &
 Factories, Indianapolis, Ind.
 Barry Saw Co., Indianapolis, Ind.
 Barcus Bros., Muskegon, Mich.
 Barnes Tool Co., New Haven, Conn.
 Birmingham Saw Works, Birmingham, Ala.
 Bishop, G. H. & Co., Lawrenceburg, Ind.
 Branch Saw Co., 817 N 2d, St. Louis, Mo.
 Broadhead, Jos., Manistee, Mich.
 Buckeye Saw Mfg. Co., Columbus, O.
 California Saw Works, 208 Mission, San Fran-
 cisco, Cal.
 Canton Saw Co., Canton, O.
 Champion Saw & Gas Engine Co., Beaver Falls,
 Pa.
 Chattanooga Saw Works, Chattanooga, Tenn.
 Clemson Bros., Middletown, N. Y.
 Curtis & Co. Mfg. Co., St. Louis, Mo.
 Decker, E. F., Albany, N. Y.
 Disston, Henry & Sons (Inc.), Tacony, Phila-
 delphia, Pa.
 Donaldson Saw Co., Rock Island, Ill.
 Edge, Frank & Co., Grand Rapids, Mich.
 Elmira Saw & Machine Co., Elmira, N. Y.
 Emerson, Smith & Co. (Ltd.), Beaver Falls, Pa.
 Fox, J. E. Saw Works (Inc.), Seattle, Wash.
 Gerlach, Peter Co., 1708 Columbus Rd.,
 Cleveland, O.
 Goes, Oscar & Co., 18 S Canal, Chicago, Ill.
 Hiles, C. A. & Co., 336 Carroll av, Chicago, Ill.
 Hastings, Arthur J. & Co., Railroad pl, New-
 York, N. Y.
 Hoe, R. & Co., 504 Grand, N. Y.
 Huther Bros., 229 Mill, Rochester, N. Y.
 Kennedy, Ralph M., 111 N 7th, Phila., Pa.
 Kentucky Saw Works (J. B. Semor, Prop.),
 Louisville, Ky.
 Lippert, E. T. Saw Mfg. Co., Millvale, Sta-
 Allegheny, Pa.
 McNiece, Wm. & Son, 515 Cherry, Philadel-
 phia, Pa.
 Mack & Winkle, 172 Skillman av, Brooklyn,
 N. Y.
 Michigan Saw Co., Saginaw, Mich.
 National Saw Co., 15 River, Newark, N. J.
 Ohlen, J. & Sons Saw Mfg. Co., Columbus, O.
 Oldham, Joshua & Sons, 112 26th, Brooklyn,
 N. Y.
 Pacific Saw Mfg. Co., 110 Beale, San Francisco,
 Cal.
 Penfield Saw Works, Bristol, Conn.
 Rowe & Trunell, 123 W 2d, Cincinnati, O.
 Schwartz, M. Sons, Bangor, Me.
 Simonds Mfg. Co., Fitchburg, Mass.
 Simonds Saw Co., San Francisco, Cal.
 Southern Saw Works, Atlanta, Ga.
 Standard Saw Co., Bradford, Pa.
 Terhune, E. L., 69 Centre, New York
 Thompson, H. G. & Son Co., 6 Elm, New
 Haven, Conn.
 Toland & Son, Front & Low, Baltimore, Md.
 Toledo Saw Co., Toledo, O.
 United Mfg. Co., Kane, Pa.
 Ward, Wm., Bay City, Mich.
 Wolters-Baley Co., Manistee, Mich.

Saws (Band)

Ambler Saw Mfg. Co., Natick, Mass.
 American Woodworking Machinery Co., Roch-
 ester, N. Y., & West St bldg, N. Y.

Atkins, E. C. & Co. (Inc.), Home Offices &
 Factories, Indianapolis, Ind.
 Bishop, G. H. & Co., Lawrenceburg, Ind.
 Canton Saw Co., Canton, O.
 Champion Saw Co. (Solid, Inserted Tooth),
 Beaver Falls, Pa.
 Clemson Bros., Middletown, N. Y.
 Curtis & Co. Mfg. Co., St. Louis, Mo.
 Disston, Henry & Sons (Inc.), Tacony, Phila.,
 Pa., & 75 W Wash'n, Chicago, Ill.
 Donaldson Saw Co., Rock Island, Ill.
 Edge, Frank & Co., Grand Rapids, Mich.
 Emerson, Smith & Co. (Ltd.), Beaver Falls,
 Pa.
 Gerlach, Peter Co., 1708 Columbus Rd.,
 Cleveland, O.
HAMMACHER, SCHLEMMER & CO.,
 133 4th av, New York. (See adv. index,
 end of book)
 Hoe, R. & Co., 504 Grand, New York
 Huther Bros., 229 Mill, Rochester, N. Y.
 Kennedy, Ralph M., 111 N 7th, Phila., Pa.
 Lippert, E. T. Saw Mfg. Co., Millvale, Sta-
 Allegheny, Pa.
 McNiece, Wm. & Son (Imported), 515 Cherry,
 Phila., Pa.
 National Saw Co., Newark, N. J.
 Oldham, Joshua & Sons, 112 26th, Brooklyn,
 N. Y.
 Simonds Mfg. Co., Fitchburg, Mass.
 Southern Saw Works, Atlanta, Ga.
 Terhune, E. L., 69 Centre, N. Y.
 Toland & Son, c Front & Low, Baltimore, Md.
 Williams & Goldenblum Co., Wallingford,
 Conn.
 Wright, Chas. E., Waterbury, Conn.

Saws (Band, Cut-Off)

Ohlen, J. & Sons Saw Mfg. Co., Columbus,
 Ohio
 Standard Saw Co., Bradford, Pa.

Saws (Band Sprue)

(See Band Sprue Sawing Machines.)

Saws (Blind Slat)

American Woodworking Machinery Co., Roch-
 ester, N. Y., & West Street bldg, New York
 Atlantic Works (Inc.), 23d & Arch, Phila.
 Fay, J. A. & Egan Co., c Front & John, Cin-
 cinnati, O.
 Hayes, E. B. Machine Co., Oshkosh, Wis.
 Ohlen, J. & Sons Saw Mfg. Co., Columbus,
 Ohio

Saws (Butchers', Etc.)

Andrews, E. & Sons, Williamsport, Pa.
 Atkins, E. C. & Co. (Inc.), Home Offices &
 Factories, Indianapolis, Ind.
 Bishop, Geo. H. Co., Lawrenceburg, Ind.
 Chatillon, Jno. & Sons ("Chatillon"), 85
 Cliff, New York
 Massachusetts Saw Works ("Diamond"), Chi-
 copee, Mass.
 Ohlen, J. & Sons Saw Mfg. Co., Columbus,
 Ohio
 Reading Hardware Co., Reading, Pa.
 Thompson, H. G. & Son Co. (Polished, also
 in Colls of 50 feet), New Haven, Conn.

Saws (Circular)

Andrews, E. & Sons, Williamsport, Pa.
 American Woodworking Machinery Co., Roch-
 ester, N. Y., & West St bldg, N. Y.
 Atkins, E. C. & Co. (Inc.), Home Offices &
 Factories, Indianapolis, Ind.
 Barcus Bros., Muskegon, Mich.
 Bishop, G. H. & Co., Lawrenceburg, Ind.
 Buckeye Saw Mfg. Co., Columbus, O.
 Canton Saw Co., Canton, O.
 Champion Saw Co. (Solid, Inserted Tooth),
 Beaver Falls, Pa.
 Chattanooga Saw Works (Solid Tooth), Chat-
 tanooga, Tenn.
 Clemson Bros., Middletown, N. Y.
 Curtis & Co. Mfg. Co., St. Louis, Mo.
 Disston, Henry & Sons (Inc.), Tacony, Phila., Pa.
 Donaldson Saw Co., Rock Island, Ill.
 Emerson, Smith & Co., Beaver Falls, Pa.
 Foucart, J. E., Williamsport, Pa.
 Gerlach, Peter Co. (Solid & Inserted), 1708
 Columbus Rd, Cleveland, O.
 Goodell-Pratt Co. (For Cutting Brass, Copper,
 Ivory, Bone, etc.), Greenfield, Mass.
 Goodspeed Machine Co., Winchendon, Mass.
**GRAMMES, L. F. & SONS (Jobbers), Allen-
 town, Pa.** (See adv. index, end of book)
 Hoe, R. & Co., 504 Grand, N. Y.
 Huther Bros., 229 Mill, Rochester, N. Y.
 Kennedy, Ralph M., 111 N 7th, Phila., Pa.

Lippert, E. Y. Saw Mfg. Co., Millvale Sta., Allegheny, Pa.
 McNiece, Wm. & Son, 515 Cherry, Phila., Pa.
 National Saw Co., 15 River, Newark, N. J.
 Ohlen, J. & Sons Saw Mfg. Co., Columbus, Ohio
 Oldham, Joshua & Sons, 112 26th, Brooklyn, N. Y.
 Pacific Saw Mfg. Co., 110 Beale, San Francisco, Cal.
 Penfield Saw Works, Bristol, Conn.
 Rowe & Trunnell, 123 W 2d, Cincinnati, O.
 Simonds Mfg. Co., Fitchburg, Mass.
 Southern Saw Works, Atlanta, Ga.
 Standard Saw Co., Bradford, Pa.
 Strange's Machine Works, Taunton, Mass.
 Tabor Mfg. Co. ("Taylor-Newbold"), 18th & Hamilton, Phila., Pa.
 Terhune, E. L., 69 Centre, N. Y.
 Toledo Saw Co., Toledo, O.
 Wolters-Bailey Co., Manistee, Mich.

Saws (Circular, for Metal)

Atkins, E. C. & Co. (Inc.), Home Offices & Factories, Indianapolis, Ind.
 Disston, Henry & Sons (Inc.), Phila., Pa.
 Huther Bros., 229 Mill, Rochester, N. Y.
 Ohlen, J. & Sons, Saw Mfg. Co., Columbus, O.

Saws (Circular, Stone)

Atkins, E. C. & Co. (Inc.), Home Offices & Factories, Indianapolis, Ind.
 Lincoln Iron Works (for Soft Stone, etc.), Rutland, Vt.
 Meyers, W. F., Long Island City, N. Y. City
 Ohlen, J. & Sons, Saw Mfg. Co., Columbus, O.

Saws (Cold)

(See Cold Saw Cutting Off Machines.)

Saws (Concave)

Atkins, E. C. & Co. (Inc.), Home Office & Factories, Indianapolis, Ind.
 Barry Saw Co., 228 S. Penn, Indianapolis, Ind.
 Canton Saw Co., Canton, O.
 Champlon Saw & Gas Engine Co., Beaver Falls, Pa.
 Disston, Henry & Sons (Inc.), Tacony, Phila., Pa.
 Emerson, Smith & Co., Beaver Falls, Pa.
 Gerlach, Peter & Co. (Circular), 1708 Columbus Rd., Cleveland, O.
 Huther Bros., 229 Mill, Rochester, N. Y.
 Lippert, E. T. Saw Mfg. Co., Millvale Sta., Allegheny, Pa.
 National Saw Co., 15 River, Newark, N. J.
 Ohlen, J. & Sons' Saw Mfg. Co., Columbus, O.
 Oldham, Joshua & Sons, 112 26th, Brooklyn, N. Y.
 Southern Saw Works, Atlanta, Ga.

Saws (Copper Slitting)

Brown & Sharpe Mfg. Co., Providence, R. I.

Saws (Cordwood)

(See Machines, Cordwood Sawing & Splitting; also Machines, Wood Sawing)

Saws (Cross-Cut)

Andrews, E. & Son, Williamsport, Pa.
 Atkins, E. C. & Co. (Inc.), Home Offices & Factories, Indianapolis, Ind.
 Champlon Saw Co., Beaver Falls, Pa.
 Curtis & Co. Mfg. Co., 2201 Wash'n av., St. Louis, Mo.
 Disston, Henry & Sons, Tacony, Phila., Pa., & 75 W. Wash'n, Chicago, Ill.
 GRAMMES, L. F. & SONS (Jobbers), Allentown, Pa. (See adv. index, end of book)
 National Saw Co., 15 River, Newark, N. J.
 Ohlen, J. & Sons' Saw Mfg. Co., Columbus, O.
 Prouty, C. & Co., Eldred, Pa.
 Root, B. M. Co., York, Pa.

Saws (Cut-Off, Wood)

(See Wood Cutting-off Machines in Machinery.)

Saws (Cylinder)

Gerlach, Peter Co., 1708 Columbus Rd., Cleveland, Ohio
 Ohlen, J. & Sons' Saw Mfg. Co., Columbus, O.

Saws (Dehorning)

Atkins, E. C. & Co. (Inc.), Home Offices & Factories, Indianapolis, Ind.
 Barnes, W. F. & John Co., Rockford, Ill.
 Bishop, Geo. H. & Co., Cincinnati, Ohio
 Disston, Henry & Sons, Tacony, Phila., Pa.
 Goodell-Pratt Co., Greenfield, Mass.
 Millers Falls Co., Millers Falls, Mass.
 Ohlen, J. & Sons' Saw Mfg. Co., Columbus, O.

Saws (Diamond)

Atkins, E. C. & Co. (Inc.), Home Offices & Factories, Indianapolis, Ind.
 Meyers, W. F., Long Island City, N. Y. City

Saws (Drag)

Atkins, E. C. Co. (Inc.), Home Offices & Factories, Indianapolis, Ind.
 Baldwin, Tuthill & Bolton, Grand Rapids, Mich.
 Canton Saw Co., Canton, O.
 Champlon Saw Co. (Solid, Inserted Tooth), Beaver Falls, Pa.
 Curtis & Co. Mfg. Co., St. Louis, Mo.
 Disston, Henry & Son (Inc.), Tacony, Phila., Pa.
 Emerson, Smith & Co. (Ltd.), Beaver Falls, Pa.
 Farquhar, A. B. Co. (Ltd.), York, Pa.
 Heebner & Sons (Horse Power), Lansdale, Pa.
 Hoe, R. & Co., 504 Grand, N. Y.
 Kline, Lewis T., Alpena, Mich.
 National Saw Co., Newark, N. J., & Middletown, N. Y.
 Ohlen, J. & Sons' Saw Mfg. Co., Columbus, O.
 Pacific Saw Mfg. Co., San Francisco, Cal.
 Simonds Mfg. Co., Fitchburg, Mass.

Saws (Flexible Back Band)

Thompson, H. G. & Son Co. ("Eureka," "Thompson's" for Cutting Metal), New Haven, Conn.

Saws (Gang)

Atkins, E. C. & Co. (Inc.), Home Offices & Factories, Indianapolis, Ind.
 Canton Saw Co., Canton, O.
 Champlon Saw Co. (Solid, Inserted Tooth), Beaver Falls, Pa.
 Curtis & Co. Mfg. Co., St. Louis, Mo.
 Disston, Henry & Sons (Inc.), Tacony, Phila., Pa.
 Donaldson Saw Co., Rock Island, Ill.
 Emerson, Smith & Co. (Ltd.), Beaver Falls, Pa.
 Foucart, J. E., Williamsport, Pa.
 Hoe, R. & Co., 504 Grand, N. Y.
 National Saw Co., 15 River, Newark, N. J., & Middletown, N. Y.
 Ohlen, J. & Sons' Saw Mfg. Co., Columbus, O.
 Simonds Mfg. Co., Fitchburg, Mass.
 Southern Saw Works, Atlanta, Ga.

Saws (Gang, Stone & Slate)

(See Stone Gang Sawing Machines.)

Saws (Grooving)

Atkins, E. C. & Co. (Inc.), Home Offices & Factories, Indianapolis, Ind.
 Champlon Saw & Gas Engine Co., Beaver Falls, Pa.
 Disston, Henry & Sons (Inc.), Tacony, Phila., Pa., & Chicago, Ill.
 Hoe, Robt. & Co., 504 Grand, N. Y.
 National Saw Co., 15 River, Newark, N. J., & Middletown, N. Y.
 Ohlen, J. & Sons Saw Mfg. Co., Columbus, O.
 Oldham, Joshua & Sons, 112 26th, Brooklyn, N. Y.
 Simonds Mfg. Co., Fitchburg, Mass.
 Standard Saw Co., Bradford, Pa.

Saws (Hack)

(See Saw Blades & Frames, Hack; also Hack Saw Machines.)

Saws (Hand)

Andrews, E. & Sons, Williamsport, Pa.
 Atkins, E. C. & Co. (Inc.), Home Offices & Factories, Indianapolis, Ind.
 Bishop, Geo. H. & Co., Lawrenceburg, Ind.
 Clemens Bros., Middletown, N. Y.
 Disston, Henry & Sons, Tacony, Phila., Pa.
 Jennings, C. E. & Co., 42 Murray, New York
 National Saw Co., 15 River, Newark, N. J., & Middletown, N. Y.
 Ohlen, J. & Sons Saw Mfg. Co., Columbus, O.
 Simonds Mfg. Co., Fitchburg, Mass.

Saws (Hollow or Trepanning)

West Haven Mfg. Co., West Haven, Conn.

Saws (Hot, Cut-off)

(See Machines, Hot Sawing.)

Saws (Ice)

Atkins, E. C. & Co. (Inc.), Home Offices & Factories, Indianapolis, Ind.
 Clemens Bros., Middletown, N. Y.
 Curtis & Co. Mfg. Co., St. Louis, Mo.
 Disston, Henry & Sons, (Inc.), Tacony, Philadelphia, Pa.
 Gerlach, Peter & Co., 1708 Columbus Rd., Cleveland, Ohio
 Gifford-Wood Co., Hudson, N. Y., & Arlington, Mass.
 Hiles, C. A. & Co., 14th & Western av., Chicago, Ill.
 Hoe, R. & Co., 504 Grand, New York
 Michigan Saw Co., Saginaw, Mich.
 National Saw Co., Newark, N. J., & Middletown, N. Y.
 Ohlen, J. & Sons Saw Mfg. Co., Columbus, O.
 Oldham, Joshua & Sons, 112 26th, Brooklyn, N. Y.
 Simonds Mfg. Co., Fitchburg, Mass.

Saws (Inserted Teeth)

Andrews, E. & Sons, Williamsport, Pa.
 Curtis & Co. Mfg. Co., St. Louis, Mo.
 Ohlen, J. & Sons Saw Mfg. Co., Columbus, O.
 Tabor Mfg. Co. ("Taylor-Newbold"), 18th & Hamilton, Phila., Pa.

Saws (Jewelers')

West Haven Mfg. Co., New Haven, Conn.

Saws (Jig)

Atkins, E. C. & Co. (Inc.), Home Offices & Factories, Indianapolis, Ind.
 Hawkins Mfg. Co., 591 Atlantic av., Boston, Mass.
 Ohlen, J. & Sons Saw Mfg. Co., Columbus, O.
 Royle, John & Sons (Inc.), (for Metal Mortising, etc.), Straight & Essex, Paterson, N. J.

Saws (Kitchen)

AMERICAN TAP & DIE CO., Greenfield, Mass. (See adv. index, end of book)
 Christy Knife Co., Fremont, O.
 Goodell-Pratt Co., Greenfield, Mass.

Saws (Metal Slitting)

Automatic Tool Co., East Norwalk, Conn.
 Le Count, Wm. G. (Metal Top), So. Norwalk, Conn.
 Ohlen, J. & Sons Saw Mfg. Co., Columbus, O.
 MORSE TWIST DRILL & MACHINE CO., New Bedford, Mass. (See adv. index, end of book.)
 OWEN MACHINE TOOL CO., Springfield, O. (See adv. index, end of book)
 Pratt & Whitney Co., Hartford, Conn.
 Thurston Mfg. Co. (Jewelers'), Providence, R. I.
 Union Twist Drill Co., Athol, Mass.

Saws (Piercing)

Gesswein, F. W. Co., 39 John, New York

Saws (Plumbers')

Atkins, E. C. & Co. (Inc.), Home Offices & Factories, Indianapolis, Ind.
 BERNZ, OTTO, S 13th & S Orange av., Newark, N. J. (See adv. index, end of book)
 Disston, Henry & Sons (Inc.), Tacony, Phila., Pa.
 National Saw Co., Newark, N. J.
 Ohlen, J. & Sons Saw Mfg. Co., Columbus, O.

Saws (Plumbers' Hollow Mill)

West Haven Mfg. Co., New Haven, Conn.

Saws (Rail & Shop)

(See also Shop Sawing Machines, Iron.)
 Atkins, E. C. & Co. (Inc.), Home Offices & Factories, Indianapolis, Ind.

FAIRBANKS, MORSE & CO. (Portable), Franklin & Monroe, Chicago, Ill. (See adv. index & branch offices, end of book.)
 Ohlen, J. & Sons Saw Mfg. Co., Columbus, O.
 Quincy-Manchester-Sargent Co. ("Q. & C.", Portable Rail Saws), Old Colony Bldg., Chicago, Ill., & 114 Liberty, N. Y.

Saws (Scroll)

American Woodworking Machinery Co., Rochester, N. Y., & West St bldg., N. Y.
 Atkins, E. C. & Co. (Inc.), Home Offices & Factories, Indianapolis, Ind.
 Disston, Henry & Sons (Inc.), Tacony, Phila., Edge, Frank & Co., Grand Rapids, Mich.
 Emerson, Smith & Co., Beaver Falls, Pa.
 Gerlach, Peter Co. (Band), 1708 Columbus Rd., Cleveland, Ohio.
 Miller's Falls Co., Miller's Falls, Mass., & 28 Warren, N. Y.
 Ohlen, J. & Sons Saw Mfg. Co., Columbus, O.
 Oliver Machinery Co., Grand Rapids, Mich.
 Port Huron Saw Co. (Ltd.), Port Huron, Mich.
 Simonds Mfg. Co., Fitchburg, Mass.

Saws (Segment)

Atkins, E. C. & Co. (Inc.), Home Offices & Factories, Indianapolis, Ind.
 Disston, Henry & Sons (Inc.), (and Veneering), Tacony, Phila., Pa.
 Donaldson Saw Co., Rock Island, Ill.
 National Saw Co., Newark, N. J., & Middletown, N. Y.
 Ohlen, J. & Sons Saw Mfg. Co., Columbus, O.
 Simonds Mfg. Co., Fitchburg, Mass.
 Standard Saw Co. (and Veneering), Bradford, Pa.

Saws (Swing)

American Woodworking Machinery Co., Rochester, N. Y., & 90 West, N. Y.
 Atkins, E. C. & Co. (Inc.), Home Offices & Factories, Indianapolis, Ind.
 Badger State Machine Co. (Improved Cut-Off), Janesville, Wis.
 Baldwin, Tuthill & Bolton, Grand Rapids, Mich.
 Bentel & Margedant Co., Hamilton, O.
 Chandler & Taylor Co., Indianapolis, Ind.
 Chase Turbine Mfg. Co. (cut-off), Orange, Mass.
 Colloday, Jos. O., 626 Race, Phila., Pa.
 Connell & Dengler Machine Co., Rochester, N. Y.
 Cordesman, Meyer & Co., 55 Central av., Cincinnati, O.
 Cordesman, Rehtin Co., Cincinnati, O.
 Curtis & Co. Mfg. Co., St. Louis, Mo.
 Diamond Iron Works, Minneapolis, Minn.
 Dodds, Alexander, Grand Rapids, Mich.
 Farquhar, A. B. Co. (Ltd.), York, Pa.
 Flier & Stowell Co., Milwaukee, Wis.
 Fischer, E. Machine Works (6-foot swing), 710 Carroll av., Chicago, Ill.
 Frank Machinery Co., 214 Terrace, Buffalo, N. Y.
 Greaves, Klusman & Co., c Cook & Alfred, Cincinnati, O.
 Hill, W. E. & Co. (Iron Frame), Kalamazoo, Mich.
 Hobbs Mfg. Co., Worcester, Mass.
 Holmes, E. & B. Machinery Co., Buffalo, N. Y.
 Howell, R. R. & Co., Minneapolis, Minn.
 Huntsville Foundry & Machine Works, Nolan & Jones (Prop's), Huntsville, Ala.
 Knight Mfg. Co., Canton, O.
LANE MFG. CO., Montpelier, Vt. (See adv. index, end of book.)
 Luther, B. G. & Co., Worcester, Mass.
 Murray, D. J. Mfg. Co., Wausau, Wis.
 Ohlen, J. & Sons Saw Mfg. Co., Columbus, O.
 Oliver Machinery Co., Grand Rapids, Mich.
 Port Huron Saw Co. (Ltd.), Port Huron, Mich.
 Porter, C. O. & A. D., Grand Rapids, Mich.
 Power, L. & Co., 20 S 23d, Phila., Pa.
 Root, B. M. Co., York, Pa.
 Seymour & Whitlock, 43 Lawrence, Newark, N. J.
 Smith, H. B. Machine Co. (Swing Cut-Off), Smithville, N. J., & 121 Liberty, New York
 Southern Engine & Boiler Works, Jackson, Tenn.
 Standard Saw Mill Machinery Co., Erie, Pa.
 Strait, H. N. Mfg. Co. (For Cooperage, etc.), Kansas City, Mo.
 Union Iron Works, Bangor, Me.
 U. S. Machine Co. (Iron Frame), Williamsport, Pa.
 U. S. Wind Engine & Pump Co., Batavia, Ill.
 Wheland Machine Works, Chattanooga, Tenn.
 White, John A. Co., Dover, N. H.
 Wickes Bros., Saginaw, Mich.
 Yerkes & Finan Woodworking Machine Co., St. Louis, Mo.

Scaffold Builders

Brown, J. K. & Co., 181 3d av., Brooklyn, N. Y.
 Chesebro, Whitman & Co., 1167 1st av., N. Y.
 Grass Mfg. Co., 125 N. 2d, Phila., Pa.
 Miller Ladder Co. (Painters, Paper Hangers, etc.), 72 Ogden pl., Chicago, Ill.
 Murray, Wm. J. Co. (Adjustable), 862 Pelham av., New York, N. Y.
 New York Patent Scaffold Co. (Patent, Safety Weight Equalizing), 17 Hope, Brooklyn, N. Y.
 Portland Extension Ladder Co. ("Excelsior" Folding Extension Trestle or Scaffold Horse), 130 Orange, Newark, N. J.

Scaffold Operating Device (Patent)

New York Patent Scaffold Co., 17 Hope, Brooklyn, N. Y.

Scagliola Work

(See Marble, Artificial.)

Scalers (Fish)

Landers, Frary & Clark, New Britain, Conn.

*Scales (Abattoir)

OSGOOD SCALE CO., Binghamton, N. Y. (See adv. index, end of book)
STANDARD SCALE & SUPPLY CO., 243 Water, Pittsburg, Pa. (See adv. index & branch offices, end of book)

Scales (Armor Plate)

(See Scales, Rolling Mill.)

*Scales (Army & Navy)

OSGOOD SCALE CO., Binghamton, N. Y. (See adv. index, end of book)
STANDARD SCALE & SUPPLY CO., 243 Water, Pittsburg, Pa. (See adv. index & branch offices, end of book)

Scales (Automatic)

Automatic Scale Co., Bridgeport, Conn.
 Avery Scale Co., North Milwaukee, Wis.
 National Automatic Weighing Machines, 137 Pearl, Boston, Mass.
 Henrichson Scale Co., 1421 Walnut st., Cincinnati, O.
OSGOOD SCALE CO., Binghamton, N. Y. (See adv. index, end of book)
 Pilouze Scale & Mfg. Co., 182 W Jackson, Chicago, Ill.

F. H. SCHULE CO.

MANUFACTURERS OF

RICE and CEREAL MILLING MACHINERY

LATEST IMPROVED SYSTEMS

MILLS FURNISHED COMPLETE

Special Separating Machines
 for Grain, Seeds, Ores, Etc.

"Libra" Automatic Scales

FOR ALL PURPOSES

SAVE TIME, LABOR AND MATERIAL

MOST ACCURATE METHODS

Use AUTOMATIC Scales

and be Up-To-Date

When writing please state your requirements.

F. H. Schule Company,

27 THAMES STREET, NEW YORK

CABLE ADDRESS, "SCHULDEICH"

Pneumatic Scale Corporation, 311 Atlantic av., Boston, Mass., & 35 River, Chicago, Ill.
 Richardson Scale Co., 15 Park Row, New York, & 122 Monroe, Chicago, Ill.
 Schenck, Carl, Ltd. (cut for technical purposes), 127 Fulton, Chicago, Ill.
SCHULE, F. H. CO., 27 Thames, New York. (See adv. in preceding column)
 Streeter-Amet Weighing & Recording Co., 140 Dearborn, Chicago
 Union Scale Co., 14 L, South Boston, Mass.
 Union Scale & Mfg. Co., Chicago, Ill.
 United States Automatic Mach. Co., 15 Beacon, Boston, Mass.
 United States Automatic Weighing Machine Co. (Inc.), 88 Walker, New York

*Scales (Bath Room)

OSGOOD SCALE CO., Binghamton, N. Y. (See adv. index, end of book)
STANDARD SCALE & SUPPLY CO., 243 Water, Pittsburg, Pa. (See adv. index & branch offices, end of book)

Scales (Beam)

Avery Scale Co., North Milwaukee, Wis.
 Buffalo Scale Co., Buffalo, N. Y.
 Chicago Scale Co., Chicago, Ill.
 Columbia Steel Lever Scale Co., 29 W. Randolph, Chicago, Ill.
 Fairbanks Co., 186 Lafayette, New York
FAIRBANKS, MORSE & CO., Chicago, Ill. (See adv. index, end of book)
 Forschner, Chas. & Sons, 206 E 19th, New York
OSGOOD SCALE CO., Binghamton, N. Y. (See adv. index, end of book)
 Peck, Stow & Wilcox Co., Southington, Conn.
STANDARD SCALE & SUPPLY CO. (Recording Beam), 243 Water, Pittsburg, Pa. (See adv. index & branch offices, end of book)
 Sargent & Co., New Haven, Conn., & 94 Center, New York
 Stephenson, L. & Co. ("Dearborn" for Wool, Cotton, Sugar, Paper, etc.), 22 Custom House, Boston, Mass.

Scales (Boiler Room)

Avery Scale Co. (Automatic Recording), N. Milwaukee, Wis.
OSGOOD SCALE CO., Binghamton, N. Y. (See adv. index, end of book)

Scales (Cattle)

(See Scales, Stock)

Scales (Cement Testing)

(See Testing Machines, Cement)

*Scales (Charging)

OSGOOD SCALE CO., Binghamton, N. Y. (See adv. index, end of book)
STANDARD SCALE & SUPPLY CO., 243 Water, Pittsburg, Pa. (See adv. index & branch offices, end of book)

Scales (Coal)

(See Scales, Platform & Wagon)

Scales (Coal, Automatic)

Avery Scale Co. (Automatic Recording), North Milwaukee, Wis.
OSGOOD SCALE CO., Binghamton, N. Y. (See adv. index, end of book)

Scales (Coal, Traveling)

Avery Scale Co. ("Avery," Automatic Checking Feed to Boilers), North Milwaukee, Wis.
OSGOOD SCALE CO., Binghamton, N. Y. (See adv. index, end of book)

Scales (Computing)

Angidile Scale Co., 153 La Salle, Chicago, Ill.
 Arithmetical Scale Co., Chattanooga, Tenn.
 Computing Scale Co. of America, Saugatuck, Conn., & Dayton, O.
 McGrew Computing Scale Co., St. Louis, Mo.
 National Scale Co., Beaver Falls, Pa.
 National Counting & Computing Co., Providence, R. I.

OSGOOD SCALE CO., Binghamton,
N. Y. (See adv. index, end of book)
Standard Computing Scale Co., Detroit, Mich.
Toledo Computing Scale Co., Toledo, O.
Triner Scale Mfg. Co. 1255 W. 21st, Chicago,
Ill.
Union Computing Machine Co. ("Union"),
Trenton, N. J., & 1 Union Sq., New York
City
Willmore Computing Scale Co., Newark, N. J.

*Scales (Cotton & Wool)

OSGOOD SCALE CO., Binghamton,
N. Y. (See adv. index, end of book)
STANDARD SCALE & SUPPLY CO., 243
Water, Pittsburg, Pa. (See adv. on follow-
ing page; branch offices, end of book)

Scales (Counter)

Chicago Scale Co., 292 W Jackson boul., Chi-
cago, Ill.
Computing Scale Co. of Dayton, Ohio
Forschner, Chas. & Sons, 206 E 19th, New York
Knowles Scale Works, Lowell, Mass.
Landers, Frary & Clark ("Turnbull's"
Spring), New Britain, Conn.
OSGOOD SCALE CO., Binghamton,
N. Y. (See adv. index, end of book)
Peck, Stowe & Wilcox Co., 27 Murray, New
York City, & Southington, Conn.
Pelouze Scale & Mfg. Co., 182 W. Jackson,
Chicago, Ill.
Reading Hardware Co., Reading, Pa.
Simplex Mfg. Co., Cleveland, Ohio.
STANDARD SCALE & SUPPLY CO., 243
Water, Pittsburg, Pa. (See adv. on follow-
ing page; branch offices, end of book)
Toledo Computing Scale Co., Toledo, Ohio
Troemner, Henry, 911 Arch, Philadelphia, Pa.
Trowbridge, J. S. Co., 16 Elm, Boston, Mass.

Scales (Crane or Suspended)

(See Scales, Suspended, for Boiler Rooms)
(Also Suspended or Crane Weighing Machines)

*Scales (Dairy)

OSGOOD SCALE CO., Binghamton,
N. Y. (See adv. index, end of book)

*Scales (Depot)

OSGOOD SCALE CO., Binghamton,
N. Y. (See adv. index, end of book)
STANDARD SCALE & SUPPLY CO., 243
Water, Pittsburg, Pa. (See adv. on follow-
ing page; branch offices, end of book)

*Scales (Dormant)

OSGOOD SCALE CO., Binghamton,
N. Y. (See adv. index, end of book)
STANDARD SCALE & SUPPLY CO., 243
Water, Pittsburg, Pa. (See adv. on follow-
ing page; branch offices, end of book)

Scales (Dump)

Avery Scale Co., North Milwaukee, Wis.
OSGOOD SCALE CO., Binghamton,
N. Y. (See adv. index, end of book)
STANDARD SCALE & SUPPLY CO., 243
Water, Pittsburg, Pa. (See adv. on follow-
ing page; branch offices, end of book)

*Scales (Elevator)

OSGOOD SCALE CO., Binghamton,
N. Y. (See adv. index, end of book)

*Scales (Factory)

OSGOOD SCALE CO., Binghamton,
N. Y. (See adv. index, end of book)

Scales (Family)

American Cutlery Co. (Steel & White Tile
Top), 193 Mather, Chicago, Ill.
Forschner, Chas. & Sons (Circular, Standard,
etc.), 206 E 19th, New York
Landers, Frary & Clark ("Columbia," "Lan-
ders"), New Britain, Conn.
OSGOOD SCALE CO., Binghamton,
N. Y. (See adv. index, end of book)
Pelouze Scale & Mfg. Co., 118 W. Jackson
boul, Chicago, Ill.

*Scales (Fish)

OSGOOD SCALE CO., Binghamton,
N. Y. (See adv. index, end of book)
STANDARD SCALE & SUPPLY CO., 243
Water, Pittsburg, Pa. (See adv. on follow-
ing page; branch offices, end of book)

*Scales (Fluid)

SCHULE, F. H. CO., 27 Thames, New
York. (See adv. index, end of book)

Scales for Balancing Planer Saws

Munson Co., Grand Rapids, Mich.

Scales for Drawing

Brown & Sharpe Mfg. Co., Providence, R. I.
Keuffel & Esser Co., 127 Fulton, New York
City

SOLTMANN, E. G.

(also Everything for the Architect, Engineer
& Draughting Room), 125 E 42d, New York.
(See adv. index, end of book)
Starrett, L. S. Co., Athol, Mass.

*Scales (Foundry)

OSGOOD SCALE CO., Binghamton,
N. Y. (See adv. index, end of book)
STANDARD SCALE & SUPPLY CO., 243
Water, Pittsburg, Pa. (See adv. on follow-
ing page; branch offices, end of book)

*Scales (Glass Works)

OSGOOD SCALE CO., Binghamton,
N. Y. (See adv. index, end of book)
STANDARD SCALE & SUPPLY CO., 243
Water, Pittsburg, Pa. (See adv. on follow-
ing page; branch offices, end of book)

Scales (Grain Testing)

Avery Scale Co., North Milwaukee, Wis.
Buda Foundry & Mfg. Co., Railway Exchange
bldg, Chicago, Ill.
Cincinnati Scale Mfg. Co., 212 Walnut, Cin-
cinnati, O.
Dutton, J. B. ("Dutton," Automatic), Detroit,
Mich.
Fairbanks, E. & T. Co., St. Johnsbury, Vt.
Howe Scale Co., Rutland, Vt.
Jones, of Binghamton, N. Y.
Nordyke & Marmon Co., Indianapolis, Ind.
OSGOOD SCALE CO., Binghamton,
N. Y. (See adv. index, end of book)
Pratt & Whitney Co., Hartford, Conn.
STANDARD SCALE & SUPPLY CO., 243
Water, Pittsburg, Pa. (See adv. on follow-
ing page; branch offices, end of book)

Scales (Hopper)

Avery Scale Co. ("Avery" Non-Automatic
Steel-yard, etc.), North Milwaukee, Wis.
Brunner, Chas., Peru, Ill.
Buda Foundry & Mfg. Co., Railway Exchange
bldg, Chicago, Ill.
Chicago Scale Co., 292 W Jackson boul, Chi-
cago, Ill.
Cincinnati Scale Mfg. Co., 212 Walnut, Cin-
cinnati, O.
Dayton Pitless Scale Co. ("Boulton's Im-
proved Pitless"), Dayton, O.
Fairbanks Co., 186 Lafayette, New York
FAIRBANKS, MORSE & CO., Franklin &
Monroe, Chicago, Ill. (See adv. index &
branch offices, end of book)
Government Standard Scale Works (M. H.
Winslow, Prop.), Terre Haute, Ind.
Howe Scale Co., Rutland, Vt., & 341 B'way,
New York
Hunt, C. W. Co., 45 B'way & West New
Brighton, New York City
Kansas City Hay Press Co., Kansas City, Mo.
MEAD-MORRISON MFG. CO., Cambridge.
Boston, Mass., & 11 B'way, New York.
(See adv. index & branch offices, end of
book)
OSGOOD SCALE CO., Binghamton,
N. Y. (See adv. index, end of book)
Pelouze Scale & Mfg. Co., 182 W Jackson, Chi-
cago, Ill.
Putnam & Co., 244 Water, New York
Queen City Scale Co., Cincinnati, O.

Richardson Scale Co., 15 Park Row, & Chi-
cago, Ill.
SCHULE, F. H. CO., 27 Thames, New
York. (See adv. index & branch offices,
end of book)
STANDARD SCALE & SUPPLY CO., 243
Water, Pittsburg, Pa. (See adv. on follow-
ing page; branch offices, end of book)
Strait, H. N. Mfg. Co. ("Monarch Dormant"),
Kansas City, Mo.

*Scales (Ice)

OSGOOD SCALE CO., Binghamton,
N. Y. (See adv. index, end of book)
STANDARD SCALE & SUPPLY CO., 243
Water, Pittsburg, Pa. (See adv. on follow-
ing page; branch offices, end of book)

*Scales (Industrial)

OSGOOD SCALE CO., Binghamton,
N. Y. (See adv. index, end of book)

*Scales (Leather Dealers')

OSGOOD SCALE CO., Binghamton,
N. Y. (See adv. index, end of book)
STANDARD SCALE & SUPPLY CO., 243
Water, Pittsburg, Pa. (See adv. on follow-
ing page; branch offices, end of book)

Scales (Liquid & Oil Weighing)

Avery Scale Co. ("Avery" Automatic), North
Milwaukee, Wis.
OSGOOD SCALE CO., Binghamton,
N. Y. (See adv. index, end of book)

*Scales (Locomotive)

OSGOOD SCALE CO., Binghamton,
N. Y. (See adv. index, end of book)
STANDARD SCALE & SUPPLY CO., 243
Water, Pittsburg, Pa. (See adv. on follow-
ing page; branch offices, end of book)

*Scales (Mill)

OSGOOD SCALE CO., Binghamton,
N. Y. (See adv. index, end of book)

*Scales (Miners' & Transporta- tion)

OSGOOD SCALE CO., Binghamton,
N. Y. (See adv. index, end of book)
STANDARD SCALE & SUPPLY CO., 243
Water, Pittsburg, Pa. (See adv. on follow-
ing page; branch offices, end of book)

*Scales (Oil)

OSGOOD SCALE CO., Binghamton,
N. Y. (See adv. index, end of book)
SCHULE, F. H. CO., 27 Thames, New
York. (See adv. index, end of book)

Scales (Pig Iron, Etc.)

(See Scales, Rolling Mill.)

Scales (Platform or Wagon)

Avery Scale Co. ("Avery" Automatic), North
Milwaukee, Wis.
Barker, Sam'l G. & Son, Scranton, Pa.
Beckman Bros., Des Moines, Iowa
Brunner, Charles, Peru, Ill.
Buda Foundry & Mfg. Co., Railway Exchange
bldg, Chicago, Ill.
Buffalo Scale Co., Buffalo, N. Y.
Chatillion, Jno. & Sons (Portable Platform
only), 85 Cliff, New York
Chicago Scale Co., 292 W Jackson boul, Chi-
cago
Cincinnati Scale Mfg. Co., 212 Walnut, Cin-
cinnati, O.
Columbia Steel Lever Scale Co., 29 W. Ran-
dolph, Chicago, Ill.
Ccmo Scales, 62 Plymouth Court, Chicago, Ill.
Dayton Pitless Scale Co. (Boulton's "Improved
Pitless"), Dayton, O.
Des Moines Scale & Mfg. Co., Des Moines, Ia.
Fairbanks Co., 186 Lafayette, New York
Fairbanks, E. & T. Co., St. Johnsbury, Vt.
FAIRBANKS, MORSE & CO., Franklin &
Monroe, Chicago, Ill. (See adv. index &
branch offices, end of book)



OSGOOD SCALE COMPANY. U.S. PATENTS

STANDARD

SUCCESSORS TO
BINGHAMTON SCALE WORKS
ESTABLISHED 1865

Binghamton, N.Y. July 1st, 1907.

Gentlemen,

Every factory, industrial plant, public or private institution should be equipped with the latest and best labor and time saving weighing machines and scales.

Public carriers Demand correct weights and are being forced to give the consumer 16 oz. to the pound.

We have many absolutely new ideas in scale construction.

If you are thinking of equipping your plant with scales of any kind or remodel your weighing apparatus it will pay you to write us for our catalog No. 50.

We call special attention to the following -

Railroad Track, Wagon of all kinds,
Industrial, Mining, Tipple, Dormant, Warehouse,
Hopper, Tank, Boiler room, Oil, Metal, Furnace
Stock Charging, Abattoir, Overhead, Tramway,
Suspended, Crane, Portable platform of all kinds,
Rolling mills, and Counter scales of all kinds.

In writing give us as full information as possible of your needs.

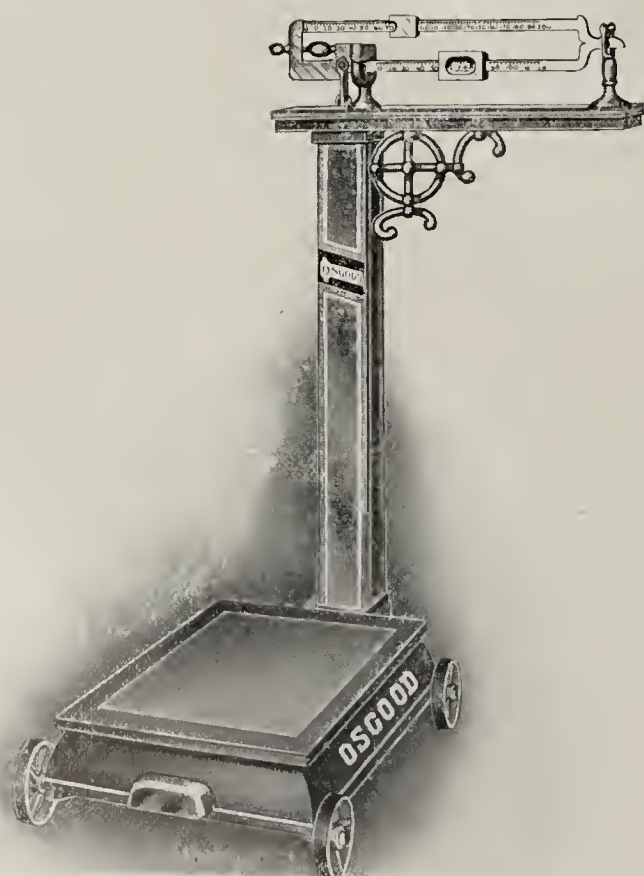
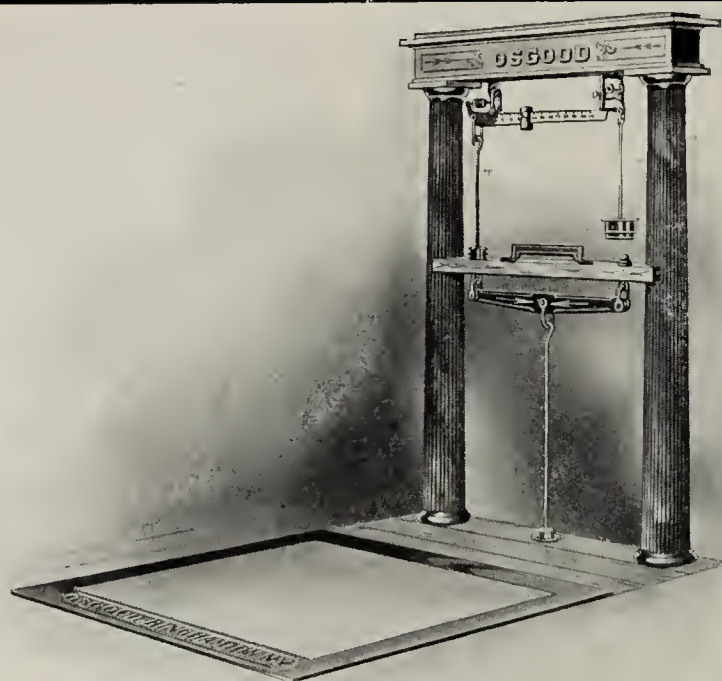
Sincerely yours,

OSGOOD SCALE COMPANY.

ELD.



(OVER)



OSGOOD SCALE CO.

FACTORY AND MAIN OFFICE:
BINGHAMTON, N. Y., U. S. A.

MAKERS OF
SCALES
OF ALL KINDS FOR ALL PURPOSES
SEND FOR CATALOGUE No. 50
WRITE US YOUR NEEDS

Forschner, Chas & Sons (Platform only), 206 E 19th, New York
Gaston's, N. B. Sons Co., Beloit, Wis.
Government Standard Scale Works (M. H. Winslow, Prop.), Terre Haute, Ind.
GRAMMES, L. F. & SONS (Jobbers), Allentown, Pa. (See adv. index, end of book)
Grand Rapids Scale Works, Grand Rapids, Mich.

Hartman, F. & Co., Grand Rapids, Mich.
Howe Scale Co., Rutland, Vt.
Hunt, C. W. Co. (for Railways & Boiler Rooms), 45 Broadway, New York
Jones of Binghamton, Binghamton, N. Y.
Kansas City Hay Press Co., Kansas City, Mo.
Kimball Bros. Co., Council Bluffs, Iowa.
Knowles Scale Works (Platform only), Lowell, Mass.

Lowell Scales Co. (Platform only), Lowell, Mass.
McDonald Bros. (Wagon & Stock), Pleasant Hill, Mo.
Meer Scale & Hdwe. Co., 385 Elizabeth, Newark, N. J.

Meyer Standard Scale Works, Newark, N. J.
Milburn Scale Co., Detroit, Mich.
Moline Pump Co., Moline, Ill.
Moline Scale Co., Moline, Ill.
Monarch Grubber Mfg. Co., Lone Tree, Iowa
Monarch Scale & Mfg. Co., 10 Court av., Des Moines, Ia.

National Pitless Scale Co., Kansas City, Mo.
Nordyke & Marmon Co., Indianapolis, Ind.

OSGOOD SCALE CO., Binghamton, N. Y. (See adv. index, end of book)

Rowley Scale & Supply Co., Detroit, Mich.

SCHULE, F. H. CO., 27 Thames, New York. (See adv. index, end of book)

Simplex Mfg. Co., Cleveland, Ohio

STANDARD SCALE & SUPPLY CO., 243 Water, Pittsburg, Pa. (See adv. below; branch offices, end of book)

Standard Scale & Foundry Co., Kansas City, Mo.

Stimpson Scale & Mfg. Co. (Wagons, Portable Platform), Northville, Mich.

Strait, H. N. Mfg. Co. ("Monarch"), Kansas City, Mo.

Weeks Scale Works, 373 7th, Buffalo, N. Y.

Zering, H. Mfg. Co. (Portable), Cincinnati, O.

*Scales (Platform, Portable)

OSGOOD SCALE CO., Binghamton, N. Y. (See adv. index, end of book)

STANDARD SCALE & SUPPLY CO., 243 Water, Pittsburg, Pa. (See adv. below; branch offices, end of book)

Scales (Postal)

Atwater, S. I., 369 B'way, N. Y.

Forschner, Chas. & Sons, 206 E 19th, New York

Hurd & Haggin, 316 Hudson, New York

OSGOOD SCALE CO., Binghamton, N. Y. (See adv. index, end of book)

Pelouze Scale & Mfg. Co., 118 W Jackson boul, Chicago

Tatum, Sam'l C. Co., 414 W Water, Cincinnati, O.

Triner Scale & Mfg. Co., 1255 W 21st, Chicago, Ill.

Scales (Railroad Track)

(See Scales, Track.)

Scales (Revolving)

Sawyer, W. H. & Sons, Americus, Ga.

Scales (Rolling Mill)

Avery Scale Co., North Milwaukee, Wis.

OSGOOD SCALE CO., Binghamton, N. Y. (See adv. index, end of book)

STANDARD SCALE & SUPPLY CO., 243 Water, Pittsburg, Pa. (See adv. below; branch offices, end of book)

Scales (Sample Weighing)

Brown & Sharpe Mfg. Co., Providence, R. I.

OSGOOD SCALE CO., Binghamton, N. Y. (See adv. index, end of book)

Scales (Spring)

Chatillion, Jno. & Sons, 85 Cliff, New York.

Henrichson Scale Co., 1421 Walnut, Cincinnati, O.

Hanson Bros., 30 W Randolph, Chicago, Ill.

Landers, Frary & Clark, New Britain, Conn.

Sargent & Co., New Haven, Conn., & 94 Centre, New York

Scales (Stock)

Avery Scale Co., North Milwaukee, Wis.

Beckman Bros. ("American"), Des Moines, Iowa

Boynton Scale Co. ("Boynton," "Old Colony"), Toledo, Iowa

Brunner, Chas. ("Acme"), Peru, Ill.

Buffalo Scale Co., Buffalo, N. Y.

Chicago Scale Co., 292 W Jackson boul., Chicago, Ill.

Dayton Pitless Scale Co. ("Boulton's Improved Pitless"), Dayton, Ohio

Des Moines Scale & Mfg. Co., Des Moines, Ia.

Des Moines Wagon Works ("Ideal"), Des Moines, Iowa

Fairbanks Co., 186 Lafayette, New York

FAIRBANKS, MORSE & CO., Franklin & Monroe, Chicago, Ill. (See adv. index, end of book)

Gaston's, N. B. Sons Co., Beloit, Wis.

Government Standard Scale Works (M. H. Winslow, Prop.), Terre Haute, Ind.

Hartman, F. & Co., Grand Rapids, Mich.

Howe Scale Co., Rutland, Vt.

Jones of Binghamton, Binghamton, N. Y.

Kansas Hay Press Co. ("Lightning"), Kansas City, Mo.

Kimball Bros. Co. ("Columbia"), Council Bluffs, Iowa

McDonald Bros. ("Economy"), Pleasant Hill, Missouri

Monarch Grubber Co. ("Royal"), Lone Tree, Iowa

Myers, Chas. H. & Co., Le Roy, Ill.

National Pitless Scale Co. ("National"), Kansas City, Mo.

North American Scale Co., 97 Haverhill, Boston, Mass.

OSGOOD SCALE CO. ("Challenge," "Hercules," "Triumph"), Binghamton, N. Y. (See adv. index, end of book)

Queen City Scale Co. (repair), Cincinnati, O.

Standard Scale & Foundry Co., Kansas City, Mo.

STANDARD SCALE & SUPPLY CO., 243 Water, Pittsburg, Pa. (See adv. below; branch offices, end of book)

Standard Scale & Mfg. Co., Northville, Mich.

Stimpson Standard Scale Co., Milan, Mich.

Strait, H. N. Mfg. Co. ("National" & "Monarch"), Kansas City, Mo.

Scales (Suspended, for Boiler Rooms)

Avery Scale Co., North Milwaukee, Wis.

Hunt, C. W. Co., 45 B'way, New York.

Works West New Brighton, S. I., N. Y.

OSGOOD SCALE CO., Binghamton, N. Y. (See adv. index, end of book)

Scales (Talking)

American Talking Scale Co., 452 5th av, New York

Scales (Tank)

OSGOOD SCALE CO., Binghamton, N. Y. (See adv. index, end of book)

*Scales (Thermometer & Barometer)

ELECTRO CHEMICAL ENGRAVING CO. (Inc.), 450 19th, Brooklyn, N. Y. (See adv. index, end of book)

OSGOOD SCALE CO., Binghamton, N. Y. (See adv. index, end of book)

STANDARD SCALE & SUPPLY CO., 243 Water, Pittsburg, Pa. (See adv. below; branch offices, end of book)

Scales (Tipple)

Avery Scale Co., North Milwaukee, Wis.

Niles Mine & Mill Supply Co., Williamson bldg, Cleveland, O., & Niles, O.

OSGOOD SCALE CO., Binghamton, N. Y. (See adv. index, end of book)

STANDARD SCALE & SUPPLY CO., 243 Water, Pittsburg, Pa. (See adv. below; branch offices, end of book)

Scales (Track)

Avery Scale Co. ("Avery" Automatic), North Milwaukee, Wis.

Barker, S. G. & Son, Scranton, Pa.

Beckman Bros., Des Moines, Iowa.

Brunner, Chas., Peru, Ill.

Buda Foundry & Mfg. Co., Railway Exchange Bldg., Chicago, Ill.

Chicago Scale Co., 292 W Jackson boul, Chicago, Ill.

Cincinnati Scale Mfg. Co., 212 Walnut, Cincinnati, O.

Fairbanks Co., 186 Lafayette, New York.

"THE STANDARD" SCALES

FOR ALL PURPOSES

GUARANTEED to be UNSURPASSED for
STRENGTH, ACCURACY and DURABILITY

MANUFACTURED BY

The Standard Scale and Supply Co.

HEADQUARTERS

243-245 Water Street, PITTSBURGH, PA.

CHICAGO, ILL., 50-52 S. Canal Street

PHILADELPHIA, PA., 35 S. 4th Street

CLEVELAND, OHIO, 24 S. Water Street

CINCINNATI, OHIO, 108 Bell Block

NEW YORK, 136 W. Broadway.



DORMANT SCALE

FAIRBANKS, MORSE & CO., Franklin & Monroe, Chicago, Ill. (See adv. index & branch offices, end of book)
Government Standard Scale Works (M. H. Winslow, Prop.), Terre Haute, Ind.
Howe Scale Co., Rutland, Vt.
Hunt, C. W. Co., West New Brighton, & 45 B'way, New York City
Jones of Binghamton, Binghamton, N. Y.
Kansas City Hay Press Co., Kansas City, Mo.
KOPPEL ARTHUR CO., 68 Broad, New York. (See adv. index & branch offices, end of book)
MEAD-MORISON MFG. CO., Cambridge Mass., & 11 Broadway, New York. (See adv. index & branch office, end of book)
OSGOOD SCALE CO., Binghamton, N. Y. (See adv. index, end of book)
STANDARD SCALE & SUPPLY CO., 243 Water, Pittsburg, Pa. (See adv. on preceding page; branch offices, end of book)
Stralt, H. N. Mfg. Co. ("Monarch"), Kansas City, Mo.
WIENER, ERNST, 68 Broad, New York. (See adv. index, end of book)

*Scales (Trolley Track)

COBURN TROLLEY TRACK MFG. CO., Holyoke, Mass. (See adv. index, end of book)
OSGOOD SCALE CO., Binghamton, N. Y. (See adv. index, end of book)

Scalpers (Corn Mill)

Nordyke & Marmon Co. (Round Reel & Hexagon), Indianapolis, Ind.

*Scalpers (Sieve)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

Scenic Artists

Lash, Lee Studios, 142 W 39th, New York
Sosman & Laudis, 236 S Clinton, Chicago, Ill.
Story, O. L. Scenic Co. (Inc.), 21 Tuffts, Somerville, Mass.

Scissors (Sardine)

Johnson, Wm. (Hedenberg Works), Newark, N. J.

Scoops (Cheese)

American Cutlery Co., 193 Mather, Chicago, Ill.

Scoops (Coal)

(See also Shovel & Spade Mfrs.)

Avery Stamping Co., Cleveland, O.
Beall Bros. (Inc.), Alton, Ill.
Central Stamping Co., 4 Cliff, New York
Chisholm, Wm. & Sons (Solid Cast Steel), Cleveland, O.
Hussey-Blnns Shovel Co. (Crucible Cast Steel), Pittsburg, Pa. Works: Charleroi, Pa.
Hubbard & Co., Pittsburg, Pa.
Jackson Shovel & Tool Co., Montpelier, Ind.
Mt. Pleasant Tool Co., Mt. Pleasant, Pa.
National Enameling & Stamping Co., Cass av & 2d, St. Louis, Mo., & 374 B'way, New York
New Castle Shovel Co., New Castle, Ind.
Pfeifer, Jno. & Co., 224 Race, Phila., Pa.
Pittsburg Shovel Co., Frick bldg, Pittsburg, Pa. Works, Leechburg, Pa.
Stoutenborough, X., 277 Pearl, New York
Union Furnace Co., Union Furnace, Pa.

Scoops (Furnace)

Beall Bros. (Inc.), Alton, Ill.
Chisholm, Wm. & Sons (Solid Cast Steel), Cleveland, O.
Hussey-Blnns Shovel Co. (Crucible Cast Steel for all Purposes), Pittsburg, Pa. Works: Charleroi, Pa.
Hubbard & Co., Pittsburg, Pa.
Kohler, F. E. & Co., Canton, O.
Mt. Pleasant Tool Co., Mt. Pleasant, Pa.
New Castle Shovel Co., New Castle, Ind.
Pittsburg Shovel Co., Frick bldg, Pittsburg, Pa. Works, Leechburg, Pa.
Pfeifer, Jno. & Co., 224 Race, Phila., Pa.
Union Furnace Co., Union Furnace, Pa.

Scoops (Grain)

Beall Bros. (Inc.), Alton, Ill.
Chisholm, Wm. & Sons, Cleveland, O.

Hussey-Blnns Shovel Co. (Crucible Cast Steel), Pittsburg, Pa. Works, Charleroi, Pa.
Hubbard & Co., Pittsburg, Pa.
Mt. Pleasant Tool Co., Mt. Pleasant, Pa.
New Castle Shovel Co., New Castle, Ind.
Pfeifer, Jno. & Co., 224 Race, Phila., Pa.
Pittsburg Shovel Co., Frick bldg, Pittsburg, Pa. Works, Leechburg, Pa.
Union Furnace Co., Union Furnace, Pa.

Scoops (Potato, Corn, Etc.)

Continental Tool Co., Frankfort, N. Y.
Hubbard & Co., Pittsburg, Pa.
Mt. Pleasant Tool Co. (Malleable Iron), Mt. Pleasant, Pa.

Scoops (Scale)

Freeman Mfg. Co. (Wooden), Kalkaska, Mich.
Lalance & Grosjean, 19 Cliff, New York City.
McMorran, Edw. E. & Co., 15 N. Clinton, Chicago, Ill.
National Enameling & Stamping Co., Cass av, cor. 2d, St. Louis, Mo.
Philadelphia Scoop Co., 134 N. 2d, Philadelphia, Pa.

Scoops (Tunneling)

Pollard, Jos. G., 141 Raymond, Brooklyn, N. Y.

Scourers (Wheat & Buckwheat)

Sprout, Waldron & Co., Muncy, Pa.

Scow Builders (River)

Howard Ship Yards Co. (Scow & Barge), Jeffersonville, Ind.
Perth Amboy Dry Dock Co. (Brick & Freight), Perth Amboy, N. J.

Scrap Brass

Atlas Smelting & Refining Co., 1012 German-town av, Phila., Pa.
Bers, E. & Co., Phila., Pa.
Culbert, John C., Pawtucket, R. I.
Dolgoft, Jas. L., Bridgeport, Conn.
Duquesne Reduction Co., Pittsburg, Pa.
Fort Wayne Smelting & Refining Works, Fort Wayne, Ind.
Goldberg & Rathman, 289 Commercial, Boston, Mass.
Glacomo, San Sons, 9 Abel, Newark, N. J.
Grimm, Paul, 309 Water, New York
Gruenebaum, L., 418 E 7th, Cincinnati, O.
Hofeller, Theo. & Co., Buffalo, N. Y.
Illinois Smelting & Refining Co., 122 N Peoria, Chicago, Ill.
Kahn Bros., 517 E 19th, New York
Lehman Bros., Hoboken, N. J.
Lake Erie Smelting & Refining Co., Cleveland, London, N., 31 Peck st, New York O.
Moers, Albert A., 412 Grand, Jersey City, N. J.
Moore, C. W., 39 E Washington, Bridgeport, Conn.
Peerless Smelting & Refining Co., Phila., Pa.
Shonberg, I., 63 Hudson av, Brooklyn, N. Y.
Smith, Morton B. Co., 243 Front, New York

Scrap Iron & Steel

(This list is published for Purchasing Purposes and comprises only the Larger Firms who make a specialty of Scrap Iron & Steel.)

ALABAMA.

BIRMINGHAM—Weller, J. P.

CALIFORNIA.

SAN FRANCISCO—Burnstine Bros., 534 Brannan
Harley, Chas. Co., 844 Harrison

COLORADO.

DENVER—Consolidated Iron & Metal Co., 2209 Larimer

CONNECTICUT.

BRIDGEPORT—Rogers, M. H., 461 Housatonic

WATERBURY—Waterbury Scrap Iron Co.

DELAWARE

WILMINGTON—Stirlith Bros.

GEORGIA.

ATLANTA—May & Spalding, 625 Marietta

ILLINOIS.

CHICAGO—Block-Pollak Iron Co., 1st Nat'l Bk. Bldg., & Carthage, Cincinnati, O.
Blonder Bros., 161 W Chicago av
Bregman, L. I. & Co., Railway Exch. bldg
Buda Foundry & Mfg. Co., Railway Exchange bldg.
Goldstein & Marks, 112 W Harrison
Illinois Iron & Metal Co., 183 W Taylor
Joseph, Isaac Iron Co., Monadnock blk
Lanski, I. & Son Co., W 22d cor S Jeff
Levine, A. & Co., 1461 State
Marks, H. & Son, 7 Blue Island av
Morris, S. & Co., 462 S Canal
Ohlo Iron & Metal Co., First Natl. Bank
Stern, Harris, 272 S Clinton bldg
Western Iron & Steel Co., 40th & Union
Williams, Jacob, 403 S Canal av
HARVEY—Buda Foundry & Mfg. Co.
PEORIA—Cohen, M. J., 2500 S Wash'n
Lanski, I. & Son Scrap Iron Co., ft Walnut
QUINCY—Rupp, Geo. & Bros. Co.
ROCK ISLAND—Morris & Lewis.

INDIANA.

EVANSVILLE—Filgeltaub, Henry
Ritter & Sauer
INDIANAPOLIS—Falender, S. & Co.

KENTUCKY.

LOUISVILLE—O'Brien, P.
Weber, Simon & Son

LOUISIANA.

NEW ORLEANS—Doran, Wm.
Marx, Alphonse

MARYLAND.

BALTIMORE—Baltimore Iron & Metal Co., 1607 Gough
Bowman, Wm., 1325 Eastern av.
Monumental Iron & Metal Co., 228 W Pratt
Wehr, H. & Co., Pratt & President
Winternitz, Hiram & Co., 221 S Howard.
Woolford, N. B., 914 S B'way
FREDERICK—Kennedy, L. E.

MASSACHUSETTS.

BOSTON—Broomfield, Phillip & Co. (also Scrap Rubber), 309 Atlantic av
Doane, G. B. & Son, Midway, S. B.
Eastern Forge Co. (of Massachusetts), 70 Kilby
Houdlette, Fred. A. & Son, 93 Broad
Miller Bros., 280 Bremen (E. B.)
Perry, Wm. H. Co., 43 Stillings
Ruben, Max W., 308 Atlantic av.
Stewart, Jas. & Co., 240 A, S. B.
CAMBRIDGE—Fine, Chas. E. C.
Henderson, Chas. W.
FALL RIVER—Dunn, Wm. J.
FITCHBURG—Hardy, John
HOLYOKE—Flisk, H. P. & Sons
LOWELL—Harris, A. J. & Co.
NEW BEDFORD—McCollough, John
SPRINGFIELD—Ehrlich, A. B. & Co.
WORCESTER—Buxton, E. & Son Co.

MICHIGAN.

DETROIT—Cohen, Alex. Iron Co., 20 Franklin
Ginsburg, R. L. & Sons, 84 Adelalde
Goldman, A. & Co., 299 Beaublen
Riverside Scrap Iron & Metal Co.
GRAND RAPIDS—Michigan Iron & Metal
KALAMAZOO—Polasky, Geo. Co.
LANSING—Simon, Abram (Estate of)
SAGINAW—Cilnkofstine, Layne S.

MINNESOTA.

MINNEAPOLIS—George, J. W., 303 S 3d

MISSOURI.

ST. LOUIS—Hirsch Rolling Mill Co.
Mayer, Moritz & Son, 4206 Finney av.
Sonken, Goldstein & Co., 704 S 3d
Werthan & Co., ft Dorcas

NEW JERSEY.

HOBOKEN—Lehman Bros.
JERSEY CITY—Contey, Fred M., 317 Grand
Contey, Pat'k, 378 1st
Contey, L. & Son, 430 Mont'g
Jersey Rubber & Metal Co., 81 Hudson
NEWARK—Benisch, Chas. & Son
Walsh's Sons & Co., 299 Passaic, Newark, N. J.
PERTH AMBOY—Gregory, Jno. H.
PHILLIPSBURG—Danby & Son
Gibney, Richard
Vetter, Casper & Son

NEW YORK.

BUFFALO—Buffalo House Wrecking & Salvage Co., 1542 Michigan
Benjamin Iron & Steel Co., D. S. Morgan bldg
Fischer, A., 66 Terrace
Hofeller, Theo. & Co., 98 Terrace
Lichtenstein, M. & Son, 350 Clinton
Michel, Louis, 29 Wash'n
Ullman, Jacob, 44 Lloyd
Ullman's, D. Sons, 229 Van Rensselaer
NEWBURGH—Hart, Patrick

NEW YORK CITY.**Borough of Brooklyn.**

BROOKLYN—Alexandre & Meyer, 150 3d av
Blume, H., 556 Myrtle av
Samuel, M. & Sons, 214 Kent av
Smith, Thos. & Son, 445 Leonard
Watson, Andw., 44 Withers

Boroughs of Manhattan & Bronx

NEW YORK CITY—Blake, M. J. & M., 79 10th av
Continental Iron & Steel Co., 68 Broad
Danvers, R. E., 428 E 18th
Green & Shonberg, Morton bldg
Imperial Metal Co. (Inc.), 105 N Moore
Jane Old Metal Co., 20 Jane
LEAVITT, C. W. & CO., 222 Broadway.
(See adv. index, end of book)
Leonard, Jno. & Co., 149 B'way
Lowy, D. & Co., 68th 10th av
Metropolitn Iron & Steel Co., 210 11th av
Metropolitan Smelting & Refining Co., 92 New Chambers
Relss, Edw. S., 32 B'way.
Seymour, Chas. F., 72 10th av
Smith, Morton B. Co., 243 Front
U. S. METAL & MFG. CO., 25 Broad.
(See adv. index, end of book)

Borough of Queens.

LONG ISLAND CITY—Daly, Jno. J.
(END OF NEW YORK CITY)
ROCHESTER—Allen & Hurwitz
Hey & Co.
UTICA—Baxter, T. W. & Co.

NORTH CAROLINA.

CHARLOTTE—Yarbrough & Bellinger Co.

OHIO.

AKRON—American Scrap Iron Co. (Rails, Beams, etc.)
CANTON—Canton Iron & Metal Co.
CINCINNATI—Fettig, Jos., 1910 Plum
Hilb & Bauer, 824 W Front
Hirsch, I. C. Iron, Steel & Rail Co.
Joseph, Isaac Iron Co., 525 Reading rd
Klein & Cohn, 830 Wade
Wolf, L. & Bro., Mitchell bldg
CLEVELAND—Cohen, Nagusky & Co., 184 Willson av
Hathaway, A. G. & Co., Cuyahoga bldg.
Hirsch, Wm. D. & Co., Cleveland, O.
Schwartzberg, E. A., Garfield bldg
Shimer, Saml. M. Co., Meech & Angellne
Schonthal, Jos., Iron Co.
COLUMBUS—Kilbourne, A. W., 450 W Spring
DAYTON—Israel Bros.

NORWALK—Rotter, A.
SPRINGFIELD—Landau & Schall
TOLEDO—Gerson, I. & Sons.
YOUNGSTOWN—Rolland, J. W. & Son,
Wilkoff Bros. Co.

PENNSYLVANIA.

ALLEGHENY—Dreifus, Jos., Park bldg
Jones, J. B. & Co., 712 Lacoek, E A
Solomon, Julius, 2025 Knox
Streng, M. Sons Co.
ALLENTOWN—Sofransky, H. & Son
DANVILLE—Deen-Perry Co.
ERIE—Brown & Thomas
Quigley, Martin
LANCASTER—Hahn, J. F.
NORRISTOWN—Furlong, Andrew
Gotwals, W. L.
OXFORD—Doyle, Patrick
PHILADELPHIA—Bailey, R. M. & Co., Arcade bldg
Bush, Chas., Drexel bldg
Buxton, E. & Son Co. (of Worcester, Mass.), Penna. bldg
Caine, John J., Real Estate Trust bldg.
Caine & Plitt, Real Estate Trust bldg
Conrad, Thos. P. & Co., 2 S 15th
Cox, Justus J. & Co., Land Title bldg
Cunliffe, Robt. M., 140 Wash'n av
Dallett & Co., Harrison bldg
De Cou, Richard, 12th & Nohle
Dreifus, Chas. & Co., No American bldg
Dreifus, Emanuel & Co., Arcade bldg
Eckbold's, Wm. Sons, 707 E Girard av
Fraley, S. C. & Sons, 515 Richmond
Gillingham, H. F. & Co., 2131 Master
Girard Iron & Metal Co., E York & Aramingo
Goldstein's, L Sons, Richmond & E Allegheny avs
Henning, Jno. & Son, 1016 E Susquehanna av
Hiltner's, Hy. A. Sons Co. (also Metals, etc.), Pennsylvania bldg
Houston, C. B. & Co., Girard bldg
Johnson, Geo. T. & Co., Penna. bldg
Kaiser, A. V. & Co., 222 S 3d
Keeley, Jerome & Co., 421 Chestnut
Kensil, Lewis & Co., 1024 Gtn av
Law, Ernest & Co., Harrison bldg
Mohr, J. J. (Old Car Wheels, etc.), Bulitt bldg
Newklrk, Jno. B. & Co., Harrison bldg
Perry, W. H. Co., Real Est Trust bldg
Phillips, F. R. & Sons Co., Penna bldg
Purves Machinery & Iron Co., 17 South
Samuel, Frank (Firm of), Harrison bldg
Tyroler Bros., 19th & Wash'n av
Well, Morris & Sons, 837 N 3d
Weston, Donaldson (Relaying Rails, etc.), 421 Chestnut
Wheeler, Miffin & Co., Arcade bldg
Wilson, E. H. & Co., Arcade bldg
Wlster, L. & R. & Co., Bullitt bldg
Wood, A. M. Co., Arcade bldg
PITTSBURG—Bowes, Homer, Bliou bldg
Dreifus, Chas. & Co., Frick bldg
Higgins & Son, Pike nr 18th
Koehler & Streng Co., 2830 Liberty av
McDermott, Jno. J., 1st cor Penn av
McLean, Geo. A. & Co., Lewis blk
Maloney, T. J., Railroad & 29th
Moore, Edgar M. & Co., Farmers' Bank bldg
SCRANTON—Derry, A. L. Co.
WILKESBARRE—Fisher, Louis I.
Meyer Bros.

RHODE ISLAND.

PROVIDENCE—Higgins, J. H. & Co.
Perry, Wm. H. Co.
Pettis, B. H. Co.

WISCONSIN.

LA CROSSE—La Crosse Scrap Iron & Metal Co.
MILWAUKEE—Hendee, C. A. Co.
Jones, E. P. & Bro.

Scrap Rubber

Bers, E. & Co., 22 S Delaware av, Philadelphia, Pa.
Broomfield, Philip & Co. (also Scrap Iron & Steel), 309 Atlantic av, Boston, Mass.
Contey, L. & Son, 430 Mont'g, Jersey City, N. J.
Green & Shonberg, Morton bldg, New York
Grimm, Paul, 309 Water, New York
Hofeller, Theo. & Co., 98 Terrace, Buffalo, N. Y.

Jersey Rubber & Metal Co., 81 Hudson, Jersey City, N. J.
Kilbourne, A. W., 450 W Spring, Columbus, O
Lehman Bros., Hoboken, N. J.
Moers, E. M. & Sons, 7 James Slip, N. Y.
Schwab & Co., Phila., Pa.
Trenton Gutta Percha & Rubber Separating Co., Trenton, N. J.
Trenton Scrap Rubber Supply Co., Trenton, N. J.
U. S. Waste Rubber Co., Brockton, Mass.
Waish's Sons & Co., 299 Passaic, Newark, N. J.

Scrapers (Asphalt)

Duriach, I. (5 foot handle), 54 Vesey, New York

Scrapers (Box & Plumbers')

Atkins, E. C. & Co. (Inc.) (Floor & Cabinet Bench), Home Offices & Factories, Indianapolis, Ind.
BERNZ, OTTO, S 13th & S Orange av, Newark, N. J. (See adv. index, end of book)
Bradley's, G. W. Sons (Inc.), (Box only), Westport, Conn.
Braunsdorf-Mueller Co., Elizabeth, N. J.
Britt & Page (Universal Wood), Lowell, Mass.
Browne & Dowd Mfg. Co. (Plumbers), Meriden, Conn.
Carver Tool Works, Spring Valley, N. Y.
Chapln-Stephens Co., Pine Meadows, Conn.
Dicke Tool Co., Downers Grove, Ill.
Drew, C. & Co., Kingston, Mass.
Johnson, Wm. (Hedenberg Works), Newark, N. J.
Kraeuter & Co., Newark, N. J.
Peck, Stow & Wilcox Co., Southington, Conn.
Stortz, Jno. & Son, 210 Vine, Phila., Pa.
Vaughn & Bushnell Mfg. Co. ("V. & B." Box only), 875 W. Carroll av, Chicago, Ill.
Willcox, Crittenden & Co., Middletown, Conn.

Scrapers (Burning Off)

Stortz, Jno. & Son, 210 Vine, Phila., Pa.

Scrapers (Butchers' Block)

Bradley's, G. W. Sons (Inc.), Westport, Conn.
Browne & Dowd Mfg. Co., Meriden, Conn.
Chatillon, John & Sons, 85 Cliff, N. Y. City
National Saw Co., Newark, N. J.
Simonds Mfg. Co., Fitchburg, Mass.
Starrett, L. S. Co., Athol, Mass.
Vaughan & Bushnell Mfg. Co., Chicago, Ill.

Scrapers (Cabinet, Etc.)

Starrett, L. S. Co., Athol, Mass.

Scrapers (Coke)

Niles Mine & Mill Supply Co., Williamson, bldg, Cleveland, O., & Niles, O.
Solid Steel Tool & Supply Co., Farmers' Bank bldg, Pittsburg, Pa.

Scrapers (Cotton)

Atlanta Agricultural Works ("Atlanta"), Atlanta, Ga.
Avery, B. F. & Sons, Louisville, Ky.
Blount, Henry F., Evansville, Ind.
Empire Plow Co. ("Oliver"), Ensley, Ala. & Cleveland, Ohio
Hall, Jas. H. Plow Co., Maysville, Ky.
Rock Island Plow Co., Rock Island, Ill.
Southern Plow Co., Columbus, Ga.

Scrapers (Drag Wheel)

(See Road Scrapers, Drag & Wheel.)

Scrapers (Floor)

Contractors' Supply & Equipment Co., Old Colony bldg, Chicago, Ill.
Hurley Machine Co., 153 S. Jefferson, Chicago, Ill.
OSBORNE MFG. CO. (Iron Head Rubbers), 5401 Hamilton av N E, Cleveland, Ohio
(See adv. index, end of book)
Starrett, L. S. Co. (For Floors, Benches, etc.), Athol, Mass.
Vaughn & Bushnell Mfg. Co. ("V. & B." Steel Blades), 875 W Carroll av, Chicago, Ill.

Scrapers (Foot)

Arcade Mfg. Co. ("Arcade"), Freeport, Ill.
Columbia Grey Iron Co., Columbia, Pa.
Davis Mfg. Co., Milwaukee, Wis.
Griffin Mfg. Co., Erie, Pa.
National Mfg. Co., Sterling, Ill.
National Novelty Corporation, 826 B'way, New York
Peck, Stow & Wilcox Co., 27 Murray, N. Y. City

Pleuger & Henger Mfg. Co., St. Louis, Mo.
Pratt, Wm. E. Mfg. Co. (Steel), 91 Lake, Chicago, Ill.

Reading Hardware Co., Reading, Pa.
RICHARDS MFG. CO. (Steel) Aurora, Ill.
(See adv. index & branch offices, end of book)
Rock River Mfg. Co., Dixon, Ill.
Root Bros. Co., Plymouth, Ohio
Schreiber & Concher Mfg. Co., Dubuque, Iowa
Stover Mfg. Co. Freeport, Ill.
Weller Hardware & Foundry Co. (Cast), Horseheads, N. Y.

WILCOX MFG. CO. (Steel), Aurora, Ill.
(See adv. index, end of book)
Williams, A. C. Co., Ravenna, O.

Scrapers (Hog)

Vaughn & Bushnell Mfg. Co. ("V. & B. Sheet Steel"), 875 W Carroll av, Chicago, Ill.

Scrapers (Kettle)

Browne & Dowd Mfg. Co. ("Gem"), Meriden, Conn.

Scrapers or Cleaners (Track)

Barbour-Stockwell Co., Cambridgeport, Mass.
Brill, J. G. Co., 62d & Woodland av, Phila., Pa.

Dorner Mfg. Co. ("Reliance"), Monadnock Block, Chicago, Ill.

Ohlo Brass Co., Mansfield, O.
Kalamazoo Railway Supply Co., Kalamazoo, Mich.

Root Track Scraper Co., Kalamazoo, Mich.

Scrapers (Painters' & Paper-hangers')

Browne & Dowd Mfg. Co., Meriden, Conn.
McNiece, Wm. & Son, 515 Cherry, Phila., Pa.

***Scrapers (Pipe Line)**

PETROLEUM IRON WORKS CO.
(The "Klein"), Washington, Pa., & Farmers' Bank bldg, Pittsburg, Pa. (See adv. index, end of book)

Scrapers (Pot & Kettle)

Chrlisty Knife Co. ("Eclipse" Flexible), Fremont, O.

***Scrapers (Self-Filling)**

LIDGERWOOD MFG. CO., 96 Liberty,
New York, & Old Colony bldg, Chicago, Ill.
(See adv. index & branch offices, end of book)

Scrapers (Ship)

AMERICAN TAP & DIE CO., Greenfield,
Mass. (See adv. index, end of book)
Bradley's, G. W. Sons (Inc.), Westport, Conn.
Mack & Co., Rochester, N. Y.
Vaughn & Bushnell Mfg. Co. ("V. & B."), 875 Carroll av, Chicago, Ill.

Wilcox, Crittenden & Co., Middletown, Conn.

Scrapers (Sidewalk)

(See also Cleaners, Pavement)

Jackson Shovel & Tool Co. (Steel), Montpelier, Maynard, C. A., Northampton, Mass. Ind.
Pittsburg Shovel Co., Frick Bldg., Pittsburg, Pa. Works, Leechburg, Pa.
Union Furnace Mfg. Co., Union Furnace, Pa.

Scrapers (Stove)

Fanner Mfg. Co., Pearl st., Cleveland, O.
Lamson & Sessions Co., Cleveland, O.
Ohio Nut & Bolt Co., Berea, O.
Wire Goods Co. (For Stove Flues), Worcester, Mass.

Scrapers (Wall)

Bonney Vlse & Tool Works (Steel), 3015 Chestnut, Phila., Pa.
Richard, Stephen Co. ("S. R."), Southbridge, Mass.

***Screen Door Checks**

Arcade Mfg. Co. ("The Warner"), Freeport, Ill.
Caldwell Mfg. Co. (Caldwell & Dime), Rochester, N. Y.
Sargent & Co. (the No Slam), New Haven, Conn. & 94 Centre, New York

***Screens (Bank Counter)**

HENRY-BONNARD BRONZE CO., Mt.
Vernon, N. Y. Sales Office, 5 & 7 E 42d, New York. (See adv. index, end of book)
JACKSON, WM. H. COMPANY (A Specialty), 29 E. 17th (Union Sq.) New York.
(See adv. index, end of book)
WISCONSIN IRON & WIRE WORKS, 190
E Water, Milwaukee, Wis. (See adv. index, end of book)

Screens (Clay & Cement)

American Clay Working Machinery Co., Bucyrus, O.
Chambers Bros. Co. ("H. G. Virgin," "Elder & Dunlap"), 52d, bel. Lancaster av., Philadelphia, Pa.
Dunlap Mfg. Co., Bloomington, Ill.
JEFFREY MFG. CO., Columbus, O.
(See adv. index & branch offices, end of book)
Raymond, C. W. Co., Dayton, O.
Traylor Engineering Co., 114 Liberty, New York. Works: Allentown, Pa.

Screens (Cylindrical)

Hendrick Mfg. Co., Carbondale, Pa.

Screens (Disintegrating)

American Concentrator Co. ("New Century"), Joplin, Mo.

Screens (Door)

'See Screens, Window & Door.)

Screens (Fire Place)

(See Fire Place Furnishings.)

***Screens (Fly, Rustless)**

BURROWES, E. T. CO., 70 Free, Portland,
Me. (See adv. index & branch offices, end of book)

***Screens (Foundry)**

BUFFALO WIRE WORKS CO., 316
Terrace, Buffalo, N. Y. (See adv. index, end of book)

STANDARD SAND & MACHINE CO. (Power or Hand), 5151 St. Clair, Cleveland, O.
(See adv. index & branch offices, end of book)

WISCONSIN IRON & WIRE WORKS, 190
E Water, Milwaukee, Wis. (See adv. index, end of book)

Screens (Mining)

Altchison Perforating Co., 303 Dearborn, Chicago, Ill.

ALLIS-CHALMERS CO., Milwaukee, Wis.
(See adv. index & branch offices, end of book)
Barbee Wire & Iron Works, Lafayette, Ind., & 44 Dearborn, Chicago, Ill.

BUFFALO WIRE WORKS CO., 316 Terrace,
Buffalo, N. Y. (See adv. index, end of book)

California Perforating Screen Co., 147 Beale, San Francisco, Cal.

Carbondale Machine Co., Carbondale, Pa.

Christman Co., Massillon, O.

CITY FORGE & IRON WORKS (Andrew Plocher, Prop.), Dayton, O. (See adv. index, end of book)

CLINTON WIRE CLOTH CO., Clinton,
Mass. (See adv. index & branch offices, end of book)

Colorado Iron Works Co., Denver, Col.

Connellsville Machine & Car Co., Connellsville, Pa.

Davis, F. M. Iron Works Co., Sth & Larimer, Denver

Derver Eng. Works Co., Denver, Col.

Eagle Iron Works (Shaking, etc.), Terre Haute, Ind.

Earlington Iron Works (For Coal, etc.), Earlington, Ky.

Harrington & King Perforating Co., 224 N Union, Chicago

Helmick Foundry & Machine Co., Fairmont, W. Va.

Hendrick Mfg. Co., Carbondale, Pa.

Howard & Morse, 45 Fulton, New York

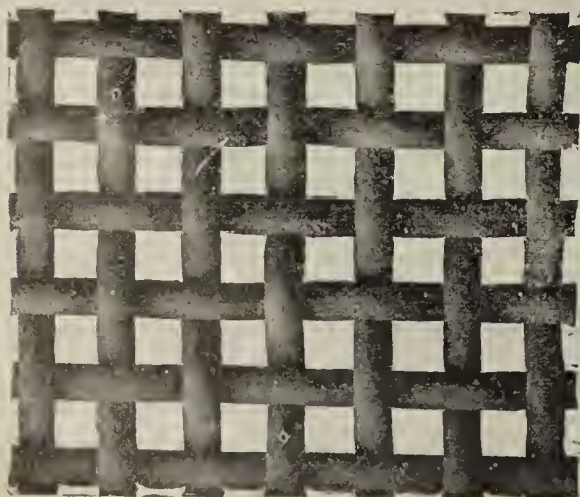
Littleford Bros., 453 E Pearl, Cincinnati, O.

Lucas, A. & Sons (Coal Mine Shaking), Peoria, Ill.

Mecklenburg Iron Works, Charlotte, N. C.

MERRITT & CO., 1024 Ridge av,
Phila. (See adv. index, end of book)

MICHIGAN WIRE CLOTH CO., 500
Howard, Detroit, Mich. (See adv. index, end of book)



Screens for Screening Every Kind of Material

THE TYLER SCREENS ARE MADE TO SUIT THE REQUIREMENT, FOR HANDLING ORE, COAL, CLAY, CEMENT, GRAIN, SAND, GRAVEL, SUGAR, SALT, FLOUR, ETC. : : : :

ROLLED SLOT SCREENS, ROLLED WIRE CLOTH and DOUBLE CRIMPED WIRE CLOTH, in all meshes and all metals

SEND FOR CATALOGUE "N"

The W. S. Tyler Company

CLEVELAND, OHIO

Mine & Smelter Supply Co., Blake & 17th, Denver, Colo.
 Mundt, Chas. & Sons, 441 Pearl, New York
 Niles Mine & Mill Supply Co., Niles, O.
 Power & Mining Machinery Co., 52 William, New York. Works, Cudahy, Wis.
 Prox, Frank Co., Terre Haute, Ind.
 San Francisco Pioneer Screen Works, 221 1st, San Francisco, Cal.
 South St. Louis Foundry, 7516 S B'way, St. Louis, Mo.
 Traylor Engineering Co., 114 Liberty, New York. Works, Allentown, Pa.
 Traylor, John A., 1634 Blake, Denver, Colo.
TYLER, W. S. CO., Cleveland, O., & 11 B'way, New York. (See adv. on preceding page; branch offices, end of book)
 Urie Boiler & Machine Co., Kansas City, Mo.
 Vulcan Iron Works, Wilkes-Barre, Pa.
 West Pittston Screen Works (Wire Coal Screens), West Pittston, Pa.
WISCONSIN IRON & WIRE WORKS, 190 E Water, Milwaukee, Wis. (See adv. index, end of book)

Screens (Revolving Water)

Sandy Hill Iron & Brass Works, Sandy Hill, N. Y.

Screens (Revolving & Shaking)

ACME ROAD MACHINERY CO., Frankfort, N. Y. (See adv. index, end of book)
ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)
 American Road Machine Co., Kennett Square, Pa.
BONNOT COMPANY (Clay Working), Canton, O. (See adv. index, end of book)
 Carlin's, Thos. Sons Co. (Revolving Only), 1200 River av, Allegheny, Pa.
 Christman Co., Massillon, O.
 Day, J. H. Co. (Sands, Clay, etc.), Cincinnati, O., & 76 Park pl., N. Y.
 Eagle Iron Works, Terre Haute, Ind.
 Exeter Machine Works, Pittston, Pa.
 Haiss, Geo. Mfg. Co. (Revolving Only), 141st & Rider av, New York
 Harrington & King Perforating Co., 224 N Union, Chicago, Ill.
 Helmick Foundry & Machine Co., Fairmont, W. Va.
 Hendrick Mfg. Co. (Revolving only), Carbon-dale, Pa.
 Howard & Morse, 45 Fulton, New York
 Krom Machine Works (Self-Cleaning Revolving, 170 Broadway, New York. Works, Jersey City, N. J.
 Link Belt Co., W 39th & Stewart av, Chicago, Ill., & 299 B'way, New York
 Littleford Bros., 453 E Pearl, Cincinnati, O.
MICHIGAN WIRE CLOTH CO., 500 Howard, Detroit, Mich. (See adv. index, end of book)
 Monongahela Mfg. Co., Monongahela, Pa.
 Mundt, Chas. & Sons, 441 Pearl, New York
 Nelsonville Foundry & Machine Co., Nelsonville, O.
 O'Laughlin, John (Revolving for Stone, Gravel, Sand, Coal, etc.), Racine, Wis.
 Pacific Tank Co., 310 Market, San Francisco, Cal., & Los Angeles, Cal.
 Phillips Mine & Mill Supply Co. (Shaking), Pittsburg, Pa.
 Prox, Frank Co., Terre Haute, Ind.
 Sackett, H. B., Screen & Chute Co., 4220 State, Chicago, Ill.
 San Francisco Pioneer Screen Works, 2221 1st, San Francisco, Cal.
SCHOLL, JULIAN & CO., 126 Liberty, New York. (See adv. index & branch offices, end of book)
 Steele & Condict (Inc.) ("Condict," Roller Bearing Revolving), 70 Pearl
 Taylor Iron & Steel Co. (Revolving & Flat), High Bridge, N. J.
TYLER, W. S. CO. (Revolving only), Cleveland, O., 7 & 11 B'way, New York. (See adv. on preceding page; branch offices, end of book)
 Union Iron Works, San Francisco, Cal.
 Vulcan Iron Works, Wilkes-Barre, Pa.
 Wallace, Saml., White Haven, Pa.
 Western Wheeled Scraper Co., Aurora, Ill.

Screens (Roller Window)

American Automatic Window Screen Co. ("Thompson" Automatic), 369 Pearl, Buffalo, N. Y.

*Screens (Rolling)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

*Screens (Safe Deposit)

WINSLOW BROS. COMPANY, Main Office & Works 2515 W. Harrison, Chicago, Ill. (See adv. index & branch offices, end of book)

Screens (Sand, Coal & Gravel)

Aitchison Perforating Co., 303 Dearborn, Chicago, Ill.
AMOS, CHAS. & CO., 94 W. Larned, Detroit, Mich. (See adv. index, end of book)
 Atlanta Wire & Iron Works Co., Atlanta, Ga.
 Barnum, E. T. Wire & Iron Works, Detroit, Mich.
 Barbee Wire & Iron Works, 44 Dearborn, Chicago, Ill., & Lafayette, Ind.
 Barker, S. G. & Son (Coal Only), Scranton, Pa.
BIGELOW, CHENEY WIRE WORKS, Springfield, Mass. (See adv. index, end of book)
BUFFALO WIRE WORKS CO., Buffalo, N. Y. (See adv. index, end of book)
 Cabbie, Wm. Excelsior Wire Mfg. Co., 43 Fulton, New York
 California Perforating Screen Co., Howard & Fremont, San Francisco, Cal.
 Carhondale Machine Co., Carhondale, Pa.
 Christman Co., Massillon, O.
CINCINNATI MFG. CO., 1243 W 6th, Cincinnati, O. (See adv. index, end of book)
CITY FORGE & IRON WORKS (Andrew Plocher, Prop.), Dayton, O. (See adv. index, end of book)
CLINTON WIRE CLOTH CO., Clinton, Mass. (See adv. index & branch offices, end of book)
DARBY, EDWARD & SONS CO., 239 Arch, Phila, Pa. (See adv. index, end of book)
 Earlington Iron Works, Earlington, Ky.
ESTEY WIRE WORKS CO., 59 Fulton, N. Y. (See adv. index, end of book)
 Gilbert & Bennett Mfg. Co., Georgetown, Conn.
 Harrington & King Perforating Co., Chicago, Ill.
 Helmick Foundry & Machine Co., Fairmont, W. Va.
 Howard A. Morse, 45 Fulton, N. Y.
 Hunt, C. W. Co., 45 B'way, & West New Brighton, N. Y. City
 Link Belt Co. (also Phosphate), W. 39th, cor Stewart av, Chicago, Ill.; and 299 B'way, New York
 Littleford Bros., 453 E Pearl, Cincinnati, O.
 Meyers, Fred. J. Mfg. Co., Hamilton, O.
MICHIGAN WIRE CLOTH CO., 500 Howard, Detroit, Mich. (See adv. index, end of book)
 Morss & Whyte Co., 75 Cornhill, Boston, Mass.
 Mundt, Chas. & Sons, 441 Pearl, New York
 Phillips Mine Supply Co., Pittsburg, Pa.
 New Jersey Wire Cloth Co., Trenton, N. J.
 Sackett Screen Co. (Steel Coal Screens Only), Fredonia, N. Y.
SMITH, F. P. WIRE & IRON WORKS, 100 Lake, Chicago, Ill. (See adv. index, end of book)
 Syracuse Wire Works, 315 E Water, Syracuse, N. Y.
TAYLOR & DEAN, 205 Market, Pittsburgh, Pa. (See adv. index, end of book)
TYLER, W. S. CO., Cleveland, O., & 11 B'way, New York. (See adv. on preceding page; branch offices, end of book)
 Union Steel Screen Co. (Ltd.), ("Union" Sand & Gravel), Albion, Mich.
 Vulcan Iron Works, Wilkes-Barre, Pa.
 What Cheer Wire Works, Providence, R. I.
 Wickwire Bros., Cortlandt, N. Y.
WISCONSIN IRON & WIRE WORKS, 190 E Water, Milwaukee, Wis. (See adv. index, end of book)
WRIGHT WIRE CO. (Also Revolving), Worcester, Mass. (See adv. index & branch offices, end of book)

Screens (Suction)

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)
 Sandy Hill Iron & Brass Works ("Packers" Diaphragm for Paper Mills), Sandy Hill, N. Y.

Screens (Window, Metal Frame)

American Screen Co., Brookline, Mass., & 95 Liberty, N. Y.
 Baker, W. J. Co., Newport, Ky.
BURROWES, E. T. CO. (Rustless), 70 Free, Portland, Me. (See adv. on following page; branch offices, end of book)
 Cincinnati Metallic Window Screen Co., Cincinnati, O.
 Higgin Mfg. Co., Newport, Ky.
 Metallic Screen Co. (Adjustable), Collins, Wis.
 Sherwood Metal Working Co., Syracuse, N. Y.
 Standard Stamping Co. ("Armstrong"), (Made to Order Only)
 Watson Mfg. Co., Jamestown, N. Y.

*Screens (Window, Spring Sliding)

BURROWES, E. T. CO. (Rustless), 70 Free, Portland, Me. (See adv. on following page; branch offices, end of book)

*Screens (Window, Top Hanger)

BURROWES, E. T. CO. (Rustless), 70 Free, Portland, Me. (See adv. on following page; branch offices, end of book)

Screens (Window & Door)

(Wholesale Mfrs. are so indicated between their name and address.)

American Screen Co. (Wholesale Mfrs.), Brookline, Mass.
 American Screen Door Co. (Wholesale Mfrs.), Adrian, Mich.
 American Window Screen Co., Ionic c. S American, Philadelphia, Pa.
 Bachman, R. K. & Bro. (Wholesale Mfrs.), Riegelsville, Pa.
 Bostwick-Godell Co., Norwalk, O.
 Burlington Venetian Blind Co., Burlington, Vt.
BURROWES, E. T. CO. (Mfrs., also Wire Insert Screens, Rustless), 70 Free, Portland, Me. (See adv. on following page; branch offices, end of book)
 Car & Adams Co., Des Moines, Ia.
 Cincinnati Fly Screen Co., Cincinnati, Ohio
 Clark, A. W. Lumher Co. (Wholesale Mfrs.), Menominee, Mich.
 Continental Co. (Wholesale Mfrs.), Penobscot bldg., Detroit, Mich., & 299 B'way, N. Y.
 Cortland Door & Window Screen Co., Cortland, N. Y.
 Cnrtls & Yale Co., Wausau, Wis.
 Cypress Tank & Mfg. Co. (Wholesale Mfrs.), Patterson, La.
 Dallas Screen Co., Dallas, Tex.
 Fish, A. E. & Co., Keene, N. H.
 Friedel, P. R. & Co. (Safe Mfrs. of "Ideal" Screws), Memphis, Tenn.
 Fuller & Rice Lumber & Mfg. Co. (Wholesale), Grand Rapids, Mich.
 Hart Mfg. Co. (Wholesale Mfrs.), Greenville, O.
 Hatch Mfg. Co. (Wholesale Mfrs.), Dallas, Tex.
 Higgin Mfg. Co. (Metal Frame), Newport, Ky.
 Hipolito Screen & Sash Co., Los Angeles, Cal.
 Horseheads Screen Door Co., Horseheads, N. Y.
 Hnhbell & Son, 169 E 39th, Chicago
 Huehner Screen Door Co., Farnsworth av & Dequindre, Detroit, Mich.
 Introstyle & Novelty Co., Marietta, O.
 I. X. L. & Goshen Pump Co. (Extension, etc.), Goshen, Ind.
 Kane Sliding Blind Co., Kane, Pa.
 Laverock, Jno. & Son (Wholesale Mfrs.), Owosso, Mich.
 McGraft N. & Son (Wholesale Mfrs.), Muskegon, Mich.
 Maclaren & Sprague Lumber Co. (Wholesale), Toledo, O.
 May & Freeman, 178 Devonshire, Boston, Mass.
 McMillan, R. Co (Wholesale), Oshkosh, Wis.
 Menke-Grimm Planing Mill Co., Quincy, Ill.
 Metal Frame Window Screen Co., Decatur, Ind.
MICHIGAN WIRE CLOTH CO., 500 Howard, Detroit, Mich. (See adv. index, end of book)
 Monroc Screen, Blind & Partition Co., Lima, O.
 Morgan Co., Factory & General Offices, Oshkosh, Wis. (For Complete List of Offices see colored pages at end of book)
 Owosso Mfg. Co. (Adjustable Frames) (Wholesale Mfrs.), Owosso, Mich.
 Patent Metal Weather Strip Co., 133 W 23d, N. Y.

Penna. Woven Wire Co., Lock Haven, Pa.
 Phenix Mfg. Co., Humboldt av., cor Centre,
 Milwaukee, Wis.
 Philadelphia Screen Mfg. Co. (Wholesale
 Mfrs.), Paschall av & 56th
 Phillips, A. J. Co. (Made to Order), Fenton,
 Mich.
 Porter Screen Mfg. Co. (Wholesale Mfrs.),
 Winooski, Vt.
 Purinton, C. F. Co. (Rolling Window Screens),
 S. Easton, Mass.
 Queen Anne Screen Co. (Wholesale Mfrs.),
 Burlington, Vt.
 Roach & Musser, Sash & Door Co. (Whole-
 sale Mfrs.), Muscatine, Iowa.
 Roebuck Weather Strip & Wire Screen Co., 207
 B'way, New York
 Screen Door & Window Co. (Wholesale Mfrs.),
 Owosso, Mich.
 Sherwood Metal Working Co. (all metal),
 Syracuse, N. Y.
SOLMSON, M. FLY SCREEN CO (Rustless),
 cor Bayard & Nanticoke, Baltimore, Md.
 (See adv. below)

THE M. SOLMSON FLY SCREEN CO.

MAKERS OF

IMPROVED RUSTLESS FLY SCREENS

Patented Nov. 1905

FACTORY AND OFFICE

Bayard and Nanticoke Streets

BOTH PHONES BALTIMORE, MD.

TAYLOR & DEAN (Made to Order), 205
 Market, Pittsburg, Pa. (See adv. index,
 end of book)
 Wabash Screen Door Co., 204 Dearborn, Chi-
 cago, Ill.
 Watson Mfg. Co. (to Order Only, "All Metal
 also Wood"), Jamestown, N. Y.
 Wheeler Screen Co., Geneva, Ill.
 Willer Mfg. Co. (to Order Only), Milwaukee,
 Wis.
WILSON, JAS. G. MFG. CO., Chief Office
 3 West 29th, New York, N. Y. Mills &
 Factory, Norfolk, Va. (See adv. index,
 end of book)

*Screens (Wire, Rustless)

BURROWES, E. T. CO. (Rustless), 70 Free,
 Portland, Me. (See adv. below; branch
 offices, end of book)
SOLMSON, M. FLY SCREEN CO., cor.
 Bayard & Nanticoke, Baltimore, Md. (See
 adv. above)

Screw Chasers

Polk, A. J. & Son, (Lathe Screw Cutting,
 etc.), Millersburg, Pa.

Screw Cutting Machines

(See Machines, Screw Cutting)

Screw Driver Mfrs.

Arcade Mfg. Co. ("Serpentine," "Arcade" &
 "Combination"), Freeport, Ill.
BERNZ, OTTO, S 13th, cor S. Orange av.,
 Newark, N. J. (See adv. index, end of
 book)
 Billings & Spencer Co. ("B. & S." Magazine
 Combination Knife & Screw Driver, etc.),
 Hartford, Conn.
 Braunsdorf-Mueller Co. (Never Twist & New
 Century & Improved Locksmith), Elizabeth,
 N. J.
 Bridgeport Hdwe. Mfg. Co., 481 Iranistan
 av Bridgeport, Conn.
 Brown, R. H. & Co. ("Clark's"), New Haven,
 Conn.
 Browne & Dowd Mfg. Co. ("I. L."), Meriden,
 Conn.
 Cassady-Fairbank Mfg. Co. ("Cassady,"
 "Premier," "Columbia" & "No. 100 &
 200"), 6106 La Salle, Chicago, Ill.
 Cincinnati Tool Co. (Hargraves), Norwood,
 Cincinnati, O.
 Clement Mfg. Co. (Vulcan Hollow Handle),
 Northampton, Mass.
 Cronk & Carrier Mfg. Co., Elmira, N. Y.
 Dicke Tool Co. (for Electrical & Machinery
 Work), Downers Grove, Ill.
 Disston, Henry & Sons (Inc.), Tacony, Pa.
 Ducharmes & Co., Shelburne Falls, Mass.
 Gay, Geo. E. ("Gay" & "Union" Double
 Acting Ratchet, Screw Driver & Drill
 Combined, "Gays's," "Natchet Spiral
 Rigid Screw Driver & Drill"), Augusta,
 Me.
 Johnson, Wm. (Hedberg Works), (In great
 Variety), Newark, N. J.
 Kendrick & Davis (Small), Lebanon, N. H.
 Kimball, C. J. Co., Bennington, N. H.
 Knapp & Cowles Mfg. Co., Bridgeport, Conn.
 Knickerbocker Hardware Co., 299 B'way,
 New York, N. Y. Works, Newark, N. J.
 Mayhew, H. H. Co., Shelburne Falls, Mass.
 Meriden Mfg. Co. ("Fairchild" Self Adjust-
 able), Meriden, Conn.
 Mueller, H. Mfg. Co., Decatur, Ill.
 New England Specialty Co., N. Easton, Mass.
 North Bros. Mfg. Co. ("Yankee" Ratchet &
 & Pocket Magazine, etc.), Lehigh av & c
 American, Phila., Pa.
 Peck, Stow & Wilcox Co., Southington, Conn.;
 Cleveland, O., & 27 Murray, New York.
 Rehm Hardware Co. (Pocket), 352 Blue Island
 av, Chicago, Ill.
 Russell & Erwin Mfg. Co. (The Swan), New
 Britain, Conn.
 Sawyer Tool Mfg. Co. ("Samson"), Fitchburg,
 Mass.
 Smith, J. Barton Co., Norris & Hope, Phila.,
 Pa.
 Smith & Egge Mfg. Co., Bridgeport, Conn.
 Smith & Hemenway Co., 108 Duane, New York
 & Mfg. Co., Fiskdale, Mass.
 Standard Tool Co., West Mansfield, Mass.
 Starrett, L. S. Co. (Pocket Jewellers, etc.),
 Athol, Mass.
 Stortz, Jno. & Son, 210 Vine, Phila., Pa.
 Swan, Jas. Co., Seymour, Conn.
 Tower & Lyon Co. ("Champion"), 95 Chambers
 Tuck Mfg. Co., Brockton, Mass. New York
 Turner & Deegan, Bristol, Conn.
 Union Mfg. Co., Buffalo, N. Y.
 United Awl & Needle Co., W. Medway, Mass.
 Vanderbeck Tool Works (Combination), Hart-
 ford, Conn.

Vaughn, Chas. A., Seitzland, Pa.
 Waltham Watch Tool Co., Springfield, Mass.
**WHITMAN & BARNES MFG. CO. ("Her-
 cules," all Steel), Chicago, Ill. (See adv.
 index & branch offices, end of book)**
 Wiebusch & Hilger ("Fairchild Adjustable"), 9
 Murray, New York

Screw Driver & Corkscrew (Combined)

Browne & Dowd Mfg. Co., Meriden, Conn.

Screw Drivers (Automatic)

Goodell-Pratt Co. (Also Ratchet Automatic
 Bench Drill), Greenfield, Mass.
 Moline Tool Co. (For Shops Having a Large
 Number of Screws to Set.), Moline, Ill.

*Screw Drivers (Flexible Shaft)

COATES CLIPPER MFG. CO. ("Coates"),
 Worcester, Mass. (See adv. index, end of
 book)

Screw-Drivers (Insulated Han- dles)

Braunsdorf-Mueller Co., Elizabeth, N. J.
 Cincinnati Tool Co. ("Hargraves") Cincinnati,
 O.
 Disston, Henry & Sons (Inc.) Tacony, Phila.,
 Pa.
 Ducharmes & Co., Shelburne Falls, Mass.

Screw Drivers (Jewelers')

Starrett, L. S. Co., Athol, Mass.

Screw Drivers (Railroad Spike)

Washburn Shops of the Polytechnic Institute,
Worcester, Mass.

Screw Eyes

American Iron & Steel Mfg. Co., Lebanon, Pa.
 Brewer Bros. (Wrought), 614 Filbert, Phila.,
 Pa.
 Brooks, M. S. & Sons (Brass & Iron Wire)
 Chester, Conn.
 Corbin Cabinet Lock Co., New Britain, Conn.
 Humason & Beckley Mfg. Co., New Britain,
 Conn.
 Hoopes & Townsend Co., 1330 Buttonwood, Phila-
 adelphia, Pa.
 Jenckes, E. Mfg. Co. (Brass & Bright Wire),
 Pawtucket, R. I.
 Kansas City Bolt & Nut Co. (1 1/4-in. dia. to
 1 3/4), Kansas City, Mo.
 Landers, Frary & Clark, New Britain, Conn.
 Moran Bolt & Nut Mfg. Co., St. Louis, Mo.
 North & Judd Mfg. Co. (Loop, etc.), New
 Britain, Conn.
 Sargent & Co., New Haven, Conn. & 94
 Center, New York
 Wilcox, Crittenden & Co., Middletown, Conn.
 Wire Goods Co. (Bright Wire & Brass Wire),
 Worcester, Mass.



Removing Sliding Screen

BURROWES'

RUSTLESS WIRE

INSECT SCREENS

MADE ONLY TO ORDER. GUARANTEED TO FIT.

Strongest Corner Construction known. Burrowes' Copronze Netting will not rust or
 corrode in any climate. Patent method of wiring without tacks prevents bagging or
 breaking away. Special Hardware. Sent on trial. We pay freight. Write for Catalog
 and free estimate.

THE E. T. BURROWES CO., 21 Spring St., PORTLAND, ME., U. S. A.



Screw Holder & Driver

Starrett, L. S. Co. (Opticians'), Athol, Mass.

Screw Jacks

(See Jacks, Screw.)

Screw Machine Work

Acorn Brass Mfg. Co., 51 N Peoria, Chicago, Ill.
 Atlantic Machine Screw Co., 48 Binford, Boston.
 Bowen Mfg. Co. (All Kinds in Brass & Steel), Auburn, N. Y.
 Grant Mfg. & Machine Co., Bridgeport, Conn.
 Hanson Bros., Plainville, Conn.
 Hill, Geo. Q. Co., 326 A. Boston, Mass.
 International Brass & Electric Co., 76 Beekman, N. Y.
 Keim, Jno. R., Kensington Av & Erie R. R., Buffalo, N. Y.
 Parham & Lawser, 712 Cherry, Phila., Pa.
 Perry-Fay Mfg. Co. (of all kinds), Elyria, O.
 Phila. Machine Screw Works, 624 Race, Phila., Pa.
 Pitt & Lienhardt, 213th & Harlem River, New York, N. Y.
 Progressive Mfg. Co. (Steel, Brass & Copper, Studs, Screws, Rivets, Threaded Wire, etc., to Order Only), Torrington, Conn.
 Smith, F. H. Mfg. Co. (Special to Order), 52 St. John ct, Chicago, Ill.
 Wells, F. E. & Son Co., Greenfield, Mass.

Screw Machinery

See Screw Cutting Machines.
 Screw Polishing Machines.
 Screw Shaving Machines.
 Screw Slotting Machines.
 Screw Thread Rolling Machines.

Screw Mfrs.

(Under this Heading see Sub-Classifications)

Aldrich, Wm. K. Co., Lowell, Mass.
 American Iron & Steel Mfg. Co., Lebanon, Pa.
 American Screw Co. ("Brass, Bronze, Copper & Iron"), Providence, R. I.
 Atlantic Machine Screw Co., 48 Binford, Boston, Mass.
 Atlantic Screw Works, Hartford, Conn.
 Chapin-Stephens Co., Pine Meadow, Conn.
 Chicago Screw Co., 2 N. Canal, Chicago, Ill.
 Cincinnati Screw & Tap Co., Cincinnati, O.
 Clark Bros. Bolt Co., Milldale, Conn.
 Cleveland Cap Screw Co., 66 Clarkwood av, Cleveland, O.
 Colorado Fuel & Iron Co., Denver, Col.
 Columbia Screw Co., 16th & Cottage Grove av, Chicago, Ill.
 Columbus Bolt Works, Columbus, O.
 Continental Bolt & Iron Works, 22d & Union, Chicago, Ill.
 Corbin Screw Corporation, New Britain, Conn.
 Detroit Screw Works, Detroit, Mich.
 Gaynor & Mitchell Mfg. Co., Bridgeport, Conn.
 Greenle, Wyatt & Co., 499 Water, New York
 Grille Co., New Haven, Conn.
 Hall's Samuel Sons, 229 W 10th, New York
 Haskell, Wm. H. Mfg. Co., Pawtucket, R. I.
 Hoopes & Townsend Co., 1330 Buttonwood, Philadelphia, Pa.
 Hope, Wm. H. & Co., Lowell, Mass.
 Humason & Beckley Mfg. Co., New Britain, Conn.
 Kansas City Bolt & Nut Co., Kansas City, Mo.
 Kinsley Iron & Machine Co., Canton, Mass.
 Kirk-Latty Mfg. Co., Cleveland, O.
 Lamson & Sessions Co., Cleveland, O.
 McCloud, Crane & Minter Co., Worcester, Mass.
 Mack, Thos. A., Mfg. Co. Jersey City, N. J.
 Michigan Bolt & Nut Works, Detroit, Mich.
 Miles, Franklin S. (Est. of), 205 Quarry, Phila., Pa.
 Milton Mfg. Co., Milton, Pa.
 Moran Bolt & Nut Mfg. Co., Florida c Main, St. Louis, Mo.
 National-Acme Mfg. Co., Cleveland, O.
 National Screw & Tack Co., Cleveland, O.
 Niagara Screw Co., 7 W. Lombard, Buffalo, N. Y.
 Ohio Nut & Bolt Co., Berea, O.
 Pawtucket Mfg. Co., Pawtucket, R. I.
 Peck, Stow & Wilcox Co., Southington, Conn.
 Penn Hardware Co., Reading, Pa.
 Penna. Shafting Co., Spring City, Pa.
 Perry-Fay Mfg. Co., Elyria, O.
 Phila. Machine Screw Works, 624 Race, Philadelphia, Pa.
 Pittsburgh Mfg. Co., 28th & R. R., Pittsburgh, Pa.
 Pittsburgh Screw & Bolt Co., Pittsburgh, Pa.
 Progressive Mfg. Co., Torrington, Conn.

Reading Hardware Co., Reading, Pa.
 Reading Screw Co., Norristown, Pa.
 Reeves Mfg. Co. (Brass Machine, etc.), New Haven, Conn.
 Republic Iron & Steel Co., Frick bldg Annex, Pittsburgh, Pa.
 Reynolds & Co., New Haven, Conn.
 Richards, F. C. Hdw. Co., Winsted, Conn.
 Rochester Machine Screw Co., Rochester, N. Y.
 Rogers Screw Co., Providence, R. I.
 Russell, Burdell & Ward Bolt & Nut Co., Port Chester, N. Y.
 Scott & Williams, 2079 Cumberland, Phila., Pa.
 Scranton Bolt & Nut Co., Scranton, Pa.
 St. Louis Screw Co., 600 S Clarence, St. Louis, Mo.
 Smith, F. H. Mfg. Co. (Special to Order), 52 St. John ct, Chicago, Ill.
 Southington Cutlery Co., Southington, Conn.
 Springfield Brass Co., Springfield, Mass.
 Steele & Johnson Mfg. Co., Waterbury, Conn.
 Turner, John D., 542 B'way, Lowell, Mass.
 U. S. Screw Co., Meriden, Conn.
 Union Steel Screw Co. (Steel), Cleveland, O.
 Waltham Screw Co., Waltham, Mass.
 Western Automatic Machine Screw Co., Elyria, O.
 Wire Goods Co., 20 Union, Worcester, Mass.
 Worcester Machine Screw Co., Worcester, Mass.
 Young Bros., Forestville, Conn.

Screw Plates

(See also Stocks & Dies.)

AMERICAN TAP & DIE CO. ("Adamantine"), Greenfield, Mass. (See adv. index, end of book)
 Billings & Spencer Co. ("Standard," "Billings" Drop Forged), Hartford, Conn.
 Boker, Hermann & Co., 101 Duane, New York
 Brubaker, W. L. & Bros., Millersburg, Pa.
 Butterfield & Co. ("Derby," "Reece's New"), Derby Line, Vt.
 Card, S. W. Mfg. Co., Mansfield, Mass.
 Carpenter, J. M. Tap & Die Co. ("Carpenter's"), Pawtucket, R. I.
 Champion Blower & Forge Co., Lancaster, Pa.
 Conant & Donelson Co. ("Little David"), Greenfield, Mass.
 Eastwood Wire Mfg. Co. (Rolled Brass), Belleville, N. J.
 Hart Mfg. Co. ("Duplex," "Oster"), Cleveland, O.
 Holroyd & Co. ("Holroyd"), Waterford, N. Y.
 MORSE TWIST DRILL & MACHINE CO. ("No. 1, A, B, C, D & E"), New Bedford, Mass. (See adv. index, end of book)
 Oster Mfg. Co., Cleveland, O.
 Pawtucket Mfg. Co., Pawtucket, R. I.
 Polk, A. J. & Son (Common Sense), Millersburg, Pa.
 Pratt & Whitney Co., Hartford, Conn.
 Reese, E. F. Co. ("Reese"), Greenfield, Mass.
 Walworth Mfg. Co., 132 Federal, Boston, Mass.
 WELLS BROS. CO. ("Little Giant"), Greenfield, Mass. (See adv. index, end of book)
 Wiley & Russell Mfg. Co., Greenfield, Mass.

Screws (Bed)

Kansas City Bolt & Nut Co., Kansas City, Mo.
 Shelton Co., Shelton, Conn.

Screws (Bench)

(See Screws, Hand & Bench)

Screws (Bibb)

Steele & Johnson Mfg. Co., Waterbury, Conn.
 Western Automatic Machine Screw Co., Elyria, O.

Screws (Bicycle)

Atlas Bolt & Screw Co., Cleveland, O.
 Chicago Screw Co. (Iron or Brass), 2 N. Canal, Chicago, Ill.
 Hartford Machine Screw Co., Hartford, Conn.
 National Screw & Tack Co., Cleveland, O.
 Rochester Machine Screw Co., Rochester, N. Y.
 St. Louis Screw Co., 600 E Clarence av, St. Louis, Mo.
 Western Automatic Machine Screw Co., Elyria, O.

Screws (Brass, Copper & Bronze)

American Pin Co. (Brass Only), Waterbury, Conn.
 American Screw Co., Providence, R. I., & 19 Lake, Chicago, Ill.
 Blake & Johnson, Waterbury, Conn.
 Bridgeport Brass Co. (To Order Only), Bridgeport, Conn., & 19 Murray, New York
 Columbia Screw Co. (Glmlet Pointed), 106th & Cottage Grove av, Chicago, Ill.
 Gaynor & Mitchell Mfg. Co. (Brass for Steam, Gas & Water Fittings), Bridgeport, Conn.
 Grille Co., New Haven, Conn.
 Haskell, Wm. H. Mfg. Co., Pawtucket, R. I.
 Hubbell, Harvey, Bridgeport, Conn.
 Hungerford, U. T. Brass & Copper Co., 497 Pearl, New York
 McCloud, Crane & Minter Co., Worcester, Mass.
 National Screw & Tack Co. (Brass Only), Cleveland, O.
 Reading Hardware Co., Reading, Pa.
 Reed & Prince Mfg. Co., Worcester, Mass.
 Rochester Machine Screw Co., Rochester, N. Y.
 St. Louis Screw Co., 600 E Clarence, St. Louis, Mo.
 Steele & Johnson Mfg. Co. (also Bronze), Waterbury, Conn.
 Union Steel Screw Co., Payne av. & E. 40th, Cleveland, O.
 Waterbury Mfg. Co. (Brass Only), Waterbury, Conn.
 Welch, T. F. & Co., 55 Sudbury, Boston.
 Western Automatic Machine Screw Co., Elyria, O.

Screws (Brass Machine)

American Screw Co., Providence, R. I.
 Atlas Bolt & Screw Co., Cleveland, O.
 Chicago Screw Co., 2 N Canal, Chicago, Ill.
 Corbin Screw Corporation, New Britain, Conn.
 Haskell, Wm. H. Mfg. Co., Pawtucket, R. I.
 McCloud, Crane & Minter Co., Worcester, Mass.
 Miles, Franklin S. (Est. of), 205 Quarry, Phila., Pa.
 Mount Carmel Bolt Co., Mt. Carmel, Conn.
 National Screw & Tack Co., Cleveland, O.
 Parham & Lawser, 712 Cherry, Phila., Pa.
 Pittsburgh Screw & Bolt Co., Pittsburgh, Pa.
 Progressive Mfg. Co., Torrington, Conn.
 Reading Screw Co., Norristown, Pa.
 Reeves Mfg. Co., New Haven, Conn.
 Reynolds & Co., New Haven, Conn.
 St. Louis Screw Co., 600 E Clarence, St. Louis, Mo.
 Standard Screw Co., 2 N. Canal, Chicago, Ill.
 Steele & Johnson Mfg. Co., Waterbury, Conn.
 Young Bros., Forestville, Conn.

Screws (Building Movers')

Boston Bolt Co., 284 Franklin, Boston, Mass.
 Kinsley Iron & Machine Co., Canton, Mass.
 New London Vise Works, New London, Conn.

Screws (Can)

Vogel, Wm. & Bros., 37 S 9th, Brooklyn, N. Y.

Screws (Cap & Set)

American Bolt Co., Lowell, Mass.
 American Iron & Steel Mfg. Co., Lebanon, Pa.
 Chicago Screw Co. (Iron & Steel), 2 N Canal, Chicago, Ill.
 Cincinnati Screw & Tap Co., 2442 Beekman, Cincinnati, O.
 Cleveland Cap Screw Co., 66 Clarkwood av, Cleveland, O.
 Corbin Screw Corporation (Also Knurled Set, etc.), New Britain, Conn.
 Detroit Screw Works, Detroit, Mich.
 Greenle, Wyatt & Co., 499 Water, N. Y.
 Hall's, Samuel Sons (Milled), 229 W. 10th, New York
 Haskell, Wm. H. Mfg. Co. (Oval, Flat, Counter Sunk, Square, Hexagon, Button & French Head), Pawtucket, R. I.
 Hoopes & Townsend Co., 1330 Buttonwood, Philadelphia, Pa.
 Hope, Wm. H. & Co., Lowell, Mass.
 Kansas City Bolt & Nut Co., Kansas City, Mo.
 Lamson & Sessions Co. (Set), Cleveland, O.
 McCloud, Crane & Minter Co., Worcester, Mass.
 Milton Mfg. Co., Milton, Pa.
 National-Acme Mfg. Co., Cleveland, O.
 Niagara Screw Co., Buffalo, N. Y.
 Payne's Bolt Works, 121 Howard, San Francisco
 Pawtucket Mfg. Co., Pawtucket, R. I.
 Penn Hardware Co., Reading, Pa.
 Penna. Shafting Co., Spring City, Pa.
 Perry-Fay Mfg. Co., Elyria, O.
 Pittsburgh Screw & Bolt Co., Pittsburgh, Pa.
 Reynolds & Co. (Square, Round & Hex Head), New Haven, Conn.
 Richardson-Oliver Co., Athol, Mass.
 Rochester Machine Screw Co., Rochester, N. Y.

Rhode Island Tool Co., Providence, R. I.
 Russell, Burdell & Ward Bolt & Nut Co.,
 Portchester, N. Y.
 St. Louis Screw Co., 3017 N 13th, St. Louis,
 Mo.
 Upson Nut Co., Unionville, Conn., & Cleve-
 land, O.
 Western Automatic Machine Screw Co., Elyria,
 O.
 Worcester Machine Screw Co., Worcester,
 Mass.
 Young Bros., Forrestville, Conn.

SCREWS (Coach & Lag)

(See also Screw Mfrs., Wood.)

American Iron & Steel Mfg. Co., Lebanon, Pa.
 Central City Bolt Co., Syracuse, N. Y.
 Clark Bros Bolt Co., Milldale, Conn.
 Colorado Fuel & Iron Co., Denver, Col.
 Continental Bolt & Iron Works, 22d & Union,
 Chicago, Ill.
 Corbin Screw Corporation (Gimlet-Pointed,
 etc.), New Britain, Conn.
 Dietrich Bros., 344 North, Baltimore, Md.
 Greenle, Wyatt & Co., 499 Water, N. Y.
 Hall's, Samuel Sons, 229 W 10th, N. Y.
 Haskell, Wm. H. Mfg. Co. (Gimlet Pointed)
 Pawtucket, R. I.
 Hoopes & Townsend Co., 1330 Buttonwood, Phila-
 delphia, Pa.
 Hubbard & Co., Pittsburg, Pa.
 Kansas City Bolt & Nut Co. (Coach), Kansas
 City, Mo.
 Lake Erie Iron Co. (also Gimlet Pointed Coach)
 Cleveland, O.
 Lamson & Sessions Co., 2188 Scranton Rd.,
 S. W., Cleveland, O.
 Lanz, M. & Sons (Cone & Gimlet Pointed
 Lag), Carson & 29th, Pittsburg, Pa.
 Michigan Bolt & Nut Works, ft. Meldrum av,
 Milton Mfg. Co., Milton, Pa. Detroit, Mich.
 Moran Bolt & Nut Mfg. Co., c Florida & Main,
 St. Louis, Mo.
 National Screw & Tack Co., Cleveland, O.
NATIONAL SUPPLY CO. (Coach Gim-
let Point), 7 W Lombard, Baltimore, Md.
 (See adv. index, end of book)
 Neely Nut & Bolt Co. (Lag), S 22d & P. &
 L. R. R., Pittsburg, Pa.
 New Castle Forge & Bolt Co., New Castle, Pa.
 Oliver Iron & Steel Co. (Gimlet Pointed, etc.),
 Pittsburg, Pa.
 Pawtucket Mfg. Co. (Gimlet Point), Pawtucket
 R. I.
 Pittsburg Mfg. Co., 28th & R. R., Pittsburg, Pa.
 Pittsburg Screw & Bolt Co., Pittsburg, Pa.
 Republic Iron & Steel Co. (Gimlet Pointed),
 Frick bldg. Annex, Pittsburg, Pa.
 Reynolds & Co., New Haven, Conn.
 Rhode Island Tool Co. ("Gimlet Pointed"),
 Providence, R. I.
 Scranton Bolt & Nut Co., Scranton, Pa.
 Vulcanus Forging Co. (Forged), Cleveland, O.

SCREWS (Collar)

Atlas Bolt & Screw Co., Cleveland, O.
 Chicago Screw Co., 2 N Canal, Chicago, Ill.
 Cincinnati Screw & Tap Co., 2442 Beekman,
 Cincinnati, O.
 Columbia Screw Co. (Gimlet Pointed), 16th &
 Cottage Grove av, Chicago, Ill.
 Corbin Screw Corporation, New Britain, Conn.
 Haskell, Wm. H. Mfg. Co., Pawtucket, R. I.
 McCloud, Crane & Minter Co., Worcester,
 Mass.

National-Acme Mfg. Co., Cleveland, Ohio
 Pawtucket Mfg. Co., Pawtucket, R. I.
 Pittsburg Screw & Bolt Co., Pittsburg, Pa.
 Western Automatic Machine Screw Co., Elyria,
 O.
 Worcester Machine Screw Co., Worcester,
 Mass.

SCREWS (Dowel)

(See Screws, Wood)

SCREWS (Drive)

(See Screws, Wood)

*SCREWS (Feed)

ALLIS-CHALMERS CO., Milwaukee, Wis.
 (See adv. index & branch offices, end of
 book)
STANDARD GAUGE STEEL CO.,
 Beaver Falls, Pa. (See adv. index, end
 of book)

SCREWS (Fetter Drive)

Lanz, M. & Sons, Carson & 29th, Pittsburg,
 Pa.

SCREWS for Electrical Trade

American Pin Co., Waterbury, Conn.
 National-Acme Mfg. Co., Cleveland, Ohio
 Western Automatic Machine Screw Co. Elyria,
 O.

SCREWS (German Silver)

Blake & Johnson, Waterbury, Conn.
 Columbia Screw Co., 16th & Cottage Grove av,
 Chicago, Ill.
 Grilley Co., 424 State, New Haven, Conn.
 Parham & Lawser, 712 Cherry, Phila., Pa.

SCREWS (Gib)

Hartford Machine Screw Co., Hartford, Conn.
 McCloud, Crane & Minter Co., Worcester,
 Mass.
 National-Acme Mfg. Co., Cleveland, Ohio
 Reynolds & Co., New Haven, Conn.
 St. Louis Screw Co., 600 E Clarence, St. Louis,
 Mo.
 Western Automatic Machine Screw Co., Elyria,
 Yale & Towne Mfg. Co., Stamford, Conn. O.

SCREWS (Hand Rail)

Columbia Screw Co., 16th & Cottage Grove av,
 Chicago, Ill.
 Corbin Screw Corporation, New Britain, Conn.
 Sargent & Co., New Haven, Conn., & 94 Cen-
 ter, New York
 Wire Goods Co., Worcester, Mass.

SCREWS (Hand Saw)

Corbin Screw Corporation, New Britain, Conn.
 Sargent & Co., New Haven, Conn., & 94 Cen-
 ter, New York

SCREWS (Hand & Bench)

Aldrich, Wm. K. Co., 587 Dutton, Lowell,
 Mass.
 Bliss, R. Mfg. Co., Pawtucket, R. I.
 Brighton Specialty Co. (Wood Hand), Man-
 chester, N. H.
 Chapin-Stephens Co., Pine Meadow, Conn.
 Chicago Screw Co. (Improved "Reno" Wrought
 Iron Screws with Metal Bearing), 2 N
 Canal, Chicago, Ill.
 Detroit Screw Works (Iron Screws with Metal
 Bearings), Detroit, Mich.
 Grand Rapids Hand Screw Co., Grand Rap-
 ids, Mich.
 Judson, J. R. (Brush Makers'), E. Arlington,
 Vt.
 National Novelty Corporation, 826 B'way, New
 York
 New London Vise Works, New London, Conn.
 Ohio Tool Co. (Iron & Wood), Columbus, O.
 Peck, Stow & Wilcox Co., Southington, Conn.
 Reading Hardware Co., Reading, Pa.
 Sandusky Tool Co. (Wood), Sandusky, O.
TAYLOR, JAS. L. MFG. CO., Bloomfield,
 N. J. (See adv. index, end of book)

SCREWS (Hanger)

American Iron & Steel Mfg Co., Lebanon, Pa.
 Cleveland Automatic Machine Co., 131 2d av
 Cleveland, O.
 Columbia Screw Co. (Gimlet Pointed), 16th &
 Cottage Grove av, Chicago, Ill.
 Corbin Screw Corporation, New Britain, Conn.
DODGE MFG. CO., Mishawaka, Ind.
 (See adv. index & branch offices, end of book)
 Haskell, Wm. H. Mfg. Co., Pawtucket, R. I.
 Kansas City Bolt Co., Kansas City, Mo.
 Kirk-Latty Mfg. Co., Cleveland, Ohio
 Lamson & Sessions Co., Cleveland, O.
 McCloud, Crane & Minter Co., Worcester, Mass.
 Michigan Bolt & Nut Works, ft. Meldrum av,
 Detroit, Mich.
 Moran Bolt & Nut Mfg. Co., St. Louis, Mo.
 National Screw & Tack Co., Cleveland, O.
NATIONAL SUPPLY CO., 7 W Lom-
bard, Baltimore, Md. (See adv. index, end
 of book)
 Old Dominion Iron & Nail Works Co., Richmond
 Pawtucket Mfg. Co., Pawtucket, R. I.
 Republic Iron & Steel Co., Frick bldg. Annex,
 Pittsburg, Pa.
 Western Automatic Machine Screw Co., Elyria,
 O.

SCREWS (Headless)

(See Screws, Wood.)

SCREWS (Hook & Eye)

American Iron & Steel Co., Lebanon
 Haskell, Wm. H. Mfg. Co., Pawtucket, R. I.
 Moran Bolt & Nut Mfg. Co., St. Louis, Mo.

SCREWS (House Raising)

(See Screws, Building Movers.)

SCREWS (Jack)

(See also Jacks, Screw)

Starrett, L. S. Co. ("Little Giant"), Athol,
 Mass.
 Swett, A. L. Iron Works (Ratchet, etc.), Me-
 dina, N. Y.

*SCREWS (Lead)

STANDARD GAUGE STEEL CO.,
 Beaver Falls, Pa. (See adv. index, end of
 book)

SCREWS (Machine)

American Screw Co., Providence, R. I.
 Atlanta Screw Works (David Tilton), Hart-
 ford, Conn.
 Atlantic Machine Screw Co. (Special, Etc.), 48
 Binford, Boston, Mass.
 Atlas Belt & Screw Co., Cleveland, O.
 Chicago Screw Co. (Iron & Brass), 2 N Canal,
 Chicago, Ill.
 Cincinnati Screw & Tap Co., 2442 Beekman,
 Cincinnati, O.
 Cleveland Machine & Screw Co., Cleveland, O.
 Columbia Screw Co., 16th & Cottage Grove av,
 Chicago, Ill.
 Corbin Screw Corporation (Brass or Iron), New
 Britain, Conn.
 Detroit Screw Works, Detroit, Mich.
 Dodge, Lewis H. Co. (Special), 144 Purchase,
 Draper Co., Hopedale, Mass. Boston, Mass.
 Hall's Sam'l Sons, 229 W. 10th, N. Y.
 Hartford Machine Screw Co., 476 Capitol, Hart-
 ford, Conn.
 Haskell, Wm. H. Mfg. Co., Pawtucket, R. I.
 Hill, Geo. Q. Co., 326A, Boston, Mass.
 Hoopes & Townsend Co. 1330 Buttonwood, Phil-
 adelphia, Pa.
 Hope, Wm. H. & Co. (Milled), Lowell, Mass.
 Hubbel, Harvey (Inc.), Bridgeport, Conn.
 Kirk-Latty Mfg. Co., Cleveland, O.
 McCloud, Crane & Minter Co., Worcester, Mass.
 Mack, Thos. A., Mfg. Co. (Special, Etc.), Jer-
 sey City, N. J.
 Miles, Franklin S. (Est. of) (Brass & Iron),
 205 Quarry, Phila., Pa.
 Mt. Carmel Bolt Co., Mt. Carmel, Conn.
 National-Acme Mfg. Co., Cleveland, O.
 National Screw & Tack Co., Cleveland, O.
 Ohio Nut & Bolt Co., Berea, O.
 Parham & Lawser, 712 Cherry, Phila., Pa.
 Phila. Machine Screw Works (All Kinds of
 Special), 624 Race, Philadelphia, Pa.
 Pittsburg Screw & Bolt Co., Pittsburg, Pa.
 Progressive Mfg. Co., Torrington, Conn.
 Reading Screw Co., Norristown, Pa.
 Reed & Curtis Machine Screw Co., Worcester,
 Mass.

Reed & Prince Mfg. Co., Worcester, Mass.
 Reynolds & Co., New Haven, Conn.
 Rochester Machine Screw Co., Rochester, N. Y.
 Russell & Erwin Mfg Co., New Britain, Conn.,
 & 43 Chambers, N. Y.
 St. Louis Screw Co., 3017 N 13th, St. Louis, Mo.
 Scott & Williams (Milled), 2079 Cumberland,
 Phila., Pa.
 Smith Machine Screw Co., Northampton, Mass.
 Steele & Johnson Mfg. Co., Waterbury, Conn.
 Turner, Jno. D., Lowell, Mass.
 Wells, F. E. & Son Co. (Special), Greenfield,
 Mass.

Western Automatic Machine Screw Co., Elyria,
 O.
 Worcester Machine Screw Co., Worcester,
 Mass.
 Young Bros. (From Sample Only), Forestville,
 Conn.

SCREWS (Plated & Lacquered)

(See Screws, Wood; also Screws, Brass, etc.)

Screws (Plumbers')

American Pin Co., Waterbury, Conn.
BERNZ, OTTO (Closet, etc.), S 13th & S
 Orange av, Newark, N. J. (See adv. in-
 dex, end of book)
 Columbia Screw Co., 16th & Cottage Grove av,
 Chicago, Ill.
 Gaynor & Mitchell Mfg. Co., Bridgeport, Conn.
 New England Screw Co., Boston, Mass.
 Sanitary Co. (Brass), 306 Prospect, Cleveland,
 Ohio
 Steele & Johnson Mfg. Co., Waterbury, Conn.
 Wolverine Brass Works (Closet, etc.), Grand
 Rapids, Mich.

Screws (Rail)

Humason & Beckley Mfg. Co., New Britain,
 Conn.

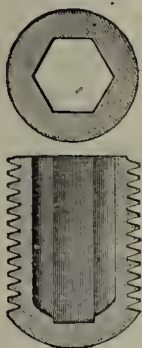
Screws (Saw)

Disston, Henry & Sons (Inc.), Tacony, Phila.,
 Pa.
 National Saw Co., Newark, N. J., & Middle-
 town, N. Y.

Screws (Set)

(See Screws, Cap & Set.)

Screws (Set, Hollow)



HAMMACHER, SCHLEMMER & CO.
 Controlling Agents, 4th av & 13th, New York
 AGENTS.

Cal...Oakland.....Ingram Hardware Co.
 Colo...Denver.....Scott Supply & Tool Co.
 Conn...New Haven...Mersick, C. S. & Co.
 Ga...Atlanta.....Alexander, J. M. & Co.
 Ill...Chicago.....Harris, Samuel & Co.
 Ind...Indianapolis...Vonnegut Hardware Co.
 Ind...Muncie.....Keiser, Geo. & Co.
 Ia...Muscatine...Barry Mfg. Co.
 Ky...Louisville...The Laib Co.
 Md...Baltimore...Add, John B.
 Mass...Boston.....Chase, Parker & Co.
 Mich...Detroit.....Strelinger, Chas. A. Co.
 Mo...St. Louis.....St. Louis Machinists Supply
 Co.
 N. J. Passaic.....New Jersey Eng. & Supply Co.
 N. Y. Albany.....Albany Hardware & Iron Co.
 N. Y. Rochester...Ernst, Louis & Sons
 N. Y. Syracuse...Syracuse Supply Co.
 N. C. Charlotte...Textile Mill Supply Co.
 Ohio...Cincinnati...Boebinger Hardware Co.
 Ohio...Cleveland...Strong, Carlisle & Hammond
 Co.
 Pa...Phila.....Maddock & Co.
 Pa...Pittsburg...Somers, Fidler & Todd Co.
 S. C. Anderson...Sullivan Hardware Co.
 Tenn...Memphis...Reichman-Crosby Co.
 Wash...Seattle.....Whiton Hardware Co.
 Wis...Milwaukee...Packard, O. L. Machinery Co.
 Can...Ont...Toronto...Aikenhead Hardware Co.

Screws (Shutter)

Peck, Stow & Wilcox Co., Southington, Conn.
 Reading Hardware Co., Reading, Pa.
 Russell & Erwin Mfg. Co., New Britain,
 Conn., & 43 Chambers, New York
 Sargent & Co., New Haven, Conn., & 94 Cen-
 ter, New York

Screws (Skein)

American Iron Steel Mfg. Co., Lebanon, Pa.
 Kansas City Bolt & Nut Co., Kansas City, Mo.
 Lamson & Sessions Co., 2188 Scranton rd,
 S W, Cleveland, O.
 Michigan Bolt & Nut Works, Detroit, Mich.
 Moran Bolt & Nut Mfg. Co., St. Louis, Mo.

NATIONAL SUPPLY CO., 7 W Lom-
 hard, Baltimore, Md. (See adv. index, end
 of book)

Republic Iron & Steel Co., General Offices,
 First National Bank bldg, Chicago

Screws (Stage)

Brewer Bros. (Steel), 614 Filbert, Phila., Pa.

Screws (Stud)

Chicago Screw Co., 2 N Canal, Chicago, Ill.
 Haskell, Wm. H. Mfg. Co., Pawtucket, R. I.
 McCloud, Crane & Minter Co., Worcester, Mass.
 Miles, Franklin S. (Est. of), 205 Quarry,
 Phila., Pa.
 Republic Iron & Steel Co., General Offices,
 Frick bldg Annex, Pittsburg, Pa.
 Reynolds & Co., New Haven, Conn.
 Rochester Machine Screw Co., Rochester, N. Y.
 St. Louis Screw Co., 3017 N 13th, St. Louis, Mo.
 Western Automatic Machine Screw Co., Elyria,
 O.

Screws (Thumb)

Billings & Spencer Co., Hartford, Conn.
 Chicago Screw Co. (Drop Forge & Malleable
 Iron), 2 N Canal, Chicago, Ill.
 Cincinnati Screw & Tap Co., 2442 Beekman,
 Cincinnati, O.
 Haskell, Wm. H. Mfg. Co. (Drop Forged), Paw-
 tucket, R. I.
 Keystone Drop Forge Works (Drop Forged),
 Chester, Pa.
 Miles, Franklin S. (Est. of), 205 Quarry,
 Phila., Pa.
 National Novelty Corporation, 826 B'way, New
 York
 Rhode Island Tool Co., Providence, R. I.
 Rochester Machine Screw Co., Rochester, N. Y.
 St. Louis Screw Co., 3017 N 13th, St. Louis, Mo.
 Steele & Johnson Mfg. Co., Waterbury, Conn.
 Welch, T. F. & Co. (Brass), 55 Sudbury, Bos-
 ton, Mass.
 Western Automatic Machine Screw Co.,
 Elyria, O.

Screws (Tobacco)

Bates', Jas. Sons, Pratt & President, Balti-
 more, Md.

Screws (Water Closet)

(See Screws, Plumbers')

Screws (Wood)

American Screw Co., Providence, R. I.
 Atlantic Screw (Brass, Iron, Steel & Bronze),
 Hartford, Conn.
 Brooks, M. S. & Sons (Dowel, Wing), Chester,
 Conn.
 Bridgeport Gun Implement Co., Bridgeport,
 Conn.
 Columbia Screw Co., 16th & Cottage Grove av,
 Chicago, Ill.
 Corbin Screw Corporation, New Britain, Conn.
 Disston, Henry & Sons (Inc.) Tacony, Phila.,
 Pa.
 Eagle Lock Co., Terryville, Conn., 298 Cham-
 bers, New York
 Humason & Beckley Mfg. Co., New Britain,
 Conn.
 National-Acme Mfg. Co., Cleveland, Ohio
PARKER, CHAS. CO., Meriden, Conn.
 (See adv. index, end of book)
 Penn Hdw. Co. (Inc.), Reading, Pa.
 Reading Hardware Co., Reading, Pa.
 Reading Screw Co. (Brass & Iron), Norris-
 town, Pa.
 Reed & Prince Mfg. Co., Worcester, Mass.
 Russell & Erwin Mfg. Co., New Britain,
 Conn.
 Sargent & Co., New Haven, Conn., & 94 Cen-
 ter, N. Y.
 Southington Cutlery Co., Southington, Conn.
 Union Steel Screw Co., Payne av & E 40th,
 Cleveland, O.
 Wire Goods Co., Worcester, Mass.

Screws (Wooden)

Aldrich, Wm. K. Co., Lowell, Mass.
 Peirce, Wm. E. & Co., Milford, N. H.

Scribers (Adjustable, Etc.)

Starrett, L. S. Co., Athol, Mass.

*Scrubbers & Tanks

PETROLEUM IRON WORKS CO.,
 Washington, Pa.; & Farmers' Bank bldg,
 Pittsburg, Pa. (See adv. index, end of
 book)

Sculptors (Architectural)

(See Modelers & Sculptors, Architectural; also
 Carvers, Stone)

*Scuttle Openers (Automatic Self-Locking)

BICKELHAUPT, GEO., SKYLIGHT
 Works, 243 W 47th, New York. (See adv.
 index, end of book)

Scythe Mfrs.

American Axe & Tool Co., Glassport, Pa., &
 253 B'way, New York
 Dunn Edge Tool Co., Oakland, Me.
 Emerson Edge Tool Co., East Lebanon, N. H.
 Emerson-Stevens Mfg. Co., Oakland, Me.
 Kelly Axe Mfg. Co., Charleston, W. Va.
 Nolin Mfg. Co., Skowhegan, Me.
 North Wayne Tool Co., Hallowell, Me.
 Rixford Mfg. Co. East Highgate, Vt.
 Sibley Scythe Co., North Newport, N. H.
 Wadsworth, David & Son, Auburn, N. Y.
 Winsted Mfg. Co. (Grass, Grain, Bush, Bram-
 ble, Weed & Lawn), Winsted, Conn.

Scythe Snaths

American Fork & Hoe Co., Main Office, Cleve-
 land, O.
 Brinser, E. C. & Sons, Middletown, Pa.
 Brown, Hinman & Huntington Co., Memphis,
 Tenn.
 Derby & Ball, Bellows Falls, Vt.
 Emerson-Stevens Mfg. Co., Oakland, Me.
 Iowa Farming Tool Co., Ft. Madison, Ia.
 Owosso Mfg. Co., Owosso, Mich.
 Seymour Mfg. Co., Seymour, Ind.
 Withington & Cooley Mfg. Co., Jackson, Mich.

Seals & Sealing Presses (Car)

American Railway Supply Co., 24 Park pl,
 N. Y.
 American Smelting & Refining Co. (Lead),
 9th & Freeman, Cincinnati, O.
 Barnard Stamp Co., 311 Olive, St. Louis, Mo.
 Brooks, E. J. & Co., 227 Fulton, N. Y.
 Chadwick-Boston Lead Co. (Lead Car Seals
 only), Boston, Mass.
 Chicago Car Seal & Mfg. Co., c Kinzie &
 Green, Chicago, Ill.
 Crescent Seal & Stamp Co., Cambridge, O.
 Detroit Car Seal Mfg. Co., 987 Military av.,
 Detroit, Mich.
 Handlan-Buck Mfg. Co. (Handlan's), 212 N
 3d, St. Louis, Mo.
 Hiertz, Theo. & Son (Lead Car Seals), 10th &
 Poepping, St. Louis, Mo.
 Hill, B. B. Mfg. Co., 1020 New Market, Phila.,
 Pa.
 International Seal & Lock Co., Hastings, Mich.
 Keystone Seal & Press Co., 39 Cortlandt, N. Y.
 Lehmer, Jos. R., 1212 Farnam, Omaha, Neb.
 259 Livingston av, Columbus O.
 National Car Seal Co., Hamilton, O.
 New York Stencil Works, 100 Nassau, N. Y.
 Parker, T. M., Hartford, Conn.
 Saubrey, Geo. J. (Hasp & Car Shipping Seals),
 250 Livingston av, Columbus, O.
 Sigwalt Mfg. Co., Security bldg, Chicago, Ill.
 Smith, R. H. Mfg. Co., 293 Main, Springfield,
 Mass.
 Utica Drop Forge & Tool Co. (Presses), Utica,
 N. Y.
 Wendell & MacDuffie, 26 Cortlandt, N. Y.
 Woodman, R. Mfg. & Supply Co. (Lead), 63 ON-
 ver, Boston, Mass.

Searchlights

(See Projectors or Searchlights.)

Searchlights (Acetylene)

American Acetylene Stove Co. ("Clear View").
 Masonic Temple, Minneapolis, Minn.
 Colt, J. B. Co., 408 E 32d, N. Y.
 MacLeod, Walter & Co., 213 E. Pearl, Cin-
 cinnati, O.
 Twentieth Century Mfg. Co., 19 Warren,
 N. Y.

Seating

(See Furniture, School; also Furniture, Church; also Opera Chairs and Theatre Seating.)

Seats (Agricultural Implement)

Avery Stamping Co., Cleveland, O.
Cambria Steel Co. (Gautier Dept.), Johnstown, Pa., & Arcade Bldg., Phila., Pa.

Seats (Bath Tub)

Buffalo Specialty Mfg. Co. (The "Empire," "Bon Ton," "Climax" & "Universal" Adjustable), Buffalo, N. Y.
Climax Specialty Co., Seneca Falls, N. Y.
Hess, Chas. Co. (for Export), 129 Front, N. Y.
Warner, A. H. & Co., Bristol, Conn.

Seats (Pole)

Lanz, M. Sons, Carson & 29th, Pittsburg, Pa.

Seats (Reversible, Car)

Brill, J. G. Co. (for Open or Closed Cars), 62d & Woodland av, Phila., Pa.

Seats & Seating (Car)

(See Car Seats, Chairs & Fittings)

Second-Hand Building Materials

(See Building Materials, Second Hand.)

Seeders (Beet)

Allen, S. L. & Co. (Planet, Jr.), 1017 Market, Phila., Pa.
Ames Plow Co., Quincy Hall, Boston, Mass.
Bateman Mfg. Co. (Drills), Grenloch, N. J.
Deere & Mansur Co. (Drills), Moline, Ill.
Hoosier Drill Co. (Drills), Richmond, Ind.
Ohio Implement Co. ("Toledo"), Bowling Green, O.
Moline Plow Co., Moline, Ill.
Superior Drill Co. (Drills), Springfield, O.

Seeders (End Gate)

Adam, W. J., Joliet, Ill.
American Seeding Machine Co., Main Office, Springfield, O.
Aremac Mfg. Co., Peoria, Ill.
Bailey, Nichols & Co. (Chainless Force Feed), Delevan, Ill.
Bristol & Gale Co., Chicago, Ill.
Chambers, Bering, Quinlan Co., Decatur, Ill.
Engel, J. A. & Co., Peoria, Ill.
Foster & Williams Mfg. Co., Racine, Wis.
Johnson & Field Mfg. Co., Racine, Wis.
Luthy Co., Peoria, Ill.
Peoria Drill & Seeder Co. ("Glendale Agitator," "Peoria Agitator"), Peoria, Ill.
Racine Implement Co., Racine, Wis.
Racine Malleable & Wrought Iron Co., Racine, Wis.
Rhea-Thlelens Implement Co., Peoria, Ill.
Tait, F. B. Mfg. Co. (Force Feed; also Wright's Clover Seed Attachment), Decatur, Ill.

Seeders (Garden)

Deere & Mansur Co., Moline, Ill.

Seeders (Raisin)

Buffalo Specialty Mfg. Co. ("X Ray" & "Lighting"), 375 Ellicott, Buffalo, N. Y.
Enterprise Mfg. Co., 3d & Dauphin, Phila., Pa.
Landers, Frary & Clark ("Crown"), New Britain, Conn.

Seeders (Wheelbarrow, Grass)

Crown Mfg. Co., Phelps, N. Y.
Holmes Wire Rope Seeder Co., Ypsilanti, Mich.
Seeder & Hancock Chair Co., Homer, Mich.
Star Seeder Co., Shortsville, N. Y.
Thompson, O. E. & Son, Ypsilanti, Mich.

Seeders & Sowers

(Seeders also (Sowers)

Allen, S. L. & Co. (Planet, Jr., Bean, Pea, etc.), 107 Market, Phila., Pa.
American Harrow Co. (Seeders only), Detroit, Mich.

American Seeding Machine Co. (Broadcast), Main Office, Springfield, O.

Appleton Mfg. Co. (Budger & Royal), Batavia, Ill.

Benicia Agricultural Works (Gem, Gorman), Benicia, Cal.

Chapinville Wheel Co. (New Yorker), Poughkeepsie, N. Y.

Cyclone Seeder Co. ("Cyclone," "Chicago" & "Champlon, Jr."), Hand Broadcast Seed Sower, Urbana, Ind.

Deere & Mansur Co. (Broadcast; also Grass Seeder Attachment), Moline, Ill.

Dowagiac Mfg. Co. (Seeders), Dowagiac, Mich.

Emerson Mfg. Co., Rockford, Ill.

Fond du Lac Implement Co., Fond du Lac, Wis.

Foster & Williams Mfg. Co., Racine, Wis.

Fountain City Drill Co., La Crosse, Wis.

Freeman S. & Sons Mfg. Co., Racine, Wis.

Gale Mfg. Co. (Broadcast), Albion, Mich.

Goodell Co., Antrim, N. H.

Grant-Ferris Co. (Combined Drill & Broadcast Seeder), Troy, N. Y.

Hench & Dromgold Co., Inc., York, Pa.

Hoosier Drill Co., Richmond, Ind.

Howell, R. R. & Co. (Seeder with Cultivator), Minneapolis, Minn.

Johnston Harvester Co. (Disc Seeder), Batavia, N. Y.

Johnson & Field Mfg. Co. (Scandinavian Broadcast), Racine, Wis.

Keystone Mfg. Co. (Broadcast), Sterling, Ill.

La Crosse Plow Co. (Also Grass Seeder Attachments), La Crosse, Wis.

Luthy & Co. (Also Grass Seeder Attachments), Peoria, Ill.

McSherry Mfg. Co., Middletown, O.

Mast, P. P. & Co. (Buckeye, Broadcast), Springfield, O.

Moline Plow Co., Moline, Ill.

Monitor Mfg. Co. (Force Feed Sowers), Minneapolis, Minn.

Ohio Rake Co. (Seeders for Disc Harrows), Dayton, O.

Owatonna Mfg. Co., Owatonna, Minn.

Peoria Drill & Seeder Co. (Columbia, "Cyclone," "Union Jr."), Peoria, Ill.

Reed Mfg. Co. (Broadcast), Kalamazoo, Mich.

Rockford Well Drill Co. (Gorman Seeders), Rockford, Ill.

Rock Island Plow Co. (Seeder Attachment for Disc Harrows), Rock Island, Ill.

Rowell, J. S. Mfg. Co. (Also Combined Seeder & Drill), Beaver Dam, Wis.

Sattley Mfg. Co., Springfield, Ill.

Selby-Starr & Co., Peoria, Ill.

Sterling Mfg. Co. ("Sterling"), Sterling, Ill.

Superior Drill Co. (Broadcast), Springfield, O.

Thompson, J. & Sons Mfg. Co., Beloit, Wis.

Van Brunt Mfg. Co. (Broadcast), Horicon, Wis.

Wayne Works, Richmond, Ind.

Whitman Agricultural Co. (Broadcast), St. Louis, Mo.

Segments (Commutator)

(See Cummutator Bars.)

Seine Twine

(See Twine, Seine.)

Self-Closing Work

(See Cocks & Bihhs Self-Closing.)

Self Feeders and Band Cutters for Threshers.

Avery Mfg. Co. ("Avery"), Peoria, Ill.
Buffalo Pitts Co., Buffalo, N. Y.
Case, J. I. Thresher Co., Racine, Wis.
Frick Co., Waynesboro, Pa.
Gaar, Scott & Co., Richmond, Ind.
Holt Mfg. Co. (Chain), Stockton, Cal.
Howell, R. R. & Co., Minneapolis, Minn.
Huber Mfg. Co., Marion, O.
Huut, Gilbert Co., Walla Walla, Wash.
Jackson, Byron Machine Works (Self Feeder), San Francisco, Cal.
La Crosse Mfg. Co. (Self Feeder), La Crosse, Wis.
Maplehay Wind Stacker Co., Crookston, Minn.
Marion Mfg. Co., Marion, O.
Minneapolis Threshing Machine Co., Minneapolis, Minn.
Monarch Feeder & Stacker Co., Cedar Falls, Ia.
National Machine Co., Columbus, Ind.
Nichols & Shepard Co., Battle Creek, Mich.
Northwest Thresher Co., Stillwater, Minn.
Parsons Band Cutter & Self Feeder Co., New-

ton, Ia.
Port Huron Engine & Thresher Co., Port Huron, Mich.

Ries, Henry, Bowling Green, O.

Robinson & Co., Richmond, Ind.

Rumley, M. Co., Laporte, Ind.

Ruth Self Feeder Mfg. Co., Halstead, Kan.

Russell & Co., Massillon, O.

Sandwich Mfg. Co., Sandwich, Ill.

Westinghouse Co., Schenectady, N. Y.

Wood Bros. Steel Self Feeder Co., Des Moines, Iowa

*Self-Oiling Bearings

DODGE MFG. CO., Mishawaka, Ind.
(See adv. index & branch offices, end of book)

Semaphore Lenses

(See Globes, Lantern.)

Semaphores (Train Order)

Barney & Smith Car Co. (The Harrington), Dayton, O.

Separators (Barley)

Huntley Mfg. Co. ("Monitor" for Brewers & Malsters), Silver Creek, N. Y.

Separators (Bean)

Avery, B. F. & Sons, Louisville, Ky.
Bacon Mfg. Co., Pontiac, Mich.

Separators (Cement, Plaster, Etc.)

Emerick, Geo. S., Nazareth, Pa.
JEFFREY MFG. CO., Columbus, O.
(See adv. index & branch offices, end of book)
KOVEN, L. O. & BRO., 50 Cliff, New York.
(See adv. index, end of book)

Separators (Centrifugal)

American Tool & Machine Co. (for separating oil from metal chips & turnings), 109 Beach, Boston, Mass.
KOVEN, L. O. & BRO., 50 Cliff, New York.
(See adv. index, end of book)

Separators (Coal)

Anthracite Separator Co. ("Spiral," automatic in action), Hazleton, Pa.

Separators (Cotton Seed)

New Winona Mfg. Co., Winona, Minn.
Sherman Iron Works, Sherman, Tex.
Van Winkle, E., Gln & Machine Works, Atlanta, Ga.

Separators (Cream)

American Hardware & Mfg. Co. ("Illinois Dairy," Centrifugal), Ottawa, Ill.
American Separator Co., Bainbridge, N. Y.
Aquatic Cream Separator Co. ("Aquatic" Gravity), Rochester, N. Y.
Atlantic Stamping Co. ("Atlantic"), Rochester, N. Y.
Bluffton Cream Separator Co., Bluffton, O.
Borden Automatic Cream Separators, Middle Granville, N. Y.
Buckeye Cream Separator Co., Oherlin, O.
Burrell, D. H. & Co. ("Simplex," Centrifugal Hand Power), Little Falls, N. Y.
Chapman, C. L., Erie, Pa.
Creamery Package Mfg. Co., 182 E Kinzie, Chicago, Ill.
Cushman, E. S., Co., Centerville, Iowa.
Dairy Implement Co., Lima, O.
Dairy Queen Mfg. Co. ("Dairy Queen"), Flora, Ind.
Davis Cream Separator Co. ("Davis" Centrifugal), 54 N. Clinton Chicago, Ill.
De Laval Separator Co., 74 Cortlandt, N. Y.
Doty Mfg. Co., Cato, N. Y.
Empire Cream Separator Co. ("Empire"), Bloomfield, N. J.
Flsk, E. W., Newark, N. Y.
Grant Mfg. & Machine Co., Bridgeport, Conn.
Hackett, Dalley Creamery Supply Co., Watertown, Ia.
Hunt, W. F. Cream Separator Co., Newark, N. Y.
International Harvester Co. of America, 7 Monroe, Chicago, Ill. & Auburn, N. Y.

Iowa Dairy Separator Co. ("Iowa Dairy" Centrifugal), Waterloo, Ia.
 Jones, Frank L., Utica, N. Y.
 King Drill Mfg. Co., Nebraska City, Kans.
 Kneeland Crystal Creamery Co., Lansing, Mich.
 Lawrence, Bostwick Mfg. Co., Phelps, N. Y.
 Lawrence Mfg. Co., Toledo, O.
 Lisle Mfg. Co. ("Monarch" Hand), Clarinda, Ia.
 Lourie Co., Keokuk, Ia.
 Lowell Specialty Co. ("Puritan," "Michigan" & "King"), Lowell, Mich.
 Moseley & Pritchard Mfg. Co., Clinton, Ia.
 National Dairy Machine Co. (Centrifugal, etc.), Goshen, Ind.
 National Enameling & Stamping Co. ("National"), 374 B'way, New York
 Omega Separator Co. ("Omega" Centrifugal), Lansing, Mich.
 Papec Machine Co. ("Papec"), Lima, N. Y.
 Plymouth Cream Separator Co., Plymouth, O.
 Polar Creamery Co., Lafayette, Ind.
 Reld, A. H., Creamery & Dairy Supply Co. ("Reid" Steam, Turbine & Hand), 30th & Market, Phila., Pa.
 Sanitary Cream Separator Co., Bluffton, O.
 Sharpless Separator Co. (Tubular), West Chester, Pa.
 Stone Bros., Breckenridge, Mich.
 Superior Fence Machine Co., Detroit, Mich.
 U. S. Butter Extractor Co., Bloomfield, N. J.
 Valley Wind Engine & Iron Co. ("Springers" Centrifugal), Bay City, Mich.
 Vermont Farm Machine Co. ("United States"), Bellows Falls, Vt.
 Waterloo Cream Separator Co. ("Peerless" Centrifugal), Waterloo, Ia.
 Wheeler Gravity Cream Separator Co., Syracuse, N. Y.
 Wilson, H. McK. & Co., St. Louis, Mo.

Separators (Cream, Centrifugal)

(See Separators, Cream, with the word Centrifugal following their name)

Separators (Dust)

Buffalo Forge Co., Buffalo, N. Y., & 39 Cortlandt, New York
 Spicer Mfg. Co., New Philadelphia, O.
 Sterling Blower & Pipe Mfg. Co., Hartford, Conn., & 85 Liberty, New York.

Separators (Flax)

Huntley Mfg. Co. ("Monitor"), Silver Creek, N. Y.

*Separators (Gas & Oil)

PETROLEUM IRON WORKS CO., (Automatic, for Oil Wells), Washington, Pa., & Farmers Bank bldg, Pittsburg, Pa. (See adv. index, end of book)

Separators (Grain)

Aultman & Taylor Machinery Co. ("New Century"), Mansfield, O.
 Avery Mfg. Co., Peoria, Ill.
 Bidwell, C. H., Thresher Co. (Inc.), Batavia, N. Y.
 Closz & Howard Mfg. Co., Webster City, Ia.
 Evert Seed & Grain Separator Co. (Also Seed), Evert, Mich.
 Farquhar, A. B. Co. (Ltd), York, Pa.
 Geiser Mfg. Co. (The New Peerless), Waynesboro, Pa.
 Glosz & Howard Mfg. Co., Webster City, Ia.
 Grain Separator Co., Sparta, Wis.
 Johnson & Field Mfg. Co. (Dustless), Racine, Wis.
 Hoosier Mfg. Co., New Castle, Ind.
 Howes, S. Co., Silver Creek, N. Y.
 Huntley Mfg. Co. ("Cranson" & "Monitor," Scouring, Polishing & Separating, etc.), Silver Creek, N. Y.
 Invincible Grain Cleaner, Silver Creek, N. Y.
 Owens, J. L. Co. (Also Flax), Minneapolis, Minn.
 Prairie Queen Mfg. Co., Newton, Kan.
 Prinz & Rau Mfg. Co. ("Prinz" Automatic), 659 E Water, Milwaukee, Wis.
 Reeves & Co. (Compound), Columbus, Ind.
 Robinson & Co., Richmond, Ind.
 St. Albans Foundry & Implement Co., St. Albans, Vt.
 Sprout, Waldron & Co., Muncy, Pa.

Separators (Iron & Brass)

Brass Founders' Supply Co. ("Badger") Electro-Magnetic, etc., for Brass Fdr.s., Newark, N. J.
 Elm City Engineering Co. ("Hoyt & Martin") Electric, to Separate Brass from Iron Chips), New Haven, Conn.
 Reed, Charles J., 23d & Hamilton, Phila., Pa.

Separators (Lime & Ash)

Hench & Dromgold Co., York, Pa.
 Spangler Mfg. Co. (Lime & Ash), York, Pa.

Separators (Magnetic)

American Concentrator Co. ("New Century"), Joplin, Mo.
 Barnard & Leas Mfg. Co., Moline, Ill.
 Burlin, Chas. T., Whitinsville, Mass.
 Carter Auto-Magnetic Ore Separator Co., 123 Liberty, New York
 Dings Electro Magnetic Separator Co. ("Dings" Electric), 675 Smith, Milwaukee, Wis.
 Elm City Engineering Co. ("Hoyt" & "Martin"), New Haven, Conn.
 Etting, Edw. J., Land Title bldg., Phila., Pa.
 Howes, S. Co., Silver Creek, N. Y.
 Sprout, Waldron & Co. (Automatic), Muncy, Pa.
 Stearns-Roger Mfg. Co., Denver, Colo.
 United Iron Works Co. ("Cleveland-Knowles" for Separating Iron Pyrites from Lead & Zinc Ores), Springfield, Mo.
 United States Separator Co. ("Sweets" Ore), 81 Fulton, New York

Separators (Mud)

American District Steam Co., Lockport, N. Y.

*Separators (Pea)

SPRAGUE CANNING MACHINERY Co. (Scott's Rotary Interchangeable), 42 River, Chicago, Ill. (See adv. index, end of book)

Separators (Small Seed)

Nichols & Shepard Co., Battle Creek, Mich.

Separators (Steam & Oil)

(See also Oil & Grease Extractors.)

Acton, John, 118 John ("Nelson"), Brooklyn, N. Y.
 Albany Steam Trap Co. ("Blessing"), Albany, N. Y.
 Ambrose Machine Co., Eagle & Provost, Brooklyn, N. Y.
 American District Steam Co., 101 Elm, Lockport, N. Y.
 Angell & Co., John E., St. Louis, Mo.
 Atwood & Morrill, Salem, Mass.
 Austin Separator Co., 55 Woodbridge, W. Detroit, Mich.
 Baldwin Engineering Co., 107 W. 17th, New York City
 Baragwanath & Son, 55 W. Division, Chicago, Ill.
 Bates Machine Co., Joliet, Ill.
 Baum Separator & Machine Co., Manheim, Pa.
 Best Mfg. Co. ("Climax," Centrifugal), 25th & A V. Ry., Pittsburg, Pa.
 Bonar, Jas. & Co. ("The Sweet"), Frick bldg., Pittsburg, Pa.
 Bushnell, John S. Co., 124 Liberty, N. Y.
 Colles, E. G. T. & Co., 44 S. Clinton, Chicago, Ill.
 Cookson Steam Specialty Co., 323 W 4th, Cincinnati, Ohio
 Crane Co. (of Chicago), Est. 1855. (See adv. index & branch offices, end of book)
 Curtis, Albert B. ("Oil"), 10 London, Worcester, Mass.
 Davis, Jno. Co. ("Eclipse"), 22d & Halstead, Chicago, Ill.
 D'Este, Julian Co. ("Curtis"), 24 Canal, Boston, Mass.
 Direct Separator Co., 218 S. Geddes ("Sweets"), Syracuse, N. Y.
 Egdlr Supply & Equipment Co. ("Ridge" Separator & Oil Eliminator), Carbondale, Pa.
 Eureka Iron Co., 63 S. Canal, Chicago, Ill.
 Flint, S. E. & Co. ("St. Louis"), Security bldg., St. Louis, Mo.
 Funke, F., Milwaukee, Wis.

GARDNER GOVERNOR CO. ("Gardner"), Quincy, Ill. (See adv. index, end of book)
 Goubert Mfg. Co. ("The Stratton," Live Steam), 90 West, New York
 Greacen-Derby Engineering Co., Perth Amboy, N. J.
 Great Lakes Engineering Works ("Great Lakes"), Detroit, Mich.
 Greenaway Co., Detroit, Mich.
 Griffing, A. A. Iron Co. (Bundy), Jersey City, N. J.
 Harrison Safety Boiler Works ("The Cochran"), 17th, below Allegheny, Phila., Pa.
 Hawley Down Draft Furnace Co. ("Hutchinson"), c. Superior & Townsend, Chicago, Ill.
 Hoppes Mfg. Co., Springfield, O.
 Hussey-McCann & Co. (the "Peerless"), 87 Warren, N. Y.
 Huxley Mfg. Co. ("Huxley"), Detroit, Mich.
 Ide, A. L. & Sons ("Ideal"), Springfield, Ill.
 Ironton Engine Co., Ironton, O.
 Jacobs, Chas. & Co. ("Lowden"), 51 Oliver, Boston, Mass.
 Jarvis Engine & Machine Works ("Monitor"), Lansing, Mich.
 Kensington Engine Works (Ltd.), 245 N. Broad, Philadelphia, Pa.
 Kieley & Mueller, 34 W. 13th, New York.
 Kruger & Blind Co. ("Simpson's" Centrifugal Steam), 511 Master, Philadelphia, Pa.
 Kutztown Foundry & Machine Co. (Compound for Steam Boilers), Fidelity bldg., Philadelphia, Pa., & Kutztown, Pa.
 Lindstrom, John T., Allentown, Pa.
 Lippincott Steam Specialty & Supply Co. ("Lippincott"), Green & Columbia sts, Newark, N. J.
 Locke Regulator Co., Salem, Mass.
 Loew Mfg. Co. ("Loew"), West Madison & Kilbourn, Cleveland, O.
 McKnight, Walter J. ("McKnight" Oil Receiver & Separator, 70 Riley, Buffalo, N. Y.
 Miles, Geo. Co., Winsted, Conn.
MINNEAPOLIS STEEL & MACHINERY Co. (Oil), Minneapolis, Minn. (See adv. index & branch offices, end of book)
 Monash-Younger Co. ("Goan" & "Monash," Steam Only), 203 S. Canal, Chicago, Ill.
 Mosher, Chas. D. (The Mosher), 1 B'way, New York
 National Separator & Mfg. Co. (Separator & Filter Combined), Manchester, N. H.
 Nicholson, W. H. & Co. ("Wyoming" Steam Only), Wilkes-Barre, Pa.
 Ohio Blower Co. ("Swartwout" vertical), Cleveland, O.
 Oil & Waste Saving Mach. Co. (Oil), Real Estate Trust bldg., Phila., Pa.
 Patterson, Frank L. & Co. ("Patterson"), 26 Cortlandt, N. Y.
 Potter Separator Co. ("Potter Mesh"), Newburgh, N. Y.
 Power Specialty Co., 111 B'way, New York
 Providence Steam Trap Co. ("Newton"), Providence, R. I.
 Reilly, James, Supply & Repair Co., (Ebsen"), 229 West, New York
 Roberts, Geo. I. & Bros., 473 4th av., N. Y.
 Robertson, Jas. L. & Son (Inc.) ("Hine" Eliminator), 48 Warren, New York, & 12 Pearl, Boston, Mass.
SCHAEFFER & BUDENBERG MFG. CO. ("Acme"), Foxboro, Mass. (See adv. index & branch offices, end of book)
 Simonds Heating & Specialty Co. ("Simonds" Steam Receiver & Separator"), 105 Washington av, Detroit, Mich.
 Sims Co., Erie, Pa.
 Springfield Separator Co. (separator & filter combined) Springfield, Vt.
 Standard Steam Specialty Co. ("Utility"), 542 W B'way, New York
 Steam Appliance Co. ("Milwaukee" & "Triumph" Centrifugal), Milwaukee, Wis.
 Stephens & Westcott Co. ("Zigzag"), Chicago, Ill.
 Stewart Heater Co. (Separator & Purifier Combined), Buffalo, N. Y.
 Thompson, Richard & Co., 126 Liberty, N. Y.
 Unique Engineering Co., 100 Hinsdale, Brooklyn, N. Y.
 Van Auken-Cleavac Co., Yonkers, N. Y.
 Watson & McDaniel Co. ("W. & McD." and "Jennings"), 146 N 7th, Philadelphia, Pa.
 *Webster, Warren & Co. (the "Webster"), Camden, N. J.
 Wheeler Condenser & Engineering Co. ("Baker Oil"), 42 B'way, New York
 Whitlock Coil Pipe Co. ("American"), Hartford, Conn.
WILLIAMS, D. T. VALVE CO. (Automatic), 904 Broadway, Cincinnati, Ohio. (See adv. index, end of book)
 Windsor Machine Co., Windsor, Vt.

Separators (Stone)

American Clay Machinery Co., Bucyrus, O., & Willoughby, O.
Brewer, H. & Co., Tecumseh, Mich.
Great Western Mfg. Co. (for Separating Stone & Gravel from Wheat), Leavenworth, Kan.
Martin Henry Brick Machine Mfg. Co., Lancaster, Pa.
Wallace Mfg. Co., Frankfort, Ind.

Separators (Vacuum)

Austin Separator Co., 55 Woodbridge, W. Detroit, Mich.

Servers

Riverside Metal Co., Riverside, N. J.

Sets (Lock)

Sargent & Co. (Union), New Haven, Conn., and 15 Leonard, New York

Sets (Nail, Rivet, Saw, Etc.)

(These specialties are classified under their descriptive kinds.)

Settees, Chairs, Etc. (Veneered)

(See Veneer Seating.)

Settees (Gliding)

Goshen Mfg. Co. ("Boyers"), Gosben, Ind.

Settees (Railroad)

Ahnapee, Veneer & Seating Co., Algoma, Wis.
American School Furniture Co., 21 W. 18th, N. Y. City
Frost Veneer Seating Co., 206 Canal, New York
Kane, Tbos. & Co. (Station, etc.), Chicago, Ill.
Works: Racine, Wis.

Settees (Rustic)

(See Rustic Woodwork.)

Settees & Chairs (Iron)

(See also Fountains, Vases, etc.)

AMOS, CHARLES & CO., 94 W. Larned, Detroit, Mich. (See adv. index, end of book)
Badger Wire & Pottery Co., Milwaukee, Wis.
Barbee Wire & Iron Works, 44 Dearborn, Chicago, Ill., & Lafayette, Ind.
Bayley, Wm. Co., Springfield, O.
Belmont Iron Works, 22d & Washington, Phila., Pa.
BETHLEHEM FOUNDRY & MACHINE Co. (Iron Frame, Wooden Seat), Front st., S. Bethlehem, Pa., and 149 B'way, New York. (See adv. index, end of book)
BOLLES, J. E., IRON & WIRE WORKS. 4th av & Porter, Detroit, Mich. (See adv. index, end of book)
BUFFALO WIRE WORKS CO., 316 Terrace, Buffalo, N. Y. (See adv. index, end of book)
Central Wire & Iron Works, 28 E. Georgia, Indianapolis, Ind.
CHAMPION IRON CO., Kenton, Ohio. (See adv. index, end of book)
CITY FORGE & IRON WORKS (Andrew Plocher, Prop.), Dayton, O. (See adv. index, end of book)
COLUMBUS WIRE & IRON WORKS CO., Columbus, O. (See adv. index, end of book)
Fiske, J. W. Iron Works, 39 Park Pl., N. Y.
Ginther's, J. Sons, 417 B'way, Buffalo, N. Y.
Glen Mfg. Co., Elwood City, Pa.
Hlnderer, C. A. F., 1112 Camp, New Orleans, La.
Jones, M. D. & Co., 71 Portland, Boston, Mass.
Jones, Willis H., Utica, N. Y.
Keystone Farm Machine Co. (Wood, Iron Frame), York, Pa.
Le Baron Foundry Co., Middleboro, Mass.
Ludlow-Saylor Wire Co., St. Louis, Mo.
McDonald Bros. (Cast Iron), Columbus, Ohio
MERRITT & CO., 1024 Ridge av, Phila., Pa. (See adv. index, end of book)
Mott, J. L. Iron Works, 118 5th av, New York
Nute, T. C. Foundry Co., Akron, O.

OHIO STRUCTURAL IRON CO. (Wrought Iron), Sandusky, O. (See adv. index, end of book)
Ornamental Iron & Wire Co. (Inc.), Portsmouth, Va.
Smith Fence & Iron Co. (Steel), Waynesboro, Pa.
SMITH, F. P., WIRE & IRON WORKS, 100 Lake, Chicago. (See adv. index, end of book)
Smyser's, E. G. Sons, York, Pa., & Baltimore, Md.
Stewart Iron Works Co., 716 E 3d, Cincinnati, O.
Swett, A. L. Iron Works, Medina, N. Y.
TAYLOR & DEAN, 205 Market, Pittsburg, Pa. (See adv. index, end of book)
VULCAN CO., Detroit, Mich. (See adv. index, end of book)
Van Dorn Iron Works Co., 1793 E Madison av, Cleveland, O.
Westervelt, A. B. & W. T., 102 Chambers, New York
WISCONSIN IRON & WIRE WORKS, 190 E Water, Milwaukee, Wis. (See adv. index, end of book)

Settees & Chairs (Lawn)

Adams Company ("Iron Fence"), Dubuque, Ia.
AMOS, CHARLES & CO., 94 W Larned, Detroit, Mich. (See adv. index, end of book)
Badger Wire & Iron Works (Iron), Milwaukee, Wis.
Bausman, D. H. (Wood, Iron Frame), Bausman, Pa.
Beleber & Taylor Ag'l Tool Co., Chicopee Falls, Mass.
Bernstein Mfg. Co. (Wood, Iron Frame), 3d & Westmoreland, Phila., Pa.
Buckstaff-Edwards Co., Oshkosh, Wis.
BUFFALO WIRE WORKS CO., 316 Terrace, Buffalo, N. Y. (See adv. index, end of book)
CANTON FOUNDRY & MACHINE CO. (Wood, Iron Frame), Canton, O. (See adv. index, end of book)
Champlain Mfg. Co. (Wood, Iron Frame), Burlington, Vt.
Crocker Chair Co., Sheboygan, Wis.
Donaldson Bros., Mt. Clemens, Mich.
Farquhar, A. B. Co. York, Pa.
Fiske, J. W. Iron Works, 39 Park pl, New York
Fletcher & Webster Furniture Co. Nashua, N. H.
Gold Medal Camp Furniture & Novelty Mfg Co., Racine, Wis.
Kalamazoo Sled Co. (Bent Wood, Folding & Swinging), Kalamazoo, Mich.
Keystone Farm Machine Co., York, Pa.
McCormack Mfg. Co. (Wood), Des Moines, Ia.
Mann Bros., 33 Erie, Milwaukee, Wis.
Michael, Cbas. H. Mfg. Co. (Wood), Laporte, Ind.
Mott, J. L. Iron Works (Wood, Iron Frame), 88 Beekman, N. Y.
Moulton, C. W. H. & Co., Somerville, Mass.
Nashua Novelty Works, Nashua, N. H.
National Novelty Corporation, 826 B'way, New York
Ohio Rake Co., Dayton, Ohio
OHIO STRUCTURAL IRON CO. (Wrought Iron), Sandusky, O. (See adv. index, end of book)
Stewart Iron Works Co., 716 E 3d, Cincinnati, Ohio
Western Implement Co., Port Washington, Wis.
WISCONSIN IRON & WIRE WORKS, 190 E Water, Milwaukee, Wis. (See adv. index, end of book)

Setters (Skein)
Williams, White & Co., Moline, Ill.

Setters (Tie Plate)
Pittsburg Tool & Drop Forge Co. ("Cheswick"), Works, Cheswick, Pa.

Setters (Tire)
Forward, W. M. Co., Sycamore, Ill.
McGovern Tire Setter Co., Cincinnati, O.
MacGowan & Finigan Fdy & Machine Co. (House Cold), Gay bldg, St. Louis, Mo.
National Machine Co. ("Hercules" Hydraulic), Keokuk, Ia.
Standard Tire Setter Co. ("Henderson's" Hand Power), Keokuk, Ia.
West Tire Setter Co., Rochester, N. Y.

Sewage Disposal Outfits (Odorless)

Edson Mfg. Co., 257 Atlantic av, Boston, Mass.
Noble, Henry A. ("National" & "The Improved"), 203 Dock, Philadelphia, Pa.

Sewage Disposal Plants

American Sewage Disposal Co., 643 Old South bldg, Boston, Mass.
Bacterial Sewage Purification Co., 32 B'way, Bonnot Co., Canton, O.
Cameron Septic Tank Co. (Septic Tank System), Monadnock Bldg., Chicago, Ill.
City-Wastes Disposal Co., 156 5th av., New York
Decarle Mfg. Co., 200 1st av, Minneapolis, Minn.
Ellis, G. V. Sewer Lift Co., 274 Ninth av., New York
International Sewerage Disposal Co. (Liquid Waste & Purifying of Water Supply for Cities, etc.), Paddock bldg, Boston, Mass.
Lewis & Kitchen, 433 Wabash av., Chicago, Illinois
MERRITT & CO., 1024 Ridge av, Phila., Pa. (See adv. index, end of book)
Modern Iron Works ("Rhoads-Williams" Raw Sewage Syphon), Quincy, Ill.
Nelson, N. O. Mfg. Co. (Septic Tank Sewage Disposal System), St. Louis, Mo.
New York Sewage Disposal Co., 1 Madison av., New York
Pacific Flush Tank Co., 84 Lasalle, Chicago
Sanitary Engineering Co., 237 B'way, N. York
Walker, Robt. L., 15 Park Row, New York
Waring, Chapman & Farquhar ("Waring" System), 874 B'way, New York
Williams & Whitman, Whitehall bldg, New York

*Sewage Distributors

MERRITT & CO., 1024 Ridge av, Phila., Pa. (See adv. index, end of book)

Sewer Braces

Dixon, Cbas. E. & Son, 3027 Liberty av, Pittsburg, Pa.
DUFF MFG. CO. (& Trench), 405 Marion av., Allegheny, Pa. (See adv. index, end of book)
Dunn Mfg. Co. ("Dunn" Alliance), Westinghouse bldg, Pittsburg, Pa.
Kalamazoo Foundry & Machine Co., Kalamazoo, Mich.
Potter Mfg. Co., Indianapolis, Ind.

Sewer Buckets

(See Buckets, Various Kinds, also Tubs, Various Kinds.)

Sewer Builders

(See Contractors, General.)

Sewer Excavating Machinery

(See Machinery, Sewer Excavating.)

Sewer Inlet Mfrs.

AMERICAN BRAKE SHOE & FOUNDRY CO., 170 B'way, New York. Works & Sales Office, Chicago Heights, Ill. (See adv. index & branch offices, end of book)
American Municipal Supply Co., Cleveland, O.
Barber Mfg. Co., Ashtabula, O.
Buckeye Foundry Co., 2257 Buck, Cincinnati, O.
Carlin's, Thos. Sons Co., 1300 River av, Allegheny, Pa.
City Foundry Co., 1151 Hamilton, Cleveland, O.
Co-Operative Foundry Co., Detroit, Mich.
Curry & Co., Meadville, Pa.
Davis & Thomas Co., Catasauqua, Pa.
DEFIANCE MACHINE WORKS, Defiance, O. (See adv. index & branch offices, end of book)
Duplex Mfg. Co., New England bldg, Cleveland, O.
Ford & Kimball, Concord, N. H.
Greger Mfg. Co., 22d & Wash'n av, Phila., Pa.
Hartnett, John J., Albany, N. Y.
Hayes Foundry Co., Lynn, Mass.
Hubbell, F. W., Pittsfield, Mass.
Kramer Bros. Foundry Co., Dayton, O.
Kuhns Bros., Dayton, O.
McDonald Bros., Columbus, O.
McDonald, H. W. & Son ("Star"), Gallon, O.
Madison Ave. Foundry Co. (The "Acme"), Cleveland, O.

Muncie Foundry & Machine Co., Muncie, Ind.
NATIONAL BLOWER WORKS, 17th
 & St. Paul av, Milwaukee, Wis. (See adv.
 index, end of book)
 Over, Edward, 426 S Penn. Indianapolis, Ind.
 Sessions Foundry Co., Bristol, Conn.
 Shunk Plow Co., Bucyrus, O.
 South Bend Foundry Co., South Bend, Ind.
 Thompson, J. & Co., c Van Horn & Sophia,
 Philadelphia, Pa.

Sewer Lifts

Ansonia Mfg. Co., 355 W. 26th, New York
 Ellis, Geo., Sewer Lift Co. (Automatic), 274
 9th av., New York

Sewer Manhole Covers

(See Manhole Covers)

Sewer Manhole Steps

ANDERSON, W. H. TOOL & SUPPLY CO.,
 14 Macomb, Detroit, Mich. (See adv. in-
 dex & branch offices, end of book)
 Co-Operative Foundry Co., Detroit, Mich.
 Maher & Flockhart, 62 Polk, Newark, N. J.

Sewer Pipe Machinery

(See Machinery, Sewer Pipe.)

Sewer Pipe Mfrs.

American Clay Products Co., Chamber of
 Commerce, bldg, Chicago, Ill.
 American Sewer Pipe Co., Bessemer bldg,
 Pittsburgh, Pa.
 Anderson Bridge & Scraper Co. (Metal), An-
 derson, Ind.
 Appleton Sewer Pipe Co., Appleton, Wis.
 Argillo Works, Carbon Cliff, Ill.
 Athens Fire Brick Co., Athens, Tex.
 Avon Milling & Mfg. Co., Avon, Ill.
 Bannon Brick & Sewer Pipe Co., Louisville,
 Ky.
 Berthelet, H., Sewer Pipe Co. (Cement), Mil-
 waukee, Wis.
 Blackmer & Post Pipe Co., Wainwright bldg,
 St. Louis, Mo.
 Boynton, C. W., Seward, N. J.
 Bracket, C. A. Cement Co., 121 W. 8th, Kan-
 sas City, Mo.
 Browell, Jeremiah, 727 Montgomery, San Fran-
 cisco, Cal.
 Buckeye Fire Clay Co., Uhrichsville, O.
 Buckeye Sewer Pipe Co., Akron, O.
 Butte Sewer Pipe & Tile Co., Butte, Mont.
 Central N. Y. Drain Tile Co., 217 S. Warren,
 Syracuse, N. Y.
 Chicago Sewer Pipe Co., c W 18th pl & S
 Rockwell, Chicago, & Brazil, Ind.
 Clark, N. & Sons, 19 Spear, San Francisco,
 Cal.
 Clawson, L. E. & Co., San Francisco, Cal.
 Cowden, F. H. & Son, Harrisburg, Pa.
 Dee, Wm. E. Clay Mfg. Co., Royal Ins. bldg,
 Chicago, Ill. Works. Mecca, Ind.
 Delaware Clay Mfg. Co., Delaware, O.
 Denny-Renton Clay & Coal Co., Seattle, Wash.
 Denver Sewer Pipe & Clay Co., Continental
 bldg, Denver, Colo.
 Denver Terra Cotta Lumber Co.
 Dickey, W. S. Clay Mfg. Co., Kansas City,
 Mo.
 Duffy, J. P. Co., 440 E. 138th St., New York,
 N. Y.
 Duquesne Fireproofing Co., 421 Wood, Pitts-
 burg, Pa.
 East Ohio Sewer Pipe Co., Irondale, O.
 Elchelberger's, T. D. Sons, Dayton, O.
 Evens & Howard Fire Brick Co. (Up to 36
 inches), 920 Market, St. Louis, Mo.
 Excelsior Clay Works, Brazil, Ind.
 Federal Clay Mfg. Co., B'way & 23rd, New
 York
FISKE & CO. Inc. (Dealers), 161 Devon-
shire, Boston, Mass. & Flat Iron Bldg.,
New York. (See adv. index, end of book.)
 Georgia Vitrified Brick & Clay Co., Augusta, Ga.
 Gladding, McBean & Co., Rialto bldg, San
 Francisco, Cal.; Works, Lincoln, Cal.
 Granite Clay Co., Akron, O.
 Harvey, Moland & Co., 620 Arch, Phila., Pa.
 Haydenville Mining & Mfg. Co., Haydenville,
 O.
 Hutchins, John A. & Co. 3 to 24 inches),
 Wyoming, Pa.
 Illinois Mfg. Co., Macomb, Ill.
 Iowa Pipe & Tile Co., Des Moines, Iowa.
 Joliet Mound Drain Tile Co., Joliet, Ill.

Kessler Brick & Sewer Pipe Co., Helena, Mont.
 Laclede Fire Brick Mfg. Co., Manchester &
 Sulphur avs, St. Louis, Mo.
 Little Falls Fire Clay Co., Tacoma, Wash.
 Works: Little Falls, Wash.
 Los Angeles Stoneware & Sewer Pipe Co., Los
 Angeles, Cal.
 Louisville Brick & Tile Co., Louisville, O.
 McNutt, Lewis, Brazil, Ind.
 Mack Mfg. Co., Land Title bldg, Phila., Pa.;
 Works, New Cumberland, W. Va.
 Macomb Sewer Pipe Co., Macomb, Ill.
 Michigan Sewer Pipe Co., Jackson, Mich.
 Monmouth Mining & Mfg. Co., Monmouth, Ill.
 Montague & Co., Chattanooga, Tenn.
 National Terra Cotta Works, 316 13th, N. W.,
 Washington, D. C.
 New York Pottery Co., 949 B'way, New York.
 New York State Sewer Pipe Co. (Selling
 Agents), Insurance bldg, Rochester, N. Y.
 Northwestern Clay Co., New Windsor, Ill.
 Owensboro Brick & Sewer Pipe Co., Owens-
 boro, Ky.
 Ohio River Sewer Pipe Co., Empire, O.
 Pacific Clay Mfg. Co., 235 S. Los Angeles,
 Los Angeles, Cal.
 Patton Clay Mfg. Co., Patton, Pa.
 Pittsburg-Buffalo Co., Frick bldg, Pittsburg
 Pittsburg Brick & Pipe Co., Pittsburg, Kans.
 Pittsburg Sewer Pipe & Conduit Co., Pitts-
 burg, Kans.
 Pomona Terra Cotta Co., Pomona, N. C.
 Post Pipe Co., Texarkana, Tex.
 Potomac Terra Cotta Co., Corcoran bldg Wash-
 ington, D. C.
 Red Wing Sewer Pipe Co., Red Wing, Minn.
 Rhode Island Cement Drain Pipe Co. (Ce-
 ment), 50 Valley, Providence, R. I.
 Reeve, Augustus, Camden, N. J.
 Richmond Clay Product Co., Reading, Pa.
 Robinson Clay Product Co., Akron, O.
 Rochester Sewer Pipe Co., Rochester, N. Y.
 Rose, Jas. V. & Son, Sharon, Pa.
RUTLAND FIRE CLAY CO., Rutland, Vt.
 (See adv. index & branch offices, end of
 book)
 St. Mary's Sewer Pipe Co., St. Mary's Pa.
 San Antonio Sewer Pipe Co., San Antonio,
 Texas
 Schuylkill Valley Clay Mfg. Co., Mutual Life
 bldg, Phila., Pa. Works, Shoemakerville,
 Pa.
 Southern Sewer Pipe Co., Birmingham, Ala.
 Standard Sewer Pipe Co., Rochester, N. Y.
 Steven's, H. Sons Co., Macon, Ga.
 Stratton Fire Clay Co., Empire, O.
 Streater Clay Mfg. Co., Streater, Ill.
 Syracuse Stoneware Co. (Branch of Robinson
 Clay Product Co. of Akron, O.), 401 Ful-
 ton, Syracuse, N. Y.
 Uhl Pottery Co., Evansville, Ind.
 Webster Bros., Shelbyville, Ill.
 White Hall Sewer Pipe & Stoneware Co.,
 White Hall, Ill.
 Williams, N. A. Co., Chamber of Commerce
 bldg, Chicago, Ill.
 Witbycomb, Philip, North Yamhill, Ore.

Sewer Pipe Mfrs. (Cement)

Wilson & Baillie Mfg. Co. ("Kosmocrete"), 85
 9th, Brooklyn, N. Y.

Sewer Pipe Mfrs. (Reinforced Cement)

Reinforced Concrete Pipe Co., Jackson, Mich.

Sewer Siphons

(See Flush Tank Mfrs.)

Sewers (Web Tile System)

National Web Tile Sewer Co. (Parent Com-
 pany), S. A. & K. bldg., Syracuse, N. Y.

Sewing Machine Mfrs.

Ames Mfg. Co., Chicopee, Mass.
 Arlington Machine Works, Arlington, Mass.
 Arnold Sewing Machine Co., Newark, N. J.
 Birch Bros., Somerville, Mass.
 Chicago Wheel & Mfg. Co., 39 W Randolph,
 Chicago, Ill.
 Curtis & Marble Machine Co. (Railway), Wor-
 cester, Mass.
 Davis Sewing Machine Co., Dayton, O.
 Demorest Mfg. Co., Williamsport, Pa.
 Dinsmore Mfg. Co., Salem, Mass.
 Fales, L. F. ("Maniplex"), Walpole, Mass.

Foley & Williams Mfg. Co., 46 E Jackson boul,
 Chicago, Ill.
 Illinois Sewing Machine Co., Wahash & Ran-
 dolph, Chicago, Ill.; Works, Rockford, Ill.
 Industrial Mfg. Co., Camden, N. J.
 Kruse Sewing Machine Co., 162 W. 23d, N. Y.
 Kruse & Murphy Mfg. Co., Park av & E 130th,
 New York
 Merchants Specialty Mfg. Co. ("Simplicity"),
 259 Greenwich, New York
 Metropolitan Sewing Machine Co., Nyack, N. Y.
 Morley Button Sewing Machine Co., 133 Essex,
 Boston, Mass.
 National Sewing Machine Co., Belvedere, Ill.
 New Domestic Sewing Machine Co., 18 Ex-
 change place, New York
 New Home Sewing Machine Co., Orange, Mass.
 Self-Threading Sewing Machine Co.
 Simmons Hardware Co. ("Volo"), St. Louis,
 Mo.
 Singer Sewing Machine Co., 149 B'way, N. Y.
 Smith & Egge Mfg. Co. (Automatic Hand),
 Bridgeport, Conn.
 Standard Sewing Machine Co., Cleveland, O.
 Stanley Mfg. Co. (Shoe Sewing), Boston, Mass.
 Union Button Sewing Mach. Co., 164 High,
 Boston, Mass.
 Union Special Sewing Machine Co., 75 E Kin-
 zle, Chicago, Ill.
 White Co., 3238 Loraine av, Cleveland, O.
 Wilcox & Gibbs Sewing Machine Co., 658
 B'way, New York
 Williams Mfg. Co., Plattsburg, N. Y.

Sewing Machine Parts & Sup- plies

Sewing Machine Supplies Co., Boston, Mass.
 (For branch offices, see end of book).

Sewing Machines (Bag)

Union Special Sewing Machine Co., 75 E Kin-
 zle, Chicago, Ill.
 Wilcox & Gibbs Sewing Machine Co., 658
 B'way, N. Y.

Sewing Machines (Boot & Shoe)

Davis Sewing Machine Co., Davis & Linden
 av, Dayton, Ohio
 Dunlap Machinery Co., 69 Beekman, New York
 Field Shoe Machinery Co., 53 High, Boston,
 Mass.
 Puritan Shoe Mfg. Co., 82 Lincoln, Boston,
 Mass.
 Smith, Geo. A. Machinery Co., 415 Arch,
 Phila., Pa.
 Stanley Mfg. Co., 99 Beach, Boston, Mass.
 Tennis, A. H., 47 E 19th, New York
 Treen-Sawyer Mfg. Co., Lynn, Mass.
 Union Special Machine Co., 47 Leonard, New
 York
 White Sewing Machine Co., Rose bldg. Clevel-
 and, Ohio

Sewing Machines (Button Hole)

National Machine Co., Mamaroneck, N. Y.

Sewing Machines (Carpet)

Consolidated Carpet Sewing Machine Co.,
 Bridgeport, Conn.
 Singer Sewing Machine Co., 149 B'way, N. Y.
 Taft Machine Co., Providence, R. I.

Sewing Machines (Chain Stitch)

Kruse & Murphy Mfg. Co., Park av & E 130th,
 New York
 Singer Sewing Machine Co., 149 B'way, N. Y.
 Wilcox & Gibbs Sewing Machine Co., 658
 B'way, N. Y.

Sewing Machines (Glove)

Ahlstrom, O. J., 711 B'way, New York
 Curtin-Herbert Mfg. Co., 75 S Main, Glovers-
 ville, N. Y.
 White Sewing Machine Co., Cleveland, O.
 Wilcox & Gibbs Sewing Machine Co., 658
 B'way, New York
 Williams Mfg. Co., Montreal, Canada.

Sewing Machines (Hat)

Durbrow & Hearne Mfg. Co., 12 Wooster,
 N. Y.

Shackles (Chain)

Hayden-Corbett Chain Co., Columbus, O.
Laughlin Thos. Co., Portland, Me.
McMILLAN'S, W. H. SONS, 153 South, New York. (See adv. index, end of book)
Wilcox, Crittenden & Co. (Screw & Pin, etc.), Middletown, Conn.

*Shade Cloth Cutting Machines

CAMERON MACHINE CO., 61 Poplar, Brooklyn, N. Y. (See adv. index, end of book)

*Shade Cloth Mfrs.

Breneman, Chas. W. & Co., Cincinnati, O.
Columbia Shade Cloth Co., 30 E. 21st, N. Y.
Minetto Shade Cloth Co., Oswego, N. Y.
Oswego Shade Cloth Co. ("Chouaguen"), Oswego, N. Y.

*Shade Cord Mfrs.

(See also Cords, Trolley Arc Lamp & Bell)
SAMSON CORDAGE WORKS, 88 Broad, Boston, Mass. (See adv. index, end of book)
SILVER LAKE CO., 78 Chauncy, Boston, Mass. (See adv. index, end of book)

Shades (Aluminum)

Dale Co., 352 W. 13th, New York.
Faries Mfg. Co., Decatur, Ill.

Shades (Car Window)

(See Car Curtains & Materials.)

Shades (Glass or Porcelain)

Acorn Shade & Reflector Co., Chicago, Ill.
Addison Glass Works, Addison, N. Y.
Cleveland Window Glass Co., Cleveland, Ohio
Dayton Art Glass Works (Art Glass), Dayton, Ohio
Gilbert Prism Hood Co., New York City
Gill & Co. (Washington Flint Glass Works), 2327 E. Thompson, Philadelphia, Pa.
Gillender & Sons (Inc.), 135 Oxford, Philadelphia, Pa.
Haskins Glass Co., Martins Ferry, Ohio.
Illuminating Engineering Co. ("Pagoda"), 201 E. 16th, New York
Kneeland Reflector Co., 18 Pitts. Boston, Mass.
McCreary, A. A., 136 Liberty, New York
Murray, James J. & Co., c E Willard & Collins, Philadelphia, Pa.
National X-Ray Reflector Co., 126 Franklin, Chicago, Ill.
Pairpoint Corp'n, New Bedford, Mass.
Pettingell, Andrews Co., Boston, Mass.
Phoenix Glass Co. ("Electric & Gas"), 2d Nat'l Bank Bldg., Pittsburgh, Pa., 13 Murray, New York
Sandwich Glass Co., Sandwich, Mass.
Shelby Electric Co., Shelby, Ohio
Sunlight Reflector Co., 141 Court, Brooklyn, N. Y.
Unique Art Glass & Metal Co., 105 Vanderveer, Brooklyn

Shades (Glass, Pressed or Blown)

Gillender & Sons (Inc.), 135 Oxford, Phila., Pa.
United States Glass Co., Bingham & S 9th, Pittsburgh, Pa.

Shades (Glass & Metal)

McCreary, A. A. (Shades: Half Glass and Metal), 136 Liberty, N. Y.
SALO ART METAL CO. (For Gas & Electric Portables), 462 E 136th, New York. (See adv. index, end of book)

Shades (Mirror Lined)

Bailey Reflector Co., 547 4th av, Pittsburgh, Pa.
FRINK, ISAAC P., 551 Pearl, N. Y. (See adv. index, end of book)

Shades (Paper)

Applied Device Co., Springfield, Mass.
Hohenstein, H., N. Y. City
McCreary, A. A. (Decoration), 136 Liberty, New York City
Utility Shade Co., Tenafly, N. J.

Whaley, J. A. & Co., N. Y. City
Will & Baumer Co., N. Y. City
Yost Electric Mfg. Co., Toledo, Ohio

Shades (Prismatic)

Gilbert Prism Hood Co. (For Electric Lamps), 99 Warren, New York
Helophane Glass Co., 227 Fulton, New York
Prismatic Hood Co., 310 Broadway, New York, N. Y.

Shades (Silk)

Dale Co., 9th av & 13th, N. Y. City
FRINK, ISAAC P., 551 Pearl, N. Y. (See adv. index, end of book)
Hohenstein, H., N. Y. City
Whaley, J. H. & Co., N. Y. City
Will & Baumer Co., N. Y. City

Shades (Trolley Vestibule)

Electric Service Supplies Co., 1024 Filbert, Phila., Pa.

Shades (Window & Porch)

Hough Shade Corporation ("Vudor"), Janesville, Wis.

*Shades & Reflectors (Electric Light)

(See also Shades & Reflectors, various kinds.)
FRINK, ISAAC P., 551 Pearl, N. Y. (See adv. index, end of book)
MORSE, FRANK W., 116 Bedford, Boston, Mass. (See adv. index, end of book)

Shades & Reflectors (Metallic)

American Reflector & Lighting Co. ("Paragon"), 199 E Van Buren, Chicago, Ill.
Bailey Reflector Co., 547 4th av, Pittsburgh, Pa.
Baltimore Enamel & Novelty Co. cor. Allen & Clement, Baltimore, Md.
Berggreu Mfg. Co., St. Paul, Minn.
Chicago Lamp & Reflector Co., 319 S Canal, Chicago, Ill.
Cutter, George Co., South Bend, Ind.
Dale Co., 352 W. 13th, New York.
D'Olier, Henry, Jr., Co., 119 S 11th, Philadelphia, Pa.
Dorn, Philip ("Dawn"), Boston, Mass.
Faries Mfg. Co., Decatur, Ill.
Federal Electric Co., c Lake & N. Desplaines, Chicago, Ill.
FRINK, ISAAC P., 551 Pearl, New York. (See adv. index, end of book)
Glcason, E. P., Mfg. Co., 37 Murray, N. Y.
Globe Light & Heat Co., 218 La Salle, Chicago, Ill.

Hathaway Electric Co., N. Y. City
Hubbell, Harvey, Bridgeport, Conn.
Klemm & Co., 132 N 5th, Philadelphia, Pa.
McCreary, A. A. (Shades), 136 Liberty, New York City
McLeod, Ward & Co., 27 Thames, New York.
MORSE, FRANK W., 116 Bedford, Boston, Mass. (See adv. index, end of book)
Ostrander, W. R. & Co., 22 Dey, New York.
Overbaugh & Ayres Mfg. Co., 232 S Clinton, Chicago, Ill.
Pardridge Shade & Reflector Co., Chicago, Ill.
Proctor-Raymond Mfg. Co. ("Hartwig"), 40 Larned, Detroit, Mich.
Roberts, H. C. Electric Supply Co. ("Crown"), 905 Arch, Philadelphia, Pa.
Sarco Co., 906 6th av., New York.
Schwartz & Silberman, 72 W B'way, N. Y.
Pea Tray Co. ("Tidman," "Martin"), c Mulberry & Murray, Newark, N. J.
Vallee Bros. Electrical Co. ("Crescent"), 816 Arch, Philadelphia, Pa.
Western Reflector Co., 315 W Lake, Chicago, Ill.
Wheeler Reflector Co., 156 Pearl, Boston, Mass.

Shades & Reflectors (Mirror)

Acorn Shade & Reflector Co., Chicago, Ill.
American Reflector & Lighting Co. ("Paragon"), 210 Van Buren, Chicago, Ill.
Chicago Lamp & Reflector Co. ("Blocks Brilliant"), 319 S Canal, Chicago, Ill.
FRINK, ISAAC P., 551 Pearl, New York. (See adv. index, end of book)

Klemm & Co., 132 N 5th, Philadelphia, Pa.
Overbaugh & Ayres Mfg. Co., 232 S Clinton, Chicago, Ill.
Sunlight Reflector Co., 141 Court, Brooklyn, N. Y.
Tea Tray Co., c Mulberry & Murray, Newark, N. J.
Weekes, Nelson, 217 William, New York.
Western Reflector Co., 315 W Lake, Chicago, Ill.
Wheeler Reflector Co., 156 Pearl, Boston, Mass.

Shaft Straightening Machines

(See Machines, Shaft Straightening.)

Shafting (Cold Drawn Steel)

AMERICAN STEEL & WIRE CO., The Rookery, Chicago, Ill. (See adv. index & branch offices, end of book)
Cambria Steel Co., Arcade bldg, Philadelphia, Pa.
Columbia Bridge Co. (Die Rolled; also Cold Rolled), Park bldg, Pittsburgh, Pa.
Cresson, Geo. V. Co., 18th & Allegheny av, Phila., Pa.
Crucible Steel Co. of America, Frick bldg, Pittsburgh, Pa.
DODGE MFG. CO., Mishawaka, Ind. (See adv. index & branch offices, end of book)
Falls Rivet & Machine Co., Cuyahoga Falls, O.
Jones & Laughlin Steel Co. (also Cold Rolled), Pittsburgh, Pa.
Medart Patent Pulley Co., 3500 De Kalb, St. Louis, Mo.
Pennsylvania Shafting Co., Spring City, Pa.
Republic Iron & Steel Co., Frick bldg Annex, Pittsburgh, Pa.
UNION DRAWN STEEL CO., Beaver Falls, Pa., & 460 Washn., New York, N. Y.

*Shafting (Cold Rolled)

MINNEAPOLIS STEEL & MACHINERY CO., Minneapolis, Minn. (See adv. index & branch offices, end of book)

Shafting Collars

BROWN, A. & F. CO., 25 Dey, New York Works, Elizabethport, N. J. (See adv. index, end of book)
Chain Belt Co., Milwaukee, Wis.
Cresson, Geo. V. Co., Allegheny av, W of 17th, Phila., Pa.
DODGE MFG. CO., Mishawaka, Ind. (See adv. index & branch offices, end of book)
Falls Rivet & Machine Co., Cuyahoga Falls, O.
Huntsville Foundry & Machine Works (Nolan & Jones, props.), Huntsville, Ala.
Jones & Laughlin Steel Co., Pittsburgh, Pa.
Keystone Drop Forge Works (Drop Forged, Blanks, etc.), Chester, Pa.
Klein, Chas. C., 2850 N Marshall, Phila, Pa.
Medart Patent Pulley Co. (Plain or Safety Type), St. Louis, Mo.
Middletown Machine Co., Middletown, O.
Patterson, Gottfried & Hunter (Ltd.), 150 Center, New York
Platt Iron Works Co., Dayton, O.
Poole Engineering & Machine Co., Woodberry Station, Baltimore, Md.
Rhode Island Tool Co. (Cold Punched), Providence, R. I.
Smith, Ira B. (Split & Solid), Bristol, Conn.
Spencer, E. & Son, Hoodus, Conn.
WILLIAMS, J. H. & CO. (Drop Forged), 150 Hamilton av, Brooklyn, N. Y. (See adv. index, end of book)

Shafting (Hollow Seamless Steel)

DODGE MFG. CO., Mishawaka, Ind. (See adv. index & branch offices, end of book)
Standard Seamless Tube Co., Eliwood City, Pa.

Shafting (Iron & Steel)

AMERICAN STEEL & WIRE CO., Rookery, Chicago. (See adv. index & branch offices, end of book)
DODGE MFG. CO., Mishawaka, Ind. (See adv. index & branch offices, end of book)
Penn Iron Co. (Iron only), Lancaster, Pa.
Reading Iron Co. (Forged), Reading, Pa.

Shafting (Polished Steel)

AMERICAN STEEL & WIRE CO., The
Rookery, Chicago, Ill. (See adv. index & branch offices, end of book)
Bliss & Laughlins (Keyseated & Fitted with Couplings), Harvey, Ill.
Brightman Mfg. Co. (1/4 to 6 inches, inclusive), Shelby, O.

BROWN, A. F. & CO., 25 Dey, New York.
Works, Ellizabethport, N. J. (See adv. index, end of book)
Buffalo Steel Shafting Co., ft Baltz av, Buffalo, N. Y.

Cambria Steel Co., Johnstown, Pa.; Arcade bldg, Philadelphia, Pa.
Columbia Bridge Co., Park bldg, Pittsburg, Pa.
Compressed Steel Shafting Works, 393 Dorchester av, Boston, Mass.

Crucible Steel Co. of America, Frick bldg, Pittsburg, Pa.
Cumberland Steel Co. (Turned & Ground), Cumberland, Md.

DODGE MFG. CO., Mishawaka, Ind.
(See adv. index & branch offices, end of book)
Finlshed Steel Co., Youngstown, O.

Fitzsimons & Co., 626 B'way, Cleveland, O.
FREVERT MACHINERY CO. (Mfrs.)
Agts.), 18 Dey, New York. (See adv. index, end of book)

Jones & Laughlin Steel Co., Pittsburg, Pa.
Medart Patent Pulley Co., 3500 De Kalb av, St. Louis, Mo.

Penn Shafting Co., Spring City, Pa.
***Republic Iron & Steel Co.,** Frick bldg Annex, Pittsburg, Pa.

UNION DRAWN STEEL CO., Beaver Falls Pa., & 460 Washn., New York, N. Y.

Shafting (Turned)

ALLIS-CHALMERS CO., Milwaukee, Wis.
(See adv. index & branch offices, end of book)

American Tool & Machine Co. (Iron), 109 Beach, Boston, Mass.
BROWN, A. & F. CO., 25 Dey, New York. Works, Ellizabethport, N. J. (See adv. index, end of book)

Cleveland City Forge & Iron Co., 67 Case av, Cleveland, O.

DODGE MFG. CO., Mishawaka, Ind.
(See adv. index & branch offices, end of book)

FREVERT MACHINERY CO., 18 Dey,
New York. (See adv. index, end of book)
Medart Patent Pulley Co. (Steel), 3500 De Kalb, St. Louis, Mo.

MINNEAPOLIS STEEL & MACHINERY Co. (Steel), Minneapolis, Minn. (See adv. index & branch offices, end of book)

STANDARD GAUGE STEEL CO.,
Beaver Falls, Pa. (See adv. index, end of book)

Tioga Steel & Iron Co., 52d & Gray's av, Phila., Pa.
Titusville Forge Co. (Forged 10 lbs. to 20 Tons)
Titusville, Pa.

UNION DRAWN STEEL CO. (Steel),
Beaver Falls, Pa., & 460 Washn., New York, N. Y.

Shafts (Flexible)

Chicago Flexihle Shaft Co., La Salle av & Ontario, Chicago, Ill.

COATES CLIPPER MFG. CO. ("Coates")
Unit Link), Worcester, Mass. (See adv. below)

Gem Mfg. Co. ("Gem"), Spruce nr 33d, Pittsburg, Pa.

Stow Flexible Shaft Co., N 26th & Buttonwood Pbladelphia, Pa.

Stow Mfg. Co., Binghamton, N. Y.

Shafts (Key Seating)

DODGE MFG. CO., Mishawaka, Ind.
(See adv. index & branch offices, end of book)

Judson Mfg. Co., cor Howard & Beale, San Francisco, Cal

Licking Rolling Mill Co., Covington, Ky.

Lockhart Iron & Steel Co., McKee's Rocks, Pa.

Pardee, C., Works (Planished), Perth Amboy, N. J.

Penn Iron Co. (Iron), Lancaster, Pa.

Pittsburg Steel Shafting Co., Braddock, Pa.

Reading Iron Co., Reading, Pa.

Republican Iron & Steel Co. General Offices:
First National Bank bldg, Chicago, Ill.

STANDARD GAUGE STEEL CO.,
Beaver Falls, Pa. (See adv. index, end of book)

UNION DRAWN STEEL CO., Beaver Falls, Pa., & 460 Washn., New York, N. Y.

Shampoos

Edwardsville Brass Co., Edwardsville, Ill.

***Shanks (Carrying)**

ANDERSON FORGE & MACHINE CO.,
(Double & Single), 271 Guoin, Detroit, Mich. (See adv. index, end of book)

Shapers (Saw)

Covel Mfg. Co., Benton Harbor, Mich.

***Shapes (Pressed Metal)**

AMERICAN PULLEY CO., 29th c. Bristol, Phila., Pa. (See adv. index, end of book)

Shaping Machines

(See Machines, Shaping.)

Shares (Plow & Lister)

Crescent Forge & Shovel Co. (Plow), Havana, Ill.

Havana Metal Wheel Co. ("Crescent"), Havana, Ill.

Star Mfg. Co., Carpentersville, Ill.

Weyburn Co., Rockford, Ill.

Sharpeners (Disc)

R. B. Mfg. Co., Davenport, Ia.

Benecia Iron Works ("Peerless"), Benecia, California

Chicago Wheel & Mfg. Co. (Gem), Chicago, Ill.

Clark Mfg. Co. (Moline), Moline, Ill.

Clizbe Bros. Mfg. Co. (Plymouth), Plymouth, Ind.

Deere & Mansur Co., Moline, Ill.

COATES

FLEXIBLE SHAFT OUTFITS

1-10 TO 150 H.P. ALL THE SAME TO US.



Both motor and belt-driven outfits. Flexible shafting built on the unit link ball-bearing type. Run it in either direction. Used for drilling, grinding, buffing, varnish rubbing, sand papering, etc.

GET AFTER US, SO THAT WE MAY GET AFTER YOU.

COATS CLIPPER MFG. CO.

WORCESTER, MASS., U. S. A.



Hancock Disc Plow Co. ("Hancock"), Alton, Illinois
 Herschel, R. Mfg. Co. (Reliable), Peoria, Ill.
 Kane Bros. & Co., Warren, Ill.
 Lancaster Mfg. Co. (New Lancaster), Masillon, Ia.
 Luther, C. J. Co. (American & Star), Port Washington, Wis.
 Novelty Mfg. Co., Rock Island, Ill.
 Rock Island Plow Co., Rock Island, Ill.
 Schofield & Co. (Daisy), Freeport, Ill.
 Skow Bros., ("Skow"), Newton, Ia.
 Wenzelman Mfg. Co. (Farmers' Delight), Streator, Ill.

Sharpeners (Dowel)

Smith, H. B., Machine Co., Smithville, N. J.
 Stanley Rule & Level Co., New Britain, Conn.

*Sharpeners (Drill Steel)

INGERSOLL-RAND CO., ("Ajax"), 11 B'way, New York. (See adv. index & branch offices, end of book)

Sharpeners (File)

American File Sharpener Co. ("American"), 296 B'way, New York

Sharpeners (Knife)

American Cutlery Co. (the "Only"), 193 Mather, Chicago, Ill.
 Cassady-Fairbank Mfg. Co. (Emery & Corundum), 610 LaSalle, Chicago, Ill.

Sharpeners (Lawn Mower)

Arcade Mfg. Co. ("Schofield" Lawn Mower Grinder), Freeport, Ill.
 Chicago Wheel & Mfg. Co. (Gem), Chicago, Ill.
 Clizbe Bros. Mfg. Co., Plymouth, Ind.
HAMPDEN CORUNDUM WHEEL CO. (Brightwood), Springfield, Mass. (See adv. index, end of book)
 Root Bros. Co. ("Ideal" Grinder), Plymouth, Ohio
 Royal Mfg. Co., 408 Commerce, Phila., Pa.
 Wilcox Mfg. Co., Aurora, Ill.

Sharpeners (Mower Knife)

(See Sickle & Mower Knife Grinders.)

Sharpeners (Pencil)

Cook, F. H. & Co. ("Gem"), Leominster, Mass.

Sharpeners (Saw)

(See also Saw Sharpening Machines.)

Atkins, E. C. & Co. (Inc.) (Home Offices and Factories, Indianapolis, Ind.)
 Covell Mfg. Co. (Band Saw, etc.), Chicago, Ill.
 Disston, Henry & Sons (Inc.), Tacony, Phila., Pennsylvania
 Hanchett Swage Wks. ("Hanchett" Automatic), Big Rapids, Mich.
 Matteson Mfg. Co., 128 S Clinton, Chicago, Ill.
 Riverside Iron Works (Crescent), Kakama, Indiana
 Rotary File & Machine Co. ("Ideal"), 589 Kent av., Brooklyn, N. Y.
 Star Corundum Wheel Co. (Automobiles.), Detroit, Mich.
 Wickes Bros. (Hand, etc.), Saginaw, Mich.

*Sharpeners (Skate)

OSBORN MFG. CO. ("File 'em Quick"), 5401 Hamilton av. N. E., Cleveland, O.

Sharpeners (Tool)

Walker, Oakley S. & Co. (Globe for machine Tools), Worcester, Mass.

Shavers (Ice)

(See also Ice Cube Cutting Machines.)

Arcade Mfg. Co., Freeport, Ill.
 Blakeslee, G. S. & Co., 325 Dearborn, Chicago, Ill.
 Enterprise Mfg. Co., 3d & Dauphin, Phila., Pa.
 Erie Specialty Co. ("Walker's"), Erie, Pa.
 National Novelty Corp'n, 826 B'way, New York

North Bros. Mfg. Co., Lehigh av & American, Philadelphia, Pa.
 Reinhold Mfg. Co. ("Jumbo"), Detroit, Mich.
 Schulte, E. G. & Co., Cincinnati, O.
 Stortz, John & Son, 210 Vine, Phila., Pa.

Shavers (Smoked Beef)

Blakeslee, G. S. & Co. ("Blakeslee"), 325 Dearborn, Chicago, Ill., 260 B'way, New York, N. Y.
 Enterprise Mfg. Co., 3d & Dauphin, Phila., Pa.

Shaves (Spoke)

Chaplin-Stephens Co., Pine Meadow, Conn.
 Cincinnati Tool Co., Cincinnati, Ohio
 Goodell-Pratt Co., Greenfield, Mass.
 Johnson, Wm. (Hedenberg Works), (Wood), Newark, N. J.

Mack & Co., Rochester, N. Y.
 Ohio Tool Co., Columbus, Ohio
 Osborne, H. J. Co., Newark, N. J.
 Smith, Seymour & Son, Oakville, Conn.
 Stanley Rule & Level Co., New Britain, Conn.
 Stortz, Jno. & Son, 210 Vine, Philadelphia, Pa.
 Tatum, Sam'l C. Co., Cincinnati, Ohio

Shavings (Baled)

Alliger, F. I. Lumber Co., Tonawanda, N. Y.
 Butts, Chas. G. Co., No. Tonawanda, N. Y.
 Page, Geo. B. Box Co., Cambridge, Mass.
 Osgood, Blodgett Mfg. Co., St. Paul, Minn.

Shavings (Vinegar & Brewers')

Kelso & Co. (Clarifying), 209 S Clinton, Chicago, Ill.
 Redlich Mfg. Co., 2 Oak, Chicago, Ill.

Shavings (Zinc)

Braun, F. W. Co., Los Angeles, Cal.
 Calkins Co., Los Angeles, Cal.
 Denver Fire Clay Co., Denver, Col.
 Pacific Tank Co. (for Gold, Silver Precipitation), San Francisco & Los Angeles, Cal.

Shear Knives (Solid Steel)

(See Knives, Solid Steel Shear.)

Shearing & Punching Machinery

(See Machinery, Punching & Shearing.)

Shears

(Under this Heading see Sub-Classifications)
 (See Machinery, Punching & Shearing; also Punches, Various Kinds)

*Shears (Alligator)

(See also Shears, Crocodile)

CANTON FOUNDRY & MACHINE CO. ("Universal"), Canton, O. (See adv. index, end of book)

Shears (Angle Iron)

Alliance Machine Co., Alliance, O.
 Badger State Machine Co., Janesville, Wis.
BETHLEHEM FOUNDRY & MACHINE CO., South Bethlehem, Pa., & 149 B'way, New York. (See adv. index, end of book)
 Bertsch Machine Co., Cambridge City, Ind.
BLISS, E. W. CO., 19 Adams, B'klyn, New York. (See adv. index, end of book)
 Fischer Foundry & Machine Co., Pittsburg, Pa.
 Hilles & Jones Co., Wilmington, Del.
 Hogg, Geo. A., Iron & Steel Fdry. Co., 24th & A. V. Ry., Pittsburg, Pa.
 Long & Allstatter Co. (Steam, Belt or Motor Driven, Double or Single Geared & on Turntable), Hamilton, O.
 New Doty Mfg. Co., Janesville, Wis.
NIAGARA MACHINE & TOOL WKS., Buffalo, N. Y. (See adv. index, end of book)
 Niles-Bement-Pond Co., 111 B'way, New York
PERKINS MACHINE CO., Warren, Mass. (See adv. index, end of book)
 Pels, Henry & Co., 66 Broad, New York
 Phila. Roll & Machine Co., 23d & Wash'n Ave., Phila., Pa.
 Royersford Fdry & Machine Co., Royersford, Pa.

Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Phila., Pa.
 Sutton, C. E. Co. (Single & Double Power), Toledo, Ohio
 Toledo Machine & Tool Co., Toledo, O.
 United Engineering & Foundry Co., Farmers' Bank bldg, Pittsburg, Pa., & Youngstown, O.

WATSON-STILLMAN CO., 26 Cortlandt, New York. (See adv. index, end of book)
 Whiting, Geo. C. 156 W. North av., Chicago, Ill.
 Wickes Bros., Saginaw, Mich.
 Williams, White & Co., Moline, Ill.
 Wood, R. D. & Co., 400 Chestnut, Phila., Pa.

Shears (Bar & Plate)

Alliance Machine Co., Alliance, O.
 Badger State Machine Co., Janesville, Wis.
 Carlin's, Thos. Sons Co., 1300 River av, Allegheny, Pa.

CLEVELAND PUNCH & SHEAR WORKS Co., 1306 E. 40th, Cleveland, O. (See adv. index, end of book)

Fischer Foundry & Machine Co., Pittsburg, Pa.
 Garrison, A., Foundry Co., Pittsburg, Pa.
 Hogg, Geo. A. Iron & Steel Foundry Co., 24th & A. V. Ry., Pittsburg, Pa.
 Long & Allstatter Co. (Bar Iron, Steam, Belt or Motor Driven), Hamilton, O.
 Mesta Machine Co., Lewis blk, Pittsburg, Pa.
MORGAN ENGINEERING CO., Alliance, O. (See adv. index, end of book)

Newbold, R. S. & Son Co., Norristown, Pa.
 New Doty Mfg. Co., Janesville, Wis.

NIAGARA MACHINE & TOOL WKS., Buffalo, N. Y. (See adv. index, end of book)
 Philadelphia Roll & Machine Co., 23d & Wash., Phila., Pa.

Phillips & McLaren, 24th & Smallman, Pittsburg, Pa.

Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Phila., Pa.

United Engineering & Foundry Co., Pittsburg, Pa., & Youngstown, O.

Vulcan Foundry & Machine Co., New Castle, Pa.
 Whiting, Geo. Co. 156 W. North av., Chicago, Ill.

Williams, White & Co., Moline, Ill.
 Wood, R. D. & Co (Hydraulic), 400 Chestnut, Philadelphia, Pa.

Shears (Beam & Channel)

(See Shears, Angle Iron)

Shears (Bench)

NIAGARA MACHINE & TOOL WKS., Buffalo, N. Y. (See adv. index, end of book)

Oliver, W. W. Mfg. Co. (Jewelers), 1483 Niagara, Buffalo, N. Y.

Shears (Beveling)

Badger State Machine Co., Janesville, Wis.
CLEVELAND PUNCH & SHEAR WORKS Co., 1306 E. 40th, Cleveland, O. (See adv. index, end of book)

Fischer Foundry & Machine Co., Pittsburg, Pa.
 Hilles & Jones Co., 900 Church, Wilmington, Del.

Long & McAllstatter Co. (Boiler Plate, etc.), Hamilton, O.

New Doty Mfg. Co., Janesville, Wis.

NIAGARA MACHINE & TOOL WKS., Buffalo, N. Y. (See adv. index, end of book)

Niles-Bement-Pond Co., 111 B'way, New York

PERKINS MACHINE CO. (Plate Beveling), Warren, Mass. (See adv. index, end of book)

Ryerson, Jos. T. & Son ("Lennox" Rotary), 18 Milwaukee, av., Chicago, Ill.

Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Philadelphia, Pa.

United Engineering & Foundry Co. (Engine Driven for Rolling Mills), Farmers' Bank bldg, Pittsburg, Pa.

Shears (Billet & Bloom)

Alliance Machine Co., Alliance, O.
 Bethlehem Steel Co., South Bethlehem, Pa.
BLISS, E. W. CO., 19 Adams, B'klyn, New York. (See adv. index, end of book)
 Cleveland Punch & Shear Works, 156 Case av, Cleveland, O.
 Fischer Foundry & Machine Co., Pittsburg, Pa.
 Lewis Foundry & Machine Co., 1001 Bingham, Pittsburg, Pa.

Long & McAllstatter Co. (Belt, Motor or Steam Driven), Hamilton, O.
 Mackintosh, Hemphill & Co., Pittsburg, Pa.
 Mesta Machine Co., Lewis blk, Pittsburg, Pa.
 Morgan Construction Co., Worcester, Mass.
MORGAN ENGINEERING CO. (Duplex, Hydraulic & Electric), Alliance, O. (See adv. index, end of book)
 New-Doty Mfg. Co. (Heavy Motor Driven), Janesville, Wis.
 Phillips & McLaren, 24th & Smallman, Pittsburg, Pa.
 United Engineering & Foundry Co., Farmers' Bank bldg, Pittsburg, Pa.
 Williams, White & Co., Moline, Ill.
 Wood, R. D. & Co. (Hydraulic), 400 Chestnut, Phila., Pa.

Shears (Circle)

Badger State Machine Co., Janesville, Wis.
BLISS, E. W. CO., 19 Adams, B'klyn, New York. (See adv. index, end of book)
 Gould & Eberhardt, Newark, N. J.
NIAGARA MACHINE & TOOL WKS., Buffalo, N. Y. (See adv. index, end of book)
 Ohl, Geo. A. & Co. (for Metal), 157 Oraton, Newark, N. J.
 Peck, Stow & Wilcox Co., Southington, Conn.
PERKINS MACHINE CO. (Metal), Warren, Mass. (See adv. index, end of book)
 Ryerson, Jos. T. & Son (Hand & Power), 18 Milwaukee av., Chicago, Ill.
 Toledo Machine & Tool Co., Toledo, Ohio
 Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.
 West Mfg. Co., 374 7th, Buffalo, N. Y.

Shears (Clipping)

United Engineering & Foundry Co. (For Rolling Mills), Farmers' Bank bldg, Pittsburg, Pa.

Shears (Cotton Bale)

Draper Co., Hopedale, Mass.

Shears (Crocodile)

CANTON FOUNDRY & MACHINE CO. ("Universal"), Canton, O. (See adv. index, end of book)
 Danville Foundry & Machine Co., Danville, Pa.
 Evans, John Sons, 13th & Buttonwood, Phila., Pa.
 United Engineering & Foundry Co., Farmers' Bank bldg, Pittsburg, Pa.

Shears (Doubling Plate & Sheet Mill)

Aetna Foundry & Machine Co., Warreu, O.
 Fischer Foundry & Machine Co., Pittsburg, Pa.
 Hogg, Geo. A. Iron & Steel Foundry Co. (For Tin Mills, etc.), 24th & A. V. Ry., Pittsburg, Pa.
 Lewis Foundry & Machine Co., Pittsburg, Pa.
 Mesta Machine Co., Lewis blk, Pittsburg, Pa.
 Philadelphia Roll & Machine Co., 23d & Wash., Phila., Pa.
 Phillips & McLaren, 24th & Smallman, Pittsburg, Pa.
 Union Foundry & Machine Co., West Carson st, Pittsburg, Pa.
 United Engineering & Foundry Co., Farmers' Bank bldg, Pittsburg, Pa.
 Vulcan Foundry & Machine Co., New Castle, Pa.

*Shears for Heavy Boiler Plates, Etc.

BRAUN, J. G. & CO., 322 S. Paulina, Chicago, Ill., & 537 W. 35th, New York, N. Y. (See adv. index, end of book)
 Queen City Punch & Shear Co., 208 Lawrence, Cincinnati, O.

*Shears for Sheet Metal Work

BRAUN, J. G. & CO., 322 S Paulina, Chicago, Ill., & 537 W 35th, New York. (See adv. index, end of book)
HEARTLEY MACHINE, VARIETY IRON & TOOL WORKS, Toledo, O. (See adv. index, end of book)
 Queen City Punch & Shear Co., 208 Lawrence, Cincinnati, O.

Shears (Gate or Guillotine)

Alliance Machine Co., Alliance, O.
 Danville Foundry & Machine Co., Danville, Pa.
 Fischer Foundry & Machine Co., Pittsburg, Pa.
 Cincinnati Punch & Shear Co., 1416 Plum, Cincinnati, O.
 Long & Allstatter Co. (Gate Shears, Motor, Belt or Steam Driven & Double or Single Geared), Hamilton, O.
 United Engineering & Foundry Co., Farmers' Bank bldg, Pittsburg, Pa.
 Williams, White & Co., Moline, Ill.
 Wood, R. D. & Co., 400 Chestnut, Phila., Pa.

Shears (Grass)

(See Shears, Sheep, Grass, etc.)

Shears (Hand)

Bertsch & Co., Cambridge City, Ind.
 Eckstein, Charles G., (Sheet Iron), 249 Centre, N. Y.
 Kane & Roach, Syracuse, N. Y.
 Lewthwaite, T. H., 413 E. 31st, New York
 Marshall Son & Co., 226 Purchase, Boston, Mass.
NIAGARA MACHINE & TOOL WORKS (For Sheet Metal), Buffalo, N. Y. (See adv. index, end of book)
 Novelty Iron Works (G. E. Davis, Prop.), "Victor", Dubuque, Iowa
PERKINS MACHINE CO. (Metal), Warren, Mass. (See adv. index, end of book)
 Smith & Egge Mfg. Co. ("Eureka" for Cutting Wire, Rods & Strip Metal), Bridgeport, Conn.

Shears (Horse Clipping)

Clauss Shear Co. "Clouss", Fremont, O.
 Smith, J. Barton Co., N Norris & Hope, Phila., Pa.
 National Cutlery Co. ("National" Roaching), Westmoreland & Boudinot, Phila., Pa.
 Wilkinson Shear & Cutlery Co., Reading, Pa.
 Wiss, J. & Sons Co., Newark, N. J.

Shears (Hydraulic)

Alliance Machine Co., Alliance, O.
 Bertsch & Co., Cambridge City, Ind.
 Bethlehem Steel Co., South Bethlehem, Pa., & 100 B'way, New York
 Birdsboro Steel Foundry & Machine Co., Birdsboro, Pa.
 Fischer Foundry & Machine Co., Pittsburg, Pa.
 Hogg, Geo. A., Iron & Steel Foundry Co. (Upright, etc.), 24th & A. V. Ry., Pittsburg, Pennsylvania
 Maryland Steel Co., Sparrows Point, Baltimore, Md.
 Mesta Machine Co., Lewis blk. Pittsburg, Pa.
 Morgan Construction Co., Worcester, Mass.
MORGAN ENGINEERING CO., Alliance, O. (See adv. index, end of book)
 Niles-Bement-Pond Co., 111 B'way, New York
 Philadelphia Roll & Machine Co., S 23d & Washington av, Phila., Pa.
 Sellers, Wm. & Co., 1600 Hamilton, Philadelphia, Pa.
 Southwork Foundry & Machine Co., 5th & Washington av, Philadelphia, Pa.
 United Engineering & Foundry Co. (for Tin, Bar, Bloom, Slab, etc.), Farmers' Bank bldg, Pittsburg, Pa.
WATSON-STILLMAN CO., 26 Cortlandt, New York. (See adv. index, end of book)
 Wood, R. D. & Co. (Multiple Power Plate Shear), 400 Chestnut, Philadelphia Pa.
 Wood, Wm. H., Media, Pa.

Shears (Lever)

Badger State Machine Co., Janesville, Wis.
 Bertsch & Co., Cambridge City, Ind.
 Birmingham Iron Foundry, Derby, Conn.
 Carlin's, Thos. Sons ("Alligator"), 1300 River av, Allegheny, Pa.
 Crane, W. W. Foundry & Machine Works, Auburn, N. Y.
 Edwards, C. D., Albert Lea, Minn.
 Farrel Foundry & Machine Co., Ansonia, Conn.
 Fischer Foundry & Machine Co., Pittsburg, Pa.
 Fulton Iron Works ("Detroit" Compound Compound Lever), Detroit, Mich.
 Garrison, A. Foundry Co. ("Alligator" Heavy), Pittsburg, Pa.
 King & Walker Co., Madison, Wis.

HEARTLEY MACHINE, VARIETY IRON & TOOL WORKS (Hand Lever), Toledo, O. (See adv. index, end of book)
 Lewthwaite, T. H., 413 E 31st, New York
 National Machinery Co., Tiffin, O.

NIAGARA MACHINE & TOOL WORKS, Buffalo, N. Y. (See adv. index, end of book)

Pawtucket Mfg. Co., Pawtucket, R. I.
 Peck, Stow & Wilcox Co., Southington, Conn.
 Philadelphia Roll & Machine Co. (For Scrap & Old Boiler Shells, etc.), S 23d & Wash'n av, Phila., Pa.
 Pittsburg Iron Works, Westinghouse bldg., Pittsburg, Pa.
 Robinson, J. M. Mfg. Co. (Slitting), 2d & Central av, Cincinnati, O.
 United Engineering & Foundry Co. (For Rolling Mills), Farmers' Bank bldg, Pittsburg, Pa.
 Vulcan Foundry & Machine Co. (Rolling Mill), Newcastle, Pa.
 Waterbury Farrel Foundry & Machine Co.
 Way-Walker Tool Co., Lansing, Mich.
 Williams, White & Co., Moline, Ill.

Shears (Paper Box Makers')

Beck, Chas. Paper Co. (Ltd.), 607 Chestnut, Phila., Pa.

Shears (Paper Hangers')

Clauss Shear Co. ("Clauss"), Fremont, O.
 National Cutlery Co., Westmoreland & Boudinot, Phila., Pa.
 Schatt & Morgan Cutlery Co., Titusville, Pa.
 Stortz, Jno. & Son, 210 Vine, Phila., Pa.
 Wiss, J. & Sons Co., Newark, N. J.

Shears (Plate Splitting)

(See Shears, Splitting or Plate.)

Shears (Power)

Alliance Machine Co., Alliance, O.
 Badger State Machine Co., Janesville, Wis.
 Bertsch & Co., Cambridge City, Ind.
BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)
 Bremer Machine & Tool Co. (Also Hand), Kalamazoo, Mich.
 Cincinnati Punch & Shear Co., 1416 Plum, Cincinnati, O.
 Fischer Foundry & Machine Co., Pittsburg, Pa.
 Gowanda Agricultural Works (for Cutting Sheet Steel, 20-24 inch), Gowanda, N. Y.
HEARTLEY MACHINE, VARIETY IRON & TOOL WORKS, Toledo, O. (See adv. index, end of book)
 King & Walker Co., Madison, Wis.
 Mackintosh-Hemphill & Co., ft of 12th, Pittsburg, Pa.
MORGAN ENGINEERING CO., Alliance, O. (See adv. index, end of book)
 New Doty Mfg. Co., Jamesville, Wis.
NIAGARA MACHINE & TOOL WKS., Buffalo, N. Y. (See adv. index, end of book)
 Niles-Bement-Pond Co., 111 B'way, New York
 Pels, Henry & Co. (John's Patent), 66 Broad Poorman, O. O. Co., Dayton, O.
 Queen City Punch & Shear Co., 280 Lawrence, Cincinnati, O.
 Royersford Foundry & Machine Co., Royersford, Pa.
 Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Philadelphia, Pa.
 Standard Machinery Co., Providence, R. I.
 Sutton, C. E. Co., Toledo, O.
 Toledo Machine & Tool Co., Toledo, O.
 United Engineering & Foundry Co., Farmers' Bank bldg, Pittsburg, Pa.
 Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.
WATSON-STILLMAN CO., 26 Cortlandt, New York. (See adv. index end of book)
 Williams, White & Co., Moline, Ill.

Shears (Pruning)

Carver Tool Works, "Carver's," Spring Valley, N. Y.
 Clauss Shear Co. ("Clauss Buckeye"), Fremont, O.
 Clipper Shear Co., Clyde, O.
 Cronk & Carrier Mfg. Co., Elmira, N. Y.
 Clyde Cutlery Co. (Hedge, etc.), Clyde, O.
 Davy Spring Seat Co. (Duesler), Mohawk, N. Y.
 Denison Mfg. Co. ("Denison"), Warren, O.
 Eichelman, C. W., Rochester, N. Y.
 Elyria Variety Works, Jackson, Mich.
 Field Force Pump Co. (The Niagara & Henry) Elmira, N. Y.

Henry, John T. Mfg. Co., Hamden, Conn.
 Henry & Allen (Pruning Knives), Auburn, N. Y.
 International Cutlery Co. ("New Buckeye"),
 Fremont, O.
 Little Giant Mfg. Co., Saugatuck, Mich.
 Nagley Mfg. Co. (Diamond), Lyons, N. Y.
 Ney, V. L. Co., Canton, O.
 Oshkosh Logging Tool Co., Oshkosh, Wis.
 Smith, Seymour & Son (Royal, Concord, Taylor,
 Levin, Ideal, California, Rockdale &
 Standard), Oakville, Conn.
 Wilkinson Shear & Cutlery Co., Reading, Pa.
 Wiss, J. & Sons Co. (Solid Steel), Newark,
 N. J.

Shears (Rotary)

Badger State Machine Co., Janesville, Wis.
BETHLEHEM FOUNDRY & MACHINE CO.
 Front, South Bethlehem, Pa., & 149
 B'way, New York. (See adv. index, end
 of book)
BLISS, E. W. CO., 19 Adams, Brooklyn,
 New York. (See adv. index, end of book)
 Detrick & Harvey Mach. Co. (Slitting), Balti-
 more, Md.
 Ham, L. M. & Co., 152 Portland, Boston, Mass.
HEARTLEY MACHINE, VARIETY IRON &
 Tool Works, Toledo, O. (See adv. index,
 end of book)
 Hilles & Jones Co., 900 Church, Wilmington,
 Del.
 Lennox Machine Co. (Beveling & Splitting),
 Marshalltown, Ia.
 Michigan Machinery Mfg. Co. ("Michigan"),
 Ypsilanti, Mich.
 Newbold, R. S. & Son Co., Norristown, Pa.
NIAGARA MACHINE & TOOL WORKS,
 Buffalo, N. Y. (See adv. index, end of
 book)
 Ohl, Geo. A. & Co. (Slitting), 157 Oraton,
 Newark, N. J.
 Peck, Stow & Wilcox Co., Southington, Conn.
PERKINS MACHINE CO., Warren, Mass.
 (See adv. index, end of book)
 Ryerson, Jos. T. & Son ("Lennox"), 18 Mil-
 waukee av., Chicago, Ill.
 Standard Machinery Co., Providence, R. I.
 Toledo Machine & Tool Co., Toledo, O.
 Waterbury Farrel Foundry & Machine Co.,
 Waterbury, Conn.
 Whiting, Geo. Co., 156 W North av., Chicago,
 Ill.

Shears (Rotary Circle)

PERKINS MACHINE CO., Warren, Mass.
 (See adv. index, end of book)
 Waterbury Farrel Foundry & Machine Co.,
 Waterbury, Conn.

Shears (Rotary, Pipe Cutting)

Fischer Foundry & Machine Co., Pittsburgh,
 Pa.
 Newbold, R. S. & Son Co., Norristown, Pa.
 Ryerson, Jos. T. & Son ("Lennox Rotary
 Throat"), 18 Milwaukee av., Chicago, Ill.
 United Engineering & Foundry Co., Farmers'
 Bank bldg., Pittsburgh, Pa.

Shears (Rotary Slitting)

BLISS, E. W. CO., 19 Adams, Brooklyn,
 N. Y. (See adv. index, end of book)
 Detrick & Harvey Mach. Co., Baltimore, Md.
 Lenox Machine Co., Marshalltown, Iowa
NIAGARA MACHINE & TOOL CO., Buf-
 falo, N. Y. (See adv. index, end of book)
OHL, GEO. A. & CO., 157 Oraton, Newark,
 N. J. (See adv. index, end of book)
 Standard Mach'y Co., Providence, R. I.
 Toledo Machine & Tool Co., Toledo, O.
 Waterbury Machine Co., Waterbury, Conn.
 Waterbury Farrel Foundry & Machine Co.,
 Waterbury, Conn.

Shears (Scrap)

Carlin's, Thos. Sons Co., 1300 River av., Alle-
 gheny, Pa.
 Fischer Foundry & Machine Co., Pittsburgh, Pa.
 Hogg, Geo. A., Iron & Steel Foundry Co.
 (Heavy), 24th & A. V. Ry., Pittsburgh, Pa.
 United Engineering & Foundry Co., Farmers'
 Bank bldg., Pittsburgh, Pa.

Shears (Sheep, Grass Lawn & Hedge)

Diamond Shear Co., Wilmington, Del.
 Dunn Edge Tool Co., Oakland, Me.
 Gay, Geo. E. ("Uncle Sam"), Augusta, Me.
 Gowanda Agricultural Works (Dog or Sheep),
 Gowanda, N. Y.
 Keiser Mfg. Co., Reading, Pa.
 Knickerbocker Hardware Co., 299 B'way, New
 York. Works: Newark, N. J.
 Smith, J. Barton Co., Norris & Hope, Phila.,
 Pa.
 Wilkinson Shear & Cutlery Co., Reading, Pa.

Shears (Slitting)

Badger State Machine Co., Janesville, Wis.
 Bertsch & Co., Cambridge City, Ind.
 Birdsboro Steel Foundry & Machine Co.,
 Birdsboro, Pa.
BLISS, E. W. CO., 19 Adams, Brooklyn,
 N. Y. (See adv. index, end of book)
CLEVELAND PUNCH & SHEAR WORKS
 Co., 1306 E 40th, Cleveland, O. (See adv.
 index, end of book)
 Detrick & Harvey Machine Co. (Rotary), Balti-
 more, Md.
 Fischer Foundry & Machine Co., Pittsburgh, Pa.
HEARTLEY MACHINE, VARIETY IRON &
 Tool Works, Toledo, O. (See adv. index,
 end of book)
 Keene, Geo. C. & Co., 2327 Montgomery rd.,
 Cincinnati, O.
 Kidder, J. F. Mfg. Co. ("Little Blacksmith"),
 Burlington, Vt.
 Lewis Foundry & Machine Co., Pittsburgh, Pa.
 Mersick, C. S. & Co. (Compound Lever &
 Pinion), New Haven, Conn.
 Michigan Machinery Mfg. Co. (Gang Slitters),
 Ypsilanti, Mich.
NIAGARA MACHINE & TOOL
 Works (Hand Slitting), Buffalo, N. Y. (See
 adv. index, end of book)
 Ohl, Geo. A. & Co. (also Rotary Slitting), 157
 Oraton, Newark, N. J.
 Pawtucket Mfg. Co., (52-inch), Pawtucket, R. I.
PERKINS MACHINE CO., Warren, Mass.
 (See adv. index, end of book)
 St. Louis Machine Tool Co., 1114 S 8th, St.
 Louis, Mo.
 Union Foundry & Machinery Co., W Carson st.,
 Pittsburgh, Pa.
 United Engineering & Foundry Co., Farmers'
 Bank bldg., Pittsburgh, Pa.
 Whiting, Geo. Co., 156 W. North av., Chicago
 Ill.

Shears (Splitting or Plate)

Alliance Machine Co., Alliance, O.
CLEVELAND PUNCH & SHEAR WORKS
 Co., 1306 E 40th, Cleveland, O. (See adv.
 index, end of book)
 Fischer Foundry & Machine Co., Pittsburgh, Pa.
 Bertsch & Co. ("Universal"), Cambridge City,
 Ind.
 Long & Allstatter Co. (Steam, Belt or Motor
 Driven), Hamilton, O.
NIAGARA MACHINE & TOOL WORKS,
 Buffalo, N. Y. (See adv. index, end of book)
 Rock River Machine Co. (Steel Splitting
 Shears), Janesville, Wis.
 Ryerson, Jos. T. & Son ("Lennox" Rotary), 18
 Milwaukee av., Chicago, Ill.
 United Engineering & Foundry Co., Farmers'
 Bank bldg., Pittsburgh, Pa.
 Williams, White & Co., Moline, Ill.
 Wood, R. D. & Co. (Hydraulic), 400 Chestnut,
 Philadelphia, Pa.

Shears (Squaring)

Aetna Foundry & Machine Co. (For Tin &
 Sheet Mills), Warren, O.
 Ams, Max Machine Co. (Can Makers, etc.),
 Mt. Vernon, N. Y.
 Ayars Machine Co. (For Can Making, etc.),
 Salem, N. J.
 Badger State Machine Co., Janesville, Wis.
 Bertsch & Co., Cambridge, Ind.
BLISS, E. W. CO., 19 Adams, Brooklyn,
 N. Y. (See adv. index, end of book.)
 Crosby, G. A. & Co., 176 S Clinton, Chicago
 Ill.
 Excelsior Tool Machine Co. (Exclusive'
 Double Geared), East St. Louis, Ill.
 Fischer Foundry & Machine Co., Pittsburgh, Pa.
HEARTLEY MACHINE, VARIETY IRON
 & Tool Works, Toledo, O. (See adv. index,
 end of book)

Hibbard, Wm. H. Mfg. Co., 79 Washington,
 Brooklyn, N. Y.
 Johnson, Israel H., Jr., Co., Phila., Pa.
 Lewis Foundry & Machine Co., 1001 Bingham,
 Pittsburg, Pa.
 Mesta Machine Co., Lewis blk, Pittsburg, Pa.
 Michigan Machinery Mfg. Co. ("Michigan"),
 Ypsilanti, Mich.
MORGAN ENGINEERING CO., Al-
 liance, O. (See adv. index, end of book)
 Phila., Pa.
 New Doty Mfg. Co., Zanesville, Wis.
NIAGARA MACHINE & TOOL
 Works, Buffalo, N. Y. (See adv. index,
 end of book)
 Ohl, Geo. A. & Co. (Heavy & Light), 157
 Oraton, Newark, N. J.
 Peck, Stow & Wilcox Co. (for Sheet Metal),
 Southington, Conn.
PERKINS MACHINE CO. (Metal Squaring
 & Circle), Warren, Mass. (See adv. in-
 dex, end of book)
 Phillips & McLaren, 24th & Smallman, Pitts-
 burg, Pa.
 Poorman, O. O. Co. (Power), Dayton, Ohio
 Toledo Machine & Tool Co., Toledo, O.
 Union Foundry & Machine Co., W Carson st.,
 Pittsburg, Pa.
 United Engineering & Foundry Co. (For Tin
 Plate & Rolling Mills), Farmers' Bank
 bldg., Pittsburg, Pa.
 Vulcan Foundry & Machine Co., New Castle
 Pa.
 Waterbury Farrel Foundry & Machine Co.,
 Waterbury, Conn.
 Whiting, Geo. Co., 156 W. North av., Chi-
 cago, Ill.

Shears (Tobacco)

Nagley Mfg. Co. (Cutting Tobacco in the
 Field), Lyons, N. Y.

Shears (Vertical)

National Machinery Co., Tiffin, O.
 United Engineering & Foundry Co. (For Roll-
 ing Mills), Pittsburg, Pa.

Shears (Wire Rod, Etc.)

Smith & Egge Mfg. Co. (Eureka), Bridgeport,
 Conn. & 62 Reade, N. Y.

Shears & Punches (Beam)

CLEVELAND PUNCH & SHEAR WORKS
 Co., 1306 E 40th, Cleveland, O. (See adv.
 index, end of book)
 Pels, Henry & Co., 66 Broad, New York

Shears & Punches (Combined)

Badger State Machine Co., Janesville, Wis.
 Hibbard, Wm. H. Mfg. Co., 79 Washington,
 Brooklyn, N. Y.

Shears & Scissors

Acme Shear Co., Bridgeport, Conn.
 American Shear & Knife Co., "Shears," Hotch-
 kissville, Conn.
 Bridgeport Hdw. Mfg. Co., Bridgeport, Conn.
 Clauss Shear Co. (Clauss), Fremont, O.
 Diamond Shear Co., Wilmington, Del.
 Heinisch's, S. R. Sons Co., Newark, N. J.
 International Cutlery Co., Fremont, O.
 Mallinson, J. Shear Co., West Cornwall, Conn.
 National Cutlery Co. (National), Westmore-
 land & Boudinot, Philadelphia, Pa.
 Schatt & Morgan Cutlery Co., Titusville, Pa.

Sheave or Pulley Filling (Rubber)

Goodrich, B. F. Co., Akron, O.
 Morgan & Wright (Inc.), 226 Jefferson av.,
 Detroit, Mich.

Sheave Wheels & Frames

Lanz, M. & Sons, Carson & 29th, Pittsburg,
 Pa.

Sheaves (Ball Bearing Show Case)

Gardner-Champlain Co., 146 Dearborn, Chicago,
 Ill.
 Johnston & Sharpe Mfg. Co., Ottumwa, Ia.

Sheaves (Door)

Brewer Bros. (Anti-Friction Run), 614 Filbert, Phila., Pa.
Corbin Cabinet Lock Co. (Cast Brass Sliding Door Sheave & Roll), New Britain, Conn.
GRANT PULLEY & HARDWARE CO. ("Grant" Noiseless), 35 Warren, N. Y. (See adv. index, end of book.)
Kupferle, John C. (Also Sliding Door), c 2d & Mound, St. Louis, Mo.
Nicol & Co., 57 W. Wash'n, Chicago, Ill.
Peck, Stow & Wilcox Co., Southington, Conn.
Penn Hardware Co., Reading, Pa.
Reading Hardware Co., Reading, Pa.
Russell & Erwin Mfg. Co., New Britain, Conn.
Sargent & Co., New Haven, Conn., & 94 Center, N. Y.
Stowell Mfg. & Foundry Co., S. Milwaukee, Wis.
Wrightsville Hrw. Co. (also Sliding Door), Wrightsville, Pa.

*Sheaves (Door, "Grant" Noiseless)

GRANT PULLEY & HARDWARE CO. 35 Warren, New York. (See adv. index, end of book.)

*Sheaves (Lignumvitae Wood)

McMILLAN'S, W. H. SONS, 153 South, New York. (See adv. index, end of book)

*Sheaves (Pressed Metal)

AMERICAN PULLEY CO., 29th c. Bristol, Philadelphia, Pa. (See adv. index, end of book.)

Sheaves (Shutter)

Peck, Stow & Wilcox Co., Southington, Conn.
Reading Hardware Co., Reading, Pa.
Russell & Erwin Mfg. Co., New Britain, Conn., & 43 Chambers, New York
Sargent & Co., New Haven, Conn., & 94 Center, New York

Sheaves (Tackle Block)

(See also Blocks, Tackle.)

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)
Boston & Lockport Block Co., 160 Commercial, Boston, Mass.

CARPENTER, GEO. B. & CO., 202 S Water, Chicago, Ill. (See adv. index, end of book)

Cleveland Block Co., 163 River, Cleveland, O.
Contractors' Plant Mfg. Co., 129 Erie, Buffalo, N. Y.

Dubuar, J. A. Mfg. Co., Northville, Mich.
Laughlin, Thos. Co., Portland Me.
Marine Hardware & Equipment Co., South Portland, Me.

OIL WELL SUPPLY CO., 215 Water, Pittsburg, Pa. (See adv. index, end of book)

Unlon Hardware Co., Torrington, Conn.
Wilcox, Crittenden & Co. (Ball Bearings, etc.), Middletown, Conn.

Sheaves (Wire & Manilla Rope)

(See also Machinery, Power Transmitting.)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)
Bellwood Mfg. Co. (Rope), Bellwood, Pa.
Boston & Lockport Block Co. (Rope), 160 Commercial, Boston, Mass.

BROWN, A. & F. CO., 25 Dey, New York. Works, Elizabethport, N. J. (See adv. index, end of book.)

CALDWELL, W. E. CO., Brook & D, Louisville, Ky. (See adv. index, end of book.)
Contractors' Plant Mfg. Co., 129 Erie, Buffalo, N. Y.

Crawford & McCrimmon Co. (Wrought Iron Spoke, Rope Sheaves Only), Brazil, Ind.
Cresson, Geo. V. Co., Allegheny av, W of 17th, Phila., Pa.

Davis, R. M., Iron Works Co., 8th & Larimer, Denver, Colo.

DODGE MFG. CO., Mishawaka, Ind. (See adv. index & branch offices, end of book)
Exeter Machine Works, Pittston, Pa.

Falls River & Machine Co., Cuyahoga Falls, O.
Great Western Mfg. Co., Leavenworth, Kan.
Gustafson Mfg. Co., Chattanooga, Tenn.

Helmick Foundry & Machine Co. (Chilled Curve Wire Rope Only), Fairmont, W. Va.
Hill Clutch Co., ft. 58th, N. W., Cleveland, O.

Jones, W. A. Foundry & Machine Co., 143 W North av, Chicago, Ill.
Lake Shore Engine Works, Marquette, Mich.

Link Belt Co., W. 39th & Stewart av., Chicago, Ill., & 299 B'way, New York
McMILLAN'S, W. H. SONS (Iron), 153 South, New York. (See adv. index, end of book)

MACOMBER & WHYTE ROPE CO., 21 S Canal, Chicago, Ill., & 126 Centre, New York. (See adv. index & branch offices, end of book)

Marseilles Mfg. Co., Marseilles, Ill.
MEAD-MORRISON MFG. CO., Cambridge, Mass. & 11 B'way, New York. (See adv. index & branch offices, end of book.)

Medart Patent Pulley Co., 3500 De Kalb av., St. Louis, Mo.

Mine & Smelter Supply Co., Denver, Colo., & 43 B'way, New York
MINNEAPOLIS STEEL & MACHINE Co., Minneapolis, Minn. (See adv. index & branch offices, end of book)

Nordyke & Marmon Co., Indianapolis, Ind.
OIL WELL SUPPLY CO., 215 Water, Pittsburg, Pa. (See adv. index, end of book)

Poole Engineering & Machine Co., Woodberry Station, Baltimore, Md.

Portland Co. (Rope & Power Transmitting), Portland, Me.
Robinson Machine Co., Monongahela, Pa.

Skillin & Richards Mfg. Co. (Rope), 127 Fulton, Chicago
TERRY & TENCH CO. (Inc.), Lexington av & 131 st, New York. (See adv. index, end of book)

Trenton Iron Co., Trenton, N. J., & 17 Burling Slip, New York
Union Foundry & Machine Co., Pittsburg, Pa.

Vulcan Iron Works, Wilkes-Barre, Pa.
Webster Mfg. Co., 1075 W 15th, Chicago, Ill.

Western Block Co. (Rope), Lockport, N. Y.
Wood's, T. B. Sons, Chambersburg, Pa.

***Sheaves with Graphite Bronze or Metaline Bronze**

McMILLAN'S, W. H. SONS, 153 South, New York. (See adv. index, end of book)

***Sheaves with Roller Bushes**

McMILLAN'S, W. H. SONS, 153 South, New York. (See adv. index, end of book)

Sheaves (Wood Split)

(See Pulleys, Wood Split.)

Shedders (Fodder)

Appleton Mfg. Co., Batavia, Ill.
Dick, Jos. Agricultural Works, Canton, O.
Keystone Mfg. Co., Sterling, Ill.
Silver Mfg. Co. ("New Ohio"), Salem, O.

Sheet Brass & Copper

(See Copper & Brass Sheet.)

Sheet Metal Borders & Friezes

Broschart & Braun, 601 W 130th, N. Y.
EDWARDS MFG. CO., Eggleston av., 4th & 5th, Cincinnati, O. (See adv. index & branch offices, end of book)

Frond, Martin J. & Co., 112 Arch, Camden, N. J.
FRIEDLEY-VOSHARDT CO. (Inc.), 194 Mather, Chicago, Ill. (See adv. index, end of book)

Gerock Bros. Mfg. Co., 1250 Manchester av., St. Louis, Mo.
Hergert, Theo. E., 384 2d av., New York, N. Y.

Kelley, Wm. J., 448 Adelphi, Brooklyn, N. Y.
Miller & Doing, 83 Wash'n, Brooklyn, N. Y.

MILWAUKEE CORRUGATING CO., Milwaukee, Wis. (See adv. index, end of book)

MULLINS, W. H. CO., Salem, O. (See adv. index, end of book)

Pruden, C. D. Co., Builders' Exchange, Baltimore, Md.
Solosth, L. H. & Sons, Grand Rapids, Mich.
Thoresen, Wm., 816 N Western av., Chicago

Sheet Metal Goods Mfrs.

EDWARDS MFG. CO. (To Order), Eggleston av., 4th & 5th, Cincinnati, Ohio. (See adv. index & branch offices, end of book)

Jenkinson, R. C. & Co. (By Automatic Machines, Newark, N. J.)
Knoburn Co., 27 E. 22d, New York City

Parker, Jno. L. & Co. (Seamless), Worcester, Mass.
Special Machinery Co., Bridgeport, Conn.

Sheet Metal Statuary

EDWARDS MFG. CO., Eggleston av., 4th & 5th, Cincinnati, O. (See adv. index & branch offices, end of book)

FRIEDLEY-VOSHARDT CO. (Inc.), 194 Mather, Chicago, Ill. (See adv. index, end of book)

Gerock Bros. Mfg. Co., 1252 Manchester av., St. Louis, Mo.
Hergert, Theo. E., 384 2d av., New York, N. Y.

Kelley, Wm. J., 448 Adelphi, Brooklyn, N. Y.
Mesker Bros., 421 S. 6th, St. Louis, Mo.

Miller & Doing, 83 Wash'n, Brooklyn, N. Y.
MULLINS, W. H. CO., Salem, O. (See adv. index, end of book)

Seelig, M. J. & Co. (Zinc), 115 Maujer, Brooklyn, N. Y.

*Sheet Metal & Strip Stock Straighteners & Cutters (Automatic)

SHUSTER, F. B. CO., New Haven, Conn. (See adv. index, end of book)

Sheet Metal Workers' Machines & Tools

(See Sheet Metal Workers, Machines & Tools, in Machinery.)

Sheets (Aluminum)

Aluminum Co. of America, Pittsburg, Pa.

Sheets (German Silver)

Benedict & Burnham Mfg. Co., Waterbury, Conn.

Bridgeport Brass Co., Bridgeport, Conn.
Chicago Brass Co., Kenosha, Wis.

Detroit Copper & Brass Rolling Mills, Detroit, Mich.
Riverside Metal Co., Riverside, N. J.

Scovill Mfg. Co., Waterbury, Conn.
Seymour Mfg. Co., Seymour, Conn.
Waterbury Brass Co., Waterbury, Conn.

Shellac Gum

BERRY BROS., Limited (Bleached), Main Office & Factory, Detroit, Mich. (See adv. index & branch offices, end of book)

Feigel, M. & Bro. (Bleached, Varnish, etc.), 147 Wooster, New York

Hoople & Nichols, 250 Front, New York.
New York Shellac Co., 229 Pearl, New York.

Rogers & Pyatt, 129 Front, New York
Zinser, Wm. & Co. (Bleached & Refined), 197 William, New York

Shellers (Corn)

Adams, W. J. (Hand), Joliet, Ill.
Aermotor Co., Campbell av., nr 12th, Chicago, Ill.

Ames Plow Co., Quincy Hall, Boston, Mass.
Appletor Mfg. Co., Batavia, Ill.

BARLETT, C. O. & SNOW CO., Cleveland, O. (See adv. index, end of book)
Barnard & Leas Mfg. Co. ("Victor"), Moline, Ill.

Batavia Windmill Co., Batavia, Ill.
Belcher & Taylor Agl. Tool Co., Chicopee Falls, Ill.
Billups, Son & Co., Norfolk, Va.

Brinley-Hardy Co. ("Red Chief"), Louisville, Ky.
 Bristol & Gaie Co., 110 Wash'n boul, Chicago
 Brown, Geo. W. & Co., Galesburg, Ill.
 Buch's, A. Sons Co., Elizabethtown, Pa.
 Butler Co., Butler, Ind.
 Butterfield & Co., Derby Line, Vt.
 Challenge Co., Batavia, Ill.
 Deats, Hiram, Jr., Pittston, N. J.
 Deert & Mansur Co. (Power & Hand), Mo-
 Dickey Mfg. Co., Racine, Wis. line, Ill.)
 Donaldson Bros., Mt. Clemens, Mich.
 Dunham, J. W. & Son, Berea, O.
 Eagle Machine Co., Lancaster, O.
 Eigin Wind, Power & Pump Co., Eigin, Ill.
 Ellis Keystone Agricultural Works ("Can-
 non" Sheiler & Cleaner, with Bagger,
 etc.; also "Pottstown" & Double Sheiler),
 Pottstown, Pa.
 Farquhar, A. B. Co., York, Pa.
 Flour Mill Machinery Co., "Challenge," Bat-
 tle Creek, Mich.
 Foos Mfg. Co., Springfield, O.
 Freeman, S. & Sons Mfg. Co. (Hand, etc.), Ra-
 cline, Wis.
 Genesee Valley Mfg. Co. (Hand & Power), Mount
 Morris, N. Y.
 Gould's Mfg. Co., Seneca Falls, N. Y.
 Great Western Mfg. Co., Leavenworth, Kan.
 Grier, Geo. S., Milford, Del.
 Haish Mfg. Co., De Kalb, Ill.
 Hensch & Dromgold Co., Inc., York, Pa.
 Hocking Valley Mfg. Co., Lancaster, O.
 Howell, R. R. & Co., Minneapolis, Minn.
 Hutchison, Jno. Mfg. Co., Jackson, Mich.
 Huntley Mfg. Co., Silver Creek, N. Y.
 International Harvester Co. of America, 7
 Monroe, Chicago, Ill., and Auburn, N. Y.
 Joliet Mfg. Co., Joliet, Ill.
 Kansas City Hay Press Co. (Hand Cylinder &
 Spring Belt), Kansas City, Mo.
 Keystone Farm Machine Co., York, Pa.
 Keystone Mfg. Co. (Power & Hand), Sterling,
 King & Hamilton Co., Ottawa, Ill. Ill.
 Klingman & Co., Peoria, Ill.
 Klingsland Mfg. Co., St. Louis, Mo.
 Klotz Machine Co., Sandusky, O.
 Lehr Agricultural Co., Fremont, O.
 Litchfield Mfg. Co., Webster City, Iowa.
 Logan & Strobbridge Iron Co. (Hand), New Brigh-
 ton, Pa.
 Luthy & Co., Peoria, Ill.
 McGrath, R. H. (for Warehouse), Lafayette, Ind.
 McSherry Mfg. Co., Middletown, O.
 Mann, F. W. Co. (Ball Bearing), Milford, Mass.
 Marcy, R. G. Mfg. Co., Bluffton, Ind.
 Marseilles Mfg. Co. (Cyclone Spring, Power &
 Hand), Marseilles, Ill.
 Messinger Mfg. Co. (Power & Hand), Tatamy,
 Pa.
 Minneapolis Threshing Machine Co., Minneapolis,
 Mountville Mfg. Co., Mountville, Pa. Minn.
 New Winona Mfg. Co. ("Crescent A. A."),
 Self Feed Sheller with Cob-Stacker & Ele-
 vator), Winona, Minn.
 Nordyke & Marmon Co. (Hand & Power), Indi-
 anapolis, Ind.
 Noye Mfg. Co., Buffalo, N. Y.
 Ohio Rake Co., Dayton, O.
 Patch, A. H. ("Black Hawk" Hand), Clarks-
 Penna. Electric Co., Marietta, Pa. ville, Tenn.
 Port Huron Engine & Thresher Co. (Power
 Sheilers), Port Huron, Mich.
 Richmond City Mill Works, Richmond, Ind.
 Rock River Machine Co. (Hand), Janesville,
 Root Bros. Co., Plymouth, O. Wis.
 Rogers Iron Co., Springfield, O.
RUMSEY & CO., Ltd. ("Burrells" sheller &
 separator), Seneca Falls, N. Y. (See adv.
 index & branch offices, end of book)
 Salem Iron Works, Salem, N. C.
 Sandwich Mfg. Co. (Horse & Steam Power &
 Centrifugal), Sandwich, Ill.
 Schrieber & Couchar Mfg. Co., Dubuque, Ia.
 Silberzahn Mfg. Co. (Hand), West Bend, Wis.
 Smalley Mfg. Co., Manitowoc, Wis.
 Southern Foundry & Machine Works, Freder-
 icksburg, Va.
 Spangler Mfg. Co., York, Pa.
 Sprout, Waldron & Co. (The "Monarch")
 Muncy, Pa.
 Standard Harrow Co., Utica, N. Y.
 Star Mfg. Co., Carpentersville, Ill.
 Stevens, A. W. Co. (Power), Marietta, Wis.
 Stevens Mfg. Co., Joliet, Ill.
 Stover Mfg. Co., Freeport, Ill.
 Streeter, Hiram R. Grand Ledge, Mich.
 Tait, F. B. Mfg. Co., Decatur, Ill.
 Tiffin Wagon Co., Tiffin, O.
 Union Iron Works (Power), Decatur, Ill.
 U. S. Engine & Pump Co., Batavia, Ill.
 White, S. R. & Bro., Norfolk, Va.
 Whitehurst, R. W. Co., Norfolk, Va.
 Whitman Agricultural Co., 6900 S B'way, St.
 Louis, Mo.
 Whitman & Barnes Mfg. Co., Akron, O.

*Shells (Brass)

AMERICAN WELL WORKS, Aurora,
 Ill. (See adv. index & branch offices, end of
 book)
WORCESTER PRESSED STEEL CO., Wor-
 cester, Mass. (See adv. index, end of
 book)

*Shells (Coke Oven)

PETROLEUM IRON WORKS CO.,
 Washington, Pa., & Farmers' Bank bldg.
 Pittsburg, Pa. (See adv. index, end of
 book)

*Shells (Seamless Steel)

(See also Cylinders & Shells, Seamless Pressed
 Steel.)

WORCESTER PRESSED STEEL CO., Wor-
 cester, Mass. (See adv. index, end of
 book)

Shelving (Glass Front, Sectional)

Warren, J. D. Mfg. Co., Masonic Temple, Chi-
 cago, Ill.

Shelving (Shop)

Davis Mfg. Co., Milwaukee, Wis.
 New Britain Machine Co., New Britain, Conn.

*Shelving (Steel)

BERGER MFG. CO. (Plain & Roller),
 Main Office & Works, Canton, O. (See adv.
 index & branch offices, end of book)
MERRITT & CO., 1024 Ridge av., Phila.,
 Pa. (See adv. index, end of book)
LYON METALLIC MFG. CO. (for all
 Purposes), Aurora, Ill. (See adv. index, end
 of book)

Shields (Gear)

Avery Stamping Co. ("Never-Break"), Lake
 & Coe, Cleveland, O.

Shields (Water Gauge & Lubri- cator)

Boyer Safety Device & Equipm't Co. ("Mears"),
 Kansas City, Mo.

Shims (Pole)

Lanz, M. & Sons, Carson & 29th, Pittsburg,
 Pa.

Shingle Mill Machinery

(See Machinery, Shingle Mill.)

Shingle Stains

Adams & Elting Co. (Asbestine), 155 W. Wash-
 ington, Chicago

ATLAS PAINT CO., 2638 Liberty av.,
 Pittsburg, Pa. (See adv. index, end of
 book)

BERRY BROS., Limited (Singletint), Main
 Office & Factory, Detroit, Mich. (See
 adv. index & branch offices, end of book)

Connors, Wm. Paint Co., Troy, N. Y.

CABOT, SAMUEL, 141 Milk, Boston,
 Mass., & 28 Dearborn av., Chicago, Ill.
 (See adv. index & branch offices, end of
 book)

Dexter Bros. Co., 103 Broad, Boston, Mass.

GROSCH, BRUNO & CO., 30 Old Slip,
 New York. (See adv. index, end of book)

Johns, H. W.-Manville Co., 100 William, New
 York

Menzel, Wm. & Son, 68 Broad, New York

Moore, Benj. & Co., 262 Water, Brooklyn,
 N. Y.

Parker, Preston & Co. (Inc.), (Waterproof &
 Odorless), Norwich, Conn.

Sherwin-Williams Co., 104 Canal, Cleveland, O.

Spiritine Chemical Co. (Spirittine Creosote),
 Wilmington, Del.

Vilas Bros. (Impervious), 227 5th av., Chicago,
 Ill.
 Wilhelm, A. Co. ("Fernoleum"), Reading, Pa.

*Shingle Stains (Creosote)

CABOT, SAMUEL, 141 Milk, Boston,
 Mass., & 28 Dearborn av., Chicago,
 (See adv. index & branch offices, end
 of book)

Shingles (Asbestos)

Asbestos Shingle, Slate & Sheathing Co.
 ("Century"), Ambler, Pa.

Keasbey & Mattison Co. ("Century"), Ambler,
 Pa.

Shingles (California Redwood)

(See also Lumber Mfrs.)

Loveren, J. G. (Plain & Fancy), Eureka, Cal.
 Minneapolis Cedar & Lumber Co. (Red &
 White Cedar), Lumber Ex., Minneapolis,
 Minn.

Star Shingle Co., Spokane, Wash.

Shingles (Cedar)

Seattle Cedar Lbr. Mfg. Co. ("Maltese Cross"
 Brand), Seattle, Wash.

Shingles (Cement)

Diamond Cement Machine Co., Deshler, O.

Shingles (Cypress)

(See also Lumber Mfrs.)

CYPRESS LUMBER CO., 88 Broad, Boston
 Mass., & Apalachicola, Fla. (See adv.
 index, end of book)

Cypress Selling Co., Ltd. (Red Cypress, etc.,
 New Orleans, La.)

STEARNS, A. T. LUMBER CO., Neponse
 Boston, Mass. (See adv. index, end of
 book)

*Shingles (Flat Terra Cotta)

LUDOWICI-CELADON CO., 138 Wash-
 ington, Chicago, Ill. (See adv. index &
 branch offices, end of book)

*Shingles (Hip Metallic)

INDIANAPOLIS STEEL ROOFING &
 Corrugating Co., Indianapolis, Ind. (See adv.
 on following page)

Shingles (Metallic)

BERGER MFG. CO., Main Office &
 Works, Canton, O. (See adv. index & branch
 offices, end of book)

BURTON, W. J. CO. ("East Lake"), 164 W
 Larned, Detroit, Mich. (See adv. index,
 end of book)

Butler Mfg. Co., 1413 W. 10th, Kansas City,
 Missouri

Chattanooga Roofing & Foundry Co. ("Cen-
 tury"), Chattanooga, Tenn.

Cincinnati Stamping Co. ("Regan's"), 24 W
 McMicker av., Cincinnati, O.

Cortright Metal Roofing Co., 50 N. 23d, Phila.,
 Pa.

Crittenden Roofing & Mfg. Co. (Dealers), 704
 S. 5th, Minneapolis, Minn.

EDWARDS MFG. CO., Eggleston av.,
 4th & 5th, Cincinnati, O. (See adv. index
 & branch offices, end of book)

ELLER MFG. CO., Canton, Ohio. (See adv.
 index, end of book)

INDIANAPOLIS STEEL ROOFING &
 Corrugating Co., Indianapolis, Ind. (See
 adv. on following page)

Iron City Metal Ceiling Co., 2412 Penn. av.,
 Pittsburg, Pa.

Kanneberg Roofing & Ceiling Co., Canton, O.

MERCHANT & EVANS CO. (Inc.), 517
 Arch, Phila., Pa. (See adv. index &
 branch offices, end of book)

Meurer Bros. Co. ("Unique"), Brooklyn,
 N. Y.

Miller & Doing, 83 Washington, Brooklyn,
 N. Y.

MILWAUKEE CORRUGATING CO., Mil-
 waukee, Wis. (See adv. index, end of
 book)

Montross Metal Shingle Co., Camden, N. J.
MULLINS, W. H. CO., Salem, O. (See adv.
 index, end of book)

Cabot's Shingle Stains

The Original and Standard, and the Only Creosote (Wood Preserving) Stains.

They give clear, deep tones, and soft, fresh color effects that can be had in no other Stains; because the best pigments and the most careful and skilful preparation are necessary to produce them. No muddy effects, no blackening, no lifeless colors. Durability guaranteed.

"Wood treated with Creosote is not subject to dry-rot or other decay."—*Century Dictionary.*



Shepley, Rutan & Coolidge, Architects, Boston.



Cabot's Sheathing and Deadening "Quilt"

The most perfect non-conductor of heat and sound. Light, unflammable, decay and vermin proof. An elastic cushion of dead-air cells.

Cabot's Brick Preservative

A complete and permanent waterproofing for brick work.

Conservo Wood Preservative

A cheap and efficient preservative for all exposed lumber.

Samples, Prices and full information sent on application to

SAMUEL CABOT,

Sole Manufacturers

141 Milk Street, Boston, Mass.

28 Dearborn Avenue, Chicago, Ill.

AGENTS—V. H. Schneider, 1133 Broadway, N. Y.; S. H. French & Co., Philadelphia; National Building Supply Co., Baltimore; J. H. Corning, Washington; Cleveland Builders' Supply Co., Cleveland; Lawrence Mendenhall, Cincinnati; J. P. Carlile, Columbus; The C. H. Little Co., Detroit; G. H. Lawes & Co., St. Paul; Whitelaw Bros., St. Louis; Waterhouse & Price Co., San Francisco, Cal.; P. H. Mathews, Los Angeles; H. H. Toogood, Denver; S. W. R. Dally, Seattle; Timms, Cress & Co., Portland, Ore.; F. M. Hamling, Omaha; W. P. Williams, Grand Rapids; Sciple Sons, Atlanta; Zimmerman Building Specialties Co., New Orleans; Day K. Smith & Co., Kansas City; Andrew Muirhead, Toronto; National Roofing and Supply Co., Louisville; D. C. Thornburg, Pittsburg; West End Lumber Co., San Antonio; Fort Worth Builders' Supply Co., Fort Worth; H. H. Richardson & Co., Jacksonville; S. H. Hanson, Oklahoma City; Builders' Supply Corp., Indianapolis, etc., etc.



Soft, rich color effects are produced on Shingles by the use of Shingletint.

There are many brands of Shingle Stains in the market, but only one Shingletint, which means much to the consumer, who may call for it by name and know he is getting the best Shingle Stain made.

Shingletint is a scientific combination of linseed oil, coloring matter, creosote and the necessary drying agents; its use not only beautifies but prolongs the life of the shingles.

Finished woods and descriptive literature sent free upon request.

BERRY BROTHERS, LIMITED,

Varnish Manufacturers.

NEW YORK
BOSTON

PHILADELPHIA
BALTIMORE

CHICAGO
CINCINNATI

ST. LOUIS
SAN FRANCISCO

Factory and Main Office, DETROIT. Canadian Factory, WALKERVILLE, ONT.



**IF YOU FAIL TO FIND
IN THIS**

**COMMERCIAL
REGISTER.**

**THAT WHICH YOU ARE
LOOKING FOR**

WRITE US—

Enclosing a two cent stamp for reply and we will at once use our best endeavor to supply the information desired, free of charge.

S. E. HENDRICKS CO.,

74 Lafayette Street, [Corner Franklin,] NEW YORK.



Nat. Sheet Metal Roofing Co. ("Waiter's"),
Jersey City, N. J.
Penn Metal Ceiling & Roofing Co. (the Sagen-
dorph), 23d & Hamilton, Phila., Pa.
Ringle, Jacob & Son (the Hamsley), 85 Newark
av, Jersey City, N. J.
Wheeling Corrugating Co. (Tin or Galvan-
ized), Wheeling, W. Va.
Willis Mfg. Co., Galesburg, Ill.

Shingles (Red Cedar)

(See Lumber Mfrs., California, Washington &
Oregon.)

Ship Builders

(See also Dry Docks & Marine Railways.)

*Indicates those who build Iron & Steel; †those
who build Wooden; ‡those who build
Iron, Steel & Wooden.

Albion Iron Works, Victoria, B. C.
‡American Boat & Machine Co. (Tugs, River
Vessels, Scows, etc.), 3517 2d, St. Louis,
Missouri
*American Car & Foundry Co., Wilmington,
Del.
American Ship Building Co., Cleveland, O.
*Atlantic Works (Steam Yachts), 70 Border,
E. B., Boston, Mass.
‡Barrett, John & Son (Tugs, River Vessels,
Scows, etc.), Cham. of Com. bldg, Cincin-
nati, Ohio
*Bath Iron Works, Bath Me.
‡Bates, J. B. & Co., 22d & Sangamon, Chi-
cago, Ill.
‡Bayles, Jas. M. & Son, Port Jefferson, N. Y.
Beacham, J. S. & Bro., ft. Warren av., Bal-
timore, Md.
‡Bean, H. M. & L. Co., Camden, Me.
*Bell's Steam Engine Works (Steel Tugs &
Yachts), Buffalo, N. Y.
‡Bendixen, H. D. Ship Building Co., Eureka,
Cal.
*Bertram Engine Works, Co., Toronto, Ont.
‡Blaisdell, N., Bath Me.
‡Boole, W. A. & Son (Inc.), Oakland, Cal.
‡Booz Bros., ft. E. Montgomery, Baltimore,
Maryland
‡Bowker, F. S. & Son, Phippsburg, Me.
‡British Columbia Marine Ry. Co. (Ltd.),
Esquimault, B. C.
‡Brooks, John M., Harbor View, E. Boston,
Mass.
*Buffalo Dry Dock Co., Buffalo, N. Y.
†Burger, H. B. Jr., Manitowoc, Wis.
†Burlee Dry Dock Co., Port Richmond, Bor-
ough of Richmond, New York City
‡Byles, Geo. W. (Tugs, River Vessels, Scows,
etc.), City Island, N. Y.
‡Calvin Co. (Ltd.), Garden Island, Ont.
‡Camden Yacht Bldg. & Ry. Co. (Yachts,
etc.), Camden, Me.
*Canadian Locomotive & Engine Co., Ken-
sington, Ont., Can.
‡Carleton, Norwood & Co., Rockport, Me.
‡Carll, J., Sr., Northport, N. Y.
*Carrier, Lane & Co., Levis, Ont., Can.
Chicago Ship Building Co., The Rookery &
101st & Calumet River, Chicago, Ill.
‡Colonna, C. J., Berkeley, Va.
‡Cobb Bros. (Tugs, River Vessels, Scows, etc.)
Brewer, Me.
‡Cobb, Butler & Co., Rockland, Me.

‡Codd, E. J. Co., Baltimore Md.
‡Conley, Horace J., Green Bay, Wis.
*Cramp, Wm. & Sons, Ship & Engine Bldg.
Co., Beach, c. Fall, Phila., Pa.
†Crane's, Theo. A. Sons Co. (Tugs, River
Vessels, Scows, Dry Docks, etc.), Erie
Basin, Brooklyn, N. Y.
‡Crawford & Reid, Tacoma, Wash.
‡Crosby, H. Manley (Cat Boat Yawls, Launches,
etc.), Osterville, Mass.
†Daimler Motor Co. (Yachts, etc.), 939 Stein-
way av., Long Island City, N. Y.
‡Davidson, James, West Bay City, Mich.
‡Davis Dry Dock Co., Kingston, Ont.
*Delaware River Iron Ship Building & En-
gine Works, Chester, Pa.
‡Deering, G. G. & Co., Bath, Me.
*Detroit Ship Building Co., Detroit, Mich.
*Dialogue, J. H. & Son, Camden, N. J.
‡Dickie, J. W., San Francisco, Cal.
‡Doerr, H. K. Co. (Launches, etc.), Camden,
New Jersey
‡Drien, Thos. & Son (Tugs, River Vessels,
Scows, etc.), Wilmington, Del.
‡Dunn & Elliott, Thomaston, Me.
‡Dubuque Boat & Engine Co., Dubuque, Ia.
*Easton Ship Building Co., New London,
Conn.
‡Ellis, J. S. & Co., Tottenville, S. I., N. Y.
‡Electric Launch Co. (Electric Launches, etc.),
Bayonne, N. J.
‡Ely, Elmer A., Middleton, Conn.
‡Emmons, E. Gerry, Corp. (Tugs, River Ves-
sels, Scows, etc.), Swampscott, Mass.
‡Empire Ship Building Co., Buffalo, N. Y.
‡Englis, Chas. M., 34 Greenpoint av, Brook-
lyn, N. Y.
‡Everett Ship Building Co., Everett, Wash.
‡Favre, Thos. M., Guilford, Miss.
‡Fenton, David Co. (Tugs, River Vessels,
Scows, etc.), Manchester-by-the-Sea, Mass.
*Fletcher, W. & A. Co., Hoboken, N. J.
‡Fretz, Geo., Scranton, Miss.
*Fore River Ship Building Co., Quincy, Mass.
*Fulton Iron Works (Inc.), 509 Market, San
Francisco, Cal.
‡Gamage, A. & M. & Co., So. Bristol, Me.
*Gas Engine & Power Co. & Chas. L. Sea-
bury & Co. (Launches, Yachts, etc.), Mor-
ris Heights, New York
‡Gilchrist, Geo. A., Belfast, Me.
‡Gildersleeve, Oliver & Sons (Coal Boats &
Deck Scows), Gildersleeve, Conn.
‡Gilmore's, A., Sons, Toledo, O.
‡Globe Construction Co., Seattle, Wash.
‡Goble, Geo., Oswego, N. Y.
‡Gratto & Reimers, San Francisco, Cal.
*Great Lakes Engineering Works, Detroit,
Mich.
‡Green Bay Vessel Co., Green Bay, Wis.
‡Greene Bros. Co., Bridgeport, Conn.
*Greenport Basin & Construction Co. (Steam &
Sail Yachts), Greenport, N. Y.
‡Greenport Basin & Construction Co. (Tugs,
River Vessels, Scows, etc.), Greenport,
N. Y.
‡Grignon, Napoleon, Duluth, Minn.
‡Hall Bros., Port Blakeley, Wash'n.
*Hamilton Bridge Co. (Ltd.), Hamilton, On-
tario, Canada
*Harlan & Hollingsworth Corp'n (Steamships,
Steamboats, Tugboats, Ferryboats, Car
Floats, Barges, etc.), Wilmington, Del.
‡Hawley, Geo., Bath, Me.
*Herreshoff Mfg. Co. (also Yachts, etc.),
Bristol, R. I.

‡Hill, J. J., Tacoma, Wash.
‡Hiltebrandt, C., Rondout, N. Y.
‡Hingston, W. J. & Son, Buffalo, N. Y.
‡Holmes Shipbuilding Co., West Mystic, Conn.
‡Hitchings & Joyce, Hoquiam, Wash'n.
*Howard Ship Yards Co., Jeffersonville, Ind.
‡Jacob, Robt. (Tugs, River Vessels, Scows,
etc.), City Island, N. Y.
‡Jacobs, N. A. (Est. of) (Tugs, River Vessels,
Scows, etc.), Portland, Me.
‡Jakobson & Peterson (Scows, etc.), ft. of
24th, Brooklyn, N. Y.
*Johnson Iron Works (Ltd.) (Steamers, Barges
& Lighters), Julia & Delta, New Orleans,
La.
‡Kelley-Spear Co., Bath, Me.
‡Kenyon, A. P., Marine City, Mich.
‡King & Winge, Seattle, Wash.
‡Kingston Boat Co., Kingston, Ont.
‡Kirby, Thos. H. & Son, St. Michaels, Md.
‡Kirk, Wm. P. (Tugs, River Vessels, Scows,
etc.), Toms River, N. J.
‡Kneass, Geo. W. (Tugs, River Vessels,
Scows, etc.), 718 3d, San Francisco, Cal.
‡Laird, J. G. & Sons, Ashtabua, O.
‡Lake Torpedo Boat Co., Bridgeport, Conn.
*Lawley, Geo. & Son Corp., S. B., Boston,
Mass.
‡Lindstrum, J. & Co., Aberdeen, Wash.
†Lockwood Mfg. Co., 61 Sumner, E. B., Bos-
ton, Mass.
‡Long Island Machine & Marine Construction
Co., L. I. City, N. Y.
‡Lutchow & Moore Co., Orange, Tex.
‡McCosker, Thos. & Co., Baltimore, Md.
‡McKie, Wm., 100 Border, Boston, Mass.
*Marine Iron Works, Station A, Chicago, Ill.
‡Marine Ship Bldg. & Coal Co., Alexandria,
Va.
‡Mar, Jno. E. & Son, W. Haven, Conn.
‡Marine Railway Machine & Boiler Works
(Tugboats, etc.), Baltimore, Md.
‡Marlton, Wm., Goderick, Ont.
‡Marsh, Jas. T., Solomons, Md.
†Marvel, T. S. Shipbuilding Co., Newburg,
Md.
‡Maryland Steel Co., Baltimore, Md., N. Y.
‡Mather, C. B. Corp'n (Tugs, River Vessels,
Scows, etc.), Rowley, Mass.
*Merrill-Stevens Co., Jacksonville, Fla.
†Michigan Steel Boat Co., Detroit, Mich.
‡Mills, Jno. L., Camden, N. J.
†Milwaukee Dry Dock Co., Milwaukee, Wis.
‡Montreal Transportation Co., Kingston, Ont.
†Moore, Saml. L. & Sons Corp'n, Elizabeth,
N. J.
†Moran Bros. Co., Seattle, Wash.
‡Muncy, Thos. F. (Yachts Only), Bay Shore,
N. Y.
‡Muir Bros., Port Dahousie, Ont.
‡Murphy, John H. (Tugs, River Vessels,
Scows, etc.), 643 Magazine, New Orleans,
La.
*Neafie & Levy Ship & Engine Building Co.,
1336 Beach, Phila., Pa.
‡New England Co., Bath, Me.
*New York Ship Building Co., Camden, N. J.
*Newport News Dry Dock & Ship Building
Co., Newport News, Va.
‡Nilson Yacht Bldg. Co. (Yachts, etc.), Balti-
more, Md.
‡Oades, Walter H., Detroit, Mich.
‡Olligner & Bruce Dry Dock Co., Mobile, Ala.
‡Owen Sound Dry Dock & Ship Bldg. Co.,
Owen Sound, Ont.
‡Paducah Dry Dock Co., Paducah, Ky.
‡Palmer, R. & Son Shipbuilding & Marine
Railway Co., Noank, Conn.
‡Paquet, Joseph, 112 E. 12th, Portland, Ore.

I. S. R. & C. Co.'s

ORNAMENTAL HIP SHINGLES

A perfect hip finish. Highly ornamental. Absolutely
water-tight. They lay flat on roof, therefore no openings
to admit rain or snow, as with wood strips or metal rolls.
Adjustable to length shingles of roof are laid to weather.

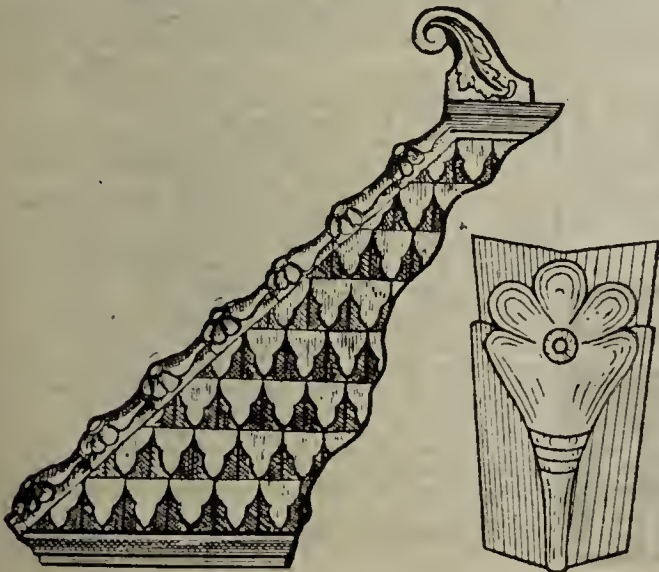
4"x7" Hip Shingle, for shingles laid 5" to 6" to weather;
1,000, \$20.00; 500, \$11.00; 250, \$5.75.

4"x9" Hip Shingle, for shingles laid 6" to 7" to weather;
1,000, \$22.00; 500, \$12.25; 250, \$6.50.

Freight prepaid to any point in the United States east
of the Rockies.

Indianapolis Steel Roofing & Corrugating Co.

INDIANAPOLIS, IND.



Pelly Dry Dock Co., ft. of 26th, Brooklyn, N. Y.
 §Pendleton Ship Bldg. & Navigation Co., Isles-Percy & Small, Bath, Me. boro, Me.
 §Penna. & Lake Erie Dock Co., Pittsburg, Pa.
 §Perth Amboy Dry Dock Co., Perth Amboy, N. J.
 *Perth Amboy Ship Building & Engineering Co., Perth Amboy, N. J.
 *Polson Iron Works, Toronto, Can.
 *Port Huron Ship Building Co., Port Huron, Mich.
 §Phillips, G. K. & Co., Bethel, Del.
 §Poillon, C. & R., N. Y. & Clinton, So. Brooklyn, N. Y.
 §Portland Ship Building Co. (Motor Boat Launches, Yachts, also Ship Knees), Portland, Me.
 §Pouliot Boat & Power Co., Sandusky, O.
 *Pusey & Jones Co. (Yachts, Sailing & Steam Vessels), Wilmington, Del.
 †Racine Boat & Mfg. Co. (Steel Vessels, Canoes, Yachts, etc.), Muskegon, Mich.
 Raritan Dry Dock Co. (Scows, Tugs, Barges, etc.), Perth Amboy, N. J.
 §Read Bros., Fall River, Mass.
 §Reibolt Wolter & Co., Sturgeon Bay, Wis.
 §Reynolds, Frank W. (Tugs, River Vessels, Scows, etc.), Canajoharie, N. Y.
 *Richmond Iron Works, Richmond, Va.
 *Risdon Iron Works, Steuart & Folsom, San Francisco, Cal.
 *Riter-Conley Mfg. Co., Pittsburg, Pa.
 §Rossiter, Chas. S. & Co., ft. of Montgomery, Baltimore, Md.
 §Ryan, John, Whitehall, N. Y.
 §Sawyers Bros., Milbridge, Me.
 §Sawyer, Warren, Milbridge, Me.
 *†Sewall, Arthur & Co., Bath, Me.
 *Ship Owners Dry Dock Co., Chicago, Ill.
 §Simpson Lumber Co., North Bend, Ore.
 §Skaneateles Boat & Canoe Co., Skaneateles, N. Y.
 *Skinner Ship Building & Dry Dock Co., Baltimore, Md.
 §Smith, Abram & Son, Algonac, Mich.
 §Smith & McCoy, Norfolk, Va.
 §Smith, Jno. P. Co., Nyack, N. Y.
 §Snow, I. L. & Co., Rockland, Me.
 §Southern Ship Bldg. Co., Jacksonville, Fla.
 *Spedden Ship Building Co., Baltimore, Md.
 §Starlin Ship Yards & Iron Works, Port Richmond, S. I., N. Y.
 §Stearns & McKay (Tugs, River Vessels, Scows, etc.), Marblehead, Mass.
 §Stetson, E. & I. K., Bangor, Me.
 §Stone, W. F. & Co. (Tugs, River Vessels, Scows, etc.), San Francisco, Cal.
 §Story, A. D., Essex, Mass.
 *Superior Ship Building Co., Duluth, Minn.
 §Supple, Jos., Portland, Ore.
 §Swenson, John, ft. of Warren, Jersey City, N. J.
 §Swenson, Peter, Tiburon, Cal.
 *Tacoma Shipbuilding Co., Tacoma, Wash.
 §Tarr & James, Essex, Mass.
 §Thames Towboat Co., New London, Conn.
 §Thropp, Jno. E. Sons Co. (Small Passenger Steamers, Tugs & Yachts Complete), ft. of Lewis, Trenton, N. J.
 *Toledo Ship Building Co., Toledo, Ohio.
 §Truscott Boat Mfg. Co., St. Joseph, Mich.
 *United Engineering Works, San Francisco, Cal.
 *Union Iron Works, 222 Market, San Francisco, Cal.
 *United States Shipbuilding Co., 43 Cedar, New York
 §Vansant, Stanley C., Atlantic City, N. J.
 §Washburn Bros., Thomaston, Me.
 §Waterhouse, Frank & Co. (Inc.), Seattle, Wash.
 §Welt, Geo. L., Waldo, Me.
 *West Bay City Ship Building Co., West Bay City, Mich.
 §White, C. G., Everett, Mass.
 §White, E. I., Machias, Me.
 *White, Robert Engineering Works (Tugboats, Lighters, etc.), ft. of Columbia, Brooklyn, N. Y.
 §Wignall, Jas. H., Philadelphia, Pa.
 §Williams-Whitlesey Co. (Tugs, River Vessels, Scows, etc.), Long Island City, N. Y.
 §Woodall, Wm. E. & Co., ft. Allen, Baltimore, Md.
 §Wolverine Motor Co. (Launches, etc.), Grand Rapids, Mich.
 §Wood, B. F. (Tugs, River Vessels, Scows, etc.), City Island, N. Y.

Ship Knees

Portland Ship Building Co., Portland, Me.

Shock Absorbers

Baldwin Chain & Mfg. Co. ("House"), Worcester, Mass.

Diezemann Shock Absorber Co. ("Dieze-mann"), 1311 Hudson, Hoboken, N. J.
 Duke, Oak ("Condac"), Wellsville, N. Y.
 Gabriel Horn Mfg. Co. ("Foster"), 3900 Hamilton av., Cleveland, Ohio
 Graygood Co. ("Graygood"), 53 W. 93d, New York
 Hartford Suspension Co. ("Truffault-Hartford"), 67 Vestry, N. Y.
 Hercules Auto. Specialty Mfg. Co., Los Angeles, Cal.
 Herz & Co. ("Pater Noster"), 203 Lafayette, New York
 Hotchkin, P. M. ("Hotchkin" Anti-Jolt Device), 4022 Lake av., Chicago, Ill.
 Indianapolis Bolster Spring Co., 107 S. Meridian, Indianapolis, Ind.
 Kelsey, C. W., 317 W. 59th, New York
 Kelsey Suspension Co., Tarrytown, N. Y.
 Kilgore Automobile Air Cushion Co., 48 Columbus av., Boston, Mass.
 Motor Supplementary Spring Co., 108 Fulton, N. Y. City
 Rueckert Compound Shock Absorber (Thos. E. Curry, Mgr.), 66 Leonard, New York City
 Sager, J. H. Co., Rochester, N. Y.
 Shippey, George E., 220 1st, Pittsburg, Pa.
 Supplementary Spiral Spring Co., 4524 Delmar boul., St. Louis, Mo.
 Toquet, B. Louis, South Norwalk, Conn.
 Twombly Power Co., 12th av. & 51st, N. Y.
 Vestal Shock Absorber Co., Baum & Whitefield, Pittsburg, Pa.
 Weeber, C. J. Mfg. Works, Albany, N. Y.
 Walker, E. C. Co., 1905 Logan, Louisville, Ky.

Shockers (Corn)

International Harvester of America, 7 Monroe, Chicago, Ill. (Osborne Plant, Auburn, N. Y.)

Shoe Blackings & Polishes

Bixby, S. M. & Co., 194 Hester, New York.
 Burckard Blacking & Oil Co. ("Okolite"), Baltimore, Md.
 Hawthaway, C. L. & Son, Boston, Mass.
 Whittemore Bros. Co. (Polishes, Paste, etc., "Quick White," "Dandy," "Bossola," "Gilt Edge," "Baby Elite," "Star," "Superb," "Dandy Russet Paste"), Cambridge, Mass.

Shoes (Cutter)

Sweet's Steel Co., Williamsport, Pa.

Shoes (Horse & Mule)

American Horse Shoe Co. (Horse & Mule), Phillipsburg, N. J.
AMERICAN STEEL & WIRE CO. (Horse)
 "Juanita" Brand, Iron or Steel, in all Sizes & Patterns, also Toe Calks, The Rookery, Chicago, Ill. (See adv. Index & branch offices, end of book)
 Bryden Horse Shoe Co. (Horse & Mule), Catsauqua, Pa.
 Burden Iron Co. (Horse), Troy, N. Y.
 Eagle Horse Shoe Co., South Milwaukee, Wis.
 Meyer, Otto A. Co. (Steel Calk Horse Shoe), Milwaukee, Wis.
 Neverslip Mfg. Co. ("Neverslip" Red Tip Horse Shoes), New Brunswick, N. J.
 Old Dominion Iron & Nail Works Co. (Horse & Mule), Richmond, Va.
 Phoenix Horse Shoe Co. (Horse & Mule), Chicago, Ill.
 Rhode Island Perkins Horse Shoe Co. (Horse & Mule), Providence, R. I.
 Standard Horse Shoe Co., Boston, Mass., & South Wareham, Mass.
 Tredegar Co., Richmond, Va.
 Virginia Iron, Coal & Coke Co., Bristol, Va.
 Williams Drop Forging Co. ("Williams" Cant-slip Drop Forged Horse Shoes & Removable Calks), Scranton, Pa.

Shoes (Ox)

Atwater Mfg. (Forged Wrought Iron), South-ington, Conn.
 Scranton Forging Co., Scranton, Pa.
 Woodruff, W. W. & Sons Co., Mt. Carmel, Conn.

Shoes (Plank)

Hollard, Jos. G. (Steel), 141 Raymond, Brooklyn, N. Y.

Shoes (Rubber Horse)

Diamond Rubber Co., Akron, Ohio.
 Goodyear Tire & Rubber Co., Akron, O.
 Revere Rubber Co., 77 Bedford, Boston, Mass., & 59 Reade, New York

Shoes & Dies (Stamp Mill)

ALLIS-CHALMERS CO., Milwaukee, Wis.
 (See adv. Index & branch offices, end of book)

AMERICAN BRAKE SHOE & FOUN-
 dry Co. (Cast Steel), 170 B'way, New York.
 Works & Sales Office: Chicago Heights, Ill.
 (See adv. Index & branch offices, end of book)

*American Steel Foundries, Main Office, 42 B'way, New York
 Chester Steel Casting Co., 407 Sansom, Phila., Pa., & Chester, Pa.
 Chrome Steel Works (Adamantine), Chrome, N. J.
 Colorado Iron Works Co., 33d & Wynkoop, Denver, Col.
 Commercial Natl. Bank bldg, Chicago, Ill.
 Davis, F. & M. Iron Works Co., 8th & Larimer, Denver, Col.

Denver Eng. Works Co., Denver, Col.
 Hendy, Joshua Machine Works (the Wilson), San Francisco, Cal.

KOPPEL, ARTHUR CO., 68 Broad,
 New York. (See adv. Index & branch offices, end of book)

National Steel Castings Co., Montpelier, Ind.
 Power & Mining Machinery Co., 52 William, New York. Works, Cudahy, Wis.
 Risdon Iron Works, Stewart & Folsom, San Francisco, Cal.
 Taylor Iron & Steel Co. (Hatfield), High-bridge, N. J.

Western Forge Co., 520 Olive, St. Louis, Mo.
WIENER, ERNST CO., 68 Broad, New
 York. (See adv. Index, end of book)

Shooks (Box)

Acushnet Saw Mill Co., Acushnet, Mass.
 Alleghany, The Box Co. (Exp.), Richmond, Va.
 Anderson-Tully Co., N 2d & I. C. R. R., Memphis, Tenn.

Astoria Box Co. (Exp.), Astoria, Ore.
 Badger Box & Lumber Co. (Exp.), Grand Rapids, Wis.

Barnes, E. H. Co., 26 B'way, New York
 Bartlett Box & Lumber Co., Westboro, Mass.
 Barron, Jas. S. Co. (Exp.), 127 Franklin, New York
 Beardsley, R., Buckeye, Wash.

Bradley, N. B. & Sons, Bay City, Mich.
 Branning Mfg. Co., Edenton, N. C.
 Breault, M. Co., Cohoes, N. Y.

Brookings Lumber & Box Co., Highland, Cal.
 Buffalo Box Factory (Exp.), 240 Perry, Buffalo, N. Y.
 Carter, Jno. A., Petersham, Mass.

Chaffee Bros. Co. (Exp.) (By Car Lots), Oxford, Mass.
 Chandler, The E. L. Co., Barton Landing, Vt.

Chicago Mill & Lumber Co., Cairo, Ill.
 Clow, Elmer L., Eastbrooks, Me.
 Cochran Lumber Co., Keel opp N Main, Chelsea, Memphis, Tenn.

Cohn & Bock, Princess Anne, Md.
 Connecticut Box Co. (Inc.), New Haven, Conn.

Derry, Fred J., Danvers, Mass.
 Eddy, F. G. & Co., Bay City, Mich.
 Fidalgo Mill Co. (Exp.), Anacortes, Wash.

Flick, A. R. Box Co., Dubuque, Ia.
 Gale, Conrad H., Tully, Mass.
 Gilkey & Anson Co., Merrill, Wis.

Goodwillie Bros., Chicago, Ill.
 Goodwillie Bros., Wausau, Wis.
 Griggs, D. B. & Sons, Chicopee Falls, Mass.

Hahn, The J. N. Co., Cleveland, O.
 Harroun, J. E. & Son, Watertown, N. Y.
 Iowa Lumber & Box Co., Medford, Ore.

Jordan Lumber Co., Old Town, Me.
 Keokuk Box Co., 1510 Commercial al, Keokuk, Ia.

Kelley Lumber & Shingle Co., Traverse City, Mich.
 Kress, F. J. Box Co., Pittsburg, Pa.

When writing to firms whose names appear in this book please mention

HENDRICKS' COMMERCIAL REGISTER.

Lake Superior, The Lumber & Box Co., Ashland, Wis.
Lawrence, Newhall, Page & Co., Augusta, Me.
Linderman Box & Veneer Co., Eau Claire, Wis.
Lucas Lumber Co. (Exp.), Tacoma, Wash.
Luman, J. & Sons, Fall River, Mass.
Marquette & Menominee Box Co., Marinette, Wis.
Melendy, C. F., Nashua, N. H.
Mengel, E. & Co., Bay City, Mich.
Mengell, C. C., Jr., & Bro. (Exp.), Louisville, Ky.

Mershon-Bacon Co. (Boxes in Shooks or Nailed), Bay City, Mich.
Mershon, Schuette, Parker & Co. (Exp.), Saginaw, Mich.
Michigan Mfg. & Lumber Co. (Exp.), Holly, Mich.

Millard Lumber Co., New Hamburg, N. Y.
Mississippi Box Co., Muscatine, Ia.
Morrison Mill Co., Bellingham, Wash.
Munroe & Briner, Muskegon, Mich.
Murphy Lumber Co., Green Bay, Wis.
Musser, Wm. Lumber & Mfg. Co., Spokane, Wash.
Ohio Cooperage Co., Cleveland, O.
Osgood & Blodgett Mfg. Co., Duluth av nr E 7th, St. Paul, Minn.
National Box Co. (Exp.), 105 Jefferson, Cleveland, O.
Paepcke-Leicht Lumber Co. (Exp.), 1520 Tribune bldg, Chicago, Ill.
Peart, Nield & McCormack, Belfield, Va.
Pierpont Mfg. Co. (Exp.), Savannah, Ga.
Presbrey, A. A. & Son Co., Providence, R. I.
Rice, Henry H., South Athol, Mass.
Rieckhoff, W. H. Co., New Duluth, Minn.
Saginaw & Manistee Lumber Co., Williams, Ariz.

Schultze Bros. (Exp.), 108 Fuitou, New York
Sierra Lumber Co., Red Bluff, Cal.
Skinner, French & Co., Barton Landing, Vt.
Southern Fruit Package Co., Pughs, Va.
South Muscatine Lumber Co., Muscatine, Ia.
South Side Lumber Co., Traverse City, Mich.
Standard Oil Co., Oswego, N. Y.
Stevens Point Box Co., Stevens Point, Wis.
Stillwater Mfg. Co., The, Stillwater, Minn.
Stone, E. E. Lumber & Box Co. (Exp.), Spencer, Mass.
Stovall Mfg. Co., Stovall, N. C.
Thompson, G. A. & Son, Hurlock, Md.
Treworgy, Charles J., Ellsworth Falls, Me.
Vance, E. J. Box Co. (Ltd.) (Exp.), Bay City, Mich.

Varney, Isaac & Sons (Exp.), Fall River, Mass.
Verdi Lumber Co., Verdi, Nev.
Ward, C. E. Box Co. (Exp.), St. Paul, Minn.
Warrior Mfg. Co., 14th, Aves B to C, Birmingham, Ala.
Wausau Box & Lumber Co., Wausau, Wis.
White, A. O., Saginaw, Mich.
Wing & Engle Co., Old Town, Me.

Shooks (Tub, Bucket, Etc.)

Cypress Tank & Mfg. Co. (also for Washing Machines & Ice Cream Freezers), Patterson, La.
Langeland Mfg. Co. (Box), Muskegon, Mich.

Shooting Galleries (Mechanical)

Mangels, Wm. F. (Steel), 2941 W. 5th, Brooklyn, N. Y.
Parker, C. W., Abilene, Kan.

Shot Mfrs.

Bailey, Farrel Mfg. Co., Pittsburgh, Pa.
Colwell Lead Co., 63 Centre, N. Y.
Hoyt Metal Co., 4th & Locust, St. Louis, Mo., & Perth Amboy, N. J.
Leroy Shot & Lead Works, 261 Water, N. Y.
Markle Lead Works, Rialto bldg, St. Louis, Mo.
Raymond Lead Co., 55 W. Lake, Chicago, Ill.
Robertson, Jas. Mfg. Co., 14 S. Hanover, Baltimore, Md.
Selby Smelting & Lead Co. (Drop, Chilled, etc.), San Francisco, Cal.
Shepard, Sldney & Co., Buffalo, N. Y.
Sparks, Thos. W., 121 Walnut, Phila., Pa.
Sportsman's Shot Works, c Court & Harriet, Cincinnati, O.
Fatham & Bros., 224 S 5th, Phila., Pa.
United Lead Co., 71 B'way, New York
Wythe Lead & Zinc Mine Co., Austinville, Va.

Shot (Chilled Steel)

Bowers, R. C. & Co., Montpelier, Vt.
Calais Shot Works, Calais, Me.
HARRISON SUPPLY CO., 5 & 7 Dorchester av. Extension, Boston, Mass. (See adv. below)
Townsend, Townsend & Co., 453 W 21st, New York

Shovel, Spade & Scoop Mfrs.

Ames, Oliver & Sons Corp., Ames bldg, Boston, Mass. Works, North Easton, Mass.
Avery Stamping Co. ("Never Break"), Cleveland, O.
Baldwin Forging & Tool Co., Columbus, O.
Belknap Mfg. Co., Anamosa, Iowa.
Beall Bros., Inc., Alton, Ill.
CAREY, GEO. H. (Jobber), 1 B'way, New York, N. Y. (See adv. index, end of book)
Chisholm, Wm. & Sons, 358 Case av, Cleveland, Ohio
Collins Co., Collinsville, Conn.
Continental Tool Co. (Garden Spades Only), Frankfort, N. Y.
Elwood Steel Co., Elwood, Ind.
Hubbard & Co., Pittsburgh, Pa.
Hussey-Binns Shovel Co. (Crucible Cast Steel), Pittsburgh, Pa. Works, Charleroi, Pa.
Indiana Rolling Mill Co., New Castle, Ind.
Jackson Shovel & Tool Co., Montpelier, Ind. & Market & Randolph, Chicago, Ill.
Maynard, C. A., Northampton, Mass.
Mt. Pleasant Tool Co., Mt. Pleasant, Pa.
Myers, H. M. Co., Beaver Falls, Pa.
New Castle Shovel Co., New Castle, Pa.
Ohio Shovel & Stamping Co., Canal Dover, Penn Shovel Co., Warren, Pa.
Ohio Pfeifer, Jno. & Co., 222 Race, Phila., Pa.
Pittsburg Shovel Co., Frick bldg., Pittsburgh, Pa., Works, Leechburg, Pa.
Rowland, Maxwell & Co. (Inc.), 432 Market, Philadelphia, Pa.
Rowland's, T. Sons, Cheltenham, Pa.
St. Louis Shovel Co., 4038 Duncan av, St. Louis, Mo.
Star Shovel & Range Co., Vincennes, Ind.
Stroh, Peter (Malt), Covington, Ky.
Union Furnace Mfg. Co., Union Furnace, Pa.
Wood Shovel & Tool Co., Piqua, O.
Wright Shovel Co., Anderson, Ind.
Wyoming Shovel Works, Wyoming, Pa.

Shovels (Automatic Steam)

Hunt, C. W. Co., West New Brighton, New York City, & 45 B'way, New York
MEAD-MORRISON MFG. CO., Cambridge (Boston), Mass., & 11 B'way, New York. (See adv. index & branch offices, end of book)
Thew Automatic Shovel Co., Lorain, O.

Shovels (Bakers')

Hussey-Binns Shovel Co. (Crucible Cast Steel), Pittsburgh, Pa.

Shovels (Coal)

Beall Bros., Inc., Alton, Ill.
Chisholm, Wm. & Sons, 358 Case av., Cleveland, Ohio
Collins Co., Collinsville, Conn.
Hardsocg Martin Co., Allegheny, Pa.
Hubbard & Co., Pittsburgh, Pa.
Hussey-Binns Shovel Co. (Crucible Cast Steel), Pittsburgh, Pa. Works, Charleroi, Pa.
Meyers, H. M. Co., Beaver Falls, Pa.
Maynard, C. A. ("C. A. Maynard"), Northampton, Mass.
Mt. Pleasant Tool Co., Mt. Pleasant, Pa.
New Castle Shovel Co., New Castle, Ind.
Pfeifer, Jno. & Co., 224 Race, Phila., Pa.
Pittsburg Shovel Co., Frick bldg., Pittsburgh, Pa. Works, Leechburg, Pa.
Union Furnace Mfg. Co., Union Furnace, Pa.

Shovels (Cultivator)

Akron Machine Co., Akron, O.
Albright, Jas. H. & Sons, Mifflinburg, Pa.
Allen, S. L. & Co., 1017 Market, Phila., Pa.
Avery, B. F. & Sons, Louisville, Ky.
Cambria Steel Co. (Gautier Dept.), Johnstown, Pa., & Arcade bldg, Philadelphia, Pa.
Crescent Forge & Shovel Co., Havana, Ill.
Jule Mfg. Co., Albion, Mich.
Harrow Spring Co., Kalamazoo, Mich.
Havana Metal Wheel Co. ("Crescent"), Havana, Ill.
Hench & Dromgold Co., York, Pa.
Mason, F. C. & Co., St. John's, Mich.
Monroe Plow Co., Moline, Ill.
Morrison Mfg. Co., Ft. Madison, Ia.
Ohio Cultivator Co., Bellevue, O.
Parlin & Orendorff Co., Canton, Ill.
Star Mfg. Co., Carpentersville, Ill.
Weyburn Co. ("Rockford Ideal"), Rockford, Ill.
White, S. R. & Bro., Norfolk, Va.

Shovels (Drain)

Beall Bros., Inc., Alton, Ill.
Harriman Hoe & Tool Co. ("Decatur"), Harri- man, Tenn.
Hubbard & Co., Pittsburgh, Pa.
Iwan Bros. ("Iwan's Champion"), Streator, Ill.
Mt. Pleasant Tool Co. (Long Handle), Mt. Pleasant, Pa.
New Castle Shovel Co., New Castle, Ind.
Pittsburg Shovel Co., Frick bldg, Pittsburgh, Pa. Works, Leechburg, Pa.

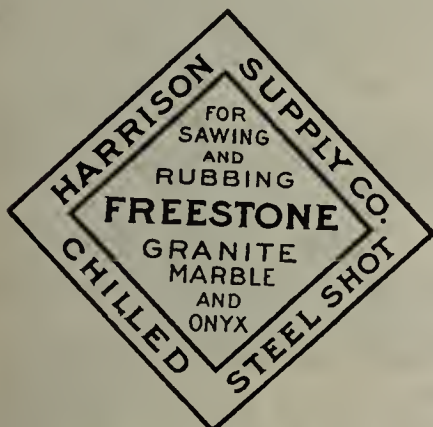
Shovels (Electric)

Vulcan Iron Works Co., Toledo, O.

WORKS { MIDDLESBROUGH, ENGLAND.
ABERDEEN, SCOTLAND.

CABLE ADDRESS "NATE BOSTON"
TELEPHONE CONNECTION.

CABLE CODES: A. B. C. 4th and 5th EDITIONS
ADAMS CABLE CODE, 10th EDITION



HARRISON SUPPLY COMPANY,

NATHAN C. HARRISON, General Agent

Celebrated Chilled Steel Shot

Importers, Wholesale and Retail Dealers in

Granite and Marble Polishers' Supplies

OF EVERY DESCRIPTION.

Granite and Marble Polishing Machinery.

5 and 7 Dorchester Ave. Extension, BOSTON, MASS.



Positively the Largest Concern in this Country Handling Granite and Marble Polishing Supplies Exclusively

Shovels (Fire)

Dayton Malleable Iron Co. (Malleable Iron), Dayton, O.
 Geuber & Paeschke (Fire Shovels), Milwaukee, Wis.
 Hazel Atlas Glass Co. (Wrought and Stamped), Wheeling, W. Va.
 Ireland & Matthews Mfg. Co., Detroit, Mich.
 Iron Clad Mfg. Co., 204 Varet, Brooklyn, N. Y.
 Union Furnace Mfg. Co., Union Furnace, Pa.

*Shovels (Hand Dump)

FAIRBANKS, MORSE & CO. (for Quickly Moving Coal or Grain), Franklin & Monroe, Chicago, Ill. (See adv. index & branch offices, end of book)

Shovels (Lime)

Hubbard & Co., Pittsburg, Pa.
 Mt. Pleasant Tool Co. (Long Handle), Mt. Pleasant, Pa.
 Pfeifer, Jno. & Co. (Cast Steel), 224 Race, Phila., Pa.
 Pittsburg Shovel Co., Frick bldg., Pittsburg, Pa. Works, Leechburg, Pa.

Shovels (Mining Machine)

Beall Bros., Inc., Alton, Ill.
 Hubbard & Co., Pittsburg, Pa.
 Hussey-Binns Shovel Co. (Crucible Cast Steel), Pittsburg, Pa. Works, Charleroi, Pa.
 Mt. Pleasant Tool Co., Mt. Pleasant, Pa.
 New Castle Shovel Co., New Castle, Ind.
 Pfeifer, Jno. & Co., 224 Race, Phila., Pa.
 Pittsburg Shovel Co., Frick bldg., Pittsburg, Pa. Works, Leechburg, Pa.
 Union Furnace Mfg. Co., Union Furnace, Pa.

*Shovels (Power, Grain)

DODGE MFG. CO., Mishawaka, Ind. (See adv. index & branch offices, end of book)

Shovels (Moulders')

Beall Bros., Inc., Alton, Ill.
 Hubbard & Co., Pittsburg, Pa.
 Mt. Pleasant Tool Co., Mt. Pleasant, Pa.
 New Castle Shovel Co., New Castle, Ind.
 Pfeifer, Jno. & Co., 224 Race, Phila., Pa.
 Pittsburg Shovel Co., Frick bldg., Pittsburg, Pa. Works, Leechburg, Pa.

Shovels (Snow)

Atlas Mfg. Co., Danville, Pa.
 Avery Stamping Co. (Steel), Cleveland, O.
 Beall Bros., Inc., Alton, Ill.
 Benton Mfg. Co., Charlotte, Mich.
 Hubbard & Co., Pittsburg, Pa.
 Hussey-Binns Shovel Co. (Crucible Cast Steel), Pittsburg, Pa. Works, Charleroi, Pa.
 Kohler, F. E. & Co., Canton, O.
 Mt. Pleasant Tool Co., Mt. Pleasant, Pa.
 Neverslip Tin Cover Co., Watertown, N. Y.
 "Gifford's Galvanized Steel Plate"
 New Castle Shovel Co., New Castle, Ind.
 Owosso Mfg. Co. (Wood), Owosso, Mich.
 Pfeifer, Jno. & Co., 224 Race, Phila., Pa.
 Phillips, A. J. Co. (Wood & Steel), Fenton, Mich.
 Pittsburg Shovel Co., Frick bldg., Pittsburg, Pa. Works, Leechburg, Pa.
 Rugg Mfg. Co. ("Star Rugg" Wood & Steel), Greenfield, Mass.

Shovels (Steam)

(See also Buckets, Clam Shell, etc.)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)
 American Locomotive Co. (Atlantic), 111 B'way, New York
 Bellefontaine Foundry & Machine Co., Bellefontaine, O.
 Beatty, M. & Sons, Welland, Ontario, Canada
 Bucyrus Co., South Milwaukee, Wis.
 East St. Louis Locomotive & Machine Shop Co. (Rebuilt), East St. Louis, Ill.
 Fairbank's Steam Shovel Co., Marion, O.
 Hunt, C. W. Co., 45 B'way, New York, & W New Brighton, Staten Island, N. Y. City

Kilgore Peteler Co. (Railway Traction & Mining), Minneapolis, Minn.
 Kingsford Foundry & Machine Works, Oswego, N. Y.

KOPPEL, ARTHUR W. CO., 68 Broad, New York. (See adv. index & branch offices, end of book)

Marion Steam Shovel Co., Marion, O.
MEAD-MORRISON MFG. CO., Cambridge (Boston), Mass., & 11 B'way, New York. (See adv. index, & branch offices, end of book)

Ohio Steam Shovel Co., Toledo, O.
 Osgood Dredge Co., Albany, N. Y.

SHAW, WILLIS (New & Second Hand), 171 LaSalle, Chicago. (See adv. index, end of book)

Souther, John & Co., 185 Summer, Boston, Mass.

Thew Automatic Shovel Co., Lorain, O.
 Toledo Foundry & Machine Co. ("Victor"), Toledo, O.

Vulcan Iron Works Co., Toledo, O.
WATSON, BENJAMIN, 66 Beaver, New York. (See adv. index, end of book)

WIENER, ERNST CO., 68 Broad, New York. (See adv. index, end of book)

Shovels (Steam, Second-Hand)

Apex Equipment Co. (Mfrs.' Agents) (All Kinds), 11 B'way, New York
 Baldwin Equipment & Supply Co., Fisher, bldg, Chicago, Ill.

Contractors' Equipment Co., West End Trust bldg, Phila., Pa.
 Cincinnati Equipment Co., Cullom's Station, Cincinnati, O.

Law Railing Equipment Co., Western Union bldg., Chicago, Ill.

Males Co., Traction bldg, Cincinnati, O., & 26 Cortlandt, New York

Mitshkun, M. Co., Isabella av. & E, Detroit, Mich.

Torbet, A. C. & Co., Monadnock blk, Chicago, Ill.

SHAW, WILLIS, 171 LaSalle, Chicago. (See adv. index, end of book)

WATSON, BENJAMIN, 66 Beaver, New York. (See adv. index, end of book)

Zelnicker, Walter A. Supply Co., 408 N 4th, St. Louis, Mo.

Shovels (Telegraph)

Beall Bros., Inc., Alton, Ill.
 Hubbard & Co., Pittsburg, Pa.
 Hussey-Binns Shovel Co. (Crucible Cast Steel, Handles 7 to 8 ft.), 541 Wood, Pittsburg, Pa. Works, Charleroi, Pa.

Mt. Pleasant Tool Co., Mt. Pleasant, Pa.
 New Castle Shovel Co., New Castle, Ind.

Pfeifer, Jno. & Co., 224 Race, Phila., Pa.
 Pittsburg Shovel Co., Frick bldg, Pittsburg, Pa. Works, Leechburg, Pa.

Union Furnace Mfg. Co., Union Furnace, Pa.

Show Cases

Barlow Mfg. Co., Holyoke, Mass.
 Borneman & Co., 62 N 4th, Phila., Pa.
 Columbus Corner Post Co., Columbus, O.
COULSON, J. W. & CO., 98 N. 3d, Columbus, O. (See adv. index & branch offices, end of book)

Crane Glass & Mfg. Co. (All Glass), Cleveland, O.

Sun Mfg. Co., Columbus, O.
 Quincy Show Case Works, Quincy, Ill.
 Yesbera Mfg. Co., Toledo, Ohio

Shrinkers (Tire)

Boynton & Plummer, Worcester, Mass.
 Champion Blower & Forge Co., Lancaster, Pa.
 Hendricks Mfg. Co. ("Wolfe" cold), Waynesboro, Pa.

Illinois Iron & Bolt Co., Carpentersville, Ill.
 Sandage Steel Skein Co., South Bend, Ind.

Sovereign, C. E. Co (Mole), Rockford, Ill.
 Weyburn Co. ("Rockford Ideal"), Rockford, Ill.

Wiley & Russell Mfg. Co. ("Green-River" Horizontal & Upright), Greenfield, Mass.

Shutes (Package)

Herrmann & Grace, 671 Bergen, Brooklyn, New York

Shutter Bars

(See Bars, Shutter.)

Shutter Workers

Brockton Shutter Worker Co., Stoughton, Mass.
 Mallory Mfg. Co., Flemington, N. J.
 Quincy Foundry & Novelty Co. ("Pitney"), Quincy, Ill.
 Sargent & Co., New Haven, Conn., & 94 Centre, New York
 Zimmerman, G. F. S. & Co., Frederick, Md.

Shutters (Automatic, Fire)

Lane Bros. Co., Poughkeepsie, N. Y.

Shutters (Fire-Proof)

(See Doors & Shutters, Fire-Proof.)

Shutters (Steel)

AMERICAN ROLLING MILL CO., Middletown, O. (See adv. index, end of book)

AMOS, CHAS., & CO., Detroit, Mich. (See adv. index, end of book)

Barnum, E. T. Wire & Iron Works, Detroit, Mich.

BERGER MFG. CO., Main Office & Works, Canton, O. (See adv. index & branch offices, end of book)

Cambridge Roofing Co., Cambridge, O.
CANTON ART METAL CO., Canton, O. (See adv. index, end of book)

Dickelman Mfg. Co., Forest, O.
ELLER MFG. CO., Canton, O. (See adv. index, end of book)

Gara, McGinley & Co., 23 S 17th, Phila., Pa.
KINNEAR MFG. CO., Columbus, O. (See adv. index, end of book)

MERRITT & CO., 1024 Ridge av, Philadelphia, Pa. (See adv. index, end of book)

Mesker, Geo. L. & Co. (also Doors), Evansville, Ind.
MILWAUKEE CORRUGATING CO., Milwaukee, Wis. (See adv. index, end of book)

OHIO STRUCTURAL IRON CO., Sandusky, O. (See adv. index, end of book)

Penr Metal Ceiling & Roofing Co. (Ltd.), 23d & Hamilton, Philadelphia, Pa.

Perkins Mfg. Co., St. Paul, Minn.
ROLLING STEEL SHUTTER WORKS (John McLean), 162 W 27th, New York. (See adv. index, end of book)

SMITH, F. P. WIRE & IRON CO., 100 Lake, Chicago, Ill. (See adv. index, end of book)

Steel Roofing & Stamping Works, Des Moines, Iowa

Variety Mfg. Co. (Iron & Tin Clad Window), Sacramento & Carroll av, Chicago, Ill.

WISCONSIN IRON & WIRE WORKS, 190 E Water, Milwaukee, Wis. (See adv. index, end of book)

VULCAN CO., Detroit, Mich. (See adv. index, end of book)

Youngstown Iron & Steel Roofing Co., Youngstown, O.

Shutters (Steel Rolling)

Columbus Steel Rolling Shutter Co., Columbus, O.

Cornell, J. B. & J. M. Co., 26th & 11th av, N. Y.

KINNEAR MFG. CO., Columbus, O. (See adv. index, end of book)

ROLLING STEEL SHUTTER WORKS (John McLean), 162 W 27th, New York. (See adv. index, end of book)

Variety Mfg. Co., Sacramento & Carroll av, Chicago, Ill.

WILSON, JAS. G. MFG. CO. (Salamander), Chief Office, 3 W 29th, New York, N. Y. Mills & Factory, Norfolk, Va. (See adv. index, end of book)

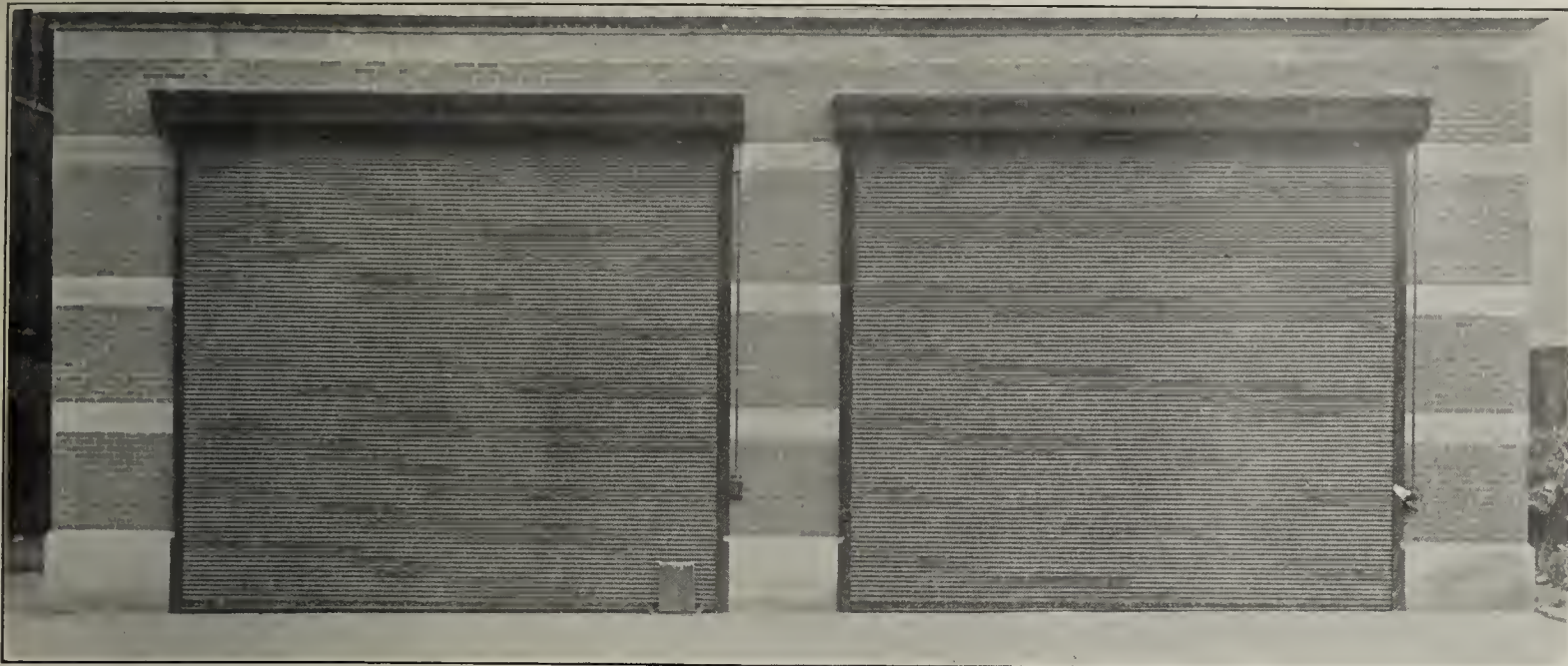
*Shutters (Wire Glass)

AMOS, CHAS. & CO., 94 W. Larned, Detroit, Mich. (See adv. index, end of book)

Shutters (Wood Rolling)

Flexiford Door & Shutter Co., Worcester, Mass.
 Peirce, W. E. & Co., Milford, N. H.

WILSON, JAS. G. MFG. CO., Chief office, 3 W 29th, New York, N. Y. Mills & Factory, Norfolk, Va. (See adv. index, end of book)



Kinnear Steel Rolling Doors and Shutters

FOR ALL CLASSES OF BUILDINGS.

FIREPROOF, DURABLE AND EFFICIENT.

The KINNEAR MFG. CO., COLUMBUS, O., U. S. A.

BOSTON

PHILADELPHIA

CHICAGO

JAS. G. WILSON MFG. COMPANY,

MAKERS OF

ROLLING STEEL and WOOD DOORS and
SHUTTERS ;

ROLLING WOOD PARTITIONS (Both Styles) ;

ENGLISH WOOD BLOCK FLOORING ;

AWNING VENETIAN BLINDS,

INSIDE VENETIAN BLINDS,

PIAZZA VENETIAN BLINDS ;

HYGIENIC WARDROBES ;

INDIVIDUAL LOCKERS.



Chief Office :

3 WEST 29th STREET,

NEW YORK CITY.

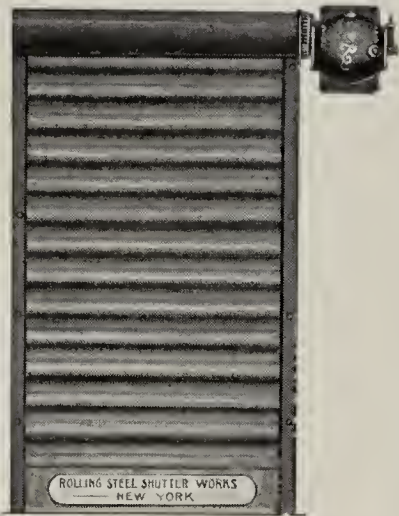
Mills and Factory : NORFOLK, VA.

ROLLING STEEL SHUTTER WORKS

Late CLARK, BUNNETT & CO.

JOHN McLEAN

The Only Original Clark Shutter Makers In This Country



ROLLING NOISELESS SHUTTERS

AND

ROLLING SELF-COILING STEEL SHUTTERS A SPECIALTY

FIRE AND BURGLAR PROOF

THE STANDARD OF EXCELLENCE

Estimates Cheerfully Furnished Contracts Promptly Executed

162-164 WEST 27th STREET, - - NEW YORK

Enameled Steel Sign Co.



12 STATE ST.

CHICAGO

ADVERTISING
WAGON
STREET NAME
STORE FRONT
BRANCH OFFICE

SIGNS

WE MAKE

SIGNS

ENAMELED, IRON AND STEEL.

TIN SIGNS, EMBOSSED

LITHOGRAPH STEEL SIGNS

CARD SIGNS, WEATHER-PROOF

FOLDED EDGE FIBRE SIGNS

In writing for prices,
state quantity, size, etc.

GOOD

GLASS
METAL
LITHOGRAPHIC
ELECTRIC

SIGNS COST NOTHING

Because **GOOD SIGNS** "**PAY FOR THEMSELVES**" many times over by **CATCHING** the **ATTENTION** and getting the **CUSTOMER'S MONEY** moving towards **YOUR POCKET**. To be **GOOD** a Sign **MUST COMMAND THE ATTENTION!** The arrangement of **COLORS, LETTERING** and **DESIGNS** so as to produce **STRIKING EFFECTS**, has been **MY LIFE STUDY**. I make

Glass Signs, Lithographed Metal Signs, Electric Signs,

in any quantity, from **ONE** to **ONE MILLION**. Write to me stating what you want to accomplish and how much you are prepared to expend and let me outline what will best suit your purpose. I make no charge for this service. You get the benefit of my experience **FREE**.

JOHN R. BURDICK

(ADVERTISING
SIGNS)

77 DEARBORN STREET
CHICAGO, ILL.

P. S.—I also make Electrical Specialties

Sickle & Mower Knife Grinders

Ajax Mfg. Co. ("Vulcan Moore"), Allegheny, Pa.
 American Seeding Machine Co., Main Office, Springfield, O.
 Chicago Wheel & Mfg. Co. (Gem & Jewell), Chicago, Ill.
 Clizbe Bros. Mfg. Co. ("Crown" Sickle), Plymouth, Ind.
 Comstock, Geo. S. (The "Lightning"), Mechanicsburg, Pa.
 Cutaway Harrow Co., Higganum, Conn.
 Empire Implement Mfg. Co. (Climax), Albany, N. Y.
 Herschel, R. Mfg. Co., Peoria, Ill.
 International Harvester Co. of America, 9 Monroe, Chicago, Ill.
 King Mfg. Co. (King), Piqua, O.
 Luther Bros. Co., "Luther" Sickle (Sickle Grinders), North Milwaukee, Wis.
 Luther, C. J. Co., "American" & "Bolen" Sickle, Sickle Grinders, Port Washington, Wis.
 Miessner Bros. & Co. (World's), Huntington, Ind.
 Novelty Mfg. Co., Rock Island, Ill.
 Osborne Plant, Auburn, N. Y.
 Racine Malleable & Wrought Iron Co. (Ross & Racine), Racine, Wis.
 Schofield & Co., Freeport, Ill.
 Webster & Perks Tool Co., Springfield, O.
 Western Implement Co. (Sickle Grinders), Port Washington, Wis.
WHITMAN & BARNES MFG. CO. ("Diamond" Bevel Wheel), Chicago, Ill. (See adv. index & branch offices, end of book)

Sickles (Mower & Reaper)

(See Knives, Mower & Reaper.)

Side Dressers for Side Files

Covel Mfg. Co., Benton Harbor, Mich.

Side Files for Saws

Covel Mfg. Co., Benton Harbor, Mich.
 Matteson Mfg. Co., 128 S Minton, Chicago, Ill.
 Port Huron Engine & Thresher Co., Port Huron, Mich.

Sidewalk Lights

(See Vault & Sidewalk Lights, Plain & Prismatic.)

Sidewalk Lights (Prismatic)

(See Glass, Prismatic.)

Sieves (Flour)

Day, J. H. Co., Cincinnati, O.
 Gilbert & Bennett Mfg. Co., Georgetown, Conn.
 Lalance & Grosjean Mfg. Co., 19 Cliff, N. Y.
 Meyers, Fred. J. Mfg. Co., Hamilton, O.
 National Mfg. Co., Worcester, Mass.
 Sprout, Waldron & Co., Muncy, Pa.
 Wickwire Bros. (also Coal), Cortland, N. Y.

Sifters (Sand)

(See Sand Sifters.)

*Sight Feeds for Oiling Devices

LUNKENHEIMER CO., General Offices and Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)
WILLIAMS, D. T. VALVE CO., 904 B'way, Cincinnati, O. (See adv. index, end of book)

Signal Car Lights

Brill, J. G. Co., 62d & Woodland av., Phila., Pa.
 Smith, Charles G., 352 Pearl, New York
 Star Headlight Co., Rochester, N. Y.

Signals

Under this heading see Sub-Classifications:

Signals (Block System)

American Railway Signal Co. (Automatic Electric Block Crossing Alarms), Cleveland, O.
 Federal Railway Signal Co., 60 Wall, N. Y. City. Works, Troy, N. Y.

GENERAL ELECTRIC CO. ("Automatic"), Schenectady, N. Y., & 44 Broad, New York

General Railway Signal Co., Rochester, N. Y.
 Kinsman Block System Co., 55 Dey, New York
 McClintock Mfg. Co., 146 E 3d, St. Paul, Minn.

Storm Railway Signal Co. (Automatic), Waterloo, Iowa

Union Switch & Signal Co. (Automatic, Electric & Pneumatic Semaphore), Swissvale, Pa.

United States Electric Signal Co., West Newton, Mass.

Signals (Distress)

Coston Signal Co., Inc., 5 Water, N. Y. City

Signals (Electric Mine)

Flint-Lomax Electric & Mfg. Co., 1400 Delgany, Denver, Col.

Ziegler Apparatus Co., 200 Summer, Boston, Mass.

Signals (Electric Railway)

American Railway Signal Co., Cleveland, O.
 American Signal Co. ("Born"), Kansas City, Mo.

Blake Signal & Mfg. Co., 246 Summer, Boston, Mass.

ENAMELED STEEL SIGN CO., 12 State, Chicago, Ill. (See adv. index, end of book)

Federal Railway Signal Co., 60 Wall, N. Y. City. Works, Troy, N. Y.

General Railway Signal Co., Rochester, N. Y.

Hall Signal Co., 25 Broad, New York, & Monadnock blk, Chicago

McClintock Mfg. Co., 143 E. 3d, St. Paul, Minn.

Storm Railway Signal Co. (Automatic Block System), Waterloo, Iowa

UNION SWITCH & SIGNAL CO., THE (Interlocking), Swissvale, Pa.

United States Electric Signal Co. (Automatic), West Newton, Mass.

United Switch & Signal Co., East Pittsburgh, Pa.

Weir Frog Co., Beech & Highland av, Cincinnati, O.

Wilson Railway Gate Co., Birmingham, Mich.

***Signals (Enameled Steel Sign)**

ENAMELED STEEL SIGN CO., 12 State, Chicago, Ill. (See adv. index, end of book)

Signals (Interlocking System)

American Railway Signal Co. (Interlocking manual & Electric), Cleveland, O.

Federal Railway Signal Co., 61 Wall, N. Y. City. Works, Troy, N. Y.

General Railway Signal Co., Rochester, N. Y.

Rowell-Potter Safety Stop Co. (Automatic), Rookery bldg, Chicago, Ill.

UNION SWITCH & SIGNAL CO., THE, Swissvale, Pa.

Signals (Motor Boat)

Berwick Boat Signal Co., P. O. Box 1367, New York City

Signals (Pneumatic)

Buda Foundry & Mfg. Co., Railway Exchange bldg, Chicago, Ill. Works, Harvey, Ill.

General Railway Signal Co., Rochester, N. Y.

UNION SWITCH & SIGNAL CO., THE ("Westinghouse" Electro Interlocking), Swissvale, Pa.

Signals (Railway Crossing)

(See also Gates, Railway Crossing.)
 (Also Railway Supplies.)

(Also Frogs, Switches, Crossings & Signals.)
 Acme Railway Signal & Mfg. Co., Peoria, Ill.

Baltimore Enamel & Novelty Co. (Enameled Steel), c Allen & Clement, Baltimore, Md.

Buda Foundry & Mfg. Co., Railway Exchange bldg., Chicago, Ill. Works, Harvey, Ill.

Eclipse Switch & Signal Co., Elmira, N. Y.

ENAMELED STEEL SIGN CO., 12 State, Chicago, Ill. (See adv. index, end of book)

General Railway Signal Co., Rochester, N. Y.

Hall Signal Co., 25 Broad, New York, & Monadnock blk, Chicago

Handlan-Buck Mfg. Co. ("Newton's"), 212 N 3d, St. Louis, Mo.

Harris Mfg. Co., Greenville, S. C.

Miller Signal Co., Monadnock blk, Chicago, Ill.

Penna. Steel Co., Steelton, Pa.; Girard bldg, Phila., Pa.

Railroad Supply Co., Bedford bldg., Chicago, Ill., and 143 Liberty, New York

Ramapo Iron Works, Hillburn, N. Y., & 26 Cortlandt, New York

Safety Train Order Signal Co., 66 B'way, N. Y.

Standard Railway Gate Co. (Electric Magnetic), Saginaw, Mich.

Taite Railway Signal Co., Coatesville, Pa.

UNION SWITCH & SIGNAL CO., THE, Swissvale, Pa.

Western Railway Signal Co., Fostoria, O.

Wilson Railway Gate Co. (Electrical & Mechanical), Birmingham, Mich.

Signals (Switch)

Barney & Smith Car Co., Dayton, O.

Buda Foundry & Mfg. Co., Railway Exchange bldg., Chicago, Ill. Works, Harvey, Ill.

Federal Railway Signal Co., 60 Wall, N. Y. City. Works, Troy, N. Y.

General Railway Signal Co., Rochester, N. Y.

Penna. Steel Co., Steelton, Pa.; Girard bldg, Phila., Pa.

Ramapo Iron Works, Hillburn, N. Y.

UNION SWITCH & SIGNAL CO., THE, Swissvale, Pa.

Signals (Train Order)

Adams & Westlake Co. (Telegraph), Ontario cor N Franklin, Chicago, Ill.

Barney & Smith Car Co., Dayton, O.

Federal Railway Signal Co., 60 Wall, N. Y. City. Works, Troy, N. Y.

Sign Flashers (Electric)

Baker Electric Co. ("Reco," "Reynolds"), 147 E. 42d, New York

Bissell, F. Co., Toledo, Ohio

Crescent Co. ("Crescent") Valparaiso, Ind.

Electric Motor & Equipment Co., 13 Beaver, Newark, N. J.

Hamblin, Jno. A. Co., Providence, R. I.

Reynolds Electric Flasher Mfg. Co. ("Reco"), 191 5th av., Chicago, Ill.

Reynolds-Dull Flasher Co., 177 Adams, Chicago, Ill.

*Signs (Applied Letters)

SALO ART METAL CO., 19 Collier, Binghamton, N. Y. (See adv. index, end of book)

Signs (Brass & Bronze)

AMOS, CHAS. & CO., 94 W. Larned, Detroit, Mich. (See adv. index, end of book)

CABARET, PAUL E. & CO., 342 W. 14th, New York. (See adv. index, end of book)

Chicago Metal Sign Co. (All Kinds for All Purposes), 28 N Canal, Chicago, Ill.

Gorham Co., Providence, R. I.

HENRY-BONNARD BRONZE CO. Sales Office, 5 & 7 E. 42d, New York, N. Y. Works, Mt. Vernon, N. Y. (See adv. index, end of book)

JACKSON, WM. H. COMPANY, 29 E. 17th (Union Square), N. Y. (See adv. index, end of book)

JONES, TREVOR F. & CO. (also Silver), 374 W. B'way, N. Y. (See adv. index, end of book)

TYLER, W. S. CO., Cleveland, O., & 11 B'way, New York. (See adv. index, end of book)

UNION EQUIPMENT AND BRONZE CO., 520 W 36th, N. Y. (See adv. outside stencil)

Van Hoven, John H. H. (Brass & Silver), 42 E. 9th, New York

WINSLOW BROS. COMPANY (also Brass & Iron). Main Office & Works, 2515 W. Harrison, Chicago, Ill. (See adv. index & branch offices, end of book)

WISCONSIN IRON & WIRE WORKS, 190 E. Water, Milwaukee, Wis. (See adv. index, end of book)

Sigms (Car)

Brill, J. G. Co. (Reversible), 62d & Woodland av., Phila., Pa.
Columbia Machine Works & Malleable Iron Co. ("Millen" Illuminated), Atlantic av. cor. Chestnut, Brooklyn, N. Y.
Creaghead Engineering Co. (Indicating), 315 Walnut, Cincinnati
Hunter Illuminated Car Sign Co., Cincinnati, Ohio
Morris, Elmer P. Co. (Illuminated, "The Hunter"), 51 Dey, New York
U. S. Electric Signal Co. ("Henderson" Illuminated), West Newton, Mass.

*Signs (Cardboard)

ENAMELED STEEL SIGN CO. (Water-proof), 12 State, Chicago, Ill. (See adv. index, end of book)

Sigms (Cast Iron)

Brown & Sharpe Mfg. Co., Providence, R. I.

Sigms (Celluloid)

Bastian Bros., Rochester, N. Y.
Beach, H. D. Co., Coshocton, O.
Ehrman Mfg. Co., 854 Old So. bldg, Boston, Mass.
Meek, The, Co., Coshocton, O.
Whitehead & Hoag Co., Newark, N. J.

Sigms (Chipped Glass)

BURDICK, JOHN R. (In Silver & Gold), 77 Dearborn, Chicago, Ill. (See adv. index, end of book)
Rawson & Evans (in Silver & Gold), 151-153 Wash'n boul, Chicago, & 458 W. B'way, New York
Suess Ornamental Glass Co., 750 Throop, Chicago, Ill.

Sigms (Cloth)

Acme Sign Printing & Mfg. Co., Dayton, O.
Bemis Bros. Bag Co., St. Louis, Mo.
Cleveland-Akron Bag Co., Cleveland, O.
Eastern Printing & Mfg. Co., Dayton, O.

Sigms (Electric)

American Electric Sign Co., 133 Summer, Boston, Mass.
AMOS, CHARLES & CO., 94 W. Larned, Detroit, Mich. (See adv. index, end of book)
A. & W. Electric Sign Co. ("A. & W."), Cleveland, Ohio
Bender-Martin Co., 173 Lafayette pl., New York
Bofinger Bros., 146 E. 42d, New York City
BURDICK, JOHN R., 77 Dearborn, Chicago, Ill. (See adv. index, end of book)
Colonial Sign & Insulator Co., Akron, O.
Comstock & Co., L. K., 114 Liberty, New York
Dawes Mfg. Co., Braddock, Pa.
Day & Night Sign Co., Easton, Pa.
Electric Carriage Call Co. (Changeable & Permanent), 328 W. 41st, New York
Electric Motor & Equipment Co. (Electrically Illuminated), 15 Beaver, Newark, N. J.
Empire Electric Sign Co., 162 E. 118th St., New York
Federal Electric Co., Lake & Desplaines, Chicago, Ill.
Federal Sign System (Electric), 317 W. 42d, New York
Gude Co., The O. J., 935 B'way, New York
Haller Machine Co., 319 S. Clinton, Chicago, Ill.
Hughes, Thos., 39 E. 9th, New York
Jackson, H. C., Electric Co. ("La Luciole"), Parkersburg, W. Va.
Kimmey Electric Light Display Co., 949 Broadway, New York City
Mason, Geo. L. & Co. ("Universal"), 51 Dey, New York
Mason Monogram Co., 280 B'way, New York
Menschen, Jos., 354 W 50th, New York
Metropolitan Engineering Co., 124 W. 42d st., New York
Opal Sign Co., 344 Broome, New York
Rawson & Evans, 151 Wash'n boul., Chicago, Ill., & 458 W. B'way, New York
Reynolds Electric Flasher Mfg. Co. ("Reco" Flashers), 191 5th av., Chicago, Ill.
Rice, Geo. H. & Co., Flatbush av. & 5th av., Brooklyn, N. Y.

Valentine Electric Sign Co., Atlantic City, N. J.
Transparent Electric Sign Advertising Co. 313 Central av., Brooklyn, N. Y.

Sigms (Enameled Iron)

Baltimore Enamel & Novelty Co., Allen & Clement, Baltimore, Md.
BURDICK, JNO. R. (Steel), 77 Dearborn, Chicago, Ill. (See adv. index, end of book)
Caesar Bros., 112 Fulton, New York
Climax Supply Co. ("Climax Sign Posts & Signs"), Marquette bldg, Chicago, Ill.
ENAMELED STEEL SIGN CO. (Steel), 12 State, Chicago, Ill. (See adv. index, end of book)
Ingram & Richardson Mfg. Co., Beaver Falls, Pennsylvania
Leonard, Wark Electric Co., Bronxville, N. Y.
Nelke, L. D. (also Tin, etc.), 12 Jay, New York
Taylor, A. V. & Co.

Sigms (Enameled Iron Station)

Baltimore Enamel & Novelty Co., c Allen & Cement, Baltimore, Md.

Sigms (Etched Metal)

Abbott, W. H., 1263 B'way, N. Y. City
Dayton Stencil Works, Dayton, Ohio
ELECTRO CHEMICAL ENGRAVING CO. (Inc.), 450 19th, Brooklyn, N. Y. (See adv. index, end of book)
Hausermann Metal Mfg. Co., E 122d, New York City
SALO ART METAL CO., 19 Collier, Binghamton, N. Y. (See adv. index, end of book)

*Signs (Folded Edge Fibre, for Freight Cars)

ENAMELED STEEL SIGN CO., 12 State, Chicago, Ill. (See adv. index, end of book)

Sigms (Glass)

Asbury Glass Sign Co., 43 John, N. Y.
BURDICK, JOHN R., 77 Dearborn, Chicago, Ill. (See adv. index, end of book)
Denzi & Phillips, 24 Dey, New York
Empire Ornamental Glass Co., 42 Renwick, New York
Herrlein, Adolf P., 97 Hudson, New York
Jones Decorative Glass Co., Hudson av. & Concord, Brooklyn, N. Y.
Mansfield & Co., 158 Chambers, New York
Nelke, L. D., 12 Jay, New York
Rawson & Evans, 151 Washington boul, Chicago, Ill., & 458 W. B'way, New York
Twced & Rau Co., 208 W Madison, Chicago
Western Sand Blast Mfg. Co., 21st & Marshall boul, Chicago
Wunder, J. & Co., 192 Washington, Chicago

Sigms (Glass Advertising)

BURDICK, John R., 77 Dearborn, Chicago, Ill. (See adv. index, end of book)
Rawson & Evans, 151 Washington boul, Chicago, Ill., & 458 W. B'way, New York

Sigms (Illuminating)

AMOS, CHARLES & CO., 94 W Larned, Detroit, Mich. (See adv. index, end of book)
Hughes, Thomas, 51 E 9th, New York
MERRITT & CO., 1024 Ridge av, Phila., Pa. (See adv. index, end of book)

Sigms (Litho. Metal)

Beach, H. D. Co., Cohocton, Ohio
Kaufman & Strauss, 124 Fifth av, N. Y. City
Meek Co., The, Cohocton, Ohio
New York Metal Ceiling Co., 537 W. 24th, New York City
Niagara Litho. Co., Buffalo, N. Y.
Sentenne & Green, 150 Nassau, New York City
Shonk, Chas. W., 253 B'way, New York

Sigms (Metal, Etc.)

American Can Co., 11 B'way, New York
Chicago Metal Signs Co. (of all Kinds of Metals), 28 N Calan, Chicago, Ill.
ENAMELED STEEL SIGN CO., 12 State, Chicago, Ill. (See adv. index, end of book)

Ingraham-Richardson Mfg. Co. (Blue & White Enameled Iron Street Names, etc.), Beaver Falls, Pa.
SALO ART METAL CO. (Metal Etched, Engraved & Applied Letters), 19 Collier, Binghamton, N. Y. (See adv. index, end of book)

TYLER, W. S. CO., Cleveland, O., & 11 B'way, New York. (See adv. index, end of book)

Van Hoven, John H. H. (Brass & Silver), 42 E 9th, New York
Western Sand Blast Mfg. Co., 21st & Marshall boul., Chicago, Ill.

WISCONSIN IRON & WIRE WORKS, 190 E Water, Milwaukee, Wis. (See adv. index, end of book)

*Signs (Metal Engraved)

SALO ART METAL CO., 19 Collier, Binghamton, N. Y. (See adv. index, end of book)

Sigms (Muslin)

Acme Sign Printing Co., Dayton, O.
American Mfg. Concern, Jamestown, N. Y.
Bemis Bros. Bag Co., St. Louis, Mo.
Cleveland-Akron Bag Co., Cleveland, O.
Eastern Printing & Mfg. Co., Dayton, O.
Geraghty & Co., 61 LaSalle, Chicago
Globe Sign & Poster Co., Akron, O.
Nelke, L. D. (also Oilcloth), 12 Jay, New York
Parker & Granville, Ithaca, N. Y.
Zero Marx Sign Works, 160 E Superior, Chicago, Ill.

Sigms (Rope Fibre)

Globe Sign & Poster Co. (and Clothine), Akron, O.

*Signs (Steel)

ENAMELED STEEL SIGN CO. (Enameled Lithograph), 12 State, Chicago, Ill. (See adv. index, end of book)

Sigms (Street)

American Steel House Co. (Steel), 796 11th av, New York
Baltimore Enamel & Novelty Co. (Enameled Iron Street Names), Allen & Clement, Baltimore, Md.
ENAMELED STEEL SIGN CO. (Street Name), 12 State, Chicago, Ill. (See adv. index, end of book)
Ingraham-Richardson Mfg. Co. (Blue & White Enameled Iron, Street Names, etc.), Beaver Falls, Pa.
Roberts, D. E., Racine, Wis.

Sigms (Talking)

Electric Carriage Call Co., 328 W. 41st, New York
Electric Motor & Equipment Co., Newark, N.J.

*Signs (Tin)

ENAMELED STEEL SIGN CO. (Embossed), 12 State, Chicago, Ill. (See adv. index, end of book)

Sigms (Wagon)

ENAMELED STEEL SIGN CO., 12 State, Chicago, Ill. (See adv. index, end of book)

Sigms (Wire)

Adams Steel & Wire Works, Joliet, Ill.
AMOS, CHAS. & CO., 94 W Larned, Detroit, Mich. (See adv. index, end of book)
BIGELOW, CHENEY WIRE WORKS, Springfield, Mass. (See adv. on following page)
BOLLES, J. E. IRON & WIRE WORKS, 4th av & Porter, Detroit, Mich. (See adv. index, end of book)
BUFFALO WIRE WORKS CO., 316 Terrace, Buffalo, N. Y. (See adv. index, end of book)
CINCINNATI MFG. CO., 1243 W 6th, Cincinnati, O. (See adv. index, end of book)
COLUMBIA IRON & WIRE WORKS CO., Canton, Ohio. (See adv. index, end of book)
ESTEY WIRE WORKS CO., 59 Fulton, New York. (See adv. index, end of book)
Kokomo Fence Machine Co., Kokomo, Ind.

TAYLOR & DEAN, 205 Market, Pittsburg, Pa. (See adv. index, end of book)
TYLER, W. S. CO., Cleveland, O., & 11 B'way, New York. (See adv. index, end of book)
WISCONSIN IRON & WIRE WORKS, 190 E Water, Milwaukee, Wis. (See adv. index, end of book)

Signs (Wood)

Nelke, L. D. (Painted), 12 Jay, New York

*Silex Linings for Tube Mills

SMITH, F. L. & CO., 39 Cortlandt, New York. (See adv. index, end of book)

Silica Mfrs.

Atlas, M. & M. Co., Lincoln, N. J., & 82 Pearl, New York
 Babcock, H. H., Mystic, Conn.
 Bridgeport Wood Finishing Co. (Lithowite), New Milford, Conn.
 Central Silica Co., Fortville, Ind.
DAVIDSON, JAS. H. (Inc.), 239 Front, New York. (See adv. index, end of book)
 Grasilli Chemical Co., Cleveland, O., & 63 Wall, N. Y.

Hoosac Co., North Adams, Mass.
 Nevins, Samuel Co., 109 S 2d, Phila., Pa.
 Ohio Marble Co., Piqua, O.
 Salomon, L. A. & Bro., 216 Pearl, New York.
 Silver Star Mfg. Co., Battle Creek, Mich.

Silicate of Soda

General Chemical Co., 135 Adams, Chicago, Ship from Hegewisch, Ill.
 Philadelphia Quartz Co., 121 S 3d, Phila., Pa.
 St. Louis Chemical Co., St. Louis, Mich.

*Single Phase Railway System

WESTINGHOUSE ELECTRIC MFG. CO., Pittsburg, Pa. (See adv. index & branch offices, end of book)

Singletrees, Doubletrees & Whiffletrees

Adams, E. B. & Son, Racine, Wis.
 Automatic Yoke Co. (Single Trees, etc.), Indianapolis, Ind.
 Avery, B. F. & Sons, Louisville, Ky.
 Campbell & Dann Mfg. Co., Tullahoma, Tenn.
 Collins, Hilton, Louisville, Ky.
 Empire Plow Co. (Steel), Ensley, Ala., & Cleveland, Ohio
 Harris Mfg. Co. (Singletrees), Johnson City, Tenn.
 Hartwell Bros. (Singletrees), Chicago Heights, Ill.
 Howland Mfg. Co. (Whiffletrees, etc.), Pontiac, Mich.
 Lack Single Tree Co., Paducah, Ky.
 Missouri Malleable Iron Co. (Singletrees & Doubletrees), E. St. Louis, Ill.
 Pioneer Pole & Shaft Co., Akron, O.

Pittsburg Tubular Steel & Whiffletree Co., Ridge av., Pittsburg, Pa.
 Racine Malleable & Wrought Iron Co., Racine, Wis.
 Tanner, D. F., Holland, N. Y.
 Todd Mfg. Co., New Albany, Ind.
 Fowler & Sullivan Mfg. Co., Rome, Ga.
 Von Behren Mfg. Co., Evansville, Ind.

Singletrees (Hay Hoisting)

Louder Machinery Co., Fairfield, Iowa
 Myers, F. E. & Bro., Ashland, O.
 Porter, J. E. Co., Ottawa, Ill.

Sink Backs

Lalance & Grosjean Mfg. Co. (Seamless Wrought Steel), 19 Cliff, New York

*Sinks (Copper & German Silver)

BADGER, E. B. & SONS CO., 75 Pitts, Boston, Mass. (See adv. index, end of book)

Sinks (Porcelain)

(See Bath Tubs, Porcelain)

Sinks & Trays

(See also Bath Tubs, various kinds; also Laundry Tubs, various kinds)

Alberene Stone Co. (Soapstone), 223 E 23d, New York, & 260 N Clinton, Chicago, Ill.
 Allen's, S. Sons (Slate), Fair Haven, Vt.
 American Porcelain Co. (Porcelain Sinks), New Brighton, Pa.
 Auld & Conger (Soapstone), 262 Prospect, Cleveland, O.
 Barber Mfg. Co. (Cast Iron, White Enameled, etc.), Ashtabula, O.
 Blacklock Foundry Co. (Cast Iron, Stamped), S Pittsburg, Tenn.
 Brian Pottery Co. (Porcelain), Trenton, N. J.
 Brig, Henry (White Porcelain), 56 Wallabout, Brooklyn, N. Y.
 Central Foundry Co. (Cast Iron), 116 Nassau, New York
 Henn Mfg. Co. (Kitchen & Slop Sinks), St. Charles, Ill.
 Graham, Charles Chemical Pottery Wks. (White Porcelain & Brown Vitrified), 986 Metropolitan av., Brooklyn, N. Y.
 Hercules Iron & Supply Co. (Cast Iron), Anniston, Ala., & 427 Commercial, Boston, Mass.
 Horner Sanitary Mfg. Co., 121 & 123 N 6th, Philadelphia, Pa.
 Humphreys Mfg. Co. (Cast Iron Porcelain Enameled), Mansfield, O.
 Illinois Marble Co. (Slate), Edwardsville, Ill.
 Iron City Sanitary Mfg. Co. (Enameled Iron), 238 3d av., Pittsburg, Pa.
 Iron Clad Mfg. Co. (Sheet Steel), 204 Varet, Brooklyn, N. Y.
 Kilbourne & Jacobs Mfg. Co. (Wrought Steel), Columbus, O.
 Kohler, J. M. Sons Co. (Enameled Iron), Sheboygan, Wis.
KOVEN, L. O. & BRO., 50 Cliff, New York. (See adv. index, end of book)

Lalance & Grosjean Mfg. Co. (Seamless Wrought Steel, "L. & G."), 19 Cliff, New York

McCrum-Howell Co. (Enameled Iron), 46 E. 20th, New York, N. Y.

McVay & Walker (Enameled), Braddock, Pa.
 Maddock, Thomas Sons Co. (Earthenware), Trenton, N. J.

MEADOW BROOK SLATE CO. (Slate Sinks), Slatington, Pa. (See adv. index, end of book)

Minns Sink & Specialty Co. (Sinks & Tubs Combined), 349 Court, Brooklyn, N. Y.

Moline Pump Co. (Cast Iron), Moline, Ill.
 Monson Consolidated Slate Co. ("Slate"), Bath, Me.

Mott, J. L., Iron Works (Porcelain & Iron Enameled), 118 5th av., New York

Murdock-Shaw Co. (Marble Composite), Boston, Mass.

New York Slate Works (Slate), 493 E 138th, N. Y.

National Soapstone Co. (Soapstone Sinks & Urinals), 385 1st av., New York
 Norcross Co. (Euclid Stone), Cleveland, O.

Northwestern Foundry & Supply Co. (Cast Iron Slop Sinks), Orleans nr Grand boul, Detroit, Mich.

Perth Amboy Ceramic Co. (Ceramic), Perth Amboy, N. J.

Ronalds & Johnson Co. (Copper), 43 Bocrum pl, Brooklyn, N. Y.

RUMSEY & CO., Ltd., (Cast Iron), Seneca Falls, N. Y. (See adv. index & branch offices, end of book)

Scotch Hill Slate Co. (Slate), Fair Haven, Vt.
 Bessemer bldg., Pittsburg, Pa.

Standard Sanitary Mfg. Co. (Enameled Iron), Pittsburg, Pa.

STEIN, HENRY (Mfr. Agt.) (Enameled Iron), 48 Cliff, N. Y.

Swett, A. L. Iron Works (Cast Iron), Medina, N. Y.

Trageser's, Jno., Steam Copper Works (Copper), 447 W 26th, N. Y.

Trenton Potteries Co. (Earthenware), Trenton, N. J.

United States Sanitary Mfg. Co. (Enameled Iron), Arrott hldg., Pittsburg, Pa.

Vermont Unfading Green Slate Co. (Slate), Fair Haven, Vt.

Weiskittle, A. & Son, Aliceanna & Washington, Baltimore, Md.

Wolff, L., Mfg. Co. (Cast Iron, Steel, Porcelain Lined, Gray, Enameled, Slate & Soapstone), 117 W Lake, Chicago, Ill., & Denver, Colo.

*Sirens for Fog, Fire & Factory Signals

BROWN, A. & F. CO., 25 Dey, New York. Works, Elizabethport, N. J. (See adv. index, end of book.)

*Sirens (Steam)

BROWN, A. & F. CO., ("F. Brown Self-Acting Fog, Fire, Factory Signals", 25 Dey, New York. Works, Elizabethport, N. J. (See adv. index, end of book)
SCHAEFFER & BUDENBERG MFG. CO., Foxboro, Mass. (See adv. index & branch offices, end of book.)

CHENEY BIGELOW WIRE WORKS,

MANUFACTURERS OF

WIRE SIGNS.

SEND FOR CATALOGUE.

Elevator Enclosures and Cabs.

Office Railings, Etc.

ESTABLISHED 1842.

Springfield, Mass.

INCORPORATED 1887.

Sizers (Wood Turners')

Kraeuter & Co., Newark, N. J.

Sizing (Decorators')

Manhattan Color Works (Manhattan Alum Size),
197 Amsterdam av, New York

*Sizing for Whitewash

GROSCHÉ, BRUNO & CO., 30 Old Slip,
New York. (See adv. index, end of book)

Skate Mfrs.

Barney & Berry (Ice), Springfield, Mass.
Chicago Roller Skate Co. (Roller, 3 Wheels),
Chicago, Ill.
Cycle Skate & Sporting Goods Co. (Pneumatic
Roller), 37 Park, New York, N. Y.
Henley, M. C. (Ice & Roller), Richmond, Md.
Lowentraut, R. Mfg. Co. (Ice), Newark, N. J.
Martin Skate Co. (Folding), Old South bldg,
Boston, Mass.
Peck & Snyder (Ice), 132 Nassau, New York,
N. Y.
Raymond Skate & Bicycle Co. (Ice), Charles-
town, Boston, Mass.
Richardson Ball Bearing Skate Co. (Pneumatic
Roller), Chicago, Ill.
Schoverling, Daly & Gales (Ice), 302 B'way,
Union Furnace Mfg. Co. (Ice), Union Furnace,
Pa.
Union Hardware Co. (Ice & Roller), Torrington,
Conn.
Winslow, Samuel Skate Mfg. Co. (Ice &
Roller), Worcester, Mass.

Skins (Wagon)

American Skein & Foundry Co. (Steel), Racine,
Wis.
Illinois Iron & Bolt Co. (Cast & Steel), Car-
pentersville, Ill.
Schreyer, G. (Steel), 210 W. Broad, Colum-
bus, O.

Skewers (Steel Meat)

Brewer Bros., 614 Filbert, Phila., Pa.
Landers, Frary & Clark, New Britain, Conn.
McVay & Riddell Mfg. Co., Minneapolis, Minn.

Skids

Diamond Iron Works, Minneapolis, Minn.
Farmers' Handy Wagon Co., Saginaw, Mich.
Kilbourne & Jacobs Mfg. Co., Columbus, O.
Lansing Wheelbarrow Co., Lansing, Mich.
Zering, H. Mfg. Co., Cincinnati, O.

Skips (Mining)

ALLIS-CHALMERS CO. (Dumping &
Hoisting), Milwaukee, Wis. (See adv. in-
dex & branch offices, end of book)
Cyclopean Iron Wks. Co., Jersey City, N. J.
Globe Iron Works (Inc.) (Ore & Water), Stock-
ton, Cal.
Kilbourne & Jacobs Mfg. Co. (Steel), Colum-
bus, O.
KOPPELL, ARTHUR CO., 68 Broad, New
York. (See adv. index & branch offices,
end of book)
Leyner, J. Geo., Engineering Works Co., Lit-
tleton, Colo.
Power & Mining Machinery (Ore & Water),
52 William, New York. Works, Cudahy,
Wis.
Truax Mfg. Co., Denver, Colo.
Wellman-Seaver-Morgan Co., Cleveland, O.
WIENER, ERNST CO., 68 Broad, New
York. (See adv. index, end of book.)

Skips (Stone or Concrete)

Kilbourne & Jacobs Mfg. Co. (Steel), Colum-
bus, O.
Parker Hoist & Machine Co., 971 N Fran-
cisco av, Chicago, Ill.
White, Robt. Engineering Wks., ft. of Colum-
bia, Brooklyn, N. Y.
WILLIAMS, G. H. CO., 1513 Rockefeller
bldg, Cleveland, O. (See adv. index, end
of book)

*Skylight Lift

BICKELHAUPT, GEO., SKYLIGHT
Works, 243 W. 47th, New York. (See
adv. index, end of book)

Skylight Ventilating Apparatus

(See also Ventilating Apparatus for Green-
houses & Buildings)

American Skylight & Iron Works, 221 Ran-
dolph, Jersey City, N. J.
DROUVE, G. CO. ("Lovell") 40 Tulip,
Bridgeport, Conn. (See adv. index, end of
book)
Enterprise Mfg. Co. (Automatic), Newburgh,
N. Y.
Howard, S. I. (Automatic Lift), Worcester,
Mass.
National Ventilating Co., 1 Madison av, New
York
Ormsby, E. A., 10 Thacher, Boston, Mass.
Quaker City Machine Co. (The Evans, Rich-
mond, Ind.
Weathered Co., Orient & West End avs., Jer-
sey City, N. J.

*Skylight Wire Glass

MISSISSIPPI WIRE GLASS CO., 277
B'way, N. Y., & St. Louis, Mo. (See adv.
index, end of book)

Skylights

(See also Cornices, Galvanized Iron, etc. Also
Roofers & Tinnners.)

ALABAMA.

BIRMINGHAM—Spiro, S.
Wheelock, Geo. F. Co.

CALIFORNIA.

PASADENA—Munger & Munger Co.
SAN FRANCISCO—Forderer Cornice Works,
269 Potrero av.
Finestein, Hy., 1866 Howard
Cordt, W., Cornice Works, 150 1st
Jackson, P. H. Co., 228 1st

COLORADO.

DENVER—Fair, Charles W. Cornice Works Co.,
Kessler, Fred, 2708 Larimer 1809 Blake
Penn Metal, Ceiling & Roofing Co., 3060
Newton
Wahlgren, Jno. A., 1933 Curtis

CONNECTICUT.

BRIDGEPORT—Bridgeport Cornice Works,
227 John
DROUVE, G. CO. ("Anti-Pluvius"), 40
Tulip. (See adv. index, end of book.)
Hurley, Jas. J., 606 E. Main
Kirk, Wm. P., 360 Fairfield av.
Mills, L. H., 32 Middle
Reilly, J., Jr., 283 State
Schwing, John, Corp., 863 Wood av.
HARTFORD—Beseman & Bostwick, 44 Ann
Stelling, Frederick W., 99 Franklin
MERIDEN—Griswold, Richmond & Glock Co.
NEW HAVEN—Bradley Co., 158 Orange
Buckingham, Routh Co., 151 Court
Corbett, T. W., 29 Broadway
Curtiss & Pierpont Co., 272 Elm
Dorman & Cugell, 167 Congress av.
Perry, Hy. M., 218 George
Rourke Bros. Co., 834 Grand av.
Sheahan & Groark, 285 State
WATERBURY—Barlow Bros. Co., 63 Grand
Disley, William T. (Inc.), 276 Bank
Weyand, Henry Co. (Inc.), 16 Jefferson

DELAWARE.

WILMINGTON—Wilmington Cornice Works,
501 E 11th

DISTRICT OF COLUMBIA.

WASHINGTON—Beck, Jos. F., 425 K, n w
Giclas, H. J., 113 4½, s w
Hulse, Edgar J., 321 13th, n w
Stockstill, D. W. & Co., 211 12th, n w
Whyte, W. M., 306 13th, n w
Wolfsteiner, O. L. Co., 1315 W, n w

GEORGIA.

ATLANTA—Dowman-Dozier Mfg. Co., 20 Trin-
Warlick & Kennedy Mfg. Co. ity av

ILLINOIS.

BRADLEY—Watson, Jas. H. Co. (Inc.)
CHICAGO—Armbruster, Louis, 767 Lincoln av.
BERGER MFG. CO., 40 Dearborn.
(See adv. index, end of book)
Bremer & Bielenberg, 1136 W 13th
Burkhardt, G. Mfg. Co., 940 N Clark
Clasen, E. L. & Co., 3114 Shields av
Copelin, T. E., 51 N State
Dauchy Iron Works (Iron Frame), 84 Illi-
Descazaux, Bertrand, 1752 W 22d nol
Erickson, Jno. T., 4430 Lasalle
Farwell Cornice Co., 145 Lasalle
Griffith Cornice Works, 1716 Wabash av
Gross, Geo. M., 1445 State
Illinois Roofing & Cornice Co., 219 W
Jaeger, Fred J. C., 571 W 17th Kinsey
Jensen, C. E., 1218 W North av
Knisely Bros., 28th pl & 5th av
KNISELY, H. C. CO., 273 S Canal.
(See adv. index, end of book)
Krefting, Edw., 117 W Van Buren
Kuder, C. V. Co., 5315 Wentworth av
Lang, Wm., 300 Warsaw av
Liddle, Robert, 2645 State
McFARLAND, J. C. & CO., 27th &
5th av. (See adv. index, end of book)
McIlroy-Jennings Cornice Works, 1519 State
McIver, Evander, 3251 Cottage Grove av
Miller, Jas. A. & Bro., 136 S Clinton
Perkinson & Brown, 113 N Lincoln
Peter, Jno., 632 N Wood
Purdy & Cauble, 800 W 63d
Richards & Kelly Mfg. Co. (Iron Frames),
389 23d
Rysdon, E. A. & Co., 627 W 41st
Slavik & Co., 425 Blue Island av
Spiess, Edw., 76 Orchard
Sykes Steel Roofing Co., 112 W 19th pl.
Universal Cornice Works, 970 S Troy
Voigtman, Frank Cornice Co., 129 N Frank-
Wagner Bros., 1350 Diversey boul lin
Wallace, Wm. & Sons, 88 N Wells
Yeldham & Keusder Co. (Metal), 269 W
Vanburen

GALESBURG—Galesburg Cornice Works
KANKAKEE—Reuter, Henry
LA SALLE—Camenish, G. S.
MOLINE—Willis & Sons Co.
PEORIA—Bushnell, A. A. & Son, 1317 S Wash-
Hunter & Strehlow, 114 S Adams ington
Johnson, Charles Hardware Co., 2023 S
Adams
Kellerstrass & Hierspiel, 1926 S Adams
Meyer, F. & Bro. Co., 305 Gallatin
Peoria Roofing Co., Maple & Forsythe
Wilson, R. L. & Co., 3017 S Adams
QUINCY—Berghofer & Ohncmus, 510 Jersey
ROCKFORD—Drake Hardware Co.
Martin, Alfred & Co.
SPRINGFIELD—Robinson Henson Co.
STERLING—Taylor, F. R. & Co.
STREATOR—Powers & Williams

INDIANA.

EVANSVILLE—Lohse, H. Co.
Mesker, Geo. L. & Co.
FORT WAYNE—Gerding & Aumann Bros., 115
Wallace
Welch, J. H. & Sons, 190 Calhoun
INDIANAPOLIS—Ensey, Orvis B., c 15th & Il-
Gardner, Jos., 37 Kentucky av linois
Hawkins, Rollyn Co., 326 E Market
Humphreys & Sargent, 124 E Court
INDIANAPOLIS STEEL ROOFING &
Corrugating Co., Indianapolis, Ind. (See
adv. index, end of book)
McWorkman, Willard, State Life Bldg.
Off, Chris. & Co., 5 N New Jersey
Pursell, Peter M, Mfg. Co., 702 Beecher
MARION—Hollinger, M. G. & Co.
Hollinger, M. G. & Co.
SOUTH BEND—Lauber & Weiss
FERRE HAUTE—Smith's, C. C. Sons Co., 303
Wabash av
VINCENNES—Vincennes Iron Gal. Works.

IOWA.

CEDAR RAPIDS—Cedar Rapids Cornice
Works, 320 2d av.
Grissel, J. P. Cornice Co., 115 1st
COUNCIL BLUFFS—Ghahli-Peterson Co.
DAVENPORT—Hipwell, Chas. G.
Reimers, P. A.
DES MOINES—Clark, J. D. Co., 1820 Wash-
Fischer Bros., 714 Locust ington av
Kurtz, L. H. Co., 312 Walnut
St. John & Barquist Co., 418 8th

DUBUQUE—Klauer Mfg. Co., 1351 Iowa
IOWA CITY—Maresh Bros.
OSKALOOSA—Wells, Watts & Stump
WATERLOO—Taft, C. W.

KANSAS.

ATCHISON—Walcott, H. C.
NEWTON—Bergh, Wm.
TOPEKA—Van Dorp, Louis, 828 Kansas av.

KENTUCKY.

COVINGTON—Glaser, Wm. A. Roofing & Cornice Works
Snyder, W. G. Co., 11 Pike
LEXINGTON—Bitterman, Edw. & Son
LOUISVILLE—Heartick, E. G., 1308 Preston
Louisville Cornice & Roofing Co., 226
Smith, Geo. L., 515 1st 10th
Wagner, J. F. & Sons, 1375 7th
Wuiff, W. C. & Co., 603 E Jeff'n
NEWPORT—Newport Cornice Co., 521 Monmouth
Rust, Lawrence & Son, 909 Monmouth
OWENSBORO—Southern Foundry Co.

LOUISIANA.

NEW ORLEANS—Eichorn & Dendinger, 931 Tchoupitoulas
Louisiana Cornice Works, 1718 Tulane av
New Orleans Roofing & Metal Works, 926 Lafayette

MAINE.

LEWISTON—Stetson, J. H. Co.
PORTLAND—Hollivan & Parker, 56 Cross
Hutchinson & Cain, 438½ Fore
Rowe, Jno. H., 229 Federal
Scott, Wm. H. Co., 29 Union

MARYLAND.

BALTIMORE—Bartlett, Hayward & Co., Continental bldg
Clifton Cornice & Skylight Works, 427 N
Fingles, W. A., 1533 Maryland av High
Hetzell, Jno. G. & Son, 225 N Howard
Kohlhepp, A., 406 N Howard
Lenderking, P. H. Jr., Dillon & Patuxent
Northwestern Cornice Works, 1506 Penna av
Pruden, C. D. Co., Warner & Dock
Vaile & Young, 216 N Calvert
Ward, Wilbur F., 20 W Platt
Wilhelm, J. F., 798 N Carey
Zimmers, A. M., 1808 Frederick av

MASSACHUSETTS.

BOSTON—Ames, Ginty & Rust, 101 Tremont
Anderson, C. & Co., 41 Way
BADGER, E. B. & SONS CO., 75 Pitts.
(See adv. index, end of book)
BERGER MFG. CO., 112 Bedford.
(See adv. index, end of book)
Boston Cornice & Skylight Co., 43 Bristol
Eagle Cornice & Skylight Works, 192
Finkelstein, M., 37 Spring Charles
Forrest, Alfred W., 464 Harrison av
Gulesian, M. H. Co., 16 Waltham
Hicks, S. D. & Son, 17 Bowker
Hoffman, E. S., 642 Wash'n, Dor.
Jeffers, Wm., 77E Joy
Lamont, J. G., 30 Beverly
Marley Bros., 19 Wareham
Mayberger, Edw. F., 1 Willow Park
Meade Roofing & Cornice Co., 683 Atlantic av
Mills & Moore, 35 Bradford
Pemple, Fredk., 1462 Columbus av
Pemple, Geo. C., 27 Eustis
Raymond, Jno. B. & Co., 48 India
Smith, A. & Co., 14 Oxford terrace
Union Cornice Co., 7½ Appleton
Van Noorden, E. Co., 944 Mass. av
Williams & Poor, 33 Haverhill
CAMBRIDGE—Douglass, Geo., 266 Prospect
FALL RIVER—Hughes, J. T., 140 3d
FITCHBURG—Jennison Plumbing So.
HOLYOKE—Frederich, E. Hugo.
LOWELL—Cushing, Daniel & Co., 398 Middlesex
Mack, W. A. Co., 25 Chattuck
LYNN—Bee Jno. D. & Sons
NEW BEDFORD—Wood, Brightman & Co.
QUINCY—Translucent Fabric Co. (Fableum)
SALEM—Eklund, Victor
Salem Heating & Metal Co.
SPRINGFIELD—Atwater, E. C. & Co., 21 Taylor
Pratt, H. J. & Co., 97 Dwight
Wilson, Robt., 341 Worthington

WORCESTER—Barnard, Geo. A., 74 Prescott
McNally, D. E. & Co., 15 Houghton
New England Steel Roofing Co., 274 Main

MICHIGAN.

BATTLE CREEK—Battle Creek Furnace & Roofing Co.
DETROIT—Bertling, Paul C., 344 Grand River av
BURTON, W. J. CO., 164 W Larned.
(See adv. index, end of book)
Candler, J. D. & Co., 177 High, E
City Cornice & Furnace Co., 802 Grand
Dancy & Co., 429 6th River av
Detroit Cornice & Slate Co., 145 St. Antoine
Eagle Cornice & Roofing Co., 959 Fort W.
Hines, H. C. & Co., 354 Humboldt av
Howie Roofing Co., 374 4th av
Hutton, Robt. & Co., 112 Fort, E
Lewis, Hy. B., 45 Jos Campau av
Lupton's, David, Sons Co., 1315 3d av, Detroit, Mich.
Orth, Adam J., 166 Hastings
Pudrith & Candler, 76 Brush
Sexauer, Geo. J., 218 Wilkins
Union Sheet Metal Works, 831 Riopelle
Wrench, C. E., 200 Beaubien
GRAND RAPIDS—Grand Rapids Sheet Metal & Roofing Co., Louis, c. Campau
Hopson, W. C. & Co., 25 Campau
Reynolds, H. M. Roofing Co., Louis & Campau
Sokup, F. J., 121 S Front
Weatherly Co., 97 Pearl
JACKSON—Barrett & Daly
McGraw & Crone
KALAMAZOO—Kalamazoo Cornice Works
SAGINAW—Jacobi, Alexander, 809 Genesee av

MINNESOTA.

DULUTH—Burrell & Harmon, 18 W 1st
Deetz & Co., 108 W 1st
Duluth Corrugating & Roofing Co.
Helbing, L. R.
Hollihan & Milostan
MINNEAPOLIS—Crittenden Roofing & Mfg. Co., 706 S 5th
Minneapolis Roofing & Cornice Works, 403 6th av, S
National Roofing & Cornice Co., 1412 S 7th
Northwestern Roofing & Cornice Works, 1113 S 5th
Seiden & Wishart, Western av & 11th
Stremel Bros. Roofing & Cornice Co., 1215 Wash'n av, N
Thompson & Wilson, 516 Central av
ST. PAUL—Finn, Thos., 468 St. Peter
Griffin & Boehme, 121 University av
Lefebvre-Deslauriers Roofing & Cornice Co., 26 8th
Minnesota Roofing & Cornice Works, 135 12th
St. Paul Roofing, Cornice & Ornament Co., Water c Wabasha
Scribner-Libbey Co., 219 W 5th
WINONA—Giese, A. O.
Magnus & Wilkens

MISSOURI.

CAPE GIRARDEAU—Vogel, W. H.
KANSAS CITY—Kornbrodt, C. T., 408 W 6th
Martz & Roebber, 408 W 6th
Ritzler, J. A. Cornice & Ornament Co.
Sick, W. F., 2719 E 15th 600 W 5th
Stoeltzing Stove & Hardware Co., 1605 Grand av
Vance, R. W. Sheet Metal Works, 1520
Vanstone, Walter, 1710 Walnut Walnut
Weis, Henry Cornice Co., 1811 Wyandotte
MOBERLY—Kansteiner A. Mrs. Ben
Stauffer, P. & Co.
ST. JOSEPH—Seaman & Schuske, 1604 Frederick av
Wehrman, Wm., 119 N 2d
ST. LOUIS—BERGER MFG. CO., 623 N Main. (See adv. index, end of book)
Blohm, Chas. H., 1836 S 12th
Gerock Bros. Mfg. Co., 1252 Old Manchester rd
Hiller, Chas., 4579 Easton av
Marx & Neun Stove & Plumbing Co., 1800
Mesker Bros., 421 S. 6th S 11th
Mungenast, Jos. & Bro., 3217 Meramec
Murphy, E. & Co., 3727 Easton av
Sydow, John, 7828 S. B'way
Tiernan, Luke, 1019 Chestnut
Von-der-Au & Cluss Mfg. Co., 2404 S. Jefferson av
Wand & Niehaus, 3008 Kossuth av
Zacharias, Wm., 1209 Park av

MONTANA.

HELENA—McKinnon, H. A., 405 N Main
Mitchell, John, 352 N Main

NEBRASKA.

JRAWFORD—McNair, Robert
LINCOLN—Gaiser Bros.
OMAHA—Carter, R. L., 1724 St. Mary's av

NEW HAMPSHIRE.

MANCHESTER—Lawson, H. J.

NEW JERSEY.

BAYONNE—Devanney, J. J., 297 Av D.
CAMDEN—Klosterman Bros. Co., 1016 B'way
Metallic Mfg. Co.
ELIZABETH—Elizabeth Cornice Works
Hoffman, L. A. & Son
HOBOKEN—Dorsett, T. W., 1113 Clinton
Hoboken Cornice & Skylight Works, 1113 Clinton
Leonard Sheet Metal Works (Inc.), 219
Schreck & Noelty, 27 Hague Grand
JERSEY CITY—American Skylight & Iron
Works ('Heiliwell' Puttyless & "Secondus"), 221 Randolph
Anderson Bros. Co., 394 Grove
Ebert, Gustav H., 100 Monticello av
Henningsen, Henry & Co., 15 Garrison av
National Sheet Metal Roofing Co., 339 Grand
Pasman Co., Corn'paw, c. Crescent av
Pfister, Fredk., 105 Lincoln
Ringle, Jacob & Son, 83 Newark av
NEWARK—All wood, Jos. R., 60 Earl
Baler & Conrad 336 Hunderton
Berla, Elias, 76 Mulberry
Bieker, Jos., 64 Shipman
Ding & Teuscher, 476 18th av
Engelberger, F. & W. V. & Co., 159 Jelliff av
Essex Cornice & Skylight Works, 127 Van
Hammond, Theo. C., 13 Ferry Buren
Newark Cornice & Skylight Works, 9
Schwing & Co., 190 Ferry 17th av
Smith, Frank F., 53 Sherman av
Steinberg, Jacob, 225 Belmont av
PATERSON—Lendrim, H. C. Co., 82 Clay
McNeil, Lawrence W., 427 Grand
Quinn Bros., 9 Fair
SCOTCH PLAINS—Jahns, Robt. Sons
TRENTON—Trenton Arch'd Cornice Works, 101 S Warren
WEST HOBOKEN—Gutschmidt, W. H., 810 John

NEW YORK.

ALBANY—Ackroyd, James & Sons, 12 James
Fitzgerald, Jno. L., 22 Beaver
Gorman, Jas. J., 14 Norton
Hood, W. R., 115 Hamilton
Macnee & Rabe, 659 B'way
BINGHAMTON—Freeman, E. G. & Co.
McIntyre & Hull
BROOKLYN—(See New York City, Borough of Brooklyn)
BUFFALO—Bauer's, Chas. Sons, 159 William
Canton Steel Roofing Co., 945 W Ferry
Christmann, Philip & Sons, Virginia &
Eberz, Peter, 285 Dearborn Orange
Eisinghorst, A. F., 138 B'way
Eisinghorst, John H., 574 Michigan
Gruber, Rupert & Co., 541 Sherman.
Hartmetz, Geo., 652 Elm
Kener, Edw., Jr., 410 Connecticut
Lindsay Wilson, 167 E Ferry.
Lipp & Nauth, 336 Genesee
Machwirth Bros. Co., 201 Oak
Menge, Fredk. A., 480 Genesee
Peters, G. H. Co., 289 Oak
Rademacher Bros., 345 Fox.
COHOES—Loop, Wm. H.
ELMIRA—Barker, Rose & Clinton Co.
KINGSTON—Wieber, Henry E.
NEWBURGH—Atlas Roofing Co.
Newburgh Cornice Works
Shannon & Co., 107 Liberty

NEW YORK CITY. Borough of Brooklyn.

BROOKLYN—Ahern, Andw. W., Bay 24th av, nr Bath av.
Blecher Bros., 49 Nostrand av.
Buchanan, A. Jr., 1587 Fulton
Buell, C. S. Co., 26 Court

Burger & Gohlke, 232 7th
Clark, Wm. F. Co., 315 4th av.
Clifford, Neil, 296 Court
Cohen, Henry, 395 Rockaway av.
Gogarty, Michael J. (Copper & Galvanized
Iron), 1531 Fulton

Greenthaler, Chris., 333 Throop av
Halpin, Jas., 936 DeKalh av.
Herrmann & Grace, 671 Bergen
Hoellerer, Jos., 91 Union av
Kuhnl, August, 10 Lorimer
Mildner, Chas., 103 Walworth
Muller, E. A. & Bro., 687 4th av
Ostergren, Sam'l, 727 3d av
Otto, Jno. M., 46 Majur
Rueger, Chas. G., 293 Flatbush av
Schar, Paul, 2273 Church av
Schnitzspan, Henry V., 800 Wythe av
Schrattwieser Fireproof Construction Co., 426
Setou, John, 78 Washington av 3d av
Smith, Air Chamber Sky Light Co., 17
Sutphin, E. J., 668 Mhln av Fulton
Tolman, Chas., 527 Bushwick av
Wachter, Louis L., 274 Woodward av
Weltz, Otto & Co., 14 Lexington av.
White, James Co., 448 Adelphi

Boroughs of Manhattan & Bronx

NEW YORK—Abbott's, M. Sons, 137 8th av
Alexander & Weiss, 406 E 25th
Americau Luxfer Prism Co., 160 5th av
Anderson & O'Brien, 512 W. 48th
Architectural Cornice & Skylight Works,
325 W 38th

Architectural Metal Works, 1192 2d av.
Baron, Louis, 20 Chatham Sq
Bauman, Jos. & Son, 59 E 4th
Becker, J. C. L., 174 E 87th
Beer & Hess, 223 W 35th
Berglund, Chas. & Son, 774 3d' av
BERGER MFG. CO., 210 E 23d.
(adv. index, end of book)

BICKELHAUPT, GEO., SKYLIGHT
Works, 243 W. 47th. (See adv. below)

Bois Sheet Metal Works, 50 Vestry
Borkel, Jno., 42 E Houston
Breivogel, Geo., 46 Rose
Bronx Metal Works, 2346 Lorillard pl.
Coleman & Krause, 515 W. 29th
Curry, P. & Son, 374 W. B'way
Dietze, Oscar, 245 E 84th

EDWARDS MFG. CO., 359 W 26th.
(See adv. index, end of book)

Essenwanger, Chas., 502 E 148th
Federroll, Rudolph, 267 W 35th
Fitzsimons M. & Co., 224 W. 36th
Freyberg, Otto, 2308 2d av
Furlong & Furlong, 459 E 135th
General Supply & Construction Co.
("Eclipse" Glazing), 21 State

Ginger Skylight Co., 218 W. 37th
Goldman, Barney, 520 W. 40th
Gregory, Jas., 125 W 40th
Harlem Cornice & Roofing Co., 1960 Park
Harrison, M. & Son, 214 E. 52d
av
HAYES, GEORGE CO., 71 8th av. (See
adv. index, end of book)

Horner, Jos., 505 5th
Keane, Wm. A. & Co., 432 W. 37th
Kraemer, Morris, 569 3d av.
Krauth, Carl, 128 G'wich av.
Lupton's, David Sons Co., 220 B'way
Mark, Jacob Sons (Iron Frame), 7 Worth
May, Wm. M., 798 11th av.
Molle, Edw., 86 8th av
Morrow, J., 225 W 50th
Murphy, Geo. M., 43 New Chambers
National Ventilating Co. (Steel Puttyless),
1 Madison av

NEW YORK PRISM CO., 473 W. B'way.
(See adv. index, end of book)
Nicholson & Gallaway, 646 Hudson

Pfeifer Bros., 473 Greenwich
Poll, Michael, 897 3d av
Preusser, John, 302 W 122d
Rendle, Arthur E. (The Paradigm), 18 W
Rice, Barth. J., 578 W 130th 34th
Rosenberg, Adolph, 512 E 17th
Saron, David, 2164 Madison av
Schwoerer, A. & Sons, 530 E 80th
Sheperd Sheet Metal Co., Park av & 133d
Smith & Dorsett Co., 405 E 47th
Sommerfield & Riesner, 325 W 38th
Taylor, Jas., 223 Mercer
Vincent, Wm. E. D., 133 E 118th
Walther, Max, 796 E 142d
Westergren, Moritz F., 435 E 144th
Winters, Chas., 626 Washington

(END OF NEW YORK CITY)

NIAGARA FALLS—Machwirth Bros. Co.
POUGHKEEPSIE—Aldrich, Eibert, 363 Mili
ROCHESTER—Gogglin & Knowles, 50 Frank-
Haskins & Co., 397 Main E lin
Siddons, John Co., 65 N Water
SYRACUSE—Bradford & Deruchie, 439 E
Water

Cashman & McCarthy, 372 W Fayette
Curran, J. & J., 218 N Franklin
Talbot, Thos. & Son, 240 W Water
TROY—Loeble, Wm., 422 River
Manogue, Edw., ft Grand.
O'Connor, John, 328 2d
UTICA—Metal Roofing & Cornice Co., 71 Main
YONKERS—Fitzgerald, David, 202 New Main
McVicar, Thos., 30 Dock
McVicar, Wm. H., 83 Woodworth av

NORTH CAROLINA.

CHARLOTTE—Charlotte Roof & Paving Co.

NORTH DAKOTA.

GRAND FORKS—Barnes & Nuss Co.

OHIO.

AKRON—Burt Mfg. Co.
Kasch Roofing Co.
CAMBRIDGE—Cambridge Roofing Co.
CANTON—**BERGER MFG. CO.** (See adv.
index, end of book)

Canton Cornice & Skylight Co.
ELLER MFG. CO. (See adv. index,
end of book)

Kannberg Roofing & Ceiling Co.
CINCINNATI—Beckman, Wm., 1543 Race
Blum, Albert, 2837 Woodburn av
Brandis Bros., 3109 Reading rd
EDWARDS MFG. CO., Eggleston av., 4th
& 5th. (See adv. index, end of book)

Freund, Jacob Roofing Co., Mitchell av &
B. & O. S. W. Ry.

Grelwe, Edw. & Bro., 1128 B'way
Kiechler Mfg. Co., Wade & Denman
Lee, Thos., 130 W 2d
Porter Iron Roofing & Corrugating Co.,
27 W Front

Scott & Co., 234 Public Landing
Standard Roofing Co., 1662 Providence
Weissenberger, Geo. K., 4004 Spring Grove av
Witt Cornice Co., 8th & B'way
Witt & Brown, 215 W 3d

CLEVELAND—Callaghan, J. & Sons, 1119
Superior, NE

Cleveland Metal Roofing & Ceiling Co.,
3105 Detroit av, N W

Garry Iron & Steel Co., 1270 E 53d
Mannen & Esterly Co., 2241 St. Clair av,
Ohio Roofing Co., 1477 Euclid av N E

Ortli, Chas. F., 2510 Barber av, S W
Riester & Thesmacher, 11228 Detroit av

Rudolph & Son Co., 416 Prospect av, N W
Stran, C. W., 1288 E 9th

Towson, E. H. Co., 2376 E 59th

COLUMBUS—Calkins, W. R. & Bro., 752 E
Kneil, Philip, 344 S 4th Long

Kromer, P. F., 164 W Mound
Schoedinger, F. O., 146 N 3d

DAYTON—Bretch, A., 126 E 5th
Buvinger, G. W. & E. E. 323 E 3d

Kenney, J. R., 251 S Wayne av
Wuichet, Chas. & Co., 14 S Canal

FINDLAY—Gates, N. S. & Co.
Hoffman & Bryan

HAMILTON—Schlosser, Jacob, & Son
MANSFIELD—Martin, C. E. & Bro.

SALEM—MULLINS, W. H. CO. (Steel),
(See adv. index, end of book)

SPRINGFIELD—Peet & Schuster Co., 28 S
Fountain av

TOLEDO—Gerken, J. D. & Co., 1309 Washn
Hofer Bros., ft of Washn

Kloppinger, G. F. C., 130 Ottawa
Toledo Cornice & Copper Works, 130 Ot-
Wolfe & Warnke, 23 N Erie tawa

ZANESVILLE—Snyder Roofing Co.

OREGON.

PORTLAND—Bayer, J. C. Furnace Co., 265
Burkhart & Weaverson, 305 4th Second

Hirschberger & Sweeney, 292 Burnside
Tilton Bros., 105 5th N

Wynkoop, W. A., 248 Ash.

PENNSYLVANIA.

ALLEGHENY—Allegheny Cornice & Skylight
Co.

Irwin, Thos. W. Mfg. Co., 411 Rebecca.
SCHOLES BROS., 1241 Rebecca.
(See adv. index, end of book)

ALLENTOWN—Maker, Daniel

ALTOONA—Hughes, J. C. & Son
BETHLEHEM—Lehigh Valley Cornice Works

CARNEGIE—Rome, Geo. & Co.
CHESTER—Armitage, Geo. L.

EASTON—Stotz Bros.
ECONOMY—Lieberman, M. F., Sheet Metal
& Roofing Co.

ERIE—Murphy Bros., 22 N Park
Patterson & Sterling, 12th & French

GREENSBURG—Overly, W. F.
HARRISBURG—Fager & Maeyer

HAZLETON—Barber, J. F. & Co.
LANCASTER—Arnold, Jno. L., 141 N Queen

Penn Cornice & Roofing Co.
Sheet Metal & Supply Co.

McKEESPORT—Trader, E. N.
PHILADELPHIA—Abronski Bros., 1615 Stiles

AMERICAN BAR LOCK CO. (Bar
Lock System), 26th & Penna. av. (See
adv. index, end of book)

American Metal Cornice Works, 1124 Ontario
BERGER MFG. CO., 1034 Wash'n av.
(See adv. index, end of book)

Bleffen, Hy. J., 868 N 4th
Brown, Jos. E., 525 N 23d

Central Cornice Works, 3420 Market
Cornell, H. T., 1345 N 6th

Decker, John & Son, 2704 Girard av
Gara, McGinley & Co., 23 S 17th

Harris & Harris, Philadelphia, Pa.
Knodel, Emil, 7 Girard av

Lupton's David Sons Co., Allegheny av
& Tullp

Meade Roofing & Cornice Co., S 46th, nr.
Woodland av

Penn Metal Ceiling & Roofing Co., 23d &
Hamilton, Philadelphia, Pa.

Rising Sun Cornice Works, Rising Sun la
& 8th

THORN, J. S. CO., 20th & Allegheny
av. (See adv. index, end of book.)

PHOENIXVILLE—Caswell & Moore

G. BICKELHAUPT SKYLIGHT WORKS

Sole Manufacturers of ^{G B} Trade mark Specialties.

AUTOMATIC SELF-LOCKING SCUTTLE OPENER, SKYLIGHT LIFT,
Gas Soldering Furnaces and Skylight.

Established 1869.

Send for Pamphlet.

245-47 W. 47th ST., NEW YORK.

PITTSBURG—Bonar, James & Co., Frick bldg
Keighley, S. Metal Ceiling & Mfg. Co., 819
Locust

Morgan, O. C., 6413 Frankstown av
Rasner & Dinger Co., 2d av & Ferry
SCRANTON—Gunster Bros.
WILKES-BARRE—Carpenter, B. G. & Co., 51
W. Market
Connor, Harry & Co., 237 S Main

RHODE ISLAND.

PROVIDENCE—Brunnckow, C. G. Co., 223
Burgess, Jas. 254 Prairie av Globe
CLASON ARCHITECTURAL METAL
Works, 428 Kinsley av. (See adv. In-
dex, end of book)

Harriis, Clayton, 281 Canal
Lamoureux, F. & Co., 39 Friendship
Providence Arch'l Metal Works, 237 Dyer
Providence Cornice Co., 311 Canal
R. I. Cornice Co., 76 Point
Strauss Co., 280 Eddy

SOUTH CAROLINA.

CHARLESTON—Masters, R. M., 127 King
Morris, R. J., 130 King

TENNESSEE.

CHATTANOOGA—Goodlake, C. W.
MEMPHIS—Burdick, A. W. & Co., 22 Her-
nando
Elchberg & Lang Mfg. Co., 63 Jeff
Fritz, Ed. H., 152 Front
Wessendorf, Chas., 196 Main
NASHVILLE—Cammerer, H. & Son, 227 N Mar-
ket
Phillips & Buttorf Mfg. Co., 219 N College

TEXAS.

AUSTIN—Arllitt, Max
DALLAS—Burke, W. D., 128 N. Akard
DENISON—Waltz, Chris
EL PASO—Momsen, Gus. & Co.
FORT WORTH—Attwell Cornice Co.
GALVESTON—Fredericks, Wm. G., 2309 Ave-
Fredericks, Wm. G., 2309 Av A nue A
Werner, Geo. P., 1628 Winnie
HOUSTON—Holtkamp, E. E.
Mackrell, Jas. L., 1814 Terry
Schlom, M. J.
SAN ANTONIO—Jewett, Cornice & Roofing Co.

UTAH.

SALT LAKE CITY—Bywater & Groo
James, David W. & Co., 67 S Main

VIRGINIA.

NORFOLK—Bohn Roofing & Cornice Co., 11
RICHMOND—Burton, R., 819 E Cary Plume
Hackett, R. & Co., 1004 Basin
ROANOKE—Possiu, Theo. & Co.

WASHINGTON.

SEATTLE—Finlay & Robb, 88 Lenora
Seattle Cornice Works, 1410 Western av
SPOKANE—Brandt Bros.
Brown Bros., Inc., 421 Sprague av
TACOMA—Cizek, A. F. Sheet Metal Works
Co.
Miller, Edw. Cornice & Roofing Co., 1114
Commerce

WEST VIRGINIA.

WHEELING—Bayha, D. H.
Caldwell, B. F. & Co.
Nesbitt & Bro.

WISCONSIN.

EAU CLAIRE—Eau Claire Cornice & Heating
Co.
GREEN BAY—Green Bay Cornice & Corru-
gating Co.
LA CROSSE—Gass, Anthony
La Crosse Steel Roofing & Corrugating Co.,
312 State
MILWAUKEE—Biersach & Niedermeyer, 218
Braun & Millen, 372 Reed. 5th
Consolidated Sheet Metal Works, 661 Hub-
bard
Cordts & Ehmke, 771 Teutonia av
Cox, Jos. L., 138 6th
Felix & Goethel, 818 Winnebago
Green, David D., 215 6th

Hoffmann & Baur, 279 Lake
Klubertanz & Strohmeyer, 2325 Fon du
Lac av

MILWAUKEE ARTISTIC METAL Ceiling Co.

Milwaukee Skylight Works, 138 6th
Roeder, Chas., 1520 7th
Romberger, Jos., 2121 Cherry
Schmitt, F. & Sons Co., 301 4th
Tonnsen, Elbert B., 51 3d
SUPERIOR—Bingham Hardware Co., W. S.
Carlson Bros.
Holmes, A. E. & Bro. Co., 704 Ogden av,
W. S.
WEST SUPERIOR—Carlson Bros.

*Skylights, Bar Lock System

AMERICAN BAR LOCK CO., 26th &
Penna. av, Phila., Pa. (See adv. Index, end
of book)

Skylights (Ornamental Iron)

BICKELHAUPT, GEO. SKYLIGHT
Works, 243 W 47th, New York. (See adv.
on preceding page)

Hecla Iron Works, 118 N 11th, Brooklyn,
New York

MILWAUKEE CORRUGATING CO.,
Milwaukee, Wls. (See adv. Index, end of
book)

SMITH, F. P. WIRE & IRON WORKS,
100 Lake, Chicago, Ill. (See adv. Index,
end of book)

WINSLOW BROS. COMPANY, Chicago, Ill.
See adv. Index and branch offices, end of
book)

*Skylights (Porcelite Bar Lock)

AMERICAN BAR LOCK CO., 26th & Penn.
av, Philadelphia, Pa. (See adv. Index,
end of book)

Skylights (Prism System)

(See Glass Mfrs., Prismatic.)

*Skylights (3-Way Prism)

AMERICAN 3 WAY PRISM CO., 134 N.
10th, Philadelphia, Pa. (See adv. Index,
end of book)

Slag Ladles & Cars

Wellman-Seaver-Morgan Co., Cleveland, O.

Slag (Roofing & Paving)

ACME ASPHALT ROOFING CO., 65 Mal-
lory av, Jersey City, N. J. (See adv. In-
dex, end of book.)

Clymer, J. L., Marshall & Berks, Phila., Pa.
Emanuel & Co., Catasauqua, Pa.
Grant Paving Co., Bee bldg., Omaha, Neb.
Hatfield, Geo. E., 314 Flushing av., Brooklyn,
New York
Little, Wm., Conschohocken, Pa., & Swede
land, Pa.
Mount Laurel Slag Co., Reading, Pa.
Vulcanite Paving Co., Land Title bldg, Phila.,
Pa.

Slate Billiard Table Beds

(See Billiard Table Beds, Slate.)

Slate Blackboards

(See Blackboards, Slate.)

Slate Columns

American Slate Co., Bangor, Pa.
Criterion Slate Co., Hydeville, Vt.
East Bangor Consolidated Slate Co., East Ban-
gor, Pa.

Slate Fasteners

Farquhar's, Jno., Sons, 20 East, Boston, Mass.

Slate Floor Tile

Allen's S. Sons, Fair Haven, Vt.
American Slate Co., Bangor, Pa.
Coulman & Westcott, Fair Haven, Vt.

CROPPER, R. T. (Mrs.' Agent), 24 S
7th, Phila., Pa. (See adv. Index, end of
book)

Durick, Keenan & Co., Fair Haven, Vt.
EUREKA SLATE QUARRIES (A. Tut-
tle, Treas.), Fair Haven, Vt. (See adv.
Index, end of book)
Fair Haven Marble & Marbleized Slate Co.,
Fair Haven, Vt.

Hower, J. K., Slatington, Pa.
Hinchey Bros., Hydeville, Vt.
McKenna, David, Slatington, Pa.
Minogue Bros. & Quinn, Hydeville, Vt.
Monson Consolidated Slate Co., Bath, Me., &
27 School, Boston, Mass.
Monson Maine Slate Co., 113 Devonshire, Bos-
ton, Mass.
Pelican Slate Mfg. Co., Wind Gap & Pottstown,
Pa.

Penna. Structural Slate Co., Easton, Pa.
Penrhyn Slate Co., 493 E 138th, New York
Slatington Slate Co., Slatington, Pa.
Williams Slate Co., Arvon, Va.

Slate Flour

Atlas, M. & M. Co., Lincoln, N. J.
Mertztown Mfg. Co. Works, Mertztown, Pa.

Slate for Electrical Purposes

Algonquin Red Slate Co., Worcester, Mass.
Mills, Truthville, N. Y.
Allen's, S. Sons, Fair Haven, Vt.
American Slate Co., Bangor, Pa.
Atlas Slate Co., 101 W Main, Marshalltown,
Ia. Works & Quarries, Mena, Ark.
Sachman Bros., Slatington, Pa.
Bangor Crescent Slate Co., Bangor, Pa.
Bangor Slate Co., Bangor, Pa.
Bangor Slate Mining Co., Bangor, Pa.
Blue Diamond Slate Co., Slatington, Pa.
Columbus Slate Co., Columbus, O.
Coulman & Westcott, Fair Haven, Vt.
Criterion Slate Co., Hydeville, Vt.
Durick, Keenan & Co., Fair Haven, Vt.
Fair Haven Marble & Marbleized Slate Co.,
Fair Haven, Vt.
Franklin Slate Co., 122 Franklin, Phila., Pa.

Hinchey Bros., Hydeville, Vt.
Hower, J. K., Slatington, Pa.
Hughes, H. A. Co., Delta, Pa.
Illinois Marble Co., Edwardsville, Ill.
McKenna, David, Slatington, Pa.
M'Namara Bros., Fair Haven, Vt.
Monson Consolidated Slate Co., Bath, Me.
Monson Maine Slate Co., 113 Devonshire, Bos-
ton, Mass.

New York Slate Works, 138th & 3d av, New
York
North Bangor Slate Co., Bangor, Pa.
O'Day Bros., Hydeville, Vt.
Ontalaunee Slate Mfg. Co., Lynnport, Pa.
Peerless Slate Co., Delta, Pa.
Pelican Slate Mfg. Co., Wind Gap, Pa.
Penna. Natural Slate Blackboard Co., Slat-
ington, Pa.

Penna. Structural Slate Co., Easton, Pa.
Penrhyn Slate Co., 493 E 138th, New York
Portland-Monson Slate Co., Portland, Me.
SCRANTON SLATE CO., Slatington, Pa.
(See adv. Index, end of book)
Slatington Slate Co., Slatington, Pa.
Union Slate Mfg. Co., Hydeville, Vt.
Vermont Unfading Green Slate Co., Fair Haven,
Washington Slate Co., Slatington, Pa.
Young, A. B., Fair Haven, Vt.

Slate Grave Covers

(See Burlal Cases & Vaults, Slate.)

Slate Laundry Tubs

(See Laundry Tubs, Slate.)

Slate Machinery

(See Machinery, Slate.)

Slate Mantel Stock

(See Slate Mill Stock.)

Slate Mantels

(See Mantels, Slate.)

Slate Marbleized Work

(See Mantels, Marbleized Slate.)

Slate (Mausoleum or Catacomb)

Bangor Slate Co., Bangor, Pa.
Bangor Structural Co., Bangor, Pa.

Slate Mill Stock

Allen's, S. Sons, Fair Haven, Vt.
American Slate Co., East Bangor & Easton, Pa.
Atlas Slate Co., Slatington, Pa.
Bachman Bros., Slatington, Pa.
Baltimore-Peach Bottom Slate Co., Union Trust bldg., Baltimore, Md.
Bangor Crescent Slate Co., Bangor, Pa.
Bangor Slate Co., Bangor, Pa.
Bonville Bros., Fair Haven, Vt.
Boston-Blanchard Slate Co. (Sawed & Planed Only), Bangor, Me.

Columbia Slate Co., Slatington, Pa.
Columbus Slate Co., Columbus, O.
CROPPER, R. T. (Mrs.' Agent), 24 S 7th, Phila., Pa. (See adv. index, end of book)

EUREKA SLATE QUARRIES (A. Tuttle, Treas.), Fair Haven, Vt. (See adv. index, end of book)
Fair Haven Marble & Marbleized Slate Co., Fair Haven, Vt.
Genuine Bangor Slate Co., Easton & Bangor, Pa.

Hahn, Granville (Mantel Stock), Walnutport, Pa.
Heimbach Slate Co., Bethlehem, Pa.
Hower, J. K., Slatington, Pa.
Hughes, D. D. & Sons, Walnutport, Pa.
International Slate Co., Slatington, Pa.
Keenan Structural Slate Co., Bangor, Pa.
Kirtland, W. H., 1123 B'way, N. Y.
McKenna, David, Slatington, Pa.
Lake Bomoseen Slate Co., Hydeville, Vt.
Moyer, J. S. & Co., Bangor, Pa.
North Bangor Slate Co., Bangor, Pa.
Ontalaunee Slate Mfg. Co., Lynnport, Pa.
Peerless Slate Co., Delta, Pa.
Pelican Slate Mfg. Co., Wind Gap, Pa.
Pittston Slate Mfg. Co., Pittston, Pa., & Slatington, Pa.

Schaeffer, R. F., Bangor, Pa.
Slatington Slate Co., Slatington, Pa.
Stoddard, D. & Sons, Slatington, Pa.
Williams Slate Co., Arvonla, Va.
Woodley Slate Co., East Bangor, Pa.

Slate Morgue & Dissecting Slabs

Bangor Slate Co., Bangor, Pa.
Bangor Structural Slate Co., Bangor, Pa.

Slate (Plumbers')

(See Slate Urinal Slabs, etc.)

Slate Radiator Tops

(See Slate Stairs, Treads & Risers.)

Slate Refrigerator Linings & Shelves

Bangor Slate Co., Bangor, Pa.
Illinois Marble Co., Edwardsville, Ill.
SCRANTON SLATE CO., Slatington, Pa. (See adv. index, end of book)

Slate Register Frames or Borders

Algonquin Red Slate Co., Worcester, Mass.
Mills, Truthville, N. Y.
Allen's, S. Sons, Fair Haven, Vt.
American Slate Co., Bangor, Pa.
Bangor Slate Co., Bangor, Pa.
Coulman & Westcott, Fair Haven, Vt.
Durick, Keenan & Co., Fair Haven, Vt.
Illinois Marble Co., Edwardsville, Ill.
Lake Bomoseen Slate Co., Hydeville, Vt.
McKenna, David, Slatington, Pa.
Monson Maine Slate Co., 113 Devonshire, Boston, Mass.

North Bangor Slate Co., Bangor, Pa.
Ontalaunee Slate Mfg. Co., Lynnport, Pa.
Peerless Slate Co., Delta, Pa.
Sun Slate Co., Slatington, Pa.
Williams Slate Co., Arvonla, Vt.

Slate (Roofing)

(See Roofing Slate, Various Kinds.)

Slate (School)

(See Slates, School.)
(See also Black Boards, Slate)

***Slate Shower Baths**

MEADOW BROOK SLATE CO., Slatington, Pa. (See adv. index, end of book)

Slate Sills, Lintels, Water Tables, Etc.

(See Slate, Stair Treads & Risers.)

Slate Sinks

(See Laundry Tubs, Slate; also Slate Urinal Slabs, etc.)

Slate Stair Treads & Risers

Allen's, S. Sons, Fair Haven, Vt.
American Slate Co., Bangor, Pa.
Atlas Slate Co., Slatington, Pa.
Baltimore-Peach Bottom Slate Co., Union Trust bldg., Baltimore, Md.
Bangor Crescent Slate Co., Bangor, Pa.
Bangor Slate Co., Bangor, Pa.
Bangor Slate Mining Co., Bangor, Pa.
Bangor Structural Slate Co., Bangor, Pa.
Bash, Chas. (Mfrs. Agt.), 101 Tremont, Boston, Mass.
Blue Diamond Slate Co., Slatington, Pa.
Chicago Slate & Mantel Co., 232 S Clinton, Chicago, Ill.
Columbia Slate Co., Slatington, Pa.
Columbus Slate Co., Columbus, O.
Coulman & Westcott, Fair Haven, Vt.
CROPPER, R. T. (Mrs.' Agent), 24 S 7th, Phila., Pa. (See adv. index, end of book)

Durick, Keenan & Co., Fair Haven, Vt.
Excelsior Slate Co., Pen Argyle, Pa.
Fair Haven Marble & Marbleized Slate Co., Fair Haven, Vt.
Franklin Slate Co., 122 Franklin, Phila., Pa.
Hahn, Granville, Walnutport, Pa.
Hower, J. K., Slatington, Pa.
Hughes, H. A. Co., Delta, Pa.
Illinois Marble Co., Edwardsville, Ill.
International Slate Co., Slatington, Pa.
Keenan Bros., Bangor, Pa.
Keenan Structural Slate Co., Bangor, Pa.
Kirtland, W. H., 1123 B'way, New York
Lackawanna Slate Co., Portland, Pa.
Lake Bomoseen Slate Co., Hydeville, Vt.
Lehigh Structural Steel Mfg. Co., Slatington, Pa.
McKenna, David, Slatington, Pa.
Madoc Slate Co., Allentown, Pa.
MEADOW BROOK SLATE CO., Slatington, Pa. (See adv. index, end of book)
Monarch Slate Mfg. Co., Slatington, Pa.
Monson Consolidated Slate Co., Bath, Me.
Monson Maine Slate Co., 113 Devonshire, Boston, Mass.

North Bangor Slate Co., Bangor, Pa.
New York Slate Works, 493 E 138th, New York
Ontalaunee Slate Mfg. Co., Lynnport, Pa.
Peerless Slate Co., Delta, Pa.
Pelican Slate Mfg. Co., Wind Gap, Pa.
Penna. Natural Slate Blackboard Co., Slatington, Pa.

Penna. Structural Slate Co., Easton, Pa.
Penrhyn Slate Co., 493 E 138th, New York
Portland-Monson Slate Co., Portland, Me.
Schaeffer, R. F., Bangor, Pa.
Schilling Co., 43 Eagle, Albany, N. Y.
Scotch Hill Slate Co., Fair Haven, Vt.

SCRANTON SLATE CO., Slatington, Pa. (See adv. index, end of book)
Slatington-Bangor Slate Syndicate, Slatington, Pa.

Slatington Slate Co., Slatington, Pa., & 181 B'way, N. Y.
Southwestern Slate Co., Slatington, Ark.

Taylor, Wm. M. Mantel & Grate Co., Columbus, O.

Vermont Unfading Green Slate Co., Fair Haven, Vt.
Washington Slate Co., Slatington, Pa.
Williams Slate Co., Arvonla, Va.
Woodley Slate Co., East Bangor, Pa.

Slate (Structural)

(See Slate Stair Treads & Risers.)

Slate Table Tops

Illinois Marble Co., Edwardsville, Ill.
SCRANTON SLATE CO., Slatington, Pa. (See adv. index, end of book)
Vermont Unfading Green Slate Co., Fair Haven, Vt.

Slate Tanks

Fair Haven Marble & Marbleized Slate Co., Fair Haven, Vt.
Illinois Marble Co., Edwardsville, Ill.
New York Slate Works, 138th & 3d av, New York
Vermont Unfading Green Slate Co., Fair Haven, Vt.

Slate Tile

(See Laundry Tubs, Slate.)

Slate (Unfading Green)

Columbus Slate Co., Columbus, O.
Kimes, J. B. & Co., 1822 Filbert, Phila., Pa.

Slate (Unfading Purple & Red)

Columbus Slate Co., Columbus, O.
Kimes, J. B. & Co., 1822 Filbert, Phila., Pa.

Slate Urinal Slabs, Etc.

Algonquin Red Slate Co., Worcester, Mass.
Mills, Truthville, N. Y.

Allen's, S. Sons, Fair Haven, Vt.
American Slate Co., Bangor, Pa.
Bangor Slate Co., Bangor, Pa.
Bangor Crescent Slate Co., Bangor, Pa.
Bangor Slate Mining Co., Bangor, Pa.
Bangor Structural Slate Co., Bangor, Pa.
Bash, Chas. (Mfrs.' Agt), 101 Tremont, Boston, Mass.
Chicago Slate & Mantel Co., 232 S Clinton, Chicago, Ill.
Christa, Philip & Sons (Workers), 504 Lafayette, Detroit, Mich.
Cleveland Mantel & Tile Co., 100 Sterling av, Cleveland, O.

Columbia Slate Co., Slatington, Pa.
Columbus Slate Co., Columbus, O.
Coulman & Westcott, Fair Haven, Vt.
Durick, Keenan & Co., Fair Haven, Vt.
East Bangor Consolidated Slate Co., East Bangor, Pa.
Fair Haven Marble & Marbleized Co., Fair Haven, Vt.

Franklin Slate Co., 122 Franklin, Phila., Pa.
Hahn, Granville, Walnutport, Pa.
Hall, Chas. E. & Co., E. Cambridge, Mass.
Hinchey Bros., Hydeville, Vt.
Hower, J. K., Slatington, Pa.
Hughes, H. A. Co., Delta, Pa.
Illinois Marble Co., Edwardsville, Ill.
Kimes, J. B. & Co., 1822 Filbert, Phila., Pa.
Kirtland, W. H., 1123 B'way, New York
Lackawanna Slate Co., Portland, Pa.
Lake Bomoseen Slate Co., Hydeville, Vt.
Lehigh Structural Steel Mfg Co., Slatington, Pa.

McKenna, David, Slatington, Pa.
Monarch Slate Mfg. Co., Slatington, Pa.
Monson Consolidated Slate Co., Bath, Me.
Monson Maine Slate Co., 113 Devonshire, Boston, Mass.

New York Slate Works, 138th & 3d av, New York
North Bangor Slate Co., Bangor, Pa.
Ontalaunee Slate Mfg. Co., Lynnport, Pa.
Peerless Slate Co., Delta, Pa.
Pelican Slate Mfg. Co., Wind Gap, & Pottstown, Pa.

Penna. Structural Slate Co., Easton, Pa.
Penrhyn Slate Co., 493 E 138th, New York
Portland-Monson Slate Co., Portland, Me.
Schilling Co., 43 Eagle, Albany, N. Y.
Scotch Hill Slate Co., Fair Haven, Vt.

SCRANTON SLATE CO., Slatington, Pa. (See adv. index, end of book)
Slatington-Bangor Slate Syndicate, Slatington, Pa.

Slatington Slate Co., Slatington, Pa., & 181 B'way, N. Y.

Southwestern Slate Co., Slatington, Ark.
Troy Bros. & Co., 91 Haverhill, Boston, Mass.

Unger, Jno. F., Slatington, Pa., & 1006 Mount Vernon, Phila., Pa.
Williams Slate Co., Arvonla, Va.
Woodley Slate Co., East Bangor, Pa.

Slate Vault Lining

(See Burial Cases & Vaults, Slate.)

Slaters' Felt

(See Felts, Roofing.)

Slates (School)

American School Slate Works, Slatington, Pa.
Gardner, Jno., Portland, Pa.
McKenna, David, Slatington, Pa.
MEADOW BROOK SLATE CO., Slatington, Pa. (See adv. index, end of book)
Miller, O. A. Slate Co., Slatington, Pa., & 127 W Logan, Gtn., Phila., Pa.
National School Slate Co., Bethlehem, Pa.
Shenton, Thos. H., Slatedale, Pa.
SCRANTON SLATE CO., Slatington, Pa. (See adv. index, end of book)
Wise, Jos. H., Portland, Pa.
Wise, J. & Co., Portland, Pa.

Slating & Roofing Nails

(See Nails, Roofing & Slating.)

Slats (Bath Tub)

Wolverine Brass Works, Grand Rapids, Mich.

Sledge Mfrs.

Atha Tool Co., Newark, N. J.
Beall Bros. (Inc.), (Blacksmiths' Stone, etc.), Alton, Ill.
Evansville Tool Works (Coal, Blacksmiths', Stone, etc.), Evansville, Ind.
Hammond, C. & Son, Ogontz, Pa.
Hardscog, Martin Co. (Coal), Allegheny, Pa.
Heller Bros. Co., 879 Mt. Prospect av, New-Hubbard & Co., Pittsburgh, Pa. ark, N. J.
Iron City Tool Works (Solid Cast Steel), 32d & Smallman, Pittsburgh, Pa.
Klein-Logan Co., S 13th & Breed, Pittsburgh, Pa.
Mack & Co., Rochester, N. Y.
Pittsburg Tool & Drop Forge Co. ("Cheswick" Stone Miners', Blacksmiths', etc.), Works, Cheswick, Pa.
Plumb, Fayette R. (Inc.), Frankford, Philadelphia, Pa.
Solid Steel Tool & Forge Co. ("S. T. S."), Brackenridge, Pa.
Union Drop Forge Co. (Drop Forged), 66 E Ohio, Chicago, Ill.
Verona Tool Works, Verona, Pa., & Pittsburgh, Pa.
Warwood Tool Co., Wheeling, W. Va.

Sleds (Bob)

Abingdon Wagon Co., Abingdon, Ill.
Acme Wagon Co., Emigsville, Pa.
Allen, S. L. & Co. (Flexible Flyer), 1107 Market, Pbil., Pa.
Anderson Co., St. Paul, Minn.
Barber Mfg. Co. (Oscillating), Ashtabula, O.
Belknap Wagon Co., Grand Rapids, Mich.
Bement's, E. Sons, Lansing, Mich.
Columbia Combination Coaster Co., Morgan bldg, Buffalo, N. Y.
Donaldson Bros., Mt. Clemens, Mich.
Harrison Wagon Co. ("Bob Sleighs"), Grand Rapids, Mich.
Hopkins, W. T., Paxton, Ill.
Howland Mfg. Co., Pontiac, Mich.
Hunt, Helm, Ferris & Co. ("Star", "American" Bobs, Coasters), Harvard, Ill.
Keller Mfg. Co., Sauk Center, Minn.
Lansing Wheelbarrow Co., Lansing, Mich.
Lloyd Mfg. Co., Minneapolis, Minn.
Minneapolis Plow Works, Minneapolis, Minn.
Northwestern Mfg. Co., Ft. Atkins, Wis.
Ohio Implement Co., Bowling Green, O.
Sheer, Eugene, Lincoln, Ill.
Smith, T. & H. & Co., Pekin, Ill.
Standard Harrow Co., Utica, N. Y.
Sterling Mfg. Co., Sterling, Ill.
Streich, A. & Bro., Oshkosb, Wis.
Studebaker Bros. Mfg. Co., South Bend, Ind.
Toledo Plow Co., Toledo, O.
Turner, Joel & Co., Fairfield, Ia.

Sleeves (Dredging)

Acme Rubber Co., Trenton, N. J.
BOSTON BELTING CO., 260 Devonshire, Boston, Mass. (See adv. index & branch offices, end of book)
Boston Woven Hose & Rubber Co., Cambridge, Mass.
Goodrich, B. F. Co. (Rubber), Akron, O.

Gutta Percha & Rubber Mfg. Co., 126 Duane, New York
Home Rubber Co., Trenton, N. J.
New Jersey Car Spring & Rubber Co., Jersey City, N. J.
New York Flexible Metallic Hose & Tubing Co. (Flexible Metallic), 161 Lafayette, N. Y.
Republic Rubber Co., Youngstown, O.
Revere Rubber Co., Boston, Mass.
Voorhees Rubber Mfg. Co., Jersey City, N. J.

Sleeves (Pipe)

Dayton Pipe Coupling Co., Dayton, O.
Dresser, S. R. Mfg. Co. (for Repair Work), Bradford, Pa.

Sleeves (Plumbago)

McCullough-Dalzell Crucible Co. (For Bessemer & Open Hearth Furnaces), Pittsburgh, Pa.

Sleeves (Twist Drill)

Billings & Spencer Co. (Taper), Hartford, Conn.
MORSE TWIST DRILL & MACHINE CO., New Bedford, Mass. (See adv. index, end of book)
NEW PROCESS TWIST DRILL CO., Taunton, Mass. (See adv. index, end of book)

Sleeves & Tees for Underground Construction

McIntire, C. Co., Newark, N. J.

Sleeving (Cotton)

Belden Mfg. Co., 194 Michigan, Chicago, Ill.
Hope Webbing & Belting Co., Providence, R. I.
Neidner Hose Co., Malden, Mass.
Rosendale-Reddaway Belting & Hose Co., Newark, N. J.

Slicers (Pineapple)

Sinclair-Scott Co., Baltimore, Md.

Slicers (Vegetable)

Landers, Frary & Clark ("Universal," "French" & "Lightning"), New Britain, Conn.

Slide Rests for Lathes

Bartlett, Edwin E., 326 A., Boston, Mass.
National Machine Co., Milwaukee, Wis.
Reed, F. E. Co., 120 Gold, Worcester, Mass.

Slings (Hay)

Gosben Mfg. Co. ("Hercules"), Gosben, Ind.
Harvard Hay Tool Co., Harvard, Ill.
Hunt, Helm, Ferris & Co. ("Star"), Harvard, Ill.
Louden Machinery Co., Fairfield, Ia.
Milwaukee Hay Tool Co., Milwaukee, Wis.
Myers, F. E. & Bro., Ashland, O.
Ney Mfg. Co., Canton, O.
Ney, V. L. Co., Canton, O.
Porter, J. E. Co. (Centre Grip), Ottawa, Ill.
Ricker, W. G., Rochester, N. Y.
Rock River Machine Co., Janesville, Wis.
WHITMAN & BARNES MFG. CO., Chicago, Ill. (See adv. index & branch offices, end of book)
Wisconsin Hay Tool Co., Ottawa, Ill.

Smelters & Refiners

(See also Babbitt Metal.)

Ajax Metal Co., 48 Richmond, Phila., Pa., & Birmingham, Ala.
American Smelting & Refining Co., 9th & Freeman, Cincinnati, Ohio
American Smelting & Refining Co., 71 B'way, New York
Atlas Smelting & Refining Co., 1008 Gtn av, Pbil., Pa.
Balbach Smelting & Refining Co., Newark, N. J.
Chicago Metal Reduction Co., 77 Jackson boul, Chicago, Ill.
Colonial Refining Co., 2nd & Bristol, Phila., Pa.
Columbia Smelting & Refining Works, 366 West, N. Y.
Cornell & Andrews Co., Meriden, Conn.
Dee, Tbos. J. & Co., 69 Wash'n, Chicago, Ill.

De Lamar's Copper Refining Co., Chrome, N. J.
Deutsch, N. & Co., 552 S Canal, Chicago, Ill.
Electric Smelting & Aluminum Co. (Aluminum, Silicon, Manganese, Alloys), Lockport, N. Y.
Essex Smelting & Refining Works, 335 Stanton, New York
Eustis Smelting Works, Boston, Mass.
Federal Lead & Zinc Smelting Co. (Lead & Zinc), Joplin, Mo., & Arrott bldg, Pittsburg, Pa.
Goldsmith Bros., 65 Wash'n, Chicago, Ill.
Great Western Smelting & Refining Co., 173 W Kinzie, Chicago, Ill.
Hatthiessen & Hegeler Zinc Co., La Salle, Ill.
Higginbotham, Z. F. & Sons (Lead), Fertile, Mo.
Honkamp Bros., 39th & Clark, Chicago, Ill.
Illinois Smelting & Refining Co., Kinzie & Peoria, Chicago, Ill.
Illinois Zinc Co., Peru, Ill.
International Smelting & Refining Co., Real Estate Trust bldg, Phila., Pa.
Kahn Bros., 525 E 19th, New York, N. Y.
Kramer, H. & Co., 353 S Canal, Chicago, Ill.
La Harpe Smelting Co., La Harpe, Kan.
Lanyon Zinc Co., 308 N 6th, St. Louis, Mo.
Lehman Bros., 401 Jefferson, Hoboken, N. J.
Lelong, L. & Bro., 345 Halscy, Newark, N. J.
Lipsbitz Smelting Works, Waco, Tex.
Lissberger, B. & Co., 742 E 14th, N. Y.
Lissberger, Marks & Son, 397 W 12th, N. Y.
Lorraine Smelting & Refining Co., 115 Dearborn, Chicago, Ill.
Louisville Smelting Works, Louisville, Ky.
McDonald, Jas. & Sons Co., 654 Main, Cincinnati, O.
McHattan Smelting Co., 1500 Wash'n av, Phila., Pa.
Matthiessen & Hegeler Zinc Co., La Salle, Ill.
Metropolitan Smelting & Refining Co., 92 New Chambers, N. Y. City
Monarch Metal Co., 156 S Lincoln, Chicago
Nassau Smelting & Refining Works, 607 W 29th, New York
National Lead Co., 100 William, New York
National Smelting & Refining Works (H. Heppenheimer, Prop.), 419 Marcy av, Brooklyn, N. Y.
New Jersey Zinc Co., 71 B'way, New York
Orford Copper Co., 43 Exchange pl, N. Y.
Pearl Smelting & Refining Works, 2507 E Cumberland, Phila., Pa.
Reeves, Paul S. & Son, 1413 Catherine, Phila., Pa.
Riverside Metal Refining Co., Inc., Connells-Roessing Bronze Co., Etna, Pa. ville, Pa.
Rosenthal's, Jos. Sons, 192 Berks, Phila., Pa.
Star Refining Co., 50 State, Boston, Mass.
St. Louis Smelting & Refining Co. (Lead, Slag, etc.), St. Louis, Mo.
Syracuse Smelting Works, 36th & 10th av, New York
Tacoma Smelting Co. (Lead, Copper, Gold, etc.), Tacoma, Wash.
Tottenville Copper Co., Tottenville, N. Y.
United States Smelting Works, Phila., Pa.
Williams, E. A. & Son, Jersey City, N. J.
Woodfall Bros., 1105 Fairmount av, Pbil., Pa.

Smelting Plants (Complete Equipment)

KOVEN, L. O. & BRO., 50 Cliff, New York. (See adv. index, end of book)
Traylor Engineering Co. (Copper, Silver & Lead), 114 Liberty, New York. Works: Allentown, Pa.

Smoke Consumers

(See Fuel Economizers; also Smokeless Furnaces.)

Smoke House Builders

Evers Iron Works ("Evers's & Hilderbrandt's" Patents), Cleveland, O.
Gehret Bros. (Doors, Meat Trees, Patent Floors, etc.), Bridgeport, Pa.

Smoke Jacks (Round House)

Asbestos Shingle, Slate & Sheathing Co. ("Century," Asbestos Lumber), Ambler, Pa.
Dickinson, Paul (Cast Iron), Security bldg, Chicago, Ill.
Johns, H. W.-Manville Co. (Transite Asbestos), 100 William, New York
Keasby & Mattison Co. ("Century" Asbestos Building Lumber), Ambler, Pa.
Manor-McCann Co., Fisher bldg, Chicago, Ill.

Smoke Stacks (Self-Supporting)

(See Chimneys, Steel)

Smoke Stacks (Steel)

(See also Chimneys Various Kinds.)

ABENDROTH & ROOT MFG. CO., Newburgh, N. Y. (See adv. index & branch offices, end of book)

Abendroth & Stein, 39 Cortlandt, New York
Allen, Wm. & Sons Co., Worcester, Mass.

Anderson Bridge & Scraper Co., Anderson, Ind.
Atlanta Machine Works, King & Ga. R. R., Atlanta, Ga.

Aurora Boiler Works (Inc.) ("Self-Supporting Steel"), Aurora, Ill.

Bartlett, Hayward & Co., Baltimore, Md.

Biggs Boiler Works Co., Akron, O.

Bridgeport Boiler Works, Bridgeport, Conn.

Bryan, E. A. Co. (Steel), 1st Nat'l Bank bldg., Chicago, Ill. Works, Harvey, Ill.

Canton Boiler & Engineering Co., Canton, O.

Carlin's, Thos. Sons Co., 1300 River av., Allegheny, Pa.

Chicago Bridge & Iron Works (Horace E. Horton, Prop.) (Self-Supporting), W 105th & Throop, Chicago, Ill.

Coatesville Boiler Works, Coatesville, Pa.

CODD, E. J. CO., 700-708 S Caroline, Baltimore, Md. (See adv. index, end of book)

Cooper, C. & G. Co., Mt. Vernon, O.

De Pere Boiler & Mfg. Co., De Pere, Wis.

Detroit Ship Building Co. (Brass Dept.), Detroit, Mich.

DuBois Iron Works, DuBois, Pa.

East Jersey Pipe Co., Paterson, N. J.

Edge Moor Iron Co., Wilmington, Del.

Enterprise Boiler Co., Youngstown, O.

Fitzgibbons Boiler Co., Oswego, N. Y.

Freeman, S. & Sons Mfg. Co., Racine, Wis.

Gem City Boiler Co., Dayton, O.

Girard Boiler & Mfg. Co., Girard, O.

GRAVER, WM. TANK WORKS, East Chicago, Ind. (See adv. index, end of book)

Hammond Iron Works, Warren, Pa.

Harrisburg Mfg. & Boiler Co., Harrisburg, Pa.

Heilman Boiler Works, Allentown, Pa.

Hendrick Mfg. Co., Carbondale, Pa.

Jarvis Engine & Machine Works, Lansing, Mich.

Jones & Harold, Jersey City, N. J.

Keeler, E. Co., Williamsport, Pa.

KEWANEE BOILER CO., Kewanee, Ill., & 169 E Lake, Chicago, Ill. (See adv. index, end of book)

King Bridge Co., Cleveland, O.

Kittoe Boiler & Tank Works, Canton, O.

KOVEN, L. O. & BRO., 50 Cliff, New York. (See adv. index, end of book)

Lacy Mfg. Co., Los Angeles, Cal.

Lappan, Jas. Mfg. Co., 20th & Pike, Pitts-

Leetonia Boiler Co., Leetonia, O. burg, Pa.

Lewis, H. B., 45 Jos. Campau, Detroit, Mich.

Lindsay, W. W. & Co., 1502 Market, Phila.,

Littleford Bros. (Steel), 453 E Pearl, Cincinnati, O.

LYON METALLIC MFG. CO., Aurora, Ill. (See adv. index, end of book)

McAdams, Jno., Tioga nr Richmoud, Phila.,

McDermott Bros., Allentown, Pa.

McNeil Boiler Co., Akron, O.

McNeil, Jas. & Bro. Co., 29th & A. V. Ry.,

Pittsburg, Pa.

Meehan Boiler & Construction Co., Lowellville, O.

Michelmann Steel Construction Co. (Self-Supporting), Quincy, Ill.

Milwaukee Boiler Co., Milwaukee, Wis.

MINNEAPOLIS STEEL & MACHIN-ery Co., Minneapolis, Minn. (See adv. index & branch offices, end of book)

Munroe, R. & Sons Mfg. Co., 23d & Smallman, Pittsburg, Pa.

Murray Iron Works Co., Burlington, Ia.

Muskegon Boiler Works, Muskegon, Mich.

National Boiler Works, 60 Fulton, Chicago, Ill.

Newbold, R. S. & Son Co., Norristown, Pa.

Novelty Steam Boiler Works (Triplett & Jennings, Prop's) (Self-Supporting), 917 S Howard, Baltimore, Md.

OIL CITY BOILER WORKS (Inc.), Oil City, Pa., & 39 Cortlandt, New York. (See adv. index, end of book)

OIL WELL SUPPLY CO., 215 Water, Pittsburg, Pa. (See adv. index, end of book)

Oswego Boiler & Engine Co., Oswego, N. Y.

Pennsylvania Boiler Works, Erie, Pa.

PETROLEUM IRON WORKS CO., Washington, Pa. (See adv. index & branch offices, end of book)

Pfeiffer, Chris. Boiler Co., 70 Michigan, Chicago
Pollock, Wm. B. Co., Youngstown, O.

Porter Foundry & Mach. Co., Allegheny, Pa.

Portland Co., Portland, Me.

Power & Mining Machinery Co. (Self-Supporting Steel Stacks), 52 William, N. Y. Works, Cudahy, Wis.

REEVES BROS. CO. (Self-Supporting), Alliance, O. (See adv. index, end of book)

Ricard Boiler & Engine Co., Toledo, O.

Reilly & Fearson, 1162 N 3d, Phila., Pa.

Riter-Conley Mfg. Co., 56 Water, Pittsburg, Pa., & 111 B'way, New York

Roberts Iron Works Co., Cambridgeport, Mass.

Robb-Mumford Boiler Co. (Inc.), South Framingham, Mass.

RUGGLES-COLES ENGINEERING CO., 39 Cortlandt, New York. (See adv. index, end of book)

RUSSEL WHEEL & FOUNDRY CO., Detroit, Mich. (See adv. index, end of book)

SCAIFE, WM. B. & SONS CO., 221 1st av., Pittsburg, Pa. (See adv. index, end of book)

Sharkey & Peck, 1175 W 18th, Chicago, Ill.

Sotter Bros., Pottstown, Pa.

Southern Engine & Boiler Works (Inc.), Jackson, Tenn.

Springfield Boiler & Mfg. Co., Springfield, Ill.

Star Boiler Works, Clinton, Ia.

Stirling Consolidated Boiler Co., 111 B'way, New York. Works, Barberton, O.

Struthers-Wells Co. (Self Supporting), Warren, Pa.

Tippet & Wood, Phillipsburg, N. J.

Turl's, Jno. Sons (Inc.), 26 Cortlandt, New York Works: Newburgh, N. Y.

Union Boiler & Mfg. Co., Lebanon, Pa.

Union Iron Works, Erie, Pa.

Vance Boiler Works, Geneva, N. Y.

Variety Iron & Steel Works Co., Cleveland, O.

Vogt, Henry Machine Co., Louisville, Ky.

Vulcan Co., Chester, Pa.

Walsh & Weidner Boiler Co., Chattanooga, Tenn.

Walton, C. J. & Son, Louisville, Ky.

Warren City Boiler Works, Warren, O.

White, Robt. Engineering Works, ft of Columbia, Brooklyn, N. Y.

Wickes Bros., Saginaw, Mich.

York Mfg. Co., York, Pa.

Smoke Test Machines

(See Machines, Smoke Testing)

*"Smooth-On" Cements & Compounds

SMOOTH-ON MFG. CO., 572 Communipaw av., Jersey City, N. J. (See adv. index & branch offices, end of book)

Snaps (Harness, Etc.)

American Snap Co. ("Bang-Up" & "Cant-Un-Hook"), Ashtabula, O.

North & Judd Mfg. Co. ("Anchor"), New Britain, Conn.

Snaps (Hitching)

Owen & Nelson, South Bend, Ind.

North & Judd Mfg. Co. ("Anchor"), New Britain, Conn.

Snaps (Swivel)

Greystone Mfg. Co. (Solid Steel), Greystone, Conn.

North & Judd Mfg. Co. ("Anchor"), New Britain, Conn.

Wilcox, Crittenden & Co., Middletown, Conn.

Snippers (Bean)

Gowanda Agricultural Works ("Century"), Gowanda, N. Y.

Snips (Pipe)

Kraeutner & Co., Newark, N. J.

Snips (Tinnners')

Acme Shear Co. (Tinnners' Shears), Bridgeport, Conn.

BERNZ, OTTO S., 13th & S Orange av., Newark, N. J. (See adv. index, end of book)

Clauss Shear Co. ("Clauss"), Fremont, O.

Heinisch's, R. Sons Co. (Tinnners), Newark, N. J.

Hurst, H. L. Mfg. Co., Canton, O.

International Cutlery Co. ("Star"), Fremont, O.

National Cutlery Co. (Tuners'), Westmoreland & Boudnot, Phila., Pa.

NIAGARA MACHINE & TOOL Works, Buffalo, N. Y. (See adv. index, end of book)

Penn Metal Ceiling & Roofing Co. (Ltd.), 23d & Hamilton, Phila., Pa.

SCAIFE, WM. B. & SONS CO., 221 1st av., Pittsburg, Pa. (See adv. index, end of book)

Stortz, Jno. & Son, 210 Vlna, Phila., Pa.

Wiss, J. & Sons Co., Newark, N. J.

Snow Guards

(See Roof Snow Guards.)

Snow Plows

(See Plows, Snow.)

Soap Containers (Liquid)

Hygienic Soap Granulator Co., 24 New Chambers, New York

MORRILL, CHAS. (Soapurn for all Purposes), 277 Broadway, New York. (See adv. index, end of book)

West Disinfecting Co., 9 E 59th, New York

Soap (Harness)

Miller, Frank Co., 349 W 26th, New York

Soapstone

Alberene Stone Co., 223 E. 23d, New York, & 60 N Clinton, Chicago, Ill.

Cohutta Talc Co. (Brick, Foundry Facings, Crayons, Pencils, etc.), Spring Place, Ga.

National Soapstone Co., 385 1st av., New York

Plumbers' Soapstone Co. of America, Oak Ridge, Va.

Troy Bros. & Co., 91 Haverhill, Boston, Mass.

Union Soapstone Co., 14 Marshall, Boston, Mass.

Virginia Soapstone Co. (Kitchen Sinks, Laundry Tubs, Slabs, Hearths, etc.), Schuyler, Va.

Soapstone Electrical Work

Plumbers' Soapstone Co. of America, Oak Ridge, Va.

Soapstone for Lubricants

Atlas, M. & M. Co., Lincoln, N. J., & 82 Pearl, New York

Doggett, Stanley, 101 Beekman, New York

McIlvalne Bros., 1500 Hamilton, Phila., Pa.

Salomon, L. A. & Bro. (Powdered), 216 Pearl, New York

Soapstone (Ground)

American Soapstone Finish Co., Chester Depot, Vt.

RUTLAND FIRE CLAY CO., Rutland, Vt. (See adv. index and branch offices, end of book)

Socket Bushings (Rubber)

Goodrich, B. F. Co., Akron, O.

Republic Rubber Co., Youngstown, O.

*Sockets ("Andrews")

MORSE TWIST DRILL & MACHINE Co., New Bedford, Mass. (See adv. index, end of book)

Sockets (Drill)

Billings & Spencer Co., Hartford, Conn.

Cleveland Twist Drill Co., Cleveland, O.

Imperial Bit & Snap Co., Racine, Wis.

Keystone Mfg. Co., 41 Chandler, Buffalo, N. Y.

MORSE TWIST DRILL & MACHINE Co., New Bedford, Mass. (See adv. index, end of book)

National Twist Drill & Tool Co. ("National," Taper Shank Sockets & Sleeves), Detroit, Mich.

New Process Twist Drill Co., Taunton, Mass.

Oneida Community (Ltd.), Niagara Falls, N. Y.

Standard Tool Co., Central av. & P. Ry., Cleveland, O.

Sockets (Electric Lamp)

Bryant Electric Co., Bridgeport, Conn.
General Mfg. & Supply Co. ("W. P."), Trenton, N. J.
Hubbell, Harvey (Inc.) ("Hubbell"), Bridgeport, Conn.
Johns H. W.-Manville Co. ("Electrohestos" Rings), 100 William, New York
Kinsman Electric & Railway Supply Co. ("Hubbell Pull"), 55 Dey, New York
Marshall Electric Mfg. Co. (Incandescent), 301 Congress, Boston, Mass.
Paiste, H. T. & Co., 3101 Ludlow, Phila., Pa.
Pass & Seymour ("P. & S." Weatherproof), Solvay, N. Y.
Perkins Electric Switch Mfg. Co., Bridgeport, Conn.
Peru Electric Mfg. Co., Peru, Ind.
Sears, Henry D. ("Weber"), 131 State, Boston, Mass.
Westinghouse Lamp Co., 510 W 23d, New York, N. Y.
Yost Electric Mfg. Co., Toledo, O.

Sockets (Flag Pole)

Durkē, C. D. & Co., 3 South, New York
Marine Hardware Co., Peabody, Mass.
Nicol & Co., 66 N Jefferson, Chicago, Ill.
Turner Brass Works, 66 Michigan, Chicago, Ill.
Wilcox, Crittenden & Co., Middletown, Conn.

Sockets (Grip)

Standard Tool Co., Central av & P Ry., Cleveland, O.

Sockets (Ladder)

Arcade Mfg Co. (Iron), Freeport, Ill.

*Sockets (Lathe)

MORSE TWIST DRILL & MACHINE
Co., New Bedford, Mass. (See adv. index, end of book)

*Sockets ("Morse" Taper)

MORSE TWIST DRILL & MACHINE
Co. (for Oil Drills & Socket Keys), New Bedford, Mass. (See adv. index, end of book)

Sockets (Standard)

Bryant Electric Co., Bridgeport, Conn.
Electric Supply Co. ("Hawkeye"), Sioux City, Iowa
GENERAL ELECTRIC CO., Schenectady, N. Y., & 44 Broad, New York. (See adv. index, end of book)
General Mfg. & Supply Co., Trenton, N. J.
Marshall Electric Mfg. Co., 301 Congress, Boston, Mass.
Paiste, H. T. Co. ("Holoshade"), 32d & Arch, Phila., Pa.
Pass & Seymour, Solvay, N. Y.
Perkins Electric Switch Mfg. Co., Bridgeport, Conn.
Sears, Henry D. ("Weber"), 131 State, Boston, Mass.
Yost Electric Mfg. Co., Toledo, O.

*Sockets (Twist Drill)

NEW PROCESS TWIST DRILL CO., Taunton, Mass. (See adv. index, end of book)

Sockets (Waterproof)

Benjamin Electric Mfg. Co. ("Benco"), 40 W Jackson blvd, Chicago, Ill.
Bryant Electric Co., Bridgeport, Conn.
Crescent Electrical Mfg. Co., 183 N Water, Rochester, N. Y.
Crouse-Hinds Co. ("Norbitt"), 308 W Jefferson, Syracuse, N. Y.
Dickinson Mfg. Co., Springfield, Mass.
Freeman, E. H. Electric Co., Trenton, N. J.
General Mfg. & Supply Co., Trenton, N. J.
Hamblin, Jno. A. Co., Providence, R. I.
Johns, H. W.-Manville Co., 100 William, New York
Marshall Electric Mfg. Co., 301 Congress, Boston, Mass.
Pass & Seymour, Solvay, N. Y.
Peru Electric Mfg. Co., Peru, Ind.
Porcelain Electrical Mfg. Co., Trenton, N. J.
Sears, Henry D. ("Weber"), 131 State, Boston, Mass.
Stanley & Patterson ("Newcode"), 23 Murray, New York
Trumbull Electric Mfg. Co., Plainville, Conn.
Yost Electric Mfg. Co., Toledo, Ohio

Sockets (Wire Rope)

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)
Broderick & Bascom Rope Co., St. Louis, Mo.
Durable Wire Rope Co. (Self Locking), 28 Atlantic av., Boston, Mass.
Harris, Wm. & Son, Pittsburg, Pa.
Keystone Mfg. Co., Buffalo, N. Y.
TERRY & TENCH CO., Lexington av & 131st, New York. (See adv. index, end of book)
Trow & Holden, Barre, Vt.
Wilcox, Crittenden & Co., Middletown, Conn.
Williams, J. H. & Co., 9 Richards, Brooklyn, N. Y.

Soda Ash

Columbia Chemical Co., Frick bldg Pittsburg, Pa., & Barborton, O.
Mathieson Alkali Works, Saltville, Va.
Michigan Alkali Co., Wyandotte, Mich.
Pennsylvania Salt Mfg. Co., 115 Chestnut, Phila., Pa.
Solvay Process Co., Syracuse, N. Y., & Detroit, Mich.
Tennant & Sons Co. (Importers), 76 William, New York
Wing & Evans (Inc.) (Selling Agents), 22 William, New York

Sodium Sulphide

United Zinc & Chemical Co., Kansas City, Mo.
Works: Argentine, & Iola, Kans.

Softeners (Cotton)

Zurn, O. F. Co. (Turkish Softener, Resolvent Compound), 23 S. 5th, Phila., Pa.

Soil Pipe & Fittings

(See Cast Iron Soil Pipe & Fittings)

Solder (Brass Spelter)

Hungerford, U. T. Brass & Copper Co., 497 Pearl, New York

Solder for Aluminum

Thwing, C. B., Heed bldg, Philadelphia, Pa.

*Solder (Gold & Silver)

UNITED WIRE & SUPPLY CO. (In Wire & Sheets), 109 Summer, Providence, R. I. (See adv. index, end of book)

Solder Mfrs.

(See also Soldering Paste, Salts & Stick)
American Metal Co., 52 B'way, N. Y.
Allen, L. B. Co. (Self Fluxing), 1321 Columbia, Chicago, Ill.
BERGER MFG. CO., Main Office & Works, Canton, O. (See adv. index & branch offices, end of book)
Blatchford, E. W. Co., 70 N Clinton, Chicago, Ill.
Brady Brass Co., 204 10th, Jersey City, N. J.
Butler, Sam'l & Co., 549 Atlantic av, Boston, Mass.
Bruce & Cook, 186 to 190 Water, N. Y.
Chadwick-Boston Lead Co. (Bar, Block, Wire, Plumbers', Tinman's & Came or Glaziers'), Boston, Mass.
Clum & Atkinson, 575 Lyell, Rochester, N. Y.
Columbia Smelting & Refining Works 366 West, New York
Colwell Lead Co., 63 Centre, New York
Crane-Hawley Co., Court & Sycamore, Cincinnati, O.
Delaware Metal Refinery, 18th c Wash'n av, Phila., Pa.
Detroit Lead Pipe & Sheet Lead Works, 57 2d, Detroit, Mich.
Eagle Smelting & Refining Works (Wire Segment, Bar, Drop & Casing Triangle, etc.), 738 E 14th, New York
Eureka Tempered Copper Works, North East, Pa.
Follansbee Bros. Co., 3d & Liberty avs., Pittsburg, Pa.
Gilbert, A. & Sons Brass Foundry, St. Louis, Mo.
Goldberg & Rathman, 289 Commercial, Boston, Mass.
Graham, Jas. & Co., New Haven, Conn.

Great Western Smelting & Refining Co., 173 W Kinzie, Chicago, Ill.
Hendricks Bros. (Plumbers & Brazers), 49 Cliff, N. Y.
Hiertz, Theo. & Son, St. Louis, Mo.
Illinois Smelting & Refining Co., cor Kinzie & Peoria, Chicago, Ill.
Koch & Fox, 22d & Glenwood av, Phila., Pa.
Kramer, H. & Son, 401 S Canal, Chicago, Ill.
Lang, E. M. Co. (Wire, Drop & Stick), Portland, Me.
Lausten Lead Works, 78 Pratt, Chicago, Ill.
Lehman Bros., Hoboken, N. J.
Leroy Shot & Lead Works, 261 Water, N. Y.
Lewis, Jno. T. & Bro. Co., 231 S Front, Phila., Lissberger, B. & Co. (for All Purposes), 738 E 14th, N. Y.
Lissberger, Marks & Son, 397 W 12th, N. Y., & 375 Driggs av, Brooklyn, N. Y.
Lukens, Thos. F. Metal Co., 238 N. 4th, Phila., Pa.
LUMEN BEARING CO., Buffalo, N. Y. (See adv. index, end of book)
MERCHANT & EVANS CO. (Inc.), (Bar, Tri-Angular & Capping Wire & Segments), 517 Arch, Phila., Pa. (See adv. index & branch offices, end of book)
Millar, Charles & Son Co., Utica, N. Y.
More-Jones Brass & Metal Co., 3138 N B'way, St. Louis, Mo.
Nassau Smelting & Refining Works, 607 W 29th, N. Y.
National Brass & Metal Co., 256 3d av, S. Minneapolis, Minn.
National Lead Co., 100 William, N. Y.
North American Smelting Co., 9th c Thompson, Phila., Pa.
Pacific Metal Works, San Francisco, Cal., & Portland, Oreg.
Pearl Smelting & Refining Works, 2507 E Cumherland, Phila., Pa.
Pierce, Butler & Pierce Mfg. Co., Syracuse, N. Y.
Powell, W. G. & Co., Bridgeport, Conn.
Raymond Lead Co., 51 W Lake, Chicago, Ill.
Richards & Co. (Inc.), 200 Causeway, Boston, Mass.
Rochester Lead Works, 382 Exchange, Rochester, N. Y.
Rogers Metal Works, Kansas City, Mo.
Rumsey, L. M. Mfg. Co., 806 N 2d, St. Louis, Mo.
Sanborn, Jno. & Son, 217 Water, New York
Schultz, A. & Co. (Wire, Drop, etc.), Baltimore, Md.
Schweitzer, Wm. J. (Modern), 491 Driggs av, Brooklyn, N. Y.
Selby Smelting & Lead Co. (Wiping, Wire, Bar, Strip, Drop, etc.), San Francisco, Cal.
Star Refining Co., 50 State, Boston, Mass.
Syracuse Smelting Works, Syracuse, N. Y.
Tatham & Bros., 82 Beekman, N. Y., & 223 S 5th, Phila., Pa.
United Lead Co., 71 B'way, New York
UNITED WIRE & SUPPLY CO. (Gold & Silver), 109 Summer, Providence, R. I. (See adv. index, end of book)
Windsor Mfg. Co., 570 Clinton, Milwaukee, Wis.
Woodfall Bros. (Plumbers, Canners, Tanners, etc.), 1105 Fairmount av, Phila., Pa.

Solder (Rosin Core)

Belden Mfg. Co. ("Belden" for Switchboard & Telephone Connections), 194 Michigan, Chicago, Ill.

Soldering Apparatus for Rail Bonding

Smith, Chas. G., 352 Pearl, New York

Soldering Coppers

Ansonia Brass & Copper Co., Ansonia, Conn., & 99 John, N. Y.
Ayars Machine Co. (For Canning Factories, etc.), Salem, N. J.
Clendenin Bros., Baltimore, Md.
Covert Mfg. Co., West Troy, N. Y.
Diamond Mfg. Co., Detroit, Mich.
Emmelmans Bros. Mfg. Co. (Gas), Indianapolis, Ind.
Eureka Tempered Copper Works, Northeast, Pa.
HUNGERFORD, U. T. BRASS & COPPER Co., 497 Pearl, New York
Isele, A. W. & Son, 51 Pitts, Boston, Mass.
Kaufman, A. G. Mfg. Co. (Inc.) (Self Heating), 133 Reade, New York
McArthur, Archibald, Kearney, N. J.
Mansfield Tempered Copper Co., Mansfield, O.

New Haven Copper Co., Seymour, Conn., & 114 Chambers, N. Y.
NIAGARA MACHINE & TOOL
 Works, Buffalo, N. Y. (See adv. index, end of book)
 Osborne, C. S. & Co., 96 Mechanic, Newark, N. J.
 Peck, Stow & Wilcox Co., Southington, Conn.
 Stover Mfg. Co., 165 River, Freeport, Ill.
 Stortz, Jno. & Son, 210 Vine, Phila., Pa.
 Taunton-New Bedford Copper Co., New Bedford & Taunton, Mass.

Soldering (Flux)

(See Soldering Paste, Salts & Stick)

Soldering Frames & Cylinders

Leffler, Chas. & Co. (For Can Makers), 63 Clymer, Brooklyn, N. Y.

Soldering Furnaces

(See Plumbers' & Tinnern's Furnaces.)

Soldering Iron & Blow Torch Combined (Gasoline)

Emmelmann Bros. Mfg. Co. ("Emmelmann"), Indianapolis, Ind.

Soldering Irons (Electric)

American Electric Heating Corporation, Cambridgeport, Mass.
 American Electrical Heater Co., 123 State, Detroit, Mich.
ARCADE MFG. CO., Freeport, Ill.
 (See adv. index, end of book)
 Hadaway Electric Heating & Engineering Co., 228 W B'way, New York
 Southern Electric Co., 423 N. Calvert, Baltimore, Md.
 Star Electric Co., Binghamton, N. Y.
 Vulcan Electric Heating Co. ("Vulcan"), 71 W. Jackson boul., Chicago, Ill.

Soldering Irons (Self Heating)

Ams, Max Machine Co. (For Cannerns, etc.), Mt. Vernon, N. Y.

Soldering Machines

(See Machinery.)

Soldering Paste, Salts & Stick

(See also Solder Mfrs.)

Allen, L. B. Co. (Stick, Paste & Salts), 1321 Columbia av, Chicago, Ill.
 Ashley, T. C. & Co., 54 High, Boston, Mass.
 Atlantic Chemical Works ("Victor"), 9 Seabring, Brooklyn, N. Y.
 Benson, A. R. (Yeager's Salts), Hudson, N. Y.
 Burnley Battery & Mfg. Co. (Paste & Stick), Painsville, O.
 Callahan, Geo. & Co. (Fluid), 218 Front, N. Y.
 Chase & Bissell ("Peerless" Stick), Versailles, Pa.

Chicago Solder Co., 44 Union, Chicago, Ill.
 Cochrane Chemical Co. (Flux), Boston, Mass.
 Crescent Co. ("Crescent" Paste & Sticks), Valparaiso, Ind.
 Elliott Chemical Works, Newton, Mass.
 Elliott Co., 100 Purchase, Boston, Mass.
 General Chemical Co. (Salt & Solution), 25 Broad, New York
 Highland Electro Chemical Mfg. Co. (Insulating Soldering Paste), Connellsville, Pa.
 Hubbs-Near Electrical Mfg. Co. ("Electra" Paste), Butler, O.
 Manhattan Electric Supply Co., 17 Park Pl., N. Y.
 Marlow Chemical Co. (Flux, Stick, Paste, Slabs, etc.), Warren & Bay, Jersey City, N. J.
 Neely Electric Co. ("Neco"), Washington, D. C.
 Paragon Insulating Co., Erie R. R., nr Forest, Cleveland, O.
 Reade Mfg. Co. (Fluid), 542 W 22d, N. Y.
 Schneider, Emil (Salts), 541 Riveride av, Newark, N. J.
 Schultz, A. & Co. (Fluid), Baltimore, Md.
 Standard Electric Construction Co. (Freeman's Paste), 14 N Water, Rochester, N. Y.
WALSH, JNO. F. CO. ("NOCOROSO")
 Paste, Stick & Salts, Pittsfield, Mass.
 (See adv. below)

Soldering Sets

Arcade Mfg. Co., Freeport, Ill.
 Barrett, W. L., Bristol, Conn.
 Millers Falls Co., 28 Warren, N. Y. City.
 Peck, Stow & Wilcox Co., 27 Murray
 Smith & Hemenway Co., 108 Duane, N. Y. City
 Thompson, Chas. A. Co. ("Solderine"), 41 Cortlandt, N. Y. City
 Williams, Chas. & Co., Bigelow, N. Y.
 Winn, Wm. R. ("Non-Corrosive"), 143 Maiden Lane, N. Y. City

*Solenoids (Magnetic)

ELECTRIC CONTROLLER & SUPPLY
 Co., Cleveland, O. (See adv. index & branch offices, end of book)

Sorters (Bean & Pea)

Bacon Mfg. Co., Pontiac, Mich.
 Ferrell, A. T. & Co., Saginaw, Mich.
 Johnson & Field Mfg. Co., Racine, Wis.

Sorters (Potato)

(See Potato Sorters.)

Aspinwall Mfg. Co., Jackson, Mich.
 Brown, Peter & Son, Greeley, Col.
 Denver Iron & Wire Works Co. (Screens), Denver, Col.
 Dowden Mfg. Co., Prairie City, Ia.
 Hench & Dromgold Co. (Peach & Potato Sorter), Hoover, Prout & Co., Avery, O. York, Pa.
 Johnston, A. H., Lucerne, Col.
 Miller Bros. (Picker), Rochester, Mich.
 Nowvlock, J. H. & Sons (Separator & Grader), Elocinsburg, Pa.
 Pearson Mfg. Co., Edwardsville, Kans.

*Sounding Lines (Deep Sea)

AMERICAN STEEL & WIRE CO.,
 The Rookery, Chicago, Ill. (See adv. index & branch offices, end of book)

Sowers (Hand Seed)

Allen, S. L. & Co. (Planet, Jr.), 1017 Market, Philadelphia, Pa.
 Ames Plow Co., Quincy Hall, Boston, Mass.
 Bachelor, S. W., Goshen, Ind.
 Champion Seeder Co., Urbana, Ind.
 Christen, F. & Son ("Premier" Broadcast), St. Louis, Mo.
 Everett, J. A. (Broadcast), Indianapolis, Ind.
 Foster, C. A. (Broadcast), Elkhart, Ind.
 Goodell Co., Antrim, N. H.
 Humphrey & Sons (Broadcast), Joliet, Ill.
 Mast, P. P. & Co., Springfield, O.
 Pratt, Wm. E. Mfg. Co., 91 Lake, Chicago
 Rittenhouse, S. B. (Broadcast), S Bend, Ind.
 Trojan Mfg. Co. (Broadcast), South Bend, Ind.
 Whitman Agricultural Co., 6906 S B'way, St. Louis, Mo.

Sowers (Plaster)

Empire Drill Co., Shortsville, N. Y.
 Foster & Williams Mfg. Co., Racine, Wis.
 Williams Bros. (Broadcast Plaster or Grain), Ithaca, N. Y.

Sowers & Drills (Hand Seed Garden)

Allen, S. L. & Co. (Planet, Jr.), 1017 Market, Philadelphia, Pa.
 Ames Plow Co., Quincy Hall, Boston, Mass.
 Bacon Mfg. Co. (Seed Drills), Pontiac, Mich.
 Bateman Mfg. Co., Grenloch, N. J.
 Buckley, R. C. (Garden Drills), Peoria, Ill.
 Deere & Mansur Co. (Garden Seeders), Moline, Ill.
 Everett, J. A., Indianapolis, Ind.
 Genung, W. H. & Son (Iron King), Madison, O.
 Jelliff, C. O. & Co. (Onion Seed, Drills, etc.), Southport, Conn.
 Keller Mfg. Co. (Seeder), Albany, Pa.
 Whitman & Barnes Mfg. Co. ("Pearce," "Cyclone," "Chicago"), West Pullman, Chicago, Ill.

Sowers & Seeders

(See Seeders & Sowers.)

Spade Mfrs

(See Shovel & Spade Mfrs.)

Spades (Tiling)

Iwan Bros., Streator, Ill.

Span Wire or Rising Forks

(See Forks, Rising.)

Spars

Fraser Hollow Spar & Boat Co., Greenport, (L. I.), N. Y.
 Gamewell, Arthur, Seattle, Wash.

Soldering Paste, Sticks and Salts should be the best

The "Nocoroso" Soldering Compounds

are the best and are Endorsed by Leading Electrical Manufacturers

DYNAMO BRUSHES, (SHEET METAL)
 COMMUTATOR LUBRICATING COMPOUNDS

JOHN F. WALSH COMPANY, Pittsfield, Mass.

We are putting out sample orders for trial

SEND FOR ONE

Pigeon-Fraser Hollow Spar Co.

Use no other make—Our spars are by far the best.

WHY?

Because we have made nothing but spars since 1830.

Because we were the Original Builders of Hollow Spars.

Because our Hollow Spar Cement has no Equal.

Because almost every designer in this and Foreign Countries uses and recommends our Hollow Spars.

Polished Bronze Fittings and Oak Mast Hoops are the very best in the Market.



OUR SPECIALTIES OF

Hollow Sculls and Hollow Sweeps are Winners. Such Men as Greer and Ten Eyke recommend and use our Sweeps and Sculls.

Pigeon-Fraser Hollow Spar Co.

Cable Address
"SPARS"

116 Condor St., East Boston, Mass.



LABOR SAVING APPLIANCES, TOOLS and SUPPLIES

We have the best facilities in this country for furnishing to our subscribers, free of charge, the names and addresses of the leading manufacturers of the latest improved machinery, tools and appliances etc., for working and handling all kinds of metal, wood, stone, slate, earth, minerals, etc., such as :

Air, Gas and Gasoline Compressors

Cranes for all purposes

Pneumatic Tools and Appliances

Derricks, Hand or Power

Hoists, Hand or Power

Elevators, Electric, Hydraulic, etc.

Excavators and Dredges

Conveyors for all kinds of materials

Castings of all kinds

Steam Shovels

Machine or Hand Tools

Machinery for all Purposes

Engines for all Purposes

Electric Generators and Motors

Drills for all Purposes

Power Transmission

Agricultural Implements

Locomotives, Cars, etc.

Tools of Every Description.

Complete equipment for Railroad, Machine Shop, Foundry, Mine, Quarry Mill, Factory, Electric and Gas Lighting, etc., in fact everything wanted for manufacturing plants or to carry out economically large contracts.

S. E. HENDRICKS CO.,

74 Lafayette St., NEW YORK



Lawley, Geo. & Son Corp'n, So. Boston, Mass.
 Lewis & Hughes, Seattle, Wash.
 Palmer Boat Co., Highland Park, Ill.
PIGEON HOLLOW SPAR CO. (Clear
 White Spruce, Hollow & Solid Spars, 20 to
 120 ft), 116 Coudor, East Boston, Boston,
 Mass. (See adv. index, end of book)

Speaking Tubes

Berger Bros. Co., 237 Arch, Phila., Pa.
BERGER MFG. CO., Main Office &
 Works, Canton, O. (See adv. index & branch
 offices, end of book)
 Ivins, Ellwood (Seamless), Oakline Station,
 Lamb & Ritchie Co., Cambridge, Mass.
 Ostrander, W. R. & Co., 22 Dey, N. Y.
 Van Wagoner-Linn Construction Co., 110 W
 28th, New York
 Walsh, Owen Mfg. Co., 19 Roosevelt, N. Y.

*Spear Heads (Flag & Banner)

NOVELTY WOOD TURNING CO.,
 Norway, Me. (See adv. index, end of book)

Spears (Fish)

Arcade Mfg. Co., Freeport, Ill.

*Specifications for Architects & Builders

SOLTMANN, E. G.
 (also Everything for the Architect, Engineer
 & Draughting Room), 125 E 42d, New York.
 (See adv. index, end of book)

*Speedometers

(See also Meters, Speed Recording)

SCHAEFFER & BUDENBERG MFG.
 Co. (for Motor Cars), Foxboro, Mass. (See
 adv. index & branch offices, end of book)

Speed Recording (Railway)

Railway Speed Recorder Co., Kent, O.

Speed Transmission (Reeves' Variable System of)

Reeves Pulley Co., Columbus, Ind.

Spelter Mfrs.

American Metal Co. (Ltd.), 52 B'way, N. Y.
 American Smelting & Refining Co., 71 B'way,
 N. Y.
 Behr & Steiner, 81 Fulton, N. Y.
 Blatchford, E. W. & Co., 70 N Clinton, Chi-
 cago, Ill.
 Butter, Sam'l & Co., 549 Atlantic av, Boston,
 Mass.
 Cherokee Lanyon Spelter Co., Springfield, Mo.
 Works, Gas City, Kans.
 Davol, Jno. & Sons, 135 William, New York
 Edgar Zinc Co., Cherryvale, Kans.
 Graub Mining & Smelting Co., St. Louis, Mo.
 Works, Granby, Mo.
 Great Western Smelting & Refining Co., 179
 W. Kinzie, Chicago, Ill.
 Hayman, Mich'l & Co., Buffalo, N. Y.
 Hegeler Bros., Danville, Ill.
 Hendricks Bros., 49 Cliff, N. Y.
 Hiertz, Theo. Metal Co., 10th & Poepping,
 St. Louis, Mo.
 Illinois Smelting & Refining Co., cor Peoria &
 Kinzie, Chicago, Ill.
 Illinois Zinc Co., Peru, Ill.
 Kramer, H. & Co., 353 S. Canal, Chicago, Ill.
 Lanyon Zinc Co., 308 N 6th, St. Louis, Mo.,
 & 220 B'way, N. Y. Works, Iola, Kans.
 Matthiessen & Hegeler Zinc Co., La Salle, Ill.
 Mineral Point Zinc Co., 204 Dearborn, Chi-
 cago. Works, Mineral Point, Wis.
 New Jersey Zinc Co. ("Horsehead"), 71 B'way,
 N. Y.

Prime Western Spelter Co., Gas. Kan.
 Raymond Lead Co., 51 W Lake, Chicago, Ill.
 Sandoval Zinc Co., 122 N Peoria, Chicago, Ill.
 Works, Sandoval, Ill.
 Shimer, H. M. & Co. ("Golden Rod"), 19th &
 Washington, av, Phila., Pa.
 Trench, C. S. & Co., 81 Fulton, N. Y.

Trotter, Nathan & Co., 36 N Front, Phila., Pa.
 United Zinc & Chemical Co., Kansas City, Mo.
 Works, Argentine & Iola, Kans.
 Vogelstein, L. & Co., 90 Wall, New York
 Woodfall Bros., 1105 Fairmount av, Phila., Pa.

Spherometers

Smith, Ernest G. Co. ("Columbia"), Colum-
 bia, Pa.

*Spice Mills

BROWN, A. & F. CO., 25 Dey, New
 York. Works, Elizabeth, N. J. (See adv.
 index, end of book)

Spiegel Silico

Dana & Co., 32 B'way, New York
LEAVITT, C. W. & CO., 222 B'way, New
 York. (See adv. index, end of book.)

Spiegeleisen

Carucgie Steel Co., Pittsburg, Pa.
 Colorado Fuel & Iron Co., Denver, Colo.
 Crocker Bros. (German), 99 John, N. Y., &
 Penna. bldg, Phila., Pa.
 Dana & Co. (English & German), 32 B'way, N.Y.
LEAVITT, C. W. & CO. (English &
 German), 222 B'way, New York. (See adv.
 index, end of book)
 New Jersey Zinc Co., 71 B'way, N. Y.
 Samuel, Frank (Firm of), 1502 Market, Phila.,
 Pa.
 Tennessee Coal, Iron & Railroad Co., Birming-
 ham, Ala.

Spike Machinery

(See Machinery, Spike.)

Spike Mfrs.

(Under this heading see Sub-Classifications)

American Iron & Steel Mfg. Co., Lebanon, Pa.
AMERICAN STEEL & WIRE CO.,
 (Wire), The Rookery, Chicago, Ill. (See adv.
 index & branch offices, end of book)
 Ames, W. & Co., Washington c Steuben, Jersey
 City, N. J.
 Colorado Fuel & Iron Co., Denver, Col.
 Davis Bros., N 29th & Bristol, Phila., Pa.
 Dilworth, Porter & Co., German Nat'l Bank
 bldg, Pittsburg, Pa., & 45 Cliff, New York
 Duncannon Iron Co., 122 Race, Phila., Pa., &
 Duncannon, Pa.
 Godcharles, F. A. Co. (Cut), Milton, Pa.
 Hollidayshurg Iron & Nail Co. (Cut), Hollidays-
 burg, Pa.
 Hoopes & Townsend Co., 1330 Buttonwood,
 Phila., Pa.
 Jones & Laughlin Steel Co., Pittsburg, Pa.
 Judson Mfg. Co., San Francisco, Cal.
 Kansas City Bolt & Nut Co., Kansas City, Mo.
 Kelly Nail & Iron Co. (Cut), Ironton, O.
 La Belle Iron Works, Steubenville, O.
 Lanz, Matthew & Sons, 101 S 29th, Pittsburg
 Norton Iron Works (Inc.), Asblaud, Ky.
 Old Dominion Iron & Nail Works Co., Richmond,
 Penn Iron Co., Lancaster, Pa.
 Phillips, Townsend & Co., 4th & Glenwood av,
 Pottsville Bolt Co., Pottsville, Pa.
 Republic Iron & Steel Co., Frick bldg. Annex,
 Pittsburg, Pa.
 Severance, S. Mfg. Co., Glassport, Pa.
 Sheffield Rolling Mill Co., Sheffield, Ala.
 Sylvester Co., 70 Kilby, Boston, Mass.
 Tredegar Co., Richmond, Va.
 Van Alen & Co. (Cut All Sizes), Northumber-
 land, Pa.
 Wheeling Steel & Iron Co. (Steel Cut), Wheel-
 ing, W. Va.
 Whitaker-Glessner Co. (Steel Only), Wheeling,
 W. Va.

Spikes (Boat)

(See Spikes, Ship, Dock & Bridge.)

Spikes (Bridge)

(See Spikes, Ship, Dock & Bridge.)

Spikes (Composition, Boat)

Salem Nail Co., 279 Pearl, New York
 Taunton-New Bedford Copper Co., Taunton,
 Mass., & New Bedford, Mass.

Spikes (Countersunk)

Lanz, Matthew & Sons, 101 S 29th, Pittsburg,
 Pa.

Spikes (Cut)

Brooke, E. & G. Iron Co., Birdshoro, Pa.
 Duncannon Iron Co., 122 Race, Phila., Pa., &
 Duncannon, Pa.
 Godcharles, F. A. Co., Milton, Pa.
 Hollidayshurg Iron & Nail Co., Hollidaysburg,
 Kelly Nail & Iron Co., Ironton, O. Pa.
 La Belle Iron Works, Steubenville, O.
 Norton Iron Works, Ashland, Ky.
 Old Dominion Iron & Nail Works Co., Richmond,
 Salem Nail Co., 279 Pearl, N. Y. Va.
 Van Alen & Co., Northumberland, Pa.
 Wheeling Steel & Iron Co., Wheeling, W. Va.
 Whitaker-Glessner Co., Wheeling, W. Va.

Spikes (Dock or Wharf)

(See Spikes, Ship, Dock & Bridge)

*Spikes (Hand)

McMILLAN'S, W. H. SONS, 153 South,
 New York. (See adv. index, end of book)

Spikes (Hand Made)

Davis Bros., 29th & Bristol, Phila., Pa.
 Koblmann's Peter Sons, 875 Lorimer, Brooklyn,
 N. Y.
 Starke, Adolph (Est. of), 441 E 10th, New York
 Ulmer, Theo. C., 336 Richmond, Phila., Pa.

Spikes (Railroad Track)

American Iron & Steel Mfg. Co. (Pressed or
 Rolled Points), Lebanon, Pa.
AMERICAN STEEL & WIRE CO., The
 Rookery, Chicago, Ill. (See adv. index &
 branch offices, end of book)
 Ames, W. & Co., Washington c Steuben, Jersey
 City, N. J.
CAREY, GEO. H. (Jobber), 1 B'way,
 New York. (See adv. index, end of book)
 Colorado Fuel & Iron Co., Denver, Colo.
 Davis Bros., N 29th & Bristol, Phila., Pa.
 Dilworth, Porter & Co., German Nat'l Bk. bldg,
 Pittsburg, Pa., & 45 Cliff, New York
 Elyria Iron & Steel Co., Elyria, O.
 Hirsch Rolling Mill Co., St. Louis, Mo.
 Illinois Steel Co., Rookery, Chicago, Ill., & 71
 B'way, N. Y.
 Jones & Laughlin Steel Co., Pittsburg, Pa.
 Judson Mfg. Co., San Francisco, Cal.
 Kansas City Bolt & Nut Co., Kansas City, Mo.
 Penn Iron Co., Lancaster, Pa.
 Pottsville Bolt Co., Pottsville, Pa.
 Republican Iron & Steel Co., Frick hldg Annex,
 Pittsburg, Pa.
 Scranton Bolt & Nut Co., Scranton, Pa.
 Sellers Mfg. Co., 27 W Chicago av, Chicago,
 Severance, S. Mfg. Co., Glassport, Pa. Ill.
 Sylvester Co., 70 Kilby, Boston, Mass.
 Tredegar Co., Richmond, Va.

Spikes (Rubber)

Morgan & Wright (Inc.), 226 Jefferson av.,
 Detroit, Mich.

Spikes (Ship, Dock & Bridge)

American Iron & Steel Mfg. Co., Lebanon, Pa.
AMERICAN STEEL & WIRE CO.,
 The Rookery, Chicago, Ill. (See adv. index
 & branch offices, end of book)
 Ames, W. & Co., Washington c Steuben, Jersey
 City, N. J.
CAREY, GEO. H. (Jobber), 1 B'way,
 New York. (See adv. index, end of book)
 Colorado Fuel & Iron Co., Denver, Col.
 Davis Bros., N 29th & Bristol, Phila., Pa.
 Detroit Ship Building Co. (Brass Dept.), De-
 troit, Mich.
 Dilworth, Porter & Co., German Nat'l Bk. hldg,
 Pittsburg, Pa., & 45 Cliff, New York
 Hoopes & Townsend Co., 1330 Buttonwood,
 Phila., Pa.
 Jones & Laughlin Steel Co., Pittsburg, Pa.
 Judson Mfg. Co., San Francisco, Cal.
 Kansas City Bolt & Nut Co., Kansas City, Mo.
 Koblmann's, Peter Sons (Hand-Made & Galvan-
 ized), 483 Lorimer, Brooklyn, N. Y.
 La Belle Iron Works, Steubenville, O.
 Lanz, Matthew & Sons, 101 S 29th, Pittsburg,
 Pa.
 Michigan Bolt & Nut Works, Detroit, Mich.

Norton Iron Works (Inc.), Ashland, Ky.
Old Dominion Iron & Nail Works Co., Richmond, Va.
Penn Iron Co. (Ltd.), Lancaster, Pa.
Republic Iron & Steel Co., Frick bldg. Annex, Pittsburgh, Pa.

Salem Nail Co., 279 Pearl, N. Y.
Scranton Bolt & Nut Co., Scranton, Pa.
Severance, S. Mfg. Co., Glassport, Pa.
Sheffield Rolling Mill Co., Sheffield, Ala.
Sylvester & Co., 8 Oliver, Boston, Mass.
Tredegar Co., Richmond, Va.

Spiques (Track)

(See Spiques, Railroad Track.)

Spiques (Wire)

AMERICAN STEEL & WIRE CO.,
The Rookery, Chicago, Ill. (See adv. index
& branch offices, end of book)
Corbiu Screw Corporation, New Britain, Conn.
Kokomo Steel & Wire Co., Kokomo, Ind.
Wire Goods Co., Worcester, Mass.

Spindles (Clamp)

Gem Mfg. Co. ("Gem," for Holding Buffing &
Polishing Wheels, etc.), Pittsburgh, Pa.

Spindles (Lathe)

Detroit Shipbuilding Co. (Brass Dept.), Detroit, Mich.
Seamless Tube Co. of America, Frick bldg., Pittsburgh, Pa.
Shelby Steel Tube Co., Frick bldg., Pittsburgh, Pa.

Spinning (Metal)

Acoru Brass Mfg. Co., 51 N Peoria, Chicago, Ill.
Boekel, Wm. & Co., 518 Vine, Phila., Pa.
Braun, David J. Mfg. Co., 135 W Wash'n, Chicago, Ill.
Evansville Stamping Works, Evansville, Ind.
Glese & Goodyear Co. (German Silver, Copper, Brass & Steel), 260 S 5th, Phila., Pa.
Goodwin & Kintz Co. (Brass, Steel, Aluminum, etc.), Winsted, Conn.
Hergert, Theo. E., 384 2d av, New York
Ideal Gas & Electric Fixture Co., 142 Worth, New York
Ireland & Matthews Mfg. Co. (German Silver, Copper, Brass & Steel), Detroit, Mich.
Klaue, Chas., 1204 Nectarine, Phila., Pa.
Miller & Doing, 83 Wash'n, Brooklyn, N. Y.
Naugatuck Mfg. Co., Naugatuck, Conn.
Smith, Chas. G., 352 Pearl, New York
Turner Brass Works (all Metals), 66 Michigan, Chicago, Ill.
Twincos Stamping Works, Rome, N. Y.

*Spiques (Colonial)

BERRY BROS. (Limited), Main Office
& Factory, Detroit, Mich. (See adv. index
& branch offices, end of book)

Spiques (Wood)

Standard Naval Stores Co., Jacksonville, Fla.
Willcox-Ives Oil Co., Savannah, Ga.

Spittoons (Iron)

(See Cuspidores.)

Spittoons (Steel Factory)

Ohio Mfg. Co., Painesville, O.

Sponges (Rubber)

Diamond Rubber Co., Akron, O.
Faultless Rubber Co. (for Stamp Makers), Ashland, O.
Goodrich, B. F. Co (for Rubber Stamps, etc.), Akron, O.
Morgan & Wright (Inc.), 226 Jefferson av., Detroit, Mich.

Spool Mfrs

(See Textile Machinery, Supplies, etc.)

Spools (Pressed Steel)

MOSSBERG, FRANK CO., Attleboro, Mass.
(See adv. index, end of book)

Spoons (Aluminum)

Wagner Mfg. Co., Sidney, O.

Spoons (Basting & Mixing)

Cassady-Fairbanks Mfg. Co., 6106 La Salle,
Potter Mfg. Co., Geneva, O. Chicago, Ill.

Spoons (Digging)

(See also Shovel & Spade Mfrs.)

Hubbard & Co., Pittsburgh, Pa.
Myers, H. M. Co. (Telegraph, etc.), Beaver Falls, Pa.
Oshkosh Logging Tool Co., Oshkosh, Wis.
Pittsburg Shovel Co., Frick bldg., Pittsburgh, Pa.
Works, Leechburg, Pa.

Spoons (Measuring)

Landers, Frary & Clark ("Universal" & "Original"), New Britain, Conn.

Spoons (Rock Drilling)

Falls Mfg. Co., San Francisco, Cal.

Spoons (Telegraph)

Hussey-Blns Shovel Co. (Crucible Cast Steel), Pittsburgh, Pa. Works, Charleroi, Pa.
Maynard, C. A., Northampton, Mass.
Union Furnace Mfg. Co., Union Furnace, Pa.

Spoons (Tin)

Dover Stamping & Mfg. Co., Cambridge, Mass.
Humphrey, H. W., Unionville, Conn.
Mix, G. I. Co., Yalesville, Conn.
PARKER, CHAS. CO., Meriden, Conn. (See adv. index, end of book)
Wallace, R. & Sons Mfg. Co., Wallingford, Conn.

Spoons (Wooden)

Peirce, W. E. & Co., Millford, N. H.

*Sprayers (Foundry)

OSBORN MFG. CO. (Lighting), 5401
Hamilton av, N. E., Cleveland, O. (See adv.
index, end of book)

Spraying Apparatus

(See Pumps, Spraying.)

Spreaders (Concrete)

Briggs, J. E. Labor Saving Specialty Co.
("Lightning"), Waterloo, Ia.

Spreaders (Lime)

Spangler Mfg. Co., York, Pa.

Spreaders (Manure)

Apex Mfg. Co. ("Apex"), Bloomington, Ill.
American Harrow Co., Detroit, Mich.
Corn Belt Mfg. Co., Waterloo, Ia.
International Harvester Co. of America, 7 Monroe, Chicago, Ill., & Auburn, N. Y.
Kemp, J. S. Mfg. Co., Newark Valley, N. Y.
Kemp & Burpee Mfg. Co., Syracuse, N. Y.
Newark Machine Co., Newark, O.
Richardson Mfg. Co., Worcester, Mass.
Smith Mfg. Co. ("Great Western"), 158 E. Harrison, Chicago, Ill.
Ross, E. W. Co., Springfield, O.
Spangler Mfg. Co. (Broadcast), York, Pa.
Waterloo Spreader Mfg. Co., Waterloo, Ia.

Spreaders (Rubber Mill)

AITON MACHINE CO., 126 Liberty,
New York. (See adv. index, end of book)
American Tool & Machine Co., 109 Beach, Boston, Mass.
Birmingham Iron Foundry, Derby, Conn.
New England Butt Co., Providence, R. I.

*Spreaders (Tar)

WILSON, F. CORTEZ & CO., 239 Lake,
Chicago, Ill. (See adv. index, end of book)

Spring Coiling Machines

(See Machines, Spring Coiling.)

Spring Cotters & Keys

(See Cotters, Spring; also Keys, Flat Spring & Riveted)

Spring Dampener

Illinois Car & Equipment Co., Old Colony bldg., Chicago, Ill.
McCord & Co. (McCord), Old Colony bldg., Chicago, Ill.

Spring Hinges

(See Hinges, Spring Butt.)

Springs (Agricultural Implement)

(See also Springs, Machinery.)

AMERICAN STEEL & WIRE CO.,
The Rookery, Chicago, Ill. (See adv. index
& branch offices, end of book)
Babcock Mfg. Co., Leonardsville, N. Y.
BRIDGEPORT CHAIN CO., Bridgeport,
Conn. (See adv. index, end of book)
Cambria Steel Co. (Gautier Dept.), Arcade
bldg., Phila., Pa. Works, Johnstown, Pa.
Cleveland Wire Spring Co., 38th & Hamilton
N. E., Cleveland, O.
Crucible Steel Co., Frick bldg., Pittsburgh, Pa.
Fischer, Chas. Spring Co., 145 Centre, New York
FORT PITT SPRING & MFG. CO., Farmers
Bank bldg., Pittsburgh, Pa. Works,
McKees Rocks, Pa. (See adv. on following
page; branch offices, end of book)
Gihson, Wm. D. Co., 27 E. Huron, Chicago, Ill.
Harrow Spring Co. (Cultivator Sectional, etc.), Kalamazoo, Mich.
Morgan Spring Co., Worcester, Mass.
New York Wire & Spring Co., Hoboken, N. J.
Pittsburg Spring & Steel Co., Farmers' Bank
bldg., Pittsburgh, Pa.
Railway Steel Spring Co., 71 B'way, N. Y.
Raymond Mfg. Co. (Ltd.) (Steel & Wire), Cor-
sabin Machine Co., Montpelier, Vt. ry, Pa.
Vehicle & Implement Spring Co., Pontiac, Mich.
Wilson, Roht. P., 313 Market, Newark, N. J.

Springs (Air Brake)

AMERICAN STEEL & WIRE CO.,
The Rookery, Chicago, Ill. (See adv. index
& branch offices, end of book)
Cleveland Wire Spring Co., 38th & Hamilton
N. E., Cleveland, O.
Fischer, Chas. Spring Co., 145 Centre, New York
FORT PITT SPRING & MFG. CO., Farmers
Bank bldg., Pittsburgh, Pa. Works,
McKees Rocks, Pa. (See adv. on following
page; branch offices, end of book)
Gibson, Wm. D. Co., 27 E. Huron, Chicago, Ill.
Miller & Van Winkle, 18 Bridge, Brooklyn,
Morgan Spring Co., Worcester, Mass. N. Y.
Pittsburg Spring & Steel Co., Farmers' Bank
bldg., Pittsburgh, Pa.
Railway Steel Spring Co., 71 B'way, N. Y.
Raymond Mfg. Co. (Ltd.), Corry, Pa.
Silver, W. S. & Co., 347 W. B'way, New York

Springs (Automobile)

(See also Springs, various kinds; also Shock Absorbers.)

Cleveland-Canton Spring Co., Canton, O.
Cleveland Wire Spring Co. (Wire), Cleveland, O.
Detroit Wire Spring Co. (Wire), Detroit, Mich.
Fischer, Chas. Spring Co., 145 Centre, N. Y.
FORT PITT SPRING & MFG. CO., Farmers
Bank bldg., Pittsburgh, Pa. Works,
McKees Rocks, Pa. (See adv. on following
page; branch offices, end of book)
Gem Wire Fence Co., Pontiac, Mich.
Kalamazoo Spring & Axle Co., Kalamazoo, Mich.
Lee, Cowen & Bowen Co., Syracuse, N. Y.
Merrill, E. R. Spring Co., 530 W. 28th, N. Y.
Miller & Van Winkle, 18 Bridge, Brooklyn, N. Y.
Palmer, Jos., 333 Rutherford av, Boston, Mass.
Raymond Mfg. Co. (Ltd) (Steel & Wire, Cor-
ry, Pa.
Spring Perch Co., Bridgeport, Conn.
Tuthill Spring SCo., 215 W. Polk, Chicago, Ill.

Springs (Bed)

BRIDGEPORT CHAIN CO., Bridge-
port, Conn. (See adv. index, end of book)
Cuyahoga Spring Works, 810 Champlain,
Cleveland, O.
Hartford Woven Wire Mattress Co., Hartford,
Conn.
Miller & Van Winkle, 18 Bridge, Brooklyn,
N. Y.

Springs (Bicycle)

AMERICAN STEEL & WIRE CO.,
The Rookery, Chicago, Ill. (See adv. index
& branch offices, end of book)
Fischer, Chas. Spring Co., 145 Centre, New
York
Miller & Van Winkle, 18 Bridge, Brooklyn,
N. Y.
Morgan Spring Co., Worcester, Mass.
Raymond Mfg. Co. (Ltd.), Corry, Pa.
Sabin Machine Co., Montpelier, Vt.
Tuck Mfg. Co., Brockton, Mass.

Springs (Bolster)

FORT PITT SPRING & MFG. CO., Farm-
ers' Bank bldg, Pittsburg, Pa.; Works,
McKees Rocks, Pa. (See adv. below; branch
offices, end of book)
Meyer & Co. (Cliff's Patent), Auburn, N. Y.

Springs (Brush Holder)

Eureka Tempered Copper Works, North East,
Pa.
Fischer, Chas. Spring Co., 145 Centre, New
York
Morgan Spring Co., Worcester, Mass.
Railway Steel Spring Co., 71 B'way, N. Y.
Vose Spring Co., 347 W B'way, New York

Springs (Car)

American Spiral Spring & Mfg. Co. (Spiral,
etc.), Shingiss & Bluff, Pittsburg, Pa.
American Spring & Supply Co., 73 Broad, New
York
AMERICAN STEEL & WIRE CO., The
Rookery, Chicago, Ill. (See adv. index
& branch offices, end of book)
Betts Spring Co., 218 Fremont, San Francisco,
Cal.
Brill, J. G. Co., 62d & Woodland av, Phila., Pa.
Diamond State Car Spring Co., Wilmington, Del.
Farist Steel Co., Bridgeport, Conn.
Fischer, Chas. Spring Co., 145 Centre, New
York
FORT PITT SPRING & MFG. CO., Farm-
ers' Bank bldg, Pittsburg, Pa.; Works,
McKees Rocks, Pa. (See adv. below; branch
offices, end of book)
Harrow Spring Co. (Railway & Street Car),
Kalamazoo, Mich.
Iron City Spring Co., Allegheny, Pa.
Lehigh Valley Spring Works, Wilmington, Del.
Ludlum Steel & Spring Co. (Crucible Cast Steel
Car & Locomotive), Pampton, N. J.
McGuire-Cummings Mfg. Co., 122 N Sangamon,
Chicago, Ill.
Miller & Van Winkle, 18 Bridge, Brooklyn,
N. Y.
Morgan Spring Co., Worcester, Mass.
Phoenix Car Spring Co. (Car & Tender), Rook-
ery bldg, Chicago, Ill. Works: Joliet, Ill.

Pittsburg Spring & Steel Co., Farmers' Bank
bldg., Pittsburg, Pa.
Railway Steel Spring Co., 71 B'way, N. Y.
Rowland, Wm. & Harvey, Frankford, Phila.,
Pa.
Silver, Wm. S. & Co., 347 W B'way, New York
Simplex Railway Appliance Co. (Coil & Ellip-
tic), Hammond, Ind., & 42 B'way, New York
Union Spring & Mfg. Co. (Coil & Elliptic),
Farmers Bank bldg, Pittsburg, Pa. Works:
New Kensington, Pa.
Vose Spring Co., 347 W B'way, New York

Springs (Car Fender)

Fischer, Chas. Spring Co., 145 Centre, New
York
FORT PITT SPRING & MFG. CO., Farm-
ers' Bank bldg, Pittsburg, Pa.; Works,
McKees Rocks, Pa. (See adv. below; branch
offices, end of book)
Harrow Spring Co., Kalamazoo, Mich.

Springs (Car Seat)

American Spiral Spring Co., Pittsburg, Pa.
AMERICAN STEEL & WIRE CO., The
Rookery, Chicago, Ill. (See adv. index
& branch offices, end of book)
BRIDGEPORT CHAIN CO., Bridge-
port, Conn. (See adv. index, end of book)
Cook Spring Co., 247 Centre, New York
Detroit Wire Spring Co. (Wire), Detroit, Mich.
Fischer, Chas. Spring Co., 145 Centre, New
York
Gibson, Wm. D. Co., 27 E Huron, Chicago, Ill.
Harrow Spring Co., Kalamazoo, Mich.
Hartford Woven Wire Mattress Co., Hartford,
Conn.
Meyer & Co. (Cliff's Patent), Auburn, N. Y.
Miller & Van Winkle, 18 Bridge, Brooklyn,
N. Y.
Miller Wire Spring Co., Bridgeport, Conn.
Morgan Spring Co., Worcester, Mass.

Springs (Carriage & Wagon)

Adams, E. B. & Son (Wagon), Racine, Wis.
Ansted Spring & Axle Co., Connersville, Ind.
Armstrong, J. B. Mfg. Co., Flint, Mich.
Belle City Bolster Spring Co. (Wagon), Racine,
Cleveland-Canton Spring Co., Canton, O. Wis.
Cleveland Fire Spring Co. (Bolster), E 38th
Hamilton, N. E., Cleveland, O.
Concord Axle Co. ("Palmer's" Concord), Pena-
cook, N. H.
Cooper, Geo. & Co., Western Reserve bldg,
Cleveland, O.
Delany, D. & Son, 2 Liberty, Newark, N. J.
Detroit Steel Products Co., 89 Fort E, Detroit,
Mich.
Detroit Wire Spring Co., Detroit, Mich.
Dobbin, C. E. & Co., 172 N Halsted
Fosberg Spring & Gear Co., Rome, N. Y.
Foster Bros. Mfg. Co., Utica, N. Y.
Haggard Wagon Spring Co. (Wagon), Lafayette,
Ind.
HEARTLEY MACHINE, VARIETY
Iron & Tool Works (Wagon Seat), Toledo, O.
(See adv. index, end of book)
Hess-Pontiac Spring & Axle Co., Pontiac, Mich.
Hess Spring & Axle Co., Carthage, Cincinnati.
Higgins Spring & Axle Co., Racine, Wis. Ohio
Hirsch Bros. (Bolster), Milwaukee, Wis.

Indianapolis Bolster Spring Co., 107 S Meridian,
Indianapolis, Ind.
Iron City Spring Co. (Oil Tempered), Allegheny,
Pa.
Kalamazoo Spring & Axle Co., Kalamazoo, Mich.
Keystone Spring Works, 13th & Buttonwood,
Philadelphia, Pa.
King Spring Co., 1410 Niagara, Buffalo, N. Y.
Lee, Cowen & Bowen Co., Syracuse, N. Y.
Lewis Spring & Axle Co., Jackson, Mich.
Liggett Spring & Axle Co., Monongahela City,
Pa.
Lightbody & Foster, South & Allegheny avs,
Allegheny, Pa.
Merrill, F. B. Spring Co., 530 W 28th, N. Y.,
& Jersey City, N. J.
Morgan Spring Co., Worcester, Mass.
Mulholland Spring Co. (Ball Bearing), Dunkirk,
N. Y.
New Haven Spring Co., New Haven, Conn.
Palmer, Jos. (Est. of), 333 Rutherford, Boston,
Mass.
Pontiac Spring & Wagon Works (Bolster), Pon-
tiac, Mich.
Racine Pole & Spring Co. (Bolster), Racine, Wis.
Racine Rice Machinery Co. (Bolster), Racine,
Wis.
Raymond Mfg. Co. (Ltd.), Corry, Pa.
Rowland, Wm. & Harvey, Frankford, Phila.,
Pa.
Sheldon Axle Co., Wilkesbarre, Pa.
Spring Perch Co. (carriage only), Bridgeport,
Conn.
Studebaker Bros., Mfg. Co. (Wagon & Bolster),
South Bend, Ind.
Tuthill Spring Co., 215 W Polk, Chicago, Ill.
Vehicle & Implement Spring Co., Pontiac, Mich.
Wurster, Fred. W. & Co., 375 Kent av, Brook-
lyn, N. Y.

Springs (Children's Carriage, Etc.)

HEARTLEY MACHINE, VARIETY
Iron & Tool Works, Toledo, O. (See adv.
index, end of book)

Springs (Clock, Music Box, Etc.)

AMERICAN STEEL & WIRE CO., The
Rookery, Chicago, Ill. (See adv. index &
branch offices, end of book)
Cary Spring Works, 240 W 29th, New York
Fischer, Chas. Spring Co., 145 Centre, New
York
FORT PITT SPRING & MFG. CO., Farm-
ers' Bank bldg, Pittsburg, Pa.; Works,
McKees Rocks, Pa. (See adv. below; branch
offices, end of book)
Mauros, F. N., Forestville, Conn.
New York Wire & Spring Co., 73 Park av,
Hoboken, N. J.

Springs (Coil or Spiral)

American Spiral Spring & Mfg Co., Shingiss cor
Bluff, Pittsburg, Pa.
AMERICAN STEEL & WIRE CO., The
Rookery, Chicago, Ill. (See adv. index
& branch offices, end of book)
Barnes, Wallace Co. (Small, All Kinds), Brils-
tol, Conn.
Cary Spring Works, 240 W 29th, New York
Chatillon, Jno. & Sons (Cast Steel), 85 Cliff,
New York

FORT PITT SPRING & MFG. CO.

MANUFACTURERS OF

COIL & ELLIPTIC SPRINGS PRESSED STEEL JOURNAL BOX LIDS

Works, McKEES ROCKS, PA.

Offices, FARMERS BANK BLDG., PITTSBURG.

SELLING AGENTS:

Steel & Railway Supply Co., Boston, Mass.
H. A. Clark & Company, New York, N. Y.
Universal Railway Supply Co., Baltimore, Md.
John J. Reilly & Company, Columbus, Ohio.
Railway Specialty & Supply Co., Chicago, Ill.
B. C. Watts & Company, Denver, Colo.
General Railway Materials Co., St. Louis, Mo.
T. F. McCormick, St. Paul, Minn.
Berger-Carter Company, San Francisco, Cal.

Cleveland Wire Spring Co., E 38th & Hamilton, N. E., Cleveland, O.

Cook Spring Co., 247 Centre, New York
Cooper, Geo. & Co., Western Reserve bldg, Cleveland, O.

Detroit Wire Spring Co. (Wire), Detroit, Mich.
Diamond State Car Spring Co., Wilmington, Del.
Dunbar Bros. (Small Sheet Steel & Brass Wire), Bristol, Conn.

Eureka Spring Co., 347 W B'way, New York
Farist Steel Co. (Car, etc.), Bridgeport, Conn.
Fischer, Chas. Spring Co., 145 Centre, New York

FORT PITT SPRING & MFG. CO., Farmers' Bank bldg, Pittsburgh, Pa.; Works, McKees Rocks, Pa. (See adv. on preceding page; branch offices, end of book)

Gibson, Wm. D. Co., 27 E Huron, Chicago, Ill.
Harrow Spring Co., Kalamazoo, Mich.
Insull, Thos., 1429 Hutchinson, Phila., Pa.
Iron City Spring Co., Allegheny, Pa.
Lehigh Valley Spring Works, Wilmington, Del.
Lord Bros. Mfg. Co., Tilton, N. H.
Ludlow-Saylor Wire Co., 4th & Elm, St. Louis, Mo.

McGuire-Cummings Mfg. Co., 122 N Sangamon, Meyer & Co., Auburn, N. Y. Chicago, Ill.
Miller & Van Winkle, 18 Bridge, Brooklyn, N. Y.
Morgan Spring Co., Worcester, Mass.
Murray, William, Mt. Gilead, O.
New York Wire & Spring Co., 73 Park av, Hoboken, N. J.

Pittsburg Spring & Steel Co. (Car, etc.), Farmers' Bank bldg, Pittsburgh, Pa.

Price, Wm. F., Reading, Pa.
Railway Steel Spring Co., 71 B'way, N. Y.
Raymond Mfg. Co. (Ltd.) (Steel & Wire), Cor-Rice Coil Spring Co., St. Louis, Mo. ry, Pa.

Sabin Machine Co., Montpelier, Vt.
Sheldon Axle Co., Wilkesbarre, Pa.

Shuler, D. W. & Son, Amsterdam, N. Y.
Silver, Wm. S. & Co., 347 W B'way, New York

Simplex Railway Appliance Co. (Car & Locomotive), Hammond, Ind., & 42 B'way, New York

Taylor Electric Truck Co., Troy, N. Y.
Tuthill Spring Co., 215 W Polk, Chicago, Ill.

Ventilated Cushion & Spring ("Rough Rider"), 1514 Euclid av, Cleveland, O.

Union Spring & Mfg. Co. (Car & Machinery), Farmers Bank bldg, Pittsburgh, Pa. Works: New Kensington, Pa.

Vose Spring Co., 347 W B'way, New York

Wilson, Robt. P., 313 Market, Newark, N. J.

*Springs (Compression)

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)

Springs (Cultivator)

FORT PITT SPRING & MFG. CO., Farmers' Bank bldg, Pittsburgh, Pa.; Works, McKees Rocks, Pa. (See adv. on preceding page; branch offices, end of book)

Harrow Spring Co., Kalamazoo, Mich.

Springs (Door)

American Spiral Spring Co., Pittsburgh, Pa.
AMERICAN STEEL & WIRE CO., The Rookery, Chicago, Ill. (See adv. index & branch offices, end of book)

Arcade Mfg. Co. ("Warner" & "Perfect"), Freeport, Ill.

Caldwell Mfg. Co., 8 Jones, Rochester, N. Y.
Chatillon, John & Sons, 85 Cliff, New York

Chicago Spring Butt Co., 54 Union Park pl, Chicago, Ill.

Cleveland Wire Spring Co., Cleveland, O.
Columbian Hardware Co., Coe & Hamilton, Cleveland, O.

Cuyahoga Spring Works (Screen Door), 810 Champlain, Cleveland, O.

Middletown Mfg. Co ("Geran"), Middletown, Ohio

Miller & Van Winkle, 18 Bridge, Brooklyn, N. Y.
Morgan Spring Co. ("Perfection" & "Morgan"), Worcester, Mass.

Peck, Stow & Wilcox Co., Southington, Conn.
Phoenix Hdw. Mfg. Co. (Coil), Homer, N. Y.

Pullman Mfg. Co., Rochester, N. Y.
Russell & Erwin Mfg. Co., New Britain, Conn., & 43 Chambers, New York

Sabin Machine Co., Montpelier, Vt.
Safety Meter Lock Co., Columbus, O.

Union Mfg. Co., New Britain, Conn.
Wire Goods Co. ("Perfection"), Worcester, Mass.

Springs (Draft)

FORT PITT SPRING & MFG. CO., Farmers' Bank bldg, Pittsburgh, Pa.; Works, McKees Rocks, Pa. (See adv. on preceding page; branch offices, end of book)
Frost Railway Supply Co. ("Harvey" & "Frelton"), Detroit, Mich.

Springs (Elliptic)

Cleveland-Canton Spring Co., Canton, O.
Cooper, George & Co., Western Reserve bldg, Dunlany & Son, Newark, N. J. Cleveland, O.

Diamond State Car Spring Co., Wilmington, Del.
Farist Steel Co., Bridgeport, Conn.

FORT PITT SPRING & MFG. CO., Farmers' Bank bldg, Pittsburgh, Pa.; Works, McKees Rocks, Pa. (See adv. on preceding page; branch offices, end of book)

Gibson, Wm. D. Co., 27 E Huron, Chicago, Ill.
Hess Spring & Axle Co. (Platform & Coucord), Carthage, Cincinnati, O.

Insull, Thomas, 1429 Hutchinson, Phila., Pa.
Iron City Spring Co. (Oil Tempered), Allegheny, Pa.

Kalamazoo Spring & Axle Co. (for Farm Wagon Seats), Kalamazoo, Mich.

Keystone Spring Works, 13th & Buttonwood, Philadelphia, Pa.

Latrobe Steel Co., Girard bldg, Phila., Pa.
Merrill, E. R. Spring Co., 530 W 28th, N. Y.

Morgan Spring Co., Worcester, Mass.
Pittsburgh Spring & Steel Co. (Car & Locomotive, Tracton Car), Farmers' Bank bldg, Pittsburgh, Pa.

Railway Steel Spring Co., 71 Broadway, New York

Rowland, Wm. & Harvey (Inc.), Frankford Philadelphia, Pa.

Sheldon Axle Co., Wilkesbarre, Pa.
Shuler, D. W. & Son, Amsterdam, N. Y.

Silver, Wm. S. & Co., 347 W B'way, New York
Simplex Railway Appliance Co. (Car & Locomotive), Hammond, Ind., & 42 B'way, New York

Standard Steel Works, Harrison bldg, Phila., Pa.

Taylor Electric Truck Co., Troy, N. Y.
Tuthill Spring Co., 215 W. Polk, Chicago, Ill.

Union Spring & Mfg. Co. (Locomotive & Railway Equipment), Farmers Bank bldg, Pittsburgh, Pa. Works: New Kensington, Pa.

Vose Spring Co., 347 W B'way, New York

Springs (Engine House Door)

Morgan Spring Co., Worcester, Mass.
Myer, Benj. Co., 470 Broad, Newark, N. J.

Springs (Extension & Compression)

BRIDGEPORT CHAIN CO., Bridgeport, Conn. (See adv. index, end of book)
Fischer, Chas. Spring Co., 145 Centre, New York

FORT PITT SPRING & MFG. CO., Farmers' Bank bldg, Pittsburgh, Pa.; Works, McKees Rocks, Pa. (See adv. on preceding page; branch offices, end of book)

Miller & Van Winkle ("Eagle"), 18 Bridge, Brooklyn, N. Y.

Springs (Fish Plate)

Ruffner & Son, Schuylkill Falls, Phila., Pa.

Springs (Friction Draft)

FORT PITT SPRING & MFG. CO., Farmers' Bank bldg, Pittsburgh, Pa.; Works, McKees Rocks, Pa. (See adv. on preceding page; branch offices, end of book)

Frost Railway Supply Co. ("Harvey" for Cars & Tenders), Detroit, Mich.

Springs (Furniture & Upholstering)

AMERICAN STEEL & WIRE CO., The Rookery, Chicago, Ill. (See adv. index & branch offices, end of book)

BRIDGEPORT CHAIN CO., Bridgeport, Conn. (See adv. index, end of book)
Cuyahoga Springs Works, 810 Champlain, Cleveland, O.

Detroit Wire Spring Co., Detroit, Mich.
Morgan Spring Co., Worcester, Mass.

New York Wire & Spring Co., Hoboken, N. J.
Staples & Hanford Co., Newburgh, N. Y.

Springs (Gate)

(See Springs, Coil, etc.)

*Springs (Governor)

FORT PITT SPRING & MFG. CO., Farmers' Bank bldg, Pittsburgh, Pa.; Works, McKees Rocks, Pa. (See adv. on preceding page; branch offices, end of book)

Springs (Grain Drill)

Harrow Spring Co., Kalamazoo, Mich.
Miller & Van Winkle ("Eagle"), 18 Bridge, Brooklyn, N. Y.

Springs (Helical)

BRIDGEPORT CHAIN CO., Bridgeport, Conn. (See adv. index, end of book)
FORT PITT SPRING & MFG. CO., Farmers' Bank bldg, Pittsburgh, Pa.; Works, McKees Rocks, Pa. (See adv. on preceding page; branch offices, end of book)

New York Wire & Spring Co., Hoboken, N. J.
Railway Steel Spring Co., 71 B'way, N. Y.

Springs (Locomotive)

(See Springs, Car.)

Springs (Machinery)

(See also Springs, Agricultural Implement.)

American Spring & Supply Co., 73 Broad, New York

AMERICAN STEEL & WIRE CO., The Rookery, Chicago, Ill. (See adv. index & branch offices, end of book)

Barnes, Wallace Co., Bristol, Conn.
Cary Spring Works, 240 W. 29th, New York

Cleveland Wire Spring Co., E 38th & Hamilton N E, Cleveland, O.

Cook Spring Co., 247 Centre, New York
Crucible Steel Co. of America (La Belle Plant), Pittsburgh, Pa.

Cuyahoga Spring Works, 810 Champlain, Cleveland, O.

Diamond State Car Spring Co., Wilmington, Del.
Dunbar Bros., Bristol, Conn.

Fischer, Chas. Spring Co., 145 Centre, New York
Eureka Spring Co., 347 W B'way, New York

FORT PITT SPRING & MFG. CO., Farmers' Bank bldg, Pittsburgh, Pa.; Works, McKees Rocks, Pa. (See adv. on preceding page; branch offices, end of book)

Gibson, Wm. D. Co., 27 E Huron, Chicago, Ill.
Harrow Spring Co., Kalamazoo, Mich.

Miller & Van Winkle, 18 Bridge, Bklyn, N. Y.
Morgan Spring Co., Worcester, Mass.

New York Wire & Spring Co., Hoboken, N. J.
Pittsburg Spring & Steel Co., Farmers' Bank bldg, Pittsburgh, Pa.

Railroad Steel Spring Co., 71 B'way, New York
Raymond Mfg. Co. (Ltd.), Corry, Pa.

Sabin Machine Co., Montpelier, Vt.
Silver, Wm. S. & Co., 347 W B'way, New York

Union Spring & Mfg. Co. (Coil), Farmers Bank bldg, Pittsburgh, Pa. Works: New Kensington, Pa.

Vose Spring Co., 347 W B'way, New York

Springs (Oil Tempered)

Chatillon, Jno. & Sons, 85 Cliff, N. Y.
Dunbar Bros., Bristol, Conn.

Fischer, Chas. Spring Co., 145 Centre, New York
FORT PITT SPRING & MFG. CO., Farmers' Bank bldg, Pittsburgh, Pa.; Works, McKees Rocks, Pa. (See adv. on preceding page; branch offices, end of book)

Gibson, Wm. D. Co., 27 E Huron, Chicago, Ill.
Iron City Spring Co., Allegheny, Pa.

Miller & Van Winkle, 18 Bridge, Bklyn, N. Y.
Morgan Spring Co., Worcester, Mass.

New York Wire & Spring Co., Hoboken, N. J.
Railway Steel Spring Co., 71 B'way, N. Y.

Sabin Machine Co., Montpelier, Vt.

Springs (Pipe Bending)

Cleveland Wire Spring Co., E 38th & Hamilton N E, Cleveland, O.

Fischer, Chas. Spring Co., 145 Centre, New York
Morgan Spring Co., Worcester, Mass.

Raymond Mfg. Co. (Ltd.) (Plumbers), Corry, Pa.
Vose Spring Co., 347 W B'way, New York

Springs (Refrigerator, Door)

Roller Bar Door Closer Co., Springfield, Mass.

Springs (Rubber)

BOSTON BELTING CO., 260 Devon-
shire, Boston, Mass., & 100 Reade, New
York. (See adv. index & branch offices, end
of book)

Canfield, H. O. Co., Bridgeport, Conn.
Consolidated Rubber Co., Trenton, N. J.
Continental Rubber Works, Erie, Pa.
Diamond Rubber Co., Akron, O.
Elkhart Rubber Works, Elkhart, Ind.
Empire Rubber Mfg. Co., Trenton, N. J., & 60
Reade, New York

Goodrich, B. F. Co., Akron, O.
Hamilton Rubber Mfg. Co., Trenton, N. J.
Home Rubber Co., Trenton, N. J.
Lake Shore Rubber Co., Erie, Pa.
Manhattan Rubber Mfg. Co., 18 Vesey, N. Y.,
& Passaic, N. J.

Mechanical Rubber Co., 91 Chambers, New York
Morgan & Wright (Car, Wagon, etc.), 265 Jef-
ferson av., Detroit, Mich.
N. J. Car Spring & Rubber Co., Jersey City,
N. J.

New York Belting & Packing Co. (Ltd.), 91
Chambers, New York

New York Rubber Co., 84 Reade, New York
Republic Rubber Co., Yonkers, N. Y.
Seward Rubber Co., Berlin, Conn.
Spinney-Wise Co., Lynn, Mass.
Stokes, Jos. Rubber Co., Trenton, N. J.
Trenton Rubber Mfg. Co., Trenton, N. J.
United & Globe Rubber Mfg. Co., Trenton, N. J.
Whitehead Bros. Rubber Co., Trenton, N. J.

Springs (Rubber Channeler)

Continental Rubber Works, Erie, Pa.
Diamond Rubber Co., Akron, O.
Goodrich, B. F. Co., Akron, O.
Morgan & Wright (For Quarrying Machinery),
226 Jefferson av., Detroit, Mich.

Springs (Small)

AMERICAN STEEL & WIRE CO.,
The Rookery, Chicago, Ill. (See adv. index
& branch offices, end of book)

Cary Spring Works, 240 W 29th, New York
Cleveland-Canton Spring Co., Canton, Mich.
D'Arcy Spring Co. (Cushion), Kalamazoo, Mich.
Dunbar Bros., Bristol, Conn.

FORT PITT SPRING & MFG. CO., Farm-
ers' Bank bldg, Pittsburgh, Pa.; Works,
McKee's Rocks, Pa. (See adv. index &
branch offices, end of book)

Gibson, Wm. D. Co., 27 E Huron, Chicago, Ill.
Jackson-Cushion Spring Co. (Seat & Back
Springs), Jackson, Mich.

Miller & Van Winkle, 18 Bridge, Brooklyn,
N. Y.
Morgan Spring Co., Worcester, Mass.
National Spring & Wire Co., Albion, Mich.
Phila. Ornamental Iron Co., 628 Filbert, Phila.,
Pa.

Trenton Spring Mattress Co., Parker av., Tren-
ton, N. J.

Wallace-Barnes Co., Bristol, Conn.
Windsor Spring Co. (Cushion), Kenosha, Wis.
Wing, Chas. Co. (Cushion), Amesbury, Mass.

Springs (Track Scraper)

Harrow Spring Co., Kalamazoo, Mich.

Springs (Trolley)

AMERICAN STEEL & WIRE CO.,
The Rookery, Chicago, Ill. (See adv. index
& branch offices, end of book)

Cary Spring Works, 240 W 29th, New York
Cleveland Wire Spring Co., E 38th & Hamil-
ton N E, Cleveland, O.
Cook Spring Co., 247 Centre, New York
Diamond State Car Spring Co., Wilmington,
Del.

Eureka Spring Co., 347 W B'way, New York
Fischer, Chas. Spring Co., 145 Centre, New York
FORT PITT SPRING & MFG. CO., Farm-
ers' Bank bldg, Pittsburgh, Pa.; Works,
McKee's Rocks, Pa. (See adv. index &
branch offices, end of book)

Gibson, Wm. D. Co., 27 E Huron, Chicago, Ill.
Merrill, E. R. Spring Co., 530 W 28th, N. Y.
Miller & Van Winkle, 18 Bridge, Bklyn, N. Y.
Morgan Spring Co., Worcester, Mass.

Pittsburgh Spring & Steel Co., Farmers' Bank
bldg., Pittsburgh, Pa.
Railway Steel Spring Co., 71 B'way, N. Y.

Silver, Wm. S. & Co., 347 W B'way, New York
Vose Spring Co., 347 W B'way, New York

Springs (Valve)

AMERICAN WELL WORKS, Aurora,
Ill. (See adv. index & branch offices, end of
book)

Gibson, Wm. D. Co., 27 E Huron, Chicago, Ill.
Wing, J. T. & Co., 19 Woodward av., Detroit,
Mich.

Springs (Window)

Barnes, Wallace Co., Bristol, Conn.
Dunbar Bros., Bristol, Conn.
Eagan, Thos. F., Worcester, Mass.
Fischer, Chas. Spring Co., 145 Centre, New York
Morgan Spring Co., Worcester, Mass.
Peck, Stow & Wilcox Co., Southampton, Conn.
STANLEY WORKS ("Sweets" &
"Jenks"), New Britain, Conn., & 79 Cham-
bers, New York. (See adv. index, end of
book)

Springs (Wire)

AMERICAN STEEL & WIRE CO.,
The Rookery, Chicago, Ill. (See adv. index
& branch offices, end of book)

Barnes, Wallace Co., Bristol, Conn.
BRIDGEPORT CHAIN CO., Bridge-
port, Conn. (See adv. index, end of book)

Cary Spring Works, 240 W 29th, New York
Chatillon, John & Sons, "Cast Steel," 85 Cliff,
New York

Cleveland Wire Spring Co., E 38th & Hamil-
ton N E, Cleveland, O.

Detroit Wire Spring Co., Detroit, Mich.
Dunbar Bros. (Clock, etc.), Bristol, Conn.

Cook Spring Co., 247 Centre, New York
Fischer, Chas. Spring Co., 145 Centre, New York
FORT PITT SPRING & MFG. CO., Farm-
ers' Bank bldg, Pittsburgh, Pa.; Works,
McKee's Rocks, Pa. (See adv. index &
branch offices, end of book)

Gaynor & Mitchell Mfg. Co. (Spiral), Bridge-
port, Conn.

Independent Steel & Wire Co. (All Kinds),
Pittsburgh, Pa.

Lord Bros. Mfg. Co., Tilton, N. H.
Ludlow-Saylor Wire Co., 4th & Elm, St. Louis,
Mo.

Miller & Van Winkle, 18 Bridge, Bklyn, N. Y.
Morgan Spring Co., Worcester, Mass.

New York Wire & Spring Co., Hoboken, N. J.
Pittsburgh Spring & Steel Co., Farmers' Bank
bldg., Pittsburgh, Pa.

Railway Steel Spring Co., 71 B'way, N. Y.
Raymond Mfg. Co. (Ltd.), Corry, Pa.

Sabin Machine Co., Montpelier, Vt.
Tuck Mfg. Co., Brockton, Mass.

Washburn Wire Co. (Clock, etc.), Phillipsdale,
R. I., & 26 Cortlandt, N. Y.
Wire Goods Co., 20 Union, Worcester, Mass.

Springs (Woven Wire)

Keystone Iron Furniture & Mfg. Co., 521 N
23d, Phila., Pa.

Sprinklers (Automatic Fire)

CALDWELL, W. E. CO. (Complete Plants
Erected). Brook & D, Louisville, Ky.
(See adv. index, end of book)

Chemical Fire Engine Co., Des Moines, Ia.
Collins, J. G. (Installations), 175 E 116th,
N. Y.

Esty Sprinkler Co., N Mill, Laconia, N. H.
Foskett & Bishop Co., River & Blatchley avs,
New Haven, Conn.

Francis Bros. & Jellett (Inc.), 245 N Broad,
Phila., Pa., & 47 E 18th, N. Y.

General Fire Extinguisher Company, Providence,
R. I.

Independent Fire Sprinkler Co., 30 W Monroe,
Chicago, Ill.

International Sprinkler Co. (Wet & Dry Pipe
Systems), 517 Arch, Phila., Pa.

KELLOGG - MACKAY - CAMERON CO.,
Michigan av & 12th, Chicago, Ill. (See
adv. below; branch offices, end of book)

Manufacturers' Automatic Sprinkler Co., 56
Liberty, N. Y.

Niagara Fire Extinguisher Co., Akron, O.
Phoenix Fire Extinguisher Co. ("Phoenix"),
First National Bank bldg, Chicago, Ill.

SIMMONS, JNO. CO., 106 Centre,
New York. (See adv. index, end of book)

Swan & Sons, 163 Oliver, Boston, Mass.
Vogel, H. G. Co., 3 Mercer, New York
Walworth Mfg. Co., 132 Federal, Boston, Mass.

Sprinklers (Hose, Etc.)

Boekel, Wm. & Co., 518 Vine, Phila., Pa.
Elkhart Brass Mfg. Co. ("Hoosler" & "Acme"),
Elkhart, Ind.

Sprinklers (Lawn)

(See Lawn Sprinklers)

Sprinklers (Park)

Clow, Jas. B. & Sons ("Ryan" Arm Revolving
Spray, etc.), 342 Franklin, Chicago

Sprinklers (Potato)

Asplnwall Mfg. Co., Jackson, Mich.
Deming Co., Salem, O.
Hurst, H. L. Mfg. Co., Canton, O.
Nowvlock, J. H. & Sons, Bloomsburg, Pa.
Peppler, Thomas (Two Row), Hightstown, N. J.
Potato Implement Co., Traverse City, Mich.
Shangle, John R., Hightstown, N. J.
Steltz, J. R., Cudahy, Wis.

Sprinkling Cars (Street Railway)

(See Cars, Sprinkling, Street Railway.)

Sprocket Wheels

(See Wheels, Sprocket.)

Sprockets (Roller & Block Chain)

Cullman Wheel Co., 1019 Dunning, Chicago, Ill.

Spurs & Points (Ladder)

Brewer Bros. (Wrought Steel), 614 Filbert,
Phila., Pa.

AUTOMATIC SPRINKLER FIRE EXTINGUISHING APPARATUS

As installed by us has satisfied all demands and tests of the most rigid inspection
and the most exacting examination of the Underwriters' Associations. We invite
the special attention of Architects to this department.

MINNEAPOLIS SEATTLE
KANSAS CITY

Kellogg-Mackay-Cameron Co.

CHICAGO

BOILERS, RADIATORS, HEATING AND PLUMBING SUPPLIES

Square & Gauge Combined

Stanley Rule & Level Co., New Britain, Conn.,
& 107 Chambers, N. Y.

Squares (Bevel)

Disston, Henry & Sons (Inc.), Tacony, Phila.,
Pa., & 75 W Washington, Chicago, Ill.
Duby & Shinn Mfg. Co. (Inc.) ("New Uni-
versal"), 19 Park pl., New York
Starrett, L. S. Co., Athol, Mass.

Squares (Caliper)

Blillings & Spencer Co., Hartford, Conn.
Brown & Sharpe Mfg. Co., Providence, R. I.
HAMMACHER, SCHLEMMER & CO.
133 4th av, New York. (See adv. index, end
of book)
Starrett, L. S. Co., Athol, Mass.

Squares (Center)

Brown & Sharpe Mfg. Co., Providence, R. I.
HAMMACHER, SCHLEMMER & CO.
133 4th av, New York. (See adv. index, end
of book)
Starrett, L. S. Co., Athol, Mass.

Squares (Combination)

Athol Machine Co., Athol, Mass.
Brown & Sharpe Mfg. Co., Providence, R. I.
Disston, Henry & Sons (Inc.), Tacony, Phila.,
Pa., & 75 Wash'n, Chicago, Ill.
Duby & Shinn Mfg. Co. (Inc.) ("New Uni-
versal"), 19 Park pl., New York
Goodell-Pratt Co. (Carpenters, etc.), Greenfield,
Mass.
Sawyer Tool Mfg. Co., Fitchburg, Mass.
Starrett, L. S. Co., Athol, Mass.

*Squares (Hip & Valley-Cut)

Duby & Shinn Mfg. Co. (Inc.) ("New Uni-
versal"), 19 Park pl., New York

Squares (Iron & Steel)

Brown & Sharpe Mfg. Co. (Steel Only),
Providence, R. I.
Disston, Henry & Sons (Inc.), Tacony, Phila.,
Pa., & 75 W. Wash'n, Chicago, Ill.
Duby & Shinn Mfg. Co. (Inc.) ("New Uni-
versal"), 19 Park pl., New York
Eagle Square Mfg. Co., S Shaftsbury, Vt.
Nicholls Mfg. Co. (Framing), Ottumwa, Iowa
Peck, Stow & Wilcox Co., Southington, Conn.
Rankin & Scroggins (Detachable), 28 10th,
Wheeling, W. Va.
Russell & Erwin Mfg. Co., New Britain, Conn.,
& 43 Chambers, New York
Sargent & Co., New Haven, Conn., & 94
Center, New York
Sawyer Tool Mfg. Co., Fitchburg, Mass.
Southington Cutlery Co. (Carpenters), South-
ington, Conn.
Stanley Rule & Level Co., New Britain, Conn.,
& 107 Chambers, N. Y.

Squares (Machinists')

Athol Machine Co., Athol, Mass.
Brown & Sharpe Mfg. Co., Providence, R. I.
Disston, Henry & Sons (Inc.), Tacony, Phila.,
HAMMACHER, SCHLEMMER & CO.
133 4th av, New York. (See adv. index,
end of book)
Hoggson & Pettes Mfg. Co., New Haven, Conn.
Kelsey, D. J., 85 Cottage, New Haven, Conn.
Sawyer Tool Mfg. Co., Fitchburg, Mass.
Starrett, L. S. Co., Athol, Mass.
Turner, F. L. & Co. (With Silding Blade),
Orange, Mass.

*Squares (Pitch-Cut)

Duby & Shinn Mfg. Co. (Inc.) ("New Uni-
versal"), 19 Park pl., New York

Squares ("T")

DIETZGEN, EUGENE CO., 181 Monroe,
Chicago, Ill. (See adv. index & branch
offices, end of book)
Disston, Henry & Sons (Inc.), Tacony, Phila.,
Pa., & 175 W. Wash'n, Chicago, Ill.
HAMMACHER, SCHLEMMER & CO.
(Wooden), 133 4th av., New York. (See
adv. index, end of book)

Keuffel & Esser Co., 127 Fulton, N. Y.

SOLTMANN, E. G.

(& Perspective Curves for Drafting; also
Everything for the Architect, Engineer &
Draughting Room), 125 E 42d, New York.
York. (See adv. index, end of book)
Starrett, L. S. Co., Athol, Mass.
Welch, T. F. & Co. (Steel Blade), 65 Sudbury,
Boston
Wyke, J. & Co., 50 Saratoga, E. Boston, Mass.

Squares (Try & Mitre)

Athol Machine Co., Athol, Mass.
Atkins, E. C. & Co. (Inc.), Home Offices &
Factories, Indianapolis, Ind.
Brown & Sharpe Mfg. Co. (Try Only), Provi-
dence, R. I.
Disston, Henry & Sons (Inc.), Tacony, Phila.,
Pa.
Duby & Shinn Mfg. Co. (Inc.) ("New Uni-
versal"), 19 Park pl., New York
Fox, P. L., Bridgeport, Conn.
Goodell-Pratt Co. (All Steel), Greenfield, Mass.
HAMMACHER, SCHLEMMER & CO.
133 4th av, New York. (See adv. index, end
of book)

Knickerbocker Hardware Co. (Nickel), 299
B'way, New York, N. Y. Works, Newark,
N. J.

Nicholls Mfg. Co. (Bevel-Try), Ottumwa, Ia.
Sawyer Tool Mfg. Co., Fitchburg, Mass.
Southington Cutlery Co., Southington, Conn.
Stanley Rule & Level Co., New Britain, Conn.,
& 107 Chambers, N. Y.
Starrett, L. S. Co., Athol, Mass.
Turner, F. L. & Co., Orange, Mass.

Squeezers (Lemon)

Arcade Mfg. Co. ("Arcade" Stationary,
"Champion" Stationary, "20th Century"
Beef, Lemon, Onion & Fruit, "Last Drop,"
"Perfect," "Royal Limes," "Union,"
"Drum" Pattern & "X-Ray"), Freeport, Ill.
Erie Specialty Co. ("Walkers"), Erie, Pa.
Fauning, J. P. ("Fauning"), 678 Jefferson av.,
Brooklyn, N. Y.
Landers, Frary & Clark ("Little Giant,"
"Crown" & "L. F. C."), New Britain,
Conn.
Mosteller Mfg. Co. ("Mosteller"), 79 Dear-
born, Chicago, Ill.
National Novelty Corp. ("Crescent," "Full
Moon," "Diamond," "Boss," "Star,"
"Brighton," "American Queen," "Gem,"
"Union" & "Samson"), 826 B'way, New
York

Penn Hardware Co. ("Penn"), Reading, Pa.
Redlich Mfg. Co. (Aluminum, Wooden Bowl,
etc.), 2 Oak, Chicago, Ill.
Schoeffel, B. S. (Aluminum & Wooden Bowl),
212 Seminary av., Chicago, Ill.
Sommer's Jno. Son (Woodeu, etc.), Newark,
N. J.
Tucker & Dorsey Mfg. Co. (Wooden), In-
dianapolis, Ind.

Squeezers (Rotary)

Danville Foundry & Machine Co., Danville, Pa.
Garrison, A. Foundry Co., S 9th & Bingham,
Pittsburg, Pa.
Lewis Foundry & Machine Co., 1001 Bingham,
Pittsburg, Pa.
Philadelphia Roll & Machine Co. (Puddle Ball),
S 23d & Wash'n av, Phila., Pa.
United Engineering & Foundry Co., Farmers'
Bank bldg, Pittsburg, Pa.

Squibs (Miners')

Extension Safety Squib Co., Wilkesbarre, Pa.
Miners' Supply Co. ("Daddow & Beadles"), St.
Clair, Schuylkill Co., Pa.

Stable Fixtures

(Those who manufacture a full line, such as
Stalls, etc., are indicated by a \$.)

Abendroth Bros., 109 Beekman, N. Y.
Adams Foundry Co., 960 N 9th, Phila.
American Fence & Forge Co., Dayton, O.
AMOS, CHAS. & CO., Detroit, Mich.
(See adv. index, end of book)
Barbee Wire & Iron Works, Lafayette, Ind.,
& 44 Dearborn, Chicago
Barber Mfg. Co. (Cast Iron Feed Boxes, Cess-
pools, Hay Racks, etc.), Ashtabula, O.

Barnum, E. T. Wire & Iron Works, Detroit,
Mich.

BETHLEHEM FOUNDRY & MACHINE
Co., Front, South Bethlehem, Pa., & 149
B'way, N. Y. (See adv. index, end of book)

BOLLES, J. E. IRON & WIRE WORKS,
4th av. & Porter, Detroit, Mich. (See adv.
index, end of book)

Broad Gauge Iron Works, 53 Elm, Boston,
Mass.

Buch, A. Sons Co. (Make Full Line), Eliza-
bethtown, Pa.

BUFFALO WIRE WORKS CO., 316
Terrace, Buffalo, N. Y. (See adv. index,
end of book)

CANTON FOUNDRY & MACHINE CO.,
(Racks, Feed Boxes, Gutters, etc.), Canton,
O. (See adv. index, end of book)

CHAMPION IRON CO., Kenton, O. (See
adv. index, end of book)
Champion Iron & Wire Works, 617 S 16th,
Omaha, Neb.

\$Cheney, S. & Son (Hay Racks, Mangers, etc.),
Maulius, N. Y.

CINCINNATI MFG. CO., 1243 W 6th,
Cincinnati, O. (See adv. index, end of book)

CITY FORGE & IRON WORKS (Andrew
Plocher, Prop.), Dayton, O. (See adv. in-
dex, end of book)

Columbia Iron & Wire Works Co., Canton, O.

COLUMBUS WIRE & IRON WORKS,
Co., Columbus, O. (See adv. index, end of
book)

ESTEY WIRE WORKS CO., 59 Ful-
ton, N. Y. (See adv. index, end of book)
\$Fiske, J. W. Iron W'ks, 39 Park pl, New York

Gleno Mfg. Co. (Cesspools, Gutters, etc.),
Charles, Ill.

Gunther's, J. Sons, 417 B'way, Buffalo, N. Y.
Hitzeroth, C., 3124 Market, Phila., Pa.

Howard & Morse, 45 Fulton, N. Y.
\$Jones, M. D. & Co., 71 Portland, Boston,
Mass.

KAMMAN, WALTER, Front & Law-
rence, Cincinnati, O. (See adv. index, end
of book)

Kasper Oats Cleaner Co., 420 Wabash av.,
Chicago, Ill.

LANDON, E. R. IRON & WIRE WORKS,
1243 Fillmore, Chicago, Ill. (See adv. in-
dex, end of book)

Lindstam, S. F. ("American" Sanitary Stalls),
2615 N Aldrich av, Minneapolis, Minn.

Logan, Martin, 1632 B'way, N. Y.

Ludlow-Saylor Wire Co., St. Louis, Mo.
Lynn Stall Co. (All Kinds), Lynn, Mass.

MERRITT & CO., 1024 Ridge av,
Phila., Pa. (See adv. index, end of book)

\$Mott, J. L. Iron Works, 118 5th av., N. Y.
Murdoch-Shaw Co., Boston, Mass.

Myers, Fred J. Mfg. Co., Hamilton, O.

Northwestern Foundry, 312 10th av. S Minne-
apolis, Minn.

OHIO STRUCTURAL IRON CO., Sandusky,
O. (See adv. index, end of book)

Ornamental Iron & Wire Co. (Inc.), Ports-
mouth, Va.

Puritan Iron Works, 110 Portland, Boston,
Mass.

St. Paul Foundry Co., Como av & Mackubin,
St. Paul, Minn.

\$SMITH, F. P. WIRE & IRON WORKS,
100 Lake, Chicago, Ill. (See adv. index,
end of book)

\$Smyser's, E. G. Sons, York, Pa., & Balti-
more, Md.

Snead Architectural Iron Works, Louisville,
Ky.

\$SNOW, W. A. IRON WORKS, 19 Port-
land, Boston, Mass.

Stowell Mfg. & Foundry Co., South Milwaukee,
Wis.

Stuart & Peterson Co. (Galvanized Feed Man-
gers), Burlington, N. J.

\$Swett, A. L. Iron Works, Medina, N. Y.

TAYLOR & DEAN, 205 Market,
Pittsburg, Pa. (See adv. index, end of book)

***TYLER, W. S. CO., Cleveland, O., & 11**
B'way, New York. (See adv. index, end
of book)

\$Van Dorn Iron Works, 1793 E Madison av,
Cleveland, O.

VULCAN CO., Detroit, Mich. (See
adv. index, end of book)
Walsh's Sons & Co. (Portable Mangers), 299
Passaic, Newark, N. J.

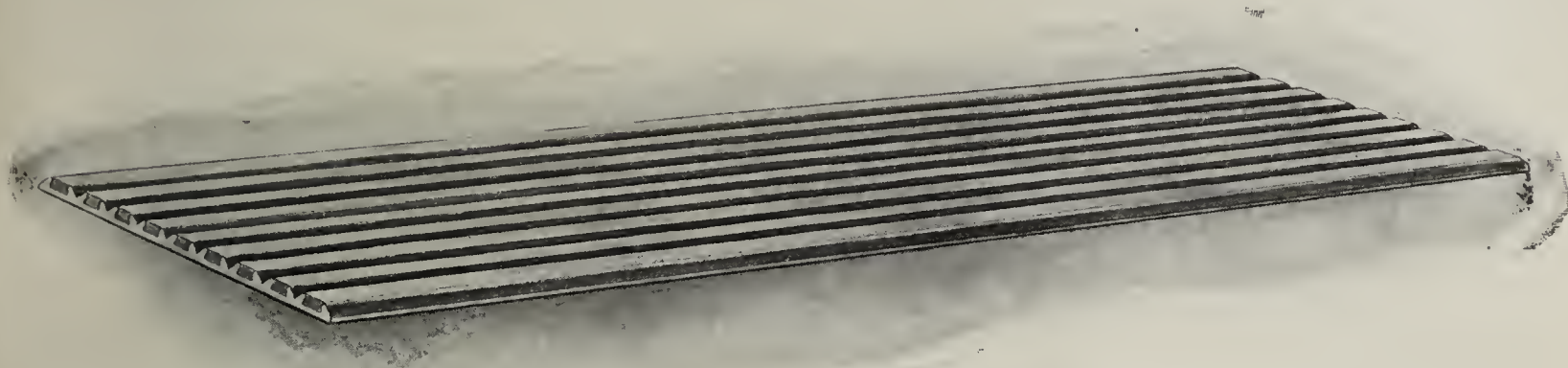
\$Westervelt, A. B. & W. T., 102 Chambers, N. Y.
White Bros. Mfg. Co., successors to the Den-
ver Iron & Wire Works Co.; Office, 209
Continental bldg; Works, W 12th av & S
4th, Denver, Colo.

WISCONSIN IRON & WIRE WORKS, 190
E Water, Milwaukee, Wis. (See adv. in-
dex, end of book)

MASON SAFETY TREAD

THE ORIGINAL AND ONLY PERFECT SAFETY TREAD

**ABSOLUTELY RELIABLE. NON-SLIPPING
SURE TO THE FOOT. MOST DURABLE**

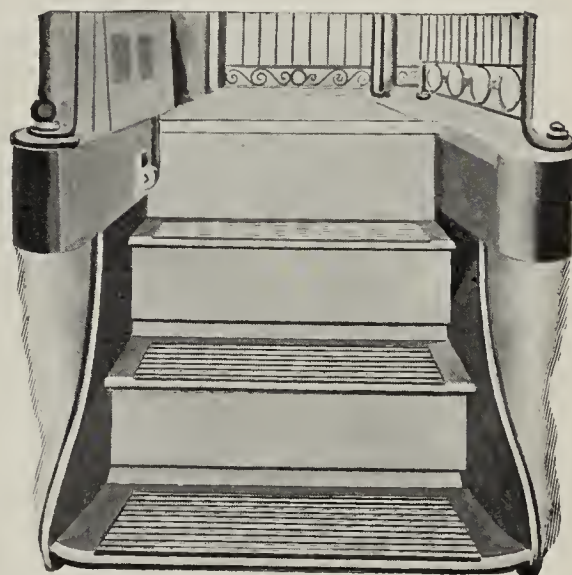


Perspective view of a six-inch section. Dark lines show the V or U grooves. Dark ends are lead rolled into dovetail grooves.

MASON SAFETY TREAD is made of steel or delta metal unperforated base of substantial thickness, with dovetailed grooves filled with lead, carborundum or karbolith. Open V or U grooves occupy alternate spaces, hence the filling and the continuous supports wear evenly; there is no filling up of open grooves with creeping lead, no retention of filth, and all dirt which gathers can be easily swept out. It is as easily applied as rubber and is many times as durable. It is unaffected by moisture or frost. All material is punched and countersunk for screws, and cut to dimension, at our factories.



Iron Stairs with Mason Safety Tread.



Mason Safety Tread on Pullman Car Steps.

Used by Federal, State and Municipal Governments; Specified by Architects, for business buildings, school-houses, department and other stores, churches, railroad cars, hotels, mills, factories, etc. It is used on wood, iron, slate, marble and granite stairs; inset in granolithic and other sidewalks and in vault lights. Blue print, samples and any information required, will be furnished on request.

AMERICAN MASON SAFETY TREAD COMPANY

702 Old South Building, Boston, Mass.

BRANCH OFFICES: NEW YORK, 13-21 Park Row; PHILADELPHIA, 1011 Chestnut St.; CHICAGO, 40 Dearborn St.



**IF YOU FAIL TO FIND
IN THIS**

**COMMERCIAL
REGISTER.**

**THAT WHICH YOU ARE
LOOKING FOR**

WRITE US—

Enclosing a two cent stamp for reply and we will at once use our best endeavor to supply the information desired, free of charge.

S. E. HENDRICKS CO.,

74 Lafayette Street, [Corner Franklin,] NEW YORK.



Stable or Stall Floors

FLEMING & CO. (Adamantine Clinker Brick), 123 Liberty, N. Y. (See adv. below)

LINDSTAM, S. F. ("American") Sanitary Stalls), 2615 N Aldrich av, Minneapolis, Minn.

SMITH, F. P. WIRE & IRON WORKS, 100 Lake, Chicago, Ill. (See adv. index, end of book)

Schouler, W. W. (Sanitary), 45 Clinton, Newark, N. J.

SNOW, W. A. IRON WORKS (Snow's Sanitary Stall Floor), 19 Portland, Boston, Mass.

Stackers (Hay)

Acme Harvester Co., Peoria, Ill.

Anderson, Martin Co., Omaha, Neb.

Dain Mfg. Co. (Automatic), Ottumwa, Ia.

Eureka Mfg. Co., Charlton, Ia.

Famous Mfg. Co. (Swinging), E. Chicago, Ind.

Fleming & Sons Mfg. Co. (Swinging), Huntsville, Mo.

International Harvester Co. of America, 7 Monroe, Chicago, Ill. Osborne Plant: Auburn, N. Y.

Jenkins Hay Rake & Stacker Co., Browning Mo.

Kansas City Hay Press Co., Kansas City, Mo.

McCall Mfg. Co., Moberly, Mo.

Pella Stacker Co., Pella, Iowa

Plattner Implement Co., Denver, Colo.

Superior Hay Stacker Mfg. Co., Linneus, Mo.

Stackers (Lumber)

Soule Steam Feed Works, Meridian, Miss.

Stackers (Straw)

Advance Thresher Co. (Pneumatic & Automatic), Battle Creek, Mich.

Aultman & Taylor Machinery Co. (Pneumatic), Mansfield, O.

Avery Mfg. Co. (Automatic), Peoria, Ill.

Birdsell Mfg. Co., S Bend, Ind.

Buffalo Pltts Co. ("Russell" Pattern Wind), Buffalo, N. Y.

Case, J. I. Threshing Machine Co. ("Case," Wind & Independent Swing, etc.), Racine, Wis.

Farm Tool Mfg. Co. (20th Century), Carrollton, Mo.

Fosston Mfg. Co. (Wind), St. Paul, Minn.

Frick Co. (Landis Eclipse Wind), Waynesboro, Pa.

Gaar, Scott & Co., Richmond, Ind.

Geiser Mfg. Co. (Wind), Waynesboro, Pa.

Harrison Machine Works (Automatic), Belleville, Ill.

Heincke & Co. (Combination & Raddle Wind Stackers), Springfield, Ill.

Huber Mfg. Co. (Wind Stackers), Marion, O.

Maplebay Windstacker Co., Crookston, Minn.

Marion Mfg. Co. ("Russell" Wind & Leader, Swinging), Marion, O.

Massillon Engine & Thresher Co. (Wind & Swinging), Minneapolis, Minn.

Monarch Feeder & Stacker Co., Cedar Falls, Ia.

Newark Machine Co., Newark, O.

Nichols & Shepard Co. (Swinging & Wind), Battle Creek, Mich.

North Dakota Mfg. Co. (Wind Stackers), Grand Forks, N. Dak.

Northwest Thresher Co., Stillwater, Minn.

Pella Stacker Co., Pella, Ia.

Port Huron Engine & Thresher Co. (Pneumatic), Port Huron, Mich.

Reeves & Co. (Automatic & Pneumatic), Columbus, Ind.

Robinson & Co. (Automatic, Swinging), Richmond, Ind.

Rumley, M. Co. (Automatic & Pneumatic), Laporte, Ind.

Russell Wind Stacker Co. (Wind), Indianapolis, Ind.

Russell & Co. (Pneumatic, Swinging & Wind), Massillon, O.

Sattley Mfg. Co., Springfield, Ill.

Sattley Stacker Co., Indianapolis, Ind.

Stevens, A. W. Co. (Wind Stackers), Marinette, Wis.

Smith & Sons Mfg. Co., Kansas City, Mo.

Westinghouse Co., Schenectady, N. Y.

Stacks (Steel)

(See Chlmneys, Steel)

Stage Announcers

Electric Carriage Call Co., 328 W 41st, New York

*Stage Light Appliances (Electric)

CHASE-SHAWMUT CO., Newburyport, Mass. (See adv. index, end of book)

Stained Glass Substitute

Parrish, S. H. & Co., 214 Clark, Chicago, Ill.

Sedgwick, Wm., 260 Clark, Chicago, Ill.

Sefton Bros., 113 E Madison, Chicago, Ill.

Young, W. C., 912 Arch, Phila., Pa.

Stainoff for Cleaning & Polishing

Steward, D. M. Mfg. Co., Chattanooga, Tenn.

Stair Builders (Iron)

(See Iron Stair Builders)

Stair Builders' Supplies

(Stair Rails, Balusters, Newel Posts, etc.)

American Sash & Door Co. (Roach & Kienzle Factory) (Wholesale Mfrs.), Kansas City, Mo.

Bering Mfg. Co. (Pine & Cypress, Wholesale Mfrs.), Houston, Tex.

Bossert, Louis & Son, Grand st. & Newtown Creek, B'klyn, N. Y.

Carter, S. C. & C. Co. (Wholesale Mfrs.), Keokuk, Iowa

CHICAGO MILL WORK SUPPLY CO., cor 22d & Sangamon, Chicago, Ill. (See adv. index, end of book)

Cream City Sash & Door Co. (Wholesale Mfrs.), 7th av & Park, Milwaukee, Wis.

Curtis Bros. Co. (Wholesale Mfrs.), Clinton, Iowa

Curtis & Bartlett Co. (Wholesale Mfrs.), Lincoln, Neb.

Curtis & Yale Co. (Wholesale Mfrs.), Minneapolis, Minn.; Milwaukee and Wausau, Wis.

Cypress Tank & Mfg. Co. (Wholesale Mfrs.), Patterson, La.

Dickey, A. & Co., 37 Bristol, Boston, Mass.

East Tacoma Mfg. Co. (Wholesale Mfrs.), Tacoma, Wash.

Elmborn Wood Turning & Mfg. Co., 19 N Jefferson, Chicago, Ill.

Empire Lumber Co. (Wholesale Mfrs.), Winona, Minn.

Foster-Munger Co. (Wholesale Mfrs.), W 20th & S Sangamon, Chicago, Ill.

Gauger, Jno. A. & Co. (Wholesale Mfrs.), 22d & Laflin, Chicago, Ill.

Gould Mfg. Co. (Wholesale Mfrs.), Oshkosh, Wis.

Gray's Harbor Commercial Co. (Wholesale Mfrs.), Cosmopolis, Wash.

Hafner Mfg. Co. (Wholesale Mfrs.), Dock & Main, St. Louis, Mo.

Harris & Cole Bros. (Wholesale Mfrs.), Cedar Falls, Ia. & Columbia, Tenn.

Huttig Mfg. Co. (Wholesale Mfrs.), Muscatine, Iowa

Hyde-Murphy Co., Ridgway, Pa.

I. X. L. & Goshen Pump Co., Goshen, Ind.

Leuckel, A. K. & Co., Trenton, N. J.

Lidell, Wm. C., 597 Austin av, Chicago, Ill.

Lord, P. A. Lumber Co., La Grange, Ill.

McMillen, R. & Co. (Wholesale Mfrs.), Oshkosh, Wis.

Mann, Watson & Co., Muskegon, Mich.

Menke-Grimm Planing Mill Co., Quincy, Ill.

Missouri Stair Co. (Wholesale Mfrs.), 3900 Chouteau av, St. Louis, Mo.

Morgan Co. (Wholesale Mfrs.), Oshkosh, Wis.

OSIECKI, THOMAS J., 600 Kent av, Brooklyn, N. Y.

Paine Lumber Co. (Wholesale Mfrs.), Oshkosh, Wis., & 1 Madison av, N. Y.

Palmer, Fuller & Co. (Wholesale Mfrs.), 224 Lumber, Chicago, Ill.

Radford Sash & Door Co. (Wholesale Mfrs.), & 192 W 22d, Chicago, Ill.

Roach & Musser Sash & Door Co. (Wholesale Mfrs.), Muscatine, Iowa

Roberts, E. L. & Co. (Wholesale Mfrs.), W 22d & Union Place, Chicago, Ill.

Rockwell Mfg. Co. (Wholesale Mfrs.), Milwaukee, Wis.

Schaller-Hoerr Co., 418 Blue Island av, Chicago, Ill.

Spangler, Frank Co. (Newels, Balusters, Spindles, etc.), Toledo, O.

Starkweather, R. R. Co. (Wholesale Mfrs.), Oshkosh, Wis.

STEARNS, A. T. LUMBER CO., Neponsett, & 166 Devonshire, Boston, Mass. (See adv. index, end of book)

Stair Corners

Globe Mfg. Co. (Brass & Zinc), Painesville, Ohio

Stair Treads (Brass)

AMERICAN MASON SAFETY TREAD CO., 702 Old South bldg, Boston, Mass. (See adv. index & branch offices, end of book)

Holmes, Booth & Haydens Co., Waterbury, Conn., & 37 Park pl, N. Y.

Hungerford, U. T. Brass & Copper Co., 497 Pearl, N. Y.

Manhattan Brass Co., 338 E 28th, N. Y.

UNION EQUIPMENT AND BRONZE CO., 520 W 36th, N. Y. (See adv. outside stencil)

Waterbury Brass Co., Waterbury, Conn., & 99 John, New York

Waterbury Brass Goods Corporation, Waterbury, Conn.

*Stair Treads (Carborundum)

AMERICAN MASON SAFETY TREAD CO., 702 Old South bldg, Boston, Mass. (See adv. index & branch offices, end of book)

Stair Treads (Cast Iron)

AMOS, CHAS. & CO., 94 W Larned, Detroit, Mich. (See adv. index, end of book)

CANTON FOUNDRY & MACHINE CO., Canton, O. (See adv. index, end of book)

Cheney, S. & Son, Manlius, N. Y.

Swett, A. L. Iron Works, Medina, N. Y.

*Stair Treads (Hard Brass)

AMERICAN MASON SAFETY TREAD CO., (Lead or Carborundum Filled), 702 Old South bldg, Boston, Mass. (See adv. index & branch offices, end of book)

*Stair Treads (Lead)

AMERICAN MASON SAFETY TREAD CO., 702 Old South bldg., Boston, Mass. (See adv. index & branch offices, end of book)

Stair Treads (Rubber)

(See Mats & Matting, Rubber.)

Stair Treads (Wrought Steel)

AMERICAN MASON SAFETY TREAD CO., (Lead or Carborundum Filled), 702 Old South bldg, Boston, Mass. (See adv. index & branch offices, end of book)

Universal Safety Tread Co. (Lead Filled), 45 B'way, N. Y.

Stair Nosing

Globe Mfg. Co. (Brass, Zinc & Rubber), Painesville, Ohio

*Stairs (Spiral)

PITT, WM. R., COMPOSITE IRON Works, 136-138 W. 24th, New York. (See adv. index, end of book)

FLEMING & CO. PAVING FOR STABLES, DRIVEWAYS, COURTYARDS, ETC.
CONTRACTORS,
123 LIBERTY STREET, NEW YORK CITY - CLINKER BRICK AND BYTHAM BLOCKS,
STAFF, BLUE TERRA METALLICS. QUARRIES, ETC.

Sheet Metal Stamping and Drawing

We make a specialty of Difficult Drawing in Heavy Steel.

Also Stampings of all kinds to replace
Malleable Castings and Forgings . . .

THE CROSBY COMPANY, 171-189 Pratt St., Buffalo, N. Y.

Stairways (Moving)

(Also Known as Escalators.)

Link Belt Engineering Co., Nicetown, Phila., Pa.

OTIS ELEVATOR CO. (Escalators),
17 Battery pl, New York. (See adv. index & branch offices, end of book)

Reno Inclined Elevator Co., 553 W 33d, New York

Traveling Stairway Co., 1123 B'way, New York

Stake Pockets for Cars

AMERICAN BRAKE SHOE & FOUNDRY CO., 170 B'way, New York. Works & Sales Office, Chicago Heights, Ill. (See adv. index & branch offices, end of book)

Davis Pressed Steel Co. (Pressed Steel), Wilmington, Del.

Pressed Steel Car Co., Pittsburg, Pa.

RUSSEL WHEEL & FOUNDRY CO., Detroit, Mich. (See adv. index, end of book)

*Stake Tacks & Hatches

SOLTMANN, E. G.

(for Engineers & Surveyors; also Everything for the Architect, Engineer & Draughting Room), 125 E 42d, New York. (See adv. index, end of book)

*Stakes (Logging Car)

RUSSEL WHEEL & FOUNDRY CO., Detroit, Mich. (See adv. index, end of book)

*Stakes (Lumber)

U. S. METAL & MFG. CO. (Almeth), 25 Broad, New York. (See adv. index, end of book)

*Stakes (Tinner's')

NIAGARA MACHINE & TOOL
Works, Buffalo, N. Y. (See adv. index, end of book)

*Stamped Parts for Cream Separators

WORCESTER PRESSED STEEL CO., Worcester, Mass. (See adv. index, end of book)

*Stamped Steel Shapes & Special Stampings

PRESSED METAL MFG. CO., 35 Warren, New York

*Stamping (Aluminum)

WORCESTER PRESSED STEEL CO., Worcester, Mass. (See adv. index, end of book)

*Stamping (Automobile)

WORCESTER PRESSED STEEL CO., Worcester, Mass. (See adv. index, end of book)

*Stamping (Brass)

CROSBY CO., 171-189 Pratt, Buffalo, N. Y. (See adv. index, end of book)

Waterbury Brass Goods Corporation, Waterbury, Conn.

WORCESTER PRESSED STEEL CO., Worcester, Mass. (See adv. index, end of book)

Stamping Outfits

Jopson, Geo. W. (for Name or Metal, etc.), Meriden, Conn.

Stamping (Sheet Metal)

Abbott Mfg. Co., Painesville, O.

Acme Brass Mfg. Co., Chicago, Ill.

Adell Bros. Mfg. Co., Orange, Mass.

Advance Mfg. Co., Racine, Wis.

Advance Mfg. Co. (Hardware Specialties, etc.), Racine, Wis.

American Metal Stamping Co. (Specialties), 20 E. Herman, Gtn., Phila., Pa.

American Tube & Stamping Co. (Steel), Bridgeport, Conn.

Armor Clad Mfg. Co., Canton, O.

Atlantic Stamping Co., Rochester, N. Y.

Avery Stamping Co., Lake & Coe, Cleveland, O.

Bay State Stamping Co. (Sheet Metal), Worcester, Mass.

Buckeye Stamping Co., Columbus, O.

Burdick & Son, Albany, N. Y.

Cassady-Fairbank Mfg. Co., 6106 La Salle, Chicago, Ill.

Champion Safety Lock Co., Geneva, O.

CHANDLER CO. (Brass & Steel up to 1-10 inch), Springfield, Mass. (See adv. below)

Cincinnati Stamping Co., 24 W McMicken av. Cincinnati, O.

Cincinnati Tin & Japan Co., 308 Walnut, Cincinnati, O.

Clark, A. N. & Son (Nickel Finish, etc.), Plainville, Conn.

Clark, W. J., Co., Salem, O.
Cleveland Stamping & Tool Co. (also Enameled & Polished Holloware), Hamilton nr Coe, Cleveland, O.

Climax Tag Co., 19 Keowee, Dayton, O.

Commercial Tool & Stamping Co., Woodbury, N. J.

Consolidated Fruit Jar Co., New Brunswick, N. J.

CROSBY CO., 171-189 Pratt, Buffalo, N. Y. (See adv. above)

Domestic Novelty Mfg. Co., 25 Camfield, Newark, N. J.

Edmouds-Metzel Mfg. Co., 155 S Jeff'u, Chicago, Ill.

EDWARDS MFG. CO., Eggleston av., 4th & 5th, Cincinnati, O. (See adv. index, & branch offices, end of book)

Erie Stamping & Mfg. Co., Erie, Pa.

Evansville Stamping Works, Evansville, Ind.

Fedders Mfg. Works (Light Stamping), Buffalo, N. Y.

Foreman Can Co., Irwin, Pa.

Foyer Steel Stamping Co., Painesville, O.

Globe Machine & Stamping Co. (Heavy for Automobile, Deep Drawing, etc.), Cleveland, O.

Goodwin & Kintz Co. (Brass, Aluminum, Nickel, etc.), Winsted, Conn.

GRAMMES, L. F. & SONS, Allentown, Pa. (See adv. index, end of book)

Grant Mfg. & Machine Co., Bridgeport, Conn.

Greystone Mfg. Co. (Also Pressed Work), Greystone, Conn.

HELVIG MFG. CO., St. Paul, Minn. (See adv. index, end of book)

Houghton & Buxton Mfg. Co. (Of Every Description), Worcester, Mass.

Housatonic Mfg. Co. (Novelties & Specialties), New Haven, Conn.

INDIANAPOLIS STEEL ROOFING & CORRUGATING CO., Indianapolis, Ind. (See adv. index, end of book)

Ireland & Matthews Mfg. Co. (im. German Silver, Copper, Brass & Steel, also Spun & Drawn), Detroit, Mich.

Kinsey Mfg. Co., Dayton, Ohio

Konigsow, E. Stamping & Tool Works, 184 Champlain, Cleveland, O.

McDowell Mfg. Co. (Steel & Brass), 541 Wood, Pittsburg, Pa.

McKeel, Geo. A. & Co. (Point Bands, Shaft Tips, Special Shapes, etc.), Jackson, Mich.

MILWAUKEE CORRUGATING CO., Milwaukee, Wls. (See adv. index, end of book)

MOSSBERG, FRANK CO., Attleboro, Mass. (See adv. index, end of book)

Mossberg Wrench Co., Central Falls, R. I.

Milwaukee Automatic Machine Co., Milwaukee, Wls.

Matthews Mfg. Co., Worcester, Mass.

Novelty Mfg. Co., Waterbury, Conn.

Ohio Shovel & Stamping Co., Canal Dover, Ohio

LIGHT STAMPINGS IN BRASS OR STEEL UP TO $\frac{1}{8}$ " THICK

WE FURNISH COMPLETE DIES AND PRODUCE ALL KINDS OF STAMPINGS

THE CHANDLER CO., Incorporated, - Springfield, Massachusetts

Parish & Bingham Co., 5363 Hamilton, Cleveland, O.
 Penna. Blue Print Co., Park bldg, Pittsburg, Pa.
 Schatz Hardware Mfg. Co., Chappaqua, N. Y.
 Schwab, R. J. & Sons Co., Milwaukee, Wis.
 Sessions, J. H. & Son, Bristol, Conn.
 Sneath, Ira B. (Pressing & Stamping), Bristol, Conn.
 Smith & Stearns (Cold Metal), Worcester, Mass.
 Stortz, John & Son, 210 Vinc. Phlla., Pa.
 Sturges & Burn Mfg. Co., Chicago, Ill.
 Turner Brass Works, 66 Michigan, Chicago, Ill.
 Twilco Stamping Works, Rome, New York
 Vogel, Wm. & Bros., 37 S 9th, Brooklyn, N. Y.
WORCESTER PRESSED STEEL CO.
 Worcester, Mass. (See adv. index, end of book)

Stamping Works

Aeme Shear Co., Bridgeport, Conn.
 Adams & Westlake Co., Chicago, Ill.
 American Metal Stamping Co., 20 E. Her-
 man, Gtn., Phila., Pa.
 Avery Stamping Co., Lake & Coe, Cleveland, O.
 Briscoe Mfg. Co. (Galvanized Work, etc.), De-
 troit, Mich.
 Brunswick Mfg. Co. (Light Metal), Brunswick, Me.
 Carnahan Stamping & Enameling Co., Can-
 ton, O.
 Central Stamping Co., 24 Cliff, N. Y.
 Chicago Die & Electric Co., 87 W Lake, Chi-
 cago, Ill.
 Cincinnati Stamping Co., 24 W McMicken av.
 Cincinnati, O.
 Cincinnati Tin & Japan Co., 308 Walnut,
 Cincinnati, O.
 Columbian Enameling & Stamping Co. (Enamel-
 ed Wares), Terre Haute, Ind., & 31 Michi-
 gan av. Chicago, Ill.
**CROSBY CO. (General Stamping &
 Drawing in Sheet Metals), 171-189 Pratt,
 Buffalo, N. Y. (See adv. top of preceding
 page)**
 Dover Stamping & Mfg. Co., Cambridge, Mass.
 Dunlap, John Co. (Tin, Sheet Iron, Japanned,
 Galvanized & Enamelled Ware Mfrs.),
 Pittsburg, Pa.
 Geuber & Paeschke Mfg. Co., St. Paul av &
 15th, Milwaukee, Wis.
 Hunt & Dorman Mfg. Co., Cleveland, O.
 Hydraulic Pressed Steel Co. (Steel), E 61st,
 Cleveland, O.
 Iron Clad Mfg. Co., 204 Varet, Brooklyn, N. Y.
 Keim, Jno. R. (Sheet Metal), Kensington ave &
 Erie R. R., Buffalo, N. Y.
 Lalanc & Grosjean Mfg. Co., 19 Cliff, N. Y.
 National Enameling & Stamping Co., 374
 B'way, New York
 North, O. B. & Co., New Haven, Conn.
 North & Judd Mfg. Co., New Britain, Conn.
 Parker, Chas. Co., Meriden, Conn.
 Quadriga Mfg. Co., 16 S Canal, Chicago, Ill.
 Republic Metalware Co., Buffalo, N. Y., & 21
 Republic Stamping & Enamelling Co., Canton,
 Ohio
 Rochester Stamping Co. (Tin & Hollowware),
 Rochester, N. Y.
 Sayre Stamping Co., Sayre, Pa.
 Sessions, J. H. & Son, Bristol, Conn.
 Standard Stamping Co., 2000 N B'way, St.
 Louis, Mo.
 Troy Stamping Works, Troy, N. Y.
WORCESTER PRESSED STEEL CO.
 Worcester, Mass. (See adv. index, end of
 book)

*Stamping & Drawing (Sheet Metal)

**CROSBY CO. (Difficult Drawing in
 Heavy Steel), 177-189 Pratt, Buffalo, N. Y.
 (See adv. top of preceding page)**

KOVEN, L. O. & BRO., 50 Cliff, New York.
 York. (See adv. index, end of book)
WORCESTER PRESSED STEEL CO.
 (Successors to Worcester Ferrule & Mfg.
 Co.), Worcester, Mass. (See adv. index, end
 of book)

Stamps (Rubber)

Bennett Stamp & Stencil Works, 58 Griswold,
 Detroit, Mich.
 Crescent Seal & Stamp Co., Cambridge, Mass.
 Ness, Geo. M., Jr., 61 Fulton, N. Y.
 Smith, R. H. Mfg. Co., 293 Main, Springfield,
 Mass.
 Weber-Erickson-Bunting Co., 211 Diamond,
 Pittsburg, Pa.

Stamps, Shoes & Dies

(See Shoes & Dies, Stamp Mill.)

Stamps (Steel)

Bennett Stamp & Stencil Wks., 58 Griswold,
 Detroit, Mich.
 Butler, A. G., 284 Pearl, N. Y.
CHANDLER CO., Springfield, Mass. (See
 adv. below)
 Detroit Rubber Stamp Co., 99 Griswold, Detroit,
 Mich.
 Gowanda Agricultural Works (Cutler's), Gow-
 anda, N. Y.
 Hanson, C. H. (of all kinds), 44 S Clark, Chi-
 cago, Ill.
 Ness, Geo. M., Jr., 61 Fulton, N. Y.
 Sackman, Walter G., Akron, O.
 Smith, R. H. Mfg. Co., 293 Main, Springfield,
 Mass.

Stamps (Steel Log)

Northwestern Stamp Works, St. Paul, Minn.

Stamps (Time)

Automatic Time Stamp Co. ("Automatic"), 160
 Congress, Boston, Mass.
 Baird Mfg. Co., 24 Michigan, Chicago, Ill.
 Follett Time Recording Co., 173 Greenwich,
 New York
 International Time Recording Co. ("Standard"
 Automatic), Binghamton, N. Y.
 Manhattan Time Recording Co., 308 Hudson,
 New York
 Perry Time Stamp Co., 11 S Jefferson, Chi-
 cago, Ill.
 Smith, R. H. Mfg. Co. (Air Cushion), 293
 Main, Springfield, Mass.
 Stambaugh, Wm. B. (Automatic & Electric),
 Metropolitan Life bldg, New York
 Weeks, A. A. Mfg. Co. ("American"), 11 Gold,
 New York

*Stamps & Dies (Sheet Metal)

**BLISS, E. W. CO., 19 Adams, Brook-
 lyn, N. Y. (See adv. index, end of book)**

Stamps & Dies (Steel)

Adrance Machine Works, 254 Van Brunt, Brook-
 lyn, N. Y.
 Gilles & Jones Co., Wilmington, Del.
 Hoggson & Pettis Mfg. Co., New Haven, Conn.
 Howard Iron Works, Buffalo, N. Y.
 Konigslow, E. Stamping & Tool Works, 184
 Champlain, Cleveland, O.
 Loyd, Jno. Co., 558 Water, New York
PERKINS MACHINE CO., Warren, Mass.
 (See adv. index, end of book)
 Richard Mfg. Co. (Ltd.), Bloomsburg, Pa.
 Schwerdtle Stamp Co., Bridgeport, Conn.
 Wilson & Smith, Worcester, Mass.
WORCESTER PRESSED STEEL CO.
 Worcester, Mass. (See adv. index, end of
 book)

Stanchions (Cattle)

Barnard, S. M. & Co., Forestville, Conn.
 Crumb, W. B., Forestville, Conn.
 Hunt, Helm, Ferris & Co. ("Star" Swing),
 Harvard, Ill.
 Robertson, O. H., Forestville, Conn.

Stand Pipes

ABENDROTH & ROOT MFG. CO.,
 Newburgh, N. Y. (See adv. index & branch
 offices, end of book)
 Aurora Boiler Works (Inc.), Aurora, Ill.
 Birmingham Boiler Works, Birmingham, Ala.
 Chicago Bridge & Iron Co., W 105th & Throop,
 Chicago, Ill.
 Coatesville Boiler Works, Coatesville, Pa.
 Cole, R. D. Mfg. Co., Newnan, Ga.
 Columbiana Boiler Co., Columbiana, O.
 Cunningham Iron Co., Boston, Mass.
 De Pere Boiler & Mfg. Co., De Pere, Wis.
 Enterprise Boiler Co., Youngstown, O.
**FAIRBANKS' MORSE & CO. (Rail-
 road "Sheffield"), Franklin & Monroe, Chi-
 cago, Ill. (See adv. index & branch offices,
 end of book)**
 Freeman, S. & Sons Mfg. Co., Racine, Wis.
 Gem City Boiler Co., Dayton, O.
 Girard Boiler & Mfg. Co., Girard, O.
 Hodge Boiler Works, Sumner nr N. Ferry,
 East Boston, Mass.
**KOVEN, L. O. & BRO., 50 Cliff, New
 York. (See adv. index, end of book)**
 Keeler, E. Co., Williamsport, Pa.
LONDON, E. R. IRON & WIRE WORKS
 (With Ice-Proof Steps and Balconies), 1243
 Fillmore, Chicago, Ill. (See adv. index,
 end of book)
 Lookout Boiler & Mfg. Co., Chattanooga, Tenn.
 Lombard Iron Works & Supply Co., Augusta, Ga.
 McNeil Boiler Co., Akron, O.
 McNeill, James & Bro. Co., 29th & A. V. Ry.,
 Pittsburg, Pa.
 Meehan Boiler & Construction Co., Lowell,
 ville, O.
 Michelmann Steel Construction Co., Quincy, Ill.
**MINNEAPOLIS STEEL & MACHIN-
 ery Co., Minneapolis, Minn. (See adv. in-
 dex & branch offices, end of book)**
 Munroe, R. & Sons Corporation, 23d & Small-
 man, Pittsburg, Pa.
 Muskegon Boiler Works, Muskegon, Mich.
 Novelty Steam Boiler Works (Triplett & Jen-
 uings, Prop's), 917 S Howard, Baltimore,
 Md.
 Otto Gas Engine Works, 33d & Walnut, Phila.,
 Pa.
PETROLEUM IRON WORKS CO.,
 Washington, Pa. (See adv. index & branch
 offices, end of book)
 Petty, J. K. & Co. (Lebanon Boiler Works),
 Lebanon, Pa.
 Pollock, Wm. B. Co., Youngstown, O.
 Portland Co., Portland, Me.
REEVES BROS. CO., Alliance, O.
 (See adv. index, end of book)
 Riter-Couley Mfg. Co., 56 Water, Pittsburg,
 Pa., & 111 B'way, New York
 Sharon Boiler Works, Sharon, Pa.
**SIMMONS, JOHN CO., 106 Centre, New
 York. (See adv. index, end of book)**
 Sotter Bros., Pottstown, Pa.
 Springfield Boiler & Mfg. Co., Springfield, Ill.
 Star Boiler Works, Clinton, Ia.
 Struthers-Wells Co., Warren, Pa.
 Tluppet & Wood, Phillipsburg, N. J.
 U. S. Wind, Engine & Pump Co., Batavia, Ill.
 Walsh Boiler & Iron Works, Springfield, Mass.
 Walsh's Holyoke Steam Boiler Works, Holyoke,
 Mass.
 Walsh & Weidner Boiler Co., Chattanooga,
 Tenn.
 Warren City Boiler Works, Warren, O.
 Wickes Bros., Saginaw, Mich.
 Wood, R. D. & Co., 400 Chestnut, Phila., Pa.
 York Mfg. Co., York, Pa.

STEEL STAMPS, LETTERS and FIGURES

The Best Only. We Furnish Rolls, Stamps, Engraved Dies for all Purposes,
 and at prices that are right for the quality furnished. Send a trial order.

THE CHANDLER CO., Incorporated, - Springfield, Massachusetts

Stand Pipes or Locomotive Water Cranes

(See Water Columns or Stations, Railroad.)

Stands (Indicator)

Chain Belt Co. (Malleable Iron), Milwaukee, Wis.

Stands (Mule Pulley)

Caldwell, H. W. & Son Co., Western av & 17th, Chicago, Ill.

CASE MFG. CO., Columbus, O.

Falls Rivet & Machine Co., Cuyahoga Falls, O.

GRAMMES, L. F. & SONS, Allentown, Pa.

(See adv. index, end of book)

Jones & Laughlin Steel Co., Pittsburg, Pa.

Poole Engineering & Machine Co., Baltimore, Md.

*Stands (Umbrella)

WISCONSIN IRON & WIRE WORKS

(Metal), 190 E Water, Milwaukee, Wis.

(See adv. index, end of book)

Staple Mfrs.

Acme Staple Co., 500 N 12th, Phila., Pa.

AMERICAN STEEL & WIRE CO.,

The Rookery, Chicago, Ill. (See adv. index

& branch offices, end of book)

Atlas Tack Co., Fairhaven, Mass.

Austin & Eddy (Blind), 117 Broad, Boston

Brewer Bros. (Bar, Bolt, Bow, Latch, Mirror

or Plate & Round), 614 Filbert, Phila., Pa.

Bromwell Co. (Wrought Steel), Cincinnati, O.

Central City Bolt Co. (Nutt), Syracuse, N. Y.

Chicago Tack Co., 7800 Woodlawn av, Chi-

cago, Ill.

Cobb & Drew (Bed Spring, Broom, Pail, Barbed,

Blind, Basket Handle, Clamp, Steel Spring,

& Clutch. Hoop, Tube, Electricians' Poul-

try Netting, etc.), Plymouth, Mass., &

Rock Falls, Ill.

Cuyahoga Steel & Wire Co. (Wire), Cuyahoga

Falls, O.

Dillon-Grisswold Wire Co. (Wire), Sterling, Ill.

Grand Crossing Tack Co. (Wire), S Chicago av

& 79th, Chicago

Hazel Atlas Glass Co., Wheeling, W. Va.

Holland Mfg. Co., Baltimore, Md.

Humason & Beckley Mfg. Co., New Britain,

Conn.

Indiana Steel Wire Co. (Wire Fence), Muncie,

Ind.

Kokomo Steel & Wire Co. (Fence, etc.), Kokomo,

Ind.

Lawrence Bros. (Hasp), Sterling, Ill.

Milwaukee Tack Co. (Wire), Milwaukee, Wis.

Morgan Spring Co., Worcester, Mass.

Norton Iron Works (Inc.), (Polished & Galvan-

ized Wire), Ashland, Ky.

Parker Wire Goods Co. (Wire), Worcester,

Mass.

Pickering, Ridgeway S. (Hoop Staples), Sharon

Hill, Pa.

Pittsburg Steel Co. (Wire Fence, etc.), Frick

bldg, Pittsburg, Pa.

Plymouth Mills, Plymouth, Mass.

Pratt, Wm. E. Mfg. Co. (Barbed, Blind, Net-

ting, Bed Spring), 91 Lake, Chicago, Ill.

Reading Hardware Co. (Wrought), Reading,

Pa.

Reading Screw Co. (Wire, All Kinds), Norristown,

Pa.

Rockwell Clough Co. (Wire), Alton, N. H.

Sargent & Co., New Haven, Conn., & 94

Centre, New York

Southern Steel Co. (Wire), Birmingham, Ala.

St. Louis Wire & Iron Co., 520 Chouteau av, St.

Louis, Mo.

Stanley, George W. Co. (Barbed, Blind & Hoops),

Belleville, Ill.

STANLEY WORKS, New Britain,

Conn., & 79 Chambers, New York (See adv.

index, end of book)

Superior Tack & Nail Co. (Coppered Casket

Handles, Hoop, Galvanized, Poultry Netting,

etc.), Pen Yan, N. Y.

Titchener, E. H. & Co. (Blind, etc.), Bingham-

ton, N. Y.

Tower Mfg. Co. (Wire Clamp Electricians'

Broom, Hoop, Harness, etc.), Commerce &

Elm, Cincinnati, O., & Madison, Ind.

Townsend, G. G. (Barrel & Keg Hoop), Winch-

endon, Mass.

Wickwire Bros. (Wire), Cortlandt, N. Y.

Williamsport Staple Co., Williamsport, Pa.

Wilcox, Crittenden & Co. (Wrought Iron), Mid-

dletown, Conn.

Wire Goods Co. (Wrought Steel, Steel Wire,

Tinned & Galvanized), Worcester, Mass.

WRIGHT WIRE CO. (Wire of all

Kinds), Worcester, Mass. (See adv. index

& branch offices, end of book)

*Staples (Bar)

WILCOX MFG. CO. (Whole or Half

Bar), Aurora, Ill. (See adv. index, end of

book)

Staples (Insulated)

Blake Signal & Mfg. Co. ("Blake"), Boston,

Mass.

*Staples & Wire Shapes

COLLINS, EMMONS, 20 W Randolph,

Chicago, Ill

Stars (Iron)

Barnett, Oscar Foundry Co. (for Rumbling),

Newark, N. J.

OSBORN MFG. CO. (Hard Iron for

Rumbling), 5401 Hamilton av, N E, Cleve-

land, O. (See adv. index, end of book)

Starters (Automobile, Engine)

American Electric Novelty & Mfg. Co. ("Ever

Ready"), 304 Hudson, New York

*Starters (Self)

CUTLER-HAMMER MFG. CO. (Alternating

& Direct Current, Milwaukee, Wis. (See

adv. index & branch offices, end of book)

Statuary & Monuments (White Bronze)

Monumental Bronze Co., Bridgeport, Conn.

UNION EQUIPMENT AND BRONZE CO.

520 W 36th, N. Y. (See adv. outside stencil)

Stationers' Specialties

(See also Specific Articles Required.)

Adams Mfg. Co. (Blotter Baths), 4 S 20th,

Phila., Pa.

Burr Index Co. (Index Cards), Hartford, Conn.

Chicago Business System Co. (Index Cards,

Interchangeable), Chicago, Ill.

Clark & Baker Co. (Index Cards, Metallic),

258 Canal, N. Y. City

Cushman & Denison Mfg. Co. ("Capitol" Ink

Stands & Other Specialties), 240 W 23d,

N. Y. City

Detroit Coin Wrapper Co., Detroit, Mich.

Farnham, A. B. Printing & Stationery Co.

(Desk Ticklers & Other Specialties), Min-

neapolis, Minn.

Hoskins ("Victor" Inkstands), 354 Broadway,

N. Y. City

Kimpton, Edward, 60 John, New York

King, W. V. Supply Co. (Stenographic Tabu-

lators), St. Louis, Mo.

Modern Mfg. Co. (Book Corner Protectors),

P. O. Box 2854, Phila., Pa.

National Blank Book Co., Holyoke, Mass.

National Finger Pad Co. (Moisteners), Man-

chester, N. H.

Sengbusch Self-Closing Inkstand Co., Milwau-

kee, Wis.

Staybolt Iron

(See Iron, Staybolt)

Staybolts

Davenport, J. H. ("Davenport" Flexible), Lin-

coln, Neb

Flannery Bolt Co. ("Tate" Flexible), Frick

bldg, Pittsburg, Pa.

Hall's, Sam'l Sons, 229 W 10th, New York

Hoopes & Townsend Co. (Hollow & Solid Steel),

1330 Buttonwood, Phila., Pa

Independent Rolling Mill Co. (Solid & Hollow),

Cuyahoga Falls, O.

Thompson, Chas. A. ("Acme" Flexible), 516 N

3d. St. Louis, Mo.

Stays (Fence)

B. B. Fence Co. ("B. B."), Peru, Ind.

Crescent Metallic Fence Stay Co., Covington, O.

Cyclone Woven Wire Fence Co., Holly, Mich.

Globe Fence Co., Delevan, N. Y.

Hollinger Fence Co. (Wire Steel), Greenville, O.

Simmons & Sons, Spokane, Wash.

Stays (Stair Rail)

Brewer Bros. (Wrought, Screw, Drive or on

Plate), 614 Filbert, Phila., Pa.

Steam Boilers

(See Bollers, various kinds)

Steam Engines

(See Engines, various kinds)

Steam Feeds

ALLIS-CHALMERS CO. (Twin Engine &

Direct Acting), Milwaukee, Wis. (See

adv. index & branch offices, end of book)

Hill, W. E. & Co., Kalamazoo, Mich.

Manistee Iron Works Co. (Twin Engine, for

Saw Mill Carriage), Manistee, Mich.

Steam Fitters

(See Heating Contractors, Steam & Hot Water;

also Plumbers, Gas & Steam Fitters)

Steam Fitters' Supplies (Jobbers)

(The Firms in Plumbers' Supplies, Jobbers, is

a Duplication of this Trade)

(For Manufacturers of Steam Specialties see

Specific Article required)

ALABAMA.

ANNISTON—Anniston Supply Co.

BIRMINGHAM—Crane Co. (of Chicago), Est.

1855. (See adv. index, end of book)

Knauff, R. & Co.

Milner & Kettig Co.

Moore & Handley Hdw. Co.

MOBILE—Cunningham Hardware Co.

MONTGOMERY—Lum Machinery Co.

ARIZONA.

PHOENIX—Thayer, Ezra W.

ARKANSAS.

CAMDEN—Camden Hardware & Mill Supply Co.

FORT SMITH—Atkinson-Williams Hardware

Ayers & Co. Co.

Speer Hardware Co.

LITTLE ROCK—Wehrfritz, E. C. Machinery &

Supply Co.

CALIFORNIA.

FRESNO—Kutner-Goldstein Co.

LOS ANGELES—Busch, A. H. Co., 150 N Los

Angeles

Crane Co. (of Chicago), Est. 1855. See adv.

index, end of book)

FAIRBANKS, MORSE & CO. (of

Chicago), 136 Los Angeles. (See adv. in-

dex, end of book)

Harper & Reynolds Co., 152 N Main

Herron, R. H. Co., 214 N Los Angeles

Holbrook, Merrill & Stetson (of San Fran-

cisco), 214 N Los Angeles

Hooker, Jno. D. Co. (Inc.), 130 S. Los

Angeles

Montague, W. W. & Co. (Inc.), (of San

Francisco), 122 N Los Angeles

Pacific Coast Mfg. Co., 126 S Los Angeles

Union Hardware & Metal Co., 411 E 1st

Warren & Bailey Mfg. Co., 359 N Main

OAKLAND—Crane Co. (of Chicago), Est. 1855.

(See adv. index, end of book)

Rose, F. M. & Son, 222 San Pablo

PASADENA—Pasadena Hardware Co.

SAN FRANCISCO—Baker & Hamilton (Inc.),

2d & Berry

Barker & Kinney (of Oakland), 133 2d

Crane Co. (of Chicago), Est. 1855. (See

adv. index, end of book)

Dalziel-Moller Co., 543 Mission

Dunham, Carrigan & Hayden Co., 131

Kansas

FAIRBANKS, MORSE & CO. (of Chicago), 310 Market. (See adv. index, end of book)

Holbrook, Merrill & Stetson, 6th & Townsend

Garrett, W. T. & Co., Fremont & Natoma
Marwedel, C. W., 258 9th
Montague, W. W. & Co., Turk & Polk
Moore, Chas. C. & Co., 63 1st
O'Brien, Michael, 142 1st
Pacific Hardware & Steel Co., s w c 7th & TownsendTay, Geo. H. Co., 19th & Minnesota
Wagner, Jos. Mfg. Co., 508 Cole
Woodin & Little, 534 Mission
SAN JOSE—Stock, Jno. Sons
STOCKTON—Austin Bros.**COLORADO.**

CRIPPLE CREEK—Cripple Creek Mine & Supply Co.

DENVER—**FAIRBANKS, MORSE & CO.**, (of Chicago), 1600 17th
Goff, Frank C. & Co., "Heating Apparatus, etc.," Temple Court
Hendrie & Bolthoff Mfg. & Supply Co.
Mine & Smelter Supply Co., 17th & Blake
O'Fallan, M. J. Supply Co., 1518 Wynkoop
RICO—Rico Hardware Co.**CONNECTICUT.**BRIDGEPORT—Eaton, Cole & Burnham Co.
Engineering Supply Co.
Mills, L. H., 32 MiddleDANBURY—Danbury Hardware Co.
Hoyt, H. W. Co.

DERBY—Hallock, F. C. Co.

HARTFORD—Bidwell, J. C. & Co.
Hartford Mill Supply Co., 168 Pearl
Knox, Frank J. Co.
Plimpton & Hills Corporation

MERIDEN—Cashen, Wm. B.

MIDDLETOWN—Donovan, Jas.

Hale & Kelsey
Mills, Lyman D.

NAUGATUCK—Page, Jno. M. & Co.

NEW HAVEN—Foskett & Bishop Co., River c Blatchley av

Mersick, C. S. & Co., 292 State

Peck Bros. & Co., 125 Chestnut

Sheahan & Groark, 285 State

NEW LONDON—Darrow & Comstock Co.

NORWALK—Jones & Hotchkiss Co.

NORWICH—Barstow, J. P. & Co.

Brown, Robt. & Son.
Page, W. H. Boiler Co.

PUTNAM—Putnam Foundry & Machine Corp.

TORRINGTON—Agard Hardware Co.

Perkins, E. A. Electric Co.

WATERBURY—Barlow Bros Co.

DELAWARE.WILMINGTON—Delaware Electric & Supply
Industrial Supply Co. Co.
Speakman Supply & Pipe Co.**DISTRICT OF COLUMBIA.**

WASHINGTON—McCubbin, C. J. Co., 423 10th N. W.

Mitchell, John Jr., 1000 Penn av, N. W.

Schafer, E. G. & Co., 424 11th, N. W.

Somerville, Thos. & Sons, 316 13th, N. W.

FLORIDA.JACKSONVILLE—Christopher, Jno. G. Co.
Florida Hardware Co. (Inc.)

Hubbard, S. B. Co. (Inc.)

KEY WEST—Curry's, Wm. Sons

OCALA—Masters, H. B.

ORLANDO—South Florida Foundry & Machine Works

PENSACOLA—Wicke & Co.

GEORGIA.

AMERICUS—Sheffield-Huntington Co.

ATLANTA—Atlanta Supply Co.

Beck & Gregg Hardware Co.

Cotton States Belting & Supply Co.
General Supply Co.

AUGUSTA—Lombard Iron Works & Supply Co.

MACON—Schofield's, J. S. Sons Co.

ROME—Battley Machinery Co.

SAVANNAH—Palmer Hardware Co.

Rourke, Jno. & Sons

Weed, J. D. & Co.

WAYCROSS—Harley, P. N. Hardware Co.

IDAHO.

BOISE—Carlson-Lusk Hardware Co.

ILLINOIS.

BATAVIA—U. S. Wind Engine & Pump Co.

BELLEVILLE—Karr Supply Co.

BLOOMINGTON—Keiser-Van Leer Co.

CAIRO—Woodward Hardware Co.

CHICAGO—Advance Packing & Supply Co., 55 S Canal

Calumet Supply Co., 411 Dearborn

CARPENTER, GEO. B. & CO., 202

S Water. (See adv. index, end of book)

Channon, H. Co., 24 Market

Chicago Engineer Supply Co., 112 Lake

Chicago Heater & Supply Co. (Heaters, Radiators & Supplies), 56 Dearborn

Clow, Jas. B. & Sons, Franklin & Harrison

Crane Co. (Est. 1855), 519 S Canal. (See adv. index, end of book)

Crawford Co., 167 Plymouth ct

Crerar, Adams & Co., 11 5th av

Davies Warehouse & Supply Co., 22 N Clark

Davis, Jno. Co., 864 S Halsted

Deschauer, Stephen, 334 Blue Island av

FAIRBANKS, MORSE & CO.,

Franklin & Monroe. (See adv. index, end of book)

Federal Co., 227 Washington

GORTON & LIDGERWOOD CO.

(Boiler, Radiators, Valves, etc.), 84 Van Buren. (See adv. index, end of book)

Gould Co., 24 N Canal

Hardin, Jno., 4543 Cottage Grove av

Henion & Hubbell, 65 N Jefferson

Hennebelle Co., S Chicago & Erie avs

Holland Radiator Co., 38 Dearborn

Illinois Malleable Iron Co., 539 Diversey

International Heater Co. (of Utica, N. Y.). 48 Dearborn

KELLOGG - MACKAY - CAMERON

Co., Michigan av & 12th. (See adv. index, end of book)

Kelly & Jones Co. (of Pittsburg, Pa.). 59 Clark

Klemp, Wm. F. & Co., 138 Washington

Kroeschell Bros. Co., 29 E. Erie

Limbert, Geo. B. & Co., 49 Fulton

Lyon, Sam & Son, 8 N Canal

McCrea, Jas. & Co., 67 W Wash'n

McDonald, A. Y., 86 Lake

McMaster, Davis Supply Co., 160 Lake

MANNING, MAXWELL & MOORE,

22, 24 & 26 S Canal. (See adv. index, end of book)

Mott, J. L. Iron Works, Merchants Loan & Trust bldg

Murphy-Dugger-Clark Co., 157 Lake

Scott Valve Co., 231 Randolph

Seehausen, Wehrs & Co., 11 S Canal

Sorge, A. Jr., & Co., Monadnock blk

Steamfitters Supply Co., 205 E. Kinsie

Street, R. R. & Co., 184 Wash'n

United States Heater Co. (of Detroit). 42 Dearborn

Walsh, W. J. & Co., 114 Illinois

Weir & Craig Mfg. Co., 2425 Wallace

Western Valve Co., 179 W. Lake

Williamson, R. & Co., 88 W Washington

DECATUR—Leader Iron Works

Oakes, Wm. L.

ELGIN—Barclay, D. F.

GALVA—Mulford Heater Co.

JOLIET—Barrett Hardware Co.

KEWANEE—Western Tube Co.

MOLINE—Moline Heating & Construction Co.

Moline Pump Co.

PEORIA—Kinsey & Mahler Co.

PERU—Brunner, Chas.

QUINCY—Best, E., Plumbing & Steam Heating

ROCKFORD—America Heating Co. Co.

Ward Pump Co.

SANDWICH—Enterprise Windmill Co.

SOMONAUK—California Windmill Co.

INDIANA.

AUBURN—Zimmerman Mfg. Co.

BRAZIL—Crawford & McCrimmon Co.

BUTLER—Butler Co.

EVANSVILLE—Evansville Leather Belting

Grote Mfg. Co. Co.

FORT WAYNE—Baltes Supply Co.

INDIANAPOLIS—**FAIRBANKS, MORSE**

& Co. (of Chicago) (See adv. index, end of book)

Hide, Leather & Belting Co., 227 S. Meridian

Indianapolis Belting & Supply Co. (J. W. Faust, Prop.), 18 S Capitol av

Knight & Jillson Co., 121 S Penn

LOGANSPOUT—Hildebrandt, John J. Co.

MICHIGAN CITY—Staiger Hardware Co.

MUNCIE—Keiser, Geo. & Co.

Muncie Gas Engine & Supply Co.

NOBLESVILLE—Clark Supply House

RICHMOND—Jones Hardware Co. (Jobbers)

Richmond City Mill Works

Zoller & Craighead

TERRE HAUTE—Freitag, Weinhardt & Co.

Prox & Burgett Co.

Watson's, D. W. Sons Co.

UNION CITY—Knapp Supply Co.

IOWA.

CEDAR RAPIDS—Cedar Rapids Pump Co.

Chandler Pump Co.

Fawcett, C. E.

Iowa Windmill & Pump Co.

Kubias, F. & Co.

DAVENPORT—Davenport Heating & Plumbing

DES MOINES—Beckman Bros. Co.

Dempster Mfg. Co.

Des Moines Mfg. & Supply Co.

Globe Machinery & Supply Co.

Kurtz, L. H. Co.

DUBUQUE—Deckert, W. D. Co.

McDonald, A. Y. & Morrison Mfg. Co.

Smedley Steam Pump Co.

FORT DODGE—Leighton Bros.

KEOKUK—Sutton, Wm. P.

MUSCATINE—Barry Mfg. Co.

OSKALOOSA—Ideal Heating Co.

Iowa Mfg. Co.

SIOUX CITY—Crane Co. (of Chicago). East

1855. (See adv. index, end of book)

KANSAS.

ATCHISON—Searles Bros. Windmill & Pump

LEAVENWORTH—Great Western Mfg. Co.

TOPEKA—Bromich, Jos.

WICHITA—Rodolf, R. O.

KENTUCKY.

ASHLAND—Ashland Foundry & Machine Works

Henderson Hdw. Co.

LOUISVILLE—Ahrens & Ott Mfg. Co., 325 W Main

Cowan, Andrew & Co., 435 W Main

FAIRBANKS, MORSE & CO. (of Chicago), 519 Main. (See adv. index, end of book)

Howe Mfg. Co., 1019 Baxter av

Laib Co., 439 W Main

McWilliams, Jos. & Co., 719 W Market

Pyne, W. T., Mill & Supply Co., 1301 W

Vogel, P. A. & Sons, 135 E Main Main

Waters-Garland Co., 433 W Main

LOUISIANA.

JENNINGS—Dobbins Iron Works (Ltd.) (Jobbers)

NEW ORLEANS—Ahrens & Ott Mfg. Co. (of Louisville, Ky.). Baronne c St. Joseph

Burt, C. S. Co. (Ltd.), 826 Union

FAIRBANKS CO. (of New York),

610 Canal. (See adv. index, end of book)

Gibbens & Stream, 213 Canal

Hauptman & Loeb Co. (Ltd.), 222 S Peters

Lagan, M. D. (Ltd.). 108 Common

Louisiana Boiler & Sheet Iron Works (Ltd.), 2344 Euphrosine

Manion & Co., 622 Baronne

Murphy, John H., 643 Magazine

Payne & Joubert, 423 Carondelet

Stauffer-Eshleman & Co., 511 Canal

SHREVEPORT—Henderson, W. K.

Vordenbaumen-Eastman Co. (Ltd.)

MAINE.

AUGUSTA—Ward, Andrew D.

BANGOR—Babb, C. H. & Co.

Leighton Plumbing & Heating Co.

Union Iron Works

BIDDEFORD—Anthoine, Geo. A.

DEXTER—Fay & Scott (Inc.)

FAIRFIELD—Donnelly, D. B.

GARDINER—Robbin's, Chas. A. Son

LEWISTON—Hall & Knight Hardware Co.

Pratt, T. Lloyd

Stetson, Jos. H. Co.

PORTLAND—Barbour, J. & E. R., 8 Exchange
Blake, W. L. & Co. (Inc.), 79 Commercial
Plummer, C. M. & H. T., 48 Union
Portland Stove Foundry Co., 39 Kennebec
Smith & Abbott Co.
ROCKLAND—Lamson, F. I.
SEARSPORT—Sawyer, C. O. & Co.

MARYLAND.

BALTIMORE—Aumeu Machinery & Supply Co.
324 N Holliday
Basshor, Thos. C. Co., 28 Light
Carey Machinery & Supply Co. (Inc.), Cal-
vert & Lombard
Central Metal & Supply Co., 611 E Lombard
Crane Co. of Chicago. Est. 1855. (See
adv. index, end of book)
Crook-Horner Co., 301 N Howard
Cuyler & Mohler, 611 William
Davidson Steam Heating Co., 328 N.
Charles
Enterprise Steam & Hot Water Heating
Co., 107 E. Lombard
Jordan Supply Co., 417 N Front
Register's, J. Sons Co., Holliday & Saratoga
Robertson, Jas. Mfg. Co., 14 S Hauover
Spedden Supply Co., 913 S B'way
Standard Supply & Equipment Co., 306
Holliday
Stebbins, Wallace & Sous, Charles and Lom-
Wallace & Galt, 115 S Gay
Wood, W. E. Co., 18 N Howard
CUMBERLAND—McKaig, Merwin

MASSACHUSETTS.

ADAMS—Weston, Leroy A.
ATTLEBORO—Glifford, Jas. W. Co.
BOSTON—Anderson, G. P. (Kieley & Muel-
ler's Specialties), 163 Oliver
Boston Engineers' Supply Co., 56 Purchase
Boston Steam Specialty Co., 168 Congress
Braman, Dow & Co., 239 Causeway
Brown-Wales Co., 69 Purchase
Chesterton, Arthur W. & Co., 64 India
Crane Co. (of Chicago). Est. 1855. (See
adv. index, end of book)
Cunniingham Iron Co., Sumner, B & Fargo
Cunningham, J. H. Co., 269 Congress
Dalton-Ingersoll Mfg. Co., 169 High
Garrison, Wm. H. Co., 36 Oliver
Glchrist, Geo. E. Co., 106 High
Gurney Heater Mfg. Co. (Heating Apparatus,
etc., Supplies), 188 Franklin
Hercules Iron & Supply Co., 427 Commercial
Hubbard, W. B. & Sons Co., 176 Oliver
Jarvis Engineering Co., 61 Oliver
MANNING, MAXWELL & MOORE,
123 Oliver. (See adv. index, end of book)
Morse, Tenny & Co., 143 Pearl
Morton, Andrew M. & Co., 25 Wash'n
Perrin, Seaman & Co., 57 Oliver
Perry, J. P. & Co., 195 Devonshire
Pierce, Butler & Pierce Mfg. Co. (of Syra-
cuse, N. Y.), 50 Oliver
Roberts, Jas. H. & Co., 137 Portland
Smith & Anthony Co., 48 Union
Smith & Thayer Co. (Heating Apparatus
& Supplies), 234 Congress
Walker & Pratt Mfg. Co., 33 Union
Walworth Construction & Supply Co., 100
Walworth Mfg. Co., 132 Federal
Webb, F. W. Mfg. Co., 52 Elm
CHELSEA—International Heater Co. (of Utica,
N. Y.)

FALL RIVER—Fall River Steam & Gas Pipe
Miller, Nathan Corporation
GARDINER—Royal Steam Heater Co.
HAVERHILL—Mills & McClintock
HOLYOKE—Holyoke Valve & Hydrant Co.
Russell, J. & Co.
LOWELL—Barker, H. R. Mfg. Co.
Farrell & Conaton
Middlesex Machine Co.
LYNN—Bourneuf, Louis & Co.
Trefethern, Frank L.
MIDDLEBORO—Pierce, Thos. W.
MILFORD—Ellis, Clark & Sons
NEW BEDFORD—New Bedford Boiler & Ma-
chine Co.

NORTH ADAMS—Hunter, Andrew W.
NORTH ATTLEBORO—Hall, Wm. M.
ORANGE—Chase Turbine Mfg. Co.
PITTSFIELD—Robbins, Gamwell & Co.
SPRINGFIELD—Gilbert & Barker Mfg. Co.
Hitchcock Supply Co. (Inc.)
New England Plumbing Supply Co.
Oliver & Howland Co.
WYCKOFF & LLOYD CO., 35 Ly-
man. (See adv. index, end of book)
TAUNTON—Dighton Furnace Co.
WESTFIELD—Smith, H. B. Co.

WORCESTER—Braman, Dow & Co. (of Bos-
ton, Mass.)
Burlingame, A. Co.
Callahan Supply Co.
Central Supply Co.
Washburn & Garfield Mfg. Co.

MICHIGAN.

BAY CITY—Bialy Hardware & Supply Co.
Jennison Hardware Co.
Styninger, Jno. A.
CALUMET—Cariton Hardware Co.
DETROIT—Anderson, Kenneth Mfg. Co., 35
E. Atwater
Conkling, Sam'l P., 20 E Atwater
Detroit Heating & Lighting Co., Wight cor
Lieb
Detroit Lead Pipe & Sheet Lead Works,
Summit & River
Detroit Ship Building Co. (Brass Dept.), ft
of Orleans
FAIRBANKS, MORSE & CO. (of
Chicago), 89 Jefferson. (See adv. index,
end of book)
Harvey's, A. Son's Mfg. Co. (Ltd.), 22 1st
Lane Bros., 232 Michigan av
McRae & Roberts Co., 227 Campbell av
Muzzy-Lyon Co., 58 Woodward av
Park & McKay Co., 55 Bagley av
Roe, J. A. Co., 12 E Atwater
Sales & Broad Co., 76 Jefferson av
Strellinger, Chas. A. Co., 98 Bates
Walker Mfg. & Supply Co., 136 W Larned
GRAND RAPIDS—Ferguson Supply Co. (Ltd.)
Grand Rapids Supply Co.
Leitelt, Adolph Iron Works
Sproul & McGurrian
Studley & Barclay
IONIA—Webber Hardware Co.
JACKSON—Holton & Weatherwax Co. (Ltd.)
KALAMAZOO—Dutton, C. H. Co.
Smith & Pomeroy Windmill Co.
LANSING—Michigan Supply Co.
MENOMINEE—Emerson Supply Co.
MUSKEGON—Howden, J. J. Co.
Towner Hardware Co.
SAGINAW—Eureka Heating & Ventilating Co.
Morley Bros. (Inc.)
Saginaw Hardware Co.
Wickes Bros.
SAULT STE MARIE—Soo Hardware Co.
WESTON—Vail & Smith Co.

MINNESOTA.

DULUTH—Crane Co. (of Chicago), Est. 1855.
(See adv. index, end of book)
Marshall-Wells Hardware Co.
MANKATO—Mankato Mfg. Co.
MINNEAPOLIS—Bruchholz, August F., 217
Central Supply Co., 251 S 3d
Crane Co. (of Chicago), Est. 1855. (See
adv. index, end of book)
Dean & Co., 404 N Wash'n av
Engineering & Steam Supplies Co., 227 S 3d
FAIRBANKS, MORSE & CO. (of
Chicago), 220 Nicollet av. (See adv. in-
dex, end of book)
Gillmore, D. M. Co., 515 S 3d
KELLOGG - MACKAY - CAMERON
Co., 100 2d, S. (See adv. index, end of
book)
Minneapolis Tubular Well Co., 311 N 3d av
Plumbing & Steamfitting Supplies Co., 212
N 1st
ST. PAUL—Crane Co. (of Chicago), Est. 1855.
(See adv. index, end of book)
Crane & Ordway Co., 250 E 4th.
FAIRBANKS, MORSE & CO., (of
Chicago), 234 E 3d. (See adv. index, end
of book)
Robinson & Cary Co., 4th cor Wacouta
Rugg, H. P. & Co., 382 Jackson
Western Supply Co., 348 Wacouta
STILLWATER—Bronson, J. N.
WINONA—Green, Thos. J.
Toye, Michael

MISSISSIPPI.

CORINTH—Adams, W. T. Machine Co.
MERIDIAN—Hyde, Chas. J.
NATCHEZ—Feltus Bros.
YAZOO CITY—Crane-Hinman Hardware Co.

MISSOURI.

JOPLIN—Halyard Hardware Co.
Joplin Hardware Co.
McNeal Machinery Co.
KANSAS CITY—Burton, Clarence A. Machin-
ery Co., 2nd & Main

Crane & Co. (of Chicago), Est. 1855. (See adv.
index, end of book)
English Iron Works Co., 408 W 5th
FAIRBANKS, MORSE & CO. (of
Chicago), 1217 Union av. (See adv. index,
end of book)
Great Western Mfg. Co. (of Leavenworth,
Kans.), 1221 Union av
KELLOGG - MACKAY - CAMERON
Co., 2d & Main. (See adv. index, end of
Reeves Supply Co., 1304 McGee. book)
U. S. Water & Steam Supply Co., 1315 W
12th

Young, W. B. Supply Co., 212 Delaware
ST. JOSEPH—Horgan Supply Co.
ST. LOUIS—AMERICAN RADIATOR CO.
(of Chicago), 207 N 10th. (See adv. in-
dex, end of book)
Cahill-Swift Mfg. Co., 20 S 12th
Colcord, W. R. Machinery Co., 821 N 2d
Crane Co. (of Chicago), Est. 1855. (See
adv. index, end of book)
FAIRBANKS, MORSE & CO. (of
Chicago), 8th c Clark av. (See adv. index,
end of book)
Handlan-Buck Mfg. Co., 210 N 3d
Johnson, Wm. C. & Sons, 513 N 2d
Kupferle Bros. Mfg. Co., 600 N 2d
MANNING, MAXWELL & MOORE,
305 Frisco bldg. (See adv. index, end of
book)

Materne Mfg. Co., 18th & Gratiot
Miller & Brockman, 214 Lucas av
National Plumbing Supply Co., 110 S 12th
Nelson, N. O. Mfg. Co., 10th & Chestnut
Rumsey, L. M. Mfg. Co., 810 N. 2nd
Spring, Harry C. Supply Co., 715 N 2d
Steam Appliance Co., Chemical bldg
Streett, J. D. & Co., 809 N 2d
Western Iron & Supply Co., 938 N 2d
WEBB CITY—Franz Hardware Co.
Webb City Iron Works

MONTANA.

ANACONDA—Anaconda Copper Mining Co.
BUTTE—Montana Hardware Co.
GREAT FALLS—Lowry Engineering Co.
HELENA—Holter, A. M. Hardware Co.
MISSOULA—Missoula Mercantile Co.

NEBRASKA.

GRAND ISLAND—Upperman & Leiser.
LINCOLN—Cooper & Cole Bros.
OMAHA—Crane Co. (of Chicago), Est. 1855.
(See adv. index, end of book)
FAIRBANKS, MORSE & CO. (of
Chicago), 1102 Farnum. (See adv. index,
end of book)
Lehmer, Jos. R., 1212 Farnam
U. S. Supply Co., 1108 Harney

NEW HAMPSHIRE.

LANCASTER—Thompson Mfg. Co.
MANCHESTER—Pike & Heald Co.

NEW JERSEY.

CAMDEN—Fullmer, A. J.
ELIZABETH—Elizabeth Hardware Co.
JERSEY CITY—Gibbons, Ernest A., Hudson
& Morris
Griffing, A. A. Iron Co., 449 Communipaw
Jersey City Supply Co., 12 Mercer av
Perkins, Arthur L., 283 Warren
KEYPORT—Force & Wyckoff
NEWARK—Banister & Pollard, 206 Market
Chambers & Ainslee, 2 Commercial
Conover, J. B. Co., 47 Mechanic
Denny Bros., 15 Mechanic
Egbert, W. V. & Co., 35 Mechanic
Gray, R., Jr., 190 Market
Macknet & Doremus, 796 Broad
Roe & Conover, 200 Market
NEW BRUNSWICK—Weigel, Philip, Jr.
ORANGE—Lindsley, John N.
PATERSON—McNab & Harlin Mfg. Co. (of
Myers, G. A. & Co. New York)
Van Winkle, J. A. Co.
TRENTON—Katzenbach, F. S. & Co.
Warren, Balderston & Co.
WEEHAWKEN—Berger, Edw. W. & Bro.

NEW MEXICO.

ALBUQUERQUE—Whitney Co.

NEW YORK

ALBANY—Albany Hardware & Iron Co., 43 State
Bates, Edw. P. (of Syracuse), 310 B'way
Wing, Robt. B. & Son, 385 B'way
ALBION—Waterman, G. M.
BINGHAMTON—Gaylord & Eltapence Co.
Shapley & Wells
BUFFALO—Bean-Schermerhorn & Co., 69 Main
Buffalo Machinery Co., 24 Burwell pl
Case, W. A. & Son Mfg. Co., 31 Main
Dixon & Ballou, Ellicott sq
Hamill, D. L., 60 Delaware av
Plumbers' & Steamfitters' Supply Co., 246
Ruckel, J. H. & Son, 81 Main
Schaefer & Co., 226 Ellicott
Whittet, Barrett & Co., 61 Main
CANANDAIGUA—Cooley, A. E. Co.
COHOES—Kavanaugh, Geo. W.
Sweet & Doyle
GENEVA—Herendeen Mfg. Co.
Geneva Boiler Works
New York Central Iron Works Co.
GREENPORT—Heddes, Samuel P.
HORNELL—McGuire, Chas. F.
KINGSTON—Canfield Supply Co.
LOCKPORT—American District Steam Co.
Trevor Mfg. Co.
NEWBURGH—Smith, Albert C. & Co.

NEW YORK CITY.

Borough of Brooklyn.

BROOKLYN—Delaney, Thos. M., 576 Atlantic
Jacobs, Geo. P. & Co., 276 S 9th av
Knight, Thos. G. Co., 52 Myrtle av
McElraevy & Hauck Co., 440 Broadway
Munkenberg Bros., 88 Hamilton av
Phillips, Doup & Co., 56 Pearl
Ronalds & Johnson Co. (of New York), 45
Scollay, John A., 74 Myrtle av Boerum pl
Spencer & Haviland, 174 S Portland
Wilfert, Jno. & Co., 490 Bushwick av

Boroughs of Manhattan & Bronx

NEW YORK—Adee, Fred & Co., 44 Cliff
Barr, Edw. Co., 90 John
Beals, H. H., 51 Cliff
Beggs, Jas. & Co., 109 Liberty
Behrer & Co., 81 Beekman
Bernard-Greenwood Co., 20 Desbrosses
Bushnell, John S. & Co., 123 Liberty
Campbell Supply Co., 161 E 54th
Chase, H. M. & H. F., 95 Liberty, New York
Clow, Jas. B. & Sons (of Chicago), 11 B'way
Colwell Lead Co., 63 Centre
Cornell & Underhill, 47 Beach
Covering & Supply Co., 401 G'wich
Crane Co. (of Chicago), Est. 1855, 490
Cherry. (See adv. index, end of book)
Curran, Jas. Mfg. Co., "Heating Apparatus," 512 W 36th
Dame & Townsend Co., 27 Cliff
Dienst, A. P. Co., 2604 3d av
Dimock & Fink Co., 220 E 125th
Du Bois, F. N. & Co., 243 9th av
Dunham, Carrigan & Hayden Co. (of San Francisco, Cal.), 127 Duane
Fairbanks Co., cor Elm & Broome
FAIRBANKS, MORSE & CO. (of Chicago), 133 Liberty. (See adv. index, end of book)
Gallagher, Jos. E., 80 John
Garrett, W. D. & Co., 180 Fulton
Glenn, G. W., 439 W 42d
Gibbous, Jno. V., 133 Greenwich
Glills & Geoghegan, 539 W B'way
GORTON & LIDGERWOOD CO.
(Boilers, Radiators, Valves, etc.), 96 Liberty. (See adv. index, end of book)
Greason Mfg. Co., 108 W 99th
Gurney Heater Mfg. Co. (of Boston), 111
Humbert, Jas. S., 111 Cedar 5th av
Hussey, W. H. & Son, 148 W 35th
International Heater Co. (of Utica, N. Y.), 1 Madison av
Kay, Wm. H., 224 Fulton
Keating, Edw. F. Co., 446 Water
Kelly & Jones Co., 15 Park row
Lederman, Samuel, 562 Amsterdam av
Locke & Smith Co., 103 W 37th
McMann, Thos. R. Sons, 56 Gold
McMann & Taylor, 104 John
McNab & Harlin Mfg. Co., 56 John
McShane, Wm. Co., 711 6th av
MacSorley Co., 44 Manhattan

MANNING, MAXWELL & MOORE, 85.
87 & 89 Liberty. (See adv. index, end of book)

Marine Mfg. & Supply Co., 158 South
Markt & Struller Co. (Exporters), 193 West
Mayor, Lane & Co., 128 White
Montgomery & Co., 105 Fulton
Motley, Green & Co. (Inc.), 68 Broad
Mott, J. L. Iron Works, 118 5th av
Murray, John A., 625 6th av
Nason Mfg. Co., 71 Beekman
Nevius, Theo. M., 90 John
Paucoust, Rogers & Richards, 28 Platt
Patterson, Gottfried & Hunter (Ltd.), 148 Centre

Peck Bros. & Co. (of New Haven, Conn.), 27 W 42d
Pierce, Butler & Pierce Mfg. Co. (of Syracuse), 254 4th av

Pollock, Alex. Co., 203 West
Ransom, Stephen, 402 West
Roberts, Geo. I. & Bros., 471 4th av
Robertson, Jas. L. & Sons, 48 Warren
Rogers, Henry A. Co., 19 John
Ronalds & Johnson Co., 54 Cliff
Rumsey Pump & Machine Co., 75 Warren
Russell, W. A. & Co., 89 Centre
SIMMONS, JOHN CO., 106 Centre.
(See adv. index, end of book)

Standard Plumbing Supply Co., St. Ann's av & 159th

Star Lubricating Co., 140 W 32d
Starratt & Jones Co., 131 Worth
Strong Machinery & Supply Co., 48 Franklin
Tucker, Cummings H., Jr., 135 Greenwich
Tufts, Walter B., 96 John
U. S. Heater Co. (of Detroit and Chicago), 129 Worth

Urquhart's, John S. Son & Co., 46 Cortlandt
Walker & Chambers, 50 E 20th
Walworth Mfg. Co. (of Boston), 15 Park Row

Borough of Queens.

LONG ISLAND CITY—Brodie, Wm., 31 Vernon av

(END OF NEW YORK CITY)

NIAGARA FALLS—Elderfield - Hartshorn Hardware Co.

NORTH TONAWANDA—Niagara Radiator Co.
OGDENSBURG—Nash Bros. & Co.

OSSINING—Barlow & Co.
POUGHKEEPSIE—Adriance, Peter & Son
Poughkeepsie Foundry & Machine Co.

ROCHESTER—Howe & Bassett, 23 Stillson
Reynolds, Jas. Co., 35 Mill
Sloan, Samuel & Co., 67 Exchange

SAUGERTIES—Lamb, Daniel
SCHENECTADY—Stevenson Bros.

SYRACUSE—Bates, Edw. P., 228 W Water
Joy, Edw., 125 Market

Kleffer Bros., 220 N Salina
McClure, R. C. Co., 329 S Clinton

Pierce, Butler & Pierce Mfg. Co., 234 James
Syracuse Supply Co. (Ltd.), 314 W Fayette

TONAWANDA—Gillie Engine & Machine Co.
TROY—Aird-Don Co., 411 River

Barnes, Wm. H., 14 1st
Barnum Bros. Co., 179 River

Horan, J. J. & Co., 215 River
Mulligan & Schermerhorn, 2d c State

Troy Belting & Supply Co., 6 Graud
UTICA—Bates, Edw. P., 38 Pearl

International Heater Co., 21 Park av
Millar, Chas. & Son Co.

WATERTOWN—Hunting Co.
Spratt & Corcoran

Weekes, Jno. & Son Co.

NORTH CAROLINA.

CHARLOTTE—Charlotte Supply Co.
General Fire Extinguisher Co. (of Providence, R. I.)
Tompkins, D. A. & Co.

GOLDSBORO—Dewey Bros.
GREENSBORO—Odell Hardware Co.

NEW BERN—Hyman Supply Co.
RALEIGH—Young & Hughes

WINSTON SALEM—Crawford Plumbing & Mill Supply Co.

NORTH DAKOTA.

FARGO—Crane Co. (of Chicago), Est. 1855.
(See adv. index, end of book)

OHIO.

AKRON—Hardware Supply Co. (Pipe & Fittings, etc.)
Rohrbacher & Allen

CANTON—Canton Hardware Co.
McLain, J. H. Co.

Miller, M. W.
Novelty Iron Co.

CINCINNATI—Bourbon Copper & Brass Works, 618 E Front

Crane Co. (of Chicago), Est. 1855 (See adv. index, end of book)

Crane-Hawley Co., N. W. Court & Sycamore

Deckebach, F. C. Sons Co., 129 W Court
FAIRBANKS, MORSE & CO. (of Chicago), 307 Walnut. (See adv. index, end of book)

Geerin Bros. & Co., 422 E 8th

Hesterberg, Robert & Co., Spring Grove & Gerrard avs

Johnston, Wm. T. Co., 520 Main
KINSEY, E. A. CO. (Machine Shop Machinery, Tools & Supplies), 331 W 4th.
(See adv. index, end of book)

Laidlaw-Dunn-Gordon Co., 211 W 4th

McGowan, John H. Co., 54 Central av

Merkel Bros., Canal & Jackson

Merrie, Hugh, 124 E 8th

Nichol, Thos. J. & Co., cor Pearl & Ludlow

Queen City Supply Co., Pearl & Elm

Whitman & Barnes Mfg. Co., 1st Nat. Bk. Bldg.

CLEVELAND—Bingham, Wm. Co., 1455 W Bliss, Harry A., Arcade bldg 9th

Buckeye Heating & Supply Co., 1368 W 2d

Chafer & Becker Co., 431 Champlain av, N. W.

FAIRBANKS, MORSE & CO. (of Chicago), 99 Water. (See adv. index, end of book)

Fisher, E. W. Co., 811 Superior av, N. E.

Kennedy Co., 1310 Huron rd., S. E.

Lockwood-Taylor Hardware Co., 1369 W 9th

McIntosh Hardware Corp'n, 725 Superior.

MANNING, MAXWELL & MOORE, Willamson bldg. (See adv. index, end of book)

Metal Sales Co., Citizen's bldg of book)

PATTISON, W. M. SUPPLY CO., 197-211 St. Clair av. (See adv. index, end of book)

Sanitary Co., 1-9 Water book)

Standard Mfg. Co. (of Pittsburg, Pa.), 648 Huron rd., S. E.

STRONG, CARLISLE & HAMMOND Co., 333-344 Frankfort av, N. W. (See adv. index, end of book)

Worthington, Geo. Co., 814 St. Clair av, N. W.

COLUMBUS—Ascher Supply Co., 288 N High

Columbus Supply Co., 37 W Spring

Columbus Tool & Supply Co., 168 N 3d

Engineers' & Plumbers' Supply Co.

Miller, W. H. Co., 80 W Broad

Scioto Valley Supply Co.

DAYTON—Buckeye Iron & Brass Works

Dayton Supply Co.

Larkin M. D. Supply Co., 113 E 3d

DEFIANCE—Defiance Machine Works

FINDLAY—Adams Bros. Co.

Went, C. H.

Wyssbrod, E. V. & Co.

GREENVILLE—Ross Supply Co.

HAMILTON—Walker, John L. Co.

MANSFIELD—Barnes Mfg. Co.

Humphries Mfg. Co.

Ohio Brass Co.

MIDDLETOWN—Arpp, John

NAPOLEON—Heller-Aller Co.

TOLEDO—Arbuckle-Ryan Co., 724 Monroe

Grosswiller, J. F. Supply Co., 133 Michigan

National Supply Co., Washington & St. Clair

TROY—Coles, Schaible & Smith Hatfield & Scott

WARREN—Warren Hardware Co.

YOUNGSTOWN—Morris Hardware Co.

Stambaugh-Thompson Co.

Scholl & Semple Co.

ZANESVILLE—Le Roy, Jos. A.

OKLAHOMA TERRITORY.

OKLAHOMA CITY—Crane Co. (of Chicago), Est. 1855. (See adv. index, end of book)

OREGON.

ASTORIA—Fisher Bros. Co.

PORTLAND—Corbett, Failing & Robertson (Inc.), 84 Front

Crane Co. (of Chicago), Est. 1855. (See adv. index, end of book)

FAIRBANKS, MORSE & CO. (of Chicago) (See adv. index, end of book)

Gauld Co., 14 N 1st

Kilne, M. L., 84 Front

Loewenberg & Going Co., Irving c 18th

McPherson, W. G. Co., 47 1st

PENNSYLVANIA.

ALLEGHENY—Carlin Machinery & Supply Co., Inc.
 ALLENTOWN—Albright, Son & Co.
 Taylor, Wm. H. & Co.
 ALTOONA—Standard Supply & Equipment Co.
 ASHLAND—Buck, Peter E. & Sons
 BETHLEHEM—Rice, Fred J.
 BRADFORD—Bovaird & Seyfang Mfg. Co.
 Emery, L., Jr., & Co.
 Oil Well Supply Co. (of Pittsburgh)
 BUTLER—Campbell, J. G. & W.
 Kesselman & Co.
 CARBONDALE—Van Bergen & Co.
 CHAMBERSBURG—Gilbert, Daniel
 CHESTER—Riley, Benj. F.
 CHICORA—Hays, E. F.
 Hoch Bros.
 CLARION—Magee, John A. & Son
 CONSHOHOCKEN—Bate, Wm. T. & Son
 CORRY—Barlow Hardware Co., Ltd.
 DU BOIS—Du Bois Iron Works
 DUKE CENTER—Berry & Duke
 EMLENTON—Bennett Hardware Co.
 Mitchell, H. B. & Co.
 Weller, J. A. & Son
 ERIE—Erie Mfg. & Supply Co.
 Jarecki Mfg. Co.
 FRANKLIN—Emery, W. N. & Son
 FREELAND—Birkbeck, Wm.
 Freeland Plumbing & Plumbing Supplies Co.
 GREENSBURG—Kelly & Jones Co. (of Pittsburgh)
 GREENVILLE—Packard Hardware Co.
 HARRISBURG—Harrisburg Steam Heat & Power Co.
 Mather, Edmund, 36 N 2d
 HAZLETON—Bright, J. C. & Co.
 Hazleton Machinery & Supply Co.
 JOHNSTOWN—Johnstown Supply House
 Swank Hardware Co.
 KINGSTON—Roat, A. J.
 LANCASTER—Central Machine Works
 Reilly Bros. & Raub
 Sheet Metal & Supply Co.
 Steinman Hardware Co.
 LATROBE—Gilligan, Jno.
 LEBANON—Krause, Geo. Hardware Co.
 LEWISBURG—Proctor, G. W. & Son
 MEADVILLE—Lord, L. L. Co.
 MECHANICSBURG—Hauck Bros.
 MEYERSDALE—Shipley Hardware Co.
 MOUNT JOY—Moyer, Gabriel
 OIL CITY—Logan, Robt.
 Oil Well Supply Co. (of Pittsburgh)
 United Hardware & Supply Co.
 PHILADELPHIA—Belfield, H. & Co., 435 N Bell, Harry E., 212 Church Broad
 Billington, J. H. Co., 113 Chestnut
 Biessing, C. A., 516 Montgomery av
 Bond, Chas., 520 Arch
 Bowman, H. L. & Co., 31 S 4th
 Bridgman Bros. Co., 1422 Washington av
 Brogan & Co., 810 Race
 Cox & Sons Co., 215 Race
 Crane Co. (of Chicago), Est. 1855, 220 S 5th. (See adv. index, end of book)
 Fleck Bros. & Co., 44 N 5th
 Ford & Kendig Co., 1432 Callowhill
 Froelich Bros., 142 N 7th
 Getze & Bro., 507 Arch
 Griffing, A. A. Iron Co. (of Jersey City), 380 Phila. Bourse
 Haddock, Chas., 343 N 3d
 Haines, Wm. S. Co., 136 S 4th
 Haines, Jones & Cadbury Co., 1136 Ridge av
HARTMAN CO., 1231 N Front. (See adv. index, end of book)
 Hunter & Dickson Co., 241 Arch
 Huyette, Paul B. Co., Inc., 1225 Betz bldg
 Maddock & Co., 40 N 6th
 Maneely, John, 309 Arch
MANNING, MAXWELL & MOORE, 721 Arch. (See adv. index, end of book)
 Model Heating Co. (Steam Heating Apparatus, etc.), 142 N 10th
 Mott, J. L. Iron Works, 1123 Walnut
 Owen & Saiter, 460 N 12th
 Pancoast, Henry B. & Co., 243 S 3d
 Penn Engineering Co., 312 Cherry
 Perkes, Chas., 627 Arch
 Rainear, C. J. & Co., 518 Arch
 Ronalds & Johnson Co. (of New York), 139 N 7th
 Schade, Albert, 627 Cherry (mfrs.' agts.)
 Sees & Faber, 2010 N Front
 Shuster Foundry Co., Franklin & Willow
 Spaulding & Metcalf, 532 Arch
 Standard Supply & Equipment Co., 1710 Market
 Tatnall Engineering Co., Arcade bldg
 Tromey, Frank J., 131 N 3d
 Watt's, John M. Sons, Trenton & Sergeant

Webb, Elisha & Son Co., Water & Chestnut
 Whetstone & Co. (Inc.) (Pipe & Fittings, etc.), 911 Filbert
 Williamson & Cassedy, 526 Market
 PHOENIXVILLE—Caswell & Moore
 PITTSBURG—Anchor Sanitary Co., 123 3d av
 Bailey-Farrell Mfg. Co., Bailey-Farrell
 Bonar, Jas. & Co. (Inc.), Frick bldg
 Bovaird & Seyfang Mfg. Co. (of Bradford, Pa.), 548 2d av
 Duquesne Sanitary Co., 2d av & Cherry av
 Frick & Lindsay Co., 109 Wood
 Harris Pump & Supply Co., 322 2d av
 Heyl & Patterson, 51 Water
 Hickman, V. Q., 345 4th av
 Hyde Bros. & Co., Empire bldg
 Jarecki Mfg. Co. (Ltd.) (of Erie, Pa.), 1005 Liberty av
 Kelly & Jones Co., 135 Water
 Konold, M. J. Co., Bessemer bldg
 McKnight & Victory, 413 4th av
MANNING, MAXWELL & MOORE, Park bldg. (See adv. index, end of book)
OIL WELL SUPPLY CO., 215 Water. (See adv. index, end of book)
 Pittsburgh Gage & Supply Co., 307 Water
 Pittsburgh Supply Co., 439 Water
PITTSBURG VALVE, FOUNDRY & CONSTRUCTION CO., 26th & A. V. R'y. (See adv. index, end of book)
 Reineke-Wilson Co., 15 Wood
 Russell Machine Co., 28th & A. V. R'y
 Somers, Filter & Todd Co., 327 Water
 Standard Supply & Equipment Co., 811 Turner, Chas. A., 14 Market Liberty av
 Valley Supply Co., 8 Market
 POTTSTOWN—Fegely, J. & Son
 POTTSTOWN—Bright & Co.
 Pottsville Supply Co.
 READING—Bright & Co., 504 Penn
 Connard, Henry, 6th & Chestnut
 Greth Machine Works (Inc.), 629 Franklin
 Reading Scale & Machine Co.
 Stichter Hardware Co. (Ltd.)
 Xander Machine & Supply Co.
 SCRANTON—Everhart Brass Works
 Hunt, Alex. E.
 O'Malley Mfg. Co.
 Scranton Supply & Machinery Co.
 SHARON—Fruit-Ohl & Co.
 SOMERSET—Schell, P. A. (of Connellsville)
 TITUSVILLE—Kernochan & Co.
 United Hardware & Supply Co.
 TUNKHANNOCK—Billings, Paul & Co.
 WARREN—Picket Hardware Co., Ltd.
 WILKES-BARRE—Carpenter, B. G. & Co.
 Phelps, Lewis & Bennett Co.
 WILLIAMSPORT—Keefer, E. Co.
 Kline & Co.
 Moltz, Jacob J.
 YORK—Small, P. A. & S.

RHODE ISLAND.

PAWTUCKET—Jackson, Samuel Co.
 Pawtucket Steam & Gas Pipe Co.
 PROVIDENCE—Allen & Reed (Inc.), 178 Dor-
 Conlin, J. C., 17 Wash'n rance
 General Fire Extinguisher Co., Union Trust bldg
 Phillips Lead & Supply Co., 91 S Main
 R. I. Supply & Engineering Co., 156 W Exchange
 Winsor, Ira & Co., 169 Dorrance

SOUTH CAROLINA.

CHARLESTON—Bailey-Lebby Co.
 Cameron & Barkley Co.
 Pitcher, C. S.
 Valk & Murdoch Iron Works

SOUTH DAKOTA.

WATERTOWN—Crane Co. (of Chicago), Est. 1855. (See adv. index, end of book)

TENNESSEE.

BROWNSVILLE—Praecht, Chas. W.
 CHATTANOOGA—Fritts, Tom Hardware Co.
 James Supply Co.
 JACKSON—Southern Engine & Boiler Works
 KNOXVILLE—Scott's Patent Brick Car Co.
 MEMPHIS—Bailey, J. A. & Co.
 Browne & Borum
 Chickasaw Iron Works
 Crane Co. (of Chicago), Est. 1855. (See adv. index, end of book)
 Orgill Bros. & Co.
 Riechman-Crosby Co.
 NASHVILLE—Fall, J. H. & Co. (Inc.)
 Keith, Simmons & Co.
 Nashville Machine Co.

TEXAS.

AUSTIN—Tips, Walter
 DALLAS—Briggs-Weaver Machinery Co.
 Kinnison Bros.
 Crane Co. (of Chicago), Est. 1855. (See adv. index, end of book)
 Wolfe, B. F. & Co.
 GALVESTON—Shean, Paul Sanitary Plumbing & Mfg. Co.
 HOUSTON—Heltman, F. W. Co.
 Smith, Howard & Co.
 SAN ANTONIO—San Antonio Machine & Supply Co.
 TYLER—Connally, Walter & Co.
 Smith-Palmore Machinery Co.
 WACO—Strauss, E.

UTAH.

OGDEN—Halverson Bros.
 SALT LAKE CITY—Crane Co. (of Chicago), Est. 1855. (See adv. index, end of book)
FAIRBANKS, MORSE & CO. (of Chicago), 218 S. W. Temple. (See adv. index, end of book)
 Salt Lake Hardware Co.
 Silver Bros. Iron Works Co.

VERMONT.

BELLOWS FALLS—Allbee, Geo. B.
 RUTLAND—Lincoln Iron Works
 Steam Stone Cutter Co. (Valves, Pipe & Fittings, etc.)

VIRGINIA.

CHARLOTTEVILLE—Wood, J. Edwin Co.
 LYNCHBURG—Barker-Jennings Hardware Co.
 NORFOLK—Mayer & Co.
 Taylor, W. H. & Co.
 Virginia-Carolina Supply Co.
 Waite, Henry Co.
 White, E. V. & Co. (Inc.).
 PETERSBURG—Stratton & Bragg Co.
 RICHMOND—Bargamin, G. & A.
 Frischkorn, Hunter B.
 Smith-Courtney Co.
 Sydnor Pump & Well Co.
 ROANOKE—Nelson Hardware Co.
 SUFFOLK—Folk, E. L. & Co.

WASHINGTON.

BELLINGHAM—Morse Hardware Co.
 OLYMPIA—Olympia Hardware Co.
 SEATTLE—Crane Co. (of Chicago), Est. 1855. (See adv. index, end of book)
 Hambach, A. Co.
 Hofius Steel & Equipment Co.
KELLOGG - MACKAY - CAMERON CO (See adv. index, end of book)
 Mitchell, Lewis & Staver Co.
 Puget Sound Machinery Depot
 Washington Iron Works Co.
 SPOKANE—Bradley Engineering & Machinery Co.
 Crane Co. (of Chicago), Est. 1855. (See adv. index, end of book)
FAIRBANKS, MORSE & CO. (See adv. index, end of book)
 Holley, Mason Hardware Co.
 Spokane Hardware Co.
 TACOMA—Caidwell Bros. Co. (Inc.)
 Crane Co. (of Chicago), Est. 1855. (See adv. index, end of book)
 Hunt & Mottet Co.
 Washington Hardware Co.

WEST VIRGINIA.

CHARLESTON—Capitol City Supply Co.
 South Side Foundry & Machine Works
 CLARKSBURG—Clarksbury Supply Co.
 HUNTINGTON—Miller Supply Co.
 NEW CUMBERLAND—Davis-Price Foundry & Machine Co.
 WHEELING—Hare's, Wm. Sons
 Howe, A. D. Machine Co.
 Trimble & Lutz Co.

WISCONSIN.

EAU CLAIRE—Brooks, S. C. (Est. of)
 Hobbs, W. H. Supply Co.
 GREEN BAY—Kimball, Alonzo
 HURLEY—McConnell Hardware Co.
 LA CROSSE—La Crosse Plumbing Supply Co.
 Roosevelt, W. A. Co.
 MANITOWOC—Richards Iron Works

MILWAUKEE—Bowers, W. A. Heating Co., 482 Market
 Bowers, W. A. Heating Co., 482 Market
 Hoffmann, B. Mfg. Co., 257 6th
 Hoffmann-Billings Mfg. Co., 178 Becher
 Milwaukee Valve Co., 881 Robinson av
 Mueller, L. J. Furnace Co. (Heating Apparatus & Supplies)
 Rom, Robt. Co., 1101 St. Paul av
 Rundle-Spence Mfg. Co., 63 2d
 Wisconsin Machinery & Mfg. Co., S Canal
 nr Muskego av
 Yale, H. P. & Co., 99 W Water
OSHKOSH—Battis Bros.
RACINE—Davis Heater Co.
WAUPUN—Altthouse-Wheeler Co.
WAUSAU—Murray, D. J. Mfg. Co.

Steam Gauges

(See Gauges, Various Kinds)

Steam Heating Apparatus

(See Heaters, Steam & Hot Water; also Radiator Mfrs.; also Valve Mfrs., various kinds; also Steam Fitters' Supplies; etc.)

Steam Packing

(See Packing, Various Kinds)

Steam Pumps

(See Pumps, Various Kinds)

Steam Superheaters

(See Superheaters, Steam)

Steam Tables for Culinary Purposes

(See Cooking Apparatus)

Steam Traps

(See Traps, Steam)

Steel (Agricultural Implement)

AMERICAN SHEET & TIN PLATE Co. (Sheet), Frick bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)
 Buffalo Steel Co. (Harrow & Cultivator Bars, Plow Beams, etc.), Tonawanda, N. Y.
 Cambria Steel Co. (Gautier Dept.), Johnstown, Pa.
 Cheswick Mfg. Co., Canton, O.
 Colonial Steel Co. (Plow, etc.), Pittsburg, Pa.
 Elyria Iron & Steel Co. (High Carbon Shapes), Elyria, O.
 Harrow Spring Co., Kalamazoo, Mich.
 Inland Steel Co., First National Bank bldg, Chicago, Ill.
 La Belle Iron Works (Special Plates, Plow Slabs, etc.), Steubenville, O.
 Norwalk Steel & Iron Co. (Soft Center Plow Steel, etc.), Norwalk, O.
 Ryerson, Jos. T. & Son, Chicago, Ill.
 Star Mfg. Co. (Plow & Cultivator Shapes), Carpentersville, Ill.
 Sweet's Steel Co., Williamsport, Pa.
 Union Drawn Steel Co. (Cold Drawn), Beaver Falls, Pa., & 460 Washington, New York
 Western Tube Co., Kewanee, Ill.

*Steel (Alkali Drum)

AMERICAN SHEET & TIN PLATE Co., Frick bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

Steel (Aluminum & Bronze Clad)

Duplex Metals Co. ("Monnot" Bars, Rods, Sheets & Wire), 208 5th av, New York

Steel Angles, Channels & Tees

(See Iron & Steel Angles, Channels & Tees)

Steel Automobile Sheets

AMERICAN SHEET & TIN PLATE Co., Frick bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)
 Columbia Steel Works, Elyria, O.

MERCHANT & EVANS CO., INC. (also Tin Sheets), 517 Arch, Phila., Pa. (See adv. index & branch offices, end of book)
 Wood, Alan Iron & Steel Co., 519 Arch, Phila., Pa.
WORCESTER PRESSED STEEL CO. (Successors to Worcester Ferrule & Mfg. Co.), Worcester, Mass. (See adv. index, end of book)

Steel Axles

(See Axles, Various Kinds)

Steel Balls

(See Balls, Steel.)

Steel Bands & Hoops

(See Iron & Steel, Band & Hoop.)

Steel Bar

(See Iron & Steel Bar.)

*Steel Bars (Finished)

FREVERT MACHINERY CO. (Round, Square, Hexagon, Flats, Mfrs. Agts.), 18 Dey, New York. (See adv. index, end of book)
STANDARD GAUGE STEEL CO. (Rounds, Flats, Squares & Finished Shapes), Beaver Falls, Pa. (See adv. index, end of book)

Steel Bars for Reinforced Concrete

(See Concrete Reinforcing Materials.)

Steel Beams

(See Steel Structural Shapes, Mfrs.)

Steel Bedstead Angles

Buffalo Steel Co. (Bessemer Steel), Tonawanda, N. Y.
 Elyria Iron & Steel Co. (High Carbon Steel), Elyria, O.
 Inland Steel Co., First National Bank bldg, Chicago, Ill.

Steel Billets & Blooms

(See Billets, Steel)

Steel (Boiler & Tank Plate)

(See Iron & Steel Boiler & Tank Plate.)

Steel Brick & Rock Face Siding

AMERICAN SHEET & TIN PLATE CO. Frick bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)
BERGER MFG. CO. Main Office & Works, Canton, O. (See adv. index & branch offices, end of book)
 Cambridge Roofing Co., Cambridge, O.
CANTON ART METAL CO., Canton, O. (See adv. index, end of book)
 Chattanooga Roofing & Fdry. Co., Chattanooga, Tenn.

Dickelman Mfg. Co., Forest, O.
EDWARDS MFG. CO., Eggleston av, 4th & 5th, Cincinnati, O. (See adv. index & branch offices, end of book)
ELLER MFG. CO., Canton, O. (See adv. index, end of book)
 Goff, Horner & Co., Ltd., Frick bldg, Pittsburg, Pa. Works, Zanesville, O.
 Inland Steel Co., 1st Nat'l Bk. bldg, Chicago, Ill. Works, Indiana Harbor, Ind., & Chicago Heights, Ill.
 Kanneberg Roofing & Ceiling Co., Canton, O.

MILWAUKEE CORRUGATING CO., Milwaukee, Wis. (See adv. index, end of book)
 Penn Metal Ceiling & Roofing Co., 23d & Hamilton, Phila., Pa.
 St. Paul Roofing, Cornice & Ornament Co., St. Paul, Minn.

Sheet Metal Mfg. Co., Niles, O.
 Souther, E. E. Iron Co., 2206 N. 2d, St. Louis, Mo.
 Stoneware Tile Co., Louisville, O.

Wheeling Corrugating Co., Wheeling, W. Va.

Steel Bridges

(See Bridge Builders, Steel.)

Steel Buildings

(See Steel Structural Work.)

Steel Cars

(See Cars, Steel.)

Steel Castings

(See Castings, Steel.)

Steel Ceilings

(See Ceilings, Steel.)

Steel Cellar Doors

Harrisburg Foundry & Machine Works, Harrisburg, Pa.
MERRITT & CO., 1024 Ridge av., Phila., Pa. (See adv. index, end of book)
SCAIFE, WM. B. & SONS CO., 221 1st av., Pittsburg, Pa. (See adv. index, end of book)
 Schreiber, L. & Sons Co., 8th & Eggleston av., Cincinnati, O.

Steel Chimneys

(See Smoke Stacks, Steel)

Steel (Cold Drawn)

American Tube & Stamping Co., Bridgeport, Conn.
 Carnegie Steel Co., Carnegie bldg, Pittsburg, Pa.
 Columbia Bridge Co. (Drawn & Polished Squares, Flats, Hexagons & Shapes), Park bldg, Pittsburg, Pa.
 Disston, Henry & Sons (Inc.), Tacony, Phila., Pa., & 75 W Wash'n, Chicago, Ill.
 Finished Steel Co., Youngstown, O.
FREVERT MACHINERY CO. (Mfrs. Agts.), 18 Dey, New York. (See adv. index, end of book)
 Halcomb Steel Co. (Crucible), Syracuse, N. Y.
 Illingworth, Jno. Steel Co., 25 Cliff, N. Y.
 Kild Bros. & Burglar Steel Wire Co. (Free Cutting Screw, etc.), Allquippa, Pa.
 Pardee, C. Works, Perth Amboy, N. J.
 Superior Steel Co., Carnegie, Pa.
UNION DRAWN STEEL CO. (Rounds, Flats, Squares, Hexagons, Sheets & Shapes), Beaver Falls, Pa., & 460 Washington, New York
WORCESTER PRESSED STEEL CO., Worcester, Mass. (See adv. index, end of book)

*Steel (Cold Pressed)

STANDARD GAUGE STEEL CO. (Finished Flats, Squares, Rounds, Angles, Channels & Special Shapes), Beaver Falls, Pa. (See adv. index, end of book)
WORCESTER PRESSED STEEL CO., Worcester, Mass. (See adv. index, end of book)

Steel (Cold Rolled)

AMERICAN SHEET & TIN PLATE Co. (Sheets), Frick bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)
AMERICAN STEEL & WIRE CO., The Rookery, Chicago, Ill. (See adv. index & branch offices, end of book)
 American Tube & Stamping Co. (Hoop, Strip & Bar), Bridgeport, Conn.
 Brooksbank, Mullin & Co. (Dannemora, Imported Hot & Cold Sheet), 409 Commerce, Phila., Pa.
 Cambria Steel Co., Johnstown, Pa.
 Columbia Bridge Co. (Hexagons, Squares, Flats, etc.), Park bldg, Phila., Pa.
 Crucible Steel Co. of America, Pittsburg, Pa.
 Disston, Henry & Sons (Inc.) (Hexagon, Squares, Flats, etc.), Tacony, Phila., Pa., & 75 Wash'n, Chicago, Ill.
 Empire Iron & Steel Co. (Bessemer & Open Heartb Steel Sheets), Niles, O.
 Goff, Horner & Co. (Special Open Hearth Steel Sheets for Ceilings & Stamping Purposes), Frick bldg, Pittsburg, Pa. Works, Zanesville, O.

Jones & Laughlin Steel Co. (Hexagons, Squares, Flats, etc.), Pittsburgh, Pa.
 Kidd Bros. & Burgher Steel Wire Co. ("Flat"), Aliquippa, Pa.
 Miller & Van Winkle (Hexagons, Squares, Flats, etc.), 20 Bridge, Brooklyn, N. Y.
 Morris & Bailey Co. (Sheet), German National Bank bldg, Pittsburgh, Pa.
 Newman, C. Wire Co. (Spring Steel), 143 Liberty, New York
 Republic Iron & Steel Co. (Rounds), Frick bldg Annex, Pittsburgh, Pa.
STANLEY WORKS (Strip), New Britain, Conn., & 79 Chambers, New York. (See adv. index, end of book)
UNION DRAWN STEEL CO. (Rounds), Flats, Squares, Hexagons, Sheets & Shapes, Bessemer, Open Hearth, Crucible, Cold Die Rolled Steel), Beaver Falls, Pa., & 460 Washington, New York
 Washburn Wire Co. (Round, Square & Flat), Phillipsdale, R. I., & 118th & Harlem River, N. Y.
 West Leechburg Steel Co., Pittsburgh, Pa. Works: Leechburg, Pa.
 Wood, Alan Iron & Steel Co. (Sheets), 519 Arch, Phila., Pa.
WORCESTER PRESSED STEEL CO., Worcester, Mass. (See adv. index, end of book)

Steel (Cold Rolled, Strip)

AMERICAN STEEL & WIRE CO., The Rookery, Chicago, Ill. (See adv. index & branch offices, end of book)
 American Tube & Stamping Co., Bridgeport, Conn.
 Carpenter Steel Co. (Spring), Reading, Pa.
 Columbia Steel Co. (Flats in Widths from 1/2 to 15 1/2 inches; in all Gauges from very thin to 3-8th inch thick), Elyria, O.
 Crucible Steel Co. of America, Frick bldg, Pittsburgh, Pa.
 Disston, Henry & Sons (Inc.), Tacony, Phila., Pa.
 Elliott-Blair Steel Co. (Fine Bright Dead Soft for Sewing Machines, Typewriter, Bicycle Parts, etc.)

Firth-Stirling Steel Co., Pittsburgh, Pa. (Wheelock, Lovejoy & Co., Selling Agents, 23 Cliff, New York, & 35 Oliver, Boston, Mass.)

Griffin Mfg. Co., Erie, Pa.
 Miller & Van Winkle, 20 Bridge, Brooklyn, N. Y.

Morris & Bailey Steel Co., German Nat'l Bank bldg, Pittsburgh, Pa.
STANLEY WORKS, New Britain, Conn. & 79 Chambers, N. Y. (See adv. index, end of book)

Superior Steel Co. (Also Hot), Carnegie Pa.
 West Leechburg Steel Co., Pittsburgh, Pa. Works: Leechburg, Pa.

WORCESTER PRESSED STEEL CO., Worcester, Mass. (See adv. index, end of book)

*Steel (Conductor Pipe & Eave Trough)

AMERICAN SHEET & TIN PLATE Co., Frick bldg, Pittsburgh, Pa. (See adv. index & branch offices, end of book)

Steel (Copper Clad)

Duplex Metals Co. ("Monnot" Bars, Rods, Sheets & Wire), 208 5th av., New York

Steel Corner Plates

(See Plasterers' Steel Corner Beads)

Steel (Corrugated)

(See Iron & Steel, Corrugated)

*Steel (Dasher)

AMERICAN SHEET & TIN PLATE Co., Frick bldg, Pittsburgh, Pa. (See adv. index & branch offices, end of book)

*Steel Factory Equipments

LYON METALLIC MFG. CO., Aurora, Ill. (See adv. below)

Steel Fence Posts

(See Posts, Steel Fence)

*Steel Filing Equipment

(See also Filing Cabinets & Devices.)

GENERAL FIRE-PROOFING CO., Youngstown, O., & 156 Fifth av., New York. (See adv. index & branch offices, end of book)

Steel Fire Box Plate

(See Plate, Steel Fire Box)

Steel Floor Plate.

(See Plates, Floor, Iron & Steel)

Steel Folding Gates

(See Gates, Folding)

Steel Forgings

(See Forgings, Iron & Steel)

*Steel (Gas Holder)

AMERICAN SHEET AND TIN PLATE Co., Frick bldg, Pittsburgh, Pa. (See adv. index & branch offices, end of book)
 Wood, Alan Iron & Steel Co., 519 Arch, Philadelphia, Pa.

*Steel Hardening

McCABE HANGER MFG. CO., 425 W 25th, New York. (See adv. index, end of book)

WORCESTER PRESSED STEEL CO. (Successors to Worcester Ferrule & Mfg. Co.), Worcester, Mass. (See adv. index, end of book)

STEEL FACTORY EQUIPMENT



View of equipment in Geo. N. Pierce Co.'s Plant, Buffalo, N. Y.

OUR EQUIPMENT COVERS EVERY CONCEIVABLE REQUIREMENT OF THE MANUFACTURER FOR FACILITATING THE HANDLING OF RAW AND FINISHED MATERIAL, DURING ALL THE PROCESSES OF MANUFACTURE.

WE MAKE RACKS, BOXES, BARRELS, TRUCKS, TABLES AND CLOTHES LOCKERS, ALL FROM STEEL.

WRITE FOR OUR CATALOG, IT CONTAINS MANY VALUABLE SUGGESTIONS.

LYON METALLIC MFG. CO.

AURORA, ILL.

Steel (High Speed)

Baldwin Steel Co., 133 Reade, New York, N. Y.
 Boker Herman & Co., 101 Duane, New York, N. Y.
 Bourne-Fuller Co. ("Scott's I X L"), Cleveland, O.
 Carpenter Steel Co., Reading, Pa.
 Chrome Steel Works, Chrome, N. J.
 Colonial Steel Co., Pittsburg, Pa.
 Columbia Steel Co., Chicago, Heights, Ill.
 Crucible Steel Co. of America, Pittsburg, Pa., & 71 B'way, New York, N. Y.
 Cyclops Steel Co., Titusville, Pa.
 Firth-Sterling Steel Co., Pittsburg, Pa.
 Frasse, Peter A. & Co., 94 Fulton, New York
 Halcomb Steel Co. (Crucible), Syracuse, N. Y.
 Heller Bros Co. ("Heller's," Alloy High-Speed Tool Steel), Newark, N. J.
 Hobson, Houghton & Co. (Ltd.) ("Albion"), 98 John, New York
 Houghton & Richards, Boston, Mass.
 Illingsworth, Jno. Steel Co., 25 Cliff, N. Y.
 Jessop, Wm. & Sons (Ltd.) ("Jessop's," Air Hardening), 91 John, New York. Works, Sheffield, Eng.
 Johnson, Isaac G. & Co., Spuyten Duyvil, New York, N. Y.
 Johnson & Co., St. Louis, Mo.
 Jones, E. M. & Co. ("Mushet"), 141 Milk, Boston, Mass.
 Kent, Edwin & Co. ("Allen," Air Hardening), 10 S. Canal, Chicago, Ill., & 51 John, N. Y.
 McInness Steel Co. (Extra Air Hardening), Cory, Pa.
 Marcelline Steel Co., 20 Vesey, New York
 Midvale Steel Co., Nicetown, Philadelphia, Pa.
 Nash, Geo. & Co. ("Capitol"), 217 Pearl, N. Y.
NICHOLLS, WM. S. (For All Kinds of Cutting Tools), 253 B'way, New York. (See adv. index, end of book)
 Osborn, Saml. & Co., Boston, Mass.
 Royal Metal Steel Co. ("Excelsior"), 24 State, New York
 Schuchard & Schutte, 136 Liberty, New York
 Ward, E. T. Sons, 25 Purchase, Boston, Mass.
 Wheelock, Lovejoy & Co. (Selling Agents), 23 Cliff, New York, & 35 Oliver, Boston, Mass.

Steel (Hot Rolled Strip)

American Tube & Stamping Co. (Hoop & Bar), Bridgeport, Conn.
 Firth-Sterling Steel Co., Pittsburg, Pa.
 Superior Steel Co., Carnegie, Pa.
 West Leechburg Steel Co. (For Blanking, Stamping & Drawing), Pittsburg, Pa. Works, Leechburg, Pa.

***Steel (Ice & Milk Can)**

AMERICAN SHEET & TIN PLATE Co., Frick bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

Steel Importers

Boker, Hermann & Co. (The "Jonas & Culver" Tool Steel, Drill Rods, Needle Wire, Hot & Cold Rolled Sheet Steel, Steel for Watch Clock and Other Springs, Steel & Crucible Wire Rods, etc.), 101 Duane, New York

Brown-Wales Co. (Norway & Refined Iron, Steel Bars, Angles, Tees, Plates, Structures, Material Steel Balls & Mechanical Tubing), 83 Purchase, Boston, Mass.
 Coe-Fartoute Co., Newark, N. J.
 Dana & Co., 32 Broadway, N. Y.
 Frasse Co., 134 Liberty, New York
 Hamnacher, Delius & Co. ("Gysiuge," Electro High Grade Tool Steel), 429 Greenwich, New York
 Hobson, Houghton & Co. (Tool Steel, Needle Wire, Bright Drill Rods, "Soho" Self-Hardening Steel, etc.), 98 John, N. Y.
 Houghton & Richards ("Styrian" Tool Steel & "Low Moor" & "Farnley" Iron), 148 Oliver, Boston, Mass.
 Jessop, Wm. & Sons (Ltd.) (Bars, Sheets & Plates, Air & High Speed Hardening Steel, etc.), 95 John, New York. Works: Sheffield, Eng.
 Jones, B. M. & Co. ("Mushet" High Speed Steel; Special Steel; Extra Best Titanic Steel for Chisels, Taps, Dies, Punches & High Speed Drills), 141 Milk, Boston, Mass.
 Kent, E. R. & Co. (The "Edgar Allen" Tool Steel, etc.), 10 S Canal, Chicago, Ill.
LEAVITT, C. W. & CO. (Iron & Steel Bars & Shapes), 222 B'way, New York. (See adv. index, end of book)
 Milne, A. & Co. (Norway Iron & Steel, Blooms, Billets, Bars, Wire, Rivet & Nail Rods), 1 Broadway, N. Y., & 8 Oliver, Boston, Mass.
 Nash, Geo. & Co. ("Capital" High Speed Self-Hardening & Tool Steel), 24 S Clinton, Chicago, Ill., & 217 Pearl, N. Y.
 Newklrk, Jno. B. & Co. (Structural Shapes, Bars, Sheets, etc.), 1502 Market, Philadelphia, Pa.
 Newton, J. W. (Steel, Wire Dies, etc.), 83 John, N. Y.
 Potts, Horace T. & Co. (Bars, Angles, Tees, Slabs, Beams, Channels, Billets, Blooms, Sheet Bars, etc.), 316 N 3d, Phila., Pa.
 Prosser, Thos. & Son (American Office of Fred'k Krupp), 15 Gold, N. Y.
 Reisinger, Hugo ("Victoria" Tool Steel), 11 B'way, New York
 Todd, Jno. H. L., 25 Broad, N. Y.
 Wallace, Wm. H. Co., 66 B'way, N. Y.
 Wardlow, S. & C. (Tool Steel, Cast & Double Sheet Steel, Cutlery Steel, Steel for Watches & Other Springs, etc.), 95 John, New York
 Wheelock, Lovejoy & Co., 23 Cliff, New York & 35 Oliver, Boston, Mass.

Steel Ingots

(See Ingots, Steel.)

Steel Inspection

Hunt, Robt. W. & Co. The Rookery, Chicago, Ill., & 90 West, New York

Steel (Locomotive Boiler)

AMERICAN STEEL & WIRE CO., The Rookery, Chicago, Ill. (See adv. index & branch offices, end of book)
 Carbon Steel Co., Pittsburg, Pa., & 26 Cortlandt, N. Y.
 Carnegie Steel Co., Pittsburg, Pa.
 Crucible Steel Co. of America, Pittsburg, Pa.
 Illinois Steel Co., The Rookery, Chicago, Ill.

Steel (Manganese)

Allen, Edgar Co., 51 John, N. Y.
AMERICAN BRAKE SHOE & FOUNDRY Co., 170 B'way, New York. Works: & Sales Office, Chicago Heights, Ill. (See adv. index & branch offices, end of book)
 Taylor Iron & Steel Co., High Bridge, N. J.

***Steel (Metal Wheel)**

AMERICAN SHEET & TIN PLATE Co., Frick bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)
WORCESTER PRESSED STEEL CO. (Successors to Worcester Ferrule & Mfg. Co.), Worcester, Mass. (See adv. index, end of book)

***Steel Mine & Mill Buildings (Constructors of)**

SCAIFE, WM. B. & SONS CO., 221 1st av, Pittsburg, Pa. (See adv. index, end of book)

Steel (Nickel)

AMERICAN BRAKE SHOE & FOUNDRY Co., 170 B'way, New York. Works: & Sales Office, Chicago Heights, Ill. (See adv. index & branch offices, end of book)
 Bethlehem Steel Co., South Bethlehem, Pa., & 100 B'way, New York
 Boker, Hermann & Co., 101 Duane, New York
 Carbon Steel Co., Pittsburg, Pa., & 26 Cortlandt, New York
 Crucible Steel Co. of America, Frick bldg, Pittsburg, Pa.
 Keystone Drop Forge Works, Chester, Pa.
 Midvale Steel Co., Nicetown, Phila., Pa.
 Taylor Iron & Steel Co., High Bridge, N. J.

Steel Pipe

(See Pipe & Tube Mills.)

Steel Plate

(See Iron & Steel Boiler & Tank Plate; also Iron & Steel Bridge Plate; also Plate, Steel Fire Box)

Steel Plate Work

Atlantic Works, 70 Border, E. B., Boston, Mass.
 Aurora Boiler Works (Inc.), Aurora, Ill.
 Bryan, E. A. Co., 1st Nat'l Bank bldg, Chicago, Ill. Works, Harvey, Ill.
 Coatesville Boiler Works, Coatesville, Pa.
 Columbiana Boiler Co., Columbiana, O.
 Connell, J. D. Iron Works Co.
 Cruse-Kemper Co., Ambler, Pa.
 De Pere Boiler & Mfg. Co., De Pere, Wis.
 Enterprise Boiler Co., Youngstown, O.
 Gem City Boiler Co., Dayton, O.
 Girard Boiler & Mfg. Co., Girard, O.
GRAVER, WM. TANK WORKS, East Chicago, Ind. (See adv. index, end of book)
 Hammond Iron Works, Warren, Pa.
KOVEN L. O. & BRO., 50 Cliff, New York. (See adv. below)

L. O. KOVEN & BROTHER

Manufacturers of

Plate Steel and Sheet Iron Work of Every Description

FOR SHIPS, MILLS, MINES, FACTORIES, PLANTATIONS, CHEMICAL WORKS, ABATTOIRS, FERTILIZER PLANTS, WATER WORKS, GOVERNMENT WORK, SEWAGE SYSTEMS, ETC. DESIGNERS OF SPECIAL APPARATUS FOR MANUFACTURING INDUSTRIES. NOTICE—WE SOLICIT ORDERS FOR GALVANIZING.

Office and Warerooms: 50 CLIFF ST., N. Y.

Works: JERSEY CITY, N. J.

Lacy Mfg. Co. (of any Description), Los Angeles, Cal.
 Lappan, Jas. Mfg. Co., 20th & Pike, Pittsburgh, Pa.
 McNeil, Jas. & Bro. Co., Pittsburgh, Pa.
 Meehan Boiler & Construction Co., Lowellville, O.
 Michelmann Steel Construction Co., Quincy, Ill.
 Muuroe, R. & Sons Corp'n, 23d & Smallman, Pittsburgh, Pa.
 Niles Boiler Co., Niles, O.
 Novelty Steam Boiler Works (Tripplett & Jennings, Prop.s), 917 S Howard, Baltimore, Md.

Odium-Taylor Boiler Co., Memphis, Tenn.
 Oswego Boiler & Engine Co., Oswego, N. Y.
 Pennsylvania Engineering Works, New Castle, Pa.

PETROLEUM IRON WORKS CO., Washington, Pa. (See adv. index & branch offices, end of book)

Petty, J. K. & Co. (Lebanon Boiler Works), 206 N 4th, Phila., Pa. Works: Lebanon, Pa.

Pollock, Wm. B. Co., Youngstown, O.

Porter Foundry & Machine Co., Allegheny, Pa.
REEVES BROS. CO. (Heavy & Light), Alliance, O. (See adv. index, end of book)

Riter-Conley Mfg. Co., Pittsburgh, Pa., & 111 B'way, New York

Ruemmel-Dawley Mfg. Co., St. Louis, Mo.

SCAIFE, WM. B. & SONS CO., Pittsburg, Pa. (See adv. index, end of book)

Struthers-Wells Co., Warren, Pa.

Union Iron Works, Hoboken, N. J.

Variety Iron & Steel Works Co., Cleveland, O.

Warren City Boiler Works, Warren, O.

White, Robt. Engineering Works, ft. of Columbia, Brooklyn, N. Y.

Worthington, W. M. & Co., 143 Liberty, New York

Steel Plates & Heads (Sheared)

(See also Boiler Heads, Flanged.)

Allegheny Steel Co. (Sheared Steel Plates), Pittsburgh, Pa.

Crucible Steel Co. of America, Frick bldg, Pittsburgh, Pa.

Glasgow Iron Co., Pottstown, Pa., & 1502 Market, Phila., Pa.

La Belle Iron Works (Sheared Plates), Steubenville, O.

Lukens Iron & Steel Co., Coatesville, Pa.

Worth Bros. Co., Coatesville, Pa.

Steel Plates & Sheets

Coatesville Rolling Mill Co. (From 12 Birmingham Wire Gauge up to 1 1-2 & 2 inches Thick), Coatesville, Pa.

La Belle Iron Works (No. 16 & heavier by 16 in. wide and less), Steubenville, O.

Steel (Plow)

(See Steel, Agricultural)

*Steel (Powder Keg)

AMERICAN SHEET & TIN PLATE Co., Frick bldg, Pittsburgh, Pa. (See adv. index & branch offices, end of book)

Steel (Pressed)

Davis Pressed Steel Co., Wilmington, Del.

Pressed Steel Car Co., Pittsburgh, Pa.

STANDARD GAUGE STEEL CO., (Cold Pressed Finished Flats, Squares, Rounds, Angles, Channels & Special Shapes), Beaver Falls, Pa. (See adv. index, end of book)

Waynesburg Pressed Steel Co., Waynesburg, Pa.

WORCESTER PRESSED STEEL CO. (Bearings, Fittings & Specialties), Worcester, Mass. (See adv. index, end of book)

Steel Rails

(See Rails, Steel)

Steel (Range Boiler)

AMERICAN SHEET & TIN PLATE Co., Frick bldg, Pittsburgh, Pa. (See adv. index & branch offices, end of book)

Empire Iron & Steel Co., Niles, O.

Wood, Alan Iron & Steel Co., 519 Arch, Philadelphia, Pa.

Steel Riveted Pipe

(See Pipe, Steel Riveted)

Steel Roofing

(See Roofing & Siding, Iron & Steel)

Steel Screw Stock

Columbia Bridge Co., Park bldg, Pittsburgh, Pa.
FREVERT MACHINERY CO. (Mrs. Agts.), 18 Dey, New York. (See adv. index, end of book)

UNION DRAWN STEEL CO. (Cold Drawn), Beaver Falls, Pa., & 460 Washington, New York

Steel (Self-Hardening)

Allen, Edgar & Co. (Ltd.), 51 John, N. Y. Works, Sheffield, Eng.

Baldwin Steel Co., 133 Reade, New York

Columbian Steel Co., Chicago Heights, Ill.

Crucible Steel Co. of America, Pittsburgh, Pa., & 71 B'way, New York

Denman & Davis, 85-Lafayette, New York

Firth-Sterling Steel Co., Pittsburgh, Pa. (Wheelock, Lovejoy & Co., Selling Agents, 23 Cliff, New York)

Frasse, Peter & Co., 94 Fulton, New York

Hobson, Houghton & Co. (Ltd.), ("Soho"), 98 John, New York; Works, Sheffield, Eng.

Houghton & Richards, 150 Oliver, Boston, Mass.

Illingsworth, Jno., Steel Co., 25 Cliff, N. Y.

Jessop, Wm. & Sons (Imported), 91 John, New York. Works: Sheffield, Eng.

Jones, B. M. & Co., 141 Milk, Boston, Mass.

McInnes Steel Co. (Air Hardening, etc.), Corry, Pa.

Vulcan Crucible Steel Co., Aliquippa, Pa., & Pittsburgh, Pa.

Steel Shafting

(See Shafting, Various Kinds.)

Steel Sheet

(See Iron & Steel Sheet.)

Steel Sheet Bars

La Belle Iron Works, Steubenville, O.

United Steel Co., Canton, O.

Wood, Alan Iron & Steel Co. (Basic Open Hearth), 519 Arch, Phila., Pa.

Steel Sheets (Aluminum Coated)

MERCHANT & EVANS CO. (Inc.), 517 Arch, Phila., Pa. (See adv. index & branch offices, end of book)

Steel & Iron Aluminum Coating Co., Connellsville, Pa.

Steel Sheets (Blue Annealed)

MERCHANT & EVANS CO. (Inc.), 517 Arch, Phila., Pa. (See adv. index & branch offices, end of book)

Taylor, N. & G. Co. (Open Hearth), Mariuer & Merchants bldg, Phila., Pa., & 1123 B'way, New York

Steel Sheets (Bow Socket)

AMERICAN SHEET & TIN PLATE Co., Frick bldg, Pittsburgh, Pa. (See adv. index & branch offices, end of book)

Empire Iron & Steel Co., Niles, O.

Steel Sheets (Buggy Bow)

AMERICAN SHEET & TIN PLATE Co., Frick bldg, Pittsburgh, Pa. (See adv. index & branch offices, end of book)

Empire Iron & Steel Co., Niles, O.

Wood, Alan Co., 519 Arch, Phila., Pa.

*Steel Sheets (Cylinder & Tank)

KOVEN, L. O. & BRO., 50 Cliff, New York. (See adv. on preceding page)

PRESSED STEEL TANK CO., Milwaukee, Wis. (See adv. index, end of book)

*Steel Sheets for Expanded Metal & Fire-Proofing

AMERICAN SHEET & TIN PLATE Co., Frick bldg, Pittsburgh, Pa. (See adv. index & branch offices, end of book)

*Steel Sheets for Gas Stoves, Etc.

AMERICAN SHEET & TIN PLATE Co., Frick bldg, Pittsburgh, Pa. (See adv. index & branch offices, end of book)

*Steel Sheets for Metallic Furniture

AMERICAN SHEET & TIN PLATE Co., Frick bldg, Pittsburgh, Pa. (See adv. index & branch offices, end of book)

Steel Sheets for Shovels, Saws, Hoes, Springs, Etc.

AMERICAN SHEET & TIN PLATE Co., Frick bldg, Pittsburgh, Pa. (See adv. index & branch offices, end of book)

Rowland, Wm. & Harvey, Frankford, Phila., Pa.

Wheeling Steel & Iron Co., Wheeling, W. Va.

*Steel Sheets for Show Cards

AMERICAN SHEET & TIN PLATE Co., Frick bldg, Pittsburgh, Pa. (See adv. index & branch offices, end of book)

Steel Sheets for Stamped Ware

AMERICAN SHEET & TIN PLATE Co., Frick bldg, Pittsburgh, Pa. (See adv. index & branch offices, end of book)

Taylor, N. & G. Co. (Open Hearth), Mariner & Merchants bldg, Phila., Pa., & 1123 B'way, New York

Steel Sheets (Galvanized)

(See Iron & Steel Sheet, Galvanized.)

Steel Sheets (Planished & Polished)

AMERICAN SHEET & TIN PLATE Co. ("Wood's" Planished & "Wellsville" Polished), Frick bldg, Pittsburgh, Pa. (See adv. index & branch offices, end of book)

Columbia Steel Works, Elyria, O.

Ward-Dickey Steel Co. (Hammered Planished Open Hearth, 18 to 28 Gauge), Indiana Harbor, Ind.

Wood, Alan Iron & Steel Co., 519 Arch, Phila., Pa.

Steel Shovel Plate

La Belle Iron Works, Steubenville, O.

Steel Shutters

(See Shutters, Steel.)

Steel Skelp

(See also Iron & Steel Skelp.)

Steel (Soft)

Sweet's Steel Co., Williamsport, Pa.

Steel (Spring)

American Tube & Stamping Co., Bridgeport, Conn.

AMERICAN STEEL & WIRE CO., The Rookery, Chicago, Ill. (See adv. index & branch offices, end of book)

Braeburn Steel Co., Braeburn, Pa.

Cambria Steel Co., Arcade bldg, Phila., Pa.

Carnegie Steel Co., Pittsburgh, Pa.

Colonial Steel Co. (Open Hearth), Pittsburgh, Pa.

Columbia Steel Works (Cold Rolled), Elyria, O.

Crucible Steel Co. of America, Frick bldg. Pittsburgh, Pa.
 Harrow Spring Co. (Milled Bars & Rods), Kalamazoo, Mich.
 Midvale Steel Co., Nicetown, Phila., Pa.
 Newman, C., Wire Co., 143 Liberty, N. Y.
 Penna. Steel Co., Girard bldg, Phila., Pa.
 Railway Steel Spring Co., 71 B'way, New York
 Sweet's Steel Co., Williamsport, Pa.

Steel Stacks

(See Smoke Stacks, Steel; also Chimneys, Steel)

Steel Structural Dealers

American Forge & Iron Co., 140 W 42d, New York
 Anderson Bridge & Scraper Co., Anderson, Ind.
 Austin & Doten, 102 North, Boston, Mass.
 Bacon & Co., 107 Oliver, Boston, Mass.
 Baily, R. M. & Co., Arcade bldg, Phila., Pa.
 Bartholomew, H., Phoenixville, Pa.
 Bassett-Presley Co., Western Reserve bldg, Cleveland, O.
 Belmont Iron Works, 22d & Wash'n av, Phila., Pa.
 Bierce, Wm. W. (Ltd.), Hennen bldg, New Orleans, La.
 Blodgett & Clapp Co., 49 Market, Hartford, Conn.
 Bourne-Fuller Co., Hickok bldg, Cleveland, O.
 Cincinnati Iron Store Co., Front & Freeman av, Cincinnati, O.
 Coe-Faitoute Co., Newark, N. J.
 Corlett, J. F. & Co., Rockefeller bldg, Cleveland, O.
 De Cou, Richard, 12th & Noble, Phila., Pa.
 Eichley, John, Jr., Co., 21st & Wharton, Pittsburgh, Pa.
 Ford, Arthur W. Co., 176 Federal, Boston, Mass.

FOREST CITY STEEL & IRON CO.,

Cleveland, O. (See adv. index, end of book)

Globe Rolling Mill Co., Front & Smith, Cincinnati, O.

HALSTED, JOS. CO., 388 W Randolph, Chicago, Ill. (See adv. index, end of book)

Harrington, Robinson & Co., 272 Franklin, Boston, Mass.

Hathaway, A. G. & Co., Cuyahoga bldg, Cleveland, O.

Hawkins, F. B. Co., 66 Fulton, Long Island City, N. Y.

Herzog Iron Works, St. Paul, Minn.

Hitner's, Henry A., Sons Co., Pennsylvania bldg

Hoffman, R. C. & Co., Continental Trust bldg, Baltimore, Md.

Hofus, W. D. & Co. (Iron, Steel, Locomotive, etc.), Seattle, Wash.

Houston, C. B. & Co., Girard bldg, Phila., Pa.

Houdlette, Fred. A. & Son, 93 Broad, Boston, Mass.

Judson Mfg. Co., San Francisco, Cal.

Klemp, Wm. F. & Co., 138 Washington, Chicago, Ill.

Lindsay, James G. & Co., Arcade bldg, Phila., Pa.

Lockwood Arthur J., 12 Platt, New York

Mesker, Geo. L. Co., Evansville, Ind.

MINNEAPOLIS STEEL & MACHINERY Co., Minneapolis, Minn. (See adv. index & branch offices, end of book)

Moffat, F. D. & Co., 81 Fulton, New York

Moore, Edgar & Co., Farmers' Bank bldg, Pittsburgh, Pa.

Morris, Wheeler & Co., 1608 Market, Phila., Pa.

Newkirk, John B. & Co., 1502 Market, Phila., Pa.

Ogden & Wallace, 577 Greenwich, New York

Piling & Crane, Girard bldg, Phila., Pa., & Farmers' Bank bldg, Pittsburgh, Pa.

READING CRANE & HOIST WORKS, Reading, Pa. (See adv. index, end of book)

RIESECK, P. (All Kinds, from Stock), Allegheny & Rebecca, Allegheny, Pa. (See adv. index, end of book)

Ring, Chas. E. & Co., 38 S 8th, Brooklyn, N. Y.

RUSSEL WHEEL & FOUNDRY CO., Detroit, Mich. (See adv. index, end of book)

Ryerson, Jos. T. & Son (Ltd.), (Steel), 18 Milwaukee, Chicago, Ill.

Scully Steel & Iron Co., 138 Fulton, Chicago, Ill.

Southern Foundry Co. (Beams Cut & Punched), Owensboro, Ky.

Spencer, Geo. G., 2 Sherman, Chicago, Ill.

Speddy, T. H., 23 Davis, San Francisco, Cal.

Thomson, W. H. & Co., Land Title bldg, Phila., Pa.

TUOHY BROS. CO. (I Beams, Channels, Angles, etc.), 95 Liberty, New York. (See adv. index, end of book)

UNION FOUNDRY WORKS, First National Bank bldg, Chicago, Ill. (See adv. index, end of book)

Walcott Supply Co., 527 N 2d, St. Louis, Mo.

WORDEN-ALLEN CO., P. O. Box 528, Milwaukee, Wis. (See adv. index & branch offices, end of book)

528, Milwaukee, Wis. (See adv. index & branch offices, end of book)

528, Milwaukee, Wis. (See adv. index & branch offices, end of book)

528, Milwaukee, Wis. (See adv. index & branch offices, end of book)

528, Milwaukee, Wis. (See adv. index & branch offices, end of book)

528, Milwaukee, Wis. (See adv. index & branch offices, end of book)

528, Milwaukee, Wis. (See adv. index & branch offices, end of book)

528, Milwaukee, Wis. (See adv. index & branch offices, end of book)

528, Milwaukee, Wis. (See adv. index & branch offices, end of book)

528, Milwaukee, Wis. (See adv. index & branch offices, end of book)

528, Milwaukee, Wis. (See adv. index & branch offices, end of book)

528, Milwaukee, Wis. (See adv. index & branch offices, end of book)

528, Milwaukee, Wis. (See adv. index & branch offices, end of book)

528, Milwaukee, Wis. (See adv. index & branch offices, end of book)

528, Milwaukee, Wis. (See adv. index & branch offices, end of book)

528, Milwaukee, Wis. (See adv. index & branch offices, end of book)

528, Milwaukee, Wis. (See adv. index & branch offices, end of book)

528, Milwaukee, Wis. (See adv. index & branch offices, end of book)

528, Milwaukee, Wis. (See adv. index & branch offices, end of book)

528, Milwaukee, Wis. (See adv. index & branch offices, end of book)

528, Milwaukee, Wis. (See adv. index & branch offices, end of book)

528, Milwaukee, Wis. (See adv. index & branch offices, end of book)

528, Milwaukee, Wis. (See adv. index & branch offices, end of book)

528, Milwaukee, Wis. (See adv. index & branch offices, end of book)

528, Milwaukee, Wis. (See adv. index & branch offices, end of book)

528, Milwaukee, Wis. (See adv. index & branch offices, end of book)

528, Milwaukee, Wis. (See adv. index & branch offices, end of book)

528, Milwaukee, Wis. (See adv. index & branch offices, end of book)

528, Milwaukee, Wis. (See adv. index & branch offices, end of book)

528, Milwaukee, Wis. (See adv. index & branch offices, end of book)

528, Milwaukee, Wis. (See adv. index & branch offices, end of book)

528, Milwaukee, Wis. (See adv. index & branch offices, end of book)

528, Milwaukee, Wis. (See adv. index & branch offices, end of book)

528, Milwaukee, Wis. (See adv. index & branch offices, end of book)

528, Milwaukee, Wis. (See adv. index & branch offices, end of book)

528, Milwaukee, Wis. (See adv. index & branch offices, end of book)

528, Milwaukee, Wis. (See adv. index & branch offices, end of book)

528, Milwaukee, Wis. (See adv. index & branch offices, end of book)

528, Milwaukee, Wis. (See adv. index & branch offices, end of book)

528, Milwaukee, Wis. (See adv. index & branch offices, end of book)

528, Milwaukee, Wis. (See adv. index & branch offices, end of book)

528, Milwaukee, Wis. (See adv. index & branch offices, end of book)

528, Milwaukee, Wis. (See adv. index & branch offices, end of book)

528, Milwaukee, Wis. (See adv. index & branch offices, end of book)

528, Milwaukee, Wis. (See adv. index & branch offices, end of book)

528, Milwaukee, Wis. (See adv. index & branch offices, end of book)

528, Milwaukee, Wis. (See adv. index & branch offices, end of book)

528, Milwaukee, Wis. (See adv. index & branch offices, end of book)

528, Milwaukee, Wis. (See adv. index & branch offices, end of book)

528, Milwaukee, Wis. (See adv. index & branch offices, end of book)

528, Milwaukee, Wis. (See adv. index & branch offices, end of book)

528, Milwaukee, Wis. (See adv. index & branch offices, end of book)

528, Milwaukee, Wis. (See adv. index & branch offices, end of book)

528, Milwaukee, Wis. (See adv. index & branch offices, end of book)

528, Milwaukee, Wis. (See adv. index & branch offices, end of book)

528, Milwaukee, Wis. (See adv. index & branch offices, end of book)

528, Milwaukee, Wis. (See adv. index & branch offices, end of book)

528, Milwaukee, Wis. (See adv. index & branch offices, end of book)

528, Milwaukee, Wis. (See adv. index & branch offices, end of book)

528, Milwaukee, Wis. (See adv. index & branch offices, end of book)

528, Milwaukee, Wis. (See adv. index & branch offices, end of book)

DISTRICT OF COLUMBIA.

WASHINGTON—Barber & Ross, 618 11th N W
 Brown-Ketcham Iron Works, Colorado bldg
 Jorss, A. F., 315 13th, N W
 Schnelder, C. A. Sons, 212 12th, N W

FLORIDA.

JACKSONVILLE—Richardson, H. H. & Co.

GEORGIA.

ATLANTA—American Bridge Co.

Atlanta Machine Works

Atlanta Structural Steel Co.

Gude & Walker

*Virginia Bridge & Iron Co.

Wilkins, Grant

AUGUSTA—*Lombard Iron Works & Supply Co.

NEWNAN—*Cole, R. D. Mfg. Co.

ILLINOIS.

AURORA—*Love Bros. (Inc.).

CHICAGO—*American Bridge Co., Monadnock bldg

Bolter's, A. Sons, 84 La Salle

Brandes, Carl, 1033 Otto

Bryan, E. A. Co., First National Bank bldg

Carson, A. B. Construction Co., 1223 Seminary pl

*Chicago Bridge & Iron Works (Horace E. Horton, Prop.), Throop & W 105th

Dauchy Iron Works, 88 Illinois

Dearborn Foundry Co., 1525 Dearborn

Eastern Metal Works, Unity bldg

*Fisher, E. G. & Co., Fisher bldg

Fridstein Construction Co., Old Colony bldg

Globe Iron Works, 31 Indiana

HALSTED, JOSEPH, CO., 388 W Randolph. (See adv. index, end of book)

Hansell-Elcock Co., 251 23d pl

Heinemann, Louis, 819 Melrose

HICKEY, H. M. WIRE & IRON Works, 54 Dearborn

*Illinois Bridge Co., Fisher bldg

*Jackson & Corbett Bridge & Steel Works, The Rookery

*Jennet Bridge & Iron Works, 3541 Shields av

Kelly-Atkinson Construction Co., 188 Madison

*Kenwood Bridge Co., 1st Nat'l Bank bldg

Larson, O., 300 W Erie

MINNEAPOLIS STEEL & MACHINERY Co. (Cavanaugh-Darley Co., Rep.), 21-25 Plymouth ct. (See adv. index, end of book)

*Morava Construction Co., 85th & Stewart

*Page & Schnable, Security bldg

*Phoenix Bridge Co., The Rookery

Phoenix Iron Co., The Rookery

SMITH, F. P. WIRE & IRON WORKS, 100 Lake. (See adv. index, end of book)

Smeeth Co., Western av & W 22d

Standard Construction Co., 1st Nat'l Bank

Stebbins, W. L., Monadnock blk bldg

Steir, Herman Mfg. Co., 552 N Halsted

STEWART, JAS. & CO. (Mills & Railway Depots), Fisher bldg

*STROBEL STEEL CONSTRUCTION Co., Monadnock blk

*Toledo-Massillon Bridge Co., Monadnock blk

UNION FOUNDRY WORKS, First National Bank bldg. (See adv. index, end of book)

Variety Mfg. Co. (Light Work for Building), Sacramento & Carroll av

Vierling, McDowell & Co., 23d & Stewart

WORDEN-ALLEN CO., 184 La Salle. (See adv. index, end of book)

DECATUR—*Decatur Bridge Co.

EAST ST. LOUIS—National Iron Works

JACKSONVILLE—*Illinois Steel Bridge Co.

JOLIET—*Joliet Bridge & Iron Co.

PEORIA—*Lucas, A. & Sons

QUINCY—Central Iron Works

*Michelmann Boiler Co.

ROADHOUSE—*Eli Bridge Co.

SPRINGFIELD—*Springfield Bridge & Iron Co.

SULLIVAN—*Illinois Bridge & Iron Co.

INDIANA.

ANDERSON—*American Bridge & Scraper Co.

ATTICA—*Attica Bridge Co.

COLUMBUS—*Caldwell & Drake Iron Works

ELKHART—*Elkhart Bridge & Iron Co.

EVANSVILLE—Mesker, Geo. L. & Co.

FORT WAYNE—Kerr-Murray Mfg. Co. (Gas

Steel Structural Shapes (Mfrs.)

American Bridge Co., Pittsburgh, Pa.

Cambria Steel Co. (Steel), Arcade bldg, Phila., Pa. Works: Johnstown, Pa.

Carnegie Steel Co. (Steel Only), Carnegie bldg, Pittsburgh, Pa.

Colorado Fuel & Iron Co., Denver, Colo.

Eastern Steel Co., Pottsville, Pa.

Illinois Steel Co. (Steel), The Rookery, Chicago, Ill.

Inland Steel Co., First National Bank bldg, Chicago, Ill. Works: Chicago Heights, Ill., & Indian Harbor, Ind.

Jones & Laughlin Steel Co., Pittsburgh, Pa.

Lackawanna Steel Co., Buffalo, N. Y.

Milliken Bros. (Inc.), (I Beams, Channels, Angles, Z Bars, etc.), 11 B'way, New York

Passaic Steel Co., Paterson, N. J., & 5 Nassau, New York

Penna. Steel Co. (Steel), Girard bldg, Phila., Pa. Works: Steelton, Pa.

Phoenix Iron Co. (Steel Only), 410 Walnut, Phila., Pa. Works: Phoenixville, Pa.

Republic Iron & Steel Co., Frick bldg Annex, Pittsburgh, Pa.

Steel Structural Work

(Star (*) indicates firms who build Steel Bridges.)

ALABAMA.

BIRMINGHAM—*Southern Bridge Co.

MOBILE—*Bailey Iron Works

NEW DECATUR—North Alabama Engineering Co.

CALIFORNIA.

LOS ANGELES—Mercereau, J. D.

OAKLAND—*Burrell Construction Co.

*Cotton Bros. & Co.

SAN FRANCISCO—*Atlantic Gulf & Pacific

*American Bridge Co., Crocker bldg Co.

*Bay City Iron Works, 136 Main

Brode & Clark Iron Works, 621 Howard

California Artistic Metal & Wire Co., 539 Mission

*Dundon Bridge & Construction Co.

Dyer Bros., 360 2d

*Healy-Tibbitts & Co., 95 Market

Jackson, P. H. & Co., 228 1st

Judson Mfg. Co., Howard & Beale

MINNEAPOLIS STEEL & MACHINERY Co., 633 Monadnock bldg. (See adv. index, end of book)

Pacific Bridge Co., 4 California

*San Francisco Bridge Co., 220 Market

*Thomson Bridge Co., 129 Mission

Western Iron Works, 123 Beale

COLORADO.

FRANKFORT—*Ross, John A. House, etc.)
 INDIANAPOLIS—*Brown & Ketcham Iron Works (Bridges, Buildings & Viaducts), 2549 W Michigan
 *Central States Bridge Co.
 *Indianapolis Bridge & Iron Works, S W Insley Iron Works
 Noelke-Richards Iron Works, 180 E Palmer
 Parkhurst Mfg. Co., 218 Kentucky av
 LAFAYETTE—*American Bridge Co.
 *Lafayette Engineering Co.
 Wallace Machine & Foundry Co. (Also Castings)
 MUNCIE—*Indiana Bridge Co.
 NEW CASTLE—*Pan-American Bridge Co.
 SOUTH BEND—Folson, C. G.
 South Bend Foundry Co.
 TERRE HAUTE—*Parker, Thatcher
 *VINCENNES—*Vincennes Bridge Co.
 WINAMAC—*Winamac Bridge Co.

IOWA.

CEDAR RAPIDS—Carmody, J. T.
 CLINTON—*Clinton Bridge & Iron Works
 COUNCIL BLUFFS—*Wise, G. C.
 DAVENPORT—Davenport Foundry & Machine Co.
 DES MOINES—*Des Moines Bridge & Iron Co.
 *Des Moines Mfg. & Supply Co., 101 E Iowa Bridge Co., Crocker bldg Court av
 *King, G. E. Bridge Co., Equitable bldg
 Magden & Sheeley, Clapp blk
 *Marsh Bridge Co., Equitable bldg
 *Stark, N. M. & Co., Crocker bldg
 DUBUQUE—Dubuque Boat & Boiler Works
 Voggenthaler, E. J. Co.
 KEOKUK—*Diver, Jas. B. Bridge Co.
 MARSHALLTOWN—Shorthill, A. E. Co.
 MUSCATINE—Niver Iron Works Co.
 OSKALOOSA—*Seever's Mfg. Co.
 OTTUMWA—*Fair-Williams Bridge & Mfg. Co.

KANSAS.

LEAVENWORTH—*Missouri Valley Bridge & Iron Co.
 TOPEKA—Capitol Iron Works Co.
 *Topeka Bridge & Iron Co.
 WICHITA—Wichita Construction Co.

KENTUCKY.

LOUISVILLE—Grainger & Co. (Inc.).
 *Louisville Bridge & Iron Co.
 National Foundry & Machine Co.
 *Snead Architectural Iron Works.

LOUISIANA.

NEW ORLEANS—*American Bridge Co., Hennen bldg
 Bedell Structural Steel & Foundry Co., Magnolia, Erato & Clase
 *Bierce, Wm. W. (Ltd.), Hennen bldg
 MINNEAPOLIS STEEL & MACHINERY Co., 417 Hennen bldg. (See adv. index, end of book)
 STEWART, JAS. & CO. (Mills & Railway Depots), Hibernia Bank bldg
 Sutton's Foundry & Structural Steel Works, 714 Magazine

MAINE.

BANGOR—Union Iron Works
 PORTLAND—Fletcher & Crowell Co.
 Megquier & Jones Co.

MARYLAND.

BALTIMORE—*American Bridge Co., Continental Trust bldg
 Armstrong & Parker, 361 North
 Baltimore Foundry Co.
 *Baltimore Bridge Co., Bush & Wiconico
 *Bartlett, Hayward & Co., Continental bldg
 Chesapeake Iron Works
 Dietrich Bros., 344 North
 *Lauer & Harper Co. (Inc.), Westport
 Phoenix Iron Co., Continental bldg

MASSACHUSETTS.

BOSTON—*American Bridge Co., 89 State
 *Berlin Construction Co., 131 State
 *Boston Bridge Works, 47 Winter
 Brown-Ketcham Iron Works (Bridges, Buildings & Viaducts), 166 Devonshire
 *Canton Bridge Co., 147 Milk
 Chelmsford Foundry Co., 159 Devonshire
 Eastman, Pease & Co., 12 Pearl
 Ford, Arthur W. Co., 176 Federal
 Ham, L. M. & Co., 152 Portland
 Harrington, Robinson & Co., 272 Franklin
 *New England Structural Co., 110 State
 *Penna. Steel Co., 70 Kilby
 *Smith, G. W. & F. Iron Co., Gerard & Island. Rox.

Smith & Lovett Co., 125 Albany
 EVERETT—*New England Structural Co.
 SPRINGFIELD—*Hawkins, R. F. Iron Works
 *Springfield Construction Co.
 Springfield Foundry Co.
 Springfield Iron Works
 *Walsh Boiler & Iron Works
 WORCESTER—*Eastern Bridge & Structural Co.

MICHIGAN.

DETROIT—*American Bridge Co.
 *Griffin, M. J., 104 Lafferty pl
 Lewis, Henry B., 45 Jos. Campau av
 Rohns, Albert & Co., 193 Cass
 RUSSELL WHEEL & FOUNDRY CO.
 (See adv. index, end of book)
 *Whitehead & Kales Iron Works, Beecher av & M. C. R. R.
 GRAND RAPIDS—*Grand Rapids Bridge Co., Pythian Temple
 KALAMAZOO—Kalamazoo Foundry & Machine Co.
 LANSING—Jarvis Engine & Machine Works
 PORT HURON—*Huron Bridge & Iron Co.
 *Jenks & Dresser

MINNESOTA.

ALBERT LEA—Vennes, J. W.
 MINNEAPOLIS—*American Bridge Co.
 Crown Iron Works Co., 113 2d av N. E.
 *Hewett Bridge Co.
 *Hewett, W. S. & Co.
 *MINNEAPOLIS STEEL & MACHINERY Co. (See adv. index, end of book)
 Northwestern Foundry (Inc.)
 MOORHEAD—*Northwestern Bridge Co.
 ST. PAUL—*Herzog Iron Works
 *ST. PAUL FOUNDRY CO., Como av & Topping. (See adv. below)

MISSOURI.

CAMERON—Dildine Bridge & Construction Co.
 JOPLIN—Bartlett Steel Co.
 *Southern Bridge Co.
 KANSAS CITY—*American Bridge Co., Postal
 *Blodgett, A. M., Thayer bldg Tel bldg
 Bolter's, A. Sons, Postal Tel bldg
 Griffin, Geo. H. Construction Co., New Nelson bldg
 *Hoover, J. W., N. Y. Life bldg
 *Interstate Bridge Co., Williamson blk
 *Kansas City Bridge Co.
 Kansas City Wire & Iron Works, 1428 Oak
 *Midland Bridge Co., Gibraltar bldg
 MINNEAPOLIS STEEL & MACHINERY Co., 1302 W 11th. (See adv. index, end of book)
 Winsborough Bros.
 ST. LOUIS—Abbott-Gamble Constructing Co., 620 Chestnut
 *American Bridge Co., Chemical bldg
 *Banner Iron Works, Koken bldg
 Booneville Railroad Bridge Co., 105 N 7th
 Brown-Ketcham Iron Works, 816 Olive
 Central Bridge Co., 706 Chestnut
 Christopher & Simpson Architectural Iron & Foundry Co., 811 Park av
 Garrett, John T., 715 Locust
 Geisel Construction Co., 715 Locust st
 Griffiths Iron Works Co., 811 N 10th

Koken Iron Works, Old Manchester rd, nr Mesker & Bro., 421 S 6th Chouteau av
 *Missouri Bridge & Iron Co., Koken bldg
 *St. Louis Bridge & Iron Co., 210 Olive
 *STEWART, JAS. & CO. (Mills & Railway Depots), Lincoln Trust bldg
 *Stupp Bros. Bridge & Iron Co., 906 Olive
 Union Iron & Foundry Co., 1452 S 2d
 Victor Iron Works, 2417 S 7th

MONTANA.

BUTTE—American Bridge Co.

NEBRASKA.

LINCOLN—*Canton Bridge Co.
 *MINNEAPOLIS STEEL & MACHINERY Co., 1212 Harney. (See adv. index, end of book)
 *Smith, R. L. Machine Works
 *Towle, J. W.
 Westover, J.
 OMAHA—*Standard Bridge Co.

NEW JERSEY.

CAMDEN—*Lancaster Machine & Structural Works
 ELIZABETH—*New Jersey Dock & Bridge Building Co.
 JERSEY CITY—Biel, Norton & Co., 63 Hudson
 Hamill, Alex., 426 Montgomery
 Jonson's, Julius, Sons, 63 Hudson
 SNEAD & CO. IRON WORKS, ft. of Pine. (See adv. index, end of book)
 NEWARK—Goeller Iron Works
 Hay Foundry & Iron Works, 9 Plumb Point la
 Hedden Iron Construction Co., 20 Clinton
 PASSAIC—*Union Building & Construction Co.
 PATERSON—*Bogert-Carlough Co.
 *Passaic Steel Co.
 PHILLIPSBURG—*Tippet & Wood
 TRENTON—*American Bridge Co.

NEW YORK.

ALBANY—*Canton Bridge Co.
 McKinney, J. & Son
 BUFFALO—*American Bridge Co.
 *Buffalo Structural Steel Co., 166 Dart
 *Empire Bridge Co., Bailey av, nr Seneca
 Ernst's, Chas. F. Sons' Iron Works, 65
 Ginther's, J. Sons, 417 B'way Lathrop
 Harrower, H. C., 35 Court
 Kellogg Iron Works, Mutual Life bldg
 Walls & Kerney, 300 Jefferson
 Wurtz & Son, 23 Lloyd
 ELMIRA—American Bridge Co.
 FRANKFORT—*Acme Road Machinery Co.
 NEWBURGH—Newburgh Bridge Works

NEW YORK CITY.

Borough of Brooklyn.

BROOKLYN—Child, W. C. W., 355 Kingsland
 Clarke & Stowe, 232 Kent av
 Eagle Iron Works, 852 De Kalb av
 Empire Bridge Co., Clay & Provost
 Hecla Iron Works, 118 N 11th
 Whale Creek Iron Works, Calyer near
 Whale Creek Canal

Boroughs of Manhattan & Bronx

NEW YORK—*American Bridge Co., 42 B'way
 *American Structural Steel Co. (of Pittsburgh, Pa.), 1183 B'way
 *Atlantic Gulf & Pacific Co., Park Row bldg
 Bartlett, Hayward & Co., 100 B'way
 Belmont Iron Works, 26 Cortlandt
 *Berlin Construction Co., 220 B'way
 *Brown-Ketcham Iron Works (Bridges, Buildings & Viaducts), 1007 Johnson bldg,
 Child, W. C. W., 1 Madison av 28th

ST. PAUL FOUNDRY COMPANY,

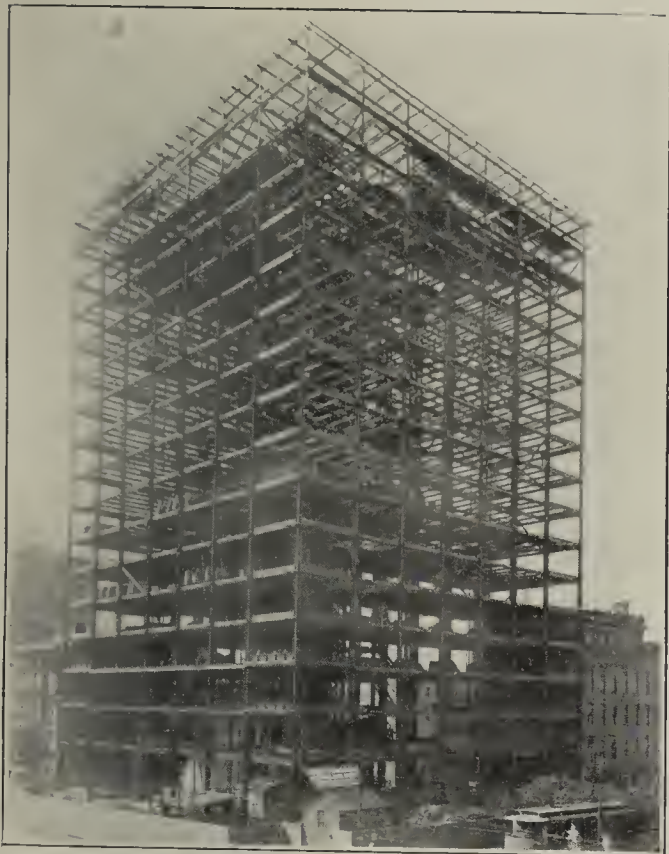
DESIGNERS AND
BUILDERS OF

STEEL STRUCTURES,

Bridges, Mill Buildings, Towers, Tanks, Columns, Trusses, Girders, Beams,
 Architectural Cast Iron, Ornamental Iron.

Office and Works, COMO AVE. AND TOPPING ST.

ST. PAUL, MINN.



ROCKEFELLER BUILDING, CLEVELAND.

The Forest City Steel and Iron Company

STEEL BUILDINGS
STEEL BRIDGES
ORNAMENTAL IRON
WIRE GRILLE WORK
STRUCTURAL RIVETS

QUICK DELIVERIES FROM
STRUCTURAL STEEL IN STOCK

The Forest City Steel & Iron Co.
CLEVELAND, OHIO.

STEEL CONSTRUCTION.

Mill Buildings, Trestles, Tipples, Etc.

DESIGNED, MANUFACTURED AND ERECTED IN ALL PARTS OF THE WORLD.

Always in Stock
**STRUCTURAL
MATERIALS**

Prompt Shipments.



**GIRDERS,
TRUSSES,
COLUMNS.**

SHEET AND PLATE STEEL WORK.

Riveted Steel Pipe, Smoke Stacks, Tanks. Galvanized Range Boilers, Air Reservoirs, Corrugated
Iron and Steel Sheets.

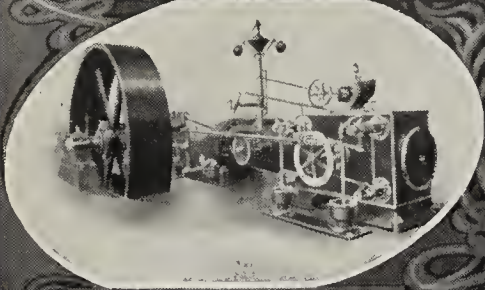
WILLIAM B. SCAIFE & SONS CO., (Founded 1802), **PITTSBURGH, PA.**



AMPHITHEATER MINNESOTA



UTAH COPPER CO.



STANDARD HEAVY DUTY
TWIN CITY CORLISS



EXECUTIVE OFFICE & WORKS



MUNZEL SUCTION GAS PLANT

THE PICTURES shown above need no commentary, they tell their own story clearly. The two illustrations in the upper left and right hand corners show "WHAT WE DO" in Architectural and Structural Iron Work and in Steel Skeleton Buildings for mining and manufacturing purposes. The two lower left and right hand illustrations show the well known Twin City Corliss Engine and the Munzel Gas Engine and Suction Gas Producer. The central illustration gives a good idea of our plant which covers 18 acres of ground.

We issue illustrated catalogues describing our manufacturing products that we will be pleased to mail YOU.

MINNEAPOLIS STEEL AND MACHINERY COMPANY

Twenty-ninth Street and Minnehaha Avenue

MINNEAPOLIS, MINNESOTA

The Donovan Wire and Iron Company

DESIGN, FURNISH AND ERECT STEEL BUILDINGS

A LARGE ASSORTMENT OF STRUCTURAL
SHAPES CARRIED IN STOCK

Chicago St. and W. & L. E. Ry. TOLEDO, OHIO

Crestmoor Construction Co., 36 Liberty st.
 *Cooper Iron Works (Jno. Cooper, Prop.),
 1 Madison av.
 Cornell, J. B. & J. M. Co., 26th & 11th av
 *Dean, Schwiers & Sutton Co., 136 Liberty
 *Empire Bridge Co., 42 B'way
 Empire Eng. Corporation, 111 B'way
 *Fort Pitt Bridge Works, 45 B'way.
 Works, Canonsburg, Pa.
 General Supply & Construction Co., 24
 State
 Hay Foundry & Iron Works, 141 B'way
 *Hinkle Iron Co., 534 W 56th
 Hood, R. H. Co., 299 B'way
 *Illinois Bridge Co., 503 5th av.
 Just, Geo. A. Co., 452 5th av.
 *King Bridge Co., 277 B'way
 Lawler, Hugh J., Park av & 132d
 *Levering & Garigues (Engineers & Con-
 tractors), 552 W 23d
 Lewinson & Co. (Engineers & Contractors),
 128 W 42d
 *McClintic-Marshall Construction Co., 15
 Park row. Works: Pottstown, Pa.
 *Metropolitan Bridge & Construction Co.,
 Cortlandt
 Miller, S. Flsher, 29 B'way, New York,
 N. Y.
 *Milliken Bros. (Inc.), 11 B'way
 Murray Hill Iron Works Co., 214 E 37th
 Murray & Moore, 136 Liberty
 *National Bridge Works, 1123 B'way
 *Newburgh Bridge Works (Newburgh, N.
 Y.), 106 E. 23d
 *New Jersey Bridge Co., Flatiron bldg
 Norton, Alfred E. Co., 415 E 23d
 *Passaic Steel Co., 5 Nassau. Works, Pat-
 erson, N. J.
 *Penna. Steel Co., 71 B'way.
 *Phoenix Bridge Co., 45 William
 Pierson & Co., 29 B'way
 Post & McCord (Inc.), 44 E 23d
 *Prince Iron Works, 555 W 33d
 *Rlter-Conley Mfg. Co., 111 B'way
 *Riverside Bridge Co., 314 Madison av
 *San Francisco Bridge Co., 19 Park row
 Schreiber, L. & Sons Co., 1133 B'way
 *Snare & Triest Co., 143 Liberty
 STEWART, JAS. & CO. (Mills & Rail-
 way Depots), North American Trust bldg
 Storm, Walter H. & Co., 39 Cortlandt

*TERRY & TENCH CO., 131st & Lex.
 av. (See adv. index, end of book)
 Wills & Marvin, 1170 B'way, New York

Borough of Queens.

LONG ISLAND CITY—Hawkins Iron Con-
 struction Co., 66 Fulton av
 Just, Geo. A. Co., 239 Vernon av
 MASPETH—Richey, Browne & Donald.

(END OF NEW YORK CITY)

OWEGO—*Owego Bridge Co.
 I'AINTE POST—*Lane Bridge Co.
 ROCHESTER—Heughes, F. L. & Co., 190
 South av
 *Rochester Bridge & Construction Co.
 SYRACUSE—*Archbold-Brady Co.
 *Syracuse Bridge Co.
 TROY—Mahony Mfg. Co.
 West Side Structural Co., Watervliet.

NORTH CAROLINA.

BURLINGTON—*Carolina Steel Bridge & Con-
 struction Co.

NORTH DAKOTA.

FARGO—*Fargo Bridge & Iron Co.

OHIO.

AKRON—*Burger Iron Co.
 Wellman-Seaver-Morgan Co. (Steel Build-
 ings)
 ALLIANCE—REEVES BROS. CO. (Steel
 Buildings, Foundries & Factories). (See
 adv. index, end of book)
 EEDFORD—*Interstate Engineering Co.
 BELLEFONTAINE—*Bellefontaine Bridge &
 CANTON—*American Bridge Co. Iron Co.
 *Canton Bridge Co., Atlas Bank bldg
 CANTON FOUNDRY & MACHINE CO.
 (See adv. index, end of book)
 CINCINNATI—*American Bridge Co., Union
 Trust bldg
 *Brackett Bridge Co., 518 Walnut
 Bredenford Erecting Co., Spring Grove
 av. & Monmouth
 Columbia Iron Works, 723 Reading rd
 Potthoff, W. F. Co., Front & Harriet
 Rowekamp Bros., 935 Livingston
 Schreiber, L. & Sons Co., 8th & Eggleston
 *Stacey Mfg. Co., 239 Mill av
 Ward, W. E. & Co., 1347 Central av
 CLEVELAND—*American Bridge Co., Rocke-
 feller bldg
 BROOKS, T. H. & CO (See adv. index,
 end of book)
 Cleveland Sheet & Structural Co., 53 Gor-
 don av
 *Cowing Engineering Co., Citizens bldg
 *FOREST CITY STEEL & IRON CO.,
 110th nr Detroit av. (See adv. index,
 end of book)
 Kaltenbach & Griess, Williamson bldg
 Merrell, Geo. B., Chamber of Commerce
 bldg
 Ohio Machine & Boiler Co., 108 River
 *King Bridge Co., St. Clair & Ruskin
 Republic Construction Co.
 Stevens, W. A. & Co., New England bldg
 *Van Dorn Iron Works Co., 2685 E. 79th
 Variety Iron & Steel Works Co., Case av
 c Hamilton
 Wellman-Seaver-Morgan Co. (Steel Build-
 ings)
 COLUMBUS—*American Bridge Co.
 Columbus Structural Steel Co.
 Morse, C. E. Co.
 Morris, C. E. Co., Curtis & Jefferson aves
 *Mt. Vernon Bridge Works, The Yandotte
 National Engineering Co.
 FINDLAY—Adams Bros. Co.
 GIRARD—Girard Boiler & Mfg. Co.
 HAMILTON—Meyers, Fred J. Mfg. Co.
 KENTON—CHAMPION IRON CO. (See
 adv. below)
 LEBANON—*Oregonia Bridge Co.
 LOWELLVILLE—Meehan Boiler & Construc-
 tion Co.
 MANSFIELD—Schnitzer, F. F. & Son
 MASSILLON—*Massillon Bridge Co.
 MOUNT VERNON—*Mt. Vernon Bridge Co.
 NILES—Niles Boiler Co.
 SANDUSKY—OHIO STRUCTURAL IRON
 Co. (Light) (See adv. index, end of book)
 SPRINGFIELD—*Bayley, Wm. Co.

THE CHAMPION IRON CO.,

KENTON, OHIO.

MANUFACTURERS OF

STRUCTURAL IRON,
 ORNAMENTAL IRON,
 IRON & STEEL CELL WORK.

IRON FENCES AND IRON RAILINGS.

STEEL FIRE PROOF WINDOWS AND DOORS.

SEND FOR ILLUSTRATED CATALOGUE.

TOLEDO—*American Bridge Co.
 *Toledo—Massillon Bridge Co.
 Toledo Wire & Iron Wks., Toledo, O.
DONOVAN WIRE & IRON CO. (See
 adv. index, end of book)
 Globe Boiler Works
 WELLSVILLE—Carroll—Porter Boiler & Tank
 Co.
 WILMINGTON—*Champion Bridge Co.
 YOUNGSTOWN—*American Bridge Co.
 Enterprise Boiler Co.
 Pollock, W. B. Co.
 Youngstown Wire & Iron Co.

OREGON.

PORTLAND—Columbia Engineering Works
 *Pacific Bridge Co.
 *Phoenix Iron Works, Hawthorne av c
 *Portland Bridge & Building Co. E 3d
 *Williamette Iron & Steel Works

PENNSYLVANIA.

ALLEGHENY—Albree, Chester B. Iron Works
 Co. (Light)
RIESECK, P., Allegheny av. & Rebecca.
 (See adv. bottom of page)
 BEAVER FALLS—*Penn Bridge Co.
 RETHLEHEM—Guerber Engineering Co.
 BLOOMSBURG—Harman & Hassert
 CANONSBURG—*Fort Pitt Bridge Works
 CHAMBERSBURG—*Nelson Construction Co.
 DANVILLE—Danville Foundry & Machine Co.
 DU BOIS—Du Bois Iron Works.
 EASTON—*Easton Foundry & Machine Co.
 LANCASTER—*Lancaster Machine &
 Structural Works (of Camden, N. J.)
 Rote, A. B., & Co.
 PHILADELPHIA—*American Bridge Co.,
 Penna. bldg.
 Baizley, John Iron Works, 514 S Delaware
 av
 Barnes, Winfield S. & Co., Witherspoon
 bldg
 Belmont Iron Works, 22d & Wash'n av
 Clopp, Geo. B., 3717 Filbert
 Creswell, S. J., Iron Works, 23d & Cherry
 *Etter Erecting Co., Perry bldg
 Greiner, J. H. (Erecting Contractor), Heed
 bldg
 Hoffman Engineering & Contracting Co.,
 Penna. bldg
 *Keystone Structural Co., Harrison bldg
 Levering & Garrigues, 3302 Ludlow
 Lindsay, W. W. & Co., Harrison
 McCarty, A. F. & Co., 1215 Filbert
MERRITT & CO., 1024 Ridge av. (See
 adv. index, end of book)
 North Penn Iron Co., N 3d & Sedgley
 Parvin & Co., Stephen Girard bldg
 *Penna. Steel Co., Girard bldg
 *Phila. Bridge Works, Real Est. Trust bldg
 *Phoenix Bridge Co., 410 Walnut
REMPPIE, WM. F. CO., 1506 Sansom.
 (See adv. index, end of book)
 *Shoemaker, Lewis F. & Co., Harrison bldg
 Steel & Wike Co. (Inc.), Stephen Girard
 bldg

Steward & Stevens Iron Works, 9th cor
 Montgomery av
 Townsend, David (Steel Bridges & Indus-
 trial Plants), Witherspoon bldg
 Wark, W. E. & Co., 16th & Chestnut
 PHOENIXVILLE—*Phoenixville Iron Co.
 (Steel Only)
 PITTSBURG—*American Bridge Co.
 *Bollinger-Andrews Construction Co. (Em-
 pire bldg
 Carrol, Porter Boiler & Tank Co., Em-
 pire bldg
 Duff Construction Co., Frick bldg
 Eichleay, Jno., Jr., Co., 21st & Wharton
 *Fort Pitt Bridge Works, House bldg
 Heyl & Patterson, 51 Water
 Kratzer, W. N., & Co., 3218 Smallman
 *McClintic-Marshall Construction Co.,
 Park bldg
***MINNEAPOLIS STEEL & MA-**
chinery Co., 1007 Bessemer bldg. (See adv.
 index, end of book)
 *Penn. Bridge Co., Diamond Bank bldg
 Phoenix Steel Co., Inc., Putnam & P. R. R.
 *Pittsburg Bridge & Iron Works, Pitts-
 burg, Pa.
 Pittsburg Construction Co., Diamond Na-
 tional Bank bldg
 *Pittsburg Steel Construction Co., Lewis
 *Riter-Conley Mfg. Co., 56 Water blk
***SCAFFE, WM. B. & SONS CO., 221 1st**
av. (See adv. index, end of book)
STEWART, JAS. & CO. (Mills & Rail-
way Depots), Westinghouse bldg
 West Braddock Bridge Co., 512 Smithfield
 Volkammer & Co., Empire bldg
 POTTSTOWN—*McClintic-Marshall Construc-
 tion Co.
 POTTSVILLE—*Eastern Steel Co.
 RANKIN—*McClintic Marshall Construction Co.
 READING—REMPPIE, WM. F. CO. (See
 adv. index, end of book)
 ROCHESTER—*Pittsburg Bridge & Iron Works
 ROYERFORD—*Keystone Structural Co.
 SCRANTON—Emergency Construction Co.
 Finch Mfg. Co.
 STEELTON—*Penna. Steel Co.
 YORK—*York Bridge Co.

RHODE ISLAND.

PROVIDENCE—Builders' Iron Foundry, 9
 Providence Steel & Iron Co. Coddling
 Tower, James H., 46 Borden

TENNESSEE.

CHATTANOOGA—*Converse Bridge Co.
 *Cope Bridge Co.
 Eureka Supply Co.
 MEMPHIS—*Memphis Bridge Co.
 Chickasaw Iron Works
 NASHVILLE—*Nashville Bridge Co.

TEXAS.

EL PASO—*MINNEAPOLIS STEEL & MA-
 chinery Co., 505 Guaranty Trust bldg.
 (See adv. index, end of book)

UTAH.

SALT LAKE CITY—*MINNEAPOLIS STEEL
 & Machinery Co., 324 Dooley blk. (See
 adv. index, end of book)

VIRGINIA.

MANASSES—*Tillet, Jno. R.
 NORFOLK—MacNichol, C. F. Construction Co.
 Lowenberg bldg
 RICHMOND—Richmond Iron Works, Broad c
 Snyder, Asa & Co., 731 Cary 15th
 ROANOKE—*Virginia Bridge & Iron Co.

WASHINGTON.

SEATTLE—*American Bridge Co.
 Burrell Construction Co., Walker bldg
 International Contract Co., New York blk
***MINNEAPOLIS STEEL & MA-**
chinery Co., 338 Globe bldg. (See adv. in-
 dex, end of book)
 Pacific Iron & Steel Works, 929 Ewing
 *Puget Sound Bridge & Dredging Co.,
 Scan.-Am. Bank bldg.
 *Seattle Bridge Co., Pacific blk.
 Vulcan Iron Works
 Washington Iron Works Co.
 TACOMA—*Northwest Bridge Co., Bernice
 bldg.

WEST VIRGINIA.

WHEELING—*Riverside Bridge Co.
 *West Virginia Bridge & Construction Co.

WISCONSIN.

LA CROSSE—*La Crosse Bridge & Steel Co.
 MILWAUKEE—*American Bridge Co.
 Hackendahl & Schmidt Co., 1513 St Paul av
 Hell Co.
 *Milwaukee Bridge & Iron Works, St. Paul
 *Milwaukee Bridge Co. av c 17th
 Skobbs Bros., 951 30th
 *Wisconsin Bridge & Iron Co., Pabst oldg.
WISCONSIN IRON & WIRE WORKS,
 190 E. Water, Milwaukee, Wis. (See
 adv. index, end of book)
***WORDEN-ALLEN CO., P. O. Box 528.**
 (See adv. below)
 WAUKESHA—*Modern Steel Structural Co.

Steel (Swedish)

(See Iron & Steel, Swedish.)

Steel (Tack Plate)

AMERICAN SHEET & TIN PLATE
 Co., Frick bldg, Pittsburg, Pa. (See adv.
 index & branch offices, end of book)
 Empire Iron & Steel Co., Niles, O.
 La Belle Iron Works, Steubenville, O.
 Wheeling Steel & Iron Co., Wheeling, W. Va.

WORDEN-ALLEN COMPANY,

Consulting and Contracting Engineers,

Manufacturers of Steel Structures

MILWAUKEE, WIS.

Chicago Office,

184 LaSalle Street.

WE CARRY A LARGE STOCK ON HAND AT OUR WORKS.

P. RIESECK,

Structural Steel of all kinds in Stock.

All kinds of Iron Work.

Allegheny Ave. and Rebecca Street,

ALLEGHENY, PA.

Steel Tanks

(See Tanks, Iron & Steel.)

***Steel Tipples & Trestles**

(See also Tipples, Mine.)

SCAIFE, WM. B. & SONS CO., 221
1st av., Pittsburg, Pa. (See adv. index,
end of book)**Steel (Tool)**

(See also Steel Importers.)

AMERICAN BRAKE SHOE & FOUNDRY
Co., 170 B'way, New York. Works, Chi-
cago Heights, Ill. (See adv. index &
branch offices, end of book)**American Tube & Stamping Co. (Crucible),**
Bridgeport, Conn.**Baldwin Steel Co. (Crucible), 133 Reade, N. Y.****Bethlehem Steel Co., South Bethlehem, Pa.****Brachurn Steel Co. (Tool, Spring, Hammer &**
Machinery, Fine Open Hearth Steel), Brae-
hurn, Pa.**Brown & Co. (Inc.) (High Grade Crucible),**
10th & Duquesne Way, Pittsburg, Pa.**Burgess, Chas., Cyclops Steel Works (Crucible),**
Titusville, Pa.**Carpenter Steel Co. ("Crucible" for Tools,**
Dies, Cutlery, etc.), Reading, Pa.**Colonial Steel Co. (Crucible & Open Hearth, in**
Bars, Sheets & Circular Plates, Plov, Saw,
Shovel, Axe, Fire Fly & Merchant Steel),
etc.), Keystone hldg, Pittsburg, Pa.**Columbia Tool Steel Co., Chicago Heights, Ill.****Crucible Steel Co. of America, Frick hldg,**
Pittsburg, Pa.**Damascus Crucible Steel Casting Co., "Cruci-**
ble," "Dawson," "Process," New Brighton,
Pa.**Damascus Nickel Steel Co. (High Grade Tool**
& Machinery Bar Steel & Nickel Steel),
Phila. Bourse, Phila., Pa. Works, Carnegie,
Pa.**Disston, Henry & Sons (Inc.) (Crucible), Ta-**
cony, Phila., Pa., & 75 W Wash'n, Chicago,
Ill.**Farist Steel Co. (Cast Steel for Tools & Dies),**
Bridgeport, Conn.**Firth-Sterling Steel Co., Pittsburg, Pa.**
(Wheelock, Lovejoy & Co., Selling Agents,
23 Cliff, New York)**Halcomb Steel Co. (Crucible & High Grade),**
Syracuse, N. Y.**Illingworth, Jno. Steel Co. (Crucible & Open**
Hearth), Frankford, Phila., Pa., & 25 Cliff,
New York**International High Speed Steel Co., Franklin**
sq., New York**Kidd Bros. & Burgher Steel Wire Co. (Crucible**
Cold Drawn all Shapes Drawn Header &
Drawn Grip, Die Steel), Aliquippa, Pa.**Ludlow Steel & Spring Co. (Crucible Cast**
Steel), Pompton, N. J.**Midvale Steel Co., Nicetown, Phila., Pa.****New Brighton Steel Co., New Brighton, Pa.****Norwalk Steel & Iron Co. (Crucible), Nor-**
walk, O.**Stuhbs Steel Co., 17 N 5th, Phila., Pa.****Vulcan Crucible Steel Co., Aliquippa, Pa., &**
2d Nat'l Bank hldg, Pittsburg, Pa.**Steel Towers**

(See Towers, Steel & Tank, Water.)

Steel Tubing

(See Tuhng, Various Kinds.)

Steel (Umbrella Rod)*AMERICAN SHEET & TIN PLATE**
Co., Frick bldg, Pittsburg, Pa. (See adv.
index & branch offices, end of book)**Steel Wire**

(See Wire, Steel, etc.)

Steel Wool & Shavings**American Steel Wool Mfg. Co., 451 Greenwich,**
New York
Buehne Steel Wool Co., 99 Nassau, New York**Steel Works Construction**(See Blast Furnace & Steel Works, Engineers
& Contractors)**Steels (Butchers, Etc.)****American Cutlery Co. (Table & Butchers'),**
193 Mather, Chicago, Ill.**AMERICAN TAP & DIE CO., Greenfield,**
Mass. (See adv. index, end of hook)**Chatillon, Jno. & Sons, 85 Cliff, New York****Clyde Cutlery Co., Clyde, O.****Foster Bros. & Chatillon Co., Fultou, N. Y.****Hoffman, G. & A., Frankford, Phila., Pa.****Mack & Co., Rochester, N. Y.****Stems (Chaplet)****Cleveland Chaplet & Mfg. Co. (Wrought**
Iron), Cleveland, O.**Steering Gears**

(See Gears)

Stencils**Bennett Stamp & Stencil Works, 58 Griswold,**
Detroit, Mich.**Crescent Seal & Stamp Co., Cambridge, Mass.****Hanson, C. H., 44 S Clark, Chicago, Ill.****Monce, S. G. (Interchangeable Lock), Union-**
ville, Conn.**Smith, R. H. Mfg. Co., 293 Main, Springfield,**
Mass.**Stencil Treasury, 209 E 59th, New York****Weber-Erickson-Bunting Co., 211 Diamond,**
Pittsburg, Pa.**Steps (Automobile)****DAHLSTROM METALLIC DOOR CO.**
(Diamond Mesh), Jamestown, N. Y., & 299
B'way, New York. (See adv. index, end of
book)**English & Mersick Co., New Haven, Conn.****Steps (Sewer)****Lanz, M. & Sons, 101 S 29th, Pittsburg, Pa.****Sterilizing Apparatus****Bernstein Mfg. Co. (For Hospitals), 3d &**
Westmoreland, Philadelphia, Pa.**Bramhall, Deane Co. (For Hospital, etc.), 264**
Water, New York**Cilmax Machinery Co. (For Milk), Indian-**
apolis, Ind.**Sticks (Cutter)****Menasha Mfg. Co. (for Paper Mills), Menasha,**
Wis.**Stills (Copper)****American Copper & Brass Works, 614 E Front,**
Cincinnati, O.**American Copper & Iron Works, 928 Winnebago,**
Milwaukee, Wis.**Badger, E. B. & Sons Co., 63 Pitt, Boston,**
Mass.**Burkhard, Thomas, 494 Flushing av, Brooklyn,**
N. Y.**Case, W. A. & Son, 31 Main, Buffalo, N. Y.****Flynn Bros., 17th & Park av, Hohoken, N. J.****Harris, Arthur & Co., 44 Curtis st., Chicago,**
Ill.**Heussner, August, 164 E 18th, New York****Joachim, Andrew, 148 E 50th, New York****Kast Copper & Sheet Iron Co., 91 Main, Buf-**
falo, N. Y.**Laubenheimer, Geo. E. Co., 1347 Carroll av,**
Chicago, Ill.**McMillan Bros. Co., Mohile, Ala.****PETROLEUM IRON WORKS CO.,**
Washington, Pa. (See adv. index &
branch offices, end of hook)**Ross', August Son Copper Works, 232 W 27th,**
New York**Squier, Geo. L. Mfg. Co., 490 B'way, Buffalo,**
N. Y.**Street, R. R. & Co., 184 Wash'n, Chicago, Ill.****Tragesser, John Steam Copper Works, 457 W**
26th, New York**Vulcan Copper Works Co., 465 E Front, Cin-**
cinnati, O.**Wasels Copper Works, 50 N 3d, Brooklyn, N. Y.****Zohler, Otto Mfg. Co., 165 W Chicago av, Chi-**
cago, Ill.**Stills (Oil, Tar, Etc.)**

(See also Sugar Machinery)

Carroll-Porter Boiler & Tank Co., Emple bldg,
Pittsburg, Pa.**Connell, J. D. Iron Works Co. (also Turpentine),**
New Orleans, La.**Dimmick Pipe Co., Birmingham, Ala.****Girard Boiler & Mfg. Co., Girard, O.****GRAVER, WM. TANK WORKS (for**
Oil Refineries), East Chicago, Ind. (See
adv. index, end of hook)**Hammond Iron Works, Warren, Pa.****Helperhausen Bros., Saginaw, Mich.****Lacy Mfg. Co., Los Angeles, Cal.****Marietta Boiler Works, Marietta, O.****PETROLEUM IRON WORKS CO., Wash-**
ington, Pa. (See adv. index & branch
offices, end of hook)**REEVES BROS. CO., Alliance, O.**
(See adv. index, end of book)**Riter-Conley Mfg. Co., 55 Water, Pittsburg, Pa.****SCAIFE, WM. B. & SONS CO., 221 1st**
av, Pittsburg, Pa. (See adv. index, end of
book)**Stier, Herman Mfg. Co., 552 N Halsted, Chi-**
cago, Ill.**Struthers-Weils Co., Warren, Pa.****Tudor Boiler Mfg. Co., 716 E Pearl, Cincin-**
nati, O.**Stills (Pharmaceutical)****Burkhard, Thomas, 494 Flushing av, Brooklyn,**
N. Y.**Colton, Arthur, 184 Brush, Detroit, Mich.****Day, J. H. Co., 1144 Harrison av, Cincinnati, O.****Eimer & Amend, 18th & 3d av, New York****Stokes, F. J. Machine Co., 902 Thompson,**
Phila., Pa.**Stills (Water)****Badger, E. B. & Sons Co., 63 Pitt, Boston,**
Mass.**Barnstead Pure Water Still Co., 107 Portland,**
Boston, Mass.**Jewell Water Still Co., 40 W Quincy, Chicago,**
Ill.**KOVEN, L. O. & BRO., 50 Cliff, New York.**
(See adv. index, end of book)**Palatable Water Still Co., Whipple, Boston,**
Mass.**Peirce, A. H. Mfg. Co., 120 N Greene, Chicago,**
Ill.**Wagner Water Still Co. (Automatic), 87**
Washington, Chicago, Ill.**Stirrups or Hangers****American Iron & Steel Mfg. Co., Lebanon, Pa.****AMOS, CHAS. & CO., 94 W Larned,**
Detroit, Mich. (See adv. index, end of hook)**BETHLEHEM FOUNDRY & MACHINE**
Co., Front, South Bethlehem, Pa. (See adv.
index, end of hook)**CHAMPION IRON CO., Kenton, O.**
(See adv. index, end of hook)**Continental Bolt & Iron Works, 22d & Union,**
Chicago, Ill.**Dietrich Bros., 344 North, Baltimore, Md.****Haskell, Wm. H. Mfg. Co., Pawtucket, R. I.****Hoopes & Townsend Co., 1330 Buttonwood, Phil-**
adelphia, Pa.**Lanz, M. & Sons, 101 S 29th, Pittsburg, Pa.****Michigan Bolt & Nut Works, Detroit, Mich.****Moran Bolt & Nut Mfg. Co., Florida cor Main,**
St. Louis, Mo.**Mulvey, Chas. Mfg. Co., 18 S Jeff'n, Chicago,**
Ill.**NATIONAL SUPPLY CO., 7 W Lom-**
hard, Baltimore, Md. (See adv. index, end
of hook)**Old Dominion Iron & Nail Works Co., Rich-**
mond, Va.**Pawtucket Mfg. Co. (Stirrups only), Paw-**
tucket, R. I.**Peters, Jas & Son (Wrought Iron, Stirrups),**
1934 N Front, Phila., Pa.**Russell, Burdall & Ward Bolt & Nut Co., Por-**
chester, N. Y.**STEWART & ROMAINE MFG. CO.,**
124 N 6th, Philadelphia, Pa. (See adv. index,
end of hook)**SMITH, F. P. WIRE & IRON WORKS,**
100 Lake, Chicago, Ill. (See adv. index,
end of hook)**Variety Mfg. Co. ("Mulvey" Stirrups), Sacra-**
mento & Carol av, Chicago, Ill.**Stock Marks****Pratt, Wm. E. Mfg. Co., 91 Lake, Chicago, Ill.**

Stocks & Dies

(See also Screw Plates)

Acme Machinery Co., Hamilton & Belden, Cleveland, O.
AMERICAN TAP & DIE CO. (Blacksmiths & Pipe), Greenfield Mass. (See adv. index, end of book)
ARMSTRONG MFG. CO. (Pipe Threading, etc.), Bridgeport, Conn., & 139 Centre, New York. (See adv. below)
ASHCROFT MFG. CO. (Pipe), 85, 87 & 89 Liberty, New York. Works, Bridgeport, Conn. (See adv. index, end of book)
BAY STATE TAP & DIE CO. (Solid Screw Plate Stocks, etc.), Mansfield, O. (See adv. index, end of book)
 Besly, Chas. H. & Co. ("Badger" Die & Stock Set), 15 S. Clinton, Chicago, Ill.
 Billings & Spencer Co., Hartford, Conn.
 Borden Co. (Solid Adjustable Die Stocks), Warren, O.
 Billings & Spencer Co., Hartford, Conn.
 Brubaker, W. L. & Bros. ("Armstrong" Pattern Adjustable), Millersburg, Pa.
 Butterfield & Co., Derby Line, Vt.
 Card, S. W. Mfg. Co., Mansfield, Mass.
 Carpenter, J. M. Tap & Die Co., Pawtucket, R. I.
 Conant & Donelson & Co. ("Little David"), Greenfield, Mass.
 Connecticut Tool Co. (Adjustable Pipe Threading), Bridgeport, Conn.
 Crane Co., Est., 1855 (Pipe Threading, etc.), 519 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
 Curtis & Curtiss (Pipe), Bridgeport, Conn.
 Eaton, Cole & Burnham Co. (Solid, Adjustable & Screwing), Bridgeport, Conn.
 Enterprise Windmill Co. (Ratchet Pipe Threading), Sandwich, Ill.
 Hart Mfg. Co. ("Duplex," "Oster," Adjustable Ratchet Die Stocks), Cleveland, O.
 Hayes, Harrison (Adjustable), 41 Cross, Portland, Me.
 Hollands Mfg. Co. (Pipe), Erie, Pa.
 Holroyd & Co. ("Holroyd"), Waterford, N. Y.
 Jarecki Mfg. Co. (Pipe Threading, etc.), Erie, Pa., & Pittsburg, Pa.
 Kemp, C. M. Mfg. Co. (Ratchet Stocks), 401 E Oliver, Baltimore, Md.
 King, J. M. & CO. (Blacksmiths' & Mahinists'), Waterford, N. Y.
 Loew Mfg. Co. ("Loew" Adjustable Die Stock), Cleveland, O.
 Lowell Wrench Co. (Ratchet Die Stocks), Worcester, Mass.
MORSE TWIST DRILL & MACHINE Co. (Screw Plates & Dies), New Bedford, Mass. (See adv. index, end of book)
OIL WELL SUPPLY CO., 215 Water, Pittsburg, Pa. (See adv. index, end of book)
 Oster Mfg. Co. (Ratchet Stock & Die), 2057 E 61st Pl, Cleveland, O.
 Pancoast, Hy. B. & Co. (Pipe Threading, etc.), 243 S 3d, Philadelphia, Pa.
 Polk, A. J. & Son (Pipe), Millersburg, Pa.
 Pratt & Whitney Co., Hartford, Conn.
 Reece, D. F. Co., Greenfield, Mass.
 Reed Mfg. Co. (Adjustable & Solid), Erie, Pa.
 Robbins, Gamwell & Co. (Die Stocks), Pittsfield, Mass.
 Saunders, D. Sons (Pipe Threading, etc.), Yonkers, N. Y.
 Standard Engineering Co. (Hand), Ellwood Standard Tool Co., Cleveland, O. City, Pa.
 Walworth Mfg. Co. ("Hall," Pipe Threading, etc.), 132 Federal, Boston, Mass.
 Wells, F. E. & Son Co. ("Economy" Pipe Threading), Greenfield, Mass.
 Wiley & Russell Mfg. Co. ("Lightning," "Green River" or "Rose"), Greenfield, Mass.
 Winter Bros. Co. (Die Stocks), Wrentham, Mass.

Stone (Artificial Building)

(See also Blocks, Hollow Concrete Building.)

Cleveland Concrete Building Block Co. (Building Blocks), Cleveland, O.
 Durolithic Co., Builders' Exchange bldg., Buffalo, N. Y.
 Ellbacher, Chas., 32 4th, Elizabeth, N. J.
 Flatley Bros. & Co., Green Bay, Wis.
 Lewis, Jno. A., Des Moines, Ia.
 Metropolitan Stone Co., 1 Madison av, New York
 Miracle Pressed Stone Co., Sioux Falls, S. Dak.
 New England Stone Co. (for all Purposes), 447 Grand av., New Haven, Conn.
 Palmer, Harmon S. Hollow Concrete Building Block Co., Washington, D. C.
 Standard Concrete Mfg. Co., 260 Clarkson, Brooklyn, N. Y.
 Standard Stone Co. ("Raman"), York, Pa.
 Stevens Cast Stone Co. ("Litholite"), Harvey, Ill.
 Wichita Hydraulic Stone & Brick Co., Wichita, Kan.

Stone Breakers

(See Rock & Ore Crushers)

Stone Carvers

(See Carvers, Stone)

Stone Channeling Machines

(See Machines, Stone Channeling)

Stone Crabs (Hook & Chain)

(See Crabs, Hoisting.)

Stone (Crushed)

(See also Trap Rock; also Granite Producers, Workers, Etc.; also Stone Producers, Workers, Etc.; also Stone Screenings)

ARKANSAS.

LITTLE ROCK—Twen Cen Granite Co. (Granite)

CALIFORNIA.

COLTON—California Portland Cement Co. (Limestone)
 LOS ANGELES—California Portland Cement Co. (Limestone)
 United States Granite Pressed Brick Co.
 OAKLAND—Piedmont Paving Co., Macdonough bldg
 SAN FRANCISCO—California City Rock Co., 503 California
 Gray Bros. (Trap Rock), Hayward bldg
 Union Construction Co., 207 Montgomery
 Wetmore, G. P. & Co., Lombard & Montgomery

CONNECTICUT.

BRIDGEPORT—Pierce, B. D., Jr., (Trap Rock, etc.), 122 Bank
 Silliman & Godfrey Co., 1110 Broad
 HARTFORD—Keenan, D. F. (Trap Rock), 721
 Standish Stone Co., 1913 E Main
 MERIDEN—Connecticut Trap Rock Quarries
 Lane Construction Co.
 Lane Quarry Co.
 MIDDLETOWN—Haddam Granite Co. (Granite)
 NEW BRITAIN—Caldwell, Chas. B.

NEW HAVEN—Blakeslee, C. W. & Sons
 Brazos, Frank, 808 Elm
 Connecticut Concrete Co.
 Connecticut Trap Rock Quarries (Trap Rock)
 NORWICH—Torrance, Archibald
 PLAINVILLE—Cook Stone & Ice Co.

DISTRICT OF COLUMBIA.

WASHINGTON—Smith, Chas. G. & Son, 3218 K, N W

GEORGIA.

ATLANTA—Kriegshaber, V. H.
 AUGUSTA—Lithonic Crushed Stone Co.

ILLINOIS.

ALTON—Armstrong, Jno. Lime & Quarry Co. (Limestone)
 CHICAGO—Amberg Granite Co. (Granite), 438 Fulton
 American Crushed Stone Co. (& Granite), 92 La Salle
 Artesian Stone & Lime Works Co., Grand & N Campbell avs
 Brownell Improvement Co. (Limestone, also Concrete Stone), Cham. of Com. bldg
 Chicago Crushed Stone Co., 108 La Salle
 Chicago Union Lime Works Co., W 19th & S Lincoln
 Chicago & Naperville Stone Co., 184 La Salle
 Dolese & Shepherd Co. (& Granite), 184 La Salle
 Illinois Stone Co., Lumber & W 22d
 La Grange Stone Co., Old Colony bldg
 Milwaukee Monument Co. (Granite), Chamber of Commerce bldg
 Montgomery, F. M., 108 La Salle
 O'Laughlin, J. & A. C., 172 Wash'n
 Producers Supply Co., 138 Wash'n
 Stearns Lime & Stone Co. (Limestone), 165 E Randolph
 United States Paving & Improvement Co.
 Western Granite Supply Co. (Granite), Cham. of Com. bldg
 Western Stone Co., Chamber of Commerce bldg
 Wisconsin Granite Co. (Granite), 138 Wash'n
 DECATUR—Kiser Coal Co. (Crushed Granite)
 EAST ST. LOUIS—East St. Louis Stone Co., 40 Missouri av

JOLIET—Bowen, J. R. & Co.

Joliet Flux Co.
 KANKAKEE—Lehigh Quarry Co.
 LA GRANGE—La Grange Stone Co.
 NAPERVILLE—Dolese & Shepard Co.
 PEORIA—Wasson, T. J.
 Wasson, T. J.

QUINCY—Menke, F. W. Stone & Lime Co. (Limestone)
 ROCK ISLAND—Davis, T. B. (Crushed Rubble Limestone)

INDIANA.

BOONVILLE—Dalton, H. M. Stone Co.
 EVANSVILLE—Bedford & Nugent
 Eichel Lime & Stone Co. (For Macadam, etc.)
 HUNTINGTON—Erie Stone Co.
 Keefer & Bailey
 INDIANAPOLIS—A. & C. Stone & Lime Co.
 LOGANSPORT—Lux & Talbot Stone Co.
 WABASH—Bridges', Thos. Son

IOWA.

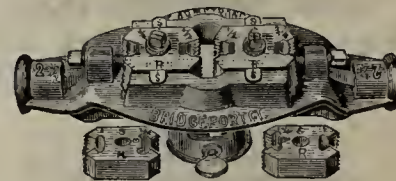
FARLEY—Arquitt, B. N. & Sons
 FORT MADISON—Fort Madison & Appanoose
 KEOKUK—McManus & Tucker Stone Co.
 MASON CITY—Mason City Stone Co.



Genuine Armstrong Stocks and Dies

are the standard of the world. Dies are adjustable to variations in fittings. All sizes from $\frac{1}{8}$ inch to 4 inches. Accept only the *genuine* with our name and trade-mark. Sold by dealers everywhere.

The Armstrong Manufacturing Co.,



315 KNOWLTON ST.,
 BRIDGEPORT, CONN.

KENTUCKY.

HOPKINSVILLE—Daiton, H. M. Stone Co.
LOUISVILLE—Speed, J. B. & Co.
NEWPORT—Ohio River Stone Co.

MAINE.

PORTLAND—Maine & New Hampshire Granite Corporation (Granite)

MARYLAND.

BALTIMORE—American Sand & Stone Co., 616 N Calvert
Attkinson, Jas. H., 29th & Hampden av
Conway, John T., 303 E Pratt
Pihbert Paving & Construction Co., 1210 Block

GUILFORD & WALTERSVILLE GRAN-
ite Co., 3 E Lexington. (See adv. index, end of book)

Hlook & Ford, 6 E Lexington
Leonard, Daniel A., Builders' Exchange bldg
Maryland Quarry Co., Law bldg
Schwind Quarry Co., Fidelity bldg
Standard Lime & Stone Co., Equitable bldg
FREDERICK—Frederick Lime & Stone Co.
PORT DEPOSIT—McClenahan Granite Co. (Granite)

MASSACHUSETTS.

BOSTON—Fletcher & Lahey, 166 Devonshire
McMurty, A. J. & G. H., 16 Shepard (Br)
Massachusetts Broken Stone Co., 235 Frank-

Richmond, Augustus C., 351 Dorchester (S. B.)

ROCKPORT GRANITE CO. (Gran-
ite, All Sizes), 31 State. (See adv. index, end of book)

West Roxbury Trap Rock Co., Grove cor Centre, W R

Winchester Rock & Brick Co., 79 Milk
HAVERHILL—Fletcher, H. A. & Co.

Fletcher & Lahey
MONSON—Flynt, W. N. Granite Co. (Granite & Trap Rock)

PIGEON COVE—Pigeon Hill Granite Co.

QUINCY—Kavanagh Bros. Co.

ROCKPORT—ROCKPORT GRANITE CO.
(Granite, all sizes). See adv. index, end of book

WEST CHELMSFORD—FLETCHER, H. E. & Co. (See adv. index, end of book)

Fletcher & Lahey
WORCESTER—O'Gara Construction Co., 405 Webb Granite & Construction Co. Main

MICHIGAN.

ADRIAN—Adrian County Jail
DETROIT—Houghten, H., Hammond bldg
Little, C. H. Co., 37 Pen Bank bldg
Michigan Stone & Supply Co., Newberry
MONROE—Monroe Stone Co. bldg
Shore Line Stone Co.

MINNESOTA.

DULUTH—Duluth Crushed Stone Co.
KASOTA—Babcock, C. W. & Co.
MANKATO—Fowler & Pay
MINNEAPOLIS—Blue Limestone Co., 1529 Central av

Kettle River Quarries Co. (Sandstone)
Langdon Stouc Co. (Limestone), New York Life bldg

Minnesota Crushed Stone Co., 15th & Johnson
NEW ULM—New Ulm Stone Co.
ST. PAUL—Breen Stone Co.
SANDSTONE—Kettle River Quarries Co.
WINONA—Biesanz Stone Co.

MISSOURI.

KANSAS CITY—Pheips Stone & Supply Co., 27th & State Line
Samuel & Holmes Construction Co., Kemper
PRINCETON—Daiton, H. M. Stone Co. bldg
ST. LOUIS—Bruner, P. M. Grantold Co. (Granite), 904 Olive
Eyer mann, G., Jr., & Bro., 1216 S Grand av
Finck, J. C. Mineral Milling Co. (Granite), 101 Barton
Mline & Gordon (Granite), Jefferson & Mo. Pac. R. R.
Missouri Granite & Construction Co., 3410 Gratiot
Mound City Construction Co., 706 Chestnut

Pickei, Geo. Granite Crushing Co. (Granite), 2015 Gratiot
Schneider Granite Co. (Granite), Fullerton bldg
Stifei, Phil. F. (Granite), 2324 Kosciusko
Thompson & Gray Quarry Co., 105 N 7th

NEBRASKA.

BLUE SPRINGS—*Davis, Geo.
OMAHA—Grant Paving Co.
Schali, A. & Co., 511 Jones
Twen Cen Granite Co. (Granite), 421 Olive

NEW JERSEY.

BOUND BROOK—Bound Brook Crushed Stone
DUNELLEN—Garretson & Gray Co.
EAST NEWARK—Van Keuren & Son
JERSEY CITY—Shanley, B. M. & J. F. Co., 26 Exchange pl
Van Keuren & Son
MORRISTOWN—Morris County Crushed Stone Co.

NEWARK—Concrete Building Block Co., 45 Clinton

Shanley, B. M. & J. F. Co., 859 Broad
Tomkins Bros., 78 Passaic
Van Keuren & Son, 401 Pacific, E. N.

PATERSON—McKiernan & Bergin
Marley, Francis J.

Paterson Crushed Stone Co.
PLAINFIELD—Smalley, A. L.

ROCKY HILL—Dclaware River Quarry & Construction Co.

RUTHERFORD—Galloway, E. T.

SCOTCH PLAINS—Hatfield & Weidon

NEW YORK.

ALBANY—Callanan Road Improvement Co. (Limestone), 51 State

Dumary, T. Henry, 78 State
Helderberg Cement Co., 78 State

BUFFALO—BUFFALO CEMENT CO. (Ltd.)
(Also Building Dimension & Cut Stone), 110 Franklin

Buffalo Crushed Stone Co., Ellicott sq.
German Rock Asphalt & Cement Co., D. S. Morgan bldg

GOVERNEUR—Northern Crushed Stone Co.

NEWBURGH—Miller, D. C.

NEW YORK CITY.**Borough of Brooklyn.**

BROOKLYN—Hickey, M. F. & Co., 7 N 2d av
Ryan, N., 491 Smith

Boroughs of Manhattan & Bronx

NEW YORK—Brady, Jas. B., 525 E 118th
Brown & Fleming Contracting Co., 129
Clinton Point Stone Co., 170 B'way Broad
Conklin & Foss, 299 B'way

LEOPOLD, J. S. CO. (Granite), 18
B'way. (See adv. index, end of book)

Long Clove Trap Rock Co., 39 Cortlandt
Manhattan Trap Rock Co., 114 Liberty

Rockland Lake Trap Rock Co., 135 Front

ROCKPORT GRANITE CO. (Gran-
ite, All Sizes), 21 Park Row. (See adv. index, end of book)

Storm King Crushed Stone Co. (Trap Rock & Granite), 80 William

Tomkins, Calvin, 17 Battery pl

(END OF NEW YORK CITY)
SCHENECTADY—Shear, A. & Co.

TROY—Corliss Construction Co.
Pownal Stone Co.

OHIO.

BELLEFONTAINE—Bellefontaine Stone & Lime Co.
BELLEVUE—*Bellevue Stone Co.

BOONVILLE—*France Co.

BOWLING GREEN—*Mercer Stone Co.

BUCYRUS—Brokensword Stone Co. (Crushed for Concrete Purposes)

CAREY—Natl. Lime & Stone Co.

CINCINNATI—American Crushed Stone Co., Johnson bldg

Ashman, A. B. & Co., 9th & John
Donnelly & Dovey Construction Co., Union Trust bldg

Gray, E. F., Builders' & Traders' Ex-
Ohio River Stone Co., 341 York change
Strunk-Meyer Lime Co.

CLEVELAND—Burgess, C. H., 241 Euclid av
Spence Bros., 2923 Euclid av

COLUMBUS—Black Lick Stone Co., Clinton
Casparis Stone Co., Clinton bldg. bldg
Columbus Macadam Co. (Limestone), 319
Ohio Dredging Co. Dublin av
Woodruff & Pausch Stone Co., Columbus,
FINDLAY—*Hancock Stone Co. Ohio
*Tarbox & McCall

FOSTORIA—Seneca White Lime Co.

HOLLAND—*Holland Stone Co.

LIMA—Pugh Stone Co.
Rockport Stone Co.

LOWELLVILLE—Carbon Limestone Co. (Concrete a Specialty)
stone)

MANSFIELD—Francis, E. H. Sons (Lime-
stone)

MARION—Evans, Jno. Lime & Stone Co.

MAUMEE—Ryan Stone Co.

PATTERSON—Herzog, Jno. & Son (Lime-
stone)

PIQUA—Statler, D. C. Co.

PORTAGE—*Bordner Stone Co.

SPRINGFIELD—Mills Bros.
Moore's Lime Co.
Schlatte, Jno.

SYLVANIA—*Sylvania Stone Co.

TOLEDO—Acme Coal, Wood & Builders' Sup-
ply Co., Front & Droege

Flint Stone Co.
Toledo Stone & Glass Sand Co.,
Waterville Cement Post & Stone Co., Na-
tional Union bldg

VAN WERT—*Erie Stone Co.

WHITEHOUSE—*Ryan, Jno.

YOUNGSTOWN—Interstate Limestone Co. (for
Concrete, Macadam, etc.)

PENNSYLVANIA.

EASTON—Easton Lime Co.

GREEN LANE—National Quarry & Crushed
Stone Co.

HARRISBURG—Waiton Quarries (Limestone)

LANCASTER—Kelly, John (Est. of)

NORRISTOWN—Block & Tile Co. (Limestone)

Dyer, Jno. T. Quarry Co.

PHILADELPHIA—Birney, R. C. & Co., 1215
Fibbert

Cedar Hollow Lime Co., Land Title bldg
Conemaugh Stone Co., Arcade bldg

Dyer, Jno. T. Quarry Co. (Stone), Harrison
bldg

General Crushed Stone Co., Real Estate
Trust bldg

Glen Mills Crushed Stone Co., 15 N 4th

Lukens & Yerkes, Commonwealth Trust bldg

Peoples Bros., 25th & Callowhill

Richardson & Ross Quarry Co. (Quarries at
Mogeeown, Pa.) Betz bldg, Phila, Pa.

Richardson & Ward, 714 Betz bldg. Quarry:
Ridley Park, Pa.

Warner, Chas. Co. (Limestone), Land Title
Williamson, Frank, 2202 Chestnut bldg

PITTSBURG—Blair, Reed F. & Co. (Lime-
stone), Frick bldg

Booth & Flinn (Ltd.), (Granite), 1942
Forbes av

Clydesdale Stone Co. (Hard Sanstone)

Columbus Stone Co., Carnegie bldg

Consolidated Stone & Mining Co. (Lime-
stone), Farmers Bank bldg

Eichleay, John, Jr., Co., S 20th & Wharton

Minsinger Co., 562 2d av

Pope Cement & Brick Co., 421 Wood

Winfield Mineral Co., 421 Wood

PLYMOUTH—Standard Crushed Stone Co.,
Cox Station

RIDLEY PARK—Richardson & Ward,
SALANA—*Uittassy Lime & Stone Co.,

SOUTH BETHLEHEM—General Crushed
Stone Co.

TYRONE—American Lime & Stone Co. (Lime-
stone)

WAYNESBORO—Decarbonated Lime & Stone
Co.

WESTCHESTER—Birmingham Stone & Con-
crete Wks (Crushed for Concrete Purposes)

RHODE ISLAND.

EAST PROVIDENCE—McCormick, Jos.
PROVIDENCE—Oneco Granite Co., 49 West-
minster

TEXAS.

EL PASO—El Paso Ice & Refrigerator Co.

VERMONT.

HARDWICK—Woodbury Granite Co. (Granite
only)

NEWPORT—FLETCHER, H. E. & CO.
(See adv. index, end of book)
Fletcher & Lahey.

VIRGINIA.

NORFOLK—*Church Quarry & Mining Co.

WISCONSIN.

AMBERG—Amberg Granite Co. (Granite)

Pike River Granite Co.

HAMILTON—Western Lime & Cement Co.

KENOSHA—Davy Burnt Clay Ballast Co.

LA CROSSE—Black River Granite Co. (Granite)

MILWAUKEE—Chicago Brick & Supply Co.

Menominee Falls Lannon Stone Co., 97

Wisconsin

Milwaukee Concrete & Supply Co., Matthews

bldg

Milwaukee Crushed Stone Co., 204 Grand av

Milwaukee Monument Co. (Granite)

OSHKOSH—Lutz, Robert

RACINE—Horlicks' Lime & Stone Co.

O'Laughlin, Jno. Stone Co.

Stone Crusher Parts & Repairs

(See also Castings, Rock Crusher)

AMERICAN BRAKE SHOE & FOUNDRY

C., 170 Broadway, New York. (See adv.

index & branch offices, end of book)

Steel & Condit, Pearl c Steubner, Jersey City,

N. J.

Taylor Iron & Steel Co., High Bridge, N. J.

Stone Crushers

(See Rock & Ore Crushers.)

Stone Crushing Plants (Complete)

ACME ROAD MACHINERY CO.,

Frankfort, N. Y. (See adv. below)

ALLIS-CHALMERS CO., Milwaukee, Wis.

(See adv. index & branch offices, end of

Bacon, Earle C., 26 Cortlandt, N. Y. book)

Climax Road Machine Co. (Stationary or Port-

able), Marathon, N. Y.

Good Roads Machinery Co., Kennett Square, Pa.

Meyer, Henry H. Co., 110 S Howard, Balti-

more, Md.

SCHOLL, JULIAN & CO., 126 Liberty, New

York. (See adv. index & branch offices,

end of book)

South St. Louis Foundry, St. Louis, Mo.

Traylor Engineering Co., 114 Liberty, New

York. Works, Allentown, Pa.

Stone (Curbing)

BEDFORD QUARRIES CO., 204

Dearborn, Chicago, Ill. Quarries & Mills.

Oolitic, Ind. (See adv. index & branch

offices, on front cover)

Independent Stone Co., Cuyahoga bldg, Cleve-

land, O.

OHIO QUARRIES CO., 818 Euclid av.

Cleveland, O., & 1 Madison av, New York.

Quarries & Mills: Amherst, O.

Stone Cutters' Pneumatic Tools

(See Pneumatic Stone Cutters' Tools)

***Stone Cutters' Points**

ANDERSON, W. H. TOOL & SUPPLY

Co., 14 Macomb, Detroit, Mich. (See adv.

adv. index, end of book)

Stone Cutters' Tools

(See Tools, Granite, Marble & Stone Cutters.)

Stone Cutting Machines

(See Machines, Stone Cutting.)

***Stone (Istrian, Hauteville & Touraine)**BOCKMANN, A. E., 1265-9 Broadway,
New York. (See adv. index, end of book)**Stone Planers**

(See Planers, Stone.)

Stone Polishing Machinery

(See Machinery, Stone Polishing.)

Stone Producers, Workers & Dealers(Firms who operate quarries are marked by either a \$ or * in towns where their quarries or main office are located, or at the P. O. nearest to their works.)
(See also Granite Producers, Workers & Dealers; also Marble Producers.)**ALABAMA.**

ANNISTON—*Anniston Lime & Stone Co.

*Lagarde Lime & Stone Co.

BIRMINGHAM—*Birmingham Mining & Con-

tracting Co. (Limestone)

Oak Hill Marble & Stone Works (Cut Con-

tractors)

HUNTSVILLE—Hummel, J. F. & Son (Con-

tractors)

MOBILE—McDonald, D. J. Stone Co. (Cut Con-

tractors & Flagging)

McDonald, March & Co. (Cut Contractors),

Royal st

SHEFFIELD—\$Fossick, T. L. Co. (Oolitic Lime-

stone)

ARIZONA.

FLAGSTAFF—\$Arizona Sandstone Co.

CALIFORNIA.

COLTON—*California Portland Cement Co.

GILROY—\$Martin, A. A. (Building Rock)

HAYWARDS—Jackson, T. B. (Cut Contractor)

LOS ANGELES—*California Construction Co.

(Granite & Sandstone), 324 E Market

*California Portland Cement Co. (Building

Rock), 129 W 2d

Lane Bros. (Cut Contractors), 910 S Main

Pacific Marble & Granite Co., 931 E 1st

United States Granite Pressed Brick Co.

(Crushed, etc.)

OAKLAND—Velch, W. T. & Bro.

PASADENA—Holmes, Thos.

SACRAMENTO—Harder, O. (Cut Contractor)

SAN DIEGO—\$Simpson-Pirnie Granite Co.

SAN FRANCISCO—Anadell Basalt & Building

Stone Co., 302 Montgomery

Arizona Sandstone Co., 40 New Mont'gy

Bavan Stone Co., 40 New Mont'gy

*Castro Heights Crushed Rock Co. (Crushed

Stone), 206 Kearny

Colusa Stone Co., 206 Kearny

Curry, Jas. M., 40 New Montgomery

Degan, Patrick J., 40 New Mont'gy

*El Campo Quarry Co., Parrott bldg

*Gray Bros., 228 Montgomery

Lloyd, H. J. (Cut Contractor), Harrison, bet

13th & 14th

McGilvray Stone Co., c 2d & King

McPhee Co., 19th & Harrison

\$Raymond Granite Co., c 10th & Division

Richards, Robt., 318 Bush

Roche, Thos. B. & Son, 14th & Harrison

*Union Construction Co. (Crushed Stone,

Paving Blocks & Ballast), 219 Montgom-

ery

*Wetmore, Geo. P. & Co., Chestnut &

Mont'gy

SANTA ANA—\$Arizona Sandstone Co.

COLORADO.

COLORADO SPRINGS—Colorado Springs Co.

Newton Lumber & Mfg. Co.

DENVER—American Granite & Sandstone Co.,

Opera House bldg

Barker, E. S., 1946 Wewatta

Carlson, Robt. Stone Co., 1233 15th

Fraser & Richardson Stone Co., Continental

bldg

Geddis & Seerle Stone Co. (Cut Contractors),

Continental bldg

Hathaway, S. T., 11th c Wewatta

Jacques Bros. & Chalmers, 1424 W Colfax

av

Kerr Marble & Stone Co. (Lava), 6th cor

Mann, Herbert, 7 Larimer Wynkoop

Roberts, J. F., 16th c Delgany

*St. Vrain Red Sandstone Quarries, Tabor

Sites & Buell, 2026 Delgany bldg

Threewit, B. F., 1700 15th

PUEBLO—Harold, D.

Summers, J. C.

CONNECTICUT.

ANSONIA—Holbrook, Royal (Foundation)

\$Potter, Wm. (Foundation)

Secombe Bros. (Cut, Contractors)

\$Dixon, Jno. D., Sylvan av nr Trumbull rd

Hughes & Chapman, 300 Stratford av

Jackson Stone Co., 202 Housatonic av

Keane, M. G., 231 Housatonic av

Park City Granite Works, 457 Mountain

Grove

\$Pierce, B. D., Jr., Co., 122 Bank

Purdy, H. M. Co. (Blue), 550 Water

Sexton, M. H., 1957 Stratford av

Silliman & Godfrey (Blue), 1119 Broad

Wheeler & Howes (Blue), 336 Main

BRISTOL—Arms, Geo. C. (Foundation)

*Linstead, F. W.

Plerson, Martin E.

DANBURY—Austin, Nelson E.

Osborne, A. C. (Blue), 14 Ellsworth

DERBY—Fagan, F. H. Co. (Flagging)

Patchen, Edw. G. (Flagging)

HARTFORD—Baker, Jacob, 190 Front

Belden, Seth & Son (Flagging, etc.), 69

Commerce

Billings Sidewalk & Coal Co. (Blue, etc.),

437 Sheldon

Brabazon, Andrew (Cut Contractor), 21

Pavilion

*Keenan, D. F. (Trap Rock, Rough Wall,

Bottom Stone, etc.), 721 Main

Kelly Bros. (Cut Contractors), 93 Charter

Oak

Putnam, H. E., 300 Sergeant

Smith & Hutton, 1446 Broad

Watson & Jackson Corp., 283 Sheldon

\$Windsor Cut Stone Co. (Red Sand; also

Cutters & Contractors), 40 Edwards

MERIDEN—*Connecticut Trap Rock Quarries

(Crushed)

Grossman, G. J. (Free), 126 Hanover

Lines, H. Wales & Co. (Blue & Brown

Stone), 134 State

Kane, Jas. (Curb & Flagging)

Lane, Jno. S. & Son (Inc.) (Crushed Trap

Rock)

*Lane Quarry Co. (Crushed, etc.)

Luby, Wm. J. (Blue, etc.)

MIDDLETOWN—Middletown Coal Co. (Flag-

Whitmore Bros. (Building gins, etc.)

NEW BRITAIN—Bowman, Alfred H.

Cadwell, Chas. B. (Building & Crushed)

Hanna's, John Son (Cut Contractor), 209 E

Meehan, Jno. F., 571 Main

Smith, T. C., 255 N Stanley

NEW HAVEN—Andrea, Jacob, 60 Sylvan av

Blakeslee, C. W. & Sons (Building, Broken

& Blue), 58 Waverly

Blake, T. A. (Stone, Crushed), 100 Audu-

Bowden, Thos., 139 Sylvan av

Brazos, Frank (Brown & Blue Stone,

Crushed, etc.), 803 Elm

Confrances Bros., 107 Winthrop av

Connecticut Concrete Co. (Building, &

Crushed), 39 Church

*Connecticut Trap Rock Quarries (Crushed

Trap Rock), 101 Meadow

Coyne, John, 83 Hallock

ROAD BUILDING MACHINERY

and supplies of every description

ACME ROAD MACH'Y CO., FRANKFORT, N. Y., U. S. A.

D'Andrea, D. & Son, 473 Oak
 Gilhuly, Bernard, 21 Martin, W. H.
 Kaehle, Wm., 6 Hamilton
 Kellogg, C. W. & Co., 506 State
 Maxwell, J. R., Hedge n St Bernard's Cem.
 Maxwell, Jno. & Son, 70 Hill
 New England Stone Co., 1447 Grand av
 O'Brien, Laurence, 70 Beech
 Phillips, Thos. & Son (Cut Contractors),
 143 High
 Robertson, T. B., 755 Whalley av
 Upson & Granniss (Crushed), 116 Franklin
 Warner-Miller Co. (Blue Stone), Railroad
 av, ft St. John
 Wood, J. W., 146 Wallace
NEW LONDON—Buckley, M. D. (Cut, Con-
 tractor)
 §D'Avignon, F. P. (Cut Contractors), 483
 Ladd, F. M. Co. Bank
 Rogers, H. E. Construction Co.
 §Ryan, J. J. (Cut Contractor & Flagging)
 Young, J. C. & Co.
NORWALK—Meeker Coal Co. (Blue)
NORWICH—Dodd, Thos. J.
 Harrington, P. J.
 Peck, McWilliams & Co. (Flagging)
 §Torrance, Archibald (Crushed)
PLAINVILLE—§Cook Stone & Ice Co. (Trap
 Rock)
PORTLAND—§Brainerd, Shaler &
 Quarry Co. (Brown)
 Conn. Steam Brownstone Co. (Brownstone
 Cutters & Contractors)
 §Middlesex Quarry Co. (Brown)
ROCKVILLE—§Rau, Chas. (Flagging)
ROCKY HILL—*Conn Trap Rock Quarries
SHELTON—See Derby
SOUTHINGTON—Southington Lumber & Feed
SOUTH NORWALK—(See Norwalk) Co.
STAFFORD SPRINGS—Kingsbury, A. W.
 (Monumental Work & Curb Stone, Stone
 Cutter)
STAMFORD—Bounty, A. E. (Blue Flagging),
 169 Atlantic
 Dean, Geo. W. (Blue), 132 Canal
TORRINGTON—Crockett, C. W. (Flagging,
 DeMichiel, Jno. & Bros. etc.)
WALLINGFORD—Todd, H. B. & Son Co.
WATERBURY—§Chatfield & Chatfield (Blue,
 etc.), 94 Benedict
 *City Contracting Co., 42 Bank
 Gaffney, J. W. & Co. (Blue), 427 E Main
 Jackson, Thos., 95 James
 Jackson, Thos. F. (Cut, Contractors), 318
WEST CORNWALL—*Kaolin Co. Bank
WINSTED—Carey, Joseph F.

DELAWARE.

MIDDLETOWN—Hukill, G. E.
WILMINGTON—*Stewart & Donohue
 *Tyre, Philip P., Jr., 1621 Gilpin av

DISTRICT OF COLUMBIA.

WASHINGTON—Acker & Co., N Capital c E,
 Bairstow, Wm., 12 Hanover pl, N. W.
 *Cannon Hill Quarries, 1410 G, N. W.
 *Cranford Paving Co., 15th c G, N. W.
 Chapple, W. H., N. J. av c O. N. W.
 Esher, Geo. C., 2d c O. N. W.
 Flannery, M. C., Del av c B, S W
 Geier, C. F., 807 13th, N E
 Gilbert, Henry P., 1062 32d, N W
 Heany, Thos., 482 Mass av, N W
 Heidenreich, Frederick, Bladensburg rd
 Jouvenal, Rudolph (Cut Contractors), 713
 2d, N W
 Lauder, Jno. W., 2054 32d, N W
 Low, Robert & Co., 115 3d, S W
 O'Dea, Patrick, 916 6th, N E
 Rupprecht, Harry E. (Cut Contractors),
 129 Pa. av, N W
 §Smith, Chas. G. & Son (Foundation &
 Potomac Blue) 3218 K, N W
 Smith, Philip, 1st c B, S W
 Standard Stone Co., 810 F, N W
 §Tripp, Silas D., 1423 F, N W
 Veilmeyer, Jacob & Son, 1420 Ohio av,
 N W
 Williams, B. A. & G. N. (Cut Contract-
 ors), S Capitol & I

GEORGIA.

ATHENS—Bisson, P. & Sons (Building)
ATLANTA—Kriegshaber, V. H., 6 N Forsyth
 Ramsey-Brisben Stone Co., 618 Austell bldg
 Venable Bros, Temple Court
 Walsh & McAlpin, 1 Martin
AUGUSTA—Georgia Rough & Cut Stone Co.
COLUMBUS—Ellledge & Norman
DALTON—Colvard, H. P.

LITHONNIA—Bishop, Wm. J. Sons
ROME—Bale, Frank S.
SAVANNAH—Dixie Stone Co.
TATE (See Marble Producers)

ILLINOIS.

ALTON—*Armstrong, Jno., Lime & Quarry
 Co., (Limestone)
 *Reliance Lime & Quarry Co.
 *Watson, Henry (Limestone)
AURORA—Kapp, P. & Son
BATAVIA—§Barker, Wm. P. & Son
 §Hunter, Griffith Co.
BLOOMINGTON—Higgins-Jung-Kleenau Co.
 Moore, J. K. (Cut Stone)
 Riebe, Hy
BLUE ISLAND—Cool & Schroeder
CHICAGO—American Crushed Stone Co., 92
 Lasalle
 Artesian Stone & Lime Works Co. (Lime-
 stone), Grand & N Campbell avs
 Baumann, Jacob, Dunning cor Ward
 *BEDFORD QUARRIES CO. (Buff
 & Blue Oolitic Ind. Limestone), 204
 Dearborn. Quarries & Mills, Oolitic,
 Ind. (See adv. on front cover)
 Brownell Improvement Co., Chamber of Com-
 merce bldg
 Buscher & Gast (Contractors, Cut), 3333
 N Clark
 Chicago Crushed Stone Co., 108 La Salle
 Chicago Cut Stone Co. (Cut Contractors)
 3403 La Salle
 §Chicago Union Lime Works Co. (Macadam
 & Crushed), 19th & S Lincoln
 Cleveland Stone Co. (Ohio Blue & Buff), 204
 Dearborn
 *Consolidated Stone Co. (Bedford, Indiana
 Stone), Monadnock blk
 Dailmann & Stefan (Cut Contractors), 967 S
 Albany av
 Diener, T. C. & Co. (Contractor, Cut), 346
 W 21st
 §Doiese & Shepard Co., (Crushed, etc.),
 184 La Salle
 Edgeworth, Patk. (Contractor, Cut), 2709
 Stewart av
 Edwards & Ward, Fullerton av bridge
 Egdorf, John, 1133 Otto
 Falter, Geo. & Son, 2068 W Taylor
 Fenn, C. E. & Co. (Wholesalers, Bedford
 Stone), 164 Dearborn
 Fluck & Hamilton, 73d & Kimbark av
 Furst Kerber Cut Stone Co., 443 5th av
 Furst & Fanning (Cut Stone), 73 Haw-
 thorne
 Gibson, A. F. & Co. (Cut Contractor), 3327
 Lasalle
 Hampson Stone Co., 3609 S Oakley av
 Heldmaier, Ernst, Main & Cologne
 §Illinois Stone Co. (Dimension & Rubble)
 22d & Lumber
 Karge, Frank (Cut Contractors), 5829 Bishop
 av
 Klingenhagen, F. M. (Contractor, Cut), 421
 Flournoy
 *La Grange Stone Co. (Crushed, etc.), Old
 Colony bldg.
 L'Anse Brownstone Co., 115 Dearborn
 Lemont Limestone Co., Ashland av, s of 22d
 McHugh, Jno., 5816 Normal av
 McMillan, W. & Son (Inc.) (Building & Cut
 Stone), 315 Chamber of Commerce
 Mahan & Co., Chamber of Commerce bldg
 Malone Stone Co. (Ohio Blue & Buff), 138
 Washington
 Mesce, Pasquale (Contractor), 894 N West-
 ern av
 Nebel & Schick (Contractors, Cut), 985 Ked-
 zie
 *OHIO QUARRIES CO. (Blue &
 Buff, Ohio Sandstone, Sawed Stone &
 Specialty), 204 Dearborn. Quarries &
 Mills, Amherst, O.
 O'Laughlin, Jas. & A. C., 172 Washington
 Olson & Nelson (Cut Contractors), 3345
 La Salle
 *Perry-Matthews-Buskirk Stone Co. (Bedford
 Indiana Stone), Monadnock blk
 Pickel Cut Stone Co. (Contractors, Cut),
 85 Station
 *Portage Entry Quarries Co. (Lake Superior
 Portage Red, Brown & Variegated Sand),
 138 Washington
 Producers Supply Co., Cham. of Com. bldg
 *Rawie, Jno. (Acme Bedford Stone), 138
 Wash'n
 §Rolese & Shepard Co. (Crushed, etc.), 184
 La Salle
 Rutishauser, Wm. & Co. (Contractors, Cut),
 345 N Lincoln
 Schutte, Hy., 329 W. Huron

Shirlaw, Hugh (Cut Contractor), 164 La
 Sinclair, Jas., 138 Wash'n
 Stevens Stone Co., 99 Randolph
 Struble, Henry & Co. (Cut Contractors), 293
 40th
 Sward, A. E. & Co. (Cut Contractor), 449
 43d
 Taft, John (Contractor, Cut), 3401 La Salle
 Thomlinson-Riley Co. (Cut Contractor), W
 39th & Stewart av
 †United States Paving & Improvement Co.
 (Crushed, etc.)
 West Side Cut Stone Co., 700 Cornelia
 Western Stone Co. (Cut Contractors), 320
 Chamber of Commerce bldg
 Wolf, Rudolph, 1221 Newport av
 §Young Stone Co., 138 Wash'n
DECATUR—Grindol, W. H. & Son
 Passold, John J. (Cut Contractor)
EAST ST. LOUIS—§East St. Louis Stone Co.
 (Cut Contractors)
 §Stollie, Casper Quarry & Construction Co.
ELGIN—Magnus & Russell (Cut Stone)
 §South Elgin Stone Co.
ELMHURST—*Elmhurst-Chicago Stone Co.
FAIRMOUNT—Caspary Stone Co.
FREEPORT—Ascher, William
GALESBURG—Craig & Harris (Cut Contractor),
 132 E Simmons
 Davis, S. B. (Cut Contractor), 150 W Main
 King, Alex & Co. (Cut Contractor), 431
 Mulberry st
GRAFTON—§Grafton Quarry Co. (Sandstone)
GRIGGSVILLE—Borrowman, David
HIGHLAND—Feutz, Edward & Son
JOLIET—*Bruce, James
 Commercial Stone Co. (Limestone)
 *Groth, Adam & Co. (Gen'l & Cut Stone
 Contractors)
 *Joliet Flux Co. (Crushed, etc.)
 *Joliet Pioneer Stone Co.
 *Joliet Quarries Co.
 §Keltie Stone Co.
 *Merchants Stone Co.
 *Ross & Curtis Stone Co.
 §Western Stone Co.
KANKAKEE—Kankakee Quarries Co.
 §Kankakee Stone & Lime Co.
 Kerr, Thos. A.
 †Lehigh Quarry Co. (Crushed Stone, etc.)
LA GRANGE—*La Grange Stone Co.
 (Crushed Stone, etc.)
LA SALLE—La Salle Stone Co.
LEMONT—§Illinois Stone Co. (Dimension &
 §Western Stone Co. (Limestone) Rubble)
LENA—Perkins, H. F. (Cut Contractor)
LINCOLN—Lincoln Monument Co.
LOCKPORT—§Western Stone Co. (Limestone)
 LYONS—†Schultz, Fred.
MATTOON—Donnell, Thomas & Son (Build-
 ing Stone, Curbing, etc.)
MOLINE—*Cady Stone Quarry
 *Colona Stone Quarries
 *Moline Stone Co. (Limestone)
 Tropp-Darling Co. (Dealers)
NAPERVILLE—*Doiese & Shepard Co.
PEKIN—Zinger, L. (Marble Cutters & Dealers)

When writing to firms
 whose names appear
 in this book please
 mention

HENDRICKS'
COMMERCIAL
REGISTER

PEORIA—§Central City Stone Co. (Sawed & Cut)
 *Crescent Stone Co. (Crushed, etc.), Y. M. C. A. bldg
 Peoria Stone & Marble Works (Contractors. Cut), 1800 N Adams
 Wasson, T. J. (Crushed), 403 S Washington
 QUINCY—*Menke, F. W. Stone & Lime Co. (Limestone)
 ROCKFORD—Best, W. G. (Limestone)
 *Carrico, T. W.
 *Hart & Page (Building, Bridge & Rubble)
 McMahon Bros.
 Winchester, Thos.
 ROCK ISLAND—*Davis, T. B. (Limestone Crushed Rubble)
 SPRINGFIELD—Baum, M. J.
 Culver Construction Co. (Cut Stone)
 Springfield Monument Co. (Cut Stone)
 URBANA—Clark, C. N. & Co.
 VIRGINIA—Martin, A. L. (Cut Contractor)
 WAUKEGAN—Bairstow, Fred. (Dealer)

INDIANA.

BEDFORD—*Bedford Buff Stone Co.
 Bedford Cut Stone Co.
 *Bedford Quarry Co.
 §Bedford Steam Stone Works (Saw Mills, Columns, etc.)
 §Brooks-Curtis Stone Co.
 *Climax Stone Co. (Saw Mills)
 Furst, Kerber Cut Stone Co.
 *Imperial Stone Co.
 *Indiana Bedford Stone Co.
 Nangle, Jno (Cut Stone Contractor)
 Norton, C. S. Blue Stone Co.
 Norton-Reed Stone Co.
 *Oolitic Stone Co.
 *Perry-Matthews-Buskirk Stone Co. (Bedford Indiana Stone)
 Rowe, John A. (Cut Contractors)
 BLOOMINGTON—Bloomington Cut Stone Co.
 Carpenter, R. H.
 §Central Oolitic Stone Co. (Bluff & Blue Limestone)
 §Chicago & Bloomington Stone Co.
 *Crescent Stone Co.
 *Eagle Stone Co. (Ltd.)
 *Empire Stone Co.
 *Hentley, Geo. W. Stone Co. (Sawed, Cut Hunter Bros. Stone Co. & Turned, etc.)
 §Hunter Valley Stone Co.
 *Monarch Stone Co. of Indiana
 Monroe County Oolitic Stone Co.
 §National Stone Co. (Buff & Blue Limestone)
 South Side Stone Co.
 Springer & White (Brokers)
 Star Stone Co.
 *United States Quarries Co.
 BOONVILLE—*Dalton, H. M. Stone Co. (Crushed Stone & Railroad Ballast)
 BRADFORD—Baker, Lewis
 BRAZIL—Murray, Charles
 CANNELTON—*Pauline, F. S. & Co.
 COLUMBUS—McCormack, P. H. & Co.
 DECATUR—Hughes, W. S.
 EATON—*Eaton Stone Quarry & Oil Co.
 ELLETTTSVILLE—Eclipse Stone Co. (Bedford Cut Stone)
 §Matthews, A. E. (Cut Stone Contractor)
 ELLWOOD—Digel, S. H. (Cutter, Flagging, etc.)
 EVANSVILLE—*Caden Stone Co. (Green River Oolitic Limestone, Rough & Cut)
 *Eichel Lime & Stone Co. (Crushed Macadam, etc.)
 Indiana Marble & Granite Works (Cut Contractors), 628 E Penna.
 Lannert & Rickwood (Cut Contractors), c Penna & Oakley
 Scholz, F. J. & Son, 11 L 3d
 FORT WAYNE—Geake, W. (Cut Contractors), 89 Pearl
 Keller & Braun (Cut Contractors), 88 Pearl
 §Moellering's, Wm. Sons, 53 Murray
 FRANKFORT—*Morris, W. G. & Bro.
 Paul, D. W.
 GOSHEN—Slaughter Granite Co.
 Neidig, Drake & Kolb
 GREENSBURG—§Greensburg Limestone Co.
 INDIANAPOLIS—*Adams, H. C., Majestic bldg
 Billingsley, J. H. Co., 1405 Bates
 *Duncan, Sam'l E., When bldg
 §Flat Rock Stone Quarries, Majestic bldg
 Ittenbach, G. & Co. (Cut Contractors), 916 Harrison
 †Romona Oolitic Stone Co., Ingalls blk
 LAPORTE—Franklin, B. A. (Cut Contractors)
 LAUREL—Laurel Steam Stone Co.
 MARION—*Marion Stone Co.
 MUNCIE—Busch, Russell & Geltz (Cut Contractors)
 NEW ALBANY—Crumbo, W. E. (Cut Contractor)

NEW POINT—§Big Four Stone Co., Builders' Exchange
 *Putman, Jno. J. (Limestone)
 OOLITIC—*BEDFORD QUARRIES CO. (Buff & Blue Oolitic Indiana Limestone), Offices, 204 Dearborn, Chicago, Ill.; 1 Madison av, New York, & 818 Euclid av, Cleveland, O. (See adv. front cover)
 ROCKVILLE—Gaebler, T. F.
 ROMONA—§Romona Oolitic Stone Co.
 ST. PAUL—*St. Paul Stone Quarries.
 SOUTH BEND—Goodall, Jas. E.
 Miller & Lontz
 STINESVILLE—Hoadley, J. & Son
 SULLIVAN—*Spencer Stone Co.
 TERRE HAUTE—Roberts, Richard B. & Son (Cut Contractors)
 §Terre Haute Stone Works Co. (Cut Contractors & Flagging)
 Walsh, E. W.
 VICTOR—*Oliver Bros.
 *Johnson, Matthews Co.
 VINCENNES—Moore, Wm. H. (Cut Contractor)
 WABASH—§Bridges, Thomas & Sons (Bldg)
 WESTPORT—Westport Stone Co.

IOWA.

BURLINGTON—Burrus, O. M. & Bro.
 *Kemper, E. G.
 Sanderson, J. W.
 CEDAR RAPIDS—*Bealer, E. J. (Dimension Edinger, Edw. (Cut Stone) & Building)
 *Iowa Stone Co.
 CLINTON—McDonnell, D. P. J. (Cut Contracting Stone)
 DAVENPORT—Davenport Stone & Marble Co.
 Heald, Levi S.
 *McCarthy & Clark
 DES MOINES—§Francis, J. & Co. (Cut Contractors), E 4th, c Grand
 §Rowat, John (Cut Contractors), 2 c Vine
 DUBUQUE—Doran Bros. & O'Connor
 Schulte, B. & Son (Cut Contractors)
 Wagner & Dorgan (Cut Contractors)
 FORT DODGE—Delano & Son
 FORT MADISON—§Fort Madison & Appanosse Stone Co. (Crushed, etc.)
 INDIANOLA—Harlan, J. M.
 Lundy, Jas. W.
 KEOKUK—§Cameron & McManus
 §Harrison & Dietz
 §McManus & Tucker
 §Tigue, P. & Son
 LE MARS—Moore, M. A.
 Perry, W. H.
 MARSHALLTOWN—§Le Grand Quarry Co.
 McNeeley Bros. (Cain, Oolite & Lime)
 Woods & Sherlock
 MASON CITY—Dayton, C. G.
 *Mason City Stone Co. (Bridges, Rangje, Ruble, etc.)
 MOUNT VERNON—§Mount Vernon Stone Co.
 NEW HAMPTON—Robinson, M. J. (Cut Contractor)
 POSTVILLE—*Williams Wilkes, Dolomite Quarries
 STONE CITY—Dearborn, H. & Sons
 §Erickson, F. Co.
 §Green, Jno. A.
 WATERLOO—Concrete Stone Co.

KANSAS.

GODDARD—Pond, W. M. & Co.
 JUNCTION CITY—De Armond & Root
 KANSAS CITY—JAMES, A. R. & Son, 1017 N 4th
 McPHERSON—Moon, J. C. (Flagging)
 NEWTON—Lynch, R. B.
 McGraw, M. & Co.
 PARSONS—Van Meter, J. F. (Cut Contractor)
 PITTSBURG—White, Hance
 STERLING—Fair, D. J.

KENTUCKY.

JOVINGTON—Farrell, James (Cut Contractor).
 3d b Phila. & Bakewell
 Imeson, J. W. (Cut Contractors), 14th & Spring
 *Schlosser, Frank J., Highland Pike
 Rich, Jos. W., Lex Pike
 FARMERS—*Rowan County Freestone Co. (Kentucky Blue, Rough, Bridge, Dimensions, etc.)
 HADLEY—*Caden Stone Co. (Green River Oolitic Limestone, Rough & Cut)
 HENDERSON—§Fleming, J. H. & Son (Cut Contractors)
 HOPKINSVILLE—*Dalton, H. M. Stone Co. (Crushed Stone & Railroad Ballast)
 HUMMELS—*Kentucky Freestone Co. ("Rockcastle," Stone)

LANGFORD—*Rockcastle Stone Co.
 LEXINGTON—Van Dyke, S. R. (Cut Contractor)
 LOUISVILLE—§Blatz & Krebs Stone Co. (Cut Stone Contractors), 1318 W Walnut
 *Cornwell, Chas. L., Columbia bldg
 Diebold, John & Sons (Steam Stone Works & Contractors), 1417 16th
 §Kilgus, C. F., Long av, e of Workhouse rd
 *Kremer & Co., Long av, e of Workhouse rd
 *Lou Rock Co., 455 W Jefferson rd
 §Manby Bros., Long av, e of Workhouse rd
 *Mehler, C. V., Long av, e of Workhouse rd
 Peter & Burghard Stone Co. (Cut Contractors), 13th cor Maple
 Peter & Melcher Steam Stone Works, 1239 E B'way
 *Schenk, C. F., Long av, e of Workhouse rd
 §Stengel, Urban & Son, Long av, e of Workhouse rd
 *Zabel, F. & Son, Long av, e of Workhouse rd
 MENTON—*Faulkner, R. T. & Co.
 MOUNT VERNON—*Sparks, W. J. (Limestone)
 *Ohio River Stone Co., 7th & Monmouth
 NEWPORT—Brown, Thos. C.
 Imeson, Frank (Cut Contractor)
 *Ohio River Stone Co., 7th & Monmouth
 Spinks, Chas. & Son
 OWENSBORO—Mischel & Barkhaus
 PADUCAH—Downs, J. S. & Co.
 Downs, J. S. & Co.
 SHELBYVILLE—Claxon, J. C.

LOUISIANA.

NEW ORLEANS—Jahneke, F. (Dealer), 810 Trachina, D. & J., 1194 6th Howard
 SHREVEPORT—Newman, A. J. (Cut Contractors)

MAINE.

BELFAST—Hutchins Bros. & Co.
 Wood, M. & Son
 BIDDEFORD—See Granite Producers, Workers
 HOULTON—§Billings & Watts & Dealers
 JONESBORO—See Granite Producers, Workers & Dealers
 PORTLAND—Hawkes Bros., ft of Wilmot
 Landers Bros., 7 Myrtle
 Leighton, Geo. W. & Co.
 McAuley, Geo., 37 Madison
 Mannix Bros., 84 Hanover
 Thompson, Enoch M., 327 Cumberland av
 Union Granite Co., ft. Wilmot

MARYLAND.

BALTIMORE—Andrew, D. M. Co., Mt. Vernon av & 26th
 §Atkinson, James H. (Curb, Building, Flag, etc.), 29th & Hampden av
 Bevan & Sons, Belt Line R. R. & Frisby
 Boone, R. C., 522 Falls rd
 Berry & Tracey (Freestone, North River Blue, etc.), 320 W Hamburg
 Clough & Molloy, Harford rd & Belt Line R R
 Gault, Wm. A. & Son (Cut Contractors), 9 E Lexington
 Graham, Frank F., Calhoun & B & O R R
 §Independent Quarry Co., 309 N Holliday
 Mann, Geo., Columbus av & B & O R R
 Kennedy, Hugh T., 1509 E North av
 Graham, Walter E., 24 N Mount
 Herrick, Jno. Howard (Quarry Agent, Blue, Red & Brown Stone, Marble, Granite & Limestone), 7 Clay
 §Leonard, Daniel A. (Flagging, Building, Paving & Crushed), Builders' Ex
 O'Meara, Jas. & Bro., 1129 Fremont av
 Peat, Wm. & Co. (Cut Contractors), Madison & Forrest
 §Pedicord, I. H. & Sons Quarry Co. (Crushed), 879 Greenmount av
 Rook & Dorling, cor Bayard & Warner
 Rullman & Wilson (Contractors), Lafayette, e of Mt Royal av
 §Schwind Quarry Co. (Crushed Stone), 302 Fidelity bldg
 §Standard Lime & Stone Co. (Lime), Equitable bldg
 DICKERSON—§Standard Lime & Stone Co.
 ELLICOTT CITY—Weber, Albert
 FREDERICK—Frederick Lime & Stone Co. (Crushed Fluxing & Foundation)
 GUILFORD—§Pope, B. F. Stone Co.

MASSACHUSETTS.

ATHOL—Blake, J. C.
Wellman, L. W.
BEVERLY—Fitzgibbon, Thos., 42 Abbott
BOSTON—Bishop, J. W. Co. (Cut Limestone Contractors), 683 Atlantic av
Campbell, P. J. & Sons (Freestone), Southampton c Reading
Carew, Jos. F., 166 Devonshire
Charles River Stone Co. (Cut, Contractors), 73 Tremont
Cleveland Stone Co., 166 Devonshire
Collins & Ham, 119 Boston
Conant, Chas. M., 45 Milk
Consolidated Stone Co. (Bedford, Ind., etc.), 166 Devonshire
Coughlan, F. G. & Sons (Cut Contractors), Albany, c Malden
Cuddihy, M. H. & Sons, 1020 Mass. av
Cutting, Geo. H. & Co., Tremont Bldg.
Dunn, Terence & Co., Farnham nr Reading
Empire Stone Co., 136 Devonshire
Falt, J. P. & Co. (Cut Contractors), 166 Devonshire, S B
Fletcher, H. E. & Co. (Cut Contractors, etc.), 345 A. Wash'n
Fletcher & Lahey (Cut Contractors, etc.), 166 Devonshire
Ford, Austin, 95 Milk
Hernon, Peter F. & Co., 1150 Dorchester
James & Marra, 166 Devonshire
Lahey Bros (Cut Contractors), 9 Cornhill
McDonald, Alex & Son, 294 Wash'n
McKay, J. J., 21 Province
Maher Bros. (Blue Flagging), 603 Albany
Mass. Broken Stone Co. (Broken etc.), 235 Franklin
Mass. Stone Co. (Cut Contractors), Equitable Bldg.
Meany, Edw. F. & Co. (Freestone & Limestone), 534 Albany
Norcross Bros. Co., 73 Tremont
Sullivan, Wm. J. (Freestone), (Cut Contractor), 99 Southampton
Tide Water Trap Rock Co., 89 State
Troy Bros. & Co. (Soapstone), 91 Haverhill
West Roxbury Trap Rock Co. (Crushed & Building), W R
BROCKTON—Long, Michael D.
Messer Bros.
CAMBRIDGE—Bertsch, Wm. A., 4 Cambridge, E C
Ford, Austin & Son (Flagging), 59 Main
Harrington, Jno. (Bluestone), 52 1st, E C
Horgan, J. J., 87 Main Cp.
McDonald, A. & Son (Flagging), 53 Mt. Auburn
Ricker, E. Son & Co.
Sands, Geo. R., 457 Mt. Auburn
Scully, Jno. T., 18 1st
Sweatt & Gould, 235 1st, E C
CLINTON—Creeron Bros. (Cut Contractors)
Gibson, Geo. S.
EAST LONGMEADOW—James & Marra (Light Brown Sandstone)
Longmeadow Quarries Co.
Norcross Brownstone Co. (East Longmeadow Brownstone)
Rankin, J. A.
FALL RIVER—Beattie, Wm., 33 N Quarry
Draper, Jas. E., 302 New Boston rd
Wilmot, J. B. (Flagging, etc.), 866 Pleasant
FITCHBURG—Godbeer, Henry
Litchfield, O. E.
McCauliff, F. A.
McCauliff, Jno.
McNally, Jno.
O'Connor, Danl. Granite Works
Shea, Richd. T.
FRAMINGHAM—Cloyes, Jos. C.
GLOUCESTER—Kennedy, Patk.
HAVERHILL—Fletcher & Lahey (Cut Contractors, etc.)
Fletcher, H. E. & Co. (Cut Contractors, etc.)
HOLYOKE—McCormick, David & Co. (Cut)
HYANNIS—Nickerson, T. W. Contractors)
LAWRENCE—Dorman, Jas.
Lawrence Granite Co.
LENOX—Clford's, James Sons (Freestone)
LONGMEADOW—(See East Longmeadow)
LOWELL—Bowden & Colmer, 901 Lawrence
Carr, Jno. & Son, 1080 Gorham
Carlson, Gus, 1320 Gorham
Gumb Bros. (Blue), 1258 Gorham
Mahan & Meehan, 1095 Gorham
Marinel, J. & Co., Builders' Exchange
Murnigham, Jno., 1278 Gorham
Spencer, Thos. H., ft of Maple
Wheeler, Chas., 51 Thorndike
LYNN—Ames & Snow, 394 B'way
Blethen, Andrew R. (Brown & Blue, 1 Kavanagh, M. J., 88 Silsbee Box pl
Merrill, Geo. B. & Co., 132 Boston
Shea & Donnelly (Cut Contractors), 28 Harbor

MALDEN—Weathers, Jos.
Wentworth, Geo. A. (Dealer), 23 Franklin
MIDDLEBORO—Richards, Geo. C.
MILFORD—Kinney, A. C.
Milford Quarry Co.
Norcross Bros. Co.
NEW BEDFORD—de la Durantayne, David
Foley, Jno., Court (Cut Contractor)
Jenney & Bludington
McCue, Jno., 6 Smith
Rex, Saml. F. (Cut Contractors)
Sullivan, Jno. B. & Son, Hathaway rd
NEWBURYPORT—Canning, D. (Cut Contractor)
Littlefield, J. & Son (Cut Contractors)
NORTH ADAMS—Meane & Walsh
Whitney Bros., 37 Prospect
PEABODY—Davis & Joy
Linehan, Jas. C.
PITTSFIELD—Kirk & Matthews
Temple Bros.
QUINCY—See Granite Producers & Workers
SALEM—Curtis, Chas. E. & Son
Frankland Marble & Granite Works
O'Rourke Bros.
SPRINGFIELD—Casey & Broderick, 162 Main
Cook, Wm. F. Granite Co., 184 State
Falt, J. P. & Co. (Red Sandstone), Armory
James & Marra (Light Brown Sandstone), 227 Main
McGregory & Casman, 531 Main
Muir, Jas. (Light Brown Sandstone), Bay st.
Short, Chas. J., 40 Dwight
Stone, A. D. & Co. (Light Brown Sandstone), 233 Liberty
TAUNTON—Sullivan, John B. & Son
WALTHAM—Waltham Trap Rock Co.
WEBSTER—Love Bros. (Cut Contractors)
WEST CHELMSFORD—FLETCHER, H. E. & Co. (Cut Granite Contractors, etc.)
(See adv. index, end of book)
Fletcher & Lahey (Cut Contractors, etc.)
WESTFIELD—Westfield Granite & Marble
Westfield Marble & Sandstone Co.
WHITINSVILLE—Blanchard, G. M. (Contractor)
WORCESTER—Bishop, J. W. Co. (Cut Limestone Contractors), 109 Foster
Brosnan, T. (Cut Contractor), 38 Water
Cutting, Geo. H. & Co. (Cutters & Contractors), 11 Foster
Loughlin & Crowley, 35 Crescent
Norcross Brown Stone Co. (East Longmeadow Brownstone), 10 E Worcester
Troy White Granite Co., 71 Shrewsbury
Webb Granite & Construction Co. (Cut Contractors)
Wilson, Martin (Brownstone), 25 Prescott

MICHIGAN.

ALPENA—Fox, Owen (Limestone)
BATTLE CREEK—McNaughton, Angus J.
BAY CITY—Bate, A. & Son (Cut Contractors)
Bay City Stone Co. (Cut Contractors), 8th c Water
BAY PORT—Wallace Stone & Lime Co.
CHEBOYGAN—Pennell Bros.
DETROIT—Batchelder & Wasmund (Cut Contractors), 70 Atwater, E
Beebe, H. A., 1116 Wabash av
Cartwright Bros. (Stone Yard), 418 Guoin
Christa, Philip & Sons (Steam Stone Works), 506 Lafayette av
Christa, Philip & Son (Steam Stone Works), 506 Lafayette av
Cleveland Silex Stone Co. (Silex Stone Walks), Hammond bldg
Gearing Bros. Co. (Cut Contractors), 15th & Bay City M C R R
Gibraltar Quarry Co., Newberry bldg
Griffin, M. J. (Building), 104 Lafferty pl
Houghten, H. (Limestone), Hammond bldg
Little, C. H. Co. (Building, Crushed), 36 For
Meier, H. A. (Cut Contractor), M C Bell Line nr Kerchaval
Michigan Stone & Supply Co. (Crushed Bridge, Flagging, Building, Cut & Saw Mills), c Holden av & M. C. R. R
Ortmann, F. A. & Co. (Cut Contractors Saw Mills), 1099 Wabash av
Piggins, Wm. S., c Leland & Dequindre
Robertson, R. & Co. (Cut Contractors), Hastings & Piquette av.
Smith, John E. (Cut Contractors), c Forest av. & Dequindre
Stefani, Angelo, Greenwood av. c G T Ry Crossing
DOWAGIAC—Edwards & Rutherford (Cut Contractor)
FLINT—Barney Granite & Marble Works
GRAND RAPIDS—Hirth, A. & Co. (Cut Contractors), E. End, G. R. & I. R. R. Bridge
Kent Stone Co.
Hirth, F. H.
Schmidt, Chas. & Bro. (Cut Contractors), 93 Canal
Sunlin, L. F.

GREENVILLE—Wilson, J. L.
GRINDSTONE CITY—Cleveland Stone Co.
HOLLAND—Waveley Stone Co.
HOUGHTON—Jacobs Portage & Redstone Co.
Superior Red Sandstone Co.
IONIA—Anderson Bros.
JACKSON—Iona Stone Co.
KALAMAZOO—Huon, E. T.
Winslow & Crooks (Cut Contractors)
LOWELL—Hamilton, Joseph H.
LUDINGTON—Caswell, H. B. & Son
MANISTEE—Forth, W. J.
Newcombe, R. J. B.
MARQUETTE—Portage Entry Quarries Co.
MENOMINEE—Nowak, F. & Son
MONROE—Monroe Stone Co. (Crushed)
MUSKEGON—Bauer & Beamer
Kanitz, L. H.
PETOSKEY—Petoskey Stone & Lime Co.
PLAINWELL—Wilson & Mann
PORT HURON—Truesdell Marble & Granite Co.
SAGINAW—Hobson & Co. (Cut Contractors), 501 N Tilden
Mohr, Fred. D. (Cut Contractors), 1731
ST. JOSEPH—Marshall, Jas. Genesee
TRAVERSE CITY—Rickard, A. W.
TRENTON—Mans, N. A.

MINNESOTA.

ADRIAN—Shull, J. & W. C.
DULUTH—Duluth Brown Stone Co. (Brown)
Duluth Crushed Stone Co.
Duluth Cut Stone Co. (Cut Contractors)
Duluth Monumental Works
Lake Superior Quarries Co.
Portage Entry Quarries Co.
Portage Red Sandstone Co.
Thompson & Dunlop
Union Portage Entry Stone Co.
FERGUS FALLS—Partridge, Richard
JASPER—Rowe & Staples
KASOTA—Babcock, C. W. & Co. (Rough, Sawed, Planed & Cut)
Breen Stone Co. (Limestone)
MANKATO—Fowler & Pay
Mankato Lime & Stone Co. (Limestone)
Meyer, A. J.
Widell, Gustaf (Bridge Building)
MANTORVILLE—Mantorville Stone Co. (Bridge & Heavy Dimension)
MINNEAPOLIS—Anderson, A. P., University av. bet 2d & 3d aves, N. E.
Anderson, G. A., 2413 23d av, S
Blue Limestone Co., 1259 Central av
Cook Stone Co., 318 3d av, S
Crowley & Brueshaber, 4th bet 8th & 9th avs
Hastings Cut Stone Co. (Cut Contractors), Main c 6th av, S E
Kettle River Quarries Co. (Building, Bridge, Paving, etc.), Oneida blk
Langdon Stone Co. (Building & Dimension), N. Y. Life bldg
Minnesota Crushed Stone Co., 15th av c Johnson
Schultz, L. H. Stone Co., 215 N E Main
Somers, J. B., 1126 N E 4th
Trainer Bros. (Cut Contractors), Boston blk
Twin City Stone Quarry, nr Lake & Marshall av Bridge
Wunder, John Co. Lumber Exchange
RED WING—Lillybald, Gust.
ST. CLOUD—Holes Bros.
Johnson & Barwick
Jones Bros.
St. Cloud Granite Works
Simmers & Campbell
ST. PAUL—Breen Stone Co. (St. Cloud & Kasota Dressed & Undressed), Germania Life bldg
Butler Bros. Construction Co. (Blue, Lime & Heavy Masonry), Globe bldg
Drake Co., Drake blk
Eureka Stone Co., 709 Wabash
Haebe & Marotzke, Goff av & Roble
Larson & Fleming, ft Purnell av
Lauer Bros (Contractors), ft of Chestnut
Lauer, Jacob (Cut Contractors), Stewart av n Victoria
Newman & Hoy (Contractors), Western & Harrison avs
Northwestern Stone Co., 186 W University
St. Paul Stone Co., 533 Wabash av
Schofield, Sylvester, George & Robert
Steinmetz, Jno., Onelda nr St. Clair
Ulmer, Wm. H. (Cut Contractor), Douglass nr Sturgis
Young, Jas. A. & Sons (Cut Contractors), 64 W 7th
SANDSTONE—Kettle River Quarries Co. (Building, Bridge, Paving, etc.)
WINONA—Blesanz Stone Co. (Cut & Rough)
Willis, H. J. (Limestone)

MISSOURI.

BETHANY—Kenyon, J. W.
 BROOKFIELD—Kent, J. V.
 BUTLER—*Day, T. J.
 CARTHAGE—Carthage Building Stone Co.
 *Carthage Marble & White Lime Co. (Limestone & Saw Mill)
 *Carthage Quarry Co. (Limestone & Saw Mill)
 *Carthage Stone Co. (Limestone & Saw Mill)
 *Carthage Superior Limestone Co.
 Long, F. B.
 *Myers Stone Co.
 *Spring River Stone Co.
 *Vierinow-Meyenberg Quarry & Cut Stone Co.
 COLUMBIA—Farley, E.
 DE SOTO—Herman, Otto (Cut)
 DE WITT—*Carroll County Stone Co.
 FARMINGTON—Spaugh, Mrs. E. L.
 FULTON—Dunkleburg, E.
 HANNIBAL—*Hannibal Lime Co. (White Limestone)
 JEFFERSON CITY—*Kolkmeier, W. H. & Co. (Dimension, eac.)
 Vetter, Frank J.
 Zuber, Victor
 JOPLIN—*Myers Stone Co. (Building & Cut Stone)
 KANSAS CITY—Bremer Cut Stone Co., 23d & Central
 Carthage Stone Yard, Harrison & 20th
 Forester Bros. Stone Co., B'way & 24th
 Ingram Stone Co., New Ridge bldg
 Lyle, M. V., 2528 Grand av
 O'Connor, Thos., 2834 Holly
 Phenix Cut Stone Co., 1901 Olive
 *Samuel & Holmes Construction Co., Kemper bldg
 Sutermeister, Arnold (Cut Contractor), 21st c Main
 Sutherland Stone Co., Postal Tel bldg
 LOUISIANA—*Crystal Carbonite Lime Co. (Rip ray, etc.)
 ST. JOSEPH—Abercrombie Stone Co., 4th & Angeliue
 Maler, Sebastian, 11th & Garfield av
 *Pfeiffer Stone Co. (Cut Contractor), 4th & Schall, Chas, 1405 Frederick av
 *Silverdale Stone Co., 624 S 4th
 ST. LOUIS—*Algonite Stone Mfg. Co., 512 S 23d
 *Atlantic Quarry & Cons. Co., 319 N 4th
 Bambrick-Bates Construction Co., Century
 *Bickel, Conrad, 3540 La Salle. bldg.
 Bruce, Geo. F. (Cut Stone Contractor), 2221 Rutger
 *Carthage Consolidated Quarry Co., 3535 Gratlot
 *Carthage Marble & White Lime Co. (General Dealers), Walnwright bldg
 Carthage Stone Co. (Cut Contractors) c. Theresa av & Gratiot
 *Eyermaun, G., Jr., & Bro., 216 S Grand av
 *Fruin-Bambrick Construction Co., 721 Olive
 *Grafton Quarry Co. (Sandstone), Carleton bldg
 *Gruetzemacher, Henry F. & Co. (Cut Contractors), Wainwright bldg
 Haller Bros., 4733 S B'way
 *Heman Construction Co., Fullerton bldg
 *Hill-O'Meara Const. Co. (Limestone), Wainwright bldg
 *Hogan, Michael A., 3617 Cook av
 Lenz, Philip H. (Est.) (Cut Contractor), 614 Chestnut
 Lohrum, Mrs. J. A., 4000 S Main
 Missouri Cut Stone Co. (Cut Contractors), 3500 Gratlot
 *Mound City Construction Co., Lincoln Trust bldg
 *Perkinson Bros. Construction Co., 4443 N B'way
 *Phenix Quarries Co., Boyle av & Wabash R. R.
 Pickel, Geo. & Sons (Cut Contractors), 2015 Gratiot
 Pickel Stone Co. (Sawing & Cutting), 1320 Old Manchester rd
 Relth, Jos., 2120 Dolman
 Reitz & Bro., Clayton av & S Newstead av
 Ruecking, H. & Co., Marine av nr Gasconade
 St. Louis Cut Stone Co. (Sawing & Cutting), 3537 Gratlot
 *St. Louis Stone Masons' Quarry & Building Ass'n, c Theresa & Hickory
 Skrainka Construction Co. (Limestone), 319 N 4th
 Stifel, Phillip F. (Limestone), 2324 Kosciuszko
 Taylor Bros. (Cut Contractors), Boyle av, c Wabash R R

*Thompson & Gray Quarry Co. (Rubble, Dimensions, Sawed & Bridge), 202 Wainwright bldg
 Thym Cut Stone Co. (Cut Stone), 1316 Dolman
 Viernow-Maysenburg Quarry & Cut Stone Co., 810 Olive
 Voss & Korte, 3500 N 25th
 Wall, Richard B., 2707 Arlington av
 Widdicombe, E. H. (Cut Contractor), 816 Olive
 WARRENSBURG—*Bruce, Lawrence (Blue Farley Bros. Sandstone)

MONTANA.

BUTTE—Walker, E. E.
 Winters, Parsons & Boomer
 GREAT FALLS—Roberts, Wm.
 HELENA—Prescott, A. K. (Cut Contractors)
 Smith, O. F.

NEBRASKA.

BEATRICE—Beatrice Marble Works
 BLUE SPRINGS—*Davis, Geo. (Crushed, etc.)
 CEDAR CREEK—Atwood, S. H. & Co.
 GRAND ISLAND—Palne, I. T. & Co.
 Scheffel, Wm.
 LINCOLN—Barwick, J. S.
 Bush, P. H. & Co.
 Forburger & Speidell (Cut Contractors), c 11th & W
 Lincoln Marble & Granite Works
 Trestler Lumber, Coal & Ice Co. (Dealers)
 Young, R. S. Building Supply Co. (Dealers)
 OMAHA—Bloom, J. F. & Co., 1815 Farnam
 *Murphy, Hugh (Red Sand), Bee bldg
 Schall, A. & Co. (Cut Contractors), 511 Jones
 SIDNEY—Sidney Stone Co.

NEW HAMPSHIRE.

CLAREMONT—Messer, Richard (Cut Contractor), Pleasant st
 CONCORD—See Granite Producers, Workers & Dealers
 CONWAY—*Fletcher & Lahey (Cut Contractors, etc.)
 *Fletcher, H. E. & Co. (Cut Contractors, etc.)
 DOVER—*Abbott, Saml. B.
 MADISON—*Fletcher & Lahey (Cut Contractors, etc.)
 *Fletcher, H. E. & Co. (Cut Contractors, etc.)
 MANCHESTER—See Granite Producers, Workers & Dealers
 MILFORD—See Granite Producers, Workers & Dealers
 NASHUA—Cummings, Chas. E. & Son
 Fuller, T. D.
 Mulvanity, Thos.
 PIKE STATION—*Pike Mfg. Co. (Oil, Scythe & Emery Stones, etc.)
 Tetrault, Adolph J.
 ROCHESTER—Smalley & White
 WEST CONCORD—See Concord Granite Producers, Workers & Dealers

NEW JERSEY.

AFBURY PARK—Clayton & Sons (Artificial)
 Rothfritz, R. E. K. (Blue)
 AVONDALE—*Barr, Andrew
 BAYONNE—Brady, Jas., 42 E 1st
 BRIDGETON—Applegate, M. W. (Contractor)
 Ogden & Platt
 Shaw, Wm. R.
 BURLINGTON—Rigg, Edw., Jr.
 CALIFON—*Califon Limestone Co.
 CAMDEN—Justice, J. S. & Co.
 McWhirter Cut Stone Co.
 DUNELLEN—Garretson & Gray (Crushed)
 ELIZABETH—Clark, A. L. Stone Co. (Blue)
 McGhee, Geo. & Son
 Marron Bros.
 ENGLEWOOD—Thompson, Jos. & Son (Cut Contractors)
 GUTTENBURG—*Clinton Point Stone Co.
 HACKENSACK—Long, F. R. Co.
 Mabie, Elmer
 Moriarity Bros.
 HARRISON—(See Newark.)
 HOBOKEN—Barr, Thaw & Frazer (Cut Contractors), 13th & Adams
 Birch, Thos. E. (Blue), Willow av nr 16th
 Couch, Thos., 15th & Grand
 HOPEWELL—*Cone, J. S.
 JERSEY CITY—English, Jno., 412 Grand
 Pearls, Wm. (Blue), Paterson Plk rd nr W. Shore R. R.
 Houlihan, Lawrence (Blue), Jersey av c 17th
 Muirhead, Robt. (Blue), 1st & Provost

Prigge, Henry, 550 Germania av
 Shanley, B. M. & J. F. Co. (Heavy Masonry) 26 Exchange pl
 Standard Blue Stone Co., 239 Wash'n
 Stockton Stone Co., 26 Exchange pl
 Taglibue, August & Co., 11 Poplar
 Union Stone Co. (Blue, etc.), 256 Brunswick
 Venango Stone Co., 550 Germania av
 LONG BRANCH—Clark & Whalen
 Malchow, R. & Son
 MATAWAN—Lupton Bros. (Monumental & MILLVILLE—Cory, Charles F. Flag)
 MONTCLAIR—Espy, Jno.
 Wood, Thomas
 MORRISTOWN—Dalrymple-Hastings Co. (Cut Ennis, C. W. & Co. (Blue, etc.) Stone)
 Morris County Crushed Stone Co.
 NEWARK—Boyle, Thos. & Co. (Cut Contractor), 174 Riverside av
 Brown, Geo. & Co. (Cut Contractors), 270 Passaic
 Brown & Rushing Co., 2 Passaic
 Clark, Jacob Stone Co. (Blue), 204 Ogden
 Cook & Genung Co., 16 Jersey
 Gerberich, Bernard, 180 Rldge
 Harper, David (Blue), Harrison
 Hoerner, H. J. & Sons (Cut Contractors),
 Kisling, Edw. J., 184 Elm Lister av
 Monaghan Stone Co., Plum Point rd
 *Newark Blue Stone Co. (Blue), 120 Passaic
 Powers & McGowan (Cut Contractors), 470 S Orange av
 Reilly, Jno. E. Stone Co., 10 Riverside av
 Sayre, Marcus Co., adj Centre st
 Schreitmueeller, Henry (Cut Contractor),
 Waverly & Jeliff aves
 *Shanley, B. M. & J. F. Co. (Heavy Masonry), 859 Broad
 Snyder, Frank W. (Flagging, etc.), 12 N Grove av
 Spurr, J. J. & Sons (Cut Contractors), ft Warren dock, Harrison
 Tomkins Bros. (Crushed), 78 Passaic
 Van Keuren & Son (Crushed, etc.), 401 Passaic av, E. N.
 Whltman, Jno. (Curbing, Flagging, etc.), 157 Summer av
 Woodward, A. H. & Co. (Blue and Cut), 120 Passaic
 Young, R. & Son, 9 Grafton av
 NEW BRUNSWICK—Cole, Thos. C. (Cut Contractor), 216 Suydam
 Mooney, Hugh J.
 ORANGE—*Spottswoode, George & Co.
 PASSAIC—Fogerty, D. & Son
 PATERSON—McKlernan & Bergin (Crushed, Paving & Building), 1st Nat'l Bank bldg
 PERTH AMBOY—Wilbert, Charles E.
 PLAINFIELD—Bartle, Wm. E. (Building)
 Lannon, John (Blue)
 Manning, L. L. & Son
 Smalley Bros. (Crushed)
 RIDGEFIELD—*Heisenbuttle, C (White, Foundation & Building Stone)
 RIVERSIDE—Mitsch, Chas.
 ROCKY HILL—*Rocky Hill Stone Storage Co. (Crushed & Paving Blocks)
 SCOTCH PLAINS—Hatfield & Weldon
 SOMERVILLE—Sargeant Bros. (Flagging)
 STOCKTON—*Eastburn, Chas. T. & Co.
 *WEDESBORO—Hannold, W. H. & Sons
 TOWN OF UNION—(See Weehawken)
 TRENTON—Epele, F. J. (Blue), 430 Perry
 Hutchinson, T. A. & S. R., Breunig av nr Mead
 McDonald, Alex Co., 862 Centre
 Prior, T. H. & Sons (Cut Contractors),
 Muirheid ab Ott
 *Richardson, Jos. B. & Sons (Dealers), 120 S Stockton
 Richardson, Percy B., 26 Commerce
 Swayze, H. M. & Son, 26 S Stockton
 VINELAND—Kimball & Prince Lumber Co.
 WEST ORANGE—*O'Rourke, John
 WOODBURY—Snclbaker Bros.

NEW YORK.

ALBANY—Albany County Blue Stone Co., 2 Yates
 Apple & Schottenham, 420 Wash'n av
 Brooksby, Charles (Cut Contractor), 245 Hudson av
 Flagler & Pommer (Cut Contractor), 2 Yates
 Flint Hill Stone & Cons. Co., 37 Maiden la
 Gazley & Moffitt, 505 S Pearl
 Hungerford, I. J., De Graaf bldg
 Hyslop, Alex. M., c Quail & West
 Little & Bransfield, Bridge c Mill
 McClellan, John (Blue), 311 B'way
 Nolan & Donnelly (Cut Stone), 4th av & Church
 Redmond & McDonough, 57 Morris
 Zeiser, Jno., 525 S Pearl

ALBION—*Brady, Gilbert
 *De Graff & Roberts, Eagle Harbor
 *Reed, Allen & Reed
 *Ryan, M. A.
 *Skinner, E. D.
 ALLABEN—Ulster & Delaware Bluestone Co.
 AMSTERDAM—Hennessey, Wm. E.
 Messenger, Chas. G.
 AUBURN—*Goodrich, C. E.
 Robinson Monument Co.
 BIGELOW—*Williams, Chas. & Co. (Lime-
 stone & Flax)
 BINGHAMTON—Ingalls Stone Co. (Steam Cut
 Stone Works)
 BROOKLYN—(See New York City, Borough of
 Brooklyn)
 BUFFALO—Akron Stone Co., D. S. Morgan
 bldg
 Appenheimer, Jno. L., Fillmore & Appen-
 heimer aves
 Ball & Wittig (Cut & Flagging), North e
 Ellicott
 *BUFFALO CEMENT CO. (Ltd.)
 (Building, Dimensions & Cut), 110 Frank-
 lin
 *Buffalo Crushed Stone Co. (Crushed, Bal-
 last Stone, etc.), Ellicott sq
 Carroll Bros. (Blue, etc.), 490 Ellicott sq
 *Cutter & Bailey (Building Stone), 143
 Dehn, C., c Louisiana & Perry Wash
 Empire Limestone Co., 4th & Virginia
 *Gehres, Anna, 1968 Fillmore av
 Hartke, Henry, Perry cor. Louisiana
 Kehr, A. P. (Cut Stone & Flagging), ft
 Church
 *McDonnell & Sons (Cut Contractors), 858
 Main
 Maltby, Geo. W. & Sons (Cut & Flagging),
 21 Maryland
 *Medina Quarry Co., 9 Bldrs Exch
 Orleans County Quarry Co., 10 Maryland
 Reeb, M. A., 599 Michigan
 *Schreier & Sebastian, 1855 Fillmore ov
 Star Cut Stone Co., 215 Oak
 CALLICOON DEPOT—*Persbacher, Val
 CATSKILL—*Holdridge, Geo. W. & Son
 CHAUMONT—*Adams & Duford Co.
 COEYMANS—*Briggs, Jno. W.
 CORTLAND—Beers & Warfield
 DEPOSIT—Deposit Granite & Marble Works
 DORBS FERRY—Besson & Co.
 DUNKIRK—Atlas Builders Supply Co.
 EAST AURORA—Griggs & Ball (Flagging)
 ELMIRA—Chas. A. (Cut Contractor)
 *Costello & Neagle (Limestone)
 Yenger, B. (Cut Contractor), E Church
 EVERGREEN—(See New York City, Borough of
 Queens)
 FISH EDDY—Nevins, Jas. & Sons
 FLUSHING—(See New York City, Borough of
 Queens)
 FORT PLAIN—Selwood, Frank J.
 FREDONIA—*Forbes, Geo.
 GLENS FALLS—Finch, Pruyn & Co. (Dealers)
 McHugh, Jas. H.
 Thomas, Andw.
 GLOVERSVILLE—Adirondack Stone Co.
 *Edel, Jno.
 Hunter & Son
 Starr, Z. B. (Cut, etc.)
 GOUVERNEUR—Empire Marble Co.
 Gouverneur Marble Co.
 Northern Crushed Stone Co. (Crushed)
 GRANVILLE—*O'Brien Bros.
 GREEN ISLAND—Kelly, E. & Co.
 HALE EDDY—*Begel, Grant
 *Kingsbury, O. M.
 Travis & Kingsbury (Blue stone)
 HANCOCK—Kazenstine, Geo. W. (Bluestone)
 *Kirkpatrick Bros.
 *Randall Bros.
 HANKINS—*Manny, Anthony (Blue)
 HIGHLAND FALLS—Muller Bros. (Blue)
 HOLLEY—*Farrand, Wm. H.
 HONEOYE FALLS—Harris, Dennis
 Hart, Frank J.
 HOOSICK FALLS—Hocter Bros.
 HORNELLVILLE—Babeock, W. W. & Co.
 Drakford, W. E.
 HUDSON—Hocter & Son
 HULBURTON—*Ford, A. B.
 *Squire, A. R.
 HUNTINGTON—Lockwood, H. & E.
 ITHACA—*McClune, G. C.
 Storms, J. B.
 JAMAICA—(See New York City, Borough of
 Queens)
 JAMESTOWN—Ackroyd, Henry & Son (Cut
 Contractors)
 *Jamestown Shale Paving Brick Co.
 Pearl City Stone Co. (Cut Stone)
 KINGSTON—Hudson River Blue Stone Co.
 (Blue)
 Hudson River Blue Stone Co. (Blue)
 Kent, W. J.
 Luther, Fred'k P.

LE ROY—*Heimlech & Murray
 Keeney, N. B. & Son
 *Stefani Bros.
 LOCKPORT—Bendinger, L.
 Crowe, Michael J. (Building)
 Stalnthorpe, C. N. & Co. (Building)
 *Whitmore, C. B. Mrs. (Sandstone)
 LONG EDDY—Fritz, Jno. & Son (Bluestone)
 *Kenny Bros.
 *Peak, Cyrus (Bluestone)
 LONG ISLAND CITY—(See New York City,
 Borough of Queens)
 MAMARONECK—Brewer, R. G. (Flagging)
 Moffat, L. (Blue)
 MECHANICSVILLE—Hoskins, C. E. (Flagging,
 etc.)
 *Horan, Jno.
 MIDDLETOWN—Wagar, David P. (Blue)
 Johnson, Peter M. (Blue, Dealer)
 MOUNT KISCO—Gorham, D. F.
 MOUNT VERNON—Dooling & Kenlon (Deal-
 ers)
 Smith, Sam'l F.
 NARROWSBURG—*Partridge, Jere (Blue-
 stone)
 NEW BALTIMORE—Fuller's, Wm. Sons
 NEW BRIGHTON—(See New York City, Bor-
 ough of Richmond)
 NEWBURGH—Crawford, Wm. (Est. of) (Pa.
 Blue & Free Stone), 22 Lauder
 Dwyer & Sager (Blue & Flagging), 225
 Forson & Ross, 99 Front B'way
 Fletcher, Wm. F. (Cut Contractor & Pol-
 ishing), 131 B'way
 Fuller, W. (Stone, Flagging, etc.), 65
 Renwick
 *Harrison, John J. E. (Dimension)
 *Miller, D. C. (Crushed & Building), 258
 Miller, Geo. W., 258 B'way B'way
 NEW PALTZ—*Hasbrouck, J. J. & Co. (Buhr
 Stones)
 NEW ROCHELLE—Mahlstedt, J. A. Lumber &
 Coal Co.
 New Rochelle Coal & Lumber Co. (Flagging,
 etc.)

NEW YORK CITY. Borough of Brooklyn.

BROOKLYN—Baird, A. D. & Co. (Cut Con-
 tractors), Wythe av c Keap
 Baird, Andrew R. (Cut Stone Contractor),
 36 Hooper
 Booth, Jas. F. (Blue), N. Y. av
 Bradley, Wm. & Son (Cut), 225 Nevins
 Brown, David (Cut Contractors), 60 9th
 Burns, John (Blue), 186 6th
 Christmas, Theo. G. (Cut Contractors), 27
 Heyward
 Clark, Edw. Blue Stone Co., cor 4th av
 & 2d
 Dean, Thos. & Co. (Cut Contractors), 141 3d
 Gabriel, Wm. (Brown), 109 Knickerbocker av
 Heinlein, John Cut Stone Co. (Cut Con-
 tractor), 555 President
 Johnson, Patrick J. (Blue), 341 Butler
 McLaren, Jas. & Son (Cut Contractor),
 Court & Bay
 Moore, Michael (Blue), Bay 19th nr Ben-
 son av
 Moran, John W. (Estate of) (Blue), Hamil-
 ton av & Hicks
 Mouter, Geo. & Co. (Cut Contractors), 21
 Varick av
 Putnam, W. K. Co. (Blue), 5123 3d av
 Rankin & Ross (Cut Contractors), 372 Car-
 roll
 Ross, Wm. S. (Cut Contractors), 254 Douglas
 Ryan, N. Co., 491 Smlth
 Trudden, M. (Blue), Van Sindren av
 Van Hovenburgh, C. & Co. (Blue), ft Free-
 man

Boroughs of Manhattan & Bronx

NEW YORK—Altieri & Sons, 610 Wales av
 *BEDFORD QUARRIES CO. (Blue
 & Buff, Oolitic, Ind., Limestone), 1 Madi-
 son av. Quarries & Mills: Oolitic, Ind.
 (See adv. on front cover)
 Best, Jno. (Blue), 520 E 80th
 Binswanger, H. P. Co. (Inc.) (Granite,
 Stone & Marble Importers & Wholesale
 Dealers), 3 W 29th
 Bradley, Wm. & Son, 277 B'way
 Brown, Geo. & Co. (Cut), 1123 B'way
 Builders' Stone Contracting Co. (Brown,
 etc.), Unionport
 Caggiano & Carlucci, Canal av & 135th
 *Clinton Point Stone Co. (Crushed Stone,
 etc.), 170 B'way
 Cohen, Michael (Freestone, etc.), 1133
 B'way
 Cosgrove Bros. (Cut Contractors), 57th
 & N R

Cullen, Jno. & Co. (Cut & Free Contrac-
 tors), 2097 1st av
 Donovan, Jno. J. (Crushed Building), 203
 B'way
 Doyle, Geo. & Co. (Indiana Limestone), 287
 4th av
 Dunn, Bartolomew (Blue Stone Contractor),
 440 E 68th
 FLEMING & CO., 123 Liberty. (See
 adv. index, end of book)
 Flogans, G. M. & Co., 483 E 138th
 Poland, Peter (Blue), E 135th nr Park av
 Gentile, Michael, E 140th nr Rider av
 Hanlein, Henry & Son (Cut Contractors),
 417 E 103d
 Henry, M. C. & Co. (Steam Stone Works,
 Free Stone & Marble, Cut Contractors),
 403 E 104th
 Hudson River Blue Stone Co. (Blue Stone,
 Wholesale), 280 B'way
 Hutchinson, John & Son (Cut Contractors),
 2353 1st av
 *Kirkpatrick Bros. (Blue Stone, Wholesale),
 258 B'way
 Lenahan, Bernard J., 293 Rider av
 Liddle, Jno. & Co. (Cut), 402 E 107th
 Lodge, Martin P. (Blue, Contractor), 532
 W 44th
 McCarthy, J. & Co., 535 W 48th
 Marine, Arlando (Wholesale Dealers in
 Freestone & Marble), 7 E 42d
 *Maxwell's, Jno. Son (Blue Stone (Whole-
 sale), 51 Chambers
 Metropolitan Stone Co. (Artificial Building
 Stone), 1 Madison av
 Meyers, Augustus (Cut Blue), 542 W 21st
 New York Cut Stone Co., 5 E 42d
 Norcross Bros. & Co., 160 5th av. (Quarry-
 men and General Contractors in Granite,
 Marble & Stone; Large Structures a Spe-
 cialty)
 O'Connell, Michael (Blue Stone Contractor),
 537 W 40th
 Oethinger, Dannemann & Kupka (Cut Con-
 tractors), Walnut av nr E 139th
 OHIO QUARRIES CO. (Blue & Buff,
 Ohio Sandstone, Sawed Stone a Spe-
 cialty), 1 Madison av, Quarries & Mills,
 Amherst, O. (See adv. index, end of book)
 Penney & Bunt, 132d & Willow av
 PICTON ISLAND RED GRANITE
 Co. (Pink & Red Granite), 320 5th av.
 (See adv. index, end of book)
 Scully, Jno. H. (Bluestone Contractor), 431
 E 101st
 Seus, Rudolf (Cut Contractor), 406 E 109th
 Sherwood, G. P. & Co. (Wholesale Dealers,
 all Kinds), 1123 B'way
 *Sinclair, Jas. & Co. (Cut Contractors),
 413 E 29th
 Smith's, Jno. R. Son (Cut Contractors), ft
 E 103d
 Stockinger, Jacob (Blue), 332 E 64th
 Sweeney, Peter B. (Blue), 206 B'way
 Underwood, C. R. (Blue), 280 B'way
 Vesey, Jno. (Blue Contractor), 1121 1st av
 Williams, B. A. & G. N. (Cut Contract-
 ors), 5 E 42d
 Woodward, C. F. Co. (Freestone), 1123
 B'way
 Young, Jas. H. Stone Co. (Cut Contractor),
 E 136th & Locust av

Borough of Queens.

EVERGREEN—Breitenbach & Ruppenstein.
 LONG ISLAND CITY—Cail, Geo. & Co. (Cut
 Contractors), Vernon av & 11th
 Gillies, Jas. & Sons (Cut Contractors), Ver-
 non av n 14th
 Harris & Hoeft (Blue), West av & Flushing
 Kearns Bros., 211 Greenpoint av.
 McWhirter, W. H. Co. (Cut Contractors)
 Miller's, Edwin Sons (Cut Contractors),
 Boulevard & Bodine
 Morrison, David G. (Cut Contractor), 373
 Vernon av
 Williams, B. A. & G. N. (Cut Contract-
 ors), Mill & Orchard, Astoria

Borough of Richmond.

NEW BRIGHTON—Hart, P. & Son
 PORT RICHMOND—Buel, Horace E.
 TOMPKINSVILLE—Feist, Karl (Cut Contrac-
 tor)
 (END OF NEW YORK CITY)
 NIAGARA FALLS—Gray & Trigg
 Lennon, Jno. Son & Co.
 NYACK—*Nyack Trap Rock Co. (Trap Rock)
 OLEAN—Foley Bros. Co.
 McDowell, C. B.

ONEONTA—Dauley & Wright
Ingalls Stone Co.
OSWEGO—Farwell, J. B. & Co. (Dealers)
OXFORD—Clarke, F. G. Bluestone Co. (Blue)
PATCHOGUE—Bailey, E. & Sons
PHOENICIA—McGrath, Jno. L.
PLATTSBURG—Heath, E. H. (Cut Stone)
POND EDDY—Maxwell, C. W. & Co. (Blue)
PORTAGEVILLE—Genesee Valley Blue Stone Co. (Blue)
PORT CHESTER—Kidder, J. W. & Co.
Merritt, H. A.
Ryan, W. Co. (Bluestone)
PORT JERVIS—Aber, Austin (Blue)
Bennett, Jno. E.
Nearpass, Wm. J.
PORT RICHMOND—(See New York City, Borough of Richmond)
POTSDAM—Potsdam Red Sandstone Co. (Sandstone)
Watson & Scager
POUGKEEPSIE—Joy, Walter A.
Seamon, Thomas H.
RAVENSWOOD—(See Long Island City)
ROCHESTER—Brayer & Albaugh, 27 Main, E
Brown, Henry S., 334 Hudson av
Carson, Wm. C. H. (Cut Contractors), 54
Plymouth av
Foery & Kastner, N Goodman & Central
Park
Lauer & Hagaman (Cut Contractors), 458 S
Clinton av
Oliver, H. T. (Cut Contractors), 328 South av
Whitmore, Rauber & Vicinus (Cut Contractors), 279 South av
ROCK GLEN—Bluestone Co.
ROCKLAND LAKE—Clinton Point Stone Co.
Rockland Lake Trap Rock Co.
RONDOUT—(See Kingston)
ROSCOE—Shaw, Herbert
SAUGERTIES—Lewis, Ira (Dealer)
Maxwell's, Jno. & Son (Blue)
SCHENECTADY—Crane & Vedeer, 414 Van
Guysling av
Kellam & Shaffer (Cut Contractors)
Klumm, Andrew, 119 Park pl
Shear, A. & Co. (Crushed & Dimension),
37 S Centre
SODUS CENTER—Mather, E. B. (& Crushed),
201 W Onondaga
SYRACUSE—Arnold, Conrad, 903 Montg'y
Britton, Israel E. (Building & Flagging),
186 E Brighton av
Crabtree, Jno. & Son (Cut Contractors &
Flagging), 417 Burt
Esser, J. C. (Cut Contractors), 920 S Salina
Nics, Adam F. (Flagging Yard), 337 W
Jefferson
Orleans Sand Stone Co., 438 S Salina
Stack, Robt., Bellevue & Avery avs
Thomas, Chas., 1103 S State
TARRYTOWN—Dinkel & Jewell Co. (Blue &
Sackett, S. J. (Est.) Building)
TOMPKINS COVE—Tompkins Cove Stone Co.
TOMPKINSVILLE—(See New York City, Borough of Richmond)
TROY—Grant, Chas. M. (Freestone), c Cemetery
7th avs
Kelley, E. & Co. (Cut & Flagging), Green
Island
Lee, Jas. F. (Cut & Blue), Smith av nr
River
McQuide, John, 13th & 4th av, Lans
Pownal Stone Co. (Crushed), State Bank
bldg
Ross, Adams & Son (Cut Contractors), 2748
Young, Wm. H., Jr., 330 8th 6th av
Young's Sons & Co., 177 3d
TUSTEN—Clark, M. T.
UTICA—Allen, B. & Sons (Flagging), South
c Hammond av
Central Stone Co., 205 N Genesee
Conley, F. E. Stone Co. (Blue & Crushed),
Park av c Jay
Cromie & McMullen (Flagging), 59 Roberts
Fuller's Electric Cut Stone Works, Sunset av
ft of Kirkland
Godfrey, E. C. (Cut, Contractors), 144 Albany
McNierney Bros. (Flagging & Cut Contractors), 38 Erie
Martin, Jno., 30 Huntington
Stobener, Wm., 132 Columbia
VERPLANK—Clinton Point Stone Co.
VOORHEESVILLE—Cummings Bros. (Blue)
WARSAW—American Blue Stone Co.
Hanigan, Jno. & Son
Warsaw Blue Stone Co.
WATERLOO—Thomas Bros.
WATERLIFT—Hughan, Jas. E. (Cut Contractors),
Watkins—Hoare, Geo. E. & Co. (tractor)
YONKERS—Corkery, Jno. J. (Blue), 169 Riverdale av
Hackett, F. J., Midland av
Kellock, Campbell & Kellock (Blue), ft of
O'Rourke Bros. Ashburton av

NORTH CAROLINA.

ASHEVILLE—Balfour Quarry Co.
CHARLOTTE—Durham, I. W.
Ward, W. W. & Son (Dealers)
GREYSTONE—Linehan, P. & Sons
Linehan, Bourke & Co.
HICKORY—Elliott, Jos. D.
Harris, R. K. & Son
SALISBURY—Carolina Marble & Graulte Co.
Rowan Granite Co.
Salisbury Granite Co.
SANFORD—Carrington-Gonella Stone Co.
(Brown Stone & Steam Stone Works)
Davis, G. A.
WILMINGTON—Hanby, John H.
Tucker, H. A. & Bro. (Cut Contractor)
WINSTON SALEM—Bennett Bros.
McGalliard, C. A. & Son (Stone Cutters)

OHIO.

AKRON—Akron Supply Co. (Dealers)
Crisp, Geo. & Son (Building, etc.), nr
Crumrine, M. H. Erie Depot
Schuler, Chas.
ALLIANCE—Devine, J. C.
Hudson, C. E. (Flagging, etc.)
Tullis, Ira T. (Flagging)
AMHERST—OHIO QUARRIES CO. (Buff
& Blue Ohio Sandstone, Sawed Stone a
Specialty). (See adv. index, end of book)
ASHTABULA—Robinson, M. C. & Co.
Smith, Wm. & Son
BEACH CITY—Winfield Bros. & Co.
BELLEFONTAINE—Bellefontaine Stone &
Lime Co. (Crushed, Ballast, etc.)
Patterson, W. T. & Son
BELLEVUE—Bellevue Stone Co. (Crushed,
etc)
Crystal Rock Stone Co.
BEREA—Middleburg Stone Co.
BERLIN HEIGHTS—Baillie Stone Co.
BLUFFTON—Siddall, L. J.
BOONVILLE—France Co. (Crushed, etc)
BOWLING GREEN—Braden, J. L.
Mercer Stone Co. (Crushed, etc)
BUCYRUS—Broken Sword Stone Co.
Leesville Stone Co.
CAMBRIDGE—Pyles, Thos. (Flagging)
CANTON—Bauhof Bros.
Lang, E. D.
CAREY—National Lime & Stone Co. (Crushed,
etc)
WYTHAGE—Wiehle, F. E.
CINCINNATI—Agness, Jas. W., Builders' &
Traders' Exch
cor 9th & John
Ashman, A. B. & Co. (Osgood Limestone),
Bauer, Jno. G., Quebec rd n Liberty
Big Four Stone Co., Builders' & Traders'
Exch
Buckeye Marble & Freestone Co. (Cut
Contractors), 3d & Eggleston av
Buena Vista Freestone Co. (Freestone),
Mitchell bldg
Buente, Louis C. (Stone Yard), 3664 Spring
Grove
Buetsche Bros., Wine Press rd nr Tuscu-
caden, Otto, Mitchell bldg. lum av
Connecticut Brown Stone Co., Johnston
bldg
Consolidated Stone Co. (of Chicago),
Johnston bldg
Dugan, Richard, 2653 Liddell
Enterprise Stone & Granite Co., Reading
Glandorf, C. H., 8th & Plum rd
Graft, Jos., Hopple n Casper
Gravesen, Wm., Symmes nr Montg'y rd
Hall, Thos. J., ft Vine
Hazen Stone Co., 1010 Reading rd
Hillsboro Stone Co., Bldrs' & Traders'
Ex
Hollensbe Stone Co. (of Newport, Ind.),
Bldrs' & Traders' Ex
Holley, C. E. (Freestone & Sandstone),
Johnston bldg
Hummel, David Building Co. (Cut Contractors),
2629 Spring Grove av
Huntington & St. Louis Tow Boat Co.
(Dealers), ft of Lawrence
Indiana & Ohio Stone Co., Johnston bldg
Kemper, Joseph, Purcell av n Murdock av
Kentucky Freestone Co., Inc. (Blue, Buff
Olive Rockcastle Stone), 2629 Spring
Grove av. Mills, Laugford, Ky.
Kentucky-Rockcastle Stone Co., Bldrs' &
Traders' Ex
Lang, C. & Co. (Stone Yard), 416 Wood-
ward
Lewis & Talbot Stone Co., Johnston bldg
McClure, T. F. & Sons Co. (Dealers), 43
Perlin bldg
McDermott Stone Co., Builders' & Traders'
Exch
McDonald, Charles (Cut Contractor), 1223
Sberman av

Mersch's, Frank Sons, 1548 Freeman av
Moore's Lime Co. (Limestone), Union
Trust bldg
Newton & Utter, Johnston bldg
Ohio River Stone Co. (Crushed, etc.), 341
Raff, Allan Ross, Mitchell River York
Ridgway, J. B. (Indiana Flat Rock),
Grand Opera House bldg
Rockcastle Stone Co. (Blue, Buff & Gray),
414 E 8th
Rucker Stone Co., Bldrs' & Traders' Ex
St. Paul Stone Quarries Co., 411 Johnston
bldg
Scully Construction Co. (Contractors), 2
Builders' & Traders' Exchge
Seurlg, Adolph (Quarry), Camerou av n El-
beron av
Spitzmueller, Anthony, 1405 Ernst
Spitzmueller, L. & J., 2238 Amor pl
Stagge, Hy. & Sons, Madisou rd n Beech-
wood av
Thomas, Warren, Bodley av n Mt. Hope av
Thornton, H. L., Johnston bldg
Wagner Bros., 1503 Race
Ware, J. R. & Co., 19 E Water
Wellman, Henry B., Madison rd & Beech-
wood av
West End Freestone & Lime Stone Works,
1051 Flint
CLEVELAND—BEDFORD QUARRIES
Co. (Blue & Buff Oolitic Ind. Lime-
stone), 818 Euclid av. Quarries & Mills,
Oolitic, Ind. (See adv. on front cover)
Bedford Stone Co., Rockefeller bldg
Bennett, Samuel, 3 Webb ter
Brainard, A. W., 134 Poce
Brennan, Jno. F., The Arcade
Burgess, Clarence H. (Crushed), 241 Eu-
clid av
Caine, W. H. (Sandstone), 2855 B'way
Carabelli, Jos. (Contractor), Euclid av opp
Lake View Cemetery
Cleveland Stone Co. (Sandstone, Blue,
Buff, etc.), Hickok bldg
Columbia Stone Co., Soc. for Sav. bldg
Dean, Jno. E., 931 Kinsman
Elyria Stone Co., 80 Columbus
Euclid Stone Co., Garfield bldg
Forest City Stone Co. (Sandstone), 592 The
Arcade
Gale & Newcomb, Quarries So Euclid, O.
Garfield, Thomas C., 1646 Harvard
Gerhard, Thos. S., 236 Superior
Holland, John, The Arcade
Independence Stone Co., Amer. Trust bldg
Independent Stone Co. (Blue, Buff, etc.),
Cuyohoga bldg
Malone Stone Co. (Sandstone, Blue, Buff,
etc.), Garfield bldg
Maxwell-Rolff Stone Co., 337 The Arcade
Neff, Harry A., 1975 Doan
Norcross Co., 269 W River
Northern Ohio Paving & Construction Co.,
The Arcade
Ohio Litholite Co., 1021 Prospect, S E
OHIO QUARRIES CO. (Blue &
Buff, Ohio Sandstone, Sawed Stone a Spe-
cialty), 818 Euclid av. Quarries & Mills,
Amherst, O. (See adv. index, end of book)
Portage Entry Quarries Co., 713 Garfield
bldg
Spence Bros. (Crushed Limestone & Trap
rock), 2923 Euclid av
Turner, A. W., 80 Columbus
COLD SPRINGS—Strunk-Meyer Lime Co.
COLLINWOOD—Rolf, William
COLUMBUS—Acme Paving Co., 408 W State
Casparis Stone Co., Clinton bldg
Columbus Macadam Co., 319 Dublin av
Flsb Stone Co. (Cut Contractors), 202 W
Main
Klssinger, Elias C. (Dealer in Freestone),
101 E Swan
Lang, E. & C. (Cut Contractors), 551 E
Seeger, J. F., 692 E Fulton 5th
Wittenmeir Stone Co., s s Mound n of H. V.
Rv. Sta.
Woodruff & Pausch Stone Co. (Crushed)
CONSTITUTION—Cleary, Thomas
Constitution Stone Co. (Sandstone)
COVINGTON—Face, D. L.
Ruhl, J. W.
CRESTLINE—Kress, J. A.
DAYTON—Fauver, E. H. & Co., 907 Richard
Herman Bros. (Cut Stone & Mills), Burns
av E of Warren
Julick, Theo., Howell av nr Grosvenor av
New Jasper Stone Co., 1st & Harshman
New Jasper Stone Quarry, 1403 E. 1st
Rhoads, Samuel A. (Dealer), A. n s Penn
R. R. b Mound n of Pease
Talbot, H. E. & Co. (Cut Contractors),
Reibold bldg
Webber-Whyte Stone Co. (Cut Contract-
ors), Eaker c Levee

DELPHOS—*Fisher, A. L. (Building & Crushed)
 EAST LIVERPOOL—Phillips, George J. (Contractor)
 EATON—Holland, Hy. F. (Crushed, etc.)
 ELYRIA—Elyria Stone Co. (Sandstone)
 *Grafton Stone Co. (Blue & Buff Building, Sawed, Flagging, etc.)
 FINDLAY—Hancock Stone Co. (Crushed, etc.)
 Morrison, P. B. & Son (Dealers)
 Shea, Jas.
 Smith, A. M.
 Tarbox & McCall (Crushed, etc.)
 FOSTORIA—*Seneca White Lime Co.
 FREMONT—Gottroff Bros.
 *Walhoff, R. W.
 FULTON—*Rumer & Blythe
 GALION—Longstreth, T. W.
 GENEVA—Stephens, C. S.
 GRAFTON—*Grafton Stone Co. (Blue & Buff Sandstone)
 GREENFIELD—Porter, Joseph A.
 *Rucker Stone Co. (Limestone)
 Sellers, James H.
 HAMILTON—Horssnyder, F. (Cut Contractors), Front & Dayton
 Stewart, F. P. Granite Co. (Cut Contractors), High & Monument av
 HOLLAND—Holland Stone Co. (Crushed, etc.)
 IRONTON—Wileman & Hebling
 KELLEYS ISLAND—Kelly Island Lime & Transport Co.
 KENTON—Burkart, John (Flagging & Building Stone)
 Kenton Marble & Granite Co.
 KILLBUCK—*Uhl, Chas. F.
 LIMA—Hell, Valentine (Dealer)
 Hell, Valentine (Dealer)
 *Pugh Stone Co. (Building, etc.)
 Rockport Stone Co. (Crushed, etc.)
 West, Wm.
 Westerly Granite Co.
 LITHOPOLIS—Leinacker, Joseph
 LOWELLSVILLE—*Carbon Limestone Co.
 *Lowell Limestone Co.
 LUDLOW—*Coppock, F. M.
 McDERMOTT—*McDermott Stone Co. (Blue & Buff Sandstone)
 *Southern Ohio Vault Co. (Cut Contractors)
 MADISONVILLE—Julien, Jas. (Cut Contractor)
 MANSFIELD—*Frances E. H. Sons (Crushed Limestone), Mansfield, O.
 Fraser, Alex. & Co.
 Ottinger, S. F.
 Preston, Burton
 Thomson, James
 Wolff, E. M. & Co.
 MARBLE CLIFF—*Casparis Stone Co.
 MARIETTA—Dickison, Beardsley & Foreman
 McLaren & Womner
 *Marietta Stone Co.
 Meisenhelder & Leonhart
 MARION—*Central Ohio Lime & Stone Co.
 *Evans, John Lime & Stone Co.
 *Lawrence, Daniel
 *Norris & Christian Stone & Lime Co. (Limestone)
 MARTINS FERRY—Hanes, J. T.
 MASSILLON—*Chippewa Sand & Stone Co.
 *Everhard Co.
 Massillon Sand & Stone Co. (Sandstone)
 *Massillon Stone & Firebrick Co.
 Meinhardt, Jno. & Son (Contractor)
 MAUMEE—*Ryan Stone Co. (Crushed, etc.)
 MESOPOTAMIA—Brigden, H. A.
 NEW PHILADELPHIA—Beiter, Jos.
 *Kaserman, Geo. A.
 NORWOOD—Dexter Lbr. Co.
 Stagg, Hly. & Sons
 PATTERSON—*Herzog, Jno. & Son (Building)
 PIQUA—McKee, D. L. & Son
 Ohio Marble Co.
 *Statler, D. C. & Co. (Lime)
 PLYMOUTH—*Plymouth Stone Co. (Sandstone)
 POMEROY—Bauer, Geo., Sr. (Flagging)
 Vincent, C. J. (Cut Contractor)
 PORTAGE—*Bordner Stone Co. (Crushed, etc.)
 PORTSMOUTH—*Bodmer Bros.
 *Reitz Stone Co. (Buff, Blue & Brown Sandstone)
 RARDEN—Rarden Stone Co. (Sand Stone)
 *Taylor Stone Co. (Blue Buff & Gray Sandstone)
 READING—Fuchs & Co.
 ST. BERNARD—Broxterman, Frank
 SANDUSKY—Kelm, C.
 Sandusky Sand Co.
 SPRINGFIELD—Crist, Wm. L., Jr., N. Park nr Fish, A. A., Kling blk
 *Houlton, Saml P., Lagonda Creek
 *Mills Bros. (Building, Bridge, Flagging, etc.), 107 S Limestone
 *Moore's Lime Co. (Crushed, etc.), Linden av & Washington
 *Rubsam, Earl J., Mad River nr National rd
 *Taylor, Samuel S., Dayton plke n Corp.

STEUBENVILLE—Archer, Mrs. W. L. line
 McCarty, A. J.
 SUGAR GROVE—*Sharp, R. L. Stone Co.
 SUNBURY—*Fleckner, H. (Sandstone)
 SYLVANIA—*Sylvania Stone Co. (Crushed, etc.)
 TIFFIN—Schouder, Louis
 Stewart, George
 Weot Bros.
 TOLEDO—Eckhardt Monumental Co., 27 Erie
 *Flint Stone Co. (Crushed, etc.)
 Hummel, W. W., Hamilton & Clover Leaf R R
 Froehlich, Herman, 1036 E Bancroft
 Knopp Bros. Co. (Cut Contractors), c Oak & Belt Line Ry
 Libbe, Henry (Flagging, etc.), Champlain nr Elm avs
 Lloyd Bros. Co., W Central & Auburn
 Neukom, Albert, 140 Ottawa
 Peck, C. & Son (Cut Contractors)
 Pray, J. L., 923 Prospect av
 Schlatter, Jno. (Crushed, etc.)
 Toledo Stone & Glass Sand Co., The Spitzer
 Toledo White Lime Co., 220 Erie
 UPPER SANDUSKY—Carpenter, D. E.
 Neldig, Jos.
 URBANA—Bunnell, D. M.
 Heatherman, Patk.
 VAN WERT—*Clover Leaf Stone Co.
 *Erie Stone Co. (Crushed, etc.)
 WADSWORTH—Hockensmith Bros.
 WARREN—Craig, S. Son & Co.
 Warren Marble & Granite Co.
 WASHINGTON, C. H.—Barber, D. J.
 Burke, P. J.
 WEST CLARKSFIELD—*Warner Stone Co.
 WHITE HOUSE—*Pray, J. L. & Son
 *Ryan, Jno. (Crushed, etc.)
 WOOSTER—*Winter, Jno. F.
 YOUNGSTOWN—*Arrel Limestone Co.
 *Interstate Limestone Co.
 *Lake Erie Limestone Co.
 *Lowell Limestone Co.
 *Quaker Falls Stone Co.
 *Union Limestone Co.
 ZANESVILLE—Cary, F. S. & Co.
 Mitchell Marble Co.
 Moore, L. A.

OKLAHOMA TERRITORY.

OKLAHOMA—Oklahoma Stone Mfg. Co.
 West & Creath

OREGON.

PORTLAND—*Forest Grove Stone Co., 497 Vancouver
 Index Granite Quarries, Sherlock bldg
 McCracken, J. Co. (Dimension & Sawed Sandstone), 231 Pine
 Schanen & Nau (Cut Contractors), 268 1st
 *Tonino Stone Quarries, Sherlock bldg

PENNSYLVANIA.

ALLEGHENY—Aitkenhead, Wm. (Cut), 1222 Irwin av
 Alston, A. & Son, Grant & Penna avs
 Barton & Miller (Contractors), 70 Melrose
 Bery & Mcville, Craig & River av
 Brogen, Edwd. (Contractor), 1809 Magnolia
 Clark Bros. Co. (Cut, Contractors & Saw Mills), Bayard & Preble av
 Fritz, Geo., 1213 East
 Hafner & Veder (Contractors), 1024 Perry
 Happ, Louis (Contractor), Fulton nr Penna av
 Holmes, Sam'l (Contractor), Allegheny av
 Hohnes, Sam'l (Contractor), 253 Juniatta
 Knox, Strauss & Bragdon (Cut), Preble
 Krah, Amand, 35 Ravine av, Juniata
 Morrison Bros. Co. (Cut, Contractors & Saw Mills), South & Allegheny avs
 Ogilvie Bros. W., Magnolia & Said
 Reinhardt, Sebastian (Contractor), 3925 Duquesne av
 Schreiner, Jno. C. (Heavy Foundations & Flagging), 371 California av
 Stehle, Andrew, North av
 ALLENTOWN—Ochs, M. T. J.
 Kline Bros. (Cut Contractors)
 Romig & Romig
 Shoemaker, G. W. (Dealer)
 ALTOONA—Hughes, W. V. & Son
 *Michaels, J. E.
 Stratford, J. F.
 Vipond Construction Co. (Cut & Flagging)
 Williams, W. R.
 ANNVILLE—*Annville Stone Co.
 *Keystone Marble Co.
 AVONDALE—*Williamson, F. & Co.
 BEAVER FALLS—National Sand & Stone Co.
 BECKERSVILLE—*Wesley, J. B. (Sandstone)
 BELLWOOD—*Cherry Bros.
 BETHLEHEM—(See South Bethlehem)
 BIRDSBORO—*Dyer, Jno. T. Quarry Co.
 BLAIRSVILLE—Frey, R. H. & Son
 Murray, C. F.
 BRADDOCK—Hodges & Hastings
 Peck, W. A.
 BRADFORD—Kelly, D. J. (Cut & Blue)
 BRIDGEPORT—*Tyson, Jacob L.
 BRISTOL—Banister, Jos. (Flag & Building Stone Cutter)
 Leedom, W. F. (Building)
 BROWNSVILLE—Wright's, T. S. Sons
 BURMONT—*Maher, Philip.
 BUTLER—*Schaffner, Geo.
 CARLISLE—Donovan, Jere
 Faber, L. C. (Flagging)
 Goodyear Bros. (Lime)
 CARNEGIE—Fort Pitt Stone & Brick Co.
 CATASAUQUA—Bernd, E. M.
 CHAMBERSBURG—Shull, D. J. & Son
 CHESTER—*Burns, D. H. (Blue)
 Culls, Hy. W.
 *Leiper, Callender I.
 *Leiper & Lewis (Cut Contractor)
 Oglesby, P. P. & Son
 Sleeper, N. E.
 COATESVILLE—Brosius, John
 COLUMBIA—Black, Samuel P.
 *Hoffman, S. H.
 CONNELLSVILLE—Palmer Bros.
 Standard Lime & Stone Co.
 *Zanchi, F. F.
 CONSHOHOCKEN—*Beatty, Jas., Sr. (Rubbie & Foundation)
 O'Neill, Thos. M. & Co.
 *Schuylkill Stone Co. (Building, Bridge, etc.)
 CRESSON—*Conemaugh Stone Co.
 CURWENSVILLE—*Clearfield Quarrying Co.
 *Couemaugh Stone Co.
 Roaring Run Stone Co.
 DANVILLE—Evans, T. L. Sons
 Rogers, D. J.
 DOYLESTOWN—Moore, J. H. (Cut Contractor)
 Stillwell, John P.
 DUBOIS—Krell, J. H.
 EASTON—Carey, Geo. A.
 Hartzell & Smith
 Howell's, D. J. Sens
 Kelly, Patrick (Blue)
 EDGEHILL—*Clayton, Mrs. Hannah
 *Comly, Frank T.
 ELLWOOD CITY—*Clydesdale Stone Co.
 Ellwood Stone Co.
 EMAUS—Becker, H. F.
 EMLENTON—Newton, A. R.
 EPHRATA—Bolster Bros.
 Wilson, T. A. (Crushed)
 FALLS CREEK—*Gocella Stone & Sand Co.
 FRANKSTOWN—American Lime & Stone Co.
 GETTYSBURG—*Lightner, B. F.
 GREEN LANE—National Quarry & Crushed
 GREENVILLE—*Amy & Co. Stone Co.
 Halpin, P. J.
 GROVE CITY—*Uber & Breckenridge Stone Co.
 HALIFAX—*Susquehanna Stone Co. (Large)
 HANOVER—Hoke, M. & Son
 Kuhn, F. X.
 HARRISBURG—Beatty & Bro. (Cut Contractors)
 Black, Jno. (Cut Contractor)
 Gerlock & Lutz (Foundation)
 *Walton Quarries (Building, Flux, Crushed Ballast, etc.)
 HIGH SPIRE—*Zimmerman, Solomon
 HOLLIDAYSBURG—American Lime & Stone Co.
 *Baldridge, E. R. & Co.
 HOMESTEAD—Erbeck, F. J. (Cut Contractors)
 *Hall, Geo. M. Co. (Foundation)
 HONESDALE—Caufield, Martin
 HUMMELSTOWN—Engle & Longnecker
 JOHNSTOWN—*Somerset Stone Co.
 KING OF PRUSSIA—Schweyer & Leiss (Blue)
 LANCASTER—*Betz, Jacob
 Haldy Marble & Granite Works
 Heidig, John B.
 Hook, John H.
 Kreider, A. H.
 Lancaster Cut Stone Co.
 Moedinger & Son
 Oster, Wm. M.
 LATROBE—*Herman, John
 Pottinger, Thomas
 LERANON—Boek, W. S. (Cut Contractor)
 Gulnther, Theobald (Cut Contractors)
 Hartlieb & Bro.
 *Millard, J. B. & Son
 *Royer, Sam'l A.
 McKEESPORT—*Bowman Bros. (Freestone)
 Winters, Edwin (Cut & Flagging)
 MALVERN—Green, Wm. S.
 MERCER—Robinson, N. T. (Flagging)

MILTON—Wetzel, W. H.
 MONONGAHELA—Gee's, R. M. Sons
 MYERSTOWN—Deck, Frank P.
 NEW BRIGHTON—Martolf Bros.
 §Smith, A. F. Co. (Sandstone)
 NEW CASTLE—*Croton Limestone & Brick Co. (Limestone)
 *Isabella Limestone Co.
 *Johnson, Geo. W. Limestone Co. (Limestone)
 *Lawrence Limestone Co.
 *Pennsylvania Limestone Co.
 *Pittsburg Limestone Co.
 *Shenango Limestone Co.
 NEWPORT—Hombach, A. V. & Son
 NICHOLSON—*Shields, Moses Stone Co. (Cut & Sawn)
 NORRISTOWN—§Dyer, John T. Quarry Co. (Building & Crushed)
 Landis, Isaac (Flagging & Cut)
 §Lukens & Yerkes
 §Richardson & Ross Quarry Co., Mogeetown
 Smith, Geo. W. (Est. of), (Cut Stone)
 Sullivan, W. M. (Cut, Contractor)
 NORTH WALES—Billard, Jas.
 OIL CITY—*Oil City Sandstone Quarry Co.
 PALMYRA—Mark, Moses
 PHILADELPHIA—Barker, H. & Bro., Witherspoon bldg
 Bell, Wm. H. (Cut Contractor), 1711 N Front
 Brown, Jas. F. (Cut Contractor), N 39th & Haverford
 Buck & Gallagher (Cut Contractors), S 9th & Wolf
 Clark & Co., Powdermill la, c Frogmoore Fkd
 *Clearfield Quarrying Co., Rothschild bldg
 *Conemaugh Stone Co. (Coping & Concrete Stone), Arcade bldg
 §Conshohocken Stone Quarry Co., 119 S 4th. Quarries, W Conshohocken, Pa.
 Copeland, Hugh & Co. (Cut Contractors), S 24th & Washington av
 Costigan, Lawrence, Church la & Baynton, Gtn
 Craig, Chas. (Contractor), 2632 Columbia av
 Cunningham, Wm. E., N 18th & City line
 Dodds, Jno. A. (Cut Contractor), 7 S 22d
 Dolan Bros. (Cut Contractors), 2505 Lombard
 Dolan, T. & J., 314 S 24th
 Doughten, Isaac, Rothschild bldg
 Dyer, John T. Quarry Co., Harrison bldg
 Eastburn, Chas. T., Rothschild bldg
 Eastern Kentucky Freestone Co., Drexel bldg
 Ebert, Morris (Foundation & Rubble), 119 S 4th
 Flynn, Jno. E. (Cut Contractors), Stenton av & E Luray, Gtn
 France David Co (Crushed & Building), Tasker st Wharf
 Garrett, Jas. & Co., 1432 S Penn sq
 General Crushed Stone Co., Real Estate Trust Co. bldg
 Giles, McMichael & Co. (Cut Contractor), 2929 Ellsworth
 Giles & McLaughlin, 1923 Wash'n av
 Glen Mills Crushed Stone Co., 15 N 4th
 Gray, Wm. & Sons (Cut Stone Contractors), S 30th bel Walnut
 Greble Marble & Granite Works, Witherspoon bldg
 Hagan, John & Co. (Stone Yard), c Cambria & N American
 Harrison, R. C. (Wholesale), 24th c Walnut
 Hastings & Morrison (Cut Contractors & Saw Mills), 1510 Wash'n av
 Hauser, John, 2333 Ridge av
 Hummelstown Brown Stone Co., Penna. Ireland, W. H., 1220 Filbert bldg
 Kirkpatrick Bros. (Brownstone Contractors & Saw Mills), 23d & Washington av
 Kolb, Jno. (Cut Contractors), 25th & Wash'n av
 Law & Burwell (Cut Contractors), 210 S 4th
 *Lukens & Yerkes, Commonwealth bldg
 Maxwell's, Jno. Sons (Blue), 30th below Spruce
 North Penn Stone Works, 2627 Susquehanna av
 Penna. Marble & Granite Co. (Cut Contractors), Penna bldg
 Peoples Bros. (Building & Crushed), N 25th & Callowhill
 Perry-Matthews-Buskirk Stone Co., Witherspoon bldg
 Phila. Granite & Blue Stone Co., 210 S 24th
 §Phila. & Conshohocken Stone Quarry Co. (Dimension & Rubble), Rothschild bldg
 Prince, Jno. F., Perry bldg
 Rambo, A. Sidney Co., Bullitt bldg
 *Richardson & Ross Quarry Co., Betz bldg

Richardson & Ward, Betz bldg
 §Ridgway, B. & Son (Wyoming, Blue, Rough & Cut Work), N 9th & Columbia
 Ryder & Jenkins, 3641 Woodland av
 §Schuykill Stone Co. (Building, Bridge Ashler, etc.), Penna. bldg
 §Shanley, B. M. & J. F. Co. (Heavy Masonry), Arcade bldg
 Tyson, J. L., 900 Jeff
 Westmorland Stone Co., Harrison bldg
 Williamson, Frank (Indiana & Ohio Buff & Blue, Conn. Brown & Broken, Wholesale), 2202 Chestnut
 PHOENIXVILLE—§Detwiler, G. A. (Cut Contractors)
 PITTSBURG—Aby & Wolf (Cut Contractors), Berlin & P. R. R.
 Buchman, Adam, 12 S 22d
 Beaver Valley Sand Stone Co., Frick bldg
 Booth & Flinn (Ltd.), 1942 Forbes av
 *Carnegie Steel Co. (Limestone for their own use). Quarries at Mercer, Pa.
 §Cleveland Stone Co., Bijou bldg
 Clifford, John R., 741 Bryn Mawr
 *Clydesdale Stone Co. (Bridge, Rubble, Dimension, etc.), Murtland bldg
 *Columbus Stone Co., Carnegie bldg
 Co-Operative Stone Co., 4317 Main
 *Consolidated Stone & Mining Co. (Sand Stone), Farmers' Bang bldg
 Coutts, Thos. & Co. (Cut Contractors), 3301 Penn av
 Craig Stone Co., Murtland bldg
 Davison, J. K. & Bro. (Contractors), 42d & Davidson
 Forest City Stone Co., 403 Penn av
 *Friendship Hill Quarries, Farmers' Bank bldg
 *Hill, John C. (Dimension, Curb & Rubble), Park bldg
 Lindsay Construction Co. (Cut Contractor), 3026 Liberty av
 §Malone Stone Co., Penn bldg
 Minsinger & Co. (Building & Crushed), 562 2d av
 *Monterey Quarrying Co., Arrott bldg
 Mullen & Fields, 5990 Center av
 Neshannock Stone Co., Farmers' Bank
 *Ohio Quarries Co., Empire bldg
 Packard, B. S., Times bldg
 Payne, Wm. J., Wash'n & Beltzhoover av
 Roaring Run Stone Co., Farmers' Bank bldg
 Winfield Mineral Co. (Limestone), 421 Wood
 *Winfield Sand Co., 421 Wood, Pittsburg, Pa.
 Wymard, John K., 915 Gerritt
 PLYMOUTH—Standard Crushed Stone Co., Cox Station
 POINT PLEASANT—§Heany, L. S.
 PORT KENNEDY—Jarrett & Rowan
 POTTSTOWN—*Egolf & Miller
 §Nagle, Geo. W. (Dimension)
 POTTSVILLE—Collins, Richard (Est. of) Miller, Louis
 Pottsville Marble & Granite Works
 QUAKERTOWN—Clark, Josiah (Flagging)
 READING—Ahrens, H. E. & Bro. (Contractors), 622 Court
 Bobst, Samuel (Foundation), 450 S 18th
 Eben Stone Co., 2d c Chestnut
 Eberl, S. & Co., 730 Olney
 Faust, J. K., 123 N Front
 Legler, Louis H., 226 Pearl
 Miller, Daniel (Cut Contractor), c Pear & Wash'n
 Mt. Penn Sand & Stone Works, 216 N 10th
 *Reading Cut Stone & Quarrying Co.
 RIDLEY PARK—*Richardson & Ward
 ROCHESTER—McDonald & Hartman (Dealers)
 ST. PETERS—*Knauer, David J.
 SALONA—Nittany Lime & Stone Co. (Crushed, etc.)
 SCRANTON—Burke Bros., Connell bldg
 Carlucel Stone Co. (Cut Contractors), 730 Scranton
 Keller, Luther (Lime), 913 W Lack. av
 Langan, John F. (Cut Stone)
 Ruddy, M. J. (Cut Contractor), 421 Lack.
 Stipp, Peter (Blue and Yellow), 325 N Wash. av
 Sykes, Samuel & Sons (Cut Contractors),
 *White Haven Quarry Co., 137 Penn av
 *Woelkers, Beilman, Zitzelman (East Mountain Quarries), 110 Wash'n av
 SEWICKLEY—Challis, D. W. & Son
 SHAMOKIN—Barr, Peter (Flagging)
 SHARON—Cook, Jno. & Son
 Malsom, L.
 SHARPSBURG—Forsythe, J. B.
 SHENANDOAH—Britt, Wm. J.
 Master, M. H.
 SKINNERS EDDY—*Brink & Knapp
 SOUDERTON—Souder & Crouthamel (Flag & Curb)

SOUTH BETHLEHEM—General Crushed Stone Co., Inc. (Crushed, R. R. Ballast, etc.)
 Reinhold, Chas. H. (Cut Contractor & Flagging), 326 Broadhead
 STEELTON—§Cumbler, Geo. W.
 Messenger Bros.
 TAMAQUA—Keller, P. (Flag)
 Kintzel, Geo. I.
 TUNKHANNOCK—Whlte, Geo.
 TYRONE—§American Lime & Stone Co. (Limestone)
 *Pittsburg Limestone Co.
 WAMPUM—Wampum Crushed Limestone Co.
 WASHINGTON—Hallam Construction Co.
 *Reitch Bros.
 WAYNE—*McClellan, Wm.
 WAYNESBORO—*Decarbonated Lime- & Stone Co.
 *Manherz, G. C.
 WEST CHESTER—Corcoran Bros.
 §Farrell, M. & T. E. (Green)
 WEST CONSHOHOCKEN—(See Conshohocken)
 WEST GROVE—Penna. Marble & Granite Co. (Cut Contractors)
 WEST NEWTON—Walker, Geo. S.
 WILKES-BARRE—Buckley, Dennis (Dealer), 151 Hanover
 §Schmidt, Jno. A. (Laurel River Red)
 Stemmer & Geick (Cut Stone)
 WILKINSBURG—Hill, Jno. C., Penn av & P. R. R.
 *New Kensington Stone Co. (Bridge, Curb & Rubble, etc.)
 Raisig, Chas., 1st Nat'l Bank bldg
 Robertson, J. & Son, 207 Thomas
 Wright, J. & Sons, 744 Penn. av
 WILLIAMSPORT—Butz, Wilson
 Carothers, A. K.
 Ellis, W. F., 348 Court
 Gibbons, J. E.
 §Guise Brick & Stone Co.
 *McMinn, J. H.
 Schrade, J. C., ft Heyburn
 Stuempfle, A.
 Stuempfle's, D. Sons
 Susquehanna Stone Co.
 Waltz, G.
 YORK—§York Valley Lime Co. (Limestone)
 §York Valley Lime Co. (Limestone)

RHODE ISLAND.

EAST GREENWICH—Hussey, Thos. A.
 EAST PROVIDENCE—Chase, Andw. R.
 *McCormick, Jos. (Foundation, Building & Crushed), 183 Taunton av
 NEWPORT—Austin, Chas. P.
 Cottrell, Jas. B. (Cut Contractor)
 Riggs, Geo. H.
 PAWTUCKET—Burns, Chas.
 Johnson, Fred. L.
 Newell Coal & Lbr. Co. (Blue)
 O'Connor Bros.
 O'Connor, Maurice M.
 PROVIDENCE—Bishop, J. W. & Co. (Cut Limestone Contractors), Butler Exchange
 Bouchard, Z V., Cranston c Linwood av
 Del Giudice, A. & Son, 133 Atwells av
 Farnum & Co., 1145 Westminster
 Goff, Jas. C. (Blue), 31 Point
 Johnson, Fred. L., opp. Swan pt & River side Cemetery
 McCormick, Jos. (Foundations & Crushed), 75 Westminster
 Manchester & Hudson (North River Blue), 55 Point
 Norcross Bros. (Brown & Red, Sand & Cut Contractors), 16 Exchange
 O'Brien, Jno., 440 Cranston
 Rhode Island Brown Stone Works (Brown & Red, Sand & Cut Contractors), Leland n Brown & Sharp
 Stone, Jos. P. (Cut Contractor), 75 Westminster
 Tingley, F. F., 75 Westminster
 WESTERLY—*New England Granite Works
 WOONSOCKET—Daigneult, Alfred (Building)
 Magown & Bucke
 Myers & Murray

SOUTH CAROLINA.

COLUMBIA—Hyatt, F. H.

SOUTH DAKOTA.

LEAD—Bartlett Bros. (Dealers)
 SIOUX FALLS—Ballard & Son
 Gillett, Frank H.
 Perry, Geo. H. (Dealer)

TENNESSEE.

CHATTANOOGA—*Chickamauga Quarry & Hassell, A. W. Construction Co.
Troutt, John & Co. (Cut Contractor), 1090 Market Works
CLEVELAND—Cleveland Granite & Marble Works
FAYETTEVILLE—Peach, Lewis (Cut Contractor)
HUMBOLDT—Eclipse Marble Works (Cut Contractor)
MEMPHIS—Anderson, Arfel (Contractor), 880 Bass av
Jenkins, Thos. & Co. (Contractors), Builders' Exch.
Kastner Cut Stone Co., Vance & Walnut
Morris Bros. (Cut Contractors & Saw Mills), 433 Main
NASHVILLE—Bardon & Fulcher Cut Stone Co. (Cut Contractors), c Mulberry & S
Engelbert & Co. Vln
Foster & Herbert Cut Stone Co.
Hardison, W. T. & Co. (Dealers)
Jordan, Wm. E. & Co. (Cut Contractors)
Oman Bowling Green Stone Co. (Cut Contractors)
SPRING CITY—*American Lime Works (Crushed, etc.)

TEXAS.

AUSTIN—*Austin White Lime Co. (Limestone)
DALLAS—Beilharz, Theo. (Cut Contractor & Steam Saw Mill), c Pacific av & Hawkins
Davoren, P. E. & Co.
Hanway Marble & Granite Co.
Lindsay, David H. (Cut Contractor), B'way & Pacific av
Moore & Co. (Dealers), 270 Pacific av
DENISON—Chamberlain, A. P.
Devault, J. & S. A.
EL PASO—El Paso Ice & Refrigerator Co. (Limestone)
Moretti, John
Pioneer Marble & Granite Co.
FORT WORTH—Bergin, E. T.
U. S. Construction Co.
GALVESTON—Ott, Chas. S., 912 Tremont
KERRVILLE—*Richards, B. C.
MULDOON—*Kerr, A. B. (Rubble and Foundation)
SAN ANTONIO—Blank, P. C. & Co. tion)
Teich, Frank, 618 Golaid

UTAH.

LOGAN—Hanson, P. O.
OGDEN—Mitchell Bros. (Cut Contractors)
SALT LAKE CITY—Ashton Bros.
Ashton, Whyte & Skillicorn Co.
Johnson, C. O.
McKenzie, R.

VERMONT.

BARRE—(See Granite Producers, Workers and Dealers)
BRATTLEBORO—Gillman, G. E. Dealers)
Grant, C. H.
BURLINGTON—Goodell, J. W.
HARDWICK—(See Granite Producers, Workers and Dealers)
MONTPELIER—American Granite Co.
Columbia Granite Co.
Lynch Bros.
Smith, Charles A.
Willison, E. C. Co.
NEWPORT—*Fletcher, H. E. & Co. (Cut Contractors, etc.)
*Fletcher & Lahey (Cut Contractors, etc.)
RANDOLPH—Lamb, Austin F.
RUTLAND—Rutland Marble Mfg. Co.
ST. ALBANS—*Fonda, W. B. (Limestone)
ST. JOHNSBURY—Bennett, Clarence A.
Bragg, A. L.
WILLIAMSTOWN—Gearson-Becket Co.
Gearson-Becker Co.
Lynde, George W.

VIRGINIA.

NEWPORT NEWS—Davis, J. L.
NORFOLK—Anthony, Arthur G.
Church Quarry & Mining Co. (Crushed, etc.)
Makinson, Allen J.
Makinson, Allen J.
*Tidewater Quarry Co.
PETERSBURG—*Cook, Asa B.
*Walsh, C. M.
PORTSMOUTH—Ogg & Walker
RICHMOND—Gude, Joseph A., 22 W Marshall
Mason, Wm. R. (Cut Contractor), 1601 W Marshall
Netherland & Eubank, 2701 W Cary
Netherwood, Albin (Cut Contractor), Dock bet 19th & 20th

Taylor, J. M. (Cut Contractor), Oakwood av nr Cemetery

Wray, A. J., 328 S Cherry
ROCKFISH—*Southern Quarry Co.
SCHUYLER—*Virginia Soapstone Co. (Soapstone)

WASHINGTON.

SEATTLE—Port Angeles Stone Co., N. Y.
Riverside Stone Co., Marion Bldg. Blk.
*Sucia Island Quarry Co., Colman Bldg.
*Tenino Stone Quarries, 1243 Railroad av S
SPOKANE—Crystal Marble Co. (Dealers)
Smith, O. F. (Cut Contractor)

WEST VIRGINIA.

HINTON—Noel, R. E.
MARTINSBURG—Kantner, W. H.
Kantner, W. H.
*Martinsburg Limestone Co.
*Standard Lime & Stone Co.
ROWLESBURG—Preston Bluestone Co.
WHEELING—Hobbs Monument Co.
Rosenberg, J. H. & Son (Contractors), 2810 Eoff

WISCONSIN.

ABLEMAN—*Gall, Wm.
APPLETON—Helm, Carl
*Marston Bros. (Limestone)
AMBERG—Archie Bros. Granite Co.
ASHLAND—*Donald, A. & Co. (Cut Contractors)
BELOIT—*Samp, Wm.
McGavock, E. J. & Co.
CLINTONVILLE—Melzer, William (Building & Cutter)
DUNNVILLE—*Dunnville Stone Co.
HARTFORD—Le Count, F. M.
HORTONVILLE—*Hodgkins, David
HOUGHTON—Smith, W. H. (Limestone)
JANESVILLE—Shearer, James
LA CROSSE—La Crosse Monumental Works
*La Crosse Stone Co.
LANNON—*Davis Bros. Stone Co.
*Harmon, H. & Sons
*Kiefer & Burg
Wallen, Frank
*Williams & Lannon
MADISON—Alford, Wm. H.
Statz, Hy.
MANITOWOC—Johnson, J. G. Co. (Dealers)
Kettenhofen, N. (Cutter)
MARBLEHEAD—*Nast Bros. Lime & Stone Co.
MILWAUKEE—Andres, Fred. & Co. (Cut Contractors), Keefe av & Richards
Chicago Brick & Supply Co. (Rubble, Crushed & Curbing, etc.), 204 Grand av
General Construction Co., 106 Mason
Lake Shore Stone Co., Herman Bldg
*Manegold, A. F. & L., 204 Grand av
Mattusch, Frank Stone Co. (Cut Contractors), 30th nr Elm
*Menominee Falls Lannon Stone Co., 97 Wisconsin
Meyers Bros. (Cut Contractors), c E North av & Newhall
Milwaukee Crushed Stone Co.
Monarch Stone Co., 204 Grand av
*Story Bros. (Limestone), 204 Grand av
*Wauwatosa Stone Co. (Limestone), 204 Grand av
*Western Lime & Cement Co., Pabst Bldg
Wilce, John (Cut Contractors), 253 Orchard
MONROE—Ryan, D. C.
OSHKOSH—*Cook & Brown Lime Co. (Limestone)
*Lutz, Robt.
*Prautsch, Oscar
*Repe, Chas.
Wenrich, H. F.
RACINE—Crotsenburg, W. A.
Crotsenburg, W. A.
*Horlick Lime & Stone Co., on Rapids rd
O'Laughlin, John Stone Co. (Quarry & Crushed)
*Roberts, Jno. M. (Cut Contractors)
SHEBOYGAN—Schcele, Henry, Jr. (Cut Contractor)
*Sheboygan Lime Works (Lime Mfrs.)
STURGEON BAY—*Laurie Stone Co. (Building Stone)
Leatham & Smith Lbr. Co. (Building Stone)
*Laurie Stone Co. (Building Stone)
Leathern & Smith
SUPERIOR—Penn, Wm. Stone Co. (Cut Contractors)
UTLEY—*Wisconsin Granite Co. (Cut Contractors)
WATERLOO—*Portland Granite Co.
WAUKESHA—*Waukesha Lime & Stone Co.
*Waukesha Stone & Quarry Co.
WAUWATOSA—*Manegold, A. F. & L.
Zimmerman, J. C. & Son

WYOMING.

RAWLINS—*Larsen, H. (Sandstone)

Stone Renovators

Acme Stone Renovating Co., 432 W 40th, N. Y.
American Diamond Blast Co., 114 Liberty, New York
Anders & Wagner, 77 E 4th, New York
Auguade, P., 248 W. 39th, New York
Blanqui, Paul, 528 9th av, New York
Burke Bros., 1252 S 42d av, Chicago, Ill.
Cody, Martin & Son, 737 3d av, New York
Excelsior Stone Cleaning & Sand Blast Co., 62 6th av, New York
Finney, C. H. & Sons, 909 6th av, New York
Fordham Stone Renovating Co. (Granite, Marble & Brownstone Renovated & Pointed), 1123 B'way, New York
Janny, Louis, 178 7th av, New York
Motzel, Henry & Son, 427 E 88th, New York
National Stone Renovating Co., 503 5th av, New York
Orrigoni, R., 42 W 98th, New York
Paris Stone Renovating Co., 19 Park pl, New York
Smith, N. & Co., 1962 B'way, New York
Smyth, Jno., 57 E 128th, New York
Trafford, Roswell L., 1411 Franklin av, New York
Zaput, Nicholas, 179 W 63d, New York

Stone Rubbing Beds

(See Rubbing Beds, Stone, Slate, etc.; also Machinery, Stone Polishing)

Stone Saw Blades (Steel)

Carnegie Steel Co., Carnegie bldg, Pittsburg, Pa.
Elyria Iron & Steel Co., Elyria, O.
Jones & Laughlin Steel Co. (Ltd.), 3d & Try, Pittsburg, Pa.
Oldham, Joshua & Sons (Inc.), 112 26th, Brooklyn, N. Y.
Pittsburg Steel Co., Frick Bldg., Pittsburg, Pa.

Stone Sawing Machinery

(See Machinery, Stone Sawing.)

Stone Screenings

Blair, Reed F. & Co. (Limestone), Frick Bldg., Pittsburg, Pa.
Interstate Limestone Co., Youngstown, O.
Shanley, B. M. & J. F. Co., Arcade bldg., Phila., Pa.
Walton Quarries (Fine & Coarse), Harrisburg, Pa.
Winfield Mineral Co., 421 Wood, Pittsburg, Pa.

Stoners (Cherry & Peach)

Buffalo Specialty Co., Buffalo, N. Y.
Enterprise Mfg. Co. ("Enterprise"), 3d & Dauphin, Phila., Pa.
Goodell Co. (Family), Antrim, N. H.
National Novelty Corp'n ("Brighton"), 826 B'way, New York
Penn Hardware Co. ("Penn"), Reading, Pa.
Rollman Mfg. Co., Mount Joy, Pa.
Sircclair-Scott Co., Baltimore, Md.

***Stones (Alundum)**

NORTON CO., Worcester, Mass. (See adv. index & branch offices, end of book)

Stones (Emery)

American Emery Wheel Works, 325 Waterman, Providence, R. I.
Bridgeport Safety Emery Wheel Co., Bridgeport, Conn.
Pike Mfg. Co., Pike Sta., N. H., & 151 Chamberlans, New York
Tanite Co., Stroudsburg, Pa.
VITRIFIED WHEEL CO., Westfield, Mass. (See adv. index, end of book)

Stones (Glass Cutters')

Pike Mfg. Co., Pike Sta, N. H., & 151 Chambers, New York

Stones (Huller & Pulp)

Independent Stone Co., Cuyahoga bldg, Cleveland, O.

Stones (Oil & Water)

American Emery Wheel Works, Providence, R. I.
 Carborundum Co., Niagara Falls, N. Y.
 Chicago Wheel & Mfg. Co., 39 W Randolph, Chicago, Ill.
 Pike Mfg. Co., Pike Station, N. H., & 151 Chambers, New York
VITRIFIED WHEEL CO., Westfield, Mass. (See adv. index, end of book)

Stones (Scythe)

Carborundum Co., Niagara Falls, N. Y.
 Chicago Wheel & Mfg. Co., 40 W Randolph, Chicago, Ill.
 Cleveland Stone Co., Hickok bldg., Cleveland, O.
 Independent Stone Co., Cuyahoga bldg., Cleveland, O.
NORTON CO. ("Norton" Alundum), Worcester, Mass. (See adv. index & branch offices, end of book)
OHIO QUARRIES CO., 818 Euclid av., Cleveland, O.
 Pelkey, W. H., Fair Haven, Vt.
 Pike Mfg. Co., Pike Station, N. H., & 151 Chambers, New York

Stones (Sharpening)

Carborundum Co., Niagara Falls, N. Y.
NORTON CO., Worcester, Mass. (See adv. index & branch offices, end of book)

Stones (Tool)

Carborundum Co., Niagara Falls, N. Y.
 Chicago Wheel & Mfg. Co., 40 W Randolph, Chicago, Ill.
 Cleveland Stone Co., Hickok bldg., Cleveland, O.
OHIO QUARRIES CO., 818 Euclid av., Cleveland, O. Quarries & Mills, Amherst, O.
 Pike Mfg. Co., Pike Sta., N. H., & 151 Chambers, New York

Stoneware (Chemical)

Remmey, Richard, Sons Co., 2637 E Cumberland, Phila., Pa.

Stools (Adjustable)

American School Furniture Co., 21 W 18th, New York
 Chandler Adjustable Chair & Desk Co., 165 Devonshire, Boston, Mass.

***Stools (Store)**

BETHLEHEM FOUNDRY & MACHINE Co. (Bracket, Pedestal, etc.), Front, South Bethlehem, Pa., & 149 Broadway, New York. (See adv. index, end of book)

Stoppers (Bath & Basin)

Climax Specialty Co., Seneca Falls, N. Y.
 Morgan & Wright (Inc.) (Rubber), 226 Jefferson av., Detroit, Mich.
 Wolverine Brass Works, Grand Rapids, Mich.

Stoppers (Bottle)

Baird Machine Co., Oakville, Conn.
 Hutter, Karl ("Hutter" Porcelain), 241 Lafayette, New York
 Koscherak, I. (Porcelain), 239 Canal, New York

***Stoppers (Flue, Peerless)**

INDIANAPOLIS STEEL ROOFING & CORRUGATING CO., Indianapolis, Ind. (See adv. index, end of book)

Stoppers (Gas Main)

Safety Gas Main Stopper Co. ("Goodman"), 552 E 135th, New York

Stoppers (Plumbago)

McCullough-Delzell Crucible Co. (for Bessemer & Open Hearth Furnaces, Pittsburg, Pa.)

Stoppers & Nozzles (Ladle)

Seidel, R. B. (Inc.) (for Open Hearth & Bessemer Ladles), 1334 Callowhill, Phila., Pa.

***Stops (Crane Limit)**

ELECTRIC CONTROLLER & SUPPLY Co., Cleveland, O. (See adv. index & branch offices, end of book)

Storage Batteries

(See Batteries, Storage.)

***Store Front Construction**

COULSON, J. W. & CO., Columbus, O. (See adv. index & branch office, end of book)
NATIONAL STORE FRONT CO., 208 First av., Pittsburg, Pa. (See adv. index, end of book)

Store Fronts (Brass & Bronze)

BROWN BROS. MFG CO., 22d & Campbell av., Chicago, Ill. (See adv. index, end of book)
 Brandenberger & Co., 314 W Lombard, Baltimore, Md.
 Columbus Corner Post Co., Columbus, O.
COULSON, J. W. & CO. (Also Brass), 98 N 3d, Columbus, O. (See adv. index & branch offices, end of book)
HENRY-BONNARD BRONZE CO., Sales Office, 5 & 7 E 42d, New York. Wks: Mount Vernon, N. Y. (See adv. index, end of book)
NATIONAL STORE FRONT CO., 208 First av., Pittsburg, Pa. (See adv. index, end of book)
SMITH, F. P. WIRE & IRON WORKS, 100 Lake, Chicago, Ill. (See adv. index, end of book)

UNION EQUIPMENT AND BRONZE CO.

520 W 36th, N. Y. (See adv. outside stencil)
WISCONSIN IRON & WIRE WORKS, 190 E. Water, Milwaukee, Wis. (See adv. end of book)

Store Fronts (Cast Iron)

(See Firms in Iron, Architectural & Ornamental, marked with a (*) Star.)

Store Fronts (Galvanized Iron)

Berghofer & Ohnemus, Quincy, Ill.
 Chattanooga Steel Roofing Co., Chattanooga, Tenn.
DROUVE, G. CO., 40 Tulip, Bridgeport, Conn. (See adv. index, end of book)
EDWARDS MFG. CO., Eggleston av., 4th & 5th, Cincinnati, O. (See adv. index, & branch offices, end of book)
 Freund, Jacob Roofing Co., Mitchell av & B & O. S. W. Rv., Cincinnati, O.
 Gara, McGinley & Co., 23 S 17th, Phila., Pa.
 Henson, Robinson Co., Springfield, Ill.
 Mesker, Geo. L. & Co., Evansville, Ind.
 Mesker & Bro., 421 S 6th, St. Louis, Mo.
MILWAUKEE CORRUGATING CO., Milwaukee, Wis. (See adv. index, end of book)
MULLINS, W. H. CO., Salem, O. (See adv. index, end of book)
 Newburgh Cornice Works, Newburgh, N. Y.
 Penn. Metal Ceiling & Roofing Co., 23d & Hamilton, Phila., Pa.
 Ritzler, J. A. Cornice & Ornament Co., 600 W 5th, Kansas City, Mo.
 St. Paul Roofing, Cornice & Ornament Co., St. Paul, Minn.
 Siddons, John Co., Rochester, N. Y.
THORN, J. S. CO., 20th & Allegheny av., Phila., Pa. (See adv. index, end of book)
 Wilmington Cornice Works, c 11th & West, Wilmington, Del.
WISCONSIN IRON & WIRE WORKS, 190 E Water, Milwaukee, Wis. (See adv. index, end of book)
 Witt Cornice Co., B'way & 8th, Cincinnati, O.

Store Fronts & Show Windows (Glass)

Columbus Corner Post Co., Columbus, O.
 Crane Glass & Mfg. Co. (All Glass), Cleveland, O.

Store & Bar Fixtures

Abbott Mfg. Co., St. Paul, Minn.
 Architectural Woodworking Co. (Drug, Cigar, Bank & Office Cabinet Work), 3019 Chestnut, Phila., Pa.
 • Becker, L. A. Co. (Drug Store, etc.), 900 S Halsted, Chicago, Ill.
 Bloom, Alfred Co., 1502 California, Omaha, Neb.
 Buffington, I. T., Elizabethville, Pa.
 Burge-Huck Mfg. Co., Quincy, Ill.
 Bush, Jas. S. (Office & Store), 239 B'way, New York
 Capitol City Furniture Co. (Bank, Store, Bar, Church, etc.), 639 Jackson, St. Paul, Minn.
 Cedar Valley Mfg. Co. (Bank, Office & Store), Waterloo, Ia.
 Chicago Store & Office Furniture Co., 2555 Leo, Chicago, Ill.
 Cleveland Store Fixture Co., 302 Seneca, Cleveland, Ohio
 Columbus Bar Fixture Co., Columbus, O.
 Dean, C. P., 10 Governor, Richmond, Va.
 Fischer Bros., 150 Bank, New York
 Folding Bath Tub Co., Marshall, Mich.
 Glaser, Rohrer & Co., 725 1st av., New York
 Gray Mfg. Co., Muskegon, Mich.
 Great Western Cabinet Works, 2025 Harrison, Kansas City, Mo.
 Herdman Sash, Door & Lumber Co., Zanesville, Ohio
 Herrick Refrigerator & Mfg. Co., 4th & Oakland av., Kansas City, Kans.
 Holm's Pattern & Model Works, 116 1st av., N Minneapolis, Minn.
 Kelly Bros. Co., 5336 Armour av., Chicago
 Kleeman, Wm. & Co., 619 W 54th, New York
 Kloak Bros. & Co., c Pearl & Elm, Cincinnati
 Kurtz Bros., South Bethlehem, Pa.
 Loeper, Anton, Ashland, Pa.
 Maclean, J. S., 161 W. Spring, Columbus, O.
 Mansfield, R. & Son, 313 E Main, Louisville, Ky.
 Mason City Mfg. Co., Mason City, Ia.
 Nalle & Co., Austin, Tex.
 National Office Furniture & Supply Co., 921 F, N W, Washington, D. C.
 Nauman Co. (Bank, Drug & Store), Waterloo, Ia.
 New York Store Fixture Co., 148 Bank, N. Y.
 Phoenix Furniture Co., Eau Claire, Wis.
 Quincy Show Case Works (Bank, Office, Drug Store, Jewelry, etc.), Quincy, Ill.
 Reeher's, J. Sons, 409 E 107th, New York
 Revell, Alex. H. & Co., c Wabash av & Adams, Chicago, Ill.
 Roach & Musser Sash & Door Co., Muscatine, Iowa
 Rock Island Stair Works, Rock Island, Ill.
 St. Louis Bank Fixture Co., Lincoln Trust Bldg., St. Louis, Mo.
 Sayre-Newton Lumher Co., 23d & Blake, Denver, Col.
 Segelke & Kohlbaus Mfg. Co., La Crosse, Wis.
 Sexsmith & Hauser Co., 514 W 46th New York
 Sieburg, Chas., 211 Wooster, New York
 Simmons, W. H. Wood Working Co., Williamsport, Pa.
 Sorensen, O. J., La Crosse, Wis.
 Spalt, Geo., 904 B'way, Albany, N. Y.
 Staudte & Reuckoldt Mfg. Co., Souard c De Kalb, St. Louis, Mo.
STEARNS, A. T. LUMBER CO., Neponset, Boston, Mass. (See adv. index, end of book)
 Stevens, Benj. A. Co., Toledo, O.
 Struck, J. N. & Bro. (Inc.), Louisville, Ky.
 Warren, Wm. H. Mfg. Co., c Blackhawk & Smith av., Chicago
 Weaver, Dan'l & Son, Tamaqua, Pa.
 Whitcomb Cabinet Co., Kansas City, Mo.
 Winter, M. Lumber Co., Sheboygan, Wis.
 Wollacger Mfg. Co., 636 N Water, Milwaukee, Wis.
 Worn, William & Co., 69 George, Brooklyn, N.Y.

Stove Boards

Keystone Stove Board Co., 128 N 2d, Phila., Pa.
 Oil City Asbestos Co. (Asbestos), Oil City, Pa.
 Sweeney, W. H. Mfg. Co. (Embossed White Metal), 66 Water, Brooklyn, N. Y.
 Spalsh Screen Door Co., 204 Dearborn, Chicago, Ill.

Stove Linings

Baltimore Terra Cotta Works, Baltimore, Md.
Bridgeport Crucible Co. ("Champion" Stove Clay), Bridgeport, Conn.
Brooklyn Fire Brick Works, 88 Van Dyke, Brooklyn, N. Y.

Fox, E. S. & Co., Reading, Pa.
Garfield Fire Clay Co., Robinson, Pa.
Hall & Sons, 69 Tonawanda, Buffalo, N. Y.
Louisville Fire Brick Works, Louisville, Ill.
McLeod & Henry Co., Troy, N. Y.
Newton-Perkins Fire Brick Co., Albany, N. Y.
Peekskill Fire Brick Works, Peekskill, N. Y.
Presbrey Stove Lining Co., Taunton, Mass.
Rogers & Co., Royersford, Pa.

RUTLAND FIRE CLAY CO. (Plastic),
Rutland, Vt. (See adv. index & branch offices, end of book)
Standard Stove Lining Co., Taunton, Mass.
Sweeney, Geo. & Co., 1334 Ridge av, Phila., Pa.
Taunton Stove Lining Co., Taunton, Mass.
Union Stove Lining Co., Taunton, Mass.
Wakefield Fire Brick Co., Northeast, Md.
Williams Stove Lining Co., Taunton, Mass.

Stove Linings (Asbestos)

Alliance Asbestos Mfg. Co. (Cements), Alliance, O.
Johns, H. W.-Manville Co. ("Phoenix," Dry Powder), 100 William, New York

Stove Manufacturers

ALABAMA.

AVONDALE—Avondale Stove & Fdy. Co.
BIRMINGHAM—Standard Stove Works.
BRIDGEPORT—Gunter Stove Works.
FLORENCE—Florence Stove Works.
GADSDEN—Agricola & Jones Mfg. Co.
SHEFFIELD—Lowman, Lizzie Stove Works
Sheffield Stove & Fdy. Co.

CALIFORNIA.

SAN FRANCISCO—Graham, Jas. Mfg. Co.
CORNING—Vaugh Range Mfg. Co.
LOS ANGELES—Pacific Stove Co. (Stoves & Ranges)

CONNECTICUT.

STAMFORD—Stamford Fdy. Co. (Parlor, Store, Factory & Laundry)
Stamford Gas Stove Co. (Stoves, Ranges & Furnaces, etc.)

GEORGIA.

ATLANTA—Atlanta Stove Wks.
ROME—Bowie Stove Co.
Southern Co-Operative Fdy. Co.

ILLINOIS.

AURORA—Rathbone, Sard & Co. (Stoves, Ranges, Stationary & Portable)
BELLEVILLE—Belleville Stove & Range Co.
Eagle Foundry Co.
Quality Stove & Range Co.
Queen City Stove & Range Co.
Snyder & Baker Stove Co.
Wilson Steel Range Co.
BLOOMINGTON—Bloomington Stove Co.
Co-Operative Stove Co.
CHARLESTON—Charleston Foundry Co.
CHICAGO—Ailingham Stove Works, 2323 Wash av
American Stove Co., 72 Lake (Branch of St. Louis, Mo., Office)
Chicago Stove Works, Blue Island av & 22d
Carmichael Range Co., 195 Kinzie
Cole Mfg. Co. ("Cole's" Hot Blast Stoves & Ranges), 3218 S Western av
Cribben & Sexton Co., 50 Erie
Detroit Stove Works (of Detroit, Mich.), 2921 Lasalle
Home Stove Works, W 18th pl c S Rockwell
Mudd Mfg. Co., Hanson P. K., Chicago, Ill.

CHICAGO HEIGHTS—Bonnett-Nance Stove Co.
Stoves, Iron & Steel Ranges, Base Burners & Wood & Coal Heaters, etc.)

JOLIET—Joliet Stove Works
MARENGO—Collins & Burgie Stove Co.
NEW ATHENS—New Athens Fdy. Co.
PEORIA—Culter & Proctor Stove Co.
Western Stove Works (Furnaces, Stoves & Ranges)

QUINCY—Channon-Emery Stove Co.
Comstock-Castle Stove Co.
Excelsior Stove & Mfg. Co. (Stoves & Ranges)
Gem City Stove Mfg. Co. (Ranges, Heaters & Furnaces)
Gem City Stove Mfg. Co.
Quincy Fdy. & Novelty Co.
Quincy Stove & Mfg. Co.
Sheridan Stove Mfg. Co.
White, Thos. Stove Co.
ROCK ISLAND—Rock Island Stove Co.

INDIANA.

DALEVALE—Ideal Stove & Fdy. Co.
EVANSVILLE—Evansville Fdy. Assn. (Stoves, Ranges, Hollow Ware & Castings)
Evansville Stove Works (Stoves & Hollow Ware)
Indiana Stove Works
Southern Stove Works (Stoves & Ranges)
INDIANAPOLIS—Home Stove Co., 117 S Meridian
Indianapolis Stove Co., Roosevelt & Co-Purcell, P. M. Mfg. Co. (Stoves, Ranges, etc.)
MARION—Home Pride Range Co.
Marion Stove Co.
SOUTH BEND—Malleable Steel Range Co.
VINCENNES—Star Shovel & Range Co., Ltd. (Stoves, Ranges, etc.)

IOWA.

KEOKUK—American Stove & Range Co.

KANSAS.

LEAVENWORTH—Great Western Stove Co.

KENTUCKY.

COVINGTON—Insurance Stove, Range Foundry Co.
LOUISVILLE—Bridgeford & Co., 1953 Portland
Fischer-Leaf Co. (Stoves & Ranges)
Graf-Webb Iron Mfg. Co., 1600 Magazine
Kentucky Stove Co., 1401 Delaware
O. K. Stove & Range Co. (Stoves, Ranges, etc.), 238 W Main
Stratton & Terstegge Co. (Inc.), 728 W Main
OWENSBORO—Gunther, Harry & Bro. (Heavy Cast Iron Heating)

MAINE.

BANGOR—Noyes & Nutter Mfg. Co.
Wood & Bishop Co.
PORTLAND—Portland Stove Fdy. Co. (Stoves, Ranges, etc.)

MARYLAND.

BALTIMORE—Armstrong Stove & Mfg Co., 207 S Charles, Baltimore, Md.
Bibb, B. C., Stove Co., 103 Light
Greenmount Stove & Mfg Co., 883 Greenmount av
Heath, Chas. C. & Co., 14 N Howard
Sexton S. B. Stove & Mfg Co., 7 S Gay
Sheppard, Isaac A. & Co. (Furnaces, Stoves & Ranges)
Standard Supply & Equip Co., 306 N Haliday
Welskettle, A. & Son, c Wash. & Aliceanna
PERRYVILLE—Armstrong Stove & Mfg. Co.

MASSACHUSETTS.

BOSTON—Chilson Furnace Co. (Furnaces, Ranges & Stoves), 88 Wash'n
Highland Fdy. Co., 1341 Columbus av
Magee Furnace Co., 36 Union
Smith & Anthony Co., 48 Union
Walker & Pratt Mfg. Co. (Furnaces, Ranges & Stoves), 31 Union
NORTH DIGHTON—North Dighton Co-Operative Stove Co.
OTTER RIVER—Lord Stone & Co.
PLYMOUTH—Plymouth Stove Fdy. Co.
SOMERSET—Somerset Stove Co.
TAUNTON—Dighton Furnace Co. (Stoves, Ranges, etc.)
Thomas, Oscar G.
White-Warner Co.

MICHIGAN.

BIG RAPIDS—Michigan Heater Co. (Stoves, Ranges & Parlor Furnaces)
DETROIT—Art Stove Co., 1545 Russell
Detroit Stove Wks. (Cooking & Heating for Gas, Wood & Coal), 1320 Jeff'n av

Michigan Stove Co. (Steel & Cast), 1022 Jeff av
Peninsular Stove Co., 10th & W. Fort
Sun Stove Co. (Gas, Oil & Gasoline), 1305 Bellevue av
DOWAGIAC—Beckwith, P. D. (Est. of) ("Round Oak" Heating Stoves & Furnaces)
KALAMAZOO—Kalamazoo Stove Co.
LANSING—Bement & Sons
LAPPEER—Bostick, A. & Son

MINNESOTA.

MINNEAPOLIS—Northwestern Stove Co., 312 Hennepin av
SHAKOPEE—Minnesota Stove Co.

MISSOURI.

HANNIBAL—Duffy-Trowbridge Stove Co.
ST. LOUIS—American Stove Co., 414 N 6th
Bridge & Beach Mfg. Co., 501 S Main
Buck's Stove & Range Co., 3500 N 2d
Charter Oak Stove & Range Co., 1440 N Hagey Stove Co., 701 N Main
Majestic Mfg. Co., 2016 Morgan, St. Louis, Mo.

NEW HAMPSHIRE.

CONCORD—Ford, Wm. P. & Sons

NEW JERSEY.

DOVER—Richardson & Boynton Stove Co.
NEWARK—Thatcher Furnace Co. (Stoves & Ranges, Portable & Stationary)
PHILLIPSBURG—Atlantic Foundry

NEW YORK.

ALBANY—Albany Fdy. Co.
Littlefield Stove Co., No Pearl & Pleasant
Rathbone, Sard & Co.
Van Wormer, J. & Co.
AMENIA—Fry, B. H.
BUFFALO—Jewett & Co., 32 Mississippi
CORNING—Corning Stove Co.
CORTLAND—Cortland Home Ventilating Stove Co.
FRIENDSHIP—Drake Hdw. Co. (Stoves & Dairy Goods)
GENEVA—Phillips & Clark Stove Co.
Summit Fdy. Co.
MANLIUS—Cheney, S. & Son
NEW YORK—Abendroth Bros., 109 Beekman
American Stove Co., 356 Fourth av (Branch of St. Louis, Mo., Office)
Boynton Furnace Co., 207 Water
Graft Furnace Co., 208 Water
Mott, J. L. Iron Works, 118 Fifth av
Munsell & Co., 218 Water
Richardson & Boynton Co., 234 Water
Richardson & Morgan Co., 92 Beekman
Southard-Robertson Co. (Stoves & Ranges of all kinds), 257 Water, New York, N. Y.
Thatcher Furnace Co. (Stoves & Ranges, Portable & Stationary), 110 Beekman
PEEKSKILL—Crane, Wm. M. & Co.
New York Stove Works
Southard, Robertson & Co.
Union Stove Works (Furnaces, Ranges, etc.)
PORT JERVIS—Swinton & Co. Heaters, etc.)
ROCHESTER—Co-Operative Fdy. Co.
Galusha Stove Co.
Sill Stove Works
SYRACUSE—Syracuse Stove Works ("Kernan-Welcome" Stoves, Ranges & Furnaces)
TROY—Burdett-Smith & Co.
Empire Stove Co.
Fuller & Warren Co.
Gold Coin Stove Co.
UTICA—Giblin & Co. (Stoves & Ranges)
Phoenix Iron Works, 181 Blandina
WEST TROY—West Side Fdy. Co.

NORTH CAROLINA.

GREENSBORO—Glascock, Stove & Foundry Co. (Cooking & Heating Stoves)

OHIO.

AKRON—Fleberger Heating Co. ("Ath-A-Nor" Heaters)
Taplin, Rice & Co. (Climax Stoves & Ranges)
BELLAIRE—Bellaire Stove Co.
CINCINNATI—Huenefeld, E. H. Co., Inc. (also Ranges, "Boss," "Uneda," "Success" & Selma), Springrove av & Straight

CINCINNATI—Huenefeld, E. H. (also Ranges), 225 E 9th
 Klaine, F. A. & Co., Front & Central av
 Knecht, Victor, 819 Wade
 Miller, Wm. Range & Fur. Co., 125 E 5th
 Resor, Wm. & Co., c H. & D. Ry nr Gest
 Schulte, Jno. A. & Co., 2619 Colerain av
 CLEVELAND—Cleveland Co-Op. Stove Co., 1230
 COLUMBUS—Emrich, C. Central av
 Hertenstein, M. & Co.
 Lattimer-Williams Mfg. Co. (L. W. Stoves
 & Ranges), Columbus, O.

Pioneer Stove Co.
 DAYTON—Gem City Stove Co.
 Kinsey Mfg. Co.
 ELYRIA—Fox Furnace Co. (Furnaces, Ranges
 & Stoves)
 FOSTORIA—Atlas Mfg. Co.
 GALLIPOLIS—Kling Stove Co.
 Thompson & Francis Stove Co.
 Treasure Stove Co.
 HAMILTON—Kahn, F. & L. & Bros.
 HILLSBORO—Bell, C. S. Co. (Heavy Heating
 IRONTON—Foster Stove Co. & Caboose)
 MANSFIELD—Baxter Stove Co.
 Eclipse Stove Co. (Stoves & Ranges)
 MARIETTA—Marietta Mfg. Co.
 Nye, A. T. & Son Co.
 MARTINS FERRY—Spence-Baggs Stove Co.
 MASSILON—Hess, Snyder Co. (Heating & Cook-
 ing, Boomer)
 NEWARK—Central City Stove Works
 Wehrle Co. (Stoves & Ranges)
 PIQUA—Favorite Stove & Range Co.
 PORTSMOUTH—Neill Stove Mfg. Co.
 Ohio Stove Co.
 Portsmouth Stove & Range Co.
 SALEM—Victor Stove Co.
 Woodruff, J. & Sons (Stoves & Ranges)
 SPRINGFIELD—Mentels, Theo., Progress Fur-
 nace & Stove Co.
 TIFFIN—Herrmann & Myers
 TOLEDO—Toledo Stove & Range Co. ("Gem"
 Stoves & Ranges)
 YOUNGSTOWN—Youngstown Stove & Range
 ZANESVILLE—Jones, Chas. H. Co.
 Union Foundry Stove Co.

OREGON.

PORTLAND—Air Tight Stove Mfg. Co., 312 1st
 Lowenberg & Going Co. (Stoves, Ranges,
 SALEM—Loewenberg & Going Co. etc.)

PENNSYLVANIA.

ALLEGHENY—Pittsburg Stove & Range Co.,
 Robinson c Darragh
 BEAVER FALLS—Howard Stove Co.
 BRISTOL—Harkins, T. B. Foundry Co. (Stoves,
 Ranges & Furnaces)
 CANONSBURG—Simpson Stove Mfg. Co.
 COLUMBIA—Keeley Stove Co. ("Columbian"
 Stoves, Ranges & Furnaces)
 CONSHOHOCKEN—Messinger's, H. C. Sons
 DANVILLE—Danville Stove & Mfg. Co.
 ERIE—Germer Stove Co.
 South Erie Iron Works
 LEBANON—Lebanon Stove Works.
 LEHIGHTON—Lehigh Stove & Mfg. Co.
 Leighton Foundry & Machine Co.
 MIDDLETOWN—Raymond Mfg. Co.
 PHILADELPHIA—Cox, Abram Stove Co.,
 American c Dauphin
 Dilley, Caskey & Co., 6th c Berks
 Hellman, A. Stove Co., York cor Thompson
 Liberty Stove Co., 114 N 2d
 Phila. Stove & Iron Foundry Co. (Furnaces,
 Stoves & Ranges), 1631 N 5th
 Sheppard, Isaac A. & Co. (Furnaces, Stoves
 & Ranges), 1801 N 4th
 Thomas, Roberts, Stevenson & Co., 3rd &
 McKean
 PITTSBURG—Bartlett Furnace & Range Co.,
 715 Liberty av
 Stove & Range Co. of Pittsburg.
 PITTSSTON—Pittston Stove Co. (Stoves,
 Ranges, etc., "Pittston" & "Happy
 Thought")
 POTTSTOWN—March-Brownback Stove Co.
 ("Globe" Ranges, etc.)
 QUAKERTOWN—Roberts, Winner & Co.
 READING—Mt. Penn Stove Co.
 Orr, Painter & Co. ("Sunshine" Stoves,
 Ranges & Heaters)
 Prizer-Painter Stove & Heater Co. (Stoves
 & Heaters)
 ROCHESTER—Olive Stove Works
 ROYERSFORD—Buckwalter Stove Co. (Stoves,
 Ranges, Furnaces, etc.)
 Floyd-Wells Co.
 Grandeur Stove Co. (Stoves, Portable & Brick
 Set Ranges, Heaters & Furnaces)
 SCRANTON—Scranton Stove Works

SINKING SPRINGS—Sinking Springs Foundry
 Co.
 SPRING CITY—Keystone Stove Foundry
 (Ranges, Heaters, etc.)
 Yaeger-Hunter Spring City Stove Works
 YORK—Broomell, Schmidt & Stacy Co., Inc.
 (Heating Cook House, Heating from Kitchen
 Fire)

RHODE ISLAND.

PROVIDENCE—Barstow Stove Co.

TENNESSEE.

CHATTANOOGA—Chattanooga Stove Co.
 Gibson-White Foundry Co.
 Mountain City Stove Mfg. Co.
 CLEVELAND—Haward Stove Co.
 KNOXVILLE—Fair Foundry Co.
 MEMPHIS—Wetter H. Mfg. Co. (Stoves,
 Ranges, etc.), Works: South Pittsburg,
 Tenn.
 White, John & Son, 645 Dunlap av
 NASHVILLE—Phillips & Buttorff Mfg. Co.
 SOUTH PITTSBURG—Blacklock Fdy. Co.
 Wetter, H. Mfg. Co.

VIRGINIA.

NORFOLK—Columbia Stove Co.
 RICHMOND—Continental Stove Co.
 Richmond Stove Co.
 Southern Stove Works.
 WAYNESBORO—Loth, W. J. Stove Co.

WEST VIRGINIA.

HUNTINGDON—Huntingdon Stove & Foundry
 Co.
 RICHMOND — Richmond Pattern Works
 (Stoves & Ranges)
 WHEELING—Wheeling Stove & Range Co.

WISCONSIN.

BEAVER DAM—Malleable Iron Range Co.
 (Ranges)
 LA CROSSE—Summit Foundry Co.
 MILWAUKEE—Brand Stove Co. (Stoves,
 Ranges, etc.)
 Fuller-Warren Co., 32d c Wright
 Lindemann, A. J. & Hoverson Co., 348
 Florida
 Lindemann, J. P. & Sons, 78 Water
 Milwaukee Stove & Foundry Co., 130 W
 NEENAH—Bergstrom Bros. Water

Stove Manufacturers of CANADA.

BRANTFORD—Buck, W. Stove Co.
 BROCKVILLE—Smart, James Mfg. Co.
 CARLETON PLACE—Finlay Bros.
 GUELPH—Griffin, Thos.
 HAMILTON—Bowes, Jamieson & Co.
 Burrows, Stewart & Milne
 Gurney, Tilden & Co.
 McClary Mfg. Co.
 Moore, D. & Co.
 KINGSTON—Chown, Edwin & Son
 LONDON—McClary Mfg. Co.
 MONCTON, N. B.—Record Fdy. & Mach. Co.
 MONTREAL—Clendenning, S.
 Ives, H. R. & Co.
 PRESTON—Clare Bros.
 SARNIA—Doherty Mfg. Co.
 SMITHS FALLS—Frost & Wod Co.
 TORONTO—Gurney Foundry Co., Ltd. (Stoves,
 Gurney-Tilden Co. etc.)
 WESTON—Moffat Stove Co.

Stove Mats

Alliance Asbestos Mfg. Co. (Asbestos), Alli-
 ance, O.
 Oil City Asbestos Co., Oil City, Pa.

Stove Pipe & Elbow Mfrs.

Budke Mfg. Co., 421 Wood, Pittsburg, Pa.
 Chattanooga Roofing & Fdry. Co., Chattanooga,
 Tenn.
 Cleveland Elbow Co., 39 Center, Cleveland, O.
 Dover Stamping & Mfg. Co., Cambridge, Mass.
 EDWARDS MFG. CO. (Nested), Eggleston
 av, 4th & 5th, Cincinnati, O. (See adv. in-
 dex & branch offices, end of book)
 Excelsior Steel Furnace Co., 40 W Monroe,
 Chicago, Ill.
 Geuber & Paeschke Mfg. Co., Milwaukee, Wis.

Grinberg Bros., 154 South, N. Y.
 Hemp & Co., St. Louis, Mo.
 INDIANAPOLIS STEEL ROOFING &
 Corrugating Co., Indianapolis, Ind. (See
 adv. index, end of book)
 Jackes-Evans Mfg. Co., St. Louis, Mo.
 Lawrence-Letts Elbow Co. ("O. H."), Wa-
 verly, N. Y.
 Ohio Stove Pipe & Mfg. Co. ("Smith's" Dou-
 ble Lock Nested), New Phila., Ohio
 Reeves Mfg. Co., Canal Dover, O.
 Republic Metalware Co., Buffalo, N. Y., & 21
 Cliff, New York
 Shepard, Sidney & Co., Buffalo, N. Y.
 Sheet Metal Mfg. Co., Niles, O.
 Thomas & Fenton, Mahanoy City, Pa.
 Troy Stamping Works, Troy, N. Y.
 Wheeling Corrugating Co., Wheeling, W. Va.
 Winfield Mfg. Co., Warren, O.
 Wods-Everiz Stove Co., Springfield, Mo.

Stove Polish

ATLAS PAINT CO. (Ltd.), 2638 Lib-
 erty av, Pittsburg, Pa. (See adv. index,
 end of book)
 Black Silk Stove Polish Works ("Black Silk"),
 Sterling, Ill.
 Cambria Paint & Color Co. (Ltd.) ("Sherman's"
 Liquid), Johnstown, Pa.
 Cullen, F. C. & Co. (Aluminine), 704 W. Lake,
 Chicago, Ill.
 Detroit Stove Polish Co. (Ebony), Detroit,
 Mich.
 DIXON, JOS. CRUCIBLE CO. ("Dix-
 on's" Graphite of Iron), Jersey City, N. J.
 (See adv. index & branch offices, end of
 book)
 Morse Bros. ("Rising Sun"), Canton, Mass.
 Nickel Plate Stove Polish Co. ("Black Kid"),
 461 Illinois, Chicago, Ill.
 Rath Mfg. Co. ("Imperial"), 2nd, Hancock &
 Laural, Phila., Pa.
 RUTLAND FIRE CLAY CO., Rutland,
 Vt. (See adv. index & branch offices, end
 of book)
 Satin Gloss Polish Co., Portland, Me.
 Tarbox Mfg. Co. ("Tarbox" Stove Gloss), New
 London, Conn.

Stove Trimmings

American Tube & Stamping Co. (Nickel-Plated
 Steel Stove Edge), Bridgeport, Conn.
 Burdick & Son (Specialties), Albany, N. Y.
 Consolidated Mfg. Co., Toledo, O.
 Dary, Marcus A., Taunton, Mass.
 Fauner Mfg. Co., Cleveland, O.
 Gaitley, Jno. E., Troy Nickel Works (The
 "Alaska"), Albany, N. Y.
 Ireland & Matthews Mfg. Co. (In All Metals),
 Detroit, Mich.
 Matthews Mfg. Co., Worcester, Mass.
 N. Y. Nickel Plating & Mfg. Co., 125 Watts,
 N. Y.
 Troy Nickel Works (Jno. E. Gaitley, Prop.)
 ("Alaska"), Albany, N. Y.
 WORCESTER PRESSED STEEL CO.
 (See adv. index, end of book)

Stoves (Acetylene)

Harris, J. Co. (Also Ranges), Cleveland, O.

Stoves (Alcohol Vapor)

Landers, Frary & Clark ("Universal"), New
 Britain, Conn.

Stoves (Brass Founders' Drying)

Barnett, Oscar Foundry Co. (Round & Square),
 Newark, N. J.

Stoves (Caboose)

Bell, C. S. Co. (Also Heavy Heating), Hills-
 boro, Ohio
 Buda Foundry & Mfg. Co. ("Volcano,"
 "Lewis"), Railway Exchange bldg, Chi-
 cago, Ill. Works, Harvey, Ill.
 Michigan Stove Co., Detroit, Mich.
 Pittsburg Stove & Range Co., Pittsburg, Pa.
 Stove & Range Co. of Pittsburg, Pittsburg, Pa.
 WILSON, F. CORTEZ & CO. (Freight Car
 Heaters), 239 Lake, Chicago, Ill. (See adv.
 index, end of book)

Stoves (Car)

Buda Foundry & Mfg. Co. ("Volcano,"
 "Lewis," "Giant," Car-Way Caboose &
 Station), Railway Exchange bldg, Chicago,
 Ill. Works, Harvey, Ill.

Germer Stove Co. ("Radiant," Car Furnace), Erie, Pa.
 McGuire Mfg. Co., 122 N Sangamon, Chicago
 Michigan Stove Co., Detroit, Mich.
 Murray Iron Works Co., Burlington, Ia.
 Peninsular Stove Co., Detroit, Mich.

Stoves (Confectioners')

Mt. Penn Stove Works, Reading, Pa., & 111 N 2d, Philadelphia, Pa.
 White, Chas. H. & Co., (Gas or Coal), 22 Bowker, Boston, Mass.

Stoves (Gasoline)

American Stove Co. ("Quick Meal," "Jewell" & "Monarch"), 414 N 6th, St. Louis, Mo.
 Champion Foundry & Foundry Co., Burlington, Ia.
 Clark, Geo. A. & Co. (The Jewell), 72 Lake, Chicago, Ill.
 Cook Mfg. Co., Albion, Mich.
 Insurance Foundry Co., Covington, Ky.
 Kinsey Mfg. Co. ("Kinwood"), Dayton, O.
 Michigan Stone & Caster Co., Grand Rapids, Mich.
 Sun Vapor Stove Mfg. Co., Detroit, Mich.
 Toledo Cooker Co., ("Ideal"), Toledo, O.

Stoves, Heaters & Ranges (Gas)

Abendroth Bros. Corp. (Stoves & Ranges), 109 Beekman, N. Y.
 Acme Sheet Metal Co. (Leader), Martins Ferry, O.
 Albany Foundry Co. ("Argand" Ranges), Albany, N. Y.
 American Beauty Gas Stove Works ("American Beauty"), Erie, Pa.
 American Stove Co. ("Quick Comfort" Heaters & "Reliable" & "Jewell" Stoves), St. Louis, Mo.
 Bartlett, J. C. Co., Pittsburg, Pa., & West Newton, Pa.
 Brand Stove Co. ("Famous" Gas Ranges), Milwaukee, Wis.
 Bryan Mfg. Co. ("Bryan"), 1900 F'k'd av, Baltimore, Md.
 Central Oil & Gas Stove Co. (no Ranges), Gardner, Mass.
 Clark, Geo. M. & Co. ("Jewel"), 72 Lake, Chicago, Ill.
 Cleveland Foundry Co. (Stoves & Ranges), Cleveland, O.
 Co-operative Foundry Co., Rochester, N. Y.
 Crane, Wm. M. Co. (Stoves, Heaters & Ranges), 1131 B'way, N. Y.
 Criterion Gas Stove Mfg. Co. (Inc.), 445 G'wich, N. Y.
 Cutter & Proctor Stove Co. ("Regal Peoria"), Peoria, Ill.
 Dangler Stove & Mfg. Co. ("Gem"), 365 Perkins av, Cleveland, O.
 Detroit Heating & Lighting Co. (Stoves & Ranges), Wight nr Leib, Detroit, Mich.
 Detroit Stove Works (Stoves & Ranges), Detroit, Mich.
 Detroit Vapor Stove Co., 419 Franklin, Detroit, Mich.
 Eclipse Gas Stove Co., Rockford, Ill.
 Gilbert & Barker Mfg. Co., Springfield, Mass.
 Economy Gas Stove Co., Kalamazoo, Mich.
 Eriez Stove & Mfg. Co., Erie, Pa.
 Gem City Stove Co. ("Clermont" & "Perfect"), Dayton, O.
 Gilbert & Barker Mfg. Co. (Astral), Springfield, Mass.
 Goldstein, Jos., 323 Pearl, N. Y.
 Griswold Mfg. Co. (Classic), Erie, Pa.
 Ideal Mfg. Co. (Ranges Only), 546 Franklin, Detroit, Mich.
 Independent Mfg. Co., 154 Champlain, Cleveland, Ohio
 Johnson Machine Co., Uniontown, Pa.
 Kahn, F. & L. & Bros. ("Charmer" & "Comfort"), Hamilton, O.
 Kaufman, A. G. Mfg. Co. ("Radion" Portable Gas Jet, Heater & Cooking Stove), 133 Reade, New York
 Kinsey Mfg. Co., Dayton, O.
 Klingelhoff, Wm. & Co. ("Perfect"), 1428 5th av, Pittsburg, Pa.
 Lev, John P., 244 Water, New York
 Manhattan Gas Heating Co. ("Manhattan"), 909 7th av, N. Y.
 Maryland Foundry Co. (A. Weiskittle & Son, Prop'rs), Baltimore, Md.
 Maryland Meter Co., North & Saratoga, Baltimore, Md.
 Michigan Stove Co. ("Garland"; also Appliances), Detroit, Mich.
 Milwaukee Gas Stove Co., 139 Burrell ("Perfection"), Open Grate & Heaters), Milwaukee, Wis.

Munsell, Eugene & Co., 218 Water, N. Y.
 National Enameling & Stamping Co., 374 B'way, New York, & St. Louis, Mo.
 National Light & Heating Co. (Stoves, etc.), Freeport, O.
 New Method Co. (For Natural Gas Heating & Cooking), Mansfield, O.
 New York Gas Stove Works, 243 Water, N. Y.
 Novelty Mfg. Co. (Heaters Only), Jackson, Mich.
 Odin Stove Mfg. Co., Erie, Pa.
 Peerless Stove & Range Co. ("Radium," "Peerless"), Columbus, O.
 Peninsular Stove Co., 10th & W Fort, Detroit, Mich.
 Perfect Gas Stove Mfg. Co. (Wilson Odorless), Huntington, W. Va.
 Phillips Gas Stove Works, 420 E 8th, Cincinnati, O.
 Plume & Atwood Mfg. Co., Waterbury, Conn.
 Progress Furnace Co., Springfield, O.
 Rathbone, Sard & Co. ("Acorn" Gas Ranges, etc.), Albany, N. Y., & Aurora, Ill.
 Rund Mfg. Co., 307 Wood, Pittsburg, Pa.
 Sheridan Stove Co., Quincy, Ill.
 Snodgrass Gas Range Co., Idlewood, Pa.
 Southard-Robinson Co., 257 Water, New York.
 Stamford Gas Stove Co., Stamford, Conn.
 Standard Lighting Co. ("New Process" Steel Gas Ranges, etc.), Cleveland, O.
 Star Foundry Co., Covington, Ky.
 Stephenson Mfg. Co. ("Zenith" Ranges), Allegheny, Pa.
 Stewart, Samuel, 224 High, Newark, N. J.
 Sunray Stove Co. ("Sunray"), Newark, O.
 Thomas-Roberts-Stevenson Co., 3rd & McKean, Phila, Pa.
 Transcendent Lamp Co. ("Transcendent" Kerosene), 134 Mott, N. Y.
 Union Stove Works ("Astor" Radiator"), 70 Beekman, N. Y., & Peekskill, N. Y.
 Weiskittle & Son ("Fire King" Gas Radiator), Aliceanna & Wash'n, Baltimore, Md.
 White, Thos. Stove Co. ("Bacon"), Quincy, Ill.
 Yale Gas Stove Co., New Haven, Conn.

*Stoves (Hot Blast)

AMSLER ENGINEERING CO., Diamond Bank bldg., Pittsburg, Pa. (See adv. index & branch offices, end of book)

*Stoves (Hot Blast, Three Pass)

AMSLER ENGINEERING CO., Diamond Bank bldg., Pittsburg, Pa. (See adv. index & branch offices, end of book)

Stoves (Laundry)

American Stove Co. (Gas), St. Louis, Mo.
 Crane, W. M. Co., 1133 B'way, New York
 Detroit Stove Works ("Paragon"), Detroit, Mich.
 Eclipse Stove Co., Mansfield, O.
 Fischer, Wm. G. Stove & Range Co., 325 Race, Cincinnati, O.
 Excelsior Stove & Mfg. Co., Quincy, Ill.
 Hawkins, Rollyn Co., 322 E Market, Indianapolis, Ind.
 Its, John G. & Co., San Francisco, Cal.
 Illinois Malleable Iron Co. ("Imico" Heater), 30 W Monroe, Chicago, Ill.
 Malleable Steel Range Mfg. Co., South Bend, Ind.
 Mahony Mfg. Co., Troy, N. Y.
 Michigan Stove Co., Detroit, Mich.
 Miller, Wm. Range & Furnace Co., 125 E 5th, Cincinnati, O.
 Moser, M. J. & Co., W. Troy, N. Y.
 Novelty Iron Co. ("Our Own," "Chicago"), Canton, O.
 Rollyn, Hawkins Co., 326 E Market, Indianapolis, Ind.
 Stephenson Mfg. Co. ("Zenith"), Allegheny, Pa.
 Walker & Pratt Mfg. Co., 33 Union, Boston, Mass.

*Stoves (Masons')

DROUVE, G. CO., 40 Tulip, Bridgeport, Conn. (See adv. index, end of book)

Stoves (Oil)

(See Stoves & Heaters, Oil.)

Stoves (Plasterers')

DROUVE, G. CO., 40 Tulip, Bridgeport, Conn. (See adv. index, end of book)
 Eagle Iron Works (Inc.), ("May's"), 850 De Kalb av., Brooklyn, N. Y.

Fleck, M., 442 Pleasant av, New York
 Union Elevator & Machine Co., 144 Ontario, Chicago, Ill.
 White, Chas. H. & Co. (Coal or Coke), 22 Bowker, Boston, Mass.

Stoves & Heaters (Oil)

American Stove Co. ("Quick Meal," "Reliable"), 414 N 6th, St. Louis, Mo.
 Barler, A. C. Mfg. Co. ("Ideal"), 104 Lake, Chicago, Ill.
BRADLEY & HUBBARD MFG. CO. ("B. & H."), Meriden, Conn. (See adv. index, end of book)
 Central Oil & Gas Stove Co. ("Florence"), Gardner, Mass.
 Chicago Wheel & Mfg. Co. ("Gem"), 40 W Randolph, Chicago, Ill.
 Cleveland Foundry Co. ("Puritan" Cooking & Heating), 63 Platt, Cleveland, O.
 Coldwater Oil Stove Co., Coldwater, Mich.
 Dangler Stove & Mfg. Co., 365 Perkins av, Cleveland, O.
 Glazier Stove Co., Chelsea, Mich.
 Goldstein, Jos., 323 Pearl, N. Y.
 Griswold Mfg. Co., Erie, Pa.
 Hydrocarbon Burner Co. (Khotal), 197 Fulton, N. Y.
 Kinne Mfg. Co. ("Perfection"), 1124 S 3rd, Minneapolis, Minn.
 Kinsey Mfg. Co., Dayton, O.
 Manhattan Brass Co., 338 E 28th, N. Y.
 Maryland Foundry Co. ("The King") (A. Weiskittle & Son, Prop'rs), Baltimore, Md.
 Michigan Hardware Mfg. Co. ("Blue Flame" Oil Stoves), Grand Rapids, Mich.
 Miller, Edw. & Co. ("Miller" Kerosene Heaters), Meriden, Conn., & 28 W B'way, N. Y.
 National Enameling & Stamping Co., 374 B'way, New York, & St. Louis, Mo.
 National Stove Co. (American Stove Co.), Lorain, O.
 New York Gas Stove Works (The King), 243 Water, N. Y.
 Novelty Mfg. Co. (Aluminum, Electric), Jackson, Mich.
 Page Bros. & Co. ("Beauty"), 227 Cambridge, Boston, Mass.
 Plume & Atwood Mfg. Co. ("Banner"), Waterbury, Conn.
 Rochester Lamp Co. ("Rochester"), 38 Park pl, N. Y.
 Rose, C. G. (Stoves), Jeffersonville, Ind.
 Standard Lighting Co. ("New Process"), 16 Perkins, Cleveland, O.
 Toledo Cooker Co. ("Ideal"), Toledo, O.
 Waterbury Brass Goods Corp. (Heaters only), Waterbury, Conn.
 Weiskittle, A. & Son ("Fire King"), Aliceanna & Wash'n, Baltimore, Md.
 Wotherspoon, Jas. R., 430 Race, Phila, Pa.

Stoves & Ranges (Gas)

(See Stoves, Heaters & Ranges, Gas.)

Straddler for Embedding Tie Plates

Pittsburg Tool & Drop Forge Co. ("Cheswick"). Works, Cheswick, Pa.

Straight Edges

Athol Machine Co. (Steel Hardened & Ground), Athol, Mass.
 Atkins, E. C. & Co. (Inc.), Home Offices & Factories, Indianapolis, Ind.
 Baldwin, Tuthill & Bolton, Grand Rapids, Mich.
 Brown & Sharpe Mfg. Co. (Cast Iron, Knife Edge, Steel Hardened & Ground), Providence, R. I.
 Covel Mfg. Co. (Saw), Benton Harbor, Mich.
 Disston, Henry & Sons (Inc.), Tacony, Phila., Pa., & 75 W Washington, Chicago, Ill.
 Hub Machine & Tool Co. (Cast Iron), 621 Cherry, Phila., Pa.
 Keuffel & Esser Co. (Steel Flexible), 127 Fulton, New York
 Massachusetts Tool Co. (Steel Hardened & Ground), Greenfield, Mass.
 Pratt & Whitney Co. (Knife Edge), Hartford, Conn.
 Rogers, John M. Boat Gauge & Drill Works (Cast Iron), Gloucester City, N. J.
 Sawyer Tool Mfg. Co. (Steel Hardened & Ground), Fitchburg, Mass.
 Simonds Mfg. Co., Fitchburg, Mass.
 Standard Tool Co., Cleveland, O.
 Starrett, L. S. Co. (Steel Hardened & Ground), Athol, Mass.

***Strainers (Conductor)**

EDWARDS MFG. CO., Eggleston av.
4th & 5th, Cincinnati, O. (See adv. index & branch offices, end of book)
WRIGHT WIRE CO., Worcester,
Mass. (See adv. index & branch offices, end of book)

***Strainers (Galvanized Flanged)**

ABENDROTH & ROOT MFG. CO., New-
burgh, N. Y. (See adv. index and branch offices, end of book)

***Strainers (Gasoline)**

LUNKENHEIMER CO., General Of-
fices & Works, Beekman & Waverly, Cin-
cinnati, O. (See adv. index & branch of-
fices, end of book)

***Strainers (Gutter)**

BERNZ, OTTO, S 13th & S Orange av.
Newark, N. J. (See adv. index, end of book)
MILWAUKEE CORRUGATING CO.,
Milwaukee, Wis. (See adv. index, end of
book)

Strainers (Hose)

Elkhart Brass Mfg. Co. (Brass Suction for
Fire Dept.), Elkhart, Ind.
HANCOCK INSPIRATOR CO., THE, 85,
87, 89 Liberty, New York. (See adv. index
& branch offices, end of book)

***Strainers (Injector)**

LUNKENHEIMER CO., General Offices &
Works, Beekman & Waverly, Cincinnati, O.
(See adv. index & branch offices, end of
book)

Strainers (Pipe)

Pancoast, Henry B. & Co. ("Extra Leaky"),
243 S 3d, Phila., Pa.

Strainers (Sink)

Andrews Wire & Iron Works ("Vrooman's"),
Rockford, Ill.
Farber Mfg. Co. (Painted & Enameled), Ash-
tabula, O.
Frost Mfg. Co. (Basin & Sink), Kenosha, Wis.
NATIONAL MFG. CO. (Wire), Worcester,
Mass. (See adv. index & branch offices,
end of book)
Parker Wire Goods Co. (Wire), Worcester,
Mass.
Pritchard-Strong Co., Rochester, N. Y.
Voelkner & Reinke Mfg. Co. (Trap Bath Tub,
etc.), 123 W Woodbridge, Detroit, Mich.
Vrooman, F. H. & E. B. (Vitreous Enameled
Steel, "Peerless"), 325 Dearborn, Chicago,
Ill.
Wire Goods Co., Worcester, Mass.

Strainers (Suction)

Liberty Mfg. Co. ("Liberty" Twin), 6509 Sus-
quehanna, Pittsburg, Pa.
Merrill, G. U. ("Merrill's" Ideal Twin), Pat-
erson, N. J.
Uncas Specialty Co. ("Leavitt"), Norwich,
Conn.

**Strainers & Separators (Gas-
oline)**

Boss Mfg. Co. ("Boss"), Atlantic, Mass.
Breeze Motor Mfg. Co. ("Breeze"), 31 Court,
Newark, N. J.
Columbus Brass Co., 41 N 4th, Columbus, O.
Fairmount Engineering Co. ("Chadwick"),
3205 Spring Garden, Phila., Pa.
Hatcher Auto Parts Co., 138 Vladuct, Clevel-
and, O.
Winkley Co. ("Eureka"), Detroit, Mich.

Straps (Anchor)

Lanz, M. & Sons, 101 S 29th, Pittsburg, Pa.
WISCONSIN IRON & WIRE WORKS, 190
E Water, Milwaukee, Wis. (See adv. in-
dex, end of book)

Straps (Beam)

Steel City Electric Co., Pittsburg, Pa.

Straps (Box)

(See Box Straps.)

Straps (Crate)

(See Box Straps.)

***Straps (Deckle)**

BOSTON BELTING CO. (For Foundrinier
Paper Machines), 260 Devonshire, Boston,
Mass. (See adv. index & branch offices,
end of book)

Straps (Hand Hold)

Sterling-Meeker Co. (For Cars), 420 Ogden,
Newark, N. J.

Straps (Pipe)

American Pin Co. (Brass), Waterbury, Conn.
Berger Bros. Co., 237 Arch, Philadelphia, Pa.
Boston Brass Co., 36 Oliver, Boston, Mass.
Cann & Saul, 516 Commerce, Phila., Pa.
Devlin, Thos. Mfg. Co. (Malleable Iron), 3d &
Lehigh av, Phila., Pa.
Diamond Stamped Ware Co., Detroit, Mich.
Evory Mfg. Co., 102 John, New York
Falls Mfg. Co., San Francisco, Cal.
Fee & Mason, 81 Beekman, New York.
Illinois Malleable Iron Co., 30 W. Monroe,
Chicago, Ill.
Lalance & Crosjean Mfg. Co. (Wrought Steel
Gas, etc.), 19 Cliff, New York
Smith & Egge Mfg. Co. (Single & Double),
Bridgeport, Conn.
Steele & Johnson Mfg. Co., Waterbury, Conn.
Walworth Mfg. Co., 132 Federal, Boston, Mass.
Wolff, L. Mfg. Co., 117 W Lake, Chicago
Wolverine Brass Works (Tinned), Grand
Rapids, Mich.

Straps (Pole)

American Iron & Steel Mfg. Co., Lebanon, Pa.
ANDERSON FORGE & MACHINE CO., 271
Guolin, Detroit, Mich. (See adv. index,
end of book)
Continental Bolt & Iron Works, 22d & Union,
Chicago, Ill.
Lanz, M. & Sons, 101 S 29th, Pittsburg, Pa.

**Straps (Skate, Trunk, Blanket,
Etc.)**

Graton & Knight Mfg. Co., Worcester, Mass.
HUDSON BELTING CO. (Trunk, etc.),
Worcester, Mass. (See adv. index, end of
book)
Kelton-Bruce Mfg. Co., Salem, Mass.

Straps (Timber)

American Iron & Steel Mfg. Co., Lebanon, Pa.
Kansas City Bolt & Nut Co. (Also Bridge,
Kansas City, Mo.

Strawboard Mfrs.

Barrett Mfg. Co., Land Title bldg, Phila., Pa.
Eastern Straw Board Co., Manchester, Conn.

Street Lighting

Automatic Incandescent Light Co., Northboro,
Mass.
Best Light Co., Canton, O.
Momand Street Lighting Co. of Am., Broad &
Arch, Phila., Pa.
Transcendent Lamp Co. (Transcendent Sys-
tem), 134 Mott, N. Y.
Welsbach Street Lighting Co. (of America),
Broad & Arch, Phila., & Chicago, Ill.

Street Lighting (Sun Vapor)

(See Lamps, Incandescent Vapor Gas.)

Street Plows

(See Plows, Contractors, etc.)

Street Railway Sprinkling Cars

(See Cars, Sprinkling, Street Railway.)

Street Sprinkler Wagon Tanks

Acme Road Machinery Co., Frankfort, N. Y.
KOVEN, L. O. & BRO., 50 Cliff, New York.
(See adv. index, end of book)
Littleford Bros., 455 E Pearl, Cincinnati, O.

**Street Sprinkling Carts &
Wagons**

Abbott, Downing Co., Concord, N. H.
ACME ROAD MACHINERY CO., Frankfort,
N. Y. (See adv. index, end of book)
Austin Mfg. Co., Harvey, Ill., & Manhattan
bldg, Chicago, Ill.
Etnyre, E. D. & Co., Oregon, Ill.
Klisinger-Ison Co., 466 Pioneer, Cincinnati, O.
Lansing Wheelbarrow Co. (Carts), Lansing,
Mich.
Longenecker, Chas. & Co., 150 Nassau, New
York, N. Y.
SCHOLL, JULIAN & CO., 126 Liberty, New
York. (See adv. index & branch offices,
end of book)
Sherman, I. N. W., 144 S. Green, Chicago, Ill.
Studebaker Bros. Mfg. Co., South Bend, Ind.
Winkler Bros. Mfg. Co., South Bend, Ind.
Winship Mfg. Co., Racine, Wis.
Woodhouse, J. S., 191 Water, New York

Street Sweepers (Hand)

Menzies Street Cleaner Co. ("Menzies" Street
Cleaner), Glens Falls, N. Y.
Sanitary Street Cleaning Co. ("Peerless"
Pickups), Washington, D. C.
STROUD, E. H. & CO., 36 LaSalle, Chi-
cago, Ill. (See adv. index, end of book)

Street Sweeping Bag Carriers

(See Carriers, Can & Bag, Street Sweeping)

Street Sweeping Machines

(See Machines, Street Sweeping.)

Stretchers (Carpet)

Arcade Mfg. Co., Freeport, Ill.
Braunsdorf-Miller Co. (Extension Handle),
Elizabeth, N. J.
Denison Mfg. Co., Warren, O.
Hunt, Helm, Ferris & Co. ("Star" Round
Bar), Harvard, Ill.
Johnson, Wm. (Hedenberg Works), Newark,
N. J.
Krauter & Co., Newark, N. J.
Montross, R. W. ("Excelsior" Stretcher &
Tack Hammer Combined), Galien, Mich.
Sitterly Novelty Works ("King"), Auburn,
N. Y.
Smith, Seymour & Son, Oakville, Conn.

Stretchers (Saw)

Baldwin, Tuthill & Bolton, Grand Rapids,
Mich.
Covel Mfg. Co., Benton Harbor, Mich.
Hanchett Swage Wks., Big Rapids, Mich.

Stretchers (Wire)

AMERICAN STEEL & WIRE CO.,
Rookery bldg, Chicago. (See adv. index,
and branch offices, end of book)
Arcade Mfg. Co. ("Warner," "Dean," "El-
wood" & "Little Grant"), Freeport, Ill.
Bailey, Nichols & Co. (Reeler & Stretcher),
Delavan, Ill.
Burr Mfg. Co. (Fence & Wire), 131 Viaduct,
Cleveland, O.
Cyclone Woven Wire Fence Co. ("Cyclone"),
Holly, Mich.
De Kalb Fence Co., De Kalb, Ill.
Dwiggins Wire Fence Co., Anderson, Ind.
Elliot & Reid Co., Richmond, Ind.
Enterprise Foundry & Fence Co., Indianapolis,
Ind.
Eureka Tempered Copper Works (for Electric
Wire, etc.), North East, Pa., & Chicago, Ill.
Gilbert & Bennett Mfg. Co., Georgetown, Conn.
Hunt, Helm, Ferris & Co. ("Star," "Elwood,"
Endless, "Dean," "Little Giant," "Self
Lock," "Sampson," "Big Giant"), Har-
vard, Ill.
Illinois Fence Machine Co., Leroy, Ill.
INTERNATIONAL FENCE & FIRE-
proofing Co. ("Ohio"), Buttes av, Co-
lumbus, O. (See adv. index, end of book)
Janesville Hay Tool Co., 59 Clark, Chicago,
Ill.

Keystone Fence Co. (Fence), Peoria, Ill.
 Leader Fence Machine Mfg. Co., St. Charles, Ill.
 Ludlow-Saylor Wire Co., 4th & Elm, St. Louis, Mo.
 Mason, W. H. & Co. (Bull Dog), Leesburg, O.
 Matthew & Miller, Sunbury, O.
 National Novelty Corp'n ("Bright-On" Wire Fence), 826 B'way, New York
 National Steel Corp'n, New Haven, Conn.
 Never Slip Wire Stretcher & Novelty Co., West Ney Mfg. Co., Canton, O.
 Pullman Mfg. Co., Rochester, N. Y.
 Schriener, O. P. & Co. ("I X L"), 208 Elm, Cincinnati, O.
 Standard Wire Fence Co., Canandaigua, N. Y.
 Townsend, F. J., Painted Post, N. Y.
WILCOX MFG. CO. (Wire & Fence), Aurora, Ill. (See adv. index, end of book)

Stringers (Ham)

Johnson, Wm. (Hedberg Works), Newark, N. J.
AMERICAN TAP & DIE CO., Greenfield, Mass. (See adv. index, end of book)

*Strippers (Ingot)

MORGAN ENGINEERING CO. (Electric & Hydraulic), Alliance, O. (See adv. index, end of book)

Structural Steel Work

(See Steel Structural Work.)

Stucco Mfrs.

American Gypsum Co., Cleveland, O.
 Cardiff Gypsum Plaster Co., Fort Dodge, Ia.
 Empire Gypsum Co., Garbutt, N. Y.
 Klee, Thomson Co., 327 E 40th, New York
 Lycoming Calcining Co., Williamsport, Pa.
 Michigan Gypsum Co. ("N. P." Finishing), Grand Rapids, Mich.
 Mineral City Plaster Co., Fort Dodge, Ia.
 United States Gypsum Co., 200 Monroe, Chicago, Ill., & Cleveland, O.

Stucco Retarder

Binns Stucco Retarder Co., Uhrichsville, O.
 Chemical Stucco Retarder Co., Webster City, Ia.
 Ohio Retarder Co., Port Clinton, O.
 Sheridan Stucco Retarder Co., Toledo, O.

Stucco Work

ARCHITECTURAL DECORATING CO., 643 S Jefferson, Chicago, Ill. (See adv. index, end of book)

Berger's, H. Sons, 101 4th av, New York
EMMEL, CHARLES, 383 Albany, Boston, Mass. (See adv. index & branch offices, end of book)

Fischer & Jirouch, 16 Scovill av, Cleveland, O.
 Forman Bros., 645 Gates av, Brooklyn, N. Y.
 Fowle, Herbert, 43 Bristol, Boston, Mass.
 Herter Bros., 489 5th av, N. Y.
 Keillett, Fred. G. & Co., 152 Valencia, San Francisco, Cal.

Klee-Thomson Co., 327 E 40th, N. Y.
 Lewis, Geo. W., 390 Knight, Providence, R. I.
 Prescott, D. Moody, Lowell, Mass.

Root, C. R., 104 Asylum, Hartford, Conn.
 Schneider, F. H., 120 Burnet, Syracuse, N. Y.
SEIFERT, FRANK A. PLASTIC RELIEF Co., 2646 Lawton av, St. Louis, Mo. (See adv. index, end of book)

SLEEP, ELLIOTT & KING CO., Inc., 562 W 23d, New York, & 351 Cambridge, Boston, Mass. (See adv. index, end of book)

Tognarelli & Voigt, 2310 Chestnut, Phila., Pa.
 Van Maideren, F., 5th av & Jumonville, Pittsburgh, Pa.
 Whitman, J. Franklin Co., 432 N 12th, Phila., Pa.

Studs (Lacing)

Tubular Rivet & Stud Co., Wollaston, Mass.

Studs (Metal)

Knapp Bros. Mfg. Co. ("Knapp's" for Plaster Fireproof Partitions), 123 Franklin, Chicago, Ill.
 Union Building Material Co. ("Union"), 1170 Bway, New York

Studs (Milled Iron)

American Iron & Steel Co., Lebanon, Pa.
 Blake & Johnson, Waterbury, Conn.
 Chicago Screw Co., 2 N Canal, Chicago, Ill.
 Cincinnati Screw & Tap Co., 2442 Beekman, Cincinnati, O.
 Corbin Screw Corporation, New Britain, Conn.
 Detroit Screw Works, 343 Franklin, Detroit, Mich.
 Dodge, Lewis H. Co. ("Special"), 144 Purchase, Boston, Mass.
 Haskeill, Wm. H. Mfg. Co., Pawtucket, R. I.
 Hope, Wm. H. & Co., Lowell, Mass.
 Hopedale Machine Co., Hopedale, Mass.
 Niagara Screw Co., Buffalo, N. Y.
 Pawtucket Mfg. Co., Pawtucket, R. I.
 Phila. Machine Screw Works, C24 Race, Philadelphia, Pa.
 Pittsburg Screw & Bolt Co., 25th & Liberty av, Pittsburg, Pa.
 Progressive Mfg. Co. (Also Steel, Brass, etc. To order only), Torrington, Conn.
 Reed & Curtis Machine Screw Co., Worcester, Mass.
 Rhode Island Tool Co., Providence, R. I.
 Worcester Machine Screw Co., Worcester, Mass.

*Stuff Chests

CALDWELL, W. E. CO., Brook & D., Louisville, Ky. (See adv. index, end of book)

Stuffers (Sausage)

Brecht, Gus. V., Butchers' Supply Co., 1201 Cass av, St. Louis, Mo.
 Landers, Frary & Clark, New Britain, Conn.
 Murray Iron Works Co. ("Stallman," Stearn & Draw-Cut, etc.), Burlington, Ia.
 Silver Mfg. Co. ("Wagner"), Salem, O.

Submarine Armor

(See Diving Apparatus)

Sugar Machinery

(Under this heading see the following classifications.)

Barrel Packers, Sugar.
 Batteries, Diffusion.
 Beet Sugar Machinery.
 Beet Washing & Slicing Machines.
 Cane Sugar Machinery.
 Carbonation or Saturation Plants.
 Centrifugals & Mixers, Sugar.
 Char Filters & Kilns.
 Clarifiers.
 Conveyors, Ribbon Scroll.
 Crushers, Sugar Cane.
 Crystalizers.
 Cube Sugar Apparatus.
 Defecators.
 Driers, Cane, Continuous.
 Evaporators, Multiple Effects.
 Filter Cloth.
 Filters, Bag.
 Filters, Mechanical.
 Furnaces, Bagasse.
 Granulators, Sugar.
 Heaters, Juice.
 Kilns, Lime.
 Mills, Sugar Cane.
 Pans, Vacuum.
 Portable Railways.
 Rollers & Pinions.
 Sugar Cane Unloading Apparatus & Conveyor.
 Sulphur Machines.
 Triturators.

BARREL PACKERS (SUGAR)

Hersey Mfg. Co., South Boston, Mass.

BATTERIES (DIFFUSION)

Cornell, J. B. & J. M. Co., 26th & 11th av, N. Y.
 Deeley, Robert & Co., 507 W 32d, New York
 Dyer Co., New England bldg, Cleveland, O.
 Kilby Mfg. Co., Cleveland, O.
 Krajewski-Pesant Co., 32 B'way, N. Y.
 Maschinenfabrik, Grevenbroich, 76 William, N. Y.
 Morris, Henry G., 333 Walnut, Phila., Pa.
 Pusey & Jones Co., Wilmington, Del.
 Walburn-Swenson Co., Monadnock bldg, Chicago, Ill.
 Whitney Iron Works Co., 861 Tchoupitoulas, New Orleans, La.

BEET WASHING & SLICING MACHINES

Allentown Fdry & Machine Works, Allentown, Pa.
 Bartlett, Hayward & Co., Continental bldg, Baltimore, Md., & 100 B'way, N. Y.
 Dyer Co., New England bldg, Cleveland, O.
 Maschinenfabrik, Grevenbroich, 76 William, New York

CANE SUGAR MACHINERY

Allentown Fdry & Machine Works, Allentown, Pa.
 Cornell, J. B. & J. M. Co., 26th & 11th av, N. Y.

CARBONATATION OR SATURATION PLANTS

Dyer Co., New England bldg, Cleveland, O.
 Maschinenfabrik, Grevenbroich, 76 William, New York
 Pusey & Jones Co., Wilmington, Del.

CENTRIFUGALS & MIXERS (SUGAR)

Allentown Fdry & Machine Works, Allentown, Pa.
 American Tool & Machine Co., 109 Beach, Boston, Mass.
 Blymyer Iron Works Co. ("Triumph" with Hand Power Jack), Cincinnati, O.
 Boland & Gschwind Co., New Orleans, La.
 Caldwell-Wilcox Co., Newburg, N. Y.
 Cornell, J. B. & J. M. Co., 26th & 11th av, N. Y.

Deeley, Robt. & Co., 507 W 32d, New York
 Hepworth, S. S. Co., 92 Williams, New York
KOVEN, L. O. & BRO., 50 Cliff, New York. (See adv. index, end of book)
 Krajewski-Pesant Co., 32 B'way, New York
 Maschinenfabrik, Grevenbroich, 76 William, New York

Morris, Henry G., 333 Walnut, Phila., Pa.
 Mundt, Chas. & Sons, 441 Pearl, New York
 Payne & Joubert, 423 Carondelet, New Orleans, La.

Pusey & Jones Co., Wilmington, Del.
 Squier, Geo. L. Mfg. Co., 420 Niagara, Buffalo, N. Y.
 Wolf, Fred W. Co., 139 Rees, Chicago, Ill.

CHAR FILTERS & KILNS

Allentown Fdry & Machine Works, Allentown, Pa.
 Broomell, Schmidt & Stacey Co. (Inc.), York, Pa.
 Cornell, J. B. & J. M. Co., 26th & 11th av, N. Y.
 Deeley, Robt. & Co., 507 W 32d, New York
 Maschinenfabrik, Grevenbroich, 76 William, N.Y.
 Morris, Henry G., 333 Walnut, Phila., Pa.
 Squier, Geo. L. Mfg. Co., 420 Niagara, Buffalo, N. Y.
 Treadwell, M. H. & Co., 90 West, New York; works, Lebanon, Pa.
 Wolf, Fred W. Co., 139 Rees, Chicago, Ill.
 Wood, R. D. & Co. ("Char Filters"), 400 Chestnut, Philadelphia, Pa.

CLARIFIERS

Allentown Fdry & Machine Works, Allentown, Pa.
 Blymyer Iron Works Co., Spring Grove av & Terrace pl., Cincinnati, O.
 Cornell, J. B. & J. M. Co., 26th & 11th av, N. Y.
 Deeley, Robt. & Co., 507 W 32d, New York
 Flynn Bros., 17th & Park av., Hoboken, N. J.
 Hauptman & Loeb Co. (Ltd.), 222 S Peters, New Orleans, La.
 Kliby Mfg. Co., Cleveland, O.
 Maschinenfabrik, Grevenbroich, 76 William, N.Y.
 Morris, Henry G., 333 Walnut, Phila., Pa.
 Murphy, Jno. H., 643 Magazine, New Orleans, La.
 Payne & Joubert, 423 Carondelet, New Orleans, La.
 Pioneer Iron Works, 151 William, Brooklyn, N.Y.
 Pusey & Jones Co., Wilmington, Del.
 Squier, Geo. L. Mfg. Co., 420 Niagara, Buffalo, N. Y.
 Turi's, Jno. Sons (Inc.), 26 Cortlandt, New York. Works, Newburgh, N. Y.

CONVEYORS (RIBBON SCROLL)

American Tool & Machine Co., 109 Beach, Boston, Mass.

CRUSHERS (SUGAR CANE)

(See Mills, Sugar Cane.)

CRYSTALIZERS

Allentown Fdry & Machine Works, Allentown, Pa.
 Cornell, J. B. & J. M. Co., 26th & 11th av, N. Y.
 Deeley, Robt. & Co., 507 W 32d, New York
 Dyer Co., New England bldg, Cleveland, O.
 Eastwick Engineering Co., 15 Park Row, New York
 Maschinenfabrik, Grevenbroich, 76 William, N.Y.
 Morris, Henry G., 333 Walnut, Phila., Pa.
 Payne & Joubert, 423 Carondelet, New Orleans, La.
 Pioneer Iron Works, 151 William, Brooklyn, N.Y.
 Pusey & Jones Co., Wilmington, Del.
 Treadwell, M. H. & Co., 90 West, New York; works, Lebanon, Pa.
 Turl's, Jno. Sons (Inc.), 26 Cortlandt, New York. Works, Newburgh, N. Y.
 Whitney Iron Works Co., 861 Tchoupitoulas, New Orleans, La.
 Wolf, Fred W. Co., 139 Rees, Chicago, Ill.

CUBE SUGAR APPARATUS

Deeley, Robt. & Co., 507 W 32d, New York
 Hersey Mfg. Co., 314 W 2d, Boston, Mass.
 Maschinenfabrik, Grevenbroich, 76 William, N.Y.

DEFECATORS

Blymyer Iron Works Co. ("Santa Clara"), Spring Grove av & Terrace pl, Cincinnati, O.
 Coldwell-Wilcox Co., Newburgh, N. Y.
 Cornell, J. B. & J. M. Co., 26th & 11th av, N. Y.
 Deeley, Robt. & Co., 507 W 32d, New York
 Flynn Bros., 17th & Park av, Hoboken, N. J.
 Hauptman & Loeb Co. (Ltd.), 222 S Peters, New Orleans, La.
 Kilby Mfg. Co., Cleveland, O.
 Krajewski-Pesant Co., 32 B'way, New York
 Maschinenfabrik, Grevenbroich, 76 William, N.Y.
 Morris, Henry G., 333 Walnut, Phila., Pa.
 Murphy, Jno. H., 643 Magazine, New Orleans, La.
 Payne & Joubert, 423 Carondelet, New Orleans, La.
 Pioneer Iron Works, 151 William, Brooklyn, N.Y.
 Pusey & Jones Co., Wilmington, Del.
 Squier, Geo. L. Mfg. Co., 420 Niagara, Buffalo, N. Y.
 Turl's, Jno. Sons (Inc.), 26 Cortlandt, New York. Works, Newburgh, N. Y.

DRIERS (CANE, CONTINUOUS)

Davenport Foundry & Machine Co., Davenport, Ia.

EVAPORATORS (MULTIPLE EFFECTS).

Blymyer Iron Works Co. ("Cook"), Spring Grove av & Terrace pl, Cincinnati, O.
 Casey & Hedges Mfg. Co., Chattanooga, Tenn.
 Champion Evaporator Co. (Evaporators), Hudson, O.
 Cornell, J. B. & J. M. Co., 26th & 11th av, N. Y.
 Deeley, Robt. & Co., 507 W 32d, N. Y.
 Dyer Co., New England bldg, Cleveland, O.
 Dyer, E. H. & Co., New England bldg., Cleveland, O.
 Hauptman & Loeb Co. (Ltd.), 222 S Peters, New Orleans, La.
 Kilby Mfg. Co., Cleveland, O.
 Krajewski-Pesant Co., 32 B'way, N. Y.
 Maschinenfabrik, Grevenbroich, 76 William, New York
 Morris, Henry G. (Double & Single), 333 Walnut, Phila., Pa.
 Morris P. Hollingsworth, 1501 S Front, Phila., Pa.
 Murphy, John H., 643 Magazine, New Orleans, La.
 Oat, Jos. & Sons (Copper & Iron), 230 Quarry, Phila., Pa.
 Payne & Joubert, 423 Carondelet, New Orleans, La.
 Pioneer Iron Works, 155 William, Brooklyn, N. Y.
 Pusey & Jones Co., Wilmington, Del.
 Squier, Geo. L. Mfg. Co., 420 Niagara, Buffalo, N. Y.
 Sugar Apparatus Mfg. Co., 326 Chestnut, Phila., Pa.
 Turl's, Jno. Sons (Inc.), 26 Cortlandt, New York. Works, Newburgh, N. Y.
 Warren Evaporator Works (Evaporators), Warren, O.
 Wheeler Condenser & Engineering Co. (Single & Multiple Effects), 42 B'way, New York.
 Works, Carteret, N. J.
 Wood, R. D. & Co., 400 Chestnut, Phila., Pa.

FILTERS (BAG)

Allentown Fdry & Machine Works, Allentown, Pa.
 American Felt Co., 110 E 13th, N. Y.
 Blymyer Iron Works Co., Spring Grove av & Terrace pl, Cincinnati, O.
BONNOT COMPANY, Canton, O. (See adv. index, end of book)
 Cornell, J. B. & J. M. Co., 26th & 11th av, N. Y.
 Deeley, Robt. & Co., 507 W 32d, N. Y.
 Gulf Bag Co., 330 Notre Dame, New Orleans, La.
 Hauptman & Loeb Co. (Ltd.), 222 S Peters, New Orleans, La.
 Maschinenfabrik, Grevenbroich, 76 William, New York
 Morris, Henry G., 333 Walnut, Phila., Pa.
 Payne & Joubert, 423 Carondelet, New Orleans, La.
 Squier, Geo. L. Mfg. Co., 420 Niagara, Buffalo, N. Y.
 Wolf, Fred W. Co., 139 Rees, Chicago, Ill.
 Wood, R. D. & Co., 400 Chestnut, Phila., Pa.

FILTERS (MECHANICAL)

Allentown Fdry & Machine Works, Allentown, Pa.
BETHLEHEM FOUNDRY & MACHINE Co., Front st., So Bethlehem, Pa. & 149 B'way, New York. (See adv. index, end of book)
 Cornell, J. B. & J. M. Co., 26th & 11th av, N. Y.
 Deeley, Robt. & Co., 507 W 32d, N. Y.
 Dyer Co., New England bldg, Cleveland, O.
 Deutsch, Wm. M., 141 B'way, N. Y.
 Hauptman & Loeb Co. (Ltd.), 222 S Peters, New Orleans, La.
 Krajewski-Pesant Co., 32 B'way, N. Y.
LOOMIS-MANNING FILTER CO., 828 Land Title bldg, Phila., Pa. (See adv. index & branch offices, end of book)
 Maschinenfabrik, Grevenbroich, 76 William, New York
 Morris, Henry G., 333 Walnut, Phila., Pa.
NEW YORK CONTINENTAL JEWELL Filtration Co., 15 Broad, N. Y., & 167 Dearborn, Chicago, Ill. (See adv. index, end of book)
 Payne & Joubert, 423 Carondelet, New Orleans, La.
 Perrin, Wm. R. & Co., 46th & Loomis, Chicago, Ill.
 Pioneer Iron Works, 151 William, Brooklyn, N. Y.
PITTSBURG FILTER MFG. CO., Farmers' Bk. bldg, Pittsburg, Pa. (See adv. index, end of book)
 Roberts Mfg. Co., 3011 Chestnut, Phila., Pa.
SCAIFE, WM. B. & SONS CO., 221 1st av, Pittsburg, Pa. (See adv. index, end of book)
 Striver, T. & Co., 333 E 56th, New York
 Wolf, Fred W. Co., 139 Rees, Chicago, Ill.
 Wood, R. D. & Co., 400 Chestnut, Phila., Pa.

FURNACES (BAGASSE)

Allentown Fdry & Machine Works, Allentown, Pa.
 Babcock & Wilcox Co., New Orleans, La.
 Burt, C. S. Co. (Ltd.), 726 Gravier, New Orleans, La.
 Chattanooga Plow Co., Chattanooga, Tenn.
 Coldwell-Wilcox Co., Newburgh, N. Y.
 Cornell, J. B. & J. M. Co., 26th & 11th av, N. Y.
 Deeley, Robt. & Co., 507 W 32d, N. Y.
 Guild & Garrison, Kent av & S 10th, Brooklyn, N. Y.
 Hauptman & Loeb Co. (Ltd.), 222 S Peters, New Orleans, La.
 Morris, Henry G., 333 Walnut, Phila., Pa.
 Payne & Joubert, 423 Carondelet, New Orleans, La.
 Pioneer Iron Works, 151 William, Brooklyn, N. Y.
 Squier, Geo. L. Mfg. Co., 420 Niagara, Buffalo, N. Y.
 Swoop, Julian M., 1215 Josephine, New Orleans, La.

GRANULATORS (SUGAR)

Guild & Garrison, Kent av & S 10th, Brooklyn, N. Y.
 Hauptman & Loeb Co. (Ltd.), 222 S Peters, New Orleans, La.
 Hersey Mfg. Co., 314 W 2d, Boston, Mass.

HEATERS (JUICE)

Allentown Fdry & Machine Works, Allentown, Pa.
 Coldwell-Wilcox Co., Newburgh, N. Y.
 Cornell, J. B. & J. M. Co., 26th & 11th av, N. Y.
 Deeley, Robt. & Co., 507 W 32d, N. Y.

Hauptman & Loeb Co. (Ltd.), 222 S Peters, New Orleans, La.
 Maschinenfabrik, Grevenbroich, 76 William, New York
 Morris, Henry G., 333 Walnut, Phila., Pa.
 Murphy, John H., 643 Magazine, New Orleans, La.
 Payne & Joubert, 423 Carondelet, New Orleans, La.
 Pioneer Iron Works, 151 William, Brooklyn, N. Y.
 Squier, Geo. L. Mfg. Co., 420 Niagara, Buffalo, N. Y.

KILNS (LIME, SUGAR REFINING)

Dyer Co., New England bldg, Cleveland, O.
 Hauptman & Loeb Co. (Ltd.), 222 S Peters, New Orleans, La.
 Maschinenfabrik, Grevenbroich, 76 William, New York
 Wolf, Fred W. Co., 139 Rees, Chicago, Ill.

MILLS (SUGAR CANE)

Allentown Fdry & Machine Works, Allentown, Pa.
 Bell, C. S. Co. (Crushers, Mills), Hillsboro, O.
 Blymyer Iron Works Co., Spring Grove av & Terrace pl, Cincinnati, O.
 Chattanooga Plow Co., Chattanooga, Tenn.
 Coldwell-Wilcox Co., Newburgh, N. Y.
 Cornell, J. B. & J. M. Co., 26th & 11th av, N. Y.
 Deeley, Robert & Co., 507 W 32d, N. Y.
 Farrel Foundry & Machine Co., Ansonia, Conn.
 Golden's Foundry & Machine Co., Columbus, Ga.
 Huntsville Foundry & Machine Works, Huntsville, Ala.
 Keboe, Wm. & Sons, Savannah, Ga.
 Kilby Mfg. Co., Cleveland, O.
 Krajewski-Pesant Co., 32 B'way, N. Y.
 Lombard Iron Works & Supply Co., Augusta, Ga.
 Morgan Iron Works, 814 E 9th, N. Y.
 Morris, Henry G., 333 Walnut, Phila., Pa.
 North Alabama Engineering Co., New Decatur, Ala.
 Payne & Joubert, 423 Carondelet, New Orleans, La.
 Pioneer Iron Works, 151 William, Brooklyn, N. Y.
 Pusey & Jones Co., Wilmington, Del.
 Reading Iron Co., Reading, Pa.
 Risdon Iron Works, Stuart & Folsom sts., San Francisco, Cal.
 Rockford Well Drill Co., Rockford, Ill.
 Rourke, John & Sons, Savannah, Ga.
 Salem Iron Works (Steam, Water & Animal Power), Winston-Salem, N. C.
 Schofield, J. S. Sons Co., Macon, Ga.
 Southern Plow Co., Columbus, Ga.
 Squier, Geo. L. Mfg. Co., 420 Niagara, Buffalo, N. Y.
 Standard Engineering Co., Ellwood City, Pa.
 Swoop, Julian M., 1215 Josephine, New Orleans, La.
 White, S. R. & Bro., Norfolk, Va.
 Whitney Iron Works Co., 861 Tchoupitoulas, New Orleans, La.

PANS (VACUUM)

(Pans, Vacuum, is Classified in Letter P.)

PORTABLE RAILWAYS.

(See Railways, Industrial & Portable.)

ROLLERS & PINIONS

Chester Steel Casting Co., Chester, Pa., & 407 Sansom, Phila., Pa.

SUGAR CANE UNLOADING APPARATUS & CONVEYOR.
(See Conveyors, Belt.)**SULPHUR MACHINES**

Krajewski-Pesant Co., 32 B'way, N. Y.

TRITURATORS

Coldwell-Wilcox Co., Newburgh, N. Y.
 (END OF SUGAR MACHINERY)

When writing to firms whose names appear in this book please mention

HENDRICKS' COMMERCIAL REGISTER.

Sugar Refineries

Alameda Sugar Co. (Beet Sugar), San Francisco, Cal. Factory, Alvarado, Cal.
 Alma Sugar Co. (Beet Sugar), Alma, Mich.
 Amalgamated Sugar Co. (Beet), Ogden, Utah.
 American Beet Sugar Co., 32 Nassau, N. Y.
 American Sugar Refining Co., 117 Wall, N. Y.
 American Sugar Refining Co. (Standard Plant), Granite st, S B, Boston, Mass.
 Arbuckle Bros., 71 Water, New York
 California & Hawaiian Sugar Refining Co. (Beet Sugar), San Francisco, Cal. Factory at Crockett, Cal.
 Chaparra Sugar Co. (Beet Sugar), 109 Wall, N. Y.
 Chippewa Sugar Co. (Beet), Chippewa Falls, Clinton Sugar Refining Co., Clinton, Iowa
 Cogswell, Frank R., New Orleans, La. Wis.
 Colonial Sugars Co., New Orleans, La.
 Continental Sugar Co. (Beet), Cleveland, Ohio. Factories at Fremont, Ohio, & Blissfield, Mich.
 Corn Products Mfg. Co., Heyworth bldg, Chicago, Ill.; refinery, Davenport, Iowa
 Corn Products Refining Co., Refineries, Waukegan, Ill., Granite City, Ill.
 Cuban-American Sugar Co., 109 Wall, N. Y.
 Cunningham, Edwd. H. & Co., Sugarland, Tex.
 Eastern Refining Co., 13 Wall, N. Y.
 Federal Sugar Refining Co., 138 Front, N. Y. City. Refineries, Yonkers, N. Y.
 Francisco Sugar Co., 143 S Front, Phila., Pa., & Guayabai, Cuba
 Franklin Sugar Refining Co., Stock Exchange pl, Phila., Pa., & 19 E 2d, Cincinnati, O.
 German-American Sugar Co. (Beet Sugar), West Bay City, Mich.
 Glucose Sugar Refining Co., Rookery bldg, Chicago, Ill., Refinery, Davenport, Ia.
 Great Western Sugar Co. (Beet), Loveland, Holland Sugar Co., Holland, Mich. Colo.
 Howell, B. H. Son & Co. (Beet Sugar), 109 Wall, New York
 Kalamazoo Beet Sugar Co., Kalamazoo, Mich.
 Idaho Sugar Co. (Beet), Salt Lake City, Utah.
 Knight Sugar Co. (Beet), Raymond, Alberta, Canada.
 Lafayette Sugar Refining Co., Lafayette, La.
 Lakeside Sugar Refining Co., Eagle Lake, Lansing Sugar Co., Lansing, Mich. Tex.
 Los Alamitos Sugar Co. (Beet), Los Angeles, Cal.; factory, Los Alamitos, Cal.
 Lyons Beet Sugar Refining Co., Lyons, N. Y.
 McCahan, W. J. Sugar Refining Co., 101 S Front, Phila., Pa.
 Marine Sugar Co., Marine City, Mich.
 Menominee River Sugar Co. (Beet), Menominee, Mich.
 Mercedita Sugar Co., 109 Wall, N. Y.
 Michigan Sugar Co., The Union Trust bldg, Detroit, Mich.; General Office, Saginaw, Mich.
 Mollenhauer Sugar Refining Co., Kent av c S 11th, Brooklyn, N. Y.
 Mount Clemens Sugar Co. (Beet), Mt. Clemens, Mich.
 National Sugar Refining Co., 109 Wall, N. Y. & Yonkers, N. Y.
 National Sugar Mfg Co. (Beet), Sugar City, Colo.
 Ontario Sugar Co. (Beet), Toronto, Ont.; factory at Berlin, Ont., Canada.
 Owosso Sugar Co. (Beet), Owosso, Mich.
 Pope, Chas. (Beet), Riverdale, Chicago, Ill.
 Reserve Sugar Refinery, St. Peters, La.
 Revere Sugar Refinery, 2 Broad, Boston, Mass.
 Rock County Sugar Co. (Beet), Janesville, Wis.

St. Louis Sugar Co. (Beet), St. Louis, Mich.
 Saginaw Valley Sugar Co., Saginaw, Mich.
 Sanilac Sugar Refining Co. (Beet), Crosswell, Mich.
 Sebewaing Sugar Refining Co., Sebewaing, Segura Sugar Co., Segura, La. Mich.
 Snake River Valley Sugar Co. (Beet), Blackfoot, Colo.
 Spreckels Sugar Co. (Beet), 227 Market, San Francisco, Cal. Factory: Spreckels, Cal.
 Standard Beet Sugar Co., Leavitt, Neb.
 Sterling Sugar Co. (Beet), Sterling, Colo.
 United States Sugar Co. (Beet Sugar), Madison, Wis.
 Union Sugar Co. (Beet), 132 Market, San Francisco, Cal. Factory, Betteravia, Cal.
 Utah Sugar Co. (Beet), Salt Lake City, Utah. Factories at Garland, Leki, Provo, Spanish Fork & Springville, Utah
 Wallaceburg Sugar Co. (Beet), Wallaceburg, Ont., Canada
 Washington State Sugar Co (Beet), Spokane, Wash. Factory at Waverly
 Waterhouse Rice & Sugar Co., Glen Flora, Tex.
 West Bay City Sugar Co., West Bay City, Mich.
 Western Sugar & Land Co. (Beet), Grand Junction, Colo.
 Western Sugar Refining Co., 327 Market, San Francisco, Cal.
 Wisconsin Sugar Co., Menominee Falls, Wis.

Sulphate Digester Linings

Reconstructed Granite Co., 14 Dey, New York. Works, Norristown, Pa.

Sulphate of Ammonia

American Coal Products Co., 17 Battery pl, New York
 Ammonia Co. of Phila., 2815 Gray's Ferry av, Phila., Pa.
 Cochrane Chemical Co., 55 Kilby, Boston, Mass.
 General Chemical Co., 25 Broad, N. Y.
 Grasselli Chemical Co., Cleveland, O.
 Listers' Agr'l Chemical Works, ft W 39th, New York
 New England Gas & Coke Co., Old South bldg, Boston, Mass.
 Tennant & Sons Co. (Importers), 76 William, New York

*Sulphate of Iron

AMERICAN STEEL & WIRE CO., The Rookery, Chicago, Ill. (See adv. index & branch offices, end of book)

Sulphate of Lime

Doggett, Stanley, 101 Beekman, New York
 Gabriel & Schall, 205 Pearl, New York
 Higginson Mfg. Co., Newburg, N. Y.
 Western Chemical Mfg. Co. (Bi-Sulphate of Lime), Denver, Colo.

Sulphate of Soda

Cochrane Chemical Co., 50 Kilby, Boston, Mass.
 Contact Process Co., Buffalo, N. Y.
 General Chemical Co., 25 Broad, New York.
 Grasselli Chemical Co., Cleveland, O.
 Grasselli Chemical Co., 60 Wall, New York
 Jarecki Chemical Co., Sandusky, Ohio
 Merrimac Chemical Co., 75 Broad, Boston, Mass.

Powers, Weightman & Rosengarten Co., 9th & Parish, Phila., Pa.
 St. Louis Chemical Co., St. Louis, Mo.
 Thomsen Chemical Co., Race & Winder, Baltimore, Md.
 Western Chemical Mfg. Co., Denver, Colo.

Sulphate of Sodium

Solvay Process Co., Syracuse, N. Y., & Detroit, Mich.

Sulphur (Refined)

Doggett, Stanley, 101 Beekman, New York
 General Chemical Co., 25 Broad, N. Y.

Summer Houses or Arbors

AMOS, CHARLES & CO., 94 W Larned, Detroit, Mich. (See adv. index, end of book)
 Barbee Iron & Wire Works, 44 Dearborn, Chicago, Ill., & Lafayette, Ind.
 BUFFALO WIRE WORKS CO., 316 Terrace, Buffalo, N. Y. (See adv. index, end of book)
 CINCINNATI MFG. CO., 1243 W 6th, Cincinnati, O. (See adv. index, end of book)
 Howard & Morse, 45 Fulton, New York
 SMITH, F. P. WIRE & IRON CO., 100 Lake, Chicago, Ill. (See adv. index, end of book)
 Westervelt, A. B. & W. T., 102 Chambers, New York

Sun Dials

Gardam, Wm. & Sons, 47 Rose, New York
 Jordan, Adolph M., 37 E 5th, Cincinnati, O.

*Sun Dials (Metal)

SALO ART METAL CO., 19 Collier, Binghamton, N. Y. (See adv. index, end of book)

Sun & Heliographic Printing

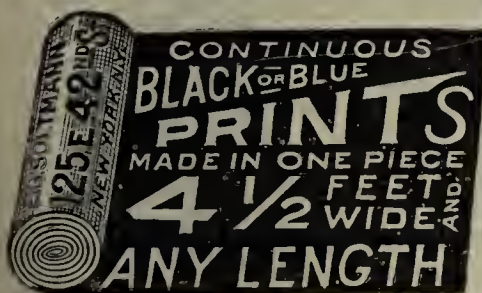
Keuffel & Esser Co., 127 Fulton, New York
 N. Y. Blue Print Co., 60 Reade, New York
 (See adv. index, end of book)
SOLTMANN, E. G.
 (Also everything for the Architect, Engineer & Draughting Room), 125 E 42d, New York. (See adv. below)

Superheaters (Steam)

Babcock & Wilcox Co., 85 Liberty, New York
 Hussey, McCann & Co., 87 Warren, N. Y.
 Metesser, Lewis ("Metesser"), Hibernia Bank Bldg, New Orleans, La.
 National Superheater Co. (Potter), 43 Cedar, New York
 Parker Boiler Co., Penna. bldg, Phila., Pa.
 Potter Separator Co., 39 Cortlandt, N. Y.
 Power Specialty Co. ("Foster"), 111 Bway, New York
 Providence Engineering Works ("Schmidt"), Providence, R. I.
 Stirling Consolidated Boiler Co., 111 B'way, New York. Works, Barberton, O.
WESTINGHOUSE MACHINE CO., Pittsburg, Pa.

Supports (Cross Arm)

Steel Gain Mfg. Co. ("Bull Dog"), 12 South Clinton, Chicago, Ill.



E.G. SOLTSMANN ESTABLISHED 1880 **DRAWING MATERIALS**
 125 E. 42ND ST. NEXT TO THE NEW YORK N.Y.
 T. GRAND CENTRAL STATION

BLUE PRINT and BROWN PRINT PAPERS.

PRICES FOR LARGE PRINTS UP TO 4 1/2 X 12 FEET IN ONE PIECE.

BLACK PRINTS ON PAPER 3c. SQUARE FOOT BLACK OR BLUE PRINTS ON CLOTH 5c. SQUARE FOOT

"SEPPIAN" Brown Print NEGATIVES made from TRACINGS.

"SEPPIAN" POSITIVES.

TRACINGS RECEIVED BY EXPRESS IN THE MORNING, CAN BE EXPRESSED ON SAME DAY WITH LARGE QUANTITIES OF PRINTS, BOUND IN SETS, READY FOR THE CONTRACTORS.

Surfacing Machines (Floor)

(See Machinery.)

*Surveyors' Field & Office Supplies

SOLTMANN, E. G.

(Also everything for the Architect, Engineer & Draughting Room), 125 E 42d, New York. (See adv. on preceding page)

Swage Block Stands

Wiley & Russell Mfg. Co. ("Green River"), Greenfield, Mass.

Swage Blocks

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)

Huntsville Foundry & Machine Works, Huntsville, Ala.

Illinois Iron & Bolt Co., Carpentersville, Ill.

Kinsley Iron & Machine Co., Canton, Mass.

Swett, A. L., Iron Works, Medina, N. Y.

Wiley & Russell Mfg. Co. ("Green River"), Greenfield, Mass.

Swages (Tie Plate)

Pittsburg Tool & Drop Forge Co. ("Cheswick"), Works, Cheswick, Pa.

Swages (Top, Bottom, Etc.)

Beall Bros. (Inc.), Alton, Ill.

Evansville Tool Works, Evansville, Ind.

Vaughn & Bushnell Mfg. Co. ("V. & B."), 875 W Carroll av, Chicago, Ill.

Sweepers (Carpet)

Bissell Carpet Sweeping Co. ("Bissell's"), Grand Rapids, Mich.

Goshen Sweeper Co., Grand Rapids, Mich.

Nat'l Sweeper Co. ("National Queen"), Newark, N. J.

Streator Metal Stamping Co., Streator, Ill.

Vincent, Frank J., Little Falls, N. Y.

Sweepers (Lawn)

(See Lawn Sweepers)

Sweepers (Street Railway)

(See Street Railway Sweeping Machines.)

*Sweeping, Cleaning & Renovating Plants (Portable & Stationary)

GENERAL COMPRESSED AIR & VACUUM Machinery Co. (Vacuum System), 4469 Olive, St. Louis, Mo. (See adv. index, end of book)

ORGAN POWER CO., Hartford, Conn. (See adv. index, end of book)

VACUUM CLEANER CO. (Vacuum Systems), 427 5th av, New York. (See adv. index, end of book)

Swinging Hose Rack

(See Hose Reels & Racks.)

Swings (Barrel)

Leavitt Machine Co., Orange, Mass.

Swings (Circle)

Boyce, Edward C. (Inc.), 302 B'way, New York

Federal Construction Co., 108 Dearborn, Chicago, Ill.

Traver Circle Swing Co., 66 B'way, New York

Swings (Lawn)

American Machine Co., Wilmington, Del.

American Mfg. & Novelty Co., Erie, Pa.

Aspinwall Mfg. Co., Jackson, Mich.

Babcock Mfg. Co. ("Otsego"), Leonardsville, New York

Barley, Thos. K. ("Bible"), Sedalia, Mo.

Batavia Wind Mill Co. (Steel), Batavia, Ill.

Batcheller, H. F., Rock Falls, Ill.
Bausman, D. H. ("Bausman" Steel), Bausman, Pa.

Border City Mfg. Co., Border City, N. Y.

Bristol & Gale Mfg. Co., 110 W Wash'n, Chicago, Ill.

Brown Bros. Mfg. Co. ("Queen of the Lawn"), Nappanee, Ind.

Buch's, A., Sons Co. ("Eagle," Steel Reclining & Adjustable Seat, etc.), Elizabeth-

Butler Co., Butler, Ind. town, Pa.

Challenge Co. ("Red Star"), Batavia, Ill.

Clampe, Frank N. ("Peoples Delight"), Cambridge City, Ind.

Covington Mfg. Co., Covington, O.

Dain Mfg. Co. ("Dain's Alaska"), Ottumwa, Iowa

Dowden Mfg. Co., Prairie City, Ia.

Dublin Agricultural Works, Dublin, Ind.

Eagle Mfg. Co., Elizabethtown, Pa.

Earl, F. H. Mfg. Co., Plano, Ill.

Eureka Mower Co. ("Eureka"), Utica, N. Y.

Fairfield Lawn Swing Co. ("Fairfield"), Brunswick, Me.

Farm Tool Mfg. Co. ("American"), Carrollton, Mo.

Fleming & Sons Mfg. Co. ("Fleming"), Huntsville, Mo.

Forbes Mfg. Co. ("Mogul"), Hopkinsville, Ky.

Fry Bros., Richmond, Ind.

Glascok Bros. Mfg. Co., Muncie, Ind.

Goshen Mfg. Co., Goshen, Ind.

Greene Mfg. Co., Springfield, O.

Haggard & Marcussen Co. ("Comfort Swing Chair"), 422 S Canal, Chicago, Ill.

Haish Mfg. Co., De Kalb, Ill.

Hay Tool Mfg. Co. ("Iowa"), Council Bluffs, Iowa

Hayes Pump & Planter Co., Galva, Ill.

Hercules Specialty Co., Erie, Pa.

Hopkins, W. T., Paxton, Ill.

Horizontal Swing Co. ("Carrollton"), Carrollton, Mo.

Hutchins Roller Swing Co. ("Roller"), Alton, Ill.

Iona Wagon Co. ("Bible"), Iona, Mich. Ill.

I. X. L. & Goshen Pump Co., Goshen, Ind.

Joes, C. H., Sterling, Ill.

Kalamazoo Sled Co., Kalamazoo, Mich.

Keller Mfg. Co. ("Keller"), Sauk Center, Minn.

Kelly Foundry & Machine Co. ("Baby"), Goshen, Ind.

Kelly, O. S. Mfg. Co., Iowa City, Ia.

Keystone Farm Machine Co. ("Slumberine"), York, Pa.

McCall Mfg. Co., Moberly, Mo.

McCormack Mfg. Co., Des Moines, Ia.

Meyers, F. E. & Bro. ("Ashland Roller"), Ashland, O.

Michael, Chas. H. Mfg. Co., Laporte, Ind.

Miller Bros., Rochester, Mich.

Neff Mfg. Co., Cowan, Ind.

Moulton, C. W. H. & Co. ("New England"), Somerville, Mass.

Ohio Implement Co. (Folding), Bowling Green, Ohio

Ohio Rake Co. ("Arlic"), Dayton, O.

Purlington Mfg. Co., Des Moines, Ia.

Reed & Rogers Mfg. Co., Vernon, Ind.

Scott, Jno. F., Goshen, Ind.

Sears Mfg. Co., Plano, Ill.

Sechler, D. M. Carriage Co., Moline, Ill.

Smith Fence & Iron Co. (Steel), Waynesboro, Pa.

Smith Mfg. Co. (Steel), Waynesboro, Pa.

Smith, T. & H. & Co., Pekin, Ill.

Snow Mfg. Co. (Steel), Batavia, Ill.

Southern Plow Co. ("Perfection Hercules"), Columbus, Ga.

Specialty Mfg. Co. ("Columbia"), Titusville, Pa.

Superior Hay Stacker Mfg. Co. (Superior Horizontal), Linneus, Mo.

Union Mfg. Co., Toledo, O.

Wayne Works ("Richmond Champion"), Richmond, Ind.

Weston Paper & Mfg. Co. ("Premier" Swing & Hammock Combined), Dayton, O.

*Switchboard Details

WESTINGHOUSE ELECTRIC & MFG. Co., Pittsburg, Pa. (See adv. index & branch offices, end of book)

Switchboards (Light & Power)

Adams, Frank Electric Co. ("F.-A."), 904 Pine, St. Louis, Mo.

ALLIS - CHALMERS CO., MILWAUKEE, Wis. (See adv. index & branch offices, end of book)

Allis-Chalmers Co., Milwaukee, Wis.

American Electric Switch Co., Springfield, O.

American Slate Co., Bangor, Pa.

Anderson, Albert & J. M. Mfg. Co., 289 A, South Boston, Boston, Mass.

Andrae, Julius & Sons Co., 225 W Water, Milwaukee, Wis.

Bernard, E. G. Co., Troy, N. Y.
Boston Electric Co., 29 Harrison av, Boston, Mass.

Bossert Electric Const. Co., Utica, N. Y.

Bryant Electric Co. (Tablet), Bridgeport, Conn.

California Electrical Works (Inc.), 547 Mission, San Francisco, Cal.

Columbian Marble Quarrying Co. (Blue, Mottled & White Marble), Rutland, Vt.

Coulman & Westcott (Slate), Fair Haven, Vt.

Crescent Electrical Mfg. Co. ("Crescent" Panel Boards & Switchboards), Rochester, N. Y.

Criterion Slate Co. (Slate), Hydeville, Vt.

Crouse-Hinds Co., Syracuse, N. Y.

Electric Supply & Mfg. Co., 62 Public sq., Cleveland, O.

C. & C. Electric Co., 149 B'way, N. Y.

Durick, Keenan & Co., Fair Haven, Vt.

Electro Dynamic Co., 5 Nassau, New York

Fair Haven Marble & Marbleized Slate Co. (Slate), Fair Haven, Vt.

Fisher Electrical Works, 183 Larned, W. Detroit, Mich.

Flint-Lomax Electric & Mfg. Co., 1400 Delgany, Denver, Colo.

Forest City Electric Co., 111 Windsor av, Cleveland, O.

Fort Wayne Electric Works (Inc.), Fort Wayne, Ind.

Garrett, Miller & Co., Wilmington, Del.

GENERAL ELECTRIC CO., Schenectady, N. Y., & 44 Broad, New York. (See adv. index & branch offices, end of book)

Helios Mfg. Co., Bridesburg, Phila., Pa.

Hill, W. S. Electric Co., New Bedford, Mass.

Holzer-Cabot Electric Co., Brookline, Mass.

Jones, J. & Son (Electric Light), 62 Vesey, New York

Keystone Electrical Instrument Co., 9th & Montgomery av, Phila., Pa.

Ideal Electric & Mfg. Co. ("Ideal Standard"), Mansfield, O.

Krantz, H. Mfg. Co., 160 7th, Brooklyn, N. Y.

Lang, J. Electric Co., 16 E Indiana, Chicago, Ill.

LaRoche, Fred. A. Co., 656 Hudson, N. Y.

Linton & Southwick (Tablet & Distributing), Worcester, Mass.

McCarthy Bros. & Ford, 41 Eagle, Buffalo, N. Y.

McCay Engineering Co., 9 E. Lexington, Baltimore, Md.

MEADOW BROOK SLATE CO. (Slate), Slatington, Pa. (See adv. index, end of book)

Monson-Maine Slate Co. (Slate), 113 Devonshire, Boston, Mass.

Ontalaunee Slate Mfg. Co. (Slate), Lynnport, Pa.

Penna. Natural Slate Blackboard Co. (Slate), Slatington, Pa.

Penn Structural Slate Co. (Slate), Easton, Pa.

Penrbyn Slate Co. (Slate), 493 E 138th, N. Y.

Perkins, E. A. Electric Co., Torrington, Conn.

Peru Electric Mfg. Co., Peru, Ind., & 118 W Jackson boul, Chicago, Ill.

PHOENIX ELECTRIC COMPANY, Mansfield, O. (See adv. index, end of book)

Pittsburg Electrical & Machine Works, 3 Barker pl, Pittsburg, Pa.

Schnake, Henry C., 176 E Indiana, Chicago, Ill.

SCRANTON SLATE CO. (Slate), Slatington, Pa. (See adv. index, end of book)

Signalphone Alarm Co. (Power & Storage Battery), Montgomery bldg, Milwaukee, Wis.

Stanley Electric Mfg. Co., Pittsfield, Mass.

Supply Mfg. Co., 32d & Smallman, Pittsburg, Pa.

Switchboard Equipment Co., Bethlehem, Pa.

Tibbals, E. C. & Co., 1201 Atlantic av, Brooklyn, N. Y.

Tower-Binford Electric & Mfg. Co., 715 E Main, Richmond, Va.

Vermont Unfading Green Slate Co., Fair Haven, Vt.

Wagner Electric Mfg. Co. (also for Street Rys. & Isolated Plants), 2017 Locust, St. Louis, Mo.

Walker Electric Co. (Slate & Marble), 2338 Noble, Phila., Pa.

Washington Slate Co. (Slate), Slatington, Pa.

Waterbury Co. (Inc.), 69 South, New York

Western Electric Co., 259 S Clinton, Chicago, Ill.

& 57 Betbune, New York

Western Electric Co. ("Hill"), 11th & York, Phila., Pa.

WESTINGHOUSE ELECTRIC & MFG. Co., Pittsburg, Pa. (See adv. index & branch offices, end of book)

Weston, Wm. H. & Co., 1303 Buttonwood, Phila., Pa.

WORCESTER ELECTRIC MFG. CO., Worcester, Mass. (See adv. index, end of book)

Switchboards (Telephone)

(See also Telephones & Apparatus.)

Acme Electric & Telephone Co., 71 W Jackson
boul., Chicago, Ill.
American Electric Telephone Co., 64th &
State, Chicago, Ill.
American Machine Telephone Co., Piqua, O.
Andrae, Julius & Sons Co., 225 W Water, Mil-
waukee, Wis.
Automatic Electric Co., Morgan & Van Buren,
Chicago, Ill.
Bunnell, J. H. & Co., 20 Park pl, New York
Central Telephone & Electric Co., 2135 Lucas
av, St. Louis, Mo.
Century Telephone Const. Co., Buffalo, N. Y.
Chicago Telephone Supply Co., Elkhart, Ind.
Clark Automatic Telephone Switchboard Co.,
Providence, R. I.
Connecticut Telephone & Electric Co., Meri-
den, Conn.
Couch, S. H. Co., 156 Pearl, Boston, Mass.
Couch & Seeley Co., 10 Thacher, Boston,
Mass.
De Veau Telephone Mfg. Co., 27 Rose, New York
Dunham Telephone Mfg. Co., Dunham, N. C.
Eastern Telephone Mfg. Co., West Chester, Pa.
Electrical Appliance Co., 132 Opera pl, Cin-
cinnati, O.
Electrical Engineering Co., 21 N. 6th, Min-
neapolis, Minn.
Electric Goods Mfg. Co., 115 Purchase, Bos-
ton, Mass.
Ericsson Telephone Co., 296 B'way, New York
Farr Telephone & Const. Supply Co., 118 W
Jackson boul, Chicago
Fisk & Newhall, 172 S Clinton, Chicago, Ill.
Gare Electric Co., Akron, O.
Globe Automatic Telephone Co., 153 W Jackson
boul, Chicago, Ill.
Herzog Teleseme Co., 51 W 24th, N. Y.
Hipwell Mfg. Co., 831 North av, Allegheny,
Pa.
International Telephone Mfg. Co., Harrison &
Clinton, Chicago
Kellogg Switchboard & Supply Co., Congress &
Green, Chicago
Keystone Electric Telephone Co., 822 Fifth
av, Pittsburg, Pa.
Kokomo Telephone & Electric Mfg. Co., Koko-
mo, Ind.
Kusel, D. A., 1310 Pine, St. Louis, Mo.
Minnesota Electric Co., 309 S 2d av, Minne-
apolis, Minn.
North Electric Co., 157 St. Clair, Cleveland, O.
Russell-Thomlinson Elec. Co., Danbury, Conn.
Schmidt-Lambert Telephone Mfg. Co., Wee-
hawken, N. J.
Signal Phone Co., Milwaukee, Wis.
Sterling Elec. Co., Lafayette, Ind.
Stromberg-Carlson Telephone Mfg. Co., Ro-
chester, N. Y., & 82 W Jackson boul, Chi-
cago
Sumter Telephone Mfg. Co., Sumter, S. C.
Utica Fire-Alarm Telegraph Co., Utica, N. Y.
Vladuct Mfg. Co., 10 S. Howard, Baltimore.
Victor Telephone Works, State & 64th, Chi-
cago, Ill.
Vought-Berger Co., La Crosse, Wis.
Wentworth & Blake, 19 High, Boston, Mass.
Wesco Supply Co., St. Louis, Mo.
Western Telephone Mfg. Co., 42 W Jackson
boul., Chicago, Ill.
Wilhelm Telephone Mfg. Co., 45 N Division.
Buffalo, N. Y.
Williams Telephone & Supply Co., Cleveland, O.
Wotten Electric & Mfg. Co., Atlanta, Ga.

***Switch Handles (Wood)**

NARRAGANSETT MACHINE CO., Provi-
dence, R. I. (See adv. index, end of book)
**NOVELTY TURNING CO. (For Elec-
trical Switches),** Norway, Me. (See adv.
index, end of book)

Switch Locks (Railway)

Blanchard Railway Switch Lock Co., 161 W
Springfield, Boston, Mass.

Switch Stands

(See Switches, Switch Stands & Fixtures.)

Switches (Automatic)

Automatic Switch Co. ("Whittingham" Quick
Break Tank Switch, etc.), 131 Liberty, New
York
ELECTRIC CONTROLLER & SUPPLY
Co., Cleveland, O. (See adv. index. &
branch offices, end of book)
PHOENIX ELECTRIC CO., Mansfield,
O. (See adv. index, end of book)
Sechrist, Albert Mfg. Co. (The Sechrist), 1033
16th, Denver, Colo.

***Switches (Automatic Door)**

HART MFG. CO. ("Diamond H"), 103
Allyn, Hartford, Conn. (See adv. below)

Switches (Automatic Railroad)

Buda Foundry & Mfg. Co., Railway Ex-
change bldg, Chicago, Ill.
N. Y. Switch & Crossing Co., Hoboken, N. J.
Penna. Steel Co., Girard bldg, Phila., Pa.
Ramapo Iron Works, Hilburn, N. Y.
Sheffield Car Co., Three Rivers, Mich.
Wharton, Wm., Jr., & Co., 25th & Washing-
ton av, Phila., Pa.

Switches (Automobile)

Acorn Brass Mfg. Co. (Lock), 51 N Peoria,
Chicago, Ill.
American Coil Co. (Electric), West Somerville,
Mass.
Atwater-Kent Mfg. Works ("Keyless," Lock),
112 N 6th, Phila., Pa.
Auto Lock Co. (Lock), 6549 Minerva av, Chi-
cago, Ill.
Auto Lock Plug Co. (Lock), 31 Nassau, New
York
B. & J. Mfg. Co. (Lock), 86 E 34th, Chicago,
Ill.
Connecticut Telephone & Electric Co. (Inc.)
(Electric), Meriden, Conn.
EDWARDS & CO. (Electric), Park
av & 144th, New York. (See adv. index,
end of book)
Eldridge Electric Mfg. Co. (Electric), 227 Main,
Springfield, Mass.
Hart & Hegeman Mfg. Co. (Electric), 32 Union
pl, Hartford, Conn.
Lock-Switch Mfg. Co. (Lock), 20 Broad, New
York
McKibben, G. N. Mfg. Co. (Electric), South
Norwalk, Conn.

Parker, Henry F. (Lock), New Burgh, New
York
Peerless Swith Co. (Electric), 190 Randolph,
Detroit, Mich.
Perfection Supply Co. (Electric), 621 B'way,
New York
PITTSFIELD SPARK COIL CO.
(Electric & Lock), Pittsfield, Mass. (See
adv. index, end of book)
Seidler-Miner Electric Co. (Electric), 207 Jef-
erson av, Detroit, Mich.
Specialty Mfg. Co. ("Thompson," Electric), S.
Norwalk, Conn.
Splitdorf, C. F. (Electric), 17 Vandewater, New
York
Trumbull Electric Mfg. Co. (Electric), Plain-
ville, Conn.
Utility Co. (Electric), 235 Greenwich, New York
Weber, O. F. Mfg. Works (Electric), Albany,
N. Y.
Western Electric Co., 259 S Clinton, Chicago,
Ill., & 57 Bethune, N. Y.

Switches (Canopy)

Columbia Machine Works & Malleable Iron
Co., 269 Chestnut, Brooklyn, N. Y.
WESTINGHOUSE ELECTRIC & MFG.
Co., Pittsburg, Pa. (See adv. index &
branch offices, end of book)

Switches (Coil)

Connecticut Telephone & Electric Co., Meri-
den, Conn.
Pittsfield Spark Coil Co., Pittsfield, Mass.

Switches (Derailing)

Buda Foundry & Mfg. Co., Railway Exchange
bldg, Chicago, Ill.
Cleveland Car Company, West Park, Ohio.
Hayes Track Appliance Co. (For Steam or
Street Railways), Geneva, N. Y.
Johnston, R. R. Frog & Switch Co., Chester,
Pa.
Locomotive Appliance Co. ("Smyth" & "XXth
Century"), Old Colony bldg, Chicago, Ill.
New York Switch & Crossing Co., Hoboken,
N. J.
Wilson Railway Gate Co., Birmingham, Mich.

***Switches (Fused Service)**

D & W FUSE CO., Providence, R. I. (See
Allyn, Hartford, Conn. (See adv. index,
end of book))

Switches (High Voltage)

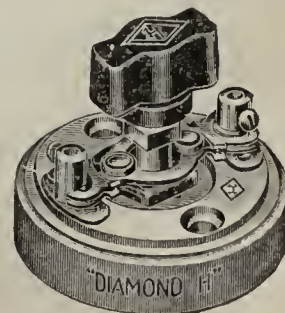
Crouse-Hinds Co., Syracuse, N. Y.
Eureka Tempered Copper Works, North East,
Pa.
Fort Wayne Electric Works (Inc.), Fort Wayne,
Ind.
**GENERAL ELECTRIC CO., Schenec-
tady,** N. Y., & 44 Broad, New York. (See
adv. index & branch offices, end of book)
PHOENIX ELECTRIC CO., Mansfield,
O. (See adv. index, end of book)
Walker Electric Co., 2338 Noble, Phila., Pa.
WESTINGHOUSE ELECTRIC & MFG.
Co., Pittsburg, Pa. (See adv. index &
branch offices, end of book)

"DIAMOND H" SWITCHES

SEND FOR CATALOGUE



MANUFACTURED BY

**HART MFG. CO., HARTFORD, CONN.**

Switches (Industrial Railway)

(See also Railways, Industrial & Portable)

KOPPEL, ARTHUR CO., 86 Broad,
New York. (See adv. index & branch
offices, end of book)**MANUFACTURERS OF
COMPLETE INDUSTRIAL
AND
PORTABLE RAILROADS
A LARGE STOCK
— OF —****Rails, Steel Ties, Track, Port-
able Track, Switches, Frogs,
Turntables, Wheels, Axles,
Crossings, Spare Parts, Loco-
motives, Etc.**

WRITE FOR CATALOG "M"

ARTHUR KOPPEL COMPANY66-68 Broad Street, New York
1639 Monadnock Blk., Chicago
Machesney Bldg., Pittsburgh
Chronicle Bldg., San Francisco
Works at Koppel, Beaver Co., Pa.***Switches (Interlocking)****UNION SWITCH & SIGNAL CO., THE,**
Swissvale, Pa.**Switches (Knife)**Adam, Frank Electric Co. ("Standard"), 914
Pine St. Louis, Mo.
American Electric Switch Co., Springfield, O.
Anderson, Albert & J. M. Mfg. Co., 289 A,
South Boston, Boston, Mass.
Banner Incandescent Electric Co., Youngstown,
O.
Barkewell Elec. Mfg. Co. ("Premo," 25 to
2,000 Amperes, "Star," 3 to 600 Am-
peres), Middletown, O.
Bossert Electric Construction Co., Utica, N. Y.,
& 26 Cortlandt, N. Y.
Boston Electric Co., 29 Harrison av, Boston.
Brady, T. H., New Britain, Conn. Mass.
Bryant Electric Co., Bridgeport, Conn.
Clark-Burris Mfg. Co., 63 S Canal, Chicago, Ill.
Cleveland Switchboard & Elec. Mfg. Co., 54
Michigan, Cleveland, O.
Consolidated Car Heating Co. (For Car Heat
Light, "Quick Brake," 42 Broadway, New
York, and Albany, N. Y.
Crescent Electric & Mfg. Co., 24th & Liberty
av. Pittsburgh, Pa.
Crescent Electrical Mfg. Co., Rochester, N. Y.
Crouse-Hinds Electric Co., Syracuse, N. Y.
Cutter Electrical & Mfg. Co., 19th & Hamilton
Philadelphia, Pa.
Davis M. & Son, Salem, O.
Electric Construction Co. of Va., Richmond, Va.
ELECTRIC CONTROLLER & SUPPLY
Co., Cleveland, O. (See adv. index &
branch offices, end of book)
Electro Dynamic Co., 5 Nassau, New York
Erner Electric Co., 62 Public sq. Cleveland, O.
Eureka Tempered Copper Works ("The
Eclipse," "Favorite," "Economic" &
"Eureka"), Northeast, Pa.
Eranson, Geo. T. Co., 7th & Commerce, Phila-
delphia, Pa.
Fullman Co., 3301 Penna av, Pittsburgh, Pa.
GENERAL ELECTRIC CO., Schenec-
tady, N. Y., & 44 Broad, New York. (See
adv. index & branch offices, end of book)**Heinemann, Geo. M. & Co., 737 Girard av,**
Phila., Pa.**Helios Mfg. Co., Bridesburg, Phila., Pa.**
Hill, W. S. Electric Co., New Bedford, Mass.
Hyer-Sheehan Elec. Motor Co., Newburgh,
N. Y.**Ideal Electric & Mfg. Co. (Star), Mansfield, O.**
Jones, J. & Son, 62 Vesey, New York
Krantz, H. Mfg. Co., 160 7th, Brooklyn, N. Y.
Lang, J. Electric Co., 176 E Indiana, Chicago
Leonard-Bundy Elec. Co., 156 Champlain, Cleve-
land, O.**La Roche, F. A. Co., 656 Hudson, New York**
Linton & Southwick, Worcester, Mass.**Lundin Electric & Machine Co., 176 Federal,**
Boston**McCarthy Bros. & Ford, 41 Eagle, Buffalo,**
N. Y.**Manhattan Electrical Supply Co., 32 Cortlandt,**
New York**Marshall Electric Mfg. Co., 301 Congress, Bos-**
ton, Mass.**Mutual Electric & Machine Co., Wheeling, W.**
Va.**New York Switchboard & Mfg. Co., 516 W 36th,**
New York**Novelty Electric Co., 54 N 4th, Philadelphia,**
Pa.**Paiste, H. T. Co., 3101 Ludlow, Phila., Pa.**
Parke, Jno. Y. & Co., 728 Cherry, Phila., Pa.**Perkins Electric Switch Mfg. Co., Bridgeport,**
Conn.
Peru Electric Mfg. Co., Peru, Ind.**PHOENIX ELECTRIC CO., Mansfield,**
O. (See adv. index, end of book)**Pringle, W. T., 1906 N. 6th, Philadelphia, Pa.**
Proctor-Raymond Mfg. Co., Detroit, Mich.**Schoenman Electric Mfg. Co., Berlin & P R R**
Belt, Pittsburgh, Pa.**Springfield Electrical Mfg. Co., Springfield,**
Mass.**Sterion Copper, Brass & Bronze Co. ("Quick**
Break"), 67 N Ashland av, Chicago, Ill.**Tower-Binford Electric Mfg. Co., 715 E**
Main, Richmond, Va.**Frumbull Electric Mfg. Co. (Also Baby Knife),**
Plainville, Conn.**Wagner Electric Mfg. Co., 2017 Locust St.,**
Louis, Mo.**Walker Electric Co., 2338 Noble, Phila., Pa.**
Wesco Supply Co., St. Louis, Mo.**Western Electric Co., 259 S Clinton, Chicago, &**
57 Bethune, New York**Western Electric Co. ("Hill"), 11th & York,**
Phila., Pa.**WESTINGHOUSE ELECTRIC & MFG.**
Co., Pittsburg, Pa. (See adv. index &
branch offices, end of book)**Weston, W. H. & Co., 1303 Buttonwood, Phila-**
delphia, Pa.**White, H. P. Co., Wayne & Berkeley, Gtn,**
Phila., Pa.**White, J. H. Mfg. Co., 127 N 10th, Brook-**
lyn, N. Y.**Worcester Electric Mfg. Co., Worcester,**
Mass.**Wotton Electric & Mfg. Co., Atlanta, Ga.**
Wurdack, Wm., 19 S 11th, St. Louis, Mo.**York Electric & Machine Co., York, Pa.****Switches (Limit)****PHOENIX ELECTRIC CO., Mansfield,**
O. (See adv. index, end of book)
Schureman, J. L. Co., 70 W Jackson boulv'd,
Chicago, Ill.**Switches (Magnetic)****Automatic Switch Co., 131 Liberty, N. Y.**
ELECTRIC CONTROLLER & SUPPLY
Co., Cleveland, O. (See adv. index &
branch offices, end of book)
Schureman, J. L. Co., 70 W Jackson Boulev'd,
Chicago, Ill.**Switches (Oil Break)****Condit, S. B., Jr., & Co. ("The Elden," Pneu-**
matic), 63 Oliver, Boston, Mass.
Hartman Circuit Breaker Co. (for High Ten-
sion Service), Mansfield, O.
GENERAL ELECTRIC CO., Schenectady, N.
Y., and 44 Broad, New York. (See adv.
index, end of book)
PHOENIX ELECTRIC CO., Mansfield, O.
(See adv. index, end of book)
Schureman, J. L. Co., 70 W Jackson boulv'd,
Chicago, Ill.
Worcester Electric Mfg. Co., Worcester, Mass.**Switches (Reversing Motor)****Automatic Switch Co. ("Whittingham," for**
Elevators, etc.), 131 Liberty, New York
CUTLER-HAMMER MFG. CO., Milwaukee,
Wis. (See adv. index & branch offices,
end of book)**ELECTRIC CONTROLLER & SUPPLY CO.,**
Cleveland, O. (See adv. index & branch
offices, end of book)**HART MFG. CO. ("Diamond H"), 103**
Allyn, Hartford, Conn. (See adv. on pre-
ceding page)**Ideal Electric & Mfg. Co., Mansfield, O.**
PHOENIX ELECTRIC CO., Mansfield, O.
(See adv. index, end of book)**Schureman, J. L. Co., 70 W Jackson boulv'd,**
Chicago, Ill.**Switches (Snap, Ordinary)****Akron Electric Mfg. Co., Akron, O.**
Bryant Electric Co., Bridgeport, Conn.**GENERAL ELECTRIC CO., Schenec-**
tady, N. Y., & 44 Broad, New York.
(See adv. index & branch offices, end of
book)**HART MFG. CO. ("Diamond H"), 103**
Allyn, Hartford, Conn. (See adv. on pre-
ceding page)**Hart & Hegeman Mfg. Co., Hartford, Conn.**
Marshall Electric Mfg. Co., 301 Congress,
Boston**Paiste, H. T. Co., 3101 Ludlow, Phila., Pa.**
Perkins Electric Switch Mfg. Co., Bridgeport,
Conn.**Switches (Snap & Push)****Austin, M. B. & Co. (Push), 56 W Van Buren,**
Chicago**Bryant Electric Co. (Snap), Bridgeport, Conn.**
Cutter Co. (The "C. S."), 19th & Hamilton,
Phila., Pa.**Flint-Lomax Electric Mfg. Co. (Snap & Push),**
1400 Delgany, Denver, Col., & 44 Broad,
N. Y.**GENERAL ELECTRIC CO., Schenec-**
tady, N. Y., & 44 Broad, New York. (See
adv. index & branch offices, end of book)**Hart & Hegeman Mfg. Co. (Push & Snap),**
Hartford, Conn.**Marshall Electric Mfg. Co. (Snap & Push), 301**
Congress, Boston**Paiste, H. T. Co. (Snap), 3101 Ludlow, Phila-**
delphia, Pa.**Perkins Electric Switch Mfg. Co. (Snap), Bridge-**
port, Conn.**Switches (Solenoid)****Automatic Switch Co., 131 Liberty, New York**
CUTLER-HAMMER MFG. CO., Milwaukee,
Wis. (See adv. index & branch offices, end
of book)**Ideal Electric Mfg. Co., Mansfield, Ohio.**
Schureman, J. L. Co., 70 W Jackson boulev'd,
Chicago, Ill.**Switches (Split)****Buda Foundry & Mfg. Co., Railway Exchange**
bldg, Chicago, Ill.**Cleveland Frog & Crossing Co. ("The Lucas"),**
Cleveland, O.**Elliott Frog & Switch Co., East St. Louis, Ill.**
Pettibone, Mulliken & Co. ("Transit," "Gauge"
& "Channel"), 204 Dearborn, Chicago, Ill.**Ramapo Iron Works, Hillburn, N. Y.****Switches, Switch Stands & Fix-
tures**(See also Frogs, Switches & Crossings; also
Crossings; also Signals.)**Alabama Frog & Switch Co., Anniston, Ala**
American Frog & Switch Co., Hamilton, O.**American Railway Signal Co., Cleveland, O.**
American Valve & Meter Co. ("Little Giant"
Switch Stands), Cincinnati, O.**Buda Foundry & Mfg. Co. (The "Ramsey**
Automatic, etc.), Railway Exchange bldg,
Chicago, Ill.**Cleveland Frog & Crossing Co. ("The Lucas"),**
Cleveland, O.**Eclipse Switch & Signal Co., Elmira, N. Y.**
Elliott Frog & Switch Co., East St. Louis, Ill.**FAIRBANKS, MORSE & CO., Frank-**
lin & Monroe, Chicago, Ill. (See adv. in-
dex, & branch offices, end of book)**Giegg Company (Ltd.), (For Industrial Rail-**
ways), Newburg, N. Y.**Gueber Engineering Co., Bethlehem, Pa.**

INDIANAPOLIS SWITCH & FROG CO., Springfield, O. (See adv. index, end of book).
International Railway Supply Co. (Automatic Safety Lock), Monadnock blk, Chicago, Ill.
Johnston, R. R. Frog & Switch Co., Chester, Pa.
KOPPEL, ARTHUR CO., 68 Broad, N. Y. (See adv. index & branch offices, end of book)

Lawrence Switch Co., Duluth, Minn.
Lorain Steel Co., Lorain, O., & Johnstown, Pa.
McGuire-Cummings Mfg. Co., 122 N Sangamon, Chicago, Ill.

Morgan, Edw. L., Little Rock, Ark.
Morris, Herbert, Betz bldg., Phila., Pa.
Morden Frog & Crossing Works, The Rookery, Chicago

New York Switch & Crossing Co., Hoboken, N. J.
Penna. Steel Co., Girard bldg., Phila., Pa.

Pettibone, Mulliken & Co. ("Banner," "Star," "Globe," "Crown" & "Axel" Switch Stands), 204 Dearborn, Chicago

Ramapo Iron Works, Hillburn, N. Y.; Niagara Falls, N. Y., & 170 B'way, New York
Weir Frog Co., Beach & Highland av, Cincinnati, O.

WIENER, ERNST CO., 68 Broad, New York. (See adv. index, end of book)

Switches (Time)

Abbott Mfg. Co. (Automatic), Painesville, O.
Anderson, A. & J. M. Mfg. Co. ("Anderson"), Boston, Mass.

Ballou & Hutchins Electric Co. (Automatic for Gas & Electricity), Providence, R. I.
Campbell Electric Co. ("Campbell"), Lynn, Mass.

Crescent Co. ("Crescent"), Valparaiso, Ind.
Electric Motor & Equipment Co., 13 Beaver, Newark, N. J.

Electric Time Switch Mfg. Co. (Automatic for Gas & Electricity), 24 E 21st, New York
Hartford Time Switch Co. ("Hartford"), 97 Warren, N. Y.

Jones, J. & Son, 62 Vesey, New York, N. Y.
Jordan Bros., 74 Beekman, N. Y.

Peerless Time Switch Co., Elkhart, Ind.
Redding, Jerome & Co., 40 Hanover, Boston, Mass.

Switches (Trolley)

GENERAL ELECTRIC CO., Schenectady, N. Y., & 44 Broad, New York. (See adv. index & branch offices, end of book)

Obenberger, Jno. Co. (For Overhead Trolleys), Milwaukee, Wis.

Yale & Towne Mfg. Co., 9 Murray, New York

Switches & Turn Tables (Mine)

(See Railways, Industrial & Portable.)

Swivels

American Iron & Steel Mfg. Co. (Pipe), Lebanon, Pa.

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)

Brooks, M. S. & Sons (Solid Flat, Nickel or Brass or Steel, etc.), Chester, Conn.

Dayton Malleable Iron Co., Dayton, O.

DOBBIE FOUNDRY & MACHINE CO. (Ball Bearing, etc.), Niagara Falls, N. Y. (See adv. index & branch offices, end of book)

Greystone Mfg. Co. ("Greystone" Patent), Greystone, Conn.

Hoopes & Townsend Co. (Closed or Pipe, Open or Arm, etc.), 1330 Buttonwood, Phila., Pa.

Keystone Drop Forge Works (or Rope Sockets, Open Arm), Chester, Pa.

Michigan Bolt & Nut Works, ft Meldrum av, Detroit, Mich.

Rhode Island Tool Co., Providence, R. I.

Wilcox, Crittenden & Co. (Wrought Brass & Malleable), Middletown, Conn.

Wire Woods Co. (Steel Wire), Worcester, Mass.

Swivels (Punching Bag)

Cassady-Fairbank Mfg. Co., 6106 LaSalle, Chicago, Ill.

Swivels (Snap)

Wilcox, Crittenden & Co. (Wrought, Brass & Malleable), Middletown, Conn.

Wire Goods Co. (Steel Wire), Worcester, Mass.

Syphons (Acid)

Eynon-Evans Mfg. Co. (Lead Lined), 1519 Clearfield, Phila., Pa.
Schutte & Koerting Co., 1251 N 12th, Phila., Pa.

Syphons (Steam Gauge)

LUNKENHEIMER CO., General Office & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

SCHAEFFER & BUDENBERG MFG. Co. (Pressure), Foxboro, Mass. (See adv. index & branch offices, end of book)

STANDARD GAUGE MFG. CO., Syracuse, N. Y. (See adv. index, end of book)

Western Tube Co., Kewanee, Ill.

WILLIAMS, D. T. VALVE CO., 904 B'way, Cincinnati, O. (See adv. index, end of book)

Syrens (Steam)

(See Sirens, Steam.)

Syringes (Hypodermic)

Higgins Dental Mfg. Co. (Obtunding), Bellevue, Ohio

Syringes (Oil)

(See Oil Guns & Syringes)

Tables (Brick Cutting)

BONNOT COMPANY, Canton, O. (See adv. index, end of book)

Chambers Bros. Co., 52d bet. Lancaster av, Philadelphia, Pa.

Madden & Co. (Endless Belt), Rushville, Ind.

*Tables (Card & Folding)

BURROWES, E. T. CO., 70 Free, Portland, Me. (See adv. index & branch offices, end of book)

Tables (Concentrating)

Allis-Chalmers Co., Home Ins. bldg, Chicago, Ill.

Colorado Iron Works Co. ("Bartlett"), 721 17th, Denver, Colo.

Power & Mining Machinery Co., 52 William, New York. Works, Cudahy, Wis.

Tables (Hide Stretching)

Seymour & Whitlock ("Full Stretch"), Newark, N. J.

Tables (Paper Hangers')

Webster & Perks Tool Co. (Folding, "Simplex"), Springfield, O.

Tables (Picking)

Link Belt Machinery Co., W 39th & Stewart av, Chicago

Howe Scale Co. of Illinois, 1315 Wabash av, Chicago, Ill.

McLanahan-Stone Machine Co., Hollidaysburg, Pa.

Tables (Rolling Mill Feed)

Hogg, Geo. A. Iron & Steel Foundry Co. ("Freeman"), 24th & A. V. R'y., Pittsburgh, Pa.

Lewis Foundry & Machine Co., 1001 Bingham, Pittsburgh

Morgan Engineering Co. (Electric), Alliance, O.

United Engineering & Foundry Co., Farmers' Bank bldg, Pittsburgh, Pa.

Vulcan Foundry & Machine Co., New Castle, Pa.

Tables (Saw Brazing)

Covel Mfg. Co., Benton Harbor, Mich.
Hanchett Sewage Works, Big Rapids, Mich.

*Tables (Steel)

LYON METALLIC MFG. CO. (For all Purposes), Aurora, Ill. (See adv. index, end of book)

Tables (Transfer)

(See Turn & Transfer Tables.)

*Tachographs

SCHAEFFER & BUDENBERG MFG. Co., Foxboro, Mass. (See adv. index & branch offices, end of book)

Tachometers

Empire Machine Co. ("Empire"), 210 3d av, Pittsburg, Pa.

Niagara Tachometer & Instrument Co., Niagara Falls, N. Y.

QUEEN & CO., n. w. c St & Arch, Phila., Pa. (See adv. index, end of book)

SCHAEFFER & BUDENBERG MFG. Co. (Portable, Stationary, Indicating & Recording), Foxboro, Mass. (See adv. index & branch offices, end of book)

STANDARD GAUGE MFG. CO. ("Dr. Horn"), Syracuse, N. Y. (See adv. index, end of book)

Veeder Mfg. Co., Hartford, Conn.

*Tachoscopes

SCHAEFFER & BUDENBERG MFG. Co. (Non-Magnetic), Foxboro, Mass. (See adv. index & branch offices, end of book)

*Tack Claws

(See also Claws, Tack)

Broune & Dowd Mfg. Co. ("Standard Giant"), Meriden, Conn.

Johnson, Wm. (Hedenberg Works), Newark, N. J.

Krauter & Co., Newark, N. J.

Landers, Frary & Clark (Cast Steel & Malleable Iron), New Britain, Conn.

Mayhew, H. H. Co., Shelburne Falls, Mass.

WHITMAN & BARNES MFG. CO., Chicago, Ill. (See adv. index & branch offices, end of book)

Tack Mfrs.

AMERICAN STEEL & WIRE CO., The Rookery, Chicago. (See adv. index & branch offices, end of book)

Anchor Nail & Tack Works, S 19th & S Water, Pittsburg, Pa.

Anderson Tack Co., Rockland, Mass.

Anthony & Cushman Tack Co., Taunton, Mass.

Atlas Tack Co. (Cut & Wire), Fairhaven, Mass.

Binghamton Tack Co. (Carpet, Shoe, Upholsterers, Trimmers, etc.), Binghamton, N. Y.

Carter, Geo. A., Brockton, Mass.

Chicago Tack Co., 7800 Woodlawn av, Chicago, Ill.

Churchill & Allen (Shoe), Lynn, Mass.

Cleveland Tack Works (Shoe, Upholsterers & Carpet), Hamilton av & E 49th, Cleveland, O.

Cobb & Drew, Plymouth, Mass., & Rock Falls, Ill.

Cole, H. C. & W. S., Kingston, Mass.

Cross, W. W. & Co. (Inc.), Brockton, Mass.

Diamond Tack & Nail Works, Rynham, Mass.

Dunham, Geo. B., Brockton, Mass.

Ford, L. E. & Co., Kingston, Mass.

Fuller, G. E. & A. I., Keene, N. H.

Grand Crossing Tack Co., S Chicago av & 79th, Chicago

Gurney, David B., Whitman, Mass.

Haverhill Tack Co., Haverhill, Mass.

H. C. Tack Co., C & P Ry, n Euclid av, Cleveland, O.

Hobart, Benj. Co., Whitman, Mass.

Holland Mfg. Co., Baltimore, Md.

Jones, H. M., Kingston, Mass.

Judson Mfg. Co., San Francisco, Cal.

Keystone Nail Co., 1618 Wash'n av, Philadelphia, Pa.

Kirk-Latty Mfg. Co. (Cut), Cleveland, O.

Maglathin, E. L., Kingston, Mass.

Maglathin, F. W. & Co., Kingston, Mass.

Maglathin, H. B., Silver Lake, Mass.

Maglathin, O. W. & Co., North Hanson, Mass.

Miller's, H. J. Sons (Shank & Machine Shoe), Bridgewater, Mass.

Milwaukee Tack Co., Milwaukee, Wis.

National Screw & Tack Co., Cleveland, O.

Osborne, W. & Co., Lakeville, Mass.

Parker Wire Goods Co. (Wire), Worcester, Mass.

Phillips, Ezra & Sons, South Hanover, Mass.
Plymouth Mills, Plymouth, Mass.
Pratt, Bernard, Kingston, Mass.
Pritchard-Strong Co. (Carpet Double Head),
Rochester, N. Y.

Reading Screw Co., Norristown, Pa.
Ripley & Bartlett, Plymouth, Mass.
Rockford Tack & Nail Co. (Also Nails), Rock-
ford, Ill.
Rome Brass & Copper Co. (Brass & Copper),
Rome, N. Y.

Salmon, Sam'l & Son, Hanover, Mass.
Shelton Co. (Cut), Shelton, Conn.
Stanley, Geo. W. Co., Belleville, Ill.
Stevens & Willis Co., South Braintree, Mass.
Superior Tack & Nail Co., Pen Yan, N. Y.
Talbot, Z., Holliston, Mass.
Tatum, Sam. C. C. (Thumb), 414 W Water,
Cincinnati, O.

Taunton Wire Nail Co. (Wire, Carpet, Bill
Poster, etc.), Taunton, Mass.
Tower Mfg. Co. (Steel, Iron, Copper, etc.),
Commerce & Elm, Cincinnati, O., & Mad-
ison, Ind.

Wire Goods Co., Worcester, Mass.
Woodward, F. E. (Shoe), Kingston, Mass.
York Tack & Nail Wks. (Also Nails), York, Pa.

Tack Mfrs. (Double Pointed)

AMERICAN STEEL & WIRE CO.,
Rookery, Chicago. (See adv. index, &
branch offices, end of book)

Atlas Tack Co., Fairhaven, Mass.
Cobb & Drew, Plymouth, Mass., & Rock Falls
Ill.

Grand Crossing Tack Co., S Chicago av & 79th,
Milwaukee Tack Co., Milwaukee, Wis.
Morgan Spring Co., Worcester, Mass.
Phillips, E. Sons, South Hanover, Mass.
Pickering, R. S., Sharon Hill, Pa.
Plymouth Mills, Plymouth, Mass.

Reading Screw Co., Norristown, Pa.
Stanley, Geo. W. Co., Belleville, Ill.
Superior Tack & Nail Co., Pen Yan, N. Y.
Taunton Wire Nail Co., Taunton, Mass.
Tower Mfg. Co., Commerce & Elm, Cincin-
nati, O., & Madison, Ind.

Wire Goods Co., Worcester, Mass.
WRIGHT WIRE CO., Worcester, Mass.
(See adv. index & branch offices, end of book)

Tack Mfrs. (Lead)

Chadwick-Boston Lead Co., Boston, Mass.

Tack Mfrs. (Upholsterers')

Beman & Co., Binghamton, N. Y.
Cleveland Tack Works, Cleveland, O.
Cobb & Drew, Plymouth, Mass.
Genesee Tack Co., Rochester, N. Y.
Grand Crossing Tack Co., Grand Crossing, Chi-
cago, Ill.

Mattatuck Mfg. Co., Waterbury, Conn.
Milwaukee Tack Co., Milwaukee, Wis.
Plymouth Mills, Plymouth, Mass.
Ripley & Bartlett, Plymouth, Mass.
Salmond, Sam & Son, Hanover, Mass.
Shelton Co., Derby, Conn.
Tockwotton Co., Providence, R. I.
Torrington Mfg. Co., Torrington Conn.
Tower Mfg. Co., Madison, Ind.
Waterman, R. C., Hanover, Mass.

Tack Molds (Plumbers')

Johnson, Wm. (Hedberg Works), Newark,
N. J.

Tacks (Thumb)

Albrecht, Chas. R., 62 Fulton, N. Y.
Hawkes-Jackson Co. (Solid Head), 82 Duane,
New York
Tatum, Samuel C. Co., 414 W Water, Cincin-
nati, O.

Tackle Blocks

(See Blocks, Tackle.)

Tags (Shipping)

(See also Tags, Tin, & Tags, Zinc.)

American Mfg. Co., Battle Creek, Mich.
American Tag Co., State & 61st, Chicago, Ill.
Denny Tag Co., West Chester, Pa.
Folding Paper Box Co., South Bend, Ind.
Gair, Robert Co., Wash'n & Plymouth, Brook-
lyn, N. Y.
Keystone Tag Co., West Chester, Pa.
Murray Mfg. Co., Newnan, Ga.
Thomas Stationery Mfg. Co., Springfield, O.

Tags (Tin)

Ammlon & Co., Baltimore, Md.
Consolidated Fruit Jar Co., New Brunswick,
Monumental Mfg. Co., Baltimore, Md. N. J.
Murdoch, Jas., Jr., Cincinnati, O.
Robinson, J. M. Mfg. Co., Cincinnati, O.
WILSON, F. CORTEZ & CO., 239 Lake,
Chicago, Ill. (See adv. index, end of book)

Tags (Zinc)

Hill, Jas. H. & Sons, Coventry, R. I.

Take-Ups

DODGE MFG. CO., Mishawaka, Ind.
(See adv. index & branch offices, end of book)
Link Belt Co., W 39th & Stewart av, Chicago,
Ill., & 299 B'way, New York
Nordyke & Marmon Co. (Rope), Indianapolis,
Ind.

Talc Mfrs. & Miners.

Atlas, M. & M. Co., Lincoln, N. J., & 82
Pearl, New York
Chemical Mfg. Co., Covington, Ky.
Cohutta Talc Co., Spring Place, Ga.
Doggett, Stanley (Mfrs'. Agts.), 101 Beekman,
New York

Empire Talc & Kaolin Co., Beta, N. C.
LEAVITT, C. W. & CO. (Mfrs'. Agents),
222 B'way, New York. (See adv. index, end
of book)

Massena Mineral Filler Co., Massena, N. Y.
Nantahala Marble & Talc Co., Atlanta, Ga.
North Carolina Talc & Mining Co., Hewitt,
N. C.

Ontaria Talc Co., Gouverneur, N. Y.
Union Talc Co., Gouverneur, N. Y.
United States Talc Co., Gouverneur, N. Y.

Talc (Powdered)

Doggett, Stanley, 101 Beekman, New York
Nevins, Sam'l Co. ("French" & American), 109
S 2d, Phila., Pa.

North Carolina Talc & Mining Co., Hewitt,
N. C.
Salomon, L. A. & Bro. (French), 216 Pearl,
New York

Steward, D. M. Mfg. Co., Chattanooga, Tenn.
Whittaker, W. H., 245 Front, New York
Williams, C. K. & Co., Easton, Pa.

Talking Machine Needles

Hawthorne & Sheble Mfg. Co., Howard &
Jefferson, Phila., Pa.
Symphonic Phone-Needle Co., 1907 Park av,
New York

Tallow

Biggs & Koch, Kansas City, Mo.
Consolidated Rendering Co., 44 N Market,
Boston, Mass.

Elkin, H. & Co., 201 Michigan, Chicago, Ill.
Flavell Co., Asbury Park, N. J.
Marshall, Jacob & Son, Syracuse, N. Y.
Rochester Tallow Co., Rochester, N. Y.
Wise, L. & Bro., 36 Main, Cincinnati, O.

Tampers (Concrete)

ANDERSON, W. H. TOOL & SUPPLY CO.,
14 & 16 Macomb, Detroit, Mich. (See adv.
index, end of book)

Columbus Foundry & Machine Co. ("Embleton"
Power), Columbus, O.
Kramer Bros. Foundry Co. ("Gem" Hand),
Dayton, O.

RANSOME CONCRETE MACHINERY CO.,
Dunellen, N. J. (See adv. index, end of
book)

Tampers (Dirt & Sod)

Dunn Mfg. Co. (For Sewer & Trench Work,
etc.), Westinghouse bldg, Pittsburg, Pa.
Modern Iron Works (Iron Handle), Quincy, Ill.
Swett, A. L. Iron Works, Medina, N. Y.

Tank Fixtures

FAIRBANKS, MORSE & CO., Frank-
lin & Monroe, Chicago, Ill. (See adv. index
& branch offices, end of book)
Kalamazoo Railway Supply Co., Kalamazoo,
Mich.
McGowan, John H. Co. (Water, Railroad
only), 54 Central, av, Cincinnati, O.

Tank Pulls

(See Water Closet Pulls.)

Tank Saddles

(See Boiler Saddles.)

Tanks (Acid)

Aurora Boiler Works (Inc.), Aurora, Ill.
CALDWELL, W. E. CO. (Yellow Pine
or Cypress a Specialty), Brook & D, Louis-
ville, Ky. (See adv. index, end of book)
CORCORAN, A. J., Inc., 11 John, New
York. Works, Jersey City, N. J. (See
adv. index, end of book)
GRAVER, WM. TANK WORKS, East
Chicago, Ind. (See adv. index, end of book)
Hammond Iron Works, Warren, Pa.
KOVEN, L. O. & BRO., 50 Cliff, New York.
(See adv. index, end of book)
NEW YORK CENTRAL IRON WORKS
Co., Geneva, N. Y. (See adv. index, end of
book)

Norcross Co. (Euclid Stone), Cleveland, O.
PETROLEUM IRON WORKS CO.
(Steel), Washington, Pa. See adv. index
& branch offices, end of book)

REEVES BROS. CO., Alliance, O.
(See adv. on following page)

SCAIFE, WM. B. & SONS CO., 221 1st
av, Pittsburg, Pa. (See adv. index, end of
book)

WILSON, F. CORTEZ & CO., 239 Lake,
Chicago, Ill. (See adv. index, end of book)

Tanks (Air)

AMERICAN WELL WORKS, Aurora,
Ill. (See adv. index & branch offices, end
of book)

Aurora Boiler Works (Inc.), Aurora, Ill.
GRAVER, WM. TANK WORKS, East
Chicago, Ind. (See adv. index, end of book)

KEWANEE BOILER CO., Kewanee, Ill., &
169 E. Lake, Chicago, Ill. (See adv. index,
end of book)

KEWANEE WATER SUPPLY CO.,
Kewanee, Ill. (See adv. index, end of book)

KOVEN, L. O. & BRO., 50 Cliff, New York.
(See adv. index, end of book)

INGERSOLL-RAND CO., 11 B'way,
New York. (See adv. index & branch
offices, end of book)

Ironclad Mfg. Co., 204 Varet, Brooklyn, N. Y.
NEW YORK CENTRAL IRON WORKS
Co., Geneva, N. Y. (See adv. index, end of
book)

PETROLEUM IRON WORKS CO.,
Washington, Pa. (See adv. index & branch
offices, end of book)

PRESSED STEEL TANK CO. (Seam-
less Steel), Milwaukee, Wis. (See adv. in-
dex, end of book)

SCAIFE, WM. B. & SONS CO., 221 1st
av, Pittsburg, Pa. (See adv. index, end
of book)

Treadwell, M. H. & Co., 90 West, New York.
Works, Lebanon, Pa.
WILSON, F. CORTEZ & CO., 239 Lake,
Chicago, Ill. (See adv. index, end of book)

*Tanks (Air Brake)

KOVEN, L. O. & BRO., 50 Cliff, New York.
(See adv. index, end of book)

SCAIFE, WM. B. & SONS CO., 221 1st
av, Pittsburg, Pa. (See adv. index, end of
book)

*Tanks (Air Compressor)

KEWANEE BOILER CO., Kewanee, Ill., &
169 E. Lake, Chicago, Ill. (See adv. index,
end of book)

KOVEN, L. O. & BRO., 50 Cliff, New
York. (See adv. index, end of book)

SCAIFE, WM. B. & SONS CO., 221
1st av, Pittsburg, Pa. (See adv. index,
end of book)

Tanks (Asphalt Heating)

(See Heaters Asphalt.)

Tanks (Automobile, Fuel Stor- age)

A-Z Co., 462 11th av, New York
American Generator Co., 63d & Park av, N. Y.

Avery Stamping Co. ("Never Break"), Lake & Coe, Cleveland, O.
BADGER, E. B. & SONS CO., 75 Pitts, Boston, Mass. (See adv. index, end of book)
 Bowser, S. F. & Co., Fort Wayne, Ind.
 Boyer-Radford & Gordon Tank & Pump Co., Dayton, Ohio

Briscoe Mfg. Co., Detroit, Mich.
 Concentrated Acetylene Co. ("Prest-O-Lite"), Indianapolis, Ind.

Dobson, H. E., 120 Liberty, N. Y. City.
 Eastern Oil Tank Co., Lowell, Mass.
 Funke, A. H., 83 Chambers, N. Y.
 Gilbert & Barker Mfg. Co., Springfield, Mass.
 Harps, J. A., Mfg. Co. ("Never-Fail"), Greenfield, O.

Hydraulic Oil Storage & Distributing Co., ("Sneil's"), Penobscot bldg, Detroit, Mich.
 International Non-Explosive Tank Co., 140 Nassau, New York

Iron Clad Mfg. Co., 204 Varet, Brooklyn, N. Y.
 Kaitenbach, Fred., 10 Jefferson, Chicago, Ill.
KEWANEE BOILER CO., Kewanee, Ill., & 169 E. Lake, Chicago, Ill. (See adv. index, end of book)

Kinsey Mfg. Co., Dayton, Ohio
KOVEN, L. O. & BRO., 50 Cliff, New York. (See adv. index, end of book)

National & Tank Co., Dayton, Ohio.
 Non-Explosive Can & Device Co., 84 Chambers

Safety Tank Co., 25 W. 42d, N. Y. City.
 Tokheim Mfg Co., Cedar Rapids, Ia.
 Sexton Can Co., 2 Hartford, Boston, Mass.

Western Oil Pump Co., 2437 Kosciusko, St. Louis, Mo.
WILSON, F. CORTEZ & CO., 239 Lake, Chicago, Ill. (See adv. index, end of book)

Tanks (Beet Sugar Syrup)

GRAVER, WM. TANK WORKS, East Chicago, Ind. (See adv. index, end of book)
KOVEN, L. O. & BRO., 50 Cliff, New York. (See adv. index, end of book)
 Treadwell, M. H. & Co., 90 West, New York Works, Lebanon, Pa.

Tanks (Blow-Off)

Estabrook's, R. Sons ("Boston" with "Clean-out Cover"), 204 W. 1st, S. B., Boston, Mass.
KEWANEE BOILER CO., Kewanee, Ill., & 169 E. Lake, Chicago, Ill. (See adv. index, end of book)
NEW YORK CENTRAL IRON WORKS Co., Geneva, N. Y. (See adv. index, end of book)

Tanks (Brazing)

Ironclad Mfg. Co., 204 Varet, Brooklyn, N. Y.
KOVEN, L. O. & BRO., 50 Cliff, New York. (See adv. index, end of book)

*Tanks (Calcium Light)

KOVEN, L. O. & BRO., 50 Cliff, New York. (See adv. index, end of book)
SCAIFE, WM. B. & SONS CO., 221 1st av, Pittsburg, Pa. (See adv. index, end of book)

*Tanks (Car Lighting)

PRESSED STEEL TANK CO., Milwaukee, Wis. (See adv. index, end of book)
SCAIFE, WM. B. & SONS CO., 221 1st av, Pittsburg, Pa. (See adv. index, end of book)

*Tanks (Car Wheel Annealing)

GRAVER, WM. TANK WORKS, East Chicago, Ind. (See adv. index, end of book)
SCAIFE, WM. B. & SONS CO., 221 1st av, Pittsburg, Pa. (See adv. index, end of book)

Tanks (Car & Boat)

GRAVER, WM. TANK WORKS (Oil & Acid), East Chicago, Ind. (See adv. index, end of book)
PETROLEUM IRON WORKS CO., Washington, Pa. (See adv. index, end of book)

Pollock, Wm. B. Co., Youngstown, O.
 Petty, J. K. & Co. (Lebanon Boiler Works), 206 N 4th, Phila., Pa. Works, Lebanon, Pa.

REEVES BROS. CO., Alliance, O. (See adv. below)
SCAIFE, WM. B. & SONS CO., 221 1st av, Pittsburg, Pa. (See adv. index, end of book)

*Tanks (Cast Iron Storage)

BETHLEHEM FOUNDRY & MACHINE Co., Front, South Bethlehem, Pa., & 149 B'way, New York. (See adv. index, end of book)

*Tanks (Cold Storage)

KOVEN, L. O. & BRO., 50 Cliff, New York. (See adv. index, end of book)
PETROLEUM IRON WORKS CO., Washington, Pa. (See adv. index, end of book)

Tanks (Compressed Air)

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)

Aurora Boiler Works (Inc.), Aurora, Ill.
GRAVER, WM. TANK WORKS, East Chicago, Ind. (See adv. index, end of book)

KEWANEE BOILER CO., Kewanee, Ill., & 169 E. Lake, Chicago, Ill. (See adv. index, end of book)

KEWANEE WATER SUPPLY CO., Kewanee, Ill. (See adv. index, end of book)

KOVEN, L. O. & BRO., 50 Cliff, New York. (See adv. index, end of book)
NEW YORK CENTRAL IRON WORKS Co., Geneva, N. Y. (See adv. index, end of book)

PETROLEUM IRON WORKS CO., Washington, Pa. (See adv. index, end of book)

Power & Mining Machinery Co., 52 William, New York Works, Cudahy, Wis.

SCAIFE, WM. B. & SONS CO., 221 1st av, Pittsburg, Pa. (See adv. index, end of book)

Treadwell, M. H. & Co., 90 West, New York Works, Lebanon, Pa.

Tanks (Concrete Steel)

Aurora Boiler Works (Inc.), Aurora, Ill.
KOVEN, L. O. & BRO., 50 Cliff, New York. (See adv. index, end of book)
 Trussed Concrete Steel Co., Home Office, Wayne Co. Saving Bk. bldg, Detroit, Mich.

*Tanks (Condenser)

GRAVER, WM. TANK WORKS, East Chicago, Ind. (See adv. index, end of book)
PETROLEUM IRON WORKS CO., Washington, Pa. (See adv. index, end of book)

Tanks (Copper)

Badger, E. B. & Sons Co., 63 Pitts, Boston, Mass.
 Briscoe Mfg. Co., 1429 Woodward av, Detroit, Mich.
 Hayes Mfg. Co., 825 Maybury, Grand av, Detroit, Mich.
 Kells, W. J. Mfg. Co., 62 Van Winkle, Jersey City, N. J.
KOVEN, L. O. & BRO., 50 Cliff, New York. (See adv. index, end of book)
 Quinby, J. M. & Co., 27 Division, Newark, N. J.

Randolph-Clowes Co., Waterbury, Conn.
 Rome Brass & Copper Co., Rome, N. Y.

Trageser, John, Steam Copper Works, 447 W. 26th, New York

Walker, James & Son, 43 Jefferson av, Detroit, Mich.
WILSON, F. CORTEZ & CO., 239 Lake, Chicago, Ill. (See adv. index, end of book)

*Tanks (Creosoting)

Aurora Boiler Works (Inc.), Aurora, Ill.
KOVEN, L. O. & BRO., 50 Cliff, New York. (See adv. index, end of book)

Tanks (Cyanide)

(See also Tanks, Wood.)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

Aurora Boiler Works (Inc.), Aurora, Ill.
CALDWELL, W. E. CO., Louisville, Ky. (See adv. index, end of book)

Denver Engineering Works Co., Denver, Colo.
 Fleming Tank Co., 3 115 Liberty, Pittsburg, Pa.

GRAVER, WM. TANK WORKS, East Chicago, Ill. (See adv. index, end of book)
 Hammond Iron Works, Warren, Pa.

Harmon, S. H. Lumber Co., San Francisco, Cal.

KOVEN, L. O. & BRO., 50 Cliff, New York. (See adv. index, end of book)
 Mine & Smelter Supply Co., Denver, Colo.

MINNEAPOLIS STEEL & MACHINERY Co., Minneapolis, Minn. (See adv. index & branch offices, end of book)

Pacific Tank Co., San Francisco, Cal., & Los Angeles, Cal.

PETROLEUM IRON WORKS CO., Washington, Pa. (See adv. index, end of book)

Power & Mining Machinery Co. (Steel), 52 William, New York Works, Cudahy, Wis.
REEVES BROS. CO., Alliance, O. (See adv. below)

WE MANUFACTURE

Oil and Acid Tanks,
 Oil Refinery Work,
 Car Tanks,
 Rotary Dryer Cylinders,
 Rotary Cement Cylinders,
 Blast Furnaces,
 Annealing Boxes,
 Standpipes, Water Towers,
 Converters, Ladles,
 Boilers, Heaters,
 Girders, Steel Buildings,
 Grain Elevators,
 Copper Furnaces,
 Clinker Coolers, etc.

SELF-SUPPORTING STACKS.

Galv. and Tinning Pots, Penstocks and Riveted Pipe
 Lime Kilns, Creosoting Cylinders,
 Brick Hardening Cylinders, Cyanide Tanks.

Heavy and Light Plate Construction
 of Every Description Erected Anywhere.

THE REEVES BROTHERS COMPANY
 Alliance, Ohio, U. S. A.



Redwood Mfg. Co. (Cal. Redwood), 8 California, San Francisco, Cal.
SCAIFE, WM. B. & SONS CO., 221 1st av, Pittsburg, Pa. (See adv. index, end of book)
 Silver Bros. Iron Works Co., Salt Lake City, Utah
 Thomson & Boyle Co., Los Angeles, Cal.
 Treadwell, M. H. & Co., 90 West, New York Works, Lebanon, Pa.
 Weigle Riveted Steel Pipe Works, 2949 Larimer, Denver, Col.

Tanks (Cylindrical)

KOVEN, L. O. & BRO., 50 Cliff, New York. (See adv. index, end of book)
 Petty, J. K. & Co. (Lebanon Boiler Works), 206 N. 4th, Phila., Pa. Works, Lebanon, Pa.
WILSON, F. CORTEZ & CO., 239 Lake, Chicago, Ill. (See adv. below)

*Tanks (Dipping)

GRAVER, WM. TANK WORKS, East Chicago, Ind. (See adv. index, end of book)
KOVEN, L. O. & BRO., 50 Cliff, New York. (See adv. index, end of book)
WILSON, F. CORTEZ & CO., 239 Lake, Chicago, Ill. (See adv. below)

Tanks (Elevator)

CORCORAN, A. J. (Inc.), 11 John, New York Works, Jersey City, N. J. (See adv. index, end of book)
GRAVER, WM. TANK WORKS, East Chicago, Ind. (See adv. index, end of book)
PETROLEUM IRON WORKS CO., Washington, Pa. (See adv. index, end of book)
 Treadwell, M. H. & Co., 90 West, New York Works, Lebanon, Pa.

Tanks (Enameled Iron Closet)

Pittsburg Sanitary Mfg. Co. ("Reed" Low-down), Pittsburg, Pa.

Tanks (Expansion)

AMERICAN RADIATOR CO. ("Ideal," Automatic, etc.), General Office 282 Michigan av, Chicago, Ill. (See adv. index & branch offices, end of book)
 Cody, Jos. & Sons, Peoria, Ill.
 Detroit Range Boiler Co., 619 24th, Detroit, Mich.
 Drake, Wm., Springfield, Ill.
 Frost Mfg. Co., Galesburg, Ill.
GRAVER, WM. TANK WORKS, East Chicago, Ind. (See adv. index, end of book)
 Grote Mfg. Co., Evansville, Ind.
 Hibbs, E. A., 212 Quarry, Philadelphia, Pa.
 Hopson & Chapin Mfg. Co. (Cast Iron Automatic Feed), New London, Conn.
 Ideal Mfg. Co., 546 Franklin, Detroit, Mich.
 Iron Clad Mfg. Co., 204 Varet, Brooklyn, N. Y.
KEWANEE BOILER CO., Kewanee, Ill. (See adv. index, end of book)
KOVEN, L. O. & BRO., 50 Cliff, New York. (See adv. index, end of book)
 Lawler Water, Feed & Damper Regulator Co. ("Lawler's" Automatic), 473 W. Broadway, New York

McAleenan Boiler Co., Peoria, Ill.
 Mackay Mfg. Co., 66 James, Newark, N. J.
 Michelman Boiler Co., Quincy, Ill.
 Mott, J. L., Iron Works, 118 5th av, New York
 Niagara Radiator Co., Buffalo, N. Y., & N. Tonawanda, N. Y.
 Murray Iron Works Co., Burlington, Ia.
NEW YORK CENTRAL IRON WORKS Co., Geneva, N. Y. (See adv. on following page)

Page, W. H. Boiler Co., Norwich, Conn.
 Penna. Range Boiler Co., 2010 N 10th & Norrils, Phila., Pa.

PRESSED STEEL TANK CO., Milwaukee, Wis. (See adv. index, end of book)
 Pierce, Butler & Pierce Mfg. Co., Syracuse, N. Y.

Ronalds & Johnson Co., 51 Boerum pl, Brooklyn, N. Y.

SCAIFE, WM. B. & SONS CO., 221 1st av, Pittsburg, Pa. (See adv. index, end of book)

Springfield Boiler & Mfg. Co., Springfield, Ill.
 Star Boiler Works (Inc.), Clinton, Ia.
 Thompson Iron Works, 1825 Callowhill, Phila., Pa.

Trageser, John, 477 W 26th, New York
 Treadwell, M. H. & Co., 90 West, New York Works, Lebanon, Pa.
 Wolff, L. Mfg. Co., 117 W. Lake, Chicago, Ill.
 Wood, John Mfg. Co. (Electric Welded Seamless), Conshohocken, Pa.

Tanks (Filter)

American Pure Water Supply Co., Ashtabula, Ohio
 Holderman Filter Tank Co., Salt Lake City, Utah

KEWANEE WATER SUPPLY CO., Kewanee, Ill. (See adv. index, end of book)

KOVEN, L. O. & BRO., 50 Cliff, New York. (See adv. index, end of book)

NEW YORK CENTRAL IRON WORKS Co., Geneva, N. Y. (See adv. on following page)

PETROLEUM IRON WORKS CO., Washington, Pa. (See adv. index, end of book)

Tanks (Fire Extinguisher)

KOVEN, L. O. & BRO., 50 Cliff, New York. (See adv. index, end of book)

Safety Fire Extinguisher Co. ("Safety" Fire Bucket Tanks), 29 W 42d, New York

SCAIFE, WM. B. & SONS CO., 221 1st av, Pittsburg, Pa. (See adv. index, end of book)

Tanks (Fuel Oil).

GRAVER, WM. TANK WORKS, East Chicago, Ind. (See adv. index, end of book)

KOVEN, L. O. & BRO., 50 Cliff, New York. (See adv. index, end of book)

Old Colony Light Co. ("Puritan"), Boston, Mass.

PETROLEUM IRON WORKS CO., Washington, Pa. (See adv. index, end of book)

WILSON, F. CORTEZ & CO. 239 Lake, Chicago, Ill. (See adv. below)

Tanks (Galvanized Steel)

Bowser, S. F. & Co. (Inc.), Ft. Wayne, Ind.
 Boyer-Radford & Gordon Tank & Pump Co., Dayton, O.

Butler Co., Butler, Ind.
CALDWELL, W. E. CO., Brook & D, Louisville, Ky. (See adv. index, end of book)

Chicago Steel Tank Co., 194 Mather, Chicago
 Dickelman Mfg. Co., Forest, O.

FAIRBANKS, MORSE & CO., Frank-lin & Monroe, Chicago, Ill. (See adv. index & branch offices, end of book)

Flint & Walling Mfg. Co., Kendallville, Ind.
 Freeland, B. F. Sons Co., Sturgis, Mich.

Harry Bros. Co. (Corrugated), Dallas, Tex.
 Hunt & Dorman Mfg. Co. (Iron Storage), 21 Bright, Cleveland, O.

Kelly Foundry & Machine Co., Goshen, Ind.
KEWANEE BOILER CO., Kewanee, Ill. & 169 E. Lake, Chicago, Ill. (See adv. index, end of book)

KOVEN, L. O. & BRO., 50 Cliff, New York. (See adv. index, end of book)

Littleford Bros., 453 B Pearl, Cincinnati, O.
LYON METALLIC MFG. CO., Aurora, Ill. (See adv. index, end of book)

MILWAUKEE CORRUGATING CO., Milwaukee, Wis. (See adv. index, end of book)

Muenzermayer, J. J. & W. F. (Iron Stock), Junction City, Kans.

NEW YORK CENTRAL IRON WORKS Co., Geneva, N. Y. (See adv. on following page)

Ohio Galvanizing & Mfg. Co. (Steel), Niles, O.
 Omaha Tank Mfg. Co., Omaha, Nebr.

PETROLEUM IRON WORKS CO., Washington, Pa. (See adv. index, end of book)

Power & Mining Machinery Co., 52 William, New York Works, Cudahy, Wis.

SCAIFE, WM. B. & SONS CO., 221 1st av, Pittsburg, Pa. (See adv. index, end of book)

Tallerday Steel Pipe & Tank Co. (Stock, Storage, Creamery, etc.), Waterloo, Iowa

Treadwell, M. H. & Co., 90 West, New York Works, Lebanon, Pa.

Waterloo Mfg. Co. (Stock, Storage, Creamery, etc.), Waterloo, Iowa.

WILSON, F. CORTEZ & CO., 239 Lake, Chicago, Ill. (See adv. below)

Tanks (Gas Engine)

KOVEN, L. O. & BRO., 50 Cliff, New York. (See adv. index, end of book)

PRESSED STEEL TANK CO., Milwaukee, Wis. (See adv. index, end of book)

SCAIFE, WM. B. & SONS CO., 221 1st av, Pittsburg, Pa. (See adv. index, end of book)

WILSON, F. CORTEZ & CO., 239 Lake, Chicago, Ill. (See adv. below)

Tanks (Gasoline)

Avery Stamping Co. ("Never Break"), Lake & Col., Cleveland, Ohio

Bowser, S. F. & Co., Inc. (Self Measuring), Ft. Wayne, Ind.

Boyer-Radford & Gordon Tank & Pump Co., Dayton, O.

F. CORTEZ WILSON & CO., Sheet Metal Works

239 and 241 Lake Street, CHICAGO.

SPECIALTIES FOR THE OIL, VARNISH, PAINT, DRUG,
 GROCERY, WATER, HARDWARE, RAILROAD,
 PRINTING, MILL, MACHINERY AND
 SPORTING GOODS TRADE.

TANKS AND PUMPS; CANS AND BOXES; APPROVED BENZINE CANS; ACCURATE MEASURES FUNNELS, WATER COOLERS AND STANDS; PERCOLATORS, LABORATORY APPARATUS; TOOL RACKS, FACTORY SUPPLIES; ASH BARRELS, OILY WASTE CANS; MACHINE PARTS, MANUFACTURERS' SUNDRIES; BLUE PRINT AND MAP TUBES; CONTRACTORS' EQUIPMENT; CAMP COOKING OUTFITS; OILERS, RAILROAD TINTWARE; HEADLIGHTS, ACETYLENE LIGHTING; DIPPERS AND PAINT ROOM TOOLS; GUARDS, HOUSINGS, ENGINE ROOM FITTINGS, CUPS, PANS, PAILS AND TUBS; PAINT MIXERS, OIL FILTERS, GASOLINE STORAGE OUTFITS.

GEORGE LANDIS WILSON

MERCHANDISE FACTOR

DIRECT REPRESENTATION IN THE
 CHICAGO DISTRICT FOR MANU-
 FACTURERS AND PRODUCERS.

A RESIDENT SELLING ORGANIZATION

239 LAKE STREET, CHICAGO

GRAVER, WM. TANK WORKS, East
Chicago, Ind. (See adv. index, end of book)
KEWANEE BOILER CO., Kewanee, Ill.,
& 169 E. Lake, Chicago, Ill. (See adv.
index, end of book)
KOVEN, L. O. & BRO., 50 Cliff, New York.
(See adv. index, end of book)
NEW YORK CENTRAL IRON WORKS
Co., Geneva, N. Y. (See adv. below)
SCAIFE, WM. B. & SONS CO., 221 1st
av, Pittsburg, Pa. (See adv. index, end of
book)
WILSON, F. CORTEZ & CO., 239 Lake,
Chicago, Ill. (See adv. on preceding page)

*Tanks (Glass)

AMSLER ENGINEERING CO., Diamond
Bank bldg, Pittsburg, Pa. (See adv. in-
dex & branch offices, end of book)

Tanks (Grain Elevator)

GRAVER, WM. TANK WORKS, East
Chicago, Ind. (See adv. index, end of book)
KOVEN, L. O. & BRO., 50 Cliff, New York.
(See adv. index, end of book)
PETROLEUM IRON WORKS CO., Wash-
ington, Pa. (See adv. index, end of book)
Pollock, Wm. B. Co., Youngstown, O.
REEVES BROS CO., Alliance, O. (See adv.
index, end of book)
SCAIFE, WM. B. & SONS CO., 221 1st
av, Pittsburg, Pa. (See adv. index, end of
book)

*Tanks (Grain Storage)

KOVEN, L. O. & BRO., 50 Cliff, New York.
(See adv. index, end of book)
MINNEAPOLIS STEEL & MACHIN-
ery Co., Minneapolis, Minn. (See adv. in-
dex & branch offices, end of book)

Tanks (High Pressure)

AMERICAN WELL WORKS, Aurora,
Ill. (See adv. index & branch offices, end
of book)
GRAVER, WM. TANK WORKS, East
Chicago, Ind. (See adv. index, end of book)
Hammond Iron Works, Warren, Pa.
KEWANEE BOILER CO., Kewanee, Ill.,
& 169 E. Lake, Chicago, Ill. (See adv.
index, end of book)
KOVEN, L. O. & BRO., 50 Cliff, New York.
(See adv. index, end of book)
NEW YORK CENTRAL IRON WORKS
Co., Geneva, N. Y. (See adv. below)
PETROLEUM IRON WORKS CO.,
Washington, Pa. (See adv. index, end of
book)
PRESSED STEEL TANK CO., Mil-
waukee, Wis. (See adv. on following page)
SCAIFE, WM. B. & SONS CO., 221 1st
av, Pittsburg, Pa. (See adv. index, end of
book)
Treadwell, M. H. & Co., 90 West, New York.
Works, Lebanon, Pa.

Tanks (Hydrogen & Oxygen)

Ironclad Mfg. Co., 204 Varet, Brooklyn, N. Y.
KOVEN, L. O. & BRO., 50 Cliff, New York.
(See adv. index, end of book)
PRESSED STEEL TANK CO., Mil-
waukee, Wis. (See adv. on following page)
SCAIFE, WM. B. & SONS CO., 221 1st
av, Pittsburg, Pa. (See adv. index, end of
book)

Tanks (Indurated Fibre)

United Indurated Fibre Co. of N. J. (for High
Tension Oil Switches), Lockport, N. Y.

Tanks (Iron & Steel)

ABENDROTH & ROOT MFG. CO.,
Newburgh, N. Y. (See adv. index & branch
offices, end of book)
Aermotor Co. (Steel only), -Campbell av, nr
12th, Chicago
Allentown Boiler Works (Collum & Knouse,
Props.), Allentown, Pa.
AMERICAN WELL WORKS, Aurora,
Ill. (See adv. index & branch offices, end
of book)
Aurora Boiler Works, Aurora, Ill.
Baker Mfg. Co., Evansville, Wis.
Bartlett, Hayward & Co., Baltimore, Md.
Biggs Boiler Works Co., Akron, O.
Birmingham Boiler Works, Birmingham, Ala.
Borger Bros. Co., Columbus, O.
Bowser, S. F. & Co. (Inc.), Ft. Wayne, Ind.
Bridgeport Boiler Works, Bridgeport, Conn.
Briscoe Mfg. Co., 1429 Woodward av, Detroit,
Mich.
Bryan, E. A. Co. (Steel Storage), 1st Nat'l
Bank bldg, Chicago, Ill. Works, Harvey, Ill.
CALDWELL, W. E. CO., Brook & D,
Louisville, Ky. (See adv. index, end of book)
Canton Boiler & Engineering Co., Canton, O.
Chicago Bridge & Iron Works (Horace E Hor-
ton, Prop.), W 105th & Throop, Chicago, Ill.
Childs, S. D. & Co. (Brass, Steel & Alumi-
num), 200 Clark, Chicago, Ill.
Coatesville Boiler Works, Coatesville, Pa.
CODD, E. J. CO., Baltimore, Md. (See
adv. index, end of book)
Cole, R. D. Mfg. Co., Newnan, Ga.
Columbiana Boiler Co., Columbiana, O.
Columbus Steam Boiler & Heater Co., Kim-
ball st., Columbus, O.
Cruse-Kemper Co. (Oil & Water), Ambler, Pa.
Deily & Fowler (Oil & Water, etc.), 39 Lau-
rel, Phila., Pa.
Du Bois Iron Works, Du Bois, Pa.
East Jersey Pipe Co., 71 B'way, New York
Edge Moor Iron Co., Wilmington, Del.
Ethyre, E. L. & Co., Oregon, Ill.
Enterprise Boller Co., Youngstown, O.
Fargo Iron & Fdry. Co., Fargo, N. D.
Fitzgibbons Boller Co., Oswego, N. Y.
Folsom, C. G., South Bend, Ind.
Freeland Mfg. Co. (Inc.) (Steel), Niles, Mich.
Freeman, S. & Sons Mfg. Co. (also Tanks,
Wood), Racine, Wis.
Gem City Boiler Co., Dayton, O.
Girard Boiler & Mfg. Co., Girard, O.
GRAVER, WM. TANK WORKS, East
Chicago, Ind. (See adv. index, end of book)

Hamler Boiler & Tank Co., 3906 S Halstead,
Chicago, Ill.
Hammond Iron Works (Steel), Warren, Pa.
Harrisburg Foundry & Machine Works, Harris-
burg, Pa.
Hartley's Boiler Works, Montgomery, Ala.
Hellman Boller Works, Allentown, Pa.
Hendrick Mfg. Co., Carbondale, Pa.
Hibbs, E. A. (Oil, Drip, Blow-off, Storage, etc.),
213 Quarry, Phila., Pa.
Hodge Boiler Wks., Sumner nr N Ferry, E. Bos-
ton, Mass.
Hughes & Stewart (and Smelting Work), Con-
tinental bldg, Denver, Col.
Jarvis Engine & Machine Works, Lansing,
Keeler, E. Co., Williamsport, Pa. Mich.
Kehoe, Wm. & Sons, Savannah, Ga.
Kensington Engine Works (Ltd.), 245 N Broad,
Philadelphia, Pa.
Kerr-Murray Mfg. Co., Ft. Wayne, Ind.
KEWANEE WATER SUPPLY CO.,
Kewanee, Ill. (See adv. index, end of book)
KOVEN, L. O. & BRO., 50 Cliff, New York.
(See adv. index, end of book)
Kroeschell Bros. Co., 55 Erie, Chicago, Ill.
Lappan, Jas. Mfg. Co., 20th & Pike, Pittsburg,
Leetonia Boiler Co., Leetonia, O. Pa.
Lookout Boiler & Mfg. Co., Chattanooga, Tenn.
Love Bros. (Inc.), Aurora, Ill.
McDermott Bros., Allentown, Pa.
McNeil, Jas. & Bro. Co., 29th & A. V. Ry.,
Pittsburg, Pa.
Meehan Boiler & Construction Co., Lowell-
ville, O.
Michelmann Steel Construction Co., Quincy,
Illinois
Milwaukee Boiler Co., Milwaukee, Wis..
MILWAUKEE CORRUGATING CO.,
Milwaukee, Wis. (See adv. index, end of
book)
MINNEAPOLIS STEEL & MACHIN-
ery Co., Minneapolis, Minn. (See adv. in-
dex & branch offices, end of book)
Munroe, R. & Sons Corporation Co., 23d &
Smallman, Pittsburg, Pa.
Newbold, R. S. & Son Co., Norristown, Pa.
NEW YORK CENTRAL IRON WORKS
Co., Geneva, N. Y. (See adv. below)
North Penn Iron Co., North Penn Junction,
Philadelphia, Pa.
Novelty Steam Boiler Works (Triplett & Jen-
nings, Props.), 917 Howard, Baltimore, Md.
OIL CITY BOILER WORKS (Inc.),
Oil City, Pa., & 39 Cortlandt, New York,
N. Y. (See adv. index, end of book)
Optenberg & Sonneman, Sheyboygan, Wis.
Oswego Boiler & Engine Co., Oswego, N. Y.
Pacific Tank Co., San Francisco, Cal., & Los
Angeles, Cal.
Penman Steel & Iron Works, Beaumont, Tex.
Penna. Boiler Works, Erie, Pa.
Penna. Steel Co. (Steel), Steelton, Pa.
Pennsylvania Iron Works, Erie, Pa.
PETROLEUM IRON WORKS CO.
(Gas, Oil & Water), Washington, Pa. (See
adv. index & branch offices, end of book)
Petty, J. K. & Co., Lebanon, Pa.
Pfleffer, Chrls. Boiler Co., 70 Michigan, Chicago
Phoenix Iron Works, Portland, Ore.
Phoenix Iron Works Co., Meadville, Pa.
Porter Foundry & Machine Co., Allegheny, Pa.
Portland Co., 58 Fore, Portland, Me.
Pollock, Wm. B. Co., Youngstown, O.
Port Huron Engine & Thresher Co. (Steel,
Water), Port Huron, Mich.

ALL KINDS

TANKS

ALL PURPOSES

NEW YORK CENTRAL IRON WORKS CO.

GENEVA, NEW YORK, U. S. A.

THE DUNNING HEATING BOILERS
FLUMES and SPECIAL PLATE WORK

WRITE US

Power & Mining Machinery Co. (For Mining Purposes, etc.), 52 William, New York Works, Cudahy, Wis.

Pusey & Jones Co., Wilmington, Del.

REEVES BROS. CO., Alliance, O. (See adv. index, end of book)

Riter-Conley Mfg. Co., 56 Water, Pittsburg, Pa. & 111 B'way, New York

Ricard Boiler & Engine Co., Toledo, O.

Robb-Munford Boiler Co. (Inc.), S. Framingham, Mass.

Roberts Iron Works Co., Cambridgeport, Mass.

RUGGLES-COLES ENGINEERING CO., 39 Cortlandt, New York. (See adv. index, end of book)

RUSSEL WHEEL & FOUNDRY CO., Detroit, Mich. (See adv. index, end of book)

SCAIFE, WM. B. & SONS CO., 221 1st av, Pittsburg, Pa. (See adv. index, end of book)

Scioto Boiler Works, 33, N. Scioto, Columbus, Ohio

Sutter Bros., Pottstown, Pa.

Springfield Boiler & Mfg. Co., Springfield, Ill.

Stacey Mfg. Co., Elmwood pl, Cincinnati, O

Star Boiler Works, c 8th av & 1st, Clinton, Ia.

Struthers-Wells Co. (of all Descriptions), Warren, Pa.

Tippett & Wood, Phillipsburg, N. J.

Treadwell, M. H. & Co., 90 West, New York Works: Lebanon, Pa.

Turl's, Jno. Sons (Inc.), 26 Cortlandt, New York Works, Newburg, N. Y.

Union Boiler & Mfg. Co., Lebanon, Pa.

Union Iron Works, San Francisco, Cal.

Union Iron Works, Erie, Pa.

United States Wind Engine & Pump Co., Batavia, Ill.

Variety Iron & Steel Works Co., Cleveland, O.

Walsh's Holyoke Steam Boiler Works, Holyoke, Mass.

Wanger, Jos. F., Boiler & Sheet Iron Co., 1547 N. 9th, St. Louis, Mo.

Warren City Boiler Works, Warren, Ohio

Waterloo Mfg. Co., Waterloo, Ia.

Watson, Jas. H. Co. (Inc.), Bradley, Ill

Webber Iron Works, Birmingham, Ala.

Weigele, Wm. A. Steel Pipe Works, Larimer & 30th, Denver, Colo.

White, Robt. Engineering Works, ft. of Columbia, Brooklyn, N. Y.

WILFONG BROS., 52d & Grays av, Phila., Pa. (See adv. index, end of book)

WILSON, F. CORTEZ & CO., 239 Lake Chicago, Ill. (See adv. index, end of book)

WORDEN-ALLEN CO., P. O. Box 528 Milwaukee, Wis. (See adv. index & branch offices, end of book)

York Mfg. Co., York, Pa.

*Tanks (Jacketed)

GRAVER, WM. TANK WORKS, East Chicago, Ind. (See adv. index, end of book)

KOVEN, L. O. & BRO., 50 Cliff, New York (See adv. index, end of book)

WILSON, F. CORTEZ & CO., 239 Lake Chicago, Ill. (See adv. index, end of book)

Tanks (Lead)

BADGER, E. B. & SONS CO., 75 Pitts. Boston, Mass. (See adv. index, end of book)

Colwell Lead Co., 51 Centre, New York.

Tanks (Lighting System)

Avery Portable Lighting Co. ("Autogas"), Milwaukee, Wis.

Avery Stamping Co. ("Never Break" Steel), Lake & Coe, Cleveland, O.

PRESSED STEEL TANK CO., Milwaukee, Wis. (See adv. below)

Tanks (Metal)

American Can Co., 447 W. 14th St, New York

KOVEN, L. O. & BRO., 50 Cliff, New York (See adv. index, end of book)

LYON METALLIC MFG. CO., 10 Ann, Aurora, Ill. (See adv. index, end of book)

Tanks (Mixing)

Aurora Boiler Works (Inc.), Aurora, Ill.

KOVEN, L. O. & BRO., 50 Cliff, New York (See adv. index, end of book)

Hammond Iron Works, Warren, Pa.

Treadwell, M. H. & Co., 90 West, New York Works, Lebanon, Pa.

WILSON, F. CORTEZ & CO., 239 Lake, Chicago, Ill. (See adv. index, end of book)

Tanks (Molasses)

Chicago Bridge & Iron Works, Throop & 105th, Chicago, Ill.

GRAVER, WM. TANK WORKS, East Chicago, Ind. (See adv. index, end of book)

PETROLEUM IRON WORKS CO., Wash- ington, Pa. (See adv. index & branch offices, end of book)

Hammond Iron Works, Warren, Pa.

KOVEN, L. O. & BRO., 50 Cliff, New York (See adv. index, end of book)

Treadwell, M. H. & Co., 90 West, New York Works, Lebanon, Pa.

WILSON, F. CORTEZ & CO., 239 Lake, Chicago, Ill. (See adv. index, end of book)

*Tanks (Motor Boat)

WILSON, F. CORTEZ & CO., 239 Lake, Chicago, Ill. (See adv. index, end of book)

*Tanks (Muffle)

KOVEN, L. O. & BRO., 50 Cliff, New York (See adv. index, end of book)

SCAIFE, WM. B. & SONS CO., 221 1st av, Pittsburg, Pa. (See adv. index, end of book)

Tanks (Oil)

***ALLIS-CHALMERS CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)

Aurora Boiler Works (Inc.), Aurora, Ill.

Bowser, S. F. & Co. (Inc.) (Self Measuring), Ft. Wayne, Ind.

Chicago Bridge & Iron Works, Throop & 105th, Chicago, Ill.

Cruse-Kemper Co., Ambler, Pa.

Deity & Fowler, 39 Laurel, Phila., Pa.

Delphos Mfg. Co. (Non-Overflowing), Delphos, Ohio

Dobson, H. E., 120 Liberty, N. Y. City.

GRAVER, WM. TANK WORKS, East Chicago, Ind. (See adv. index, end of book)

Hammond Iron Works, Milwaukee, Wis.

Hydraulic Oil Storage & Distributing Co., Detroit, Mich.

KEWANEE BOILER CO., Kewanee, Ill., & 169 E. Lake, Chicago, Ill. (See adv. index, end of book)

KOVEN, L. O. & BRO., 50 Cliff, New York (See adv. index, end of book)

Lacy Mfg. Co., Los Angeles, Cal.

Manufacturers' Can Co., 432 Mulberry, Newark, N. J.

National Oil Pump & Tank Co., Dayton, Ohio.

National Supply Co. (Fuel Oil Storage), 315 Dearborn, Chicago, Ill.

NEW YORK CENTRAL IRON WORKS Co., Geneva, N. Y. (See adv. on preceding page)

PETROLEUM IRON WORKS CO., Wash- ington, Pa. (See adv. index & branch offices, end of book)

Pollock, Wm. B. Co., Youngstown, Ohio.

REEVES BROS. CO., Alliance, O. (See adv. index & branch offices, end of book)

SCAIFE, WM. B. & SONS CO., 221 1st av, Pittsburg, Pa. (See adv. index, end of book)

Treadwell, M. H. & Co., 90 West, New York Works, Lebanon, Pa.

Western Oil Pump Co., 2437 Kosciusko, St. Louis, Mo.

WILSON, F. CORTEZ & CO., 239 Lake, Chicago, Ill. (See adv. index, end of book)

Tanks (Oxygen)

(See Tanks, Hydrogen & Oxygen)

Tanks (Pneumatic Water)

American Pure Water Supply Co., Ashtabula, O.

KEWANEE WATER SUPPLY CO., Kewanee, Ill. (See adv. index, end of book)

KOVEN, L. O. & BRO., 50 Cliff, New York (See adv. index, end of book)

Leader Iron Works, Decatur, Ill.

National Steel Tank Co., Pekin, Ill.

NEW YORK CENTRAL IRON WORKS Co., Geneva, N. Y. (See adv. on preceding page)

*Tanks (Pressed Steel)

PRESSED STEEL TANK CO., Milwaukee, Wis. (See adv. below)

WORCESTER PRESSED STEEL CO. (Oil, etc.), Worcester, Mass. (See adv. index, end of book)

Tanks (Pressure)

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

Aurora Boiler Works (Inc.), Aurora, Ill.

GRAVER, WM. TANK WORKS, East Chicago, Ind. (See adv. index, end of book)

Hammond Iron Works, Warren, Pa.

KEWANEE WATER SUPPLY CO., Kewanee, Ill. (See adv. index, end of book)

KEWANEE BOILER CO., Kewanee, Ill., & 169 E. Lake, Chicago, Ill. (See adv. index, end of book)

KOVEN, L. O. & BRO., 50 Cliff, New York (See adv. index, end of book)

PRESSED STEEL TANK COMPANY

MANUFACTURERS OF

Pressed and Seamless
Drawn Steel Specialties
General Office and Works, MILWAUKEE, WIS.

Send for our Catalogue "B" it tells you all.



STEEL TANKS and PLATE WORK



OIL TANKS

CAR TANKS

GRAIN TANKS

TANKS AND PLATE WORK FOR

Oil Refineries, Gas Plants, Chemical Works, Packing Houses, Railroads, Water Works, Mining Plants, Soap Works, Varnish Works, Cotton Seed Oil Mills, Asphalt Plants, Sugar Refineries, Powder Mills, Creosoting Plants.

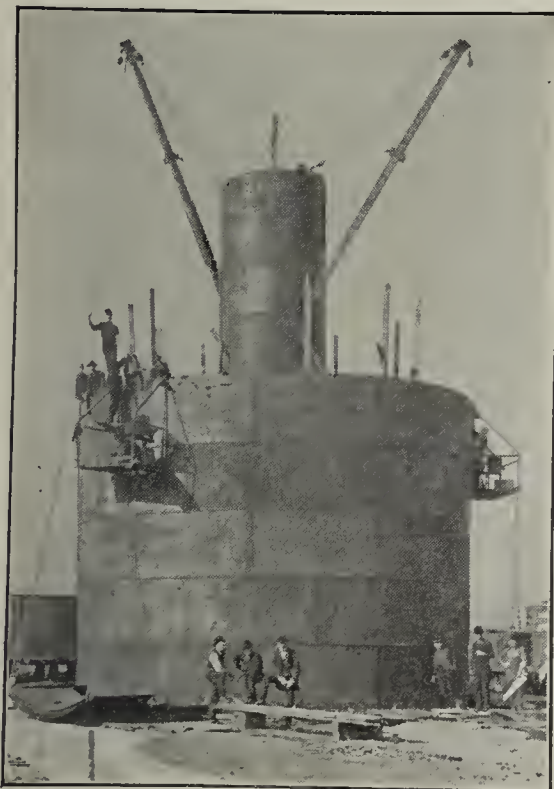
When you are in the market for Steel Tanks or Plate Work of any description, write us. We will give you the benefit of our thirty-five years experience in this line.

ESTABLISHED 1872.

WM. GRAVER TANK WORKS, East Chicago, Ind.

THE PETROLEUM IRON WORKS CO.

WASHINGTON, PA.



ALL CLASSES
OF Steel Plate Construction

TANKS FOR OIL AND WATER

— AIR RECEIVERS —

— OIL REFINING PLANTS —

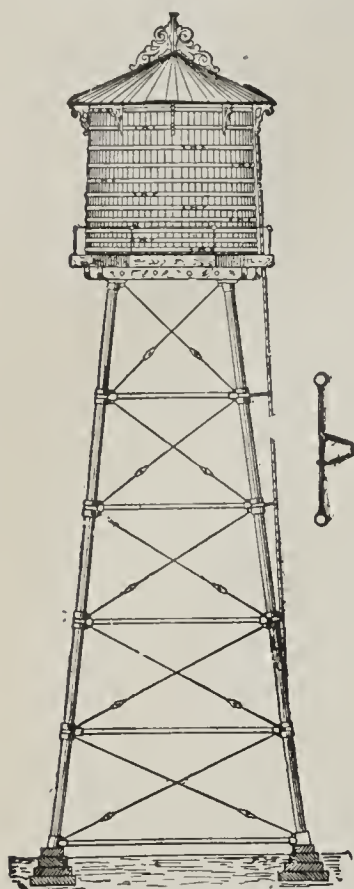
— FEED WATER HEATERS —

BOILERS — — — — — STACKS

BLAST FURNACE CONSTRUCTION

Branch Offices : Pittsburgh, Pa., Houston, Texas

TANKS and TOWERS for Fire Protection



OUTFITS for Independent Systems and also in connection with Automatic Sprinklers.

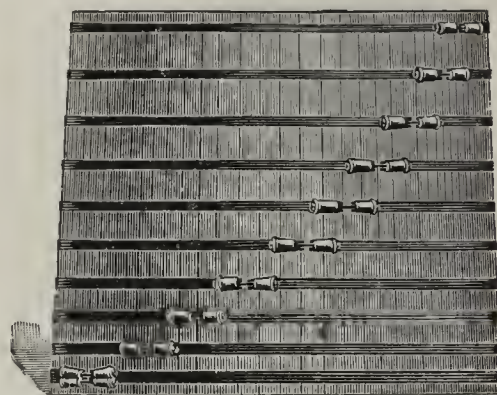
THE ASSOCIATED FACTORY MUTUAL COMPANIES endorse and recommend our work, as do hundreds of customers.

25 YEARS' EXPERIENCE qualifies us to know what good work is and how to build it. And we furnish no other kind.

WE ERECT these Outfits where desired. But any good mechanic can do so from our working drawings.

OUR TOWERS are of such weight and strength that they will withstand a cyclone. We build them of both Wood and Steel.

STUFF CHESTS, STORAGE TANKS, ETC., of lasting Louisiana Red Cypress. ACID TANKS of Yellow Pine or Cypress a Specialty.



Send for Illustrated Catalogue, Testimonials, Plans and Estimates.

W. E. CALDWELL CO., Louisville, Ky.

THE KEWANEE SYSTEM OF WATER SUPPLY

FOR SUPPLYING WATER TO PUBLIC BUILDINGS, ASYLUMS, POOR FARMS, FACTORY BUILDINGS, FARMS, COUNTRY RESIDENCES, ETC.

A KEWANEE PNEUMATIC TANK

buried in the ground or placed in the cellar delivers water to the plumbing fixtures by air pressure. Gives a regular city water supply. No unsightly elevated tank to leak, freeze or blow over. Plenty of fresh, pure water during all seasons. Splendid fire protection.

No Freezing.

No Leaking.

No Repairs.



A Perfect Water Supply.

Absolute Fire Protection.

Practically Indestructible.

Are made in all sizes to supply various requirements. Kewanee Water Supply Systems are *complete*. Not a tank alone, which is not sufficient without power, nor the pumping power alone—which is useless without a storage tank, but we supply the complete plant.

We also furnish complete plants for filtering and aerating water, specialties for air pressure works, and pumping machinery of all kinds. Illustrated catalog No. 24 furnished free on request.

Kewanee Water Supply Co., ^{DRAWER}_{Y.} **Kewanee, Ill.**

NEW YORK OFFICE: Rooms 1300-01, No. 32 Broadway.

NEW YORK CENTRAL IRON WORKS

Co., Geneva, N. Y. (See adv. index, end of book)

PRESSED STEEL TANK CO., Milwaukee,

Wis. (See adv. on preceding page)

SCAIFE, WM. B. & SONS CO., 221 1st av,

Pittsburg, Pa. (See adv. index, end of book)

Smith, Theo. & Sons Co., ft of Essex, Jersey

City, N. J.

Treadwell, M. H. & Co., 90 West, New York

Works, Lebanon, Pa.

WILSON, F. CORTEZ & CO., 239 Lake,

Chicago, Ill. (See adv. index, end of book)

Tanks (Railroad, Water)**CORCORAN, A. J. (Inc.), 11 John, New**

York. Works, Jersey City, N. J. (See adv. in next column)

FAIRBANKS, MORSE & CO., Franklin &

Monroe, Chicago, Ill. (See adv. index & branch offices, end of book)

GRAVER, WM. TANK WORKS, East

Chicago, Ind. (See adv. index, end of book)

Kalamazoo Railway Supply Co., Kalamazoo,

Mich.

KOVEN, L. O. & BRO., 50 Cliff, New York.

(See adv. index, end of book)

Lookout Boiler & Mfg. Co., Chattanooga,

Tenn.

PETROLEUM IRON WORKS CO., Wash-

ington, Pa. (See adv. index & branch offices, end of book)

Pollock, Wm. B. Co., Youngstown, Ohio.

Treadwell, M. H. & Co., 90 West, New York

Works, Lebanon, Pa.

Vicksburg Mfg. Co., Vicksburg, Mich.

Tanks (Refrigerator, Porcelain Lined)

Marletta Hollow Ware & Enameling Co., Mar-

rietta, Ohio.

Tanks (Rendering)

Aurora Boiler Works (Inc.), Aurora, Ill.

GRAVER, WM. TANK WORKS, East

Chicago, Ind. (See adv. index, end of book)

Smith's, Jno. E. Sons Co. (Drop Bottom Steam

for Lard, Tallow, Grease, etc.), Buffalo,

N. Y.

Treadwell, M. H. & Co., 90 West, New York

Works, Lebanon, Pa.

Tanks (Sand Storage)*GRAVER WM. TANK WORKS, East**

Chicago, Ind. (See adv. index, end of book)

KOVEN, L. O. & BRO., 50 Cliff, New York.

(See adv. index, end of book)

Tanks (Seamless Steel)

Janey, Steinmetz & Co. (Cold Drawn), 4th &

Market, Philadelphia, Pa.

KOVEN, L. O. & BRO., 50 Cliff, New York

(See Adv. index, end of book)

PRESSED STEEL TANK CO. (Also

Seamless Cylinders), Milwaukee, Wis. (See

adv. on preceding page)

Tanks (Seamless Steel Fire Extinguisher)*PRESSED STEEL TANK CO., Milwaukee,**

Wis. (See adv. on preceding page)

Tanks (Slurry)**GRAVER, WM. TANK WORKS, East**

Chicago, Ind. (See adv. index, end of book)

United Iron Works Co. (for Cement Plants for

Mixing Shale, etc.), Springfield, Mo.

Tanks (Soap)*CORCORAN, A. J., Inc., 11 John, New**

York. Works, Jersey City, N. J. (See adv. in next column)

KOVEN, L. O. & BRO., 50 Cliff, New York.

(See adv. index, end of book)

REEVES BROS. CO., Alliance, O. (See

adv. index, end of book)

WILSON, F. CORTEZ & CO., 239 Lake,

Chicago, Ill. (See adv. index, end of book)

Tanks (Soda Fountain)

Avery Stamping Co. ("Never Break" Steel),

Lakg & Coe, Cleveland, Ohio

PRESSED STEEL TANK CO., Milwaukee,

Wis. (See adv. on preceding page)

Tanks (Sprinkler)*CORCORAN, A. J., Inc., 11 John, New**

York. (Works, Jersey City, N. J. (See

adv. below)

Tanks (Steel, Glass Enameled)

Detroit Steel Cooperage Co. (also Chip Casks,

Fermenting Tubs, etc.), Detroit, Mich.

Pfaudler Co., Cutler bldg., Rochester, N. Y.

Tanks (Steel, Glass Lined)

Pfaudler Co., Rochester, N. Y.

Tanks (Steel, Hot Water Storage)**AMERICAN RADIATOR CO. (Black &**

Galvanized). General office, 282 Michigan

av., Chicago. (See adv. index & branch

offices, end of book)

GRAVER, WM. TANK WORKS, East Chi-

cago, Ind. (See adv. index, end of book)

KEWANEE BOILER CO., Kewanee, Ill., &

169 E. Lake, Chicago, Ill. (See adv. in-

dex, end of book)

KOVEN, L. O. & BRO., 50 Cliff, New York.

(See adv. index, end of book)

NEW YORK CENTRAL IRON WORKS

Co., Geneva, N. Y. (See adv. index, end of

book)

PETROLEUM IRON WORKS CO., Wash-

ington, Pa. (See adv. index & branch

offices, end of book)

Treadwell, M. H. & Co., 90 West, New York

Works, Lebanon, Pa.

Tanks (Storage, Etc.)**CALDWELL, W. E. CO. (Lasting Louisiana**

Red Cypress). Brook & D. Louisville, Ky.

(See adv. index, end of book)

CORCORAN, A. J., Inc., 11 John, New

York. Works, Jersey City, N. J. (See

adv. below)

KEWANEE BOILER CO., Kewanee, Ill., &

169 E. Lake, Chicago, Ill. (See adv. in-

dex, end of book)

KOVEN, L. O. & BRO., 50 Cliff, New York.

(See adv. index, end of book)

Tanks (Tar, Ammonia Liquor)*GRAVER, WM. TANK WORKS, East Chi-**

cago, Ind. (See adv. index, end of book)

KOVEN, L. O. & BRO., 50 Cliff, New

York. (See adv. index, end of book)

Tanks (Tempering)**KOVEN, L. O. & BRO., 50 Cliff, New York.**

(See adv. index, end of book)

Petty, J. K. & Co. (Lebanon Boiler Works),

Lebanon, Pa.

WILSON, F. CORTEZ & CO., 239 Lake,

Chicago, Ill. (See adv. index, end of book)

Tanks (Water, Mounted on Wheels)**ACME ROAD MACHINERY CO (For**

Steam Rollermen & Others), Frankfort,

N. Y. (See adv. index, end of book)

Aultman & Taylor Machinery Co., Mansfield,

Ohio

Case, J. I. Threshing Machine Co. (Steel),

Huber Mfg. Co., Marion, O. Racine, Wis.

KOVEN, L. O. & BRO., 50 Cliff, New

York. (See adv. index, end of book)

Marion Mfg. Co., Marion, O.

Nichols & Shepard Co. (Wood), Battle Creek,

Mich.

Fallerday Steel Pipe & Tank Co., Waterloo, Ia.

Tanks (Windmill)

Bushnell Pump Co., Bushnell, Ill.

CORCORAN, A. J., Inc., 11 John, New

York. Works, Jersey City, N. J. (See

adv. below)

KEWANEE WATER SUPPLY CO.,

Kewanee, Ill. (See adv. index, end of book)

KOVEN, L. O. & BRO., 50 Cliff, New York.

(See adv. index, end of book)

Tanks (Wood)

Aermotor Co., Campbell av., nr 12th, Chicago,

Ill.

American Mfg. Co., 2121 Louisiana av, New

Orleans, La.

American Stave & Cooperage Co., 205 Chelsea,

Boston, Mass.

Baker Mfg. Co., Evansville, Wis.

Baltimore Cooperage Co., Baltimore, Md.

Becker Tank Mfg. Co. (Inc.), 255 N Henry,

Brooklyn, N. Y.

Burkhardt's, Geo. J. Sons, 2831 N Broad, Phila-

delphia, Pa.

CALDWELL, W. E. CO., Brook & D,

Louisville, Ky. (See adv. index, end of book)

CORCORAN, A. J., Inc., 11 John, New

York. Works, Jersey City, N. J. (See

adv. below)

WOODEN TANKSmade in all sizes and shapes —
of cedar, cypress, white pine,
maple, ash, oak or Georgia pine.To be used for fresh or salt water
(hot or cold), acids, soda or
brine solutions — for electrical
purposes, or for the manufacture
and storage of vinegar, wine or
gas.

Creamery Tanks, Etc., Etc.

**A. J. CORCORAN, Incorporated**

Office, 11 JOHN STREET, NEW YORK

Factory, JERSEY CITY, N. J.

CYPRESS LUMBER CO. (Cypress), SS
Broad, Boston, Mass., & Apalachicola,
Fla. (See adv. below)

Cypress Selling Co., Ltd. (Red Cypress), New
Orleans, La.

Cypress Tank & Mfg. Co., Patterson, La.

Dallas Cooperage Co., 243 S Austin, Dallas, Tex.

Davis, G. M. & Son (Cypress Tanks, Tubs &
Vats), Palatka, Fla.

Dunck Tank Works (Vats), 1012 Sherman,
Milwaukee, Wis.

Excelsior Redwood Co., Channel & 4th, San
Francisco, Cal.

FAIRBANKS, MORSE & CO., Frank-
lin & Monroe, Chicago, Ill. (See adv. In-
dex & branch offices, end of book)

Fleming Tank Co., 3115 Liberty, Pittsburg, Pa.

Flint & Walling Mfg. Co., Kendallville, Ind.

Freeman, S. & Sons Mfg. Co. (Also Tanks,
Steel), Racine, Wis.

Gray's Harbor Commercial Co. (Flr), Cosmopo-
lis, Wash., & 237 Calif., San Francisco, Cal.

Hall, Amos H., Son & Co. (Cedar, etc.), 140
Chestnut, Philadelphia, Pa.

Harmon, S. H. Lumber Co., San Francisco,
Cal.

Hauser, Brenner & Fath Co., McLean av & Bank,
Cincinnati, O.

Hayes Pump & Planter Co., Galva, Ill.

Headen, Frank, 112 Indiana, Chicago, Ill.

Hooper, C. A. Co., 4th & Channel, San Fran-
cisco, Cal.

Huber, Arnold, 233 Central av, Los Angeles,
Cal.

Johnson & Carlson, 256 N Halsted, Chicago

Kalamazoo Tank & Silo Co., Kalamazoo, Mich.

Ketter, Fred, Cooperage Works, 584 4th, Mil-
waukee, Wis.

Korbel, F. & Bros., 723 Bryant, San Francisco,
Cal.

Lewis, H. F. & Co., Ltd. (Cypress), 316 Baronne,
New Orleans, La.

Los Angeles Cooperage Co., Lazard & Santa Fe
tracks, Los Angeles, Cal.

Marselles Mfg. Co., Marselles, Ill.

Michel Cooperage Co., Sandusky, O.

Minnesota Tank Co., 1415 S. E. 8th, Minneapo-
lis, Minn.

Moline Pump Co., Moline, Ill.

National Cooperage Co., cor. Covert & Eldert,
Brooklyn, N. Y.

National Engineering Co., Saginaw, Mich.

Northwestern Wind Engine Co., 110 3d av, Min-
neapolis, Minn.

Omaha Tank & Mfg. Co., Omaha, Neb.

Pacific Mfg. Co. (Redwood), Santa Clara, Cal.

Pacific Tank Co. (Cedar & Pine for Water, Oil,
Mining, Cyanide, etc.), San Francisco, &
Los Angeles, Cal.

Peirce, W. E. & Co., Milford, N. H.

Puffer-Hubbard Mfg. Co., Minneapolis, Minn.

Quitman Cooperage Co., Quitman, Ga.

Reed & Sherwood, Anoka, Mich.

Roberts, T. W., Bradford, Pa.

Redwood Mfg. Co. (Cal Redwood), 8 Call-
fornia, San Francisco, Cal.

Rochester Cooperage Co., 538 Child, Rochester,
N. Y.

Rose, F. M. & Son, Oakland, Cal.

Schlichter, E. F., 1910 Market, Phila, Pa.

Schwarzwalder, J. & Sons, 629 W 51st, N. Y.

Selden Cypress Door Co. (Cypress), Palatka, Fla.

Smith, John M. & Sons, 1429 Spring Garden,
Philadelphia, Pa.

Standard Mfg. Co., Galesburg, Mich.

STEARNS, A. T. LUMBER CO., Nepon-
set, Boston, Mass. (See adv. index, end
of book)

Stecher Cooperage Works, 2907 S 7th, St. Louis,
Stolper, Chas., Cooperage Co., 664 4th, Mil-
waukee, Wis.

Stover Mfg. Co., Freeport, Ill.

Tranor's, O. J. Son, New Iberla, La.

U. S. Wind Engine & Pump Co. ("Halladay"
Standard), Batavia, Ill.

Vorhees & Fisk, Burlington, Wis.

Wandelt, Samuel, 61 N 3d, Brooklyn, N. Y.

Wendnagel & Co., W 22d & S Jefferson, Chi-
cago, Ill.

Woodmanse Mfg. Co., Freeport, Ill.

Woolford, Geo. Wood Tank Mfg. Co. (Cedar &
Cypress), New Land Title bldg., Phila.,
Pa.

Tanks & Cylinders (Cement)

Aurora Roller Works (Inc.), Aurora, Ill.

GRAVER, WM. TANK WORKS, East
Chicago, Ind. (See adv. Index, end of
book)

PETROLEUM IRON WORKS CO.,
Washington, Pa. (See adv. index & branch
offices, end of book)

Tanks & Cylinders (Creosoting)

GRAVER, WM. TANK WORKS, East
Chicago, Ind. (See adv. Index, end of
book)

PETROLEUM IRON WORKS CO.,
Washington, Pa. (See adv. Index & branch
offices, end of book)

Treadwell, M. T. & Co., 90 West, New York.
Works, Lebanon, Pa.

Tanks & Towers (Water)

(See also Water Columns or Stations), Rail-
road; also Stand Pipes.)

American Bridge Co., 42 B'way, New York &
Pittsburg, Pa.

Baker Mfg. Co., Evansville, Wis.

Belmont Iron Works, 22d & Wash'n av, Phila.,
Pa.

Bennett Bros Co., Lowell, Mass.

Bogert-Carlough Co., Paterson, N. J.

Butler Co., Butler, Ind.

CALDWELL, W. E. CO., Brook & D.,
Louisville, Ky. (See adv. index, end of
book)

Chicago Bridge & Iron Works, Throop & W.
105th, Chicago, Ill.

Church, Stephen B., Seymour, Conn.

Clinton Bridge & Iron Works, Clinton, Iowa

Cole, R. D. Mfg. Co., Newnan, Ga.

CORCORAN, A. J. (Inc.), 11 John, New
York. Works, Jersey City, N. J. (See adv.
on preceding page)

Cruse-Kemper Co., Ambler, Pa.

Des Moines Bridge & Iron Co., Des Moines, Ia.

FAIRBANKS, MORSE & CO., Frank-
lin & Monroe, Chicago, Ill. (See adv. In-
dex & branch offices, end of book)

Fleming Tank Co., Pittsburg, Pa.

Flint & Walling Mfg. Co., Kendallville, Ind.

Friede Globe Tower Co., 37 William, N. Y.

Freeman, S. & Sons Mfg. Co., Racine, Wis.

Hammond Iron Works, Warren, Pa.

Hood, R. H., Co., 299 B'way, New York, N. Y.

KOVEN, L. O. & BRO., 50 Cliff, New York.
(See adv. index, end of book)

Lookout Boller & Mfg. Co., Chattanooga, Tenn.

McClintic-Marshall Construction Co. (Towers
only), Pittsburg, Pa., & Rankin Station,
Pa.

McDaniel & Son, Litchfield, Ill.

TANKS AND TOWERS.



WE MANUFACTURE

Oil and Acid Tanks, Oil Refinery Work.

Car Tanks, Heavy Dryer Cylinders.

Rotary Cement Cylinders.

Blast Furnaces.

Annealing Boxes, Standpipes and Water

Towers, Converters, Ladles, Boilers.

Heaters, Girders Steel Buildings.

Buildings, Grain Elevators.

Copper Furnaces, Clinker Coolers, etc.

Self-Supporting Stacks, Galvanizing

and Tinning Pots, Lime Kilns.

Brick Hardening Cylinders.

Penstocks and Riveted Pipe Creosoting

Cylinders, Cyanide Tanks, Heavy and

Light Plate Construction of Every

Description Erected Anywhere.

THE REEVES BROTHERS COMPANY

Alliance, Ohio, U. S. A.

CYPRESS TANKS.

THE CYPRESS LUMBER CO.

BOSTON, MASS.

APALACHICOLA, FLA.

McNeil Boiler Co., Akron, O.
 McNeil, Jas. & Bro. Co., Pittsburg, Pa.
 Marcy, R. G. Mfg. Co., Bluffton, Ind.
 Marseilles Mfg. Co., Marseilles, Ill.
 Mast, Foos & Co., Springfield, Ohio.
 Maud's Windmill & Pump Co., Lansing, Mich.
 Michelmann Steel Construction Co., Quincy, Ill.
MINNEAPOLIS STEEL & MACHIN-
ERY CO., Minneapolis, Minn. (See adv. in-
 dex & branch offices, end of book)
 New England Tank & Tower Co., 112 High,
 Boston, Mass.

Petty, J. K. & Co., Lebanon, Pa.
PETROLEUM IRON WORKS CO.,
 Washington, Pa., & Farmers Bank bldg.,
 Pittsburg, Pa. (See adv. index & branch
 offices, end of book)

Phelps & Bigelow Wind Mill Co., Kalamazoo,
 Mich.

REEVES BROS. CO., Alliance, O. (See
 adv. on preceding page)
 Rlter-Conley Mfg. Co., Pittsburg, Pa., & 111
 Broadway, New York

Rusling Co., 26 Cortlandt, N. Y.
 Russell & Co., Massillon, Ohio

ST. PAUL FOUNDRY CO., Como av
 & Topping, St. Paul, Minn. (See adv. in-
 dex, end of book)

SCAIFE, WM. B. & SONS CO., 221 1st
 av, Pittsburg, Pa. (See adv. index, end of
 book)

Schreiber, L. & Sons Co., Cincinnati, O.

STEARNS, A. T. LUMBER CO., Neponset,
 Boston, Mass. (See adv. index, end of book)

Tippett & Wood, Phillipsburg, N. J.
 Southern Bridge Co., Birmingham, Ala.

United Pump & Power Co. (Siting Tower),
 Old Colony bldg., Chicago, Ill.

U. S. Wind Engine & Pump Co., Batavia, Ill.
 Virginia Bridge & Iron Co., Roanoke, Va., &
 Burlington, N. C.

Vulcan Works, Chester, Pa.
 Warren City Boiler Works, Warren, O.

Wood, R. D. & Co., 400 Chestnut, Phila., Pa.
 Woodmanse Mfg. Co., Freeport, Ill.

Tanks & Seats

(See Plumbers' Woodwork.)

Tanners' Flashes

Kimball, C. J. Co., Bennington, N. H.

*Tape Cutting Machines (Insulating)

CAMERON MACHINE CO., 61 Poplar,
 Brooklyn, N. Y. (See adv. index, end of
 book)

Tape (Electrical Friction)

Boston Belting Co., 256 Devonshire, Boston,
 Mass., & 100 Reade, New York

Continental Rubber Works, Erie, Pa.
 Diamond Rubber Co., Akron, O.

Goodrich, B. F. Co., Akron, O.
 Hartford Rubber Works Co., Hartford, Conn.,
 & 83 Michigan av, Chicago, Ill.

Massachusetts Chemical Co., Walpole, Mass.

Tape (Insulating)

American Elecl. Work ("Century"), Philips-
 dale, R. I.

Boston Woven Hose & Rubber Co. Executive
 Office & Factory, Cambridgeport, Mass.

BRIXEY, W. R. ("Kerite"), 203
 B'way, New York. (See adv. index, end
 of book)

Clifton Mfg. Co., Jamaica Plain, Boston, Mass.
 Continental Rubber Works, Erie, Pa.

Diamond Rubber Co. ("Clipper," "Moose,"
 "Python," "Titan"), Akron, O.

Empire Mfg. Co., Lockport, N. Y.
GENERAL ELECTRIC CO. ("Para-
 "gon" & "Acme"), Schenectady, N. Y., & 44
 Broad, New York. (See adv. index &
 branch offices, end of book)

Goodrich, B. F. Co., Akron, O.
 Hartford Rubber Works Co., Hartford, Conn.

Hope Webbing Co., Providence, R. I.
 India Rubber & Gutta Percha Insulating Co.,
 253 B'way, New York

Johns, H. W. Manville Co., 100 William, New
 York

LEHON CO., W. 43d & Lincoln, Chicago,
 Ill. (See adv. index, end of book)

Knowles, C. S. ("Samson," "Tenax"), Boston,
 Mass.

Massachusetts Chemical Co. ("Norfolk,"
 "Walpole," "Kachouk," "Maschemco"),
 Walpole, Mass.

Mechanical Rubber Co., 91 Chambers, New
 York

Mica Insulator Co. ("Tinolape" Oiled Tape),
 218 Water, New York

Morgan & Wright (Inc.), 226 Jefferson av, De-
 troit, Mich.

National India Rubber Co., Bristol, R. I.
 New York Insulated Wire Co., 114 Liberty,
 New York

OKONITE CO. (Ltd.), 253 B'way, New
 York. (See adv. index, end of book)

Revere Rubber Co. ("V," "Z"), Boston, Mass.
 Standard Paint Co., 100 William, New York

*Tape ("Kerite")

BRIXEY, W. R., 203 B'way, New
 York. (See adv. index, end of book)

Tape (Lead)

Chadwick-Boston Lead Co., Boston, Mass.

*Tape (Manson Protecting)

OKONITE CO. (Ltd.), 253 B'way, New
 York. (See adv. index, end of book)

*Tape (Water-Proof)

BRIXEY, W. R. ("Kerite"), 203
 B'way, New York. (See adv. index, end of
 book)

Massachusetts Chemical Co., Walpole, Mass.
OKONITE CO. (Ltd.), 253 B'way, New
 York. (See adv. index, end of book)

Tapes (Measuring)

Chicago Steel Tape Co. (Steel), 630 E 63d,
 Chicago, Ill.

DIETZGEN, EUGENE CO. (Steel, etc.), 181
 Monroe, Chicago, Ill., & 119 W 23d, New
 York. (See adv. index & branch offices,
 end of book)

EDDY, GEO. M. & CO., 345 Classon
 av, Brooklyn, N. Y. (See adv. below)

GEORGE M. EDDY & CO.

MANUFACTURERS OF MEASURING TAPES

OF ALL KINDS

345 TO 353 CLASSON AVE.,
 BROOKLYN, N. Y.

Gurley, W. & L. E., Troy, N. Y.

Johnston, Robt. (Tape & Reel), Wilkes-Barre,
 Pa.

Keuffel & Esser Co. (Steel, Metallic & Linen),
 127 Fulton, New York

Lufkin Rule Co. (Steel, Linen, etc.), Saginaw,
 Mich.

Post, Frederick Co., 218 Clark, Chicago, Ill.

QUEEN & CO. (Inc.), N W Cor. 8th
 & Arch, Philadelphia, Pa. (See adv. in-
 dex, end of book)

Roe, Justus & Sons (Steel), Patchogue, N. Y.
 Seelig, R. & Son, 170 Madison, Chicago, Ill.

SOLTMANN, E. G.
 (Steel or Linen, also everything for the
 Architect, Engineer & Draughting Room),
 125 E 2d, New York. (See adv. inde, end of
 book)

Starrett, L. S. Co. (Steel), Athol, Mass.

Ulmer, J. C. & Co. (Lucas Chain Tapes), 224
 Champlain, Cleveland, O.

Waterbury Brass Co., Waterbury, Conn., &
 99 John, N. Y.

WEBER, F. & CO., 1125 Chestnut,
 Philadelphia, Pa.; 709 Locust, St. Louis,
 Mo., & 5 N Charles, Baltimore. (See adv.
 index, end of book)

Tapes (Pocket)

Lufkin Rule Co., Saginaw, Mich.

Tapes & Webbing for Dynamos, Etc.

Barton, F. C., 65 Worth, New York
 Hope Webbing Co., Providence, R. I.

*Tappers (Nut)

WELLS BROS. CO. ("Little Giant"),
 Greenfield, Mass. (See adv. index, end of
 book)

Tapping Attachments (Drill Press)

Beaman & Smith Co. (Safety Friction Type),
 Providence, R. I.

Errington, F. A. (Automatic Reverse & Safety
 Friction Type), 39 Cortlandt, New York

Horton, E. & Son Co. (Automatic Reverse),
 Safety Friction Type), Windsor Locks,
 Conn.)

Modern Tool Co. ("Modern," "Star"), Erie,
 Pa.

Whitney Mfg. Co. ("Hollm," Safety Friction
 Type), Hartford, Conn.

Tapping Machines

(See Machines, Tapping; also Machines, Tap-
 ping, Gas & Water Mains.)

*Taps (Adjustable)

Carpenter, J. M. Tap & Die Co. ("French's,"
 etc.), Pawtucket, R. I.

Geometric Tool Co., New Haven, Conn.

LAPORTE MACHINE TOOL CO., Hudson,
 Mass. (See adv. index, end of book)

Taps (Beaman & Smith Holder)

BAY STATE TAP & DIE CO., Mansfield,
 Mass. (See adv. on following page)

Carpenter, J. M., Tap & Die Co., Pawtucket,
 R. I.

MORSE TWIST DRILL & MACHINE CO.,
 New Bedford, Mass. (See adv. index, end
 of book)

Reece, E. F. Co., Greenfield, Mass.

Taps (Bit Brace)

AMERICAN TAP & DIE CO. ("Eagle"
 Brand), Greenfield, Mass. (See adv. index,
 end of book)

BAY STATE TAP & DIE CO., Mansfield,
 Mass. (See adv. on following page)

Besly, Chas. H. & Co., 15 S. Clinton, Chicago,
 Ill.

Card, S. W. Mfg. Co., Mansfield, Mass.

Carpenter, J. M. Tap & Die Co., Pawtucket,
 R. I.

Holroyd & Co., Waterford, N. Y.
 Pratt & Whitney Co., Hartford, Conn.

Reece, E. F., Co., Greenfield, Mass.
 St. Louis Screw Co., St. Louis, Mo.

Standard Tool Co., Central av & P. Ry.,
 Cleveland, O.

WELLS BROS. CO. ("Little Giant"),
 Greenfield, Mass. (See adv. index, end of
 book)

WHITMAN & BARNES MFG. CO., Chi-
 cago, Ill. (See adv. index & branch of-
 fices, end of book)

Wiley & Russell Mfg. Co., Greenfield, Mass.

Taps (Blacksmiths')

AMERICAN TAP & DIE CO. ("Eagle"
 Brand), Greenfield, Mass. (See adv. index,
 end of book)

BAY STATE TAP & DIE CO., Mansfield,
 Mass. (See adv. on following page)

Besly, Chas. H. & Co., 15 S. Clinton, Chicago,
 Ill.

Brubaker, W. L. & Bros., Millersburg, Pa.

Carpenter, J. M. Tap & Die Co. (Taper),
 Pawtucket, R. I.

Champlon Blower & Forge Co., Lancaster, Pa.

Cincinnati Screw Tap Co., 2442 Beekman, Cin-
 cinnati, O.

Hart Mfg. Co. (Oster), Cleveland, O.

Holroyd & Co. (Taper & Plug), Waterford,
 N. Y.

MORSE TWIST DRILL & MACHINE
 Co., New Bedford, Mass. (See adv. index,
 end of book)

Polk, A. J. & Son (Taper, etc.), Millersburg,
 Reece, E. F., Co., Greenfield, Mass.

Superior Tap Co., Springfield, Vt.

WELLS BROS. CO. ("Little Giant"),
 Greenfield, Mass. (See adv. index, end of
 book)

WHITMAN & BARNES MFG. CO.,
 (Taper, etc.), Chicago, Ill. (See adv. in-
 dex & branch offices, end of book)

Wiley & Russell Mfg. Co., Greenfield, Mass.

Winter Bros. Co., Wrentham, Mass.

Taps (Boiler)

(See Taps, Patch Bolt.)

Taps (Champagne)

Landers, Frary & Clark (Inc.), New Britain, Conn.
Morgan Silver Plate Co., Winsted, Conn.

Taps (Collapsible)

Dalton-Ingersoll Co., 175 High, Boston, Mass.
Geometric Tool Co., New Haven (Westville), Conn.
Hendricks Mfg. Co. ("Victor" Pipe), Waynesboro, Pa.
Murchey Machine & Tool Co., Detroit, Mich.
Smith, Chas. A., Germantown, Phila., Pa.
Yost, G. M. Co., Waynesboro, Pa.

Taps (Combined Drill & Reamer)

Holroyd & Co., Waterford, N. Y.
Mueller, H. Mfg. Co., Decatur, Ill.
Polk, A. J. & Son, Millersburg, Pa.
Reece, E. F. Co., Greenfield, Mass.

Taps (Die)

BAY STATE TAP & DIE CO., Mansfield, Mass. (See adv. index, end of book)
Card, S. W., Mfg. Co., Mansfield, Mass.
Carpenter, J. M. Tap & Die Co., Pawtucket, R. I.
Cincinnati Screw & Tap Co., 2442 Beekman, Cincinnati, O.
Morse Twist Drill & Machine Co., New Bedford, Mass.
Pratt & Whitney Co., Hartford, Conn.
Reece, E. F. Co., Greenfield, Mass.
St. Louis Screw Co., St. Louis, Mo.
WHITMAN & BARNES MFG. CO., Chicago, Ill. (See adv. index & branch offices, end of book)

***Taps (Gas Fixture)**

AMERICAN TAP & DIE CO., Greenfield, Mass. (See adv. index, end of book)

Taps (Hand)

Holroyd & Co. (Right & Left), Waterford, N. Y.

Taps (Hob)

AMERICAN TAP & DIE CO. ("Eagle" Brand, "Adamantine"), Greenfield, Mass. (See adv. index, end of book)
BAY STATE TAP & DIE CO., Mansfield, Mass. (See adv. index, end of book)
Besly, Chas. H. & Co., 15 S. Clinton, Chicago, Ill.
Card, S. W. Mfg. Co., Mansfield, Mass.
Holroyd & Co., Waterford, N. Y.
MORSE TWIST DRILL & MACHINE CO. (Hob or Master; also Sellers; also Short Plug), New Bedford, Mass. (See adv. index, end of book)
Polk, A. J. & Son (Sellers), Millersburg, Pa.
Standard Tool Co., Central av & P. Ry., Cleveland, O.
Superior Tap Co., Springfield, Vt.
Reece, E. F. Co., Greenfield, Mass.
WELLS BROS. CO. ("Little Giant"), Greenfield, Mass. (See adv. index, end of book)
Wiley & Russell Mfg. Co. ("Lightning"), Greenfield, Mass.
Winter Bros. Co., Wrentham, Mass.

***Taps (Horse Shoe)**

AMERICAN TAP & DIE CO. ("Eagle" Brand), Greenfield, Mass. (See adv. index, end of book)

***Taps (Lead Diaphragm)**

SCHAEFFER & BUDENBERG MFG. CO., Foxboro, Mass. (See adv. index & branch offices, end of book)

Taps (Machine or Nut)

American Iron & Steel Co., Lebanon, Pa.
American Screw Co., Providence, R. I.
AMERICAN TAP & DIE CO. ("Eagle" Brand, "Adamantine," "Temper"), Greenfield, Mass. (See adv. index, end of book)
BAY STATE TAP & DIE CO., Mansfield, Mass. (See adv. index, end of book)
Besly, Chas. H. & Co., 15 S. Clinton, Chicago, Ill.
Brown, H. B. & Co. (Nut Threading), East Hampton, Mass.
Brubaker, W. L. & Bros., Millersburg, Pa.
Butterfield & Co. ("Derby"), Derby Line, Vt.
Card, S. W. Mfg. Co., Mansfield, Mass.
Carpenter, J. M. Tap & Die Co., Pawtucket, R. I.
Cincinnati Screw & Tap Co., 2442 Beekman, Cincinnati, O.
Cleveland Twist Drill Co., Cleveland, O.
Corbin Screw Corporation, New Britain, Conn.
Haskell, W. H. Mfg. Co., Pawtucket, R. I.
Holroyd & Co., Waterford, N. Y.
Hoopes & Townsend Co., 1330 Buttonwood, Philadelphia, Pa.

King, J. M. & Co., Waterford, N. Y.
MORSE TWIST DRILL & MACHINE CO., New Bedford, Mass. (See adv. index, end of book)

Polk, A. J. & Son, Millersburg, Pa.
Pratt & Whitney Co., Hartford, Conn.
Reece, E. F. Co., Greenfield, Mass.
Reynolds & Co., 321 East, New Haven, Conn.
St. Louis Screw Co., St. Louis, Mo.
Standard Tool Co., Central av & P. Ry., Cleveland, O.

Superior Tap Co., Springfield, Vt.
WELLS BROS. CO. ("Little Giant"), Greenfield, Mass. (See adv. index, end of book)

WHITMAN & BARNES MFG. CO., Chicago, Ill. (See adv. index & branch offices, end of book)

Wiley & Russell Mfg. Co. ("Lightning"), Greenfield, Mass.
Winter Bros. Co., Wrentham, Mass.

Taps (Machine Screw)

American Screw Co., Providence, R. I.
AMERICAN TAP & DIE CO. ("Eagle" Brand, "Adamantine," "Temper"), Greenfield, Mass. (See adv. index, end of book)

BAY STATE TAP & DIE CO., Mansfield, Mass. (See adv. index, end of book)
Besly, Chas. H. & Co., 15 S. Clinton, Chicago, Ill.
Brubaker, W. L. & Bros., Millersburg, Pa.
Butterfield & Co., Derby Line, Vt.
Card, S. W. Mfg. Co., Mansfield, Mass.
Carpenter, J. M. Tap & Die Co., Pawtucket, R. I.

Cincinnati Screw & Tap Co., 2442 Beekman, Cincinnati, O.
Corbin Screw Corporation, New Britain, Conn.
Holroyd & Co., Waterford, N. Y.

King, J. M. & Co., Waterford, N. Y.
MORSE TWIST DRILL & MACHINE CO., New Bedford, Mass. (See adv. index, end of book)

Mount Carmel Bolt Co., Mt. Carmel, Conn.
Polk, A. J. & Son, Millersburg, Pa.

Pratt & Whitney Co., Hartford, Conn.
Reece, E. F. Co., Greenfield, Mass.
Reed & Prince Mfg. Co., Worcester, Mass.

Reynolds & Co., New Haven, Conn.
St. Louis Screw Co., St. Louis, Mo.
Standard Tool Co., Central av. & P. Ry., Cleveland, O.

Superior Tap Co., Springfield, Vt.
WELLS BROS. CO. ("Little Giant"), Greenfield, Mass. (See adv. index, end of book)

Western Tool Co., Lansing, Mich.
WHITMAN & BARNES MFG. CO., Chicago, Ill. (See adv. index & branch offices, end of book)
Wiley & Russell Mfg. Co. ("Lightning"), Greenfield, Mass.
Winter Bros. Co. ("Thistle"), Wrentham, Mass.

Taps (Machinists' Hand)

AMERICAN TAP & DIE CO. ("Eagle" Brand), Greenfield, Mass. (See adv. index, end of book)

BAY STATE TAP & DIE CO., Mansfield, Mass. (See adv. index, end of book)
Brubaker, W. L. & Bros., Millersburg, Pa.

Butterfield & Co., Derby Line, Vt.
Card, S. W. Mfg. Co., Mansfield, Mass.
Carpenter, J. M. Tap & Die Co., Pawtucket, R. I.

Cincinnati Screw & Tap Co., 2442 Beekman, Cincinnati, O.
Cleveland Twist Drill Co., Cleveland, O.

Corbin Screw Corporation, New Britain, Conn.
Hart Mfg. Co. ("Duplex," "Oster"), Cleveland, O.

Haskell, Wm. H. Mfg. Co., Pawtucket, R. I.
Holroyd & Co., Waterford, N. Y.
Hoopes & Townsend, 1330 Buttonwood, Philadelphia, Pa.

King, J. M. & Co., Waterford, N. Y.
MORSE TWIST DRILL & MACHINE CO., New Bedford, Mass. (See adv. index, end of book)

Polk, A. J. & Son, Millersburg, Pa.
Pratt & Whitney Co., Hartford, Conn.
Reece, E. F. Co., Greenfield, Mass.

Reynolds & Co., New Haven, Conn.
St. Louis Screw Co., St. Louis, Mo.
Standard Tool Co., Central av & P. Ry., Cleveland, O.

Superior Tap Co., Springfield, Vt.
WELLS BROS. CO. ("Little Giant"), Greenfield, Mass. (See adv. index, end of book)

Western Tool Co., Lansing, Mich. (See adv. index, end of book)
WHITMAN & BARNES MFG. CO., Chicago, Ill. (See adv. index & branch offices, end of book)

Wiley & Russell Mfg. Co. ("Lightning"), Greenfield, Mass.
Winter Bros. Co. ("Thistle"), Wrentham, Mass.

***Taps (Mud Wash-Out)**

AMERICAN TAP & DIE CO. ("Eagle" Brand), Greenfield, Mass. (See adv. index, end of book)

Taps (Patch Bolt)

AMERICAN TAP & DIE CO. ("Eagle" Brand), Greenfield, Mass. (See adv. index, end of book)

BAY STATE TAP & DIE CO., Mansfield, Mass. (See adv. index, end of book)
Besly, Chas. H. & Co., 15 S. Clinton, Chicago, Ill.

Brubaker, W. L. & Bros., Millersburg, Pa.
Card, S. W. Mfg. Co., Mansfield, Mass.

Carpenter, J. M. Tap & Die Co., Pawtucket, R. I.
Chicago Screw Co., 2 N Canal, Chicago, Ill.

Cincinnati Screw & Tap Co., 2442 Beekman, Cincinnati, O.
Cleveland Twist Drill Co., Cleveland, O.

Holroyd & Co., Waterford, N. Y.
MORSE TWIST DRILL & MACHINE CO., New Bedford, Mass. (See adv. index, end of book)

Pawtucket Mfg. Co., Pawtucket, R. I.
Polk, A. J. & Son, Millersburg, Pa.

Pratt & Whitney Co., Hartford, Conn.
Reece, E. F. Co., Greenfield, Mass.
St. Louis Screw Co., 600 E. Clarence av, St. Louis, Mo.

Standard Tool Co., Cleveland, O.
Superior Tap Co., Springfield, Vt.



QUALITY AND PRICE GUARANTEED

Bay State Tap & Die Co., Mansfield, Mass.

Knurled
Little Giant.
Handles



Mottled
Little Giant.
Finish

TAPS - DIES - SCREW PLATES Bolt Cutters and Nut Tappers

OUR LINE COMPRISES A VARIED ASSORTMENT OF SCREW CUTTING TOOLS.

THE NAME "LITTLE GIANT" IS A GUARANTEE OF QUALITY.

ALL "LITTLE GIANT" SCREW PLATES ARE FURNISHED WITH THE RENOWNED "LITTLE GIANT" ADJUSTABLE DIE. ALSO ADJUSTABLE TAP WRENCHES OF SUFFICIENT CAPACITY TO HOLD ALL TAPS IN ASSORTMENT. IT IS NECESSARY TO HAVE A TAP WRENCH, SO SEE THAT YOUR SCREW PLATE CONTAINS ONE OR MORE, AS NEEDED.

SEND FOR OUR CATALOG DESCRIBING OUR COMPLETE LINE.

MANUFACTURED BY

WELLS BROS. COMPANY
GREENFIELD, MASS., U. S. A.

NEW YORK STORE, 56 Reade St. LONDON STORE, 149 Queen Victoria St.



THREADING TOOLS

"EAGLE BRAND"

"ADAMANTINE"

SCREW PLATES

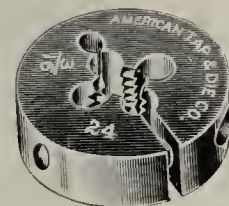
MACHINE SCREW, HAND and NUT TAPS and DIES



ATTENTION PAID TO MANUFACTURERS WANTS

—SEND FOR CATALOGUE AND DISCOUNTS—

AMERICAN TAP & DIE CO., GREENFIELD, MASS.
U. S. A.



Hendricks'

Commercial Register..



Is consulted by more than 100,000 Buyers annually.

If you want to reach a Buyer advertise in this Book.

No Book more frequently consulted regarding the purchasing of materials, machinery or supplies.

Used by the Purchasing Department of every large concern in the United States.

WELLS BROS. CO. ("Little Giant"), Greenfield, Mass. (See adv. index, end of book)
WHITMAN & BARNES MFG. CO., Chicago, Ill. (See adv. index & branch offices, end of book)
 Wiley & Russell Mfg. Co., Greenfield, Mass.
 Winter Bros. Co., Wrentham, Mass.

Taps (Pulley)

AMERICAN TAP & DIE CO. ("Eagle Brand"), Greenfield, Mass. (See adv. index, end of book)
BAY STATE TAP & DIE CO., Mansfield, Mass. (See adv. on preceding page)
 Besly, Chas. H. & Co., 15 S Clinton, Chicago, Ill.
 Brubaker, W. L. & Bros., Millersburg, Pa.
 Butterfield & Co., Derby Line, Vt.
 Card, S. W. Mfg. Co., Mansfield, Mass.
 Carpenter, J. M. Tap & Die Co., Pawtucket, R. I.
 Cincinnati Screw & Tap Co., 2442 Beekman, Cincinnati, O.
 Cleveland Twist Drill Co., Cleveland, O.
 Corbin Screw Corporation, New Britain, Conn.
 Holroyd & Co., Waterford, N. Y.
MORSE TWIST DRILL & MACHINE CO., New Bedford, Mass. (See adv. index, end of book)
 Polk, A. J. & Son, Millersburg, Pa.
 Pratt & Whitney Co., Hartford, Conn.
 Reece, E. F. Co., Greenfield, Mass.
 St. Louis Screw Co., 600 E Clarence av., St. Louis, Mo.
 Standard Tool Co., Central av. & P. Ry., Cleveland, O.
 Superior Tap Co., Springfield, Vt.
WELLS BROS. CO. ("Little Giant"), Greenfield, Mass. (See adv. index, end of book)
WHITMAN & BARNES MFG. CO., Chicago, Ill. (See adv. index & branch offices, end of book)
 Wiley & Russell Mfg. Co. ("Lightning"), Greenfield, Mass.
 Winter Bros. Co., Wrentham, Mass.

Taps (Stay Bolt)

AMERICAN TAP & DIE CO. ("Eagle Brand"), Greenfield, Mass. (See adv. index, end of book)
BAY STATE TAP & DIE CO., Mansfield, Mass. (See adv. on preceding page)
 Besly, Chas. H. & Co., 15 S Clinton, Chicago, Ill.
 Brubaker, W. L. & Bros., Millersburg, Pa.
 Butterfield & Co., Derby Line, Vt.
 Card, S. W. Mfg. Co., Mansfield, Mass.
 Carpenter, J. M. Tap & Die Co., Pawtucket, R. I.
 Cincinnati Screw & Tap Co., 2442 Beekman, Cincinnati, O.
 Cleveland Twist Drill Co., Cleveland, O.
 Holroyd & Co., Waterford, N. Y.
MORSE TWIST DRILL & MACHINE CO., New Bedford, Mass. (See adv. index, end of book)
 Oswego Tool Co., Oswego, N. Y.
 Polk, A. J. & Son, Millersburg, Pa.
 Pratt & Whitney Co., Hartford, Conn.
 Reece, E. F. Co., Greenfield, Mass.
 St. Louis Screw Co., St. Louis, Mo.
 Superior Tap Co., Springfield, Vt.
WELLS BROS. CO. ("Little Giant"), Greenfield, Mass. (See adv. index, end of book)
WHITMAN & BARNES MFG. CO., Chicago, Ill. (See adv. index & branch offices, end of book)
 Wiley & Russell Mfg. Co. ("Lightning"), Greenfield, Mass.
 Winter Bros. Co., Wrentham, Mass.

Taps (Stove Bolt)

AMERICAN TAP & DIE CO. ("Eagle Brand"), Greenfield, Mass. (See adv. index, end of book)
BAY STATE TAP & DIE CO., Mansfield, Mass. (See adv. on preceding page)
 Card, S. W. Mfg. Co., Mansfield, Mass.
 Carpenter, J. M. Tap & Die Co., Pawtucket, R. I.
 Holroyd & Co., Waterford, N. Y.
MORSE TWIST DRILL & MACHINE CO., New Bedford, Mass. (See adv. index, end of book)
 Mount Carmel Bolt Co., Mt. Carmel, Conn.
 Polk, A. J. & Son, Millersburg, Pa.
 Reece, E. F. Co., Greenfield, Mass.
 St. Louis Screw Co., 600 E Clarence av., St. Louis, Mo.
WELLS BROS. CO. ("Little Giant"), Greenfield, Mass. (See adv. index, end of book)

WHITMAN & BARNES MFG. CO., Chicago, Ill. (See adv. index & branch offices, end of book)
 Winter Bros. Co., Wrentham, Mass.

Taps (Taper)

AMERICAN TAP & DIE CO. ("Eagle Brand"), Greenfield, Mass. (See adv. index, end of book)
BAY STATE TAP & DIE CO., Mansfield, Mass. (See adv. on preceding page)
 Card, S. W. Mfg. Co., Mansfield, Mass.
 Carpenter, J. M. Tap & Die Co. (Bicycle, etc.), Pawtucket, R. I.
 Holroyd & Co. (Bicycle, etc.), Waterford, N. Y.
 King, J. M. & Co., Waterford, N. Y.
 Polk, A. J. & Son, Millersburg, Pa.
 Reece, E. F. Co., Greenfield, Mass.
WELLS BROS. CO. ("Little Giant"), Greenfield, Mass. (See adv. index, end of book)
 Winter Bros. Co., Wrentham, Mass.

Taps (Tapper)

AMERICAN TAP & DIE CO. ("Eagle Brand" "Adamantine" "Temper"), Greenfield, Mass. (See adv. index, end of book)
BAY STATE TAP & DIE CO., Mansfield, Mass. (See adv. on preceding page)
 Butterfield & Co. (Bicycle, etc.), Derby Lane, Conn.
 Card, S. W. Mfg. Co., Mansfield, Mass.
 Carpenter, J. M. Tap & Die Co., Pawtucket, R. I.
 Holroyd & Co., Waterford, N. Y.
 Morse Twist Drill & Machine Co., New Bedford, Mass.
 Polk, A. J. & Son, Millersburg, Pa.
 Reece, E. F. Co., Greenfield, Mass.
 Superior Tap Co., Springfield, Vt.
WELLS BROS. CO. ("Little Giant"), Greenfield, Mass. (See adv. index, end of book)
WHITMAN & BARNES MFG. CO., Chicago, Ill. (See adv. index & branch offices, end of book)
 Wiley & Russell Mfg. Co. ("Lightning"), Greenfield, Mass.
 Winter Bros. Co., Wrentham, Mass.

Taps & Drills (Combined Pipe)

BAY STATE TAP & DIE CO., Mansfield, Mass. (See adv. on preceding page)
MORSE TWIST DRILL & MACHINE CO., New Bedford, Mass. (See adv. index, end of book)
 Reece, E. F. Co., Greenfield, Mass.

Taps & Drills (Pipe)

Besly, Chas. H. & Co., 15 S. Clinton, Chicago
 Brubaker, W. L. & Bros., Millersburg, Pa.
 Carpenter, J. M. Tap & Die Co. (Pipe Taps Only), Pawtucket, R. I.
 Cincinnati Screw & Tap Co., 2442 Beekman, Cincinnati, O.
 Cleveland Twist Drill Co., Cleveland, O.
 Holroyd & Co., Waterford, N. Y.
MORSE TWIST DRILL & MACHINE CO., New Bedford, Mass. (See adv. index, end of book)
 Pratt & Whitney, Hartford, Conn.
 Reece, E. F. Co., Greenfield, Mass.
 St. Louis Screw Co., 600 E Clarence av., St. Louis, Mo.
 Standard Tool Co., Central & P. Ry., Cleveland, O.
WHITMAN & BARNES MFG. CO., Chicago, Ill. (See adv. index & branch offices, end of book)
 Wiley & Russell Mfg. Co. ("Lightning"), Greenfield, Mass.

Taps & Reamers (Pipe)

American Die & Tool Co., Reading, Pa.
AMERICAN TAP & DIE CO. ("Eagle Brand"), Greenfield, Mass. (See adv. index, end of book)
ASHCROFT MFG. CO., 85, 87, 89 Liberty, New York, Works, Bridgeport, Conn. (See adv. index, end of book)
BAY STATE TAP & DIE CO., Mansfield, Mass. (See adv. on preceding page)
 Besly, Chas. H. & Co., 15 S. Clinton, Chicago
 Billings & Spencer Co. (Taps Only), Hartford, Conn.
 Brubaker, W. L. & Bros., Millersburg, Pa.
 Rutterfield & Co. ("Derby"), Derby Line, Vt.
 Card, S. W. Mfg. Co., Mansfield, Mass.
 Carpenter, J. M. Tap & Die Co., Pawtucket, R. I.

Cincinnati Screw & Tap Co., 2442 Beekman, Cincinnati, O.
 Cleveland Twist Drill Co., Cleveland, O.
 Grabler Mfg. Co., Cleveland, O.
 Hart Mfg. Co. ("Duplex"), Cleveland, O.
 Hendricks Mfg. Co. (Collapsing Pipe Taps), Waynesboro, Pa.
 Holroyd & Co., Waterford, N. Y.
 King, J. M. & Co., Waterford, N. Y.
 Lord, L. L. Co., Meadville, Pa.
 Lovejoy Tool Works, 90 Ohio, Chicago, Ill.
MORSE TWIST DRILL & MACHINE CO. (Also Straight & Whitworth Pipe Taps), New Bedford, Mass. (See adv. index, end of book)
 Mueller, H. Mfg. Co. (Ratchet Handle Pipe Reamers), Decatur, Ill.
 Polk, A. J. & Son, Millersburg, Pa.
 Pratt & Whitney Co., Hartford, Conn.
 Putnam Machine Co., Fitchburg, Mass.
 Reece, E. F. Co., Greenfield, Mass.
 Saunders', D. Sons, Yonkers, N. Y.
 St. Louis Screw Co., 600 E Clarence av., St. Louis, Mo.
 Standard Tool Co., Central av. & P. Ry., Cleveland, O.
 Superior Tap Co. (Taps), Springfield, Vt.
 Walworth Mfg. Co., 132 Federal, Boston, Mass.
WELLS BROS., Greenfield, Mass. (See adv. index, end of book)
WHITMAN & BARNES MFG. CO., Chicago, Ill. (See adv. index & branch offices, end of book)
 Wiley & Russell Mfg. Co. ("Lightning"), Greenfield, Mass.
 Winter Bros. Co., Wrentham, Mass.

Tar Mfrs.

(See Coal Tar Products.)

Tar (Pine)

Martin, Wm. A. & Co., Wilmington, N. C.
 Shotter, S. P. Co., Savannah, Ga.
 Willcox-Ives Oil Co., Savannah, Ga.

Tarpaulins, Wagon Covers, Etc.

Lane, J. H. & Co., 110 Worth, New York
 Sullivan, Jno. & Son, 356 Hudson, New York

Technical Institutions

(See Engineering Schools and Colleges.)

Tedders (Hay)

Ames Plow Co., Quincy Hall, Boston, Mass.
 Belcher & Taylor Agricultural Tool Co., Chicopee Falls, Mass.
 Hocking Valley Mfg. Co., Lancaster, O.
 Howell, R. R. & Co., Minneapolis, Minn.
 International Harvester Co. of America (Steel Frame, etc.), Osborne Plant, Auburn, N. Y.
 Johnston Harvester Co., Batavia, N. Y.
 Messinger Mfg. Co., Tatamy, Pa.
 Ohio Rake Co., Dayton, O.
 Richardson Mfg. Co., Worcester, Mass.
 Silberzahn Mfg. Co., West Bend, Wis.
 Sterling Mfg. Co., Sterling, Ill.
 Stoddard Mfg. Co., Dayton, O.
 Thomas Mfg. Co., Springfield, O.
 Wood, Walter A. Mowing & Reaping Machine Co., Hoosick Falls, N. Y.

Tees (Pipe)

LUNKENHEIMER CO. (Brass), General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

Teeth (Cultivator)

Allen, S. L. & Co., 1017 Market, Phila., Pa.
 Bateman Mfg. Co., Grenloch, N. J.
 Cambria Steel Co. (Gautier Dept.), Johnstown, Pa., & Arcade bldg, Phila., Pa.
 Farquhar, A. B. Co. (Ltd.), York, Pa.
 Harrow Spring Co. (Spring), Kalamazoo, Mich.
 Hench & Dromgold Co., York, Pa.
 Parlin & Orendorff Co., Canton, Ill.

Teeth for Crusher Rolls

Keystone Drop Forge Works, Chester, Pa.
 Scranton Forging Co. (For Coal or Salt), Scranton, Pa.

Teeth (Harrow)

(See Harrow Teeth.)

Teeth (Hay Loader)Harrow Spring Co., Kalamazoo, Mich.
Morgan Spring Co., Worcester, Mass.**Teeth (Hay Rake)**

(See Rake & Tedder Teeth.)

Teeth (Two-Part)

Taylor Iron & Steel Co. ("Panama"), High Bridge, N. J.

Teeth (Weeder)Babcock Mfg. Co., Leonardsville, N. Y.
Harrow Spring Co., Kalamazoo, Mich.**Telegraph Apparatus**Bunnell, J. H. & Co., 20 Park pl, N. Y.
Wotton Electric & Mfg. Co., 52 Greenwood av, Atlanta, Ga.**Telegraph Poles**(See Poles, Iron & Steel, Flag & Street.)
(See also Tles, Poles & Posts.)**Telegraph Systems (Wireless)**American Deforest Wireless Telegraphic Co., 42 B'way, New York
Clark Wireless Telegraph Co. ("Clark"), Detroit, Mich.**Telephone Booths**

(See Telephone Cabinet Work.)

Telephone Boxes

(See Telephone Cabinet Work.)

Telephone Cabinet Work

American Hardwood Mfg. Co. (Boxes, etc.), Grottoes, Va.
Ayers, J. W. Co. (Boxes, etc.), 792 W Madison, Chicago, Ill.
Bauerle & Stark Co. (Boxes, etc.), 224 W Ohio, Chicago, Ill.
Brownell, Chas. H. (Booths, etc.), Peru, Ind.
Findelsen & Kröpf Mfg. Co., 21st pl & Rockwell, Chicago, Ill.
Hastings Woodworking Co. (Booths, etc.), Hastings, Neb.
Household Sewing Machine Co. (Boxes, Booths, Back Boards, etc.), Providence, R. I.
Huey, M. S. Co. (Boxes, etc.), Indianapolis, Ind.
Jordan, Edw. B. J. (Boxes, etc.), 129 Degraw, Brooklyn, N. Y.
Nelson, Wm. B. & Co. (Cases, etc.), Mattapoisett, Mass.
Noblett, E. J. Co. (Boxes, etc.), Peoria & 121st, Chicago, Ill.
Seaman, W. S. & Co. (Booths & Supplies), Milwaukee, Wis.
Sewing Machine Cabinet Co. (On Order), Bridgeport, Conn.
Thies, Wm. & Son (Boxes, etc.), Huntingburg, Ind.
Tollner's, Chas. Sons Co. (Cases, etc.), Pulasaki, N. Y.
Union Hardware Co. (Boxes, etc.), Torrington, Conn.
Wabash Cabinet Co. (Boxes, etc.), Wabash, Ind.
Western Electric Co. (Booths, etc.), 259 S Clinton, Chicago, Ill., & 57 Bethune, N. Y.
Wilhelm Telephone Co. (Boxes, etc.), Buffalo, N. Y.
Yesbera Mfg. Co. (Booths, etc.), Toledo, O.

Telephone Cushions (Pneumatic)

Faultless Rubber Co. ("Faultless"), Akron, O.

Telephone Holders

(See Brackets, Desk Telephone.)

Telephone Locks

Business Utilities Co. ("Phone Locks"), 54 Warren, New York, N. Y.

Telephone Magnet Cores

Federal Mfg. Co., American Trust bldg, Cleveland, O.

Telephone Mouthpieces

American Hard Rubber Co., 9 Mercer, N. Y.
Dickinson Mfg. Co., Springfield, Mass.
Electrose Mfg. Co. (Transmitters, etc.), 127 N 10th, Brooklyn, N. Y.
Rauscher, John, 98 W 3d, St. Paul, Minn.
Thomas, R. & Sons Co., East Liverpool, O.
Vulcanized Rubber Co., 568 B'way, N. Y.

Telephone Parts

Buescher Band Instrument Co., Elkhart, Ind.
Sumter Telephone Mfg. Co., Sumter, S. C.
Tucker, Frank S. & Co., 1 Hartford, Boston, Mass.
WORCESTER PRESSED STEEL CO.
Worcester, Mass. (See adv. index, end of book)

Telephone Pins

Gurthle Tuck Mfg. Co., Homer City, Pa.

Telephone Pole Changer

Current Electric Co. ("Standard"), Butler bldg, Chicago, Ill.
Holtzer-Cabot Electric Co. (Rotary), Brookline, Mass.
Sandwich Pole Changer Co. ("Illinois" Sandwich), Sandwich, Ill.
Warner Electric Co. (For Ringing Telephones), Muncie, Ind.

Telephone Poles(See Poles, Iron & Steel, Flag & Street.)
(See also Ties, Poles & Posts.)**Telephone Protectors**

American Electric Fuse Co. ("American"), 116 Nassau, New York
Central Telephone & Electric Co., 2135 Lucas av, St. Louis, Mo.
Cook, F. B. ("Cook"), 238 W Lake, Chicago, Ill.
D & W FUSE CO., Providence, R. I.
(See adv. index, end of book.)
Harvard Electric Co., 60 W Van Buren, Chicago, Ill.
Keystone Electric Telephone Co., 822 5th av, Pittsburgh, Pa.
Sumter Telephone Mfg. Co., Sumter, S. C.

Telephone Receivers & Shells

American Hard Rubber Co., 9 Mercer, N. Y.
Dickinson Mfg. Co., Springfield, Mass.
Electrose Mfg. Co. (Cases, Handles, etc.), 127 N 10th, Brooklyn, N. Y.
Murdock, W. J. & Co., Chelsea, Mass.
Spinney-Wise Co., Lynn, Mass.
Sumter Telephone Mfg. Co., Sumter, S. C.
Vulcanized Rubber Co., 568 B'way, N. Y.
Williams Telephone & Supply Co., Cleveland, O.

Telephone Relay Shells

Cassady-Fairbank Mfg. Co., 6106 La Salle, Chicago, Ill.

Telephone Ringing ApparatusRoth Bros. & Co., 27 S Clinton, Chicago, Ill.
Warner Electric Co., Muncie, Ind.**Telephone Transmitters**

Andrae, Julius & Sons Co., 225 W Water, Milwaukee, Wis.
Connecticut Telephone & Electric Co., Meriden, Conn.
Gail-Webb Mfg. Co. ("Gail-Duplex"), Buffalo, N. Y.
Kellogg Switchboard & Supply Co., 231 S Green, Chicago
Moore's Telephone System, Caro, Mich.
Sumter Telephone Mfg. Co., Sumter, S. C.
Williams Telephone & Supply Co., Cleveland, O.

Telephone Woodwork

(See Telephone Cabinet Work; also Woodwork, Electrical.)

Telephones (Interior)

Acme Electric & Telephone Co., 71 W. Jackson boul, Chicago, Ill.
Allen-Hussey Co., 66 W Jackson boul, Chicago, Ill.
Altman & Co., 69 Dearborn, Chicago
Amer. Watchman's Time Detector Co., 234 B'way, N. Y.
Century Telephone Construction Co., Buffalo, N. Y.
Chicago Electric Mfg. Co. (Automatic Intercommunicating), 128 Clark, Chicago, Ill.
Clark Automatic Telephone Switchboard Co. (Automatic), Providence, R. I.
Connecticut Telephone & Electric Co., Meriden, Conn.
Ericsson Telephone Co., 108 Duane, N. Y.
Garl Electric Co., Akron, O.
Kelley Electric Co., 409 Elm, Cincinnati, O.
Keystone Electric Telephone Co., 822 5th av, Pittsburgh, Pa.
Manhattan Electrical Supply Co., 17 Park Pl, N. Y., & 188 5th av, Chicago
New York Telephone Co., 18 Cortlandt, New York
Pettes & Randall Co., 150 Nassau, New York
Sumter Telephone Mfg. Co., Sumter, S. C.
United States Electric Protection & Construction Co. (Inc.) ("Bruckner"), 220 B'way, N. Y.
Thwaites & Horner ("Thwaites" Intercommunicating), 1215 Filbert, Phila., Pa.
Vought-Berger Co., La Crosse, Wis.

Telephones & Apparatus

(See also Switchboards, Telephone.)

Ackerman, Chas. N. & Co. (Inter-Communicating), 287 Elm, Chicago, Ill.
Allen-Hussey Co. (Interior), 66 W Jackson boul, Chicago
Altman & Co. (Automatic Inter-Communicating), 69 Dearborn, Chicago
American Electric Telephone Co. ("Samson" 6-Bar Bridging), 64th & State, Chicago, Ill.
American Machine Telephone Co., Piqua, O.
American Push Button Telephone Co., 136 Liberty, New York
Andrae, Julius & Sons Co., 225 W Water, Milwaukee, Wis.
Archer, G. F. (Celebrated Automatic, Intercommunicating), 39 Cortlandt, New York
Automatic Electric Co. Morgan & Van Buren, Chicago, Ill.
Automatic Telephone Switch Co., 529 N 9th, Phila., Pa.
Bradley, E. C. & Co., Rochester, N. Y.
Bunnell, J. H. & Co., 20 Park Pl, New York
Central Construction Co., Wauseon, O.
Central Telephone & Electric Co., 2135 Lucas av, St. Louis, Mo.
Century Telephone Construction Co., Buffalo, N. Y.
Chicago Electric Mfg. Co., 128 Clark, Chicago, Ill.
Chicago Telephone Supply Co., Elkhart, Ind.
Clark Automatic Telephone Switchboard Co., Providence, R. I.
CONNECTICUT TELEPHONE & ELECTRIC CO. (Inc.) (Interior & Long Distance), Meriden, Conn. (See adv. index end of book)
Country Home Telephone Mfg. Co., 215 S Clinton, Chicago
Commercial Electrical Supply Co., 1007 Market, St. Louis, Mo.
Connecticut Telephone & Electric Co., Meriden, Conn.
Cook, Frank B., Chicago, Ill.
Couch, S. H. Co., 156 Pearl, Boston, Mass.
Couch & Seeley Co., 10 Thacher, Boston, Mass.
Dean Electric Co., Elyria, O.
De Veau Telephone Mfg. Co. ("Automatic Switchless"), 27 Rose, New York
Dorlon, Philip S. Co., Troy, N. Y.
Dunham Telephone Mfg. Co., Dunham, N. C.
Eastern Telephone Mfg. Co., West Chester, Pa.
Electric Goods Mfg. Co., 115 Purchase, Boston, Mass.
Electric Supply Co., Sioux City, Iowa
Electrical Appliance Co., 132 Opera pl, Cincinnati, O.
Elliott Telephone & Electric Co., 520 Mass. av, Indianapolis, Ind.
Ericsson Telephone Co., 108 Duane, New York
Ericsson L. M. Telephone Mfg. Co., Buffalo, N. Y.
Eureka Electric Co., Genoa, Ill.

Fahnstock Transmitter Co., 74 Cortlandt, N. Y.
 Farr Telephone & Construction Supply Co., 118 W Jackson boul, Chicago
 Flsk & Newhall, 172 S Clinton, Chicago, Ill.
 Fitzsimmons Telephone Mfg. Co., 5th & Sycamore, Cincinnati, O.
 Garl Electric Co. (Intercommunicating Long Distance Desk, Hotel, Factory & Store, Portable Street Railway, etc.), Akron, O.
 Garrett, Miller & Co., Wilmington, Del.
 Gemmill Telephone & Mfg. Co., Crawford rd, Cleveland, O.
 Gilleland Electric Co., Adrian, Mich.
 Glohe Automatic Telephone Co., 153 W Jackson boul, Chicago
 Green Telephone & Elec. Mfg. Co., 204 Grand av, Milwaukee, Wis.
 Hipwell Mfg. Co., 831 North av, Allegheny, Pa.
 Hodge-Walsh Elec. Engineering Co., 701 Del av, Kansas City, Mo.
 Holtzer-Cabot Electric Co., Brookline, Mass.
 Independent Telephone Mfg. Co., Madison, Wis.
 International Telephone Mfg. Co., Harrison & Clinton, Chicago
 Jenkins Electric Co., York, Pa.
 Kellogg Switchboard & Supply Co., Green & Congress, Chicago
 Keystone Electric Telephone Co., 822 5th av, Pittsburgh, Pa.
 Kinsman Electric & Railway Supply Co., 91 Liberty, N. Y.
 Kinsman Electric & Railway Supply Co., 55 Dey, New York
 Kusel, David A., 1310 Pine, St. Louis, Mo.
 McQuat, Robt. L., Indianapolis, Ind.
 Manhattan Electrical Supply Co., 17 Park Pl., N. Y., & 188 5th av, Chicago
 Minnesota Electric Co., 309 2d av, S. Minneapolis, Minn.
 Modern Electric Co., Burlington, Iowa
 Monarch Telephone Mfg. Co., 14 S Clinton, Chicago, Ill.
 Moore's Telephone System, Caro, Mich.
 North Electric Co., 157 St. Clair, Cleveland, O.
 Novelty Electric Co., 52 N 4th, Phila., Pa.
 Pattengell, C. E. Son & Co., 116 John, N. Y.
 Pullen, Leon H. Elec. Co., 618 Chestnut, Phila., Pa.
 Randall-Loudon Electrical Co., Memphis, Tenn.
 Rhode Island Telephone & Electric Co., Providence, R. I.
 Schmidt-Lambert, Telephone Mfg. Co. (Extensor & Long Distance), Weehawken, N. J.
 Signalphone Co., Milwaukee, Wis.
 Simplex Interior Telephone Co., 217 E 3d, Cincinnati, O.
 Spencer Electrical Co., 163 Greenwich, N. Y.
 Standard Electric Co., 113 W 3d, Cincinnati, O.
 Stanley & Patterson, 23 Murray, New York
 Sterling Electric Co., Lafayette, Ind.
 Stoddard Telephone Construction Co. (Farm Telephone Apparatus), Monroe, Mich.
 Stromberg-Carlson Telephone Mfg. Co. (& Construction Material), Rochester, N. Y., & 72 W Jackson boul, Chicago
 Sumter Telephone Mfg. Co., Sumter, S. C.
 Swedish-American Telephone Co., 76 W Jackson boul, Chicago
 Utica Fire Alarm Telegraph Co., Utica, N. Y.
 Varney Electrical Supply Co., 235 S Meridian, Indianapolis, Ind.
 Vladuct Mfg. Co., 10 S Howard, Baltimore, Md.
 Victor Telephone Works, State & 64th, Chicago, Ill.
 Vought-Berger Co., La Crosse, Wis.
 Wentworth & Blake, 19 Hlgh. Boston, Mass.
 Wesco Supply Co., St. Louis, Mo.
 West Electric Co., Mt. Vernon, N. Y.
 Western Telephone Mfg. Co., 42 W Jackson boul, Chicago, Ill.
 Wilhelm Telephone Mfg. Co., 45 N Division, Buffalo, N. Y.
 Williams-Abbott Electric Co. (H. S. B.), Cleveland, O.
 Williams, E. G. Electric Works, 145 Quincy, Cleveland, O.
 Williams Telephone & Supply Co., Cleveland, O.
 Wire & Telephone Co. of America, Rome, N. Y.
 Wotton Electric & Mfg. Co., 52 Greenwood av, Atlanta, Ga.

Telpherage (Electric Conveying)

Dodge Cold Storage Co., Nicetown, Phila., Pa.
 United Telpherage Co., 20 Broad, New York.

Templates for Drilling Flanges

Western Tube Co., Kewanee, Ill.

Ten Pins

Estes, E. B. & Sons, 74 Warren, New York
 Hawes, Jas. H. Mfg. Co., Towanda, Pa.
 Hellenberg & Son, Coldwater, Mich.
 M'MILLANS', W. H. SONS, 153 South, New York. (See adv. index, end of book)

Tennis Racquet Mfrs.

Baneroff, Fredk. J., Pawtucket, R. I.
 Bridgeport Athletic Mfg. Co., 311 B'way, New York, N. Y.
 Horsman, E. I. Co., 365 B'way, New York, N. Y.
 Slazenger, F. L., 8 W. 28th st, New York, N. Y.
 Spalding, A. G. & Bros., 126 Nassau, New York, N. Y.
 Wright & Ditson, Boston, Mass.

*Tents (Camping, Lumberman's, Etc.)

CARPENTER, GEO. B. & CO., 202 S Water, Chicago, Ill. (See adv. index, end of book)

Tents for Railroad Contractors

COLORADO.

DENVER—Colorado Tent & Awning Co.
 Denver Tent & Awning Co.

ILLINOIS.

CHICAGO—CARPENTER, GEO. B. & Co., 202 S Water. (See adv. index, end of book)

Channon, H. Co., 32 Market
 Cook, E. C. & Bro., 49 E Kinzie
 Carpenter, Geo. B. & Co., 202 S Water
 Delta Mfg. Co., 30 S Canal
 Lieh, P. & Co., 19 W Randolph
 Murray Co., 61 W Washn
 U. S. Tent & Awning Co., Randolph & Des-
 ELGIN—Zelgler Bros. palnes
 PEORIA—Peoria Tent & Awning Co., 119 Main

INDIANA.

INDIANAPOLIS—Indianapolis Tent & Awning Co.

IOWA.

SIoux CITY—McNeil, H. C. & Son

MINNESOTA.

MINNEAPOLIS—American Tent and Awning Co.

MISSOURI.

KANSAS CITY—Boker & Lockwood, 621 Wyandotte

Kansas City Tent & Awning Co.
 ST. LOUIS—American Tent & Awning Co., Chestnut & 2d

Babstite Tent & Awning Co., 612 N 3d
 Doughery Bros. Tent & Awning Co., 218 Market

Globe Tent & Awning Co., 19 S 10th
 Missouri Tent & Awning Co., Chestnut & 2d

Morrison Tent & Awning Co., 115 Olive
 Mound City Duck & Rubber Co., 616 N 3d
 Sanders Duck & Rubber Co., 805 Wash'n av
 Wenzel, Herman, Main cor Elm
 Zittlosen Mfg. Co., 310 Elm

NEW YORK.

NEW YORK—Bauman, Chas. R., 86 South
 Harrison, John (Est. of), 170 South
 Harwood & Son (Also Export), 175 W Bway
 Hopkins, Jno. C. & Co., 119 Chambers
 McHugh, John F., 106 W 37th
 Magee, M. & Son, 147 Fulton
 Martin, Thomas, 326 Canal
 Rehm & Co., 141 Fulton
 Skelton, Frederick, 681 6th av

OHIO.

COLUMBUS—McAuley, J. A. Tent & Awning Company
 Sellars Tent & Awning Co., State & Centre sts

OREGON.

PORTLAND—Ames & Harris
 Portland Tent & Awning Co.

TENNESSEE.

MEMPHIS—Bluff City Tent & Awning Co., 315 Lee Bros., 292 Front 2d
 Memphis Tent & Awning Co., 200 Main
 Owens Tent Co., 276 Front

Terazzo Flooring

BATTERSON & EISELE, Main Office
 & Works, Edgewater, N. J., & Times hldg, 42d, New York. (See adv. index & branch offices, end of book)

CASCIO, S., 797-803 Lexington av, Brooklyn, N. Y. (See adv. index, end of book)
 Empire City Marble Co., 250 11th av, N. Y.
 Davis, J. W., Newport News, Va.
 Italian Marble Mosaic Co., 431 Spruce, Phila., Pa.

Lee White Marble & Terazzo Co., Lee, Mass.
 Mion Bros., Atlanta, Ga.
 McLauray, D. H. Marble Co., Walnut av, n 141st, New York

Murdock-Shaw Co., Boston, Mass.
 Schoone Mosaic Co., 234 E 6th, Cincinnati, O.
 Shipway, John H. & Bro., Locust av & 136th, N. Y.

Toscani Bros., 163 E 35th, New York.
 Toscani, J. A. & Co., 154 E. 33d, New York

Terazzo (Wholesale)

Jackson, C. D., 105th & E. R., New York
 Roussel, Chas. J., 524 W 50th, New York

Terminals (Fuse)

Central Telephone & Electric Co., 2135 Lucas av, St. Louis, Mo.

McIntire, C. Co., 13 Franklin, Newark, N. J.
 Moon Mfg. Co., 49 S Canal, Chicago, Ill.

Sterling Electric Co., Lafayette, Ind.
WORCESTER PRESSED STEEL CO.
 (Brass & Steel Knobs, etc.), Worcester, Mass. (See adv. index, end of book)

Terminals (Service)

Phila. Electrical & Mfg. Co., 2011 Market, Phila., Pa.

Terminals (Telephone Cable)

American Electric Telephone Co., 64th & State, Chicago, Ill.

Bissell, F. Co., Toledo, O.

Harvard Electric Co., 60 W. Van Buren, Chicago

Moon Mfg. Co., 49 S Canal, Chicago, Ill.

Mountain State Electrical Co., Wheeling, W. Va.
 Sterling Electric Co., Lafayette, Ind.

WORCESTER PRESSED STEEL CO.
 Worcester, Mass. (See adv. index, end of book)

Terminals (Wire)

Bliss-Chester Co. (Duplex), 31 Mathewson, Providence, R. I.

Briggs, W. H., 424 Bedford av., Brooklyn, N. Y.

Herz & Co., 187 Elm, New York

Mosler, A. R. & Co., 1679 B'way, New York

Never-Miss Spark Plug Co., Lansing, Mich.

Noonan Tool & Machine Works, Rome, N. Y.

Peerless Machine Co., 124 Miami av, Detroit, Mich.

Pittsfield Spark Coil Co., Pittsfield, Mass.

Shaln, Charles D., 70 Murray, New York

Springlight Terminal Co., Lansing, Mich.

*Terne Plates

AMERICAN SHEET & TIN PLATE CO., Frick bldg., Pittsburg, Pa. (See adv. index & branch offices, end of book)

Terra-Alba

Hammill & Gillespie, 240 Front, N. Y.

Higginsor Mfg. Co., Newburg, N. Y.

Keystone Plaster Co. (for Paint Mfrs.), Chester, Pa.

King, J. B. & Co., 1 B'way, New York

Nevis, Sam'l Co., 109 S 2d, Phila., Pa.

Salomon, L. A. & Bro., 213 Pearl, New York

The New Jersey Terra Cotta Co.

MANUFACTURERS OF

ARCHITECTURAL TERRA COTTA
HIGH GRADE, NON-ABSORBENT LIMESTONE
ENAMELED, GLAZED AND SEMI-GLAZED IN ALL COLORS

WORKS, PERTH AMBOY, N. J.
 TELEPHONE 84

OFFICE, 108 FULTON ST., N. Y. CITY
 TELEPHONE 4396 and 4397 JOHN

Terra Cotta (Architectural)

American Terra Cotta & Ceramic Co., Chicago, Ill., & Terra Cotta, Ill.
 Atlanta Terra Cotta Co., Austell bldg, Atlanta, Ga.
ATLANTIC TERRA COTTA CO., 1170
 B'way, New York. Works, Tottenville, S. I., New York. (See adv. index, end of book)
 Brick Terra Cotta & Tile Co., Corning, N. Y.
CARTER, BLACK & AYRES (Inc.),
 (Mfrs. Agts.), 1 Madison av., N. Y. (See adv. index, end of book)
CINCINNATI WALL TILE CO., 206 E. 5th,
 Cincinnati, O. (See adv. index, end of book)
 Clark, N. & Sons, 17 Spear, San Francisco, Cal.
 Conkling-Armstrong Terra Cotta Co., 24 S 7th, Philadelphia, Pa., & 1133 B'way, N. York
 Denny-Renton Clay & Coal Co., Seattle, Wash.
FISKE & COMPANY (Inc.), 161 Devonshire,
 Boston, Mass., & Flatiron bldg, New York. (See adv. index, end of book)
 Gladding, McBean & Co., Rialto bldg, San Francisco, Cal. Works, Lincoln, Cal.
 Indianapolis Terra Cotta Co., Brightwood, Indianapolis, Ind.
 Ketcham, O. W. (Mfrs. Agt.), 24 S 8th, Philadelphia, Pa.
 Lage, Mrs. Bernard H., 484 Greenwich, New York. Factory, Menlopark, N. J.
NEW JERSEY TERRA COTTA CO.,
 108 Fulton. (See adv. above)
 New York Arch'l Terra Cotta Co., 225 5th av., N. Y.; Long Island City, New York
N. E. TERRA COTTA CO., Bradford, Pa.
 (See adv. index, end of book)
NORTHWESTERN TERRA COTTA
 Co., Main Office & Works, 1000 Clybourn av. Branch Office, 1415 Railway Exchange, Chicago, Ill. (See adv. index, end of book)
ORCHARD KNOB CLAY WORKS CO., Ironton, O.
SOUTH AMBOY TERRA COTTA CO., 150
 Nassau, N. Y.; Works South Amboy, N. J. (See adv. index, end of book)
 Rogers Terra Cotta Co., Moorestown, N. J.
 Southern Terra Cotta Works, Atlanta, Ga.
THOMAS, E. H. (Mfrs.' Agent), 1123
 B'way, N. Y.

Washington Brick, Lime & Mfg. Co., Spokane, Wash.
 White, Scott A. (Mfrs.' Agent, Northwestern), 311 Lewis blk, Pittsburgh, Pa.
WINKLE TERRA COTTA CO., 502 Century
 Bldg., St. Louis, Mo.; Works Cheltenham, St. Louis. (See adv. below)

Terra Cotta (Architectural Enameled)

ATLANTIC TERRA COTTA CO., 1170
 B'way, New York. Works, Tottenville, S. I., N. Y. (See adv. index, end of book)
 Gladding, McBean & Co., San Francisco, Cal. Works, Lincoln, Cal.
NEW JERSEY TERRA COTTA CO., 108
 Fulton. (See adv. above)
N. E. TERRA COTTA CO., Bradford, Pa.
 (See adv. index, end of book)
NORTHEASTERN TERRA COTTA
 Co., Bradford, Pa. (See adv. index, end of book)
NORTHWESTERN TERRA COTTA
 Co., Main Office & Works, 1000 Clybourn av. Branch Office, 1415 Railway Exchange, Chicago, Ill. (See adv. index, end of book)
SOUTH AMBOY TERRA COTTA CO.,
 150 Nassau, New York. Works: South Amboy, N. J. (See adv. index, end of book)
WINKLE TERRA COTTA CO., Century
 bldg, St. Louis, Mo. Works, Cheltenham, St. Louis. (See adv. below)

Terra Cotta (Glazed)

ATLANTIC TERRA COTTA CO., 1170
 B'way, New York. Works, Tottenville, S. I., N. Y. (See adv. index, end of book)
FISKE & COMPANY (Inc.), 161 Devonshire,
 Boston, Mass., & Flat Iron Bldg., New York. (See adv. index, end of book)
 Grueby Faience Co., E 1st & K, Boston, Mass.
 Hartford Faience Co., Hartford, Conn.
 Lage, Mrs. Bernahrd H., 484 Greenwich, New York. Factory, Menlopark, N. J.

NEW JERSEY TERRA COTTA CO., 108
 Fulton. (See adv. above)
NORTHWESTERN TERRA COTTA
 Co., Main Office & Works, 1000 Clybourn av. Branch Office, 1415 Railway Exchange, Chicago, Ill. (See adv. index, end of book)
ROCHESTER SEWER PIPE CO., Rochester, N. Y.
SOUTH AMBOY TERRA COTTA CO.,
 150 Nassau, New York. Works: South Amboy, N. J. (See adv. index, end of book)
WINKLE TERRA COTTA CO., Century
 bldg, St. Louis, Mo. Works, Cheltenham, St. Louis. (See adv. below)

Terra Cotta Hip Rolls

(See Roofing Tile, Terra Cotta.)

Terra Cotta Lumber

(See Fire Proofing, Hollow Tile; Also Fire Proofing, Porous Brick & Tile.)

Testers (Center)

Starrett, L. C. Co., Athol, Mass.

Testers (Creamery)

Burrell, D. H. & Co. ("Facile & Babcock"), Little Falls, N. Y.
 Creamery Package Mfg. Co. ("Wizard"), 182 E Kenzie, Chicago, Ill.
 Dairy Specialty Co. ("Babcock"), Westchester, Pa.
 Edson, Wyman L., Union Center, N. Y.
 Fargo Creamery Supply House ("Victor & Ideal Babcock"), Lake Mills, Wis.
 Jones, Frank L., Utica, N. Y.
 Polar Creamery Co. ("Fowlers" Improved), Lafayette, Ind.
 Sharpless Separator Co. (Russian Standard & "No-tin," "Babcock"), West Chester, Pa.
 Vermont Farm Machine Co. (Agos, "Babcock"), Bellows Falls, Vt.
 Zero Creamery Co., Peru, Ind.

THE WINKLE TERRA COTTA CO.

MANUFACTURERS OF

Architectural : Terra : Cotta
IN ALL COLORS.

Office, Rooms 502-503, Century Building,

ST. LOUIS, MO.

WORKS, CHELTENHAM, ST. LOUIS

The Northwestern Terra-Cotta Company

MANUFACTURERS OF
THE HIGHEST GRADES OF

Architectural Terra-Cotta

Enameled Work a Specialty.

Main Office and Works :
1000 Clybourn Avenue

Branch Office :
1415 Railway Exchange Building

CHICAGO.

N. E. TERRA COTTA COMPANY

Main Office and Works, BRADFORD, PENNA.



NEW YORK
No. 1 MADISON AVENUE

OFFICES
PITTSBURG
FULTON BUILDING

CLEVELAND
SCHOFIELD BUILDING



ST. JOSEPH'S NORMAL COLLEGE.

JOHN E. KERBY, Architect, N. Y.

CHR. MATHIASSEN, President.

WM. MATHIASSEN, Vice-President

PETER C. OLSEN, Secretary-Treasurer

The South Amboy Terra Cotta Co.,

ARCHITECTURAL TERRA COTTA IN ALL COLORS,

Office, 150 NASSAU STREET, NEW YORK.

WORKS, SOUTH AMBOY, N. J.

ATLANTIC TERRA COTTA COMPANY

SUCCESSOR TO

THE ATLANTIC TERRA COTTA CO.

PERTH AMBOY TERRA COTTA CO.

EXCELSIOR TERRA COTTA CO.

STANDARD TERRA COTTA WORKS

THE LARGEST MANUFACTURERS OF

ARCHITECTURAL TERRA COTTA

IN THE WORLD

Polychrome and one color glazed material, both lustrous and mat finish, and standard terra cotta, with vitreous and ordinary surfaces, can be supplied by us in almost any conceivable range of shades.

ADDRESS NEAREST OFFICE :

MAIN OFFICE, 1170 BROADWAY, NEW YORK
1308 COMMONWEALTH BLDG., PHILA., PA.
833 OLD SOUTH BLDG., BOSTON, MASS.
1113-1114 FULTON BLDG., PITTSBURG, PA.

9 BUILDER'S EXCHANGE, BUFFALO, N. Y.
729 15TH STREET, N. W., WASHINGTON, D. C.
CARPENTER BLDG., NORFOLK, VA.
MONADNOCK BLDG., SAN FRANCISCO, CAL.

Testers (Mine Gas)

Quimby Engineering Co., 913 Ridge av,
Phila., Pa.

Testers (Paper)

Perkins, B. F. & Son ("The Mullans"), Holyoke, Mass.

Testers (Syrup)

SCHAEFFER & BUDENBERG MFG. CO.,
Foxboro, Mass. (See adv. index & branch
offices, end of book)

Testing Apparatus (Ventilator)

QUEEN & CO. (Inc.), N. W. c. 8th & Arch,
Phila., Pa. (See adv. index, end of book)

**Testing Instruments & Meters
(Electrical)**

QUEEN & CO. (Inc.), n w c 8th &
Arch, Phila., Pa. (See adv. index, end of
book)

Testing Laboratories

Booth, Garrett & Blair, 404 Locust, Phila., Pa.
Conrad, W. R., Burlington, N. J.
Pittsburg Testing Laboratory (Ltd.), Pitts-
burg, Pa.
St. Louis Sampling & Testing Works (Ores,
Fuels, etc.), St. Louis, Mo.
Spackman, Henry S. Engineering Co., 42 N.
16th, Phila., Pa.

Testing Machine Mfrs.

(For All Testing Machines See Index of Con-
tents.)

Textile Machinery, Supplies, Etc.

NOTE.—For various kinds of Textile Machin-
ery, Textile Mill Supplies, etc., see sub-
classifications of this head, following in
regular alphabetical order. If you fail to
find any particular article you are looking
for classified here, consult the Index of
Contents. If not then successful in locat-
ing it, drop us a line, describing article
required, and we will, free of charge, use
our best efforts to look it up for you.

APRONS (ENDLESS)

Barlow, Jno. W. Co., Lawrence, Mass.
BOSTON BELTING CO., 246 Devonshire,
Boston, Mass. (See adv. index, end of
book)
Gutta Percha & Rubber Mfg. Co., 126 Duane,
N. Y.
Harwood, Geo. S. & Son, 53 State, Boston,
Mass.
N. J. Car Spring & Rubber Co., Jersey City, N. J.

APRONS (LEATHER)

(For page number consult index of contents)

APRON LEATHER (RAW HIDE)

Coupe, Wm. & Co. (Excelsior), S Attleboro,
Mass.

APRON LEATHER (WORSTED)

Brown Bros. Co., Providence, R. I.
Coupe, Wm. & Co. (Excelsior), S Attleboro,
Mass.
Schieren, Chas. A. & Co., 30 Ferry, New York

APRONS (LOOM)

Folsom, Fred W. & Co., 2 Planet, Providence,
R. I.
Pease, L. F. Co., 7 Crawford, Providence, R. I.

APRONS (WORSTED COMBING)

American Multiple Fabric Co., Olneyville, R. I.
Barlow, Jno. W. Co., Lawrence, Mass.
Barnes, Henry K., 104 Franklin, Boston,
Mass.
Coupe, Wm. & Co. ("Excelsior"), S. Attle-
boro, Mass.
Eddy & Street, Providence, R. I.
Harwood, Geo. S. & Son, 53 State, Boston,
Mass.
HUDSON BELTING CO. (Sheepskin), 3
Eaton pl., Worcester, Mass. (See adv.
index, end of book)
Parr, Wm., Lowell, Mass.
Pechin, Jno. W., 124 N. 3d, Phila., Pa.

BALE BREAKERS

Firth, Wm. Co. ("Asa Lees & Co., Ltd."), 79
Milk, Boston, Mass.
Howard & Bullough Am. Machine Co., Ltd.,
Pawtucket, R. I.

BALING PRESSES.

(See Presses.)

BALLING MACHINES

Curtis & Marble Machine Co., Worcester, Mass.
Draper Co., Hopedale, Mass.
Entwistle, T. C. Co., Lowell, Mass.
Riley, C. E. & Co., 65 Franklin, Boston, Mass.
Smith, Jas. Woolen Machinery Co., Philadel-
phia, Pa.
Smith & Furbush Machine Co. ("Furbush"),
Phila., Pa.
Torrance Mfg. Co., 18 Davis, Newark, N. J.

BALL WINDING MACHINES

Franklin Machine Co., Providence, R. I.

**BAND FOLDING & CUTTING MA-
CHINES**

Kennedy, Thos., Cohoes, N. Y.

BANDING

(See Braided Banding.)

BANDING MACHINES.

Cole Bros. (Improved Inman Automatic Loop),
Pawtucket, R. I.
Draper Co. ("Weeks"), Hopedale, Mass.
Whittle, James H., Worcester, Mass.
Whittle, James H., Worcester, Mass.

BANDS (HOSIERY)

(See Hosiery Bands)

BASKETS (MILL)

(See Index of Contents.)

BEAMERS

Altamus, Jacob K., 2824 N 4th, Philadelphia.
Atwood-Morrison Co., Stonington, Conn.
Butterworth, H. W. & Sons Co., 2415 E York,
Phila., Pa.
Cole Bros., Pawtucket, R. I.
Entwistle, T. C. Co., Lowell, Mass.
Globe Machine & Fdry. Co., Fkd., Phila., Pa.
How & Bassett, Norfolk Downs, Mass.
Hughes & Russum, Frankford, Philadelphia,
Pa.
Lever, Oswald, Lehigh av & Mascher, Phila.,
Pa.
Paterson Machine Works, Paterson, N. J.
Smith, Jas. Woolen Mach. Co., 411 Race,
Phila., Pa.
Smith & Furbush Machine Co. ("Furbush"),
Phila., Pa.
Whittle, James H. (Single or Double),
Worcester, Mass.

BEAMING RATHES

Allen, A. W., 2427 Mascher, Phila., Pa.
Walker Mfg. Co., 191 Berks, Phila., Pa.

BELT DRESSING

(See Page 57)

BELT HOLE GUARDS

Draper Co., Hopedale, Mass.

BELTING

(See Page 58)

BLACKING MACHINERY

Butterworth, H. W. & Sons Co., 2415 E York,
Phila., Pa.
Collyer Mach. Co., Pawtucket, R. I.
Klison Machine Co., Lowell, Mass.

BLEACHERS (KNIT GOODS)

Rowland, Sam'l, Schuylkill Haven, Pa.

BLEACHING MACHINERY

American Drying Machine Co., 3301 N. 19th,
Phila., Pa.
Arlington Machine Works, Arlington Heights,
Mass.
Birch Bros., Somerville, Mass.
Butterworth, H. W. & Sons Co., 2415 E York,
Philadelphia, Pa.
Empire Laundry Machinery Co., Boston, Mass.

Holyoke Machine Co., Holyoke, Mass.
Hopkins Machine Works, Inc. (Peroxide),
Bridgedon, R. I.
Hunt, Rodney, Machine Co., Orange, Mass.
Klauder-Weldon Dyeing Machine Co., Amster-
dam, N. Y.
Klein, Chas. C., 2850 N Marshall, Phila., Pa.
Philadelphia Drying Machinery Co., 6721 Gtn
av, Phila., Pa.
Phoenix Iron Works Corporation, Hartford,
Conn.
Rothe, O. & P. Mfg. & Supply Co., Norristown,
Pa.
Smith, Drum & Co., 2503 Coral, Phila., Pa.
Textile Finishing Machinery Co., 17 Exchange
pl, Providence, R. I.
Watson Machine Co., Paterson, N. J.
Winsor & Jervauld Mfg. Co., Providence, R. I.
Worcester Steam Boiler Works (Klers), Wor-
cester, Mass.
Yaryan Co., 41 Park Row, N. Y.

BLOWERS

(See Page 68)

BLUEING MACHINES

Butterworth, H. W. & Sons Co., 2415 E York,
Phila., Pa.
Textile Finishing Machinery Co., 17 Exch pl,
Providence, R. I.

BOBBIN HOLDERS

Draper Co. ("Lawrence," "Rhoades"), Hope-
dale, Mass.
Roney & Rae Co. ("Little Giant"), Woonsock-
et, R. I.
Murdock & Geb Co. ("Murdock" for Mules,
Winders & Twisters), Franklin, Mass.

BOBBIN RINGS

Morgan Spring Co., Worcester, Mass.

BOBBIN WINDERS

Altamus, Jacob K., 2816 N 4th, Phila., Pa.
Diamond Textile Machine Works, 2d & Dia-
mond, Phila., Pa.
Lever, Oswald, Lehigh av & Mascher, Phila.,
Rhode Island Braiding Machine Co., Providence,
R. I.
Smith, James Woolen Machinery Co., 411 Race,
Phila., Pa.
Smith & Furbush Machine Co. ("Furbush"),
Phila., Pa.
Tompkins Bros. Co., Troy, N. Y.
Whittle, Jas. H., Worcester, Mass.

BOBBINS

Adams Bobbin & Spool Co., Adams, Mass.
Allentown Bobbin Works (Steel), Allentown,
Pa.
American Supply Co., Providence, R. I.
Arnold Bobbin Co., Kittingly, Conn.
Baker, Michael & Sons, Johnsville, N. Y.
Baldwin, Jas. Co., Manchester, N. H.
Bethel Bobbin Co., Bethel, Vt.
Billington, Jos. H. & Co., 113 Chestnut, Phila.,
Pa.
Blaiser's Novelty Works, Rome, N. Y.
Bobbin & Spindle Works, Charlestown, S. C.
Brown Bros. Co., Providence, R. I.
Chandler, Chester, Landoff, N. H.
Chester Mfg. Co., Chester, Mass.
Clover Leaf Mfg. Co., Carbondale, Pa.
Cohurn, Fred. S., 243 Main, Woonsocket, R. I.
Courtney, D. S., Chicopee, Mass.
Daggers, Jno. R., Paterson, N. J.
Dudley, Sumner A., Taunton, Mass.
Eaton, Hy. A., Littleton, N. H.
Eaton, Isaac Co., Nashua, N. H.
Excelsior Bobbin & Spool Co., Newtown, Pa.
Fall River Bobbin & Shuttle Co., Fall River,
Mass.
Fall River Foundry & Machine Co., Fall River,
Mass.
Hoyle, Jos. Bobbin Co., Woonsocket, R. I.
Fletcher Mfg. Co., Providence, R. I.
Georgia Spool & Bobbin Mfg. Co., Macon, Ga.
Griggs Mfg. Co., Lincolnton, N. C.
Hall, I. A. & Co., Paterson, N. J.
Hartson, L. M. Co. (Iron, Fibre & Wood
Heads), North Windham, Conn.
Hebbard, C. C. (In the rough), Shelburne,
N. H.
Lishon Bobbin Works, Lisbon, N. H.
Lyndon Mfg. Co., Athens, Ga.
McCrillis, F. D. & Co., Groton, Vt.
McGuire, Jno. A., Clermont, N. H.
Mack, H. A. Woodworking Co. (Silk), Weath-
erly, Pa.
Mallard Lumber & Bobbin Co., Greenville,
Pa.
Mawson Bros. (Silk), Newtown, Pa.
Mawson Spool & Bobbin Co., Lestershire, N. Y.

Murray, Chas. O., Nashua, N. H.
Nashua Spool & Bobbin Co., Nashua, N. H.
National Spool & Bobbin Co., Weatherly, Pa.
Nelson & Ross, Groveton, N. H.
New England Shuttle Co., 64 Leverett, Lowell, Mass.

Ohio Valley Pulley Works, Maysville, Ky.
Orleans Bobbin Co., Newport, Vt.
Parker & Young Co., Lisbon, N. H.
Parkinson, E. Co., Saxonville, Mass.
Payne, Geo. W. Co. (Hosiery Winder), Pawtucket, R. I.

Pittsfield Electric Co., Pittsfield, Me.
Porter Shuttle & Bobbin Co., Watertown, Mass.
Potter Bros., South Scituate, R. I.
Reeves Spool & Bobbin Co., Toccoa, Ga.
Sherwood Bobbin & Mfg. Co., Greensboro, N. C.

Southern Bobbin, Spool & Shuttle Co., Greensboro, N. C.
Southern Shuttle & Bobbin Co., Westminster, S. C.

Speed & Stephenson (Wilson & Co., Barnsley, Ltd.), 170 Summer, Boston, Mass.

Spool & Bobbin Mfg. Co., Greenwood, S. C.
Sprague, L. Co., Lawrence, Mass.
Sweet & Doyle, Cohoes, N. Y.

Taft & Clark, Winchendon, Mass.
Tibbetts, E. L. & Co., Locke's Mills, Me.
U. S. Bobbin & Shuttle Co., Providence, R. I.

Van Riper Mfg. Co., Paterson, N. J.
Vermont Spool & Bobbin Co., Burlington, Vt.
Weld Bobbin & Spool Co., 42 Island, Lawrence, Mass.

Wilbur, Benj., South Scituate, R. I.
Wisconsin Textile Mfg. Co., Two Rivers, Wis.
Woodstock Hardwood & Spool Mfg. Co. (Heavy for Rope & Cordage, etc.), Charleston, S. C.

Woodward, Russell M., Colebrook, N. H.

BOX SHOOKS

(See Lumber Mfrs.)

BOXES (DRAWING & ROVING)

Lowell Machine Shop, Lowell, Mass.
Riley, C. E. & Co., 65 Franklin, Boston, Mass.
Speed & Stephenson, 170 Summer, Boston, Mass.

BOXES (MILL)

American Vulcanized Fibre Co. (Laminar Dept.), 1017 Market, Wilmington, Del.
Diamond State Fibre Co., Elsmere, Del.
Lowell Machine Shop, Lowell, Mass.
Spaulding-Perkins Co., Rochester, N. H.

BOXES (STEAM)

Textile Finishing Machinery Co., 17 Exchange pl., Providence, R. I.
Watson Machine Co., Paterson, N. J.
Worcester Steam Boiler Works, Worcester, Mass.

*BOXES (TIN FILLING)

Whittle, Jas. H., Worcester, Mass.

BRAID CALENDERING MACHINES

Rhode Island Braiding Machine Co., Providence, R. I.

BRAID ROLLING MACHINES

Rhode Island Braiding Machine Co., Providence, R. I.

BRAIDED BANDING

(See also Cotton Bandings.)

Buffalo Weaving & Belting Co., Buffalo, N. Y.
Covel & Osborn Co., 139 Pleasant, Fall River, Mass.

Frost, Geo. T. & Sons, Paterson, N. J.
Hoffman-Corr Mfg. Co., 55 White, New York.
Holden, Jas., Fall River, Mass.

Kensington Machine Works, 2642 N. Mascher, Phila., Pa.

Moore, C. & Co., 500 Market, Phila., Pa.
Small Bros., Fall River, Mass.

Speed & Stephenson (Wm. Halsey's), 170 Summer, Boston, Mass.

Toohey, M. J. & Co., Fall River, Mass.

BRAIDERS (PACKING)

Rhode Island Braiding Machine Co., Providence, R. I.

BRAIDING MACHINERY

New England Butt Co., Providence, R. I.
Rhode Island Braiding Machine Co., Providence, R. I.
Textile Machine Works, Reading, Pa.

BREAKING MACHINES (HARD WASTE)

Curtis & Marble Machine Co., Worcester, Mass.
Riley, C. E. & Co., 65 Franklin, Boston, Mass.

BREASTS (METALLIC)

Smith, James Woolen Machinery Co., Philadelphia, Pa.

Smith & Furbush Machine Co., Philadelphia, Pa.

BRUSHES (MILL)

Bradley & Smith, 251 Pearl, New York
Cincinnati Mfg. Co., 211 Walnut, Cincinnati, O.
Columbia Napper Clothing Co., Lawrence, Mass.
Edwards, Henry & Co., 146 Fletcher, Lowell, Mass.

Felton, S. A. & Son Co., Manchester, N. H.

HEARTLEY MACHINE, VARIETY IRON & Tool Works (Mill Cloth Cleaning Brushes), Toledo, O. (See adv. index, end of book)

Jacobus, A. G., Verona, N. J.

Lahnc, M. M. & Co., Lowell, Mass.

Leavens, Murphy & Co., 28 Exchange, Boston, Mass.

Mason Brush Works, Worcester, Mass.

Nebes, David, 256 Lawrence, Lowell, Mass.

North Chelmsford Machine & Supply Co. (Comb & Machine), North Chelmsford, Mass.

Parks & Woolson Machine Co., Springfield, Vt.

Rhode Island Braiding Machine Co., Providence, R. I.

Rhode Island Brush Co., Providence, R. I.

Turner, J. S. Mfg. Co. (Comb & Machine), Lowell, Mass.

Voelker, Philip L., 921 Westminster, Providence, R. I.

Wild, Joseph, Fall River, Mass.

BRUSHING MACHINES

(See Cloth Brushing Machines.)

BUCKRAM MACHINERY

Howard Foundry & Machine Works, Landdowne, Pa.

BURLING IRONS

American Supply Co., Providence, R. I.

BURR BLADES

Ames, David J. & Co., Philmont, N. Y.
Cooper, Chas., Bennington, Vt.
Crane Mfg. Co., Lakeport, N. H.
Jarrard Needle Works, New Brunswick, N. J.
Tompkins Bros. Co., Troy, N. Y.

BURRING MACHINES

Arthur Co., 188 Front, New York
Brown Cotton Gin Co., New London, Conn.
Curtis & Marble Machine Co., Worcester, Mass.

Hemmingway Machine Co., Lynn, Mass.

Gaubert Mfg. Co., 85 Liberty, N. Y.

Lombard Machine Co. (Steel Ring), Worcester, Mass.

Sargent's, C. G. Sons, Westford, Mass.

Smith, James Woolen Machinery Co., 411 Race, Phila., Pa.

Smith & Furbush Machine Co. ("Proctor"), Philadelphia, Pa.

BUTTONHOLE MACHINES

Champion Buttonhole Machine Co., 10 High, Boston, Mass.

Hammond & Harmount Mfg. Co., Belvidere, Ill.

Lufkin, John W., 38 Chardon, Boston, Mass.

National Machine Co., Hartford, Conn.

National Machine Co., Mamaroneck, N. Y., & Troy, N. Y.

Reece Buttonhole Machine Co., Boston, Mass.

Singer Sewing Machine Co., 149 Broadway, New York

Standard Sewing Machine Co., Cleveland, O.

CALENDERING MACHINES

(See Index of Contents.)

CALICO PRINTERS' MACHINERY

Arlington Machine Works, Arlington Heights, Mass.

Butterworth, H. W. & Sons Co., Phila., Pa.

Frankford Machine Works, Frankford, Phila., Pa.

Taunton-New Bedford Copper Co., New Bedford, Mass.

Textile Finishing Machinery Co., 17 Exchange pl., Providence, R. I.

Waldren, Jnn. Co., New Brunswick, N. J.

Watson Machine Co., Paterson, N. J.

CANS (COTTON)

New England Ventilating & Heating Co., Providence, R. I.

CANS (DRYING)

New England Ventilating & Heating Co., Providence, R. I.
Whittle, Jas. H., Worcester, Mass.

CANS (DYE HOUSE)

Hill, James Mfg. Co., Providence, R. I.

CANS (MILL)

Clark, W. J. Co., Salem, O.
Durlach, I., 54 Vesey, New York.
Iron Clad Mfg. Co., 22 Cliff, New York
N. E. Ventilating & Heating Co., Manton av., Providence, R. I.

CANS (OIL)

(See Page 180)

CANS (ROVING)

(See Roving Cans.)

*CANS (VENEER COTTON)

Whittle, Jas. H., Worcester, Mass.

CARBONIZERS

American Drying Machinery Co., Westmoreland, & P. & R. Ry., Phila., Pa.

Bamford & Smith, Pascoag, R. I.

Blanding, C. L. Mfg. Co., Providence, R. I.

Hudson Fibre Co., Hudson, N. Y.

Hunt, Rodney Machine Co., Rodney, Mass.

Hunter, Jas. Machine Co., N. Adams, Mass.

Lord, Bowler & Co., 33 Center, Cleveland, O.

Philadelphia Drying Machinery Co. ("Cyclone"), Phila., Pa.

Smith & Furbush Machine Co., Philadelphia, Pa.

Sargent's, C. G. Sons, Westford, Mass.

Textile Finishing Machinery Co., 17 Exchange pl., Providence, R. I.

CARD ATTACHMENTS

Kip-Armstrong Company (Electrical Warp Stop Motion), Pawtucket, R. I.

Smith & Furbush Machine Co. ("Furbush"), Phila., Pa.

CARD CLOTHING

American Card Clothing Co., Worcester, Mass.

Ashworth Bros., Fall River, Mass.

Bagshaw, W. H. (Est. of), Lowell, Mass.

Beckwith Card Co., Stafford Springs, Conn.

Booth, Benj. & Co. (Ltd.), 1717 N. Bodine, Philadelphia, Pa.

Bowes, L. M. Co. (Imported), 451 Atlantic av., Boston, Mass.

Crabb, Wm. & Co., Newark, N. J.

Edma Card Clothing Co., Camden, N. J.

English, C. R. Co., 204 Summer, Boston, Mass.

Firth, Wm. Co. (Yates & Sons & Sykes Bros.), 79 Milk, Boston, Mass.

Hammer, C. H., Jr., & Co., 423 Belgrade, Phila., Pa.

Howard Bros. Mfg. Co., 42 Vine, Worcester, Mass.

Jefferson, Edw. & Bro., 127 S. 2d, Phila., Pa.

Leicester Card Clothing Co., Leicester, Mass.

Leigh, Evan Arthur (Joseph Sykes Bros. & Critchley's), 232 Summer, Boston, Mass.

Lombard Machine Co., Worcester, Mass.

McKerrow, H. G. & Co., 31 State, Boston, Mass.

Riley, C. E. & Co. (Jno. Whitely & Sons & L. M. Tetlow & Sons), 65 Franklin, Boston, Mass.

Southern Card Clothing & Reed Co., Charlotte, N. C.

Speed & Stephenson (S. Halley & Sons, Ltd.), 170 Summer, Boston, Mass.

Stoddard, Haserick, Richards & Co., 152 Congress, Boston, Mass.

Stott, S. E. & T., Lowell, Mass.

Street, R. R. & Co., 186 Washington, Chicago, Ill.

Sykes, Jos. Bros., Charlotte, N. C.

Walpole Card Clothing Co., Walpole, Mass.

CARD CUTTING MACHINES

Mason Machine Works, Taunton, Mass.
Royle, John & Sons (Jacquard), Paterson, N. J.
Whittle, Jas. H., Worcester, Mass.

CARD GRINDER WHEELS

Stillman-Randal Machine Co., Westerly, R. I.

CARD GRINDING MACHINES

Barker, James, 6th cor Cayuga, Philadelphia,
Entwistle, T. C. Co., Lowell, Mass.
Firth, Wm. Co. (Dronsfeld), 179 Milk, Bos-
ton, Mass.

Lombard Machine Co., Worcester, Mass.
Lowell Machine Shop, Lowell, Mass.
Mason Machine Works, Taunton, Mass.
Riley, C. E. & Co. (Mfrs.' Agts.), 65 Frank-
lin, Boston, Mass.

Roy, B. S., Worcester, Mass.
Smith, James Woolen Machinery Co., 411 Race,
Phila., Pa.

Smith & Furbush Machine Co. ("Furbush"),
Phila., Pa.

CARD MIDDLES

MacSim Bar Paper Co., Otsego, Mich.
Otsego Coated Paper Co., Otsego, Mich.

CARD REPEATERS (JACQUARD)

Halton's, Thos. Sons, Allegheny av & C, Phil-
adelphia, Pa.
Royle, John & Sons (French Index & Fine
Scale Repeaters), Paterson, N. J.
Schaum & Uhlinger, North Penn Junc., Phil-
adelphia, Pa.

CARD SCREENS (PATENT BAR)

Whittle, James H. (Tin), Worcester, Mass.

**CARD STITCHING MACHINES (JAC-
QUARD)**

Singer Sewing Machine Co., 149 B'way, New
York

CARD SETTING MACHINERY

Smith, Israel H., Providence, R. I.

CARD STRETCHERS

Smith & Furbush Machine Co. ("Furbush"),
Phila., Pa.

CARDERS' TOOLS

Brown, W. H., Worcester, Mass.
Roy, B. S., Worcester, Mass.

CARDS (COTTON)

Billington, Jas. & Co., 113 Chestnut, Phila., Pa.
Fall River Foundry & Machine Co., Fall River,
Mass.

Franklin Machine Co., Providence, R. I.
Lowell Machine Shop, Lowell, Mass.
Mason Machine Works, Taunton, Mass.
Pevey Bros., Lowell, Mass.
Saco & Pettee Machine Shops, Newton Upper
Falls, Mass.
Whitin Mach. Works, Whitinsville, Mass.

CARDS (FELT)

Whittle, Jas. H., Worcester, Mass.

CARDS (FOSS & PEVEY)

Fall River Foundry & Machine Co., Fall River,
Pevey Bros., Lowell, Mass.
Saco & Pettee Machine Shops, Newton Upper
Falls, Mass.

CARDS (HAND)

Beckwith Card Co. (Stripping), Stafford
Springs, Conn.
Columbia Napper Clothing Co., Lawrence, Mass.
Edma Card Clothing Co., Camden, N. J.
Howard Bros. Mfg. Co. (Stripping) 42 Vine,
Worcester, Mass.
Smith, Jas. Woolen Machinery Co., Phila., Pa.
Watson, L. S. Mfg., Leicester, Mass.

CARDS (JACQUARD)

Case Bros., Highland Park, Conn.
Rogers Paper Mfg. Co., Inc., South Manches-
ter, Conn.

CARDS (REVOLVING FLAT)

Howard & Bulloughs Am. Mach. Co., Ltd.,
Pawtucket, R. I.
Firth, Wm. (Asa Lees & Co., Ltd.), 79 Milk,
Boston, Mass.
Lowe, Stephen C., 186 Devonshire, Boston,
Lowell Machine Shop, Lowell, Mass.
McKerrow, H. G. & Co., 31 State, Boston, Mass.
Riley, C. E. & Co., 65 Franklin, Boston, Mass.
Saco & Pettee Machine Shops, Newton Upper
Falls, Mass.
Whitin Machine Works, Whitinsville, Mass.

CARDS (ROLL)

Whittle, Jas. H., Worcester, Mass.

CARDS (SIMPLEX)

Stoddard, Haserick, Richards & Co., 152 Con-
gress, Boston, Mass.

CARDS (STEEL WIRE STRIPPER)

Watson, L. S. Mfg. Co., Leicester, Mass.

CARDS (WOOLEN & WORSTED)

American Card Clothing Co., Worcester, Mass.
Jefferson, Edw. & Bro., 127 S 2d, Phila., Pa.
Lees, Jas. & Sons Co., Bridgeport, Pa.
Lombard Machine Co., Worcester, Mass.
Riley, C. E. & Co. (Jno. Haigh & Sons, Ltd.),
65 Franklin, Boston, Mass.
Smith, Jas. Woolen Machinery Co., Philadel-
phia, Pa.
Smith & Furbush Machine Co. ("Furbush"),
Hancock & Somerset, Phila., Pa.
Speed & Stephenson (Henry Hirst & Sons,
Ltd.), 170 Summer, Boston, Mass.
Watson, L. S. Mfg. Co., Leicester, Mass.
Whittle, James H. ("Henderson's"), Worces-
ter, Mass.

CARPET MACHINERY

Altamus, Jacob K., 2816 N 4th, Phila., Pa.
Alvord, Clinton, 5 Summer, Worcester, Mass.
Butterworth, H. W. & Sons Co., 2415 E York,
Phila., Pa.
Crompton & Knowles Loom Works, Worcester,
Mass.
Curtis & Marble Machine Co., Worcester, Mass.
Diamond Textile Machine Works, 2d & Dia-
mond, Phila., Pa.
Howard Fdy. & Machine Works, Phila., Pa.
Jefferson, Edw. & Bro., 127 S 2d, Phila., Pa.
Parks & Woolson Mach. Co., Springfield, Vt.
Stoddard, Haserick, Richards & Co., 152 Con-
gress, Boston, Mass.

CARPET PRINTING MACHINES

Waldren, Jno. Co., New Brunswick, N. J.

CARPET ROLLING MACHINES

Altamus, Jacob K., 2816 N 4th, Phila., Pa.
Curtis & Marble Machine Co., Worcester, Mass.

CHENILLE MACHINES

Eppler, Jno. Mach. Wks., 629 Filbert, Phila.,
Pa.

CHINCHILLA MACHINES

Kenyon, D. R. & Son, Raritan, N. J.
Whittle, James H., Worcester, Mass.

CHROMING MACHINES

American Drying Machinery Co., 3301 N. 19th,
Phila., Pa.
Philadelphia Drying Machinery Co., 6721 Ger-
mantown av, Phila., Pa.

CLOGS (DYE HOUSE)

Wildman, Jos., 1940 N. Front, Phila., Pa.

CLOTH BOARDS

Cady, Geo. L. & Sons, Lowell, Mass.
Case Bros., Highland Pk., Conn.
Chaffee Bros. Co., Oxford, Mass.
Shryock, J. K., 19 S. 7th, Phila., Pa.
Thompson, Jas. A., Lowell, Mass.

CLOTH BRUSHING MACHINES

Ardey, S. B. & Sons, Bristol, Pa.
Birmingham Iron Fdy., Derby, Conn.
Butterworth, H. W. & Sons Co., Philadelphia,
Curtis & Marble Machine Co., Worcester, Mass.
Jones, Lewis, 60½ Media, Pa.
McCleary, Edw'd, Cohoes, N. Y.
Parks & Woolson Machine Co., Springfield, Vt.
Textile Finishing Machinery Co., 17 Exchange
pl, Providence, R. I.
Thayers, Ellis Son, Pawtucket, R. I.
Whittle, James H., Worcester, Mass.

CLOTH CALENDERING MACHINES

(See also Calendering Machines.)

Aiton Machine Co., Harrison, N. J., & 126
Liberty, New York
Arthur Co., 188 Front, New York
Butterworth, H. W. & Sons Co., Phila., Pa.
Curtis & Marble Machine Co., Worcester, Mass.
Dennis, Jno. Co., Lowell, Mass.
Kilburn, Lincoln & Co. (Inc.), Fall River, Mass.
Lowell Machine Shop, Lowell, Mass.
Poole Engineering & Machine Co., Woodberry
Station, Baltimore, Md.
Terhune, J. I., 164 Ward, Paterson, N. J.
Textile Finishing Machinery Co. (Pressure &
Friction), 17 Exch. pl., Providence, R. I.

CLOTH CUTTING MACHINES

CAMERON MACHINE CO., 61 Poplar,
Brooklyn, N. Y. (See adv. below)
Dennis, Jno. & Co., Lowell, Mass.

CLOTH EXPANDERS (MYCOCK'S)

Leyland, Thos. & Co., 53 India, Boston, Mass.

CLOTH FOLDING MACHINES

(See Folding Machines, Cloth.)

CLOTH INSPECTING MACHINES

Curtis & Marble Machine Co., Worcester, Mass.
Eddy, Geo. B., 395 Madison, N. Y.
Woonsocket Machine & Press Co., Woonsocket,
R. I.

CLOTH MEASURING MACHINES

Berlin Machine Works, Beloit, Wis., & 149
B'way, N. Y.
Butterworth, H. W. & Sons Co., Phila., Pa.
CAMERON MACHINE CO., 61 Poplar,
Brooklyn, N. Y. (See adv. below)
Curtis & Marble Machine Co., Worcester, Mass.
Eastwood, Benjamin, Paterson, N. J.
Elliott & Hall, Worcester, Mass.
Goodspeed Machine Co., Winchendon, Mass.
Parks & Woolson Machine Co., Springfield, Vt.
Poole Engineering & Machine Co., Woodberry
Station, Baltimore, Md.
Textile Finishing Machinery Co., 17 Exchange
pl, Providence, R. I.
Textile Machinery Works, Reading, Pa.
Voelker, Geo. W. & Co., Woonsocket, R. I.
Windle, J. E., 44 Vine, Worcester, Mass.

CLOTH PRESSING MACHINES.

Beach-Russ Co., Long Island City, N. Y.

CLOTH ROLLING MACHINES

Berlin Machine Works, 149 B'way, N. Y.
Butterworth, H. W. & Sons Co., Phila., Pa.
Curtis & Marble Mach. Co., Worcester, Mass.
Textile Finishing Machinery Co., 17 Exchange
pl, Providence, R. I.
Whittle, James H., Worcester, Mass.

CLOTH ROOM SEWING MACHINES

Singer Sewing Machine Co., 149 Broadway,
N. Y.

CLOTH STAMPING MACHINES

Lowell Machine Shop, Lowell, Mass.

Cutting Machines

"Every manufacturer has his own particular problems. If these problems are related to cloth cutting in any way, shape or form, we shall be glad to solve them."

—Cameron Machine Company

CAMERON MACHINE COMPANY

61 Poplar St.

BROOKLYN, N. Y.

MAKERS OF

CUTTING MACHINES

for General and Special requirements of Man-
ufacturers of Textile Fabrics, also Manufac-
turers of all kinds of articles made of cloth.

CLOTH STRETCHERS

Birch Bros., Somerville, Mass.
 Butterworth, W. H. & Sons Co., Phila., Pa.
 Luther, O. A. & Co., Pawtucket, R. I.
 Textile Finishing Machinery Co., 17 Exchange pl., Providence, R. I.
 Whittle, James H., Worcester, Mass.

COMBS, CIRCLES & FALLERS

Bagshaw, W. H. (Est. of), Lowell, Mass.
 Bradford Wool Comb Co., 2630 Mascher, Phila., Pa.
 Bragg, Jno. I., 24½ Atwood, Olneyville, R. I.
 Crabb, Wm. & Co., Newark, N. J.
 Crompton & Knowles Loom Works, Worcester, Mass.
 Hood, R. H., 1842 Gtn. av., Phila., Pa.
 Leigh, Evan Arthur, 232 Summer, Boston, Mass.
 Lowe, Stephen C. (Jno. Hetherington & Sons), 186 Devonshire, Boston, Mass.
 North Chelmsford Machine & Supply Co., North Chelmsford, Mass.
 Speed & Stephenson (F. H. Bentham's), 170 Summer, Boston, Mass.
 Stoddard, Haserick, Richards & Co., 152 Congress, Boston, Mass.
 Stott, Sam'l E. & T., Lowell, Mass.
 Townsend, Thomas, 157 Orange, Providence, R. I.
 Turner, J. S. Mfg. Co., 398 Middlesex, Lowell, Mass.
 Riley, C. E. & Co., 65 Franklin, Boston, Mass.

COMBS (COTTON)

Leigh, Evan Arthur, 232 Summer, Boston, Mass.
 Lowe, Stephen C., 186 Devonshire, Boston, Mass.
 Mason Machine Works, Taunton, Mass.
 Providence Machine Co., Providence, R. I.
 Stoddard, Haserick, Richards & Co., 152 Congress, Boston, Mass.
 Whitin Machine Works, Whitinsville, Mass.

COMBS (DOFFER)

Barker, James, 6th cor Cayuga, Phila., Pa.
 Firth, Wm. Co., 79 Milk, Boston, Mass.
 McCloud & Minter Co. (For. Woolen Cards), Worcester, Mass.
 Providence Machine Co., Providence, R. I.
 Smith, James, Woolen Machinery Co., Philadelphia, Pa.
 Smith & Furbush Machine Co. ("Furbush"), Phila., Pa.
 Speed & Stephenson, 170 Summer, Boston, Mass.
 Whittle, James H., Worcester, Mass.

COMBS (SLASHER)

American Supply Co., Providence, R. I.
 Emmons Loom & Harness Co., Lawrence, Mass.
 Fitzgerald Loom Reed Co., N 2d & Diamond, Phila., Pa.
 Gowdey, J. A. Reed & Harness Mfg. Co., Providence, R. I.
 Loom Reed & Harness Co., Charlotte, N. C.
 McGregor & Sons, Fall River, Mass.
 Southern Card Clothing & Reed Co., Charlotte, N. C.
 Textile Finishing Machinery Co., 17 Exchange pl., Providence, R. I.
 Walker Mfg. Co., 191 Berks, Phila., Pa.

COMBS (WEAVERS)

Sylvester, C. F. & Co., Fall River, Mass.

COMBS (WOOL)

Austin, M. E. & Co., Lawrence, Mass.
 Bagshaw, W. H. (Est. of), Lowell, Mass.
 Bradford Wool Comb Co., 2630 Mascher, Phila., Pa.
 Bragg, Jno. I., 24½ Atwood, Olneyville, R. I.
 Crompton & Knowles Loom Works, Worcester, Mass.
 Hood, R. H., 1842 Gtn. av., Phila., Pa.
 Lombard Machine Co., Worcester, Mass.
 Jefferson, Ed. & Bro., Phila., Pa.
 Leigh, Evan Arthur, 232 Summer, Boston, Mass.
 Miller, Wm., Providence, R. I.
 Riley, C. E. & Co., 67 Franklin, Boston, Mass.
 Stoddard, Haserick, Richards & Co., 152 Congress, Boston, Mass.
 Townsend, Thomas, 157 Orange, Providence, R. I.

COMPASS BOARDS

Crompton & Knowles Loom Works, Worcester, Mass.
 Royle, John & Sons, Paterson, N. J.

COMPELLATORS

Turner, J. S. Mfg. Co., 398 Middlesex, Lowell, Mass.

CONDENSERS

(See Index of Contents.)

CONE TUBES

(See Cop Tubes.)

***CONVEYING PIPE**

Whittle, James H., Worcester, Mass.

CONVEYORS (PNEUMATIC)

Buffalo Forge Co., Buffalo, N. Y.
 Green Fuel Economizer Co., Matteawan, N. Y.
 Kitson Machine Shop, Lowell, Mass.
 Schnitzler, Chas. H., 215 N. 2d, Phila., Pa.
 Sturtevant, B. F. Co., Hyde Park, Mass.

CONVEYORS (WASTE END)

New England Ventilating & Heat Co., Providence, R. I.
 Rushton-Carroll Co. ("Robinson & Conley's"), Olneyville, R. I.

COP SKEWERS

(See Skewers.)

COP TUBE MACHINERY

Eppler, Jno. Mach. Wks., 629 Filbert, Phila., Pa.

COP TUBES (PAPER)

Amraytoon Paper Tube Co., Lowell, Mass.
 Brown, Jas. Jr., Manayunk, Phila., Pa.
 Brown, J. E. & H. L., 101 Sabin, Providence, R. I.
 Douglas Mfg. Co., Fall River, Mass.
 Fraprie-Douglas Co., Fall River, Mass.
 Haworth & Watson, Lowell, Mass.
 Jacobs, A. L. & Co., 176 Federal, Boston, Mass.
 McCausland, Jno. E., Providence, R. I.
 Pairpoint Corporation, New Bedford, Mass.
 Sayford Paper Specialty Co., Camden, N. J.
 Taylor, Chas. F., 15 Custom, Providence, R. I.
 Textile Tube Co., Fall River, Mass.

COP TUBES (TIN)

Getchell, S. S. & Son, Woonsocket, R. I.

COP WINDERS

(See Winders, Cop.)

COPPER WORK (DYERS')

BADGER, E. B. & SONS CO., 75 Pitts, Boston, Mass. (See adv. index, end of book)
 Grebenzik, H. & Son, N. Paterson, N. J.
 North River Copper Works, 68 Hudson, Jersey City, N. J.
 Rome Metal Co., Rome, N. Y.
 Taunton-New Bedford Copper Co.
 Textile Finishing Machy. Co., Providence, R. I.
 Whittle, James H., Worcester, Mass.
 Wilson, D. H. & Co., 279 Dutton, Lowell, Mass.

CORDUROY CUTTING MACHINES

Firth, Wm. Co. (Cotton Cord & Velvet Cutting Machine Co.'s), 79 Milk, Boston, Mass.

COTTON BANDINGS

(See also Braided Banding.)

Am. Supply Co., Providence, R. I.
 Briggs, H. A. & Co., Pawtucket, R. I.
 Chase, F. A. & Co., Providence, R. I.
 Covel & Osborn Co., Fall River, Mass.
 Elder, Jas., 4711 Baird, Germantown, Phila., Pa.
 Hodson, John M., Manayunk, Phila., Pa.
 Hoffman-Corr Mfg. Co., 55 White, New York
 Hooper, Wm. E. & Sons, Baltimore, Md.
 Lees Mfg. Co., Westport, Conn.
 Russell Mfg. Co., Middletown, Conn.
 Small Bros., Fall River, Mass.

COTTON BATTING MACHINERY

Franklin Machinery Co., Providence, R. I.
 Smith, James Woolen Machinery Co., 411 Race, Phila., Pa.
 Smith & Furbush Machine Co. ("Furbush"), Phila., Pa.
 Whitin Machine Works, Whitinsville, Mass.

COTTON CORD CUTTING MACHINES

Firth, Wm. Co. (Cotton Cord & Velvet Cutting Machine Co.'s), 79 Milk, Boston, Mass.

COTTON MACHINERY

(See also the particular article required.)

Abbott, J. V. Mfg. Co., Dedham, Mass.
 Altemus, Jacob K., 2816 N 4th, Philadelphia, Pa.
 A. Leiton, A. T., Machine Co., Pawtucket, R. I.
 Brigham, Arthur A., 186 Devonshire, Boston, Mass.
 Brockway & Meckenstrum Mach. Co., Moodus, Conn.
 Brownell, G. L., 49 Union, Worcester, Mass.
 Butterworth, H. W. & Sons Co., Phila., Pa.
 Clark, J. Machy. Co. (Dealers), Lowell, Mass.
COHOES IRON FOUNDRY & MACHINE
 Co., Cohoes, N. Y. (See adv. index, end of book)
 Compton & Knowles Loom Works, Worcester, Mass.
 Curtis & Marble Machine Co., Worcester, Mass.
 Dana, Geo. R. (Dealers), Lowell, Mass.
 Diamond Textile Machine Works, 2d & Diamond, Phila., Pa.

Draper Co., Hopedale, Mass.
 Duckrow, R. A. (Dealer), Troy, N. Y.
 Easton & Burnham Machine Co., Pawtucket, R. I.
 Entwistle, T. C. Co., Lowell, Mass.
 Fales & Jenks Machine Co., Pawtucket, R. I.
 Fall River Foundry & Machine Co., Fall River, Mass.

Franklin Machine Co., Providence, R. I.
 Firth, Wm. Co. (Asa Lees & Co.'s), 79 Milk, Boston, Mass.

Hovard & Bullough American Machine Co., Ltd., Pawtucket, R. I.

Jefferson, Edw. & Bro., 127 S 2d, Phila., Pa.
 Hughes & Russum, Fkd., Phila., Pa.
 Kilburn, Lincoln & Co., Fall River, Mass.

Kitson Machine Co., Lowell, Mass.
 Leigh, Evan Arthur, 232 Summer, Boston, Mass.

Lowe, Stephen C., 186 Devonshire, Boston, Mass.
 Lowell Machine Shop, Lowell, Mass.

McKerrow, H. G. & Co., 31 State, Boston, Mass.

Nat'l Machy. Co. (Dealers), Providence, R. I.
 Parks & Woolson Mach. Co., Springfield, Vt.

Payne, Geo. W. Co., Pawtucket, R. I.
 Providence Mach. Co., Providence, R. I.
 Riley, C. E. & Co., 67 Franklin, Boston, Mass.

Saco & Pettie Machine Works, Newton Upper Falls, Mass.

Sargent's, C. G. Sons, Graniteville, Mass.
 Schofield, Geo. L., 123 N. Front, Phila., Pa.

Scott, Jas. (Dealer), 241 Chestnut Phila., Pa.
 Smith, Geo. E. (Dealers), Cohoes, N. Y.

Speed & Stephenson, 170 Summer, Boston, Mass.
 Stoddard, Haserick, Richards & Co., 152 Congress, Boston, Mass.

Universal Winding Co., 95 South, Boston, Mass.

Whitin Machine Works, Whitinsville, Mass.
 Whitinsville Spinning Ring Co., Whitinsville, Mass.

Woonsocket Mach. & Press Co., Woonsocket, R. I.

COTTON SOFTENERS

Arbol Mfg. Co., 155 William, N. Y.
 Draper, J. O. Co., Pawtucket, R. I.
 Bosson & Lane (Atlantic), Boston, Mass.
 Corey, S. J. Co., 273 Congress, Boston, Mass.
 Excelsior Wool Oil Compound Co., Cinn., O.
 Fox, Chas. J., 313 S Phillip, Phila., Pa.
 Holbrook Mfg. Co., 470 Wash'n, N. Y.
 Loos & Dilworth, 44 N Delaware av., Phila., Pa.
 Wilmington Oil Co. (Inc.), Wilmington, Del.
 Zurn, O. F. Co., 23 S 5th, Phila., Pa.

COTTON WASTE

(See Index of Contents.)

COUNTERS (SPINDLE SPEED)

Draper Co., Hopedale, Mass.

CRABBING MACHINES

Birch Bros., Somerville, Mass.
 Butterworth, H. W. & Sons Co., Phila., Pa.
 Hunter, Jas. Machine Co., N Adams, Mass.
 Textile Finishing Machinery Co., 17 Exchange pl., Providence, R. I.

CREELS

Diamond Textile Machine Works, 2d & Diamond, Phila., Pa.
 Lever, Oswald (Spool, for Warping Mill for Lace Looms), Lehigh & Mascher, Phila., Pa.
 Smith, Jas., Woolen Machinery Co., 411 Race, Phila., Pa.
 Smith & Furbush Machine Co. ("Furbush"), Phila., Pa.
 Speed & Stephenson, 170 Summer, Boston, Mass.

CREELS (DRESSER)

Whittle, James H. (Connor Patent), Worcester, Mass.

CROCHET MACHINES (RED BLANKET)

Merrow Machine Co., Hartford, Conn.

CROCHETING MACHINERY

Berlin Machine Works, 149 B'way, N. Y.
Merrow Machine Co., Hartford, Conn.
National Automatic Knitter Co., 728 Cherry, Phila., Pa.

CUFF MACHINES (FLAT RIBBED)

Pepper Mfg. Co., Lakeport, N. H.

CUT MARKERS

Butterworth, H. W. & Sons Co., Phila., Pa.
Draper Co., Hopedale, Mass.
Textile Finishing Machinery Co., 17 Exchange pl., Providence, R. I.

CUTTERS (AUTOMATIC PEG & LACE HOLE)

Boyle, John & Sons, Paterson, N. J.

CUTTERS (CARPET)

Teed Mfg. Co. (Foot & Belt Power), Springfield, Ohio

CUTTERS (CHENILLE)

Itemus, Jacob K., 2816 N 4th, Phila., Pa.
AMERON MACHINE CO., 61 Poplar, Brooklyn, N. Y. (See adv. on preceding page)
Ever, Oswald, Lehigh av & Mascher, Phila., Pa.

CUTTERS (CLOTH)

AMERON MACHINE CO., 61 Poplar, Brooklyn, N. Y. (See adv. on preceding page)
Eastman Machine Co., 45 N Division, Buffalo, N. Y.
Johnson, C. A. & Co., Providence, R. I.
Warth, A. (Est. of), Stapleton, S. I., New York

CUTTERS (COLLARETTE)

Johnston Machinery Co., Utica, N. Y.

CUTTERS (FLOCK)

Curtis & Marble Machine Co., Worcester, Mass.

CUTTERS (GUSSET)

Utica Novelty & Mill Specialty Co., Utica, N. Y.
Johnston Novelty & Mill Specialty Co., Utica, N. Y.

CUTTERS (KNIT FABRIC)

AMERON MACHINE CO., 61 Poplar, Brooklyn, N. Y. (See adv. on preceding page)

Kennedy, Thos. & Son, Cohoes, N. Y.
Langston, Sam'l M., 9th ab Market, Camden, N. J.

Parsons, Henry & Son, Marlboro, Mass.
Universal Cutter Co., 4565 Scott av., St. Louis, Mo.

Widman Mfg. Co. (Cloth also), Norristown, Pa.

CUTTERS (PLUSH)

AMERON MACHINE CO., 61 Poplar, Brooklyn, N. Y. (See adv. on preceding page)
Annis, Jno. & Co., Lowell, Mass.

CUTTERS (RAG)

Curtis & Marble Machine Co., Worcester, Mass.

CUTTERS (RIB)

Attie, Wm. & Son, Cohoes, N. Y.
AMERON MACHINE CO., 61 Poplar, Brooklyn, N. Y. (See adv. on preceding page)
Coper, Charles, Bennington, Vt.
Widman Mfg. Co., Norristown, Pa.

CUTTERS (VELVET)

AMERON MACHINE CO., 61 Poplar, Brooklyn, N. Y. (See adv. on preceding page)

CYLINDERS (KNITTING MACHINE)

Johnson Machine Co., 506 N. American, Phila., Pa.
Manton, H. & Co., 213 Race, Phila., Pa.
Cook, Stephen S., 624 Race, Phila., Pa.
Morton & O'Neil, 127 Broad, Phila., Pa.
Stefford & Holt, Little Falls, N. Y.

CYLINDERS (SLASHER)**COHOES IRON FOUNDRY & MACHINE Co.**, Cohoes, N. Y. (See adv. index, end of book)

Grebenski, H. & Son, N. Paterson, N. J.
Mullin, D. W. & Co., Lowell, Mass.
Whittle, James H. (Copper), Worcester, Mass.
Wilson, D. H. & Co., 279 Dutton, Lowell, Mass.

CYLINDERS (SPINNING)

Hill, Jas. Mfg. Co., Providence, R. I.
Whittle, James H. (Tin), Worcester, Mass.

CYLINDERS (TIN)

New England Ventilating & Heating Co., Providence, R. I.
Getchell, S. S. & Son, Woonsocket, R. I.

CYLINDERS & DIALS (FORGED STEEL)

Cook, Stephen S., 624 Race, Philadelphia, Pa.

CYLINDERS & DIALS (KNITTING MACHINE)

McMichael, A., 22 Armat, Phila., Pa.
Pearce, Geo. B. & Co., 2316 N 8th, Phila., Pa.

DAMPENING MACHINES

American Moistening Co., Equitable bldg, Boston, Mass.
Birch Bros., Somerville, Mass.
Curtis & Marble Machine Co., Worcester, Mass.

Kenyon, D. R. & Son, Raritan, N. J.
Textile Finishing Machinery Co., 17 Exchange pl., Providence, R. I.

DOBBIES

Atwood-Morrison Co., Stonington, Conn.
Crompton-Thayer Loom Co., Worcester, Mass.
Eastwood, Benjamin, Co. (Silk), Paterson, N. J.

Mason Machine Works, Taunton, Mass.
Paterson Machine Works, Paterson, N. J.
Royle, John & Sons, Paterson, N. J.
Stafford, Geo. W. Co., Readville, Mass.
Voelker, Geo. W. & Co., Woonsocket, R. I.

DOBBY CHAINS

Rice, H. P., Sutton, Mass.

DOUBLERS

Atherton Machine Co. (For Silk Mills), Paterson, N. J.
Atwood-Morrison Co. (Worsted), Stonington, Conn.
Curtis & Marble Machine Co., Worcester, Mass.
Eastwood, Benj. Co. (Silk), Paterson, N. J.
Paterson Machine Works, Paterson, N. J.
Textile Finishing Machinery Co., 17 Exchange pl., Providence, R. I.
Textile Machine Works, Reading, Pa.

DRESSERS (COTTON)

Whitin Machine Works, Whitinsville, Mass.
Whittle, James H., Worcester, Mass.

DRESSERS (THREAD)

Luther, C. A. & Co., Pawtucket, R. I.

DRESSERS (WARP)

Philadelphia Textile Machinery Co. ("Furbush"), Phila., Pa.
Smith, Jas., Woolen Machinery, 411 Race, Phila., Pa.
Smith & Furbush Machine Co., 17 Exchange pl., Providence, R. I.

DRESSERS (WOOL)

Butterworth, H. W. & Sons Co., Phila., Pa.

DRESSERS (YARN)

Franklin Machine Co., Providence, R. I.
Luther, C. A. & Co., Pawtucket, R. I.
Whittle, James H., Worcester, Mass.

DROP WIRES

Blackstone Reed & Harness Co., Pawtucket, R. I.
Brooks, M. S. & Sons, Chester, Conn.

DRY POLES (ENAMELED) FOR SILK DYERS

American Enamel Co., Providence, R. I.

DRYERS (CARPET)

Butterworth, W. H. & Sons Co., 2415 E York, Philadelphia, Pa.
Curtis & Marble Machine Co., Worcester, Mass.

DRYERS (CLOTH)

BARNEY VENTILATING FAN WORKS (A. B. Franklin, Prop.), 24 Binford, Boston, Mass. (See adv. at Fans)
Butterworth, H. W. & Sons Co., 2405 E York, Philadelphia, Pa.
GREEN FUEL ECONOMIZER CO., Matteawan, N. Y., & 1218 West Street bldg, New York. (See adv. index & branch offices, end of book)

Kenyon, D. R. & Son, Raritan, N. J.
Philadelphia Drying Machinery Co. ("Hurricane"), 6721 Germantown av, Phila., Pa.
Philadelphia Textile Machinery Co. ("Cycleclone"), Phila., Pa.
Sturtevant, B. F. Co., Hyde Park Mass.
Textile Finishing Machinery Co., 17 Exchange pl., Providence, R. I.
Whittle, James H. (of all widths), Worcester, Mass.

DRYERS (COTTON)

American Drying Machinery Co., Westmoreland, & P. & R. Ry., Phila., Pa.
Kitson Machine Shop (Raw Stock Cotton), Lowell, Mass.
Philadelphia Drying Machinery Co. ("Hurricane"), 6721 Germantown av, Phila., Pa.
Philadelphia Textile Machinery Co. ("Cycleclone"), Phila., Pa.
Salem Iron Works, Winston, Salem, N. C.
Sargent's, C. G. Sons, Westford, Mass.

DRYERS (HAIR)

Philadelphia Drying Machinery Co. ("Hurricane"), 6721 Germantown av, Phila., Pa.

DRYERS (HOT AIR APRON)

Smith, James Woolen Machinery Co., 411 Race, Philadelphia, Pa.

DRYERS (SKEIN)

Whittle, James H. (New Rotating), Worcester, Mass.

DRYERS (UNDERWEAR)

American Drying Machinery Co., Westmoreland & P. & R. Ry., Phila., Pa.
BARNEY VENTILATING FAN WORKS (A. B. Franklin, Prop.), 24 Binford, Boston, Mass. (See adv. at Fans)
GREEN FUEL ECONOMIZER CO., Matteawan, N. Y., & 1218 West Street bldg, New York. (See adv. index & branch offices, end of book)
Philadelphia Drying Machinery Co. ("Hurricane"), 6721 Germantown av, Phila., Pa.
Philadelphia Textile Machinery Co. ("Cycleclone"), Phila., Pa.
Salem Iron Works, Winston, Salem, N. C.
Sturtevant, B. F. Co., Hyde Park Mass.
Utica Novelty & Mill Specialties Co. (Knit Goods in the Roll), Utica, N. Y.

DRYERS (WARP)

Butterworth, H. W. & Sons Co., 2415 E York, Philadelphia, Pa.
Clark, George P., Windsor Locks, Conn.
Textile Finishing Machinery Co., 17 Exchange pl., Providence, R. I.

DRYERS (WIRE TOP)

Smith, James Woolen Machinery Co., 411 Race, Philadelphia, Pa.

DRYERS (WOOL)

American Blower Co., Detroit, Mich.
American Drying Machinery Co., Westmoreland, & P. & R. Ry., Phila., Pa.
ANDREWS & JOHNSON CO., 256 Wash'n blvd, Chicago, Ill. (See adv. index, end of book)

BARNEY VENTILATING FAN WORKS (A. B. Franklin, Prop.), 24 Binford, Boston, Mass. (See adv. at Fans)

GREEN FUEL ECONOMIZER CO., Matteawan, N. Y., & 1218 West Street bldg, New York. (See adv. index & branch offices, end of book)

Hunter, James, Machine Co. ("Stone"), N. Adams, Mass.

Kitson Machine Co., Lowell, Mass.
Lorimer, Jno. H., Walnut la., Gtn., Phila., Pa.

NATIONAL BLOWER WORKS, 17th & St. Paul av, Milwaukee, Wis. (See adv. index, end of book)
Philadelphia Drying Machinery Co. ("Hurricane"), 6721 Germantown av, Phila., Pa.
Philadelphia Textile Machinery Co. ("Cycleclone"), Phila., Pa.

Riley, C. E. & Co., 65 Franklin, Boston, Mass.
Sargent's, C. G. Sons, Westford, Mass.
Smith, James Woolen Machinery Co., Phila., Pa.
Sturtevant, B. F. Co., Hyde Park Mass.
Whittle, James H., Worcester, Mass.

DRYERS (YARN)

American Drying Machinery Co., Westmoreland, & P. & R. Ry., Phila., Pa.
Bailey, Frank (Hot & Cold Air), Cedar Brook, N. J.

BARNEY VENTILATING FAN WORKS
(A. B. Franklin, Prop.), 24 Binford, Boston, Mass. (See adv. at Fans)
Butterworth, H. W. & Sons Co., Philadelphia, Pa.

GREEN FUEL ECONOMIZER CO.
Matteawan, N. Y., & 1218 West Street bldg, New York. (See adv. index & branch offices, end of book)
Hopkins Machine Works (Inc.), Bridgeton, R. I.

Philadelphia Drying Machinery Co., 6721 Germantown av., Phila., Pa.
Philadelphia Textile Machinery Co., ("Cyclone"), Phila., Pa.
Sargent's, C. G. Sons, Westford, Mass.
Sturtevant, B. F. Co., Hyde Park Mass.

Vacuum Process Company, 5 State, Boston, Mass.
Whittle, James H., Worcester, Mass.

DRYING MACHINERY

(See Dryers, Various Kinds.)

DRYING MACHINES (PRINT WORK)

Butterworth, H. W. & Sons Co., 2415 E York, Philadelphia, Pa.
Textile Finishing Machinery Co., 17 Exch pl, Providence, R. I.

DUST COLLECTORS

(See Page 334)

DUSTERS (RAG)

Bagshaw, W. H. (Est. of), Lowell, Mass.
Gerry, Geo. & Son, Athol, Mass.
Kitson Machine Co., Lowell, Mass.
Sargent's, C. G. Sons, Westford, Mass.
Smith, James Woolen Machinery Co., Phila., Pa.
Whittle, James H., Worcester, Mass.

DUSTERS (WOOL & WASTE)

Curtis & Marble Machine Co., Worcester, Mass.
Gerry, Geo. & Son, Athol, Mass.
Hopkins Machine Works (Inc.), Bridgeton, R. I.
Hunter, Jas. Machine Co., North Adams, Mass.
Lahue, M. M. & Co., Lowell, Mass.
Lombard Machine Co., Worcester, Mass.
Sargent's, C. G. Sons, Westford, Mass.
Whittle, James H. (Improved with Fan), Worcester, Mass.

DYE BECKS

Butterworth, H. W. & Sons Co., 2415 E York, Philadelphia, Pa.
Watson Machine Co., Paterson, N. J.
Woonsocket Machine & Press Co., Woonsocket, R. I.

DYE KETTLES.

(See Copper Work for Dyers)

DYE STICKS

Bailey, Frank, Cedar Brook, N. J.

DYE TUBS

American Stave & Cooperage Co., 205 Charles, Boston, Mass.
Hopkins Machine Works (Inc.), Bridgeton, R. I.

Hunt, Rodney Machine Co., Orange, Mass.
STEARNS, A. T. LUMBER CO., Neponset, Boston, Mass. (See adv. index, end of book)

Terhune, J. I. (Fletcher's), 164 Ward, Paterson, N. J.
Woolford, G. Wood & Tank Mfg. Co., New Land Title bldg, Phila., Pa.

DYEING MACHINERY

Adams Laundry Machinery Co., Troy, N. Y.
American Drying Machinery Co. (Cloth), 3301 N 19th, Phila., Pa.
American Dyeing Machine Co., Camden, N. J.
Arlington Machine Works, Arlington, Mass.

Birch Bros., Somerville, Mass.

Bird, F. J., 132 Arch, Phila., Pa.
Butterworth, H. W. & Sons Co., 2415 E York, Philadelphia, Pa.

Church, Henry W., Lowell, Mass.
Corneli Stocking Corp., New Bedford, Mass.
Delahanty Dyeing Machine Co., Pittston, Pa.
Dubois, A. N., 2170 Sedgely av., Phila., Pa.
Entwistle, T. C., Lowell, Mass.
Fries, Jno. W., Winston, Salem, N. C.
Hart, Chas., Frankford, Phila., Pa.
Holyoke Machine Co., Holyoke, Mass.
Hopkins Machine Works (Inc.) (Piece), Bridgeton, R. I.

Howard Fdy. & Mach. Works, Lansdowne, Pa.
Kenyon, D. R. & Son, Raritan, N. J.
Klauder-Weldon Dyeing Machine Co., Amsterdam, N. Y.

Klein, Chas. C., 2850 N Marshall, Phila., Pa.
Klipstein, A. & Co. (Cohwen), 122 Pearl, New York

Leigh, E. A., 232 Summer, Boston, Mass.
Lorimer, Jno. H., Walnut la, Gtn., Phila., Pa.
Philadelphia Drying Machinery Co., 6721 Germantown av., Phila., Pa.

Phoenix Iron Works Corporation, Hartford, Conn.
Rothe, O. & P. Mfg. & Supply Co., Norristown, Pa.

Rushton-Carrol Co. (Bowers), Olneyville, R. I.
Salem Iron Works, Winston, Salem, N. C.
Sargent's, C. E. Sons, Westford, Mass.
Smith, Drum & Co., 2503 Coral, Phila., Pa.
Stoddard, Haserick, Richards & Co., 152 Congress, Boston, Mass.

Terhune, J. I., 164 Ward, Paterson, N. J.
Textile Finishing Machinery Co., 17 Exchange pl, Providence, R. I.
Vacuum Dyeing Machine Co., Chattanooga, Tenn.
Watson Machine Co., Paterson, N. J.
Waters, D. F., 55 Wister, Germantown, Pa.

DYEING MACHINES (SKEIN)

Riley, C. E. & Co., 65 Franklin, Boston, Mass.

ELEVATORS (COTTON)

American Blower Co., Detroit, Mich.
Buffalo Forge Co., Buffalo, N. Y.
Continental Gin Co. (Inc.) Birmingham, Ala., and Bridgewater, Mass.
Hersey Mfg. Co., 314 W 2d, S. Boston, Mass.
Jones, Dudley E. Co., Little Rock, Ark.

MORSE, WILLIAMS & CO., 32 S Broad, Philadelphia, Pa. (See adv. index, end of book)
Thomas-Fordyce Mfg. Co., Little Rock, Ark.

ELEVATORS (SPOOL)

Schnitzler, Charles H., 215 N 2d, Phila., Pa.

EMBROIDERY MACHINES

Ahlstrom, Q. P., 529 B'way, New York
Dubrow & Hearne Mfg. Co., 12 Wooster, New York
Home Embroidery Machine Co., Kansas City, Kan.
Parkes Machine Co., 286 Graham av, Brooklyn, N. Y.
Proctor & Teneriffe Lace Wheel Co., 757 B'way, New York

ENGRAVERS (COPPER ROLL)

Dunn Textile Engraving & Mfg. Co., Frankford, Phila., Pa.
Highland Engraving Co., 311 Boulevard, Pas-saic, N. J.
Hope, Jno. & Sons Engr. & Mfg. Co., Providence, R. I.

ENGRAVERS (TEXTILE PRINT ROLL)

Highland Engraving Co., 311 Boulevard, Pas-saic, N. J.

ENGRAVING MACHINES (PRINT WORKS)

Dunn Textile Engraving & Mfg. Co., Frankford, Phila., Pa.
Hope, John & Sons, Engraving & Manufacturing Co., Providence, R. I.

FABRIC PIN TICKET MACHINES

Automatic Pin Ticketing Machine Co., Dayton, Ohio
Saranac Machine Co. ("Advance" for Fab-rics), St. Joseph, Mich.

FANS (EXHAUST)

(See Page 420)

FEEDER CLUTCH ATTACHMENTS

Harwood, Geo. S. & Son, 53 State, Boston, Mass.

FEEDERS (AUTOMATIC SELF-WEIGHING SCALE)

Harwood, Geo. S. & Son ("Bramwell"), 53 State, Boston, Mass.
Smith, Jas. Woolen Machinery Co., 411 Race, Phila., Pa.

FEEDS OR FEEDERS

American Drying Machinery Co. ("Kershaw" web feed), Westmoreland & P. & R. R., Phila., Pa.

Brown Cotton Gin Co., New London, Conn.
Clark Machine & Fdy. Co. ("Bramwell"), Franklin, Mass.

Curtis & Marble Machine Co. (Picker & Card), Worcester, Mass.
Harwood, Geo. S. & Son ("Bramwell" & "Ap-erly"), 53 State, Boston, Mass.

Hunter, James Machine Co., N. Adams, Mass.
Nath'l Machy. Co., Providence, R. I.
Phila. Drying Machinery Co., Phila., Pa.

Sargent's, C. G. Sons, Westford, Mass.
Schofield, Wm. Co., Manayunk, Phila., Pa.
Smith, Jas., Woolen Machinery Co., 41 Race, Phila., Pa.

Smith & Furbush Machine Co., Phila., Pa.
Whittles, J. C., 86 Johnson av, Kearney, N. J.
Woonsocket Machine & Press Co., Woonsocket, R. I.

FELT MACHINERY.

Dennis, Jno. Co., Lowell, Mass.
Farrel Foundry & Machine Co., Ansonia, Conn.

FELTING MACHINES (COTTON)

Ivens, Wm. H. Sons Co., Trenton, N. J.

*FINISHING MACHINES (BANDAGE)

CAMERON MACHINE CO. (Surgeons' Bandage Cutting Machines), Brooklyn, N. Y. (See adv. index, end of book)

FINISHING MACHINES (CARPET)

Crompton & Knowles Loom Works, Worcester, Mass.
Curtis & Marble Machine Co., Worcester, Mass.
Parks & Woolson Mach. Co., Springfield, Vt.

FINISHING MACHINES (CLOTH)

Birch Bros., Somerville, Mass.
Butterworth, H. W. & Sons Co., 2415 E York, Phila., Pa.

CAMERON MACHINE CO. (Cloth Cut-ting, Folding & Measuring Machines), 61 Poplar, Brooklyn, N. Y. (See adv. index end of book)
Cavagnaro, Jno. J., 215 Centre, New York, N. Y.

Curtis & Marble Machine Co., Worcester, Mass.
Gessner, David, Worcester, Mass.

Palmer, I. E., Middletown, Conn.
Parks & Woolson Machine Co., Springfield, Vt.
Terhune, J. I., 164 Ward, Paterson, N. J.

Textile Finishing Machinery Co., 17 Exch. pl, Providence, R. I.
Textile Machine Works, Reading, Pa.
Whittle, Jas. H., Worcester, Mass.
Windle, J. E., Worcester, Mass.

FINISHING MACHINES (KNIT GOODS)

Am. Overedging & Seaming Machine Co., 543 E. 116th, New York
Arnold Sewing Machine Co., 216 High, New-ark, N. J.

Craw, J. W. Laundry Machinery Co., South Norwalk, Conn.
Excelsior Sewing Machine Co., 1216 Columbia av, Phila., Pa.

Grosser Knitting Machine Co., 260 W B'way, New York
Morrow Machine Co. (For all Kinds of Fab-rics), Hartford, Conn.

Nye & Fredrick Co., 606 Arch, Phila., Pa.
National Automatic Knitter Co., 728 Cherry, Phila., Pa.

Johnston Machy. Co., Utica, N. Y.
Union Special Machine Co., 75 E. Kenzie, Chicago, Ill.

Union Special Sewing Machine Co., 47 Leonard, N. Y.
Willcox & Gibbs Sewing Machine Co., 658 B'way, N. Y.

FINISHING MACHINES (RIBBON)

CAMERON MACHINE CO., 61 Poplar, Brooklyn, N. Y. (See adv. index, end of book)

FINISHING MACHINES (TAPE)

Textile Finishing Machinery Co., 17 Exchange pl, Providence, R. I.

FINISHING MACHINES (WOOL & WORSTED)

Butterworth, H. W., & Sons Co., 2415 E York, Phila., Pa.
Curtis & Marble Machine Co. (Also Cotton), Worcester, Mass.
Stoddard, Haserick, Richardson & Co., 152 Congress, Boston, Mass.
Textile Finishing Machinery Co., 17 Exchange pl, Providence, R. I.
Watson Machine Co., Paterson, N. J.
Whittle, James H., Worcester, Mass.

FLAX MACHINERY

Crabth, Wm. & Co., Newark, N. J.
Flrth, Wm. Co. (Mackie & Sons), 150 Devonshire, Boston, Mass.
Haskell-Dawes Machine Co., 176 Federal, Boston, Mass.
Eddy, W., Plow Co., Greenwich, N. Y.
Lelgh, Evan Arthur, 232 Summer, Boston, Mass.

FLEECING MACHINES

(See Napping Machines)

FLOCK CUTTERS

(See Cutters, Flock)

FLYERS

(See also Frames, Cotton, Fly.)

Baker Machine Corp'n, New Bedford, Mass.
Buckley's, B. Son, Paterson, N. J.
Hartson, L. M. Co. (Spinners), North Windham, Conn.
Hayer, Thos. & Son, Providence, R. I.
Hopkins Machine Works (Inc.), Bridgeton, R. I.
Merriman Flyer Works, 30 Island, Lawrence, Mass.
Providence Machine Co., Providence, R. I.
Riley, C. E. & Co., 65 Franklin, Boston, Mass.
Speed & Stephenson (Bavistow Bros.), 170 Summer, Boston, Mass.
Smith, J. A. V. Co., 65 Franklin, Boston, Mass.
Smith, J. A. V., Manchester, N. H.
Thurston, A. G. & Son, Fall River, Mass.
Ward & Vandergrift, Elmer, N. J.
Westcott, A. W., Hopedale, Mass.

FOLDING MACHINES (CLOTH)

CAMERON MACHINE CO., 61 Poplar, Brooklyn, N. Y. (See adv. index, end of book)

Curtis & Marble Machine Co., Worcester, Mass.
Elliot & Hall, 50 Hermon, Worcester, Mass.
Johnson, C. A., & Co., Providence, R. I.
Lowell Machine Shop, Lowell, Mass.
McCreary, Edw. M., Cohoes, N. Y.
Textile Finishing Machinery Co., 17 Exchange pl, Providence, R. I.
Windle, J. E., Worcester, Mass.
Woonsocket Machine & Press Co., Woonsocket, R. I.

FOLDING & CUTTING MACHINES (UNDERWEAR)

Goodwin, J. C., 2d & Diamond, Phila., Pa.

FOLDING & MEASURING MACHINES

CAMERON MACHINE CO. (Cloth), 61 Poplar, Brooklyn, N. Y. (See adv. index, end of book)
Curtis & Marble Machine Co., Worcester, Mass.
Elliot & Hall, 54 Hermon, Worcester, Mass.
Parks & Woolson Machine Co., Springfield, Vt.
Textile Finishing Machinery Co., 17 Exchange pl, Providence, R. I.

FRAMES (COTTON DRAWING)

Altamus, Jacob K., Phila., Pa.
Draper Co., Hopedale, Mass.
Fall River Foundry & Machine Co., Fall River, Mass.
Flrth, Wm. Co., 79 Milk, Boston, Mass.
Franklin Machine Co., Providence, R. I.
Howard & Bullough Am. Machine Co., Ltd., Pawtucket, R. I.
Lowell Machine Shop, Lowell, Mass.
McKerrow, H. G. & Co., 31 State, Boston, Mass.
Mason Machine Works, Taunton, Mass.
Providence Machine Co., Providence, R. I.
Saco & Pettie Machine Shops, Newton Upper Falls, Mass.
Whitin Machine Works, Whitinsville, Mass.

FRAMES (COTTON FLY)

Altamus, Jacob K., Phila., Pa.
Fall River Foundry & Machine Co., Fall River, Mass.
Lowell Machine Shops, Lowell, Mass.
Providence Mach. Co., Providence, R. I.
Saco & Pettie Machine Shops, Newton Upper Falls, Mass.
Stoddard, Haserick, Richards & Co., 152 Congress, Boston, Mass.
Watson, L. S. Mfg. Co., Paterson, N. J.
Whitin Machine Co., Whitinsville, Mass.
Woonsocket Machine & Press Co., Woonsocket, R. I.

FRAMES (GASSING)

Stoddard, Haserick, Richards & Co., 152 Congress, Boston, Mass.

FRAMES (HAND LACING)

Royle, John, & Sons, Paterson, N. J.

FRAMES (HARNESS)

Crompton & Knowles Loom Works, Worcester, Mass.
Brown Bros. Co., Providence, R. I.
Watson, L. S. Mfg. Co., Paterson, N. J.
Williams, J. H. Co., Utica, N. Y.

FRAMES (HEDDLE)

Walker Mfg. Co., 191 Zerkes, Phila., Pa.
Watson, L. S. Mfg. Co., Leicester, Mass.

FRAMES (INTERMEDIATE)

Howard & Bullough Am. Machine Co., Ltd., Pawtucket, R. I.
Saco & Pettie Machine Shops, Newton, Upper Falls, Mass.

FRAMES (JACK)

Howard & Bullough Am. Mach. Co., Ltd., Pawtucket, R. I.
Riley, C. E. & Co., 65 Franklin, Boston, Mass.

FRAMES (REDRAWING)

Atwood-Morrison Co., Stonington, Conn.

FRAMES (RING SPINNING)

Diamond Textile Machine Works, 2d & Diamond, Phila., Pa.
Fales & Jenks Machine Co., Pawtucket, R. I.
Fall River Foundry & Machine Co., Fall River, Mass.
Franklin Machine Co., Providence, R. I.
Lowell Machine Shop, Lowell, Mass.
Mason Machine Works, Taunton, Mass.
Providence Machine Co., Providence, R. I.
Saco & Pettie Machine Works, Newton Upper Falls, Mass.
Whitin Machine Works, Whitinsville, Mass.
Woonsocket Machine & Press Co., Woonsocket, R. I.

FRAMES (ROVING)

Diamond Textile Machine Works, 2d & Diamond, Phila., Pa.
Fall River Foundry & Machine Co., Fall River, Mass.
Firth, Wm. Co., 79 Milk, Boston, Mass.
Howard & Bullough Am. Mach. Co., Ltd., Pawtucket, R. I.
McKerrow, H. G. & Co., 31 State, Boston, Mass.
Providence Machine Co., Providence, R. I.
Riley, C. E., & Co., 65 Franklin, Boston, Mass.
Saco & Pettie Machine Works, Newton Upper Falls, Mass.
Speed & Stephenson, 179 Summer, Boston, Mass.

FRAMES (SLUBBING)

Diamond Textile Machine Works, 2d & Diamond, Phila., Pa.
Firth, Wm. Co., 79 Milk, Boston, Mass.
Howard & Bullough Am. Mach. Co., Ltd., Pawtucket, R. I.
Lowell Machine Shop, Lowell, Mass.
Providence Machine Co., Providence, R. I.
Saco & Pettie Machine Works, Newton Upper Falls, Mass.

FRAMES (SPINNING)

(See also Frames, Ring Spinning; also Frames, Wool Spinning; also Mules.)

Diamond Textile Machine Works, 2d & Diamond, Phila., Pa.
Fall River Foundry & Machine Co., Fall River, Mass.
Flaccus, C. L., 224 N 3d, Phila., Pa.
Howard & Bullough Am. Mach. Co., Ltd., Pawtucket, R. I.

Jefferson, Edw. & Bro., 127 S 2d, Phila., Pa.
Lowell Machine Shop, Lowell, Mass.
Mason Machine Works, Taunton, Mass.
Riley, C. E., & Co., 65 Franklin, Boston, Mass.
Saco & Pettie Machine Shops, Newton Upper Falls, Mass.
Whitin Machine Works, Whitinsville, Mass.

FRAMES (TWISTING)

(See Twisters.)

FRAMES (WOOL SPINNING)

(See also Mules.)

Diamond Textile Machine Works, 2d & Diamond, Phila., Pa.
Fall River Foundry & Machine Co., Fall River, Mass.
Flaccus, C. L., 224 N 3d, Phila., Pa.
Johnson & Bassett, Worcester, Mass.
Smith, Jas., Woolen Machinery Co., 411 Race, Phila., Pa.

FULLING MILLS

Hopkins Machine Works (Inc.), Bridgeton, R. I.
Hunt, Rodney Machine Co., Orange, Mass.
Hunter, James Machine Co., N Adams, Mass.
Kenyon, D. R. & Son, Raritan, N. Y.

GARNETT MACHINES

Smith, James Woolen Machinery Co., 411 Race, Philadelphia, Pa.
Smith & Furbush Machine Co. ("Proctor"), Hancock & Somersset, Phila., Pa.

GARNETT & CARD MACHINES (COMBINED)

Smith, James Woolen Machinery Co., 411 Race, Philadelphia, Pa.

GASSING MACHINES

Bingham, Arthur A., 186 Devonshire, Boston, Mass.

GAS SINGEING MACHINES

(See Singeing Machines.)

GIGS (TEASEL)

Curtis & Marble Machine Co. (Gessner Patent), Worcester, Mass.
Parks & Woolson Machine Co., Springfield, Vt.
Stoddard, Haserick, Richards & Co., 152 Congress, Boston, Mass.
Whittle, Jas. H., Worcester, Mass.

GILL SCREWS

Hood, R. H., 1842 Gtn av, Phila., Pa.

GILL & COMBING PINS

Stoddard, Haserick, Richards & Co., 152 Congress, Boston, Mass.

GILLS (PREPARING & FINISHING)

Atherton, A. T. Machine Co., Pawtucket, R. I.
Lowell Machine Shop, Lowell, Mass.
Riley, C. E., & Co., 65 Franklin, Boston, Mass.
Speed & Stephenson, 170 Summer, Boston, Mass.

GLASS RODS & BARS

Mitchell-Blissell Co. (Rods for Looms), 227 Fulton, New York

GUIDE WIRES

American Supply Co., 13 Eddy, Providence, R. I.
Blackstone Reed & Harness Co., Pawtucket, R. I.

Brooks, M. S., & Sons, Chester, Conn.
Jencks, E., Mfg. Co., Pawtucket, R. I.
Spencer Wire Co., Worcester, Mass.
Wire Goods Co., 20 Union, Worcester, Mass.

GUIDES (PORCELAIN & ENAMELED)

Mitchell-Blissell Co., 227 Fulton, New York

HACKLE PINS

Crabth, Wm. & Co., Newark, N. J.
Lydell, H. & Foulds, Manchester, Conn.

HACKLES

(See Combs, Circles & Fellers.)

HARNESS STRAPS

Chicago Raw Hide Mfg. Co., 75 E Ohio, Chicago, Ill.
Coupe, Wm. & Co., South Attleboro, Mass.
Jacobs, E. H. Mfg. Co., Danielsville, Conn.

HARNESS TWINE

Allen, J. & S. (Carpet Looms), Walpole, Mass.
 Ballou Yarn Co., Providence, R. I.
 Cranston Worsted Mills, Bristol, R. I.
 Eichmann & Sternberg, 530 B'way, New York.
 Fawcett, Hughes, 115 Franklin, New York.
 Hoffman-Corr Mfg. Co., 55 White, N. Y.
 Marshall & Co., Kearney, N. J.
 Moore, C. & Co., 500 Market, Phila., Pa.
 Morgan, E. A., 54 Franklin, N. Y.
 Whittier Mills, Springfield, Mass.
 Williams, J. H. Co., Utica, N. Y.

HARNESSES (LOOM)

Allentown Reed, Harness & Hill Supply Co., Allentown, Pa.
 American Supply Co., Providence, R. I.
 Andrews Loom Reed & Harness Co., Spartenburg, S. C.
 Blackstone Reed & Harness Co., Pawtucket, R. I.
 Carruthers, Robt., Lowell, Mass.
 Crabb, Wm. & Co., Newark, N. J.
 Emmons Loom & Harness Co., Lawrence, Mass.
 Excelsior Loom Reed Works, Pawtucket, R. I.
 Fowler, Henry C. Loom Harness Co., New Bedford, Mass.
 Gibbs Loom, Harness & Reed Co., Clinton, N. J.
 Hall, I. A. & Co., 30 Hamilton ave., Paterson, N. J.
 Harris, Geo. W., 199 Perkins, Lowell, Mass.
 Jeffrey, Henry, Loom Harness Co., Woonsocket, R. I.
 Loom Picker Co., Biddeford, Me.
 Paterson Reed & Harness Co., Paterson, N. J.
 Schaum & Uhlinger, N 2d & Glenwood av, Phila., Pa.
 Street, R. R. & Co., 184 Washington, Chicago, Ill.
 Ulrich & Co., Paterson, N. J.
 Walder, J., Paterson, N. J.
 Webster Loom Harness Co., Fall River, Mass.
 Wilkins, F. B. & Co., Woonsocket, R. I.
 Williams, J. H. Co., Fall River, Mass.

HECK STANDS

Smith & Furbush Machine Co. ("Furbush"), Phila., Pa.

HEDDLES

American Supply Co., Providence, R. I.
 Benazet Heddle Co. (Ltd.), Darby, Pa.
 Carruthers, Robt., Lowell, Mass.
 Emmons Loom Harness Co., Lawrence, Mass.
 Flirth, Wm. Co. (R. Center Flis), 179 Milk, Boston, Mass.
 Hall, I. A. & Co., 30 Hamilton av, Paterson, N. J.
 Harris, Geo. W., 199 Perkins, Lowell, Mass.
 Howard Bros. Mfg. Co., 42 Vine, Worcester, Mass.
 Schaum & Uhlinger, N 2d st & Glenwood av, Phila., Pa.
 Steel Heddle Mfg. Co., 1840 Gtn, Phila., Pa.
 Walder, J., Paterson, N. J.
 Walker Mfg. Co., 191 Berks, Phila., Pa.
 Watson, L. S. Mfg. Co., Leicester, Mass.
 Williams, J. H. Co., Utica, N. Y.

HEDDLES (BRAIDED)

Emmons Loom & Harness Co. ("Thibaud's"), Lawrence, Mass.
 Hall, I. A. & Co., 30 Hamilton av, Paterson, N. J.

HEDDLES (JACQUARD)

American Supply Co., Providence, R. I.

HEDDLES (STEEL)

Parkinson, E. Co. (Imported), Sarpuville, Mass.
 Steel Heddle Mfg. Co., 1842 Gtn, Phila., Pa.

HEDDLES (WIRE)

Billington, Jos. H. Co., 113 Chestnut, Phila., Pa.
 Bull, Wm. C., Bennington, Vt.
 Clase, F. A. & Co., Providence, R. I.
 Gibbs Loom Harness & Reed Co. ("Tempered Steel"), Clinton, Mass.
 Howard Bros. Mfg. Co. (Also Twin Wire German Heddles), 42 Vine, Worcester, Mass.
 Watson, L. S. Mfg. Co. (German Tinned Wire), Leicester, Mass.

HOODS (SLASHER)

New England Ventilating & Heating Co., Providence, R. I.

HOOKS (REED)

Ferrari Bros. Co., Paterson, N. J.
 New England Specialty Co., North Easton, Mass.

HOSIERY BANDS & LABELS

Albright & Shenton, Reading, Pa.
 Bray, J., 2045 E Fletcher, Phila., Pa.
 Novelty Printing Co. (Inc.), 2041 E Susquehanna av, Phila., Pa.
 Reis, G. & Bro., 640 B'way, New York

HOSIERY BOARDS

Bull, Wm. C., Bennington, Vt.
 Clarke, Geo. H. & Co., Meredith, N. H.
 Pearson, Jos. T., 1815 E Boston av, Kensington, Phila., Pa.
 Thalheimer, A. Mfg. Co., Reading, Pa.
 Wisconsin Textile Mfg. Co., Two Rivers, Wis.

HOSIERY MACHINES

(See Knitting Machines, Hosiery.)

HOSIERY STRIPING ATTACHMENTS

Am. Knitting Machine Co., 56 N 6th, Phila., Pa.

HUMIDIFYING APPARATUS

(See also Moistening Apparatus, Air.)

American Moistening Co., Equitable bldg, Boston, Mass.
 Bell Pure Air & Cooling Co., 97 Cedar, New York
 Buffalo Forge Co., Buffalo, N. Y.
 Ccburn, Fred S., Woonsocket, R. I.
 Globe Moistening Co. ("Clarkson's"), Fall River, Mass.
 GREEN FUEL ECONOMIZER CO., Matteawan, N. Y., & 1218 West st. bldg, New York. (See adv. index & branch offices, end of book)

New England Ventilating & Heating Co., Providence, R. I.
 Schutte & Koerting (For Spinning Mills, Tobacco Factories, etc.), 1251 N 12th, Phila., Pa.
 Sturtevant, B. F. Co., Hyde Park, Mass. (For branch offices, see end of book)

HYDRO-EXTRACTOR GUARDS

Johnston Machinery Co., Utica, N. Y.
 Utica Novelty & Mill Specialty Co., Utica, N. Y.

HYDRO-EXTRACTORS

American Tool & Machine Co., 109 Beach, Boston, Mass.
 Bird, F. J. ("Little Giant"), 132 Arch, Phila., Pa.
 Curtis & Marble Machine Co. (Horizontal), Worcester, Mass.
 Empire Laundry Machinery Co., Boston, Mass.
 Hagen, A. T. Co., Rochester, N. Y., & 26 S Clinton, Chicago, Ill.
 Riley, C. E. & Co., 65 Franklin (Sole agts. for Thos. Broadhurst & Sons' Patent Suspended Steam Driven), Boston, Mass.
 Salem Iron Works, Winston-Salem, N. C.
 Textile Finishing Machinery Co., 17 Exchange pl, Providence, R. I.
 Tolhurst Machine Works, Troy, N. Y.
 Troy Laundry Machinery Co., Troy, N. Y.
 Whittle, James H., Worcester, Mass.

INDIGO MILLS

Humphrey Machine Co., Keene, N. H.
 Lord, Bowler & Co., 33 Center, Cleveland, O.
 Lowell Machine Shop, Lowell, Mass.
 Textile Finishing Machinery Co., 17 Exch. pl, Providence, R. I.
 Townsend Furnace & Machine Shop, Albany, N. Y.

JACK HOOKS

Brooks, M. S., & Sons, Chester, Conn.

JIGGERS

Butterworth, H. W. & Sons Co., 2415 E York, Phila., Pa.
 Kenyon, D. R. & Son, Raritan, N. J.
 Mackenzie, Duncan & Sons, Trenton, N. J.
 Terhune, J. I., 164 Ward, Paterson, N. J.
 Textile Finishing Machinery Co., 17 Exch. pl, Providence, R. I.
 Watson Machine Co., Paterson, N. J.

JUTE MACHINERY

(See also Spinning Machinery, Jute.)

Haskell-Dawes Machine Co., 176 Federal, Boston, Mass.
 Todd, Jos. O. (Est. of), 203 B'way, New York, & Paterson, N. J.

KIERS (BLEACHING)

Rothe, O. & P. Mfg. & Supply Co. (Ltd.), Norristown, Pa.

KNIT FABRIC SLITTERS & REWINDERS

Langston, Samuel M., Camden, N. J.

KNITTING MACHINE ATTACHMENTS

Branson Machine Co., 504 N. American, Phila., Pa.
 Cooper, Chas., Bennington, Vt.
 Sweet & Doyle, Cohoes, N. Y.

KNITTING MACHINERY

Adams, Geo. H. & Co., Hill, N. H.
 Ainslie Knitting Machine Co., Ainslie & Humboldt, Brooklyn, N. Y.
 American Knitting Machine Co., 56 N 6th, Phila., Pa.
 American Machine Works, 420 Samson, Phila., Pa.
 American Twist Drill Co., Laconia, N. H.
 Ardrey, S. B. & Sons, Bristol, Pa.
 Beattie, Wm. & Son, Cohoes, N. Y.
 Boss Knitting Machine Works, Reading, Pa.
 Branson Machine Co., 506 N American, Phila., Pa.
 Brenner, Jos., N 2d cor Diamond, Phila., Pa.
 Brinton, H. & Co. (Seamless Ribbed Machines for all kinds of Hosiery and Underwear), 213 Race, Phila., Pa.
 Burson Mfg. Co., Rockford, Ill.
 Central Knitting Co. (Sweaters & Jackets), 780 Madison, Brooklyn, N. Y.
 Campbell & Clute, Cohoes, N. Y.
 Cook, Stephen S., 624 Race, Phila., Pa.
 Cooper, Chas. (Automatic), Bennington, Vt., & Amsterdam, N. Y.
 Crane Bros., Westfield, Mass.
 Crane Mfg. Co., Lakeport, N. H.
 Crawford Mfg. Co., New Brunswick, N. J.
 Eckersley & Kershaw, 214 W Dauphin, Phila., Pa.
 Eppler, Jno. Mach Works, 629 Filbert, Philadelphia, Pa.
 Excelsior Knitting Mach. Mfg. Co., Allentown, Pa.
 Fisher Knitting Machine Co., Utica, N. Y.
 Flexible Machine Works (Inc.), Reading, Pa.
 Gearhart, Jos. E. & Son, Clearfield, Pa.
 Gormley, Robt. W. & Co., Troy, N. Y.
 Grosser Knitting Machine Co., 260 W B'way, New York
 Hemphill Machine Co., Pawtucket, R. I.
 Hepworth, Jno. W. & Co., Lehigh av & Memphis, Phila., Pa.
 Hodgson, E. A., Laconia, N. H.
 Huse, Warren D. & Sons, Lakeport, N. H.
 Ives, Loyal T., New Brunswick, N. J.
 Jenckes, E. Mfg. Co. (Invincible Automatic Hosiery), Pawtucket, R. I.
 Jones, Lewis, 60 1/2 Media, Phila., Pa.
 Kennedy, Thos., Cohoes, N. Y.
 Keystone Knitter & Needle Co., 2600 N 6th, Phila., Pa.
 Kilbourn Knitting Machine Co., New Brunswick, N. J.
 Koch, Edw. W., Bourse bldg, Phila., Pa.
 Lamb Knitting Machine Co., Chicopee Falls, Mass.
 Leighton Machine Co., Manchester, N. H.
 Lindley, Geo. W., Germantown, Pa.
 Ludwig, E. H. (importer of), Hawley, Pa.
 McMichael, A., Philadelphia, Pa.
 Mayo, Geo. D. Machine Co. (Automatic), Laconia, N. H.
 Mayo Knitting Machine & Needle Co. ("Hemphill," "Acme"), Franklin Falls, N. H.
 Merrow Machine Co., 28 Lanrel, Hartford, Conn.
 National Automatic Knitter Co., 728 Cherry, Philadelphia, Pa.
 Nye & Tredick Co., 606 Arch, Phila., Pa.
 Paxton & O'Neil, 127 Broad, Phila., Pa.
 Pearce, Geo. B. & Co., 2316 N 8th, Phila., Pa.
 Pearson, W. H. & Sons, Lowell, Mass.
 Pepper Mfg. Co., Lakeport, N. H.
 Richter, Wolfgang, 3d & Green, Philadelphia, Pa.
 Ruth Automatic Knitting Machine Co., York, Pa.
 Scott & Williams, 2079 E Cumberland, Phila., Pa.
 Snyder, Homer P. Mfg. Co., Little Falls, N. Y.
 Stafford & Holt, Little Falls, N. Y.
 Standard Machine Co., 917 Arch, Phila., Pa.
 Steber, B. T., 9 Charlotte, Utica, N. Y.
 Taylor, James, 835 Arch, Phila., Pa.
 Textile Machine Works (Inc.), Reading, Pa.
 Tiffany Bros., Bennington, Vt.
 Tompkins Bros. Co., Troy, N. Y.
 Trump Bros. Machine Co. (Hosiery & Underwear), Wilmington, Del.
 Walther, Otho, Bourse bldg., Phila., Pa.
 Wilcomb Machine Co. (Inc.), Norristown, Pa.
 Wildman Mfg. Co., Norristown, Pa.

KNITTING MACHINES (BALMORAL)

Cooper, Chas., Bennington, Vt.

KNITTING MACHINES (CARDIGAN JACKET)

Lamb Knitting Machine Co., Chicopee Falls, Mass.

KNITTING MACHINES (CIRCULAR)

Crane Bros., Westfield, Mass.
 Crane Mfg. Co., Lakeport, N. H.
 Leighton Machine Co., Manchester, N. H.
 Nye & Tredick Co., 606 Arch, Phila., Pa.
 Wildman Mfg. Co., Norristown, Pa.

KNITTING MACHINES (FAMILY)

Gearhart, Jos. E., Clearfield, Pa.

KNITTING MACHINES (HAND)

Branson Machine Co. (Power & Automatic), 506 N American, Philadelphia, Pa.

KNITTING MACHINES (HOSIERY)

Branson Machine Co. ("Branson" Hand Power & Automatic), 508 N American, Phila., Pa.
 Brinton, H. & Co. (Ribbed & Seamless), 213 Race, Phila., Pa.
 Cooper, Chas., Bennington, Vt.
 Jenckes, E. Mfg. Co. (Invincible Automatic), Pawtucket, R. I.
 Lamb Knitting Machine Co., Chicopee Falls, Mass.
 Leighton Machine Co., Manchester, N. H.
 Mayo Knitting Machine & Needle Co., Franklin, N. H.
 Nye & Tredick, 606 Arch, Phila., Pa.
 Pearce, Geo. B. & Co., 2316 N Sth. Phila., Pa.
 Scott & Williams, 2079 E Cumberland, Phila., Pa.
 Standard Machine Co., 508 Ludlow, Phila., Pa.
 Taylor, James, 835 Arch, Philadelphia, Pa.
 Trump Bros. Machine Co., Wilmington, Del.

KNITTING MACHINES (RIB)

Brinton, H. & Co. (For Hosiery & Underwear), 213 Race, Phila., Pa.
 Champion Machine Co., Philadelphia, Pa.
 Cooper, Chas. (Automatic), Bennington, Vt.
 Huse, Warren D. & Sons, Laconia, N. H.
 Nye & Tredick Co. ("Automatic" Circular), 606 Arch, Phila., Pa.
 Ruth & Co., Norristown, Pa.
 Ruth Machine Co., York, Pa.
 Scott & Williams (for Underwear, etc.), 2079 E Cumberland, Phila., Pa.
 Snyder, Homer P. Mfg. Co., Little Falls, N. Y.
 Stafford & Holt, Little Falls, N. Y.
 Wildman Mfg. Co. (Circular), Norristown, Pa.

KNITTING MACHINES (SEAMLESS)

American Knitting Machine Co., 56 N 6th, Phila., Pa.
 Boss Knitting Machine Works, Reading, Pa.
 Brinton, H. & Co. (For Hosiery & Underwear), 213 Race, Phila., Pa.
 Mayo Knitting Machine & Needle Co. ("Acme" & "Hemphill"), Franklin Falls, N. H.
 Scott & Williams (Automatic Hosiery), 2079 E Cumberland, Phila., Pa.
 Trump Bros. Machine Co., Wilmington, Del.

KNITTING MILL SUPPLIES

Sweet & Doyle, Cohoes, N. Y.

KNIVES (TEXTILE)

(See Page 628)

KNOTTERS (SPOOLER)

Barber & Colman, 77 Washington, Boston, Mass.

LABELING MACHINES

Automatic Pin Ticketing Machine Co., Dayton, Ohio
 Beck, Chas. Paper Co., 609 Chestnut, Phila., Pa.
 F. & G. Novelty Co., 467 B'way, N. Y.
 Saranac Electrical Mfg. Co., St. Joseph, Mich.

LABELS (UNDERWEAR)

Jacobs, J. L. & M. Co., Elm sq bldg, New York

LACE MACHINES

Chauvet & Clouter, 247 Centre, New York
 Lever, Oswald, Lehigh av c Mascher, Phila., Pa.
 Lynwood Mfg. Co. (Ribbers), 2d & Westmoreland, Phila., Pa.

Sheppard, Jno. P., Salem, N. J.
 Textile Finishing Machinery Co. (Bleaching & Finishing), 17 Exchange pl, Providence, R. I.

LACERS (AUTOMATIC LOCK & LOOP STITCH)

Royle, John, & Sons, Paterson, N. J.

LAPPERS

(See Openers & Lappers, Cotton.)

LAUNDRY MACHINERY

(See Index of Contents.)

LEASE RODS

American Enamel Co. (Enameled), Neville, Providence, R. I.
 Berry & Johnston, 209 Bedford, Fall River, Mass.
 Southern Bobbin Co. (Enameled), Greensboro, N. C.

LEATHERS (LACE)

Coupe, Wm. & Co. ("Excelsior" Rawhide), S. Attleboro, Mass.

LIFTING ROD CLEANERS

Draper Co. ("Shaw & Flinn's"), Hopedale, Mass.

LOOM ATTACHMENTS

American Textile Specialty Co., 143d & Rider av, New York
 Asala Co., 415 B'way, N. Y.
 Beamen & Smith, Providence, R. I.
 Brown Bros. Co., Providence, R. I.
 Crompton & Knowles Loom Works, Worcester, Mass.
 Eastwood, Benjamin Co., Paterson, N. J.
 Lahue, M. M. & Co., 107 Cushing, Lowell, Mass.
 Stafford, Geo. W. Co., Readville, Mass.

LOOM CRANK SHAFTS

Babbitt Bros., Fairhaven, Mass.
 Fall River Foundry & Machine Co., Fall River, Mass.

LOOM FORKS

Brown Bros. Co., Providence, R. I.
 Clegg Weft-Fork Co., 83 Main, Fall River, Mass.
 English, C. R. Co., 204 Summer, Boston, Mass.
 Non-Rebounding Loom Fork Co., Fall River, Mass.

LOOM HARNESES

(See Harnesses, Looms.)

LOOM KNIVES

COES, LORING & CO. (Inc.), Worcester, Mass. (See adv. index, end of book)

LOOM LINGOES

Hall, I. A. & Co., Paterson, N. J.

LOOM PICKERS

(See Pickers, Loom.)

***LOOM REPAIRS**

COHOES IRON FOUNDRY & MACHINE Co. ("Empire"), Cohoes, N. Y. (See adv. index, end of book)

LOOM STRAPPING

Abbott, J. V. Mfg. Co., Dedham, Mass.
 American Supply Co., Providence, R. I.
 Barker Bros., Norristown, Pa.
 Barlow, John W. Co., Lawrence, Mass.
 Brown Bros. Co., Providence, R. I.
 Chicago Rawhide Mfg. Co., 75 E Ohio, Chicago, Ill.
 Coupe, Wm., & Co., So. Attleboro, Mass.
 Graton & Knight Mfg. Co., Worcester, Mass.
 Helvetia Leather Co., Lancaster, Pa.
 Jacobs, E. H. Mfg. Co., Danielson, Conn.
 Kelton-Bruce Mfg. Co. (Rawhide), Salem, Mass.
 Lahue, M. M. & Co. (Steel Lug Straps & Friction Bands for Warp Beams), Lowell, Mass.
 Loom Picker Co., Biddeford, Me.
 Milliken, W. & Son, Franklin, Mass.

New England Specialty Co., North Easton, Mass.
 Page Belting Co., Concord, N. H.
 Providence Belting Co., 25 Charles, Providence, R. I.
 Weatherhead, Thompson & Co., Pawtucket, R. I.
 Whiting, Henry F., Lowell, Mass.

LOOM TEMPLES

Crompton & Knowles Loom Works, Worcester, Mass.
 Draper Co., Hopedale, Mass.
 Stoddard, Haserick, Richards & Co., 152 Congress, Boston, Mass.

LOOM WEBS

(See also Webbing, Elastic.)

Ansonia, O. & C. Co., Ansonia, Conn.
 Connecticut Web Co., Bridgeport, Conn.

LOOMS

Alvord, Clinton, 5 Summer, Worcester, Mass.
 Amadon, S. B., Staffordville, Conn.
 American Loom Co., Readville, Mass.
 Crompton & Knowles Loom Works, Worcester, Mass.
 Draper Co., Hopedale, Mass.
 Eastwood, Benj. Co., Paterson, N. J.
 Hughes & Russum (all kinds), Fkd., Phila., Pa.
 Insinger Co., Stenton av. above Wayne Junc., Phila., Pa.
 Jackson, James & Son (Inc.), Paterson, N. J.
 Jefferson, Edw. & Bro., 127 S 2d, Phila., Pa.
 Kilburn, Lincoln & Co., Fall River, Mass.
 Klein, Charles C., 2850 N Marshall, Phila., Pa.
 Leigh, Evan Arthur, 232 Summer, Boston, Mass.
 Lowell Machine Shop, Lowell, Mass.
 Lyall, J. & W., Passaic, N. J.
 Mason Machine Works, Taunton, Mass.
 Mutual Machine Works, Frankford, Phila., Pa.
 Schaum & Uhlinger, No. Penn Junction, Phila., Pa.
 Smith, H. B. Machine Co., Smithville, N. J., & 121 Liberty, New York, N. Y.
 Stafford, Geo. W. Co., Readville, Mass.
 Stoddard, Haserick, Richards & Co., 152 Congress, Boston, Mass.
 Voelmy Bros., 507 W 30th, N. Y.
 Whitin Machine Works, Whitinsville, Mass.
 Widmer Bros., 108 N 7th, Paterson, N. J.

LOOMS (AXMINSTER)

Crompton & Knowles Loom Works, Worcester, Mass.
 Whitin Machine Works, Whitinsville, Mass.

LOOMS (BAG)

Crompton & Knowles Loom Works, Worcester, Mass.

LOOMS (BROAD)

Draper Co., Hopedale, Mass.
 Eastwood, Benj. Co., Paterson, N. J.
 Lees, James & Sons Co., Bridgeport, Pa.
 Mutual Machine Works, Frankford, Phila., Pa.
 Paterson Machine Works, 46 Warren, Paterson, N. J.

LOOMS (CARPET)

Crompton & Knowles Loom Works, Worcester, Mass.
 Leigh, Evan Arthur, 232 Summer, Boston, Mass.
 Lyall, J. & W., 83 Leonard, New York.
 Smith, H. B. Machine Co., Smithville, N. J., & 121 Liberty, New York
 Stoddard, Haserick, Richards & Co., 152 Congress, Boston, Mass.

LOOMS (CASSIMERE)

Crompton & Knowles Loom Works, Worcester, Mass.
 Woonsocket Machine & Press Co., Woonsocket, R. I.

LOOMS (COTTON)

Crompton & Knowles Loom Works, Worcester, Mass.
 Draper Co., Hopedale, Mass.
 Fall River Foundry & Machine Co., Fall River, Mass.
 Hughes & Russum, Frankford, Phila., Pa.
 Kilburn, Lincoln & Co., Inc., Fall River, Mass.
 Leigh, Evan Arthur, 232 Summer, Boston, Mass.
 Lowell Machine Shops, Lowell, Mass.
 Mason Machine Works, Taunton, Mass.
 Mutual Machine Works, Frankford, Phila., Pa.
 Schaum & Uhlinger, N 2d & Glenwood av, Philadelphia, Pa.
 Smith, H. B. Machine Co., Smithville, N. J., & 121 Liberty, New York, N. Y.
 Stafford, Geo. W. Co., Readville, Mass.
 Whitin Machine Works, Whitinsville, Mass.
 Woonsocket Machine & Press Co., Woonsocket, R. I.

LOOMS (COTTON DUCK)

Lowell Machine Shop, Lowell, Mass.
Mutual Machine Works, Frankford, Phila., Pa.
Poole Engineering & Machine Co., Woodberry Station, Baltimore, Md.

LOOMS (CURTAIN)

Crompton & Knowles Loom Works, Worcester, Mass.

LOOMS (DRESS GOODS)

Crompton & Knowles Loom Works, Worcester, Mass.

LOOMS (EMBROIDERY)

Walther, Otto (Mfrs.' Agent), Bourse bldg, Phila., Pa.

LOOMS (FANCY)

Crompton & Knowles Loom Works, Worcester, Mass.

Hughes & Russum, Fkd., Phila., Pa.
Eastwood, Benj. Co., Inc., Fall River, Mass.
Mason Machine Works, Taunton, Mass.
Stafford, Geo. W. Co., Readville, Mass.
Stoddard, Haserick, Richards & Co., 152 Congress, Boston, Mass.

LOOMS (FELTING)

Crompton & Knowles Loom Works, Worcester, Mass.

LOOMS (GINGHAM)

Crompton & Knowles Loom Works, Worcester, Mass.
Draper Co., Hopedale, Mass.

LOOMS (GORING)

Crompton & Knowles Loom Works, Worcester, Mass.

LOOMS (JACQUARD)

Crompton & Knowles Loom Works, Worcester, Mass.
Eastwood, Benj. Co., Paterson, N. J.
Halton's, Thos. Sons, Phila., Pa.
Jackson, James & Sons, Inc., Paterson, N. J.
Mutual Machine Works, Frankford, Phila., Pa.

LOOMS (JEAN)

Crompton & Knowles Loom Works, Worcester, Mass.

LOOMS (JUTE CARPET)

Crompton & Knowles Loom Works, Worcester, Mass.

LOOMS (PILE FABRIC)

Klein, Chas. C., 2850 N Marshall, Phila., Pa.

LOOMS (PLUSH)

Crompton & Knowles Loom Works, Worcester, Mass.
Mutual Machine Works, Frankford, Phila., Pa.

LOOMS (RIBBON)

Crompton & Knowles Loom Works, Worcester, Mass.
Schaum & Uhlinger, N 2d & Glenwood av, Widmer Bros., Paterson, N. J. Phila., Pa.

LOOMS (RUG)

Crompton & Knowles Loom Works, Worcester, Mass.
Reed Mfg. Co., Springfield, O.

LOOMS (SILK)

Crompton & Knowles Loom Works, Worcester, Mass.
Eastwood, Benj., Co., Paterson, N. J.
Hughes & Russum, Fkd., Phila., Pa.
Kilburn, Lincoln & Co., Inc., Fall River, Mass.
Mason Machine Works, Taunton, Mass.
Paterson Machine Works, Paterson, N. J.
Royle, John & Sons ("Delaske"), Paterson, N. J.
Stafford, Geo. W. Co., Readville, Mass.

LOOMS (SUSPENDER)

Atherton Machine Co., Paterson, N. J.
Crompton & Knowles Loom Works, Worcester, Mass.
Schaum & Uhlinger, N 2d & Glenwood av,

LOOMS (UPHOLSTERY)

Crompton & Knowles Loom Works, Worcester, Mass.

LOOMS (VELVET)

Crompton & Knowles Loom Works, Worcester, Mass.

LOOMS (WEBBING)

Atherton Machine Co., Paterson, N. J.
Crompton & Knowles Loom Works, Worcester, Mass.

LOOMS (WOOLEN)

Crompton & Knowles Loom Works, Worcester, Mass.

Hughes & Russum, Fkd., Phila., Pa.
Leigh, Evan Arthur, 232 Summer, Boston, Mass.
Mutual Machine Works, Frankford, Phila., Pa.
Smith, James Woolen Machinery Co., 411 Race, Phila., Pa.

LOOMS (WORSTED)

Crompton & Knowles Loom Works, Worcester, Mass.

Hughes & Russum, Fkd., Phila., Pa.
Leigh, Evan Arthur, 232 Summer, Boston, Mass.
Woonsocket Machine & Press Co., Woonsocket, R. I.

LOOPERS

Beattie, Wm. & Son, Cohoes, N. Y.
Grosser Knitting Mach. Co., 260 W. B'way, New York

Hepworth, Jno. W. & Co., Phila., Pa.
Leighton Machine Co., Manchester, N. H.

Scott & Williams, 2079 E Cumberland, Phila., Pa.
Ward & McLean ("American"), Lockport, N. Y.

LUG STRAPS

Black Diamond Lug Strap Co., Reading, Pa.
Bond, Chas., Phila., Pa.

Chicago Rawhide Mfg. Co. (Rawhide), 75 E Ohio, Chicago, Ill.

Houghton, E. F. Co. ("Houghton's" Patent Rockers), 240 W Somerset, Phila., Pa.

Jacobs, E. H. Mfg. Co. ("Crescent," "Eclipse," "Star"), Danielson, Conn.

Kelley, W. H. & Co., Reading, Pa.
Loom Picker Co., Biddeford, Me.

Milliken, W. & Son (Duck, Ticking & Leather), Franklin, Mass.

LUMPERS

Clark Machine & Foundry Co., Franklin, Mass.

Gerry, Geo. & Son, Athol, Mass.
Smith, Jas. Woolen Machinery Co., 411 Race, Phila., Pa.

MAILS (BRASS & STEEL)

Ulrich & Co., Paterson, N. J.
Walder, Jacob, Paterson, N. J.

MECHANICAL DRAFT

(See Page 767)

MERCERIZING MACHINES

Birch Bros., Somerville, Mass.

Butterworth, H. W. & Son Co., Phila., Pa.

Continuous Process Machine Co., Phila., Pa.

Continuous Process Machine Co. ("Shuman"), Torresdale, Phila., Pa.

Klauder-Weldon Dyeing Machine Co., Amsterdam, N. Y.

Smith, Drum & Co., 2501 Coral, Phila., Pa.

Textile Finishing Machinery Co. (Cloth or Yarn), 17 Exchange pl, Providence, R. I.

MILL SOAPS

American Soap & Washoline Co., Cohoes, N. Y.

Dobbins Soap Mfg. Co., 119 S. 4th, Phila., Pa.

Draper, J. O. & Co., Pawtucket, R. I.

Evenson, J. & Sons, 318 N. 20th, Phila., Pa.

Farrington, W. U., East Greenwich, R. I.

Fox, Chas. J., 313 S Philip, Phila., Pa.

Hersom, Thos., & Co., New Bedford, Mass.

Holbrook Mfg. Co., 470 Washington, New York

India Alkali Wks., Boston, Mass.

Marselles Castile Soap Wks., 34 Front, N. Y.

National Soap Mfg. Co., 2402 Montgomery av, Phila., Pa.

Nicetown Mfg. Co., 4301 N. 18th, Phila., Pa.

O. K. Soap Co., 968 Franklin, Phila., Pa.

Providence Sizing Co., Providence, R. I.

Roever, Henry Co., Chester, Pa.

Rome Soap Mfg. Co., Rome, N. Y.

Starace, A. (Importer), 76 Pearl, New York.

Warren Soap Mfg. Co., 77 Summer, Boston, Mass.

Woodley Soap Mfg. Co., 37 Norfolk av, Rox, Boston, Mass.

MILL SUPPLIES (TEXTILE)

(See Mill & Factory Supplies.)

MILL WIRE GOODS

(See Drop Wires, also Guide Wires.)

Blackstone Reel & Harness Co., Pawtucket, R. I.

MOISTENING APPARATUS (AIR)

Aero Cooling & Humidifying Co., 88 Broad, Boston, Mass.

American Moistening Co., Equitable bldg, Boston, Mass.

Garland Mfg. Co., Saco, Me.

Globe Moistening Co., Fall River, Mass.

GREEN FUEL ECONOMIZER CO., Mat-teawan, N. Y. & 1218 West St. Bldg., New York. (See adv. index and branch offices, end of book)

Smith & Furbush Machine Co., Phila., Pa.

Sturtevant, B. F. Co., Hyde Park, Mass.

Turner, J. S. Mfg. Co., Lowell, Mass.

MOTIONS (BOBBIN STOP)

Howard & Bullough Am. Machine Co., Pawtucket, R. I.

MOTIONS (DOFFER COMB)

Barker, Jas., 6th c Cayuga, Phila., Pa.
Whittle, Jas. H., Worcester, Mass.

MOTIONS (DRAWING FRAME STOP)

Howard & Bullough, American Machine Co., Ltd., Pawtucket, R. I.

Riley, C. E. & Co., 65 Franklin, Boston, Mass.

MOTIONS (EVENER)

Lowell Machine Shop, Lowell, Mass.
Saco & Pettee Machine Works, Newton Upper Falls, Mass.

MOTIONS (KNITTING MACHINE STOP)

Crawford Mfg. Co., New Brunswick, N. J.
Forry, I. W., West Reading, Pa.

Nye & Tredick, 606 Arch, Phila., Pa.

Quaker City Stop Motion Co., 23d & Hamilton, Phila., Pa.

Ruth Machine Co., York, Pa.

MOTIONS (LOOM STOP)

Draper Co., Hopedale, Mass.
Tucker Stop Motion Co., Winsted, Conn.

MOTIONS (SELVAGE)

Crompton & Knowles Loom Works, Worcester, Mass.

MOTIONS (SPOOLER STOP)

Curry, Albert & Co., 102 Friendship, Providence, R. I.

Fall River Foundry & Machine Co., Fall River, Mass.

Lowell, Machine Shop, Lowell, Mass.

MOTIONS (TWISTER STOP)

Draper Co. ("Smith's"), Hopedale, Mass.

MOTIONS (WARP STOP)

American Textile Appliances Co., 79 Milk, Boston, Mass.

Coldwell-Gildard Co. ("C. & G."), Fall River, Mass.

Draper Co., Hopedale, Mass.

Kip-Armstrong Co. (Electrical), 260 W B'way, New York

Mossberg Wrench Co. ("Kip Armstrong" Electric), Central Falls, R. I.

Stafford, Geo. W. Co., Readville, Mass.

MULE ATTACHMENTS

Ames Plow Co., Quincy Hall, Boston, Mass.

Bagshaw, W. H. (Est. of), Lowell, Mass.

Diamond Textile Machine Works, 2d & Diamond, Phila., Pa.

Seifert, C. H., 158 York, Phila., Pa.

Whittle, James H., Worcester, Mass.

***MULE PARTS.**

COHOES IRON FOUNDRY & MACHINE

Co. ("Parr" "Curtis" & "Madeley" Parts), Cohoes, N. Y. (See adv. index, end of book)

MULES (COTTON)

Diamond Textile Machine Works, 2d & Diamond, Phila., Pa.

Firth, Wm. Co. (Asa Lees & Co., Ltd.), 79 Milk, Boston, Mass.

Leigh, Evan Arthur ("Platt"), 232 Summer, Boston, Mass.

Lowe, Stephen C., 186 Devonshire, Boston, Mass.

Lowell Machine Shop, Lowell, Mass.

McKerrow, H. G., & Co., 31 State, Boston, Mass.

Mason Machine Works, Taunton, Mass.

Riley, C. E., & Co., ("Threlfall" self-acting), 65 Franklin, Boston, Mass.

MULES (SELF-ACTING)

Firth, Wm. Co. (Asa Lees & Co., Ltd.), 179 Milk, Boston, Mass.
 Lowe, Stephen C. (Hetherington & Curtis patterns), 186 Devonshire, Boston, Mass.
 McKerrow, H. G. & Co., 31 State, Boston, Mass.
 Mason Machine Works, Taunton, Mass.
 Riley, C. E. & Co., 65 Franklin, Boston, Mass.
 Smith, Jas., Woolen Machinery Co. (English & Moulton Styles), 411 Race, Phila., Pa.
 Smith & Furbush Mach. Co. ("Furbush"), Hancock & Somerset, Phila., Pa.
 Stoddard, Haserick, Richards & Co., 152 Congress, Boston, Mass.

MULES (WOOLEN)

Johnson & Bassett, Worcester, Mass.
 Leigh, Evans Arthur ("Platt"), 232 Summer, Boston, Mass.
 Lowe, Stephen C., 186 Devonshire, Boston, Mass.
 Riley, C. E. & Co. ("Self-acting"), 65 Franklin, Boston, Mass.
 Smith, Jas., Woolen Machinery Co., 411 Race, Phila., Pa.
 Stoddard, Haserick, Richards & Co., 152 Congress, Boston, Mass.

MULES (WORSTED)

Birch Bros., Somerville, Mass.
 Diamond Textile Machine Works, 2d & Diamond, Phila., Pa.
 Firth, Wm. Co. (Asa Lees Co., Ltd.), 79 Milk, Boston, Mass.
 Leigh, Evans Arthur ("Platt"), 232 Summer, Boston, Mass.
 Riley, C. E. & Co., ("Self-acting"), 65 Franklin, Boston, Mass.
 Borchers, Rich'd C. & Co., Womrath & Lackawanna, Fkd., Phila., Pa.

NAPPING MACHINES

American Napping Machine Co., Williamstown, Mass.
 Ardrey, S. B. & Sons, Bristol, Pa.
 Birch Bros., Somerville, Mass.
 Borchers, Rich'd C. & Co., 1708 G'tn av, Phila., Pa.
 Curtis & Marble Machine Co., Worcester, Mass.
 Davis & Furber Machine Co., North Andover, Mass.
 Gessner, David, 172 Union, Worcester, Mass.
 Jones, Lewis, 60½ Media, Phila., Pa.
 McCreary, Edw., Cohoes, N. Y.
 Parks & Woolson Machine Co., Springfield, Vt.
 Smith, James Woolen Machinery Co., 411 Race, Phila., Pa.
 Whittle, Jas. H., Worcester, Mass.
 Woonsocket Napping Machinery Co., Woonsocket, R. I.

NECK MARKING MACHINES

Johnston Novelty & Mill Specialty Co., Utica, N. Y.
 Kennedy, Thos., Cohoes, N. Y.
 Utica Novelty & Mill Specialty Co., Utica, N. Y.

NEEDLES (COMBER)

Bragg, John I., 24½ Atwood, Olneyville, N. J.
 Crabb, Wm. & Co., Newark, N. J.
 Dean, Jno. M., Lowell, Mass.
 Tompkins Bros. Co., Troy, N. Y.
 Townsend, Thos., 157 Orange, Providence, R. I.

NEEDLES (CROCHET MACHINE)

Klein, M. & Bro. ("M-K & B" Sun Nickel Plated Steel & Wooden), Bridgeport, Conn.
 Merrow Machine Co., Hartford, Conn.

NEEDLES (KNITTING MACHINE)

Adams, G. H. & Co., Hill, N. H.
 Ames, D. J., Philmont, N. Y.
 Beskert Needle & Supply Co., 5921 Green, Gtn., Phila., Pa.
 Branson Machine Co., 506 N American, Phila., Pa.
 Brinton, H. & Co., 213 Race, Phila., Pa.
 Cooper, Chas., Bennington, Vt.
 Corey, Wm. Co., Manchester, N. H.
 Dodge Needle Co., Manchester, N. H.
 Excelsior Needle Co., Torrington, Conn.
 Ivis, Loyal T., New Brunswick, N. J.
 Jarrard Needle Works, New Brunswick, N. J.
 Lydall, H. & Foulds, Manchester, Conn.
 Manufacturers' Supplies Co., 418 Arch, Phila., Pa.
 Mayo Knitting Machine & Needle Co., Franklin, N. H.
 Page Needle Co., Chicopee Falls, Mass.
 Shaw, J. E. & Son, 3539 N. Marshall, Phila., Pa.
 Treat, Orion (Balmoral), Manchester Green, Conn.
 Wardwell Needle Co., Lakeport, N. H.

NEEDLES (LATCH)

Adams, Geo. H. & Co., Hill, N. H.
 Continental Latch Needle Co., 120 Liberty, New York
 Cooper, Chas., Bennington, Vt.
 Corey, Wm. Co., Manchester, N. H.
 Dodge Needle Co., Manchester, N. H.
 Excelsior Needle Co., Torrington, Conn.
 Franklin Needle Co., Franklin, N. H.
 Lamb Knitting Mfg. Co., Chicopee Falls, Mass.
 Mayo Knitting Machine & Needle Co., Franklin, N. H.
 Page Needle Co., Chicopee Falls, Mass.
 Shaw, J. E. & Son, 3539 N. Marshall, Phila., Pa.

NEEDLES (SEWING MACHINE)

Eastham, Henry W., Lynn, Mass.
 Excelsior Needle Co., Torrington, Conn.
 Lilley & Co., Milford, Mass.
 National Needle Co., Springfield, Mass.
 Singer Sewing Machine Co., 149 B'way, New York
 Smith, A. H. & Co., New Haven, Conn.

NEEDLES (SPRING KNITTING)

American Spring Needle Works, New Britain, Conn.
 Ames, David J. & Co., Philmont, N. Y.
 Cooper, Chas., Bennington, Vt.
 Crane Bros., Westfield, Mass.
 Crane Mfg. Co., Lakeport, N. H.
 Ives, Loyal T., New Brunswick, N. J.
 Jarrard Needle Works, New Brunswick, N. J.
 Lennox, Dunz & Co., Cohoes, N. Y.

NUMBERING MACHINES (REPEATER)

Royle, John & Sons, Paterson, N. J.

OPENERS & FEEDERS (WOOL WASHER)

Harwood, Geo. S. & Son, 53 State, Boston, Mass.

OPENERS & LAPPERS (COTTON)

Howard & Bullough American Machine Co., Ltd., Pawtucket, R. I.
 Kitson Machine Co., Lowell, Mass.
 Leigh, Evan Arthur ("Platt"), 232 Summer, Boston, Mass.
 Lowe, Stephen C., 186 Devonshire, Boston, Mass.
 Riley, C. E. & Co., 65 Franklin, Boston, Mass.
 Smith & Furbush Machine Co., Phila., Pa.
 Whitin Machine Works, Whitinsville, Mass.

OVERSEAMING MACHINES
(See Sewing Machines)**OXIDIZING MACHINES**

American Drying Machinery Co., 3301 N. 19th, Phila., Pa.
 Philadelphia Drying Machinery Co., 6721 Germantown av, Phila., Pa.
 Rothe, O. & P. Mfg. & Supply Co., Norristown, Pa.

PADDING MACHINES

Butterworth, H. W. & Sons Co., Philadelphia, Pa.
 Textile Finishing Machinery Co., 17 Exch. pl, Providence, R. I.
 Watson Machine Co., Paterson, N. J.

PIANO MACHINES

Royle, John & Sons, Paterson, N. J.
 Schaum & Uhlinger, N. 2d & Glenwood av., Phila., Pa.

PICKER LEATHER

Booth & Co., 88 Gold, New York
 Chicago Rawhide Mfg. Co. (Rawhide), 75 E Ohio, Chicago, Ill.
 Coupe, Wm., & Co. ("Excelsior" Raw Hide), S. Attleboro, Mass.
 Helvetia Leather Co., Lancaster, Pa.
 Holbrook, A. & C. W., Providence, R. I.
 Houghton, E. F. & Co. (Vim), 240 W Somerset, Phila., Pa.
 Loom Picker Co., Biddeford, Me.
 Norwich Belt Mfg. Co. ("Tan-Bo" Rawhide), Norwich, Conn.
 Page Belting Co., Concord, N. H.
 Pechin, John W., 124 N 3d, Phila., Pa.
 Popham, Henry, & Son ("Black English"), Newark, N. J.
 Shultz Belting Co., 402 Barton, St. Louis, Mo.
 Stoddard, Haserick, Richards & Co., 152 Congress, Boston, Mass.
 Western Rawhide & Belting Co. (Rawhide), Milwaukee, Wis.

PICKER LOOPS (TAPE)

Loom Picker Co., Biddeford, Me.

PICKER PARTS

Crabb, Wm. & Co., Newark, N. J.
 Dodge, Chas. C., Lowell, Mass.
 Loom Picker Co., Biddeford, Me.

PICKER PINS

Bagshaw, W. H. (Est. of), Lowell, Mass.
 Dodge, C. S. (Hot Forged), Lowell, Mass.
 Stott, Sam'l E. & T., Lowell, Mass.

PICKER ROD SPRINGS

Loom Picker Co., Biddeford, Me.

PICKER STICKS

Brusher, J. B., Norristown, Pa.
 Coburn, Fred. S., 243 Main, Providence, R. I.
 Horn, Jas., Horn's Mills, N. H.
 Houghton, E. F. & Co., 240 W Somerset, Phila., Pa.
 Loom Picker Co., Biddeford, Me.
 Loveland, L. H., Jr., Rumney, N. H.
 Montgomery Lumber & Mfg. Co. (In Quantities), Montgomery, Ala.
 New England Shuttle Co., 64 Leverett, Lowell, Mass.
 Southern Bobbin Co. (Hickory), Greensboro, N. C.
 Tatem, J. B. & Son, Putnam, Conn.

PICKER TEETH

Crabb, Wm. & Co., Newark, N. J.
 Holman, Issac T., Millville, Mass.
 Keystone Drop Forge Works, Chester, Pa.

PICKERS (BURR)

Brown Cotton Gin Co. ("Parkhurst"), New London, Conn.
 Curtis & Marble Machine Co. ("Goddard"), Worcester, Mass.
 Sargent's, C. G. Sons, Westford, Mass.
 Smith, James, Woolen Machinery Co., 411 Race, Phila., Pa.
 Smith & Furbush Machine Co., Hancock & Somerset, Phila., Pa.

PICKERS (COTTON)

American Cotton Picker Co., 29th & Small-man, Pittsburg, Pa.
 Clark Machine & Fdy. Co., Franklin, Mass.
 Curtis & Marble Mach. Works, Worcester, Mass.
 Garland Mfg. Co., Saco, Me.
 Holbrook, A. & C. W., Providence, R. I.
 Smith & Furbush Machine Co. ("Furbush"), Philadelphia, Pa.
 Schofield, Wm. Co., Manayunk, Phila., Pa.
 Whitin Mach. Co., Whitinsville, Mass.
 Whittle, James H., Worcester, Mass.

PICKERS (COTTON FILLED)

Houchin & Huber, 35 53d, Brooklyn, N. Y.
 Wilkins Mfg. Co., Woonsocket, R. I.

PICKERS (HAIR)

Bean, Walter N., Stoneham, Mass.
 Curtis & Marble Machine Co., Worcester, Mass.
 Day, J. H. Co., 1144 Harrison av., Cincinnati, Ohio
 Ersham, J. B. & Sons' Mfg. Co., Enterprise, Kans.
 Houchin & Huber, 35 53d, Brooklyn, N. Y.
 Smith & Furbush Machine Co. (Improved Opener & Cleaner), Phila., Pa.

PICKERS (LOOM)

Abbott, J. V. Mfg. Co., Dedham, Mass.
 Akron Belting Co. (Leather), Akron, O.
 American Picker & Strapping Co., Providence, R. I.
 Barlow, John W. Co., Lawrence, Mass.
 Brown Bros. Co., Providence, R. I.
 Coburn, Fred S., 243 Main, Woonsocket, R. I.
 Coupe, Wm., & Co. So. Attleboro, Mass.
 Crane Bros., Westfield, Mass.
 Crompton & Knowles Loom Works, Worcester, Mass.
 Garland Mfg. Co., Saco, Me.
 Holbrook, A. & C. W. (Rawhide), 748 N. Main, Providence, R. I.
 Houghton, E. F. & Co., 240 W Somerset, Phila., Pa.
 HUDSON BELTING CO. (Leather), Worcester, Mass. (See adv. index, end of book)
 Jacobs, E. H. Mfg. Co. ("Northrop," "XXOY," "Surpass WX," "B. G. D., "Daisy"), Danielson, Conn.
 Kimball, L. S., Lowell, Mass.

Loom Picker Co., Biddeford, Me.
 Milliken, W. & Son, Franklin, Mass.
 Parkinson, E. Co., Saronville, Mass.
 Pickles, Joseph, New Bedford, Mass.
 Smith, Jas., & Co., 411 Race, Phila., Pa.
 Union Belt Co., Fall River, Mass.
 Wilkins Mfg. Co., 14 S Main, Woonsocket, R. I.
 Williams, J. H. Co., Utica, N. Y.

PICKERS (MIXING)

Brown Cotton Gin Co., New London, Conn.
 Clark Machine & Foundry Co., Franklin, Mass.
 Curtis & Marble Machine Co., Worcester, Mass.
 Smith & Furbush Mach. Co., Hancock & Somerset, Phila., Pa.
 Whittle, Jas. H., Worcester, Mass.

PICKERS (RAG OR SHODDY)

Clark Machine & Fdy. Co., Franklin, Mass.
 Dodge, C. S., Lowell, Mass.
 Gerry, Geo. & Son, Athol, Mass.
 Houchin & Huber, 35 53d, Brooklyn, N. Y.
 Kitson Machine Co., Lowell, Mass.
 Lombard Machine Co., Worcester, Mass.
 Schofield, Wm. Co., Manayunk, Phila., Pa.
 Smith, Jas., Woolen Machinery Co., 411 Race, Phila., Pa.
 Smith & Furbush Machine Co. ("Proctor"), Phila., Pa.
 Stott, S. E. & T., Lowell, Mass.

PICKERS & CLEANERS (STOCK)

Smith, Jas. Woolen Mach. Co., 411 Race, Phila., Pa.

PIN TICKETS

Steinthal, H. & Co., 267 W. B'way, N. Y.

PINS (CAST STEEL)

Hood, R. H. (English), 1842 Germantown av., Phila., Pa.

PLAITING & FLUTING MACHINES

Ahlstrom, O. J., 711 B'way, New York
 Dubrow & Hearne Mfg. Co., 12 Wooster, New York

POWER TRANSMITTING MACHINERY
(See Page 655)**PRESSERS & FLYERS**

Baker Mach. Co., Inc., New Bedford, Mass.

PRESS PAPERS & BOARDS

Case Brothers, Highland Park, Conn.
 Merwin Paper Co., Hartford, Conn.

PRESS PLATES

Whittle, Jas. H., Worcester, Mass.

PRESSES (CLOTH)

Spence & Rideout (Power Presses with Hollow Seam Plates & Connections), Nashua, N.H.

PRESSES CLOTH (ROTARY STEAM)

Curtis & Marble Machine Co., Worcester, Mass.
 Voelker, Geo. W. & Co., Woonsocket, R. I.
 Wilbur Press & Machine Co., Woonsocket, R. I.
 Woonsocket Machine & Press Co., Woonsocket, R. I.

PRESSES (COTTON)

(See Page 979)

PRESSES (KNIT GOODS)

Co., Cohoes, N. Y. (See adv. index, end of book)

PRESSES (STEAM)

Hart, Chas., 4617 Hedge, Fkd., Phila., Pa.

PRESSES (TINCTURE)

Johnson Fdry. & Mach. Wks. ("Yale"), Battle Creek, Mich.

PRESSES (WARP)

Liddell Co., Charlotte, N. C.

PUMICING MACHINES (WORSTED)

Curtis & Marble Machine Co., Worcester, Mass.

QUILLERS

Altamus, Jacob K., 2824 N 4th, Phila., Pa.
 Atherton Machine Co. (For Silk Mills), Paterson, N. J.
 Atwood, Morrison Co., Stonington, Conn.

Crompton & Knowles Loom Works, Worcester, Mass.
 Eastwood, Benj., Co. (Silk), Paterson, N. J.
 Paterson Machine Works, 46 Warren, Paterson, N. J.
 Payne, G. W. Co. (Upright), Pawtucket, R. I.
 Rhode Island Braiding Machine Co., Providence, R. I.
 Royle, Jno. & Sons, Paterson, N. J.
 Whitin Machine Works (Long Chain), Whitinsville, Mass.

QUILLS

Hall, I. A. & Co., Paterson, N. J.
 Ulrich & Co., Paterson, N. J.

RAG MACHINERY

Riley, C. E., & Co., 65 Franklin, Boston, Mass.

RAILWAY HEADS

Fall River Mach. Co., Fall River, Mass.
 Draper Co., Hopedale, Mass.
 Fall River Foundry & Machine Co., Fall River, Mass.
 Lowell Machine Shop, Lowell, Mass.
 Mason Machine Works, Taunton, Mass.
 Saco & Pettee Machine Shops, Newton Upper Falls, Mass.
 Whitin Machine Works, Whitinsville, Mass.

RASHEL MACHINES

Grosser Knitting Machine Co., 260 W B'way, New York

RAVELERS

American Raveler Co., Philmont, N. Y.
 Union Raveler Co., 519 River, Troy, N. Y.

RAVELING MACHINES (YARN)

Taylor, Jas., 835 Arch, Phila., Pa.

REEDS

Allentown Reed, Harness & Mill Supply Co., Allentown, Pa.
 American Supply Co. (Loom), Providence, R. I.
 Andrews' Loom Reed & Harness Works, Spartenberg, S. C.

Baldwin, Jas. Co., Manchester, N. H.
 Berry & Johnston, Fall River, Mass.
 Blackstone Reed & Harness Co., Pawtucket, R. I.
 Carruthers, Robt., Lowell, Mass.
 Cleworth, John (Steel & Brass), Manchester, N. H.

Cowles, C. Co. (Inc.), New Haven, Conn.
 Crabb, William & Co., Newark, N. J.
 Craig & Scott, Lewiston, Me.
 Draper Co., Hopedale, Mass.
 Emmons Loom Harness Co., Lawrence, Mass.
 Excelsior Loom Reed Works, Pawtucket, R. I.
 Fitzgerald Loom Reed Co., N 2d & Diamond, Phila., Pa.

Gibbs Loom, Harness & Reed Co., Clinton, Mass.

Gowdey, J. A. Reed & Harness Mfg. Co., Providence, R. I.

Hall, I. A., 30 Hamilton, ave., Paterson, Pa.
 Heywood Bros. & Wakefield Co., Gardner, Mass.
 Jeffrey, H. & Co., Woonsocket, R. I.

Littlefield & Sawyer, Saco, Me.
 Loom Picker Co., Biddeford, Me.

Luther Reed Mfg. Co., Fall River, Mass.
 McGregor & Sons, Fall River, Mass.
 Paterson Reed & Harness Co., Paterson, N. J.

Southern Card Clothing & Reed Co., Charlotte, N. C.

Stewart & Sons, 312 Master, Phila., Pa.
 Street, R. R. & Co., 184-186 Washington, Chicago, Ill.

Tilley, Norris, 49 Taylor, Springfield, Mass.
 Ulrich & Co., Paterson, N. J.

Walder, J., Paterson, N. J.
 Walker Mfg. Co., 191 Zerkes, Phila., Pa.

Weston, S. N., Fitchburg, Mass.
 Whittle, Jas. H., Worcester, Mass.

Wilkins Mfg. Co., 14 S Main, Woonsocket, R. I.
 Williams, J. H. Co., Utica, N. Y.

Woonsocket Reed & Shuttle Wks., Woonsocket, R. I.

REELS

Altamus, Jacob K., 2824 N 4th, Phila., Pa.
 Atherton Machine Co. (Power for Silk Mills), Paterson, N. J.

Draper Co., Hopedale, Mass.
 Lever, Oswald, Lehigh av, c Mascher, Phila., Pa.

Firth, Wm. Co. (Stubbs), 79 Milk, Boston, Mass.

Hopedale Machine Co., Hopedale, Mass.
 How & Bassett, Norfolk Downs, Mass.

Lindsay, Hyde & Co., 2124 E. York, Phila., Pa.
 Lowell Machine Shop, Lowell, Mass.
 Luther, Chas. A. & Co., Pawtucket, R. I.
 Saco & Pettee Machine Shops, Newton Upper Falls, Mass.
 Slipp Electric & Machine Co., 1 Mill, Paterson, N. J.
 Smith, Jas. Woolen Machine Co., 411 Race, Phila., Pa.
 Textile Machine Works, Reading, Pa.
 Whitin Machine Works, Whitinsville, Mass.
 Whittle, James H., Worcester, Mass.

REELS, SKEINING & MEASURING

Rhode Island Braiding Machine Co., Providence, R. I.

REELS, YARN

Brown & Sharpe Mfg. Co., Providence, R. I.
 Carpenter, Orville, Pawtucket, R. I.
 Diamond Textile Machine Works, 2d & Diamond, Phila., Pa.

Draper Co., Hopedale, Mass.
 Firth, Wm., Co. (Goodbrandt & Co.), 79 Milk, Boston, Mass.

How & Bassett, Norfolk Downs, Mass.
 Lever, Oswald, Lehigh av c Mascher, Phila., Pa.

Lowell Machine Shop, Lowell, Mass.
 Luther, Chas. A., & Co., Pawtucket, R. I.

Saco & Pettee Mach. Shops, Newton, Upper Falls, Mass.
 Smith, Jas., Woolen Machinery Co., 311 Race, Phila., Pa.

Whitin Machine Works, Whitinsville, Mass.
 Whittle, James H., Worcester, Mass.

RIB CUTTING & FOLDING MACHINES

Cooper, Chas. (Automatic), Bennington, Vt. & Amsterdam, N. Y.

ROLL COVERERS

Aubertin, Jos. F., New Bedford, Mass.
 Barlow, Jno. W. Co., Lawrence, Mass.
 Bowen, Lewis C., Phenix, R. I.
 Bridge, Jno., Chester, Pa.
 Burnham, E. E. Co., Lawrence, Mass.
 Cummings, Geo. & Son, 29 Bowers, Fall River, Mass.

Dickey, H. H. & Son, Lewiston, Me.
 Fitchburg Top Roll Covering Co., Fitchburg, Mass.

Goldthwait, M. B., Millbury, Mass.
 Hart, Elmer E., Fitchburg, Mass.

Hathaway, O. H., Jr., Central Falls, R. I.
 Holyoke Machine Co., Holyoke, Mass.

Hood, R. H., 1842 Gtn av, Phila., Pa.
 Houghton, E. F. & Co. (Vici Leather), 240 Somerset, Phila., Pa.

Lakey, C. T., Georgiaville, R. I.
 North Chelmsford Machine & Supply Co., North Chelmsford, Mass.

Pechin, John W., 124 N 3d, Phila., Pa.
 Prentice, Chas. W., Taftville, Conn.

Skinner, C. E. & J. F., Valley Falls, R. I.
 Taylor & Co., Spartanburg, S. C.

Tripp, Jno. & Co., Lowell, Mass.
 Turner, J. S. Mfg. Co., Lowell, Mass.

Union Belt Co., Fall River, Mass.
 Wainwright, R., Westpoint, Ga.

Wetherell, Orrin B. & Son, Fall River, Mass.

ROLL COVERERS' TOOLS

Am. Supply Co., Providence, R. I.
 Dennis, Jno. & Co., Lowell, Mass.

ROLLER COVERING MACHINES

Turner, J. S. Mfg. Co. ("Turner's" Worsted), Lowell, Mass.

ROLLER LEATHER

English, C. R. Co., 204 Summer, Boston, Mass.

Houghton, E. F. & Co. ("Vim"), 240 W Somerset, Phila., Pa.

ROLLER SKINS

Firth, Wm. Co. (Kershaw & Sons), 79 Milk, Boston, Mass.

Kimball & Brown, Manchester, N. H.
 Merrill, J. E. & Co., 24 Pleasant, Manchester, N. H.

Spencer, Wilton H., Providence, R. I.
 Stone, C. Moulton Co., 456 Benefit, Providence, R. I.

ROLLERS (COPPER PRINTING)

Rome Metal Co., Rome, N. Y.

Taunton-New Bedford Copper Co., Taunton, Mass., & New Bedford, Mass.

Textile Finishing Machy. Co., Providence, R. I.

ROLLS (CARD FEED)

(See also Feeds.)

Adams, J. J. & M. J., 46 Leverett, Lowell, Mass.
 Curtis & Marble Machine Co., Worcester, Mass.
 Fall River Foundry & Machine Co., Fall River, Mass.
 Harwood, Geo. S. & Son, 53 State, Boston, Mass.
 Hood, R. H. ("Harding's" Intersecting), 1842 Gtn av, Phila., Pa.
 Kenyon, D. R. & Son, Raritan, N. J.
 Smith & Furbush Machine Co. (Metallic), Phila., Pa.
 Textile Finishing Machinery Co., 17 Exch. pl, Providence, R. I.

ROLLS (FLUTED)

COHOES IRON FOUNDRY & MACHINE
 Co., Cohoes, N. Y. (See adv. on following page)

NIAGARA MACHINE & TOOL WKS.
 Buffalo, N. Y. (See adv. index, end of book)
 Providence Machine Co., Providence, R. I.
 Riley, C. E., & Co., 65 Franklin, Boston, Mass.
 Thurston, A. G. & Son, Fall River, Mass.

ROLLS (HAND BANDING)

Whitcomb Mfg. Co., Worcester, Mass.

ROLLS (IMMERSION)

Whittle, James H. (Copper), Worcester, Mass.

ROLLS (METALLIC DRAWING)

Metallic Drawing Roll Co., Springfield, Mass.

ROLLS (RUB. FOR FINISHERS)

Whittle, James H. (Tin), Worcester, Mass.

ROLLS (SIZE)

Whittle, James H. (Copper), Worcester, Mass.

ROLLS (TEMPLE)

Draper Co., Hopedale, Mass.

ROPE TRANSMISSION

(See Page 721)

ROVING CANS

American Vulcanized Fibre Co. (Laminar Department), 1017 Market, Wilmington, Del.
 Diamond State Fibre Co., Elsmere, Del.
 Fibre Mfg. Co., 32 Howard, N. Y.
 Hill, Jas. Mfg. Co., Providence, R. I.
 N. E. Ventilating & Heating Co., Providence, R. I.

SPAULDING, J. & SONS CO., North Rochester, N. H. (See adv. index, end of book)
 Spaulding & Perkins Co., No. Rochester, N. H.
 Whittle, James H., Worcester, Mass.

SADDLE BOXES

Hood, R. H., 1842 Gtn av, Phila., Pa.

SADDLES

Arguto Oilless Bearing Co., 149 Berkley, Phila., Pa.
 Dixon Lubricating Saddle Co., Bristol, R. I.

SAMPLE CARD MACHINES

Cummings-Angelum Machine Co., 320 B'way, N. Y.

SANDING MACHINES

Curtis & Marble Machine Co., Worcester, Mass.
 Parks & Woolson Machine Co., Springfield, Vt.

SCALES (BAND TENSION)

Draper Co., Hopedale, Mass.

SCALES (GARMENT, LEVER-BALANCE)

Sweet & Doyle, Cohoes, N. Y.

SCALES (YARN)

Brown & Sharpe Mfg. Co., Providence, R. I.
 Draper Co., ("Schaer's," also "Schaer's Template & Cloth Calculator"), Hopedale, Mass.
 Fairbanks Co., Broome & Elm, New York
 How & Bassett, Norfolk Downs, Mass.
 Sweet & Doyle, Cohoes, N. Y.

SCALES (YARN & ROVING)

Sweet & Doyle, Cohoes, N. Y.

SCARFING MACHINES

Luther, C. A. & Co., Pawtucket, R. I.

SCOLLOP MACHINES

Merrow Machine Co., Hartford, Conn.
 National Automatic Knitter Co., 724 Cherry, Phila., Pa.

SCOURING MACHINES (WOOL)

Butterworth, H. W. & Sons Co., 2415 E. York, Phila., Pa.
 Gilliland's, Francis Sons, 39 Bridge, Amsterdam, N. Y.
 Hunter, James Machine Co., North Adams, Mass.
 Klauder-Weldon Dyeing Machine Co., Amsterdam, N. Y.
 Lorimer, Jno. H., Walnut la, Gtn., Phila., Pa.
 Riley, C. E., & Co., 65 Franklin, Boston, Mass.
 Smith, Jas., Woolen Machinery Co., Phila., Pa.

SCOURING MACHINES (YARN)

American Drying Machinery Co., Westmoreland & P. & R. Ry., Phila., Pa.
 Phila. Drying Machinery Co., 6721 Germantown av, Phila., Pa.
 Smith & Furbush Machine Co., Hancock & Somerset, Phila., Pa.

SCREENS (CARD)

New England Ventilating & Heating Co., Providence, R. I.

SEPARATORS (SPINNING FRAME)

Draper Co. ("Rhoades-Chandler"), Hopedale, Mass.

SEWING MACHINES

(See Index of Contents)

SHAFTING

(See Page 1034)

SHEARING MACHINES (TEXTILE)

Butterworth, H. W. & Sons Co., Phila., Pa.
 Curtis & Marble Machine Co., Worcester, Mass.
 Parks & Woolson Machine Co., Springfield, Vt.

SHEARING & BRUSHING MACHINE (COMBINED)

Curtis & Marble Machine Co., Worcester, Mass.

SHODDY MACHINERY

Kitson Machine Co., Lowell, Mass.
 Riley, C. E. & Co., 65 Franklin, Boston, Mass.

SHUTTLE BLOCKS

Cox, J. Elwood, Highpoint, N. Y.
 Hardwood Specialty Co., end of Main, Memphis, Tenn.
 Tucker, E. F., & Son, Chestnut Hill, Conn.
 Wood, A. C. & Co., Advance, N. C.

SHUTTLE CHECKS

Victor Shuttle Check Co., Auburn, N. Y.

SHUTTLE EYES

Mitchell-Bissell Co., 227 Fulton, New York

SHUTTLE GUARDS

Crompton & Knowles Loom Works, Worcester, Mass.
 Draper Co. ("Sullivan"), Hopedale, Mass.

SHUTTLE IRONS

Litchfield Shuttle Co., Southbridge, Mass.
 Marble, E. W., Wilkinsonville, Mass.
 New England Shuttle Co., 64 Leverett, Lowell, Mass.
 Richardson & Bottomley, West Mansfield, Mass.

SHUTTLE THREADERS

Lahue, M. M. & Co., 107 Cushing, Lowell, Mass.

SHUTTLES

American Supply Co., Providence, R. I.
 Billington, Jas. H. & Co., Phila., Pa.
 Coburn, Fred S., 243 Main, Woonsocket, R. I.
 Dudley, D. T. & Son, Wilkinsonville, Mass.
 Dudley, S. A., Taunton, Mass.
 Griggs Mfg. Co., Lincolnton, N. C.
 Hall, I. A. & Co., Paterson, N. J.
 Litchfield Shuttle Co., Southbridge, Mass.
 Lowell Shuttle Co., Lowell, Mass.

Nashua Spool & Bobbin Co., Nashua, N. H.
 Murray, Chas. O., Nashua, N. H.
 New England Shuttle Co., 64 Leverett, Lowell, Mass.
 New Bedford Shuttle Co., New Bedford, Mass.
 Parkinson, E. Co., Saxonville, Mass.
 Porter Shuttle & Bobbin Co., Watertown, Mass.
 Sergeson, R. & Co., 1704 Tulip, Phila., Pa.
 Shambow Shuttle Co., Woonsocket, R. I.
 Southern Shuttle & Bobbin Co., Greensboro, N. C.

Taunton Spindle Co., Taunton, Mass.
 Ulrich & Co., Paterson, N. J.
 Union Shuttle Co., Lawrence, Mass.
 U. S. Bobbin & Shuttle Co., Providence, R. I.
 Vermont Spool & Bobbin Co., Burlington, Vt.
 Williams, J. H. & Co., Utica, N. Y.
 Woonsocket Reed & Shuttle Wks., Woonsocket, R. I.
 Woonsocket Shuttle Co., Woonsocket, R. I.

SILK MACHINE WIPERS

Wilkinson, Seth, Pawtucket, R. I.

SILK MACHINERY

Atherton Machine Co., Paterson, N. J.
 Atwood-Morrison Co. Stonington, Conn.
 Butterworth, H. W. & Sons Co., 2415 E York, Phila., Pa.
 Brigham, Arthur A., 186 Devonshire, Boston, Mass.
 Cavagnaro, Jno. J. (Silk Finishers), 215 Centre, New York, N. Y.
 Crompton & Knowles Loom Works, Worcester, Mass.

Eastwood, Benj., Co., Paterson, N. J.
 Hartson, L. M. Co. (Throwsters), No. Windham, Mass.
 Kilburn, Lincoln & Co., Fall River, Mass.
 Knapp, C. H., Waite & Rye, Paterson, N. J.
 Mason Machine Works, Taunton, Mass.
 National Mill Supply Co., Paterson, N. J.
 Paterson Machine Works, 46 Warren, Paterson, N. J.

Boyle, Jno. & Son, Paterson, N. J.
 Schaum & Ublinger, N. Penn Junc., Phila., Pa.
 Sipp Electric & Machine Co., Paterson, N. J.
 Stafford, Geo. W. Co., Readville, Mass.
 Textile Finishing Machinery Co. (Finishing), 17 Exchange pl, Providence, R. I.
 Webendorfer & Walling, Paterson, N. J.
 Willimantic Machine Co., Willimantic, Conn.

SINGE PLATES

Birch Bros., Somerville, Mass.
 Butterworth, H. W. & Sons Co., 2415 E York, Phila., Pa.
 Rome Metal Co., Rome, N. Y.
 Taunton-New Bedford Copper Co., New Bedford, Mass.
 Textile Finishing Machinery Co., 17 Exchange pl, Providence, R. I.
 Whittle, James H. (Copper), Worcester, Mass.

SINGEING MACHINES

Butterworth, H. W. & Sons Co., 2415 E York, Phila., Pa.
 Curtis & Marble Machine Co. (Gas), Worcester, Mass.
 Knapp, C. H., c Waite & Rye, Paterson, N. J.
 New England Butt Co., Providence, R. I.
 Rhode Island Braiding Machine Co., Providence, R. I.
 Rockwell Engineering Co. (Fine Plate Cloth for Oil, Coal or Gas), 26 Cortlandt, New York
 Skevington, Henry H. & Co. (Hosiery), 1610 N Philip, Phila., Pa.
 Smith, Drum & Co., 2503 Canal, Phila., Pa.
 Textile Finishing Machinery Co., 17 Exch. pl, Providence, R. I.
 Textile Machine Works, Reading, Pa.
 Watson Machine Co., Paterson, N. J.

SIZING MACHINES

American Clay Working Machine Co., Bucyrus, O.
 Butterworth, H. W. & Sons Co., 2415 E York, Phila., Pa.
 Clark, Geo. R. Co., Windsor Locks, Conn.
 Klein, Chas. C., 2850 N Marshall, Phila., Pa.
 Textile Finishing Machinery Co. (Cloth & Yarn), 17 Exch. pl, Providence, R. I.

SKEWERS

Arnold Bobbin Co., Killingly, Conn.
 Fall River Bobbin & Shuttle Co., 821 Cambridge, Fall River, Mass.
 Fall River Foundry & Machine Co., Fall River, Mass.
 Hale, T. J., Lawrence, Mass.
 Murray, Chas. O., Nashua, N. H.

Nashua Spool & Bobbin Co., Nashua, N. H.
 Payne, Geo. W. Co. (Cop.), Pawtucket, R. I.
 Sherwood Bobbin & Mfg. Co., Greensboro, N. C.
 Southern Robbin Co., Greensboro, N. C.
 Weld Bobbin & Spool Co., Lawrence, Mass.
 Woodstock Hardwood & Spool Mfg. Co.,
 Charleston, S. C.

SLASHERS

COHOES IRON FOUNDRY & MACHINE
 Co., (Cylinder & Hot Air), Cohoes, N. Y.
 (See adv. below)

Entwistle, T. C. Co., Lowell, Mass.
 Howard & Bullough American Machine Co.,
 Ltd., Pawtucket, R. I.
 Lowell Machine Shop, Lowell, Mass.
 Riley, C. E. & Co., 65 Franklin, Boston, Mass.
 Textile Finishing Machinery Co., 17 Exch. pl.
 Providence, R. I.

SLUBBING MACHINES

(See also Frames, Slubbing)

Howard & Bullough American Machine Co.,
 Ltd., Pawtucket, R. I.
 Klauder-Weldon Dyeing Machine Co., Amster-
 dam, N. Y.
 Lowell Machine Shops, Lowell, Mass.
 Providence Machine Co., Providence, R. I.
 Saco & Pettee Machine Shops, Newton, Upper
 Falls, Mass.
 Whitin Machine Works, Whitinsville, Mass.
 Woonsocket Machine & Press Co., Woonsocket,
 R. I.

SOAPING MACHINES

Birch Bros., Somerville, Mass.
 Hunt, Rodney Machine Co., Orange, Mass.
 Kenyon, D. R. & Son, Raritan, N. J.
 Textile Finishing Machinery Co., 17 Exchange
 pl., Providence, R. I.
 Watson Machine Co., Paterson, N. J.

SOAPS (TEXTILE)

(See Mill Soaps)

SPINDLE BANDING

(See Braided Banding; also Spindle Hook
 Bands.)

SPINDLE BOLSTERS

Bloom & Godley, Trenton, N. J.
 Hopkins Machine Works (Inc.), Bridgeton, R. I.
 Payne, Geo. W. Co., Pawtucket, R. I.
 Piqua Handle & Mfg. Co., Piqua, O.
 Westcott, A. A. & Sons, Hopedale, Mass.

SPINDLE HOOK BANDS

Bins Patent Band Co., 5th & Berks, Phila., Pa.
 Frost, Geo. T. & Sons, Paterson, N. J.

SPINDLE TUBES (WORSTED)

Bamford & Smith, Pascoag, R. I.
 Riley, C. E. & Co., 65 Franklin, Boston, Mass.
 Stoddard, Haserick, Richards & Co., 152 Con-
 gress, Boston, Mass.

SPINDLE & BOBBIN GEARS
COHOES IRON FOUNDRY & MACHINE
 Co., Cohoes, N. Y. (See adv. below)

SPINDLES

American Textile Specialty Machy. Co., 363
 Rider av, New York
 Bamford & Smith, Providence, R. I.
 Buckley's, B. Son, Paterson, N. J.
 Dann Bros. & Co., New Haven, Conn.
 Draper Co., Hopedale, Mass.
 Easton & Burnham Machine Co. (High Speed),
 Pawtucket, R. I.
 Ellsworth Hardwood Co. (Wood of all varie-
 ties), Ellsworth, Me.
 Firth, Wm. Co. (Clapham, Smith & Co.'s), 79
 Milk, Boston, Mass.
 Hall, I. A. & Co. ("Cant Slip"), Paterson, N. J.
 Hartson, L. M. Co., N. Windham, Conn.
 Hopkins Machine Works (Inc.), Bridgeton,
 R. I.
 Lever, Oswald Co. (Horizontal, Driven by
 Belts), Phila., Pa.
 Manston & True, Hampton, N. H.
 Mayor, Thos. & Son, Providence, R. I.
 Payne, Geo. W. Co., Pawtucket, R. I.
 Providence Mach. Co., Providence, R. I.
 Taunton Spindle Co., Taunton, Mass.
 Ward & Vandegrift, Elmer, N. J.
 Westcott, A. W., Hopedale, Mass.
 Wisconsin Textile Mfg. Co., Two Rivers, Wis.

SPINDLES (COP)

American Textile Specialty Machinery Co., 363
 Rider av, New York

SPINDLES (DRESSER)

Payne, Geo. W. Co., Pawtucket, R. I.

SPINDLES (REEL)

Payne, Geo. W. Co., Pawtucket, R. I.

SPINDLES (SHUTTLE)

Chase, F. A. & Co., Providence, R. I.

SPINDLES (SPOOLER)

Diamond Textile Machine Works, 2d & Dia-
 mond, Phila., Pa.
 Payne, Geo. W. Co., Pawtucket, R. I.

SPINNING MACHINERY

(See Frames; also Mules.)

SPINNING MACHINERY (JUTE)

Brownell, G. L., 49 Union, Worcester, Mass.
 Firth, Wm. Co. (Mackie & Sons), 179 Milk,
 Boston, Mass.
 Stoddard, Haserick, Richards & Co., 152 Con-
 gress, Boston, Mass.
 Watson Machine Co., Paterson, N. J.

SPINNING RINGS

American Supply Co., Providence, R. I.
 Brown Bros. Co., Providence, R. I.
 Buckley's, Benj. Son, Paterson, N. J.
 Draper Co., Hopedale, Mass.
 Pawtucket Spinning Ring Co., Pawtucket, R. I.
 Stoddard, Haserick, Richards & Co., 152 Con-
 gress, Boston, Mass.
 Westcott, A. W., Hopedale, Mass.
 Whitinsville Spinning Ring Co., Whitinsville,
 Mass.

SPINNING TUBES

Bamford & Smith Co., Providence, R. I.
 Buckley's, Benj. Son, Paterson, N. J.

THE COHOES ELEVATOR

ELECTRIC, BELT-DRIVEN, HAND-POWER

Our Automatic Hatch Doors are
 accepted by the Fire Underwriters

ESPECIALLY ADAPTED TO MILL AND FACTORY USE

The Cohoes Iron Foundry and Machine Company

COHOES, N. Y.

SPLICING MACHINES

Brigham, Arthur A., 186 Devonshire, Boston, Mass.

SPOOLER GUIDES

Draper Co. ("Northrop," "Northrop Improved," "Lawrence"), Hopedale, Mass.
Payne, Geo. W. Co., Pawtucket, R. I.

SPOOLERS (COTTON)

Altemus, Jacob K., 2816 N 4th, Phila., Pa.
Diamond Textile Machine Works, 2d & Diamond, Phila., Pa.
Draper Co., Hopedale, Mass.
Easton & Burnham Machine Co., Pawtucket, R. I.
Foster Machine Co., Westfield, Mass.
Klein, Chas. C. ("Klein" Patent), 2850 N. Marshall, Phila., Pa.
Lever, Oswald, Lehigh av & Mascher, Phila., Pa.
Lowell Machine Shop, Lowell, Mass.
Saco & Pettie Machine Shops, Newton Upper Falls, Mass.
Schalm & Uhlinger, N 2nd & Glenwood av
Smith, Jas., Woolen Machinery Co., 411 Race, Philadelphia, Pa.
Stoddard, Haserick, Richards & Co., 152 Congress, Boston, Mass.
Whitin Machine Works, Whitinsville, Mass.
Wrigley, Thomas, Paterson, Mass.

SPOOLERS (DOUBLING)

Payne, Geo. W. Co., Pawtucket, R. I.

SPOOLERS (DRESSER)

Altemus, Jacob K., 2816 N 4th, Phila., Pa.
Diamond Textile Machine Works, 2d & Diamond, Phila., Pa.
Foster Machine Co., Westfield, Mass.
Lever, Oswald, Lehigh av, c Mascher, Phila., Pa.
Lindsay, Hyde & Co., 2124 E. York, Phila., Pa.
Smith & Furbush Machine Co. ("Furbush"), Phila., Pa.

SPOOLERS (DRUM)

Whittle, James H., Worcester, Mass.

SPOOLERS (WOOLEN & WORSTED)

Altemus, Jacob K., 2816 N. 4th, Phila., Pa.
Diamond Textile Machine Works, 2d & Diamond, Phila., Pa.
Easton & Burnham Machine Co., Pawtucket, R. I.
Foster Machine Co., Westfield, Mass.
Smith, Jas., Woolen Mach. Co., 411 Race, Philadelphia, Pa.
Smith & Furbush Mach. Co., Hancock & Somerset, Phila., Pa.
Whittle, James H., Worcester, Mass.

SPOOLERS (YARN)

Altemus, Jacob K., 2816 N 4th, Phila., Pa.
Diamond Textile Machine Works, 2d & Diamond, Phila., Pa.
Foster Machine Co., Westfield, Mass.
Lever, Oswald, Lehigh av & Mascher, Phila., Pa.
Payne, Geo. W. Co., Pawtucket, R. I.
Whittle, Jas. H., Worcester, Mass.

SPOOLING MACHINES

(See Spoolers.)

SPOOLS

(See also Bobbins)

Adams Bobbin & Spool Co., Adams, Mass.
Altemus, Jacob K., 2824 No. 4th, Phila., Pa.
Allen Spool Printing Co., Mystic, Conn.
American Supply Co., Providence, R. I.
Arnold Bobbin Co., Killingly, Conn.
Atwood-Crawford Co., Pawtucket, R. I.
American Supply Co., Providence, R. I.
Baldwin, Jas. Co., Manchester, N. H.
Brown Bros. Co., Providence, R. I.
Chester Mfg. Co., Chester, Mass.
Coburn, Fred S., 243 Main, Woonsocket, R. I.
Elliott & Bartlett, Albany, Me.
Eureka Spool Works (Fibre), 176 Wooster, New York
Excelsior Bobbin & Spool Co., Newtown, Pa.
Fall River Bobbin & Shuttle Co., 821 Cambridge, Fall River, Mass.
Fall River Foundry & Machine Co., Fall River, Mass.
Frary, H. H., Berlin, N. Y.
Georgia Spool & Bobbin Mfg. Co., Macon, Ga.
Hale, T. J., Lawrence, Mass.
Hall, F. A. & P., Lawrence, Mass.
Kline, Lewis T. (Thread), Alpena, Mich.
Marodi Fibre Co., Woonsocket, R. I.
Mawson Bros., Newtown, Pa.

Mawson Spool & Bobbin Co., Lestershire, N. Y.
Muriay, Chas. O., Nashua, N. H.
Nashua Spool & Bobbin Co., Nashua, N. H.
National Spool & Bobbin Co., Weatherly, Pa.
New England Shuttle Co., 64 Leverett, Lowell, Mass.

NOVELTY TURNING CO., Norway, Me.

(See adv. index, end of book)

Ohio Valley Pulley Works, Maysville, Ky.
Payne, Geo. W. Co., Pawtucket, R. I.
Pittsfield Electric Co., Pittsfield, Me.
Schutz Bros., 108 Fulton, New York.
Sherwood Bobbin & Mfg. Co., Greensboro, N. C.

Spool & Bobbin Mfg. Co., Greenwood, S. C.
Tebbets, E. L. & Co., Locke's Mills, Me.
Union Shuttle Co., Lawrence, Mass.
U. S. Bobbin & Shuttle Co., Providence, R. I.
Van Riper Mfg. Co., Paterson, N. J.
Vermont Spool & Bobbin Co., Burlington, Vt.
Weatherhead, Thompson & Co., Pawtucket, R. I.
Weld Bobbin & Spool Co., 42 Island, Lawrence, Mass.

Wisconsin Textile Mfg. Co., Two Rivers, Wis.
Woodstock Hardwood & Spool Mfg. Co., Charleston, S. C.

SPOOLS (DRESSER, STEEL HEAD)

Sweet & Doyle, Cohoes, N. Y.

SPOOLS (JACK, STEEL HEAD)

Sweet & Doyle ("S. & D."), Cohoes, N. Y.

SPOOLS (SILK THREAD)

Atwood-Crawford Co., Pawtucket, R. I.
Stowell, N. S. & Co., Dixfield, Me.

SPOOLS (WARP)

Payne, Geo. W. Co., Pawtucket, R. I.

SPRINKLING MACHINES

Textile Finishing Machinery Co., 17 Exchange pl, Providence, R. I.

SQUEEZERS

Birch Bros., Somerville, Mass.
Textile Finishing Machinery Co., 17 Exchange pl, Providence, R. I.
Watson Machine Co., Paterson, N. J.

STEAMING MACHINES

Birch Bros., Somerville, Mass.
Curtis & Marble Machine Co., Worcester, Mass.
Hunter, James, Machine Co., N. Adams, Mass.
Textile Finishing Machinery Co. (Continuous), 17 Exchange pl, Providence, R. I.

STIRRUPS & LEVERS (COTTON MACHINERY)

Dixon Lubricating Saddle Co., Bristol, R. I.
Haskell, Wm. H. Mfg. Co., Pawtucket, R. I.

STOCK CLEANERS (FOUR CYLINDER)

Smith, Jas., Woolen Machinery Co., 411 Race, Philadelphia, Pa.

STOCK OILERS ("SPENCER")

Hardwood, Geo. S. & Son, 53 State, Boston, Mass.

STRAPPING MACHINES

(See also Sewing Machines.)

American Picker & Strapping Co., Providence, R. I.
Union Button Sewing Machine Co., 164 High, Boston, Mass.

STRIPPING MACHINES

Leighton Machine Co. (Sweaters, Cardigans, Collarettes & Anklets), Manchester, N. H.
Smith, Drum & Co., 2503 Canal, Phila., Pa.

SWEEP STICKS

Brusher, J. B., Norristown, Pa.
Montgomery Lumber & Mfg. Co., Montgomery, Ala.

TAPES, BRAIDS & CORDS

Barber, Wm. (Spinning Tapes), 256 Lawrence, Lowell, Mass.
Barlow, John W. Co. (Spinning), Lawrence, Mass.
Barton, F. C., 65 Worth, N. Y.
Cathcart, John & Co., 115 Franklin, N. Y.
Chapin, Geo. W., 229 Church, Phila., Pa.
Eddy & Street, Providence, R. I.
Friedberger Mfg. Co., Germantown, Pa.

Goff, D. & Sons, Pawtucket, R. I.
Hamilton, J. H. & Co., 25 White, N. Y.
Hoffman-Corr Mfg. Co., 107 Duane, N. Y.
Hope Webbing Co. (Spinning Tapes), Providence, R. I.

Kavanaugh, Geo. W., Cohoes, N. Y.
Kenyon, Jno. J. Mfg. Co., Pawtucket, R. I.
Krout & Fite Mfg. Co., Allegheny av & Emerald, Philadelphia, Pa.
Pawtucket Tape Co., Pawtucket, R. I.
Steinthal, M. & Co., 267 W. B'way, New York
Weimer Bros., 2046 Amber, Phila., Pa.
Wick Narrow Fabric Co., 710 Market, Phila., Pa.

TEASELS

Kellogg Bros., Skaneateles, N. Y.

TEMPLES

(See Loom Temples.)

TENTER CLIPS

Textile Finishing Machinery Co., 17 Exchange pl, Providence, R. I.
Winsor & Jerauld Mfg. Co., Providence, R. I.

TENTERING MACHINES

Birch Bros., Somerville, Mass.
Butterworth, H. W. & Sons Co., 2415 E York, Phila., Pa.
Heathcote, John & Son, Providence, R. I.
Kenyon, D. R. & Son, Raritan, N. J.
Stoddard, Haserick, Richards & Co., 152 Congress, Boston, Mass.
Textile Finishing Machinery Co., 17 Exchange pl, Providence, R. I.
Winsor & Jerauld Mfg. Co., Providence, R. I.
Whittie, James H., Worcester, Mass.

"T" PINS

"T" Pin Co., 39 E. 42d, New York

TESTING MACHINES (CLOTH)

How & Bassett, Norfolk Downs, Mass.
Sipp Electric & Machine Co., 1 Mill, Paterson, N. J.

TESTING MACHINES (YARN)

American Supply Co., Providence, R. I.
Firth, Wm. Co. (Goodbrandt Co.), 79 Milk, Boston, Mass.
Sweet & Doyle, Cohoes, N. Y.

***TEXTILE PARTS**

WORCESTER PRESSED STEEL CO., Worcester, Mass. (See adv. index, end of book)

THREAD BOARD (STEEL)

Houghton, L. T., Worcester, Mass.

THREAD MACHINERY

Atwood-Morrison Co., Stonington, Conn.
Willimantic Machine Co., Willimantic, Conn.

TOM-TOMS (FOR HOSIERY)

American Drying Machinery Co., 3301 N 19th, Phila., Pa.
Philadelphia Drying Machinery Co., 6721 Germantown av, Phila., Pa.
Rothe, O. P. Mfg. & Supply Co. (Ltd.), Norristown, Pa.

TRADE MARK STAMPS

Kaumagraph Co., 156 5th av, New York
Metallic Transfer Co., Irvington, N. J.

TRAVELER CLEANERS

Whitinsville Spinning Ring Co., Whitinsville, Mass.

TRAVELER CUPS

Whitinsville Spinning Ring Co., Whitinsville, Mass.

TRAVELERS (RING)

American Supply Co., Providence, R. I.
Brown Bros. Co., Providence, R. I.
Chase, F. A. & Co., Providence, R. I.
Dary Ring Traveller Co., Taunton, Mass.
De Haven Mfg. Co., 50 Columbia Heights, Brooklyn, N. Y.
Hartson, L. M., Co., N. Windham, Conn.
Jenckes, E. Mfg. Co., Pawtucket, R. I.
National Ring Traveler Co., 257 W Exchange, Providence, R. I.
Shaw, Victor Ring Traveler Co., Providence, R. I.
Standard Ring Traveler Co., New Bedford, Mass.
Sterling Mfg. Co., Fall River, Mass.
Whitaker Reed Co. ("Royal"), Worcester, Mass.

TRAVELERS (SPINNING & TWISTING)

(See Travelers, Ring.)

TRUCKS (MILL)

American Vulcanized Fibre Co. (Laminar Dept.)
1017 Market, Wilmington, Del.
Burlington Basket Co., Burlington, Ia.
Diamond State Fibre Co., Elsmere, Del.
Morris & Co., Groveville, N. J.
Spaulding-Perkins Co., No. Rochester, N. H.

TUBS (BLEACHING)

Dillon, D. M. (For Paper Mills), Fitchburg, Mass.

TURBINES

(See Index of Contents.)

TWINE BALLING MACHINES

Draper Co., Hopedale, Mass.
Loyd, Jno. Co., 562 Water, New York.

TWISTER RING OILING DEVICE

Draper Co. ("Carter"), Hopedale, Mass.

TWISTERS (CARPET)

Reed Mfg. Co. (Foot Power), Springfield, Ohio.

TWISTERS (CORDAGE)

Brownell, Geo. L., Worcester, Mass.
Lyall, J. & W., Passaic, N. J.

TWISTERS (COTTON)

Altamus, Jacob K., 2824 N 4th, Phila., Pa.
Brownell, G. L., 49 Union, Worcester, Mass.
Collins Bros., Central Falls, R. I.
Diamond Textile Machine Works, 2d & Diamond, Phila., Pa.
Draper Co., Hopedale, Mass.

Franklin Machine Co., Providence, R. I.
Howard & Bullough American Machine Co., Ltd., Pawtucket, R. I.
Lowell Machine Shop, Lowell, Mass.
Pawtucket Spinning Ring Co., Pawtucket, R. I.
Providence Machine Co., Providence, R. I.
Riley, C. E. & Co., 65 Franklin, Boston, Mass.
Stoddard, Haserick, Richards & Co., 152 Congress, Boston, Mass.
Whitin Machine Works, Whitinsville, Mass.
Whitinsville Spinning Ring Co., Whitinsville, Mass.

TWISTERS (SILK)

Atwood-Morrison Co., Stonington, Conn.
Brownell, G. L., 49 Union, Worcester, Mass.
Royle, John & Sons, Paterson, N. J.

TWISTERS (WOOL)

Brownell, G. L., 49 Union, Worcester, Mass.
Cleveland Machine Works, Worcester, Mass.
Collins Bros., Central Falls, R. I.
Fales & Jencks Machine Co., Pawtucket, R. I.
Lowell Machine Shop, Lowell, Mass.
Riley, C. E. & Co., 65 Franklin, Boston, Mass.
Smith, James, Woolen Machinery Co., 411 Race, Philadelphia, Pa.
Whittle, James H., Worcester, Mass.

TWISTERS (YARN)

Collins Bros., Central Falls, R. I.
Riley, C. E. & Co., 65 Franklin, Boston, Mass.
Smith & Furbush Machine Co., Phila., Pa.
Whittle, James H., 150 Harlow, Worcester, Mass.

WARP TYING MACHINES

Barber-Colman, 77 Washington, Boston, Mass.

WARPERS

Altamus, Jacob K., 2824 N 4th, Phila., Pa.
Atherton Machine Co., Paterson, N. J.
Atwood-Morrison Co., Stonington, Conn.
Butterworth, H. W. & Sons Co., 2415 E. York, Philadelphia, Pa.

COHOES IRON FOUNDRY & MACHINE

Co., Cohoes, N. Y. (See adv. index, end book)
Crompton & Knowles Loom Works, Worcester, Mass.

Draper Co. ("Hopedale"), Hopedale, Mass.
Eastwood, Benj., Co. (Silk, Horizontal & Swiss), Paterson, N. J.
Entwistle, T. Co., Lowell, Mass.

Globe Machine Works, 2009 Oxford, Fkd., Phila., Pa.
Howard & Bullough Am. Machine Co., Ltd., Pawtucket, R. I.
Lowell Machine Shop, Lowell, Mass.

Paterson Machine Works (Horizontal & Swiss), 46 Warren, Paterson, N. J.
Riley, C. E. & Co., 65 Franklin, Boston, Mass.
Royle, John & Sons, Paterson, N. J.
Smith & Furbush Mach. Co., Hancock & Somerset, Phila., Pa.
Whitin Machine Works, Whitinsville, Mass.

WARPERS (BALL)

Globe Machine Works, 2009 Oxford, Fkd., Phila., Pa.

WARPERS (LEESE)

Lowell Machine Shop, Lowell, Mass.

WARPERS (RIBBON)

Atherton Machine Co. (Power for Broad & Ribbon Looms), Paterson, N. J.
Royle, John & Sons, Paterson, N. J.

WARPERS (SLASHER)

Lowell Machine Shop, Lowell, Mass.

WARPERS & LINKERS (CHAIN)

Draper Co. ("Walcott"), Hopedale, Mass.
Globe Machine Works, 2009 Oxford, Fkd., Phila., Pa.

WARPING MILLS

Lever, Oswald (for Lace Looms), Lehigh av & Mascher, Phila., Pa.

WARPING MILLS (SECTIONAL)

Lever, Oswald, Lehigh av c Mascher, Phila., Pa.
Smith & Furbush Machine Co., Phila., Pa.

WARPS

Dana Warp Mills, Westbrook, Me.
Grant Yarn Co., Fitchburg, Mass.
Greene & Daniels Mfg. Co., Pawtucket, R. I.
Hoffman-Corr Mfg. Co., 55 White, N. Y.
Indian Orchard Co., Springfield, Mass.
Montgomery, J. R. Co., Windsor Locks, Conn.
Monument Mills, Housatonic, Mass.
Philadelphia Drying Machinery Co., 6721 Germantown av, Phila., Pa.
Sternberg, F. & Co., 530 B'way, New York

WASHER & FULLER COMBINED

Hunt, Rodney Machine Co., Orange, Mass.
Hunter, James Machine Co., North Adams, Mass.

WASHERS (CLOTH)

American Drying Machinery Co., 3301 N. 19th, Birch Bros., Somerville, Mass.
Hopkins Machine Works (Inc.), Bridgeton, R. I.

Hunt, Rodney Machine Co., Orange, Mass.
Hunter, James Machine Co., North Adams, Mass.

Kenyon, D. R. & Son, Raritan, N. J.
Philadelphia Drying Machinery Co., 6721 Germantown av, Phila., Pa.

Textile Finishing Machinery Co., 17 Exchange, Providence, R. I.

Watson Machine Co., Paterson, N. J.

WASHERS (WARP)

Textile Finishing Machinery Co., 17 Exchange, Providence, R. I.

WASHERS (WOOL)

Hunter, James Machine Co., North Adams, Mass.

Kenyon, D. R. & Son, Raritan, N. J.
Sargent's, C. G. Sons, Westford, Mass.

Smith, James, Woolen Machinery Co., 411 Race, Philadelphia, Pa.

Speed & Stephenson, 170 Summer, Boston, Mass.

Stoddard, Haserick, Richards & Co., 152 Congress, Boston, Mass.

Watson Machine Co., Paterson, N. J.

WASHERS (YARN)

Textile Finishing Machinery Co., 17 Exchange, Providence, R. I.

WASHING MACHINES

Hagen, A. T. Co., Rochester, N. Y., & 26 S Clinton, Chicago, Ill.

WASTE MACHINES (COTTON)

Firth, Wm. Co. (Fatham & Co.'s), 79 Milk, Boston, Mass.
Riley, C. E. & Co., 65 Franklin, Boston, Mass.

WASTE MACHINES (ENGINE CLEANING)

Riley, C. E. & Co., 65 Franklin, Boston, Mass.

WASTE SAVERS

Torrance Mfg. Co. ("Choquette"), Harrison, N. J.

WEAVING MACHINERY

(See Looms.)

WEBBING (COTTON)

Atkins & Pearce Mfg. Co., 5th & Eggleston av, Cincinnati, O.
Barton, F. C., 65 Worth, New York, N. Y.

Buffalo Weaving & Belting Co. (Belting, Halters, Girths, Bridles, Back Bands, Trunk Straps, etc.), Buffalo, N. Y.

Empire Mfg. Co., Lockport, N. Y.
Fletcher Mfg. Co., Providence, R. I.

Hoffman-Corr Mfg. Co., 55 White, N. Y.
Hope Webbing Co. (Narrow Woven Fabrics), Providence, R. I.

United States Cotton Duck Corp'n (Back Band, etc.), Continental Trust bldg, Baltimore, Md.
Vogt Mfg. & Coach Lace Co., Rochester, N. Y.

WEBBING (ELASTIC)

American Mills Co., Waterbury, Conn.
Ansonia O. & C. Co., Ansonia, Conn.
Buffalo Weaving & Belting Co., Buffalo, N. Y.
Connecticut Web Co., Bridgeport, Conn.
Harriman, Josiah, 175 Hale, Lowell, Mass.
Martin, T. & Bro. Mfg. Co., Chelsea, Mass.
Russell Mfg. Co., Middletown, Conn.
Smith Webbing Co., Pawtucket, R. I.

WELT MACHINES

Cooper, Chas. (Automatic Latch Needle), Bennington, Vt., & Amsterdam, N. Y.

WILLOWING MACHINES (WOOL)

Butterworth, H. W. & Sons' Co., Phila., Pa.
Kenyon, D. R. & Son, Raritan, N. J.

Lombard Machine Co., Worcester, Mass.
Riley, C. E. & Co., 65 Franklin, Boston, Mass.

Sargent's, C. G. Sons, Westford, Mass.
Smith, James Woolen Machinery Co., 411 Race, Philadelphia, Pa.

Smith & Furbush Machine Co. ("Proctor"), Phila., Pa.
Whittle, James H., Worcester, Mass.

WINDERS

(See also sub-divisions of this head.)

Allen, A. W. (Yarn), 2427 Mascher, Phila., Pa.
Altamus, Jacob K., 2824 N 4th, Phila., Pa.

Atherton Machine Co. (For Silk Mills), Paterson, N. J.

Atwood-Morrison Co., Stonington, Conn.
Campbell & Clute, Cohoes, N. Y.

Diamond Textile Machine Works, 2d & Diamond, Phila., Pa.

Eastwood, Benj. Co. (Silk), Paterson, N. J.
Firth, Wm. Co. (Stubbs), 179 Milk, Boston, Mass.

Foster Machine Co., Westfield, Mass.
Kennedy, Thomas, Cohoes, N. Y.

Leighton Machinery Co., Manchester, N. H.
Lever, Oswald Co., Lehigh av & Mascher, Phila., Pa.

Lowell Machine Shop, Lowell, Mass.
Lyall, J. & W., 83 Leonard, New York

Paterson Machine Works, 46 Warren, Paterson, N. J.

Payne, George W. Co. (Cop, Skein or Bobbin), Pawtucket, R. I.

Providence Machine Co., Providence, R. I.
Royle, John & Sons, Paterson, N. J.

Sipp Electric & Machine Co., 1 Mill, Paterson, N. J.

Textile Finishing Machinery Co., 17 Exchange, Providence, R. I.

Textile Machine Works, Reading, Pa.
Universal Winding Co., 95 South, Boston, Mass., & Charlotte, N. C.

Watson Machine Co., Paterson, N. J.
Whitin Machine Works, Whitinsville, Mass.

Whittle, James H., Worcester, Mass.
Wrigley, Thomas, Paterson, N. J.

WINDERS (BALL)

Franklin Machine Co., Providence, R. I.
North Chelmsford Machine Co., North Chelmsford, Mass.

WINDERS (BOBBIN)

(See Bobbin Winders.)

WINDERS (CONE)

Brigham, Arthur A. ("Broabent & Brighams"), 186 Devonshire, Boston, Mass.
 Diamond Textile Machine Works, 2d & Diamond, Phila., Pa.
 Foster Machine Co., Westfield, Mass.
 Howard & Bullough American Machine Co., Ltd., Pawtucket, R. I.
 Lever, Oswald, Lehigh av & Mascher, Phila., Pa.
 Lowell Machine Shop (Camless), Lowell, Mass.
 Stoddard, Haserick, Richards & Co., 152 Congress, Boston, Mass.
 Universal Winding Co., 95 South, Boston, Mass.

WINDERS (COP)

Altemus, Jacob K., 2824 N 4th, Phila., Pa.
 Lever, Oswald Co., Lehigh av & Mascher, Phila., Pa.
 Lindsay, Hyde & Co., 2124 E York, Phila., Pa.
 Lyall, J. & W., 83 Leonard, N. Y.
 Royle, John, & Sons, Paterson, N. J.
 Schaum & Uhlinger, N 2d & Glenwood av, Philadelphia, Pa.

WINDERS (FILLET)

Smith, Jas. Woolen Machinery Co., 411 Race, Philadelphia, Pa.

WINDERS (HAND)

Branson Machine Co., 506 N American, Phila., Pa.

WINDERS (HOSIERY)

Brigham, Arthur A. ("Broabent & Brighams"), 186 Devonshire, Boston, Mass.
 Lever, Oswald Co., Lehigh av & Moscher, Philadelphia, Pa.
 Lindley, Geo. W., Germantown, Phila., Pa.
 Payne, Geo. W. Co., Pawtucket, R. I.
 Universal Winding Co., 95 South, Boston, Mass.

WINDERS (QUILL)

Lever, Oswald, Lehigh av & Mascher, Phila., Pa.

Mack, H. A., Working Co., Weatherly, Schaum & Uhlinger, N 2d & Glenwood av, Phila., Pa.

WINDERS (SKEIN)

Brigham, Arthur A., 186 Devonshire, Boston, Mass.
 Collins Bros., Central Falls, R. I.
 Easton & Burnham Machine Co., Pawtucket, R. I.
 Foster Machine Co., Westfield, Mass.
 Lever, Oswald, Lehigh av & Mascher, Phila., Pa.

WINDERS (YARN)

Lever, Oswald Co., Lehigh av & Mascher, Philadelphia, Pa.

WINDING MACHINES (CLOTH)

Curtis & Marble Machine Co., Worcester, Mass.
 Parks & Woolson Machine Co., Springfield, Vt.
 Textile Finishing Machinery Co., 17 Exchange pl, Providence, R. I.
 Whittle, James H., Worcester, Mass.

WINDING MACHINES (HANK)

Smith, Jas. Woolen Machinery Co., 411 Race, Phila., Pa.

WINDING MACHINES (PAPER TUBE)

Altemus, Jacob K., 2824 N 4th, Phila., Pa.

WOODEN SHELLS

Martin, Adolph & Son, 270 Bloomfield av, Passaic, N. J.

WOOL BIRRING MACHINES

Curtis & Marble Machine Co., Worcester, Mass.

WOOL COMBS

(See Combs, Wool.)

WOOLEN & WORSTED MACHINERY

(See also the specific article required.)

Altemus, Jacob K., 2824 N 4th, Phila., Pa.
 Brown Cotton Gln Co., New London, Conn.
 Butterworth, H. W., & Sons' Co., Phila., Pa.
 Clark Machine & Foundry Co., Franklin, Mass.
 Clark, J. Machy. Co. (Dealers), Lowell, Mass.
 Crompton & Knowles Loom Works, Worcester, Mass.
 Curtis & Marble Machine Co., Worcester, Mass.

Dana, Geo. R. (Dealers), Lowell, Mass.
 Diamond Textile Machine Works, 2d & Diamond, Phila., Pa.
 Duckrow R. A. (Dealer), Troy, N. Y.
 Firth, Wm., Co., 79 Milk, Boston, Mass.
 Harwood, Geo. S. & Son, 53 State, Boston, Mass.
 Heathcote, John, & Son, Providence, R. I.
 Hood, R. H., 1842 Gtn. av, Phila., Pa.
 Hunt, Rodney Machine Co., Orange, Mass.
 Hunter, Jas. Machine Co., N. Adams, Mass.
 Jefferson, Edw., & Bro., 127 S. 2d, Phila., Pa.
 Kenyon, D. R. & Son, Raritan, N. J.
 Leigh, Evan Arthur, 232 Summer, Boston, Mass.
 Lombard Machine Co., Worcester, Mass.
 Lowe, Stephen C., 186 Devonshire, Boston, Mass.
 Lowell Machine Shop, Lowell, Mass.
 National Machinery Co. (Dealers), Providence, R. I.

Parks & Woolson Machine Co., Springfield, Vt.
 Payne, G. W. Co., Pawtucket, R. I.
 Phila. Drying Machinery Co., 6721 Germantown av, Phila., Pa.
 Riley, C. E. & Co., 65 Franklin, Boston, Mass.
 Sargent's, C. G. Son, Westford, Mass.
 Scott, Jas. (Dealer), 241 Chestnut, Phila., Pa.
 Smith, James Woolen Machinery Co., 411 Race, Phila., Pa.
 Smith, Geo. E. (Dealer), Cohoes, N. Y.
 Smith & Furbush Machine Co., Hancock & Somerset, Phila., Pa.
 Speed & Stephenson (Woolen & Worsted Machinery), 170 Summer, Boston, Mass.
 Stoddard, Haserick, Richards & Co., Boston, Mass.
 Street, R. R. & Co., 184-186 Washington, Chicago, Ill.
 Whittle, James H. ("Henderson's"), Worcester, Mass.
 Woonsocket Machine & Press Co., Woonsocket, R. I.

WRINGING MACHINES

Hunt, Rodney Machine Co., Orange, Mass.

YARN BEAM TRUCKS

COHOES IRON FOUNDRY & MACHINE Co., Cohoes, N. Y. (See adv. index, end of book)

YARN CHAINING MACHINES

Cole Bros., Pawtucket, R. I.

YARN PRINTING MACHINES

Brigham, Arthur A., 186 Devonshire, Boston, Mass.
 Luther, Chas. A. & Co., Pawtucket, R. I.
 (END OF TEXTILE MACHINERY)

Thalpotasimeters

SCHAEFFER & BUDENBERG MFG. CO., Foxboro, Mass. (See adv. index & branch offices, end of book)

***Theatre Brass Work**

Every Article Bearing this Trade Mark has Distinctive Merit in Craftsmanship and Artistic Finish.

 UNION EQUIPMENT AND BRONZE CO.
 514-520 WEST 36TH ST. NEW YORK

WRITE FOR PRICES

WISCONSIN IRON & WIRE WORKS, 190 E Water, Milwaukee, Wis. (See adv. index, end of book)

Theatre Curtains (Asbestos)

EHRET MAGNESIA MFG. CO., Land Title bldg, Phila., Pa. (See adv. index & branch offices, end of book)
 Johns, H. W. Manville Co., 100 William, New York
 Keasbey & Mattison Co., Main Office & Works, Ambler, Pa.
 New Jersey Asbestos Co., Camden, N. J.
 Star Asbestos Mfg. Co., North Wales, Pa.
 WATSON, H. B. CO., Erie, Pa. (See adv. index & branch offices, end of book)

Theatre Curtains (Steel)

ELEVATOR SUPPLY & REPAIR CO., 76 W Monroe, Chicago, Ill., & 136 Liberty, New York. (See adv. index, end of book)
 Union Elevator & Machine Co., 144 Ontario, Chicago, Ill.

Theatre Decorations

(See Decorations, Theatre.)

Theatre Dimmers

(See Dimmers, Theatre.)

***Theatre Mechanical Equipment**

ELEVATOR SUPPLY & REPAIR CO., 76 W Monroe, Chicago, Ill., & 136 Liberty, New York. (See adv. index, end of book)

Theatre Seating

(See Opera Chairs & Theatre Seating.)

Thermometers

American Steam Gauge & Valve Mfg. Co., 208 Camden, Boston, Mass.
 Amesbury Thermometer Co., Amesbury, Mass.
 Beckman, L. Co. (Chemical), Toledo, Ohio
 BRISTOL CO. ("Bristol's," Recording, etc.), Waterbury, Conn., & 114 Liberty, New York. (See adv. index & branch offices, end of book)
 Buffalo Specialty Mfg. Co. ("Buffalo" Distance Reading), 375 Ellicott, Buffalo, N. Y.
 Bussey Bros., Phelps, N. Y.
 Carr-Lowrey Glass Co., Westport, Baltimore, Md.
 Elmer & Amend (Chemical), 205 3d av, New York
 Electrical Appliance Co., Waterbury, Conn.
 Du Vivier, Ernest H. (Recording, Imported), 14 Church, New York
 Hoehn, R. Co. (I. Mayer & Co., Propts.), 110 E. 23d, N. Y.
 Hohman & Maurer Mfg. Co., Rochester, N. Y.
 Large, Chas. E., 232 Richardson, Bklyn., N. Y.
 National Brass & Iron Works (Metal Plated), Reading, Pa.
 National Thermometer Co. (Clinical), 927 B'way, New York
 Phila. Thermometer Co., Arch & 9th, Phila., Pa.
 QUEEN & CO. (Inc.), ((Technical)), N W c 8th & Arch, Phila., Pa. (See adv. index, end of book)
 SCHAEFFER & BUDENBERG MFG. CO., (for all Mechanical Purposes), Foxboro, Mass. (See adv. index & branch offices, end of book)
 STANDARD GAUGE MFG. CO., Syracuse, N. Y. (See adv. index, end of book)
 Standard Steam Specialty Co. ("Boston"), 542 W B'way, New York
 Tagliabue, Chas. J. Mfg. Co., 53 Fulton, N. Y.
 Taylor Bros., Rochester, N. Y.
 Wagner, Carl, 1061 N Albany, Chicago, Ill.
 Weinlagen, Henry (For Laboratory, Factory, etc.), 22 N William, New York
 Wilder, Chas. (Est. of), Peterboro, N. H.

Thermometers (Chemical)

Elmer & Amend, 205 3d av, New York
 National Thermometer Co., 927 B'way, N. Y.
 SCHAEFFER & BUDENBERG MFG. CO., Foxboro, Mass. (See adv. index & branch offices, end of book)

Thermometers (Heating)

American Steam Gauge & Valve Mfg. Co., 208 Camden, Boston, Mass.
 Amesbury Thermometer Co., Amesbury, Mass.
 Ashton Valve Co., 271 Franklin, Boston, Mass.
 CROSBY STEAM GAGE & VALVE CO., 97 Oliver, Boston, Mass. (See adv. index & branch offices, end of book)
 Gurney Heater Mfg. Co., 188 Franklin, Boston, Mass.
 Hohmann & Maurer Mfg. Co., Rochester, N. Y., & 85 Chambers, N. Y.
 QUEEN & CO. (Hot Water), N W c 8th & Arch, Phila., Pa. (See adv. index, end of book)
 SCHAEFFER & BUDENBERG MFG. CO., Foxboro, Mass. (See adv. index & branch offices, end of book)

STANDARD GAUGE MFG. CO., Syracuse, N. Y. (See adv. index & branch offices, end of book)
Taylor Bros. Co., 29 Elizabeth, Rochester, N. Y.

*Thermometers (Hot Well)

SCHAEFFER & BUDENBERG MFG. CO., Foxboro, Mass. (See adv. index & branch offices, end of book)
STANDARD GAUGE MFG. CO., Syracuse, N. Y. (See adv. index & branch offices, end of book)

Thermometers (Oven)

Cooper, D. G., Pequabuck, Conn.
Electrical Appliance Co., Waterbury, Conn.
Evans Stamping & Plating Co. ("Acme"), Taunton, Mass.

Thermometers (Resistance)

Central Laboratory Supply Co. (Vawter "Recording"), La Fayette, Ind.

Thermometers (Steam & Hot Water)

(See Thermometers, Heating)

*Thermometers (Thermostat)

BRISTOL CO., Waterbury, Conn., & 114 Liberty, New York. (See adv. index & branch offices, end of book)

*Thermometers (Vacuum Pan)

SCHAEFFER & BUDENBERG MFG. CO., Foxboro, Mass. (See adv. index & branch offices, end of book)

Thermostats

(See also Regulators, Heat.)

Acton, Jno., 118 John, Brooklyn, N. Y.
Amesbury Thermometer Co., Amesbury, Mass.
Beers Bros., Rochester, N. Y.
H. & M. Automatic Regulator Co. (House or Car), Newark, N. J.
Howard Thermostat Co., Oswego, N. Y.
Johnson Service Co., Milwaukee, Wis.
Kieley & Mueller (For Hot Water Tanks, Etc.), 34 W 13th, New York
National Regulation Co. (For Control of Dampers & Valves in a Heating Apparatus), 534 Dearborn, Chicago, Ill.
Norwall Mfg. Co. ("Allen"), 138 Jackson, Chicago, Ill.
Standard Steam Specialty Co. ("Boston" Boiler), 542 W B'way, N. Y.

Thimbles (Chimney)

Dunlap Mfg. Co. ("Holdfast"), Dunlap, Ia.
Glendron, L. A. & Co., Warren, Mass.
Seiner, Chas. F., Indianapolis, Ind.
Sterling Foundry Co. ("The Best"), Sterling, Ill.

Thimbles (Fire-Place)

American Auto Brass Co., Columbus, Ohio.
Gendron, L. A. & Co., "Gendron's," Warren, Mass.

INDIANAPOLIS STEEL ROOFING & CORRUGATING CO., Indianapolis, Ind. (See adv. index, end of book)

Thimbles (Wire Rope)

Broderick & Rascom Rope Co. (Steel), 809 N Main, St. Louis, Mo.
Contractors' Plant Mfg. Co., 129 Erie, Buffalo, N. Y.
Durable Wire Rope Co., 28 Atlantic av, Boston, Mass.
Hazard Mfg. Co., Wilkes-Barre, Pa., & 50 Dey, New York
Hubbard & Co., Pittsburg, Pa.
Jackson Mfg. Co., Harrisburg, Pa.
Laughlin, Thos. & Co. (Steel), Portland, Me.
Leschen, A. & Sons, Rope Co., 920 N 1st, St. Louis, Mo.

Macomber-Whyte-Moon Co., 122 Centre, New York
MACOMBER & WHYTE ROPE CO., 21 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
Trenton Iron Co., Trenton, N. J., & 17 Burlington slp, N. Y.
Western Block Co. (Steel), Lockport, N. Y.
Wilcox, Crittenden & Co., Middletown, Conn.
WRIGHT WIRE CO., Worcester, Mass. (See adv. index & branch offices, end of book)

*Third Rail Block System

WESTINGHOUSE ELECTRIC & MFG. Co., Westinghouse bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

*Third Rail System (Electric)

(See also Insulators, Third Rail.)

GENERAL ELECTRIC CO., Schenectady, N. Y., & 44 Broad, N. Y. (See adv. index & branch offices, end of book)
WESTINGHOUSE ELECTRIC & MFG. Co., Pittsburg, Pa. (See adv. index & branch offices, end of book)

Threaders (Wire Rod)

Goodell-Pratt Co. ("Peck's" Can be Held in any vice), Greenfield, Mass..

Thresher Teeth

Akron Machine Co., Akron, O.
Avery Mfg. Co., Peoria, Ill.
Christian, Jno., San Jose, Cal.
Keystone Drop Forge Works, (Drop Forged), Chester, Pa.
Port Huron Engine & Thresher Co., Port Huron, Mich.
Rhode Island Tool Co., (Steel), Providence, R. I.
Transue & Williams Co. (Drop Forged), Alliance, O.
WHITMAN & BARNES MFG. CO., Chicago, Ill. (See adv. index & branch offices, end of book)

Threshers

Advance Thresher Co., Battle Creek, Mich.
Aultman Engine & Thresher Co., Canton, Ohio
Aultman & Taylor Machinery Co., Mansfield, O.
Avery Mfg. Co., ("Avery"), Peoria, Ill.
Belle City Mfg. Co. (Small), Racine, Wis.
Bidwell C. H. Thresher Co. (Inc.), (Bean, etc.), Batavia, N. Y.
Bowen & Quick, Auburn, N. Y.
Buffalo, Pitts Co., Buffalo, N. Y.
Cardwell Machine Co. (Rice, etc.), Richmond, Wis.
Case, J. I., Threshing Machine Co., Racine, Wis.
Chalfant's, Jno. N. Sons, Lenover, Pa.
Champion Thresher Co., Orrville, O.
Coleman Mfg. Co., Peoria, Ill.
Deats, Hiram, Jr. (Little Wonder), Pittston, N. J.
Ellis Keystone Agricultural Works ("Ellis-Champion" Thresher & Cleaner), Pottstown, Pa.
Fairbanks Steam Shovel Co., Marion, O.
Farquhar, A. B. Co. (Also Rice), York, Pa.
Frick Co., Waynesboro, Pa.
Gaar, Scott & Co. (Also Rice), Richmond, Ind.
Gelser Mfg. Co., Waynesboro, Pa.
Gill, W. E. (Corn & Oats Separators), Lake Geneva, Wis.
Grant-Ferris Co. (Combined Oats & Straw, etc.), Troy, N. Y.
Gray's, A. W. Sons, Middletown, Vt.
Harder Mfg. Co., Cobleskill, N. Y.
Harrison Machine Works ("Great Western"), Belleville, Ill.
Heebner & Sons ("Little Giant," "Pennsylvania"), Lansdale, Pa.
Heilman Machine Works, Evansville, Ind.
Huber Mfg. Co., Marion, O.
Hunt, Gilbert Co., Walla Walla, Wash.
Keck-Gonnermann, Mt. Vernon, Ind.
Keller Mfg. Co., Sauk Center, Minn.
Kelly, O. S. Mfg. Co., Iowa City, Ia.
Kingsland Mfg. Co., St. Louis, Mo.
Kitten, F. Foundry & Machine Works, Ferdinand, Ind.
Marion Mfg. Co. ("Leader"), Marion, O.
Massillon Engine & Thresher Co., Massillon, O.
Messinger Mfg. Co. (Thresher, Separator & Cleaner), Tatamy, Pa.

Minneapolis Threshing Machine Co., Minneapolis, Minn.
Morningstar Mfg. Co., Napoleon, O.
New Jersey Agricultural Works (Butterworth Bros.), Trenton, N. J.
Nichols & Shepard Co., Battle Creek, Mich.
Northwest Thresher Co., Stillwater, Minn.
Parlin & Orendorff Co., Canton, Ill.
Port Huron Engine & Thresher Co., Port Huron, Mich.
Reeves & Co., Columbus, O.
Rittenhouse, C. & Sons, Norristown, Pa.
Robinson & Co., Richmond, Ind.
Rumley, M. Co., Laporte, Ind.
Russell & Co., Massillon, O.
St. Albans Foundry & Implement Co., St. Albans, Vt.
St. Johnsville Agricultural Works, St. Johnsville, N. Y.
Star Mfg. Co. (Corn), Carpentersville, Ill.
Stevens, A. W. Co., Marinette, Wis.
Westinghouse Co. (Combined Grain & Clover, etc.), Schenectady, N. Y.

Threshers (Bean & Pea)

Buffalo Pitts Co. (Threshers & Cleaners), Buffalo, N. Y.
Nancy Hanks Hay Press & Foundry Co. (Pea), Dalton, Ga.

Threshers (Corn)

Appleton Mfg. Co., Batavia, Ill.
Port Huron Engine & Thresher Co., Port Huron, Mich.
Star Mfg. Co., Carpentersville, Ill.
Whitman Agricultural Co., St. Louis, Mo.

Threshers (Rice)

Aultman & Taylor Machinery Co., Mansfield, O.
Harrison Machine Works ("Belleville"), Ill.

Threshers (Straw Preserving & Rye)

Case, J. I., Threshing Machine Co., Racine, Wis.
Eddy, W. Plow Co., Greenwald, N. Y.
Grant-Ferris Co. (Combined Oats & Straight Straw Rye), Troy, N. Y.
Harder Mfg. Co. (Rye Thresher, Cleaner & Binder Combined), Cobleskill, N. Y.
New Jersey Agricultural Works (Butterworth Bros.), Trenton, N. J.
Port Huron Engine & Thresher Co., Port Huron, Mich.
Reeves & Co. (Rye), Columbus, Ind.
Westinghouse Co., Schenectady, N. Y.

Threshers & Cleaners (Peanut)

Ellis Geystone Agricultural Works, Pottstown, Pa.

*Throttles for Generator Valve

LUNKENHEIMER CO. (The Union), General Offices & Works, Beekman & Waverly, Cincinnati, O. See adv. index & branch offices, end of book

Ticket Choppers & Destroyers

(See also Boxes, Ticket Cancelling.)

Globe Ticket Co., 112 N 12th, Phila., Pa.
Patten, Paul B., Salem, Ohio.

Tickets & Transfers (Street Railway)

Globe Ticket Co., 112 N 12th, Phila., Pa.
National Ticket Co., 205 St. Clair, N. E., Cleveland, O.
Ohmer Fare Register Co. (Transfers & Transfer Issuing Machines), Dayton, O.
Stromberg, Allen & Co., 302 Clark, Chicago, Ill.

Ties (Bale)

Adams Steel & Wire Works, Joliet, Ill.
AMERICAN STEEL & WIRE CO., The Rookery, Chicago, Ill. (See adv. index & branch offices, end of book)
Atlanta Steel Hoop Co., Atlanta, Ga.
Blakeslee, G. S. & Co., 325 Dearborn, Chicago, Ill., & 260 W B'way, New York
†Carnegie Steel Co. (Steel), Carnegie bldg., Pittsburg, Pa.
Consolidated Fence Co., Iowa City, Ia.

Crawfordsville Wire & Nail Co., Crawfordsville, Ind.
 De Haven Mfg. Co., 50 Columbia Heights, Brooklyn, N. Y.
 Des Moines Bale Tie Co., Des Moines, Ia.
 Dillon-Grissold Wire Co. (Steel), Sterling, Ill.
 Downey, W. C. & Co. (Hay & Straw, Excelsior, etc.), Springfield, O.
 Ertel, Geo. Co., Quincy, Ill.
 Grand Crossing Tack Co., S. Chicago av. & 79th, Chicago, Ill.
 Griswold Wire Co., Braddock, Pa.
 Harry, Owen K., Papin & Jefferson, St. Louis.
 Indiana Steel Wire Co., Muncie, Ind. Mo.
 Joliet Bale Tie Co., Joliet, Ill.
 Kansas City Hay Press Co., Kansas City, Mo.
 Keystone Fence Co., Peoria, Ill.
 Kilmer, M. D., Bale Tie Co. (Steel Wire), 1062 Hamilton, Cleveland, O.
 National Wire Corporation (Wire), New Haven, Conn.
 Sandwich Mfg. Co., Sandwich, Ill.
 Shields, Wm. H., Troy N. Y.
 Western Steel & Wire Co., Kansas City, Mo.
 Wilson, H. P. & H. F., 577 10th av, New York

Ties (Concrete Steel, Railroad)

Affleck Concrete Steel Tie Co., Chesterton, Ind.
 Blessing, Louis, Jackson, Mich.

Ties (Cotton)

AMERICAN STEEL & WIRE CO.,
 The Rookery, Chicago, Ill. (See adv. index & branch offices, end of book)
 Atlanta Steel Hoop Co., Atlanta, Ga.
 Bierce, Wm. W. (Ltd.) (Jobber), Hennen bldg., New Orleans, La.
 Carnegie Steel Co. (Steel), Carnegie bldg., Pittsburgh, Pa.
 Pittsburg Steel Co., Frick bldg., Pittsburg, Pa.
 Sharon Steel Hoop Co., Sharon, Pa.
 Sheffield Rolling Mill Co., Sheffield, Ala.

*Ties or Compressors (Fodder)

HEARTLEY MACHINE, VARIETY IRON & Tool Works, Toledo, Ohio. (See adv. index, end of book)

Ties, Poles & Posts

(See also Poles, Iron & Steel Trolley, also Lumber Mfrs.)

ALABAMA.

CARNEY—Carney Lumber Co. (Ties)
 COFFEE SPRINGS—Harris & Scandrett (Ties)

ARKANSAS.

PARAGOULD—Bertig Bros (Ties)

CALIFORNIA.

SAN FRANCISCO—Albion Lumber Co. (Ties), Crocker bldg
 Bender Bros. (Ties & Posts), 5 Market
 Byxbee & Roberts (Ties), 48 Market
 Carter, Geo. E. & Co. (Ties, Posts, etc.), Crocker bldg
 Caspar Lumber Co. (Ties), Hayward bldg
 Devoto & Pedrini (Ties), 1230 Battery
 Gray, Geo. D. & Co., 421 Market
 Hanify, J. R. & Co. (Ties), 200 Market
 Hooper, C. A., & Co. (Ties), 204 Front
 Nelson, Chas., Co., 6 Calif.
 Pacific Lumber Co. (Inc.) (Ties, etc.), Rialto bldg
 Pacific Pine Co. (Ties), 237 California
 Richardson Co., 6 Calif.
 San Francisco Timber Preserving Co. (Ties), 223 Folsom
 Union Lumber Co. (Poles & Ties), Crocker bldg
 Union Wood & Timber Co., 1230 Battery
 Western Redwood Lumber Co. (Poles, Posts, etc.), 331 Pine
 White, L. E., Lumber Co. (Ties, Etc.), 303 California
 Wood, E. K., Lumber Co., 6 California

COLORADO.

DENVER—McGavic & Hanna (Ties), Bank Teller, J. C. (Ties), Equitable bldg blk

CONNECTICUT.

BRIDGEPORT—Stowe Bros. & Co. (Poles, etc.)
 NEW HAVEN—Upson & Grannis (Poles, etc.)

FLORIDA.

JACKSONVILLE—Hunter, Dexter (Ties)
 Hunter, Dexter (Ties)

GEORGIA.

ADEL—Lewis & Wright (Ties)
 BELLVILLE—Tippens, G. W. (Ties)
 BINGHAM—Dorminey, Kirkland & Co.
 BROOKER—Hinson, E. & Sons (Ties)
 BRUNSWICK—Aiken, Frank D. (Mfrs. Agt., Broadhead, Jas. E. (Ties, etc.) (Ties)
 Brown & Co. (Ties, etc.)
 Brunswick Crosstie & Creosoting Co.
 Emanuel, N. & Co. (Ties)
 Odham, L. D. (Ties)
 FACEVILLE—Rogers, J. T. (Cross Ties)
 DARIEN—Hilton & Dodge Lbr. Co.
 McPharland & Young (Ties)
 CUTLER—King, N. B. (Ties)
 SAVANNAH—Baxter, G. S. & Co. (Cross Ties)
 Cooney, Eckstein & Co. (Cross Ties)
 Craig, G. F., & Co. (Cross Ties)
 Dixon Lumber Co., Liberty & Wheaton
 Emanuel, N., & Co. (Cross Ties)
 Georgia Pine Lumber Co.
 Granger & Lewis (Cross Ties)
 Heard Lumber Co.
 Hirsch, C. S. & Co. (R. R. Ties, etc.), 128 Provident bldg
 Southern Pine Co. (of Ga.) (Ties, etc.)
 Wooley Tie Co.
 THOMASVILLE—Watt, Jas., Bro. & Co. (Ties)

IDAHO.

SAND POINT—Humberd Lumber Co., Ltd. (Red Cedar Poles)
 Sand Point Cedar Co. (Red Cedar Poles)

ILLINOIS.

CHICAGO—Ayer & Lord Tie Co. (R. R. Ties), Railway Ex. bldg
 Beidler, Francis & Co. (Idaho Cedar & Michigan White Cedar Poles, 40 ft. & up), W 22d & Loomis
 Continental Lumber Co. (Ties, Poles & Posts), Monadnock bldg
 Deeves, G. H. Lbr. Co. (Ties), Railway Exchange
 Fowler, Jno. H. & Co. (Cedar Ties, Poles, etc.), 279 Dearborn
 Gillis & Moulton (Ties, Poles & Posts), 204 Dearborn
 Holcomb-Lobb Co. (Ties, Poles & Posts (Cedar), 204 Dearborn
 Kellogg Switchboard & Supply Co. (White Cedar Poles, etc.), W Congress cor Green
 Lake Superior Piling Co. (Poles & Posts), 254 W. 22d
 Lindsley Bros. Co. (Idaho Cedar & Michigan White Cedar Poles), 143 Dearborn
 Marsb & Bingham (Ties), Old Colony bldg
 Mueller, Wm. Co. (R. R. Ties, Cedar Posts, etc.), Marquette bldg
 Naugle, E. E., Tie Co. (Ties, Poles & Posts), 226 LaSalle
 Palmer, W. C. B. (Poles & Posts), Robey nr Blue Island av
 Raber & Watson (Cedar Ties, Poles & Posts), Old Colony bldg
 Ripley, Wm., & Son (Ties), 36 LaSalle
 Schultz Bros. (Ties, Poles & Posts), Old Colony bldg
 Stone, Frank B. (Ties, Poles & Posts), 9 Jackson boul
 Valentine-Clark Co. (Cedar Poles, Telegraph Poles, Railroad Ties, etc.), 234 LaSalle
 Worcester, C. H. Co., Tribune bldg
 McLEANSBORO—Wilson, Jno. H. (Ties)

INDIANA.

ELKHART—Mann Cedar Co. (Ties, etc.)
 EVANSVILLE—Gray Tie Co. (Cross Ties & Timber), B. M. A. bldg
 MEDORA—Medora Milling Co. (Chestnut Poles 40 ft. & up)
 RICHMOND—Johnson, B., & Son (R. R. Ties, Piles, etc.)

KENTUCKY.

BURNSIDE—Wheeler, Holden Co. (R. R. Ties)
 JACKSON—Day Bros. Co. (Ties)
 LOUISVILLE—Hughes, W. J. & Sons Co. (Cedar Posts)
 Ohio Valley Tie Co. (R. R. Ties)

LOUISIANA.

DONNER—Bibert, Stark & Brown Cypress Co. (Hewn & Sawed Ties)
 NEW ORLEANS—American Creosoting Works (Creosoted Ties & Poles)
 SLIDELL—Salem Brick & Lmbr. Co. (Hensol & Foundation Piling)

MARYLAND.

BALTIMORE—Hoskins, J. S. Lumber Co. (Ties, Poles & Posts)
 BRANDYWINE—Robinson, A. T. (Ties)

MICHIGAN.

AU SABLE—Loud's, H. M. Sons Co. (Ties)
 BAY CITY—Maltby Cedar Co. (Ties, Poles & Posts)
 Michigan Pipe Co. (Ties, Poles & Posts, Creosoted)
 BOVEE—Robinson & Freeman (R. R. Ties, Poles & Posts)
 BOYNE CITY—White, Wm. H., & Co. (Cedar Ties & Posts)
 DAGGETT—Perrizo & Sons (Poles & Posts)
 DETROIT—Brownlee & Co. (Poles & Posts), Telegraph bldg
 Dennis & Smith Lbr. Co., 4th & Holden avs.
 Detroit Cedar & Lumber Co., Chamber of Commerce bldg
 Detroit Lumber Co., ft. of Chene
 Grace Harbor Lumber Co. (Ties, Poles and Posts)
 Standard Tie Co., Cham. of Com. bldg
 ESCANABA—Erickson & Bissell (Cedar Ties, Poles, Posts & Tiling)
 Pittsburg & Lake Superior Iron Co. (Cedar Ties, Poles, Posts & Piling)
 GRAND RAPIDS—Union City Lumber Co.
 HARDWOOD—Anderson, P. J.
 HERMANVILLE—Wisconsin Land & Lumber Co. (Cedar Ties, Poles & Posts)
 HONOR—Guelph Patent Cask Co. (Ties)
 INGALLS—Carley, Ira
 MENOMONEE—Girard Lumber Co. (Poles & Posts)
 Huebel, C. J., Co. (Idaho Cedar & Michigan White Cedar Poles 40 ft. & up)
 MONROE—Sterling, W. C. & Son (Ties, Electric Light Poles, etc.)
 MULLET LAKE—Rittenhouse, John C. (Ties, Poles & Posts)
 NEWHALL—Pittsburg & Lake Superior Iron Co. (Cedar Ties, Poles & Posts)
 OMER—Sterling, W. C. & Son (Ties, Poles & Posts)
 ONAWAY—Lobdell & Bailey Mfg. Co. (Ties, Poles & Posts)
 OSCODA—Loud's, H. M. Sons Co. (Poles & Posts)
 RAPID RIVER—Madden, Jerry, Shingle Co.
 SAGINAW—Morse Cedar Co. (Cross Ties, Telephone & Telegraph Poles & Cedar Posts)
 Porter Cedar Co. (Poles & Posts, Cedar)
 ST. IGNACE—Connor & Bissell (Cedar Ties, Telegraph Poles, etc.)
 VANDERBILT—Sterling, W. C. & Son

MINNESOTA.

CLOQUET—Cloquet Tie & Post Co.
 DULUTH—Duluth Log Co.
 Lake Superior Piling Co. (Poles & Posts), Martin Bros.
 Torrey bldg
 Martin, L. R. (Ties, Poles & Posts)
 Sherwood, Wm. C. (Ties, Poles & Posts)
 MINNEAPOLIS—Backus-Judd Lumber & Cooperage Co. (White Cedar Poles)
 Bradley-Watkins Co. (Ties, White Cedar, Lumber Ex.
 Coolidge, M. H., Co. (Ties, Telegraph & Telephone Poles), Guaranty bldg
 Everts & Fall (Ties, Poles & Posts), 400 Lumber Ex.
 Minneapolis Cedar & Lumber Co., Lumber Excb.
 Pillsbury-Watkins Co., Lumber Ex.

MISSOURI.

CABOOL—Grant, S. W. (Posts, etc.)
 ELDON—Harvey & Phillips (Ties)
 KANSAS CITY—Sedgwick Tie Co. (Ties, Poles, etc.), Beals Bldg.
 MONTGOMERY CITY—Ferguson & Co. (R. R. Ties)
 POPLAR BLUFF—Jacobs, E.
 ST. LOUIS—Abeles & Taussig (Ties), Commercial bldg
 Bagnell Timber Co. (Ties), 706 Chestnut
 Berthold & Jennings (Piling Telegraph Poles, etc.), 721 Olive
 Chicago Lumber & Coal Co. (Poles, Posts & Heller, Michael J. (Ties), 509 Chestnut
 Hearne Timber Co. (White & Red Oak Ties, Cypress Poles & Piling), Mermood & Jaccard bldg.
 Moss, T. J. Tie Co. (Oak, Cypress & Chestnut Ties & Cypress Trolley Poles), 319 N 4th
 Western Tie & Timber Co. (Ties), 313 N 9th

MONTANA.

HERON—Churchill Cedar Co.

NEW HAMPSHIRE.

MILFORD—Pelree, W. E. & Co. (Ties, Poles & Posts)

NEW JERSEY.

CAMDEN—Baird, David & Co. (Poles & Posts, Trolley, etc.)
 FLEMINGTON—Broadhead, J. E. (Ties, etc.)

NEW YORK.

ALBANY—Hunter, Dexter (Ties), Water & Lawrence
 BUFFALO—Curtiss, W. L. (Ties), Prudential Elias, G. & Bro., 965 Elk Bldg.
 Wheeler-Holden Co., Erie Co., Bank bldg
 ELLENVILLE—Cox Bros. (Ties, Poles, Posts, etc.)
 NEW YORK—Baxter, G. S. & Co. (Ties), 17 William
 Consolidated Cross Tie Co., 27 William
 Cooney, Eckstein & Co. (R. R. Ties), 66 Corbett & Co., 429 E 109th Broad
 Eccleston Lumber Co. (Ties, Poles & Posts), 44 B'way
 Hirsch, C. S. & Co. (Ties, etc.), 29 B'way
 Hunter, Dexter (Ties), 18 B'way
 Phelan, Dan'l W., 277 B'way
 Richardson, G. E., 123 Liberty
 Roper, John L. Lumber Co. (Ties), 18 B'way
 Southern Exchange Co. (White Cedar, Juniper & Yellow Pine Poles), 99 Warren
 Vanderbilt, Edw. W. (Ties), 126 Liberty
 WAVERLY—Baldwin, H. J. & Son (Ties)

OHIO.

CINCINNATI—Chaney, W. G., Swift bldg
 Doran & Co., Bell Block
 Farrin, M. B. Lumber Co. (Oak R. R. Ties, Posts, etc.), Winton pl
 Keefer Railway Tie Co., Bell Block
 CLEVELAND—Colonial Lumber Co. ("Railroad Ties") Williamson bldg.
 IRONTON—Ironton Cross Tie Co. (Ties)
 TOLEDO—Bissell, F., Co.

OREGON.

PORTLAND—Broughton & Wiggins Co., 92 1st
 Lindsley Bros. Co. (Ties, Poles & Posts), Sherlock bldg

PENNSYLVANIA.

LANCASTER—Kalbach, A. M.
 LIVERPOOL—Grubb, M. H. (Ties only)
 PHILADELPHIA—Greenbrier Pole Co., Real Estate Trust Co. Bldg.
 Hollowell, E. B. & Co. (Ties, Poles & Posts), Harrison bldg
 Howard Supply Co. (Ties), Witherspoon bldg
 Kirby & Hawkins Co. (Ties), Arcade Bldg.
 Massy Railway Supply Co. (Ties, Poles & Posts), Phila. Bourse
 Maus, H. H. & Co. (R. R. Ties, Poles, etc.), Walnut
 Roper, Jno L. Lumber Co. (Ties), Girard bldg

Union Railway Supply Co. (Electric Railway Ties & Poles), Real Estate Trust bldg

PITTSBURG—Enos, W.-B. & Co. (Ties), Con-estoga Bldg.
 Gillespie, D. L. & Co. (Ties), 541 Wood
 Glenn-Kline Lumber Co. (Ties, Posts & Piling), 5941 Baum
 Mead & Speer Co. (Ties), Park Bldg.
 Thompson, Dwight (Cross Ties), House
 ROCKWOOD—Wolf, Penrose (Ties) bldg
 THOMPSONTOWN—Thompson, Theo. S. (Est-ate of) (Ties)
 TIONESTA—Forman, H. M. (Ties)

SOUTH CAROLINA.

ALCOLU—Alderman, D. W. & Sons Co. (Oct-agonal or Square Poles)
 CHARLESTON—Anderson Lumber Co. (Ties)
 MAYESVILLE—Bland, Jas. F. (Cross Ties)

TENNESSEE.

LEWISBURG—Houston & Liggett (Cedar Poles & Posts)
 MEMPHIS—Merlith, J. P. Cedar Co., Equit-able Bldg.
 NASHVILLE—Ransom, Jno. B. & Co. (Red Cedar Posts & Poles)

TEXAS.

BEAUMONT—Keith Lumber Co. (Ties)
 GALVESTON—Heiskell, Jas. M. (E. R. Ties), Wilson, D. M. & Co. (Ties)
 HOUSTON—Emporia Lumber Co. (Ties)
 Kirby Lumber Co. (Ties, etc.)

VIRGINIA.

NORFOLK—Roper, Jno. L. Lumber Co. (Ties), 3 Division
 PORTSMOUTH—Wyckoff Pipe & Creosoting Co. (Creosoted Ties & Poles)
 RICHMOND—Conquest, Pleasanton L. (Ties), 1001 E. Main
 Johnson & Briggs (Ties), 819 E Main
 Richmond Tie & Lbr. Co. (Ties), 4 N. 10th
 TALLEYSVILLE—Richardson, B. E. (Ties)

WASHINGTON.

PORT BLAKELEY—Port Blakeley Mill Co. (Ties)
 SEATTLE—Folsom, F. H. (Ties, Poles, etc.), Colman Dock
 Gammell, Arthur (Cedar Poles, Fir Piling, Masts & Spars, etc.)
 Pacific Fir Co. (Ties), D. Horton Bank bldg
 Puget Sound Timber Preserving Co., Globe bldg

WEST VIRGINIA.

HUNTINGTON—Howard Supply Co. (Ties)
 TERRA ALTA—Rinard Bros. (Poles, etc.)

WISCONSIN.

CLINTONVILLE—Torrey Cedar Co. (Poles & Posts)
 DUNBAR—Girard Lumber Co. (Ties, Poles & Posts)
 MARINETTE—Worcester, C. H. Co. (Cedar Poles)
 Wright Bros.
 MARSHFIELD—Connor, R. Co., (Cedar Poles & Posts)
 WASHBURN—Jacobs-McDonnell Co. (Cedar Posts, etc.)
 WITTENBERG—Glaubitz, R. B. (Posts & Poles)

Ties (Steel Railroad)

American Railway Steel Tie Co., 42 B'way, New York
 Carnegie Steel Co., Carnegie bldg, Pittsburgh
 Jones & Laughlin Steel Co. ("McCune"), Pittsburgh, Pa.
 KOPPEL, ARTHUR CO., 68 Broad, New York. (See adv. index & branch of-fices, end of book)
 WIENER, ERNST CO., 68 Broad, New York (See adv. index, end of book)
 Quincy-Manchester-Sargent Co., Old Colony bldg, Chicago, Ill., & 114 Liberty, New York

Tile (Art & Decorative)

(See also Tile, Encaustic Floor.)

Alhambra Tile Co., Newport, Ky.
 American Ceramic Corporation (Vitrious), 1 Madison av., N. Y.
 American Encaustic Tiling Co., Zanesville, O., & 1123 B'way, New York
 Beaver Falls Art Tile Co., Beaver Falls, Pa.
 Cambridge Tile Mfg. Co., Covington, Ky.
 Imperial Porcelain Works, Trenton, N. J.
 JACKSON, WM. H. COMPANY (Dealers in all kinds of Art & Decorative Tiles), 29 E 17th (Union Square), N. Y. (See adv. index, end of book)
 Lage, (Mrs.) Bernhard H., 484 Greenwich, New York, Factory, Menlopark, N. J.
 Mosaic Tile Co., Zanesville, Ohio.
 Matawan Tile Co., Matawan, N. J.
 National Tile Co., Anderson, Ind.
 New Jersey Tile Co., Trenton, N. J.
 Ohio Tile Co., Hamilton, O.
 Opalite Tile Co., Monaca, Pa.
 Pardee, C. Works, Perth Amboy, N. J.
 Penn Tile Co., 9 W State, Trenton, N. J.
 Providential Tile Co., Enterprise av. & Plum, Trenton, N. J.
 Robertson Art Tile Co., Trenton, N. J.
 Star Encaustic Tile Co., Pittsburgh, Pa.
 Trent Tile Co., Trenton, N. J.
 U. S. Encaustic Tile Co., Indianapolis, Ind.

Tile (Bake Oven)

La Clede Fire Brick Mfg. Co., St. Louis, Mo.
 MAURER, HENRY & SON, 420 E. 23d, N. Y.; Penna. bldg, Phila., Pa. Works, Maurer, N. J. (See adv. front inside cover)
 Presbrey Stove Lining Co., Taunton, Mass.

Tile (Cork)

Nonpareil Cork Works, 105 Hudson, New York

Tile Dealers (Floor & Wall)

(See Mantel, Grate & Tile Dealers.)

Tile (Drain)

Alken Fire & Ornamental Brick Co., Aiken, S. C.
 Akron Vitrified Clay Mfg. Co., Akron, O.
 Allen, Geo., Jeffersonville, O.
 American Brick & Tile Co., Mason City, Ia.
 American Clay Mfg. Co., Akron, O.
 American Clay Products Co., Chamber of Commerce bldg, Chicago, Ill.
 Argillo Works, Rock Island, Ill.
 Bennett, M., Sidney, O.
 Bennett, W. F. & Co., Galena, O.
 Boynton, C. W., Sewaren, N. J.
 Brandt Clay Product Co., Binghamton, N. Y. Works, Brandt, Pa.
 Butte Sewer Pipe & Tile Co., Butte, Mont.
 Clarke, N. & Sons, 17 Spear, San Francisco, Cal., & Alameda, Cal.
 Clarke & Leacock, Keota, Ia.
 Clearfield Clay Working Co., Clearfield, Pa.
 Cooper, Jno., 496 Oakland, Brooklyn, N. Y.
 Dale Brick Co., Des Moines, Ia.
 Dawson Brick & Tile Co., Springfield, Ill.
 Denny-Renton Clay & Coal Co., Seattle, Wash.
 Dickey, W. S. Clay Mfg. Co., Kansas City, Mo.
 Diefenthaler Co., Millbury, O.
 Dorney & Harris, Findlay, O.
 Duffy, J. P. Co., 440 E 138th, New York
 Evens & Howard Fire Brick Co., 920 Market, St. Louis, Mo.
 Everal, J. W., Westerville, O.
 First Av Brick & Tile Co., Evansville, Ind.
 FISKE & COMPANY (Inc.), 161 Devonshire, Boston, Mass., & Flatiron bldg, New York (See adv. index, end of book)
 Fox, E. P., Sheffield, Ia.
 Gerhard, Frank J., 236 18th av, Newark, N. J.
 Goodell, Adison Tile Works, Loda, Ill.
 Goodwin Tile & Brick Co., Grand Junction, Ia.
 Hickory Run Brick Co., Ailenton, Pa.
 Hillsboro Brick & Tile Co., Hillsboro, Ill.
 Hutchins, Jno. A. & Co., Wyoming, Pa.
 Iowa Pipe & Tile Co., Des Moines, Ia.
 Jackson, Jno. H., 142 3d av, Albany, N. Y.
 Joliet Mound Drain Tile Co., Joliet, Ill.
 Lancaster Brick & Tile Co., Builders' Exchange, Buffalo, N. Y.
 Lincoln Coal Co., Lincoln, Ill.
 Little Falls Fire Clay Co., Tacoma, Wash.
 Works, Little Falls, Wash.
 McCord, Seely, Benton Harbor, Mich.
 Martin & Von Owen,

Mason City Brick & Tile Co., Mason City, Ia.
 Mason City Clay Works, Mason City, Ia.
 Mason, F. H. & Son, Monroeville, O.
 Mecca Clay Works (Wm. E. Dee, Prop.), 114
 Quincy, Chicago, Ill. Works, Mecca, Ind.
 Michigan Sewer Pipe Co., Jackson, Mich.
 Mishler Bros., Ravenna, O.
 Mitchell & Moore, Newberg, Ore.
 Monmouth Mining & Mfg. Co., Monmouth, Ill.
 National Terra Cotta Works, 316 13th, N. W.,
 Washington, D. C.
 New York Pottery Co., 949 B'way, New York
 Northwestern Clay Co., New Windsor, Ill.
 Onondaga Vitrified Brick Co., Syracuse, N. Y.
 Pacific Clay Mfg. Co., Los Angeles, Cal.
 Peck, Richard, East Bethany, N. Y.
 Pierson, Arthur & Co. (Mfrs. Agents), 1 Park
 Row, New York
 Pittsburg Sewer Pipe & Conduit Co., Pittsburg,
 Kans.
 Pittsburg Buffalo Co., Frick bldg, Pittsburg,
 Pomona Terra Cotta Co., Pomona, N. C.
 Prane, F. J., Shiloh, O.
 Purcell, Geo. W., Union, O.
 Richeson & Nelson, Greenville, O.
 Richmond Clay Products Co., Reading, Pa.
 Roblison Clay Product Co., Akron, O.
 Rochester Brick & Tile Mfg. Co., Powers blk,
 Rochester, N. Y.
 Rochester Sewer Pipe Co., Rochester, N. Y.
 Rocketts Brick & Tile Co., 905 E Cary, Rich-
 St. Clair Tile Co., Eaton, O. mond, Va.
 San Antonio Sewer & Pipe Mfg. Co.
 Shaw, C. B., Iowa Falls, Ia.
 Southern Brick & Tile Co., Louisville, Ky.
 Standard Sewer Pipe Co., Rochester, N. Y.
 Stevens, H. Sons Co., Macon, Ga.
 Stoneware Tile Co., Louisville, O.
 Straight & Campbell Brick & Tile Co., Ft.
 Dodge, Ia.
 Streater Clay Mfg. Co., Streater, Ill.
 Syracuse Stoneware Co. (Branch of Roblison
 Clay Product Co. of Akron, O.) 401 Ful-
 ton, Syracuse, N. Y.
 Terrell & Son, Newberg, Ore.
 Troy Fireproofing Co., Troy, N. Y.
 Utica Brick & Tile Co., ft Schuyler, Utica,
 Vgo Brick & Tile Co., Vgo, O. N. Y.
 Warsaw Brick & Tile Works, Warsaw, O.
 Whipple & Hull, Leonardsbury, O.
 White, S. C., Lapel, Ind.
 Williams, N. A. Co., Chamber of Commerce bldg,
 Chicago, Ill.

Tile (Enameled)

American Encaustic Tiling Co., 1123 B'way,
 New York, & Zanesville, O.
 Beaver Falls Art Tile Co., Beaver Falls, Pa.
 Cambridge Tile Mfg. Co., Covington, Ky.
 Tiffany Enameled Brick Co., Mommence, Ill.
 Zanesville Tile Co., 147 W 23d, N. Y., &
 Zanesville, O.

Tile (Enameled Metal)

American Effectile Co., Inc. (Porcelain
 Enamel), 100 William, New York
 American Locktile Co., Alexandria, Va.
 Chicago Metile Co., 152 Lake, Chicago, Ill.
 Enameled Art Metal Co. ("Effectile"), 20 E
 Herman, Gtn, Phila., Pa.
 Metile Construction Co., 22 E 22d, New York
NEW YORK METAL CEILING CO., 537 W
24th, N. Y. City. (See adv. index, end of
 book)
 Sanitary Metal Tile Co. (For Walls & Ceil-
 ings), 33 Prospect, Brooklyn, N. Y.
 Stenzel Bros. Co. ("Metile"), Pittsburg, Pa.
 United Metile Co., Ltd., 110 Summer, Boston,
 Mass., & 1100 Walnut, Philadelphia, Pa.

Tile (Encaustic Floor)

American Encaustic Tiling Co., Zanesville, O.,
 & 1123 B'way, New York
 Cambridge Tile Mfg. Co., Covington, Ky.
 Lage, (Mrs.) Bernhard H., 484 Greenwich,
 New York. Factory, Menlopark, N. J.
 Mosaic Tile Co., Zanesville, O.
 National Tile Co., Anderson, Ind.
 New York Vitrified Tile Co., 79 4th, Brooklyn,
 N. Y.
 Robertson Art Tile Co., Trenton, N. J.
 Star Encaustic Tile Co., Bluff nr Grist, Pitts-
 burg, Pa.
 U. S. Encaustic Tile Works, Indianapolis, Ind.
 Zanesville Tile Co., 147 W 23d, New York, &
 Zanesville, O.

Tile (Glass)

Federal Tiling & Mantel Co. (Wall), 131 W
 24th, New York
 Manhattan Glass Tile Co., 157 10th av, New
 York

Tile (Green House)

MAURER, HENRY & SON, 420 E 23d, N.
Y., & Penna. bldg., Phila., Pa. Works,
Maurer, N. J. (See adv. front inside cover)

*Tile (Illuminating, Wholesale Mfrs.)

RODEFER, T. A., Bellaire, O.. (See adv.
index, end of book)

Tile Importers

Schroeder, Rudolph (French Flint), 444 Green-
 wich, New York

Tile (Interlocking Metal)

American Lockite Co., Commercial Bank bldg,
 Washington, D. C., & 1 Madison av, N. Y.

Tile ("Moravian")

Moravian Pottery & Tile Works ("Glazed &
 Unglazed" in various Colors), Doylestown,
 Pa.
 Zanesville Tile Co., 147 W 23d, N. Y., &
 Zanesville, O.

Tile (Mosaic Ceramic Floor)

American Encaustic Tiling Co., 1123 B'way,
 New York, & Zanesville, O.
 Art Ceramic Works, Zanesville, Ohio.
 Cambridge Tile Mfg. Co., Covington, Ky.
 Eastern Vitrae Mosaic Co. (Inc.), 1634 Park
 av, New York
 Lage, (Mrs.) Bernhard H., 484 Greenwich,
 New York. Factory, Menlopark, N. J.
 Lage, Oscar, 188 E 76th, New York
 Matawan Tile Co., Matawan, N. J.
 Mosaic Tile Co., Zanesville, O.
 National Tile Co., Anderson, Ind.
 Robertson Art Tile Co., Trenton, N. J.
 United States Encaustic Tile Co., Indianapolis,
 Ind.

Tile (Non-Absorbent Floor)

American Encaustic Tiling Co., 1123 B'way,
 New York, & Zanesville, O.
 Cambridge Tile Mfg. Co., Covington, Ky.
 Zanesville Tile Co., 147 W 23d, N. Y., &
 Zanesville, O.

Tile (Opalite)

Opalite Tile Co., Monaca, Pa.

*Tile (Promenade)

LUDOWICI-CELADON CO., 138 Wash-
ington, Chicago, Ill. (See adv. index &
branch offices, end of book)

Tile (Roofing)

(See Roofing Tile, Various Kinds)

Tile (Rubber)

(See also Mats & Matting Rubber.)

Baltimore Rubber Co. (Interlocking), Balti-
 more, Md.
 Continental Rubber Works, Erie, Pa.
 Diamond Rubber Co., Akron, O.
 Goodrich, B. F. Co. (Interlocking), Akron, O.
 Goodyear Tire & Rubber Co. (Interlocking),
 Akron, Ohio
 Gutta Percha & Rubber Mfg. Co., 126 Duane,
 New York
 Manhattan Rubber Mfg. Co., 18 Vesey, N. Y.,
 & Passaic, N. J.
 New York Belting & Packing Co. (Ltd.) (Inter-
 locking), 91 Chambers, New York
 Penna. Rubber Co. (Interlocking), Jeannette,
 Republic Rubber Co., Youngstown, O.
 United & Globe Rubber Mfg. Co., Trenton,
 N. J.
 Voorhees Rubber Mfg. Co., Jersey City, N. J.

Tile (Sanitile)

Sanatille Co. (Wall Tile), 24 E 22d, New York

Tile (Sidewalk)

Logan Brick Mfg. Co. (Vitrified Glazed), To-
 ledo, Ohio. Works, Logan, Ohio
 Mason City Brick & Tile Co. (Vitrified), Ma-
 son City, Ia.
 Nelsonville Brick Co., Nelsonville, Ohio
 Nelsonville Sewer Pipe Co., Nelsonville, O.
 Solsson, Jos. Fire Brick Co., Connellsville, Pa.
 Wabash Clay Co., Veedersburg, Ind.

Tile (Slate)

(See Slate Floor Tile.)

Tile (Terra Vitrae)

Hartford Faience Co., Hartford, Conn.
 Zanesville Tile Co., 147 W 23d, N. Y., &
 Zanesville, Ohio

Tile (Vitreous Floor)

AKRON ROOFING TILE CO. (Quarries),
Akron, O. (See adv. index, end of book)
 Alexander & Reed Co., 127 E 23d, New York
 Alhambra Tile Co., Newport, Ky.
 American Ceramic Corporation (Stegmayer
 Process), 1 Madison av, N. Y.
 Cambridge Tile Mfg. Co., Covington, Ky.
FLEMING & CO. (Red, Buff & Black
Quarries), 123 Liberty, New York. (See
adv. index, end of book)
 Lage (Mrs.), Bernhard H., 484 Greenwich,
 New York. Factory, Menlopark, N. J.
 Lage, Oscar, 188 E 76th, New York
 Mosaic Tile Co., Zanesville, Ohio
 New York Vitrified Tile Works, 79 4th, Brook-
 lyn, N. Y.
 Robertson Art Tile Co., Trenton, N. J.
 Rossman, Robert, 149 W 24th, New York
 Trent Tile Co. (White & Colored), Trenton,
 N. J.
 United States Encaustic Tile Co., Indianapo-
 lis, Ind.
 Zanesville Tile Co., 147 W 23d, N. Y., &
 Zanesville, Ohio

Tiles (Mortised)

Alexander & Reed Co. ("Alexander"), 127 E
 23d, N. Y. City

Tiling (Acid Proof)

(For Chemical Works.)

La Clede Fire Brick Mfg. Co., St. Louis, Mo.
 Reconstructed Granite Co., 14 Dey, N. Y.
 Works, Norristown, Pa.

Tiling (Interlocking Rubber)

Diamond Rubber Co., Akron, Ohio
 Goodrich, B. F. Co., Akron, Ohio
NEW YORK BELTING & PACKING CO.,
(Ltd.), 91 Chambers, New York. (See adv.
index & branch offices, end of book)
 Pennsylvania Rubber Co., Jeannette, Pa.

Tills (Alarm)

Chicago Scale Co., 292 Jackson boul, Chicago,
 Ill.
 Miles Alarm Till Mfg. Co., Providence, R. I.
 Tucker & Dorsey Mfg. Co. ("Tucker"), In-
 dianapolis, Ind.

Time Checks (Factory)

American Railway Supply Co., 24 Park pl,
 New York

Time Detectors

(See Clocks, Watchman's.)

Time Recorders

American Watchman's Time Detector Co.
 ("The Original"), 45 Sheriff, Cleveland, O.
BRISTOL CO. (Electric), Waterbury, Conn.,
& 114 Liberty, N. Y. (See adv. index &
branch offices, end of book)
 Bundy, W. H. Recording Co., Syracuse, N. Y.
 Cincinnati Time Recorder Co., Cincinnati, O.
 Crouse-Hinds Co. ("Hawley"), Syracuse, N. Y.

Dey Time Register Co., Syracuse, N. Y.
 Du Vivier, Ernest H. (Electric, Imported), 14 Church, New York
 Follett Time Recording Co., 173 Greenwich, New York
 General Watchmen's Time Detector Co., 49 Dey, New York
 Herzog Teleseme Co., 51 W 24th, N. Y.
 Holtzer-Cabot Electric Co. ("Watchmen's"), Brookline, Mass.
HOWARD, E. CLOCK CO., 373 Washington, Boston, Mass. (See adv. index & branch offices, end of book)
 Imhauser, E. & Co. (Watchman's), 202 B'way, N. Y.
 International Time Recording Co. ("Rochester," "Bundy," "Chicago," & "International Card"), Binghamton, N. Y.
 Nanz & Co., 127 Duane, N. Y.
 National Time Recorder Co., 240 W Lake, Chicago, Ill.

Penfield, C. M., Hartford, Conn.
 Pettes & Randall Co., 150 Nassau, N. Y.
 Simplex Time Recorder Co. ("Simplex" Employee's), Gardner, Mass.
 Stambaugh, Wm. B. (Automatic Time Dating Machines), Metropolitan Life bldg, N. Y.
 Syracuse Time Recorder Co., Syracuse, N. Y.

Timers (Spark)

Altamus, C. L. & Co. ("Altamus" & "Bowles"), The Bourse, Phila., Pa.
 American Coil Co., Foxboro, Mass.
 Atwater-Kent Mfg. Works, 42 N 6th, Philadelphia, Pa.
 Beckley-Ralston Co., 80 Mich. av, Chicago, Ill.
 Bemus, T. Alton Co., 294 Wash'n, Boston, Mass.
 Bosch, Robert, 1947 B'way, N. Y. City
 Brooklyn Automobile Co. ("Leavitt"), 1239 Fulton, Brooklyn, N. Y.
 Brock-Barbier Auto Ignition Co., 143 W 54th, New York
 Byrne, Kingston & Co., Kokomo, Ind.
 Champion, Albert Co. ("Nieuport" Sole Agents), 541 Tremont, Boston, Mass.
 Connecticut Teleph. & El. Co., Meriden, Conn.
 Continental Engine Co. ("C. E."), Fisher Bldg., Chicago, Ill.
 Crouse-Hinds Co., 232 Water, Syracuse, N. Y.
 Dayton Electrical Mfg. Co., 89 St. Clair st, Dayton, Ohio
 Dow Portable Electric Co., Braintree, Mass.
 Fulmer, C. F. ("Invincible"), Plainfield, N. J.
 Hardy, The R. E. Co., 86 Watts st, N. Y. City
 Hawkins Mfg. Co., 506 Atlantic av, Boston, Mass.
 Herz & Co., 205 Lafayette, N. Y.
 Illinois Automobile & Parts Co. ("Holtz"), Kokomo, Ind.
 Kokomo El. Co., Kokomo, Ind.
 Kowalsky Engine Co., Verona, Pa.
 Lindsay, A. M. Igniter Co., 2506 Third av S, Minneapolis, Minn.
 Milwaukee Auto Eng. & Supply Co., 706 Winnebago, Milwaukee, Wis.
 Mosler, A. R. & Co. (Inc.) ("Eccentric"), 163 W 29th, New York
 New York Coil Co., 338 Pearl, New York
 Pittsfield Spark Coil Co. (Secondary Distributors), Pittsfield, Mass.
 Post & Lester Co. ("E. I. C."), Hartford, Conn.
 Powell Muffler & Timer Mfg. Co. (Twentieth Century), Utica, N. Y.
 Providence Spark Coil Co., 143 Summer, Providence, R. I.
 Quad Mfg. Co., 37 S. Scioto, Columbus, Ohio
 Rubay, Leon, 140 W. 58th, New York
 Schug El. Mfg. Co., 320 Jefferson av, Detroit, Mich.
 Sintz, Guy L., 255 S Front, Grand Rapids, Mich.
 Splitdorf, C. F., 17 Vandewater, New York
 Thurston, F. A., 356 E 57th, Chicago, Ill.
 Uncas Specialty Co., Norwich, Conn.
 Westerfield Motor Co., Anderson, Ind.
 Youse, E. S., Reading, Pa.
 Zimmerman-Smith Co., N. Tonawanda, N. Y.

Tin (Bar & Pig)

American Metal Co., 52 B'way, New York
 Chadwick-Boston Lead Co., Boston, Mass.
 Davol, Jno. & Sons, 100 John, New York
 Gilbert, A. & Sons Brass Foundry, St. Louis, Mo.
 Hayman, Mich'l & Co., Buffalo, N. Y.
 Hendricks Bros., 49 Cliff, New York
 Hungerford, U. T. Brass & Copper Co., 497 Pearl, New York
LEAVITT, C. W. & CO. (Pig Tin Only), 222 B'way, New York. (See adv. index, end of book)
 Lisberger, B. & Co., 738 E 14th, N. Y.

Lissberger, Marks & Son, 397 W 12th, N. Y., & 375 Driggs av, Brooklyn, N. Y.
MERCHANT & EVANS CO. (Inc.), 517 Arch, Phila., Pa. (See adv. index & branch offices, end of book)
 Selby Smelting & Lead Co., San Francisco, Cal.
 Woodfall Bros., 1105 Fairmount av, Phila., Pa.

Tin Ears

Horan Stay Hanger Co. (for Tin Buckets), Louisville, Ky.

Tin Foil

Budde & Westerman, 50 Vesey, N. Y.
 Cohn, Hugo & Co., 67 Murray, N. Y.
 Conley Foil Co. (Wrapping Machine Foil), 521 W 25th, N. Y.
 Crooke, Jno. J. Co., 186 Grand, N. Y., & 149 Fulton, Chicago, Ill.
GRAMMES, L. F. & SONS (All Kinds), Allentown, Pa. (See adv. index, end of book)
 Hutchinson, W. H. & Son, 196 Desplaines, Chicago, Ill.
 Johnston Tin Foil & Metal Co., 6016 S B'way, St. Louis, Mo.
 Lehmaier, Schwartz & Co., 207 E 22d, N. Y.
 Wittemann Bros., Wolcott & Ferris, Brooklyn, N. Y.

Tin Plate Dipperies

(See also Tin Plate Mfrs.)

American Tin & Terne Plate Co. (Brands, Puritan & Keystone), 22 Wildey, Phila., Pa.
BERGER MFG. CO., Main Office & Works, Canton, O. (See adv. index & branch office, end of book)
 Ferguson Tin Plate Co., Ltd. (Terne Plates), Pittsburgh, Pa.
 Hamilton, John, B. & O. R. R. & Tecumseh, Pittsburgh, Pa.
 Jackson Iron & Tin Plate Co., Clarksburg, Va.
 McDonald, Jas. & Sons Co., 654 Main, Cincinnati, O.
 Marshall Iron Co., Newport, Del.
 Marshallton Iron & Steel Co., Marshallton, Del.

MERCHANT & EVANS CO. (Inc.), 517 Arch, Phila., Pa. (See adv. index & branch offices, end of book)
 Meurer Bros. Co., 575 Flushing av, Brooklyn, N. Y.
 National Enameling & Stamping Co., Baltimore, Md.
 Old Dominion Iron & Nail Works Co., Richmond, Va.
 Parkersburg Iron & Steel Co., Parkersburg, W. Va.

*Tin Plate Importers

LEAVITT, C. W. & CO., 220 B'way, New York. (See adv. index, end of book)

Tin Plate Mfrs.

(See also Tin Plate Dipperies.)

Alcania Co., Murtland bldg, Pittsburgh, Pa.
 Works, Avonmore, Pa.
AMERICAN SHEET & TIN PLATE CO., Erie Bldg., Pittsburgh, Pa. (See adv. index, end of book)
 American Tin & Terne Plate Co. (Brands, "Puritan" & "Keystone"), 50 N 23d, Phila., Pa.
 Atlanta Rolling Mill & Tin Plate Co., Atlanta, Ind.
 Carnahan Tin Plate & Sheet Co. (& Black Sheets for Stamping & Deep Drawing Purposes), Canton, Ohio. Works, Greencastle, Ind.
 Colorado Fuel & Iron Co., Denver, Colo.
 Follansbee Bros. Co., Pittsburgh, Pa.
 Griffith, W. H. Co., Waynesburg, Pa.
 Griffiths Charcoal Iron Mills, Washington, Pa.
 Licking Rolling Mill Co. (Also Black Plate), Covington, Ky.
 McClure Co., Pittsburgh, Pa.; 301 Florist, Phila., Pa., & 14 4th av, Pittsburgh, Pa.
 McKeesport Tin Plate Co. (Also Black Plates), McKeesport, Pa.
MERCHANT & EVANS CO. (Inc.) (Bright & Roofing), 517 Arch, Phila., Pa. (See adv. index & branch offices, end of book)
 Phillips Sheet & Tin Plate Co., Clarksburg, Va.
 Pope Tin Plate Co., 421 Wood, Pittsburgh, Pa.
 Standard Tin Plate Co., Canonsburg, Pa.

Taylor, N. & G. Co., Mariner & Merchants' bldg, Phila., Pa., & 1123 B'way, New York.
 Washington Charcoal Iron Tin Mills, Washington, Pa.
 Waynesburg Forge Sheet & Tin Mill, Waynesburg, Pa.
 Wheeling Corrugating Co., Wheeling, W. Va.

Tin Plate, Metals, Etc.

(See also Roofing Materials; also Roofing & Siding, Iron & Steel; also Tin Plate Mfrs.)

ARKANSAS.

LITTLE ROCK—Fones Bros. Hdw. Co.

CALIFORNIA.

LOS ANGELES—Harper & Reynolds Co., 152 N Main
 Holbrook, Merrill & Stetson, 224 N Los Angeles
 Hooker, J. D. Co. (Inc.), 130 S Los Angeles
 Montague, W. W. & Co., 124 N Los Angeles
SACRAMENTO—Schaw-Batcher Co., 219 J
SAN FRANCISCO—Arnold Hardware Co., 23 Burnside Bros., 534 Brannan
 Dalziel-Moller Co., 559 Mission
 Dunham, Carrigan & Hayden Co., 17 Beale
 Garratt, W. T. & Co., 140 Fremont
 Harley, Chas. Co., 844 Harrison
 Holbrook, Merrill & Stetson, 237 Market
 Montague, W. W. & Co., 317 Market
 Pacific Hardware & Steel Co., s w cor 7th & Townsend
 Pacific Metal Works, 153 1st
 Speddy, T. H. & Co., Wells-Fargo & Co. Express bldg
 Tay, Geo. H., Co., 49 1st, Express bldg

COLORADO.

DENVER—Eaton, C. B. & W. R., 901 Wazee
 Rowntree, Jno. T., Continental bldg

CONNECTICUT.

BRIDGEPORT—Hunter & Havens
HARTFORD—Blodgett & Clapp Co., 51 Market
 Ensworth, L. L. & Son, 104 Front
NEW HAVEN—Mersick, C. S. & Co., 292 State

DISTRICT OF COLUMBIA.

WASHINGTON—Adler, M. J., 3148 M, N W
 Baum & Bernheimer, 1725 7th, N W
 Hartig, Gustav, 509 H, N E
 Kendall, J. B., 485 Mo av, N W
 Lambie, Jas. B. Co., 1415 N. Y. av, N W
 Rudolph, West & Co., 1332 N Y av, N W

GEORGIA.

ATLANTA—Conklin Tin Plate & Metal Co., Empire bldg
SAVANNAH—Conklin Tin Plate & Metal Co.
 Gilbert, C. M. & Co.
 Weed, J. D. & Co.

ILLINOIS.

ALTON—Degenhardt, A. J.
CHICAGO—Allerton-Clarke Co., 118 Lake
 Follansbee Bros. Co., 204 Dearborn
 Hibbard, Spencer, Bartlett & Co., State St.
 Hunt's, Edwin Sons, 180 Lake Bridge
 Johnston, Jno. & Co., 233 Lake
MERCHANT & EVANS CO. (Inc.), 14 Michigan. (See adv. index, end of book)
 Perkins Roofing & Supply Co., 239 Lake
 Scully Steel & Iron Co., Halsted & Wayman sts
 Shepard, C. Sidney & Co., 23 Randolph
 Trench, Dan'l G. & Co., 42 River
 Wells & Nellegar Co., 72 Lake
GALESBURG—Galesburg Cornice Works
OTTAWA—Jordan, R. C.
 Refor-Barr Co.
PEORIA—Clark, Quien & Morse
 Hunter & Strehlow
 Walker, Isaac Hdw. Co.
QUINCY—Cottrell Hdw. Co., 124 N 5th
 Tenk Hdw. Co.

INDIANA.

EVANSVILLE—Thiele, I. A., 108 U 3d
FORT WAYNE—Ash, H. J.
 Seavey Hdw. Co., 19 W Main

When You See "26 Gauge"

stenciled on a bundle of



PITTSBURGH

APOLLO BEST BLOOM

GALVANIZED SHEETS

you know from experience that 26 gauge it is. The same applies to all other gauges, and this one point alone is sufficient reason for you to demand them, for such uniformity assures quick, easy and satisfactory work, and removes all risk of damage to your machines.

When you add to this the toughness, pliability and easy working qualities of the materials used; the superior coating; and the ability of Apollo Sheets to withstand the elements indefinitely—no metal worker or property owner can afford to overlook them.

We'll gladly send you our Weight Card if you desire further information on the subject—and would suggest that you say "Apollo" and stick to it when in the market for Galvanized Sheets. You'll never regret taking such a course and you may if you don't.

AMERICAN SHEET & TIN PLATE COMPANY,

FRICK BUILDING,

PITTSBURGH, PA

Hendricks' Commercial Register

IS USED FOR



**PURCHASING
PURPOSES**



BY A GREATER VARIETY OF INDUSTRIES
THAN ANY OTHER PUBLICATION ISSUED

"Merchant's Old Method"

IS THE BEST ROOFING PLATE MADE.

IT IS ABSOLUTELY RELIABLE AND OF
UNIFORM QUALITY.

LEADING ARCHITECTS
SPECIFY IT.

PROMINENT ROOFERS
ADOPT AND USE IT.

USED BY THE U. S. GOVERNMENT

IN THE VARIOUS ENGINEERING AND
CONSTRUCTION DEPARTMENTS.

The "Star" Ventilator

STORM PROOF—EFFECTIVE



A VENTILATOR
THAT IS FIRST-
CLASS AND COSTS
NOTHING TO OP-
ERATE.

Thousands of them in use by the U.S. Government in the
various departments, Large Power Plants, Factories, etc.

Get our Booklet—Free for the asking

Metal "Spanish" Tiles and Shingles

For Ornamental Roofing.

BRASS AND COPPER

TUBES, SHEETS, RODS,

SEAMLESS DRAWN TUBES,

SHEET BRASS for Spinning, Stamping and Drawing

CORNICE ROOFING AND
BRAZIERS COPPER.

DRAWN COPPER BARS

FOR ELECTRICAL PURPOSES.

IRON SIZE BRASS PIPE

FOR PLUMBING, ETC.

WE MAKE

BABBITT METALS

FOR ALL PURPOSES.

LINOTYPE, MONOTYPE,
STEREOTYPE, ELECTROTYPE,
COMPOSOTYPE and AUTOPLATE
and all special alloys of similar nature.

.. S O L D E R S ..

REGULAR BARS, SLAB WIRE
AND SEGMENTS FOR ALL
PURPOSES IN ALL GRADES.

MERCHANT & EVANS CO.,

SUCCESSOR TO
MERCHANT & CO., INC.

PHILADELPHIA
NEW YORK

BROOKLYN
BALTIMORE

CHICAGO
KANSAS CITY

"Reg. U. S.
M & E
Pat. Off."
DENVER

INDIANAPOLIS—INDIANAPOLIS STEEL
Roofing & Corrugating Co. (See adv. index, end of book)
Indianapolis Stove Co., Roosevelt & Colum-
Tanner & Co., 216 S. Meridian bldg. avs
Van Camp Hdw. & Iron Co., 130 S Illinois
RICHMOND—Jones Hardware Co.
TERRE HAUTE—Smith, C. C. Sons Co.
Townley Stove Co.

IOWA.

BURLINGTON—Donahue, Robt. Iron & Hard-
ware Co.
DUBUQUE—Tredway, A. & Sons Hdw. Co.
Tredway, A. & Sons Hdw. Co.
SIOUX CITY—Baker Hdw. Co.

KANSAS.

ATCHISON—Blish, Mize & Siliman Hdw. Co.
Harwi, A. J. Hardware Co.
LEAVENWORTH—Crancer, J. W. & Co.

KENTUCKY.

LOUISVILLE—Belknap Hardware & Mfg. Co.
(Inc.) (also Wire)
Bridgeford & Co., 1953 Portland
Connor, Chas. H. & Co., 17th & Arbegust
Stratton & Terstege Co., 728 W Main
Todd-Donigan Iron Co., 817 W Main

LOUISIANA.

NEW ORLEANS—Stauffer, Eshleman & Co.
513 Canal

MAINE.

EASTPORT—Milliken, B. F. & Son (Canners'
LEWISTON—Stetson, J. H. Co. Supplies)

MARYLAND.

BALTIMORE—Ammidon & Co., 31 S. Freder-
ick
Baltimore Copper Smelting & Rolling Co.
(Copper only), Keyser bldg
Central Metal & Supply Co., 615 E. Lom-
Clendenin Bros., 1417 Thames bard
Fuller, Wm. & Co., 111 S Charles
Lyon, Conklin & Co., 13 Balderston
MERCHANT & EVANS CO., INC., 232
St Paul. (See adv. index, end of book)
Nimmo, W. C. & Co., 105 Cheapside
Parker, E. L. & Co., 203 S Charles

MASSACHUSETTS.

BOSTON—Austin & Doten, 102 North
Boston Galvanizing Works, 121 W 1st
Brown-Wales Co., 83 Purchase
Fitz, Dana & Co., 110 North
Foster, W. T. & Co., 9 Bowker
Gallagher, D. F. & Co., 277 Commercial
Harvey, Arthur C. Co., 374 Congress
Herrick Co., 47 Broad
Lloyd, Geo. H., 131 State
Richards & Co., 200 Causeway
Studley & Simpson, 137 North
Waite, Ranlet & Co., 82 Broad
Wheeling Corrugating Co., 132 Pearl
SPRINGFIELD—Lewis, Chas. C., Co., 30
Lyman
New England Plumbing Supply Co.
WORCESTER—McGuinness, J. F.

MICHIGAN.

BATTLE CREEK—Bock, C. F. & Son
Brockett, L. B. & Sons
DETROIT—Buhl, Sons Co., 115 Woodbridge
BURTON, W. J., CO., 164 W. LARNED
(See adv. index, end of book)
Standart Bros., 155 W Woodbridge
Walker Mfg. & Supply Co., 136 W Larned
GRAND RAPIDS—Foster, Stevens & Co.
KALAMAZOO—Edwards & Chamberlin Hdw.
Co.

MINNESOTA.

DULUTH—Duluth Corrugating & Roofing Co.
MINNEAPOLIS—Janney, Semple, Hill & Co.,
24 S 2d
Morison, W. K. & Co., 249 Nicollet av.,
Minneapolis, Minn.
ST. PAUL—Decker, Adam Hardware Co. (Est.
of), 347 Jackson
Farwell, Ozmun, Kirk & Co.
Hackett-Walther-Gates Hdw. Co., 270 E
WINONA—Cone, R. D. & Co. 4th

MISSOURI.

KANSAS CITY—Gille Mfg. Co.
MERCHANT & EVANS CO. (Inc.),
Kansas City Life bldg. (See adv. index,
end of book)
Richards & Conover Hdw. Co., 5th & Wy-
andotte
ST. JOSEPH—Wyeth Hdw. & Mfg. Co.
ST. LOUIS—Bannantine Galvanized Iron Mfg.
Co., 113 Soulard
Berger Mfg. Co., 623 N Main
Geisel A. Mfg. Co., 225 S 2d
Paddock-Hawley Iron Co., Spruce & 10th
Ripley, L. B., 105 N 7th
Rumsey, L. M. Mfg Co., 806 N 2d
St. Louis Corrugating Co., 113 Soulard
Simmons Hdw. Co., Spruce & 9th

NEBRASKA.

OMAHA—Lee-Glass-Andreesen Hdw. Co., 9th
& Harney
Lehmer, Jos. R., 1212 Farnam.
Wright & Wilhelm Co., 519 S. 10th

NEW HAMPSHIRE.

MANCHESTER—Pike & Heald Co., 972 Elm

NEW JERSEY.

ELIZABETH—Elizabeth Hdw. Co., 202 Broad
JERSEY CITY—Jersey City Galvanizing Co.,
80 Morgan
Letcher & Norton, 193 Morgan
N. Y. Iron Roofing & Corrugating Co., 1st
& Wash'n
NEWARK—Coe-Faitoute Co., 62 Lawrence
Coe, Jas. A. & Co., 106 Mulberry
Demars, Wm., 57 Mechanic
Egbert, W. V. & Co., 37 Mechanic
Macknet & Doremus, 796 Broad

NEW MEXICO.

ALBUQUERQUE—Post, E. J. & Co.

NEW YORK.

ALBANY—Hoy & Co., 27 Green
AUBURN—Smith & Pearson
BINGHAMTON—Babcock, Hinds & Under-
wood, 147 Wash'n
BUFFALO—Beals & Co., 44 Terrace
Buffalo Wholesale Hdw. Co., 331 Wash'n
Hofeller, Theo. & Co., 108 Terrace
Newman, W. H. H. & Co., 70 Main
Pratt & Letchworth Co., 189 Tonawanda
Republic Metalware Co., 60 Tecumseh
Schmahl, Jacob, 26 Lloyd
Walbridge & Co., 392 Main
Weed & Co., 298 Main
ELMIRA—Booth, Irving D.

NEW YORK CITY.

Borough of Brooklyn.

BROOKLYN—Knight, Thos. G., 259 Pearl
MERCHANT & EVANS CO. (Inc.), 584
Flushing av. (See adv. index, end of book)
Meurer Bros. Co., 575 Flushing av.
Ring, Chas. E., 38 S 8th

Boroughs of Manhattan & Bronx

NEW YORK—Berliner, H. E., 68 Broad
Bruce & Cook, 190 Water
De Milt, H. R. & Co., 238 Water
Dickerson, Van Dusen & Co., 32 Cliff
Dunham, Carrigan Hayden Co., 127 Duane
EDWARDS MFG. CO., 359 W 26th.
(See adv. index, end of book)
Feld, Geo. A. Co., 162 E 129th
Fitz-Dana & Brown, 445 Pearl
Fox Bros. & Co., 126 Lafayette
Fuller Bros. & Co., 139 Greenwich
Hoffman & Scofield, 100 Beekman
HUNGERFORD, U. T. BRASS &
Copper Co., 497 Pearl
Jersey City Galvanizing Co., 112 John
Lawler Water Feed & Damper Regulator
Co., 158 Wooster
LEAVITT, C. W. & CO., 220 B'way.
(See adv. index, end of book)
MERCHANT & EVANS CO. (Inc.), 247
Water. (See adv. index, end of book)
Ogden & Wallace, 581 Greenwich
Phelps, Dodge & Co., 99 John
Republic Metalware Co., 21 Cliff

Rogers, Jos. C., 143 Varick
Sel, Benj. & Co., 59 Orchard
Taylor, N. & G. Co., 1123 B'way
Trench, C. S. & Co., 99 Nassau
Trench, Stewart & Co., 99 Nassau

(END OF NEW YORK CITY).

PORT JERVIS—Gordon & Malven Co.
ROCHESTER—Mathews & Boucher, 26 Ex-
SCHENECTADY—Case, Levi & Co. change
SYRACUSE—Burhans & Black Co., 136 N
De Land, J. S., 209 Columbus av.
Syracuse Hdw. & Iron Co., 210 S Clinton
TROY—Warren, J. M. & Co., 245 River
UTICA—Miller, Chas. & Son Co.
WATERTOWN—Hunting Co.
Spratt & Corcoran

OHIO.

CINCINNATI—American Galvanizing Co., 816
E Pearl
Cincinnati Stamping Co., 24 W McMicken av
Cincinnati Tin & Japan Co., 308 Walnut
EDWARDS MFG. CO., Eggleston
av & 4th & 5th, Cincinnati, O. (See adv.
index, end of book)
Evans, C. W. Steel & Iron Co., 12 E Front
Graham, Frank C. Co., Traction Bldg.
Huenefeld, E. H. Co., Inc., Springrove av.
& Straight
Lawson, F. H. Co., Wateley, nr. Evans
McDonald, J. & Sons Co., 654 Main
Robertson, W. F. Steel & Iron Co. (Sheet
Iron & Steel, Tin & Terne Plates, etc.),
Commerce & Elm
Talbot, C. R. Co., Wiggins blk
CLEVELAND—American Tin Plate Co., Bes-
semer av nr Tod
Western Reserve
Bassett-Presley Co., 146 Water Bldg.
Bingham, W. Co., 146 Water
Garry Iron & Steel Co.
Lockwood-Taylor Hdw. Co., 1369 W 9th
Luetkemeyer, H. W. & Sons, 190 Superior
McIntosh Hardware Corp'n, 725 Superior
Osborn, J. M. & L. A. Co., 36 Viaduct
Worthington, Geo. Co., 814 St. Clair
COLUMBUS—Janeway, W. F., 161 N Lazelle
Mithoff, H. & Co., 284 S High
Schoedinger, F. O., 146 E 3d
DAYTON—Ach, Abraham & Son, 33 W 2d
Hartman-Franz Co., 116 N St Clair
FOREST—Dickelman Mfg. Co.
LISBON—Armstrong, P. M. & Co.
MANSFIELD—Blymer Bros. Co.
TOLEDO—Bostwick-Braun Co.
Stollberg Hardware Co., 605 Cherry

OREGON.

PORTLAND—Corbett, Failing & Robertson
(Inc.), 80 Front
Pacific Metal Works, 73 2d, N

PENNSYLVANIA.

ALLENTOWN—Schelley, C. Y. & Bro.
HAZLETON—Bright, J. C. & Co.
LANCASTER—Reilly Bros. & Raub
Sheet Metal & Supply Co.
Steinman Hdw. Co.
McKEESPORT—Nat'l Galvanizing Works
NEW CASTLE—Smith, Hutton & Kirk Co.
PHILADELPHIA—American Tin & Terne Plate
Co., 50 N. 23d
Bailey, R. M. & Co., Arcade bldg
Berger Bros. Co. (also Tinnars' Tools &
Supplies), 237 Arch
Calvert & Holloway, 68 N 2d
Carter, Donlevy & Co., 1012 Cherry
Gummey, McFarland & Co., 147 N 10th
Hall & Carpenter, 518 Race
Jolley, J. H. & Co., 42 N 5th
McClure Co., 301 Florist
Marshall Bros. & Co., Glrard av & Front
MERCHANT & EVANS CO. (Inc.), 517
Arch. (See adv. index, end of book)
Murphy & Mercer Co., 31 N. 2d
Phillips, F. R. & Sons Co., Penna bldg
Potts, W. F. Son & Co., 1224 Cherry
Riter Bros. & Co., 1622 Race
Taylor, N. & G. Co., Mariner & Merchant
Trotter, Nathan & Co., 36 N Front Bldg.
Wilson, E. H. & Co., Arcade bldg
PITTSBURG—Bindley Hdw. Co., 429 7th av
McClure Co., 14 4th av.
POTTSVILLE—Bright & Co.
READING—Bard Hardware Co., 800 Penn
Schnader-Nagle Co., 414 Penn
Stichter Hdw. Co. (Ltd.), 505 Penn
WILKES-BARRE—Bertels, W. B. Son & Co.
Penna. Supply Co.
WILLIAMSPORT—Kline & Co.
YORK—Small, P. A. & S.

RHODE ISLAND.

PROVIDENCE—Congdon & Carpenter Co.
Hill, Jas. Mfg. Co., 56 Westfield

SOUTH CAROLINA.

CHARLESTON—Shepherd Supply Co., 232 Meeting

TENNESSEE.

CHATTANOOGA—Chattanooga Roofing & Foundry Co.
Magill Hdw. Co.
MEMPHIS—Livermore Foundry & Mach. Co.
Manogue-Pidgeon Iron Co.

TEXAS.

AUSTIN—Tipton, Walter
Webb, Jno. H. & Bro.
DALLAS—Tuesy & Philp Hdw. Co.
FORT WORTH—Nash Hdw. Co.
GALVESTON—Parr, Wm. & Co.
HOUSTON—Heltman, F. W. Co.
Peden Iron & Steel Co.
LAREDO—Deutz, A. & Bro.
WACO—Strauss, Edw.

UTAH.

SALT LAKE CITY—Strevell-Paterson Hdw. Co.

VERMONT.

BARRE—Phelps Bros.
MONTPELIER—Blanchard, Fred

VIRGINIA.

NORFOLK—Howard, Paul R. Hdw. Co.
LYNCHBURG—Barker-Jennings Hdw. Co.
Handy, N. B. Co.
RICHMOND—Gordon Metal Co. (Jobbers), 1426 E Carey

WASHINGTON.

SEATTLE—Hofius, W. D. & Co.

WEST VIRGINIA.

WHEELING—Johnson, Geo. W. Sons
Nesbitt & Bro.

WISCONSIN.

GREEN BAY—Gottfredson Bros.
MILWAUKEE—Biersach & Niedermeyer Co., 216 5th
Frankfurth, Wm. Hdw. Co., 119 W Water
MILWAUKEE CORRUGATING CO.
(See adv. index, end of book)
Pritzloff, Jno., Hardware Co., 33 W. Water
SHEBOYGAN—Geele, F. Hdw. Co.

Tinners' Furnaces

(See Furnaces, Plumbers & Tinners'.)

Tinners' Rivet Sets & Headers

Johnson, Wm. (Hedenberg Works), Newark, N. J.

Tinners' Supplies, Etc.

(See Tin Plate Metals, etc.; also Tin & Terne Plate Mfrs.; also Tin Plate Dipperies; also Solder Mfrs.; also Conductor Pipe Mfrs.; also Copper Mfrs., Sheet.)

Tinners' Trimmings

Hero Fruit Jar Co., Gaul & Adams, Phila., Pa.
Vogel, Wm. & Bros., 37 S 9th, Brooklyn, N. Y.

Tinning & Japanning

American Tube & Stamping Co., Bridgeport, Conn.
Buffalo Galvanizing & Tinning Works, 79 Jackson, Buffalo, N. Y.
Buffalo Galvanizing & Tinning Works (Tinning Only), 79 Jackson, Buffalo, N. Y.
Canton Malleable Iron Co. (Japanning Only), Canton, O.
Cincinnati Stamping Co., 24 W McMicken av., Cincinnati, O.

Clark, Jno. W. (Japanning & Bronzing), Albany, N. Y.
Devlin, Thos. Mfg. Co., 3d & Lehigh av., Phila., Pa.
Dover Stamping & Mfg. Co., Cambridge, Mass.
Elbel Co., Canton, O.
Frazier & Jones Co., Syracuse, N. Y.
Illinois Malleable Iron Co. (Tinning Only), 30 W Monroe, Chicago, Ill.
Lefferts Galvanizing & Tinning Works (Tinning Only), 508 E 20th, N. Y.
Lefferts, Jno. C. (Tinning Only), Smith, Bush & Hamilton avs, Brooklyn, N. Y.
Ohio Foundry Co. (Japanning Only), Cleveland, O.
Phila. Hardware & Malleable Iron Works (Inc.), 9th & Jeff'n, Phila., Pa.
Racine Malleable & Wrought Iron Co., Racine, Wis.
Sessions, J. H. & Son, Bristol, Conn.
Stowell Mfg. & Foundry Co., S Milwaukee, Wis.
Western Malleable & Grey Iron Mfg. Co. (Tinning Only), Milwaukee, Wis.
White Mountain Freezer Co. (Tinning & Galvanizing), Nashua, N. H.
Wilcox, Crittenden & Co. (Tinning of Castings of all kinds), Middletown, Conn.

Tinware Mfrs.

(See also Enameled Hollow Ware Mfrs.)
American Can Co., 447 W 14th, New York
Central Stamping Co., 24 Cliff, New York
Genber & Paeschke Mfg. Co. (Anti-Rust, also Enameled Galvanized & Japanned Hollow Ware), Milwaukee, Wis.
Lalance & Grosgean Mfg. Co., 19 Cliff, New York
National Enameling & Stamping Co., B'way & White, New York
Wallace, Jno. W. Co., 396 S 2nd, Brooklyn, N. Y.
Wheeling Stamping Co., Wheeling, W. Va.

Tipples (Coal)

(See Tipples, Mine)

Tipples (Mine)

ALLIS-CHALMERS CO., Milwaukee, Wis.
(See adv. index & branch offices, end of book)
Brady Construction Co., Inc. (Coal Tipples), Fairmount, W. Va.
Helmick Foundry & Machine Co., Fairmount, W. Va.
Heyl & Patterson (Coal, Steel), 51 Water, Pittsburgh, Pa.
Interstate Engineering Co. (Steel, Coal), Bedford, O.
MINNEAPOLIS STEEL & MACHINERY CO. (Steel), Minneapolis, Minn. (See adv. index & branch offices, end of book)
Monongahela Mfg. Co. ("Steel & Wood"), Monongahela, Pa.
Mullen, John & Son (Coal), Shamokin, Pa.
Nelsonville Foundry & Machine Co. ("Steel"), Nelsonville, O.
Niles Mine & Mill Supply Co. (Coal), Cleveland, O., & Niles, O.
Parker, Thatcher, A., Terre Haute, Ind.
Phillips Mine & Mill Supply Co., Pittsburg, Pa.
Power & Mining Machinery Co. (Steel, also Ore Trestles), 52 William, New York Works, Cudahy, Wis.
Roberts & Schaefer Co. (Engineers & Contractors), Old Colony bldg., Chicago, Ill.
SCAIFE, WM. B. & SONS CO. (Steel), 221 1st av., Pittsburg, Pa. (See adv. index, end of book)
SULLIVAN MACHINERY CO. ("Wilson & Mitchell"), Railway Exchange, Chicago, Ill. (See adv. index and branch offices, end of book)
Wellman-Seaver-Morgan Co. (Steel), Cleveland, O.

Tips (Gas Burner)

Clough, Thos. (Steel), Dobb's Ferry, N. Y.
Kirchberger, M. & Co. (Importers, Lava), 50 Warren, New York
State Line Mfg. Co. (Lava), Chattanooga, Tenn.
Steward, D. M. Mfg. Co. (Lava), Chattanooga, Tenn.
Sunlight Lava Mfg. Co. (Lava), Chattanooga, Tenn.
Thurnauer, G. M. & Bro. (Importers, Lava), 35 Park pl, New York

Tips (Mine Car)

Grant Iron Works ("Wren's"), Mahanoy City, Pa.

Tips or Caps (Railway)

Western Brass Mfg. Works, 21st & Rockwell, Chicago, Ill.

Tips (Rubber)

Goodrich, B. F. Co., Akron, O.
Morgan & Wright (Inc.), (For Chairs, Canes, Crutch, etc.), 226 Jefferson av, Detroit, Mich.

Tips (Shaft)

Automatic Yoke Co., 821 E St. Clair, Indianapolis, Ind.
Buescher Band Instrument Co., Elkhart, Ind.
Cleveland Hdw. Co., Cleveland, O.
Covert Mfg. Co., W. Troy, N. Y.
Cowles, C. & Co., New Haven, Conn.
McKeel, Geo. A. & Co., Jackson, Mich.
Racine Malleable & Wrought Iron Co., Racine, Wis.
Searls Mfg. Co., 27 Mulberry, Newark, N. J.

Tire Fluid

Buffalo Specialty Mfg. Co. (The "Neverleak" & "Glines" Liquid Rubber & "Holdfast" Liquid Shellac Cement for Automobiles & Bicycles), 375 Ellicott, Buffalo, N. Y.

Tire Repair Kits

ANDERSON FORGE & MACHINE CO., 271 Guoin, Detroit, Mich. (See adv. index, end of book)
Diamond Rubber Co., Akron, O.
Hartford Rubber Works Co., Hartford, Conn.
Patterson, Gottfried & Hunter (Ltd.), ("Champion"), 146 Centre, New York

Tires (Automobile)

(See Tires, Various Kinds.)

Tires (Cushioned, Cellular, Etc.)

B. O. K. Tire Co., Goshen, Ind.
Bailey, C. J. & Co. ("Bailey Won't Slip"), 22 Boylston, Boston, Mass.
Fawkes Rubber Co., Mack blk, Denver, Colo.
Firestone Tire & Rubber Co., Akron, O.
Healy Leather Tire Co., 90 Gold, New York
H. M. & S. Armored Tire Co., Pittsburg, Pa.
Krotz Mfg. Co. (Cushion), Springfield, O.
Mesinger, H. & F. Mfg. Co. (Leather), 1801 1st av, New York
National Leather Tire Co., Owosso, Mich.
Rubber Tire Co. ("Lattina"), 1265 Arch, Philadelphia, Pa.
R. & P. Traction Tread Tire & Tube Co., 1965 B'way, New York
St. John Rubber Tire Co., 116 Broad, New York
Tennant Auto Tire Co., 140 W Main, Springfield, O.
Universal Tire Co. (Cushion), St. James bldg, New York
Voorhees Rubber Mfg. Co., 18 Bostwick av, Jersey City, N. J.

Tires (Pneumatic, Double Tube)

Continental Caoutchouc Co. ("Continental"), 43 Warren, New York
Continental Rubber Works ("Palmer"), Erie, Pa.
Diamond Rubber Co., Akron, O.
Elder Mfg. Co., 2305 N Illinois, Indianapolis, Ind.
Electric Rubber Mfg. Co., 253 W 47th, N. Y.
Firestone Tire & Rubber Co. ("Firestone"), Akron, O.
Fisk Rubber Co. ("Fisk" Mechanically Fastened), Chicopee Falls, Mass.
Goodrich, B. F., Co. ("Quick Detachable"), Akron, O.
Goshen Rubber Works, Goshen, Ind.
Goodyear Tire & Rubber Co. (Detachable Clincher), Akron, O.
G. & J. Tire Co. ("G. & J.", "Dunlop"), 549 E Georgia, Indianapolis
Hall Gas Engine Co., Wollaston, Mass.
Harburg Tile Co., 232 W 58th, New York
Hartford Rubber Works Co. ("Hartford", "Won't Slip", "Dunlop's Detachable"), Hartford, Conn.
International Automobile & Vehicle Tire Co. ("Fox" Brand), Milltown, N. J.
Kokomo Rubber Co., Kokomo, Ind.

Mesinger, H. & F. Mfg. Co. (Leather), 1801 1st av, New York
 Morgan & Wright, 19 N May, Chicago, Ill.
 Pennsylvania Rubber Co., Jeannette, Pa.
 Samson Leather Tire Co., 12 W 33d, New York
 Smith & Mabley ("Hercules"), 1765 Broadway, New York
 Western Rawhide Belting Co. (Leather), Milwaukee, Wis.

Tires (Pneumatic, Single Tube)

De Laske & Throop Tire Co., Trenton, N. J.
 Diamond Rubber Co., Akron, O.
 Fisk Rubber Co., Chicopee Falls, Mass.
 Goodrich, B. F. Co., Akron, O.
 Goodyear Tire & Rubber Co., Akron, O.
 Goshen Rubber Works Co., Goshen, Ind.
 Hartford Rubber Works Co., Hartford, Conn.
 International Automobile & Vehicle Tire Co. ("Stodder," "Endurance"), Milltown, N. J.
 Pennsylvania Rubber Co. ("Winner"), Jeannette, Pa.

Tires (Rubber)

Ajax-Grieb Rubber Co. ("Ajax" Carriage), Trenton, N. J.
 American Rubber Works Co. (Whalebone), New Brunswick, N. J.
 Batavia Rubber Tire Co., Batavia, N. Y.
 Broadway Rubber Tire Co., 253 W 47th, New York
 Buckeye Rubber Co. ("Kelly-Springfield" Solid Vehicle), 39 Pine, New York, & Akron, O.
 Calumet Tire Rubber Co., Chicago, Ill.
 Cincinnati Rubber Mfg. Co., Cincinnati, O.
 Continental Rubber Works, Erie, Pa.
 Diamond Rubber Co., Akron, O.
 Elder Mfg. Co., 2305 N Illinois, Indianapolis, Ind.
 Electric Rubber Mfg. Co., Rutherford, N. J.
 Empire Rubber Mfg. Co. (Bicycle, etc.), Trenton, N. J., & 60 Reade, New York
 Firestone Tire & Rubber Co. ("Firestone"), Akron, O.
 Fisk Rubber Co. (Mechanically Fastened), Chicopee Falls, Mass.
 Gaulois Tire Co. ("Gaulois"), B'way & 56th, G. & J. Tire Co., Indianapolis, Ind.
 Goodrich, B. F. Co. (Automobile, etc.), "G. & J.," "Quick Detachable", Akron, O.
 Goodyear Tire & Rubber Co. (Carriage, Automobile Cushion & Bicycle), Akron, O.
 Hamilton Rubber Co., Trenton, N. J.
 Hartford Rubber Works Co. (Pneumatic & Solid Vehicle), Hartford, Conn., & 83 Michigan av., Chicago, Ill.
 Independent Tire & Rubber Co., Akron, O.
 India Rubber Co., Akron, O.
 International Automobile & Vehicle Tire Co. (Automobile, Bicycle & Carriage), Milltown, N. J.
 Kokomo Rubber Co., Kokomo, Ind.
 Manhattan Rubber Mfg. Co., 18 Vesey, N. Y., & Passaic, N. J.
 Metallic Rubber Tire Co., 210 Centre, N. Y.
 Milwaukee Rubber Works Co. ("Tawkes"), Cudahy, Wis.
 Morgan & Wright (Inc.) (Automobile, Bicycle, etc.), 226 Jefferson av, Detroit, Mich.
 Motz Clincher Tire & Rubber Co., Akron, O.
 Munger Automobile Tire Co., Trenton, N. J.
 N. Y. Belting & Packing Co., Ltd. (Carriage & Automobile), 91 Chambers, New York
 Oneida Rubber Tire Works (Automobile, etc.), Oneida, N. Y.
 Penna. Rubber Co. (Automobile, Bicycle, Vehicle, etc.), Jeannette, Pa.
 Penna. Rubber Tire Co., Reading, Pa.
 Republic Rubber Co., Youngstown, O.
 Rubber Tire Wheel Co., Springfield, O.
 St. John Rubber Tire Co., 116 Broad, N. Y.
 Steln Double Cushion Tire Co. (Double Cushioned), Akron, O.
 Stokes, Jos. Rubber Co. (Bicycle, etc.), Trenton, N. J.
 Strohecker, J. A. & Co., Reading, Pa.
 Sweet Tire & Rubber Co., Batavia, N. Y.
 Swinehart Clincher Tire & Rubber Co., Akron, O.
 Victor Rubber Tire Co., Springfield, O.

Tires (Solid)

Ajax-Grieb Rubber Co. ("Ajax55 Carriage"), Trenton, N. J.
 American Wood Tire Co., Monadnock bldg, Chicago, Ill.
 Buckeye Rubber Co. ("Kelly-Springfield"), 39 Pine, New York, & Akron, O.
 Calumet Tire Rubber Co. ("Pegasus"), N 44th & Wabansia avs, Chicago, Ill.
 Detroit Automobile Top Co., 265 Jefferson av, Detroit, Mich.
 Diamond Rubber Co., Akron, O.

Everett, B. F., 63 Forte, Detroit, Mich.
 Firestone Tire & Rubber Co., Akron, O.
 Flint Upholstering Co., Flint, Mich.
 Goodrich, B. F. Co., Akron, O.
 Goodyear Tire & Rubber Co., Akron, O.
 Hartford Rubber Works Co., 691 Park, Hartford, Conn.
 Independent Tire & Rubber Co., Akron, O.
 International Automobile & Vehicle Tire Co., Milltown, N. J.
 Longdin & Brugger, Fond Du Lac, Wis.
 Middleton, Arthur H. ("Hubbard"), 2821 N Broad, Phila., Pa.
 Morgan & Wright, 309 Mich av, Chicago, Ill.
 Motz Clincher Tire & Rubber Co., Akron, O.
 New Jersey Car Spring & Rubber Co. ("Wemoka"), Brunswick & Railroad av, Jersey City, N. J.
 Pennsylvania Rubber Co., Jeannette, Pa.
 Puncture Proof Tire Co., Cleveland, O.
 Springfield Metal Body Co., Birnie av, Springfield, Mass.
 Swinehart Clincher Tire & Rubber Co., Akron, O.

Tires (Steel)

Chester Steel Castings Co., Chester, Pa.; 407 Sansom, Phila., Pa.
 Cambria Steel Co., Johnstown, Pa.
 Carnegie Steel Co., Pittsburgh, Pa.
 Crucible Steel Co. of America, Frick bldg, Pittsburgh, Pa.
 Illinois Steel Co., The Rookery, Chicago, Ill.
 Latrobe Steel Co., Girard bldg, Phila., Pa.
 Lorain Steel Co. (Car & Locomotive), Johnstown, Pa.
 Midvale Steel Co. (Car & Locomotive), Nicetown, Phila., Pa.
 Mowry Car Wheel Works Co., 2401 Eastern av, Cincinnati, O.
 Old Dominion Iron & Nail Works Co. (Round Edge), Richmond, Va.
 Prosser, Thos. & Co. (The Krupp), 15 Gold, N. Y.
 Republic Iron & Steel Co. (Half Oval, etc.), Frick bldg Annex, Pittsburgh, Pa.
 Sheffield Car Co., Three Rivers, Mich.
 Standard Steel Works (Car & Locomotive), 1502 Market, Phila., & Burnham, Pa.
 Sweet's Steel Co., Williamsport, Pa.

Toasters

Crane, W. M. Co. ("The Vulcan"), 1131 B'way, New York
 Johns, H. W.-Manville Co. (Asbestos), 100 William, New York
 Middleton Mfg. Co. ("Carrie's" Brand), Middletown, O.
 Onondaga Mfg. & Promoting Co., Syracuse, N. Y.
 Roseland Can & Specialty Co. ("Roseland"), Rockford, Ill.
 Standard Stamping Co. ("Standard"), Marysville, O.
 Wilson Toaster Mfg. Co. (Bread), Ferguson bldg, Pittsburgh, Pa.

Toboggan Slides

Ingersoll Construction Co., 307 4th av, Pittsburgh, Pa.
 Morris, E. Joy, 902 Walnut, Phila., Pa.
 Phila. Toboggan Co., 130 E. Duval (Germtn), Phila., Pa.

Toe-Calks (Steel)

Always Sharp Horseshoe Calk Mfg. Co., Jersey City, N. J.
 Burke, P. F. (And "Dooley" Toe Calk), Dorr & Dorchester av, S. B., Boston, Mass.
 Franklin Steel Works ("Standard," "Climax," "Sweets"), Cambridge, Mass., & Joliet, Ill.
 Gautier Dept. Cambria Steel Co., Arcade bldg, Philadelphia, Pa.
 Never Slip Mfg. Co. ("Never Slip" Red Tip, Screws In), New Brunswick, N. J.
 O'DONNELL, JAS. (Mill Representative), 32 La Salle, Chicago, Ill.
 West'n Automatic Mach. Screw Co., Elyria, O.
 Williams Drop Forging Co. ("Williams Cant-slip" Screw or Removable)

Tongs (Blacksmiths')

Allen-Randall Co., 336 Birnie av., Springfield, Mass.
 ANDERSON FORGE & MACHINE CO., 271 Guoin, Detroit, Mich. (See adv. index, end of book)
 Evansville Tool Works, Evansville, Ind.
 Vaughan & Bushnell Mfg. Co., 875 Carroll av, Chicago, Ill.

Tongs (Bull)

Harrow Spring Co., Kalamazoo, Mich.

Tongs (Carbon)

Billings & Spencer Co. (Drop Forged), Hartford, Conn.

Tongs (Chain)

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch office, end of book)
 Columbia Mfg. Co. ("Headson"), Lafayette, Ind.
 Dunne, Geo. W. & Co. ("Robbins"), 689 Carroll av, Chicago, Ill.
 Granger's Drop Forge Works, 25 S Canal, Chicago, Ill.
 Kroeschell Bros. Co. ("Ideal"), 55 Erie, Chicago, Ill.
 Schutte, E. G. & Co., Cincinnati, O.
 Western Tool Works (Pipe), Galesburg, Ill.

Tongs (Charging)

Brass Founders Supply Co. (For Brass Fdrs.), Newark, N. J.

Tongs (Cross Tie)

Pittsburg Tool & Drop Forge Co. ("Cheswick"), Cheswick, Pa.

Tongs (Crucible)

ANDERSON FORGE & MACHINE CO., 271 Guoin, Detroit, Mich. (See adv. index, end of book)
 Barnett, Oscar Foundry Co., Newark, N. J.
 Byram & Co., 435 Guion, Detroit, Mich.
 Dicke Tool Co., Downers Grove, Ill.
 NORTHERN ENGINEERING WORKS, Detroit, Mich. (See adv. index, end of book)
 OSBORN MFG. CO., 5401 Hamilton av, N. E., Cleveland, O. (See adv. index, end of book)
 Power & Mining Machinery Co., 52 William, New York. Works, Cudahy, Wis.
 SMITH, J. D. FOUNDRY SUPPLY CO., 1581 Columbus rd, N W, Cleveland, O. (See adv. index, end of book)
 WHITING FOUNDRY EQUIPMENT CO., Harvey, Ill. (See adv. index & branch offices, end of book)

Tongs (Girder)

Solid Steel Tool & Forge Co. ("S. T. S."), Brackenridge, Pa.

Tongs (Hog)

Pratt, Wm. E. Mfg. Co. (The Hill), 91 Lake, Chicago

Tongs (Ice)

Gifford-Wood Co., Hudson, N. Y., and Arlington, Mass.
 Hiles, C. A. & Co., 14th & Western av., Chicago, Ill.
 Louden Machinery Co. (Self Opening), Fairmount, D. E., Groton, N. Y.
 Parks & Parks ("Little Giant" for Domestic Use), Troy, N. Y.
 Stevens, Benj. A. Co., Toledo, O.
 Schutte, E. G. & Co., Cincinnati, O.
 Stortz, Jno. & Son, 210 Vine, Phila., Pa.
 Vaughn & Bushnell Mfg. Co. ("V. & B."), 875 W Carroll av, Chicago, Ill.

Tongs (Joist or Timber)

CARPENTER, GEO. B. & CO., 202 S Water, Chicago, Ill. (See adv. index, end of book)
 Champion Tool & Handle Works, Evert, Mich.
 Oshkosh Tool Mfg. Co. (For Hoisting Timbers, etc., into High Buildings), Oshkosh, Wis.

Tongs (Machinists')

Barnes Tool Co., New Haven, Conn.

Tongs (Piano Hammer Shank)

Kraeuter & Co., Newark, N. J.

Tongs (Pipe)

AMERICAN WELL WORKS, Aurora, Ill.
(See adv. index & branch offices, end of book)

ANDERSON FORGE & MACHINE CO.,
271 Guoin, Detroit, Mich. (See adv. index, end of book)

ASHCROFT MFG. CO., THE
("Brown's, Adjustable, etc."), 85, 87, 89
Liberty, New York. Works, Bridgeport,
Conn. (See adv. index, end of book)

Barnes Tool Co., New Haven, Conn.

Billings & Spencer Co., Hartford, Conn.

Case, W. A. & Son, 31 Main, Buffalo, N. Y.

Crane Co. (Est. 1855), 519 S Canal, Chicago, Ill.

Granger's Drop Forge Works, 25 S Canal, Chicago, Ill.

Harvey, H. H., 608 Atlantic av, Boston, Mass.

Hollands Mfg. Co., Erie, Pa.

Jarecki Mfg. Co., Erie & Pittsburg, Pa.

Knapp, Jas. M., 12 Bowker, Boston, Mass.

OIL WELL SUPPLY CO., 215 Water,
Pittsburg, Pa. (See adv. index, end of book)

Osborne, C. S. & Co., 96 Mechanic, Newark, N. J.

Power Specialty Co. ("Diamond"), Detroit, Mich.

Roemer Reversible Lever Tongs Co. (Reversible), Canton, O.

Saunders', D. Sons, Yonkers, N. Y.

Stortz, Jno. & Son, 210 Vinc, Phila., Pa.

Union Drop Forge Co. (Parts Only), 66 E
Ohio, Chicago, Ill.

Tongs (Rail)

ANDERSON FORGE & MACHINE CO.,
271 Guoin, Detroit, Mich. (See adv. index, end of book)

Atha Tool Co., Newark, N. J.

Beall Bros., Inc., Alton, Ill.

Byram & Co., 435 Guoin, Detroit, Mich.

Doble-Abner Co., 200 Fremont, San Francisco, Cal.

Evansville Tool Works, Evansville, Ind.

Harvey, H. H., 608 Atlantic av, Boston, Mass.

Hubbard & Co., Pittsburg, Pa.

Iron City Tool Works (Ltd.), Pittsburg, Pa.

Pittsburg Tool & Drop Forge Co. ("Cheswick"),
Arrott bldg, Pittsburg, Pa. Works, Cheswick, Pa.

Solid Steel Tool & Forge Co. ("S. T. S."),
Brackenridge, Pa.

Union Drop Forge Co., 66 E Ohio, Chicago, Ill.

Vaughn & Bushnell Mfg. Co. ("V. & O."),
"Drop Forged", Chicago, Ill.

Verona Tool Works, Verona, Pa., & Pittsburg, Pa.

Tongs (Roofing)

Keene, Geo. C. & Co., 2327 Montgomery rd,
Cincinnati, O.

MILWAUKEE CORRUGATING CO., Mil-
waukee, Wis. (See adv. index, end of book)

NIAGARA MACHINE & TOOL WKS.,
Buffalo, N. Y. (See adv. index, end of book)

Peck, Stow & Wilcox Co., Southington, Conn.

Pratt, Wm. E. Mfg. Co. ("Perfect"), 91 Lake,
Chicago, Ill.

Stortz, Jno. & Son, 210 Vine, Phila., Pa.

Tongs (Saw Brazing)

Baldwin, Tuthill & Bolton, Grand Rapids,
Mich.

Tongs (Skidding)

(See Tools, Logging & Lumbermen's.)

Tongs (Stone Handling)

DOBBIE FOUNDRY & MACHINE CO.,
Niagara Falls, N. Y. (See adv. index &
branch offices, end of book)

Lincoln Iron Works (For Handling Finished
Work), Rutland, Vt.

Tongs (Tanners')

Horn, Wm. H. & Bro. ("Diamond," "Crown"),
451 N 3d, Phila., Pa.

Tool Bags (Linemen's)

Dicke Tool Co., Downers Grove, Ill.

Galewski, Adolph, 323 Broadway

Humphrey's, R. A. Sons, 1022 Ridge av,
Phila., Pa.

Klein, Mathias & Son, 87 W Van Buren, Chi-
cago

Peddle, T. B. & Co., 77 St. Francis, Newark,
N. J.

Tool Bags (Masons')

Johnson, Wm. (Hedenberg Works), Newark,
N. J.

Tool Bags (Plumbers')

BERNZ, OTTO, S 13th, cor S Orange av.
Newark, N. J. (See adv. index, end of book)

Galewski, A., 323 Broadway, N. Y.

Johnson, Wm. (Hedenberg Works), Newark,
N. J.

Tool Boxes (Farriers')

WELLS BROS. Co. ("Little Giant"), Green-
field, Mass. (See adv. index, end of book)

Tool Chests

AMERICAN RADIATOR CO. (Steel), Gen-
eral Offices, 282 Michigan av, Chicago, Ill.
(See adv. index & branch offices, end of book)

American Tool-Chest Co. (and Tool Cabinets),
200 W Houston, N. Y.

ANDERSON, W. H., TOOL & SUPPLY CO.,
14 Macomb, Detroit, Mich. (See adv. on
following page)

Jennings, C. E. & Co., 42 Murray, N. Y.

Paine Furniture Co., 48 Canal, Boston

Vanderman Plumbing & Heating Co. (Steel),
Willimantic, Conn.

Tool Posts

Bayldon Machine & Tool Co. ("Bayldon" In-
terchangeable), 18 Morris, Jersey City,
N. J.

Brown & Sharpe Mfg. Co. (Cutting-Off, etc.),
Providence, R. I.

O. K. Tool Holder Co., Shelton, Conn.

Tool Sets

Fray, Jno. L. & Co. (Hollow Handles), Bridge-
port, Conn.

Keystone Drop Forge Works (Drop Forged),
Chester, Pa.

Reed Mfg. Co. (Pipe), Erie, Pa.

United Awl & Needle Co. ("Small" for Hollow
Handles), W Medway, Mass.

***Tool Sets (Automobile)**

ANDERSON FORGE & MACHINE CO.,
271 Guoin, Detroit, Mich. (See adv. index,
end of book)

Tool Stands (Portable)

Western Tool & Mfg. Co. ("Champlon" Mova-
ble Bench), Springfield, Ohio

Tool Steel

(See Steel, Tool.)

***Tooling Tools for Stone Planers**

STONE-WORKING MACHINE CO., 43
Wall, New York (See adv. index, end of
book)

Tools (Adjustable Milling)

(See Mills, Adjustable Hollow.)

Tools (Artesian Well Drilling)

(See Machinery, Well Drilling.)

Tools (Asphalt Paving)

ANDERSON FORGE & MACHINE CO., 271
Guoin, Detroit, Mich. (See adv. index, end
of book)

Contractors' Tool Co., 704 Arch, Phila., Pa.

Iroquois Iron Works, Buffalo, N. Y.

Pioneer Iron Works, 149 Pioneer, Brooklyn,
N. Y.

SCHOLL, JULIAN & CO., 126 Liberty, New
York. (See adv. index & branch offices,
end of book)

Tools (Automobile)

ANDERSON FORGE & MACHINE CO.,
Detroit, Mich. (See adv. index, end of
book)

Blanchard, A. W. ("Blanchard" Tire De-
tacher), 10 Clinton, Brooklyn, N. Y.

Beckley-Ralston Co., 178 Lake, Chicago, Ill.

Brown, J. C. Chain Tool Mfg. Co. (Chain
Tools), Butter, Ind.

Clark, A. N. & Son, Plainville, Conn.

Crane & Richardson, 114 Water, Boston, Mass.

Duane, W. J. & Co. (Tire Irons), 1771 B'way,
New York

Elliott, W. J. & Co. (Tire Removers), 185
Franklin, Boston, Mass.

Essex Mfg. & Supply Co. (Bearing Scrapers),
Newark, N. J.

Gay, E. L. (Gear, Cam & Flywheel Remover),
Southbridge, Mass.

HAMMACHER, SCHLEMMER & CO.
("Tourist Autoklt"), 133 4th av, New
York (See adv. index, end of book)

Handy Combination Tool Co. (Metal Punch &
Bolt Clipper Combined), Bellevue, Ohio

Hatcher Auto Parts Co. (Crimping Tools), 138
Claduct, Cleveland, Ohio

Motor Car Supply Co. ("Husky" Chain Tools),
1427 Michigan av, Chicago, Ill.

Noona Tool & Machine Works, Rome, N. Y.

Rhodes Mfg. Co. (Tire Removers), Grand Rap-
ids, Mich.

Richards Tool Co., 15 Court, Boston, Mass.

Shawyer Co. (Tire Removers, "Springfield"),
Springfield, Ohio

Unedme Tool Co. ("Unedme"), 61 E Spring,
Cincinnati, Ohio

Tools (Bell Centering)

Braunsdorf-Mueller Co., Elizabeth, N. J.

Tools (Blacksmiths')

See Anvils;

Drills, Blacksmiths';

Hammers, Blacksmiths';

Punches, Blacksmiths';

Tongs, Blacksmiths';

Tools, Farriers'.

Tools (Boilermakers')

INGERSOLL-RAND CO., 11 B'way, New
York. (See adv. index & branch offices,
end of book)

Thomson, Alex., Fitchburg, Mass.

Widake, Gustav & Co. (Tube Expanders,
Rivet Hole Reamers, Beading Tools, Tube
Cutters, Center Markers, Rivet Punches,
Dies, etc.), Dayton, Ohio

Tools (Boring)

Armstrong Bros. Tool Co., 104 N San Fran-
cisco av, Chicago, Ill.

Connecticut, Valley Mfg. Co. ("Jennings"
Wood), Chesterbrook, Conn.

Fray, Jno. S. & Co., Bridgeport, Conn.

G. & E. Electric Co., Binghamton, N. Y.

Goodell Mfg. Co., Greenfield, Mass.

Hill Standard Mfg. Co. ("Hill"), Anderson,
Ind.

Lea, Thomas, New Brunswick, N. J.

Mayhew, H. H. Co., Shelburne Falls, Mass.

Miller's Falls Co., Miller's Falls, Mass., &
28 Warren, New York

NATIONAL MFG. CO., Worcester,
Mass. (See adv. index & branch offices,
end of book)

OIL WELL SUPPLY CO., 215 Water,
Pittsburg, Pa. (See adv. index, end of
book)

O. K. Tool Holder Co., Shelton, Conn.

Peck, Stow & Wilcox Co., Southington, Conn.

Western Tool & Mfg. Co. ("Champion"),
Springfield, O.

WHITMAN & BARNES MFG. CO.,
Chicago, Ill. (See adv. index & branch
offices, end of book)

***Tools (Burring)**

WELLS BROS. CO. ("Little Giant"), Green-
field, Mass. (See adv. index, end of book)

Tools (Butchers')

(See specific article required)

Tools (Calking)

ANDERSON FORGE & MACHINE CO.,
271 Guoin, Detroit, Mich. (See adv. index,
Atha Tool Co., Newark, N. J. end of book)
Bradley's, G. W. Sons (Inc.), Westport, Conn.
Brewer Bros. (Boilermakers & Plumbers), 614
Filbert, Phila., Pa.

CARPENTER, GEO. B. & CO., 202 S
Water, Chicago, Ill. (See adv. index, end
of book)

Carver Tool Works, Spring Valley, N. Y.

Drew, C. & Co., Kingston, Mass.

Falls Mfg. Co., San Francisco, Cal.

HAMMACHER, SCHLEMMER & CO.,
133 4th av, N. Y. (See adv. index, end of
book)

Harvey, H. H., 608 Atlantic av. Boston

Mack & Co., Rochester, N. Y.

Osborne, C. S. & Co., Newark, N. J.

Pollard, Joseph G., 141 Raymond, Brooklyn,
N. Y.

Sweeney, P. J. (Rivet Caulking), Roselle, N. J.

White, L. & I. J. Co., Buffalo, N. Y.

Wiedeke, Gustav & Co. (Boilermakers'), Day-
ton, Ohio

Wilcox, Crittenden & Co., Middleton, Conn.

Tools (Carving)

ANDERSON, W. H. TOOL & SUPPLY CO.,
14 Macomb, Detroit, Mich. (See adv. below)

Braunsdorf-Mueller Co., Elizabeth, N. J.

Buck Bros., Millbury, Mass.

Buck, Chas., Millbury, Mass.

HAMMACHER, SCHLEMMER & CO., 133
4th av, N. Y. (See adv. index, end of book)

Mack & Co. ("Addis" Style), Rochester, N. Y.

Miller's Falls Co., Miller's Falls, Mass., & 28
Warren, New York

Tools (Cement Sidewalk)

(See Tools, Concrete Finishing.)

Tools (Comb)

Grimes & Harris, Leominster, Mass.

Tools (Concrete Finishing)

ANDERSON, W. H. TOOL & SUPPLY CO.,
(Edgers, Groovers, Markers, Rollers,
Framers, etc.), 14 & 16 Macomb, Detroit,
Mich. (See adv. below)

Contractors' Tool Co., 704 Arch, Phila., Pa.

Crafts, F. H. (Rollers, Jointers, Edgers, Name
Stamps, etc.), Rochester, N. Y.

Duffy Mfg. Co., 125 Indiana, Chicago, Ill.

Kramer Bros. Foundry Co. ("Gem"), Dayton,
Ohio

Noble, Henry A., 203 Dock, Philadelphia, Pa.

Wodhouse Hardware Mfg. Co., 2620 S 13th,
St. Louis, Mo.

Tools (Condenser Packing)

Hatteson & Drake ("Star"), Bourse bldg,
Phila, Pa.

Tools (Coopers')

American Axe & Tool Co., 253 Broadway, N. Y.

Atha Tool Co., Newark, N. J.

Atkins, E. C. & Co., Indianapolis, Ind.

Bradley's, G. W. Sons (Inc.), Westport, Conn.

Chapin, Stephens Co., Pine Meadow, Conn.

Cincinnati Tool Co., Cincinnati, O.

Collins Co., Collinsville, Conn.

Crescent Novelty Mfg. Co. ("Crescent" Punch),
703 S B'way, St. Louis, Mo.

Doscher Plane & Tool Co. (Hoop Drives, etc.),
Saugatuck, Conn.

Drew, C. & Co., Kingston, Mass.

Emerson, Smith & Co. (Ltd.), Beaver Falls,
Pa.

Evansville Tool Works, Evansville, Ind.

Gregg, M. & Son, Rochester, N. Y.

Iron City Tool Co., Pittsburg, Pa.

Lowell, S. K. & Co., Chelsea, Mass.

Mack & Co. (Axes, Adzes, Anvils, Drawing
Knives Beck Horns, etc.), Rochester, N. Y.

Nagengast, Jos. & Co., Bayonne, N. J.

Ohio Tool Co., Columbus, O.

Piqua Handle & Mfg. Co., Piqua, O.

Sandusky Tool Co. (Wood Tools, etc.), San-
Swan, Jas. Co., Seymour, Conn. dusky, O.

Vaughn & Bushnell Mfg. Co., 877 Carroll av,
Chicago, Ill.

White, L. & I. J. Co., Buffalo, N. Y.

Tools (Cutting-Off)

Armstrong Bros. Tool Co., Chicago, Ill.

Billings & Spencer Co., Hartford, Conn.

Dwight Slate Machine Co., Hartford, Conn.

Fitchburg Machine Wrks, Fitchburg, Mass.

Goodell Mfg. Co., Greenfield, Mass.

Hill Standard Mfg. Co. ("Hill" High Speed),
Anderson, Ind.

O. K. Tool Holder Co., Shelton, Conn.

Pratt & Whitney C., ("Johnson" Cutting-Off
Blades), Hartford, Conn.

Walworth Mfg. Co., 128 Federal, Boston,
Mass.

Western Tool & Mfg. Co. ("Champion"),
Springfield, Ohio

Tools (Diamond)

Baszanger, Jacques & Co., 108 Fulton, New
York

Dickinson, Jno. (Est. of), 64 Nassau, New
York

Grant, Hugh (Black Diamond & Bortz), 62
Commonwealth av., Cleveland, O.

Steel Set Diamond Co., 150 Nassau, New York

Tools (Diamond Point Turning)

Hill Standard Mfg. Co., Anderson, Ind.

***Tools (Diamond Set)**

DESSAU'S, S. SONS (for Truing & Turn-
ing, Grinding Wheels & all other Me-
chanical Purposes), 180 B'way, New York.
(See adv. index, end of book)

Tools (Drill Sharpening)

Atha Tool Co. (Steam Drill Tools), Newark,
N. J.

Plumb, Fayette R., Frankford, Phila., Pa.



GROUT CUTTER



SMOOTHING TROWEL



EDGER



JOINTER



RADIUS TOOL



CENTER KNIFE

SQUARE CORNER
SMOOTHING TROWEL

JOINTER



SIDEWALK ROLLER



DIRT RAMMERS

ANDERSON HIGH GRADE**CEMENT TOOLS****ARE PROPERLY DESIGNED.**

The finishing tools are made of cast brass, including the
handles. The working surfaces are highly polished.

Work can be done cheaper, better and quicker with
Anderson tools than with poor tools. They give satisfaction
to the customer and dealer.

Our catalog, showing more than one hundred cement tools
and appliances for contractors, including the ANDERSON
CONCRETE MIXER, will be sent on application.

W. H. ANDERSON TOOL & SUPPLY CO.**14 & 16 MACOMB STREET, DETROIT, MICH.**

Tools (Drilling & Finishing)

Ackerman & Castle, Lima, O.
AMERICAN WELL WORKS, Aurora, Ill.
 (See adv. index & branch offices, end of book)
 Best, Jno., Warren, Pa.
 Bovaird & Seyfang Mfg. Co., Bradford, Pa.
 Christman Co., Massillon, O.
 Crown Drilling Mach. Co., Akron, O.
 Finlayson, Jno., Sistersville, W. Va.
 Gibsonburg Machine Co., Gibsonburg, O.
 Kavanaugh, Wm. Co., Norwalk, Ohio.
 Kesselman & Co., Butler, Pa., & Parkersburg, W. Va.
 Keystone Driller Co., Beaver Falls, Pa.
 Kittanning Drilling Tool Co., Kittanning, Pa.
 Larkin & Co., Butler, Pa.
 Leidecker Tool Co., Marietta, O.
 Muncie Gas Engine & Supply Co., Muncie, Ind.
OIL WELL SUPPLY CO., 215 Water,
 Pittsburgh, Pa. (See adv. index, end of book)
 Robertson, D. W., Bradford, Pa.
 Sheridan, Jas. J. & Co., Mars, Pa.
 Sinclair & Morrison Co., Lima, O.
 Star Drilling Machine Co., Akron, O.
 Struthers, Wells & Co., Warren, Pa.
 Union Oil Tool Co., Los Angeles, Cal.
 U. S. Engine Co., Parkersburg, W. Va.
 West Virginia Tool Co., Sistersville, W. Va.

Tools (Electricians')

(See Tools. Linemen's.)

Tools (Emergency)

Universal Tool Co. ("Milla's"), Springfield, Mass.

Tools (Expansion Boring)

Davis Expansion Boring Tool Co. (For Boring Mills, Lathes or Drill Presses), 3910 N B'way, St. Louis, Mo.

Tools (Farriers')

Atha Tool Co., Newark, N. J.
 Columbia Tool Co., Jamestown, Pa.
 Doble, Abner Co., San Francisco, Cal.
 Evansville Tool Works, Evansville, Ind.
 Hammond, C. & Son, Ogontz, Pa.
 Heller Bros. Co., Newark, N. J.
 Vaughn & Bushnell Mfg. Co., 877 W Carroll av., Chicago, Ill.
WELLS BROS. CO. ("Little Giant"),
 Greenfield, Mass. (See adv. index, end of book)

Tools (Firing)

Ellis, D. R. & Co. ("Economy" for Boiler Firing), 65 Market, Chicago, Ill.
 Pollard, Jos. G., 141 Raymond, Brooklyn, N. Y.

Tools (Framing)

Topp, G. A. & Co. ("Topp's"), Indianapolis, Ind.

Tools (Granite & Stone Cutters')

(See also Pneumatic Stone Cutting Tools.)

Ahern, Jas., Barre, Vt.
ANDERSON, W. H. TOOL SUPPLY CO.,
 14 Macomb, Detroit, Mich. (See adv. on preceding page)
 Braunsdorf-Mueller Co., Elizabeth, N. J.
 Brown, James H., 139 3d av., Brooklyn, N. Y.
 Brunner & Lay, 133 W Polk, Chicago, Ill.
 Clark, Alex. & Co., Quincy, Mass.
DALLETT, THOS. H. CO. (Pneumatic,
 etc.), York & Sedgley av., Phila., Pa. (See adv. index, end of book)
 Davey, J. H., New London, Conn.
 Drummond, D. T., Quincy, Mass.
HAMMACHER, SCHLEMMER & CO.,
 133 4th av., New York. (See adv. below)
 Hauck, Wm. J., 306 Southwest boul., Kansas City, Mo.
 Harvey, H. H., 608 Atlantic av., Boston
HEARTLEY MACHINE, VARIETY IRON
 & Tool Works, Toledo, O. (See adv. index, end of book)
 Heathcote, Thos., 829 Penna. av., Allegheny, Pa.
 Isele, A. W. & Son, 51 Pitts, Boston
 Kelley, Benj. & Co., Belfast, Me.
 Kemp, J. F., Quincy, Mass.
 Livingston Mfg. Co., Rockland, Me.
 Mead, I. V. & Co., 418 E 110th, N. Y.
 Mitton, Job G. & Son 27 S 23d, Phila., Pa.
 Nutting & Hayden, Concord, N. H.
 Pinel Bros., Quincy, Mass.
 Rhode Island Granite Tool Co., Westerly, R. I.
 Schueddig, F. Son, 525 S Jefferson, St. Louis, Mo.
 Spargo, Edward, 68 Commerce, New Haven, Conn.
 Stubbs Steel Co., 47 N 5th, Phila., Pa.
 Sullivan & Donahue, Westerly, R. I.
 Therien Tool Works, 116 1st av., N. Minneapolis, Minn.
 Trow & Holden, Barre, Vt.
 Vogt Tool Co., 1910 Walnut, Kansas City, Mo.
 Wells, Chas. & Sons, 235 Mill, Rochester, N. Y.
 Willbas, Gustaf, Quincy, Mass.
 Wood, W. T. & Co., Arlington, Mass.

Tools (Gun Cleaning & Reloading)

Bridgeport Gun Implement Co. (Cleaning & Reloading), Bridgeport, Conn.
 Faries Mfg. Co. ("C. M. Powers," Cleaners), Decatur, Ill.
 Lefever Arms Co. ("Ideal"), Syracuse, N. Y.
 Marlin Fire Arms Co. (Reloading), New Haven, Conn.
 Parker Bros. (Cleaning & Reloading), Meriden, Conn.
 Remington Arms Co. (Reloading), 313 B'way, New York
 Reversible Tube Cleaner Co. ("Criss-Cross" Gun Cleaning Rods), Worcester, Mass.
 Savage Arms Co. (Reloading), Utica, N. Y.
 Stevens, J. Arms & Tool Co. (Reloading Cartridges), Chicopee Falls, Mass.
 Union Hardware Co. (Cleaning & Reloading), Torrington, Conn.

U. S. Cartridge Co. ("Belcher's" Automatic Magazine Cartridge Loader), 497 Pearl, New York; Factory, Lowell, Mass.
 Waterburg Brass Co. (Reloading), Waterbury, Conn.
 Winchester Repeating Arms Co. (Reloading), New Haven, Conn.

Tools (Haying)

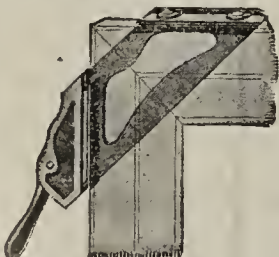
Akron Machine Co., Akron, O.
 Appleton Hay Tool Co., Appleton, Wis.
 Rutterfield & Co., Derby Line, Vt.
 Eureka Mower Co., Utica, N. Y.
 Herschel, R. Mfg. Co., Peoria, Ill.
 Hunt, Helm, Ferris Co., Harvard, Ill.
 Iowa Farming Tool Co., Ft. Madison, Ia.
 Janesville Hay Rake Co., 59 Clark, Chicago, Ill.
 Jenkins Hay Rake Stacker Co., Brownling, Mo.
 Law Mfg. Co., Merriam Park, Minn.
 Loudon Machinery Co., Fairfield, Ia.
 Martin-Anderson Co., Omaha, Neb.
 Milwaukee Hay Tool Co., Milwaukee, Wis.
 Myers, F. E. & Bro., Ashland, O.
 Ney Mfg. Co., Canton, O.
 Ney, V. L. Co., Canton, O.
 Oshkosh Logging Tool Co., Oshkosh, Wis.
 Patten, Frank C. Co., Sycamore, Ill.
 Porter, J. E. Co., Ottawa, Ill.
 Rock River Machine Co., Janesville, Wis.
 Stowell Mfg. & Foundry Co., South Milwaukee, Wis.
 Swanson, T. Mfg. Co., Shenandoah, Ia.
 Syracuse Chilled Plow Co., Syracuse, N. Y.
 Western Hay Tool Co., Ottumwa, Ia.
WHITMAN & BARNES MFG. CO.,
 Chicago, Ill. (See adv. index & branch offices, end of book)
 Withington & Cooley Mfg. Co., Jackson, Mich.

*Tools (High Speed)

NICHOLLS, WM. S. (for Lathe & Planer),
 253 B'way, New York. (See adv. index, end of book)

Tools (Ice)

ANDERSON, W. H. TOOL & SUPPLY CO.,
 14 Macomb, Detroit, Mich. (See adv. on preceding page)
 Arcade Mfg. Co., Freeport, Ill.
 Bodenstein, J. G. & Co., Staatsburgh, N. Y.
 Dornell, H. F. & Co., Athens, N. Y.
 Enterprise Mfg. Co. (Ice Shredders, etc.), 3d cor Dauphin, Phila., Pa.
 Falls Mfg. Co., San Francisco, Cal.
 Farwell, Ozmun, Kirk & Co. (Wholesale Dealers), St. Paul, Minn.
 Gardiner Tool Co., Gardiner, Me.
 Gerlach, Peter & Co., 1708 Columbus Rd., Cleveland, O.
 Gifford-Wood Co., Hudson, N. Y., & Arlington, Mass.
 Gruman, Geo. B., Branchville, Conn.
HEARTLEY MACHINE, VARIETY
 Iron & Tool Works, Toledo, O. (See adv. index, end of book)

**AUTOMATIC MITRE CLAMP.**

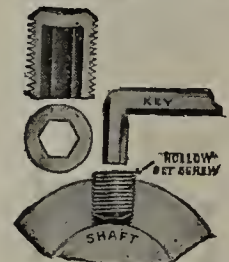
Will adjust and clamp a mitre in less time than it takes to make a full turn of a single screw.
 Send for Circular No. 2220.

**JORGENSEN HAND SCREWS.**

Adjust to any angle or position. Rapid, efficient, strong and durable.
 Send for Circular No. 2221.

**H. S. & CO. HACK SAW BLADES.**

A high grade dependable blade recommended where quality is essential. Tell us what you want to cut and we will send samples.
 Also ask for Circular No. 2222.

**HOLLOW SET SCREWS.**

Set below the surface and are positively life-saving. Conform with the factory laws.
 Send for Circular No. 2223.

OUR LINES INCLUDE TOOLS FOR ALL TRADES; HARDWARE OF ALL KINDS;
 BOLTS, SCREWS, NUTS AND SUPPLIES.

HAMMACHER, SCHLEMMER & CO., NEW YORK SINCE 1848 (4TH AVE. & 13TH ST.)

Hiles, C. A. & Co. (Chisels, Bars, etc.), 14th & Western av., Chicago, Ill.
 Jennings, C. E. & Co., 42 Murray, New York.
 Works, Chester, Conn.
 Landers, Frary & Clark, New Britain, Conn.
 Norton Mfg. Co. (Awls, Chisels, Picks, etc.), Chester, Conn.
 Ohio Brass Co., Mansfield, Ohio
 Stevens, Benj. A. Co., Toledo, Ohio.
 Stortz, Jno. & Son, 210 Vine, Phila., Pa.
 Streeter, N. R. & Co., Rochester, N. Y.
 White, L. & I. J. Co., Buffalo, N. Y.

Tools (Jewelers')

(See Tools, Watchmakers & Jewelers.)

Tools (Key Seating)

Hill Standard Mfg. Co. ("Hill"), Anderson, Ind.

Tools (Knurling)

Goodell-Platt Co. (Hand), Greenfield, Mass.

Tools (Lathe Threading)

Standard Machinery Co. ("Wilson"), Bowling Green, Ohio

Tools (Lathe & Planer)

Almond, T. R. Mfg. Co. (Turret Head or Monitor Lath Attachment), 83 Wash'n, Brooklyn, N. Y.

ANDERSON FORGE & MACHINE CO., 271 Union, Detroit, Mich. (See adv. on following page)

Armstrong Bros. Tool Co., 104 N San Francisco
 Atha Tool Co., Newark, N. J.
 Billings & Spencer Co., Hartford, Conn.
 Braunsdorf-Hueller Co., Elizabeth, N. J.
 Dwight Slate Machine Co., Hartford, Conn.
 Fitchburg Machine Works, Fitchburg, Mass.
 Hill Standard Mfg. Co. ("Hill" "Eberhardt"), Anderson, Ind.

Meriden Machine Tool Co., Meriden, Conn.
 Niles-Bement-Pond Co., 111 B'way, New York
 O. K. Tool Holder Co., Shelton, Conn.
 Quincy-Manchester Sargent Co. (Planer for Curving Surfaces), Old Colony bldg., Chicago, Ill., & 114 Liberty, New York
 Reed, F. E. Co., 120 Gold, Worcester, Mass.
 Stortz, Jno. & Son, 210 Vine, Phila., Pa.
 Superior Tap Co. (Thread Cutting), Springfield, Vt.

Western Tool & Mfg. Co. ("Champion" Side Tool) Springfield, Ohio
 Whitcomb-Blaisdell Machine Tool Co., Worcester, Mass.

Tools (Linemen's)

Dicke Tool Co., Downers Grove, Ill.
 Hubbard & Co., Pittsburg, Pa.
 Klein, Mathias & Son, 87 W Van Buren, Chicago
 Stortz, Jno. & Son, 210 Vine, Phila., Pa.

Tools (Logging & Lumberman's)

ANDERSON, W. H. TOOL & SUPPLY CO., 14 Macomb, Detroit, Mich. (See adv. index, end of book)

Avery & Co., Portland, Ore.
CARPENTER, GEO. B. & CO., 202 S Water, Chicago, Ill. (See adv. index, end of book)

Champion Tool & Handle Works, Evert, Mich.
 Clyde Iron Works (Inc.), Duluth, Minn.
 Evert Tool Co., Ltd., Evert, Mich.
 Gerlach, Peter & Co., 1708 Columbus Rd., Cleveland, O.

Grays Harbor Iron Works, Hoquiam, Wash.
 Loggers Supply Co., Seattle, Wash.
 Morley Bros. (Inc.), Saginaw, Mich.
 Northwestern Mfg. Co., Duluth, Minn.
 Oshkosh Tool Mfg. Co., Oshkosh, Wis.

Parker Hoist & Machine Co. (Skidding Tongs), 971 N Francisco av., Chicago, Ill.

Prouty, C. & Co., Eldred, Pa.
 Remick, A. R., Kelso, Wash.
 Sanford, A. Logging Tool Co., Oshkosh, Wis.
 Simonds Mfg. Co., Fitchburg, Mass.
 Simonds Mfg. Co., 201 Magazine, New Orleans, La.
 Stocker Bros. & Co., Saginaw, Mich.

Tools (Machinists' Hand)

(See Specific Article Required.)

(See also Machinists' Tools & Supplies.)

Tools (Marble Workers')

(See Tools, Granite & Stone Cutters.)

Tools (Masons')

Brunner & Lay, 133 W Polk, Chicago, Ill.

Tools (Meter Sealing)

Diamond Meter Co., Peoria, Ill.

Tools (Milling Machine)

Brown & Sharpe Mfg. Co., Providence, R. I.
OWEN MACHINE TOOL CO. (Tool Sets), Springfield, O. (See adv. index, end of book)

Pratt & Whitney Co., Hartford, Conn.
WHITMAN & BARNES MFG. CO., Chicago, Ill. (See adv. index & branch offices, end of book)

WELLS BROS. CO. ("Little Giant," Hollow Milling), Greenfield, Mass. (See adv. index, end of book)

Tools (Mining)

Beall Bros. (Inc.), ("Old Alton"), Alton, Ill.
 Beaver Falls Mfg. & Fuel Co., Beaver Falls, Pa.
 Cyclone Machine Co., Pittston, Pa.
 Hardocg, Martin Co., Allegheny, Pa.
 Iwan Bros., Streator, Ill.
 Pittsburg Tool & Drop Forge Co. ("Cheswick"), Cheswick, Pa.
 Union Machine Co., Zanesville, O.

Tools (Mitreing)

Carver Tool Works, Spring Valley, N. Y.
 Waverly Mfg. Co. ("Nolan"), Waverly, Minn.

Tools (Molders')

Barnett, Oscar Foundry Co. ("Monk's"), Newark, N. J.
 Burr's Damascus Tool Works, 36 Fort, B, Detroit, Mich.
 Diston, Henry & Sons (Inc.), Tacony, Philadelphia, Pa., & 75 W Wash'n, Chicago, Ill.
 Dobson, Wm., Canastota, N. Y.

HAMMACHER, SCHLEMMER & CO., 133 4th av., New York. See adv. index, end of book

Obermayer, S. Co., 647 Evans, Cincinnati, O. (See adv. index & branch offices, end of book)

OSBORN MFG. CO., 5401 Hamilton av., N E, Cleveland, O. (See adv. index, end of book)

SMITH, J. D. FOUNDRY SUPPLY CO., 5181 Columbus rd., N. W., Cleveland, O. (See adv. index, end of book)

Tools (Oysterman's)

(See also Knives, Oyster & Clam)

Doscher Plane & Tool Co. (Oyster Blocks, etc.), Saugatuck, Conn.
 Stortz, Jno. & Son, 210 Vine, Phila., Pa.

Tools (Packing)

Matteson & Drake ("Star" Condenser), Bourse bldg., Phila., Pa.
 Mound Tool & Scraper Co. (& Scraping), 710 Howard, St. Louis, Mo.

STRONG MACHINERY & SUPPLY CO., 48 Franklin, New York. (See adv. index, end of book)

Vaughn & Bushnell Mfg. Co. ("V. & B." Hook, or Screw Pattern), 867 Carroll av., Chicago, Ill.

Tools (Paper Hangers')

Ridgely Trimmer Co., Springfield, O.
 Smith, H. J. Mfg. Co. ("20th Century" Paper Cutter, etc.), 79 E 130th & Park av., N. Y.
 Standard Trimmer Co., Springfield, O.
 Stortz, Jno. & Son, 210 Vine, Phila., Pa.
 Vantine, C. C. ("March" Chasing Wheel, etc.), Flndlay, O.
 Watson, Geo. E. Co., 108 Lake, Chicago, Ill.
 Webster & Perks Tool Co. ("Simplex"), Springfield, O.

Tools (Paving)

(See also Tools, Concrete Finishing; also Tools, Asphalt Paving)

Ames Plow Co., Quincy Hall, Boston, Mass.
ANDERSON, W. H. TOOL & SUPPLY CO., 14 & 16 Macomb, Detroit, Mich. (See adv. index, end of book)

Crescent Novelty Mfg. Co. ("Crescent & Maurer's" Granitoid Sidewalk), 703 S. B'way, St. Louis, Mo.

Hauck, Wm. J. (Concrete, etc.), 306 Southwest boul., Kansas City, Mo.

Lyman, W. C., 49 Michigan, Chicago, Ill.
 Orr & Lockett Hardware Co., 71 Randolph, Chicago, Ill.

Pollard, Jos. G., 141 Raymond, Brooklyn, N. Y.
 Trow & Holden, Barre, Vt.

Tools (Pitching)

ANDERSON, W. H. TOOL SUPPLY CO., 14 Macomb, Detroit, Mich. (See adv. index, end of book)

Atha Tool Co., Newark, N. J.
 Contractors' Tool Co., 704 Arch, Phila., Pa.
 Crescent Novelty Mfg. Co., 703 S B'way, St. Louis, Mo.

Evansville Tool Works, Evansville, Ind.
 Mack & Co., Rochester, N. Y.
 Plumb, Fayette (Inc.), Frankford, Philadelphia
 Stortz, Jno. & Son, 210 Vine, Phila., Pa.

Tools (Planer)

(See Tools, Lathe & Planer.)

Tools (Plasterers')

Braunsdorf-Mueller Co., Elizabeth, N. J.
 Doscher Plane & Tool Co. (Floats, Darbys Plumb Rules & Mortar Hocks), Saugatuck, Conn.
 Story, Herbert (Aluminum Plasterers' Hocks, etc.), 23 Duane, New York

Tools (Plumbers' & Tinnners')

Barnes Tool Co. (For Plumbers & Steam Fitters only), New Haven.
 Berger Bros Co. (Tinnners, Roofers, etc.), 237 Arch, Phila., Pa.
BERNZ, OTTO, S 13th & S Orange av., Newark, N. J. (See adv. index, end of book)

Carver Tool Works, Spring Valley, N. Y.
 Doscher Plane & Tool Co. (Plumbers' Turn Pins, Dressers, Drift Plugs, etc.), Saugatuck, Conn.

Fleck Bros. Co. ("K. Korkers"), 50 N 5th, Phila., Pa.

Johnson, Wm. (Hedenberg Works), Newark, N. J.

MERCHANT & EVAN CO. (Inc.) (Tinnners' Tools & Machines), 517 Arch, Phila., Pa. (See adv. index & branch offices, end of book)

Mueiler, H. Mfg. Co., Decatur, Ill.
NIAGARA MACHINE & TOOL WKS., (Tinnners Only), Buffalo, N. Y. (See adv. index, end of book)

Stortz, Jno. & Son, 210 Vine, Philadelphia, Pa.

Tools (Pneumatic)

(See Pneumatic Tools.)

Tools (Pump)

Brown, Harold J., 120 Liberty, New York.
 Mack & Co., Rochester, N. Y.

Tools (Railroad Track)

AMERICAN BRAKE SHOE & FOUNDRY CO., 170 B'way, New York. Works & Sales Office, Chicago Heights, Ill. (See adv. index & branch offices, end of book)

ANDERSON, W. H. TOOL SUPPLY CO., 14 Macomb, Detroit, Mich. (See adv. index, end of book)

Atha Tool Co., Newark, N. J.
 Beall Bros. (Inc.), Alton, Ill.

Buda Foundry & Mfg. Co., Harvey, Ill., & Railway Exchange bldg., Chicago, Ill.
CAREY, GEO. H., 1 B'way, New York. (See adv. index, end of book)

Columbus Forge & Iron Co., Columbus, O.

Eyeless Tool Co., Newark, N. J.

FAIRBANKS, MORSE & CO., Franklin & Monroe, Chicago, Ill. (See adv. index & branch offices, end of book)

Handlan-Buck Mfg. Co., 212 N 3d, St. Louis, Mo.
 Hubbard & Co., Pittsburg, Pa.
 Iron City Tool Works, Pittsburg, Pa.
 Isle, A. W. & Son, Boston, Mass.
 Jones & Laughlin Steel Co. (Ltd.), Pittsburg, Pa.
KINSEY, E. A. CO., 331 W 4th, Cincinnati, O. (See adv. index, end of book)
 Klein, Logan Co., S 13th & Breed, Pittsburg, Pa.
 Lovejoy Tool Works, 90 Ohio, Chicago, Ill.
 MacPherson Switch & Frog Co., Niagara Falls, N. Y.
 Motley, Green & Co. (Inc.), 68 Broad, N. Y.
 Plumb, Fayette (Inc.), Frankford, Phila., Pa.
 Sheffield Car Co., Three Rivers, Mich.
 Solid Steel Tool & Forge Co. ("S. T. S."), Brackinridge, Pa.
 Union Drop Forge Co., 66 E Ohio, Chicago, Ill.
 Verona Tool Works, Verona, Pa., & Pittsburg, Pa.
WILLIAMS, J. H. & CO., 150 Hamilton av., Brooklyn, N. Y. (See adv. index, end of book)
 Zelnicker, Walter A. Supply Co., St. Louis, Mo.

Tools (Rock Drill Sharpening)

Evansville Tool Works, Evansville, Ind.
INGERSOLL-RAND CO., 11 B'way, New York. (See adv. index & branch offices, end of book)

Tools (Saddlery)

Horn, Wm. H. & Bro. ("Diamond," "Crown"), 451 N 3d, Phila., Pa.

*Tools (Scraping)

STRONG MACHINERY & SUPPLY CO. (Hollow & Flat Ground for Scraping Valves, Journals, Bearings, etc.), 48 Franklin, New York. (See adv. index, end of book)

Tools (Screw Machine)

Brown & Sharpe Mfg. Co., Providence, R. I.
 Pratt & Whitney Co., Hartford, Conn.

*Tools (Sewer Contractors')

ANDERSON, W. H. TOOL & SUPPLY CO., 14 Macomb, Detroit, Mich. (See adv. index, end of book)

Tools (Ship Carpenters')

(See Adze Mfrs.; also Mallets; also Tools Calking.)

Tools (Shoemakers')

Harrington Cutlery Co., Southbridge, Mass.
 Harrington, T. J., Southbridge, Mass.
 Horn, Wm. H. & Bro. ("Diamond," "Crown"), 451 N 3d, Phila., Pa.
 Hyde Mfg. Co., Southbridge, Mass.
 Krieg, C. W. & Co., 110 Reade, New York.
 Krieg, J. K. & Co., 39 Warren, New York.
 Snell & Atherton, Brockton, Mass.
 Richard, Stephen Co., Southbridge, Mass.
 Woodward & Wright ("E. C. W." Heeling Bolt), Campello, Mass.

Tools (Slaters')

ANDERSON FORGE & MACHINE CO., 271 Union, Detroit, Mich. (See adv. below)
 Belden Machine Co., New Haven, Conn.
FLORY, S. MFG. CO., Bangor, Pa. (See adv. index, end of book)
 Isele, A. W. & Son (Hammers, Cutters, Stakes, Scratching Bars, etc.), 51 Pitts, Boston
NIAGARA MACHINE & TOOL WKS., Buffalo, N. Y. (See adv. index, end of book)
 Peck, Stow & Wilcox Co., Southington, Conn.
 Stortz, Jno. & Son (Hammers, Rippers, Staikes, etc.), 210 Vine, Phila., Pa.

Tools (Tanners' & Curriers')

Baker, G. W. & Co., Wilmington, Del.
 Horn, Wm. H. & Bro. ("Diamond," "Crown"), 451 N 3d, Phila., Pa.

*Tools (Telephone Construction)

ANDERSON, W. H. TOOL & SUPPLY CO., 14 Macomb, Detroit, Mich. (See adv. index, end of book)

Tools (Thread Chasing)

Kelly, P. J. ("Climax"), Elizabeth, N. J.

Tools (Thread Cutting)

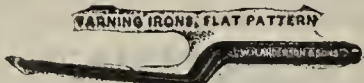
Armstrong Bros. Tool Co., 104 N San Francisco av, Chicago, Ill.
ARMSTRONG MFG. CO., Bridgeport, Conn., & 139 Centre, New York. (See adv. index, end of book)
 Billings & Spencer Co. (and Diamond Point), Hartford, Conn.
 Cenant & Donelson Co. ("Little David," Screw Cutting), Greenfield, Mass.
 Hart Mfg. Co. ("Duplex"), Cleveland, O.
 Hill Standard Mfg. Co. ("Hill"), Anderson, Ind.
 Kirkpatrick Saddle Co., Springfield, O.
 Modern Tool Co. (Spring), Erie, Pa.
 O. K. Tool Holder Co., Shelton, Conn.
 Pratt & Whitney Co., Hartford, Conn.
 Rivett-Dock Co., Boston, Mass.
 Rivett Lathe Mfg. Co., Brighton, Boston, Mass.
 Tucker, W. W. & C. F., 302 Asylum, Hartford, Conn.
 Walworth Mfg. Co., 132 Federal, Boston, Mass.
 Western Tool & Mfg. Co. (Spring & Solid Holder), Springfield, O.

Tools (Toy)

Arcade Mfg. Co. (Iron & Wood), Freeport, Ill.
 Wrightsville Hardware Co., Wrightsville, Pa.



MALLET HEAD FLOOR CHISELS



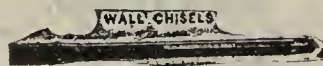
WARNING IRONS, FLAT PATTERN



DIAMOND AGRICULTURAL COLD CHISELS



PLUGGING OR JOINTING CHISELS



WALL CHISELS



HAMMER HEAD FLOOR CHISELS



STRAIGHT A. & L. CAULKING TOOLS



HALF ROUND REAMERS



CAULKING HAMMERS



ANDERSON SUPERIOR CHAIN TONGS



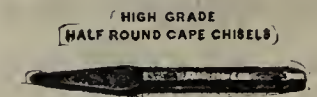
STRAIGHT CEILING DROP CAULKING TOOLS



HIGH GRADE COLD CHISELS



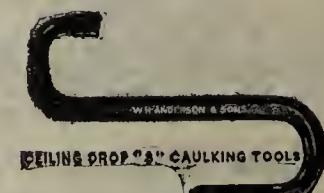
HIGH GRADE CAPE CHISELS



HIGH GRADE HALF ROUND CAPE CHISELS



HIGH GRADE DIAMOND POINTS



CEILING DROP CAULKING TOOLS

ANDERSON HIGH GRADE COLD CHISELS AND PLUMBERS' CAULKING TOOLS.

Our high grade cold chisels are used by many of the large railroads and manufacturing concerns. They have found them more durable and economical than tools made in their own shops. They are made from special steel by men who know how.

Our Plumbers' Tools are equally good. A catalogue of more than THREE HUNDRED tools will be sent on request.

ANDERSON FORGE & MACHINE CO.,

271 Guoin Street,

DETROIT, MICH.

Tools (Turpentine)

Bradley's, G. W. Sons, (Inc.), Westport, Conn.
Evansville Tool Works, Evansville, Ind.
Warren Axe & Tool Co., Warren, Pa.

Tools (Walk Cleaning)

Continental Tool Co., Frankfort, N. Y.
Iowa Farming Tool Co., Ft. Madison, Ia.

Tools (Watchmakers' & Jewelers')

American Watch Tool Co., Waltham, Mass.
Bullock Mfg. Co., 172 Dwight, Springfield, Mass.

Coats, Fred R., Springfield, Ill.
Gesswein, F. W. Co., 39 John, New York
Hardinge Bros., 1036 Lincoln av, Chicago, Ill.
Job, F., Wilkes-Barre, Pa.
Kendrick & Davis, Lebanon, N. H.
Koch, Alfred S., Lancaster, Pa.
Langelier Mfg. Co., 67 Clifford, Providence, R. I.

McWilliams Mfg. Co., Providence, R. I.
Mann, Chas. A., Providence, R. I.
Morgan, Edwd., 15 Franklin, Newark, N. J.
Oliver, W. W. Mfg. Co., 1483 Niagara, Buffalo, N. Y.

Randall, Frank E., Waltham, Mass.
Rivett-Lathe Mfg. Co., Brighton, Boston, Mass.

Standard Machinery Co., Providence, R. I.
Stehman & Coho Mfg. Co., Lancaster, Pa.
Stark Tool Co., Waltham, Mass.
Thurston Mfg. Co., Providence, R. I.
Waltham Watch Tool Co., Springfield, Mass.

Tools (Wood Turning)

Carroll-Jamieson Machine Tool Co., Batavia, O.
Swan, Jas. Co. (Parting), Seymour, Conn.

Tooth Pick Mfrs.

Estes, E. B. & Sons, 74 Warren, New York
Peirce, W. E. & Co., Milford, N. H.

*Topmast Balls

McMILLAN'S, W. H. SONS, 153 South, New York. (See adv. index, end of book)

Tops (Automobile & Vehicle)

American Buggy Top Co., Jackson, Mich.
Anderson, F. W. & Co., 1419 Montrose, Phila., Pa.

Automobile Equipment Co., Detroit, Mich.
Baltimore Buggy Top Co., 700 Penna av, Baltimore, Md.

Barndt-Johnston Auto Supply Co., Columbus, Ohio
Bauer Bros. Mfg. Co., 939 W. 8th, Cincinnati, Ohio

Buob & Schen, 410 E. Court, Cincinnati, O.
Cartier, Chapman & Co., Lexington, Mich.
Central Mfg. Co., Connersville, Ind.
Columbus Buggy Co., Columbus, O.
Detroit Automobile Top Co., Detroit, Mich.
Detroit Carriage Co., Detroit, Mich.
Detroit Motor Car Supply Co., Detroit, Mich.
Duane, W. J. & Co., 1771 B'way, N. Y. City
Dunham, D. B. & Son, Rahway, N. J.
Dusenborg, Louis, 86 Worth, N. Y. City
Empire Gear & Top Co., 413 N 22d, Philadelphia, Pa.

Emsdorf Buggy Co., Dubuque, Iowa.
Everett, B. F., 63 Fort E, Detroit, Mich.
Halliday, C. A., Oneida, N. Y.
Hill Mfg. Co., 23 Fuller, Buffalo, N. Y.
Hubbell & Waterhouse Co., 601 N Main, St. Louis, Mo.

Indianapolis Dash Co., 2116 S Meridian, Indianapolis, Ind.

Initial Toe Pad Co., Three Rivers, Mich.
Keystone Wagon Works Co., Reading, Pa.
Kimball, C. P. & Co., 315 Michigan av, Chicago, Ill.
King Mfg. Co., Springfield, Ohio.
Kroh, C. Z. Mfg. Co., Toledo, Ohio
Larimore Top Co., 428 Light, Baltimore, Md.
London Auto. Supply Co., 1229 Michigan av, Chicago, Ill.

McClellan, Chas. P., Fall River, Mass.
Meyer, C. G., Main & Ann, Tiffin, O.
Michigan Top Co., Detroit, Mich.
Morton, Robt. E., 26 South, N. Y. City
Myers Auto Top Co., Dayton, O.
Quler, C. D. Top Co., Kansas City, Mo.
Racine-Sattley Co., Racine, Wis.

Rands Mfg. Co., Detroit, Mich.
Ratterman & Luth, 1911 W 8th, Cincinnati, O.
Schubert Bros. Gear Co., Oneida, N. Y.
Shelter Top Co., 1240 N Main, St. Louis, Mo.
Sprague Umbrella Co. ("Sprague"), Norwalk, Ohio

Springfield Auto Top & Upholstering Co., Springfield, Mass.
Springfield Metal Body Co., Springfield, Mass.
Teel, E. & Co., Medford, Mass.

Troy Carriage Sunshade Co., Troy, Ohio
Vehicle Apron & Hood Co., Columbus, O.
Vehicle Supply Co., 728 N Main, St. Louis, Missouri

Welss, Charles, 4725 Cottage Grove av, Chicago, Ill.
Wells, L. J., Des Moines, Ia.

*Tops (Marble Table)

CASCIO, S., 797-803 Lexington av, Brooklyn, N. Y. (See adv. index, end of book)

Tops (Milk & Beer Bottle)

Hazel Atlas Glass Co. (Stamped or Forged), Wheeling, W. Va.

Tops (Pole)

Anderson, Albert & J. M. Mfg. Co., 287 A. S., Boston, Mass.

Cutter, Geo. Co., 129 Fulton, Chicago, Ill.
Electric Ry. Equipment Co., 1938 W 8th, Cincinnati, Ohio

Therien Tool Works, 116 1st av, N, Minneapolis, Minn.

Torches (Alcohol)

A. D. Mfg. Co. (Romeyn), Detroit, Mich.
BERNZ, OTTO, S 13th & S Orange av, Newark, N. J. (See adv. in next column)
Clayton & Lambert Mfg. Co., Detroit, Mich.
Climax Mfg. Co., Waltham, Mass.

Holland, Wm., 54 S Clinton, Chicago, Ill.
Knapp Mfg. Co., 22 Frankfort, N. Y.
Osborne, C. S. & Co., Newark, N. J.
Turner Brass Works ("Wilson"), 66 Michigan, Chicago, Ill.

Vallee Bros. Electrical Co., 625 Arch, Philadelphia, Pa.

*Torches (Car Inspectors')

WILSON, F. CORTEZ & CO., 239 Lake, Chicago, Ill. (See adv. index, end of book)

Torches (Cast Iron)

Forest City Fdry. & Mfg., Cleveland, O.

Torches (Electric)

Bogart, A. L., 123 Liberty, N. Y.
Electric Contract Co. (Portable, for Plumbers), 175 Grand, New York

Torches (Factory, Acetylene)

MacLeod, Walter & Co. (Oil or Gasoline), 213 E Pearl, Cincinnati, O.

WILSON, F. CORTEZ & CO., 239 Lake, Chicago, Ill. (See adv. index, end of book)

Torches (Factory & Mine)

Clayton & Lambert Mfg. Co. (Gasoline), Detroit, Mich.

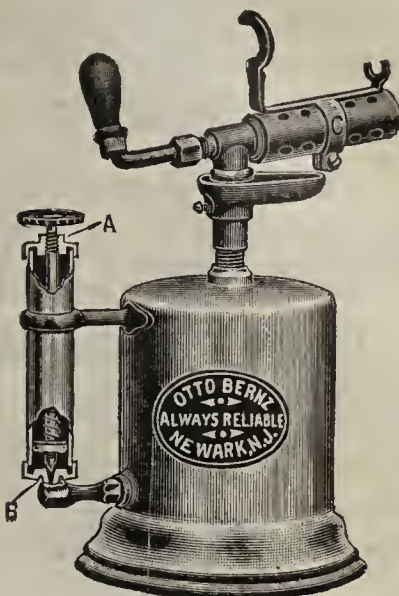
Gem Mfg. Co. ("Gem"), Pittsburg, Pa.
Turner Brass Works, 66 Michigan, Chicago, Ill.
Wall, P. Mfg. & Supply Co. (Brazen Steel), Allegheny, Pa.

When writing to firms whose names appear in this book please mention

HENDRICKS' COMMERCIAL REGISTER.

Torches (Gasoline, Etc.)

American Stove Co., 414 N 6th, St. Louis, Mo.
BERNZ, OTTO ("Vulcan Galloway"), S 13th cor S Orange av, Newark, N. J. (See adv. below)



TORCHES

Our Torches are fitted up with our Patent adjustable soldering iron holders, which can easily be removed when not required. Also have our improved "never-leak" pumps, the plungers of which screw down and are always out of the way.

Notice our "A.B.C." Improvements. Each one packed in a wooden box, and guaranteed to be in perfect condition when it leaves the factory.

OTTO BERNZ, NEWARK, N. J.

Best Light Co., Canton, O.
Bridgeport Brass Co., Bridgeport, Conn., & 19 Murray, N. Y.

Clayton & Lambert Mfg. Co., Detroit, Mich.
Dangler Stove & Mfg. Co., 365 Perkins av, Cleveland, O.

Globe Gas Light Co., 77 Union, Boston, Mass.
Hydro-Carbon Burner Co. ("Khotal"), 197 Fulton, N. Y.

MacLeod, Walter & Co., 213 E Pearl, Cincinnati, Ohio

National Cement & Rubber Mfg. Co., Toledo, Ohio
Phillips & Harmon, Northville, Mich.

Smith, Chas. G. (Gasoline, etc.), 352 Pearl, New York

Standard Lighting Co., Cleveland, O.
Turner Brass Works (Hand), 66 Michigan, Chicago, Ill.

Union Furnace Mfg. Co., Union Furnace, Pa.
Zeidler Lamp & Brass Co. ("Baby" Burns Without Air Pressure), Lomira, Wis.

Torches (Gasoline Blow)

A. D. Mfg. Co. ("Romeyn"), Detroit, Mich.
Acorn Brass Mfg. Co., 51 N Peoria, Chicago, Ill.

American Stove Co., St. Louis, Mo.
Barthel Blow Lamp Co. ("also Kerosene"), Boston, Mass.

Best Light Co., Canton, O.
BERNZ, OTTO ("Always Reliable"), S 13th & S Orange av, Newark, N. J. (See adv. above)

Boekel, Wm. & Co., 518 Vine, Philadelphia, Pa.
Bridgeport Brass Co. ("Vulcan," "Queen"), Bridgeport, Conn.

Clayton & Lambert Mfg. Co., Detroit, Mich.
Climax Mfg. Co., Hartford, Mass.

Climax Specialty Co., Seneca Falls, N. Y.
Emmelmann Bros. Mfg. Co. (Gasoline Soldering Iron & Blow Torch), Indianapolis, Ind.

Gefrörer, C. & Son, 248 N 8th, Philadelphia, Pa.
Globe Light & Heat Co., ft Orleans, Chicago, Ill.

Holland, Wm., 54 S Clinton, Chicago, Ill.
Hull, J. S. Mfg. Co., 125 E Falls, Baltimore, Md.

Hydrocarbon Burner Co., 197 Fulton, N. Y.
Johnson, Wm. (Hedenberg Works) (Plumbers'), Newark, N. J.

Knapp Mfg. Co., 22 Frankfort, N. Y.
MacLeod, Walter & Co. ("Buckeye"), 213 E Pearl, Cincinnati, Ohio

Reserve Foundry & Mfg. Co., 1302 Euclid av., Cleveland, O.
 Roberts, H. C. Electric Supply Co., 831 Arch, Philadelphia, Pa.
 Schneider & Trenkamp Co. ("Reliable"), Cleveland, Ohio
 Smith, Chas. G. (Plumbers), 352 Pearl, New York
 Sun Vapor Street Light Co., Canton, O.
 Transcendent Lamp Co. ("Transcendent" Kerosene), 134 Mott, New York
 Turner Brass Works, 66 Michigan, Chicago, Illinois
 Union Heater Supply Co., Detroit, Mich.
 Wellington Mfg. Co., 470 Cherry, N. Y.

Torches (Locomotive)

Gray, Peter & Sons, 88 Union, Boston, Mass.
 Knapp Mfg. Co., 25 Frankfort, New York
WILSON, F. CORTEZ & CO., 239 Lake, Chicago, Ill. (See adv. index, end of book)

Torches (Railroad Hand)

Akron Mfg. Co., Akron, O.
 Gem Mfg. Co. ("Gem"), Pittsburg, Pa.
 Knapp Mfg. Co. (Locomotive, etc.), 24 Frankfort, New York
 McClintock & Irvine Co. (Steel), Neville & P. R. R., Pittsburg, Pa.
 Noera Mfg. Co. (Inspectors' & Locomotive), Waterbury, Conn.
WILSON, F. CORTEZ & CO., 239 Lake, Chicago, Ill. (See adv. index, end of book)

Torches (Shop & Engine)

Dayton Malleable Iron Co. (Made Entirely of Malleable Iron), Dayton, O.
 Deverell Perfection Mfg. Co., 36 Bridge, Brooklyn, N. Y.
 Gem Mfg. Co. ("Gem"), Pittsburg, Pa.
 McClintock & Irvine Co. (Brazed Steel Torches & Oilers), Neville & P. R. R., Pittsburg, Pa.
 Noera Mfg. Co., Waterbury, Conn.
WILSON, F. CORTEZ & CO., 239 Lake, Chicago, Ill. (See adv. index, end of book)

Torches (Wall)

Turner Brass Works, 66 Michigan, Chicago, Ill.

Torpedoes

Acme Railway Signal & Mfg. Co., Peoria, Ill.
 Backes, Michael Sons, Wallingford, Conn.
 Bradford Torpedo Co., Bradford, Pa.
 Clarendon Torpedo Co., Titusville, Pa.
 Co-operative Torpedo Co., Montpelier, Ind.
 Gibbons Torpedo Co., Bradford, Pa.
 Granite Railway Signal Co., Bouquet & Granite av., Allegheny, Pa.
 Hall, Ellis & Son, Oil City, Pa.
 Harper, Mrs. Ann, Oil City, Pa.
 Hume's Torpedo Co., Butler, Pa.
 Hunt, Edmund S. & Sons, Weymouth, Mass.
 Kansas Torpedo Co., Chanute, Kan.
 Kuhn, J. R. Torpedo Co., Parkersburg, W. Va.
 Marietta Torpedo Co., Marietta, O.
 Milliken & French, Sistersville, W. Va.
 Penna. Torpedo Co., Butler, Pa.
 Producers Torpedo Co., Marietta, O.
 Rock Glycerine Co. (Smokeless), Bradford, Pa., & Kent, Pa.
 Western Railway Signal Co. (Railroad), Fostoria, O.
 Western Torpedo Co., Chanute, Kan.

Torpedoes (Toy)

Backes, Michael Sons, Wallingford, Conn.
 Hunt, Edmund S. & Sons, Weymouth, Mass.

Torpedoes & Fuses (Railway Signal)

Acme Railway Signal & Mfg. Co., Peoria, Ill.
 Backes, Michael Sons, Wallingford, Conn.
 Columbia Fire Cracker Co., Bucyrus, O.
 Granite Railway Signal Co., Allegheny, Pa.
 Jackson's, Sam'l Sons, 1129 S 15th, Phila., Pa.
 Ohio Fog Signal Co., Fostoria, O.
 United States Railway Signal Co., Fostoria, O.
 Western Railway Signal Co. (Red Fire), Fostoria, O.

Tow

Ashland Flax Mill Co., Ashland, O.
 Blehdon, V. R., Buffalo, N. Y.
 Coleman, M. R., New London, O.
 Keogh Excelsior Mfg. Co., Chicago, Ill.
 Keogh, John W. & Co., 13 Michigan av., Chicago, Ill.
 Minnesota Fibre Co., Heron Lake, Minn.
 Wallace, J. I., Jackson, Minn.

Towels (Absorbent Machinery Wiping)

Devon Mills (Geo. S. Browne, Proptr), Providence, R. I.

Towers (Cement Cooling)

United Iron Works Co., Springfield, Mo.

*Towers (Chemical)

BETHLEHEM FOUNDRY & MACHINE Co. (Grover & Gay Lussac & Broome Exhaust), Front st, South Bethlehem, Pa., & 149 B'way, New York. (See adv. index, end of book)

*Towers (Coal Handling)

HAYWOOD CO., THE (Incline, Steeple & Traveling), 99 Cedar, New York. (See adv. index, end of book)

Towers (Hoisting, for Coal & Ore)

Hoshor-Platt Co., 120 Liberty, New York
 Milholland, J. & J. B. Co., 718 5th av., Pittsburg, Pa.
ROBINS CONVEYING BELT CO., 19 Park Row, New York. (See adv. index, end of book)

Towers (Steel)

(See Towers & Tanks, Water.)

Towers (Water Cooling)

Alberger Condenser Co., 95 Liberty, N. Y.
 Burhorn, Edwin ("Burhorn"), 71 Wall, New York
GRAVER, WM. TANK WORKS, East Chicago, Ind. (See adv. index, end of book)
 International Steam Engineering Co. ("Jennison"), Atlanta, Ga., & 141 B'way, New York
 Ruemmeli-Dawley Mfg. Co. ("Graders"), 3900 Choteau av., St. Louis, Mo.
 Stocker, Geo. J. (Fanless), 2836 Victor, St. Louis, Mo.
 United Water Works Co. (For Ice Plants), Springfield, Mo.
 Wheeler, C. H., Condenser & Pump Co. ("Wheeler-Pratt"), 26 Cortlandt, N. York
 Wheeler Condenser & Engineering Co. ("Barnard"), 42 B'way, New York

Towers & Tanks (Water)

(See Tanks & Towers (Water). Also Water Columns or Stations, Railroad, also Stand Pipes.)

Toy Banks

Arcade Mfg. Co., Freeport, Ill.
 Columbia Grey Iron Co., Columbia, Pa.
 Globe Machine & Stamping Co., Cleveland, O.
 Hubley Mfg. Co., Lancaster, Pa.
 Nicol & Co., 66 N Jefferson, Chicago, Ill.
 Reading Hardware Co., Reading, Pa.
 Shultz & Staples ("Keyless" Basket), 34 Wabash av., Chicago, Ill.
 Williams, A. C. Co., Ravenna, O.
WORCESTER PRESSED STEEL CO. (Successors to Worcester Ferrule & Mfg. Co.), Worcester, Mass. (See adv. index, end of book)

Toys (Electric)

Carlisle & Finch Co., Cincinnati, O.
 Diamond Electric Co., Warren, O.
 Green Electric & Novelty Mfg. Co., Chicago, Ill.
 Howard Miniature Lamp Co., New York

Ithaca Electric Novelty Co., Ithaca, N. Y.
 Knapp Electric & Novelty Co. ("Electric Questioner"), 511 W 51st, New York
 Lionel Mfg. Co., 4 White, New York
 Louis Mfg. Co., New York
 Ohio Electric Works, Cleveland, O.
 Rhode Island Telephone & Electric Co. (Bal Dynamo), Providence, R.
 Russell Electric Co., Danbury, Conn.
 Stein & Langlos Electric Mfg. Co., New York
 Tardy, E. J., 221 6th av., New York
 Universal Novelty Co. (Magic Lanterns), E 21st, New York

• Toys (Iron & Steel)

Arcade Mfg. Co., Freeport, Ill.
 Blacklock Foundry Co., South Pittsburg, Tenn.
 Hews, A. H. & Co., North Cambridge, Mass.
 Hubley Mfg. Co., Lancaster, Pa.
 Ingersoll, Robt. H. & Bro., 51 Maiden Lane, New York
 Ideal Mfg. Co., 546 Franklin, Detroit, Mich.
 Ives Mfg. Corp'n, Bridgeport, Conn.
 Kraus, Emil H., 140 B'way, Cleveland, Ohio
 Nat'l Novelty Corp., 826 B'way, N Y City
 New England Specialty Co., North Easton, Mass.
 Rollman Mfg. Co., Mt. Joy, Pa.
 Stevens, J. & E. Co., Cromwell, Conn.
 Weeden Mfg. Co., New Bedford, Mass.
 Williams, A. C. Co., Ravenna, Ohio.
 Withington & Cooley Mfg. Co., Jackson, Mich.
 Wrightsville Hardware Co., Wrightsville, Pa.
WORCESTER PRESSED STEEL CO. (Successors to Worcester Ferrule & Mfg. Co.), Worcester, Mass. (See adv. index, end of book)

Toys (Rubber)

Faultless Rubber Co. (Balloons, Balls, etc.), Akron, Ohio
 Goodrich, B. F. Co., Akron, Ohio.
 N. Y. Rubber Co., 84 Reade, New York.

Toys & Novelties

American Doll & Toy Mfg. Co., 49 W 13th, N Y City
 American Metal Wheel & Toy Co., Toledo, O.
 Austin & Crow, So Norwalk, Conn.
 Bevin Bros. Mfg. Co., Easthampton, Conn.
 Borgfeldt, Geo. & Co., 3d & Wooster, N Y City
 Bradley, Milton Co., Springfield, Mass.
 Butler, Otis P. (Wood), West Ridge, N. H.
 California Notion & Toy Co., San Francisco, Cal.
 Carriage & Toy Co., Baltimore, Md.
 Clark, D. P. & Co., Dayton, O.
 Columbia Grey Iron Co., Columbia, Pa.
 Converse & Co., Winchendon, Mass.
 Dayton Pattern & Model Works, Dayton, O.
 Eliesac Mfg. Co., Castile, N. Y.
 Elm City Mfg. Co., New Haven, Conn.
 Estes, E. B. & Sons, 45 John, N Y City
 Fanner Mfg. Co., Cleveland, O.
 Foyer Steel Stamping Co. (Barrows, etc.), Painesville, O.
 Garton Toy Co., Sheboygan, Mich.
 Gibbs Mfg. Co., Canton, O.
 Gilbert, A. & Sons (Wood), Derby, Conn.
 Gong Bell Mfg. Co., Easthampton, Conn.
 Granite State Mfg. Co., Concord, N. H.
 Hampden Toy Co., Westfield, Mass.
 Hammond, J. T. & Son, 4334 Hedge, Phila., Pa.
 Harris Toy Co., Toledo, O.
 Hawes, J. H. Mfg. Co. (Spinning Tops Building Blocks, Furniture, Return Balls Jumping Ropes, etc.), Towanda, Pa.
 Hill Brass Co., Easthampton, Conn.
 Horsman, E. & Co., 365 B'way, N Y City
 Ingersoll, Robert H. & Bro., 365 B'way, N Y City
 Instructive Toy Co., 477 40th, Milwaukee, Wis.
 Iowa Farming Tool Co., Ft. Madison, Ia.
 Jones & Biler Mfg. Co., Freemans
 Kindergarten Toy Co., Indianapolis, Ind.
 Kirby Mfg. Co., Middletown, Conn.
 Kirk-Latty Mfg. Co. (Wheelbarrows, etc.), Cleveland, O.
 Knapp Electric & Novelty Co., 511 W. 51st, N Y City
 Lionell Mfg. Co., 4 White, N Y City
 Lloyd Mfg. Co. (Carriages, Wagons, Go-carts, etc.), Minneapolis, Minn.
 Mace, L. L. & Co., 111 E Houston, N Y City
 Melnecke & Son, Milwaukee, Wis.
 Murphy Mfg. Co., Stamford, Conn.
 Mount Pleasant Tool Co., Mt. Pleasant, Pa.
 Nashau Novelty Works, Nashau, N. H.
 National Novelty Corp., 826 B'way, N Y City
 Nelnske, Adolph & Son, Milwaukee, Wis.

L & C HARDTMUTH'S "KOH-I-NOOR" TRACING CLOTH

In Rolls 24 Yards Long

30 · 36 · 40

42 · 48 & 54

Inches
Wide.



Extra
Transparent.

Resists Ink Perfectly.

Retains a Dry Surface.

Is Uniform in Shade.

Free from Pin Holes.

Specially Adapted
for Photo Copying.

INDISPENSABLE TO
ARCHITECTS & DRAUGHTSMEN



Koh-i-noor

Tracing Cloth

| | | | | | | Per Roll |
|----|------|-------|----|--------|------|----------|
| 24 | yard | Roll, | 30 | inches | wide | \$6.20 |
| 24 | " | " | 36 | " | " | 6.90 |
| 24 | " | " | 42 | " | " | 9.20 |
| 24 | " | " | 48 | " | " | 12.30 |
| 24 | " | " | 54 | " | " | 13.20 |

SOLD BY

E. G. SOLTSMANN

(ESTABLISHED 1880)

DRAWING MATERIALS

ARCHITECTS' AND ENGINEERS' SUPPLIES

SUN AND ELECTRIC PRINTS

125 East 42nd Street

(Next to Grand Central Station)

NEW YORK, N. Y.

(SEE OTHER SIDE)

New England Lock & Hinge Co. (Toy Hardware), Winchendon, Mass.
 New Haven Toy & Game Co., New Haven, Conn.
 Novelty Mfg. Co., Waterbury, Conn.
 Good Toy Co., Manchester, N. H.
 Fidget Novelty Co., 265 B'way, N. Y. City
 Leuger & Henger Mfg. Co., St. Louis, Mo.
 Leading Hardware Co., Reading, Pa.
 Lockwell, Jno. L., Monroeton, Pa.
 Tollman Mfg. Co., Mt. Joy, Pa.
 Richmond Cedar Works, Richmond, Va.
 Tunnels, E. A. & Co., Boston, Mass.
 Wheeler, Geo., Dumont, N. J.
 Schlesinger, Leo & Co., 372 South, N. Y. City
 Schultz Novelty Co., 132 Nassau, N. Y. City
 South Bend Toy Mfg. Co. (Game Boards, Croquet, Baseball Bats, Doll Cabs, Go-carts, etc.), South Bend, Ind.
 Schulze, Thos., Sons, Cleveland, O.
 Himer, Wm., Son & Co., Freemansburg, Pa.
 Port Mfg. Co., North East, Pa.
 Sidney Novelty Co., Sidney, N. Y.
 Towel Co., Putney, Vt.
 Leischman, Richard, 85 Water, N. Y. City
 Toledo Metal Wheel Co. (Automobiles, Carriages & Tricycles), Toledo, O.
 Toledo Carriage Woodwork Co., Toledo, O.
 Travers, G. W., 10 Grand, N. Y. City
 Vells Bros. & Co., Greenfield, Mass.
 Whitney Reed Chair Co., Leominster, Mass.

*Tracing Cloth Powder

SOLTMANN, E. G.
 (also Everything for the Architect, Engineer & Draughting Room), 125 E 42d, New York.
 (See adv. index, end of book)

Tracing Cloth & Paper

American Tracing Cloth Co. ("Peerless"), 11 Broadway, New York; factory at Paterson, N. J.
HARDMUTH, L. & C. ("Koh-I-Noor"), 34 E 23d, New York. (See adv. index, end of book)

SOLTMANN, E. G.
 (also Everything for the Architect, Engineer & Draughting Room), 125 E 42d, New York.
 (See adv. index, end of book)

Vellum Paper Co. (Paper), San Francisco, Cal.

Track Cleaners (Street Railway)

Van Dorn & Dutton Co., Cleveland, O.

Track Drills

(See Drills, Railway Track.)

Track Gauges

(See Gauges, Track.)

Track Laying Cars

(See Cars, Track Laying.)

Track Movers (Railway)

Mann-McCann ("Creese"), Fisher bldg., Chicago, Ill.

Track Sanders

(See Locomotive Sanders.)

Track Scales

(See Scales, Track.)

Track Scrapers

(See Scrapers, Track.)

Track Sprinklers

(See Cars, Sprinkling, Street Railway.)

Track Tools

(See Tools, Railroad Track.)

Tracking (Slaughter House)

Brecht, Gus. V. Butchers' Supply Co. (Overhead), 1201 Cass av., St. Louis, Mo.

Tracks (Hay Carrier)

Hunt, Helm, Ferris & Co. ("Star" Steel & Wood), Harvard, Ill.
 Ney, V. L. Co., Canton, O.

Tracks (Portable)

(See Railways, Industrial & Portable.)

Tracks (Steel Highway)

Steel Highway Track Construction Co., Drexel bldg., Phila., Pa.

Train Rolls

Danville Foundry & Machine Co., Danville, Pa.
 Hogg, Geo. A. Iron & Steel Foundry Co., 24th & R. R. av., Pittsburg, Pa.
 United Engineering & Foundry Co., Farmers' Bank bldg., Pittsburg, Pa.
 Vulcan Foundry & Machine Co., New Castle, Pa.

Trammels

Massachusetts Tool Co., Greenfield, Mass.
 Sawyer Tool Co., Fitchburg, Mass.
 Starrett, L. S. Co. (Extension Beam, etc.), Athol, Mass.

Tramways (Aerial)

(See Wire Rope Tramways.)

*Tramways & Pulley Blocks for Cotton Mills

COHOES IRON FOUNDRY & MACHINE Co., Cohoes, N. Y. (See adv. index, end of book)

Tramways & Trolleys

(See Trolleys & Trolley Tracks, Overhead.)

Transfer Ornaments (Car Ceiling)

National Decalomania Co., Philadelphia, Pa.
 Palm Bros. & Co., Cincinnati, O.
 Palm-Fechteler & Co., 80 5th av., New York

Transfer Scrolls

National Decalomania Co., Philadelphia, Pa.
 Palm Bros. & Co., Cincinnati, O.
 Palm-Fechteler & Co., 80 5th av., New York

Transfer Tables (Electric, for Railroads)

Nichols, Geo. P. & Bro., Old Colony bldg., Chicago, Ill.
NORTHERN ENGINEERING WORKS, Chene, Detroit, Mich. (See adv. index, end of book)

WHITING FOUNDRY EQUIPMENT Co., Harvey, Ill. (See adv. index, end of book)

Transformers

Aaron Electric Co., 141 S Clinton, Chicago, Ill.
ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)
 Diamond Meter Co., Peoria, Ill. (See adv. index & branch offices, end of book)
Fort Wayne Electric Works, Ft. Wayne, Ind.
GENERAL ELECTRIC CO., Schenectady, N. Y., & 44 Broad, New York. (See adv. index & branch offices, end of book)
 Kuhlman Electric Co., Elkhart, Ind.
 La Roche, F. A. Co., 658 Hudson, N. Y.
 Louisville Electric Supply Co., 412 2d, Louisville, Ky.
 McLean, H. E., 143 Federal, Boston, Mass.
 Moloney Electric Co., 425 N 2d, St. Louis, Mo.
 National Brake & Electric Co. ("Ceco"), Milwaukee, Wis.
 New York & Ohio Co. (The Packard), Warren, O.
 Peerless Electric Co., Warren, O.
PHOENIX ELECTRIC CO., Mansfield, O. (See adv. index, end of book)
 Pittsburg Transformer Co., Barker pl nr Penn av., Pittsburg, Pa.

St. Louis Electrical Supply Co. (The Peerless), 1118 Pine, St. Louis, Mo.
 Van Dorn-Elliott Electric Co., Cleveland, O.
 Vindex Electric Co., Aurora, Ill.
 Wagner Electric Mfg. Co. (Lighting & Motor), 2015 Locust, St. Louis, Mo.
 Warren Electric & Specialty Co. ("The Peerless"), Warren, O.
 Western Electric Co., 259 S Clinton, Chicago, & 57 Bethune, N. Y.
WESTINGHOUSE ELECTRIC & MFG. Co. (Core & Shell Type, for Power & Light), Pittsburg, Pa. (See adv. index & branch offices, end of book)
 Wotten Electric & Mfg. Co. (Surgical Alternating Current), 52 Greenwood av., Atlanta, Ga.

*Transformers (Static)

PHOENIX ELECTRIC CO., Mansfield, O. (See adv. index, end of book)

Transits

Richardson-Oliver Co., Athol, Mass.
 Starrett, L. S. Co. (Leveling), Athol, Mass.

*Transits & Levels for Engineers

SOLTMANN, E. G.
 (Also everything for the Architect, Engineer & Draughting Room), 125 E 42d, New York. (See adv. index, end of book)

Translucent Fabrics

Translucent Fabric Co., Quincy, Mass.

Transom Adjusters

Greene, Tweed & Co. ("Empire"), 109 Duane, New York

Transom Lifts

Dearborn Hardware Co. ("Dearborn" Grip Self Locking), 488 Carroll av., Chicago, Ill.
 Hine-Watt Mfg. Co., 60 Wabash av., Chicago, Ill.
 New York Blind & Transom Adjuster Co., 71 B'way, N. Y.
 Ormsby, E. A., 10 Thacher, Boston, Mass.
 Payson Mfg. Co., 1319 W Jackson boul., Chicago, Ill.
 Reading Hardware Co., Reading, Pa.
 Reading Screw Co. (Colton Self-Locking Push Button), Norristown, Pa.
 Supplee Hardware Co., 503 Market, Phila., Pa.
 Yale & Towne Mfg. Co., 9 Murray, N. Y. Works: Stamford, Conn.

Transplanters (Tobacco)

Fuller & Johnson Mfg. Co., Madison, Wis.
 McSherry Mfg. Co., Middletown, O.
 Nagley Mfg. Co. (Onondaga Automatic for all kinds of Plants), Lyons, N. Y.
 Stoddard Mfg. Co., Dayton, O.

Trap Rock

Bouker Contracting Co., 21 State, New York
 Bound Brook Crushed Stone Co., Bound Brook, N. J.
 Brown & Fleming Contracting Co., 129 Broad, New York
 Clinton Point Stone Co., 170 B'way, N. York
 Conklin & Foss, Rockland Lake, N. Y., & 135 Front, New York
 Connecticut Trap Rock Quarries, New Haven, Conn.
 Cook Stone & Ice Co., Plainville, Conn.
 Dyer, Jno. T. Quarry Co., Norristown, Pa., & 15th & Market, Philadelphia, Pa.
 Flynt, W. N. Granite Co., Monson, Mass.
 Glen Mills Crushed Stone Co., 27 Chestnut, Phila., Pa., & Glen Mills, Pa.
 Gray Bros. (Crushed), Hayward bldg., San Francisco, Cal.
 Keenan, D. F., 721 Main, Hartford, Conn.
 Lane Construction Corp'n, Meriden, Conn.
 McKiernan & Bergin, Paterson, N. J.
 Manhattan Trap Rock Co., 114 Liberty, New York
 Middle Valley Trap Rock & Mining Co., Middle Valley, N. J.
 Nyack Trap Rock Co., Nyack, N. Y.

Pierce, B. D., Jr., 122 Bank, Bridgeport, Conn.
 Rockland Lake Trap Rock Co. (Crushed or Broken), 135 Front, New York, & Rockland Lake, N. Y.
 Rocky Hill Stone Co., Hartford, Conn.
 Shanley, B. M. & J. F. Co., Arcade Bldg, Philadelphia, Pa., & 859 Broad, Newark, N. J.
 Spence Bros., 2923 Euclid av, Cleveland, O.
 Storm King Crushed Stone Co., 80 William, New York
 Tidewater Trap Rock Co., East Haven, Conn.
 West Roxbury Trap Rock Co., Grove cor Centre, W. R., Boston, Mass.

Traps (Back Water)

Barrett, Jas. Mfg. Co., 211 Franklin, Boston, Mass.
 Miller Specialty Co. (and Cellar Drains), North Tonawanda, N. Y.
PERFECT SEWER TRAP MFG. CO., 61 Beekman, New York. (See adv. below)
 Swett, A. L. Iron Works, Medina, N. Y.

Traps (Bath & Basin)

A. D. Mfg. Co. (Nickel Plated), Detroit, Mich.
 Climax Specialty Co., Seneca Falls, N. Y.
 Crescent Mfg. Co. (Brass), Connellsville, Pa.
 Ideal Mfg. Co. (Laboratory), 546 Franklin, Detroit, Mich.
 Ireland & Matthews Mfg. Co. ("Boss" & S), Detroit, Mich.
 McAuliffe Non-Syphoning Trap Co. ("McAuliffe"), Chelsea, Mass.
 Ohio Brass & Iron Mfg. Co., Cleveland, O.
 Scully, W. J. Co. (Scully Self-Cleaning), Detroit, Mich.
 Sieben, Henry, 305 W 12th, Kansas City, Mo.
 Sure Seal Trap Co. ("Nickel Plated Brass"), Wolverine Brass Works, Grand Rapids, Mich.

Traps (Bell)

Barber Mfg. Co., Ashtabula, O.
 Edwardsville Brass Co. (Brass), Edwardsville, Ill.

Traps (Bi-Metallic Plated)

American Shot & Lead Co., 319 N 4th, St. Louis, Mo.
 A. D. Mfg. Co., Beaubien & Trombley, Detroit, Mich.
 LeRoy Shot & Lead Works, 261 Water, N. Y.
 United Lead Co., 71 B'way, New York

Traps (Centrifugal)

Ideal Mfg. Co., 546 Franklin, Detroit, Mich.

Traps (Gopher)

Falls Mfg. Co. ("Nox-All"), Dead Shot & Double Grip, San Francisco, Cal.

Traps (Grease)

Barrett, Jas. Mfg. Co., 211 Franklin, Boston, Mass.
 Estabrook's, R. Sons, "Estabrook," "Boston," 204 W 1st, S. B., Boston, Mass.
 Morrison-Kretschmer Co., Dubuque, Ia.
 Mott, J. L. Iron Works (Tucker & "Tobey"), 5th av & 17th st, N. Y.

Traps (Mole)

Chandler, D. G. & Co., Sylvania, O.

Traps (Railway, Steam)

CHICAGO CARHEATING CO., Railway Exchange bldg, Chicago, Ill. & 170 B'way, New York (See adv. index, end of book)
 Houghton, E. F. & Co. (Marck), 240 W. Somerset, Phila., Pa.
WILLIAMS, D. T. VALVE CO., 904 B'way, Cincinnati, O. (See adv. index end of book)

Traps (Rat & Mouse)

Abingdon Trap Co. ("H"), Abingdon, Ill.
 Delphos Mfg. Co. (Lightning Re-set), Delphos, O.
 Detroit Wire & Iron Wks. ("Smith's Never Escape" & Improved "Morty" Pattern) Detroit, Mich.
 Lovell Mfg. Co., ("Anchor"), Erie, Pa.
 Piggott Mfg. Co., (Mirror Decoy), 9 Woodward av
 Smith & Egge Mfg. Co., Bridgeport, Conn.
 Stansbury, H. O. Co., 18 N 6th, Phila.
 Sun Mfg. Co., Columbus, O.
 Wire Goods Co. (Wire & Wood Bottom), Worcester, Mass.
 Worcester Wire Novelty Co. ("Hold-Em"), Canton, O.

Traps (Sewer Gas)

Albany Brass & Iron Co., Albany, N. Y.
 Bailey-Farrell Mfg. Co., 3d av & Ross, Pittsburgh, Pa.
 Barrett, Jas. Mfg. Co., 211 Franklin, Boston.
 Barry Mfg. Co., Muscatine, Ia.
 Boston Brass Co., 36 Oliver, Boston, Mass.
 Clarke, Robert, 98-Schermerhorn, Brooklyn, N. Y.
 Connolly Supply Co. (The "Globe"), Non-Syphoning, 1071 Atlantic av, Brooklyn, N. Y.
 Crawford Specialty Co. ("Crawford" Adjustable Sink & Foundry, Brass), 100 North Cudell, F. E., Cleveland, O.
 Dececo Co., 155 High, Boston, Mass.
 Detroit Sanitary Supply Co., 27 Jefferson av, Detroit, Mich.
 DuBois, F. N. & Co. (Anti-Syphon Trap Vent), 245 9th av, New York
 Goulds Mfg. Co., 16 Murray, New York, & Seneca Falls, N. Y.
 Humphreys Mfg. Co., Mansfield, O.
 Hydraulic Specialty Co., 427 Walnut, Phila., Pa.
 Ideal Mfg. Co., 546 Franklin, Detroit, Mich.
 Illinois Malleable Iron Co., 30 W Monroe, Chicago, Ill.
 Jenkins Mfg. Co. ("Sanos"), Bloomfield, N. J.
 King Mfg. Co., Watervliet, N. Y.
 McCambridge & Co. (Ltd.), 315 N 20th, Philadelphia, Pa.
 Monarch Brass Co. ("Bower"), Cleveland, O.
 Mott, J. L. Iron Works, 118 5th av, New York
 Northwestern Foundry & Supply Co. (Cast Iron), Orleans nr Grand boul, Detroit, Mich.
 Ohio Brass & Iron Mfg. Co., 1199 Franklin av, Cleveland, O.
 Park & McKay Co., 55 Bagley, Detroit, Mich.
PERFECT SEWER TRAP MFG. CO., 61 Beekman, New York. (See adv. below)
 Providence Steam Trap Co. (Lead & Brass), 16 Diamond, Providence, R. I.
RUMSEY & CO. (Ltd.), Seneca Falls, N. Y. (See adv. index & branch offices, end of book)
 Spronl & McGurrian (Grease Traps), 37 S Division, Grand Rapids, Mich.
 Standard Sanitary Mfg. Co., Bessemer bldg, Pittsburgh, Pa.
 Sure Seal Trap Co. (Basin, Urinal, Bath, etc.), Providence, R. I.
 Victor Excelsior Brass Works, 128 White, N. Y.
 Wolff, L. Mfg. Co., 117 W Lake, Chicago, Ill.

Traps (Sewer, Tide & Back Water)

Barrett, Jas., Mfg. Co., 211 Franklin, Boston, Mass.

Traps (Steam)

Acton, Jno. ("Old Reliable"), 118 John, Brooklyn, N. Y.
 Albany Steam Trap Co. ("Blessing"), 60 Church, Albany, N. Y.
 Albert Pipe & Supply Co., Bay City, Mich.
 American Blower Co. ("Morehead"), 1400 Russell, Detroit, Mich.
 American District Steam Co. ("Star," "Holly," "Niagara" & "Empire"), 101 Elm, Lockport, N. Y.
 Anderson, V. D. Co. ("Anderson"), Cleveland, O.
ASHCROFT MFG. CO., THE ("McCracken" "Boyle"), 85, 87, 89 Liberty New York. Works: Bridgeport, Conn. (See adv. index, end of book)
 Atwood & Morrill ("XXth Century"), Salem, Mass.
 Baldwin Engineering Co., New York City
 Belfield, H. & Co., 435 N Broad, Phila., Pa.
 Berry Engineering Co., Chester, Pa.
 Bickel, Fred L. (Float & Thermostatic), Mascher & W Jefferson, Phila., Pa.
 Bonar, Jas. & Co., Frick bldg, Pittsburgh, Pa.
 Bond, Chas, 520 Arch, Phila., Pa.
 Boston Machine Works, Lynn, Mass.
 Boston Steam Specialty Co. (Ketcham), 168 Congress, Boston, Mass.
 Bourdon Co. ("Rex" "Twin Tube"), 7 Pearl, Boston, Mass.
 Buffalo Forge Co. (Automatic Pump & Receiver Type), Buffalo, N. Y., & 39 Cortlandt, New York
 Burrows Mfg. Co., York, Pa., & 73 Warren, New York
 Consolidated Engineering Co. ("Van Anken"), c Jackson & Canal, Chicago, Ill.
 Crookston Steam Specialty Co. ("Crookston"), Cincinnati, O.
 Crane Co. (Est. 1855), 519 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
 Dame & Townsend ("Morse"), 27 Cliff, New York City
 Davis, Geo. M. Regulator Co., 144 Milwaukee av, Chicago, Ill.
 Davis, Jno. Co. ("Eclipse"), 22d & Halsted, Chicago, Ill.
 D'Este, Julian Co. ("Curtis"), 24 Canal, Boston, Mass.
 Direct Separator Co. ("Powers"), Syracuse, N. Y.
 Dunham, C. A. Co. ("Dunham," Drain Valve & Steam Trap), Marshalltown, Ia.
 Durable Steam Trap Co. ("Cannon"), Youngstown, O.
 Eureka Iron Co., 16 N Canal, Chicago, Ill.
 Exeter Machine Works, Exeter, N. H.
 Eynon-Evans Mfg. Co. ("Smurthwaite"), 1519 Clearfield, Philadelphia, Pa., & 107 Liberty, New York
 Fairbanks Co. ("Pratts"), 186 Lafayette, New York
 Flinn, R. J. ("Flinn" Differential), W Roxbury Station, Mass.
 Ford, Thos. P. Co. (Compound), 407 Broome, New York
 Foskett & Bishop Co. ("Brown"), New Haven, Conn.
 Funke, Franz, 526 Commerce, Milwaukee, Wis.
 Garratt, W. T. & Co. ("McKellar"), San Francisco, Cal.
 General Fire Extinguisher Co., Providence, R. I.
 Glenn Mfg. Co. ("Nason & Standard"), St. Charles, Ill.
 Glover Bros. (John Glover), ("Jones"), Paul & Vandike, Frankford, Phila., Pa.
GOLDEN-ANDERSON VALVE SPECIALTY CO. ("Golden Tiling"), Fulton bldg, Pittsburgh, Pa. (See adv. index, end of book)
 Greenaway Co., 11 Woodward av, Detroit, Mich.



STYLE F.



Perfect Sewer Trap Manufacturing Co.

Owners of the LENHART PATENTS

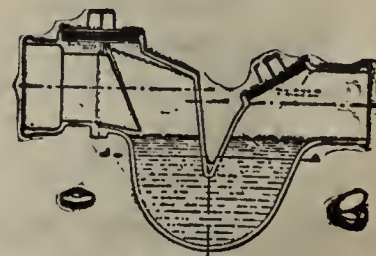
A PERFECT SEAL AGAINST BACKWATER AND SEWER GAS

The only perfect and permanent seal against water, sewer gas and foul odors entering dwelling through sewer connections.

Adopted by the School Board of Philadelphia and the Bureau of Buildings, Borough of Brooklyn.

Main Office, 61 BEEKMAN ST., Tel. 4319 Beekman

NEW YORK



STYLE G.

Griffing, A. A. Iron Co. ("Bundy," "Ilydrox"), 449 Communipaw av. Jersey City, N. J.
 Haines, Wm. S. Co. ("Heintz"), 136 S 4th Philadelphia, Pa.
 Hawes, Geo. & Sons, 23 Dyer, Providence, R. I.
 Hoffman Mfg. Co., Milwaukee, Wis.
 Houghton, E. F. & Co. ("Marek," also Railway Traps), 240 W Somerset, Phila., Pa.
 Hussey, McCann & Co. ("Peerless"), 87 Warren, New York
 Illinois Malleable Iron Co., Chicago, Ill.
 Johnston & Co. ("Smith"), Cincinnati, O.
 Kelly & Jones ("Nason" Pattern), Greensburg, Pa.
 Kieley & Mueller ("Staudard" and "Champion"), 7 W 13th, New York
 Kitts Mfg. Co., Oswego, N. Y.
 Klipfel Mfg. Co. ("K. & T."), 74 W Lake, Chicago, Ill.
 Koehler, F. D., New Brighton, N. Y.
 Lawler Water Feed & Damper Regulator Co. ("Lawler's" "Empire" & "Monitor," "Lawler's" Duplex & Return Trap), 473 W New York
 Lawson, Henry ("Hawes"), New York City
 Libby Valve & Packing Co. ("Century"), 147 Varick, New York
 Lindstrom, Jno. T., Allentown, Pa.
 Lippincott Steam Specialty & Supply Co. ("Lippincott"), Newark, N. J.
 Locke Regulator Co., Salem, Mass.
 Lonergan, J. E. & Co. ("Reliable"), 211 Race, Phila., Pa.
 McAuley Automatic Trap Co. ("McAuley" Automatic), Pittsburg, Pa.
 McCrea, Jas & Co. ("H. H."), 67 W Wash'n, Chicago
 McMann's, Thos. R. Sons ("Russell"), 58 Gold, New York
 McNab & Harlin Mfg. Co., 56 John, N. Y.
 Marsh, Jas. P. & Co., Chicago, Ill.
 Monash-Younger Co. ("Mo-Yo-Co.," "Fidelity" & "Monash"), 203 S Canal, Chicago, Ill.
 Monohan, Thomas ("Komo"), Port Richmond, N. Y.
 Morehead Mfg. Co., Detroit, Mich.
 Mott, J. L. Iron Works ("Tobey"), 118 5th av, New York
 Murray Automatic Boiler Feed Co., 892 Scotten av, Detroit, Mich.
 Nason Mfg. Co. ("Nason" & "Sliding"), 71 Beekman, N. Y.
NATIONAL BLOWER WORKS ("National"), Milwaukee, Wis. (See adv. index, end of book)
 National Dry Kiln Co. ("National"), Indianapolis, Ind.
 National Equipment Co. (Inc.) ("Brauch," Double Lever), 211 N 7th, St. Louis, Mo.
 National Steam Specialty Co., 230 E Wash'n, Chicago, Ill.
 National Supply Co., 1 St. Clair, Toledo, O.
 Neff, Geo. W. & Co. ("Vesuvius" Self-Cleaning), 42 Broadway, New York
 Nelson, Chas. ("Dinkel"), 439 E 10th, N. Y.
 Nichols, E. M. ("Hardy"), 639 Arch, Philadelphia, Pa.
 Pancoast, Henry B. & Co. ("Barris"), 243 S 3d, Philadelphia, Pa.
 Parker Mfg. Co. ("Standard" & "Upton"), Boston, Mass.
 Pearce, W. H. & Co. ("Crescent"), 269 Dearborn, Chicago
 Pratt & Cady Co., Hartford, Conn.
 Prims, J. C. Machinery Co. ("Taylor"), Battle Creek, Mich.
 Providence Steam Trap Co. ("Newton"), 16 Diamond, Providence, R. I.
 Reliable Engineering Co., Duluth, Minn.
 Reliance Gauge Column Co. ("Reliance"), Cleveland, O.
 Roberts, Geo. I. & Bro., 471 4th av, New York
 Rytzler, E. Co. (Automatic), 127 White, New York
 Ryan, E. J., Danville, Ill.
SCHAEFFER & BUNDENBERG MFG. Co. ("Acme," "Nason Pattern" & Expansion), Foxboro, Mass. (See adv. index & branch offices, end of book)
 Schotte Specialty Co. ("Combi" Recording), American Trust bldg, Chicago, Ill.
 Schoonmaker, A. G. Co., 143 Liberty, New York City
 Schutte & Koerting Co. ("Mueller-Schutte"), 1251 N 12th, Philadelphia, Pa.
 Standard Steam Specialty Co. ("Sirins"), 542 W B'way, New York
 Steam Appliance Co. ("Triumph" Steam Actuated), Milwaukee, Wis.
STRONG, CARLISLE & HAMMOND Co. (The "Squires"), Cleveland, O. (See adv. index, end of book)
 Startevant, B. F. Co., Hyde Park, Mass.
 Thermograde Valve Co. ("Thermograde" Auto Valve), Boston, Mass.
 Thorpe, Platt & Co. (Gelpel's), 97 Cedar, N. Y.
 Tompkins, D. A. Co. (Mfrs.), Charlotte, N. C.
 Vacuum Vapor Co. ("V. V.-Perfect" for Live or exhaust Steam), Moline, Ill.
 Valle & Kimes ("V. & K.," "Vesuvius" Self-Cleaning), Dayton, O.

Van Anken-Chlevauc Co. ("Clevauc"), Yonkers, N. Y.
 Walworth Mfg. Co., 132 Federal, Boston
 Watson & McDaniel Co. ("McDaniel," "Reliable," "Chapman," "Columbia"), 146 N 7th, Philadelphia, Pa.
 Watts Regulator Co., Lawrence, Mass.
 Western Tube Co., Kewanee, Ill.
WILLIAMS, D. T. VALVE CO. ("Cookson"), 904 Broadway, Cincinnati, Ohio. (See adv. index, end of book)
 Williams Gauge Co. ("Williams"), Pittsburg, Pa.
 Wolf, Fred. W. Co. ("Acme"), 141 Rees, Chicago, Ill.
 Wright Mfg. Co. ("Wright Emergency" & "Victor" Low Pressure), 55-59 W Woodbridge, Detroit, Mich.
 Youngstown Steam Trap Co. ("Youngstown"), Youngstown, Ohio

Traps (Target)

Hoyt Metal Co., 4th & Locust, St. Louis, Mo., & Perth Amboy, N. J.

Traps (Vacuum)

Newman Mfg. Co., 26 Cortlandt, New York

Traps (Waste)

Sure Seal Trap Co. (Inc.) ("Non-Syphon," 95 Pine, Providence, R. I.

*Travelers (Ferry)

DOBBIE FOUNDRY & MACHINE CO., Niagara Falls, N. Y. (See adv. index & branch offices, end of book)

Trays (Brass)

Knapp Mfg. Co. (Bar, Candy, etc.), 24 Frankfort, New York
 Sweeney, W. H. Mfg. Co. (All Styles), 66 Water st, Brooklyn, N. Y.
WORCESTER PRESSED STEEL CO. (Successors to Worcester Ferrule & Mfg. Co.), Worcester, Mass. (See adv. index, end of book)

Treadles (Foot Power)

Slotkin & Mayer (for Light Machinery, etc.), 210 Canal, New York

*Treads (Car Step)

AMERICAN MASON SAFETY TREAD Co., 702 Old South bldg, Boston, Mass. (See adv. index & branch offices, end of book)

Treads (Dog Power)

Dobson Mfg. Co., Rockford, Ill.
 Gowanda Agricultural Works, Gowanda, N. Y.
 McDermaid, J., Rockford, Ill.
 Lamb & Co., Freeport, Ill.

Treads (Floor)

Ansonia Electrical Co., Ansonia, Conn.

Treads (Safety)

AMERICAN MASON SAFETY TREAD Co., 702 Old South bldg, Boston, Mass. (See adv. index & branch offices, end of book)

Tree Guards

(See Wire Workers.)
 (Also Wire Fence & Gates.)
 (Also Iron Railings & Fences.)

Treenails

Hoskins, J. S., Lumber Co. ("Locust," for Ship Purposes), Baltimore, Md.

Trench Machines

(See Sewer Excavating Machines.)

Trestles (Painters' & Masons')

Moulton, C. W. & Co., Somerville, Mass.

Trestles (Shaft Hanging)

Portland Extension Ladder Co. ("Excelsior" Folding Extension Trestle or Scaffold Horse), 130 Orange, Newark, N. J.

*Trestles (Steel Frame)

SCAIFE, WM. B. & SONS CO., 221 1st av, Pittsburg, Pa. (See adv. index, end of book)

Triangles

Brown & Sharpe Mfg. Co. (Steel), Providence, R. I.
 Disston, Henry & Sons (Inc.) (Steel), Tacony, Phila., Pa., & 75 Wash'n, Chicago, Ill.
 Humason & Beckley Mfg. Co., New Britain, Conn.
 Kalamazoo Railway Supply Co. (Safety), Kalamazoo, Mich.
 Smith, E. G. Co. (German Silver), Columbia, Pa.

SOLTMANN, E. G.

(Wood with Transparent Edges; also Everything for the Architect, Engineer & Draughting Room), 125 E 42d, New York. (See adv. index, end of book)

Triers (Cheese)

American Cutlery Co., 193 Mather, Chicago, Ill.

Trimmers (Bolt Head)

BLISS, E. W. CO., 19 Adams, Brooklyn, New York. (See adv., index, end of book)
 National Machinery Co., Tiffin, Ohio.
 Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.

Trimmers (Grass)

Townsend, S. P. & Co., Orange, N. J.

Trimmers (Hedge)

American Axe & Tool Co., Glassport, Pa.

Trimmers (Lumber)

ALLIS-CHALMERS CO. Office, Milwaukee, Wis. (See adv. index & branch offices, end of book)
 American Sawmill Machinery Co. ("American"), 114 Liberty, New York, & Hackettstown, N. J.
 Baldwin, Tuthill & Bolton, Grand Rapids, Mich.
 Clark Bros. Co., Belmont, N. Y.
 Cook, R. A., Stevens Point, Wis.
 Curtis & Co. Mfg. Co., St. Louis, Mo.
 De Loach Mill & Mfg. Co., Atlanta, Ga.
 Diamond Iron Works ("Wilkinson," "Diamond" & "Harmon"), Minneapolis, Minn.
 Filer & Stowell Co., Home Office, Milwaukee, Wis.
 Garland, M. Co. (Two Saw), Bay City, Mich.
 Gordon Hollow Blast Grate Co. (The "Tower"), Greenville, Mich.
 Henderson, W. K. Iron Works & Supply Co., Shreveport, La.
 Howell, R. R. & Co., Minneapolis, Minn.
 Knight Mfg. Co., Canton, O.
LANE MFG. CO., Montpelier, Vt. (See adv. index, end of book)
 Link Belt Machinery Co., 39th & Stuart av, Chicago
 Murray, D. J. Mfg. Co., Wausau, Wis.
 Oliver Machinery Co. (the "Oliver"), Grand Rapids, Mich.
 Phoenix Mfg. Co., Eau Claire, Wis.
 Smith, Myers & Schrier Co., 621 W Front, Cincinnati, O.
 Southern Engine & Boiler Works, Jackson, Tenn.
 Standard Saw Mill Machinery Co., Erie, Pa.
 Stearns Mfg. Co., Erie, Pa.
 Union Iron Works, Bangor, Me.
 Wheland Machine Works, Chattanooga, Tenn.
 Wickes Bros., Saginaw, Mich.

Trimmers (Paper Hangers')

Webster & Perks Tool Co. ("Simplex"), Springfield, O.

Trimmers (Slate)

Ruggles Machine Co., Poultney, Vt.

Trimmers (Spoke)

Bonney Vise & Tool Works (Inc.), 3015 Chestnut, Phila., Pa.

Trimmers (Tree)

(See also Shears, Pruning)

Klein, Mathias & Son, 87 W Van Buren, Chicago
Oshkosh Tool Mfg. Co., Oshkosh, Wis.

Trimmers (Wall Paper)

Ridgeley Trimmer Co., Springfield, O.
Standard Trimmer Co., Springfield, O.

Trimmings (Car)

(See Car Trimmings.)

Trimmings (Fancy Box)

Hassall, John (Hinges, Catches, etc.), 171 Lafayette, New York

Trimmings (Furniture)

American Ring Co. (Metal Bedsteads), Waterbury, Conn.
Grand Rapids Brass Co. (Metal Escutcheons, Knobs, Pulls, Locks, Hinges, etc.), Grand Rapids, Mich.
Novelty Mfg. Co. (Metal), Waterbury, Conn.

***Tripods (Drill)**

INGERSOLL-RAND CO., The, 11
B'way, New York. (See adv. index & branch offices, end of book)

Tripoli

Cohutta Talc Co. (Miners & Refiners), Spring Place, Ga.
Doggett, Stanley (Mfrs'. Agt.), 101 Beekman, New York
National Tripoli Co. (Stone & Flour; Also Floor Polish), Columbus, O.

Triturators

Coldwell-Wilcox Co., Newburgh, N. Y.

Trolley Brooms

(See Brooms, Trolley or Track.)

Trolley Ears

Allen Fire Department Supply Co., Providence, R. I.
Columbia Machine Works & Malleable Iron Co., 169 Chestnut, Brooklyn, N. Y.
Creaghead Engineering Co., 313 Walnut, Cincinnati, O.
Electric Service Supply Co., 1024 Filbert, Phila., Pa.
Eureka Tempered Copper Works, North East, Pa.

Hutchins, A. E., 1183 12th, Detroit, Mich.
Ohio Brass Co., Mansfield, O.
Ohio Electric Specialty Mfg. (The Faulkner), Troy, Ohio
Western Electric Co., 259 S. Clinton, Chicago Ill., & 57 Bethune, New York

Trolley Harps or Forks

(See Trolley Line Materials.)

Trolley Line Materials

(See also Railway Supplies, Electric.)

Anderson, Albert & J. M. Mfg. Co. (Overhead), 289 A. S. Boston, Mass.
Bayonet Trolley Harp Co. (Detachable Trolley Harp & Butterfly Sleet Cutter), Springfield, O.
Billings & Spencer Co. (Drop Forged, etc.), Hartford, Conn.
Boston Electric Co., 29 Harrison av, Boston, Mass.
Central Union Brass Co. 11th & Mallanphy, St. Louis, Mo.
Columbia Machine Works & Malleable Iron Co., 269 Chestnut, Brooklyn, N. Y.
Creaghead Engineering Co., 313 Walnut, Cincinnati, O.

Electric Railway Equipment Co., 1938 W 8th, Cincinnati, O.

Electric Service Supplies Co., 1024 Filbert, Philadelphia, Pa.

Eureka Tempered Copper Works, North East, Pa.

GENERAL ELECTRIC CO., Schenectady, N. Y., & 44 Broad, New York.
(See adv. index & branch offices, end of book)

Johns. H. W., Manville Co., 100 William, New York

Keystone Drop Forge Works (Harps, etc.), Chester, Pa.

Kinsman Electric & Railway Supply Co., 55 Dey, New York

Lang, J. Electric Co., 176 E Indiana, Chicago, Ill.

McLean, H. E., 141 Federal, Boston, Mass.

Macallen Co., cor. Foundry & Division, Boston, Mass.

Morris, Elmer P. Co., 51 Dey, New York.

NUTTALL, R. D. CO. ("Union Trolley Harps"). Garrison pl. & Fayette, Pittsburg, Pa. (See adv. index, end of book)

Ohio Brass Co. (Overhead), Mansfield, O.

Post-Grover Electric Co., 314 W 4th, Cincinnati, Ohio

Recording Fare Register Co. (Multi-Ampere Trolley Harps & Other Specialties), New Haven, Conn.

Ridlon, Frank, Co., 200 Summer, Boston, Mass.

Star Brass Works, Kalamazoo, Mich.

Sterling-Meaker Co., 420 Ogden, Newark, N. J.

Stuart-Howland Co., 279 Devonshire, Boston, Mass.

Wallace Supply Co., 56 5th av., Chicago, & 26 Cortlandt, New York

Western Electric Co., 259 S Clinton, Chicago, Ill., & 463 West, New York

Western Electrical Supply Co., 7th & Clark av, St. Louis, Mo.

Trolley Pole Brackets

(See Brackets, Trolley Poles.)

Trolley Pole Catchers

(See Catchers, Trolley Pole.)

Trolley Poles

(See Poles, Iron & Steel Trolley.)
(Also Ties, Poles & Posts.)

Trolley Wheels

(See Wheels, Trolley.)

Trolley Wire Pickups

Electric Service Supplies Co., 1024 Filbert, Phila., Pa.

Trolleys & Trolley Tracks (Overhead)

BETHLEHEM FOUNDRY & MACHINE Co., Front, South Bethlehem, Pa. (See adv. index, end of book)

Box, Alfred & Co., 813 N Front, Phila., Pa.

BROWN HOISTING MACHINERY CO., St. Clair, N. E., Cleveland, O., & 26 Cortlandt, New York (See adv. index, end of book)

CASE MFG. CO. (I BEAM, St. Clair & Curtis avs., Columbus, Ohio. (See adv. index, end of book)

CHISHOLM & MOORE MFG. CO. (Geared & Plain Yoke Trolleys), Lake & Kirtland, Cleveland, O. (See adv. index, end of book)

Cleveland Car Co., West Park, O.

COBURN TROLLEY TRACK MFG. CO., Holyoke, Mass. (See adv. on following page)

COHOES IRON FOUNDRY & MACHINE Co., Cohoes, N. Y. (See adv. index, end of book)

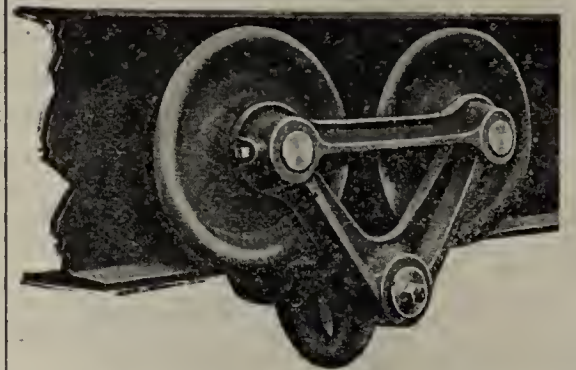
Curtis & Co., Mfg. Co. (Air Motor, Beam Trolleys, & Tunnison Beam Trolley Hoists, etc.), St. Louis, Mo.

Dake Engine Co. (Pneumatic & Steam), Grand Haven, Mich.

FREVERT MACHINERY CO., 18 Dey, New York. (See adv. index, end of book)

G. & W. Mfg. Co., 26 Cortlandt, New York.

GENERAL PNEUMATIC TOOL CO. (Electric & Pneumatic, Plain & Geared, 1-Beam), Montour Falls, N. Y. (See adv. below; branch offices, end of book)

**SHEPARD QUALITY TROLLEYS****The General Pneumatic Tool Co.**

General Office and Works, Montour Falls, N. Y.

New York, Singer Building

Philadelphia, Stephen Girard Building

Gregg Company (Ltd.), Newburgh, N. Y.
Harrington, Edw. Son & Co., 17th & Callowhill, Phila., Pa.

Holst Co., 20 S William, New York.

Irving Mfg. & Tool Co. (J. F. McCoy Co., Propt.), 159 Chambers, New York.

MCCABE HANGER MFG. CO. (Eye Beam), 425 W. 25th, New York. (See adv. index, end of book)

Maris Bros., 56th & Gray's Ferry rd., Phila., Pa.

MOORE, FRANKLIN CO., Winsted, Conn. (See adv. index, end of book)

North Alabama Engineering Co., New Decatur, Ala.

N. J. Foundry & Machine Co., 9 Murray, New York

NORTHERN ENGINEERING WORKS, 9 Chene, Detroit, Mich. See adv. index, end of book

Obenberger, Jno. Co. (Flat Bar & I Beam), Milwaukee, Wis.

Parker Holst & Machine Co., 971 N. Francisco av., Chicago, Ill.

Putnam & Co., 244 Water, N. Y.

Randall, R. T. & Co., 333 N 2d, Phila., Pa.

Reading Chain Block Works, Reading, Pa.

READING CRANE & HOIST WORKS, Reading, Pa. See adv. index, end of book

RICHARDS MFG. CO. ("Richards" Trolley Overhead Carriers), Aurora, Ill. (See adv. index, & branch offices, end of book)

Round, David & Son, Cleveland, O. (See adv. index, end of book)

SPEIDEL, J. G., cor. Buttonwood & Gordon, Reading, Pa. (See adv. index, end of book)

Stuebner, G. L., Long Island City, N. Y.

Treadwell, M. H. & Co., 90 West, New York; Works, Lebanon, Pa.

TUOHY BROS. CO., 95 Liberty, New York. (See adv. index, end of book)

WHITING FOUNDRY EQUIPMENT Co., Harvey, Ill. (See adv. index & branch offices, end of book)

WILCOX MFG. CO., Aurora, Ill. (See adv. index, end of book)

Yale & Towne Mfg. Co., 9 Murray, New York. Works: Stamford, Conn.

Troughs (Watering)

Weaver Mfg. Co. (Steel), New Oxford, Pa.

Trowels

Arcade Mfg. Co. (Steel Garden, etc.), Freeport, Ill.

Atkins, E. C. & Co. (Plastering, etc.), Home offices & factories, Indianapolis, Ind.

Avery Stamping Co. ("Never-Break" Garden), Cleveland, O.

Billings, Spencer Co., Hartford, Conn.

Browne & Dowd Mfg. Co. (Plastering), Meriden, Conn.

Clark, W. J. Co., (Garden, Brick, Plastering, etc.), Salem, O.

Disston, Henry & Sons (Inc.) (Garden, Brick, Plastering, etc.), Tacony, Phila., Pa., & 75 W. Wash'n, Chicago, Ill.
 Griffin Mfg. Co., Erie, Pa.
 Humphrey, H. W. (Garden, etc.), Unionville, Coun.
 Jackson Shovel & Tool Co. ("Gem," Garden, etc.), Montpelier, Ind.
 Johnson, Wm. (Hedberg Works), (Handy, Garden, Transplanting, Brick Plastering, Pointing, Corners, etc.), Newark, N. J.
 Kohler, F. E. & Co. (Garden, etc.), Canton, O.
 Landers, Frary & Clark (Garden), New Britain, Conn.
 Lothrop, H. H. & Co., Sharon, Mass.
 Marshalltown Trowel Co., Marshalltown, Ia.
 Maynard, C. A. ("C. A. Maynard" Garden, Brick), Northampton, Mass.
 National Novelty Corp'n, 826 B'way, New York
 National Saw Co. (Brick & Plastering), 15 River, Newark, N. J.
 New York Stamping Co. ("Garden Primrose"), N 11th & Berry, Brooklyn, N. Y.
 Peck, Stow & Wilcox Co., Southington, Conn.
 Rose, Wm. & Bros., Sharon Hill, Pa.
 Ross, A. M. & Co., Iilon, N. Y.
 Sayre, L. A. Co., Newark, N. J.
 Stortz, Jno. & Son (Brick, Plastering, Pointing, Putty, etc.), 210 Vine, Phila., Pa.
 Union Furnace Mfg. Co., Union Furnace, Pa.

Trowels (Butter)

AMERICAN TAP & DIE CO., Greenfield, Mass. (See adv. index, end of book)
 Landers, Frary & Clark (Inc.) (Also Butter Spades, etc.), New Britain, Conn.

Trowels (Molders')

(See Tools, Molders.)

Truck Bands (Rubber)

BOSTON BELTING CO., 260 Devonshire, Boston, Mass., & 100 Reade, N. Y. (See adv. index, and branch offices, end of book)
 Consolidated Rubber Co., Trenton, N. J.
 Continental Rubber Works, Erie, Pa.

Diamond Rubber Co., Akron, Ohio
 Empire Rubber Mfg. Co., Trenton, N. J.
 Goodrich, B. F. Co., Akron, O.
 Hamilton Rubber Mfg. Co., Trenton, N. J., & 60 Reade, N. Y.
 Home Rubber Co., Trenton, N. J.
 Manhattan Rubber Co., 126 Duane, N. Y., & 96 Lake, Chicago, Ill.
 Mechanical Rubber Co., 91 Chambers, New York
 Morgan & Wright (Inc.), 226 Jefferson av., Detroit, Mich.
 N. J. Car Spring & Rubber Co., Jersey City, N. J.
 New York Belting & Packing Co. (Ltd.), 91 Chambers, N. Y.
 Republic Rubber Co., Youngstown, O.
 Spiuney-Wise Co., Lynn, Mass.
 United & Globe Rubber Mfg. Co., Trenton, N. J.
 Whitehead Bros. Rubber Co., Trenton, N. J.

*Truck Haulers (Electric)

MEAD-MORRISON MFG. CO. (Use on docks for hauling cargo from vessels), Cambridge (Boston), Mass., & 11 B'way, New York. (See adv. index & branch offices, end of book)

Trucks (Aerial)

American-La France Fire Engine Co., 149 B'way, New York, & Elmira, N. Y.
 Pneumatic Aerial Fire Appliance Co., New Bedford, Mass.
 Seagrave Co., Columbus, Ohio

Trucks (Assembling)

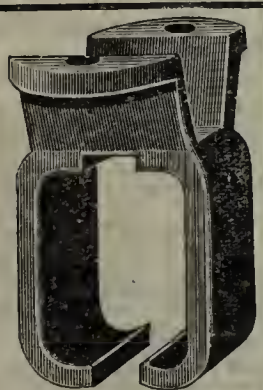
Towsley, J. T. Mfg. Co., Cincinnati, O.

Trucks (Bag Holder)

New Winona Mfg. Co. ("Gilbert"), Winona, Minn.

Trucks (Bag & Barrel)

Adams Co. (Iron), Dubuque, Ia.
 Atlas Car & Mfg. Co., Cleveland, Ohio
 Barnard & Leas Mfg. Co., Moline, Ill.
 Bancroft & Co., 5th & Chestnut, Phila., Pa.
 Bateman Mfg. Co., Grenloch, N. J.
 Belcher & Taylor Agricultural Tool Co., Chicopee Falls, Mass.
 Boston & Lockport Block Co., 160 Commercial, Boston, Mass.
 Buch's, A. Sons Co., Elizabethtown, N. J.
 Buffalo Scales Co., Buffalo, N. Y.
 Case Mfg. Co., Columbus, Ohio
 Chase Foundry & Mfg. Co., Columbus, Ohio
 Chicago Scale Co., 292 Jackson boul, Chicago, Ill.
 Clark, Geo. P. Co., Windsor Locks, Conn.
 Comstock, Geo. S. (Bag), Mechanicsburg, Pa.
 Enterprise Mfg. Co., 3d, cor. Dauphin, Phila., Pa.
 Fairbanks Co., Lafayette, cor. Broome, New York
 Farquhar, A. B. Co. (Ltd), York, Pa.
 Hanover Plow Handle Co., Hanover, Pa.
 Howe Scale Co., Rutland, Vt.
 Kilbourne & Jacobs Mfg. Co., Columbus, O.
 Knowles Scale Works (Ash Barrels Can), Lowell, Mass.
 Lansing Wheelbarrow Co., Lansing, Mich.
 Lehr Agricultural Co., Fremont, O.
LYON METALLIC MFG. CO., Aurora, Ill. (See adv. index, end of book)
 McKinney Mfg. Co., Allegheny, Pa.
 Messinger Mfg. Co., Tatamy, Pa.
 Nordyke & Marmon Co., Indianapolis, Ind.
 Nutting Truck Co. (2, 3, 4 & 6 Wheeled), Earl, Minn.
 Phoenix Hardware Mfg. Co. ("Barrel only"), Homer, N. Y.
 Richmond City Mill Works, Richmond, Ind.
 Riehle Bros. Testing Machine Co., Phila., Pa.
 Sprout, Waldron & Co. (Bag), Muncy, Pa.
STANDARD SCALE & SUPPLY CO., 243 Water, Pittsburg, Pa. (See adv. index & branch offices, end of book)
 Syracuse Chilled Plow Co., Syracuse, N. Y.
 Tatum, Samuel C. Co., Cincinnati, O.
 Tucker & Dorsey Mfg. Co., Indianapolis, Ind.
WARSAW ELEVATOR CO., Warsaw, N. Y. (See adv. index & branch offices, end of book)
 Whitehurst, E. W. Co., Norfolk, Va.
 Wrightsville Hardware Co. (Bag), Wrightsville, Pa.
 Zering, H. Mfg. Co., Cincinnati, O.



**SAVE
TIME**



ABSOLUTE SAFETY INSURED

BY USING OUR OVERHEAD CARRYING
TRACK.



SEND FOR No. 29 CATALOGUE

COBURN TROLLEY TRACK MFG. CO.

HOLYOKE, MASS.



**SAVE
MONEY**



Trucks (Baggage)

Ames Plow Co., Boston, Mass.
 Boston & Lockport Block Co., 160 Commercial, Boston, Mass.
 Buda Foundry & Mfg. Co., Harvey, Ill., & Railway Exchange bldg., Chicago, Ill.
 Buffalo Scale Co., Buffalo, N. Y.
 Chicago Scale Co., 292 Jackson boul., Chicago
 Chase Foundry & Mfg. Co., Columbus, Ohio
 Clark, Geo. P. Co., Windsor Locks, Conn.
 Fairbanks Co., Lafayette, cor. Broome, New York
 Farquhar, A. B. Co., York, Pa.
 Howe Scale Co., Rutland, Vt.
 Kalamazoo Railway Supply Co. (Also Railroad Warehouse), Kalamazoo, Mich.
 Lansing Wheelbarrow Co., Lansing, Mich.
 Nutting Truck Co., Faribault, Minn.
 Syracuse Chilled Plow Co., Syracuse, N. Y.
 Phillips, Doup & Co., 56 Pearl, Brooklyn, N. Y.
STANDARD SCALE & SUPPLY CO., 243 Water, Pittsburg, Pa. (See adv. index & branch offices, end of book)
 Vicksburg Mfg. Co., Vicksburg, Mich.
WARSAW ELEVATOR CO., Warsaw, N. Y., & Erie Co. Bk. bldg., Buffalo, N. Y. (See adv. index & branch offices, end of book)
 Whitman Agricultural Co., 69 S B'way, St. Louis, Mo.
 Zering, H. Mfg. Co., Cincinnati, O.

Trucks (Basket)

Bancroft & Co., 5th & Chestnut, Phila., Pa.
 Fairbanks Co., 416 Broome, New York
 Kilbourne & Jacobs Mfg. Co., Columbus, Ohio
 Nutting Truck Co., Faribault, Minn.
WARSAW ELEVATOR CO., Warsaw, N. Y. (See adv. index & branch offices, end of book)
 Whitehurst, R. W. & Co., Norfolk, Va.
 Zering, H. Mfg. Co., Cincinnati, O.

Trucks (Binder & Header)

Adriance, Platt & Co. (Binder), Poughkeepsie, N. Y.
 Burg Wagon Co. (Header), Burlington, Ia.
 Fish Bros. Mfg. Co. (Header), Clinton, Ia.
 Johnson Harvester Co. (Binder), Batavia, N. Y.
 Moline Wagon Co. (Header), Moline, Ill.
 Warder, Bushnell & Glessner Co. (Binder), Springfield, O.
 Winona Wagon Co. (Header), Winona, Minn.

Trucks (Book)

Kilbourne & Jacobs Mfg. Co., Columbus, O.
 Zering, H. Mfg. Co., Cincinnati, O.

Trucks (Bottlers')

Chase Foundry & Mfg. Co., Columbus, O.
 Clark, Geo. P. Co., Windsor Locks, Conn.
 Kilbourne & Jacobs Mfg. Co., Columbus, O.

Trucks (Box)

Bancroft & Co., 5th & Chestnut, Phila., Pa.
 Boston & Lockport Block Co., 160 Commercial, Boston, Mass.
 Chase Foundry & Mfg. Co., Columbus, Ohio
CITY FORGE & IRON WORKS ("Gem" & Steel Timber or Contractors Dolly made of Steel & Cast Iron Roller Bearings with or without Rubber Tires), Dayton, O. (See adv. index, end of book)
 Clark, Geo. P. Co., Windsor Locks, Conn.
 Fairbanks Co., 186 Lafayette, New York
 Farquhar, A. B. Co. (Ltd.), York, Pa.
 Howe Scale Co., Rutland, Vt.
 Kilbourne & Jacobs Mfg. Co., Columbus, O.
 Lansing Wheelbarrow Co., Lansing, Mich.
LYON METALLIC MFG. CO. (Steel), Aurora, Ill. (See adv. index, end of book)
 Nutting Truck Co., Faribault, Minn.
STANDARD SCALE & SUPPLY CO., 243 Water, Pittsburg, Pa. (See adv. index & branch offices, end of book)
WARSAW ELEVATOR CO., Warsaw, New York. (See adv. index & branch offices, end of book)
 Zering, H. Mfg. Co., Cincinnati, O.

Trucks (Brick)

American Clay Machinery Co., Bucyrus, O., & Willoughby, O.
 Arnold-Crager Co., New London, O.
 Atlas Car & Mfg. Co., Cleveland, O.
 Bancroft & Co., 5th & Chestnut, Phila., Pa.
 Boston & Lockport Block Co., Boston, Mass.

Davis-Price Foundry & Machine Co., New Cumberland, W. Va.
 Fairbanks Co., 416 Broome, New York
 Fernholtz Brick Machinery Co., Boyle & Old Manchester avs., St. Louis
 Gregg Company (Ltd.), Newburgh, N. Y.
 Horton Mfg. Co., Painesville, O.
 Kilbourne & Jacobs Mfg. Co., Columbus, O.
 Martin, Henry Brick Machine Mfg. Co., Lancaster, Pa.
 Michigan Brick & Tile Machine Co., Morenci, Mich.
 Northern Engineering Works, Detroit, Mich.
 Potts, C. & A. & Co., Indianapolis, Ind.
 Raymond, C. W. Co., Dayton, O.
 Scott's Patent Brick Car Co., Knoxville, Tenn.
 Steele, J. C. & Son, Statesville, N. C.
 Warner, D. M. ("Warner" Tilting), Sparta, Mich.
 Wellington Machine Co., Wellington, O.
 Whitman Agricultural Co., 6900 S B'way, St. Louis, Mo.

Trucks (Canning Factory)

Kilbourne & Jacobs Mfg. Co., Columbus, O.

Trucks (Car, Steam & Electric)

American Car Co. (Steam & Electric), St. Louis, Mo.
 American Locomotive Co., 111 B'way, New York
 American Steel Foundries (Steam), Main office, 42 B'way, New York, & Commercial National Bank bldg., Chicago, Ill.
Baldwin Locomotive Works (Steam & Electric), 500 N Broad, Phila., Pa.
 Baltimore Car-Wheel Co. (Electric Only), Fulton Station, Baltimore, Md.
 Barney & Smith Car Co. (Steam & Electric), Dayton, O.
 Brill, J. G. Co. (Steam & Electric), 62d & Woodland av., Phila., Pa.
 Cambric Steel Co., Arcade bldg., Phila., Pa.
 Commonwealth Steel Co. (Cast Steel, Four or Six-Wheel Truck Frame in One Piece), Commerce bldg., St. Louis, Mo.; Works, Granite City, Ill.
 Frost Railway Supply Co., Detroit, Mich.
 Hammond, J. & Co. (Car, Electric Railway), San Francisco, Cal.
 Kindl Car Truck Co. (Steam Car Trucks Only), Merchants Loan & Trust bldg., Chicago, Ill.
 Laclede Car Co. (Steam & Street), 4500 N 2d, St. Louis, Mo.
 Laconia Car Co. Works (Electric), 100 Boylston, Boston, Mass.; Works Laconia, N. H.
 Lorain Steel Co. (Electric only), Johnstown, Pa.
 McGuire-Cummings Mfg. Co. (Electric, etc.), 122 N Sangamon, Chicago, Ill.
 Pressed Steel Car Co. (Pressed Steel, Freight & Engine Tender, etc.), Pittsburg, Pa.
RUSSELL WHEEL & FOUNDRY CO., Detroit, Mich. (See adv. index, end of book)
 Sheffield Car Co. (Electric Motor), Three Rivers, Mich.
 St. Louis Car Co. (Steam & Electric), 8000 N B'way, St. Louis, Mo.
 Standard Motor Truck Co. (Solid Forged, without Welds), Pittsburg, Pa.
 Standard Steel Car Co. (Steel Frames & Steel Underframes for Wooden Cars), Frick bldg., Pittsburg, Pa.
 Stephenson, Jno. Co. (Electric & Street), Elizabeth, N. J.
 Sterlingworth Railway Supply Co. (Rolled Steel, for Steam Cars), North American bldg., Phila., Pa. Works, Easton, Pa.
 Taylor Electric Truck Co. (Electric), Troy, N. Y.
 Wason Mfg. Co. (Steam & Electric), Springfield, Mass.

*Trucks (Concrete Mixer)

ELECTRIC WHEEL CO. (Electric), Quincy, Ill. (See adv. on following page)

*Trucks (Core Oven)

LYON METALLIC MFG. CO. (Steel), Aurora, Ill. (See adv. index, end of book)

*Trucks (Creamery)

LYON METALLIC MFG. CO., Aurora, Ill. (See adv. index, end of book)

Trucks (Dry Kiln)

American Blower Co., 1400 Russell, Detroit, Mich.
ARCHER IRON WORKS CO., 32 La Salle, Chicago, Ill. (See adv. index, end of book)
 Atlas Car & Mfg. Co., Cleveland, Ohio.
 Bancroft & Co., 5th and Chestnut, Phila., Pa.
 Fairbanks Co., 416 Broome, New York.
 Glascock Stove & Foundry Co., Greensboro, N. C.
 Gregg Company (Ltd.), Newburgh, N. Y.
 Pacific Iron & Steel Works (Roller Bearing Steel), Fremont, Seattle, Wash.
 Peacock's Iron Works, Salem, Ala.
 Sturtevant, B. F. Co., Hyde Park, Mass.
 Union Iron Works Co., Salem, Ala.
 Wickes Bros., Saginaw, Mich.
 Wright Wire Co., Worcester, Mass.

Trucks (Dye House)

Clark, Geo. P., Co., Windsor Locks, Conn.
 Kilbourne & Jacobs Mfg. Co., Columbus, O.
 Zering, H., Mfg. Co., Cincinnati, O.

*Trucks (Fibre)

SPAULDING, J. & SONS CO., North Rochester, N. H. (See adv. index, end of book)

Trucks (Foundry)

Atlas Car & Mfg. Co., Cleveland, Ohio.
 Bancroft & Co., 5th & Chestnut, Phila., Pa.
 Boston & Lockport Block Co., 160 Commercial, Boston, Mass.
 Buda Foundry & Mfg. Co., Harvey, Ill., & Railway Exchange bldg., Chicago, Ill.
 Byram & Co., 439 Guion, Detroit, Mich.
 Chase Foundry & Mfg. Co., Columbus, Ohio.
 Gregg Company (Ltd.), Newburgh, N. Y.
 Jones & Laughlin Steel Co., Pittsburg, Pa.
 Kilbourne & Jacobs Mfg. Co., Columbus, O.
KOPPEL, ARTHUR CO., 68 Broad, New York. (See adv. index & branch offices, end of book)
 Lansing Wheelbarrow Co., Lansing, Mich.
LYON METALLIC MFG. CO. (Steel), Aurora, Ill. (See adv. index, end of book)
NORTHERN ENGINEERING WORKS, Detroit, Mich. (See adv. index, end of book)
RUSSELL WHEEL & FOUNDRY CO., Detroit, Mich. (See adv. index, end of book)
 Sheffield Car Co., Three Rivers, Mich.
SMITH, J. D. FOUNDRY SUPPLY CO., Cleveland, O. (See adv. index, end of book)
STANDARD SCALE & SUPPLY CO., 243 Water, Pittsburg, Pa. (See adv. index, and branch offices, end of book)
WARSAW ELEVATOR CO., Warsaw, N. Y., & Erie Co. Bank bldg., Buffalo, N. Y. (See adv. index & branch offices, end of book)
WIENER ERNST CO., 68 Broad, New York. (See adv. index, end of book)
 Weiner Machine Works Co., Lebanon, Pa.
 Whitehurst, R. W. & Co., Norfolk, Va.
WHITING FOUNDRY EQUIPMENT Co., Harvey, Ill. (See adv. index & branch offices, end of book)

Trucks (Gasoline Engine)

ELECTRIC WHEEL CO. (Electric), Quincy, Ill. (See adv. on following page)
 Farmers' Handy Wagon Co., Saginaw, Mich.

Trucks (Hook & Ladder)

American-La France Fire Engine Co. (Extension, etc.), 149 B'way, New York, & Elmira, N. Y.
 Cooney, P. J. Mfg. Co., 900 Cass av., St. Louis, Mo.
 Fire Extinguisher Mfg. Co., 325 S. Desplaines, Chicago, Ill.
 Perkins, C. U. Co., Lawrence, Mass.
 Portland Ladder Co., 132 Orange, N. J.
 Reading Fire Apparatus Works, Reading, Pa.
 Seagrave Co., Columbus, O.
 Stewart, A. F. & S. C., Rochester, N. Y.

When writing to firms listed in this book please mention HENDRICKS' COMMERCIAL REGISTER

Trucks (Ingot)

Gregg Company (Ltd.), Newburgh, N. Y.
Jones & Laughlin Steel Co., Pittsburg, Pa.
NORTHERN ENGINEERING WORKS.
Detroit, Mich. (See adv. index, end of book)
Weimer Machine Works Co., Lebanon, Pa.
WHITING FOUNDRY EQUIPMENT
Co., Harvey, Ill. (See adv. index & branch offices, end of book)

Trucks (Logging & Lumber)

American Sawmill Machinery Co. (Lumber),
114 Liberty, New York. Works, Hacketts-
town, N. J.
ARCHER IRON WORKS CO., 32 La
Salle, Chicago, Ill. (See adv. index, end of book)

Atkins, E. C. & Co., Indianapolis, Ind.
Atlas Car & Mfg. Co., Cleveland, Ohio
Bain Wagon Co., Kenosha, Wis.
Bancroft & Co., 5th & Chestnut, Phila., Pa.
Boston & Lockport Block Co., Boston, Mass.
Buffalo Forge Co., 490 B'way, Buffalo, N. Y.
Chase Foundry & Mfg. Co., Columbus, O.
Chickasaw Iron Works, 98 2d, Memphis, Tenn.
City Forge & Iron Works, Dayton, Ohio
Clark, Geo. P. Co., Windsor Locks, Conn.
Diamond Iron Works, Minneapolis, Minn.
ELECTRIC WHEEL CO. (Electric),
Quincy, Ill. (See adv. below)
Farmers Handy Wagon Co., Saginaw, Mich.
Fish Bros. Wagon Co., Racine, Wis.
Glascok Stove & Foundry Co., Greensboro,
N. C.

Fairbanks Co., 46 Broome, New York
Gregg Company (Ltd.), Newburgh, N. Y.
Huntsville Foundry & Machine Works (Nolan &
Jones, Propr.), Huntsville, Ala.
International Harvester Co. of America, 7
Monroe, Chicago, Ill., & Auburn, N. Y.
Kilbourne & Jacobs Mfg. Co., Columbus, O.
Knight Mfg. Co., Canton, Pa.
KOPPEL, ARTHUR CO., 68 Broad, New
York. (See adv. index & branch offices, end of book)

Kramer Wagon Co., Oil City, Pa.
LANE MFG. CO., Montpelier, Vt. (See
adv. index, end of book)
Luedinghaus-Espenschied Wagon Co., 1713 N
B'way, St. Louis, Mo.
Michigan Wheelbarrow & Truch Co., Saginaw,
Mich.
Mount Vernon Car Mfg. Co., Mount Vernon, Ill.
National Dry Kiln Co. (Steel Rolling Bearing
Stave Bolt, Heading & Stave Trucks), In-
dianapolis, Ind.

North Alabama Engineering Co., New Decatur,
Ala.
Parker Hoist & Machine Co., 971 N Francisco
av, Chicago, Ill.

Peacock's Iron Works, Selma, Ala.
RUSSEL WHEEL & FOUNDRY CO.,
Detroit, Mich. (See adv. index, end of book)
Sheffield Car Co., Three Rivers, Mich.
Southern Engine & Boiler Works (Inc.), Jack-
son, Tenn.

Standard Saw Mill Machinery Co., Erie, Pa.
Strait, H. N., Kansas City, Mo.
Sturtevant, B. F. Co., 34 Oliver, Boston, Mass.
Towsley, John T. Mfg. Co., Evans n of Gest,
Cincinnati, O.

WIENER, ERNST CO., 68 Broad, New
York. (See adv. index, end of book)
Zering, H. Mfg. Co. (Lumber), Cincinnati, O.

***Trucks (Magnet)**

LYON METALLIC MFG. CO. (Steel),
Aurora, Ill. (See adv. index, end of book)

***Trucks (Nail Keg)**

LYON METALLIC MFG. CO. (Steel),
Aurora, Ill. (See adv. index, end of book)

Trucks (Packers')

Kilbourne & Jacobs Mfg. Co. (Steel or Wood),
Columbus, O.
LYON METALLIC MFG. CO. (Steel),
Aurora, Ill. (See adv. index, end of book)
STANDARD SCALE & SUPPLY CO.,
243 Water, Pittsburg, Pa. (See adv. index
& branch offices, end of book)
Zering, H. Mfg. Co., Cincinnati, O.

Trucks (Pipe)

ARCHER IRON WORKS CO., 32 La
Salle, Chicago, Ill. (See adv. index, end of book)
Fairbanks Co., 186 Lafayette, New York
Kilbourne & Jacobs Mfg. Co., Columbus, O.
KOPPEL, ARTHUR CO., 68 Broad,
New York. (See adv. index & branch of-
fices, end of book)
WARSAW ELEVATOR CO., Warsaw,
N. Y. (See adv. index & branch offices, end of book)
WIENER, ERNST CO., 68 Broad, New
York. (See adv. index, end of book)

Trucks (Plate Glass)

Kilbourne & Jacobs Mfg. Co., Columbus, O.
Zering, H. Mfg. Co., Cincinnati, O.

***Trucks (Printers' Form)**

LYON METALLIC MFG. CO. Steel &
Roller), Aurora, Ill. (See adv. index, end of book)

Trucks (Roll Paper)

Bancroft & Co., 5th & Chestnut, Phila., Pa.
Boston & Lockport Lock Co., Boston, Mass.
Clark, Geo. P. Co., Windsor Locks, Conn.
Fairbanks Co., 416 Broome, New York
Kilbourne & Jacobs Mfg. Co., Columbus, O.
Northern Engineering Works, Detroit, Mich.
Zering, H. Mfg. Co., Cincinnati, O.

Trucks (Rolling Mill)

(See also Trucks, Foundry)

Boston & Lockport Block Co., 160 Commercial,
Boston, Mass.
Fairbanks Co., 186 Lafayette, New York
Gregg Company (Ltd.), Newburgh, N. Y.
Hackensmith Wheel & Mine Car Co., Penn Sta-
tion, Pa.
Jones & Laughlin Steel Co. (Ltd.), Pittsburg,
Pa.

Kilbourne & Jacobs Mfg. Co., Columbus, O.
KOPPEL, ARTHUR CO., 68 Broad,
New York. (See adv. index & branch of-
fices, end of book)

Lansing Wheelbarrow Co., Lansing, Mich.
NORTHERN ENGINEERING WORKS,
Detroit, Mich. (See adv. index, end of book)

Spicer Mfg. Co., New Philadelphia, O.
Weimer Machine Works Co., Lebanon, Pa.
WIENER ERNST CO., 68 Broad, New
York. (See adv. index, end of book)
WHITING FOUNDRY EQUIPMENT
Co., Harvey, Ill. (See adv. index & branch
offices, end of book)
Zering, H. Mfg. Co. (Bar Iron, etc.), Cincin-
nati, O.

Trucks (Slag)

Power & Mining Machinery Co. (Cast or Steel
plate Bow), 52 William, New York, Works,
Cudahy, Minn.
Traylor Engineering Co. (Crucible Steel), 144
Liberty, New York

***Trucks (Slate Quarry)**

FLORY, S. MFG. CO., Bangor, Pa.
(See adv. index, end of book)

Trucks (Steel, Gasoline Engine)

Battendorf Axle Co., Davenport, Ia.
ELECTRIC WHEEL CO. ("Electric"),
Quincy, Ill. (See adv. below)

***Trucks (Step Ladder)**

LYON METALLIC MFG. CO. (Steel),
Aurora, Ill. (See adv. index, end of book)

Trucks (Store, Warehouse & Factory)

AKRON CULTIVATOR CO., Akron, O.
(See adv. index, end of book)

Arcade Mfg. Co., Freeport, Ill.
Archer Mfg. Co., Freeport, Ill.
ARCHER IRON WORKS CO., 32 La
Salle, Chicago, Ill. (See adv. index, end of book)

Armstrong Truck Co. (Ball Bearing), 411 Cher-
ry, Phila., Pa.

Atlas Car & Mfg. Co., Cleveland, O.
Bancroft & Co., 5th & Chestnut, Phila., Pa.
Belcher & Taylor Agl. Tool Co., Chicopee Falls,
Mass.

Boston & Lockport Block Co., 160 Commercial,
Boston, Mass.
Buffalo Scale Co., Scott, Miss., & Illinois, Buffa-
Chaffee Bros. Co., Oxford, Mass. lo, N. Y.
Chase Foundry & Mfg. Co., Columbus, O.
City Forge & Iron Works, Dayton, Ohio
Chicago Scale Co., 292 W Jackson boul, Chi-
cago, Ill.

Clark, Geo. P. Co., Windsor Locks, Conn.
Columbian Mail Crane Co. ("Columbian" Steel),
898 Factory, Columbus, O.

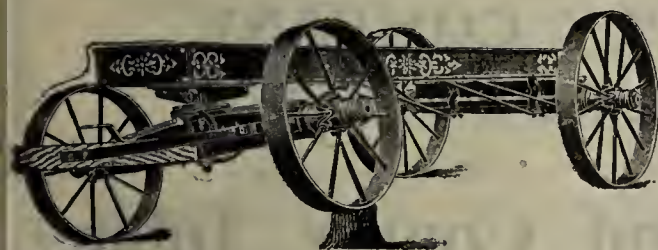
Day, J. H. & Co., Cincinnati, O.
Defiance Box Co., Defiance, Ohio
Dietz, Fred Co., 1102 Madison av, Indianapo-
lis, Ind.

Fairbanks Co., Lafayette, cor. Broome, New
York

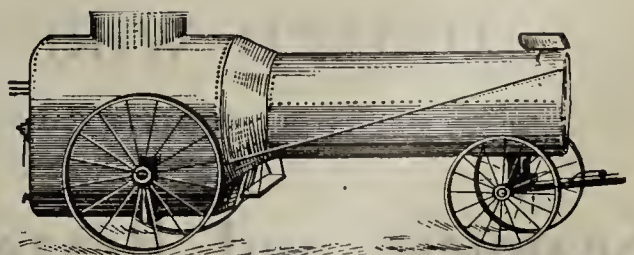
FAIRBANKS, MORSE & CO., Frank-
lin & Monroe, Chicago, Ill. (See adv. in-
dex & branch offices, end of book)

Farquhar, A. B. Co. (Ltd.), York, Pa.
Glascok Stove & Foundry Co., Greensboro,
N. C.

GRAMMES, L. F. & SONS, Allentown,
Pa. (See adv. index, end of book)
Grand Rapids Hand Screw Co., Grand Rapids,
Mich.



**BUILDERS
OF
WOOD and STEEL
TRUCKS
FOR**



Mounting Engines of all kinds, Concrete Mixers, Portable Steam Boilers and
Machinery of all kinds. Also complete line of Farm and Handy Wagons, Con-
tractors' Dump Carts, Timber Carts and Heavy Freighting Cars for team or
traction power. Write for Catalog; line you are interested in.

ELECTRIC WHEEL CO., Station D, QUINCY, ILL., U.S.A.

Hanover Plow Handle Co., Hanover, Pa.
 Howe Scale Co., Rutland, Vt.; 341 B'way, New York
 Kilbourne & Jacobs Mfg. Co., Columbus, O.
 Lansing Wheelbarrow Co., Lansing, Mich.
 Leatheroid Mfg. Co. (Leatheroid), Kennebunk, Me., & 108 Lincoln, Boston, Mass.
LYON METALLIC MFG. CO. (Steel), Aurora, Ill. (See adv. index, end of book)
 McKinney Mfg. Co., Allegheny, Pa.
 Messinger Mfg. Co., Tatamy, Pa.
 Michigan Mfg. & Lumber Co., Holly, Mich.
 Michigan Wheelbarrow & Truck Co., Saginaw, Mich.
 Murray, D. J. Mfg. Co., Wausau, Wis.
 Nutting Truck Co., Faribault, Minn.
 Ohio Ceramic Engineering Co. ("Steel Frame"), Cleveland, O.
 Peck, C. A. Hardware & Mfg. Co. (Automobile), Berlin, Wis.
 Puffer-Hubbard Mfg. Co., Minneapolis, Minn.
 Putnam & Co., 244 Water, New York
 Sheffield Car Co., Three Rivers, Mich.
 Schriver, O. P. & Co. ("I. X. L."), 208 Elm, Cincinnati, O.
 Sidney Steel Scraper Co., Sidney, O.
 Spicer Mfg. Co., New Philadelphia, O.
STANDARD SCALE & SUPPLY CO., 243 Water, Pittsburg, Pa. (See adv. index & branch offices, end of book)
 Syracuse Chilled Plow Co., Syracuse, N. Y.
 Towsley, John T. Mfg. Co., Evans, n. of Gest, Cincinnati, O.
 Tucker & Dorsey Mfg. Co., Indianapolis, Ind.
WARSAW ELEVATOR CO., Warsaw, N. Y. (See adv. index & branch offices, end of book)
 Westbrooks, J. B. Foundry & Machine Co., Danville, Va.
 Whitehurst, R. W. Co., Norfolk, Va.
 Whitman Agricultural Co., 6900 S B'way, St. Louis, Mo.
 Zering, H. Mfg. Co., 218 Charles, Cincinnati, O.

Trucks (Stove)

Arcade Mfg. Co. ("Baltzy" Steel, "Standard" Adjustable & "Perfect" Steel), Freeport, Ill.
 Bancroft & Co., 5th & Chestnut, Phila., Pa.
 Barnes Mfg. Co., Mansfield, Ohio
 Boston & Lockport Block Co., Boston, Mass.
 Chase Foundry & Mfg. Co., Columbus, Ohio
 Clark, George P. Co., Windsor Locks, Conn.
 Fairbanks Co., 416 Broome, N. Y.
 Howes, S. M. Co., 40 Union, Boston, Mass.
 Kilbourne & Jacobs Mfg. Co., Columbus, O.
 Kramer Bros. Foundry Co., Dayton, Ohio.
 Mersick, C. S. & Co., 286 State, New Haven, Conn.
 Schriver, O. P. & Co. (I. X. L.), 208 Elm, Cincinnati, O.
 Tucker & Dorsey Mfg. Co. ("Daisy"), Indianapolis, Ind.
 Whitehurst, R. W. Co., Norfolk, Va.

*Trucks (Tote Box)

LYON METALLIC MFG. CO. (Steel), Aurora, Ill. (See adv. index, end of book)

*Trucks (Tramway)

ARCHER IRON WORKS CO., 32 La Salle, Chicago, Ill. (See adv. index, end of book)

Trucks (Triangular)

Kilbourne & Jacobs Mfg. Co., Columbus, O.
OSBORN MFG. CO., 5401 Hamilton av, N E, Cleveland, O. (See adv. index, end of book)

Trucks (Varnish Kettle)

Turl's. Jno. Sons (Inc.), 26 Cortlandt, New York. Works, Newburg, N. Y.

Trucks (Wall Paper)

Kilbourne & Jacobs Mfg. Co., Columbus, O.
 Zering, H. Mfg. Co., Cincinnati, O.

*Trucks (Waste)

LYON METALLIC MFG. CO. (Steel), Aurora, Ill. (See adv. index, end of book)

Trucks (Wire Mill)

Atlas Bolt & Screw Co., Cleveland, O.
 Bancroft & Co., 5th & Chestnut, Phila., Pa.
 Boston & Lockport Block Co., Boston, Mass.
 Fairbanks Co., Lafayette cor Broome, New York
 Morgan Construction Co., Worcester, Mass.
 Turner, Vaughn & Taylor Co., Cuyahoga Falls, O.
WRIGHT WIRE CO. (Iron Dry House), Worcester, Mass.

Trunk & Bag Trimmings

(See also Hardware Mfgs., Trunk & Bag.)
 Jenkinson, R. C. & Co., Newark, N. J.
 Kelton-Bruce Mfg. Co. (Leather Handles, Straps, Corners, Loops, etc.), Salem, Mass.

Tryers (Butter & Cheese)

Humason & Beckley Mfg. Co. (Cast Steel), New Britain, Conn.

Tryers (Ham)

Johnson, Wm. (Hedenberg Works), Newark, N. J.

Tube Expanders

(See also Expanders, Tube.)

Ajax Mfg. Co., 848 Jackson, Allegheny, Pa.
 Hayes Tool Co., 41 Cross, Portland, Me.
 Oswego Tool Co. (Dudgeon, McGraw's, Giles' & Tonkin), Oswego, N. Y.
 Prosser, Thos. & Son, 15 Gold, New York

Tubes (Asbestos)

(See Tubing, Asbestos)

Tubes (Corrugated)

New Jersey Tube Co., Newark, N. J.

Tubes (Grain Drill)

Akron Machine Co., Akron, O.
 Cincinnati Rubber Mfg. Co., Cincinnati, O.
 Diamond Rubber Co., Akron, O.

Goodrich, B. F. Co. (Rubber), Akron, O.
 Gutta Percha & Rubber Mfg. Co., 126 Duane, N. Y. C.
 Morgan Spring Co. (Wire), Worcester, Mass.
 New York Belting & Packing Co. (Ltd.), 91 Chambers, New York

Tubes (Insulating)

(See Insulators. Also Conduits.)

Tubes (Mailing, Etc.)

American Paper Tube Co., Woonsocket, R. I.
 Brown, Jas. Jr. (Paper & Worsted Tubes & Cones), Main st., Manayunk, Pa.
 Chicago Paper Tube & Can Co. (Paper for Mailing, Electrical Purposes, etc.), 20 N May, Chicago, Ill.
 Detroit Paper Tube & Can Co. (Mailing, Tin End Cans, etc.), Detroit, Mich.
 Elliott, A. G. & Co., 30 S 6th, Phila., Pa.

SOLTMANN, E. G.

(For Mailing, Drawing Prints, etc.; also everything for the Architect, Engineer & Draughting Room), 125 E 42d, New York. (See adv. index, end of book)

Thompson & Norris Co., Prince & Concord, Brooklyn, N. Y.

Union Paper Co. ("Also Cans, Boxes, etc."), 844 Washington, N. Y.

United States Mailing Tube Co., 344 Washington, N. Y.

Ware, R. F., 108 Park Row, N. Y.
 Wilson, Wyle T., 1151 N 3d, Phila., Pa.

*Tubes (Map)

WILSON, F. CORTEZ & CO., 239 Lake, Chicago, Ill. (See adv. index, end of book)

Tubes (Pneumatic)

(See Pneumatic Tubes.)

Tubes (Porcelain)

Brunt, G. F. Porcelain Works (Glazed or Unglazed), East Liverpool, O.
 Pass & Seymour, Solvay, N. Y.

Tubes (Weldless Steel)

Justice, Philip & Co., 621 Chestnut, Phila., Pa.

Tubes (Wiring)

(See Insulators: also Conduits)

Tubing (Aluminum)

Aluminum Co. of America (Seamless), Pittsburg, Pa.
 Ivins, Elwood (Seamless), Oak Lane, Philadelphia, Pa., & 487 B'way, New York
 Rudolph & Summerville Tubing Co., 302 N Broad, Philadelphia, Pa.
UNITED WIRE & SUPPLY CO. (Seamless), 109 Summer, Providence, R. I. (See adv. below)

UNITED WIRE AND SUPPLY COMPANY,

109-119 Summer Street, PROVIDENCE, R. I.

Manufacturers of

Seamless and Brazed Brass and Copper Tubing,

TAPERED TUBING. GOLD AND SILVER WIRE AND TUBING. GOLD AND SILVER PLATED SEAMLESS WIRE AND TUBING. GOLD AND SILVER ANODES FOR ELECTRO-PLATING. GOLD AND SILVER SOLDERS IN WIRE AND SHEET.

Correspondence Solicited.

Tubing (Asbestos Braided)

Alliance Asbestos Mfg. Co., Alliance, O.
 Johns, H. W.-Manville Co., 100 William, N. Y.
 Keasby & Mattison Co., Ambler, Pa.
 Oil City Asbestos Co., Oil City, Pa.
WATSON, H. F. CO., Erie, Pa. (See adv. index & branch offices, end of book)

Tubing (Bedstead, Iron or Steel)

Phenix Tube Co. (Inc.) (Brass & Bronze Iron Lined), 182 N 11th, Brooklyn, N. Y.
 Shelby Steel Tube Co., Frick bldg., Pittsburgh, Pa.
 Youngstown Sheet & Tube Co., Youngstown, Ohio

Tubing (Bicycle)

American Tube & Stamping Co., Bridgeport, Conn.
 Leng's, Jno. S. Son & Co. (Jobbers & Importers, 33 Murray, New York
 Shelby Steel Tube Co., Frick bldg., Pittsburgh, Pa.
 Standard Steel Tube Co. (Brazed, etc.), Toledo, O.

Tubing (Brass Lined)

American Tube & Stamping Co. (Clincher), Bridgeport, Conn.

Tubing (Brass & Copper)

American Tube Works, 95 Broad, Boston, Mass.
 Ansonia Brass & Copper Co., Ansonia, Conn., & 99 John, New York
 Bamford & Smith Co. (Small, Seamless, Brass & Copper), Providence, R. I.
 Benedict & Burnham Mfg. Co., Waterbury, Conn.
 Bridgeport Brass Co., Bridgeport, Conn., & 19 Murray, N. Y.
 Bristol Brass Co. (Brass Brazed Only), Bristol, Conn., & 46 W B'way, N. Y.
 Chicago Brass Co. (Brazed Brass), Kenosha, Wis.
 Coe Brass Mfg. Co., Torrington, Conn.
 Croton Mfg. Co. (Brass), Croton-on-Hudson, N. Y.
 Detroit Copper & Brass Rolling Mills, Detroit, Mich.
 French Mfg. Co. (Seamless), Waterbury, Conn.

HUNGERFORD, U. T. BRASS & COP-
 per Co. (Seamless), 497 Pearl, N. Y.
 Ivins, Ellwood (Seamless), Oak Lane Station, Phila., Pa., & 487 B'way, New York
 Manhattan Brass Co., 338 E 28th, New York
MERCHANT & EVANS CO. (Inc.) (Jobbers), 517 Arch, Philadelphia, Pa. (See adv. index & branch offices, end of book)
 New Jersey Tube Co., Harrison, N. J.
 Phenix Tube Co. (Iron Lined, also Bronze), 182 N. 11th, Brooklyn, N. Y.
 Plume & Atwood Mfg. Co., Waterbury, Conn.
 Randolph-Clowes Co., Waterbury, Conn.
 Rome Brass & Copper Co. (Seamless or Brazed, also Bronze), Rome, N. Y.
 Rome Tube Co. (Seamless & Brazed), Rome, N. Y.
 Scovill Mfg. Co., Waterbury, Conn.
 Seymour Mfg. Co., Seymour, Conn.

UNION EQUIPMENT AND BRONZE CO.

520 W 36th, N. Y. (See adv. outside stencil)
UNITED WIRE & SUPPLY CO., 109
 Summer, Providence, R. I. (See adv. on preceding page)
 Waterbury Brass Co., Waterbury, Conn., & 99 John, New York
 Waterbury Mfg. Co. (Brass Brazed Only), Waterbury, Conn.
 Wells, A. H. & Co., Waterbury, Conn.

Tubing (Bronze)

Ansonia Brass & Copper Co., Ansonia, Conn., & 99 John, N. Y.
 Coe Brass Mfg. Co., Torrington, Conn.
 Manhattan Brass Co., 334 E 28th, N. Y.
 Randolph-Clowes Co., Waterbury, Conn.
 Rome Tube Co., Rome, N. Y.

UNION EQUIPMENT AND BRONZE CO.

520 W 36th, N. Y. (See adv. outside stencil)

Tubing (Celluloid)

(See Celluloid, Fibrelaid & Pyrolin Mfrs.)

Tubing (Condenser)

Benedict & Burnham Mfg. Co. ("Benedict Nickel," Brass & Copper), Waterbury, Conn.
HUNGERFORD, U. T. BRASS & COP-
 per Co. (Brass, Plain & Tinned), 497 Pearl, N. Y.

Tubing (Cotton)

Blakesley Novelty Co. (Cotton Knit), Bristol Conn.
 Buffalo Weaving & Belting Co. (for Carrying Electric Wires Under Heat), Buffalo, N. Y.
 Empire Mfg. Co., Lockport, Conn.
 Niedner, Chas. H. (Electric), Malden, Mass.

Tubing (Flexible)

American Electric Works, Providence, R. I.
 American Tubing & Webbing Co. (Gas), Providence, R. I.
 Atlantic Tubing Co. (Gas), Providence, R. I.
 National Tubing Co., Providence, R. I.
 Voorhees Rubber Mfg. Co., Jersey City, N. J.

Tubing (Flexible Metallic)

Almond, T. R. Mfg. Co. ("Almond," for Electric Light Brackets, Portables, etc.), 83 Wash'n, Brooklyn, N. Y.
 Atlantic Tubing Co., Providence, R. I.
 Automobile Supply Mfg. Co. (Brass & Copper, Air Tight, for Light Pressure), 320 Driggs av., Brooklyn, N. Y.
 Flexible Metallic Tubing Co. of America, 312 S 8th, St. Louis, Mo.
 Kaufman, A. G. Mfg. Co., 133 Rcade, New York
 Manhattan Screw & Stamping Wks., 7th av. c W 11th, New York
 Metallic Flexible Tubing Co. (Interwoven), 254 S. 2d, Phila., Pa.
 New York Flexible Metallic Hose & Tubing Co., 161 Lafayette, N. Y.
 Penn Flexible Metallic Tubing Co. (Copper or Steel High Pressure, etc.), 1305 Arch, Phila., Pa.
 Sharp & Klumph, Monadnock blk, Chicago, Ill.
 Smith, Albanus & Co., 1305 Arch, Phila., Pa.
SPRAGUE ELECTRIC CO., 547 W 34th,
 New York (See adv. index, end of book)

Tubing (German Silver)

Ansonia Brass & Copper Co., Ansonia, Conn., & 99 John, N. Y.
 Bamford & Smith, Providence, R. I.
 Benedict & Burnham Mfg. Co., Waterbury, Conn.
 Bridgeport Brass Co., Bridgeport, Conn., & 19 Murray, N. Y.
 Bristol Brass & Clock Co., Bristol, Conn.
 Coe Brass Mfg. Co., Torrington, Conn.
 Seymour Mfg. Co., Seymour, Conn.

UNION EQUIPMENT AND BRONZE CO.

520 W 36th, N. Y. (See adv. outside stencil)
UNITED WIRE & SUPPLY CO. (Seam-
 less), 109 Summer, Providence, R. I. (See adv. on preceding page)
 Waterbury Brass Co., Waterbury, Conn.

Tubing (Glass)

Corning Glass Works (Electrical, Clinical, Thermometer, etc.), Corning, N. Y.
 Fostoria Glass Specialty Co., Fostoria, O.
 Libbey Glass Co., Toledo, O.
 Lippincott Glass Co., Alexandria, Ind.
 Millville Crystal Glass Co., Millville, N. J.
MISSISSIPPI GLASS CO., 277 B'way,
 New York. (See adv. index & branch offices, end of book)
 Pairpoint Corp. (for Electrical Use), New Bedford, Mass.
 Penn Glass Tube Co., Bradford, Pa.
 Wagner Glass Works, 965 E 132d, New York

*Tubing (Gold)

UNITED WIRE & SUPPLY CO., 109 Sum-
 mer, Providence, R. I. (See adv. on preceding page)

*Tubing (Gold & Silver Plated)

UNITED WIRE & SUPPLY CO. (Seam-
 less), 109 Summer, Providence, R. I. (See adv. on preceding page)

Tubing (Hard Fibre)

American Vulcanized Fibre Co. (Vulcanized), Wilmington, Del.
 Delaware Hard Fibre Co., Wilmington, Del.
 Diamond State Fibre Co., Elsmere, Del.
 Laminar Fibre Co., North Cambridge, Mass.
 Millville Crystal Glass Co., Millville, N. J.
SPAULDING, J. & SONS CO., North
 Rochester, N. H. (See adv. index, end of book)

Tubing (Iron Lined)

Ansonia Brass & Copper Co., Ansonia, Conn., & 99 John, N. Y.
 Bridgeport Tubing Co., Bridgeport, Conn., & 19 Murray, N. Y.
 Coe Brass Mfg. Co., Torrington, Conn.
 Manhattan Brass Co., 334 E 28th, N. Y.
 Phenix Tube Co. (Brass & Bronze), 182 N 11th, Brooklyn, N. Y.

Tubing (Nickel, Brass & Copper)

Benedict & Burnham Mfg. Co., Waterbury, Conn.

*Tubing (Nickel Silver)

UNITED WIRE & SUPPLY CO. (Seam-
 less), 109 Summer, Providence, R. I. (See adv. on preceding page)

Tubing (Organ)

Chadwick-Boston Lead Co. (Composition), Boston, Mass.

Tubing (Paper)

(See Tubes, Mailing, etc.)

Tubing (Platinum)

Ivins, Ellwood, Oak Lane, Phila., Pa., & 487 B'way, New York

Tubing (Rubber)

American Hard Rubber Co., 111 Mercer, N. Y.
BOSTON BELTING CO., 260 Devonshire,
 Boston, Mass., & 100 Reade, N. Y. (See adv. index & branch offices, end of book)
 Boston Woven Hose & Rubber Co., Executive Office & Factory, Cambridgeport, Mass.
 Canfield, H. O. Co., Bridgeport, Conn.
 Consolidated Rubber Co., Trenton, N. J., & Broad st Bk bldg, N. Y.
 Continental Rubber Works, Erie, Pa.
 Crescent Belting & Packing Co. (Corrugated & Plain), Trenton, N. J.
 Davol Rubber Co., 69 Paint, Providence, R. I.
 Diamond Rubber Co., Akron, Ohio
 Empire Rubber Mfg. Co., Trenton, N. J.
 Faultless Rubber Co. (From one thirty-second to half inch), Akron, O.
 Goodrich, B. F. Co., Akron, O.
 Hamilton Rubber Mfg. Co., Trenton, N. J.
 Hartford Rubber Works Co., Hartford, Conn., & 83 Michigan av, Chicago, Ill.
 Home Rubber Co., Trenton, N. J.
 International Automobile & Vehicle Tire Co., Milltown, N. J.
 Manhattan Rubber Mfg. Co., 18 Vesey, N. Y., & Passaic, N. J.
 Mechanical Rubber Co., 91 Chambers, New York
 Miller Rubber Mfg. Co., Akron, O.
 Morgan & Wright (Inc.) (Hard Rubber), 226 Jefferson av, Detroit, Mich.
 N. J. Car Spring & Rubber Co., Jersey City, N. J.
 New York Belting & Packing Co. (Ltd.) ("Pure & C. I."), 91 Chambers, N. Y.
 New York Rubber Co., 84 Reade, N. Y.
 Peerless Rubber Mfg. Co., 16 Warren, N. Y.
 Penna. Rubber Co., Jeannette, Pa.
 Quaker City Rubber Co. (Chas. A. Daniel, Prop'r), 629 Market, Phila., Pa.
 Revere Rubber Co., 77 Bedford, Boston, Mass.
 Republic Rubber Co., Youngstown, O.
 Seamless Rubber Mfg. Co., 356 Congress av, New Haven, Conn.
 Seward Rubber Co., Berlin, Conn.
 Stokes, Jos. Rubber Co., Trenton, N. J.
 Trenton Rubber Mfg. Co., Trenton, N. J.
 Tyer Rubber Co., Andover, Mass.
 United & Globe Rubber Mfg. Co., Trenton, N. J.
 Voorhees Rubber Mfg. Co., Jersey City, N. J.
 Vulcanized Rubber Co. (Hard Rubber), 568 B'way, N. Y.
 Whitehead Bros. Rubber Co. Trenton, N. J.

Tubing (Seamless Steel)

American Tube & Stamping Co., Bridgeport, Conn.
 Delaware Seamless Tube Co., Auburn, Pa.
 Detroit Seamless Steel Tubes Co. (Cold Drawn), Detroit, Mich.
 Ivins, Elwood (Tool & Low Carbon Steel), Oak Lane, Phila., Pa., & 487 B'way, N. Y.
 Justice, Philip S. & Co. (Weldless Imported), 421 Chestnut, Phila., Pa.
 Leng's, Jno. S. Sons & Co. (Importers Cold Drawn), 33 Murray, N. Y.
 Pittsburg Seamless Tube Co., Beaver Falls, Pa.
 Rudolph-Summerville Tubing Co. (Copper), 302 N Broad, Phila., Pa.
 Seamless Tube Co. of America, Pittsburgh, Pa.
 Sbelby Steel Tube Co., Frick bldg., Pittsburgh, Pa.
 Standard Seamless Tube Co., Ellwood City, Pa.
 Standard Welding Co. (Electrically Welded), 41 Cone, Cleveland, O.
 Youngstown Sheet & Tube Co., Youngstown, O.

Tubing (Silver)

Ivins, Elwood (Seamless), Oak Lane, Phila., Pa., & 487 B'way, New York
UNITED WIRE & SUPPLY CO. (Seamless), 109 Summer, Providence, R. I. (See adv. index, end of book)

Tubing (Square)

Western Tube Co. (Also Rectangular), Kewanee, Ill.

***Tubing (Square, Seamless Steel)**

BRAUN, J. G., 322 S Paulina, Chicago, Ill., & 537 W. 35th, New York, N. Y. (See adv. index, end of book)

Tubing (Steel)

(See also Tubing, Seamless Steel; also Pipe & Tube Mills.)

American Tube & Stamping Co., Bridgeport, Conn.
 Delaware Seamless Tube Co., Auburn, Pa.
 Detroit Seamless Steel Tubes Co. (Cold Drawn), Union Trust bldg, Detroit, Mich.
 Eagle Tube Co., 154 Nassau, New York, Works, Jersey City, N. J.
 Ivins, Elwood Tube Works, Oak Lane, Phila., Pa., & 487 B'way, N. Y.
 Laminated Tube Co., Columbus, Ohio
 National Tube Co., Frick bldg, Pittsburgh, Pa.
 New Jersey Tube Co., Harrison, N. J.
 Ott, Ernest F., Norristown, Pa.
 Pittsburg Seamless Tube Co., Beaver Falls, Pa.
 Shelby Steel Tube Co., Frick Bldg, Pittsburgh, Pa.
 Standard Steel Tube Co. (Bicycle, Brazed, etc.), Toledo, O.
 Standard Welding Co., 37 Cone, Cleveland, O.

Tubing (Structural)

Danville Structural Tubing Co., Danville, Pa.
 Elyria Iron & Steel Co. (High Carbon Steel, Butted & Brazed), Elyria, O.

***Tubing (Tapered Seamless)**

UNITED WIRE & SUPPLY CO. (Gold, Silver, Brass & Copper), 109 Summer, Providence, R. I. (See adv. index, end of book)

Tubing (Wood)

Morse Cedar Co., Saginaw, Mich.

Tubing (Zinc)

Benedict & Burnham Mfg. Co., Waterbury, Conn.
 Bridgeport Brass Co., Bridgeport, Conn., & 19 Murray, N. Y.
HUNGERFORD, U. T. BRASS & COPPER CO., 497 Pearl, N. Y.
 Manhattan Brass Co., 338 E 28th, N. Y.
 Scoville Mfg. Co., Waterbury, Conn.
 Waterbury Brass Co., Waterbury, Conn.

***Tubing & Mouldings (Special Shapes)**

UNION EQUIPMENT AND BRONZE CO.

520 W 36th, N. Y. (See adv. outside stencil)

Tubs (Galvanized Iron)

(See also Pails, Galvanized Iron)

Wheeling Corrugating Co. (Wash Tubs), Wheeling, W. Va.

Tubs (Hoisting & Dumping)

(See also Buckets, Various Kinds.)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

AMERICAN HOIST & DERRICK CO., St. Paul, Minn. (See adv. index & branch offices, end of book)

BROWN HOISTING MACHINERY CO., St. Clair, N. E., Cleveland, O., & 26 Cortlandt, N. Y. (See adv. index, end of book)

Clark, W. J. Co., Salem, O.
 Coatesville Boiler Works, Coatesville, Pa.
 Cyclopean Company, 30 Franklin, Brooklyn, N. Y.

Dedrick's, P. K. Sons, Albany, N. Y.
DOBBIE FOUNDRY & MACHINE CO., Niagara Falls, N. Y. (See adv. index & branch offices, end of book)

FLORY, S. MFG. CO., Bangor, Pa. (See adv. index, end of book)

Focht, George Sons, 119 Adams, Hoboken, N. J.

Frankford Machine Works, Frankford, Phila., Pa.

Gregg Company (Ltd.), Newburgh, N. Y.
 Hoshor-Platt Co. (Automatic Coal), 120 Liberty, New York

Hunt, C. W. Co., 45 B'way, N. Y. Works: West New Brighton, S. I., N. Y. City

JEFFREY MFG. CO., Columbus, O. (See adv. index & branch offices, end of book)

KOPPEL, ARTHUR CO., 68 Broad New York. (See adv. index & branch offices, end of book)

Littleford Bros., 453 E Pearl, Cincinnati, O.
MEAD-MORRISON MFG. CO., Cambridge, Mass., & 11 B'way, New York. (See adv. index & branch offices, end of book)

N. J. Foundry & Machine Co., 13 Murray, N. Y.
 Phillips, Doup & Co., 56 Pearl, Brooklyn, N. Y.

Pollock, Alex. Co., 203 West, N. Y.
 Sharon Boiler Works, Sharon, Pa.

Steubner, G. L. Iron Works, Long Island City, N. Y.

Turl's, John Sons (Inc.), 26 Cortlandt, New York, N. Y. Works, Newburgh, N. Y.

Union Iron Works, Hoboken, N. J.
WIENER, ERNST CO., 68 Broad, New York. (See adv. index, end of book)

WILLIAMS, G. H. CO., 1513 Rockefeller bldg., Cleveland, O. (See adv. index, end of book)

Wonham-Magor Engineering Works, 29 B'way, New York

Tubs (Mash)

KOVEN, L. O. & BRO., 50 Cliff, New York. (See adv. index, end of book)
 Novelty Steam Boiler Works (Triplett & Jennings), 917 S Howard, Baltimore, Md.

Tubs (Plant)

American Wooden Ware Mfg. Co. (Wooden), Toledo, O.

Tubs (Self-Dumping)

AKRON CULTIVATOR CO., Akron, O. (See adv. index, end of book)
 Carlin's, Thos. Sons Co., 1300 River av, Allegheny, Pa.

Focht's, Geo. Sons, Hoboken, N. J.
 McMyler Mfg. Co., 1799 Columbus rd, Cleveland, O.

WILLIAMS, G. H. CO., 1513 Rockefeller bldg., Cleveland, O. (See adv. index, end of book)

***Tubs (Wire Cleaning)**

WRIGHT WIRE CO., Worcester, Mass. (See adv. index, end of book)

Tungsten

Beaver Metallurgical Co. ("Beaver" Brand), Beaver Falls, Pa.
 Primos Chemical Co., 36 Lansdowne, Phila., Pa.
 Roessler & Hasslach Chemical Co., 100 William, New York

Turbine Water Wheels

(See also Water Wheels.)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index, and branch offices, end of book)

Allentown Foundry & Machine Works (Inc.), Allentown, Pa.

Bartley, Wm. & Son (The Watertight), Bartley, N. J.

Blake, H. & Son, East Pepperell, Mass.
 Blickendefer, Richard, Lancaster, Pa.

Chase Turbine Mfg. Co., Orange, Mass.
 Christiana Machine Co., Christiana, Pa.

Clark Machine Co., Turner's Falls, Mass.
 Davis Foundry & Machine Works, Rome, Ga.

Dayton Globe Iron Works Co. ("New American, Vertical & Horizontal), Dayton, O.

De Loach Mill Mfg. Co., Atlanta, Ga.
 Dubuque Turbine & Roller Mill Co., Dubuque, Ia.

Eyster, Weiser & Co. (Ltd.), York, Pa.
 Fitz Water Wheel Co., Hanover, Pa.

Glascok, G. T. & Sons, Greensboro, N. C.
 Hendy, Joshua Machine Works, San Francisco, Calif.

Holyoke Machine Co. ("Hercules"), Holyoke, Mass.
 Humphrey Machine Co., Keene, N. H.

Hunt, Rodney Machine Co., Orange, Mass.
 I. & L. Steel Overshoot Water Wheel Co., Hanover, Pa.

Jolly, J. & W., Holyoke, Mass.
 Kingsford Foundry & Machine Works, Oswego, N. Y.

Lancaster Turbine Wheel Co., Lancaster, Pa.
LANE MFG. CO. ("Monitor"), Montpelier, Vt. (See adv. index, end of book)

Leffel, James & Co. ("Samson"), Springfield, O.

Mine & Smelter Supply Co. ("De Remer"), Denver, Colo.

Morris, I. P. Co. ("Francis" & "Girard" Type), Beach & Ball, Phila., Pa.

Nichols, Albert F., 157 Willie, Lowell, Mass.
 Norrish, Burnham & Co., Glen Rock, Pa.

Platt Iron Works Co. (The "Victor"), Dayton, O., & 100 B'way, New York

Poole Engineering & Machine Co., Woodberry Station, Baltimore, Md.

Putnam Machine Co., Fitchburg, Mass.

Risdon-Alcott Turbine Co. ("Risdon," "Alcott," High Duty & "Taylor" Ileeve Gate), Mt. Holly, N. J.

Robinson, A. J., Brentwood, N. H.

Sergeant Mfg. Co., Greensboro, N. C.

Smith, S. Morgan Co. ("McCormick" & Smith), York, Pa.

Swain Turbine & Mfg. Co., Lowell, Mass.

Sullivan Machinery Co., 135 Adams, Chicago, Ill.

Trump Mfg. Co. ("Trump"), Springfield, Ohio

Valley Iron Works Co., Appleton, Wls.

Wellman-Seaver-Morgan Co., Cleveland, O.

Wood, R. D. & Co. ("Geylein-Jonval"), 400 Chestnut, Phila.

Turbines (Air)

Aurora Automatic Machy Co. ("Thor"), Aurora, Ill.

***Turbines (Hydraulic)**

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index, and branch offices, end of book)

Turbines (Steam)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index, and branch offices, end of book)

American Turbine Engine Co. (Compound, Direct Connected), Washington, D. C. & 42 B'way, N. Y.

Backstrom-Smith Steam Turbine & Mfg. Co., Milwaukee, Wis.

Ball & Wood Co. ("Rateau"), Battery pl., & Elizabeth, N. J.

Dake American Steam Turbine Co., Grand Rapids, Mich.

De Laval Steam Turbine Co., Trenton, N. J.

Fletcher, W. & A. Co. ("Parsons" Marini), Hoboken, N. J.

GENERAL ELECTRIC CO. ("Curtis"), Schenectady, N. Y., & 44 Broad, New York. (See adv. below; branch offices, end of book)

Hooven, Owens, Rentschler Co. ("Hamilton-Holzwarth"), Hamilton, O.
Kerr Turbine Co. (Non Condensing), Wells-ville, N. Y.
Parsons' Marine Steam Turbine Co. (Ltd.), 97 Cedar, N. Y.
Providence Engineering Works, Providence, R. I.

WESTINGHOUSE MACHINE CO., THE ("Westinghouse" Type), Westinghouse bldg, Pittsburg, Pa.

Turf Edgers

Continental Tool Co. (Solid Steel Bronze Finish), Frankfort, N. Y.
Jackson Shovel & Tool Co., Montpelier, Ind.,

Turkish (Emery)

Stiles, H. A. & Co. ("Ottoman" Brand), 176 Federal, Boston, Mass.

Turn & Transfer Tables

American Bridge Co., 42 B'way, New York
Barbour-Stockwell Co. (Transfer, etc.), Cambridgeport, Mass.
BONNOT COMPANY (Industrial), Canton, O. (See adv. index, end of book)
Boston Bridge Works (Railroad Turntables, etc.), 47 Winter, Boston, Mass.
Brill, J. G. Co. (Transfer, etc.), Woodland av & 62d, Phila., Pa.
Buda Foundry & Mfg. Co. (Turn Tables Only), Harvey, Ill., & Railway Exchange bldg., Chicago, Ill.
Canton Bridge Co., Canton, O.
CAREY, GEO. H., 1 B'way, New York. (See adv. index, end of book)
Chicago Bridge & Iron Co., 105th & Throop, Chicago, Ill.
Cleveland Car Co. (Transfer, etc.), Cleveland, O.
Clinton Bridge Co., Clinton, Ia.
Columbia Bridge Co., Pittsburg, Pa.
Fulton Foundry Co. (Turn Tables Only), Marquette at L. S. & M. S. Rys., Cleveland, O.
Gregg Company (Ltd.), For Industrial Railways, Newburgh, N. Y.
Harrington, Edw. Son & Co., 17th & Callow-hill, Phila., Pa.
Hunt, C. W. Co. (Transfer, etc.), 45 B'way, N. Y. Works, West New Brighton, S. I., New York City
Industrial Works (Transfer for Industrial Purposes), Bay City, Mich.
Interstate Engineering Co. (Electric), Bedford, Ohio
Johnston, R. R. Frog & Switch Co. (Turn & Transfer), Chester, Pa.
Kilbourne & Jacobs Mfg. Co. (Transfer, etc.), Columbus, O.
King Bridge Co., Cleveland, Ohio.
KOPPEL, ARTHUR CO. (Transfer, etc.), 68 Broad, New York. (See adv. index, & branch offices, end of book)
Link Belt Machinery Co. (Transfer, etc.), 39th & Stewart av, Chicago
McClintic-Marshall Construction Co., Pittsburg, Pa.; Rankin Station, Pa., & Pottstown, Pa.
Mt. Vernon Bridge Co., Mt. Vernon, O.

Missouri Valley Bridge & Iron Works (A. J. Tullock, Prop.), Leavenworth, Kan.
N. Y. Switch & Crossing Co., Hoboken, N. J.
Peacock's Iron Works, Selma, Ala.

Penna. Bridge Co., Beaver Falls, Pa.
Penna. Steel Co., Girard bldg, Phila., Pa. Mills: Steelton, Pa.

Quincy-Manchester-Sargent Co. (Locomotive Turn Tables), Old Colony bldg., Chicago, Ill., & 114 Liberty, New York

Republic Iron & Steel Co., Frick bldg Annex, Pittsburg, Pa.

STROBEL STEEL CONSTRUCTION CO., Successors to C. L. Strobel (Locomotive), Monadnock blk., Chicago, Ill.

Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Phila., Pa.

Tippett & Wood, Phillipsburg, N. J.
Toledo-Massillon Bridge Co., Toledo, O., & Massillon, O.

Virginia Bridge & Iron Co., Roanoke, Va.
Whartou, Wm., Jr., & Co. (Inc.), (Transfer, etc.), 25th & Wash'g av, Phila., Pa.

WHITING FOUNDRY EQUIPMENT Co., Harvey, Ill. (See adv. index, end of book)

WIENER ERNST CO., 68 Broad, N. Y. (See adv. index, end of book)
Wiscousin Bridge & Iron Co., Pabst bldg, Milwaukee, Wis.

Turnbuckles (Blind)

Reading Hardware Co. (also Rim), Reading, Pa.
Pittsburg, Pa.

Turnbuckles (Tubular)

Janney, Steinmetz & Co., 4th & Market, Phila., Pa.

Turnbuckles (Wrought Iron)

American Iron & Steel Mfg. Co., Lebanon, Pa.
Buckeye Forging & Specialty Co. ("Renner"), Sebring, O.

Central City Bolt Co., Syracuse, N. Y.
Cincinnati Railway Supply Co., 13 E 2d, Cleveland, O., & 11 B'way, N. Y.

Columbus Bolt Works, Columbus, O.
Continental Bolt & Iron Works, 22d & Union, Chicago, Ill.

Detroit Screw Works, Detroit, Mich.
Hall's, Samuel Sons, 229 W 10th, N. Y.

Haskell, Wm. H. Mfg. Co., Pawtucket, R. I.
Hoopes & Townsend Co., 1330 Buttonwood, Phila., Pa.

Hubbard & Co. (With Welded Eye Bolts), Pittsburg, Pa.
Jones & Laughlin Steel Co. (Ltd.), Pittsburg, Pa.

Kansas Bolt & Nut Co., Kansas City, Mo.
Kropp, A. & Co., 52 Law, Chicago, Ill.

Lanz, M. & Sons, 101 S 29th, Pittsburg, Pa.
McMILLAN'S, W. H. SONS, 153 South, New York. (See adv. index, end of book)

MERRILL BROS., 465 Kent av, Brooklyn, N. Y. (See adv. index, end of book)
Michigan Bolt & Nut Works, Detroit, Mich.
Moran Bolt & Nut Mfg. Co., St. Louis, Mo.

NATIONAL SUPPLY CO., 7 W Lombard, Baltimore, Md. (See adv. index, end of book)

New England Bolt & Nut Co., 267 Atlantic av, Boston, Mass.

Newhall Chain Forge & Iron Co., 15 Murray, N. Y.

Pawtucket Mfg. Co. (Drop Forged), Pawtucket, R. I.

Payne's Bolt Works, 121 Howard, San Francisco, Cal.

Pittsburg Mfg. Co., 28th & R. R., Pittsburg, Pa.

Republic Iron & Steel Co., Frick bldg Annex, Pittsburg, Pa.

Rhode Island Tool Co. (Drop Forged Plain & Eye & Hook & Eye), Providence, R. I.

Russell, Burdsall & Ward Bolt & Nut Co., Portchester, N. Y.

Union Elevator & Machine Co., 144 Ontario, Chicago, Ill.

Wilcox, Crittenden & Co. (Light), Middletown, Conn.

Turners (Cake)

Arcade Mfg. Co. (Steel Blade, Wood Handle), Freeport, Ill.

Potter Mfg. Co. ("Potter"), Geneva, O.

Turnstiles

American Passimeter Co., 85 Worth, N. Y.
Bright, H. V. (Registering), 72 Clarkwood av, Cleveland, O.

Fiske, J. W., 39 Park pl, N. Y.
SMITH, F. P. WIRE & IRON WORKS, 100 Lake, Chicago, Ill. (See adv. index, end of book)

VAN KANNEL REVOLVING DOOR Co., Home Office, 524 E 134th, New York. (See adv. index & branch offices, end of book)

Turn Table Device (Locomotive)

Piling Air Engine Co. (Air Connection), Detroit, Mich.

Turntable Equipments

Nichols, Geo. P. & Bros. (Electric, Gasoline & Air), Old Colony bldg, Chicago, Ill.

Turntables (Automobile)

Autobed Co., 36 Columbus av, Boston, Mass.
Bicycle Step Ladder Co., 65 Randolph, Chicago, Ill.

Gibbs-Bower Co. (Sterling-Elliott), 150 Nassau, N. Y.

Link-Belt Co., Nicetown, Phila., Pa.

Lyon Utility Co., Rochester, N. Y.

North Penn Iron Co. ("Penn"), 3d & Venango, Phila., Pa.

Philadelphia Turntable Co., Real Estate bldg, Phila., Pa.

Pitless Turntable Co., Kansas City, Mo.

Smith, G. W. & F. Iron Co., Boston, Mass.

Smith, H. Machine Co., 51 Goodwin, Paterson, N. J.

Thomas Mfg. Co., Franklin, Pa.

Weber Cycle & Supply Co. ("Weber"), Colorado Springs, Col.

GENERAL ELECTRIC COMPANY

CURTIS STEAM TURBINE GENERATOR SETS

Direct connected alternating current sets, 300 Kw to 8,000 Kw output.
Direct connected continuous current sets, 15 Kw to 2,000 Kw output.

GENERAL ELECTRIC COMPANY OF NEW YORK, U. S. A.

PRINCIPAL OFFICE: SCHENECTADY, N. Y.

NEW YORK OFFICE: 44 BROAD STREET

Sales Offices in all large cities in the United States

For Great Britain and Ireland:

THE BRITISH THOMSON-HOUSTON CO., Ltd.,

Rugby and 83 Cannon St., London, E.C.

Turntables for Industrial Railways

Apex Equipment Co. (Mfrs'. Agts), 11 B'way, New York
 Atlas Car & Mfg. Co., Cleveland, O.
 Byram & Co. (Inc.), Detroit, Mich.
CANTON FOUNDRY & MACHINE CO., Canton, O. (See adv. index, end of hook)
CAREY, GEO. H., 1 B'way, New York. (See adv. index, end of hook)
 Carlin's, Thos. Sons Co., Allegheny, Pa.
 Chambers Bros. Co. (For Brick Yards, etc.), 52d bel Lancaster av, Phila., Pa.
 Cleveland Car Co., 148 Scranton av, Cleveland, O.
 Gregg Company (Ltd.), Newburgh, N. Y.
 Howe Scale Co. of Illinois, 1315 Wabash av, Chicago, Ill.
 Hunt, C. W. Co., 45 B'way, N. Y. Works: West New Brighton, S. I., N. Y. City
 Interstate Engineering Co. (Hand & Electric), Bedford, Ohio
KOPPEL, ARTHUR CO., 68 Broad, New York. (See adv. index & branch offices, end of hook)
 Link Belt Co. (Ball Bearing), W 39th & Stewart av, Chicago, Ill., & 299 B'way, N. Y.
 Lobdell Car Wheel Co., Wilmington, Del.
MINNEAPOLIS STEEL & MACHINE CO., Minneapolis, Minn. (See adv. index & branch offices, end of hook)
NORTHERN ENGINEERING WORKS, Detroit, Mich. (See adv. index, end of book)
 Ohio Ceramic Engineering Co., Cleveland, O.
 Peteler Portable Mfg. Co., Minneapolis, Minn.
 Power & Mining Machinery Co. (For Mines, etc.), 52 William, New York. Works: Cudahy, Wis.
RUSSEL WHEEL FOUNDRY CO., Detroit, Mich. (See adv. index, end of hook)
 Stuehner, G. L. Iron Works, Long Island City, N. Y.
 Turl's, John Sens (Inc.) (Ball Bearing), 26 Cortlandt, New York. Works, Newburgh, N. Y.
WATSON, BENJAMIN, 66 Beaver, New York (See adv. index, end of book)
WHITING FOUNDRY EQUIPMENT Co., Harvey, Ill. (See adv. index & branch offices, end of book)
WIENER ERNST CO., 68 Broad, New York. (See adv. index, end of hook)
 Wonham-Magor Engineering Works, 29 B'way, New York

Turntables (Overhead)

Atlas Bolt & Screw Co., Cleveland, O.
FREVERT MACHINERY CO., 18 Dey, New York. (See adv. index, end of hook)
 Harrington, Edw. Son & Co., 17th & Callowhill, Phila., Pa.
 Obenberger, Jno. Co., Milwaukee, Wis.
READING CRANE & HOIST WORKS, Reading, Pa. (See adv. index, end of hook)

Turpentine

ALABAMA.

COFFEE SPRINGS—Brigman, Sellers & Co.
 FLORALA—Cole-Kenney Turpentine Co.
 Elliott, Henry
 McLean & Williamson
 HARTFORD—Hall, G. L.
 WAGAR—Lewis, D. R. & W. P.

FLORIDA.

ABBOTT—Phifer, W. B.
 ARMSTRONG—Padgett, P. M.
 BARBERVILLE—Tatum, J. H.
 BELLEVIEW—Hall & Thaggard
 CARTERS—Carter, L.
 CENTER FARM—Moore, R. O. & Co.
 DUNNELLON—Wiggs, W. H. & Co.
 DUVAL—Broward & McGeachy
 FAIRFIELD—Wade & McNair
 GRETNA—Humphrey & Co.
 JACKSONVILLE—Hillman-Sutherland Co.
 MONTBROOK—Flynn, D. M. & Co.
 MONTICELLO—Bryan, D. H. & Son
 OLUSTEE—Olustee Turpentine Co.
 ORANGE MILLS—Millcan, J. H. & Co.
 OTTER CREEK—Fisher, J. S. & Co.
 Page, Jenkins & Co.
 PANASOFFKEE—Malloy, A. P.
 PERRY—Blair & Hinely
 PINE CASTLE—Edge & Howard
 PORT RICHEY—Sessoms, Johnson & Co.

RAIFORD—Raiford, H. W.
 ROCK BLUFF—Daisy Co.
 STARKE—Powell-Smith Co.
 TALLAHASSEE—Lutterloh, R. B.
 TAMPA—Peninsular Naval Stores Co., Tampa, Fla.
 WEBSTER—Getzen, J. C.
 WOODVILLE—Williamson & Co.
 YORK—Horne, Louis, & Co.

GEORGIA.

ADEL—Booth Bros. Co.
 Booth, Parrish & Co.
 AILEY—Riddle, J. A.
 ALBANY—Cook, I. & Co.
 ALLAPAH—Baker, J. H.
 ALTAMAH—Tippins, Jno. U.
 ARLINGTON—Callahan & Newberry
 AUTRYVILLE—Antry, D. A.
 BAINBRIDGE—Callahan, J. W.
 BINGHAM—Dormlney, Kirkland & Co.
 BLADEN—Ward, J. A.
 CLAXTON—White, R. K.
 EDEN—Fetzer, G. W.
 EGYPT—Foy Lumber Co.
 EVERGREEN—Warren & Dickson
 FALES—Tanner, B. H.
 FARGO—Hamby & Toomer
 GROVELAND—Klicklighter & Boatright
 HAGAN—Smith, M. A.
 HARTSFIELD—Spivey, Bell & Co.
 HILTON STATION—Hilton, E.
 HOMERVILLE—Peagler, H. J. & Son
 IRWINVILLE—Barber Bros. & Co.
 JOHNSTON STATION—Hughes, J. W. Jones, W. F. & Bro.
 LAFF—Gray, Geo. T.
 LEARY—Williams, B. B.
 LELIATON—Keefe & Bullard
 LEXSY—Youmans Bros.
 LONG POND—McArthur, J. H.
 McDONALD—Bennett, D. H. & Bro.
 McRAE—Holland & Rawls
 MEIGS—Carter, J. N.
 MILLEN—Parker, H. W.
 MORGAN—Williams, B. B.
 MOULTRIE—Holmes & Co.
 Smith & Morrison
 Spivey & Moore
 Vereen, W. C.
 NASHVILLE—Brown, E. G.
 Brown, W. D. & Co.
 NICHOLLS—Hall & Britt
 NIELLY—Smith, T. J.
 OCILLA—Powell-Bullard & Co.
 OLYMPIA—West Yellow Pine Co.
 PFEIFFER—Pfeiffer, C. B. (Est. of)
 PHILIPS MILL—Tatum & Holland
 REYNOLDS—Barber & Rawl
 ROCKY FORD—Finch, D. C. (Saw Mill)
 SHEPHERD—Lott, J. S.
 STATESBORO—McDougald, J. A. & Co.
 Williams, Outland & Co.
 THOMASVILLE—Floyd, Howell & Co.
 VIENNA—Kelly, R. E.
 WHIGHAM—Lane, J. W.
 WHITE OAK—McKinnon, L. T. & G. S.
 WILLACOOCHIE—O'Berry, J. E. Sons & Co.
 WILLINGHAM—Alford, C. A.

LOUISIANA.

COVINGTON—Jones & Pickett
 CROWLEY—Arcadia Iron Works

NEW YORK.

NEW YORK—Georgia Pine Turpentine Co. o
 New York, 158 Perry
 Gardiner & Percy Co., 56 Pine

NORTH CAROLINA.

ANGIER—Williams, J. C. & B. F.
 CLINTON—McPhall, J. R.
 MANLEY—Buchan, J. E.
 NEWBERN—Ellis, Mrs. E. B.

SOUTH CAROLINA.

ADVANCE—Gresset & Co.
 CONWAY—Burroughs & Collins Co.
 GALIVANTS FERRY—Holliday, G. J.
 GEORGETOWN—Georgetown Chemical Works

Turret Attachments

Denyes, R. G. Machine & Tool Co., Hoopes-ton, Ill.

Tuyeres & Coolers

Ajax Metal Co., 46 Richmond, Phila., Pa., & Birmingham, Ala.
 Best Mfg. Co. (Bronze), 25th & R. R., Pittsburgh, Pa.
 Eastwood Wire Mfg. Co., Belleville, N. J.
 Falcon Bronze Co., Youngstown, O.
HARTMAN CO., 1231 N Front, Phila., Pa. (See adv. index, end of book)
 Lawrenceville Bronze Co., 31st & Penn av, Pittsburg, Pa.
 MacKenzie's, Duncan & Son, Trenton, N. J.
 United Engineering & Foundry Co., Pittsburgh, Pa.

Tweezers (Piano Makers')

Kraeuter & Co., Newark, N. J.

Twine (Binder)

American Grass Twine Co., St. Paul, Minn.
 American Mfg. Co. (Sisal & Manila & Jute), 63 Wall, N. Y.
 Bailey, Christopher, 810 S Swanson, Phila., Pa.
 Bailey, John T. & Co. (Sisal & Manila), c. Water & Morris, Philadelphia, Pa.
 Bay State Cordage Co. (Manila & Sisal), Newburyport, Mass.
 Chelsea Cordage Co., Chelsea, Mass.
 Fittler, Edwin H. Co., 23 N Delaware av, Phila., Pa.
 Galveston Rope Co. (Sisal), Galveston, Tex.
 Groendyke, J. O. Co., 140 Dearborn, Chicago, Ill.
 Hoover & Allison Co. (Hemp & Cotton), Xenia, O.
 International Harvester Co. of America (Sisal & Manila), 7 Monroe, Chicago, Ill.
 Osborne Plant, Auburn, N. Y.
 Jackson, Thos. & Son (Manila & Sisal), Reading, Pa.
 Kentucky River Mills (Hemp & Flax), Frankfort, Ky.
 Lawrence Cordage Works, 46 South, N. Y.
 Ludlow Mfg. Co. (Manila & Sissal), 133 Essex, Boston, Mass., & Ludlow, Mass.
 Miamisburg Twine & Cordage Co. (Manila & Sisal), Miamisburg, O.
 Nebraska Binder Twine Co., Fremont, Neb.
 New Bedford Cordage Co. (Jute), New Bedford, Mass.
 Penn Cordage Co., 44 Broadway, N. Y.
 Peoria Cordage Co. (Sisal & Manila), Peoria, Ill.
 Plymouth Cordage Co., Plymouth, Mass.
 Portland Cordage Co. (Flat), Portland, O.
 Rink's, J. Sons, Easton, Pa.
 St. Louis Cordage Co. (Jute), St. Louis, Mo.
 Standard Cordage Co. ("Crown" & "Sewell & Day" Brands), 82 Beaver, New York
 Standard Rope & Twine Co., 17 State, N. Y.
 State Penitentiary, Bismarck, N. Dak.
 Traverse Bros. (Sisal & Manila), 41 Worth, N. Y.
 Tubbs Cordage Co., Kohl bldg., San Francisco, Cal.
 Union Selling Co., 17 State, N. Y.
 Waterbury Co. (Inc.), (Sisal & Manila), 69 South, New York

Twine (Seine)

American Net & Twine Co., 575 Atlantic av., Boston, Mass.
 Bihh Mfg. Co., Macon, Ga.
 Brownell & Co., Moodus, Conn.
 Fowler Net & Twine Co., 107 S. Second st., Philadelphia, Pa.
 Gloucester Net & Twine Co., Gloucester, Mass.
 Greene & Daniels Mfg. Co., Pawtucket, R. I.
 Lees Mfg. Co., Westport, Conn.
 Manchester Mfg. Co., Macon, Ga.
 Purple, A. E., Moodus, Conn.

Type (Rubber)

Crescent Seal & Stamp Co., Cambridge, O.
 Smith, R. H. Mfg. Co. (Metal Body), 293 Main, Springfield, Mass.
 Superior Rubber Type Co., 126 Market, Chicago, Ill.

Type (Wood)

Empire Wood Type Co., 818 E 5th, N. Y.
 Hamilton Mfg. Co., Two Rivers, Wis.
 Tubbs Mfg. Co. ("Tubbs" Point Line, & Printers Wood Furniture), Ludington, Mich.

Typewriter Carbon Papers

(See also Paper & Carbons)

SOLTMANN, E. G.

(Papers & Carbons, Extra Large Size Sheets; also in Rolls for Duplicating Drawings & Manuscript), 125 E. 42d, New York. (See adv. index, end of book)

*Typewriter Ribbon Cutting Machines

CAMERON MACHINE CO., 61 Poplar,
Brooklyn, N. Y. (See adv. index, end of book)

Typewriter Ribbons

American Multigraph Co., Case av., cor. Kelley, Cleveland, O.
 American Ribbon & Carbon Co. ("Eagle"), Rochester, N. Y.
 Bullard Co. ("Bullard"), Wheeling, W. Va.
 Carter's Ink Co., 162 Columbus av., Boston, Mass.
 Donovan & Strauss, 58 Frankfort, Cleveland, O.
 Indellba Mfg. Co. (Inc.), Rochester, N. Y.
 Kee Lox Mfg. Co. ("Kee Lox"), Rochester, N. Y.
 Kruse Printing Ink Co., 91-93 Cliff st., New York
 Little, A. P., Rochester, N. Y.
 Stambaugh, Wm. B., Metropolitan Life Bldg., New York city
 Wehster, F. S. Co., Boston, Mass.

Typewriter Stands

Tatum, Samuel C. Co., 414 W. Water, Cincinnati, O.

Typewriters

American Writing Machine Co., 343 B'way, New York
 Blickensderfer Mfg. Co., Stamford, Conn.
 Chicago Writing Machine Co., 151 Wabash av., Chicago, Ill.
 Columbia Typewriter Mfg. Co., 56 Reade, New York

Densmore Typewriter Co., 346 B'way, New York
 Elliott-Fisher Co., 329 B'way, New York, N. Y.
 Elliott & Hatch Book Typewriter Co., 329 B'way, New York
 Fay-Sholes Co., Chicago, Ill.
 Fox Machine Co., Grand Rapids, Mich.
 Franklin Typewriter Co., 812 Greenwich, New York
 Hall, Thomas, 257 39th, Brooklyn, N. Y.
 Hammond Typewriter Co., 212 B'way, New York
 Hartford Typewriter Co., Hartford, Conn.
 Ithaca Gun Co., Ithaca, N. Y.
 Jewett Typewriter Co., Des Moines, Ia.
 Monarch Typewriter Co., Syracuse, N. Y.
OLIVER TYPEWRITER CO., 310
 B'way, New York. (See adv. below)
 Pittsburg Writing Machine Co.; Works, Kittanning, Pa.
 Postal Typewriter Co., South Norwalk, Conn.
 R. & G. Typewriter Co., 229 B'way, New York
 Remington Typewriter Co., 327 B'way, New York
 Simplex Typewriter Co., 644 1st av, New York
 Smith Premier Typewriter Co., Syracuse, N. Y.
 Sun Typewriter Co., 239 B'way, New York
 Triumph Visible Typewriter Co., Flat Iron bldg., New York, N. Y.
 Underwood Typewriter Co., Hartford, Conn.
 Visible Typewriter Mfg. Co., Kenosha, Wis.
 Williams Typewriter Co., Derby, Conn.
 Writing Machine Co., Bridgeport, Conn.
 Yost Writing Machine Co., 245 B'way, N. Y.

Typewriters (Adding & Billing)

Arithmograph Co. (Adding), 287 B'way, N. Y.
 Elliott-Fisher Typewriter Co., 329 B'way, N. Y.
 Ellis Adding Typewriter Co., 1 Madison av., New York

Typewriters (Multiple)

American Multigraph Co. ("Grammeter Multigraph"), Case av & Kelley, Cleveland, O.

Umbrella Parts (Steel)

Newark Rivet Works, Newark, N. J.

Unions

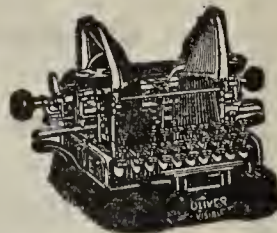
American Steam Trap Co., 60 Church, Albany, N. Y.
 Bard Union Co. (Inc.) ("Bard," for Gas, Steam, Oil, etc.), Norwich, Conn.
 Belfield, H. & Co. (Flanger Malleable Iron), 453 N Broad, Phila., Pa.
 Best Mfg. Co. ("Universal"), 25th & A. V. Ry., Pittsburg, Pa.
 Buckeye Iron & Brass Wks., Dayton, O.
 Chum & Atkinson (Brass, Ground Joint), Rochester, N. Y.
 Darling Pump & Mfg. Co., Williamsport, Pa.
DART, E. M. MFG. CO. ("Peerless"),
 Providence, R. I. (See adv. on following page)
 Devlin, Thos. & Co. ("National"), Phila., Pa.
 Eastwood Wire Mfg. Co. (Bronze, End Flanged, etc.), Belleville, N. J.
 Eaton, Cole & Burnham Co. (Brass), Bridgeport, Conn.
 Eureka Brass Works, Cincinnati, O.
 Featherstone Foundry & Machine Co. (Drop Forged Flange), 348 N Halstead, Chicago, Ill.
 Flagg, Stanley G. & Co. ("Keystone," Soft Metal Seat), 424 N 19th, Phila., Pa.
 General Fire Extinguisher Co. (Flanged Cast Iron, etc.), Providence, R. I.
 Hamlin & Emery Brass Co. (Brass), 26 Island, Boston, Mass.
 Jefferson Mfg. Co. (for High & Low Pressure), Lexington, Mass.
 Lambert, Geo. B. & Co., Chicago, Ill.
LUNKENHEIMER CO. General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)
 McCarthy, Felix, Pottstown, Pa.
 Monash-Younger Co. ("Star"), 203 S Canal, Chicago, Ill.
 Mullaney's, Jas. Son., 25th & Lex av, N. Y.
 Newbury Mfg. Co. (Gray Iron), Monroe, N. Y.
 Nichol, Thos. J. & Co. (Brass), Pearl & Ludlow, Cincinnati, O.
 Nolte Brass Co. (Brass & Soldering), Springfield, O.
 Ohio Brass Co., Mansfield, O.
 Pancoast, Henry B. & Co. ("American"), 243 S 3d, Philadelphia, Pa.
 Pittsburg Brass Mfg. Co. (Brass, Extra Heavy), Penn av & 32d, Pittsburg, Pa.

Technically Correct IN EVERY DETAIL

THE Oliver Typewriter is the highest embodiment of mechanical excellence in a Visible Writing Machine. It is so *minutely perfect* that it will write on a postage stamp—so *comprehensive* in its scope that it adapts itself to every writing requirement of the business world.

In the vital essentials of Visibility, Accuracy, Speed, Legibility, Perfect Alignment, Powerful Manifolding, Durability and Ease of Operation,

The
OLIVER
 Typewriter



The Standard Visible Writer stands first. We can give profitable employment to several young men as Local Agents for the Oliver. If open for engagement, get in touch with this office at once.

THE OLIVER TYPEWRITER COMPANY, 310 Broadway, New York City, N. Y.
 PRINCIPAL FOREIGN OFFICE, 75 QUEEN VICTORIA STREET, LONDON.

Pleuger & Henger Mfg. Co., 11th & Hebert, St. Louis, Mo.
 Powell, Wm. Co. (Brass), Cincinnati, O.
 Queen City Brass & Iron Works (Brass, Soldering, etc.), Cincinnati, O.
 Safety Meter Lock Co., Columbus, O.
 Tight Joint Co. ("Tight-Joint" Flanged, for High Pressure), 306 B 47th, New York
 Western Tube Co. ("Kewanee," Male & Female, Brass & Malleable Iron), Kewanee, Ill.
WILLIAMS, D. T. VALVE CO., 904
 B'way, Cincinnati, O. (See adv. index & branch offices, end of book)
 Williams, Franklin ("Tuxedo," Bronze for High Pressure), 39 Cortlandt, New York

*Unions (Brass, Brazing & Flange)

LUNKENHEIMER CO., General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)
WILLIAMS, D. T. VALVE CO., 904
 B'way, Cincinnati, O. (See adv. index & branch offices, end of book)

Unions & Nipples (Soldering)

Blatchford, E. W. Co., 70 N Clinton, Chicago, Ill.
 Buckeye Iron & Brass Wks., Dayton, O.
 Campbell, J. B. Brass Works, Erie, Pa.
 Cleveland Bronze & Brass Works ("Lyons," Brass), Cleveland, O.
 Clum & Atkinson, Rochester, N. Y.
 Columbus Brass Co., Columbus, O.
 Eagle Brass Works, Detroit, Mich.
 Elkhart Brass Mfg. Co., Elkhart, Ind.
 Glauber Brass Mfg. Co., Cleveland, O.
 Haines, Jones & Cadbury, 1136 Ridge av., Phila., Pa.
 Jefferson Mfg. Co., Lexington, Mass.
 Mueller, H. Mfg. Co., Decatur, Ill.
 Nolte Brass Co., Springfield, O.
 Queen City Brass & Iron Works, Cincinnati, O.
 Sanitary Co., 306 Prospect, Cleveland, O.
 Savill, Thos. & Sons, 11th & Wood, Phila., Pa.
 Springfield Brass Co., Springfield, O.
 Warren Brass Co., Warren, O.
 Western Tube Co., Kewanee, Ill.
WILLIAMS, D. T. VALVE CO., 904
 B'way, Cincinnati, O. (See adv. index & branch offices, end of book)
 Wolverine Brass Works, Grand Rapids, Mich.

*Unit Group System of Multiple Control

WESTINGHOUSE ELECTRIC & MFG. Co., Pittsburg, Pa. (See adv. index & branch offices, end of book)

Universal Joints

(See Joints, Universal)

Unloaders (Ballast)

(See Ballast Unloaders.)

Unloaders (Sugar Cane Car)

Gregg Company (Ltd.), Newburgh, N. Y.

Upsetters (Tire)

Buffalo Forge Co., Buffalo, N. Y.
 Comstock, Geo. S. ("Comstock" Fire & Axle Shriner), Mechanicsburg, Pa.
 Fulton Iron Works (Stoddard's), Detroit, Mich.
 Illinois Iron & Bolt Co., Carpentersville, Ill.
 Wiley & Russel Mfg. Co. (Green River Stile), Greenfield, Mass.

Urinal Stalls (Porcelain)

Mott, J. L. Iron Works (Imperial), 118 5th av., New York

*Vacuum Pan Appliances

SCHAEFFER & BUDENBERG MFG. Co., Foxboro, Mass. (See adv. index & branch offices, end of book)

Vacuum Sweeping & Cleaning System

Huber, Henry Co., 244 5th av., New York
GENERAL COMPRESSED AIR AND Vacuum Machinery Co., 4469 Olive, St. Louis, Mo. (See adv. index, end of book)
ORGAN POWER CO., Hartford, Conn. (See adv. index, end of book)
 Spencer Suction Cleaner Co., Hartford, Conn.
VACUUM CLEANER CO. ("Kenney"), 427 5th av., New York. (See adv. index, end of book)

Valve Balls (Rubber)

BOSTON BELTING CO., 260 Devon-shire, Boston, Mass., & 100 Reade, N. Y. (See adv. index & branch offices, end of book)
 Cleveland Rubber Co., Cleveland, O.
 Continental Rubber Works, Erie, Pa.
 Diamond Rubber Co., Akron, Ohio
 Goodrich, B. F. Co., Akron, O.
 Manhattan Rubber Mfg. Co., 126 Duane, N. Y., & 96 Lake, Chicago, Ill.
 Mechanical Rubber Co., 91 Chambers, N. Y.
 Morgan & Wright (Inc.), 226 Jefferson av., Detroit, Mich.
 National India Rubber Co., Bristol, Conn.
 New York Belting & Packing Co. (Ltd.), 91 Chambers, N. Y.
 New York Rubber Co., 84 Reade, N. Y.
 Peerless Rubber Mfg. Co., 16 Warren, N. Y.
 Republic Rubber Co., Youngstown, O.
 Revere Rubber Co., 63 Franklin, Boston, Mass.

*Valve Bodies

BETHLEHEM FOUNDRY & MACHINE Co. (Large Cast Iron Rough or Finished), Front st., South Bethlehem, Pa., & 149 B'way, New York. (See adv. index, end of book)

*Valve Cups (Leather)

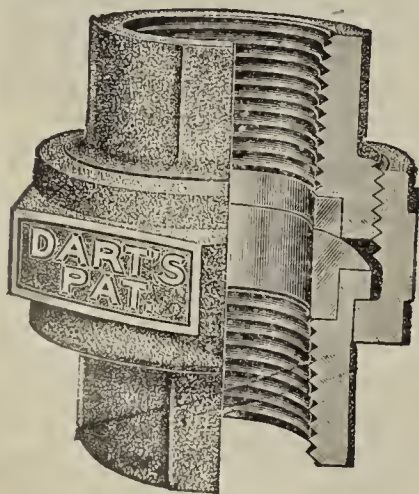
PITTSBURG VALVE, FOUNDRY & Construction Co., 26th & A. V. Ry., Pittsburg, Pa. (See adv. index, end of book)
 Whittlesey, H. E. & Sons, Corry, Pa.

Valve Mfrs. for Steam, Gas & Water

(For Jobbers of these Goods See Plumbers Supplies, Jobbers.)
 (Also Steam Fitters Supplies and Specialties, Jobbers.)

(For Various Kinds of Valves See Sub-Classifications Following This List.)

Acton, John, 118 John, Brooklyn, N. Y.
 Albany Steam Trap Co., 60 Church, Albany, N. Y.
 All Metal Valve Co., 136 Liberty, New York
 Alpena Industrial Works (Lewis T. Cline, Prop.), Alpena, Mich.
 American Balance Valve Co., 124 New Montgomery, San Francisco, Cal.; Eastern Office & Works, Jersey Shore, Pa.
 American District Steam Co., Lockport, N. Y.
 American Radiator Co., c Lake & Dearborn, Chicago, Ill.
 American Steam Gauge & Valve Mfg. Co., 208 Camden, Boston, Mass.
 American Valve Co., Coxackie, N. Y.
 American Valve & Meter Co., 1119 Gest, Cincinnati, O.
AMERICAN WELL WORKS, Aurora, Ill. (See adv. index, & branch offices, end of book)
AMSLER ENGINEERING CO., Diamond Bank bldg., Pittsburg, Pa. (See adv. index & branch offices, end of book)
 Ardkins, Young & Allen Co. ("Erwood"), 14 N Canal, Chicago, Ill.
 Argon Mfg. Co., 1730 Wazee, Denver, Col.
 Ashton Valve Co., 271 Franklin, Boston, Mass.
 Atwood & Morrill, Salem, Mass.
 Bashlin Co., Warren, Pa.
 Beaumont, Richard, Kankakee, Ill.
 Belfield, H. & Co., 435 N. Broad, Phila., Pa.
 Belknap Mfg. Co., Bridgeport, Conn.
 Best Mfg. Co., 25th & A. V. Ry., Pittsburg, Pa.
 Bordo, L. J. Co. (Inc.), 12th & Thompson, Phila., Pa.
 Boston Brass Co., 36 Oliver, Boston, Mass.
 Bourbon Copper & Brass Works, 618 E. Front, Cincinnati, O.
 Buckeye Iron & Brass Works, Dayton, O.
 Burlington Brass Works ("Kant"), Burlington, Wis.
 Burrows Mfg. Co., York, Pa.
 Burton & Johnson, 107 W Center, Cleveland, O.
 Cadman, A. W. Mfg. Co., 2814 Smallman, Pittsburg, Pa.
 Caldwell, W. E. Co., Louisville, Ky.
 Capital Brass Works, Detroit, Mich.
 Cayuta Mfg. Co., Sayre, Pa.
 Central Brass Works, 322 W Pearl, Cincinnati, Ohio
 Chapman Valve Mfg. Co., Indian Orchard, Mass.
 Chicago Air & Water Valve Co., (Automatic Air), 33 S. Canal, Chicago, Ill.
 Coale Muffler & Safety Valve Co., Calvert bldg., Baltimore, Md.
 Coffin Valve Co., Neponset, Boston, Mass.
 Coldwell-Wilcox Co., Newburgh, N. Y.
 Columbus Brass Co., Columbus, O.
CONSOLIDATED SAFETY VALVE Co., The, 85, 87, 89 Liberty, New York, & 22, 24, 26 S Canal, Chicago, Ill. Works, Bridgeport, Conn. See adv. index, end of book



DART PATENT UNIONS AND FLANGES

HAVE A HIGH STANDING

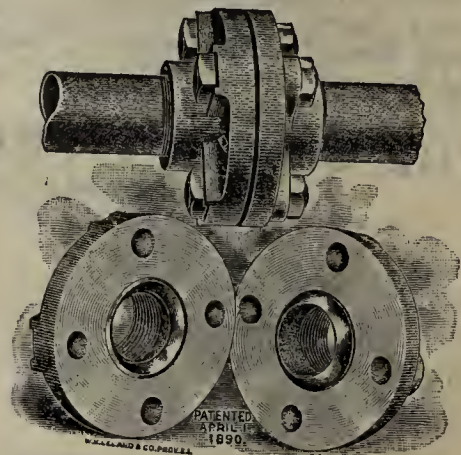
GIVE THEM A TRIAL AND BE CONVINCED OF THEIR MERIT

SEND FOR SAMPLE

E. M. DART MFG. CO.

136 Clifford St.

Providence, R. I.



IS YOUR BUILDING EQUIPPED WITH A Mechanical Cleaning System?

Vacuum and Compressed Air Cleaning Systems are in use all over the World.

It is no longer an experiment, but a necessity.

There was a time — not so long since either, when people were contented with tallow candles. Plumbing was unknown, in the modern sense, and ventilation was the cause of very little worry. Now these questions receive almost as much consideration as the building itself.

The one most expensive and important item of building management is cleaning. It is by far the most troublesome too — that is, with the old style methods of doing this work. Only during the last few years has this subject been given the attention it deserves.

Mechanical cleaning is to the broom and duster what electricity is to the candle. It is being universally adopted. Let us tell you why you should install a plant in your home or building.

THE 20th CENTURY METHOD

Dust causes more deterioration and wear than any other one thing we have to contend with. It is also the most prolific disease breeder known. *Mechanical Cleaning* will extract every particle of grit and dust from carpets, rugs, upholstered furniture, draperies, bedding, or in fact, anything in or on which it may accumulate.

The main cause of floor coverings wearing out quickly is the sharp grit that becomes matted under the nap and cuts the fibres. Air is the only cleaning agency that will remove this grit.

It is almost impossible to keep a building in a sanitary condition by any other means. The carpets serve as a receptacle for filth and germs that are carried into the house on people's shoes and often serve as an ideal place for multiplication.



SHOWING RESIDENTIAL PLANT IN OPERATION

Our plants do their work thoroughly, quickly and without bother or noise. The quality of the apparatus is of the highest and our prices are very reasonable. We make various equipments for buildings of different sorts and ask you to allow us to make an estimate covering your particular needs. When writing please state power available. If electricity, voltage, direct or alternating current and phase.

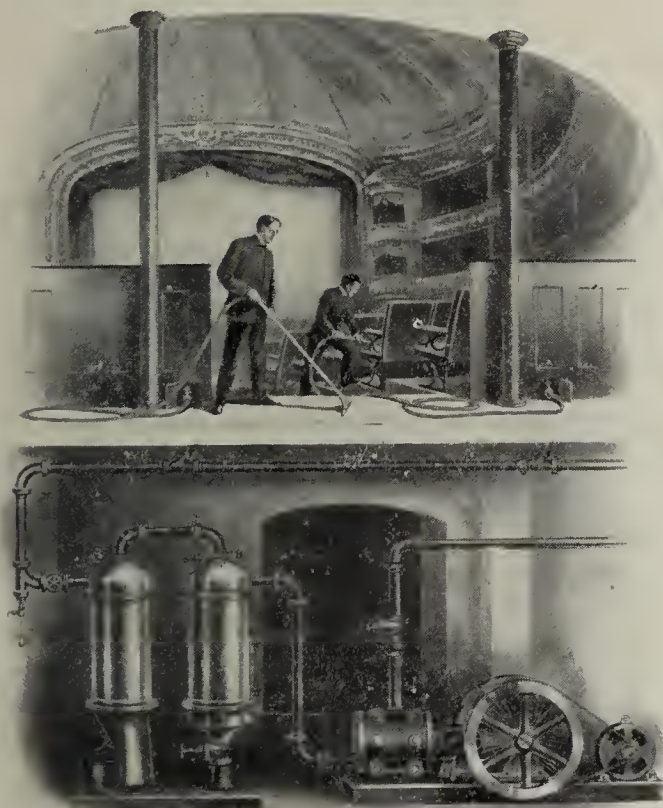
Catalogue will be sent on request

REPRESENTATIVE INSTALLATIONS

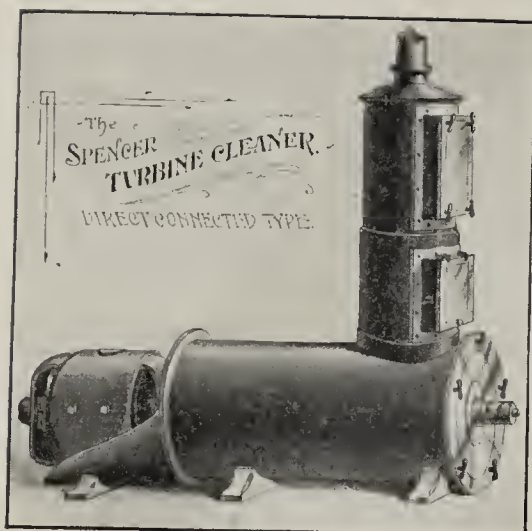
AMERICAN NATIONAL BANK, Indianapolis, Ind.
NEW HOTEL ASTOR, New York City.
GRAND PACIFIC HOTEL, Chicago, Ill.
HOTEL BRISTOL, Berlin, Germany.
THE GORDAN HOTELS throughout England.
CHANCELLOR HOTEL, Parkersburg, W. Va.
COLISEUM, London, Eng.

General Compressed Air & Vacuum Machinery Co.

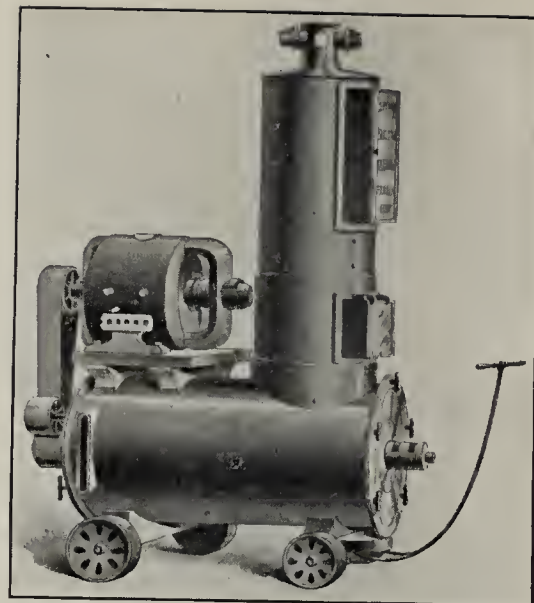
4469 OLIVE ST., ST. LOUIS, MO.



VACUUM PUMP SYSTEM
TYPE OF PLANT USED IN LARGE BUILDINGS



THE MOST EFFICIENT
**SUCTION
 CLEANING
 SYSTEM**
 IN THE WORLD.



PORTABLE CLEANER.

THE SPENCER TURBINE CLEANER

STRONGLY PATENTED

Does work that no other cleaner can; has no piston or valves; no complications or separate water tanks; will clean with wide tools taking up large pieces of rubbish; is equally efficient for factories or carpeted rooms.

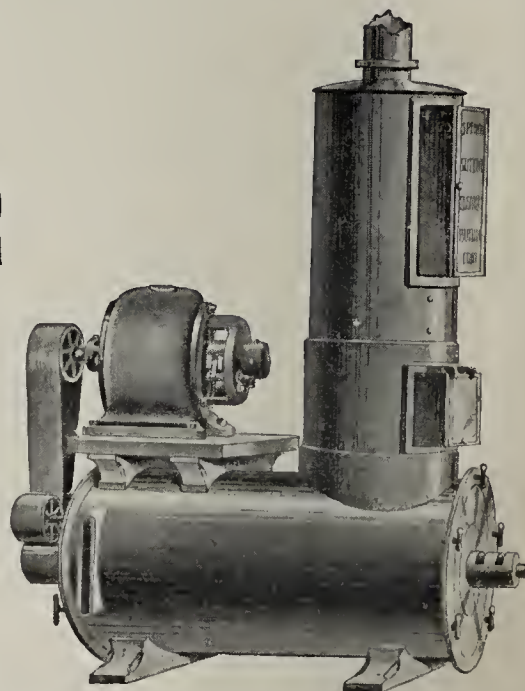
WRITE FOR BULLETIN

THE ORGAN POWER CO.
 HARTFORD, CONN.



ORGOBLO FOR ELECTRIC ORGAN BLOWING.

**SPENCER
 ORGAN
 MOTORS**



CLEANER FOR PERMANENT INSTALLATION.

CROSBY STEAM GAGE & VALVE

Co., 95 Oliver, Boston, Mass., & 16 Dey, New York. (See adv. index & branch offices, end of book)

Darling Pump & Mfg. Co., Williamsport, Pa.
Davidson, M. T., 43 Keap, Brooklyn, N. Y., & 141 B'way, New YorkDavls, Geo. M. Regulator Co., 144 Milwaukee, av, Chicago, Ill.
Davls, John Co., 69 Michigan, Chicago, Ill.D'Este, Julian Co., 24 Canal, Boston, Mass.
Detroit Heating & Lighting Co., Wight nr Leib, Detroit, Mich.Detroit Lubricator Co. ("Detroit"), Detroit, Mich.
Detroit Machine & Valve Co., Detroit, Mich.

Dorn & Marcellus Co., York & Mascher, Philadelphia, Pa.

Draper Mfg. Co., Port Huron, Mich.
Eastwood Wire Mfg. Co., Belleville, N. J.Eaton, Cole & Burnham Co., Bridgeport, Conn.
Eddy Valve Co., Waterford, N. Y.Engberg's Electric & Mechanical Works (Electro Hydraulic Valve), St. Joseph, Mich.
Evans Mfg. Co., Butler, Pa.Exeter Machine Works, Exeter, N. H.
Eynon-Evans Mfg. Co., 1519 Clearfield, Philadelphia, Pa.Farnan Brass Works, 25 Center, Cleveland, O.
Fewlass Brass & Iron Co., 456 E 2d, Cincinnati, O.Fisher Governor Co., Marshalltown, Ia.
Ford, Thos. P. Co., 407 Broome, N. Y.Forest City Brass Works, 90 Merwin, Cleveland, O.
Foster Engineering Co., 107 Monroe, Newark, N. J.Foster, F. W. Mfg. Co., 6 Portland, Boston, Mass.
French Oil Mill Machinery Co., Piqua, O.**GARDNER GOVERNOR CO., Quincy, Ill.**
(See adv. index, end of book)General Fire Extinguisher Co., Providence, R. I.
Glenn, C. C., 115 Fremont, Chicago, Ill.Globe Brass Co., 15 Macomb, Detroit, Mich.
Gold Car Heating & Lighting Co., 17 Battery pl, New YorkGriffing, A. A. Iron Co., Jersey City, N. J.
HANCOCK INSPIRATOR CO., THE

85, 87, 89 Liberty, New York. (See adv. index, end of book)

Harde-Tynes Foundry & Machine Co., Birmingham, Ala.
Harvey's, A. Sons Mfg. Co., 22 1st, Detroit, Mich.Hauck Mfg. Co., 322 W Pearl, Cincinnati, O.
Hayden, N. L. Mfg. Co. (Tippett Compact), Columbus, O.**HAYDEN & DERBY MFG. CO., THE**
85, 87, 89 Liberty, New York. Works: Watson, Mass. (See adv. index, end of book)Haydenville Co., Haydenville, Mass.
Hays Mfg. Co., Erie, Pa.Hermance Valve Co., Syracuse, N. Y.
Hills, Robt. E. & Co., 57 N Wells, Chicago, Ill.H. & M. Automatic Regulator Co., Newark, N. J.
H & M Valve Co., 25 Broad, New YorkHoffmann, B. Mfg. Co., 178 Becher, Milwaukee, Wis.
Hoffman-Billings Mfg. Co., 96 2d, Milwaukee, Wis.Homer Brass Works (Inc.), 231 Race, Philadelphia, Pa.
Homestead Valve Mfg. Co., Homestead, Pa.Huxley Valve Co., 145 Main, Buffalo, N. Y.
Ideal Mfg. Co., 546 Franklin, Detroit, Mich.

Illinois Malleable Iron Co., 30 W Monroe, Chicago, Ill.

Jarecki Mfg. Co., Erie, Pa., & Pittsburgh, Pa.
Jeukins Bros., 71 John, N. Y.; 35 High, Boston, Mass.**KELLOGG-MACKAY-CAMERON CO.,**
(Mfrs. & Jobbers), Michigan av & 12th, Chicago, Ill. (See adv. index & branch offices, end of book)Kelly & Jones Co., 135 Water, Pittsburgh, Pa.
Kendrick Valve & Washer Co., Syracuse, N. Y.

Keunedy Valve Mfg. Co., 57 Beekman, N. Y., & Cossackie, N. Y.

Keystone Brass Co., Erie, Pa.
Kieley & Mueller, 34 W 13th, N. Y.Kinsey & Mahler Co. ("K. & M."), Peoria, Ill.
Kirkup, Robt. & Co., 620 Lodge, Cincinnati, O.Klits Mfg. Co., Oswego, N. Y.
Klipfel Mfg. Co. ("K. & T."), 74 W. Lake, Chicago, Ill.Kunkle, E. B. & Co., Fort Wayne, Ind.
Lang, J. Electric Co., 176 E Indiana, Chicago, Ill.Lee Injector Mfg. Co., Detroit, Mich.
Libby Valve & Packing Co., 147 Varick, N. Y.

Liberty Mfg. Co., 6907 Susquehanna, Pittsburgh, Pa.

Lloyd Mfg. Co., Minneapolis, Minn.
Locke Regulator Co., Salem, Mass.Loetzer Valve & Mfg. Co., Towanda, Pa.
Loneragan, J. E. & Co., 211 Race, Philadelphia, Pa.Ludlow Valve Mfg. Co., Troy, N. Y.
LUNKENHEIMER CO. General Of-
fices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)McCambridge & Co., 527 Cherry, Philadelphia, Pa.
McCarthy, Felix, Pottstown, Pa.

McGowan, Jno. H. Co., 54 Central av, Cincinnati, O.

McNab & Harlin Mfg. Co., 56 John, N. Y.
McRae & Roberts Co., Detroit, Mich.Mackay Mfg. Co., Newark, N. J.
Marsh, Jas. P. & Co., 224 Washington, Chicago, Ill.Mason Regulator Co., 158 Summer, Boston, Mass.
Milwaukee Valve Co., Milwaukee, Wis.**MONARCH VALVE & MFG. CO., War-**
ran, Mass. (See adv. index, end of book)

Monash-Younger Co. (Steam & Water only), 203 S Canal, Chicago, Ill.

Mueller, H. Mfg. Co., Decatur, Ill.
Murray Automatic Boiler Feed Co. (Blower), 892 Scotten av, Detroit, Mich.Nason Mfg. Co., 71 Beekman, N. Y.
Nelson, Chas., 439 E 10th, N. Y.Nelson, N. O. Mfg. Co., Sth & St. Charles, St. Louis, Mo.
Nelson Valve Co., Wyndmoor, Pa.New Bedford Boiler & Machine Co., New Bedford, Mass.
Niagara Radiator Co., Buffalo, N. Y., & N. Tonawanda, N. Y.Nolte Brass Co. (A. B. Nolte, Prop.), Springfield, O.
Norwall Mfg. Co. ("Allen," Automatic Air), 154 Lake, Chicago, Ill.Ohio Brass Co., Mansfield, O.
OIL WELL SUPPLY CO. (Iron & Brass), 215 Water, Pittsburgh, Pa. (See adv. index, end of book)

Pearce, W. H. & Co. ("Crescent," Steam only), 269 Dearborn, Chicago, Ill.

Perkes, Chas., 623 Arch, Philadelphia, Pa.
Pierce, Butler & Pierce Mfg. Co., Syracuse, N. Y.Pioneer Brass Works, Indianapolis, Ind.
PITTSBURG VALVE, FOUNDRY & Construction Co., 26th & A. V. Ry., Pittsburgh, Pa. (See adv. index, end of book)Powell, Wm. Co., 2525 Spring Grove av, Cincinnati, O.
Powhatan Brass & Iron Works, Charlestown, W. Va.Pratt & Cady Co., Hartford, Conn.
Queen City Brass & Iron Works, Spring Grove & Garrard av, Cincinnati, O.Register's, J. Sons Co., Holliday & Saratoga, Baltimore, Md.
Reliance Engineering Co., Duluth, Minn.Rensselaer Mfg. Co., Troy, N. Y.
Ross Valve Co., Troy, N. Y.Rundle, Spence Mfg. Co., Milwaukee, Wis.
Safety Cylinder Valve Co., Mansfield, O.**SCHAEFFER & BUDENBERG MFG. CO.,**
Foxboro, Mass. (See adv. index & branch offices, end of book)

Schutte & Koertling Co., 1251 N 12th, Philadelphia, Pa.

Scott Valve Co., 231 Randolph, Chicago, Ill.
Sherwood Mfg. Co., Buffalo, N. Y.Smith, A. P. Mfg. Co., Newark, N. J.
Smith, H. B. Co., 133 Centre, N. Y., & Westfield, Mass.South Park Foundry & Machine Co., St. Paul, Minn.
Springfield Brass Co., Springfield, O.Standard Steam Specialty Co., 111 5th av, N. Y.
Stayman Mfg. Co. (Piston), 143 Liberty, N. Y.Star Brass Mfg. Co., 103 Dedham, Boston, Mass.
Stayman Mfg. Co. (Piston), 95 Liberty, N. Y.Stephens, Roe Mfg. Co., Detroit, Mich.
Sweet & Doyle Valve Co., Troy, N. Y., & 238 Franklin, Boston, Mass.Swift Lubricator Co., Elmira, N. Y.
Syracuse Faucet & Valve Co. ("No Packing"), Syracuse, N. Y.Thomas Brass & Iron Co., Waukegan, Ill.
Thompson, J. & Co., cor Van Horn & Sophia, Philadelphia, Pa.

Union Brass Works Co. (Soderlund Anti-Scalding Shower), 7 Sherman, Chas., Boston, Mass.

Union Water Meter Co., Worcester, Mass.
Utica Steam Gauge Mfg. Co., Frankfort, N. Y.Van Auker-Clevaue Co., Yonkers, N. Y.
Walworth Mfg. Co., 132 Federal, Boston, Mass.Watson & Daniels Co., 146 N 7th, Phila., Pa.
Western Tube Co. (Brass & Iron), Kewanee, Ill.**Valve Re-Seating Machines**

(See Machines, Valve Re-seating.)

Valve Seat-Milling Machines

(See Machinery, Valve Re-Seating.)

Valve Seats (Ball)Cassady-Fairbank Mfg. Co., 6106 La Salle, Chicago, Ill.
Darling Pump & Mfg. Co., Williamsport, Pa.***Valve Testing Device****WESTINGHOUSE AIR BRAKE CO.**
("Westinghouse" Portable Triple), Pittsburgh, Pa.**Valve Wheels**

Stiles, H. A. & Co. (Wood), 176 Federal, Boston, Mass.

Valve & Plug Testing*SIMMONS, JNO. CO. ("L. & K.")**
Valve & Plug, 106 Centre, New York. (See adv. index, end of book)**Valve & Service Boxes**

(See Boxes, Valve & Service.)

Valves (Acid)

Chapman Valve Mfg. Co., Indian Orchard, Mass.

Darling Pump & Mfg. Co., Williamsport, Pa.
Eastwood Wire Mfg. Co., Belleville, N. J.

Graham, Chas. Chemical Pottery Works (Stoneware), 986 Metropolitan av, Brooklyn, N. Y.

H. & M. Valve Co. ("H. & M." Automatic), 25 Broad, New York City

PITTSBURG VALVE, FOUNDRY & Construction Co., 26th & A. V. Ry., Pittsburgh, Pa. (See adv. index, end of book)Rensselaer Mfg. Co., Troy, N. Y.
Robertson, Jas. Mfg. Co., 14 S Hanover, Baltimore, Md.

Sweet & Doyle Valve Co., Troy, N. Y., & 238 Franklin, Boston, Mass.

Valves (Adams or Y)

Eaton, Cole & Burnham Co., Bridgeport, Conn.

WILLIAMS, D. T. VALVE CO., 904
B'way, Cincinnati, O. (See adv. index, end of book)**Valves (Air)**

All Metal Valve Co., 136 Liberty, New York

AMERICAN RADIATOR CO. (Auto-
matic, etc.). General Office, 282 Michigan av, Chicago, Ill. (See adv. index & branch offices, end of book)

American Steam Gauge & Valve Mfg. Co., 208 Camden, Boston, Mass.

Bashlin Co., Warren, Pa.
Belfield, H. & Co., 435 N Broad, Phila., Pa.Belknap Mfg. Co., Bridgeport, Conn.
Buckeye Iron & Brass Works, Dayton, O.Capital Brass Works (Radiator), Detroit, Mich.
Chapman Valve Mfg. Co., Indian Orchard, Mass.

Chicago Air & Water Valve Co. ("Chicago"), 31 S Canal, Chicago

Coffin Valve Co., Neponset, Boston, Mass.
Consolidated Engineering Co. ("Van Auker" Water Seal, Automatic), cor. Jackson & Canal, Chicago, Ill.

Crane Co. (Est. 1855), 519 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)

Darling Pump & Mfg. Co. (Ltd.), Williamsport, Pa.

Davis, Geo. M. Regulator Co. ("Victor"), 144 Milwaukee av, Chicago, Ill.

Detroit Heating & Lighting Co., Wight, nr Leib, Detroit, Mich.

Dunham, C. G. Co. ("Norwall"), Marshalltown, Pa.

Eagle Brass Works, Detroit, Mich.
Eddy Valve Co., Waterford, N. Y.

Exeter Machine Works, 32 Oliver, Boston, Mass., & Exeter, N. H.

Foster Engineering Co. (Air Reducing & Relief), Newark, N. J.

General Fire Extinguisher Co., Providence, R. I.
Gold Car Heating & Lighting Co., 17 Battery
pl, New York
Griffing, A. A. Iron Co. (Automatic, etc.), Jer-
sey City, N. J.
Harlem Mfg. Co. ("Omega," Automatic, etc.),
42 W 67th, New York
H. & M. Automatic Regulator Co., Newark,
N. J.
Hoffmann, B. Mfg. Co., 257 6th, Milwaukee,
Wis.
Hoffmann-Billings Mfg. Co., 178 Becher, Mil-
waukee, Wis.
Illinois Malleable Iron Co. (Automatic, etc.),
30 W Monroe, Chicago, Ill.
Jarecki Mfg. Co., Erie & Pittsburg, Pa.
Jenkins Bros. (Automatic, etc.), 71 John, New
York

KELLOGG-MACKAY-CAMERON CO.
("K. M. C." No. 6 L. No. 6), Michigan av
& 12th, Chicago, Ill. (See adv. index &
branch offices, end of book)

Kelly & Jones Co. (Compression & Lock Shield),
135 Water, Pittsburg, Pa.
Lawler Water Feed & Damper Regulator Co.
("Lawler" Automatic Floatless for Hot
Water Radiators), 473 W Broadway, New
York

Ludlow Valve Mfg. Co., Troy, N. Y.
LUNKENHEIMER CO. General Of-
fices & Works, Beekman & Waverly, Cin-
cinnatl, O. (See adv. index & branch of-
fices, end of book)

McLain, Frank C. Co. (Carbon), 264 4th av,
New York
McRae & Roberts Co., Detroit, Mich.
Mackay Mfg. Co. (Lock Shield), 66 James,
Newark, N. J.

Magee, Alonzo H. ("Jumbo"), 106 Beekman,
New York
Marsh, James P. Co. ("Acme," "Paul," "S."
& H. Special," "Illinois"), 224 Washing-
ton, Chicago, Ill.

MONARCH VALVE & MFG. CO., War-
ren, Mass. (See adv. index, end of book)
Monash-Younger Co. ("Perfect Duplex Mo-
nash"), 203 S Canal, Chicago, Ill.
National Steam Specialty Co. ("Economy" Rad-
iator), 230 E Washington, Chicago, Ill.
Niagara Radiator Co., Buffalo, N. Y. & N.
Tonawanda, N. Y.

Norwall Mfg. Co. ("Allen," "Norwall," Auto-
matic Non-Adjustable), 154 Lake, Chicago,
Ill.

Penn Engineering Co. ("Penn"), 312 Cherry,
Phila., Pa.
Pierce, Butler & Pierce Mfg. Co. ("Ameri-
can," "American, Jr.," "Royal," "Royal,
Jr."), Syracuse, N. Y.

Powell, Wm. Co., 2529 Spring Garden av, Cin-
cinnatl, O.
Quincy-Manchester-Sargent Co., Old Colony
Bldg., Chicago, Ill., & 114 Liberty, New
York

Rensselaer Mfg. Co., Troy, N. Y.
Roberts Brass Mfg. Co., 1409 Fort st., De-
troit, Mich.

SCHAEFFER & BUDENBERG MFG. CO.
(Radiator Air), Foxboro, Mass. (See adv.
index & branch offices, end of book)
Scott Valve Co. (Automatic, etc.), 231 Ran-
dolph, Chicago, Ill.

Smith, H. B. Co. ("Breckenridge"), 137 Cen-
tre, New York, & Westfield, Mass.
STANDARD GAUGE MFG. CO. (and
Automatic Radiator Air), Syracuse, N. Y.
(See adv. index, end of book)

Thompson, J. & Co. (Poppet), c Van Horn &
Sophia, Phila., Pa.
Van Auken-Clevauc (Syphon Automatic), Yon-
kers, N. Y.

Walworth Mfg. Co., 132 Federal, Boston, Mass.
Western Tube Co., Kewanee, Ill.

*Valves (Air Discharge, Pressed Steel)

PRESSED STEEL TANK CO. (For
Blowing Engines & Compressors), Milwau-
kee, Wis. (See adv. index, end of book)

Valves (Air, for Coal Mines)

Kelly & Jones Co., 135 Water, Pittsburg, Pa.

*Valves (Altitude)

GOLDEN-ANDERSON VALVE SPE-
cialty Co. ("Anderson"), Fulton bldg, Pitts-
burg, Pa. (See adv. index, end of book)

Valves (Ammonia)

Amerivan Valve Co., Cossackie, N. Y.
ARCTIC ICE MACHINE CO., Canton,
Ohio

Belfield, H. & Co., 435 N Broad, Phila., Pa.
Chapman Valve Mfg. Co., Indian Orchard,
Mass.

Darling Pump Mfg. Co., Williamsport, Pa.
Featherstone Foundry & Machine Co. (High
Grade Semi-Steel), 348 Halsted, Chicago,
Ill.

Great Lakes Engineering Works, Detroit,
Mich.

H. & M. Valve Co. ("H. & M.," Automatic),
25 Broad, N. Y. City
Kennedy Valve Mfg. Co., 57 Beekman, New
York, & Cossackie, N. Y.

Ludlow Valve Mfg. Co., Troy, N. Y.
MONARCH VALVE & MFG. CO., War-
ren, Mass. (See adv. index, end of book)

Sweet & Doyle Valve Co., Troy, N. Y. & 238
Franklin, Boston, Mass.

Triumph Ice Machine Co., 610 Baymiller, Cin-
cinnatl, O.

Vogt, Henry Machine Co., Louisville, Ky.
Wolf, Fred W. Co. (Angle, Check, Globe, Plug,
Expansion Gate & Steep Tank), 139 Rees,
Chicago, Ill.

Valves (Angle)

(See Valves, Globe & Angle.)

Valves (Anti-Freezing)

Zero Valve & Brass Mfg. Co., 417 Chicago,
Buffalo, N. Y.

Valves (Asbestos Packed)

Crane Co. (Est. 1855), 519 S Canal, Chicago,
Ill. (See adv. index & branch offices, end of
book)

Fairbanks Co., 186 Lafayette, New York
Pratt & Cady Co., Hartford, Conn.

Valves (Automatic Air)

(See Valves, Air.)

Valves (Back Pressure)

Acton, John, 118 John, Brooklyn, N. J.
Aller, A. (Mfrs.' Agt.) (Noiseless), 109 Liberty,
N. Y.

American District Steam Co., Lockport, N. Y.
Atwood & Morrill ("XX" Century), Salem,
Mass.

Belfield, H. & Co., 435 N Broad, Phila., Pa.
Belknap Mfg. Co., Bridgeport, Conn.

Best Mfg. Co., 25th & A. V. Ry., Pittsburg,
Pa.
Buckeye Iron & Brass Works, Dayton, O.

Burrows Mfg. Co., York, Pa.
Coldwell-Wilcox Co., Newburgh, N. Y.
Consolidated Engineering Co. ("Van Auken"),
cor. Jackson & Canal, Chicago, Ill.

Crane Co. (Est. 1855), 519 S Canal, Chicago, Ill.
(See adv. index & branch offices, end of
book)

Davis, Geo. M. Regulator Co., 144 Milwaukee
av, Chicago, Ill.

Davis, Jno. Co. (Eclipse), 22d & Halstead,
Chicago, Ill.

Eastwood Wire Mfg. Co., Belleville, N. J.
Eaton, Cole & Burnham Co., Bridgeport,
Conn.

Edwardsville Brass Co., Edwardsville, Ill.
Erwin & Welch (Air & Water), 35 S Canal,
Chicago, Ill.

Fairbanks Co. ("Pratt-Cady"), 186 Lafayette,
New York

Ford, Thomas P. Co., 407 Broome, N. Y.
Foster Engineering Co., 107 Monroe, Newark,
N. J.

General Fire Extinguisher Co., Providence, R. I.
Goodrich, Judson A. Co. (Mfrs.' Agts.), 105
Beekman, N. Y.

Hoffmann, B. Mfg. Co., 257 6th, Milwaukee, Wis.
Hoffmann-Billings Mfg. Co., 178 Becher, Mil-
waukee, Wis.

Hussey, McCann & Co., 87 Warren, N. Y.
Illinois Malleable Iron Co., 30 W Monroe, Chi-
cago, Ill.

Jenkins Bros. ("Excelsior"), 71 John, New
York

Kelly & Jones Co., 135 Water, Pittsburg, Pa.
Kleley & Mueller, 34 W 13th, N. Y.
Klipfel Mfg. Co. ("K. & T."), 74 W Lake,
Chicago, Ill.

Locke Regulator Co., Salem, Mass.
McGowan, John H. Co., 54 Central av, Cincin-
natl, O.

Milwaukee Valve Co. ("M"), Milwaukee, Wis.

PITTSBURG VALVE, FOUNDRY &
Construction Co., 26th & A. V. Ry., Pitts-
burg, Pa. (See adv. index, end of book)

Pratt & Cady Co., 556 Capitol, Hartford, Conn.
Reliance Engineering Co., Duluth, Minn.

Schutte & Koerting Co., 1251 N 12th, Phila.,
Pa.

Scott Valve Co., 231 Randolph, Chicago, Ill.
Standard Steam Specialty Co. ("Utility"), 542
W B'way, New York

Stephens, Roe Mfg. Co. ("Scott"), 1072 Mc-
Kinley av, Detroit, Mich.

Thomas Brass & Iron Co., Waukegon, Ill.
Van Auken-Clevauc Co. ("Clevauc"), Yonkers,
Western Tube Co., Kewanee, Ill.

WILLIAMS, D. T. VALVE CO., 904
B'way, New York. (See adv. index, end of
book)

Valves (Back Water & Sewer Gas)

Barrett, Jas., Mfg. Co., 211 Franklin, Boston,
Mass.

Robertson, John & Co. ("Pennies"), 127 Water,
Brooklyn, N. Y.

Valves (Balance)

Acton, John, 118 John, Brooklyn, N. Y.
American Balance Valve Co. (High Pressure),
124 New Montgomery, San Francisco,
Cal., & Jersey Shore, Pa.

AMERICAN WELL WORKS, Aurora,
Ill. (See adv. index & branch offices, end
of book)

Atwood & Morrill ("Lever"), Salem, Mass.
Belfield, H. & Co., 435 N Broad, Phila., Pa.

Buckeye Iron & Brass Works, Dayton, O.
Central Brass Works, 322 W Pearl, Cincin-
natl, O.

Crane Co. (Est. 1855), 519 S Canal, Chicago,
Ill. (See adv. index & branch offices, end
of book)

Creamer Steam Specialties Co. (Perfection), 123
Liberty, N. Y.

Davis, G. M. Regulator Co. (Steam, Air &
Water), 144 Milwaukee av, Chicago, Ill.

Dow, Geo. E. Pumping Engine Co., 179 1st,
San Francisco, Cal.

Ford, Thos. P. Co. (Tank), 407 Broome, New
York

Foster Engineering Co. (Lever), Newark, N. J.
GARDNER GOVERNOR CO., Quincy, Ill.
(See adv. index, end of book)

Glenn, C. C., 115 Fremont, Chicago, Ill.
Hammett, H. G., 476 8th, Troy, N. Y.

Harris, Arthur & Co. ("Harris"), 44 N Curtis,
Chicago, Ill.

Klipfel Mfg. Co. ("K. & T."), 74 W Lake,
Chicago, Ill.

Locke Regulator Co., Salem, Mass.
Mason Regulator Co., 158 Summer, Boston,
Mass.

PITTSBURG VALVE, FOUNDRY &
Construction Co., 26th & A. V. Ry., Pitts-
burg, Pa. (See adv. index, end of book)

Schutte & Koerting Co., 1251 N 12th, Phila.,
Pa.

Scott Valve Co., 231 Randolph, Chicago, Ill.
Stephens, Roe Mfg. Co., 1072 McKinley av,
Detroit, Mich.

Waters Governor Co., Everett, Mass.

*Valves (Balanced Lever)

GARDNER GOVERNOR CO. (For
Steam Pumps), Quincy, Ill. (See adv. index,
end of book)

PITTSBURG VALVE, FOUNDRY &
Construction Co., 26th & A. V. Ry., Pitts-
burg, Pa. (See adv. index, end of book)

*Valves (Ball)

Darling Pump & Mfg. Co., Williamsport, Pa.
WILLIAMS, D. T. VALVE CO., 904
B'way, New York. (See adv. index, end of
book)

*Valves (Blast Furnace)

PITTSBURG VALVE, FOUNDRY &
Construction Co., 26th & A. V. Ry., Pitts-
burg, Pa. (See adv. index, end of book)

Valves (Blast & Gas)

Best Mfg. Co., 25th & A. V. Ry., Pittsburg, Pa.
Chapman Valve Mfg. Co., Indian Orchard,
Mass.

Connersville Blower Co., Connersville, Ind.
Crane Co. (Est. 1855), 519 S Canal, Chicago, Ill.
(See adv. index & branch offices, end of book)



WHAT'S IN A NAME?

EVERYTHING THAT'S GOOD, IF IT'S

LUNKENHEIMER

AND ON SOME ENGINEERING APPLIANCE.

YOUR LOCAL DEALER
SHOULD CARRY
"LUNKENHEIMER"
GOODS IN STOCK,
IF NOT PLEASE
NOTIFY US.



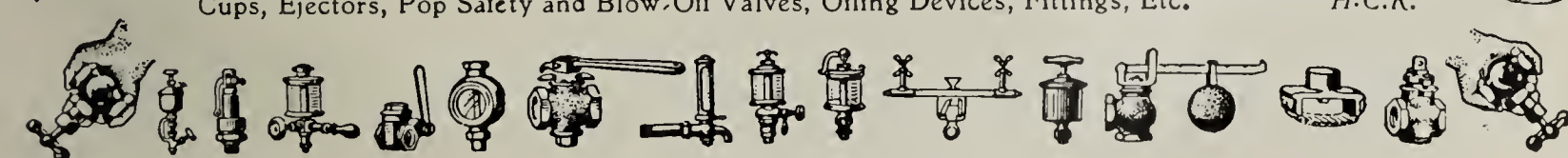
THE LUNKENHEIMER COMPANY


LARGEST MANUFACTURERS
OF HIGH GRADE ENGINEERING SPECIALTIES IN THE WORLD

General Offices and Works, CINCINNATI, O.

New York, 66 and 68 Fulton Street—BRANCHES—London, S. E. 35 Great Dover St.

We manufacture a complete line of Iron and Brass Globe and Gate Valves, Cocks, Injectors, Hydrostatic and Mechanical Lubricators, Whistles, Water Columns and Gauges, Oil and Grease Cups, Ejectors, Pop Safety and Blow-Off Valves, Oiling Devices, Fittings, Etc. H.C.R.





LABOR SAVING APPLIANCES, TOOLS^{and} SUPPLIES

We have the best facilities in this country for furnishing to our subscribers, free of charge, the names and addresses of the leading manufacturers of the latest improved machinery, tools and appliances etc., for working and handling all kinds of metal, wood, stone, slate, earth, minerals, etc., such as :

**Air, Gas and Gasoline Compressors
Cranes for all purposes
Pneumatic Tools and Appliances
Derricks, Hand or Power
Hoists, Hand or Power
Elevators, Electric, Hydraulic, etc.
Excavators and Dredges
Conveyors for all kinds of materials
Castings of all kinds
Steam Shovels
Machine or Hand Tools
Machinery for all Purposes
Engines for all Purposes
Electric Generators and Motors
Drills for all Purposes
Power Transmission
Agricultural Implements
Locomotives, Cars, etc.
Tools of Every Description.**

**Complete equipment for Railroad,
Machine Shop, Foundry, Mine, Quarry
Mill, Factory, Electric and Gas Light-
ing, etc., in fact everything wanted for
manufacturing plants or to carry out econ-
omically large contracts.**

**S. E. HENDRICKS CO.,
74 Lafayette St., New York**



MONARCH VALVE & MFG. CO., War-
ren, Mass. (See adv. index, end of book)
PITTSBURG VALVE, FOUNDRY &
Construction Co., 26th & A. V. Ry, Pitts-
burg, Pa. (See adv. index, end of book)
Roots, P. H. & F. M. Co., Connerville, Ind.
Welmer Machine Works Co., Lebanon, Pa.

*Valves (Blind)

AMERICAN WELL WORKS, Aurora,
Ill. (See adv. index & branch offices, end
of book)

Valves (Blow-off)

Bashlin Co., Warren, Pa.
Belfield, M. & Co., 435 N. Broad, Phila., Pa.
Best Mfg. Co. ("Myers," "Heston"), 25th &
A. V. Ry, Pittsburg, Pa.
Bonner, Wm. T. Co. ("Freeport"), 246 Sum-
mer, Boston, Mass.
Bordo, L. J. Co. (Inc.), (for Locomotives), 12th
& Thompson, Phila., Pa.
Buckeye Iron & Brass Works, Dayton, O.
Cadman, A. W. Mfg. Co. (High Pressure), etc.),
2814 Smallman, Pittsburg, Pa.
Chapman Valve Mfg. Co., Indian Orchard,
Mass.
Craue Co. (Est. 1855), 519 S Canal, Chicago, Ill.
(See adv. index & branch offices, end of book)
CROSBY STEAM GAGE & VALVE
Co., 95 Oliver, Boston, Mass.; 16 Dey,
New York. (See adv. index, end of book)
Darling Pump & Mfg. Co. (Ltd.), Williamsport,
Pa.

Davis, John Co. (Eclipse), 22d & Halstead,
Chicago, Ill.
Eastwood Wire Mfg. Co. (For Digesters, etc.),
Belleville, N. J.
Eynon-Evans Mfg. Co., 1519 Clearfield, Phila.,
Pa., & 107 Liberty, N. Y.
Fairbanks Co. ("Pratt-Cady"), 416 Broome,
New York
GOLDEN-ANDERSON VALVE SPE-
cialty Co. ("Golden"), Fulton bldg, Pitts-
burg, Pa. (See adv. on following page)
Hoffmann, B., Mfg. Co., 257 6th, Milwaukee,
Wis.

Hoffman-Billings Mfg. Co., 178 Beeher, Mil-
waukee, Wis.
Homestead Valve Mfg. Co., Homestead, Pa.
Huxley Valve Co. ("Huxley" Ball Lock), 145
Main, Buffalo, N. Y.

Jenkins Bros., 71 John, N. Y.
Jerguson Mfg. Co. ("Freeport"), 221 Columbus
av, Boston, Mass.
Kelly & Jones Co., 135 Water, Pittsburg, Pa.
Liberty Mfg. Co. ("Faber," Self-Cleaning),
6907 Susquehanna, Pittsburg, Pa.
Lloyd Mfg. Co. ("R. C."), Minneapolis, Minn.
LUNKENHEIMER CO. ("Duro" Locomo-
tive Angle), General Offices & Works, Beek-
man & Waverly, Cincinnati, Ohio. (See adv.
index & branch offices, end of book)
MONARCH VALVE & MFG. CO., War-
ren, Mass. (See adv. index, end of book)
National Supply Co. ("Shaw"), Toledo, O.

PITTSBURG VALVE, FOUNDRY &
Construction Co., 26th & A. V. Ry, Pitts-
burg, Pa. (See adv. index, end of book)
Powell, Wm. Co., 2525 Spring Grove av, Cin-
cinnati, O.

Queen City Brass & Iron Works (Hesterberg),
Spring Grove & Girard ave, Cincinnati, O.
Schutte & Koerting Co., 1251 N 12th, Phila.,
Pa.

Watson & McDaniel Co. ("Jennings"), 146 N.
7th, Philadelphia, Pa.

Wickes Bros., Saginaw, Mich.
WILLIAMS, D. T. VALVE CO., 904
B'way, New York. (See adv. index, end of
Williams Gauge Co., Pittsburg, Pa. book)

Valves (Boiler Feed)

AMERICAN MACHINERY CO., THE
Inc. (Automatic), 1135 B'way, New York,
N. Y. (See adv. index, end of book)
GOLDEN-ANDERSON VALVE SPE-
cialty Co. ("Anderson" Cusbloned Check),
Fulton bldg, Pittsburg, Pa. (See adv. on
following page)

Knapp Bros. Mfg. Co. ("Knapp's" Auto-
matic), 123 Franklin, Chicago, Ill.
PITTSBURG VALVE, FOUNDRY &
Construction Co., 26th & A. V. Ry, Pitts-
burg, Pa. (See adv. index, end of book)

WILLIAMS, D. T. VALVE CO., 904
B'way, New York. (See adv. index, end of
book)

Valves (Boiler Stop)

Darling Pump & Mfg. Co., Williamsport, Pa.
GOLDEN-ANDERSON VALVE SPE-
cialty Co. ("Anderson"), Fulton bldg, Pitts-
burg, Pa. (See adv. on following page)
New Bedford Boiler & Machine Co., New Bed-
ford, Mass.

PITTSBURG VALVE, FOUNDRY &
Construction Co., 26th & A. V. Ry, Pitts-
burg, Pa. (See adv. index, end of book)
H. & M. Valve Co. ("H. & M." Automatic),
25 B'way, New York, N. Y.

Valves (Butterfly)

Best Mfg. Co., 25th & A. V. Ry, Pittsburg, Pa.
Buckeye Iron & Brass Works, Dayton, O.

LUNKENHEIMER CO., General Of-
fices & Works, Beekman & Waverly, Cin-
cinnati, O. (See adv. index & branch of-
fices, end of book)

PITTSBURG VALVE, FOUNDRY &
Construction Co., 26th & A. V. Ry, Pitts-
burg, Pa. (See adv. index, end of book)

Valves (Check)

Albany Steam Trap Co., Albany, N. Y.
American Valve Co., Cossackie, N. Y.
American Valve & Meter Co., 1119 Gest, Cin-
cinnati, O.
Bashlin Co., Warren, Pa.
Belfield, H. & Co., 435 N Broad, Phila., Pa.
Belknap Mfg. Co., Bridgeport, Conn.
Best Mfg. Co. ("Climax"), 25th & A. V. Ry,
Pittsburg, Pa.

Buckeye Iron & Brass Works, Dayton, O.
Cahill, Swift Mfg. Co., 20 S 12th, St. Louis, Mo.
Central Brass Works, 322 W Pearl, Cincin-
nati, O.

Chapman Valve Mfg. Co., Indian Orchard,
Mass.

Coffin Valve Co., Neponset, Boston, Mass.
Coldwell-Wilcox Co., Newburg, N. Y.

Crane Co. (Est. 1855), 519 S Canal, Chicago, Ill.
(See adv. index & branch offices, end of book)
CROSBY STEAM GAGE & VALVE
Co., 95 Oliver, Boston, Mass. (See adv.
index & branch offices, end of book)

Darling Pump & Mfg. Co. (Ltd.), Williamsport,
Pa.

Davis, G. M. Regulator Co. (Auto), 144 Mil-
waukee av, Chicago, Ill.

Detroit Brass Wks., 1304 Brooklyn av, Detroit,
Mich.

Detroit Lubricator Co., Lincoln av & R. Rd.,
Detroit, Mich.

Draper Mfg. Co. (Ball Check), Port Huron,
Mich.

Eastwood Wire Mfg. Co. (Regrinding), Belle-
ville, N. J.

Eaton, Cole & Burnham Co., Bridgeport,
Conn.

Eddy Valve Co., Waterford, N. Y.
Evans Mfg. Co., Butler, Pa.

Eynon-Evans Mfg. Co. (Extra Heavy), 1509
Clearfield, Phila., Pa.

Fairbanks Co. ("Pratt-Cady"), 186 Lafayette,
New York

Fewlass-Leen Brass & Iron Co., 456 E 2d, Cin-
cinnati, O.

Forest City Brass Works, Cleveland, O.

Foster Engineering Co., 107 Monroe, Newark,
N. J.

French Oil Mill Machinery Co., Piqua, O.
General Fire Extinguisher Co., Providence, R. I.

GOLDEN-ANDERSON VALVE SPE-
cialty Co., Fulton bldg., Pittsburg, Pa.
(See adv. on following page)

Glenn, C. C., 115 Fremont, Chicago, Ill.

Haines, Jones & Cadbury Co., 1140 Ridge av,
Phila., Pa.

HANCOCK INSPIRATOR CO., THE,
85, 87, 89 Liberty, New York. (See adv.
index & branch offices, end of book)

HAYDEN & DERBY MFG. CO., THE
Y., & 22, 24, 26 S Canal, Chicago, Ill.
Works, 1 Watson, Boston, Mass. (See adv.
index & branch offices, end of book)

Haydenville Co., Haydenville, Mass.
Hennebelle, Frank (Automatic), Chicago &
Erie avs, So. Chicago, Ill.

Hoffmann, B. Mfg. Co., 257 6th, Milwaukee,
Wis.

Hoffmann-Billings Mfg. Co., 178 Beeher, Mil-
waukee, Wis.

Homer Brass Works (Inc.), 231 Race, Phila.,
Pa.

Ideal Mfg. Co., 546 Franklin, Detroit, Mich.

Illinois Malleable Iron Co., 30 W Monroe, Chi-
cago, Ill.

Jarecki Mfg. Co., Erie & Pittsburg, Pa.

Jenkins Bros., 71 John, N. Y.; 35 High, Bos-
ton, Mass.

Kelly & Jones Co., 135 Water, Pittsburg, Pa.

Kennedy Valve Mfg. Co. (Swinging), 57 Beek-
man, New York & Cossackie, N. Y.

Kinsey & Mahler Co. ("K. & M."), Peoria,
Ill.

Lee Mfg. Co. ("Lee" Ball), So. Park, Port
Huron, Mich.

Libby Valve & Packing Co., 147 Varick, New
Locke Regulator Co., Salem, Mass.

Loetzer Valve & Mfg. Co. ("Loetzer-Dual"),
Towanda, Pa.

Loneragan, J. E. & Co., 211 Race, Phila., Pa.

Ludiow Valve Mfg. Co., Troy, N. Y.

LUNKENHEIMER CO., General Offices &
Works, Beekman & Waverly, Cincinnati, O.
(See adv. index & branch offices, end of book)

McDonald, A. Y., & Morrison Mfg. Co., Du-
buque, Ia.

McMann & Taylor ("Acorn"), 104 John, New
York

McNab & Harlan Mfg. Co., 56 John, New York

Milwaukee Valve Co. ("M"), Milwaukee, Wis.

Morgan Engineering Co., Alliance, O.

Mueller Mfg. Co., Decatur, Ill.

Nelson, Chas., 439 E 10th, New York

Nelson, N. O. Mfg. Co. ("Reid"), 8th & St.
Charles, St. Louis, Mo.

New Bedford Boiler & Machine Co., New Bed-
ford, Mass.

Nolte Brass Co., Springfield, O.

Ohio Brass Co., Mansfield, O.

OIL WELL SUPPLY CO., 215 Water,
Pittsburg, Pa. (See adv. index, end of book)

Peck Bros. Co., 125 Chestnut, New Haven,
Conn. (See adv. index, end of book)

Pittsburg Valve & Fittings Co., Frick bldg.,
Pittsburg, Pa.

PITTSBURG VALVE, FOUNDRY &
Construction Co., 26th & A. V. Ry, Pitts-
burg, Pa. (See adv. index, end of book)

Powell, Wm. Co. ("Star," "Crescent"), 2529
Spring Grove av, Cincinnati, O.

Queen City Brass & Iron Works, Spring Grove
& Garrard avs, Cincinnati, O.

Register's, J. Sons Co., Holliday & Saratoga,
Baltimore, Md.

Rensselaer Mfg. Co., Troy, N. Y.

Rundle-Spencer Mfg. Co., 63 2d, Milwaukee,
Wis.

Schutte & Koerting Co. (and Auto Stop
Check), 1251 N 12th, Phila., Pa.

Scott Valve Co., 231 Randolph, Chicago, Ill.

Seoville Check Valve Co., Ashtabula, O.

Springfield Brass Co., Springfield, O.

Stephens, Roe Mfg. Co. ("Flower," "Scott,"
"Rouse"), Detroit, Mich.

Thomas Brass & Iron Co., Waukegan, Ill.

Thompson, J. & Co., cor Van Horn & Sopbia,
Philadelphia, Pa.

Walch & Wyeth, 87 E Lake, Chicago, Ill.

Walworth Mfg. Co., 132 Federal, Boston, Mass.

Western Tube Co., Kewanee, Ill.

WILLIAMS, D. T. VALVE CO., 904
B'way, Cincinnati, O. (See adv. index, end
of book)

*Valves (Chimney)

HARTMAN CO. (for Blast Furnace),
1231 N Front, Phila., Pa. (See adv. index,
end of book)

Valves (Chronometer)

Kelly & Jones Co. ("Empire"), 135 Water,
Pittsburg, Pa.

Scott Valve Co., 231 Randolph, Chicago, Ill.

Union Water Meter Co., 31 Herman, Worcester,
Mass.

Valves (Closet Flushing)

(See Valves, Flushing)

Valves (Coke Oven)

(See Valves, Gas & Coke Oven.)

Valves (Corner)

Buckeye Iron & Brass Wks., Dayton, O.

Kennedy Valve Mfg. Co. (Renewable Disc), 57
Beekman, New York, & Cossackie, N. Y.

LUNKENHEIMER CO., General Offices &
Works, Beekman & Waverly, Cincinnati,
O. (See adv. index & branch offices, end
of book)

*Valves (Critchlow)

MORGAN ENGINEERING CO., Alli-
ance, O. (See adv. index, end of book)

PITTSBURG VALVE, FOUNDRY &
Construction Co., 26th & A. V. Ry., Pitts-
burg, Pa. (See adv. index, end of book)

Valves (Cylinder Drain)

Swartz & Vandersloot ("Getty's" Automatic
Improved), York, Pa.

Valves (Exhaust)

Best Mfg. Co., 25th & A. V. Ry., Pittsburg, Pa.
Foster Engineering Co. (Free Exhaust), Newark, N. Y.

MEAD-MORRISON MFG. CO. ("Three-Way"), Cambridge, Boston, Mass., & 11 B'way, New York, N. Y. (See adv. index & branch offices, end of book)
PITTSBURG VALVE, FOUNDRY & CONSTRUCTION CO., 26th & A. V. Ry., Pittsburg, Pa. (See adv. index, end of book)

Valves (Fibre)

(See also Fibre Mfrs., Hard)

American Vulcanized Fibre Co. (Vulcanized), Wilmington, Del.
Delaware Hard Fibre Co., Wilmington, Del.
Diamond State Fibre Co., Elsmere, Del.
SPAULDING, J. & SONS CO., North Rochester, N. H. (See adv. index, end of book)

Valves (Fire Extinguisher)

MONARCH VALVE & MFG. CO., Warren, Mass. (See adv. index, end of book)
Walworth Mfg. Co., 132 Federal, Boston, Mass.

Valves (Float)

American Valve & Meter Co. ("Poage's"), 1119 Gest, Cincinnati, O.
Butler Co., Butler, Ind.
CALDWELL, W. E. CO., Brook & D., Louisville, Ky. (See adv. index, end of book)

Eddy Valve Co. (Automatic Balance), Waterford, N. Y.
FAIRBANKS, MORSE & CO., Franklin & Monroe, Chicago, Ill. (See adv. index & branch offices, end of book)

Foster Engineering Co. (Auxiliary & Direct Acting Type), Newark, N. J.
Foster, F. W. Mfg. Co. ("Nev-r-lek"), Boston, Mass.

GOLDEN-ANDERSON VALVE SPECIALTY CO. ("Anderson" Automatic), Fulton bldg., Pittsburg, Pa. (See adv. below)

Hayes Pump & Planter Co. (the Enterprise), Galva, Ill.

PITTSBURG VALVE, FOUNDRY & CONSTRUCTION CO., 26th & A. V. Ry., Pittsburg, Pa. (See adv. index, end of book)

SCHAEFFER & BUDENBERG MFG. CO. (For Reservoirs), Foxboro, Mass. (See adv. index & branch offices, end of book)

Valves (Flushing)

Albany Brass & Iron Co., Albany, N. Y.
American Pin Co. (Syphon), Waterbury, Conn.
Boston Brass Co., 36 Oliver, Boston, Mass.
Central Brass Works, 322 W Pearl, Cincinnati, O.
Columbus Brass Co., Columbus, O.
Cooper, Wm. S. Brass Works (Atavic), 437 N. 12th, Philadelphia, Pa.
Dalton-Ingersoll Co., 169 High, Boston, Mass.
Dececo Co. ("Carson N-B, 'D-C'"), 146 High, Boston, Mass.
Edwardsville Brass Co., Edwardsville, Ill.
Eljer Co., Newark, N. J.
Federal Co., Chicago, Ill.

Foster, F. W. Mfg. Co. ("Nev-R-Lek"), 6 Portland, Boston, Mass.
Haines, Jones & Cadbury Co., 1136 Ridge av., Philadelphia, Pa.
Haydenville Co., Haydenville, Mass., & 150 Nassau, New York
Heap, Wm. & Sons (Syphon), Grand Haven, Mich.
Hess, Chas. Co. ("Eljer" for Export), 129 Front, N. Y. City
Homer Brass Works (Inc.), 231 Race, Philadelphia, Pa.

Humphreys Mfg. Co., Mansfield, O.
Ideal Mfg. Co., 546 Franklin, Detroit, Mich.
Jenkins Mfg. Co. ("Novio"), Bloomfield, N. J.
Keystone Sanitary Supply Co. ("Dr. Isago's"), Pittsburg, Pa.

Lipp, Louis Co., Mitchell av & B. & O. S. R. R. Tracks, Cincinnati, O., & 104 High, Boston, Mass.

McCambridge & Co., Phila., Pa.
McDonald & Morrison Mfg. Co., A. Y., Du- buque, Ia.
Mott, J. F. Iron Works, New York

Nelson, N. O. Mfg. Co., St. Louis, Mo.
Nethery Valve Co., Indianapolis, Ind.
Park & McKay Co., 55 Bagley av, Detroit, Mich.

Pfau Mfg. Co., Cincinnati, O.
Springfield Brass Co., Springfield, Mass.
Standard Sanitary Mfg. Co., Pittsburg, Pa.

Street & Kent Mfg. Co., 109 S Jefferson, Chicago, Ill.

Valves (Foot)

ABENDROTH & ROOT MFG. CO. (Galvanized Flanged), Newburg, N. Y. (See adv. index & branch offices, end of book)

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)

Belfield, H. & Co., 435 N Broad, Phila., Pa.
Best Mfg. Co., 25th & A. V. Ry., Pittsburg, Pa.

Billings & Hoffman Mfg. Co., Milwaukee, Wis.
Bourbon Copper & Brass Works, 618 E Front, Cincinnati, O.

Buckeye Iron & Bras Works, Dayton, O.
Coffin Valve Co., Neponset, Boston, Mass.
Crane Co. (Est. 1855) 519 S Canal, Chicago, Ill. (See adv. index, end of book)

Darling Pump Mfg. Co., Williamsport, Pa.
Eastwood Wire Mfg. Co., Belleville, N. J.
Eaton, Cole & Burnham Co., Bridgeport, Conn.

Eddy Valve Co., Waterford, N. Y.
Hoffmann, B. Mfg. Co., 257 6th, Milwaukee, Wis.

Ill. Malleable Iron Co., 30 W Monroe, Chicago, Ill.
Kelly & Jones Co. (Iron), 135 Water, Pittsburg, Pa.

Lee Mfg. Co., So. Park, Port Huron, Mich.
LUNKENHEIMER CO., General Office & Works, Beckman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

Newman Mfg. Co. ("Newman" Continuous Service), 26 Cortlandt, New York
Pancoast, H. B. & Co. (Combined Foot Valve & Strainer), 243 S 3d, Phila., Pa.

PITTSBURG VALVE, FOUNDRY & CONSTRUCTION CO., 26th & A. V. Ry., Pittsburg, Pa. (See adv. index, end of book)

Stephens-Roe Mfg. Co. ("Flower"), Detroit, Mich.
Thompson, J. & Co., cor Van Horn & Sophia, Philadelphia, Pa.

Western Tube Co., Kewauuee, Ill.

Valves (Garbage)

Kennedy Valve Mfg. Co., 57 Beekman, New York, & Cossackie, N. Y.

Valves (Gas Log)

Eaton, Cole & Burnham Co. (Brass), Bridgeport, Conn.

Valves (Gas Main)

Bate, Wm. T. & Son, Conshohocken, Pa.

Beaumont, Richard, Kankakee, Ill.

Bowler Foundry Co., Cleveland, O.

Chapman Valve Mfg. Co., Indian Orchard, Mass.

Crane Co. (Est. 1855), (Iron & Brass), 519 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)

Darling Pump & Mfg. Co. (Ltd.), Williamsport, Pa.

Eaton, Cole & Burnham Co., Bridgeport, Conn.

Eddy Valve Co., Waterford, N. Y.

Gas Machinery Co., Citizens' bldg, Cleveland, O.

Hoffmann, B. Mfg. Co., 257 6th, Milwaukee, Wis.

Hoffmann-Bilings Mfg. Co., 178 Becher, Milwaukee, Wis.

Kennedy Valve Mfg. Co., 57 Beekman, New York, N. Y., & Cossackie, N. Y.

Kerr-Murray Mfg. Co., Fort Wayne, Ind.

Loetzer Valve & Mfg. Co. ("Loetzer Dual"), Towanda, Pa.

Ludlow Valve Mfg. Co., Troy, N. Y.

MONARCH VALVE & MFG. CO., Warren, Mass. (See adv. index, end of book)

PITTSBURG VALVE, FOUNDRY & CONSTRUCTION CO., 26th & A. V. Ry., Pittsburg, Pa. (See adv. index, end of book)

Rensselaer Mfg. Co., Troy, N. Y.

Roberts Brass Mfg. Co., Detroit, Mich.

Scott Valve Co., 231 Randolph, Chicago.

Stephens, Roe Mfg. Co., 1072 McKinley av, Detroit, Mich.

Sweet & Doyle Valve Co., Troy, N. Y., & 233 Franklin, Boston, Mass.

Thompson, J. & Co., Van Horn & Sophia, Phila., Pa.

Walworth Mfg. Co., 132 Federal, Boston, Mass.

Wood, R. D. & Co., 400 Chestnut, Phila., Pa.

Valves (Gas or Coke Oven)

Eaton, Cole & Burnham Co., Bridgeport, Conn.

Kennedy Valve Mfg. Co. (Light All Iron Gate with Steel Stem), 57 Beekman, New York, & Cossackie, N. Y.

McNab & Harlin Mfg. Co., 56 John, N. Y.

Pittsburg Brass Mfg. Co., Penna. av. & 32d, Pittsburg, Pa.

PITTSBURG VALVE, FOUNDRY & CONSTRUCTION CO., 26th & A. V. Ry., Pittsburg, Pa. (See adv. index, end of book)

WILLIAMS, D. T. VALVE CO., 904 B'way, Cincinnati, O. (See adv. index, end of book)

Valves (Gas, Siemen)

Velte Foundry & Machine Co., Home & A. V. R. R., Pittsburg, Pa.



Anderson

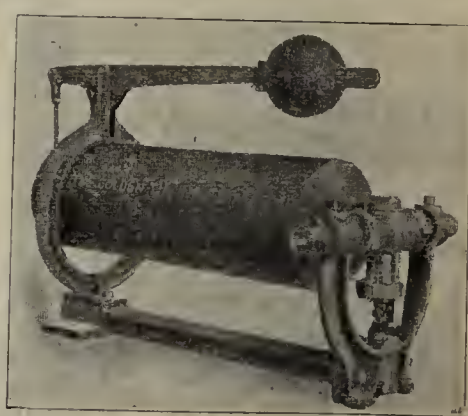
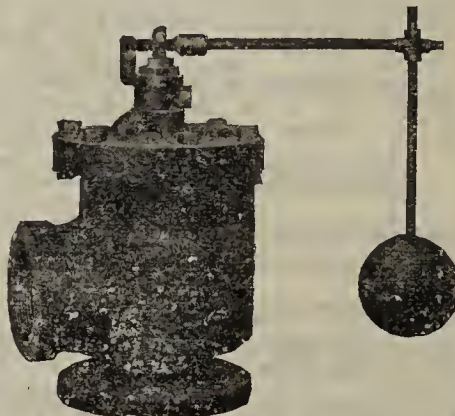
Cushioned Non-Return Valve.

Protect your boilers with an absolute safety stop.

They will automatically cut off a boiler in case of accident to the boiler, such as the bursting of a tube, and will also act as a **SAFETY** stop to prevent steam being turned into a cold boiler, which also means a safeguard for men working inside.

Is an **Automatic Stop Valve**, a **Hand Stop Valve**, all in one.

The Heaviest Line of Automatic Valves for Steam and Water Service Ever Presented to Users.



GOLDEN-ANDERSON VALVE SPECIALTY CO.

Offices: 1011 Fulton Bldg., Pittsburg, Pa.

No floats! no valves! inside of trap. All working parts outside. Simple, positive. We know these traps "have no equal."

VERSATILE WORKERS

IN PIPAGE EQUIPMENT

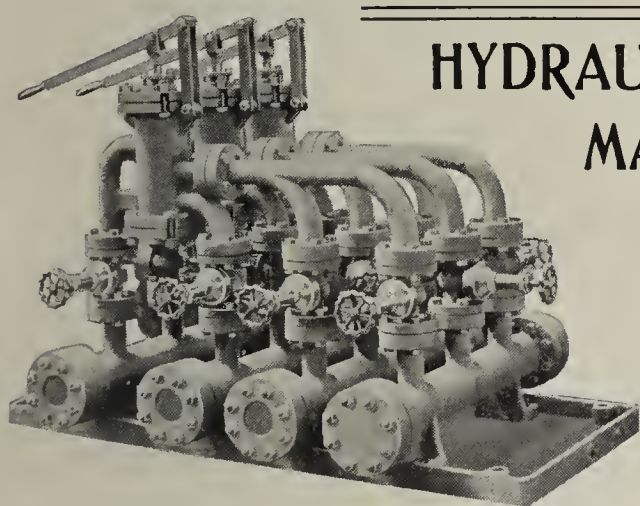
We are versatile, because we can turn to anything which good valve makers are expected to know.

From making the simplest valve to installing the most intricate equipment, perfection is our one absolute aim.

In pipe fitting our machinists know perfectly the "ins" and "outs," and in making estimates we are always prompt as well as reliable.

If you are having any trouble with your valves, or if your pipage equipment is not what you think it ought to be, we are sure we can help you.

Our catalogue, giving much valuable valve knowledge, will prove one of your best companions.



HYDRAULIC MANIFOLD

FOR
OPERATING
BLAST-
FURNACE
BELL.

TAPER- SEAT GATE VALVE

Designed for High
Pressure Steam Lines



Pittsburgh Valve Foundry & Construction Co.

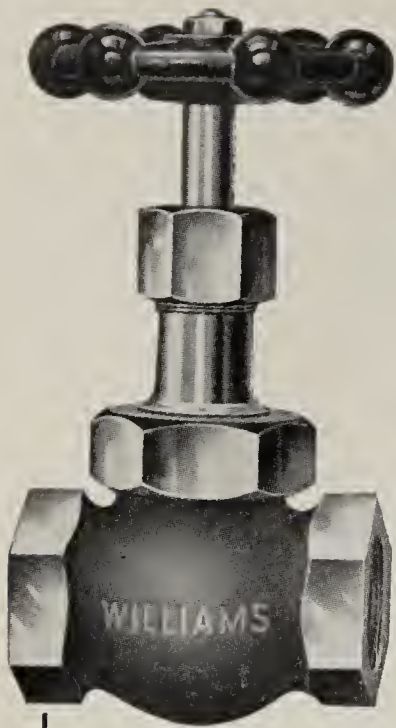
New York

Boston

Pittsburgh

Cleveland

Birmingham



ARE YOU A POWER PLANT MAN?

You use valves? You must know that Regrinding Valves are the only ones suitable for high pressure and temperatures and severe service?

Now, the one thing you may not know is that the Williams Valve is the one you need

You need it because it is the best regrinding valve made—because it has greater lift of disc, larger wearing surfaces, and is stronger in construction—because it is reground without removing from steam line or breaking a pipe connection.

It's the valve for your plant—look it up.

Our Catalog is Ready for You.

THE D. T. WILLIAMS VALVE CO.
CINCINNATI, OHIO



MONARCH VALVE & MANUFACTURING COMPANY

MANUFACTURERS OF

HIGH GRADE BRONZE

AND

IRON GATE and GLOBE VALVES

FOR HIGH PRESSURE STEAM, SUPERHEATED STEAM,
WATER, GAS, AMMONIA AND OIL.

General Office and Factory at **WARREN, MASSACHUSETTS.**

Treasurer's Office, 476 Main Street, **SPRINGFIELD, MASS.**

Valves (Gate)

Albany Steam Trap Co., Albany, N. Y.
 American District Steam Co. (Packless Iron & Brass Body), Lockport, N. Y.
 American Valve Co., Coxsackie, N. Y.
 American Valve & Meter Co. (Brass), 1119 Gest, Cincinnati, O.
 Belfield, H. & Co. (Brass or Iron), 435 N Broad, Phila., Pa.
 Best Mfg. Co. ("Climax"), 25th & A. V. Ry., Pittsburg, Pa.
 Bourbon Copper & Brass Co., 618 E Front, Cincinnati, O.
 Buckeye Iron & Brass Works, Dayton, O.
 Capital Brass Works ("Standard," "Union"), Detroit, Mich.
 Cayuta Mfg. Co. (for Steam, Gas & Oil), Sayre, Pa.
 Central Brass Works, 322 W Pearl, Cincinnati, O.
 Chapman Valve Mfg. Co., Indian Orchard, Mass.
 Coldwell-Wilcox Co. ("Wilcox"), Newburgh, N. Y.
 Crane Co. (Est. 1855), (Iron & Brass), 519 S Canal, Chicago, Ill. (See adv. index, end of book)
 Dame & Townsend Co. ("Morse"), 27 Cliff, New York
 Darling Pump & Mfg. Co., Williamsport, Pa.
 Eastwood Wire Mfg. Co., Belleville, N. J.
 Eaton, Cole & Burnham Co., Bridgeport, Conn.
 Eddy Valve Co. (Eddy Parallel & Taper Seat), Waterford, N. Y.
 Exeter Machine Works, Exeter, N. Y.
 Fairbanks Co. ("Pratt-Cady"), 186 Lafayette, New York
 Forest City Brass Works (Straight Way, etc.), Cleveland, O.
 General Fire Extinguisher Co., Providence, R. I.
 Harvey's, A. Sons Mfg. Co., 22 1st, Detroit, Mich.
 Haydenville Co., Haydenville, Mass.
 Hoffmann, B. Mfg. Co., 257 6th, Milwaukee, Wis.
 Hoffmann-Billings Mfg. Co., 178 Becher, Milwaukee, Wis.
 Homestead Valve Mfg. Co. (Straightway), Homestead, Pa.
 Illinois Malleable Iron Co., 30 W Monroe, Chicago
 Jarecki Mfg. Co., Erie & Pittsburg, Pa.
 Jenkins Bros., 71 John, New York
 Kelly & Jones Co. (Brass & Iron), 135 Water, Pittsburg, Pa.
 Kennedy Valve Mfg. Co. (Iron, Brass & Bronze), 57 Beekman, New York
 Keystone Brass & Iron Works ("Abel"), Titusville, Pa.
 Libby Valve & Packing Co. ("Vincut"), 147 Varick, New York
 Ludlow Valve Mfg. Co., Troy, N. Y.
LUNKENHEIMER CO. ("Clip," "Victor" Double Disc "Handy"), General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)
 McLean, John ("Ayers"), 440 Water, New York
 McMann's, Thos. R. Sons ("Russell"), 58 Gold, New York
 McNab & Harlin Mfg. Co. (Brass & Iron Body), 56 John, & Paterson, N. J.
 Milwaukee Valve Co., Milwaukee, Wis.

MONARCH VALVE MFG. CO., Warren, Mass. (See adv. index, end of book)
 Nelson Valve Co. ("S. & B."), Wyndmoor, Pa.
OIL WELL SUPPLY CO., 215 Water, Pittsburg, Pa. (See adv. index, end of book)
 Peerless Heater & Valve Co. ("Booth's"), Detroit, Mich.
 Pittsburg Gauge & Supply Co., 309 Water, Pittsburg, Pa.
PITTSBURG VALVE FOUNDRY & CONSTRUCTION CO., 26th & A. V. Ry., Pittsburg, Pa. (See adv. index, end of book)
 Powell, Wm. Co. ("U. S.," "Star"), 2629 Spring Grove av., Cincinnati, O.
 Pratt & Cady Co., 556 Capitol, Hartford, Conn.
 Queen City Brass & Iron Works ("Hesterberg," Brass & Iron Body), Spring Grove & Garrard avs., Cincinnati, O.
 Rensselaer Mfg. Co., Troy, N. Y.
 Scott Valve Co., 231 Randolph, Chicago, Ill.
 South Park Foundry & Machine Co. (For Water Mains), St. Paul, Minn.
STEIN, HENRY, 48 Cliff, New York, (See adv. index, end of book)
 Stephens, Roe Mfg. Co. (Scott's High Pressure, etc.), 1072 McKinley av., Detroit, Mich.
STRONG, CARLISLE & HAMMOND Co., 333-344 Frankfort av., N. W., Cleveland, O. (See adv. index, end of book)
 Sweet & Doyle ("Vincent"), Cohoes, N. Y.
 Thompson, J. & Co., Van Horn & Sopha, Phila., Pa.
 Unique Engineering Co., 100 Hinsdale, Brooklyn, N. Y.
 Walworth Mfg. Co., 132 Federal, Boston, Mass.
 Western Tube Co. (Brass & Iron), Kewanee, Ill.
WILLIAMS, D. T. VALVE CO., 904 B'way, Cincinnati, O. (See adv. index, end of book)
 Wood, R. D. & Co. (for Water, Gas, Oil & Steam), 400 Chestnut, Phila., Pa.

Valves (Gate, for Water Mains)

Beaumont, Richard, Kankakee, Ill.
 Bourbon Copper & Brass Wks, 618 E Front, Cayuta Mfg. Co., Sayre, Pa.
 Chapman Valve Mfg. Co., Indian Orchard, Coldwell-Wilcox Co., Newburgh, N. Y.
 Crane Co. (Est. 1855), 519 S Canal, Chicago, Ill. (See adv. index, end of book)
 Darling Pump & Mfg. Co., Williamsport, Pa.
 Drummond, M. J. & Co., 182 B'way, New York
 Eddy Valve Co., Waterford, N. Y.
 Herron Pump & Foundry Co., Chattanooga, Tenn.
 Kennedy Valve Mfg. Co., 57 Beekman, New York, & Coxsackie, N. Y.
 Ludlow Valve Mfg. Co., Troy, N. Y.
 McLean, Jno., 440 Water, New York.
MONARCH VALVE MFG. CO., Warren, Mass. (See adv. index, end of book)
 National Car Wheel Co., Sayre, Pa.
 Pittsburg Mfg. Co. ("Ludlow"), 28th & Railroad, Pittsburg, Pa.
PITTSBURG VALVE FOUNDRY & CONSTRUCTION CO., 26th & A. V. Ry., Pittsburg, Pa. (See adv. index, end of book)
 Rensselaer Mfg. Co., Troy, N. Y.
 Smith, A. P. Mfg. Co., Newark, N. J.
 Stephens, Roe Mfg. Co. (Scott's High Pressure, etc.), Detroit, Mich.

Sweet & Doyle Valve Co., Troy, N. Y., & 238 Franklin, Boston, Mass.
 Thomas, C. W., Detroit, Mich.
 Walworth Mfg. Co., 132 Federal, Boston.
 Wood, R. D. & Co., 400 Chestnut, Phila., Pa.

Valves (Generator)

American Lubricator Co. (For Gasoline Engines), Detroit, Mich.
LUNKENHEIMER CO. ("Nonpareil"), General offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)
WILLIAMS, D. T. VALVE CO., 904 B'way, Cincinnati, O. (See adv. index, end of book)

Valves (Globe & Angle)

American Valve Co., Coxsackie, N. Y.
 American Valve & Meter Co. (Brass), 1119 Gest, Cincinnati, O.
 Bashlin Co., Warren, Pa.
 Belfield, H. & Co., 435 N Broad, Phila., Pa.
 Belknap Mfg. Co., Bridgeport, Conn.
 Best Mfg. Co. ("Climax"), Pittsburg, Pa.
 Buckeye Iron & Brass Works, Dayton, O.
 Burlington Brass Works ("Kant Leek"), Burlington, Wls.
 Central Brass Works, 322 W Pearl, Cinn., O.
 Chapman Valve Mfg. Co., Indian Orchard, Coldwell-Wilcox Co., Newburgh, N. Y.
 Crane Co. (Est. 1855), 519 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
CROSBY STEAM GAGE & VALVE Co., 95 Oliver, Boston, Mass., & 16 Dey, New York. (See adv. below; branch offices, end of book)
 Detroit Brass Works, 1304 Brooklyn av., Detroit, Mich.
 Detroit Lubricator Co. ("Detroit"), Hodges bldg, Detroit, Mich.
 Eastwood Wire Mfg. Co., Belleville, N. J.
 Eaton, Cole & Burnham Co., Bridgeport, Conn.
 Eynon-Evans Mfg. Co. (Extra Heavy), 1519 Clearfield, Phila., Pa.
 Fairbanks Co. ("Pratt-Cady"), 186 Lafayette, New York
GARDNER GOVERNOR CO., Quincy, Ill. (See adv. index, end of book)
 General Fire Extinguisher Co., Providence, R. I.
 Glenn, C. C., 115 Fremont, Chicago, Ill.
GOLDEN-ANDERSON VALVE SPECIALTY CO. ("Anderson"), Fulton bldg, Pittsburg, Pa. (See adv. on preceding page)
 Hall, C. F., Syracuse, N. Y.
HANCOCK INSPIRATOR CO., THE, 85, 87, 89 Liberty, New York, N. Y. (See adv. index & branch offices, end of book)
 Hauck Mfg. Co., 322 W Pearl, Cincinnati, O.
HAYDEN & DERBY MFG. CO., THE (Extra Heavy), 85, 87, 89 Liberty, New York, N. Y., & 22, 24, 26 S Canal, Chicago, Ill. Works, 1 Watson, Boston, Mass. (See adv. index & branch offices, end of book)
 Haydenville Co., Haydenville, Mass.
 Homer Brass Works, Inc., 231 Race, Phila., Pa.
 H. & M. Valve Co. ("H. & M." Automatic, 25 Broad, New York, N. Y.
 Illinois Malleable Iron Co., 30 W Monroe, Chicago
 Jarecki Mfg. Co., Erie & Pittsburg, Pa.

SPRING SEAT

GLOBE AND ANGLE VALVE.

BRASS & IRON.

All working parts are renewable without removing from the piping.

All parts interchangeable.

Are easily and quickly repacked while in use.

TESTED

TO 400 POUNDS PER SQUARE INCH AND GUARANTEED

TIGHT.

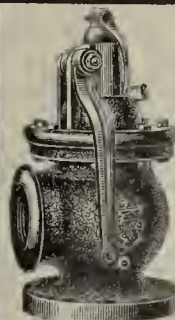
CROSBY VALVES



TRADE-MARK



HIGHEST AWARDS
AT ALL
WORLD'S FAIRS.



Pop Safety Valve.

PERFECT IN

Construction and Operation.

It can be relied upon to open at the pressure set, and to close promptly and automatically when the pressure falls below that point with the least loss of steam.

IT IS THE BEST ADAPTED
OF ALL SAFETY VALVES
TO THE ENDS FOR WHICH
IT WAS PRODUCED.

CROSBY STEAM GAGE & VALVE CO.,
Boston. New York. Chicago. London.

Valves (Hopper)

Crampton-Farley Brass Co. ("Star"), Kansas City, Mo.
 Edwardsville Brass Co., Edwardsville, Ill.
 Savill, Thos. & Sons, 11th & Wood, Phila., Pa.
 Sawyer, W. H. & Son, Americus, Ga.

Valves (Hose)

Elkhart Brass Mfg. Co. (Chicago Pattern), Elkhart, Ind.
 Kennedy Valve Mfg. Co., 57 Beekman, New York, Cossackie, N. Y.
LUNKENHEIMER CO., General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)
 Milwaukee Brass Mfg. Co. (For Fire Escape Stand Pipe), Milwaukee, Wis.
 Rensselaer Mfg. Co., Troy, N. Y.

*Valves (Hot & Cold Blast)

HARTMAN CO., 1231 N Front, Phila., Pa. (See adv. index, end of book)

Valves (Hydraulic)

American Steam Gauge & Valve Mfg. Co., 208 Camden, Boston, Mass.
AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)
 Belfield, H. & Co., 435 N Broad, Phila., Pa.
 Best Mfg. Co. ("Climax"), Pittsburg, Pa.
 Buckeye Iron & Brass Wks., Dayton, O.
 Burroughs, Chas. Co., 141 Commerce, Newark, N. J.
 Chapman Valve Mfg. Co., Indian Orchard, Mass.
CONSOLIDATED SAFETY VALVE CO., The, 85, 87, 89 Liberty, New York, N. Y., & 22, 24, 26 S Canal, Chicago, Ill. Works, Bridgeport, Conn. (See adv. index & branch offices, end of book)
 Crane Co. (Est. 1855), 519 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
 Darling Pump & Mfg. Co., Williamsport, Pa.
 Davidson, M. T. ("Davidson," Three-Way Balanced), 43 Keap, Brooklyn, N. Y., & 141 B'way, New York
 Desper, H. A. Mfg. Co., Worcester, Mass.
 Eastwood Wire Mfg. Co. ("Eastwood"), Belleville, N. J.
 Eddy Valve Co., Waterford, N. Y.
ELMES, CHAS. F. ENGINEERING Works, cor. Fulton & N Sangamon, Chicago, Ill. (See adv. index, end of book)
 Engberg's Electrical & Mechanical Works (Electro-Hydraulic, for Stand Pipes, etc.), St. Joseph, Mich.
 Foster Engineering Co. (Reducing & Relief), Newark, N. J.
 French Oil Mill Machinery Co., Piqua, O.
 Homestead Valve Mfg. Co., Homestead, Pa.
 McNab & Harlin Mfg. Co., 56 John, New York, & Paterson, N. J.

MORGAN ENGINEERING CO., Alliance, O. (See adv. index, end of book)
OIL WELL SUPPLY CO., 215 Water, Pittsburg, Pa. (See adv. index, end of book)
PITTSBURG VALVE, FOUNDRY & Construction Co., 26th & A. V. Ry., Pittsburg, Pa. (See adv. index, end of book)
 Powell, Wm. Co., 2529 Spring Grove av., Cincinnati, O.
 Rensselaer Mfg. Co., Troy, N. Y.
 Robertson, Jno. & Co., 127 Water, Brooklyn, N. Y.

SCHAEFFER & BUDENBERG MFG. CO., (Relief), Foxboro, Mass. (See adv. index & branch offices, end of book)
 Schutte & Koerting, 1251 N 12th, Philadelphia, Pa.
 Sweet & Doyle Valve Co., Troy, N. Y.
 Vulcan Works, Chester, Pa.
WATSON-STILLMAN CO., 26 Cortlandt, New York. (See adv. index, end of book)
 Watson & McDaniel Co. ("Rigins" Balance Rotating), 146 N 7th, Philadelphia, Pa.
 Wood, R. D. & Co. (Operating Shern, etc.), 400 Chestnut, Phila., Pa.

Valves (Hydraulic Pulpit)

PITTSBURG VALVE, FOUNDRY & Construction Co., 26th & A. V. Ry., Pittsburg, Pa. (See adv. index, end of book)
 Wood, R. D. & Co., 400 Chestnut, Phila., Pa.

Valves (Indicator)

American Lubricator Co. (For Gas Engines), Detroit, Mich.
 Crane Co. (Est. 1855), 519 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
 Kennedy Valve Mfg. Co. (or Fire, Gate & Indicator Post Valves), 57 Beekman, N. Y., & Cossackie, N. Y.
 Rensselaer Mfg. Co., Troy, N. Y.
SCHAEFFER & BUDENBERG MFG. CO., Foxboro, Mass. (See adv. index & branch offices, end of book)
 Wood, R. D. & Co., 400 Chestnut, Phila., Pa.

*Valves (Lead)

SCHAEFFER & BUDENBERG MFG. CO., (Diaphragm for Acid Tanks), Foxboro, Mass. (See adv. index & branch offices, end of book)

*Valves (Lead Lined)

PITTSBURG VALVE, FOUNDRY & Construction Co., 26th & A. V. Ry., Pittsburg, Pa. (See adv. index, end of book)
SCHAEFFER & BUDENBERG MFG. CO., Foxboro, Mass. (See adv. index & branch offices, end of book)

Valves (Leather)

Detroit Leather Specialty Co., 275 Beecher, Detroit, Mich.
 Graton & Knight Mfg. Co., Worcester, Mass.
 Houghton, E. F. & Co. ("Vim" Pump, etc.), 240 W. Somerset, Phila., Pa.
 Page Belting Co., Concord, N. H.

Valves (Lever)

Foster Engineering Co. (Balance), Newark, N. J.
LUNKENHEIMER CO., General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

*Valves (Liquid Fuel Regulating)

BEST, W. N. AMERICAN CALORIFIC Co., 11 B'way, New York, N. Y. (See adv. index, end of book)

Valves (Lock)

Emory, P. P. Mfg. Co. (For Rag Engines), Springfield, Mass.
 Hill, E. Jr., (Automobile, "Hill"), South Norwalk, Conn.

Valves (Locomotive)

American Steam Gauge & Valve Mfg. Co. (Pop, Plain & Muffled), 208 Camden, Boston, Mass.
 Ashton Valve Co., 271 Franklin, Boston
 Bardo, L. J. Co. (Inc. ("B. O. Plug Blow-off"), 12th & Thompson, Phila., Pa.
 Belfield, H. & Co. (Cylinder), 435 N Broad, Phila., Pa.
BEST, W. N. AMERICAN CALORIFIC Co., 11 B'way, New York, N. Y. (See adv. index, end of book)
 Cadman, A. W. Mfg. Co. (Blow-Off), Pittsburg, Pa.
 Coale Muffler & Safety Valve Co., Fidelity bldg., Baltimore, Md.
CONSOLIDATED SAFETY VALVE CO., The ("Consolidated" Pop Safety; also with Muffler Attached), 85, 87, 89 Liberty, New York, & 22, 24, 26 S Canal, Chicago, Ill. Works, Bridgeport, Conn. (See adv. index & branch offices, end of book)
 Crane Co. (Est. 1855), 519 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
CROSBY STEAM GAGE & VALVE CO., 95 Oliver, Boston, & 16 Dey, New York (See adv. on preceding page)
 Hammett, M. C. (Balanced Slide), Troy, N. Y.
 Homestead Valve Mfg. Co. (Blow-Off), Homestead, Pa.
 Kunkle, E. B. & Co. Fort Wayne, Ind.
 Lonergan, J. E. & Co. ("Glance" Triple-Seat Check; also Safety Valves, etc.), 211 Race, **LUNKENHEIMER CO., Cincinnati, O.** (See adv. index & branch offices, end of book)

Jenkins Bros. (Brass & Iron Body), 71 John New York
 Kelly & Jones Co. (Brass & Iron), 135 Water, Pittsburg, Pa. Works, Greensburg, Pa.
 Keystone Brass Co., Erie, Pa.
 Kennedy Valve Mfg. Co., 57 Beekman, New York, & Cossackie, N. Y.
 Kinsey & Mahler Co. ("K. & M."), Peoria, Ill.
 fices, Beekman & Waverly, Cincinnati,
 Libby Valve & Packing Co. ("Big 4"), 147 Varlick, N. Y.

Locke Regulator Co., Salem, Mass.
 Loetzer Valve & Mfg. Co. ("Loetzer Dual"), Towanda, Pa.

LUNKENHEIMER CO. General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

McDonald, A. Y. & Morrison Mfg. Co., Dupuque, Ia.

McMann's, Thos. R. Sons ("Russell"), 58 Gold, New York

McMann & Taylor ("Acorn"), 104 John, New York

McNab & Marlin Mfg. Co. (Brass & Iron Body), 56 John, N. Y., & Paterson, N. J.

Milwaukee Valve Co. ("M"), Milwaukee, Wis.

MONARCH VALVE MFG. CO., Warren, Mass. (See adv. index, end of book)

Nelson Valve Co., Wyndmoor, Pa.

New Bedford Boiler & Machine Co., New Bedford, Mass.

Ohio Brass Co., Mansfield, O.

Ohio Pump & Brass Co. (Gas), 18th & Oak, Columbus, O.

OIL WELL SUPPLY CO. (Brass & Iron), 215 Water, Pittsburg, Pa. (See adv. index, end of book)

Perkes, Chas., 627 Arch, Phila., Pa.

Pioneer Brass Works, 212 S Penn, Indianapolis, Ind.

Pittsburg Gage & Supply Co., 309 Water, Pittsburg, Pa.

PITTSBURG VALVE, FOUNDRY & Construction Co., 26th & A. Ry., Pittsburg, Pa. (See adv. index, end of book)

Pleuger & Henger Mfg. Co., 11th & Hebert, St. Louis, Mo.

Powell, Wm. Co. ("Crescent"), 2529 Spring Grove av., Cincinnati, O.

Queen City Brass & Iron Works ("Hesterberg" Brass), Spring Grove & Garrard avs., Cincinnati, O.

Register's, J. Sons Co., Holliday & Saratoga, Baltimore, Md.

Schutte & Koerting Co., 1251 N 12th, Phila., Pa.

Scott Valve Co., 231 Randolph, Chicago, Ill.

Springfield Brass Co., Springfield, O.

STEIN, HENRY, 48 Cliff, New York. (See adv. index, end of book)

Stephens, Roe Mfg. Co. ("Scott," "J. D."), Detroit, Mich.

STRONG, CARLISLE & HAMMOND Co., 333-344 Frankfort av., N. W., Cleveland, O. (See adv. index, end of book)

Thomas Brass & Iron Co., Waukegan, Ill.

Walworth Mfg. Co., 132 Federal, Boston, & 15 Park Row, New York

Western Tube Co., Kewanee, Ill.

WILLIAMS, D. T. VALVE CO., Cincinnati, O. (See adv. index, end of book)

Valves (Greenhouse)

Coldwell-Wilcox Co., Newburgh, N. Y.
 Crane Co. (Est. 1855), 519 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
 Glenn Mfg. Co. (Globe), St. Charles, Ill.

Valves (Gulland Tank)

Best Mfg. Co., Pittsburg, Pa.

Valves (High Pressure)

Collins Mfg. Co., Bourse bldg, Phila., Pa.
 Eddy Valve Co., Waterford, N. Y.
 Ford, Thos. P. Co. (Balance Ball Cock), 407 Broome, N. Y.
 H. & M. Valve Co. ("H. & M." Automatic Steam), 25 Broad, New York, N. Y.
 Kennedy Valve Mfg. Co. (for Steam Service), 57 Beekman, New York, & Cossackie, N. Y.
PITTSBURG VALVE, FOUNDRY & Construction Co., 26th & A. V. Ry., Pittsburg, Pa. (See adv. index, end of book)
 Wood, R. D. & Co., 400 Chestnut, Phila., Pa.

OIL WELL SUPPLY CO., 215 Water,
Pittsburg, Pa. (See adv. index, end of book)
Schutte & Koerting Co., 1251 N 12th, Phila., Pa.
WILLIAMS, D. T. VALVE CO., 904
B'way, Cincinnati, O. (See adv. index, end of book)

Valves (Motor Tire)

Buck, L. K., Freehold, N. J.
Eastern Auto Appliance Co., Journal bldg,
Boston, Mass.
Milwaukee Rubber Works Co., Cudahy, Wis.
Schrader's, A. Sons (Inc.), 30 Rose, New York

*Valves (Mud)

GOLDEN-ANDERSON VALVE SPECIALTY CO. ("Golden"), Fulton bldg, Pittsburg, Pa. (See adv. index, end of book)
PITTSBURG VALVE, FOUNDRY & CONSTRUCTION CO., 26th & A. V. Ry., Pittsburg, Pa. (See adv. index, end of book)

Valves (Muffler)

Coale Muffler & Safety Valve Co., Calvert bldg,
Baltimore, Md.
CONSOLIDATED SAFETY VALVE CO., The (Portable Muffler Pop Safety), 85, 87, 89 Liberty, New York, N. Y., & 22, 24, 26 S Canal, Chicago, Ill. Works, Bridgeport, Conn. (See adv. index & branch offices, end of book)
Lonergan, J. E. & Co., 211 Race, Phila., Pa.

Valves (Needle)

Buckeye Iron & Brass Works, Dayton, O.
Crane Co. (Est. 1855), 519 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
LUNKENHEIMER CO., General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

Valves (Non-Return)

GOLDEN-ANDERSON VALVE SPECIALTY CO., Fulton bldg, Pittsburg, Pa. (See adv. index, end of book)
H. & M. Valve Co., 25 Broad, New York
LUNKENHEIMER CO., General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)
PITTSBURG VALVE, FOUNDRY & CONSTRUCTION CO., 26th & A. V. Ry., Pittsburg, Pa. (See adv. index, end of book)
Schutte & Koerting Co., 1251 N 12th, Phila., Pa.

Valves (Organ)

Homer Brass Works, 231 Race, Phila., Pa.

Valves (Piston)

American Balance Valve Co., Jersey Shore, Pa.
AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)
Stayman Mfg. Co. ("Stayman"), 95 Liberty, New York
Trethewey, Sam'l & Co. (Ltd), 47th nr Butler, Pittsburg, Pa.

Valves (Plug)

Cadman, A. W. Mfg. Co. (Split), Pittsburg, Pa.
GOLDEN-ANDERSON VALVE SPECIALTY CO. ("Anderson"), Fulton bldg, Pittsburg, Pa. (See adv. index, end of book)
Hall, C. F., Syracuse, N. Y.
Loetzer Valve & Mfg. Co. (Steam, Gas, Air, Oil & Ammonia), Towanda, Pa.

Valves (Pop Safety)

Acton, Jno., 118 John, Brooklyn, N. Y.
American Steam Gauge & Valve Mfg. Co., 208 Camden, Boston, Mass.
Ashton Valve Co., 271 Franklin, Boston, Mass.
Bonar, Jas. & Co., Frick bldg, Pittsburg, Pa.
Buckeye Iron & Brass Works, Dayton, O.
Coale Muffler & Safety Valve Co., Calvert bldg, Baltimore, Md.
CONSOLIDATED SAFETY VALVE CO., The (Consolidated), 85, 87, 89 Liberty, New York, N. Y., & 22, 24, 26 S Canal, Chicago, Ill. Works, Bridgeport, Conn. (See adv. index & branch offices, end of book)
Crane Co. (Est. 1855), 519 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
CROSBY STEAM GAGE & VALVE CO., 95 Oliver, Boston, Mass., & 16 Dey, New York (See adv. index, end of book)
Detroit Lubricator Co. (Low Pressure), Detroit, Mich.
Hayden, N. L. Mfg. Co. ("Hayden"), Columbus, O.
Kunkle, E. B. & Co. ("Kunkle" Lock-Up), 817 Barr, Ft. Wayne, Ind.
Lonergan, J. E. & Co. ("Linde's" & U. S. Government, Marine & Stationery Boilers), 211 Race, Phila., Pa.
LUNKENHEIMER CO. General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)
Michigan Lubricator Co. ("Michigan"), Detroit, Mich.
OIL WELL SUPPLY CO., 215 Water, Pittsburg, Pa. (See adv. index, end of book)
Powell, Wm. Co., 2529 Spring Grove av, Cincinnati, O.
SCHAEFFER & BUDENBERG MFG. CO., Foxboro, Mass. (See adv. index & branch offices, end of book)
Scott Valve Co., 231 Randolph, Chicago, Ill.
STANDARD GAUGE MFG. CO., Syracuse, N. Y. (See adv. index & branch offices, end of book)
Sherwood Mfg. Co., Buffalo, N. Y.
Stephens, Roe Mfg. Co., McKinley av, Detroit, Mich.
Swift Lubricator Co., Elmira, N. Y.
Thomas Brass & Iron Co., Waukegan, Ill.
Walworth Mfg. Co., 132 Federal, Boston, Mass.

Valves (Power House)

GOLDEN-ANDERSON VALVE SPECIALTY CO., Fulton bldg, Pittsburg, Pa. (See adv. index, end of book)
Kennedy Valve Mfg. Co., 57 Beekman, New York, & Coxsackie, N. Y.
PITTSBURG VALVE, FOUNDRY & CONSTRUCTION CO., 26th & A. V. Ry., Pittsburg, Pa. (See adv. index, end of book)

Valves (Pressure Reducing)

Acton, John, 118 John, Brooklyn, N. Y.
AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)
Atwood & Morrill ("XX" Century), Salem, Mass.
Automatic Reducing Valve Co. (Automatic), 123 La Salle, Chicago
Best Mfg. Co., 25th & A. V. Ry., Pittsburg, Pa.
Burton, C. H., 107 W Centre, Cleveland, O.
Bushnell, Jno. S., 120 Liberty, N. Y.
Collins Mfg. Co., Bourse bldg, Phila., Pa.
Consolidated Engineering Co. ("Van Auken"), cor Jackson & Canal, Chicago, Ill.
Crane Co. (Est. 1855), 519 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
Croslen Mfg. Co. (Automatic), 119 La Salle, Chicago.
Davis, Geo. M. Regulator Co. (Reducing, Steam, Air & Water, 144 Milwaukee av, Chicago, Ill.
Davis, Jno. Co. (Eclipse), 69 Michigan, Chicago
D'Este, Julian Co., 24 Canal, Boston, Mass.
Eastwood Wire Mfg. Co., Belleville, N. J.
Eynon-Evans Mfg. Co., 1519 Clearfield, Phila., Pa., & 107 Liberty, New York
Fisher Governor Co., Marshalltown, Ia.
Ford, Thos. P. Co. (Steam & Water), 407 Broome, New York
Foster Engineering Co. (for High & Low Pressure), Newark, N. J.
GOLDEN-ANDERSON VALVE SPECIALTY CO. ("Anderson"), Fulton bldg, Pittsburg, Pa. (See adv. index, end of book)
Harlem Mfg. Co., 42 W 67th, N. Y.
Johnson Service Co. (Steam, Water, Air & Gas), Milwaukee, Wis.
Kieley & Mueller, 34 W 13th, N. Y.
Kitts Mfg. Co. (Water), Oswego, N. Y.
Knapp Bros. Mfg. Co. ("Knapp's" Automatic), 123 Franklin, Chicago, Ill.
Leslie Co. (Inc.), ("Leslie"), Lyndhurst N. J.
Locke Regulator Co. ("New Era" "Beats All"), Salem, Mass.
Lonergan, J. E. & Co. (Pressure), 211 Race, Phila., Pa.
LUNKENHEIMER CO., General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)
Mason Regulator Co., 158 Summer, Boston, Mass.
Monash-Younger Co. (Steam), 203 S Canal, Chicago, Ill.
New Bedford Boiler & Machine Co., New Bedford, Mass.
Ross Valve Co., 6 Oakwood av, Troy, N. Y.
SCHAEFFER & BUDENBERG MFG. CO., ("Simplex" "Farron"), Foxboro, Mass. (See adv. index & branch offices, end of book)
Scott Valve Co., 231 Randolph, Chicago, Ill.
Standard Steam Specialty Co. (Utility), 542 W B'way, New York
Steam Appliance Co. ("Root"), Milwaukee, Wis.
Stephens-Roe Mfg. Co., Detroit, Mich.
STRONG, CARLISLE & HAMMOND CO., 333-344 Frankfort av, N. W., Cleveland, O. (See adv. index, end of book)
Waters Governor Co., Everett, Mass.
Watson & McDaniel Co. ("Watson" for Steam, Water & Air), 146 N 7th, Phila., Pa.

PIPE FITTINGS AND VALVES

TRADE



MARK

JOHN SIMMONS CO.

TRADE



MARK

110 Centre Street, NEW YORK.

Valves (Pump)

(See also Valves, Rubber.)

AMERICAN WELL WORKS, Aurora, Ill.
(See adv. index & branch offices, end of book)

Athol Pump Co., Athol, Mass., & Newark, N. J.

Berger Bros. Co., 231 Arch, Phila., Pa.

BOSTON BELTING CO. (Rubber), 260
Devonshire, Boston, Mass., & 100 Reade,
New York (See adv. index, end of book)

Brandt, Randolph, 70 Cortlandt, New York

Buckeye Iron & Brass Works, Dayton, Ohio

Evans, Joseph, 23 Crittenden, Newark, N. J.

Jenkins Bros., 71 John, New York

Marston, J. G. & Co., 226 Ruggles, Boston, Mass.

New York Belting & Packing Co. (Ltd.) (Rubber), 48 Franklin, New York

O'Crowley, J. J. ("O'Crowley" Patent Detachable), 45 Hudson, Jersey City, N. J.

OIL WELL SUPPLY CO., 215 Water,
Pittsburg, Pa. (See adv. index, end of book)

Pontiac Leather Specialty Co., Pontiac, Mich.

Power Specialty Co. (Armored), 111 B'way, N. Y.

STRONG MACHINERY SUPPLY CO.
("Strong's I. O. P." Oil Proof Pump Valves),
48 Franklin, New York, N. Y. (See adv. index, end of book)

Ward & Upright Engineering Co. ("Kinghorn," Multiplex), 41 York, Brooklyn, N. Y.

Valves (Radiator)

Albany Steam Trap Co., 60 Church, Albany, N. Y.

American Valve Co., Coxsack, N. Y.

AMERICAN RADIATOR CO., General Office,
282 Michigan av, Chicago, Ill. (See adv. index & branch offices, end of book)

American Steam Gauge & Valve Mfg. Co., 208 Camden, Boston, Mass.

Argon Mfg. Co., Denver, Col., & 105 Beekman, N. Y.

Bashlin Co., Warren, Pa.

Belfield, H. & Co. (Iron & Brass), 435 N Broad, Phila., Pa.

Blake & Andros ("B. A."), Boston, Mass.

Buckeye Iron & Brass Works, Dayton, O.

Capital Brass Works ("Jenkins," "Disc," "Union"), Detroit, Mich.

Chapman Valve Mfg. Co., Indian Orchard, Mass.

Central Brass Works, 322 W Pearl, Cincinnati, O.

Crane Co. (Est. 1855), 519 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)

Darling Pump & Mfg. Co., Williamsport, Pa.

Detroit Heating & Lighting Co., Wright nr Leib, Detroit, Mich.

Detroit Lubricator Co. (Quick Opening & Interlocking Steam "Detroit"), Hodges bldg, Detroit, Mich.

Eaton, Cole & Burnham Co., Bridgeport, Conn.

Eastwood Wire Mfg. Co. ("Belleville"), Belleville, N. J.

Excelsior Steel Furnace Co., 40 W Monroe, Chicago, Ill.

Exeter Machine Works, 32 Oliver, Boston, Mass., & Exeter, N. H.

Fairbanks Co. ("Pratt-Cady"), 186 Lafayette, New York

Forest City Brass Works ("Kennedy"), Cleveland, O.

Gold Car Heating & Lighting Co., 17 Battery pl, New York

Griffing, A. A. Iron Co., Jersey City, N. J.

Gurney Heater Mfg. Co., 188 Franklin, Boston, Mass.

Haydenville Co., Haydenville, Mass.

Hoffman, B. Mfg. Co. ("Judge"), Milwaukee, Wis.

Jarecki Mfg. Co., Erie & Pittsburg, Pa.

Jenkins Bros., 71 John, N. Y.; 35 High, Boston, Mass.

Kelly & Jones Co. ("Universal"), 135 Water, Pittsburg, Pa.

Kennedy Valve Mfg. Co. (With Wood Wheels, etc.), 57 Beekman, New York, & Coxsack, N. Y.

Locke Regulator Co., Salem, Mass.

LUNKENHEIMER CO., General Offices & Works,
Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

McLean, John, 440 Water, New York

McMann & Taylor ("Acorn"), 104 John, New York

McNab & Harlin Mfg. Co., 56 John, New York & Paterson, N. J.

Milwaukee Valve Co. ("M"), Milwaukee, Wis.

MONARCH VALVE & MFG. CO., Warren, Mass. (See adv. index, end of book)

National Steam Specialty Co., 230 E Wash'n, Chicago, Ill.

Norwall Mfg. Co. ("Norwall" Packless), 154 Lake, Chicago, Ill.

Ohio Brass Co., The ("Mackay"), Mansfield, Ohio

Penn Engineering Co., 312 Cherry, Phila., Pa.

Pierce, Butler & Pierce Mfg. Co., Syracuse, N. Y.

Powell, Wm. Co. ("Crescent"), 2529 Spring Grove av, Cincinnati, O.

Queen City Brass & Iron Works ("Hesterberg"), Cincinnati, O.

Register's, J. Sons Co., Holliday & Saratoga, Baltimore, Md.

Rensselaer Mfg. Co., Troy, N. Y.

Schutte & Koerting Co., 1251 N. 12th, Philadelphia, Pa.

Smith, H. B. Co., 133 Centre, New York, & Westfield, Mass.

STEIN, HENRY, 46 Cliff, New York.
(See adv. index, end of book)

Stephens, Roe Mfg. Co. ("Scott" "Chicago"), Detroit, Mich.

Syracuse Faucet & Valve Co., Syracuse, N. Y.

Utica Steam Gauge Co. ("Pedal" "Woods"), Frankfort, N. Y.

Van Auken-Clevauc Co., Yonkers, N. Y.

Walworth Mfg. Co., Boston, Mass.

Western Tube Co., Kewanee, Ill.

WILLIAMS, D. T. VALVE CO., 904
B'way, Cincinnati, O. (See adv. index, end of book)

Valves (Radiator, Automatic Air)

(See Valves, Air.)

Valves (Radiator, Corner)

Bashlin Co., Warren, Pa.

Buckeye Iron & Brass Works, Dayton, O.

Capital Brass Works ("Jenkins Disc," Female), Detroit, Mich.

Chapman Valve Mfg. Co., Indian Orchard, Mass.

Crane Co. (Est. 1855), 519 S. Canal, Chicago, Ill. (See adv. index & branch offices, end of book)

Eastwood Wire Mfg. Co. ("Belleville"), Belleville, N. J.

Eaton, Cole & Burnham Co., Bridgeport, Conn.

Forest City Brass Works, Cleveland, O.

LUNKENHEIMER CO., Cincinnati, O.;
(See adv. index & branch offices, end of book)

Milwaukee Valve Co. ("M"), Milwaukee, Wis.

MONARCH VALVE & MFG. CO., Warren, Mass. (See adv. index, end of book)

Powell, Wm. Co., 2529 Spring Grove av, Cincinnati, O.

Queen City Brass & Iron Works, Cincinnati, O.

Stephens, Roe Mfg. Co. ("Scott"), Detroit, Mich.

Valves (Radiator, Hot Water)

AMERICAN RADIATOR CO., General Office,
282 Michigan av, Chicago, Ill. (See adv. index & branch offices, end of book)

Buckeye Iron & Brass Works, Dayton, O.

Capital Brass Works, Detroit, Mich.

Crane Co. (Est. 1855), 519 S. Canal, Chicago, Ill. (See adv. index & branch offices, end of book)

Chapman Valve Mfg. Co., Indian Orchard, Mass.

Detroit Lubricator Co., Hodges bldg, Detroit, Mich.

Eastwood Wire Mfg. Co. ("Belleville"), Belleville, N. J.

Exeter Machine Co., Exeter, N. H., & 32 Oliver, Boston, Mass.

Forest City Brass Works ("Kennedy"), Cleveland, O.

LUNKENHEIMER CO., General Offices & Works,
Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

Mackay Mfg. Co. ("W. M. Mackay"), 66 James, Newark, N. J.

Milwaukee Valve Co. ("M"), Milwaukee, Wis.

MONARCH VALVE & MFG. CO., Warren, Mass. (See adv. index, end of book)

Ohio Brass Co. ("Mackay"), Mansfield, O.

Penn Engineering Co., 312 Cherry, Phila., Pa.

Queen City Brass & Iron Works, Cincinnati, O.

STEIN, HENRY, 48 Cliff, New York.
(See adv. index, end of book)

Stephens, Roe Mfg. Co. ("Chicago" Quick Opening), Detroit, Mich.

Syracuse Faucet & Valve Co., Syracuse, N. Y.

Western Tube Co., Kewanee, Ill.

Valves (Register)

Judson Governor Co. (For Saw Mills, Mines, Hoisting Engines, etc.), Rochester, N. Y.

Valves (Regrinding)

Buckeye Iron & Brass Works, Dayton, O.

Crane Co. (Est. 1855), 519 S. Canal, Chicago, Ill. (See adv. index & branch offices, end of book)

LUNKENHEIMER CO., General Offices & Works,
Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

WILLIAMS, D. T. VALVE CO., 904
B'way, Cincinnati, O. (See adv. index, end of book)

Valves (Regulating)

(See Regulators, Pump.)

Valves (Relief)

Acton, John (Atmospheric), 118 John, Brooklyn, N. Y.

All Metal Valve Co. (Automatic), 136 Liberty, New York

American Steam Gauge & Valve Mfg. Co., 208 Camden, Boston, Mass.

American Valve & Meter Co., Cincinnati, O.

Blake, Geo. F. Mfg Co. ("Blake" Automatic Exhaust), 114 Liberty New York

CONSOLIDATED SAFETY VALVE
Co., The ("Blackall" for Locomotives), 85, 87, 89 Liberty, New York, N. Y., & 22, 24, 26 S Canal, Chicago, Ill. Works, Bridgeport, Conn. (See adv. index & branch offices, end of book)

Crane Co. (Est. 1855), 519 S. Canal, Chicago, Ill. (See adv. index, end of book)

Davidson, M. T. ("Davidson" Automatic Exhaust for Condensing Engines), 43 Keap, Brooklyn, N. Y., & 141 B'way, New York

Davis, Geo M. Regulator Co. (Open Air), 144 Milwaukee av, Chicago, Ill.

Eaton, Cole & Burnham Co. (Automatic), Bridgeport, Conn.

Klipfel Mfg. Co. ("K. & T."), 74 W. Lake, Chicago, Ill.

Locke Regulator Co. (Or Vacuum Breaker), Salem, Mass.

Ludlow Valve Mfg. Co., Troy, N. Y.

LUNKENHEIMER CO., General Offices & Works,
Cincinnati, O. (See adv. index & branch offices, end of book)

McCarthy, Felix, Pottstown, Pa.

PITTSBURG VALVE, FOUNDRY & Construction Co.,
26th & A. V. Ry., Pittsburg, Pa. (See adv. index, end of book)

Ross Valve Co. (For Water Mains), Troy, N. Y.

SCHAEFFER & BUDENBERG MFG. CO.,
(Combined Spring), Foxboro, Mass. (See adv. index & branch offices, end of book)

Schutte & Koerting Co., 1251 N. 12th, Phila., Pa.

Sheffield Car Co., Three Rivers, Mich.

Sweet & Doyle Valve Co., Troy, N. Y., & 238 Franklin, Boston, Mass.

Wood, R. D. & Co., 400 Chestnut, Phila., Pa.

Valves (Renewable Seat)

Albany Steam Trap Co., Albany, N. Y.

Bashlin Co., Warren, Pa.

Chapman Valve Mfg. Co., Indian Orchard, Mass.

Crane Co. (Est. 1855), 519 S. Canal, Chicago, Ill. (See adv. index & branch offices, end of book)

Eastwood Wire Mfg. Co. (Also Disc), Belleville, N. J.

Libby Valve & Packing Co., 147 Varick, New York

LUNKENHEIMER CO., General Offices & Works,
Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

MONARCH VALVE & MFG. CO., Warren, Mass. (See adv. index, end of book)

Scott Valve Co., 231 Randolph, Chicago, Ill.

*Valves (Reversing)

AMSLER ENGINEERING CO., Diamond Bank Bldg.,
Pittsburg, Pa. (See adv. index & branch offices, end of book)

Wellman Seaver-Morgan Co. (Forster, Water Sealed), Cleveland, O.

*Valves (Reversing, Air or Gas)

AMSLER ENGINEERING CO. (Air & Gas),
Diamond Bank Bldg., Pittsburg, Pa. (See adv. index & branch offices, end of book)

Valves (Rubber)

BOSTON BELTING CO., 260 Devon-
shire, Boston, Mass., & 100 Reade, N. Y.
(See adv. index & branch offices, end of book)
Canfield, H. O. Co., Bridgeport, Conn.
Consolidated Rubber Co., Trenton, N. J.
Continental Rubber Works, Erie, Pa.
Crescent Belting & Packing Co., Trenton, N. J.
Diamond Rubber Co., Akron, O.
Elkhart Rubber Works, Elkhart, Ind.
Empire Rubber Mfg. Co., Trenton, N. J., & 60
Reade, N. Y.
Excelsior Valve Co. ("Excelsior"), 106 Ful-
ton, New York
Goodrich, B. F. Co., Akron, O.
Gutta Percha & Rubber Mfg. Co., 126 Duane,
New York
Hamilton Rubber Mfg. Co., Trenton, N. J.
Home Rubber Co., Trenton, N. J.
Home Rubber Co., Trenton, N. J.; 17 La Salle,
Chicago, Ill., & 80 Reade, New York
Johns-Pratt Co., Hartford, Conn.
Lake Shore Rubber Co., Erie, Pa.
Manhattan Rubber Mfg. Co., 18 Vesey, N. Y.,
& Passaic, N. J.
Mechanical Rubber Co., 91 Chambers, New
York, N. Y.
Morgan & Wright (Inc.), (Marine, Pump, etc.),
226 Jefferson av., Detroit, Mich.
N. J. Car Spring & Rubber Co., Jersey City,
N. J.
New York Belting & Packing Co. (Ltd.) (Pump
& Ball), 91 Chambers, New York
New York Rubber Co., 84 Reade, New York
Peerless Rubber Mfg. Co., 16 Warren, N. Y.
Penna. Rubber Co., Jeannette, Pa.
Revere Rubber Co., 77 Bedford, Boston, Mass.
SAYEN, OSGOOD ("Johnson" Vulcanite),
Arcade bldg., Phila., Pa. (See adv. below;
branch offices, end of book)
Seward Rubber Co., Berlin, Conn.
Stokes, Jos. Rubber Co., Trenton, N. J.
STRONG MACHINERY & SUPPLY CO.
("Strong's") I. O. P. Oil Proof Pump
Valves), 48 Franklin, New York (See adv.
index, end of book)
Trenton Rubber Mfg. Co., Trenton, N. J.
United & Globe Rubber Mfg. Co., Trenton, N. J.
Voorhees Rubber Mfg. Co., Jersey City, N. J.
Waterbury Rubber Mfg. Co., 75 Warren, N. Y.
den, Boston, Mass.
Whitehead Bros. Rubber Co., Trenton, N. J.

Valves (Safety)

Am. Steam Gauge & Valve Mfg. Co., 208 Cam-
den, Boston, Mass.
Andrews Heating Co. ("Andrews" "Regurgi-
tating"), 203 Hennepin av., Minneapolis,
Minn.
Ashton Valve Co., 271 Franklin, Boston, Mass.
Belfield, H. & Co. (Brass or Iron), 435 N
Broad, Phila., Pa.
Buckeye Iron & Brass Works, Dayton, O.
Coale Muffler & Safety Valve Co., Baltimore,
Md.
Crane Co. (Est. 1855), 519 S Canal, Chicago,
Ill. (See adv. index & branch offices, end
of book)
CROSBY STEAM GAGE & VALVE CO., 95
Oliver, Boston, Mass.; 16 Dey, New York
(See adv. index, end of book)
Cutler Mfg. Co., Scranton, Pa.
Davis, Jno. Co. ("Eclipse"), 22d & Halstead,
Chicago, Ill.
Eastwood Wire Mfg. Co. (Cross Safety), Belle-
ville, N. J.
Eaton, Cole & Burnham Co., Bridgeport, Conn.
Fort Wayne Safety Valve Works ("Kunkle"),
Fort Wayne, Ind.
Foster Engineering Co. (Automatic), Newark,
N. J.
Hayden, N. L. Mfg. Co. ("Hayden"), Colum-
bus, O.
Haydenville Co. (Boiler), Haydenville, Mass.
H. & M. Valve Co. ("H. & M." Automatic),
25 Broad, New York, N. Y.
Hoffmann, B. Mfg. Co., 257 6th, Milwaukee,

Hoffmann-Billings Mfg. Co., 178 Becher, Mil-
waukee
Illinois Malleable Iron Co., 30 W Monroe, Chi-
cago, Ill.

Jarecki Mfg. Co., Erie & Pittsburg, Pa.
Jenkins Bros., 71 John, New York
Kelly & Jones Co., 135 Water, Pittsburg, Pa.
Kling Iron Works, 226 Ohio, Buffalo, N. Y.
Kunkle, E. B. & Co., Fort Wayne, Ind.
Locke Regulator Co., Salem, Mass.
Lonergan, J. E. & Co. (Spring Loaded), 211 Race,
Philadelphia, Pa.

LUNKENHEIMER CO. General Of-
fices & Works, Beekman & Waverly, Cin-
cinnati, O. (See adv. index & branch of-
fices, end of book)

McNab & Harlin Mfg. Co. (Brass Iron Body),
56 John, New York, & Paterson, N. J.
Michigan Lubricator Co., Detroit, Mich.
Morrison Automatic Safety Valve Co., Toledo,
O.

OIL WELL SUPPLY CO., 215 Water,
Pittsburg, Pa. (See adv. index, end of
book)

Powell, Wm. Co., 2529 Spring Grove av., Cin-
cinnati, O.

Queen City Brass & Iron Works "Hester-
berg"), Spring Grove & Garrard avs., Cin-
cinnati, O.

Safety Cylinder Valve Co., Mansfield, O.
SCHAEFFER & BUDENBERG MFG. CO.,
("National," etc.), Foxboro, Mass. (See
adv. index & branch offices, end of book)

Scott Valve Co., 32 W Randolph, Chicago, Ill.
Sherwood Mfg. Co., Buffalo, N. Y.
Simplex Mfg. Co. ("Simplex" Range & Boiler),
90 West, N. Y.

STANDARD GAUGE MFG. CO., Syra-
cuse, N. Y. (See adv. index, end of book)

Stephens, Roe Mfg. Co. ("Orme," "Scott"),
Detroit, Mich.

Springfield Brass Co., Springfield, O.
Thomas Brass & Iron Co., Waukegan, Ill.
Walworth Mfg. Co., 132 Federal, Boston, Mass.
Western Tube Co., Kewanee, Ill.

*Valves (Screw Down Check)

LUNKENHEIMER CO. General Of-
fices & Works, Beekman & Waverly, Cin-
cinnati, O. (See adv. index & branch of-
fices, end of book)

PITTSBURG VALVE, FOUNDRY &
Construction Co., 26th & A. V. Ry., Pitts-
burg, Pa. (See adv. index, end of book)

WILLIAMS, D. T. VALVE CO., 904
B'way, Cincinnati, O. (See adv. index, end
of book)

*Valves (Sight Feed)

LUNKENHEIMER CO. General Of-
fices & Works, Beekman & Waverly, Cin-
cinnati, O. (See adv. index & branch of-
fices, end of book)

*Valves (Snifting)

CONSOLIDATED SAFETY VALVE
Co., The ("Consolidated" for the ends of
Cylinders on Steam Engines & Locomotives),
85, 87, 89 Liberty, New York, & 22, 24, 26
S Canal, Chicago, Ill. Works, Bridgeport,
Conn. (See adv. index & branch offices, end
of book)

CROSBY STEAM GAGE & VALVE
Co., 97 Oliver, Boston, Mass. (See adv. in-
dex & branch offices, end of book)

*Valves (Special Designs)

LUNKENHEIMER CO. General Of-
fices & Works, Beekman & Waverly, Cin-
cinnati, O. (See adv. index & branch of-
fices, end of book)

PITTSBURG VALVE, FOUNDRY &
Construction Co., 26th & A. V. Ry., Pitts-
burg, Pa. (See adv. index, end of book)

*Valves (Stand Pipe)

GOLDEN-ANDERSON VALVE SPE-
cialty Co. ("Anderson"), Fulton bldg., Pitts-
burg, Pa. (See adv. index, end of book)

Valves (Steam Air)

Chapman Valve Mfg. Co., Indian Orchard,
Mass.

Crane Co. (Est. 1855), 519 S Canal, Chicago,
Ill. (See adv. index & branch offices, end
of book)

Kelly & Jones Co., 135 Water, Pittsburg, Pa.

LUNKENHEIMER CO., Cincinnati, O.
(See adv. index & branch offices, end of book)

Mackay Mfg. Co. ("Mackay" Automatic), 66
James, Newark, N. J.

Marsh, J. P. & Co., 224 Wash'ton, Chicago, Ill.

MONARCH VALVE & MFG. CO., War-
ren, Mass. (See adv. index, end of book)

Stephens, Roe Mfg. Co., Detroit, Mich.
van Auken-Cleavac Co., Yonkers, N. Y.

*Valves (Steam Feed)

ALLIS-CHALMERS CO., Milwaukee,
Wis. (See adv. index & branch offices, end
of book)

Valves (Stop)

Acton, John (Safety), 118 John, Brooklyn, N. Y.

Albany Steam Trap Co., Albany, N. Y.

Belfield, H. & Co., 435 N Broad, Phila., Pa.

Bordo, L. J. Co., Inc. ("Bordo," Locomotive),
12th & Thompson, Phila., Pa.

Bourbon Copper & Brass Works, 618 E Front,
Cincinnati, O.

Coldwell-Wilcox Co., Newburgh, N. Y.

Coffin Valve Co., Neponset, Boston, Mass.

Crane Co. (Est. 1855) 519 S. Canal, Chicago, Ill.
(See adv. index, end of book)

Davis, G. M. Regulator Co. (Auto), 144 Mil-
waukee av., Chicago, Ill.

Eddy Valve Co., Waterford, N. Y.

Fairbanks Co., 186 Lafayette, New York.

Foster Engineering Co. ("Combination" Non-
Return, etc.), Newark, N. J.

French Oil Mill Machinery Co., Piqua, O.
(See adv. index, end of book)

GARDNER GOVERNOR CO., Quincy,
Ill. (See adv. index, end of book)

GOLDEN-ANDERSON VALVE SPE-
cialty Co. (Automatic), Fulton Bldg., Pitts-
burg, Pa. (See adv. index, end of book)

H. & M. Valve Co. ("H. & M." Automatic,
Single & Double), 25 Broad, New York, N. Y.

Hoffmann, B. Mfg. Co., 257 6th, Milwaukee,
Wis.

Hoffmann-Billings Mfg. Co., 178 Becher, Milwau-
kee, Wis.

Ludlow Valve Mfg. Co., Troy, N. Y.

LUNKENHEIMER CO. General Of-
fices & Works, Beekman & Waverly, Cin-
cinnati, O. (See adv. index & branch of-
fices, end of book)

MONARCH VALVE & MFG. CO., War-
ren, Mass. (See adv. index, end of book)

Morgan Engineering Co., Alliance, O.

New Bedford Boiler & Machine Co. (also Auto-
matic Stop), New Bedford, Mass.

PITTSBURG VALVE, FOUNDRY &
Construction Co., 26th & A. V. Ry., Pitts-
burg, Pa. (See adv. index, end of book)

Pratt & Cady Co., Hartford, Conn.

Rensselaer Mfg. Co., Troy, N. Y.

SCHAEFFER & BUDENBERG MFG. CO.,
(Nickel-Seated Iron & Steel), Foxboro,
Mass. (See adv. index & branch offices,
end of book)

Scott Valve Co., 231 Randolph, Chicago, Ill.

Schutte & Koerting Co., 1251 N 12th, Phila., Pa.

Stephens, Roe Mfg. Co., Detroit, Mich.

Thompson, J. & Co., c Van Horn & Sophia,
Philadelphia, Pa.

Walworth Mfg. Co. (Automatic), 132 Federal,
Boston, Mass.

Wood, R. D. & Co., 400 Chestnut, Phila., Pa.



"JOHNSON" PATENT VULCANITE RUBBER VALVES.

Absolutely the best Pump Valve made for use in steam, hot water, oil, acids or ammonia.
Do not break, chip or separate. Resist high pressures.

New York and Eastern representative, **E. P. MALLINSON, 23 Warren Street, New York.**

Cured as follows: "A" Soft, "B" Medium Soft, "C" Medium Hard, "D" Hard, "E" Extra Hard. List Price, \$1.25 per pound.
We own the patent and over a thousand moulds and are the Sole Manufacturers.

OSGOOD SAYEN,

Office:
Arcade Bldg.

Store and Warehouse:
131 Market Street,

Philadelphia, Pa.

FOR SALE BY OUR AGENTS.

WE ABSOLUTELY GUARANTEE JOHNSON VALVES.

Valves (Straightway)

(See Valves, Gate.)

Valves (Syphon)

Lipp, Louis Co. ("Boss" Double). Mitchell av. & B. & O., S. W. R. R., Cincinnati, O.

Valves (Tank)American Valve & Meter Co., Cincinnati, O.
Boston Brass Co., 36 Oliver, Boston, Mass.
Edwardsville Brass Co., Edwardsville, Ill.
Exeter Brass Works, Exeter, N. H.**FAIRBANKS, MORSE & CO. (Railroad, Flush & Float)**, Franklin & Monroe, Chicago, Ill. (See adv. index & branch offices, end of book)

Ford, Thomas P. Co. ("Ford" Balanced), 407 Broome, New York

Forest City Brass Works (Syphon), Cleveland, O.

GOLDEN-ANDERSON VALVE SPECIALTY CO. ("Anderson"), Fulton bldg, Pittsburgh, Pa. (See adv. index, end of book)

Hayden, N. L. Mfg. Co. ("Hayden" Car Relief), Columbus, O.

Waters Governor Co., Everett, Mass.

Valves (Thermostat)

Acheson Mfg. Co., Rankin, Pa.

Pittsburg Brass Mfg. Co. Penn av & 32d, Pittsburgh, Pa.

Reckets & Co. ("Reliable" Gas), Dayton, O.

Standard Heater Co., Imperial Power bldg., Pittsburgh, Pa.

Valves (Throttle)

Belfield, H. & Co., 435 N Broad, Phila., Pa.

Buckeye Iron & Brass Works, Dayton, O.

Crane Co. (Est. 1855), 519 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)

Detroit Lubricator Co. ("Detroit" "Pendry"), Hodges bldg, Detroit, Mich.

Eastwood Wire Mfg. Co., Belleville, N. J.

Eaton, Cole & Burnham Co., Bridgeport, Conn.

Hoffmann, B. Mfg. Co., 257 6th, Milwaukee, Wis.

Hoffmann-Billings Mfg. Co., 96 2d, Milwaukee, Wis.

Ide, A. L. & Sons ("Ideal"), Springfield, Ill.

LUNKENHEIMER CO. General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

Jarecki Mfg. Co., Erie & Pittsburgh, Pa.

McNab & Harlin Mfg. Co. (Brass & Iron Body), 56 John, New York, & Paterson, N. J.

MEAD-MORRISON MFG. CO. (Straightway & Balance), Cambridge (Boston), Mass., & 11 B'way, New York, N. Y. (See adv. index & branch offices, end of book)

Michigan Lubricator Co. ("Michigan" Quick Opening, Detroit, Mich.

MONARCH VALVE & MFG. CO., Warren, Mass. (See adv. index, end of book)

New Bedford Boiler & Machine Co., New Bedford, Mass.

OIL WELL SUPPLY CO., 215 Water, Pittsburgh, Pa. (See adv. index, end of book)**PITTSBURG VALVE, FOUNDRY & Construction Co.**, 26th & A. V. Ry., Pittsburgh, Pa. (See adv. index, end of book)

Powell, Wm. Co. ("Star", "U. S.", "Ready"), 2529 Spring Grove av, Cincinnati, O.

Queen City Brass & Iron Works ("Hesterberg"), Cincinnati, O.

Rellance Engineering Co. (Holsting Engine, etc.), Duluth, Minn.

Schutte & Koerting Co., 1251 N 12th, Phila., Pa.

Scott Valve Co., 231 Randolph, Chicago, Ill.

Stephens, Roe Mfg. Co. ("Goldsmith"), Detroit, Mich.

Valves (Tire)

Buck, L. K. Tire Valve Co. ("Buck"), 136 W Main, Freehold, N. J.

Valves (Tubular Well)**AMERICAN WELL WORKS, Aurora, Ill.** (See adv. index & branch offices, end of book)

Crane Co. (Est. 1855), 519 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)

Mark Mfg. Co., Evanston, Ill.

OIL WELL SUPPLY CO., 215 Water, Pittsburgh, Pa. (See adv. index, end of book)**Valves (Tuyere)**Best Mfg. Co., Pittsburg, Pa.
LUNKENHEIMER CO., General Offices & Works: Beekman & Waverly, Cincinnati, O. (See adv. index & branch, end of book)**Valves (Underwriters' Water Relief)**

American Steam Gauge & Valve Mfg. Co., 208 Camden, Boston, Mass.

CROSBY STEAM GAGE & VALVE CO., 95 Oliver, Boston, Mass.; 16 Dey, N. Y. (See adv. index & branch offices, end of book)**Valves (Vacuum, Automatic Air)**

All Metal Valve Co., 136 Liberty, New York

Atwood & Morrill ("XX," "Century"), Salem, Mass.

Belfield, H. & Co., 435 N Broad, Phila., Pa.

Consolidated Engineering Co. ("Van Auken"), cor. Jackson & Canal, Chicago, Ill.

H. & M. Automatic Regulator Co., Newark, N. J.

Klipfel Mfg. Co. ("K. & T."), 74 W Lake, Chicago, Ill.

Loetzer Valve Mfg. Co. (For Water Mains), Towanda, Pa.

Monash-Yunker Co. ("Perfected Duplex No. 7"), 201 S Canal, Chicago, Ill.

Norwall Mfg. ("Norwall"), 154 Lake, Chicago, Ill.

Schott Specialty Co. ("Duran," Automatic Vacuum Air Valve), American Trust bldg, Chicago, Ill.

Valves (Vault)

Meerhoff, Herman H. (for Outdoor Closets with Sewer Connections), Richmond, Ind.

Valves (Vulcabeston)*JOHNS-PRATT CO., THE, Hartford, Conn.** (See adv. index, end of book)**Valves (Water Relief)****AMERICAN WELL WORKS, Aurora, Ill.** (See adv. index & branch offices, end of book)

American Steam Gauge & Valve Mfg. Co., 208 Camden, Boston, Mass.

Ashton Valve Co., 271 Franklin, Boston, Mass.

CONSOLIDATED SAFETY VALVE Co., The ("Consolidated" for Fire Pumps, Pumping Stations & Hydraulic Elevators, etc.), 85, 87, 89 Liberty, New York, Works: Bridgeport, Conn. (See adv. index & branch offices, end of book)

Crane Co. (Est. 1855), 519 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)

CROSBY STEAM GAGE & VALVE CO., 95 Oliver, Boston, Mass., & 16 Dey, New York. (See adv. index & branch offices, end of book)

Davis, Geo. M. Regulator Co. (Also Semi-Balanced Seated), 144 Milwaukee av, Chicago, Ill.

Davis & Roesch Temperature Controlling Co., Newark, N. J.

D'Este, Julian Co., 24 Canal, Boston, Mass.

Fairbanks Co. ("Pratt-Cady"), 416 Broome, New York

Kunkle, E. B. & Co., Ft. Wayne, Ind.

Lonergan, J. E. & Co., 211 Race, Phila., Pa.

LUNKENHEIMER CO., General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

Powell, Wm. Co., 2529 Spring Garden av, Cincinnati, O.

Scott Valve Co., 231 Randolph, Chicago, Ill.

Sherwood Mfg. Co., Buffalo, N. Y.

Stephens, Roe Mfg. Co. ("Scott"), 1072 McKinley av, Detroit, Mich.

Walworth Mfg. Co., 132 Federal, Boston, Mass.

Watson & McDaniel Co., 144 N 7th, Phila., Pa.

Valves (Whistle)

Buckeye Iron & Brass Works, Dayton, O.

Central Brass Works, 322 W Pearl, Cincinnati, O.

Crane Co. (Est. 1855), 519 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)

CROSBY STEAM GAGE & VALVE CO., 95 Oliver, Boston, Mass., & 16 Dey, New York. (See adv. index & branch offices, end of book)

Eaton, Cole & Burnham Co., Bridgeport, Conn.

Kelly & Jones Co., 135 Water, Pittsburgh, Pa.

Works, Galesburg, Pa.

LUNKENHEIMER CO., General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)**PITTSBURG VALVE, FOUNDRY & Construction Co.**, 26th & A. V. Ry., Pittsburgh, Pa. (See adv. index, end of book)

Powell, Wm. Co., 2529 Spring Grove av, Cincinnati, O.

Queen City Brass & Iron Works, Cincinnati, O.

SCHAEFFER & BUDENBERG MFG. Co., Foxboro, Mass. (See adv. index & branch offices, end of book)

Scott Valve Co., 231 Randolph, Chicago, Ill.

Sherwood Mfg. Co., Buffalo, N. Y.

STANDARD GAUGE MFG. CO., Syracuse, N. Y. (See adv. index, end of book)

Thomas Brass & Iron Co., Waukegan, Ill.

WILLIAMS, D. T. VALVE CO., 904 B'way, Cincinnati, O. (See adv. index, end of book)***Vanners (Frue)****ALLIS-CHALMERS CO., Milwaukee**, Wis. (See adv. index & branch offices, end of book)**Variators**

American District Steam Co. (Single & Double Expansion), Lockport, N. Y.

Varnish Cloth

Silis-Eddy Mica Co., 25 Broad, N. Y.

Varnish Mfrs.**ALABAMA.**

BIRMINGHAM—Birmingham Paint Mills

CALIFORNIA.SAN FRANCISCO—**BERRY BROS. (Limited)** (of Detroit, Mich.). (See adv. index, end of book)

Murphy Varnish Co. (of Newark, N. J.), 7 Front

Occidental Varnish Works, 176 4th

Sherwin-Williams Co. (of Cleveland, O.), Tamm & Nolan Co., 117 Market 118 2d

Whittier, Coburn Co., 18 Fremont

Yates & Co., 40 Steuart

COLORADO.

DENVER—Lloyd Varnish Co., 1517 Arapahoe

CONNECTICUT.

BRIDGEPORT—Crockett, D. B. Co., 24 P. O. Arcade

MIDDLETOWN—Smith, J. O. Mfg. Co.

Parrott Varnish Co., 453 N Wash av

NEW MILFORD—Bridgeport Wood Finishing Co.

NEW HAVEN—Booth & Law Varnish Co.

NORWICH—Vacuum Varnish & Chemical Co.

DELAWARE.

WILMINGTON—Bradford, James Co., 6 E 3d

GEORGIA.

SAVANNAH—Consumers' Paint & Varnish Works

ILLINOIS.

CHICAGO—American Varnish Co. (Railway, Carriage & Cabinet), 315 N Branch

Armstrong, D. R. & Co., 24 N Ohio

Atlantic Drier & Varnish Co., 40 Dearborn

Behlen, H. & Bro., 142 Monroe

Bereda Mfg. Co., 57 Illinois

When writing to firms listed in this book please mention HENDRICKS' COMMERCIAL REGISTER

BERRY BROS. (Ltd.), 15 Lake.
(See adv. index, end of book)

Calman, Emil & Co., 239 Randolph
Chicago Varnish Co., Dearborn av & Kinzie
Chicago Wood Finishing Co., 259 Elston av
Cleveland Varnish Co., 163 S Canal
Crockett, David B. Co., 125 N Peoria
Detroit Varnish Co., 192 Kinzie
Devoe & Reynolds Co., 176 Randolph
Egyptian Lacquer Mfg. Co., 15 N Canal
Elliott Varnish Co., 155 Fulton
Elmendorf Varnish Co., 38 Larrabee
Fulton Varnish Works, 24 Ohio
Glidden Varnish Co., 159 W Wash'n
Grace Varnish Co., 125 Larrabee
Graves, N. Z. & Co., 314 Fulton
Harrison Bros. & Co. (Inc.), 27 Lake
Illinois Varnish Co., 1509 N Lincoln
Lucas, John & Co., 53 N Desplaines
Masury, John W. & Son, 2625 Stewart av
Moller & Schumann Co., 76 5th av
Murphy Varnish Co., 244 22d
Nikolas, G. J. & Co., 512 W Vanburen
Noake-Wheeler-Clough Co., 377 Illinois
Nublan Paint & Varnish Co., N 51st av, c
Bloomingtondale av

O'Brien Varnish Co., 284 Michigan
Palmer Price Co., 324 W Madison
Parrott Varnish Co., 227 5th av
Patterson-Sargent Co., 2026 Lumber
Potwin & Morgan, 35 Dearborn ave
Rogers & Pyatt, 147 Kinzie
Sherwin-Williams Co., Railway Exchange
Smith, Edward & Co., 59 Market

STANDARD VARNISH WORKS,
(Railroad, Marine, House, etc.), 2620 Ar-
mour av. (See adv. index, end of book)

Stewart, Mowry Co., 3218 Shields av
Sullivan Varnish Co., 11 Hart
Thurston, F. W. & Co., 29 River
Tousey Varnish Co., 140 Dearborn
Valentine & Co., 279 Dearborn
Vilas Bros., 227 5th av
Washburn, Thos. F., 14 Lister av
Watson, Geo. E. Co., 108 Lake
Wollweber, O. L., 254 Naslund pl

INDIANA.

INDIANAPOLIS—Indianapolis Varnish Co.,
Lilly Varnish Co., Ohio c Pine
SOUTH BEND—O'Brien Varnish Co.
VALPARAISO—Parker, Chas. H. Co.

KENTUCKY.

LOUISVILLE—Louisville Varnish Co., Maple
Ohio Falls Varnish Co., 14th & Magnolia av

MARYLAND.

BALTIMORE—BERRY BROS. (Ltd.), 29
S. Hanover. (See adv. index, end of book)
Macneal, Jas. B. & Co., Warner & Woos-
ter

Murphy Varnish Co., 1516 W Mt Royal av
Popplein, G. & N., Jr., 220 North

MASSACHUSETTS.

BOSTON—Babcock, J. & Co., 112 Water
Babcock Varnish Co., 60 Pearl
BERRY BROS. (Ltd.), 520 Atlantic
av. (See adv. index, end of book)
GILMAN, CHAS. H., 103 Merrimac
Glidden Varnish Co., 58 Pearl
Harrison Bros. & Co., 141 High
King, E. & F. & Co., 26 India
Lawson Varnish Co., 74 Pearl
McCaskell, Dougall & Co., 161 Summer
Magee Flexible Varnish Co., Old South bldg
Massachusetts Chemical Co., 170 Summer
Murphy Varnish Co., 80 Batterymarsh
Nash, E. W. Co., 88 Pearl
Poorman, Warren M., 161 Summer
Sherwin-Williams Paint Co., 186 Purchase
Standard Varnish Works, 164 Federal
Stickney, J. W. & Co., 31 Milk
Thomson, David, 11 Hawkins
Valentine & Co., 74 Pearl
Wadsworth, Howland & Co. (Inc.), 82 Wash-
ington
Wiley, I. H. & Co., 92 Sudbury
CHELSEA—Miller, Lyman M.
EVERETT—Boston Varnish Co.
West Varnish Co.
MIDDLEBORO—Shaw, Geo. H.
SPRINGFIELD—Hampden Paint & Chemical
Wadsworth, Howland & Co.

MICHIGAN.

DETROIT—Acme White Lead & Color Works, c
St. Aubin av & M. C. R. R.
BERRY BROS. (Ltd.), Main Office
& Factory. See adv. index, end of book
Boydell Bros., White Lead & Color Co., 16
Congress
Buckeye Paint & Varnish Co., 715 Gratiot
av
Continental Varnish & Paint Co., c Clay &
Dempsey, S. J., 786 River St. Aubin avs
Detroit Varnish Co., 532 Milwaukee av
Detroit White Lead Wks., 532 Milwaukee av
Jageman, F. J., Whiting av & M. C. R. R.
Belt Line
Kaighin-Roberts Varnish Co., 1503 Wood-
ward av
McNamara, Michael, Clark av & M. C. R. R.
Peninsular Paint & Varnish Co., St. Aubin
& Clay avs

MINNESOTA.

ST. PAUL—Twin City Varnish Co.

MISSOURI.

KANSAS CITY—Cleveland Varnish Co., 1204
Walnut
Continental Varnish & Color Co., 1315
W 8th
Sherwin-Williams Co., 1400 St. Louis av
ST. LOUIS—BERRY BROS. (Limited),
112 S 4th. (See adv. index, end of book)
Chicago Varnish Co., 823 Locust
Cleveland Varnish Co., 908 N 2nd
Glidden Varnish Co., 701 N 2d
Gregg Varnish Co., 813 N 6th
Hoffman Varnish Co., 2702 S Jefferson av
Murphy Varnish Co., 300 S 4th
Pratt & Lambert, 1015 Lucas av
Robbins, A. Varnish Co., 1537 N 8th
Rowley Lac-Varnish & Blacking Co., 910
N 2nd
Wellpott, Chas. H. W. Varnish Wks.,
3220 N B'way

NEW JERSEY.

CAMDEN—Graves, N. Z. Co.
Schrack, C. & Co.
GIBBSBORO—Lucas, John & Co.
JERSEY CITY—Empire Varnish Co., 14th &
Erie
Gillespie, Chas. H. & Sons, 125 Dey
New Jersey Paint Works (Louderbough, Hy.,
Prop.)
Woolsey, C. A. Paint & Color Co.
NEWARK—Anglo-American Varnish Co., 55
Johnson
Armitage, Jno. L. & Co., Thomas & Daw-
son
Beckwith-Chandler Co., 201 Emmett
Bigelow Varnish Co., 136 Chestnut
Connaughton, Jas. M., 550 12th av
Devoe, F. W. & C. T. Reynolds Co., 223 N.
J. R. R. av
Essex Varnish Co., 84 Vesey
Flood & Conklin Co., 136 Chestnut
Hagel, Jno. F. Jr., 35 Napoleon
Jaenecke Printing Ink Co., Wright c Av B
Mitchell-Mallon Co.
Murphy Varnish Co., 238 McWhorter
Newark Varnish Works, Delancy c Adams
Palmer Price Co., 270 Chestnut
Rice, S. E. M. Filler Co., 21 Abel
Shedwin-Williams Co., Brown & Lister av

NEW YORK.

BINGHAMTON—Collier, H. C. & Sons
BROOKLYN—(See New York City, Borough of
Brooklyn)
BUFFALO—Buffalo Enamel & Stain Co., 70
W Genesee
Columbia Paint & Varnish Co., 12 San-
ford
Fritzsche & Kleason, 42 Eagle
McDougal Varnish Co., 1317 Elk
McLennan Paint Co. (Ltd.), 155 Rano.
LONG ISLAND CITY—(See New York City,
Borough of Queens.)

When writing to firms listed
in this book please mention
HENDRICKS'
COMMERCIAL REGISTER

NEW YORK CITY.**Borough of Brooklyn.**

BROOKLYN—Bartels, Otto, Stewart av nr
Randolph
Bohner's, Jos. Sons, 1093 Met av
Booden's, P. Son, 243 N 9th
Brooklyn Varnish Mfg. Co., 35 Nostrand av
Bungart, Peter J., 295 G'point av
Hatch, Jno. R., 171 N 9th
Hildreth Varnish Co., 77 N 12th
Keystone Varnish Co., 1 Sigourney
Masury, John W. & Son, 50 Jay
Minnett Varnish Co., 1046 Atlantic av
Moller & Schumann Co., Marcy & Flushing
Pierce, F. O. Co., 30 Tiffany pl
Travers-Bailey Co., 80 Richardson
Valentine & Co., 364 Mtn av
Wood & Shepard Varnish Co., 33 Wythe av

Boroughs of Manhattan & Bronx

NEW YORK—Alden, Geo. A. & Co., 290 B'way
Anchor Varnish Works, 175 Front
Atlantic Drier & Varnish Co., 1123 B'way
Bang, Chas., 136 Water
Banzai Mfg. Co., 24 E 23d, New York
Beckwith-Chandler Co., 5th av & 32d
Behlen, Herman & Bro., 5 N William
BERRY BROS. (Limited), 262
Pearl. (See adv. index, end of book)
Billings, King & Co., 438 Pearl
Calman, Emil & Co., 299 Pearl
Carter, Chas. W. H., 12 Vandewater
Celluloid Zapon Co., 256 4th av
Chicago Varnish Co., 22 Vesey
Congress Varnish Works, 239 Front
Crescent Varnish Co., 262 Pearl
Devoe, F. W. & C. T. Reynolds Co., 101
Dunham, Thos. C., 68 Murray
Edmonds, J. W. & Son, 216 Franklin
Egyptian Lacquer Mfg. Co., 152 Front
Elliott Varnish Co., 77 Warren
Excelsior Varnish Works, 381 Pearl
Federal Varnish Co., 299 B'way
Glidden Varnish Co., 47 Fulton
Graves, N. Z. & Co., 286 Pearl
Harland, Wm. & Son, 168 Centre
Hildreth Varnish Co., 32 B'way
Kasebier, E. & Co., 175 Pearl
Longman & Martinez, 207 Pearl
Loudersback, A. E. (Agt.), 118 Hudson
Lucas, John & Co., 89 Maiden Lane
McLennan Paint Co., 163 William
Mayer & Lowenstein, 164 Water
Maynz & Co. (Brewers' Varnish), 13 Water
Metal Lacker Co., 83 Pine
Minett Varnish Co., 12 Pearl
Mitchell-Mallon Co., 1648 B'way
Pierce, F. O. Co., 170 Fulton
Pioneer Varnish Works, 136 Water
Pomeroy & Fischer (Agents), 30 Frankfort
Pratt & Lambert, 176 Fulton
Reade Mfg. Co., 546 W 22d
Rogers & Pyatt, 78 Malden la
Rosenberger, Julius, 175 Front
Schlegel, Oscar Mfg. Co., 111 E 12th
Sherwin-Williams Co., 66 B'way
Slee, J. Noah H., 141 B'way
Smith, Edw. & Co., 45 B'way
STANDARD VARNISH WORKS
(Railroad, Marine, House, etc.), 29 B'way
(See adv. index, end of book)
Stoeckel, Rudolph E., 2449 3d av
Thuebel, S. H., 130 Pearl
Valentine & Co., 257 B'way
Victorson Varnish Co., 299 Pearl
Winn, Wm. R. (Oil), 143 Maiden Lane
Zinsser, Wm. & Co., 197 William

Borough of Queens.

LONG ISLAND CITY—Pratt & Lambert, 9 4th
Calman, Emil & Co., 4th & West av
Chase, Roberts & Co., c West av & 5th
Fenner, Geo. L., 8th & West
Mayer & Lowenstein, 164 Water
Liszka, Irma, Glendale, L. I.
Smith, Edw. & Co. (Inc.), ft 5th
Thibaut, E. A. & Co., 72 9th
Varnish Co.
Victorson Varnish Co., West End av c 4th
(END OF NEW YORK CITY)
TROY—Dauchy, Chas. H. & Co., 279 River
DeGolyer Varnish Co., 1529 6th av
UTICA—Central New York Varnish Co., 55 N
Genesee

OHIO.

AKRON—Akron Varnish Co.
Vulcan Varnish Works
CANTON—Canton Paint & Varnish Co.
CINCINNATI—Barrett Mfg. Co., 539 Carr
Becker, R. A. & Co., Harrison av & Gar-

BERRY BROS. (Limited), 420
Main (See adv. index, end of hook)
Blackburn-Nolan Varnish Co., Langdon &
Floral avs

Chicago Varnish Co., Perin bldg
Cincinnati Color Co., w s Depot nr Dutton
Cincinnati Varnish Co., 218 E Court
Harrison Bros. & Co., 308 Main
Pfaff, Jno., Varnish & Stain Co., 1660 Cen-

tral av
Queen City Varnish Co., Langdon av &
Montg'y rd

Sherwin-Williams Co., St. Paul bldg
United States Varnish Co., 2618 Colerain
Wolf, Herman & Co., 214 W Liberty
CLEVELAND—Barrett Mfg. Co., Williamson
Billings-Chapin Co., 43 Case av
Cleveland Varnish Co., 14 Rockland av
Colonial Paint Co. (Tile Like), Marquette
nr St. Clair

Day Varnish & Dryer Co., 468 Canal
Empire Varnish Co., 24 Guard
Excelsior Varnish Works, 1 Pembroke
Forest City Paint & Varnish Co.
Glidden Varnish Co., Rockefeller bldg
Kingsley Paint Dryer Co., 172 St. Clair
Murphy Varnish Co., 96 St. Clair
Nat'l Paint & Varnish Co., 57 St. Clair
Newark Varnish Works, Bldrs Exchange
Ohio Varnish Co., 10 Rockland av
Patterson-Sargent Co., Wason c Hamilton
Sherwin-Williams Co., 100 Canal
Star Varnish Co., 47 Gordon av
Venderink, B. T. Co., Bldrs' Exchange
Western Reserve Varnish Co., Marquette c
Lake

COLUMBUS—Columbus Varnish Co., 357 Coz-
Onyx Paint Co., 73 E Long zens

DAYTON—Kay & Ess Co.
Thresher Varnish Co.
Tower Varnish & Dryer Co.
FINDLAY—Ohio Paint & Varnish Co.
TOLEDO—Buckeye Paint & Varnish Co.

PENNSYLVANIA.

ALLEGHENY—Connolly, Thos. A., 18 Park-
Eagle Paint & Varnish Co. way
National Lead & Oil Co. of Penna., 2d
National Bk Bldg

Pittsburg Iron Paint Co., Allegheny, Pa.
JAMESTOWN—Jamestown Paint & Varnish Co.
NORRISTOWN—Norristown Varnish Co.
LANCASTER—Lancaster Paint & Glass Co
(Shellac)

PHILADELPHIA—Adams, Thos. J. & Co., 3605
N 4th

Atlantic Drier & Varnish Co., S Swanson c
McKean

BERRY BROS. (Ltd.), N. 4th.
(See adv. index, end of hook)

Coyne Bros., Varnish Co., N 2d c Pike
FRENCH, SAMUEL H. & CO., 4th
& Callowhill. (See adv. index, end of hook)

Graves, N. Z. & Co., 3200 S Broad
Harrison Bros. & Co., 35th c Gray's Ferry rd
Haufler, Fk. G., 2534 Emerald

Howell, C. H. & Co., 212 Race
Lucas, John & Co., 322 Race

McCloskey, L. J. & Co., S 30th c Locust
Marshall, D. & Co., 133 Arch
Nassau, Jas., Ktn av c Erie av

Schraack, C. & Co., 152 N 4th
Shoemaker, Robt. & Co., 4th & Race
Standard Varnish Works, Phila., Bourse
(See adv. index, end of hook)

THOMSON WOOD FINISHING CO.,
115 N 4th. (See adv. index, end of hook)

Wocher, H. M. & Son, 1218 W College av
Woodhouse, Samuel F. ("Dull Eline"),
Unity & Franklin

PITTSBURG—ATLAS PAINT CO. (Ltd.),
2640 Liberty av. (See adv. index, end of
book)

Globe Varnish Mfg. Co., 61st & Butler
Iron City Oil & Varnish Co., Inwood &
Frankstown

Lawrence, W. W. & Co., W Carson nr Point
Bridge

McClintock & Irvine Co., Neville & P R R
Macon-Evans Varnish Co. (Insulating "Elec-
trolac")

Pittsburg Varnish Co., 2640 Liberty av
Sterling Varnish Co., 307 4th av

READING—Ruth, B. F. & Co.
Wilhelm, A. Co.

TULLYTOWN—Tulley Paint & Varnish Co.

RHODE ISLAND.

PROVIDENCE—U. S. GUTTA PERCHA
Paint Co., 12-30 Dudley. (See adv. index,
end of book)

VIRGINIA.

RICHMOND—Armitage Mfg. Co.
Atlantic Varnish Works, 2829 Lester

WASHINGTON.

SEATTLE—Seattle Paint Co., 309 1st av.

WISCONSIN.

MILWAUKEE—Milwaukee Varnish Co., 225
Washington
Smith Paint & Varnish Co., 329 Chestnut

**Varnish Manufacturers' Sup-
plies**

Stoermer, F. R., 92 William, New York

Varnish Removers

(See Paint & Varnish Removers)

Varnish Renovator

(See also Paint & Varnish Remover)

Aquart, A. D. (Cleaning & Polishing), Chemi-
cal bldg., St. Louis, Mo.

***Varnishes (Agricultural Imple-
ments)**

STANDARD VARNISH WORKS, 29
B'way, New York. (See adv. index & branch
offices, end of book)

Varnishes (Asphaltum)

Allentown Mfg. Co., Allentown, Pa.
Atlantic Drier & Varnish Co., Drexel bldg,
Phila., Pa.

ATLAS PAINT CO. (Ltd.), 2638 Lib-
erty av, Pittsburg, Pa. (See adv. index,
end of book)

Armitage Mfg. Co., Richmond, Va.
Canton Paint & Varnish Co., Canton, O.
Chicago Varnish Co. (Black), Dearborn &
Kinzie, Chicago

Eagle Paint & Varnish Co., Allegheny, Pa.
Forest City Paint & Varnish Co., Cleveland, O.
Fort Pitt Oil & Paint Co., 3208 Penna. av.,
Pittsburg, Pa.

FRENCH, SAMUEL H. & CO., 4th &
Callowhill, Phila., Pa. (See adv. index, end
of hook)

Harrison Bros. & Co. (Inc.), 35th c Gray's Ferry
rd, Phila., Pa., & 117 Fulton, N. Y.
Hommel, O. Co., 400 Duquesne Way, Pitts-
burg, Pa.

Indian Refining Co. (Black), Georgetown, Ky.
Kay & Ess Co., Dayton, O.
Lucas, Jno. & Co., 322 Race, Phila., Pa.

McClintock & Irvine Co., Neville & P. R. R.,
Pittsburg, Pa.
McLennan Paint Co. (Ltd.), 175-195 Reno,
Buffalo, N. Y.

Macneal, Jas. B. & Co., Warner & Wooster,
Baltimore, Md.
O'Brien Varnish Co., South Bend, Ind.

Parker, Chas. H. Co. (Baking & Air Drying),
Valparaiso, Ind.
Sherwin-Williams Co., 104 Canal, Cleveland,
Ohio

Smith, Edw. & Co. (Black), 45 B'way, New
York

STANDARD VARNISH WORKS 29
B'way, New York. (See adv. index and
branch offices, end of hook)

Stickney J. W. & Co., 31 Milk, Boston, Mass.
THOMSON WOOD FINISHING CO.,
115 N 4th, Phila., Pa. (See adv. index,
end of hook)

Walker-Cromwell Co., Kearney, N. J.
Warren Bros. Co., 93 Federal, Boston, Mass.
Wilhelm, A. Co., Reading, Pa.

Varnishes (Automobile)

(See Varnishes, Railway & Carriage)

***Varnishes (Baking)**

THOMSON WOOD FINISHING CO.,
115 N 4th, Phila., Pa. (See adv. index,
end of book)

Varnishes (Cotton Tie)

McClintock & Irvine Co., Neville & P. R. R.,
Pittsburg, Pa.

***Varnishes for all Manufactur-
ing Purposes**

STANDARD VARNISH WORKS, 29
B'way, New York. (See adv. index & branch
offices, end of book)

***Varnishes (Furniture)**

STANDARD VARNISH WORKS, 29
B'way, New York. (See adv. index & branch
offices, end of hook)

***Varnishes (House)**

STANDARD VARNISH WORKS
(Elastica Finishes, Gutta Percha, Hard Oil
Finish, Standard Turpentine, Shellac, etc.),
29 B'way, New York. (See adv. index &
branch offices, end of book)

Varnishes (Marine)

BERRY BROS. (Limited), Main Of-
fice & Works, Detroit, Mich. (See adv. index
& branch offices, end of hook)

Canton Paint & Varnish Co., Canton, O.
Cole & Kuhls ("Elastic" Deck Varnish), 23d
& 3d av, Brooklyn, N. Y.

FRENCH, SAMUEL H. & CO., 4th &
Callowhill, Phila., Pa. (See adv. index, end
of book)

Lucas, John & Co., 322 Race, Phila., Pa.
Sherwin-Williams Co., 104 Canal, Cleveland, O.
STANDARD VARNISH WORKS, 29
B'way, New York. (See adv. index & branch
offices, end of book)

THOMSON WOOD FINISHING CO.,
115 N 4th, Phila., Pa. (See adv. index,
end of hook)

Winn, Wm. R. (Spar, etc.), 143 Maiden Lane,
New York

Varnishes (Railway & Carriage)

American Varnish Co., 315 N Branch, Chicago,
Ill.

Beckwith-Chandler Co., 5th av. & 32d, New York
BERRY BROS. (Limited), Main Of-
fice & Works, Detroit, Mich. (See adv. index
& branch offices, end of hook)

FRENCH, SAMUEL H. & CO., 4th &
Callowhill, Phila., Pa. (See adv. index, end
of hook)

Lucas, John & Co., 322 Race, Phila., Pa.
Sherwin-Williams Co., 104 Canal, Cleveland, O.
STANDARD VARNISH WORKS, 29
B'way, New York. (See adv. index & branch
offices, end of hook)

THOMSON WOOD FINISHING CO.,
115 N 4th, Phila., Pa. (See adv. index,
end of hook)

***Varnishes (Shellac)**

BERRY BROS. (Limited), Main Of-
fice & Factory, Detroit, Mich. (See adv. in-
dex & branch offices, end of hook)

Varnishes & Japans (Asphalt)

Barrett Mfg. Co., Land Title bldg, Phila., Pa.;
17 Battery pl., New York.

Canton Paint & Varnish Co., Canton, O.
Chattanooga Roof & Paving Co., Chattanooga,
Tenn.

Chicago Wood Finishing Co., 259 Elston av,
Chicago, Ill.

Densmore-Stahler Refining Co., Los Angeles, Cal.
Ford Mfg. Co., 109 W. Wash'n, Chicago, Ill.

FRENCH, SAMUEL H. & CO., 4th &
Callowhill, Phila., Pa. (See adv. index,
end of book)

Globe Asphalt Co., Bakewell bldg, Pittsburg,
Indian Refining Co., Georgetown, Ky.
Jewett-Blodget Oil Co., Bakersfield, Cal.
Smith, Edw. & Co., 45 B'way, New York
Southern Roofing Co., Atlanta, Ga.

RAILWAY VARNISHES
CARRIAGE VARNISHES
INSULATING VARNISHES
AND COMPOUNDS

HOUSE VARNISHES
FURNITURE VARNISHES
CABINET FINISHES
MARINE VARNISHES

VARNISHES

JAPANS, ENAMELS AND LACQUERS

=====FOR ALL PURPOSES=====

PRICE LIST ON APPLICATION

STANDARD VARNISH WORKS

THE LARGEST VARNISH WORKS IN THE WORLD

LONDON
BERLIN

NEW YORK

CHICAGO
BRUSSELS

CANADIAN BRANCH, INTERNATIONAL VARNISH CO., LIMITED, TORONTO, ONT.

LUXFER SIDEWALK LIGHTS IN REINFORCED CONCRETE SETTING

BEST FOR BASEMENT LIGHTING

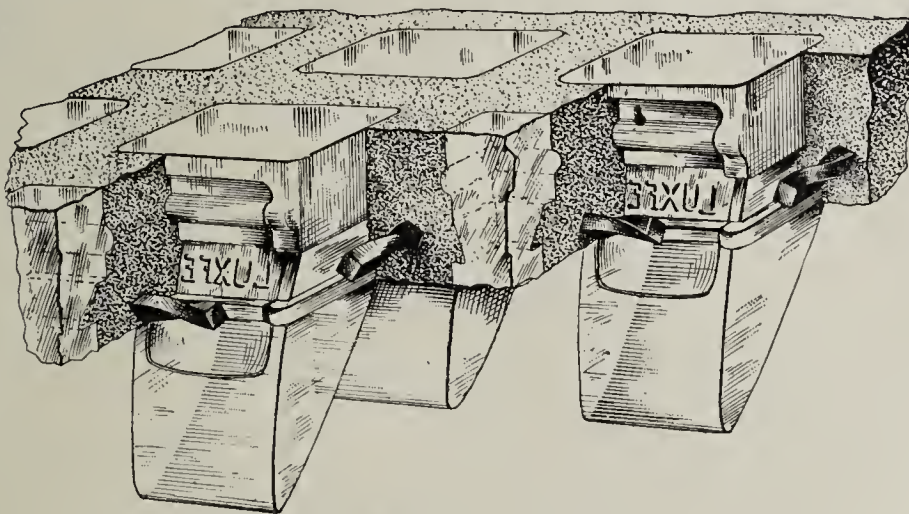
LUXFER PRISM

TILE No Iron Frames
No Rusting

Great Strength and
Durability

Waterproof and Free
From Condensation

Note the twisted
TENSION RODS
shown in illustration



LUXFER BLANK

TILE All Steel Imbedded
in Cement

LUXFER PRISMS
in reinforced Con-
crete Setting Have
No Equal.

Architects and Engineers
are agreed upon the EXCEL-
LENCE of this work.

RANSOME SYSTEM

ALL WORK INSTALLED AT THE BUILDING BY OUR OWN SKILLED WORKMEN.

AMERICAN LUXFER PRISM COMPANY

160 Fifth Ave.
NEW YORK

Heyworth Bldg.
CHICAGO

Garfield Bldg.
CLEVELAND

15 Federal St.
BOSTON

New York Life Bldg.
KANSAS CITY

Thoms Bldg.
CINCINNATI

Pembroke Arcade
INDIANAPOLIS

Ryan Bldg.
ST. PAUL

608 Chestnut St.
PHILADELPHIA



**STAR SPANGLED
ROOFING TIN
GUARANTEED
FOR
25 YEARS**

SEND FOR SAMPLE
COPY OF GUARAN-
TEE AND PRICES

**THE BEST
ROOFING
IN THE
WORLD**



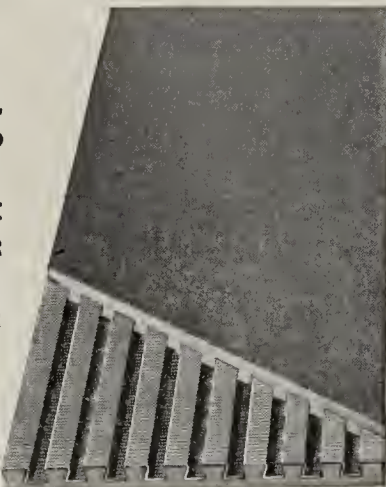
HEAVY
PLATES,
FOR ROOFS,
WALLS AND
FLOORS
WHICH CAN BE
CONCRETED OR
CEMENTED ON
TOP OR OUTER
SIDE AND PLAS-
TERED ON THE INNER
SIDE.

**FIRST COST
FINAL COST**

FERRO-LITHIC PLATE, CEMENTED ON TOP
AND PLASTERED UNDERNEATH

FERRO-LITHIC PLATES

FOR INTERLOCKING SYSTEM OF
CONCRETE REINFORCEMENT



THE PLATES REINFORCE
THE CEMENT AND PRE-
VENT CRACKING OR
DISINTEGRATION.

THE CEMENT AND
PLASTER PRESERVE
THE PLATES AND
MAKE
AN
EVERLASTING
GOOD
ROOF.

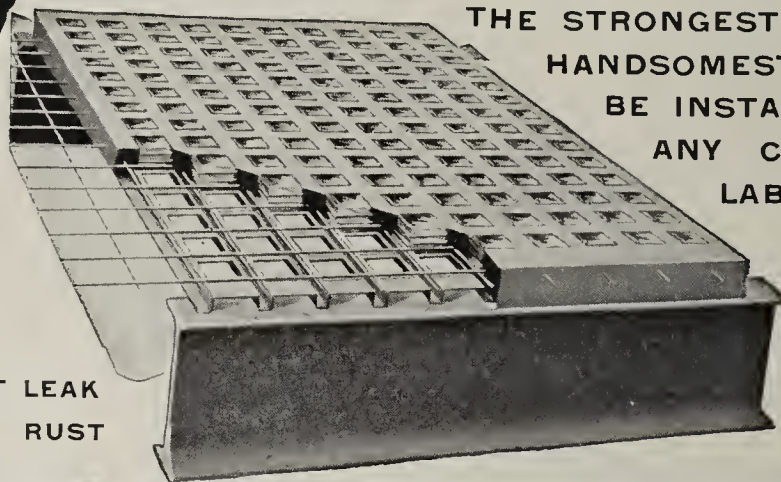
USE
BERGER'S
"CLASSIK"
STEEL
CEILINGS

ELEVEN STYLES
614 PATTERNS



BERGER'S VAULT LIGHTS

THE STRONGEST, LIGHTEST
HANDSOMEST. CAN
BE INSTALLED BY
ANY COMMON
LABORER



CAN NOT LEAK
WILL NOT RUST



WE
ALSO
MAKE
PURE

KNOBBLD
REHAMMERED
CHARCOAL IRON
SHEETS, BLACK
AND GALVANIZED.

ARCHITECTURAL
SHEET METAL WORK
STEEL WINDOW
FRAMES AND SASH.

STEEL OFFICE
AND BANK FURNITURE.

MULTIPLEX STEEL
PLATES FOR FLOORS
AND ROOFS, BRIDGE
FLOORS, ETC., ETC., ETC.

PRONG LOCK SYSTEM OF
STEEL STUDS AND FURRING

SEND FOR CATALOGUES AND PRICES

WRITE FOR THE EXCLUSIVE AGENCY

THE BERGER MFG. CO.

NEW YORK
BOSTON

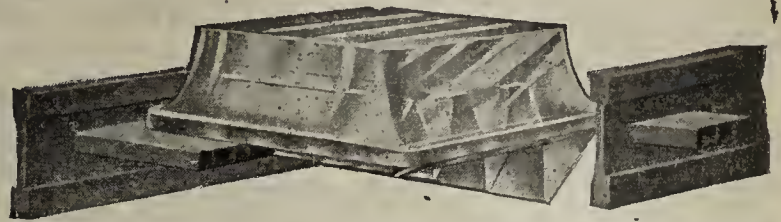
CANTON, OHIO
SAN FRANCISCO

PHILADELPHIA
ST. LOUIS

EFFECTIVE SIMPLICITY IN SIDEWALK LIGHTS

PASCHALL INTERLOCKING SYSTEM

Galvanized Wrought Steel Beam Construction

with 3-WAY
PRISMS give
Maximum
Strength

Maximum Light Area Minimum Cost

PAVEMENT LIGHTS

FLOOR LIGHTS

SKYLIGHTS

Manufacturers of SHEET PRISM, WIRE PRISM and PRISMATIC TILES.

AMERICAN 3-WAY PRISM CO.,

134 North Tenth Street,
PHILADELPHIA, PA.Southern Refining Co., Los Angeles, Cal.
THOMSON WOOD FINISHING CO.,
115 N 4th, Phila., Pa. (See adv. index,
end of book)Trinidad Asphalt Mfg. Co. ("The Epure"), 320
S 21st, St. Louis, Mo.
Union Oil Co. (of California), Mills bldg, San
Francisco, Cal.

*Vases, Fountains, Etc.

UNION EQUIPMENT AND BRONZE CO.

520 W 36th, N. Y. (See adv. outside stencil)

*Vats (Cypress)

CYPRESS LUMBER CO., 88 Broad.
Boston, Mass., & Apalachicola, Fla. (See
adv. index, end of book)

Vault Doors

(See Bank Vaults.)

*Vault Fronts & Doors

HALL'S SAFE CO., Main Office &
Works, Spring Grove av, Cincinnati, O.
(See adv. index, end of book)**OHIO STRUCTURAL IRON CO. (Doors**
& Gates), Sandusky, O. (See adv. index, end
of book)

Vault & Floor Lights (Bar-Lock)

AMERICAN BAR LOCK CO. (3-Point
Prisms), Land Title bldg, Phila., Pa. (See
adv. below)Taylor, E. R. & Co. (Bar Lock System), 164
Federal, Boston, Mass., & 160 5th av, New
YorkVault & Office Furniture
(Metallic)

(See Bank & Office Fixtures, Metallic.)

Vault & Sidewalk Lights (Plain
& Prismatic)**AMERICAN BAR LOCK CO. ("Bar**
Lock System"), 26th & Penna. av, Phila.,
Pa. (See adv. below)**AMERICAN LUXFER PRISM CO.,**
General Office & Factory, Heyworth bldg,
cor Wabash av & Madison, Chicago, Ill.;
160 5th av, New York. (See adv. index &
branch offices, end of book)**AMERICAN MASON SAFETY TREAD**
Co., 7021 Old South bldg, Boston, Mass.
(See adv. index & branch offices, end of
book)**AMERICAN 3-WAY PRISM CO. (3-**
Way Prisms), 134 N 10th, Phila., Pa. (See
adv. above)**AMOS, CHARLES & CO., 94 W**
Larned, Detroit, Mich. (See adv. index,
end of book)**BAKER MFG. CO., Allegheny &**
South avs, Allegheny, Pa. (See adv. on fol-
lowing page)Barnum, E. T. Wire & Iron Works, Detroit,
Mich.

Bartlett, Haywood & Co., Baltimore, Md.

BERGER MFG. CO. ("Berger" Lu-
minous), Canton, O. (See adv. index &
branch offices, end of book)**BOLLES, J. E. IRON & WIRE**
Works, 4th av & Porter, Detroit, Mich.
(See adv. index, end of book)Brooklyn Vault Light Co. (Plain & Prismatic).
Norman av & Henry, Brooklyn, N. Y.**BROOKS, T. H. & CO., Cleveland, O.**
(See adv. index, end of book)**BROWN BROS. MFG. CO., 22d &**
Campbell av, Chicago, Ill. (See adv. index,
end of book)Brown-Ketcham Iron Works, Indianapolis, Ind.
Bruner, P. M. Granitoid Co., 904 Olive, St.
Louis, Mo.**CHAMPION IRON CO., Kenton, O.**
(See adv. index, end of book)Chelmsford Foundry Co., 159 Devonshire, Bos-
ton, Mass.Chesapeake Iron Works, Severn & Bayard,
Baltimore, Md.**CHICAGO SIDEWALK LIGHT CO.**
(Mfrs.), 101 Washington, Chicago, Ill.
(See adv. index, end of book)Christopher & Simpson Arch'l Iron & Foundry
Co., 811 Park av, St. Louis, MoCornell, J. B. & J. M. Co. (Mfrs.), 26th & 11th
av, New YorkCreswell, S. J. Iron Works, 23d & Cherry,
Phila., Pa.Crown Iron Works Co., 115 2d av, Minneapolis,
Minn.

Dauchy Iron Works, 88 Illinois, Chicago, Ill.

Dauphin, Wm., 131 W 33d, New York

DONOVAN WIRE & IRON CO., Chicago
St. & W. & L. E. R'y, Toledo, O. (See
adv. index, end of book)Ernst's, Chas. F. Sons, 65 Lathrop, Buffalo,
N. Y.

Fletcher & Crowell Co., Portland, Me.

Grossman Bros. & Rosenbaum, 540 W 58th,
New York

Ham, L. M. & Co., 132 Portland, Boston, Mass.

Hammill, Alex., 426 Montgomery, Jersey City,
N. J.Hetherington & Berner, 19 W South, Indian-
apolis, Ind.

Heughes, F. L. 190 South av, Rochester, N. Y.

Jackson, P. H. & Co., 228 1st, San Francisco,
Cal.

Jacobs & Sons (Mfrs.), 510 Pearl, N. Y.

KAMMAN, WALTER, Front & Lawrence,
Cincinnati, O. (See adv. index, end of
book)Kleinschnitz, K. & Co., 61 Noble, Brooklyn,
N. Y.

Love Bros. (Inc.), Aurora, Ill.

Lucas, A. & Sons (Plain & Prismatic), Peoria,
Ill.

SIDEWALK LIGHTS, FLOOR LIGHTS AND SKYLIGHTS.

The new "PORCELITE BAR-LOCK"
Wrought Steel Construction with "3-Point"
Prisms or "Arch" Plain Lights is guaranteed
superior to anything now on the market at any
price, yet is sold in competition with the cheapest.

"Porcelite Bar-Lock" Wrought Steel Construction, Doors and Coal Hole Covers

MANUFACTURED ONLY BY

AMERICAN BAR-LOCK COMPANY,

26TH AND PENNA. AVE., PHILADELPHIA, PA.

Madison Avenue Foundry Co. (Founders), 155 E Madison av, Cleveland, O.

Mark, Jacob Sons (Mfr.), 7 Worth, New York
Megquier & Jones Co., Portland, Me.

MERRITT & CO., 1024 Ridge av,
Phila., Pa. (See adv. index, end of book)

Mesker, Geo. L. Co., Evansville, Ind.

Mills, W. J., 423 Kent av, Brooklyn, N. Y.

MINNEAPOLIS STEEL & MACHIN-
ery Co., Minneapolis, Minn. (See adv. in-

dex & branch offices, end of book)
N. J. Foundry & Machine Co., 9 Murray, New

NEW YORK GLASS CO., 396 Canal,
New York. (See adv. index, end of book)

NEW YORK PRISM CO., 473 W. B'way
New York, N. Y. (See adv. index, end of

book)
Northwestern Foundry, 312 S 10th, S Minne-

apolis, Minn.
Ornamental Iron & Wire Co. (Inc.), Portsmouth,

Va.
Phoenix Steel Co., Inc. ("Phoenix Hyatt"), Put-

nam & P. R. R., Pittsburgh, Pa.
Ransome & Smith Co., 11 B'way, New York

Blchards & Kelly Mfg. Co. (Mfrs.), 389 23d,
Chicago, Ill.

RIESECK, P., c Allegheny av &
Rebecca, Allegheny, Pa. (See adv. index,

end of book)
RUSSEL WHEEL & FOUNDRY CO.,

Detroit, Mich. (See adv. index, end of book)
ST. PAUL FOUNDRY CO., Como av

& Topping, St. Paul, Minn. (See adv. in-

dex, end of book)
Schreiner, L. & Sons Co., Eggleston av & 8th,

Cincinnati, O.
Smlth, G. W. & F. Iron Co. (Mfrs.), 166 Devon-

shire, Boston, Mass.
SMITH, F. P. WIRE & IRON WORKS,

100 Lake, Chicago, Ill. (See adv. index,

end of book)
Smith & Lovett Co., 125 Albany, Boston, Mass.

Snead Arch'l Iron Works, Louisville, Ky.
Southern Foundry Co., Owensboro, Ky.

Stewart & Stevens Iron Works, 9th c Montg'y
av, Phila., Pa.

Taylor, E. R. & Co. ("Bar-Lock" System), 164
Federal, Boston, Mass., & 160 5th av, New

York
Toledo Wire & Iron Works, Toledo, O.

Tucker & Vinton (Inc.) (Steel Concrete), 156 5th
av, New York

Union Building & Cons. Co., Passaic, N. J.
Union Iron & Foundry Co., 1452 S 2d, St.

Louis, Mo.
Van Dorn Iron Works Co., 1793 E Madison av,

Cleveland, O.
VULCAN CO., Detroit, Mich. (See

adv. index, end of book)
Wallace Foundry & Machine Co., Lafayette, Ind.

Ward, Wm. E. & Co., 1347 Central av, Cin-

cinnati, O.
West Side Structural Co., Troy, N. Y.

WISCONSIN IRON & WIRE WORKS,
190 E Water, Milwaukee, Wis. (See adv.

index, end of book)

Vehicles (Children's)

Kirk-Latty Mfg. Co. (Express Wagons, All

Steel), Cleveland, O.
Meinecke, Adolph & Son (Go-Carts), ft of Ma-

son, Milwaukee, Wis.

Veneer Built-Up Woods

Ahnapee Veneer & Seating Co., Algoma, Wis.
American Veneer Co., Kenilworth, N. J.
Frost Veneer Seating Co., Sheboygan, Wis., &
208 Canal, New York

Veneer Cutting Machines

(See Machines, Veneer Cutting)

Veneer Mfrs.

Adams & Raymond, Indianapolis, Ind.
Advance Veneer & Lmbr. Co., Indianapolis, Ind.
Ahnapee Veneer & Seating Co., Algoma, Wash.
Aikslie, Geo. & Co., Portland, Ore.
Althoe, D. Co., 200 Lewis, New York, & Cincin-

nati, O.
American Veneer Co. (Furniture Panels & In-

terior House Panels), Kenilworth, N. J.
American Veneer Co., Wells River, Vt.

Ashville Veneer Co. (Veneers & Panels), Ash-

ville, N. Y.
Astoria Veneer Mills, Long Island City, N. Y.

Beach & Fuller Co., Evansville, Ind.
Becker, R. B. (Wholesale), Pickering bldg,

Cincinnati, O.
Beeson, Fred (Importer), c Kinzle & Armour,

Chicago, Ill.
Beldenville Lumber Co., Waverly, Wis.

Blair & De Larm Veneer Co., West Charles-

ton, Vt.
Bohm Mfg. Co., St. Paul, Minn.

Boyd, C. O. & Co., Glenn bldg, Cincinnati, O.

Bowers Mfg. Co. (Built-up), Harrison, N. J.

Branch, W. W. Veneer & Lumber Co., Charles-

ton, W. Va.
Buren Veneer Co., 117 S 2d, Phila., Pa.

Burton, C. H. & Co., c John & Augusta, Cincin-

Chicago Veneer Co., Burnside, Ky. natl. O.

Cincinnati Veneer Co., 128 W 6th, Cincinnati, O.

Clements, Ross Mfg. Co., Thomasville, N. C.

Crocker Chair Co., Sheboygan, Wis.

Colby-Hinkle Co., Benton Harbor, Mich.

Dann Bros. & Co. (Veneers & Panels), New

Haven, Conn.
Dwight Lumber Co., Detroit, Mich.

Elmwood Mfg. Co., Spring Valley, Wis.

Eggers, Fred Veneer Seating Co., Two Rivers,

Wis.
Emery, George D., Chelsea, Mass.

Evansville Veneer Co., Evansville, Ind.

Frost Veneer Seating Co., Sheboygan, Wis.

Gale Mfg. Co., Warren, Pa.

Glidden Veneer Co., Glidden, Wis.

Goshen Veneer Co., Goshen, Ind.

Grand Rapids Veneer Forks (and Panels), Grand

Rapids, Mich.

Hall, Fessenden (of Mahogany Lumber & Ve-

neers), 218 S 2d, Phila., Pa.

Hermansville Veneer Co., Hermansville, Mich.

Hoffman Bros., Fort Wayne, Ind.

Hood & Wright, Big Rapids, Mich.

Indiana Veneer & Lumber Co. (Quartered

Oak Sawed & Sliced), 1101 E 23d, In-

dianapolis, Ind.

Indiana Veneer & Panel Co., New Albany, Ind.

Indianapolis Sawed Veneer Co., Indianapolis,

Ind.
Jasper Veneer Mills, Jasper, Ind.

Johnson, L. S. & Co., 414 Albany, Boston, Mass.

Kentucky Veneer Works (Quartered, Sawed Oak

Veneer), 13th & Magnolia, Louisville, Ky.

King, C. L. & Co., Holland, Mich.

Louisville Veneer Mills, 943 Fulton, Louisville,

Ky.
McLeod, H. R., Baton Rouge, La.

Maley, Thompson & Moffett, 8th & McLean av,

Cincinnati, O.

Mancelona Hoop Co., Manchester, Mich.

Michigan Veneer Co., Alpena, Mich.

Morris Mfg. Co., Morris, Wis.

Muloda Veneer Mfg. Co., Edinburg, Ind.

Murdoch Veneer & Lumber Co., Washington, Ind.

National Veneer Co., Charleston, W. Va.

Palmer, Parker & Co., 103 Medford, Charleston,

Mass.

Pearl City Veneer Co., Jamestown, N. Y.

Portsmouth Veneer & Panel Co., Portsmouth,

O.

Puffer-Hubbard Mfg. Co., Minneapolis, Minn.

Rhineland Veneer Co., Rhineland, Wis.

Roddis Veneer Co., Marshfield, Wis.

Schwarz, C. & P., Green Bay, Wis.

Shiels, Chas. F. & Co., 923 Carr, Cincinnati, O.

Smith, E. T., Johnson City, Tenn.

Standard Veneer Co., Mobile, Ala., & Chicago,

Ill.

Sturm, Adolph Co. (Importer & Dealer), 51

W Wash, Chicago, Ill.

Strong Veneer Co., Gerry, N. Y.

Superior Veneer & Cooperage Co. (For Cheese

Boxes, Baskets, etc.), Munising, Mich.

Tennessee Lumber Co., Cincinnati, O.

Underwood Veneer Co., Wausau, Wis.

Uptegrove, Wm. B. & Bro., 465 E 10th, New

York, & Johnson City, Tenn.

Walker, J. C. & Sons, Alpena, Mich.

Welsh-Tuxford Veneer Co., Gowanda, N. Y.

Williams, Ichabod T. & Sons, 338 Wabash av,

Chicago, Ill.

Williams Veneer Co., Indianapolis, Ind.

Williams, W. H., Long Island City, N. Y.

Wisconsin Timber & Land Co., Matton, Wis.

Wisconsin Veneer Co., Rhineland, Wis.

Wister, C. F., Hillsboro, O.

Worden, A. & Son, Ypsilanti, Mich.

Veneer Seating

Ahnapee Veneer & Seating Co., Algoma, Wis.

Eggers, Fred Veneer Seating Co., Two Rivers,

Wis.

Frost Veneer Seating Co., Sheboygan, Wis., &

208 Canal, New York

McKibben, G. N. Mfg. Co. (also Panels, Etc.),

So. Norwalk, Conn.

Woodman, Joel H., Hoboken, N. J.

*Veneer & Wall Ties

PRESCOTT, J. B. & SON ("Morse"), Web-

ster, Mass. (See adv. index, end of book)

*Veneers (Quartered Sawed Oak)

WOOD MOSAIC FLOORING & LUM-

ber Co., Office & Factory, Rochester, N. Y.

(See adv. index & branch offices, end of book)

Ventilating Apparatus for Power Plants, Factories, Buildings, Greenhouses, Etc.

(See also Blowers & Mfrs., also Fans, Various

Kinds.)

Carmody, J. D. (Automatic), Evansville, Ind.

Dearborn Hardware Co. ("Triumph" Roller

Bearing), 483 Carroll av, Chicago, Ill.

Pavement Lights

CANNOT BREAK CANNOT LEAK

If you want the best write to the

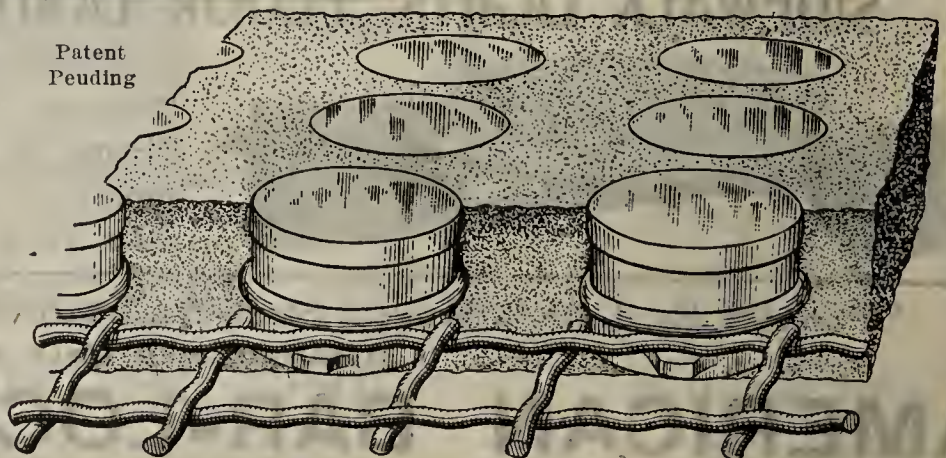
Baker Manufacturing Company

Allegheny and South Avenue,

ALLEGHENY, PA.

ORNAMENTAL IRON WORK.

Patent
Pending



Devlin, Thos. Mfg. Co. (Self-Locking for Factories, Buildings, etc.), 3d & Lehigh av. Phila., Pa.
 Enterprise Mfg. Co. (Automatic), Newburgh, N.Y.
 Hitchings & Co., 1170 B'way, New York
 Lord & Burnham Co., 1133 B'way, New York, & Tremont bldg., Boston, Mass.
THORN, J. S. CO. ("Brand"), 20th & Allegheny av., Phila., Pa. (See adv. index, end of book)
 Quaker City Machine Co. (Evans' Roller Bearing), Richmond, Ind.

Ventilating Apparatus (Mechanical)

American Blower Co., 1400 Russell, Detroit, Mich.
ANDREWS & JOHNSON CO., 256 Washington Boul., Chicago, Ill. (See adv. index, end of book)
BARNEY VENTILATING FAN Works (A. B. Franklin, Prop.), 24 Binford, Boston, Mass. (See adv. at Fans)
 Howard & Morse, 45 Fulton, New York
NATIONAL BLOWER WORKS, 17th & St. Paul av., Milwaukee, Wis. (See adv. index, end of book)
 Sturtevant, B. F. Co., Hyde Park, Mass.

Ventilating Apparatus (Ship)

BARNEY VENTILATING FAN Works (A. B. Franklin, Prop.), 24 Binford, Boston, Mass. (See adv. at Fans)
 McCreery Engineering Co., Toledo, O.

Ventilator Mfrs.

AMERICAN ROLLING MILL CO. ("American"), Middletown, O. (See adv. index, end of book)
 Berger Bros. Co. ("Perfection"), 231 Arch, Phila., Pa.
BERGER MFG. CO. ("Buckeye & World"), Main Office & Works, Canton, O. (See adv. index & branch offices, end of book)
 Bishop's Wm. Sons, 205 South, N. Y. book)
 Buffalo Forge Co. ("Buffalo"), Buffalo, N. Y.
 Burt Mfg. Co. ("Burt"), Akron, Ohio.

Calvert & Halloway (Nash), 68 N 2d, Phila., Pa.
 Cambridge Roofing Co. (Eureka), Cambridge, O.
CANTON ART METAL CO., Canton, O. (See adv. index, end of book)
CLASON ARCHITECTURAL METAL Works (Revolving), 428 Kinsley av, Providence, R. I. (See adv. index, end of book)
 Cushing, D. & Co., Lowell, Mass.
 Dickinson, Paul ("Dickinson" Cast Iron), Security bldg, Chicago, Ill.
 Dowman-Dozier Mfg. Co. (Dixie), Atlanta, Ga.
DROUVE, G. CO., 40 Tulip, Bridgeport, Conn. ("Drouve") (See adv. index, end of book)

EDWARDS MFG. CO. (Building & Skylight), Eggleston av 4th & 5th, Cincinnati, O. (See adv. index & branch offices, end of book)

ELLER MFG. CO., Canton, O. (See adv. index, end of book)

Ellis-Ford Mfg. Co. (Water Closet Ventilator), Detroit, Mich.
 Fenn, Geo. E. (Fenn's Rotary), 94 Blackstone, Boston, Mass.

Friedrichs & Wolfrum (Iron), 107 Gratiot av, Detroit, Mich.

FRIEDLEY-VOSHARDT CO. (Inc.) ("Crescent"), 194 Mather, Chicago, Ill. (See adv. index, end of book)

Gerrish, J. J. Supply Co. ("Helmet"), Portland, Me.

GLOBE VENTILATOR CO. ("Globe"), Troy, N. Y. (See adv. below)

Hall & Carpenter ("Buckeye & Moore"), 518 Race, Phila., Pa.
 Hess Snyder Co. (Chimney), Massillon, Ohio.

Hewitt, Thos. J. (Rotary Screw), 51 Dey, N. Y.
 Hoffman & Baur (Columbia), 279 Blake, Milwaukee, Wis.

Independent Mfg. Co., 154 Champlain, Cleveland, Ohio

INDIANAPOLIS STEEL ROOFING & CORRUGATING CO. (Peerless), Indianapolis, Ind. (See adv. index, end of book)

International Ventilator & Deflector Co. (House), Portsmouth, Va.
 Iona Ventilator Co. ("Iona"), 2545 Penna av, Phila., Pa.

Jersey City Galvanizing Co., 112 John, N. Y., & Jersey City, N. J.
 Kanneberg Roofing & Ceiling Co., Canton, O.

Lee, Thos. ("Common Sense"), 132 W 2d, Cincinnati, O.

Lorain Sheet Metal & Cornice Co. ("Imperial"), Lorain, Ohio
 McCoy, John (The Colby), 31 Dearborn, Chicago, Ill.
 McCreery Engineering Co. ("McCreery," Ship, etc.), Toledo, O.

Mack, W. A. & Co., Lowell, Mass.
MERCHANT & EVANS CO. (Inc.) ("Star"), 517 Arch, Phila., Pa. (See adv. index & branch offices, end of book)

Metallic Mfg. Co. (Metallic), 110 Erie, Camden, N. J.

Meurer Bros. Co. (Anchor), 571 Flushing av, Brooklyn, N. Y.

Middletown Mfg. Co. ("Miami"), Middletown, O.
 National Ventilating Co. ("National," "Mobile," "Victor," "Climax" & "Reliance"), 1 Madison av, New York

NATURAL AUTOFORCE VENTILATOR CO. ("Autoforce"), 53 Devonshire, Boston, Mass. See adv. index, end of book)

Riter Bros. & Co. (Earle's), 1022 Race, Phila., Pa.

Royal Ventilating & Mfg. Co. ("Pan-Coast"), 415 Locust, Phila., Pa.

Sands, Alfred B. & Sons Co., 242 Water, New York

Schuesseler, Jno., 717 Craig, Covington, Ky.
 Turner Brass Works, 68 N. Franklin, Chicago, Ill.

Washburne, Edw. G. (Rotary Screw), 46 Cortlandt, N. Y.
 Webb, E. & Son, 43 S. Water, Phila., Pa.

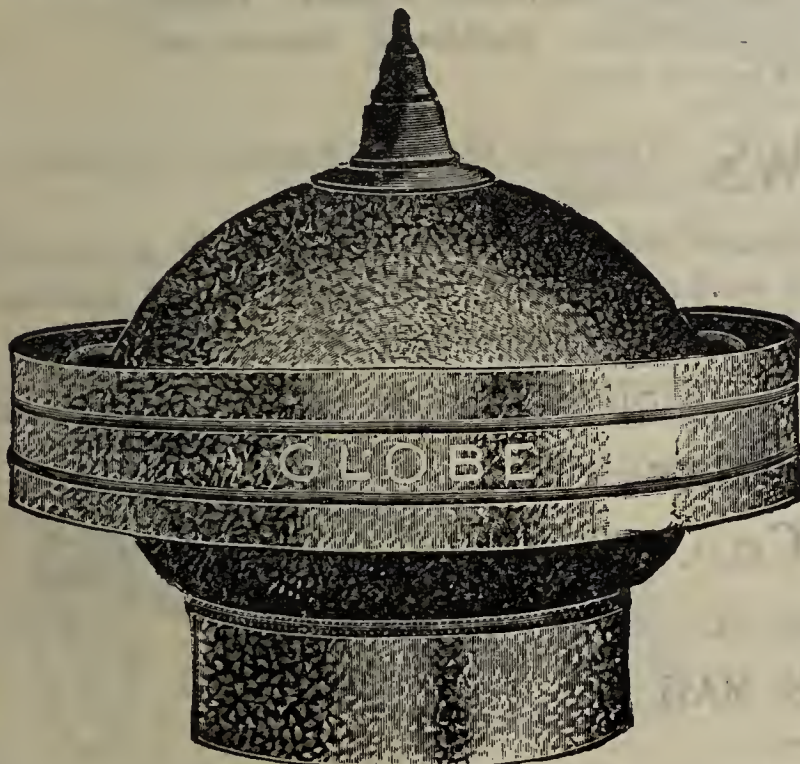
*Ventilator Wheels

GREEN FUEL ECONOMIZER CO., Matteawan, N. Y., & 1218 West St. bldg, New York. (See adv. index & branch offices, end of book)

Ventilator & Skylight Combined

Burt Mfg. Co., 750 Main, Akron, O.
MERCHANT & EVANS CO. (Inc.), 517 Arch, Phila., Pa. (See adv. index & branch offices, end of book)
MILWAUKEE CORRUGATING CO., Milwaukee, Wis. (See adv. index, end of book)
 National Ventilating Co., 1 Madison av, New York

THE GLOBE VENTILATOR



(Patented and Trade Mark)

Reg. in U. S. Pat. Office

—IN—

Brass, Copper and Galvanized Iron

And with

Glass Tops for Skylight Purposes

SMOKY CHIMNEYS CURED

SYMMETRICAL IN APPEARANCE

EFFECTIVE IN OPERATION

and ABSOLUTELY STORM PROOF

Send for Catalogue, Brown Print and Model

MANUFACTURED BY

GLOBE VENTILATOR COMPANY, TROY, N. Y.

Ventilators (Brick Wall)

National Ventilating Co., 1 Madison av, New York
 Pullman Automatic Ventilator Mfg. Co., York, Pa., & 180 B'way, New York
 Tuttle & Bailey Mfg. Co., 83 Beekman, New York

Ventilators (Car)

Burt Mfg. Co. ("Burt"), Akron, O.
 Creamer, W. G. & Co., 96 John, N. Y.
 Electric Motor & Generator Ventilating Co., Drexel bldg, Phila., Pa.
 Enterprise Mfg. Co. ("Chadborn's") Automatic Ventilator & Heat Control, Newburgh, N. Y.
GLOBE VENTILATOR CO. (Globe), Troy, N. Y. (See adv. on preceding page)
INDIANAPOLIS STEEL ROOFING & CORRUGATING CO., Indianapolis, Ind. (See adv. index, end of book)
 McCreery Engineering Co., Toledo, O.
MERCHANT & EVANS CO. (Inc.), ("The Star"), 517 Arch, Phila., Pa. (See adv. index & branch offices, end of book)
 National Ventilating Co., 1 Madison av, N. Y.
NATURAL AUTOFORCE VENTILATOR CO. ("Autoforce"), 53 Devonshire, Boston, Mass. (See adv. below)
 Pullman Automatic Ventilator Mfg. Co. (Also for Depots, Offices, etc.), York, Pa., & 180 B'way, New York
 Safety Car Heating & Lighting Co., 160 B'way,

Ventilators (Closet)

Miller Specialty Co., North Tonawanda, N. Y.
 Pullman Automatic Ventilating Mfg. Co., York, Pa., & 180 Broadway, N. Y.
NATURAL AUTOFORCE VENTILATOR CO. ("Autoforce"), 53 Devonshire, Boston, Mass. (See adv. below)
 Scully, W. J. & Co. ("Puritus"), Detroit, Mich.

Ventilators (Ship)

McCreery Engin'g Co. ("McCreery"), Toledo, O.
NATURAL AUTOFORCE VENTILATOR CO. ("Autoforce"), 53 Devonshire, Boston, Mass. (See adv. below)
 O'Crowley, J. J., 45 Hudson, Jersey City, N. J.

Ventilators (Window)

Acorn Brass Mfg. Co. ("Acorn"), 51 N Peoria, Chicago, Ill., & St. Louis, Mo.
 Field's, Chas. J. Sons, 633 Market, Phila., Pa.
 Ideal Ventilator Co. ("Ideal"), Providence, R. I.
 Manhattan Perfected Ventilator Co., 11 Baxter, N. Y.
 National Ventilating Co., 1 Madison av, New York
NATURAL AUTOFORCE VENTILATOR CO. ("Autoforce"), 53 Devonshire, Boston, Mass. (See adv. below)
 National Ventilator Co. (Adjustable), 149 S Jefferson, New York
 Protective Ventilator Co. (Revolving, etc.), 129 Fulton, New York
 Pullman Automatic Ventilator Mfg. Co. (For Either Top or Bottom), York, Pa., & 180 B'way, N. Y.
 Rochester Automatic Oil & Supply Co. ("Yawman" Sash Lift & Ventilator), Rochester, N. Y.
 Roebuck Weather Strip & Wire Screen Co., 207 B'way, New York
 Tuttle & Bailey Mfg. Co. ("Perfection"), 83 Beekman, N. Y.
 Zephyr Ventilator Mfg. Co., Inc., Phila., Pa.

Vestibules (Car)

Brill, J. G. Co., 62d & Woodland av, Phila., Pa.
 Gould Coupler Co., 345 5th av, New York; Rookery bldg, Chicago, Ill.
 McConway & Torley Co., 48th & A. V. Ry., Pittsburgh, Pa.
 Sforberg, J. P. & Co. (Portable & Stationary), 533 W 32d, New York

Vibratory Massage Machines

Garrett, J. E. ("Veede"), 1133 B'way, New York

Vibrator Mfrs.

American Specialty Co., Lansing, Mich.
 American Vibrator Co., St. Louis, Mo.
 Betz, Frank S., 88 Wabash av, Chicago, Ill.
 Physicians' Standard Supply Co., 303 Odd Fellows' Temple, Chicago, Ill.

Cleveland Faucet Co., Cleveland, O.
 Allison, W. D. Co., Indianapolis, Ind.
 Shelton Electric Co., 35 Randolph, Chicago, Ill.
 Veede Vibrator Co., 1133 B'way, New York
 Church Vibrator Co., Syracuse, N. Y.
 American Vibrator Co., St. Louis, Mo.
 Lambert Snyder Co., 41 W 24th, New York
 Marshall Vibrator Co., 33 W 42d, New York

Vise Drilling Attachments

Goodell-Pratt Co., Greenfield, Mass.

Vise Pipe Grip

Athol Machine Co. ("Standard" to be attached or inserted to jaws of a vise for making pipe vise). Athol, Mass.

Vise Stands (Portable)

Western Tool & Mfg. Co. ("Champion"), Springfield, O.

Vises (Amateur)

Athol Machine Co. ("Little Giant"), Athol, Mass.

Vises (Anvil)

ARMSTRONG MFG. CO., Bridgeport, Conn., & 139 Centre, New York. (See adv. index, end of book)

Athol Machine Co., Athol, Mass.
 Bonney Vise & Tool Wks., 3015 Chestnut, Phila., Pa.

Fulton Iron & Engine Wks., Detroit, Mich.
 Miller's Falls Co., 28 Warren, New York, N. Y., & Miller's Falls, Mass.
 Prentiss Vise Co., 44 Barclay, New York
 Phoenix Hardware Mfg. Co., Homer, N. Y.
 Sargent & Co., New Haven Conn., & 153 Leonard, New York, N. Y.
 Stowell Mfg. & Foundry Co., South Milwaukee, Wis.

Vises (Band Saw)

Atkins, E. C. & Co., Indianapolis, Ind.
 Wright Wire Co., Worcester, Mass.

A VENTILATOR THAT VENTILATES

For Factories, Foundries, Schools, Public and Private Buildings, Steam and Electric Cars

IT DRAWS

The only Natural Ventilator capable of creating a draft.

Produces a constant unbroken suction-flow of air upwards in all conditions of wind and weather without the use of mechanical power and prevents the possibility of down draft.

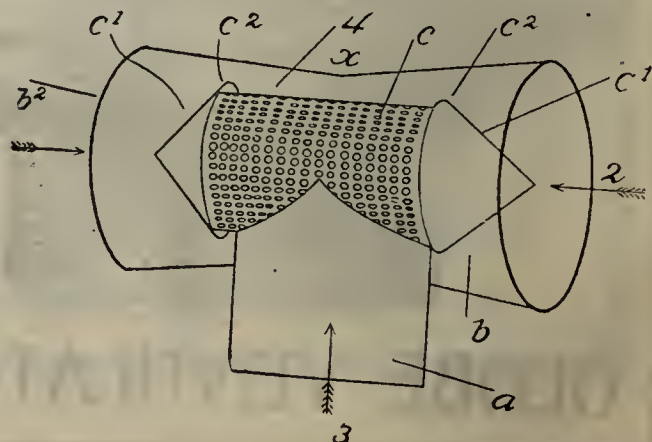
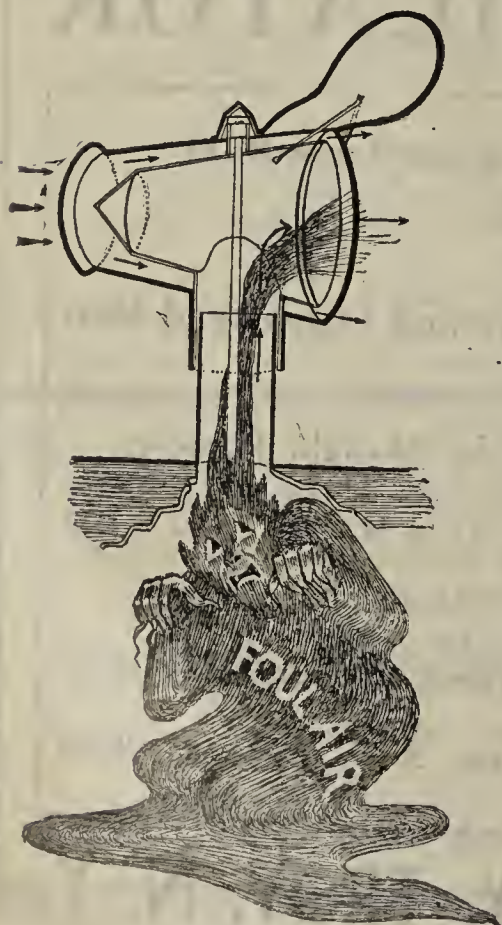
WE ARE IN BUSINESS FOR YOUR HEALTH

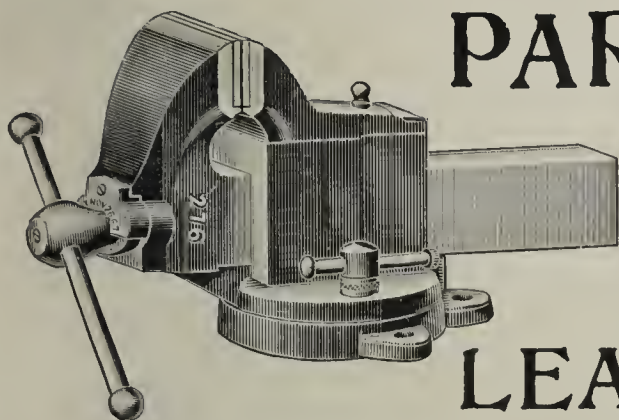
Natural Autoforce Ventilator Co. .:

53 Devonshire St.
 BOSTON, MASS.

Telephone Main 4820.

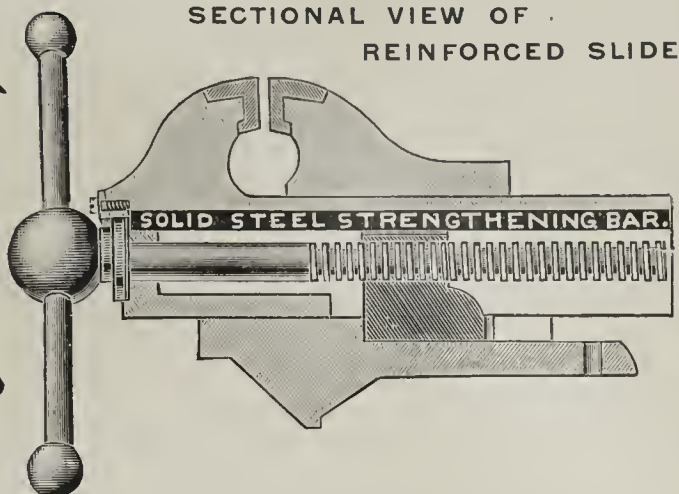
SEND FOR OUR
 CATALOGUE





PARKER VISES ARE LEADERS

IN STYLE AND DURABILITY

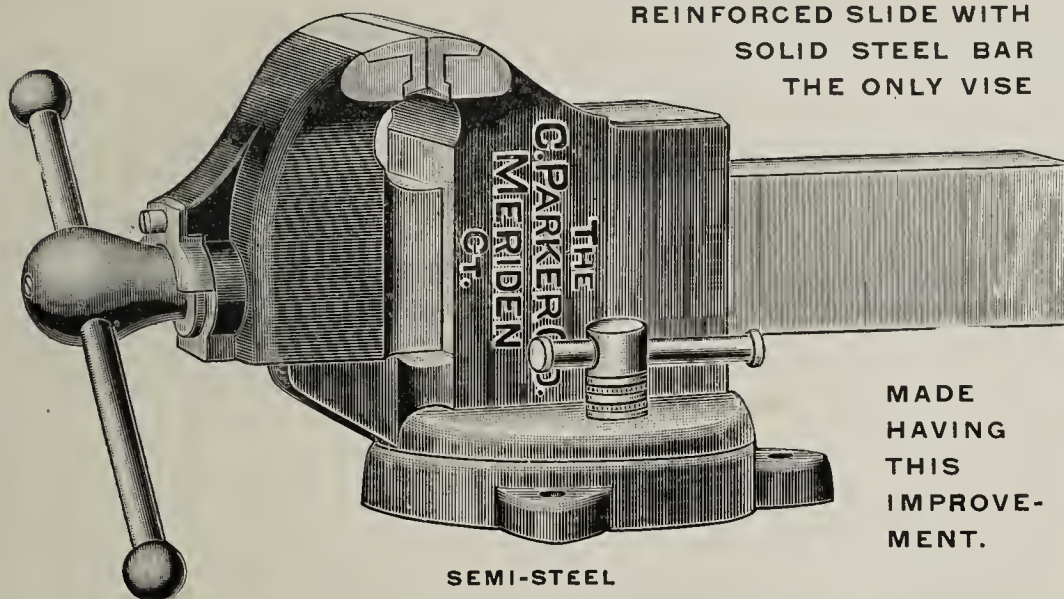


MADE BY

THE CHARLES PARKER CO.

THE OLDEST VISE MANUFACTURERS IN THE UNITED STATES

THE
PARKER
BEATS
THEM
ALL



REINFORCED SLIDE WITH
SOLID STEEL BAR
THE ONLY VISE

NONE
BETTER
NONE
AS
GOOD

MADE
HAVING
THIS
IMPROVE-
MENT.

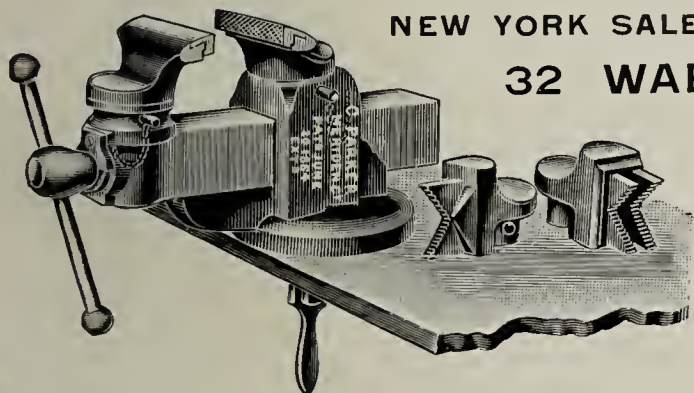
SEMI-STEEL

VICES TO SUIT ANY AND EVERY TRADE
IN EVERY SIZE AND EVERY STYLE

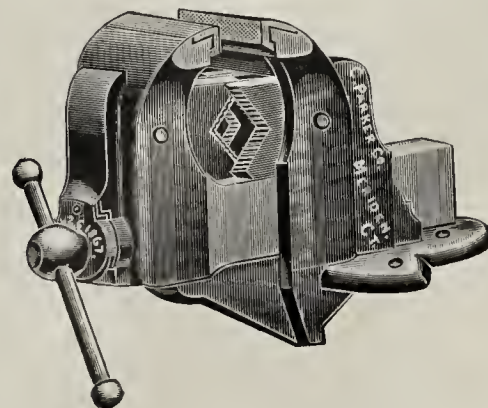
Factories, MERIDEN, CONN.

NEW YORK SALESROOMS:

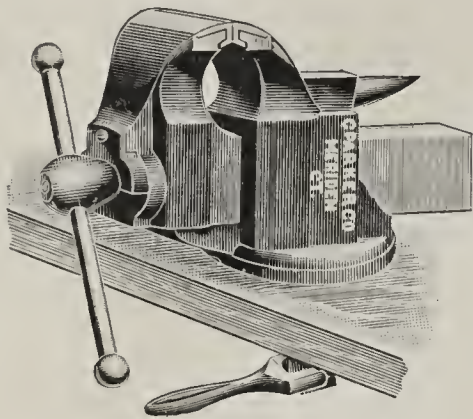
32 WARREN STREET



SEND FOR
CATALOG

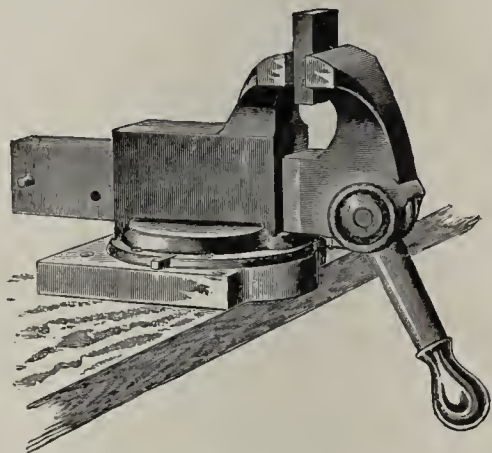


SEMI-STEEL—CAST-STEEL ANVIL.



PARKER VISES

HALL QUICK ACTING VISE.



They Fill the Bill
Every Time

THEY ARE GIVING SATISFACTION TO THOUSANDS.

Made by **THE CHARLES PARKER CO.**

SEMI-STEEL.

REINFORCED SLIDE WITH SOLID STEEL BAR
THE ONLY VISE MADE HAVING THIS
IMPROVEMENT

WHEN
YOU
OWN A
PARKER
YOU
HAVE
THE
BEST.

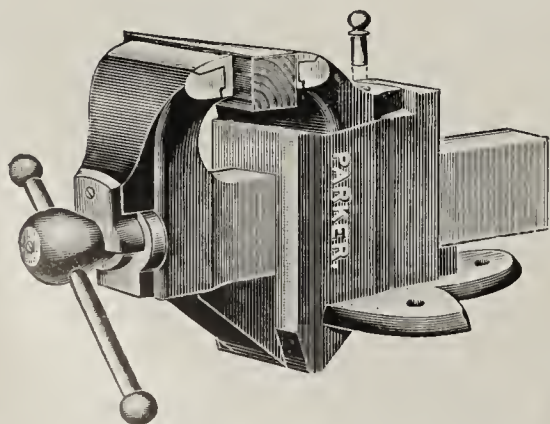


The Machinist, Tool
Maker, Blacksmith, Coach Maker,
Jeweler and Railroads, can find a tool to suit them
in the Parker line.

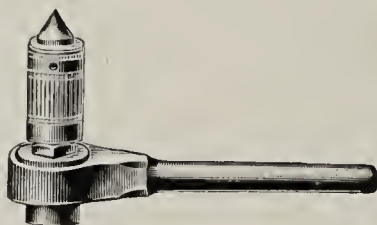
We are makers of the Parker Ratchets, both for General and Boiler Makers' use. They are all right. A full line of Coffee Mills to choose from, embracing every style and size from large store mills to small family and at right price.

Factories, **MERIDEN, CONN.**

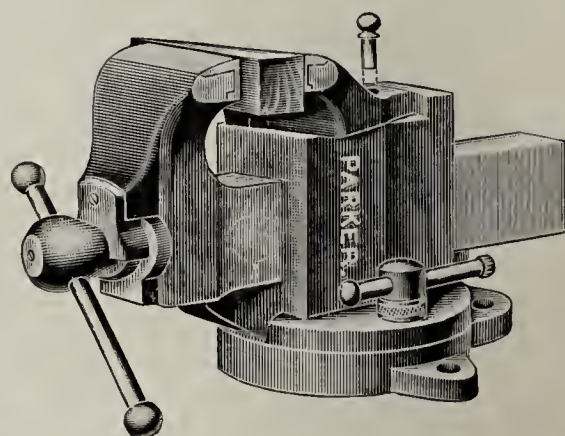
SEMI-STEEL.



NEW YORK SALESROOMS
32 WARREN ST.



SEMI-STEEL.



Vises (Bench)

Athol Machine Co. ("Simpson's" Standard), Athol, Mass.
 Barrett Machine Tool Co. (The Barrett), Meadville, Pa.
 Barbour-Stockwell Co. (Screw, the "Chandler" & "Washburn"), Cambridgeport, Mass.
 Bonney Vise & Tool Works (Inc.), "Bonney" & "Champion," 3015 Chestnut, Phila., Pa.
 Columbian Hardware Co. (Machinists, etc., "Columbian"), Coe & Hamilton, Cleveland, O., & 168 Church st., New York, N. Y.
 Crane Co. (Est. 1855), 519 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
 Eagle Anvil Works ("Fisher" Screw), Trenton, N. J.
 Emmert Mfg. Co. ("Presto," "Tiger"), Waynesboro, Pa.
 Fisher & Norris ("Fisher") (Clark Fisher, Prop.), Trenton, N. J.
 Hanna Engineering Works (Automatic, Quick Acting), 820 Elston av, Chicago, Ill.
 Howard Iron Works (Fixed & Swivel), Buffalo, N. Y., & 131 Liberty, New York
 Ideal Machine Works, 257 39th, Brooklyn, N. Y.
 Illinois Iron & Bolt Co. (Machinists, etc.), Carpentersville, Ill.
INGERSOLL-RAND CO., 11 B'way, New York. (See adv. index & branch offices, end of book)
 Irving Mfg. & Tool Co. (J. F. McCoy, Propt.), 159 Chambers, New York
 Jones & Laughlin Steel Co. (The Howard), Pittsburg, Pa.
 Lewis Tool Co., 708 Railroad av, Bridgeport, Conn.
 Massey Vice Co., 176 S Clinton, Chicago, Ill.
MERRILL BROS. (Steel Bar Parallel-ed Jaws Swivel Base), 465 Kent av, Brooklyn, N. Y. (See adv. below)
 Midland Iron Works, Racine, Wis.
PARKER, CHAS. CO., Meriden, Conn. (See adv. index, end of book)
 Phoenix Hardware Mfg. Co., Homer, N. Y.
 Prentiss Vice Co., 44 Barclay, N. Y.
 Reed Mfg. Co., Erie, Pa.
 Richmond Foundry & Mfg. Co. (Cast Iron), 517 Market, San Francisco, Cal.
 Toles, W. C. Co., Irving Park, Chicago, Ill.
 Tower & Lyon Co. ("Stephens" Patent & "XL"), 95 Chambers, N. Y.
 Walker, G. A. Machine Co. ("Best"), 51 Char-don st, Boston, Mass.
 Walworth Mfg. Co., 132 Federal, Boston, Mass.
 Williamson Mfg. Co. ("Williamson" Universal Double Swivel), Bradford, Pa.

Vises (Bicycle)

Hollands Mfg. Co., Erie, Pa.
 Lewis Tool Co., 708 Railroad av, Bridgeport, Conn.
 Massey Vice Co., 176 S Clinton, Chicago, Ill.
 Prentiss Vice Co., 44 Barclay, N. Y.

Vises (Blacksmiths')

Columbian Hardware Co., Cleveland, O.
 Columbus Forge & Iron Co., Columbus, O.
 Eagle Anvil Works, Trenton, N. J.
 Frasse, Peter A. & Co., 94 Fulton, New York
 Hollands Mfg. Co., Erie, Pa.
 Kinsley Iron & Machine Co. (Calking), Canton, O.

New London Vise Works, New London, Conn.
 Prentiss Vice Co., 144 Barclay, New York
 Russ, A. D. Mfg. Co., 87 Wade Park, Pa., & Cleveland, O.
 Tower & Lyon Co., 195 Chambers, New York
 Wiley & Russell Mfg. Co., Greenfield, Mass.

Vises (Cabinet Makers')

(See Vises, Coachmakers' or Woodworkers'.)
 Massey Vice Co., 176 S Clinton, Chicago, Ill.

Vises (Carpet)

Kraeuter & Co., Newark, N. J.

*Vises (Chain Pipe)

WILLIAMS, J. H. & CO., 150 Hamil-ton av, Brooklyn, N. Y. (See adv. index, end of book)

Vises (Coach Makers' or Wood-Workers')

Athol Machine Co. ("Simpson's"), Athol, Mass.
 Billings & Spencer Co., Hartford, Conn.
 Bliss, R. Mfg. Co. (Carpenters), Pawtucket, R. I.
 Bonney Vise & Tool Works, 3015 Chestnut, Phila., Pa.
 Columbian Hardware Co. ("Columbian"), Coe & Hamilton, Cleveland O.; 168 Church st., New York, N. Y.
 Emmert Mfg. Co. ("Presto"), Waynesboro, Pa.
HAMMACHER, SCHLEMMER & CO., 133 4th av, N. Y. (See adv. index, end of book)
 Illinois Iron & Bolt Co., Carpentersville, Ill.
 Lewis Tool Co., 708 Railroad av, Bridgeport, Conn.
 Massey Vice Co., 176 S Clinton, Chicago, Ill.
 National Novelty Corp'n, 826 B'way, New York
 New London Vise Works ("Hyde's"), New London, Conn.
PARKER, CHAS. CO., Meriden, Conn. (See adv. index, end of book)
 Phoenix Hardware Mfg. Co., Homer, N. Y.
 Prentiss Vice Co., 44 Barclay, N. Y.
 Timmis & Clissold, Bound Brook, N. J.
 Toles, W. C. Co., Irving Park, Chicago, Ill.
 Wyman & Gordon (Quick Action), Worcester, Mass.

Vises (Cutters')

New London Vise Works, New London, Conn.

Vises (Drill)

Adams Co. ("The Diamond"), Dubuque, Ia.
 Bonney Vise & Tool Co., 3015 Chestnut, Phila., Pa.
 Fulton Machine Co. (Drill-press), Fulton, O.
 Hill Standard Mfg. Co. ("Hill" for Drill Press), Anderson, Ind.
 Hopkinson Machine Works ("Hopkinson"), 23 Taylor, Springfield, Mass.
 Illinois Iron & Bolt Co., Carpentersville, Ill.
 Massey Vice Co., 176 S Clinton, Chicago, Ill.
 Millers Falls Co. (Also Anvil), Millers Falls, Mass., & 28 Warren, N. Y.
 Patterson Tool & Supply Co. ("Patterson"), Dayton, O.

Plunket, J. E. ("Plunket" Drill Press), 119 Washington boul, Chicago, Ill.
 Prentiss Vice Co. (Also Anvil), 44 Barclay, N. Y.

Vises (Farmers')

Athol Machine Co., Athol, Mass.
 Columbian Hardware Company ("Colum-bian"), Coe & Hamilton, Cleveland, O.; & 168 Church st., N. Y.
PARKER, CHAS. CO., Meriden, Conn. (See adv. index, end of book)
 Phoenix Hardware Mfg. Co., Homer, N. Y.

Vises (Foot)

Boyce & Fansworth Co., Fayette, O.
 New London Vise Works, ("Hyde's" Horse Shoers'), New London, Conn.

Vises (Hand)

Athol Machine Co. ("Boss," "Standard"), Athol, Mass.
 Billings & Spencer Co. ("Brighton"), Hartford, Conn.
 Bonney Vise & Tool Works, "Slivel Bench & Hand Vise Combined," 3015 Chestnut, Phila., Pa.
 Braunsdorf-Mueller Co., Elizabeth, N. J.
 Goodell-Pratt Co., Greenfield, Mass.
 Illinois Iron & Bolt Co., Carpentersville, Ill.
 Lowell Wrench Co., Worcester, Mass.
 Irving Mfg. & Tool Co. (J. F. McCoy Co., Propr.), 159 Chambers, New York
 Millers Falls Co., Millers Falls, Mass., & 28 Warren, New York
 National Novelty Corp'n ("Brighton"), 826 B'way, New York
 Phoenix Hardware Mfg. Co., Homer, N. Y.
 Secor, A. W., 65 Fulton, New York
 Smith, Otis A., Rockfall, Conn.
 Smith & Hemenway Co., 108 Duane, New York
 Universal Tool Co. (also with Combination Wrench), Springfield, Mass.

Vises (Horseshoers')

Burke, P. F., Dorr & Dorchester av, Boston, Mass.
 Butts & Ordway Co., 190 High, Boston, Mass.
 Columbian Hardware Co. ("Columbian"), Coe & Hamilton, Cleveland, O.
 Wells Bros. Co., Greenfield, Mass.
 Wiley & Russell Mfg. Co. ("Green River" Shoe-ing Vise & Bolt Header), Greenfield, Mass.

Vises (Jewelers')

Athol Machine Co., Athol, Mass.
 Barker, Chas. Co., Meriden, Conn.
 Emmert Mfg. Co., Waynesboro, Pa.
 Lowell Wrench Co. (Pin), Worcester, Mass.
PARKER, CHAS. CO., Meriden, Conn. (See adv. index, end of book)
 Prentiss Vice Co., 44 Barclay, New York
 Secor, A. W., 65 Fulton, New York
 Tower & Lyon Co., 95 Chambers, New York
 Williamson Mfg. Co., Bradford, Pa.

Vises (Linemen's)

Billings & Spencer Co. (Drop Forged), Hart-ford, Conn.
 Dicke Toole Co., Downers Grove, Ill.
 Utica Drop Forge & Tool Co., Frankfort, N. Y.

MERRILL BROS.

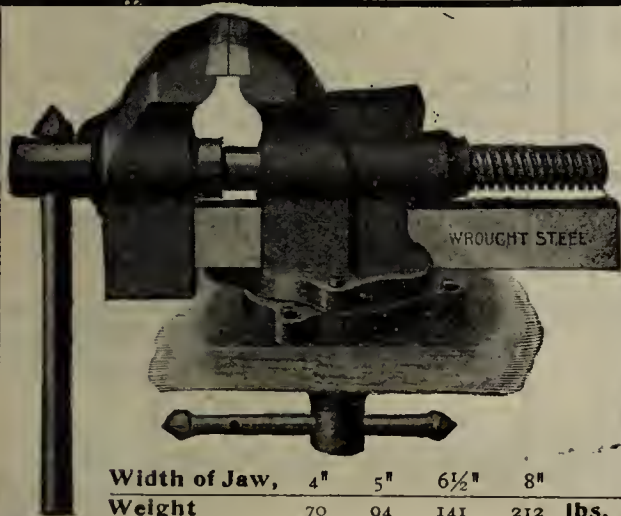
SOLID STEEL-BAR VISE

Combination Stationary and Swivel Bottom
BEST VISE made for HEAVY WORK

Manufactured by present firm for over 30 years. Noted for DURABILITY, SOLIDITY and STRENGTH of GRIP. Recommended for Automobile Manufactories, and wherever an extra quality vise is wanted. Trial Order Solicited.

MERRILL BROS.,

465 KENT AVENUE,
 BROOKLYN, N. Y.



| | | | | |
|---------------|----|----|--------|----------|
| Width of Jaw, | 4" | 5" | 6 1/2" | 8" |
| Weight | 70 | 94 | 141 | 212 lbs. |

Vises (Machinists')

Adams Company ("Diamond," Parallel Jaw), Duquesne, Iowa
 Athol Machine Co. (Parallel Jaw), Athol, Mass.
 Barrett Machine Tool Co. ("Barrett," Parallel Jaw, also Swivelling Jaw), Meadville, Pa.
 Bonney Vise & Tool Works (Parallel Jaw), 3015 Chestnut, Phila., Pa.
 Boyce & Fansworth Co. (Parallel Jaw), Fayette, O.
 Columbian Hardware Co. (Parallel Jaw), Cleveland, O.
 Emmert Mfg. Co. ("Emmert" Universal Parallel Jaw), Waynesboro, Pa.
 Hanna Engineering Works (Parallel Jaw), 820 Elstou av, Chicago, Ill.
 Hill Standard Mfg. Co. ("Hill," Parallel Jaw), Anderson, Ind.
 Hollands Mfg. Co. (Parallel & Swivelling Jaw), Erie, Pa.
 Howard Iron Works (Parallel Jaw), Buffalo, N. Y.
 Lewis Tool Co. (Self Adjustable Jaw & Quick Acting), 708 Railroad av, Bridgeport, Conn.
 Massey Vise Co. (Parallel Jaw), 176 S Clinton, Chicago, Ill.
MERRILL BROS. (Parallel Jaw), 465 Kent av, Brooklyn, N. Y. (See adv. preceding page)
PARKER, CHAS. CO. (Parallel & Swivelling Jaw), Meriden, Conn. (See adv. index, end of book)
 Prentiss Vise Co. ("Bulldog," Parallel & Swivelling Jaw), 44 Barclay, New York
 Reed Mfg. Co. (Parallel & Swivelling Jaw), Erie, Pa.
 Replogle Governor Works (Parallel Jaw), Akron, O.
 Tower & Lyon Co. (Parallel Jaw), 95 Chambers, New York
 Williamson Mfg. Co. ("Williamson," Parallel & Double Swivelling Jaw), Bradford, Pa.

Vises (Milling Machine)

Atlas Machine Co. ("Atlas" Swivel), Providence, R. I.
 Aurora Tool Works, Aurora, Ill.
 Becker-Brainard Milling Machine Co., Hyde Park, Mass.
 Brown & Sharpe Mfg. Co., Providence, R. I.
 Carter & Hakes Machine Co., Winsted, Conn.
 Cincinnati Milling Machine Co., Cincinnati, O.
 Clough, R. M., Tolland, Conn.
 Fox Machine Co., Grand Rapids, Mich.
 Garvin Machine Co., 137 Varick, New York
 Hendey Machine Co., Torrington, Conn.
 Hill, Clarke & Co., 156 Oliver, Boston, Mass.
 Hill Standard Mfg. Co. ("Hill"), Anderson, Ind.
 Kearney & Trecker, Milwaukee, Wis.
 Kemp Smith Mfg. Co., Milwaukee, Wis.
 Le Blond, K. K. Machine Tool Co., Cincinnati, O.
 Massey Vise Co., 176 E Clinton, Chicago
 Osterlein Machine Co., Cincinnati, O.
OWEN MACHINE TOOL CO. (Swivel), Springfield, O. (See adv. index, end of book)
 Plunket, J. E. ("Plunket"), 119 Washington, Chicago, Ill.
 Pratt & Whitney Co., Hartford, Conn.
 Vanderbeck Tool Works, Hartford, Conn.
 Whitney Mfg. Co., Hartford, Conn.

Vises (Oval Slide)

Athol Machine Co., Athol, Mass.
PARKER, CHAS. CO., Meriden, Conn. (See adv. index, end of book)

Vises (Parallel)

(See Vises, Bench)

Adams Co. ("The Diamond"), Duquesne, Ia.
 Athol Machine Co. ("Simpson's" Adjustable), Athol, Mass.
 Bonney Vise & Tool Works, 3015 Chestnut, Philadelphia, Pa.
 Columbian Hardware Co. ("Columbian"), Coe & Hamilton, Cleveland, O., & 168 Church st., New York, N. Y.
 Emmert Mfg. Co. ("Tiger"), Waynesboro, Pa.
 Fisher & Norris ("Fisher" Double Screw) (Clark Fisher, Prop.), Fair & Factory, Trenton, N. J.
 Fulton Mach. & Vise Co. ("Fulton" Solid Jaw), Lowville, N. Y.
HAMMACHER, SCHLEMMER & CO., 133 4th av, N. Y. (See adv. index, end of book)
 Hollands Mfg. Co., Erie, Pa.
 Howard Iron Works, Buffalo, N. Y., & 131 Liberty, N. Y.
 Illinois Iron & Bolt Co. (Steel Faced), Carpentersville, Ill.
 Irving Mfg. & Tool Co. (J. F. McCoy Co., prop.), 159 Chambers, New York

Jones & Laughlin Steel Co. (Ltd.), Pittsburg, Pa.
 Lewis Tool Co. (Solid Jaw), 708 Railroad av, Bridgeport, Conn.
 Massey Vise Co., 176 S Clinton, Chicago, Ill.
MERRILL BROS. (Steel Bar), 465 Kent av, Brooklyn, N. Y. (See adv. preceding page)
 Millers Falls Co., Millers Falls, Mass., & 22 Warren, New York
PARKER, CHAS. CO., Meriden, Conn. (See adv. index & branch offices, end of book)
 Prentiss Vise Co. ("Rapid Transit Bull dog"), 44 Barclay, N. Y.
 Tower & Lyon Co. (Leg Quick Acting), 95 Chambers, N. Y.

Vises (Pattern Makers')

(See Vises, Coach Makers' or Wood Workers'; also, Vises, Bench.)

Vises (Picture Frame)

Marsh, H. C. ("Marsh"), Rockford, Ill.

Vises (Pin)

Billings & Speucer Co. ("Billings"), Hartford, Conn.
 Braunsdorf-Mueller Co., Elizabeth, N. J.
 Fray, John S., & Co., Bridgeport, Conn.
 Goodell-Pratt Co., Greenfield, Mass.
 Kendrick & Davis, Lebanon, N. H.
 Lowell Wrench Co. (Jewelers, etc.), Worcester, Mass.
 Starrett, L. S. Co., Athol, Mass.

Vises (Pipe)

Adams Co. (The "Diamond"), Duquesne, Ia.
AMERICAN WELL WORKS (Combination), Aurora, Ill. (See adv. index & branch offices, end of book)
ARMSTRONG MFG. CO., Bridgeport, Conn., & 139 Centre, New York (See adv. below)



Armstrong's
Hinged
Pipe Vise

Strong and Simple. Made of the best malleable iron with interchangeable crucible steel jaws. Four sizes up to six inch pipe. Ask your dealer or write us direct.

The Armstrong Mfg. Co.
315 KNOWLTON ST.,
BRIDGEPORT, CONN.

Barret Machine Tool Co. (The Barret, Combination), Meadville, Pa.
 Bignall & Keeler Mfg. Co. (Combination, Bench & Pipe), Edwardsville, Ill.
 Bonney Vise & Tool Works, "Indispensable, etc.," 3015 Chestnut, Phila., Pa.
 Butler Co., Butler, Ind.
 Butterfield & Co., Belmont, N. Y.
 Clark Bros. Co., Delmont, N. Y.
 Cox & Sons Co., 215 Race, Phila., Pa.
 Connecticut Tool Co. (Hinged), Bridgeport, Conn.
 Crane Co. (Est. 1855), 519 S Canal. (See adv. index & branch offices, end of book)
 Curtis & Curtis Co., Bridgeport, Conn.
 Eagle Anvil Works ("Fisher"), Trenton, N. J.

Eaton, Cole & Burnham Co. (Malleable Iron), Bridgeport, Conn.
 Emmert Mfg. Co. ("Presto"), Waynesboro, Pa.
 Enterprise Windmill Co. ("Enterprise"), Sandwich, Ill.
 Erie Mfg. & Supply Co. (Sectional Jaw), Erie, Pa.
 General Fire Extinguisher Co., Providence, R. I.
 Henderer, A. L. Sons, Wilmington, Del.
 Hickman-Melhorn Co., 200 Liberty av, Pittsburg, Pa.
 Hollands Mfg. Co. ("Hough"), Erie, Pa.
 Hilts Wrench & Mfg. Co. ("Vulcan" Chain), Richford, N. Y.
 Howard Iron Works, Buffalo, N. Y.
 Irving Mfg. & Tool Co. (J. F. McCoy Co., prop.), 159 Chambers, New York
 Jarecki Mfg. Co., Erie & Pittsburg, Pa.
 Kemp, C. M. Mfg. Co. ("Climax"), 401 E Oliver, Baltimore, Md.
 Lewis Tool Co., 708 Railroad av, Bridgeport, Conn.
 Mark Mfg. Co. ("Roller"), Evanston, Ill.
 Massey Vise Co. ("Clinches," Lightning Grip), 176 S. Clinton, Chicago, Ill.
 Nason Mfg. Co., 71 Beekman, New York
 National Vise & Tool Works, Camden, N. J.
OIL WELL SUPPLY CO., 215 Water, Pittsburg, Pa. (See adv. index, end of book)
 Oswego Tool Co. (Walworth, Armstrong & Smith, Patterns), Oswego, N. Y.
PARKER, CHAS. CO. (Combination), Meriden, Conn. (See adv. index, end of book)
 Phoenix Hardware Mfg. Co., Homer, N. Y.
 Prentiss Vise Co. ("New Blake," "Prentiss," Combination "Prentiss," Open Side & 20th Century "Shepard"), 44 Barclay, N. Y.
 Reed Mfg. Co., Erie, Pa.
 Saunders, D. Sons Co., Yonkers, N. Y.
SIMMONS, JOHN CO., 110 Centre New York (See adv. index, end of book)
 Smith, H. B. Machine Co., Smithville, N. J., & 121 Liberty, New York, N. Y.
 Spencer Regulator Co., Salem, Mass.
 Vandeman, Wm. Plumbing & Heating Co. (Combination & Self-Locking), Willimantic, Conn.
 Walworth Mfg. Co. ("Klingfast"), 132 Federal Boston, Mass.
 Warnock Mfg. Co. ("Warnock" Smooth & Nickel Pipe), Worcester, Mass.
 Wells, F. E. & Son Co. ("Wells"), Greenfield, Mass.
WILLIAMS, J. H. & CO. (Chain), 150 Hamilton av, Brooklyn, N. Y. (See adv. index, end of book)
 Williamson Mfg. Co. ("Williamson" Universal Double Swivel), Bradford, Pa.
 Yale & Towne Mfg. Co., 9 Murray, N. Y., & Stamford, Conn.

Vises (Pipe, Combination)

Barrett Machine Tool Co. ("Barrett") Meadville, Pa.
 Bignall & Keeler Mfg. Co., Edwardsville, Ill.
 Bonney Vise & Tool Wks., 3015 Chestnut, Phila., Pa.
 Eaton, Cole & Burnham Co., Bridgeport, Conn.
 Fulton Machine & Vise Co., Louisville, N. Y.
 Hollands Mfg. Co. ("Hough"), Erie, Pa.
 Howard Iron Wks., Buffalo, N. Y.
PARKER, CHAS. CO., Meriden, Conn. (See adv. index, end of book)
 Prentiss Vise Co. ("Prentiss"), 44 Barclay, New York
 Reed Mfg. Co., Erie, Pa.
 Secor, A. W., 65 Fulton, New York
 Smith & Hemenway Co., 108 Duane, New York
 Stowell Mfg. & Foundry Co., South Milwaukee, Wis.
 Williamson Mfg. Co., Bradford, Pa.

Vises (Planer)

Denison Mfg. Co. ("Denison"), Warren, O.
 Fulton Machine Co., Canal Fulton, O.
 Hendey Machine Co., Torrington, Conn.
 Hill Standard Mfg. Co. ("Hill"), Anderson, Ind.
 Massey Vise Co., 176 S. Clinton, Chicago, Ill.
 Pratt & Whitney Co., Hartford, Conn.
 Vanderbeck Tool Works, Hartford, Conn.

Vises (Portable)

Pittsburg Automatic Vise & Tool Co., McChestney bldg, Pittsburg, Pa.
 V. & G. Vise Co. ("V. & G." for Plumbers, etc.), 8 Eldert, Brooklyn, N. Y.

Vises (Saw)

Atkins, E. C. & Co., Indianapolis, Ind.
 Atlantic Works (Inc.), 23d & Arch, Phila., Pa.
 Baldwin, Tuthill & Bolton (For Band Saws), Grand Rapids, Mich.

Bonney Vise & Tool Works, "Saw Filers," 3015 Chestnut, Phila., Pa.
Cincinnati Tool Co., Cincinnati, O.
 Disston, Henry & Sons (Inc.), Tacony, Phila., Pa., & 75 W Wash'n, Chicago, Ill.
 Footc, J. B. Foundry Co. ("Folding," Saw Filers, Vises), Fredericktown, O.
GRAMMES, L. F. & SONS, Allentown, Pa. (See adv. index, end of book)
HAMMACHER, SCHLEMMER & CO., 133 4th av, New York. (See adv. index, end of book)
 Jennings, C. E. & Co., 42 Murray, New York
 Kupferle, Jno. C., 2d & Mound, St. Louis, Mo.
 McClure, Chas., 624 W Pico, Los Angeles, Cal.
 New Britain Machine Co. (for Filing Band Saws), New Britain, Conn.
PARKER, CHAS. CO. (Adjustable Saw Filers), Meriden, Conn. (See adv. index, end of book)
 Phoenix Hardware Mfg. Co., Homer, N. Y.
 Seneca Falls Mfg. Co., Seneca Falls, N. Y.
 Turner Brass Works, 66 Michigan av, Chicago

Vises (Solid Box)

Columbian Hardware Company ("Columbian"), Coe & Hamilton, Cleveland, O., & 168 Church, New York
 Columbus Forge & Iron Co., Columbus, O.
 Fisher & Norris (Fisher), (Clark Fisher, Prop.), Fair & Factory, Trenton, N. J.
HAMMACHER, SCHLEMMER & CO., 133 4th av, New York. (See adv. index, end of book)
 Iron City Tool Works (Ltd.), Pittsburg, Pa.
 New London Vise Works, New London, Conn.
 Prentiss Vise Co., 44 Barclay, N. Y.

Vises (Tool Makers')

Atlas Machine Co. ("Atlas"), Providence, R. I.
 Emmert Mfg. Co. ("University"), Waynesboro, Pa.
PARKER, CHAS. CO., Meriden, Conn. (See adv. index, end of book)

Voltmeters & Frequency Indicator Combined

Wagner Electric Mfg. Co., St. Louis, Mo.

*Vulcabeston

JOHNS-PRATT CO., THE, Hartford, Conn. (For Electric Insulation & Steam Packing, etc.)

Vulcanizers

Biggs Boiler Works Co., Akron, O.

Vulcanizers (Rubber Mill)

AITON MACHINE CO., 126 Liberty, New York (See adv. index, end of book)
 Birmingham Iron Foundry, Derby, Conn.
 Farrel Fdry. & Machine Co., Ansonia, Conn.
 Thropp, Wm. R., Trenton, N. J.

Wagons (Asphalt, Dump)

Briggs, J. E. Labor Saving Specialty Co., Waterloo, Iowa
 Columbia Wagon Co., Columbia, Pa.
 Day, Josiah F., 231 B'way, New York, N. Y.
 Eagle Wagon Works, Auburn, N. Y.
 Milburn Wagon Co., Toledo, O.
 Shadbolt Mfg. Co., 68 Flushing av, Brooklyn, N. Y.
 Studebaker Bros. Mfg. Co., South Bend, Ind.
 Watson Wagon Co., Canastota, N. Y.

Wagons (Baggage & Express)

(See Barrows, Baggage & Express.)

Wagons (Builders')

Milburn Wagon Co., Toledo, O.
 Studebaker Bros. Mfg. Co., South Bend, Ind.

Wagons (Coal Charging)

Kilbourne & Jacobs Mfg. Co. (Steel), Columbus, O.
LYON METALLIC MFG. CO. (Steel), Aurora, Ill. (See adv. index, end of book)

*Wagons (Coal & Coke)

ARCHER IRON WORKS CO. (Steel Capacity 900 lbs.), 32 La Salle, Chicago, Ill. (See adv. index, end of book)

Wagons (Coaster)

Hunt, Helm, Ferris & Co. ("Star"), Harvard, Ill.

Wagons (Dumping)

Acme Wagon Co., Emigsville, Pa.
 Austin Mfg. Co. (Automatic), Harvey, Ill., & 315 Dearborn, Chicago, Ill.
BARTLETT, C. O. & SNOW CO., French St, Cleveland, O. (See adv. index, end of book)

Beckert, Wm., 1001 Ohio, Allegheny, Pa.
 Bennett, H. L. & Co., Westerville, O.
 Blake, J. M. & Son, 54 Indiana, Buffalo, N. Y.
 Briggs, J. E. Labor Saving Specialty Co. ("Lightning" Rear End), Waterloo, Iowa
 Climax Road Machine Co., Marathon, N. Y.
 Columbia Wagon Co. ("Day's" Columbian Dump Bottom), Columbia, Pa.
CONTRACTORS' SUPPLY & EQUIPMENT CO. ("Symons"), Old Colony Bldg., Chicago, Ill. See adv. index & branch offices, end of book

Day, Josiah F. (For Contractors' Use, Asphalt, Garbage, etc.), 231 B'way, New York, N. Y.
 Duquesne Vehicle Co., 400 Duquesne Way, Pittsburgh, Pa.

Eagle Wagon Works, Auburn, N. Y.
 Haywood Wagon Co., Baldwinsville, N. Y.
 Hill, Thos. (Steel), 312 Henderson, Jersey City, N. J.

Jack, J. H. ("Dayton"), Dayton, O.
 Keystone Wagon Works ("Keystone"), Reading, Pa.

Longenecker, Chas. & Co., 150 Nassau, New York
 Mast, P. P. & Co., Springfield, O.
 Milburn Wagon Co., Toledo, O.
 Port Huron Engine & Thresher Co., Port Huron, Mich.

SCHOLL, JULIAN & CO. ("Reliance"), 126 Liberty, New York. (See adv. index & branch offices, end of book)
 Schuttler & Hotz, 22d & Rockwell, Chicago, Ill.

Shadbolt Mfg. Co., 68 Flushing av, Brooklyn, N. Y.

SHAW, WILLIS, 171 LaSalle, Chicago. (See adv. index, end of book)

Smith & Sons Mfg. Co., Kansas City, Mo.
 Stroud, T. F. & Co. ("Little Red" Bottom Dump), Omaha, Nebr.

Studebaker Bros. Mfg. Co., South Bend, Ind.
 Tiffin Wagon Co., Tiffin, O.

TROY WAGON WORKS CO. ("Troy") Bottom Dump, Troy, O. (See adv. index, end of book)

Walker, H. B., Tarrytown, N. Y.
 Watson Wagon Co., Canastota, N. Y.
 Western Wheeled Scraper Co. ("Aurora"), Aurora, Ill.

Wagons (Farm)

ALABAMA.

FLORENCE—Florence Wagon Works ("Florence")

ARKANSAS.

FORT SMITH—Fort Smith Wagon Co. ("Fort Ingle Wagon Mfg. Co. ("Ingle") Smith")

JONESBORO—Jonesboro Wagon Co. ("Jonesboro")

COLORADO.

DENVER—Plattner Implement Co.

GEORGIA.

ATLANTA—White Hickory Wagon Co. ("White Hickory")

AUGUSTA—Lowry Wagon Works ("Lowry")

COLUMBUS—Davis Wagon Co. ("Davis")

ILLINOIS.

ABINGDON—Abingdon Wagon Co. ("Abingdon," "Clinton," "Sterling")

ALBION—Painter & Frankland ("Painter & Frankland")

BATAVIA—Newton Wagon Co. ("Newton")

CHICAGO—International Harvester Co. of America ("Bettendorf," "Columbus," "Weber")

Schuttler, Peter Co. ("Schuttler")

DIXON—Grand Detour Plow Co.
 Grand Detour Wagon Co. ("Grand Detour")
 LINCOLN—Sheer, Eugene ("Sheer")
 OTTAWA—King & Hamilton Co. ("Ottawa")
 PEORIA—Avery Mfg. Co. ("Peoria")
 Peoria Wagon Co. ("Peoria")
 QUINCY—Electric Wheel Co. ("Electric")
 Knapheide, Henry Wagon Co. ("Knapheide")

INDIANA.

ANDERSON—Rhoads, Samuel H. ("Rhoads")
 CORYDON—Keller Mfg. Co. ("Corydon")
 EVANSVILLE—Karges Wagon Co. ("Karges")
 FORT WAYNE—Olds Wagon Works ("Olds")
 HUNTINGBURG—Huntingburg Wagon Works ("Huntingburg")
 LAFAYETTE—Indiana Wagon Co. ("Indiana," "O'Brien")
 SOUTH BEND—Birdsell Mfg. Co. ("Birdsell")
 Hunt Bros. Mfg. Co.
 Studebaker Bros. Mfg. Co. ("Studebaker")

IOWA.

BURLINGTON—Burg Wagon Co. ("Burg")
 Orchard City Wagon Co. ("Orchard City")
 CHARITON—Schreiber Carriage Mfg. Co. ("Schreiber")
 CLINTON—Fish Bros. Mfg. Co. ("Fish Bros.," "La Belle")
 DUBUQUE—Cooper, A. A. Wagon & Buggy Co. ("Columbus," "Cooper")
 FAIRFIELD—Turney, Joel & Co. ("Charter")
 LANSING—Rud, L. O. & Co. ("Rud") Oak")
 PELLA—Buerkens Mfg. Co. ("Buerkens")
 SHENANDOAH—O'Brien Wagon Works ("O'Brien")

KENTUCKY.

HENDERSON—Coquillard Wagon Works
 HICKMAN—Hickman Wagon Co.
 HOPKINSVILLE—Forbes Mfg. Co. ("Mogul")
 LOUISVILLE—Kentucky Wagon Mfg. Co. ("Kentucky," "Old Hickory," "Tennessee")
 MADISONVILLE—Madisonville Wagon Co. ("Madisonville")
 OWENSBORO—Hickman-Ebbert Co.
 Owensboro Wagon Co. ("Owensboro")

MICHIGAN.

FLINT—Flint Wagon Works ("Flint")
 GRAND RAPIDS—Belknap Wagon Co. ("Belknap")
 Harrisou Wagon Co. ("Harrison")
 HOLLY—Patterson & Brown Bros. Mfg. Co. ("Holly")
 IONIA—Ionia Wagon Co. ("Bible," "Capital")
 LANSING—Lansing Wagon Works
 MOUNT CLEMENS—Donaldson Bros. ("Donaldson")
 SAGINAW—Farmers' Handy Wagon Co.

MINNESOTA.

LAKE CITY—Neal, Johns & Co. ("Lake City")
 MINNEAPOLIS—Lenhart Wagon Co. ("Lenhart")
 SAUK CENTER—Keller Mfg. Co. ("Keller")
 WINONA—Winona Wagon Co. ("Rushford," "Winona")

MISSISSIPPI.

DURANT—Love Wagon Co.
 LAUREL—Lindsey Wagon Co. ("Lindsey")

MISSOURI.

CARROLLTON—Brooksmith Wagon Co. ("Brooksmith")
 EDINA—Miller Wagon Co. ("Miller")
 FARMINGTON—Lang & Bro. Mfg. & Merc. Co. ("Lang")
 HANNIBAL—Beggs-Goodson Wagon Co. ("Beggs-Goodson")
 KANSAS CITY—Beggs Wagon Co. ("Beggs")
 NEOSHO—Mutual Mfg. Co.
 ST. LOUIS—Gestring Wagon Co.
 Linstroth Wagon Co. ("Linstroth")
 Luedinghaus-Espenschied Wagon Co. ("Luedinghaus")
 Weber & Dammie Wagon Co.
 SPRINGFIELD—Springfield Wagon Co. ("Springfield")

NEW YORK.

ITHACA—Williams Bros. ("Ithaca")
 MORAVIA—Cady, Geo. S. & Co. ("Walker")
 OLEAN—New Conklin Wagon Co. ("New Conklin")
 VERNON—Thomas Wagon Co. ("Thomas")

NORTH CAROLINA.

HICKORY—Piedmont Wagon Co. ("Hickory")
WINSTON SALEM—Nissen, C. F. ("J. J. Nissen")
Nissen, Geo. E. & Co. ("Nissen")

OHIO.

CINCINNATI—Bode Wagon Co. ("Bode")
DEFIANCE—Turnbull Wagon Co. ("Turnbull")
MARIETTA—Ohio Valley Wagon Co. ("Marl-tiffin")
Tiffin Wagon Co. ("Tiffin")
TOLEDO—Milburn Wagon Co. ("Milburn")
TROY—TROY WAGON WORKS CO. ("Troy"). (See adv. index, end of book)
ZANESVILLE—Brown Mfg. Co. ("Brown")

PENNSYLVANIA.

BROOKVILLE—Brookville Mfg. Co. ("Brookville")
COLUMBIA—Columbia Wagon Co. ("Columblan")
ELIZABETHVILLE—Swab Wagon Co. ("Swab")
EMIGSVILLE—Acme Wagon Co. ("Acme")
OIL CITY—Kramer Wagon Co. ("Kramer")

TENNESSEE.

CHATTANOOGA—Chattanooga Wagon Co. ("Chattanooga")
MEMPHIS—Bodley Wagon Co.
James & Graham Wagon Co. ("James & Graham")

TEXAS.

BRENNHAM—Schuereberg, F. W. (Est. of) ("Schuereberg")

VIRGINIA.

LYNCHBURG—Thornhill Wagon Co. ("Thornhill")
MARION—Look & Lincoln ("Look & Lincoln")
SOUTH BOSTON—Virginia Wagon Co.

WEST VIRGINIA.

MARTINSBURG—Auburn Wagon Co. ("Auburn")

WISCONSIN.

FOND DU LAC—Sweet, B. F. & H. L. Co.
FORT ATKINSON—Northwestern Mfg. Co. ("Northwestern")
GRAND RAPIDS—MacKinnon, F. Mfg. Co. ("MacKinnon")
JEFFERSON—Vaughn Mfg. Co. ("Jefferson")
KENOSHA—Bain Wagon Co. (Ltd.) ("Bain")
LA CROSSE—Smith Mfg. Co. ("La Crosse")
MADISON—Fuller & Johnson Mfg. Co. ("Badger")
Fuller & Johnson, "Madison"
OSHKOSH—Streich, A. & Bro. Co. ("Streich")
RACINE—Fish Bros. Wagon Co. ("Fish Bros.")
Mitchell & Lewis Co. (Ltd.) ("Mitchell")
Racine-Sattley Co. ("Racine")
RANDOLPH—Randolph Wagon Works ("Randolph")
STOUGHTON—Mandt Wagon Co. ("Mandt")
Stoughton Wagon Co. ("Stoughton")

***Wagons (Farm, Electric)**

ELECTRIC WHEEL CO., Quincy, Ill. (See adv. index, end of book)

Wagons (Freight, Teaming, Etc.)

Akron-Selle Co., Akron, O.
Auburn Wagon Co., Martinsburg, W. Va.
Bain Wagon Co. (For Freight, etc.), Kenosha, Wis.
Bodley Wagon Co. (Up to 30 Tons), Memphis, Tenn.
Eagle Wagon Works, Auburn, N. Y.
Fish Bros. Wagon Co., Racine, Wis.
Harrison Wagon Co., Grand Rapids, Mich.
Knaphelde Wagon Co., Quincy, Ill.
Milburn Wagon Co., Toledo, O.
Studebaker Bros. Mfg. Co., South Bend, Ind.
TROY WAGON WORKS CO., Troy, O. (See adv. index, end of book)

Wagons (Grading)

Briggs, J. E. Labor Saving Specialty Co. ("Lightning," rear end), Waterloo, Iowa
Works, Harvey, Ill.

Wagons (Garbage)

Briggs, J. E. Labor Saving Specialty Co., Waterloo, Iowa.
Columbia Wagon Co., Columbia, Pa.
Day, Josiah F., 231 B'way, New York, N. Y.
Haywood Wagon Co., Baldwinville, N. Y.
Shadbolt Mfg. Co. (Dumping), 68 Flushing av., Brooklyn, N. Y.
Studebaker Bros. Mfg. Co., South Bend, Ind.
United States Sanitary Co. (Garbage & Night Soil Wagons & Carts), Washington, D. C.
Watson Wagon Co., Canastota, N. Y.

***Wagons (Handy)**

TROY WAGON WORKS CO., Troy, O. (See adv. index, end of book)

Wagons (Hose)

Seagrave Co., Columbus, O.
Stewart, A. F. & S. C., Rochester, N. Y.

Wagons (Ice)

Akron-Selle Co., Akron, O.
Keystone Wagon Works, Reading, Pa.
Milburn Wagon Co., Toledo, O.
Studebaker Bros. Mfg. Co., South Bend, Ind.

Wagons (Larry Coke)

Niles Mine & Mill Supply Co., Cleveland, O., & Niles, O.
Phillips Mine & Mill Supply Co., Pittsburg, Pa.

Wagons (Laundry)

Armleder, O. Co., Cincinnati, O.
Koenig & Luhrs Wagon Co., Quincy, Ill.
Milburn Wagon Co., Toledo, O.

Wagons (Logging)

Bodley Wagon Co., Memphis, Tenn.
Diamond Iron Works ("Diamond" Roll-Off), Minneapolis, Minn.
ELECTRIC WHEEL CO., Quincy, Ill. (See adv. index, end of book)
Fish Bros. Wagon Co., Racine, Wis.
Florence Wagon Works, Florence, Ala.
Ingle Wagon Mfg. Co., Fort Smith, Ark.
Luedinghaus-Dispenschied Wagon Co., 1715 N B'way, St. Louis, Mo.
Milburn Wagon Co., Toledo, O.
Phoenix Mfg. Co., Eau Claire, Wis.
Racine-Satterly Co., Racine, Wis.
Roesch, Fred, Little Rock, Ark.
Sanford, A. Logging Tool Co., Oshkosh, Wis.
Schwartz, Jos. Co. (Ltd.), 821 Perdido, New Orleans, La.
Studebaker Bros. Mfg. Co., South Bend, Ind.
TROY WAGON WORKS CO., Troy, O. (See adv. index, end of book)
White Hickory Wagon Mfg. Co., Atlanta, Ga.
Weber Wagon Co., W 81st & C. R. 1. & P. R'y, Chicago
Zelnicker, Walter A. Supply Co., 408 N 4th, St. Louis, Mo.

Wagons (Lumber)

Florence Wagon Works, Florence, Ala.
Fort Smith Wagon Co., Fort Smith, Ark.
Ingle Wagon Co., Fort Smith, Ark.
Milburn Wagon Co., Toledo, O.
Williams Bros., Ithaca, N. Y.

Wagons (Lunch)

Buckley, T. H. Car Mfg. Co. ("White House" "Cafe.")

***Wagons (One-Horse)**

TROY WAGON WORKS CO., Troy, O. (See adv. index, end of book)

Wagons (Ore, Coal & Mining)

AKRON CULTIVATOR CO., Akron, O. (Steel) (See adv. index, end of book)
Bettendorf Axle Co. (Steel Gear, Coal, Farm, etc.), Davenport, Ia.
Briggs, J. E. Labor Saving Specialty Co. ("Lightning," Coal), Waterloo, Iowa
Connellsville Machine & Car Co. (Pit), Connellsville, Pa.
Jackson Mfg. Co. (Steel), Harrisburg, Pa.

KOPPEL, ARTHUR CO., 68 Broad, New York. (See adv. index. & branch offices, end of book)
Turl's, John Sons (Inc.), 26 Cortlandt, New York. Works, Newburgh, N. Y.
Milburn Wagon Co., Toledo, O.
WIENER, ERNST CO., 68 Broad, New York (See adv. index, end of book)
Studebaker Bros. Mfg. Co., South Bend, Ind.

Wagons (Police & Fire Patrol)

Fulton & Walker Co., 20th & Filbert, Phila., Pa.
Seagrave Co., Columbus, O.
Stewart, A. F. & S. C., Rochester, N. Y.
Studebaker Bros. Mfg. Co., South Bend, Ind.
Wayne Sulkyette & Road Cart Co., Decatur, Ill.

Wagons (Self-Dumping)

Indiana Road Machine Co., Ft. Wayne, Ind.

Wagons (Stave)

Strait, H. N., Kansas City, Mo.

Wagons (Steel)

Bruner Steel Wagon Co. ("Bruner" Pressed Steel), Wapakoneta, O.
ELECTRIC WHEEL CO., Quincy, Ill. (See adv. index, end of book)

Wagons (Steel Gear)

Bettendorf Axle Co. (Coal, Farm, etc.), Davenport, Iowa

Wagons (Stone)

Steam Stone Cutter Co. (For Quarries or Heavy Stone Hauling), Rutland, Vt.

Wagons (Sugar)

ELECTRIC WHEEL CO. (Also Sugar Cane Carts), Quincy, Ill. (See adv. index, end of book)
KOPPEL, ARTHUR CO., 68 Broad, New York, N. Y. (See adv. index, & branch offices, end of book)
Sheffield Car Co., Three Rivers, Mich.
Turl's, John Sons (Inc.), 26 Cortlandt, New York. Works, Newburgh, N. Y.
WIENER, ERNST CO., 68 Broad, New York (See adv. index, end of book)

Wagons (Trolley)

ANDERSON FORGE & MACHINE CO., (Pole Raising), 271 Guoin, Detroit, Mich. (See adv. index, end of book)
Briggs Carriage Co., Amesbury, Mass.
Leonhardt Wagon Mfg. Co., 412 E Saratoga, Baltimore, Md.
McCardell, J. R. & Co., Trenton, N. J.
Milburn Wagon Co., Toledo, O.
Winona Wagon Co., Winona, Minn.

Wagons (Wire Nail)

Howe Scale Co., Rutland, Vt.

Wall Boards

Beaver Mfg. Co. ("Beaver" Finished), 228 Perry st., Buffalo, N. Y.
Sackett Wall Board Co. (Sackett's), 17 Battery pl., New York

Wall Boxes

(See Boxes, Wall.)

Wall Burlaps & Canvas

(See Wall Coverings.)

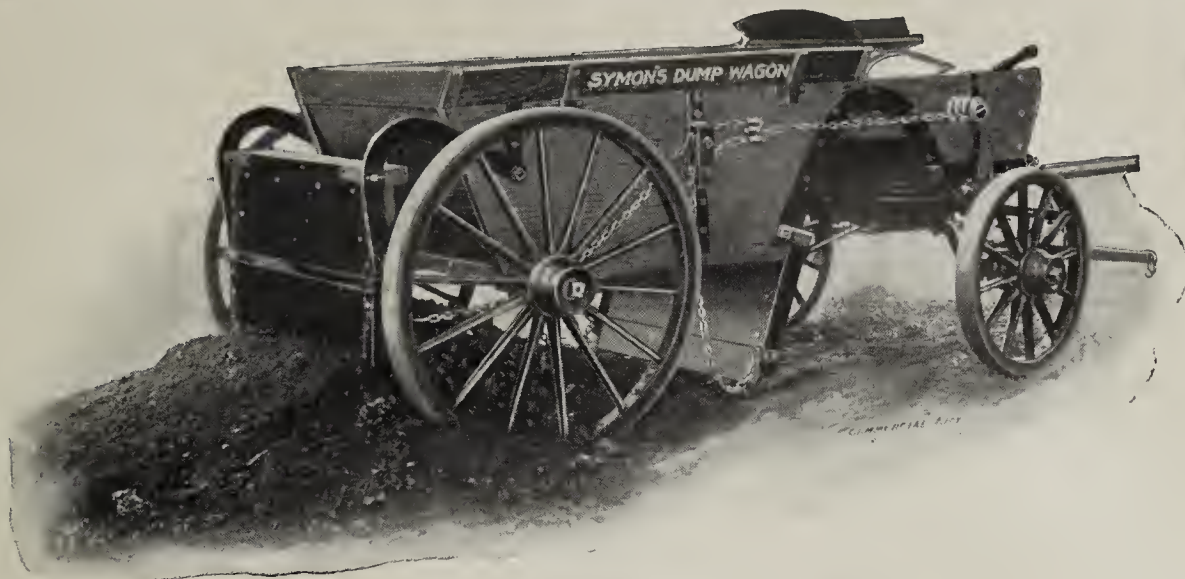
Wall Coping Mfrs.

(See Sewer Pipe Mfrs. Also Terra Cotta Architectural.)

Wall Coverings

Cot-A-Lap Co. (Burlaps & Canvas), New Haven, Conn.
Leatherole Co. ("Leatherole" & "Sanatite" Sanitas Waterproof, 24 E 22d, New York

SYMONS DUMP WAGON



WAGON DISCHARGING LOAD

Bottom Sections do not swing toward the wheels. Will dump when wheels are mired or on a load previously dumped without stalling. One foot shorter coupled than any other wagon. No chains inside the bed. Wagon-box sand tight. Easy foot-trip; no springs except those under the seat. Material the best; prices right. :: :: :: :: ::

SEND FOR CATALOGUE

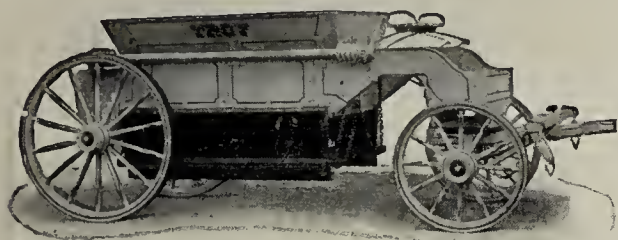
ADDRESS THE

CONTRACTORS SUPPLY & EQUIPMENT CO.

Old Colony Building, CHICAGO

NEW YORK OFFICE, 170 Broadway

TROY BOTTOM-DUMP WAGONS



make money for their owners by saving it. They save time; they save repair bills and are good for more than one year's use; they save the load—can't lose any of it until driver releases the dumping device, then entire contents drop immediately beneath the wagon.

The doors are made of reinforced sheet steel, one overlapping the other at center — always a tight bottom, never swelled or sprung by wet weather or wet loads.

Only two chains to lift the doors, and they are outside of box, one at either end, and operated by one lever only.

Lightest running because made on correct wagon-making and mechanical lines.

The Simplest, Strongest, Serviceable dump wagon. Made in several sizes. Would do your work with more satisfaction than any other wagon. Send for Catalog.

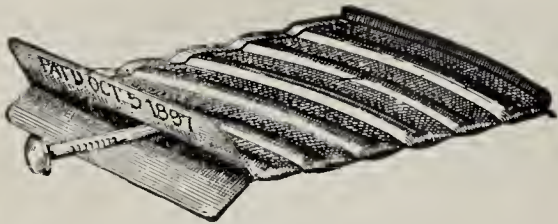
THE TROY WAGON WORKS CO., TROY, OHIO.

TO OUR ADVERTISERS AND SUBSCRIBERS.

At any time during the year, that you do not find classified in our book the names and addresses of the Manufacturers of any ARTICLE you are in the market to PURCHASE, please write us, giving as complete particulars as possible, and we will always endeavor to render you PROMPT SERVICE in furnishing you the names and addresses of such Manufacturers and without any cost or obligation. This does not include Mailing Lists.

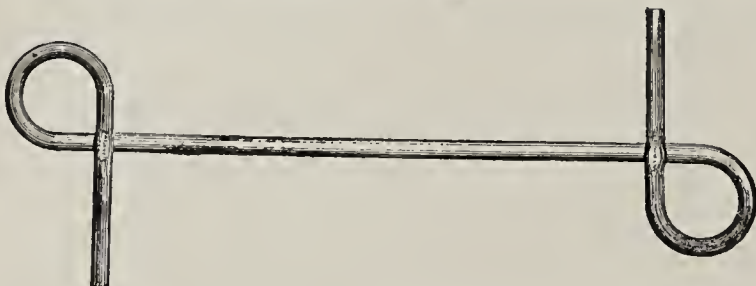
S. E. HENDRICKS CO.

THREE SPECIALTIES OF ACKNOWLEDGED MERIT



RUTTY STEEL WALL PLUG

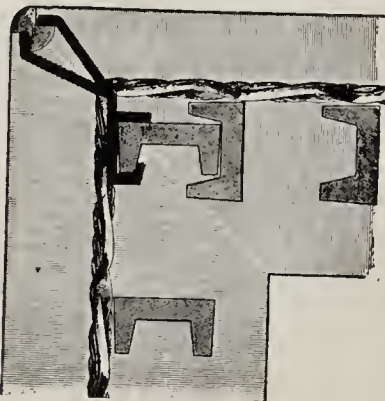
A perfect Nailing Base for Interior Finish in Brick, Steel and Concrete Construction. Entirely obviates the use of objectionable wood blocks.



MORSE STEEL WALL TIE

The Original and Standard Steel Bond for securing Face Brick, bonding Hollow and Veneer Walls. Absolutely perfect for the purpose.

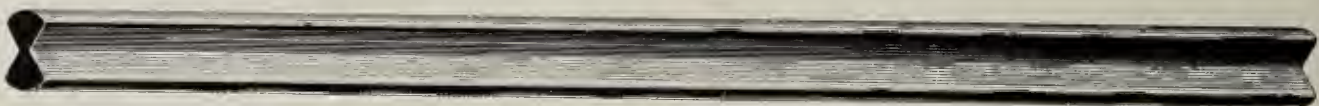
ALL SIZES



The only Metal Corner Plate that will not dent or mar, being made from a Solid Steel Rod. Most easily erected. Perfect alignment, adaptable to roughest corners.

CLIPS FOR VARIOUS SITUATIONS.

STOCK LENGTHS, 8, 10 AND 12 FEET.



PRESCOTT CORNER BEAD FULL SIZE.

Our products are now Specified and Used by thousands of Architects and Builders everywhere, because they are always Standard and can be fully relied upon.

Literature, Samples and Prices on request.

J. B. PRESCOTT & SON,

SPECIALTIES DEPT.

Agencies in all Cities,

WEBSTER, MASS.

Lloyd, W. H. S. Co. (Salamander, Fire Proof), 26 E 22d, New York
 Richter Mfg. Co. ("Tapestrolca" Burlaps & Canvas), Tenafly, N. J.
 Standard Table Oil Cloth Co. ("Sanatas" Washable Cloth), 320 B'way, New York
 Tex-Ta-Dor-Na Mfg. Co. (Burlaps & Canvas), Columbus, Ohio
 Turner, J. Spencer Co., (Burlaps & Canvas), 83 Worth, New York, N. Y.
 Wemple, Jay C. Co. ("Royal" Burlaps & Canvas), 35 E 20th, New York
 Wiggins, H. B. Sons Co. ("Fab-Ri-Ko-Na"), Bloomfield, N. J.

Wall Coverings (Imported)

Lloyd, W. H. S. Co., 26 E 22d, New York

Wall Finish

(The Trade Names of these Finishes are between each firm's name and address.)

Alabastine Co. (Alabastine), Grand av & G. R. & I. R'y, Grand Rapids, Mich.
 American Soapstone Finish Co. (Soapstone), Chester Depot, Vt.
 Anti-Kalsomine Co., Grand Rapids, Mich.
 Cardiff Gypsum Plaster Co. (Kallolite), Ft. Dodge, Ia.
 Casein Co. (Indurine) of America, 11 Pine, New York, & Bellows Falls, Vt.
 Diamond Wall Finish Co., Grand Rapids, Mich.
 Fox, M. Ewing & Co. (Permanite), 136 Rider av, New York
 Johnston, Henry M. Mfg. Co., 60 Washington av., Brooklyn, N. Y.
 Keystone Plaster Co. (Adamant), Chester, Pa.
 Manhattan Color Works ("Fres-Ko-Kote"), 197 Ams. av, N. Y.
 Moore, Benjamin & Co. (Muresco), 262 Water, Brooklyn, N. Y.
MURALO COMPANY, New Brighton, Boro of Richmond, N. Y. (See adv. index, end of book)
 New Buffalo Eureka Wall Finish & Mineral Paint Co., New Buffalo, Mich.
 Paragon Wall Plaster Co., Syracuse, N. Y.
 Shoemaker, Robert & Co. (Encaustic Compound), 4th & Race, Philadelphia, Pa.
 Standard Lime Co. ("Standard" Rock), Gibsonsburg, O., & 348 6th av, Pittsburgh, Pa.
 Troy Cold Water Kalsomine Co., 22 Paine, Troy, N. Y.
 United State Gypsum Co. (Liem & Cementus), 200 Monroe, Chicago, Ill., & Cleveland, Ohio
 Water Paint Co. (Crown & Petrol Brands), 100 William, New York
WHITTAKER, W. H. ("Continental"), 245 Front, New York
 Wotherspoon Plaster Mills, 1170 B'way, New York, & 725 Vernon av, Long Island City, N. Y.

Wall Paper (Fire-Proof)

EHRET MAGNESIA MFG. CO., Land Title bldg, Phila., Pa. (See adv. index & branch offices, end of book)
 Gilmour, R. M. Mfg. Co., 105 John, N. Y.

Wall Paper Mfrs.

Audebert Wall Paper Mills, 218 La Salle, Chicago, Ill.
 Bailey Wall Paper Co., Cleveland, O.
 Beck, F. & Co., 206 W 29th, New York.
 Becker, Smith & Page (Inc.), Snyder av & S Water, Phila., Pa.
 Benton, Heath & Co., Hoboken, N. J.
 Birge, M. H. & Sons Co., Buffalo, N. Y.
 Campbell, Wm. Wall Paper Co., Hackensack, N. J.
 Carey Bros. Co., 2228 N 10th, Phila., Pa.
 Cecil Paper Co. (Hanging Papers), York, Pa.
 Colonial Wall Paper Co., 1418 Race, Phila., Pa.
 Creswell & Washburn, Washington av & 18th, Fairfax Bros., Geneva, N. Y. Phila., Pa.
 Gledhill Wall Paper Co., 543 W 34th, New York
 Graves, Robt. Co., 397 Bridge, Brooklyn, N. Y.
 Higgins Wall Paper Co., Worcester, Mass.
 Imperial Wall Paper Co., Sandy Hill, N. Y.
 Ithaca Wall Paper Mills, Ithaca, N. Y.
 Janeway & Carpenter, New Brunswick, N. J.
 Janeway & Co., New Brunswick, N. J.
 McIlvaine, T. J. & Co., Langhorne, Pa.
 Maxwell, S. A. & Co., 121 Crosby, New York
 Potter Wall Paper Mills, 3 E 13th, New York
 Quaker City Wall Paper Co., E Thompson & E Westmoreland, Phila., Pa.
 Schmitz, Horning Co., Cleveland, O.
 Smeallie, P. H. & Co., Amsterdam, N. Y.

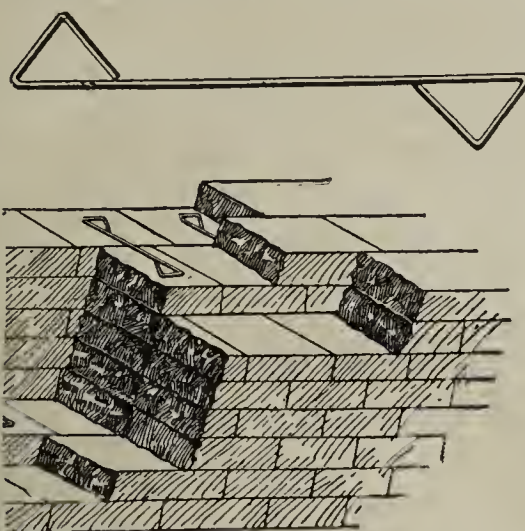
Standard Wall Paper Co., Sandy Hill, N. Y.
 Stoner Wall Paper Mfg. Co., Des Moines, Ia.
 Strahan, Thos. Co., Chelsea, Mass.
 Syracuse Paper & Pulp Co., Syracuse, N. Y.
 Tarrytown Wall Paper Co., Tarrytown, N. Y.
 Wallace Wall Paper Co., Cortlandt, N. Y.
 York Card & Paper Co., York, Pa.
 York Wall Paper Co., York, Pa.

Wall Plugs

PRESCOTT, J. B. & SON ("Rutty" Metal), Webster, Mass. (See adv. index, end of book)
 Mottu, Theo. & Co. ("Mottu," Wood), 1012 Penna. av, Baltimore, Md.

Wall Ties

(See also Veneer & Wall Ties.)
AMERICAN ROLLING MILL CO. ("Miami," "Bull Dog"), Middletown, O. (See adv. index, end of book)
ANDERSON FORGE & MACHINE CO. ("Anderson"), 271 Guoin, Detroit, Mich.
 C. A. Mfg. Co. ("Excelsior"), La Salle, Ill.
 Church Appliance So. ("Excelsior"), LaSalle, Ill.
CINCINNATI WALL TIE CO. (Steel), 206 E 5th, Cincinnati, O. (See adv. below)



CINCINNATI WALL TIE CO
 206 East 5th St., CINCINNATI, O.

CLASON ARCHITECTURAL METAL Works, 428 Kinsley av, Providence, R. I.
 Crescent Co. ("Crescent"), Valparaiso, Ind.
DUPLEX HANGER CO., Cleveland, O. (See adv. index, end of book)
 Hamblin & Russell Mfg. Co., "Perforated Steel," Worcester, Mass.
 Hewson, S. J. & Co. (Mfrs. Agts. "Morse"), 10 N 3d, Minneapolis, Minn.
 Hurd & Haggin ("New Yorker"), 316 Hudson, New York
INTERNATIONAL FENCE & FIRE- proofing Co. ("National"), Buttes av, Columbus, O. (See adv. index, end of book)
 Ketcham, O. W. (Mfrs. Agent), 24 S 7th, Phila., Pa.
 Levering, O. D. ("Capitol," "Buckeye"), 82 N 4th, Columbus, O.
 McDowell Mfg. Co. ("Pittsburg" Steel), 541 Wood, Pittsburg, Pa.
MERRITT & CO. (Expanded Metal), 1024 Ridge av, Phila., Pa. (See adv. index, end of book)
 Metal Stamping Co. ("Niagara"), Niagara Falls, N. Y.
 Minnesota Tank Co., 1415 S. E. 8th, Minneapolis, Minn.
 Peters, Jas & Son (Steel), 1934 N Front, Phila., Pa.
PRESCOTT, J. B. & SON ("Morse" Ties & Bonds), Webster, Mass. (See adv. index, end of book)
RIESECK, P. (Wrought Steel), Allegheny av & Rebecca, Allegheny, Pa. (See adv. index, end of book)
SMITH, F. P. WIRE & IRON WORKS, 100 Lake, Chicago, Ill. (See adv. index, end of book)
 Specialty Mfg. Co. ("Leader," "Acme"), Allegheny, Pa.
 Taft's Eagle Claw Wall Tie Co. ("Taft's Eagle"), Topeka, Kan.

Union Brick Bond Co. ("Union"), Arrot Power bldg., Pittsburg, Pa.
 Union Building Material Co. ("Union"), 1170 B'way, New York
WRIGHT WIRE CO. ("Cinch"), Worcester, Mass. (See adv. index & branch offices, end of book)

Wardrobes (Office)

Sargent Mfg. Co., Muskegon, Mich.

Wardrobes (Ventilated, School & Hotel)

BERGER MFG. CO., Main Office & Works, Canton, O. (See adv. index & branch offices, end of book)
 Flexifold Door & Shutter Co., Worcester, Mass.
MERRITT & CO., 1020 Ridge av, Philadelphia, Pa. (See adv. index, end of book)
SMITH, F. P. WIRE & IRON WORKS, 100 Lake, Chicago. (See adv. index, end of book)
WILSON, JAS. G. MFG. CO. Chief Office, 3 W 29th, New York, N. Y. Mills & Factory, Norfolk, Va. (See adv. index, end of book)

Wash Board Mfrs.

American Wash Board Co., Cleveland, O.

Wash Trays (Porcelain)

(See Bath Tubs, Porcelain.)

Washers (Air)

Buffalo Forge Co. ("Buffalo"), Buffalo, N. Y.

Washers (Air Brake)

BOSTON BELTING CO., 260 Devonshire, Boston, Mass., & 100 Reade, New York. (See adv. index & branch offices, end of book)

Continental Rubber Works, Erie, Pa.
 Darling Pump & Mfg. Co., Williamsport, Pa.
 N. J. Car Spring & Rubber Co., Jersey City, N. J.
U. S. INDESTRUCTIBLE GASKET Co., 16 S. William, New York. (See adv. index, end of book)

Washers (Basket)

Tower Mfg. Co., Commerce & Elm, Cincinnati, O., & Madison, Ind.

Washers (Bottle & Tumbler)

Whiteman Mfg. Co. ("Lighting"), Canton, O.

Washers (Brass & Copper)

American Iron & Steel Mfg. Co., Lebanon, Pa.
 Benedict & Burnham Mfg. Co., Waterbury, Conn.
 Brass Goods Mfg. Co., cor. Nevin & Union, Brooklyn, N. Y.
 Bridgeport Brass Co., Bridgeport, Conn., & 19 Murray, N. Y.
 Continental Rubber Works, Erie, Pa.
 Gaynor & Mitchell Mfg. Co. (Brass for Steam, Gas & Water Fittings), Bridgeport, Conn.
 Haskell, Wm. H. Mfg. Co., Pawtucket, R. I.
HUNGERFORD, U. T. BRASS & COP- per Co. (Mfrs. Agts.), 497 Pearl, N. Y.
 Humphrey, H. W., Unionville, Conn.
 Nicetown Plate Washer Co. (Brass), 1822 Juniata, Nicetown, Phila., Pa.
 Plume & Atwood Mfg. Co., Waterbury, Conn.
 Rome Brass & Copper Co., Rome, N. Y.
 Steele & Johnson Mfg. Co., Waterbury, Conn.
U. S. INDESTRUCTIBLE GASKET Co., 16 S. William, New York. (See adv. index, end of book)
 Voelkner & Reinke Mfg. Co., 123 W. Woodbridge, Detroit, Mich.
 Waterbury Brass Co., Waterbury, Conn., & 99 John, N. Y.
 Waterbury Mfg. Co. (Brass Only), Waterbury, Conn.

Washers (Car Box)

(See Washers, Fibre, etc.)

Washers (Cast Iron)

American Iron & Steel Mfg. Co. (And Spools), Lebanon, Pa.
BETHLEHEM FOUNDRY & MACHINE CO. ("Star"), Front, South Bethlehem, Pa., & 149 B'way, New York. (See adv. index, end of book)
CANTON FOUNDRY & MACHINE CO., Canton, O. (See adv. index, end of book)
 Cheney, S. & Son, Manlius, N. Y.
 Columbus Bolt Works, Columbus, O.
 Haskell, W. H. Mfg. Co., Pawtucket, R. I.
 Hoopes & Townsend Co., 1330 Buttonwood, Phila., Pa.

Keagy & Lear Machine Co., Coshocton, O.
 King & Andrews Co. (Cast Iron), 37 N State, Chicago Heights, Ill.
 Kupferle, John C., 2d & Mound, St. Louis, Mo.
 Lanz, M. & Sons, 101 S 29th, Pittsburgh, Pa.
 Moran Bolt & Nut Mfg. Co., St. Louis, Mo.
NATIONAL SUPPLY CO., 7 W Lombard, Baltimore, Md. (See adv. index, end of book)
 Nicetown Plate Washer Co., 1832 Juniata, Nicetown, Phila., Pa.
 Payne's Bolt Works, San Francisco, Cal.
 Pleuger & Henger Mfg. Co., Hebert c 11th, St. Louis, Mo.
 South Baltimore Steel Car & Foundry Co., Baltimore, Md., & 66 Beaver, New York
 Stover Mfg. Co., Freeport, Ill.
 Western Foundry & Sash Weight Co., 159 Miller, St. Louis, Mo.
 Wichita Mfg. Co., Wichita, Kan.

Washers (Fibre)

(See also Fibre Mfrs., Hard.)

American Vulcanized Fibre Co. (Vulcanized), Wilmington, Del.
 Delaware Hard Fibre Co., Wilmington, Del.
 Diamond State Fibre Co., Elsmere, Del.
 Leatheroid Mfg. Co., Kennebunk, Me., & 108 Lincoln, Boston, Mass.
SPAULDING, J. & SONS CO. (Hard Fibre), North Rochester, N. H. (See adv. index, end of book)
U. S. INDESTRUCTIBLE GASKET Co., 16 S. William, New York. (See adv. index, end of book)

Washers (Friction)

Morgan Spring Co., Worcester, Mass.

Washers (Galvanized)

Keystone Nail Co., Philadelphia, Pa.
 Lanz, M. & Sons, Pittsburgh, Pa.
 Nicetown Plate Washer Co., 1822 W. Juanita, Philadelphia, Pa.

Washers (Graphite)

Graphite Lubricating Co., Bound Brook, N. J.

Washers (Insulating)

American Vulcanized Fibre Co., Wilmington, Del.
 Delaware Hard Fibre Co., Wilmington, Del.
 Diamond State Fibre Co., Elsmere, Del.
GENERAL ELECTRIC CO., Schenectady, N. Y., & 44 Broad, New York. (See adv. index & branch offices, end of book)
 Johns, H. W.-Manville Co., 100 Williams, N. Y.
 Leatheroid Mfg. Co., Kennebunk, Me., & 108 Lincoln, Boston, Mass.
 Mica Insulator Co., 218 Water, New York
 Schoonmaker, Adrian O., 221 Fulton, New York
 Sills, W. H. Mica Co., 64 Michigan, Chicago, Ill.
U. S. INDESTRUCTIBLE GASKET Co. (Asbestos), 16 S. William, New York. (See adv. index, end of book)
WESTINGHOUSE ELECTRIC & MFG. Co., Pittsburgh, Pa. (See adv. index & branch offices, end of book)

Washers (Iron & Steel)

Aetna Nut Co., Southington, Conn.
 American Iron & Steel Mfg. Co., Lebanon, Pa.
 Avery Stamping Co. (Wrought Steel), Cleveland, Ohio
 Beall Bros., Inc. (Wrought), Alton, Ill.
 Bettcher Mfg. Co., Cleveland, Ohio
 Bourne & Knowles Mfg. Co., 1231 Main av, N. W., Cleveland, O.
 Capital Lock Nut & Washer Co., Columbus, O.
 Chisholm, Wm. & Sons (Steel Plate), Cleveland, Ohio

Cincinnati Screw & Tap Co., 2442 Beekman, Cincinnati, O.
 Clark Bros. Bolt Co., Milldale, Conn.
 Clark, W. J. Co., Salem, O.

Clark & Cowles, Plainville, Conn.
 Cobb & Drew, Plymouth, Mass., & Rock Falls, Ill.
 Columbus Bolt Works, Columbus, O.
 Continental Bolt & Iron Works, 22d & Union, Chicago, Ill.
 Corbin Screw Corporation, New Britain, Conn.
 Diamond State Steel Co., Wilmington, Del.
 Dietrich Bros., 344 North, Baltimore, Md.
 Falls Rivet & Machine Co., Cuyahoga, O.
 Graham Nut Co., W. Carson nr. Point Bridge, Pittsburgh, Pa.
 Greenlie, Wyatt & Co., 499 Water, N. Y.
 Griffin Mfg. Co. (Wrought), Erie, Pa.
 Hager, C. & Sons Hings Mfg. Co., 2427 De Kalb, St. Louis, Mo.
 Hall's, Sam'l Sons, 229 W 10th, New York
 Haskell, Wm. H. Mfg. Co., Pawtucket, R. I.
 Hazel Atlas Glass Co., Wheeling, W. Va.
 Hoopes & Townseud Co., 1330 Buttonwood, Philadelphia, Pa.

Hubbard & Co., Pittsburgh, Pa.
 Humphrey, H. W., Unionville, Conn.
 Judson Mfg. Co., San Francisco, Cal.
 Kansas City Bolt & Nut Co., Kansas City, Mo.
 Krips-Mason Machine Co. (Wrought, "Blue Ribbon," "K. M." Washers, Satin Finish), 1636 N Hutchinson, Phila., Pa.
 Lake Erie Iron Co., 155 St. Clair, Cleveland, O.
 Lamson & Sessions Co. (Plate, etc.), Cleveland, O.

Lanman, E. B. Co. (Wrought Iron), Columbus, Ohio
 Lanz, Mathew & Sons (Square & Round), 101 S 29th, Pittsburgh, Pa.
 McKeel, Geo. A. & Co. (Steel), Jackson, Mich.
 McKinney Mfg. Co. (Steel), Allegheny, Pa.
 Mason Multiple Plate Washer Co. (Flat Plate), Real Est. Trust bldg, Phila., Pa.
 Meyer & Co., Auburn, N. Y.
 Michigan Bolt & Nut Works, Detroit, Mich.
 Milton Mfg. Co., Milton, Pa.
 Moore, Franklin Co., Winsted, Conn.
 Moran Bolt & Nut Mfg. Co., St. Louis, Mo.
 Mt. Carmel Bolt Co., Mt. Carmel, Conn.
NATIONAL SUPPLY CO., 7 W Lombard, Baltimore, Md. (See adv. index, end of book)

Neely Nut & Bolt Co., S 22d & P. & L. R. R., Pittsburgh, Pa.

New Castle Forge & Bolt Co. ("Wrought"), New Castle, Pa.
 New England Bolt & Nut Co., 267 Atlantic av, Boston, Mass.

Nicotown Plate Washer Co. (Round or Square), 1822 Juniata, Nicetown, Phila., Pa.
 Old Dominion Iron & Nail Works Co., Richmond, Va.

Pawtucket Mfg. Co., Pawtucket, R. I.
 Payne's Bolt Works (Wrought), San Francisco, Cal.

Pittsburg Mfg. Co. (Iron), 28th & Railroad, Pittsburgh, Pa.
 Pittsburg Screw & Bolt Co., Liberty av & 25th, Pittsburgh, Pa.

Pittsburg Shovel Co. (Steel), Frick bldg, Pittsburgh, Pa. Works, Leechburg, Pa.
 Plymouth Mills (Small), Plymouth, Mass.
 Reed & Prince Mfg. Co., Worcester, Mass.

Republic Iron & Steel Co., Frick bldg. Annex, Pittsburgh, Pa.
 Rhode Island Tool Co., Providence, R. I.

Richards, T. C. Hdw. Co., Winsted, Conn.
 Russell, Burdsall & Ward Bolt & Nut Co., Portchester, N. Y.

Scranton Bolt & Nut Co., Scranton, Pa.
 Smith, Thos. & Co., Worcester, Mass.
 Sessions, J. H. & Son (Steel), Bristol, Conn.

STANLEY WORKS (Wrought Steel), New Britain, Conn., & 79 Chambers, New York. (See adv. index, end of book)

Stover Mfg. Co., Freeport, Ill.
 Taunton Rivet Co. (Steel), Taunton, Mass.

Union Iron Works, Houston, Tex.
 Union Nut & Bolt Co. (Wrought Iron), Unionville, Conn., & Cleveland, Ohio

Upson Nut Co., Unionville, Conn., & Cleveland, Ohio
 Wilcox, Crittenden & Co., Middletown, Conn.

Wilmington Malleable Iron Co. (Malleable Iron), Wilmington, Del.
 Wrought Washer Mfg. Co. (Wrought & Steel Plate of all kinds), Milwaukee, Wis.

Washers (Lead)

EDWARDS MFG. CO., Eggleston av, & 4th & 5th, Cincinnati, O. (See adv. index, & branch offices, end of book)
 Littleford Bros., 453 E. Pearl, Cincinnati, O.

Selby Smelting & Lead Co., San Francisco, Cal.
 Tatham & Bros., 224 S. 5th, Phila., Pa.
U. S. INDESTRUCTIBLE GASKET Co. (And Alloys), 16 S. William, New York. (See adv. index, end of book)
 Voelkner & Reinke Mfg. Co., 123 W. Woodbridge, Detroit, Mich.

Washers (Leather)

Bay State Leather Axle Washer Co., 80 High, Boston, Mass.

Bell, Andrew ("Boss"), 371 Market, Newark, N. J.
 Chicago Rawhide Mfg. Co. (Rawhide), 75 E. Ohio, Chicago, Ill.

Bell, Andrew ("Boss"), 371 Market, Newark, N. J.
 Chicago Rawhide Mfg. Co. (Rawhide), 75 E. Ohio, Chicago, Ill.

Climax Specialty Co., Seneca Falls, N. Y.
 Darling Pump & Mfg. Co., Williamsport, Pa.
 Detroit Leather Specialty Co., 271 Beecher av, Detroit, Mich.

Glauber, M. & Co., 317 E 58th, New York
 Glauber, Samuel S., 1395 3d av, New York
 Graton & Knight Mfg. Co., Worcester, Mass.

Goodsell Packing Co. ("New Century"), 33 S Canal, Chicago, Ill.
 Hoffeld, R. & Co., Buffalo, N. Y.

Houghton, E. F. & Co., "Vim," 240 W Somerset, Phila., Pa.

Jenkins Bros., 71 John, N. Y.
 Judd & Leland Mfg. Co., Clifton Springs, N. Y.
 Kendrick Valve & Washer Co., Syracuse, N. Y.

Leather & Brass Mfg. Co., Auburn, N. Y.
 Marston, I. G. & Co., 226 Ruggles, Boston, Mass.

Mitchell, E. J. & Co., 327 Van Buren, Brooklyn, N. Y.
 Newark Leather Washer Co., Newark, N. J.

New Process Raw Hide Co., Syracuse, N. Y.
 New York Washer Works, 78 Barrow, N. Y.

Ogden, C. S. & Co., 674 E 159th & 52 Ferry, New York
 Page Belting Co., Concord, N. H.
 Providence Belting Co. ("Champion" Sole Leather), 25 Charles, Providence, R. I.

Raymond Mfg. Co., Corry, Pa.
 Sherman, H. B., Mfg. Co., Battle Creek, Mich.

Sovereign, C. E. Co., (All kinds, up to 10 in. diameter), Rockford, Ill.

Washers (Lock)

Boston Bolt Co., Boston, Mass.
 Hobbs Mfg. Co., Worcester, Mass.

National Lock Washer Co., 65 Johnson, Newark, N. J.
 United States Whip Co., Westfield, Mass.

Voelkner & Reinke Mfg. Co., 123 W. Woodbridge, Detroit, Mich.

Whittlesey, H. E. & Sons, Corry, Pa.

Washers (Malleable Iron)

St. Louis Malleable Casting Co., St. Louis, Mo.

*Washers (Metallic)

AMERICAN LAUNDRY MACHINERY Co. (For Hospitals, Hotels & Institutions), Norwood, Cincinnati, O.; 132 W. 27th, New York. (See adv. index, end of book)

*Washers (Metallic, for Boiler Makers')

U. S. INDESTRUCTIBLE GASKET Co. (Large, Extra Heavy, Copper), 16 S. William, New York. (See adv. index, end of book)

Washers (Milk Can)

Stoddard Mfg. Co., Rutland, Vt.

Washers (Name Plate)

Wolverine Brass Works, Grand Rapids, Mich.

Washers (Nickel Plated)

Springfield Machine Screw Co., Springfield, Mass.

U. S. INDESTRUCTIBLE GASKET Co., 16 S. William, New York. (See adv. index, end of book)

Washers (Phosphor Bronze)

Phosphor Bronze Smelting Co., 2200 Wash'n av., Phila., Pa.
U. S. INDESTRUCTIBLE GASKET
 Co., 16 S. William, New York. (See adv. index, end of book)

Washers (Plumbers')

Bell, Andrew ("Bell"), Newark, N. J.
BERNZ, OTTO, S. 13th & S. Orange
 av., Newark, N. J. (See adv. index, end of book)
 Gaynor & Mitchell Mfg. Co., Bridgeport, Conn.
 Plume & Atwood Mfg. Co. (Brass, etc.), Waterbury, Conn.
 Williams, D. B., 2047 Market, Phila., Pa.
 Wolverine Brass Works (Nickel Plated), Grand Rapids, Mich.

***Washers (Pulpboard)**

U. S. INDESTRUCTIBLE GASKET
 Co., 16 S. William, New York. (See adv. index, end of book)

Washers (Rubber)

BOSTON BELTING CO., 260 Devon-
 shire, Boston, Mass.; 100 Reade, New York. (See adv. index, & branch offices, end of book)
 Boston Woven Hose & Rubber Co., Executive Office & Factory, Cambridgeport, Mass.
 Canfield, H. O. Co., Bridgeport, Conn.
 Consolidated Rubber Co., Trenton, N. J.
 Continental Rubber Works, Erie, Pa.
 Crescent Belting & Packing Co., Trenton, N. J.
 Elkhart Rubber Works, Elkhart, Ind.
 Empire Rubber Mfg. Co., Trenton, N. J., & 60 Reade, New York
 Goodrich, B. F. Co., Akron, O.
 Goodyear Rubber Co., 787 B'way, New York, & 107 Lake, Chicago, Ill.
 Gutta Percha Rubber & Mfg. Co., 126 Duane, New York.
 Hamilton Rubber Mfg. Co., Trenton, N. J.
 Hartford Rubber Works Co., Hartford, Conn., & 83 Michigan av, Chicago, Ill.
 Hone Rubber Co., Trenton, N. J.
 International Automobile & Vehicle Tire Co., Milltown, N. J.
 Manhattan Rubber Mfg. Co., 126 Duane, New York, & 96 Lake, Chicago, Ill.
 Marston, I. G. & Co. (Machine Cut), Boston, Mass.
 Mechanical Rubber Co., 91 Chambers, New York
 Morgan & Wright (Inc.), 226 Jefferson av, Detroit, Mich.
 N. J. Car Spring & Rubber Co., Jersey City, N. J.
 New York Belting & Packing Co. (Ltd.), 91 Chambers, New York
 Republic Rubber Co., Youngstown, O.
 Revere Rubber Co., 77 Bedford, Boston, Mass.
 Stokes, Jos. Rubber Co., Trenton, N. J.
 Trenton Rubber Mfg. Co., Trenton, N. J.
 United & Globe Rubber Mfg. Co., Trenton, N. J.
 Voorhees Rubber Mfg. Co., 18 Bostwick av, Jersey City, N. J., & 48 Dey, N. Y.
 Whitehead Bros. Rubber Co., Trenton, N. J.

Washers (Street & Hydrant)

Connolly Supply Co., 1073 Atlantic av, Brooklyn, N. Y.
 Dayton Supply Co., Dayton, Ohio
 Murdock, J. G. & Co., 428 Plum, Cincinnati, O.
 Pleuger & Henger Mfg. Co., 11th & Hebert, St. Louis, Mo.
RUMSEY & CO. (Ltd.), Seneca Falls,
 N. Y. (See adv. index & branch offices, end of book)

Washers (Tin)

Humphreys, H. W. (Carpet, etc.), Unionville, Conn.
J. S. INDESTRUCTIBLE GASKET
 Co., 16 S. William, New York. (See adv. index, end of book)
 Koelkner & Reinke Mfg. Co., 123 W Woodbridge, Detroit, Mich.

Washers (Vehicle)

Columbus Bolt Works, Columbus, O.
 Ideal Carriage Washer Co. ("Ideal"), Rochester, N. Y.
 Nicholsburg, H. Mfg. Co. (Automobile), 68 Dey st, N. Y. City
 Perfect Mfg. Co. (Automobile, "Perfect"), Saratoga Springs, N. Y.
 Ryan & Long, Appleton, Wis.
 Vehicle Specialty Co., Hartford, Conn.

Washers (Wire)

Raymond Mfg. Co., Corry, Pa.

Washers & Burrs (Brass & Copper)

(See Washers, Brass & Copper.)

Washing Machines

Acme Washing Machine Co. ("Acme"), Columbus, O.
AMERICAN LAUNDRY & MACHIN-
 ery Co., Norwood, Cincinnati, O.; 132 W 27th, New York (See adv. index, end of book)
 American Wooden Ware Mfg. Co. ("Everybody's" Rotary, "Toledo" Rotary, "American" Rotary, "Western," "Run-Easy," "Monarch" Rotary & Electric Motor), Toledo, O.
 Anthony Wayne Mfg. Co. ("Anthony Wayne"), Fort Wayne, Ind.
 Baughman, N. C. ("New Miller"), York, Pa.
 Benbow-Brammer Mfg. Co. ("B-B," "Brammer," "Columbia," "Columbia Toy," "Great Western," "Schroeder"), St. Louis, Mo.
 Blackstone Mfg. Co. ("American," "Union," "Blackstone," "Challenge," "Chautauqua," "Sun," "Western," "Pan American," "Western-Defender"), Jamestown, N. Y.
 Bluffton Mfg. Co. ("American," "Rainbow," "Western," "Western American"), Bluffton, Md.
 Boss Washing Machine Co. ("Banner," "Banner Rotary," "Boss Rotary," "Champion," "Cincinnati Western," "Dietz," "Improved Globe," "New Standard," "Uneda American," "X-L"), Cincinnati, Ohio
 Brammer, H. F. Mfg. Co. ("Brammer," "O-I-C," "O-K"), Davenport, Ia.
 Brown, M. & Co. ("United States"), Wapakoneta, O.
 Buckeye Churn Co. ("Buckeye," "Hero," "Queen"), Sidney, O.
 Buckeye Motor Mfg. Co. (Motor), Dayton, O.
 Clark, Quilen & Morse ("Peoria"), Peoria, Ill.
 Climax Washer Co. ("Climax," "New Century"), Oakville, Ind.
 Crammond Mfg. Co., Waukegan, Ill.
 Craw, J. W. Laundry Machy. Co. South Norwalk, Conn.
 Davenport Washing Machine Co. ("White Swan"), Davenport, Ia.
 Drumm, Manuel ("Champion," "Drumm's Best"), Tipton, Mo.
 Elgin Combination Wagon Box Co. ("Leader"), Elgin, Ill.
 Empire Washer Co., Jamestown, N. Y.
 Froelich Mfg. Co., St. Paul, Minn.
 Gee-Whizz Mfg. Co. ("Gee Whizz"), Des Moines, Ia.
 Glascock Bros. Mfg. Co. ("Handy," "New Era"), Muncie, Ind.
 Horton Mfg. Co. ("American," "Globe," "Horton," "Wayne," "Western"), Fort Wayne, Ind.
 Huenfeld, E. H. Co. (Inc.) ("Royal"), Spring-grove av & Straight, Cincinnati, O.
 International Mfg. Co. ("Wizard"), Omaha, Neb.
 Kirkville Mfg. Co. ("Cyclone"), Kirkville, Mo.
 Lochart, G. ("New Standard," "Standard"), Bryan, O.
 McGranahan, S. ("Mack Favorite"), Davenport, Ia.
 Mears Rubber Co. ("Perfect"), 338 B'way, Brooklyn, N. Y.
 Michigan Washing Machine Co. ("Guarantee," "Peerless"), Muskegon, Mich.
 Miller, Wm. S. ("Home Gem"), Meyersdale, Pa.
 Myers, J. W. & Co. ("Myers-Perfect"), Ashland, O.
 Nineteen Hundred Washer Co. ("Nineteen Hundred"), Binghamton, N. Y.
 Oaks Mfg. Co. ("Pedigo Perfection," "Peerless"), Bloomington, Ind.
 Paragon Mfg. Co., Monadnock Bldg, Chicago, Ill.
 Perfection Mfg. Co. ("Perfection"), Cowan, Ind.
 Ross, C. E. ("World," "Star"), Lincoln, Ill.
 Schriver, O. P. & Co. ("I. X. L."), Cincinnati, Ohio
 Simplex Washer Co. ("Simplex"), Davenport, Ia.
 Standard Churn Co. ("Standard"), Wapakoneta, O.
 Steel Roll Machine Co. (Hand or Belt Power), 8 S Canal, Chicago, Ill.

Trappe, Chas. H. ("Sucker State"), Mascoutah, Ill.
 Twentieth Century Mfg. Co. ("Twentieth Century"), Mansfield, O.
 U. S. Washing Machine Co. ("United States"), Racine, Wis.
 Voss Bros. Mfg. Co. ("Eagle High Speed," "High Speed," "Rotary," "Ocean Wave"), Davenport, Ia.
 Walker Mfg. Co. ("Five Minutes"), Council Bluffs, Ia.
 Wayne Mfg. Co. ("Wayne"), St. Louis, Mo.
 Waverly Woodenware Works ("Waverly"), St. Joseph, Mo.
 White Lily Washer Co. ("White Lily," "White Rose," "White Daisy"), Davenport, Ia.
 Wiard Mfg. Co. ("Wiard's Standard"), East Avon, N. Y.

Waste Cleaning Machines

Turner, M. A., 2777 N Lincoln, Chicago, Ill.

Waste (Cotton & Wool Mfrs.)

Adams Bros., 571 Atlantic av, Boston, Mass.
 Allison, G. F. & Co., Utica, N. Y.
 Barlow, S. A., North Dighton, Mass.
 Barton & Cookson, Fitchburg, Mass.
 Bishop, Robt. Mfg. Co., 157 W. 6th, Boston, Mass.
 Blaisdell, S., Jr., Co., Chicopee, Mass.
 Blakeley, Jno. & Son (Cotton & Wool), 1083 Gtn av, Philadelphia, Pa.
 Bork, Albert, Camden, N. J.
 Bowman, D. F., New Albany, Ind.
 Bradford, Lewis & Son, Walpole, Mass.
 Briggs, H. A. & Co. (Cotton), Pawtucket, R. I.
 Brooks, Geo B. (Wiping), Providence, R. I.
 Capron, Chas. C. (Wool), Uxbridge, Mass.
CARPENTER, GEO. B. & CO., 202 S
 Water, Chicago, Ill. (See adv. index, end of book)
 Cheney, P. C. Co. (Cotton), Manchester, N. H.
 Coburn, Walter & Co., 14 Wannalancit, Lowell, Mass.
 Crefeld Waste & Batting Co., Saylesville, R. I.
 Crerar, Adams & Co. (Jobbers), 11 5th av., Chicago, Ill.
 Davis, Wm. S. (Wool Yarns for Car Box Waste, etc.), Manayunk, Phila., Pa.
 Devlin, Chas. (Cotton & Wool), Hilton & Kensington, Phila., Pa.
 Devon Mills (George S. Browne, Prop'r), (Machined), Providence, R. I.
 Dighton Waste Co., North Dighton, Mass.
 Dixon, Wm. F. & Son (Cotton & Wool), Manayunk, Philadelphia, Pa.
 Egan, K. & Co. Baltimore Waste Co., Baltimore, Md.
 Farrand, Arthur (Cotton), Hudson, N. Y.
 Frankford Waste Co., Fkd., Phila., Pa.
 Franklin Mfg. Co. (Wool Waste), Franklin, Pa.
 Fredlander, Julius & Co. (Cotton Waste & Linters), Columbus, Ga.
 Gallagher, D. J. Mfg. Co., 283 S Canal, Chicago
 Graves, Frank B. (Wool), Albany, N. Y.
 Hagy, J. Milton, Waste Works (Ltd.), Bourse bldg., Phila., Pa.
 Hill & Cutler, 567 Atlantic av, Boston, Mass.
 Hirsch, I. C. Iron, Steel & Rail Co. ("I. C. H.") Wiping Waste, Cincinnati, O.
 Hoffman-Corr Mfg. Co., 55 White, New York
 Houghton, E. F. & Co. (Cotton), 240 W. Somerset, Phila., Pa.
 Lehmer, Jos. R. (Dealer), 1212 Farnam, Omaha, Neb.
 Lewis, Jas. B. (Cotton Wiping Waste), Wal-Lewis Bros., Fall River, Mass.
 Lillie, Dexter, P. & Co., Springfield, Mass.
 Massasoit Mfg. Co., Fall River, Mass.
 Mayo, A. N. & Co., Springfield, Mass.
 Milton, Hagy J. Waste Works (Ltd.), Bourse bldg., Phila., Pa.
 Mohawk Mfg. Co. (Cotton & Wool), Oswego, N. Y.
 Moore, Geo. C. (Wool), N Chelmsford, Mass.
 Olmstead & Tuttle Co. (For R. R. & Machinery, etc.), Chicopee, Mass.
 O'Neill Bros. (for R. R. Purposes, etc.), Oxford & Howard, Phila., Pa.
 O'Neill Bros. (For R. R. Purposes, etc.), Columbia av & Howard, Phila., Pa.
 Peck, Asa & Co. (Cotton & Wool), Providence, R. I.
 Railway Supply & Mfg. Co. (Inc.), 1242 Harrison av, Cincinnati, O.
 Riverside Mills, Augusta, Ga.
 Rodney, Wallace, Fitchburg, Mass.
 Southern Waste Works (Ltd.), 16th & Carpenter, Phila., Pa.
 Springfield Waste Co. (Cotton Packing & Wiping Waste, Springfield, Mass.

STRONG MACHINERY & SUPPLY CO.
("Strong's" White & Colored), 48 Franklin,
New York. (See adv. index, end of book)
Sykes, David (Also Wool & Wool Waste for
Railroads), Dauphin & Amber, Phila., Pa.
Troy Waste Mfg. Co., Troy, N. Y.
Union Wadding Co. (Wiping), Pawtucket, R. I.
Wallace, Rodney, Fitchburg, Mass.

Waste Heat Utilizers

(See Fuel Economizers.)

Waste & Overflows (Bath)

A. D. Mfg. Co. ("Romeyn" Connected), De-
troit, Mich.
Climax Specialty Co., Seneca Falls, N. Y.
Edwardsville Brass Co., Edwardsville, Ill.
Milwaukee Brass Mfg. Co., 241 Lapham, Mil-
waukee, Wis.
Morrison-Kretschmer Co. ("Morrison"), Dubuque,
Iowa
Ohio Brass & Iron Mfg. Co., Cleveland, O.
Ohio Pump & Brass Co. ("Union" Basin Waste),
18th & Oak, Columbus, O.
Wolverine Brass Works, Grand Rapids, Mich.

*Watch Case Materials

**UNITED WIRE & SUPPLY CO. (Gold
& Silver, Sheet, Flat Plate, Wire, Plated
Wire, Solder, etc.), 109 Summer, Provi-
dence, R. I. (See adv. index, end of book)**

Watchman's Time Detectors

(See Clocks, Watchman's.)
(Also Time Recorders.)

Water Closet Clamps

(See Clamps, Water Closet.)

Water Closet Mfrs.

(See also Water Closet Trade Names.)

Adee, Fred. & Co., 44 Cliff, New York
Ald-Don Co., 411 River, Troy, N. Y.
Bailey-Farrell Mfg. Co., 3d & Ross, Pittsburg,
Pa.
Barrett, Jas. Mfg. Co., 211 Franklin, Boston,
Mass.
Blessing, C. A., 515 Montgomery av., Phila., Pa.
Clow, Jas. B. & Sons, 344 Franklin, Chicago,
Ill.
Columbus Brass Co., Columbus, O.
Colwell Lead Co., 51 Centre, N. Y.
Connolly Supply Co. (Non-Freezing, Outdoor),
1071 Atlantic av., Brooklyn, N. Y.
Cooper, W. S. Brass Works, Phila., Pa.
Courtney & Johnson, 238 2d av., S. Minneapolis,
Minn.
Crane-Hawley Co., Court c. Sycamore, Cincin-
nati, O.
Dalton-Ingersoll Mfg. Co., 169 High, Boston,
Mass.
Day Metallic Mfg. Co. (Steel Enamelled), De-
troit, Mich.
Decoco Co., 155 High, Boston, Mass.
Dimock & Fink Co., 220 E 125th, N. Y.
Douglas, John Co., 906 Poplar, Cincinnati, O.
Du Bois, F. N. & Co., 245 9th av., N. Y.
Fisher, E. W. Co., 521 Superior, Cleveland, O.
Fleck Bros., 44 N 5th, Phila., Pa.
Fort Pitt Supply Co., 332 2d av., Pittsburg, Pa.
Froelish Bros., 142 N 7th, Phila., Pa.
Gibson, Thos. Co., 633 Walnut, Cincinnati, O.
Haas, Philip ("Haas" Frost Proof), Dayton, O.
Haines, Jones & Cadbury Co., 1136 Ridge av.,
Phila., Pa.
Hamilton, Jno. H., 71 Charlotte av., Detroit,
Mich.
Hercules Iron & Supply Co., 427 Commercial,
Boston, Mass., & Anniston, Ala.
Hess, Chas. Co. ("Hess" for Export), 129 Front,
New York
Holbrook Merrill & Stetson (Combinations), 221
Market, San Francisco, Cal.
Huber, Henry Co., 244 5th av., N. Y.
Hussey, Wm. H. & Son, 150 W 35th, N. Y.
Hyde, Clinton, Albany, N. Y.
Illinois Malleable Iron Co., 30 W Monroe, Chi-
cago, Ill.
Jersey City Supply Co., 12 Mercer, Jersey City,
N. J.
Kelly, Thos. & Bros. (Self-Acting & "Kelly"
Seat Action), W. Congress & S. 46th av.,
Chicago, Ill.
Kenney Mfg. Co. (Flushometer), 36 E. 22d,

Knott-Van Arnham Mfg. Co., Ft. Wayne, Ind.
Kohler, J. M. Sons Co. (Enamelled Iron), She-
boygan, Wis.
Lipp, Louis Co., Mitchell av & B. & O. S. W.
R. R., Cincinnati, O., & 120 High, Bos-
ton, Mass.

McCambridge & Co., 315 N. 20th, Phila., Pa.
McDonald, A. Y. Co., 111 Lake, Chicago, Ill.
Maddock, Thos. Sons Co., Trenton, N. J.
Mayor, Lane & Co., 128 White, N. Y.
Meyer-Sniffen Co. (Ltd.), 11 W. 36th
Morrison-Kretschmer Co., Dubuque, Ia.
Mott, J. L. Iron Works, 118 5th av., New York
Mowry & Phillips, 197 High, Boston, Mass.
Natuero Co. ("Natuero"), Salem, N. J.
Nelson, N. O. Mfg. Co., 424 N 8th, St. Louis,
Mo.

Newell-Booth Co., Broad & Buttonwood, Phila.,
Pa.

Nunn Brass Works, 17 Wentworth, Rochester,
O. K. Mfg. Co., Ann Arbor, Mich. N. Y.
Owen & Salter, N 12th & Buttonwood, Phila.,
Pa.

Park & McKay Co., 55 Bagley av., Detroit, Mich.
PECK BROS. & CO. (Combinations),
127 Chestnut, New Haven, Conn.; 27 W
42d, N. Y., & 328 Boylston, Boston, Mass.
(See adv. index, end of book)

Pfau Mfg. Co., 536 Reading rd., Cincinnati, O.
Pittsburg Brass Mfg. Co., Penn. av & 32d,
Pittsburg, Pa.

Pittsburg Supply Co., 226 1st av., Pittsburg, Pa.
Reynolds, M. Plumbers' Supply Co., 25 Centre,
N. Y.

Robertson, Jas. Mfg. Co., 14 S Hanover, Balti-
more, Md.

Rumsey, L. M. Mfg. Co., 806 N 2d, St.
Louis, Mo.

Rundle-Spence Mfg. Co., Milwaukee, Wis.
Sanitary Mfg. Co., Hamilton, O.
Sanitas Mfg. Co., 48 Union, Boston, Mass.

**SIMMONS, JNO. CO., 106 Centre, New
York.** (See adv. index, end of book)

Smith & Anthony Co., 48 Union, Boston, Mass.
Smith's, Benjamin C. Son, 316 Pearl, N. Y.
Speakman Supply & Pipe Co., 113 Market, Wil-
mington, Del.

Standard Sanitary Mfg. Co., Bessemer bldg.,
Pittsburg, Pa.

Standard Sanitary Mfg. Co. of Michigan, 942
Champlain, Detroit, Mich.

Sumner & Goodwin Co., 287 Congress, Boston,
Mass.

Tillinghast, L. H. Supply Co., Providence, R. I.
Vannevar, Edmund B. & Co. (Yacht), 58 Fulton,
Boston, Mass.

Walker Mfg. & Supply Co., 136 W. Larned, De-
troit, Mich.

Walls, Owen & Stambach Co. ("Natuero") 50 N.
7th, Phila., Pa.

Wolff, L. Mfg. Co., 117 W. Lake, Chicago, Ill.
Zero Valve & Brass Mfg. Co., 417 Chicago, Buf-
falo, N. Y.

Water Closet Plunger & Waste Pipe Cleaner

Anson & Pratt, Hastings, Neb.
Climax Specialty Co., Seneca Falls, N. Y.
Lord, L. L. Co. ("Lord"), Meadville, Pa.
Young, Joseph H., 80 High, Boston, Mass.

Water Closet Pulls

(See Pulls, Closet.)

Water Closet Range

(See also Water Closets, School.)

Clow, Jas. B. & Sons (Syphon Jet), 344 Frank-
lin, Chicago

Haines, Jones & Cadbury Co. ("Syphon,"
"Eduction," "Brighton"), Open Range
and Washout), 1136 Ridge av., Phila., Pa.

Illinois Malleable Iron Co., 30 W Monroe, Chi-
cago, Ill.

Lewis & Kitchen, 901 B'way, Kansas City, Mo.
Millar, Chas. & Son Co. (Washout & Syphon),
Utica, N. Y.

Mott, J. L. Iron Works, 118 5th av., New York;
Merchants' Loan & Trust bldg., Chicago, Ill.
& 41 Pearl, Boston, Mass.

Nelson, N. O. Mfg. Co. (Pneumatic Syphon
Hopper Latrines), 424 N 8th, St. Louis, Mo.

Standard Sanitary Mfg. Co. (Automatic Syphon
Jet), Bessemer bldg., Pittsburg, Pa.

Water Closet Seats & Tanks

(See Plumbers' Woodwork.)

Water Closet Trade Names

This list will be furnished upon application
to the S. E. Hendricks Co.

Water Closets (Anti-Freezing)

Hass, Philip, Dayton, O.
Kelly, Thos. & Bro. ("Kelly" Seat Action after
Flush), Congress & 46th av., Chicago, Ill.
Pittsburg Brass Mfg. Co. ("Payne"), Penn av
& 32d, Pittsburg, Pa.
Walls & Pearsall, Ridge av, 11th & Hamilton,
Phila., Pa.
Zero Valve & Brass Mfg. Co., 417 Chicago,
Buffalo, N. Y.

Water Closets (Low-Down Com- bination)

Colwell Lead Co., 63 Centre, N. Y.
Cooper, Wm. S. Brass Works, 437 N 12th,
Phila., Pa.
Dalton-Ingersoll Co., 175 High, Boston, Mass.
Fleck Bros. Co., Phila., Pa.
Fort Pitt Supply Co., 328 2d av., Pittsburg, Pa.
Humphries Mfg. Co. ("Clipper" Syphon Jet &
Syphon Washdown), Mansfield, O.
Ideal Mfg. Co., 546 Franklin, Detroit, Mich.
Kelly, Thos. & Bros., W Congress & S 46th av.,
Chicago, Ill.

Knott-Van Arnham Mfg. Co., Fort Wayne, Ind.
Morrison-Kretschmer Co. ("Morrison" Syphon,
Double Flush), Dubuque, Iowa

National Supply Co., Toledo, O.
Pittsburg Brass Mfg. Co. ("Bak-Push"), 3153
Penn av, Pittsburg, Pa.

Sanitary Mfg. Co., Hamilton, O.

Water Closets (School, Institu- tion, Etc.)

Adee, Fred. & Co., 90 Beekman, N. Y.
Clow, Jas. B. & Sons, 344 Franklin, Chicago,
Ill.
Huber, Henry Co., 244 5th av., N. Y.
Illinois Malleable Iron Co., 30 W Monroe, Chi-
cago, Ill.

Kelly, Thos. & Bros. ("Kelly" Seat Action),
Congress & 46th av., Chicago, Ill.

Kenney Mfg. Co., 36 E 22d, New York
Meyer-Sniffen Co., 5 E 19th, New York

Morrison-Kretschmer Co. ("Morrison" Automat-
ic), Dubuque, Ia.

Mott, J. L. Iron Works, 88 Beekman, N. Y.
Nelson, N. O. Mfg. Co., 424 N 8th, St. Louis,
Mo.

Standard Sanitary Mfg. Co., Bessemer bldg.,
Pittsburg, Pa.

Water Closets (Ship)

Bishop's, Wm. Sons, 205 South, New York
Curtiss Co., 67 Gold, New York
Goblet-Dolan Co., 126 Front, New York
Hodgton Brass Works, 162 High, Boston, Mass.
Keller, A. E., 136 Beekman, New York
Kelly, Thos. & Bro., Congress & 46th av., Chi-
cago, Ill.

McCambridge & Co. (Ltd.) ("Perfecto"), 523
Cherry, Phila., Pa.

Sands, Alfred B. & Son Co., 242 Water, New
York

Water Columns or Stations (Rail- road)

(See also Towers & Tanks, Water; also Cranes,
Locomotive Water.)

American Valve & Meter Co. (Poage's), 1119
Gest, Cincinnati, O.

Best Mfg. Co. (Gulland's Valve & Water
Column), Pittsburg, Pa.

**FAIRBANKS, MORSE & CO., Frank-
lin & Monroe, Chicago, Ill.** (See adv. index
& branch offices, end of book)

Friede Globe Tower Co., 27 William, New York,
N. Y.

Kalamazoo Railway Supply Co., Kalamazoo,
Mich.

Otto Gas Engine Works, 33d & Walnut, Phila.,
Sheffield Car Co., Three Rivers, Mich. Pa.

Thompson, J. & Co., c Van Horn & Sophia,
Phila., Pa.
U. S. Wind Engine & Pump Co., Batavia, Ill.
Vicksburg Mfg. Co., Vicksburg, Mich.

Water Columns (Safety)

American Steam Gauge & Valve Mfg. Co., 208 Camden, Boston, Mass.
 Ashton Valve Co., 271 Franklin, Boston
 Belfield, H. & Co., 435 N Broad, Phila., Pa.
 Berry Engineering Co. ("Berry," "Monograph"), Chester, Pa.
 Bonar, Jas & Co., Frick bldg, Pittsburg, Pa.
 Buckeye Iron & Brass Works, Dayton, O.
 Clark Bros. Co., Vicksburg, Mich.
 Collins Mfg. Co., Bourse bldg, Chicago, Ill.
 Crane Co. (Est. 1855), 519 S Canal, Chicago, Ill.
 (See adv. index & branch offices, end of book)
CROSBY STEAM GAGE & VALVE CO., 97 Oliver, Boston, Mass., & 16 Dey, New York. (See adv. index, end of book)
 Davis, Jno. Co. (Eclipse), 22d & Halsted, Chicago, Ill.
 Griffing, A. A. Iron Co., Jersey City, N. J.
 Illinois Malleable Iron Co., 30 W Monroe, Chicago
 Jarecki Mfg. Co., Erie, Pa., & Pittsburg, Pa.
 Jarvis Engine & Machine Works ("Jarvis, Our Pet"), Lansing, Mich.
 Kelly & Jones Co., 135 Water, Pittsburg, Pa.
 Kitts Mfg. Co., Oswego, N. Y.
 Lawler Water Feed & Damper Regulator Co., 158 Wooster, New York
 Lonergan, J. E. & Co., 211 Race, Phila., Pa.
LUNKENHEIMER CO. ("Vigilant"), Combination, General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)
 Michigan Lubricator Co., Detroit, Mich.
 Murray Automatic Boiler Feed Co., 892 Scotten av, Detroit, Mich.
 Pittsburg Gauge & Supply Co., 309 Water, Pittsburg, Pa.
 Powell, Wm. Co., 2529 Spring Grove av, Cincinnati, O.
 Reliable Water Gauge Co. ("Non-Breakable"), St. Louis, Mo.
 Reliance Gauge Column Co. ("Reliance"), Cleveland, O.
SCHAEFFER & BUDENBERG MFG. Co., Foxboro, Mass. (See adv. index & branch offices, end of book)
 Sims Co., Erie, Pa.
STANDARD GAUGE MFG. CO., Syracuse, N. Y. (See adv. index & branch offices, end of book)
 Steigert, Leopold ("U. S." Water Indicator), Elder & Logan, Cincinnati, O.
 Thomas Brass & Iron Co., Waukegan, Ill.
 Thompson, J. & Co., c Van Horn & Sophia, Phila., Pa.
 Van Auken-Clevane Co. (U. S. Water Indicator), Yonkers, N. Y.
 Western Tube Co. (For House Heating, Boilers, etc.), Kewanee, Ill.
WILLIAMS, D. T. VALVE CO., 904 B'way, Cincinnati, O. (See adv. index, end of book)
 Williams Gauge Co., Pittsburg, Pa. (book)
 Wright Mfg. Co. (The "Wright" Improved), 55-59 W Woodbridge, Detroit, Mich.

Water Feeders

(See Boiler Feeders.)

Water Filters

(See Filters, Water)

Water Gates

(See Valves, Gate, for Water Mains.)

Water Gauges

American Steam Gauge & Valve Mfg. Co., 208 Camden, Boston, Mass.
ASHCROFT MFG. CO., THE (Pressure Self-Closing "Keyser" Automatic), 85, 87 & 89 Liberty, N. Y. Works, Bridgeport, Conn. (See adv. index, end of book)
 Ashton Valve Co., 271 Franklin, Boston, Mass.
 Belfield, H. & Co., 435 N Broad, Phila., Pa.
BRISTOL CO. ("Bristol's" Water Level), Waterbury, Conn., & 114 Liberty, New York. (See adv. index & branch offices, end of book)
 Buckeye Iron & Brass Works, Dayton, O.
 Cleveland Steam Gauge Co., 1619 Merwin, N W, Cleveland, O.
 Crane Co. (Est. 1855), 519 S Canal, Chicago, Ill.
 (See adv. index & branch offices, end of book)
CROSBY STEAM GAGE & VALVE CO., 97 Oliver, Boston, Mass. (See adv. index & branch offices, end of book)
 Detroit Lubricator Co., Detroit, Mich.
 Farnan Brass Works (Safety), Cleveland, O.
 Gregory, G. M., 214 Front, New York
 Haydenville Co., Haydenville, Mass.
 Huyette, Paul B. Co. (The "P. B. H." Quick Closing), Betz bldg., Philadelphia, Pa.
 Jarecki Mfg. Co., Erie, Pa., & Pittsburg, Pa.
 Jerguson Mfg. Co. ("Reflex"), 221 Columbus av, Boston, Mass.
 Kelly & Jones Co., 135 Water, Pittsburg, Pa.
 Lonergan, J. E. & Co. (Automatic Safety), 211 Race, Phila., Pa.
LUNKENHEIMER CO. ("Monitor"), Automatic & Plain, General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index, end of book)
 McNab & Harlin Mfg. Co., 56 John, New York, & Paterson, N. J.
 McRae & Roberts Co., 227 Campbell av, Detroit, Mich.
 Michigan Lubricator Co. ("Michigan," Self-Clearing, Automatic, etc.), Detroit, Mich.
 Nelson, Charles, 439 E 10th, N. Y.
 Nolte Brass Co., Springfield, O.
 Ohio Brass Co., Mansfield, O.
PENBERTHY INJECTOR CO. (Automatic & Self-Casting, Round Body), 346 Holden av, Detroit, Mich. (See adv. index, end of book)
 Pittsburg Gage & Supply Co. (Self-Closing), 309 Water, Pittsburg, Pa.
 Powell, Wm. Co., 2525 Spring Grove av, Cincinnati, O.
 Pratt & Cady Co., 556 Capitol av, Hartford, Ct.
 Queen City Brass & Iron Works, Cincinnati, O.
 Reliable Water Gauge Co. ("Non-Breakable"), 1615 Pine, St. Louis, Mo.
 Reliance Gauge Column Co. (Reliance Lever, Quick Closing), 76 E Prospect, Cleveland, O.
 Roberts Brass Mfg. Co., 1409 Fort st., Detroit, Mich.
SCHAEFFER & BUDENBERG MFG. Co., Foxboro, Mass. (See adv. index & branch offices, end of book)
 Scott Valve Co., 231 W Randolph, Chicago, Ill.
 Sherwood Mfg. Co., Buffalo, N. Y.
STANDARD GAUGE MFG. CO., Syracuse, N. Y. (See adv. index & branch offices, end of book)
 Star Brass Mfg. Co., 103 E. Dedham, Boston, Mass.
 Swift Lubricator Co., Elmira, N. Y.

Thomas Brass & Iron Co., Waukegan, Ill.
 Van Duzen E. W. Co., 428 E 2d, Cincinnati, O.
 Western Valve Co., 43 W Randolph, Chicago, Ill.
 Williams Gauge Co. (Quick Closing), Pittsburg, Pa.
 Wright Mfg. Co. (The Wright, Water Pressure, Self-Closing), 55-59 Woodbridge, Detroit, Mich.

Water Heaters

(See Heaters, Water.)

Water Lifts (Automatic)

(See Lifts, Water)

Water Motors

(See Motors, Water.)

*Waterproofing Cloth

LEHON CO., W 43d & Lincoln, Chicago, Ill. (See adv. index, end of book)

Waterproofing Compounds

Sandusky Portland Cement Co. ("Medusa"), Sandusky, O.

Waterproofing Materials

CABOT, SAM'L. (Brick, Stone & Cement), 141 Milk, Boston, Mass. (See adv. index & branch offices, end of book)
 Hydrex Felt & Engineering Co., 120 Liberty, New York
 Viscol Co., 1st st, East Cambridge, Boston, Mass.

Waterproofing of Floors, Etc.

Hausling, F. M. Co. ("Anti-Hydro" Cement), 403 W 59th, New York
 Hydrex Felt & Engineering Co., 120 Liberty, New York
 Neuchatel Asphalt Co. (Ltd.), 265 B'way, New York
 Sandusky Portland Cement Co. ("Medusa"), Sandusky, O.
 Union Construction & Waterproofing Co., 1133 B'way, New York City
 Waterproofing Co. (For Cellar, Subways, Reservoirs, Tunnels, etc.), 151 W. 28th, New York
 Winslow, E. J. Co. (Inc.), (Hydrolithic System), Western Union bldg, Chicago, Ill.

*Water Purifying Compounds

STRAUS & CO., 55 Broad, New York. (See adv. below)



TO OUR ADVERTISERS AND SUBSCRIBERS.

At any time during the year, that you do not find classified in our book the names and addresses of the Manufacturers of any ARTICLE you are in the market to PURCHASE, please write us, giving as complete particulars as possible, and we will always endeavor to render you PROMPT SERVICE in furnishing you the names and addresses of such Manufacturers and without any cost or obligation. This does not include Mailing Lists.

S. E. HENDRICKS CO.

Water Softening & Purifying Apparatus

American Water Softener Co. ("Brunn-Loewner"), Mutual Life bldg., Phila., Pa.
DODGE MFG. CO., Mishawaka, Ind.
 (See adv. on following page; branch offices, end of book)
 Greer Filter Co., Perry bldg., Phila., Pa.
 Kennicott Water Softener Co., Railway Exchange, Chicago, Ill.
NEW YORK CONTINENTAL JEWELL
 Filtration Co., 15 Broad, N. Y., & 167 Dearborn, Quincy, Ill. (See adv. index, end of book)
 Patterson, D. W. & R. P., 1502 Market, Phila., Pa.
PITTSBURG FILTER MFG. CO.,
 Farmers' Bank bldg., Pittsburg, Pa. (See adv. index, end of book)
 Reisert, Hans, Co., Ltd. (American Branch), 132 Nassau, New York
SCAIFE, WM. B. & SONS CO., 221 1st
 av., Pittsburg, Pa. (See adv. below)
 United States Wind Engine & Pump Co., Batavia, Ill.
 Tweeddale Water Softening Co., 6459 Ingle-side, Chicago, Ill.
 Turl's, Jno. Sons (Inc.), 26 Cortlandt, New York. Works, Newburgh, N. Y.

Water Stations (Railroad)

(See Water Columns or Stations, Railroad)

Water Supply (Air Pressure)

(See Lifts, Air, also Pneumatic Water Supply Systems.)

*Water Supply Systems (Pneumatic)

KEWANEE WATER SUPPLY CO.,
 Kewanee, Ill. (See adv. index, end of book)

Water Towers (Fire Boat)

Woodhouse Mfg. Co. ("Woodhouse"), 50 W B'way, New York

Water Wheels

(See also Water Turbine Wheels)

Blymer Iron Works Co. (Overshot), Spring Grove & Terrace pl., Cincinnati, O.
 Cassell Automatic Water Motor Co., Seattle, Wash.
 Doble, Abner Co. (Taugential), 200 Fremont, San Francisco, Cal.
 Fitz Water Wheel Co., Hanover, Pa.
 Knicht & Co. (100 to 2,500 h. p.), Sutter Creek, Calif.
 Leffel, Jas. & Co., Springfield, O.
 Pelton Water Wheel Co. (Also Direct Connected), 19th & Harrison, San Francisco, Cal., & 90 West, New York
 Mine & Smeiter Supply Co., Denver, Colo.
 United Iron Works ("Tuthill"), 32 Fremont, San Francisco, Cal.

*Waterworks (Air Pressure)

KEWANEE WATER SUPPLY CO.,
 Kewanee, Ill. (See adv. index, end of book)

*Waterworks (Private)

KEWANEE WATER SUPPLY CO.,
 Kewanee, Ill. (See adv. index, end of book)

Wattmeters

Akron Electrical Mfg. Co. (The Packard Recording), Akron, O.
BRISTOL CO. ("Bristol" Recording),
 Waterbury, Conn., & 114 Liberty, New York.
 (See adv. index & branch offices, end of book)
 Central Laboratory Supply Co. ("Vawter" Recording), La Fayette, Ind.
 Diamond Meter Co. (Schaefer Recording), Peoria, Ill.

Duncan Electric Mfg. Co. (Direct Intergrating & Alternating Induction), Lafayette, Ind.
 Du Vivier, Ernest H. (Recording, Imported), 14 Church, New York
 Fort Wayne Electric Works (Induction)

GENERAL ELECTRIC CO., Schenectady, N. Y., & 44 Broad, New York. (See adv. index & branch offices, end of book)
 Hachade & Roller, 203 B'way, New York.
 Helios Mfg. Co., (Direct Current), Bridesburg, Philadelphia, Pa.

Jewell Electrical Instrument Co. ("Jewell" Dead-Beat Portable & Switchboard Type), 61 Union Pk., Chicago, Ill.

Keystone Electrical Instrument Co., 9th & Montgomery ave., Phila., Pa.

Sangamo Electric Co. (Alternating Current Only), Springfield, Ill.

Stanley Instrument Co. (Alternating Current only), Great Barrington, Mass.

Wagner Electric Mfg. Co., 2015 Locust, St. Louis, Mo.

WESTINGHOUSE ELECTRIC & MFG. Co., Pittsburg, Pa. ("Westinghouse" Portable Lamp Testing Volt-Wattmeter, etc.) (See adv. index & branch offices, end of book)

Weston Electrical Instrument Co., Waverly Park, Newark, N. J.

Whitney Electrical Instrument Co., Penacook, N. H.

*Wattmeters (Prepayment, Recording)

GENERAL ELECTRIC CO., Schenectady, N. Y., & 44 Broad, New York. (See index & branch offices, end of book)

Wax Mfrs. (Cabinet)

Bowdlear, W. H. & Co. (Waxes from all countries), 149 Pearl, Boston

Brown, D. P. & Co., 262 N 4th, Phila., Pa.

Stevenson Bros. & Co., 132 S 2d, Phila., Pa.

Stevenson, Oliver K., 15 N Front, Phila., Pa.

Walton, F. S. & Co., 136 S Front, Phila., Pa.

IF YOUR WATER SUPPLY

does not meet your requirements, either for
 Steam Boilers or for your various manufacturing processes, write us in reference to the

WE-FU-GO and SCAIFE

Water Softening and Purifying Systems

WM. B. SCAIFE & SONS COMPANY,

FOUNDED 1802

PITTSBURGH, PA.

Wax (Paraffine)

Indian Refining Co., Georgetown, Ky.
Penna. Paraffine Works., Titusville, Pa.
Waverly Oil Works, 54th & A. V. R. R., Pittsburg, Pa.

Wax (Sealing)

Apel, Herman, Milwaukee, Wis.
Bowdlear, W. H. & Co., 220 Devonshire, Boston, Mass.
British-American Sealing Wax Co., Cincinnati, Ohio
Chamberlin & Johnson, Allegheny, Pa.
Dennison Mfg. Co., 26 Franklin, Boston, Mass.
Dicks & Wiggin ("Zubian," "Pontius Pure" for Fruit Jars, etc.), Dayton, O.
Harrison Mfg. Co., Rahway, N. J.
Hoyt Metal Co., 4th & Locust, St. Louis, Mo., & Perth Amboy, N. J.
Pontius, Geo. A., Columbus City, Ind.
Propfe, August, 1409 Vine, Phila., Pa.
Stanford Mfg. Co. Chicago Ill.
Stafford Novelty Co., 603 Wash'n, New York
Zinsser, Wm. & Co., 197 William, New York

Wax Tapers

Cathedral Candle Co., Syracuse, N. Y.
Marty, F. & Co., Syracuse, N. Y.
Will & Baumer Co., Syracuse, N. Y.

Weaners (Calf)

Barbee Wire & Iron Works (Wire), 44 Dearborn, Chicago, Ill., & Lafayette, Ind.
Carroll Muzzle Co., Carroll, Ill.
Cooley Mfg. Co., Chicago, Ill.
Pratt, Wm. E. Mfg. Co. ("Tylers"), 91 Lake, Chicago, Ill.
Quinn Wire & Iron Works, Scranton, Ia.

Weather Strips

American Weather Strip Co., 70 Warren, New York
Anderson, Wm. G., Sudbury bldg, Boston, Mass.
Bosley, D. W. Co., 303 Fulton, Chicago, Ill.
Bradstreet Weather Strip Co., 422 Sutton, San Francisco, Cal.
Russell Mfg. Co., Middletown, Conn.
Brown, A. B. Co., 31 W 24th, New York
Carpenter, F. E. Co., 9 Warren, New York, N. Y.
Chamberlin Metal Weather Strip Co. (Metallic), 4th & Fort, Detroit, Mich.
Church, E. I. & Co. (Axle, All Steel), West Hanover, Mass.
Dunfee, J. & Co., 59 N Claremont av, Chicago, Ill.
Economy Weather Strip Co. ("Economy," Spring Metal), Detroit, Mich.
Golden Metal Weather Strip Co. (Metal), Allegheny, Pa.
Harsha, L. R. Mfg. Co., 793 Carroll av, Chicago, Ill.
Heaton & Wood, 1706 Chestnut, Philadelphia, Pa.
Introstyle & Novelty Mfg. Co. (Metal O. K.), Marietta, O.
King Mfg. Co. ("King's" Automatic), Newton, Ia.
Mann, E., 11 Province ct, Boston, Mass.
May & Freeman (Invisible), 178 Devonshire, Boston, Mass.
Metal Plated Car & Lumber Co. (for cars only), 170 B'way, New York, N. Y.
Mineralized Rubber Co., 18 Cliff, New York
Motley, Peter (Rubber), 750 S Broad, Phila., Pa.
N. Y. Weather Strip Co., 137 W 23d, New York
Novelty Iron Co., Canton, O.
Oakley, Charles, 140 Dearborn, Chicago, Ill.
Osgood, H. H. & Co., 4 Charlestown, Boston, Mass.
Patent Metal Weather Strip Co., 133 W. 23d, New York
Pfleger Mfg. Co., 958 N Spaulding av, Chicago, Ill.

Prince, W. O., 26 Edinboro, Boston, Mass.
Protective Ventilator Co. 129 Fulton, New York
Reeves Mfg. Co. (Automatic), New Haven, Conn.
Roebeck Weather Strip & Wire Screen Co., 207 B'way, New York
Roehrig & Jacoby Wall Paper & Carpet Co., 13th & Franklin av, St. Louis, Mo.
Schouler, W. W. (Weather Strip & Sliding Door Guide), 45 Clinton, Newark, N. J.
SOLOMON, M., FLY SCREEN CO., (Solid Metal Interlocking) cor. Bayard & Nanticoke, Baltimore, Md. (See adv. index, end of book)
Stanfield & Christie, 142 E 4th, Cincinnati, O.
TABOR SASH CO. ("Tabors" Metallic), 69 Polk, Newark, N. J. (See adv. index & branch offices, end of book)
Teackle & Golden (The Golden Metal), 15 Gelman, Detroit, Mich.
Union Novelty Works (Felt Cushion Edge), Putnam, Conn.
Window Swinging Co. (Metal), Hale bldg, Phila., Pa.
Young Supply Co. (May's Invisible), 237 Broadway, New York

Weather Vanes

AMOS, CHARLES CO., 94 W Larned, Detroit, Mich. (See adv. index, end of book)
Barbee Wire & Iron Works, 44 Dearborn, Chicago, Ill., & Lafayette, Ind.
Barnum, E. T. Wire & Iron Works, Detroit, Mich.
Broad Gauge Iron Works, 53 Elm, Boston, Mass.
CANTON ART METAL CO., Canton, O. (See adv. index, end of book)
EDWARDS MFG. CO., Eggleston av & 4th & 5th, Cincinnati, O. (See adv. index & branch offices, end of book)
ELLER MFG. CO., Canton, O. (See adv. index, end of book)
Fiske, J. W. Iron Works, 39 Park pl, New York
Roy, Edw. A. & Co., 409 E 8th, Cincinnati, O.
Gerock Bros. Mfg. Co., 1252 Manchester av, St. Louis, Mo.
Goodwin, Frederick O., 53d & Wyalusing, Philadelphia, Pa.
Henis, Wm. G., 1347 Ridge av, Phila., Pa.
Hum & Leatherman, Pittsburg, Pa.
Jackson & Cooke, 318 Market, Phila, Pa.
Jones, T. W., 22 Burling st, New York
Kansas City Wire & Iron Works, Kansas City, Mo.
Mott, J. L. Iron Works, 118 5th av, New York
MULLINS, W. H. CO., Salem, O. (See adv. index, end of book)
NATIONAL CABLE & MFG. CO. ("National"), Niles Mich. (See adv. index & branch offices, end of book)
Sheet Metal & Supply Co., Lancaster, Pa.
SMITH, F. P. WIRE & IRON WORKS, 100 LaLke, Chicago, Ill. (See adv. index, end of book)
SNOW, W. A. IRON WORKS (Copper), 19 Portland, Boston, Mass.
TAYLOR & DEAN, 205 Market, Pittsburg, Pa. (See adv. index, end of book)
Van Dorn Iron Works Co., 1793 E Madison av, Cleveland, O.
Washbourne, Edw. G. & Co., 46 Cortlandt, New York
Westervelt, A. B. & W. T., 102 Chambers, New York

Webbing (Cotton)

Buffalo Weaving & Belting Co. (Belting, Hatters, Girth, Bridles, Back Bands, Trunk Straps, etc.), Buffalo, N. Y.
Consolidated Cotton Duck Co. (Back Band, etc.), Baltimore, Md.
Empire Mfg. Co., Lockport, N. Y.
Fletcher Mfg. Co., Providence, R. I.
Hope Webbing Co. (Narrow Woven Fabrics), Pawtucket, R. I.
Vogt Mfg. & Coach Lace Co., Rochester, N. Y.

***Wedge Lead**

HARRISON SUPPLY CO. (for Stone Trade), 5 & 7 Dorchester av Extension, Boston, Mass. (See adv. index, end of book)

Wedges (Steel)

ANDERSON, W. H. TOOL & SUPPLY Co., 14 Macomb, Detroit, Mich. (See adv. index, end of book)
Atha Tool Co., ft Chapel, Newark, N. J.
Beall Bros., Inc., Alton, Ill.
Collins Co., Collinsville, Conn.
Evansville Tool Works (Coal, Wood Choppers, Falling Stone, etc.), Evansville, Ind.
Falls Mfg. Co. (Splitting), San Francisco, Cal.
Findlay Axe & Tool Co. (Also Iron), Findlay, O.
Fulton Tool Works, Canal Fulton, O.
Hardsocg, Martin Co., Allegheny, Pa.
Harvey, H. H. (Steel for Quarry Work and Woodman), 606 Atlantic av, Boston, Mass.
Hubbard & Co., Pittsburg, Pa.
Iron City Tool Works, 32d & Smallman, Pittsburg, Pa.
Klein-Logan Co., S 13th & Breed, Pittsburg, Pa.
McInnes Steel Co., Corry, Pa.
Pittsburg Tool & Drop Forge Co. ("Cheswick," Miners', etc.) Works, Cheswick, Pa.
Plumb, Fayette R. (Inc.), Tucker & P. R. R., Fkd., Phila., Pa.
Standard Axe & Tool Works (Sidelink Saw), Ridgeway, Pa.
Trow & Holden (for Quarry Work), Barre, Vt.
Warwood Tool Co., Wheeling, W. Va.
Woodruff, Walter W. & Sons Co. (Axe), Mt. Carmel, Conn.

Wedges (Treenail)

Buena Vista Hardwood Co., Buena Vista, Va.
CARPENTER, GEO. B. & CO., 202 S Water, Chicago, Ill. (See adv. index, end of book)
Hoskins, J. S. Lumber Co. (Locust), Baltimore, Md.
Palmer, Robert & Son, Ship bldg & Marine Ry. Co., Noank, Conn.
United States Bung Mfg. Co., 50 S 2d, Brooklyn, N. Y. Factory, Cincinnati, O.

Weeders

American Drill Co., Springfield, O.
Aspinwall Mfg. Co., Jackson, Mich.
Bement's, E. Sons (Steel Frame, Spring Teeth, Adjustable Handle & Shaft), Lansing, Mich.
Champion Weeder Co., Friedens, Pa.
Dunham, J. W. & Son, Berea, O.
Eureka Mower Co., Utica, N. Y.
Fanning, Edgar Weeder Co., Calverton, N. Y.
Fuller & Johnson Mfg. Co., Madison, Wis.
Greenville Implement Co., Greenville, Mich.
Hallock Weeder Co. (Anti-Clog), York, Pa.
Janesville Machine Co., Janesville, Wis.
Keystone Farm Machine Co. (Straight Bar or Adjustable, Walking or Sulky), York, Pa.
Lovejoy, H. H. & Son, Cambridge, N. Y.
Munnsville Plow Co., Munnsville, N. Y.
National Drill Co., Cambridge, Ind.
Patten & Stafford Co., Canastota, N. Y.
Standard Harrow Co., Utica, N. Y.
Toledo Plow Co., Toledo, O.
Wiard Plow Co. (Adjustable), Batavia, N. Y.

Weeders (Garden)

Allen, S. L. & Co. (Firefly & Farmer), 110 Market, Phila., Pa.
Bateman Mfg. Co. (Iron Age), Granloch, N. J.
Brown, Hinman & Huntington Co. (Columbus Hand), Columbus, O.
Clark, W. J. Co. (Rapid-Easy), Salem, O.
Continental Tool Co. (Hand), Frankfort, N. Y.
Donaldson Bros. (Beet), Mt. Clemens, Mich.
Fuller Mfg. Co. (Daisy Hand), Danvers, Mass.

THE EUREKA WATER SOFTENER AND PURIFIER

Supplies pure, soft water for boiler feeding and all industrial purposes.
Automatic, continuous, simple, compact. No extra labor required for operation.
Write for information to

DODGE MANUFACTURING CO, MISHAWAKA, IND.

Jelliff, C. O. Mfg. Corp. (Universal), Southport, Conn.
Keystone Farm Machine Co. (Adjustable), York, Pa.
Strube, C. H. ("Climax"), Sandusky, O.
Wallingford Mfg. Co., Wallingford, Vt.

Weighers, Loaders & Baggers (Grain)

Advance Thresher Co., Battle Creek, Mich.
American Mfg. Co., Racine, Wis.
Buffalo Pitts Co. ("Niagara" Short Elevator & Bagger), Buffalo, N. Y.
Case, J. I. Threshing Machine Co. (Weighers), Racine, Wis.
Climax Machinery Co. ("Avalanche," pneumatic; "Star," centrifugal; "Climax," drag; Grain Elevating & Handling), Indianapolis, Ind.
Gaar, Scott Co. (Weighers & Baggers), Richmond, Ind.
Gelser Mfg. Co. (Weighers & Baggers), Wyaneshoro, Pa.
Hart Grain Weigher Co. (Weighers), Peoria, Ill.
Huher Mfg. Co., Marion, O.
Hydraulic Press Mfg. Co., Mt. Gilead, O.
Marlon Mfg. Co., Marion, O.
Minneapolis Threshing Machine Co. (Baggers), Minneapolis, Minn.
Nichols & Shepard Co. (Weighers, Baggers & Loaders), Battle Creek, Mich.
Northwest Thresher Co., Stillwater, Minn.
Port Huron Engine & Thresher Co., Port Huron, Mich.
Reeves & Co. (Weighers), Columbus, Ind.
Robinson & Co. (Weighers), Richmond, Ind.
Steele, Ben Weigher Co., Peoria, Ill.
Stevens, A. W. Co., Marinette, Wis.
Westinghouse Co. (Weighers), Schenectady, N. Y.
Willias Mfg. Co., Decatur, Ill.

Weighing Machines (Automatic)

(See Machinery.)

Weights (Counter)

King & Andrews Co. (Cast Iron), Chicago Heights, Ill.

Weights (Elevator)

Canton Foundry & Machine Co., Canton, O.
Central Foundry Co., Fort Wayne, Ind.
Cornell, J. B. & J. M., 26th & 11th av, New York
King & Andrews Co., Chicago Heights, Ill.
Kinks County Iron Foundry, N 13th & Berry, Brooklyn, N. Y.
Koch & Fox, 22d & Glenwood av, Phila., Pa.

Weights (Hitching)

Barber Mfg. Co., Ashtabula, O.
CANTON FOUNDRY & MACHINE CO., Canton, O. (See adv. index, end of book)
Cheney, S. & Son, Manlius, N. Y.
Donaldson Bros., Mt. Clemens, Mich.
Forest City Foundry & Mfg. Co., Cleveland, O.
Gowanda Agricultural Wks., Gowanda, N. Y.
Koch & Fox (Hitching Blocks), 22d & Glenwood av, Phila., Pa.
Sandage Steel Skeln Co., South Bend, Ind.
Weller Hardware & Foundry Co., Horesheads, N. Y.
Western Foundry & Sash Weight Co., 159 Miller, St. Louis, Mo.

*Welding (Autogenous)

WORCESTER PRESSED STEEL CO., Worcester, Mass. (See adv. index, end of book)

Welding (Electric)

American Electric Welding Co., 40 W. 13th, New York
American Tube & Stamping Co., Bridgeport, Conn.
ELECTRIC WELDING CO., 4 Smithfield, Pittsburg, Pa. (See adv. index, end of book)
Lorain Steel Co. (Street Railway Track), Johnstown, Pa.
Newton Steel Wheel Co. (Rings, Wheel Rims, etc.), Kalamazoo, Mich.

Standard Welding Co. (Iron & Steel, Thomson Pressed), Cleveland, O.
Thomson Electric Welding Co., Lynn, Mass.
Welded Steel Barrel Corp., Leih c Franklin, Detroit, Mich.

Welding (Falk Process)

Falk Mfg. Co., Milwaukee, Wis.

Welding (Steam Flue)

Fix's, S. Sons, Leonard c Winter, Cleveland, O.

Well Contractors (Artesian & Driven)

CALIFORNIA.

SAN FRANCISCO—Allingham, Wm. J., 1523 Haley, W. H., 324 Pine
Lowe, Julius W., 126 Kearny
Ray, Michl., 135 A, 6th
Rogers, Josiah B., 1222 Mission

COLORADO.

DENVER—Koogle, A. C., 1455 Wazee

CONNECTICUT.

BRIDGEPORT—Bridgeport Artesian Well Co., GROTON—Hempstead, G. R., 1556 Park av
HAMDEN—Bassett, L. L.
HARTFORD—Clark, Eugene R., 49 Oak
Grant, C. L., 58 Belden
Hammond & Mullen, 120 Sargeant
King, H. B., 221 Garden
MIDDLETOWN—Murray, A. A. & Son
NEW LONDON—Bennett, Jno. F.
SEYMOUR—Church, Stephen B.
STRATFORD—Roberts, E. B.

DISTRICT OF COLUMBIA.

WASHINGTON—Adams, C. C., 1524 Norris, n e
Conley, Jno. A., 100 N, s e
Dewitt, Wm. E., Atlantic hldg
Dorsey, Chas. M., 622 12th, n e
Stratford, R. H., 318 Wash'n, Anacostia

GEORGIA.

ATLANTA—Cotton States Belting & Supply Co., 9 S Broad

ILLINOIS.

AURORA—AMERICAN WELL WORKS. (See adv. index, end of hook)
BELLEVILLE—Belleville Deep-Well Water Co.
CHICAGO—AMERICAN WELL WORKS. 1st Nat'l Bank hldg. (See adv. index, end of hook)
Cater & Needham, 688 W Jackson houl
Davis, Jno. R., 2488 W Kinzie
Gelger, S. B., 303 Dearborn
Gray, W. H. & Bro., 29 Illinois
Linde, Albert R., 2739 N Harding av
Miller, J. P. Artesian Well Co., 39 Michigan
Needham Water Works Co., 66 W Lake
Siegert, Gottloh T., 1350 W 97th pl
Swalley, Frank S., 31 Bryan pl
Wilson, Howark K., 762 W 12th
Wilson, Levi & Co., 225 Dearborn

ELGIN—Matters, Thos. P.
HAMPSHIRE—Calkins, Wm.
Gustafson, F. E.
HARMON—Brill & Connor
HARVARD—Roach, M. D.
JOLIET—Falke, Wm.
KANKAKEE—Smith, C. W.
LAMOILLE—Risdon, O. D.
LENA—Inman, O. A.
MAKENGU—Bright, Thos. (Driven Wells)
MELVIN—Phillips, Geo.
MORRIS—Van Asdlen, Wm.
PEORIA—McQuellon & Schore
ROCKFORD—Levahn, W. P.

INDIANA.

ELKHART—Stutzman, Rinard
ELWOOD—Echolson Bros.
EVANSVILLE—Grote Mfg. Co.
FORT WAYNE—Spice, Roht., 48 W. Main

INDIANAPOLIS—Bishop, Louis, 723 N New Jersey

Brant, Chas. P. (Gas), 3321 N Meridian
Buttz, Frank C., 301 N Capitol av
Clark, Hy. H., 1534 Martindale av
Gilchrist, Jas. T. (Gas), 601 Woodlawn av
Krauss, Chas., 127 E Ohio
Zeisler, Wm., 1114 W Ray
LOGANSPOUT—Hayworth, Wm. H.
Linton & Graf
VALPARAISO—Beach, M. J.

IOWA.

DES MOINES—Marsh, Peter
DUBUQUE—Gihhs, Chas.
VILLISCA—Mackley & Parke

KANSAS.

IOLA—Horton, F. J.
McPHERSON—Rask, P. W.

KENTUCKY.

LOUISVILLE—Anderson, Jas., 514 2d
Beechum, Geo. H., 220 35th
Bridges, John Cons. Co., 1312 Preston

LOUISIANA.

JENNINGS—Louisiana Machine & Well Co.

MAINE.

PORTLAND—Trask, Wilbur F., 10 Hersey

MARYLAND.

BALTIMORE—Balto. Artesian Well Co., 1531 Friendsbury pl
Brack, Christian, Jr., 1820 E Eager
Della, Andw. J., 2 St. Paul
Downin Artesian Well & Construction Co., 26 E Fayette
Downing, C. W., 529 Roland av
O'Donovan, E. C., 118 W 24th, n

MASSACHUSETTS.

ARLINGTON—Johnson, Geo. H.
BOSTON—Basford, F. A., 236 Congress
Church, Stephen B., High St
Clark, Edw. A., 170 Summer
Coates, H. S. & Co., 209 Wash'n
Feeley, Jas. D., 43 S Market
Healy Sewer Machine & Construction Co., 15 Beacon, Boston, Mass.
Morton & Waugh, 17 Federal
Smith, B. F. & Bro., 38 Oliver
Smith & Thayer Co., 236 Congress
EAST LONG MEADOW—Champlin, F. A.
FALL RIVER—Hopkins, Wm. I., 13 Rock
LYNN—Hamilton, S. B., 544 Summer
Quinn, M. L. & Co., 21 State
NORTH CHELMSFORD—Crockett, H. O.
SHERBORN—McFarland, Fred (Drilled or Driven)

WORCESTER—Allen, D. W., 518 Main
Carrick, G. W., 20 Hancock
Patterson, G. W., 79 Locust av
Tompkins, H. M. & Son, 9 Gardner

MICHIGAN.

BAY CITY—Coryell Drilling Co.
BEULAH—Snell & Denson
KALAMAZOO—Kalamazoo Tubular Well Co. (A. R. Trowbridge, Prop.)
MILFORD—Kenney, A. B.

MINNESOTA.

LEWISTON—Greer & Peters
MABEL—Onsgard, G. & T.
MAZEPPA—Bright, A. F.
MINNEAPOLIS—Johnson, Chris., 2221 N Penn
McCarthy, Jno. F., 209 Central av
Moore, J. A., 2828 18th av, S
Swenson, S., 256 Plymouth av
OWATONNA—Abernethy Bros.
Stewart, F. H.
ST. PAUL—Affolter & Salverda, 1134 Rice
Carey, A. J., 223 Concord
Hoffman, John, 1086 Hazzard av
Keys, G. W., 413 N Lexington av
St. Paul Well Co., 503 Bradley
Salverda, H. C., 1325 N St. Alhans

MISSOURI.

CENTRALIA—Bowman, A. D.
 JOPLIN—**AMERICAN WELL WORKS.**
 (See adv. index, end of book)
 KANSAS CITY—Brinton Pump & Plumbing Co.,
 555 Walnut

Brockett, C. A. Cement Co., 121 W 8th
 Chase, O. L. Mercantile Co., 1423 W 9th
 Daly, H. G., 121 W 8th
 Dempster Mill Mfg. Co., 1322 N 11th
 Harsha, J. D., 1404 Eastern
 Newton & Adams, 3112 E 18th
 Pryor, W. S., 612 E 8th
 Wilson, D. & Co., 1332 Grand av
 Wright, C. A., 4109 Cherry
 ST. LOUIS—Anshutz & Wise, 2544 N Grand av
 Brant, C. P. & Co., Houser bldg
 Carter Artesian Well Co., 211 N 7th
 Cook Well Co., 15 S 4th
 Creely, Geo., 3523 N 25th
 National Well Drilling Co., 2856 Benton
 Steinsick, H. W., 4321 Prairie av

NEW HAMPSHIRE.

PORTSMOUTH—Paul, W. E.

NEW JERSEY.

BLOOMFIELD—Hetzel, Fred
 CAMDEN—Barr, W. C., 722 S 4th
 FLEMINGTON—Stothoff Bros.
 NEWARK—Conlan, P. H. & J., 253 Lafayette
 Connolly, A. J., 100 S 10th
 Dean, Geo. D., 256 N 7th
 Lynch, Owen, 43 S 8th
 Smith, J. J., 49 Littleton av
 RED BANK—Matthews Bros.

NEW YORK.

FORKS—Stock, Jno. H. & Son
 GERMANTOWN—Germantown Artesian Well Co.
 MONTICELLO—Selleck, Jno.

NEW YORK CITY.**Borough of Brooklyn.**

BROOKLYN—Bushman, Jos. W., E Parkway n
 Utica av

Boroughs of Manhattan & Bronx

NEW YORK—**AMERICAN WELL**
 Works, 2 Stone. (See adv. index, end of
 book)
 Carter, Ralph B., 26 Cortlandt
 Cole Bros., 108 Fulton
 Ford, Isaac H., 104 Fulton
 Gregory, Elisha, 123 Liberty
 Heerdegen, Jno., 44 B'way
 Hudson Engineering & Contracting Co., 92
 William
 Manhattan Hydraulic Co., 25 John
 Miller, F. W., 104 Centre
 Phillips & Worthington, 136 Liberty
 Pierce Well Engineering & Supply Co., 90
 West
 STAR DRILLING MACHINE CO.
 (Isaac H. Ford, Eastern Manager), 104
 Fulton. (See adv. index, end of book)

Borough of Queens.

EVERGREEN—Zeller, Jno.
 LONG ISLAND CITY—Allen, Samuel H., 513
 Sweeney & Gray, 81 6th B'way

Borough of Richmond.

STAPLETON—Lockwood & Co.
 (END OF NEW YORK CITY)
 ROCHESTER—Westfall, Wm. S., 16 Third
 Wright, Frank W., Campbell pl, Lyell av
 SCOTTSVILLE—Jenkins, E. A.
 STANLEY—Booth, F. A. Co.
 STONY BROOK—Rogers, T. B.
 SYRACUSE—Cadin, Martin, 210 W Division
 WHITE PLAINS—Randall, J. W.

OHIO.

AKRON—Star Drilling Machine Co.
 CINCINNATI—Hendrigsman, Wm., & Co.,
 2937 Colerain av
 McGowan, Jno. H. Co., 56 Central av

CLEVELAND—Duff Bros., Williamson bldg
 Turk, D. W., 43 Claasen
 COLUMBUS—Douglass, G. W., 519 E. Starr av
 Neuner, Chris, 873 Mohawk
 Rhyar Pump & Well Co.
 Rockey, D. R. & Son, 275 E Main
 Still & Baker, 891 N. High
 DAYTON—Teeter, Jno. K., Salem Pike
 Teeter, Jno. K., Salem Pike
 Webbert, Chas., 1121 W 3d
 Wheatley, H. D. Co., 32 W Franklin
 MASSILLON—Christman Co.
 SPRINGFIELD—Ballentine, H. M., 140 W Main
 Evilsizer, S. A., 90 W Main
 Messer, Jacob A., 52 W Main
 TOLEDO—Banting Machine & Supply Co., 116
 Superior
 Philipps, Henry Seed & Implement Co., 115
 St. Clair

OREGON.

PORTLAND—Clifford, Saml., 346 Eugene
 Rider, W. A., 469 E Burnside

PENNSYLVANIA.

ALLEGHENY—Allen, J. M., 28 Ellis av
 BEAVER FALLS—Downie & Eyer
 BERWYN—Leamy, Frank W.
 CANONSBURG—Crane, D. W.
 DELTA—Sidwell, C. W.
 HAMORTON—Waterman Bros.
 JEANNETTE—Kappenberger, G. W.
 JENKINTOWN—Harper, Thos. B.
 MYERSTOWN—Myers Bros.
 NORTH WALES—Schrawder, David N.
 PHILADELPHIA—Andrews, Perry, 15 Porter pl
 Dietz, Christian, Front c Luray
 Flaghouse & Beeson, 1548 Ruan, Fkd.
 Harper, Thos. B., 40 N 7th
 McClellan & Reese, 2d St. Park, Fox Chase
 Orcutt, Geo. H., 130 S 6th
 Robinson, J. E., 13 S 45th
 Rulon, Jno. B., 321 Vine
 PITTSBURG—Allen, J. M., 132 9th
 Columbia Drilling Co. (Also Oil & Gas
 Wells), Westinghouse bldg
 Darrah, A. C., 211 Water
 Hartman & Gallagher, Keystone bldg
 Kohl, E. S., 7633 Bennett
 Mars Drilling Co., 255 5th av
 SALUNGA—Meyers, Edw. G.
 SCRANTON—Brennan, J. A., Drilling Co.
 SPRING CITY—Mowrey, Saml. R.
 UNIONTOWN—Reynolds, Lyman W.
 WILKINSBURG—Penna. Drilling Co.

RHODE ISLAND.

NARRAGANSETT PIER—McInnes, David
 PROVIDENCE—Artesian Well & Supply Co.,
 137 Dyer
 Barker, Roy S., 141 Allens av
 Grant, C. L., 17 Byron
 Lunt, Moss & Co., 45 Eddy
 Patt, D. M., & Co., 75 Westminster
 Potter, Jerome, 33 Canal
 Russell, E., Artesian Well Co., 45 Olney

SOUTH CAROLINA.

CHARLESTON—Hughes Specialty Well Drill-
 ing Co.
 Kramer, B. F., 60 Meeting

TENNESSEE.

MEMPHIS—Beloate, J. N., 579 Cox av
 Browne & Borum, 254 2d
 Goldberry, Albert, 1314 McLemore av

TEXAS.

DALLAS—**AMERICAN WELL WORKS.**
 (See adv. index, end of book)
 FORT WORTH—Hamilton, A. J., 404 W 14th
 GALVESTON—Elder, L. V., 212 Tremont

VIRGINIA.

NORFOLK—Moseley, Augustus, Princess Anne
 RICHMOND—Hood, Chas., 1119 N 32d av
 Sydnor Pump & Well Co. (Inc.), 1326 E
 Main

WEST VIRGINIA.

BERKLEY SPRINGS—Kees & Michel

WISCONSIN.

ADELL—Forbes, Geo. W.
 Horn, Fred
 BARABOO—Clark, F. B.
 BEAVER DAM—Roller, J. V.
 BYRON—Fink & Martin
 CEDARBURG—Heckler, E.
 CHILTON—Harper & Son
 DE PERE—Gowey, A. L.
 FOUNTAIN CITY—Freid & Co.
 GENOA JUNCTION—Miller's, W. J., Sons.
 HIGHLAND—Chatt & Burns.
 HILLSBORO—Bailey, E. I.
 HIXTON—Chandler & Dell
 HUSTISFORD—Dornfeld Bros.
 INDEPENDENCE—Bautch, A. J., Pump Co.
 JUNEAU—Brenski, Jno.
 KAUKAUNA—Black, J. M.
 Faust, J. J., & Co.
 KOHLER—Wittinger, J.
 LIME RIDGE—Wheeler, Wm.
 LODI—Michael Bros.
 MACFARLAND—Johnson, Oscar
 MADISON—Eastman, Jno. A.
 MILWAUKEE—Bauer, Jacob, 373 21st av
 Bauer, Peter, 323 21st av
 Butler, Thos., 2015 Clybourn
 Deegan, Jno., 248 36th
 Egelhoff, Theo., 481 19th av
 Fischer, Carl, 782 11th av
 Gray, Frank M., 218 15th
 Nickel, Hy., 1171 Bremen
 Nothohm, Theo. M., 380 Greenfield av
 Porath, Albert J., 901 8th av
 Reiss, Valentine, 588 11th av
 Tolzmann, Chas., 2217 Lloyd
 Zlemann, Albert, 1070 23d av
 MINERAL POINT—Stover, A. D.
 POYNETTE—Eagan, Thos.
 SHIOCTON—Budd, H. S.

**Well Supplies (Artesian & Tub-
ular)**

(See Machinery, Well Drilling)

Wharf Builders

(See Dock Builders.)

Wheel Truing Device

Whitney Mfg. Co. (For Water Tool Grinders),
 Hartford, Conn.

Wheelbarrow Mfrs.

(See also Barrows, Various Kinds.)

Akron Cultivator Co. (Steel), Akron, O. Main
 Office, Cleveland, O.
 American Fork & Hoe Co. (Steel & Wood).
 Main Office, Cleveland, O.
 American Steel Scraper Co. (Steel), Sidney, O.
 Ames Plow Co., Quincy Hall, Boston.
 ANDERSON, W. H., TOOL & SUPPLY
 Co., 14 Macomb, Detroit, Mich. (See adv.
 index, end of book)
 ARCHER IRON WORKS CO. (Steel,
 all kinds), 32 La Salle, Chicago, Ill. (See
 adv. index, end of book)
 Arnold-Creager Co. (Brick), New London, O.
 Babcock Mfg. Co. ("Otsego"), Leonardsville,
 N. Y.
 Biggs Boiler Works Co., Akron, O.
 Bodley Wagon Co., Memphis, Tenn.
 Bryan Mfg. Co. (Steel, etc.), Bryan, O.
 Buch's, A. Sons (Wood), Elizabethtown, Pa.
 Buffalo Scale Co., Buffalo, N. Y.
 Chattanooga Wheelbarrow & Mfg. Co., Chatta-
 nooga, Tenn.
 Cockburn Barrow & Mach. Co., Jersey City, N. J.
 Dederick's, P. K. Sons, Albany, N. Y.
 Defiance Box Co. (Wood), Defiance, O.
 Eagle Machine Co., Lancaster, O.
 Earl, F. H. Mfg. Co. (Wooden), Plano, Ill.
 FAIRBANKS, MORSE & CO. (Rail-
 road, Canal, etc.), Franklin & Monroe, Chi-
 cago, Ill. (See adv. index & branch offices,
 end of book)
 Farquhar, A. B. Co. (Ltd.), York, Pa.
 Focht, George Sons (Steel), 119 Adams, Hobo-
 ken, N. J.
 Goshen Wheelbarrow Works, Goshen, Ind.
 Hake Mfg. Co. (Wood), Grand Rapids, Mich.
 Havana Metal Wheel Co. (Steel), Havana, Ill.
 Harrison, W. R. & Co., Massillon, O.
 Holyoke Steam Boiler Works (Wrought Iron),
 Holyoke, Mass.
 Hunt, C. W. Co., West New Brighton, N. Y., &
 45 Broadway, New York

Jackson Mfg. Co. (Steel), Harrisburg, Pa.
Jones & Laughlin Steel Co., Pittsburgh, Pa.
Kalamazoo Railway Supply Co., Kalamazoo, Mich.

Keystone Farm Machine Co. (Garden), York, Pa.
Kilbourne & Jacobs Mfg. Co. (For all Purposes), Columbus, O.

KOPPEL, ARTHUR CO. (Steel), 68 Broad, New York. (See adv. index & branch offices, end of book)

Lansing Wheelbarrow Co. (Steel & Wood), Lansing, Mich.

McWhinnie, Thomas (Wooden), Poughkeepsie, N. Y.
Magnolia Mfg. Co., Magnolia, Ark.

Michigan Wheelbarrow & Truck Co., Saginaw, Mich.

Needham Water Works Co., 66 W. Lake, Chicago, Ill.

New York Wheelbarrow Co., 180 West, N. Y.

OIL WELL SUPPLY CO., 215 Water, Pittsburgh, Pa. (See adv. index, end of book)

Parker Holst & Machine Co. ("Workingman's Friend," "Contractors' Favorite," "Acme," "Eureka"), 971 N. Francisco av., Chicago, Ill.

Patten & Stafford Co. (Light), Canastota, N. Y.
Puffer-Hubbard Mfg. Co., Minneapolis, Minn.

Pugsley & Chapman, 180 West, New York.
Rockwell, S. L. & Son (Wood), Jordan, N. Y.

Scott's Patent Brick Car Co., Knoxville, Tenn.
Seidel, Robert D. (Wrought Iron & Steel), Reading, Pa.

Shumaker Bros. & Nixon (Gardeu), Castile, N. Y.
Sidney Steel Scraper Co. (Wood & Steel Frame), Sidney, O.

Southern Foundry & Machine Works, Fredericksburg, Va.

STANDARD SCALES SUPPLY CO., 243 Water, Pittsburg, Pa. (See adv. index & branch offices, end of book)

Sterling Wheel Barrow Co. (Roller Bearing, Wood, Steel & Tubular Frame, Mortar, Concrete & Contractors, etc.), Milwaukee, Wis.

Stuebner, G. L. Iron Works (Steel, etc.), 12th & Vernon av., Long Island City, New York

Syracuse Chilled Plow Co. (Steel & Wood), Syracuse, N. Y.

Tanner, D. F. (Garden, etc.), Holland, N. Y.

Thomas G. W. Co., Toledo, O.

Toledo Steel Wheelbarrow Co., Toledo, O.

Union Iron Works (Steel, etc.), Hoboken, N. J.

Walker, E. W. & Stutz Co. (Wood), Goshen, Ind.

West Side Foundry Co., Watervliet, Troy, N. Y.

Western Wheelbarrow & Mfg. Co., Kansas City, Kans.

WIENER, ERNST CO. (Steel), 68 Broad, New York. (See adv. index, end of book)

Whitman Agricultural Co. (Wood), St. Louis, Mo.

Withington & Cooley Mfg. Co. (Wood), Jackson, Mich.

Zering, H. Mfg. Co., 218 Charles, Cincinnati, O.

Wheel Scrapers

(See Road Scrapers, Drag & Wheel.)

Wheels (Automobile Steering)

(See also Gears, Automobile Steering.)

Auto Brass & Aluminum Co., Flint, Mich.

Auto & Power Appliance Co., The Arcade, Cleveland, O.

Byrne, Kingston & Co. ("Kingston"), Kokomo, Ind.

Cambria Forge Co., Johnstown, Pa.

Centaur Motor Co., 59 Franklin, Buffalo, N. Y.

Columbus Brass Co., Columbus, O.

Cramp, Wm. & Sons, Beach & Wall sts., Philadelphia, Pa.

Globe Mach. & Stamping Co., Cleveland, O.

Hussey Drop Forge & Mfg. Co. (Slide, Tilting, Solid, etc.), Cleveland, O.

Irving Richard Co., 25 Broad, New York city

Jamesville Mfg. Co., Jamesville, N. Y.

Mesinger, H. & P. Mfg. Co., 1807 1st av., New York city

Meyer Cycle Co., Fort Wayne, Ind.

Muncie Auto, Parts Co., Muncie, Ind.

Rastetter, L. & Sons, Fort Wayne, Ind.

Smith, A. O. Co., Milwaukee, Wis.

Standard Welding Co., Central av. & 70th, S E., Cleveland, O.

Steam Carriage Boiler Co., Oswego, N. Y.

Tucker Wood Work Co., Sidney, O.

Warner Gear Co., Muncie, Ind.

Wheels (Ball Bearing)

Gardner Sash Balance Co. (For all Purposes), 164 Dearborn, Chicago, Ill.

McCABE HANGER MFG. CO., 425 W 25th, New York. (See adv. index, end of book)

Wheels (Buffing & Polishing)

(See also Buffing & Polishing Machines.)

Bacon Bros., Winchester, Mass.

Builders' Iron Foundry, Providence, R. I.

Diamond Machine Co., Providence, R. I.

Divine Bros. Co. (The Compress), Utica, N. Y.

Eastern Felting & Buffing Wheel Co., Winchester, Mass.

Easton Polishing Supply Co. (Wood Leather Covered, Sheepskin, Walrus, Canvas, Felt, Paper Wheels, Buffs, etc.), Easton, Pa.

Foot Mfg. Co. (Sheepskin, Solid Bull Neck Leather, Challenge Canvas, etc.), Jersey City, N. J.

Gesswein, F. W. Co., 39 John, New York

Hanson & Van Winkle Co., 219 Market, Newark, N. J.

Northampton Emery Wheel Co., Leeds, Mass.

Rockwood Mfg. Co. (Paper), Indianapolis, Ind.

Springfield Mfg. Co., Bridgeport, Conn.

Sterling Emery Wheel Mfg. Co., Tiffin, O.

Thayer's, Ellis Son, Pawtucket, R. I.

Tingue, Brown & Co., 27 Park pl., New York

Zucker & Levett & Loeb Co., 528 W 25th, New York

Wheels (Bull)

Parker Holst & Machine Co., 971 N. Francisco, Chicago, Ill.

Wheels (Car)

Allis-Chalmers Co., New York Life bldg, Chicago, Ill.

American Car & Foundry Co., 706 Chestnut, St. American Steel Foundries, Main Office, 42 B'way, New York. & Commercial Nat'l Bank bldg, Chicago, Ill.

Arnold-Creager Co., New London, O.

Atlanta Car Wheel & Mfg. Co. (Chilled), Atlanta, Ga.

Atlas Car Mfg. Co., Cleveland, O.

Baltimore Car-Wheel Co., Fulton Station, Baltimore, Md.

Barney & Smith Car Co., Dayton, O.

Barnum-Richardson Co., Lime Rock, Conn.

Bass Foundry & Machine Co., Fort Wayne, Ind.

Bloomsburg Car Mfg. Co., Bloomsburg, Pa.

Boston Car Wheel Co. (Street & Steam), Chelsea, Mass., & Boston, Mass.

Brill, J. G. Co., 62d & Woodland av., Phila., Pa.

Brown Car Wheel Works, Howard, c Thomas, Buffalo, N. Y.

Buda Foundry & Mfg. Co., Harvey, Ill., & Railway Exchange bldg, Chicago, Ill.

Catawissa Car & Foundry Works (Up to 24 inches with or without axle), Catawissa, Pa.

Central Car Wheel Co. (Chilled Iron), Farmers' Bank bldg, Pittsburg, Pa., & McKees Rock, Pa.

Central Foundry & Car Co., Irvona, Pa.

Chattanooga Car & Foundry Co., Chattanooga, Tenn.

Chase Foundry & Mfg. Co., Columbus, O.

Chester Steel Castings Co., Chester, Pa., & 407 Sansom, Philadelphia, Pa.

Connellsville Machine & Car Co., Connellsville, Pa.

Davis Locomotive Wheel Co., Ft. Worth, Tex.

Decatur Car Wheel & Mfg. Co., Birmingham, Ala.

Dickson Car Wheel Co. (Chilled Car & Engine), Houston, Tex.

Dora Foundry, Car Wheel & Machine Co., Pulaski, Va.

Eagle Iron Works Co., Terra Haute, Ind.

Edging, Edw. J. ("Car & Locomotive"), Land Title bldg, Phila., Pa., & 39 Cortlandt, New York

Ford & Kimball, Concord, N. H.

Fort Madison Iron Works, Fort Madison, Ia., & Chicago, Ill.

Fort Wayne Foundry & Machine Co. (Car, Engine, Truck, Tender & Driving), Ft. Wayne, Ind.

Fulton Pitt Car Works, Canal Fulton, O.

Green's Car Wheel Mfg. Co., 3018 N Broadway, St. Louis, Mo.

Griffin Wheel Co. (Chilled Iron Wheels of All Kinds), Main Office, 138 Jackson boul., Chicago, Ill.

Haskell & Barker Car Co., Michigan City, Ind.

Kilbourne & Jacobs Mfg. Co., Columbus, Ohio

KOPPEL, ARTHUR CO., 68 Broad, New York. (See adv. below; branch offices, end of book)

**MANUFACTURERS OF
COMPLETE INDUSTRIAL
AND
PORTABLE RAILROADS
A LARGE STOCK
— OF —**

Rails, Steel Ties, Track, Portable Track, Switches, Frogs, Turntables, Wheels, Axles, Crossings, Spare Parts, Locomotives, Etc.

WRITE FOR CATALOG "M"

ARTHUR KOPPEL COMPANY

66-68 Broad Street, New York
1639 Monadnock Blk., Chicago
Machesney Bldg., Pittsburgh
Chronicle Bldg., San Francisco
Works at Koppel, Beaver Co., Pa.

Laconia Car Co., Works, 100 Boylston, Boston, Mass.

Lansing Wheelbarrow Co., Lansing, Mich.

Lehigh Car Wheel & Axle Works, Catasauqua, Pa.

Lima Locomotive & Machine Co., Lima, O.

Loddell Car Wheel Co., Wilmington, Del.

Louisville Car Wheel & Railway Supply Co., 308 5th, Louisville, Ky.

Manistee Iron Works Co., Manistee, Mich.

Marshall Car Wheel & Foundry Co., Marshall, Tex.

Maryland Car Wheel Works, 44 South, Baltimore, Md.

Montreal Car Wheel Works, Montreal, Que., Canada

Mt. Vernon Car Mfg. Co., Mt. Vernon, Ill.

Mowry Car Wheel Works, 2401 Eastern av., Cincinnati, O.

National Car Wheel Co. (Chilled Iron), 556 W 34th, New York

Nelsonville Foundry & Machine Co. (Capless), Nelsonville, O.

New York Car Wheel Co. (All Kinds), German Ins. bldg, Buffalo, N. Y., & 771 G'wich, N. Y.

Peacock's Iron Works, Selma, Ala.

Penna. Car Wheel Co., 499 Preble, Allegheny, Pa.

Portage Lake Foundry & Machinery Co. (Chilled), Hancock, Mich.

Ramapo Foundry & Wheel Works, Ramapo, N. Y.

Reading Car Wheel Co., Ellicott sq, Buffalo, N. Y.

Risdon Iron Works, San Francisco, Cal.

RUSSEL WHEEL & FOUNDRY CO., Detroit, Mich. (See adv. index, end of book)

St. Louis Car Wheel Co., (Chilled), Spring av & Mo. Pac. Ry., St. Louis, Mo.

St. Paul Foundry Co., St. Paul, Minn.

Sanford-Day Iron Works, Knoxville, Tenn.

Schoen Steel Wheel Co. (Steel), Farmers' Bank bldg, Pittsburg, Pa.

Sheffield Car Co. (Wrought, Steel & Cast), Three Rivers, Mich.

Standard Car Wheel Co. (Chilled), Cleveland, O.

Standard Wheel Works, 1502 Market, Phila., Pa., & 71 B'way, N. Y.

Steiger & Kerr, San Francisco, Cal.

Sullivan Machinery Co., 135 Adams, Chicago, Ill.

Taylor Iron & Steel Co., High Bridge, N. J.

Thacher, Geo. H. & Co., Albany, N. Y.

Tredegar Co., Richmond, Va.

Vulcan Iron Works, Wilkesbarre, Pa.

Wason Mfg. Co., Brightwood, Springfield, Mass.

**When writing to firms listed
in this book please mention
HENDRICKS'
COMMERCIAL REGISTER**

Wheeler Forged Steel Wheel Co., Harrisburg, Pa.
WIENER, ERNST CO., 68 Broad,
 New York. (See adv. index, end of hook)
 Youngstown Car Mfg. Co. (8 to 20 Inch Plain,
 Self-Oiling & Roller Bearing), Youngstown,
 Ohio

Wheels (Car, Ball or Roller Bearing)

Buda Foundry & Mfg. Co., Harvey, Ill., &
 Railway Exchange bldg, Chicago, Ill.
 Youngstown Car Mfg. Co. (Roller Bearing),
 Youngstown, Ohio

Wheels (Caster)

American Wood Working Co. (Wood), 108 Ful-
 ton, New York
 Peters', Jno. M. Sons (Wood Caster Rolls),
 Bleecker, N. Y.
 Sommer's, Jno. Son (Wooden), Newark, N. J.
 Williams & Marvin Mfg. Co. (Wood), Deep
 River, Conn.

Wheels (Chilled Bridge)

Lobdell Car Wheel Co., Wilmington, Del.

Wheels (Corrugated Grinding)

Corrugated Grinding Wheel Co., 5036 Hazel
 av, Phila., Pa.

Wheels (Counting & Printing)

Franklin, H. H. Mfg. Co., Syracuse, N. Y.

Wheels (Dial, Measuring)

Jones, J. M., 268 Broadway, Cambridge, Mass.

Wheels (Driving)

American & British Mfg. Co., Providence, R. I.,
 & Bridgeport, Conn.
 Baltimore Car-Wheel Co., Fulton Station, Bal-
 timore, Md.
BROWN, A. & F. CO., 25 Dey, New
 York. Works, Elizabethport, N. J. (See
 adv. index, end of book)
 Chester Steel Castings Co., Chester, Pa., & 407
 Sansom, Phila., Pa.
 Commonwealth Steel Co. (Steel), Commerce
 bldg, St. Louis, Mo. Works, Granite City,
 Falk Co., ft. 30th, Milwaukee, Wis.
 Lehigh Car Wheel & Axle Works, Catasauqua,
 Pa.
 National Car Wheel Co., 556 W. 34th, N. Y.
 New York Car Wheel Co., 15 Forest av, Buf-
 faio, N. Y., & 771 Greenwich, New York
 Ramapo Iron Works, Hiliburn, N. Y.
 Sullivan Machinery Co., 135 Adams, Chicago,
 Ill.
 Wason Mfg. Co., Brightwood, Springfield, Mass.
 Whitney, A. & Sons, Betz bldg, Phila., Pa.

Wheels (Driving, Steel Tired)

(See Wheels, Steel Tired Car.)

Wheels (Dry Kiln)

Bates Forge Co., Indianapolis, Ind.
LITTLE, J. R. METAL WHEEL CO.
 (Steel), Quincy, Ill. (See adv. on following
 page)
RUSSEL WHEEL & FOUNDRY CO.,
 Detroit, Mich. (See adv. index, end of
 book)

Wheels (Fifth)

American Roller Bearing Fifth Wheel Co.,
 745 3d av, Brooklyn, N. Y.
 Bradley, C. C. & Son, Syracuse, N. Y.
 Columbus Bolt Works, Columbus, O.
 Dayton Malleable Iron Co., Dayton, O.
 Eberhard Mfg. Co., Cleveland, O.
 Keystone Forging Co., Northumberland, Pa.
 Millersburg Fifth Wheel Co., Millersburg, Pa.
 National Mfg. Co., Lancaster, Pa.
 Selie Gear Co., Akron, O.
 Weston-Mott Co., Flint, Mich.
 Wilcox, D., Mfg. Co. (Full Line), Mechanics-
 burg, Pa.

Wheels (Flange)

Avery Stamping Co. ("Never-Break" Steel),
 Lake & Coe, Cleveland, O.
 Bates Forge Co. (Drop Forged), Indianapolis,
 Ind.

Wheels (Fly)

Allis-Chalmers Co., Home Ins. bldg, Chicago,
 Ill.
BROWN, A. & F. CO., 25 Dey, New
 York. Works, Elizabethport, N. J. (See
 adv. index, end of book)
 Cooper, C. & G. Co., Mt. Vernon, Ohio
 Cresson, Geo. V. Co., Allegheny av W of 17th,
 Phila., Pa., & 141 Liberty, N. Y.
 Danville Foundry & Machine Co., Danville, Pa.
 Diamond State Fibre Co., Elsmere, Del.
DODGE MFG. CO., Mishawaka, Ind.
 (See adv. index & branch offices, end of
 book)
 Eastwood Wire Mfg. Co., Belleville, N. J.
 Eyster, Weiser & Co., Ltd., York, Pa.
 Filer & Stowell Co., Home Office, Milwaukee,
 Wis.
 Fitchburg Foundry Co., Fitchburg, Mass.
 Goodnow, L. H. Fdy. Co. (Finished Ready for
 Engine), Fitchburg, Mass.
 Great Lakes Engineering Works, Rivard st. &
 Detroit River, Detroit, Mich.
 Jones & Laughlin Steel Co., Pittsburg, Pa.
 Link Belt Machinery Co. (Fly Wheels), 39th &
 Stewart av, Chicago, Ill.
 Medart Patent Pulley Co. (Fly Wheels), 3500
 De Kaih av, St. Louis, Mo.
 Nordberg Mfg. Co., Milwaukee, Wis.
 Philadelphia Roll & Machine Co., S 23d &
 Wash'n av, Phila., Pa.
 Platt Iron Works Co., Dayton, O., & 100
 B'way, New York
 Poole Engineering & Machine Co., Woodherry
 Station, Baltimore, Md.
 Porter Foundry & Machine Co., Allegheny, Pa.
 Scaife Foundry & Machine Co., 28th & Small-
 man, Pittsburg, Pa.
 Southwark Foundry & Machine Co., Phila., Pa.
 Vulcan Iron Works, Wilkes-Barre, Pa.

Wheels for Traveling Cranes

AMERICAN BRAKE SHOE & FOUN-
 dry Co., 170 B'way, New York. Works &
 Sales Offices, Chicago Heights, Ind. (See
 adv. index, end of hook)
 Lobdell Car Wheel Co. (Chilled & Double
 Flange), Wilmington, Del.
 New York Car Wheel Co., 15 Forest av, Buf-
 faio, N. Y., & 771 G'wich, New York
RUSSEL WHEEL & FOUNDRY CO.,
 Detroit, Mich. (See adv. index, end of hook)
WHITING FOUNDRY EQUIPMENT
 Co., Harvey, Ill. (See adv. index & branch
 offices, end of book)

Wheels (Gear, Hard Fibre)

American Vulcanized Fibre Co., Wilmington,
 Del.
 Delaware Hard Fibre Co., Wilmington, Del.
 Diamond State Fibre Co., Elemere, Del.

Wheels (Granite Polishing)

Whitcomb Bros. (Wrought Iron & Steel), Barre,
 Vt.

Wheels (Hand & Push Car)

Atlas Bolt & Screw Co., Cleveland, O.
 Barnum & Richardson Mfg. Co., 64 S Jeffn.,
 Chicago, Ill.
 Buda Foundry & Mfg. Co., Harvey, Ill., &
 Railway Exchange bldg, Chicago, Ill.
BROWN, A. & F. CO., 25 Dey, New
 York. Works, Elizabethport, N. Y. (See adv.
 index, end of book)
 Eyster, Weiser & Co., Ltd., York, Pa.
FAIRBANKS, MORSE & CO. (Pressed
 Steel, etc.), Franklin & Monroe, Chicago, Ill.
 (See adv. index & branch offices, end of hook)
 Franklin, H. H. Mfg. Co. (Finished Casting),
 Syracuse, N. Y.
 Kalamazoo Railway Supply Co., Kalamazoo,
 Mich.
 Lansing Wheelharrow Co., Lansing, Mich.
LITTLE, J. R. METAL WHEEL CO.
 (Steel), Quincy, Ill. (See adv. on following
 page)
 Lobdell Car Wheel Co., Wilmington, Del.
 New York Car Wheel Co., 15 Forest av, Buf-
 faio, N. Y., & 771 Greenwich, N. Y.
 Peacock's Iron Works, Selma, Ala.
RUSSEL WHEEL & FOUNDRY CO.,
 Detroit, Mich. (See adv. index, end of book)
 Sheffield Car Co., Three Rivers, Mich.
 Whitney, A. & Sons, Betz bldg, Phila., Pa.

Wheels (Logging Car)

AMERICAN BRAKE SHOE & FOUN-
 dry Co., 170 B'way, New York. Works &
 Sales Office, Chicago Heights, Ill. (See
 adv. index & branch offices, end of hook)
 Buda Foundry & Mfg. Co., Harvey, Ill., &
 Railway Exchange bldg
 Butterworth & Lowe, Grand Rapids, Mich.
CANTON FOUNDRY & MACHINE CO.,
 Canton, O. (See adv. index, end of book)
 Diamond Iron Works, Minneapolis, Minn.
 Helmick Foundry & Machine Co., Fairmont,
 Holt Mfg. Co., Stockton, Cal. W. Va.
 Kliby Locomotive & Machine Works, Anniston,
 Ala.



STEEL WHEELS with SOLID HUBS

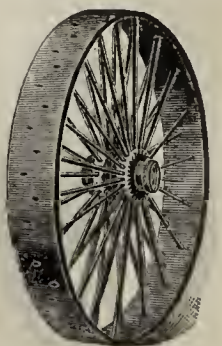
The BUILT-TO-LAST Kind

For any purpose, any size or width of Tire. To fit any
 kind or size of Axle.

WHEELS for Truck Wagons, Contractors' Wagons and Carts, Farm
 Implements, CONCRETE MIXERS, Road Machinery, Log Wagons,
 Portable Mounts, TRACTION ENGINES, Heavy Trucks of all kinds.

WRITE FOR CATALOG OF LINE YOU ARE INTERESTED IN.

ELECTRIC WHEEL CO., Station D, QUINCY, ILL., U.S.A.



KOPPEL, ARTHUR CO., 68 Broad, New York. (See adv. index & branch offices, end of book)
 Lansing Wheelbarrow Co., Lansing, Mich.
LITTLE, J. R. METAL WHEEL CO. (Steel), Quincy, Ill. (See adv. below)
 Lobdell Car Wheel Co., Wilmington, Del.
 Medart Patent Pulley Co. (Lumber Truck), 3500 De Kalb av., St. Louis, Mo.
 Petersburg Iron Works Co., Petersburg, Va.
 Peacock's Iron Works, Selma, Ala.
 Ramapo Fdry. & Machine Wks., Ramapo, N. Y.
RUSSEL WHEEL & FOUNDRY CO., Detroit, Mich. (See adv. index, end of book)
 St. Louis Car Wheel Co. (Chilled), Spring av. & Mo. Pac. R. R., St. Louis, Mo.
 Sheffield Car Co., Three Rivers, Mich.
 Studebaker Bros. Mfg. Co., South Bend, Ind.
WIENER, ERNST CO., 68 Broad, New York. (See adv. index, end of book)

Wheels (Marine Steering)

(See also Gears, Marine Steering.)

Barnes Tool Co., 958 Grand av., New Haven, Conn.
 Byrne, Kingston & Co. ("Kingston"), Kokomo, Ind.
 Edson Mfg. Co., 255 Atlantic av., Boston, Mass.
 Laughlin, Thomas Co., Portland, Me.
 Turner Brass Works, 68 N Franklin, Chicago, Ill.

Wheels (Metal)

ARCHER IRON WORKS CO. (All Kinds), 32 La Salle, Chicago, Ill. (See adv. index, end of book)
 Baker, A. D. Co., Swanton, O.
 Bettendorf Metal Wheel Co., Davenport, Ia., & Bush, Clement, Quincy, Ill. Springfield, O.
 Cannon Metal Wheel Works, Pontiac, Mich.
ELECTRIC WHEEL CO. (Steel Wagon, Carts, etc.), Quincy, Ill. (See adv. on preceding page)
 Farmers' Handy Wagon Co., Saginaw, Mich.
 Fuller & Johnson Mfg. Co., Racine, Wis.
 Geneva Metal Wheel Co., Geneva, O.
HEARTLEY MACHINE, VARIETY Iron & Tool Works (Children's Carriage, Wheelbarrow, Implements, etc.), Toledo, O. (See adv. index, end of book)
 Havana Metal Wheel Co., Havana, Ill.
 Kilbourne & Jacob Mfg. Co. ("Lewsi" Steel Spoke), Columbus, O.
 Lansing Wheelbarrow Co., Lansing, Mich.
LITTLE, J. R. METAL WHEEL CO. (For All Purposes), Quincy, Ill. (See adv. below)
 Lloyd Mfg. Co. (Steel), Minneapolis, Minn.
 Newton Steel Wheel Co. ("Newton," Steel), Kalamazoo, Mich.
 Niles & Scott Co., Laporte, Ind.
 Peru Plow & Wheel Co., Peru, Ill.
 Quincy Corn Planter Co., Quincy, Ill.
RUSSEL WHEEL & FOUNDRY CO., Detroit, Mich. (See adv. index, end of book)
 Sidney Steel Scraper Co. ("Haslup's" Steel), Sidney, O.
 Stahl, William, Sprayer Co., Quincy, Ill.
 Toledo Metal Wheel Co. (Small Wheels for Toy Automobiles, Baby Carriages, etc.), Toledo, Ohio.
 Weston-Mott Co. (Steel Wire), Flint, Mich.
 Whiteside Wheel Co. (Elastic Steel), Indianapolis, Ind.

Wheels (Mine Car)

Allis-Chalmers Co., Milwaukee, Wis.
AMERICAN BRAKE SHOE & FOUNDRY CO. (Steel), 170 B'way, New York. Works & Sales Office, Chicago, Ill. (See adv. index, & branch offices, end of book)
 American Car & Foundry Co., 706 Chestnut, St. Louis, Mo., & 25 Broad, N. Y.
 American Steel Casting Co., Chester, Pa.
 American Steel Foundries, Main Office, 42 B'way, New York; 2 Commercial Natl Bank bldg., Chicago, Ill.
ARCHER IRON WORKS CO. (Oil Bearing), 32 La Salle, Chicago, Ill. (See adv. index, end of book)
 Archer Iron Works, 34th pl & Western av., Chicago, Ill.
 Atlanta Car Wheel & Mfg. Co., Atlanta Ga.
 Atlas Car & Mfg. Co., Cleveland, O.
 Barnum & Richardson Mfg. Co., 64 S Jeffn., Bartlett & Co., Saginaw, Mich. Chicago, Ill.
 Bowler Fdy. Co. (Chilled), Cleveland, O.
 Buda Foundry & Machine Co., Harvey, Ill., & Railway Exchange bldg., Chicago, Ill.
 Catawissa Car & Foundry Works, Catawissa, Pa.
 Christman Co., Masillon, O.
 Connells Machine & Car Co., Connellsville, Pa.
 Cresson Foundry, Machine & Car Co., Ebensburg, Pa.
 Eagle Iron Works, Terre Haute, Ind.
 Eyster, Weiser & Co. (Ltd.), York, Pa.
FAIRBANKS, MORSE & CO., Frank-lin & Monroe, Chicago, Ill. (See adv. index, end of book)
 Grant Iron Works, Mahanoy City, Pa.
 Griffin Wheel Co., Main office, Western Union bldg., Chicago, Ill.
 Gustafson Mfg. Co. (Chilled Self Oiling), Chattanooga, Tenn.
 Harman & Hassert, Bloomsburg, Pa.
 Heiman A. & Bros., Masillon, O.
 Helmick Foundry & Machine Co., Fairmont, W. Va.
 Hempfield Foundry, Greensburg, Pa.
 Hockensmith Wheel & Mine Car Co. ("Eureka," Waste Packed, Peun Station, Pa.
 Kilby Locomotive & Machine Works, Anniston, Ala.
KOPPEL, ARTHUR CO., 68 Broad, New York. (See adv. index, & branch offices, end of book)
 Lansing Wheelbarrow Co., Lansing, Mich.
 Lehigh Car Wheel & Axle Works, Catasauqua, Pa.
 Litchfield Fdry. & Mach. Co., Litchfield, Ill.
 Lobdell Car Wheel Co., Wilmington, Del.
 Niles Mine & Supply Co., Niles, O., & Williamson bldg., Cleveland, O.
 New York Car Wheel Co., 15 Forest av., Buffalo, N. Y., & 771 Greenwich, N. Y.
 Peacock's Iron Works, Selma, Ala.
 Phillips Mine & Mill Supply Co., Pittsburg, Pa.
 Ple, Justin J. (Est. of), Osceola Mills, Pa.
 Ramapo Fdry. & Wheel Works, Ramapo, N. Y.
 Reliance Steel Casting Co., Pittsburg, Pa.
RUSSEL WHEEL & FOUNDRY CO., Detroit, Mich. (See adv. index, end of book)
 St. Louis Car Wheel Co. (Chilled), Spring av. & Mo. P. R. R., St. Louis, Mo.
 Sanford-Day Iron Works, Knoxville, Tenn.
 Scott's Patent Brick Car Co., Knoxville, Tenn.
 Sheffield Car Co., Three Rivers, Mich.
 Star Mfg. Co., New Lexington, O.
 Stiue, S. B. & Son, Osceola Mills, P.

Taylor Iron & Steel Co., High Bridge, N. J.
 Union Iron Works (Inc.), Spokane, Wash.
 Vulcan Iron Works, Wilkesbarre, Pa.
 Watt Mining Car Wheel Co. (Self-Oiling), Baruesville, Ohio.
 West Penn Foundry & Machine Co., Avonmore, Pa.
WIENER, ERNST CO., 68 Broad, New York. (See adv. index, end of book)

Wheels (Never Slip Snow Plow)

Burnham & Duggan Railway Appliance Co., 89 State, Boston, Mass.

Wheels (Pipe Cutter)

Reed Mfg. Co., Erie, Pa.

Wheels (Polishing, Compressed Linen)

Kortum Mfg. Co. ("Kortum"), Attica, N. Y.

Wheels (Pressed Steel)

Buda Foundry & Mfg. Co., Harvey, Ill., & Railway Exchange bldg., Chicago, Ill.

Wheels (Propeller)

(See also Ship Builders.)

Barber Bros. (Reversing), Syracuse, N. Y.
 Bay City Iron Co., Bay City, Mich.
 Benton & Son (Reversing), La Crosse, Wis.
 Chester Steel Casting Co., Chester, Pa., & 407 Sansom, Phila.
 Connell, J. D. Iron Works Co. (Iron & Composition), New Orleans, La.
 Cramp, Wm. & Sons Ship & Engine Building Co., Phila., Pa.
 Cross, M. O. Engine Co., Detroit, Mich.
 Duluth Gas Engine Works ("Crescent"), Duluth, Minn.
 Fairbanks-Grant Mfg. Co., Ithaca, N. Y.
 Ferguson, F. & Son, 1122 Clintou, Hoboken, N. J.
 Great Lakes Engineering Works Rivard & Detroit River, Detroit, Mich.
 King Iron Works, 226 Ohio, Buffalo, N. Y.
 Konwalsky J. (For Yachts), 3200 Penn av, Pittsburgh, Pa.
 Lacy, Jas. J. & Co., Baltimore, Md.
 Lake Shore Engine Works ("New Superior" Reversible), Marquette, Mich.
 Lockwood Mfg. Co. (Inc.), 61 Sumner, E. B. Boston, Mass.
 McFarland Foundry & Machine Works ("Hartman"), Trenton, N. J.
 MacKinnon Mfg. Co. (Specialty, Small Yacht Wheels), Bay City, Mich.
 Macbeth Iron Co., Cleveland, O.
 Marine Hardware Co. ("Geyer" Reversible), Peabody, Mass.
 Michigan Motor Co., Grand Rapids, Mich.
 Montague Iron Works Co., Montague, Mich.
 Morris Machine Works, Baldwinville, N. Y.
 Neafie & Levy Ship & Engine Building Co. (Philadelphia), 1336 Beach, Phila., Pa.
 Norwalk Brass Co., Norwalk, Conn.
 Paine, Jas. H. & Son, Noank, Conn.
 Penn Steel Casting & Machine Co., Chester, Pa.
 Pusey & Jones Co. (Also Gearing Wheels), Wilmington, Del.
 Trout, H. G., Buffalo, N. Y.

We Make Anything in Metal Wheels

FOR ANY USE,

Any size, tire width or capacity and to fit any axle or skein.

ALSO

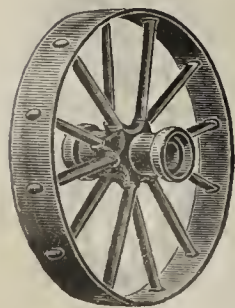
IMPLEMENT WHEELS

OF EVERY DESCRIPTION.

Address,

J. R. LITTLE METAL WHEEL COMPANY,

QUINCY, ILL.



Reeves, Paul & Co. (Reeves' Tubal Bronze), 1413 Catharine, Phila., Pa.
Seaboard Steel Casting Co., Chester, Pa.
Sheriff's Mfg. Co., 124 Barclay, Milwaukee, Wis.
Spaulding Engine Co., Engine Works (Reversible for Launches), St. Joseph, Mich.
Sullivan, Jno. W., 385 South, N. Y.
Thropp, John E., Sons Co., Trenton, N. J.
Truscott Boat Mfg. Co. (for Pleasure Crafts), St. Joseph, Mich.
Wolverine Motor Works (Reversible for Launches, etc.), Grand Rapids, Mich.

Wheels (Radiator Valve, Wood)

Estes, E. B. & Sons, 74 Warren, New York.
NOVELTY TURNING CO., Norway, Me. (See adv. index, end of book)
Thayer, Geo. A., Spruce Corner, Mass.

Wheels (Rubber Tired)

Clark, Geo. P. Co., Windsor Locks, Conn.
Lansing Wheelbarrow Co. (Truck), Lansing, Meeker Mfg. Co., Dayton, Ohio.

Wheels (Self-Oiling)

(For Mine & Other Light Cars.)

Atlas Car & Mfg. Co. ("Wright"), Cleveland, Ohio
Central Iron Works (For Coal Cars), Quincy, Ill.
Chrome Steel Works (Mine Car, Canada Patent), Kent av c Keap, B'klyn, N. Y.
Davis, F. M., Iron Works Co., 8th & Lorimer, Denver, Col.
Denver Engineering Works Co., Blake & 30th, Denver, Col.
Dora Fdy. & Car Wheel & Machine Co., Pulaski, Gustafson Mfg. Co., Chattanooga, Tenn. Va.
Helmick Foundry & Machine Co. (Chilled), Fairmont, W. Va.
KOPPEL, ARTHUR CO., 68 Broad, New York. (See adv. index, & branch offices, end of book)
Helmann, A. & Bro., Massillon, O.
Helmick Foundry Machine Co., Mairmont, W. Va.
Lansing Wheelbarrow Co., Lansing, Mich.
Lehigh Car Wheel & Axle Works, Catsaqua, Pa.
Lobdell Car Wheel Co., Wilmington, Del.
Lehigh Car Wheel & Axle Works, Fullerton, Pa.
Mine & Smelter Supply Co., Denver, Col.
Peacock's Iron Works, Selma, Ala.
Phillip's Mine Supply Co., Pittsburg, Pa.
Stine, S. B. & Son, Osceola Mills, Pa.
Truax Mfg. Co., 1725 Wazee, Denver, Col.
Union Iron Works, Spokane, Wash'n
Watt Mining Car Wheel Co. (Mine Car), Barnesville, O.
WIENER ERNST CO., 68 Broad, New York. (See adv. index, end of book)
Youngstown Car Mfg. Co. (Plain & Roller Bearing), Youngstown, O.

Wheels (Sprocket)

AMERICAN BRAKE SHOE & FOUNDRY CO., 170 B'way, New York. Works & Sales Office, Chicago Heights, Ill. (See adv. index, & branch offices, end of book)
AMERICAN WELL WORKS, Aurora, Ill. (See adv. index, & branch offices, end of book)
BARTLETT, C. O. & SNOW CO., French nr Columbus, Cleveland, O. (See adv. index, end of book)
BROWN, A. & F. CO., 25 Dey, New York. Works, Elizabethport, N. J. (See adv. index, end of book)
Buhl Malleable Co., Detroit, Mich.
Caldwell, H. W. & Son Co., 17th & Western av, Chicago
CODD, E. J. CO., 700-708 S. Caroline, Baltimore, Md. (See adv. index, end of book)
Chain Belt Co., Milwaukee, Wis.
Cresson, Geo. V. Co., Allegheny av, W of 17th, Phila., Pa., & 141 Liberty, New York
DAVIS, RODNEY, 626 Race, Phila., Pa. (See adv. index, end of book)
Diamond Iron Works (For Saw Mills, etc.), Minneapolis, Minn.
DODGE MFG. CO., Mishawaka, Ind. (See adv. index, & branch offices, end of book)
Exeter Machine Works, Pittston, Pa. (book)
Ewart Mfg. Co., Chicago, Ill. Works, Indianapolis, Ind.
Filler & Stowell Co., Home Office, Milwaukee, Frost Mfg. Co., Galesburg, Ill. Wis.
Garland, M. Co., Bay City, Mich.

Great Western Mfg. Co., Leavenworth, Kan.
Greenwald, I. & E. Co., 720 E. Pearl, Cincinnati, O.
Indianapolis Drop Forging Co., Indianapolis, Ind.
JEFFREY MFG. CO., Columbus, O.; (See adv. index, & branch offices, end of book)
Jones, W. A., Fdy. & Machine Co. (For Chain Drives, Gearing), 143 W North av, Chicago, Ill.
Link Chain Belt Co., 52 Dey, New York
Link Belt Co., W. 39th & Stewart av, Chicago, Ill., & 299 B'way, New York.
Marselles Mfg. Co., Marselles, Ill.
MEAD-MORRISON MFG. CO., Cambridge (Boston), Mass., & 11 B'way, New York. (See adv. index & branch offices, end of book)
Medart Patent Pulley Co., 3500 DeKalb av, St. Louis, Mo.
Mey Chain Belting Engineering Works (Chain Sprockets), 34 Washington, Buffalo, N. Y.
MINNEAPOLIS STEEL & MACHINERY CO., Minneapolis, Minn. (See adv. index, & branch offices, end of book)
Moline Malleable Iron Co., St. Charles, Ill.
Nordyke & Marmon Co., Indianapolis, Ind.
PHILADELPHIA GEAR WORKS (Inc.), 7th & Cherry, Phila., Pa. (See adv. index, end of book)
Port Huron Engine & Thresher Co., Port Huron, Mich.
Poole Engineering & Machine Co., Woodbury Station, Baltimore, Md.
Portland Iron Works, Portland, Ore.
Scaife Foundry & Machine Co., Pittsburg, Pa.
Skillin & Richards Mfg. Co., 147 Fulton, Chicago, Ill.
Taylor Iron & Steel Co., High Bridge, N. J.
Webster Mfg. Co., 1075 W 15th, Chicago, & 38 Dey, N. Y.
Wolf Co. (Chambersburg, Pa.)

Wheels (Steel Tired Car)

Green's Car Wheel Mfg. Co., 3018 N B'way, St. Louis, Mo.
Lehigh Car Wheel & Axle Works, Catsaqua, Pa.
Lobdell Car Wheel Co., Wilmington, Del.
Page, Newell & Co. (Imported), 93 Broad, Boston, Mass.
Prosser, Thos. & Son (the Krupp), 15 Gold, N. Y.
Railway Steel Spring Co. (For Electric Railway Cars) 71 B'way, New York.
Standard Steel Works, 1502 Market, Phila., Pa., & Monadnock blk. Chicago, Ill.
Taylor Iron & Steel Co., High Bridge, N. J.
Whitney, A. & Sons, Betz bldg, Phila., Pa.

Wheels (Steel Truck)

AMERICAN BRAKE SHOE & FOUNDRY CO., 170 B'way, New York. Works & Sales Office, Chicago Heights, Ill. (See adv. index & branch offices, end of book)
ARCHER IRON WORKS CO. (Oil Bearing), 32 La Salle, Chicago, Ill. (See adv. index, end of book)
Brown Car Wheel Works, Howard c Thomas, Buffalo, N. Y.
Buda Foundry & Mfg. Co., Railway Exchange bldg, Chicago, Ill. Works, Harvey, Ill.
Chickasaw Iron Works, Memphis, Tenn.
Jones & Laughlin Steel Co., Pittsburg, Pa.; 220 B'way, New York
Kilburne & Jacobs Mfg. Co., Columbus, O.
Lehigh Car Wheel & Axle Works, Catsaqua, Pa.
LITTLE, J. R. METAL WHEEL CO., Quincy, Ill. (See adv. on preceding page)
Niles & Scott Co., La Porte, Ind.
Prosser, Thos. & Son (the Krupp), 15 Gold, N. Y.
Railway Steel Spring Co., 71 B'way, N. Y.; Chicago & Detroit
Sheffield Car Co., Three Rivers, Mich.

Wheels (Steel Vehicle)

Bryant Steel Wheel & Rim Co., Columbus, O.
Electric Wheel Co., Quincy, Ill.
Geneva Metal Wheel Co., Geneva, O.
Newton Steel Wheel Co., Kalamazoo, Mich.
Parish & Bingham Co., Hamilton nr Coe, Cleveland, O.
Turner & Fish, 21 Quincy, Chicago, Ill.

Wheels (Steering)

(See Wheels, Automobile Steering; also Wheels, Marine Steering.)

Wheels (Street Car)

American Car & Foundry Co., 706 Chestnut, St. Louis, Mo., & 25 Broad, N. Y.
Atlanta Car Wheel & Mfg. Co. (Chilled), Atlanta, Ga.
Baltimore Car Wheel Co., Fulton Station, Baltimore, Md.
Brill, J. G. Co., 62d & Woodland av, Phila., Pa.
Chattanooga Car & Foundry Co., Chattanooga, Tenn.
Chrome Steel Works, Chrome, N. Y.
Griffin Wheel Co., main office, 138 Jackson boul, Chicago, Ill.
Laconia Car Co. Works, 100 Boylston, Boston, Mass., Works, Laconia, N. H.
Lehigh Car Wheel & Axle Works, Catsaqua, Pa.
Lobdell Car Wheel Co., Wilmington, Del.
National Car Wheel Co. (Chilled Iron), 556 W 34th, New York
New York Car Wheel Co., 771 Greenwich, New York City, & Buffalo, N. Y.
Phila. Car Wheel Co., Betz bldg, Phila., Pa.
Works, Black Rock, Buffalo, N. Y.
Railway Steel Spring Co., 71 B'way, New York
RUSSEL WHEEL & FOUNDRY CO., Detroit, Mich. (See adv. index, end of book)
St. Louis Car Wheel Co. (Chilled), Spring av & Mo. Pac. Ry., St. Louis, Mo.
Schoen Steel Wheel Co., Farmers' Bank bldg, Pittsburg, Pa.
Standard Car Wheel Co. (Chilled), Cleveland, Ohio
Standard Steel Works, Harrison bldg, Phila., Pa.
Taylor Iron & Steel Co., High Bridge, N. J.
Whitney, A. & Sons, Betz bldg, Phila., Pa.

Wheels (Tire Measuring)

Comstock, Geo. S. (Graduated with Pointer), Mechanicsburg, Pa.
Wiley & Russell Mfg. Co. ("Green River"), Greenfield, Mass.

Wheels (Tracing)

Arcade Mfg. Co., Freeport, Ill.
Cassady-Fairbank Mfg. Co., 6106 La Salle, Chicago, Ill.

*Wheels (Traveling Crane)

AMERICAN BRAKE SHOE & FOUNDRY CO., 170 B'way, New York. Works, Chicago Heights, Ill. (See adv. index & branch offices, end of book)

Wheels (Trolley)

Ajax Metal Co., 46 Richmond, Phila., Pa., & Birmingham, Ala.
Allen Fire Department Supply Co., Providence, R. I.
Anderson, Albert & J. M. Mfg. Co., 287 A. S. B., Boston, Mass.
Brady Brass Co., 204 10th, Jersey City, N. J.
Buckeye Iron & Brass Wks. (Bronze), Dayton, O.
Central City Brass Mfg. Co., 120 Burnet av, Syracuse, N. Y.
Central Union Brass Co., 11th & Mullanphy, St. Louis, Mo.
Columbia Machine Works & Malleable Iron Co., 269 Chestnut, Brooklyn, N. Y.
Dayton Mfg. Co., Dayton, O.
Dunning, Edw. L. Co. ("Smithfield"), 64 Federal, Boston, Mass.
Edna Smelting & Refining Co., 525 Reading rd, Cincinnati, O., & Monadnock blk., Chicago, Ill.
Electric Ry. Equipment Co., 1938 W 8th, Cincinnati, O.
Eureka Tempered Copper Works, North East, Pa., & 141 B'way, N. Y.
Frost's, J. O. Sons, Towanda, Pa.
GENERAL ELECTRIC CO., Schenectady, N. Y., & 44 Broad, New York. (See adv. index & branch offices, end of book)
Hercules Metal Works (Bronze), Catsaqua, Pa.
Johns, H. W.-Manville Co. ("J. M."), 100 William, New York
Lorain Steel Co., Johnstown, Pa., & Lorain, O.
LUMEN BEARING CO. (Ideal), Buffalo, N. Y. (See adv. index, end of book)
McLain, H. E., 141 Federal, Boston, Mass.
Magnus Metal Co., General Office, 830 Ellicott sq, Buffalo, N. Y.
Newell, J. F. & Co., Gardiner, Me.

NUTTALL, R. D. CO., Fayette & Gar-
rison pl, Pittsburg, Pa. (See adv. index,
end of book)
Recording Fare Register Co., New Haven,
Conn.
Star Brass Works, Kalamazoo, Mich.
Wesco Supply Co., 7th & Clark av St. Louis,
Mo.
Western Electrical Supply Co. ("Wesca," Self-
Oiling), 721 Olive, St. Louis, Mo.
WESTINGHOUSE ELECTRIC & MFG.
Co., Pittsburg, Pa. (See adv. index &
branch offices, end of book)
Williams, E. A. & Son, Jersey City, N. J.

Wheels (Truck)

Kilbourne & Jacobs Mfg. Co. (Cast Iron), Co-
lumbus, O.
Parish & Bingham Co., Hamilton S of Coe,
Cleveland, O.

Wheels (Tubular, Steel)

Midgley Mfg. Co. (For Automobiles, Vehicles,
etc.), Columbus, O.

Wheels (Valve)

Lord, L. L. Co. ("Lord-Noburn"), Meadville, Pa.
Stiles, H. A. & Co. (Wood), 176 Federal, Bos-
ton, Mass.
Sawyer Tool Mfg. Co. ("Prouty" Wire), Fitch-
burg, Mass.

Wheels (Well)

Laughlin, Thos. Co. (Anti-Friction), Portland,
Me.
NATIONAL SUPPLY CO., 7 W Lom-
bard, Baltimore, Md. (See adv. index, end
of book)
New London Vise Works (Roller Bushed), New
London, Conn.
Penn Hardware Co., Reading, Pa.
Pleuger & Henger Mfg. Co., 11th & Hebert, St.
Louis, Mo.
Reading Hardware Co., Reading, Pa.
RUMSEY & CO. (Ltd.), ("Rumsey"
Iron), Seneca Falls, N. Y. (See adv. in-
dex & branch offices, end of book)
Susquehanna Casting Co., Wrightsville, Pa.
Weller Hardware & Foundry Co., Horseheads,
N. Y.
Wilcox, Crittenden & Co., Middletown, Conn.
Wrightsville Hardware Co., Wrightsville, Pa.

Wheels (Wire)

Jamesville Mfg. Co., Jamesville, N. Y.
Kirk, Latty Mfg. Co., Cleveland, O.
Lee & Porter (With Channel Irons for Cushion
Rubber Tires), Buchanan, Mich.
Light Mfg. & Foundry Co., Pottstown, Pa.
Neustadt, J. H. Co., 826 S 18th, St. Louis, Mo.
Pneumatic Wheel Co. (Inc.) (Steel), Freehold,
N. J.
Rastetter, Louis & Son, Ft. Wayne, Ind.
Reed & Curtis Machine Screw Co., Worcester,
Mass.
Weston, I. A. Co. (Ball Bearing), Syracuse,
N. Y.
Weston-Mott Co. (Steel Rims), Flint, Mich.

Wheels (Wood)

Archibald Wheel Co., Lawrence, Mass.
Biddle & Smart Co., Ameshury, Mass.
Crane & MacMahon, 8 Bridge, New York
Dickinson Ball Bearing Wheel Co. (With Ball
Bearing Boxes), Little Rock, Ark.
Eames, A. M. & Co., South Framingham, Mass.
Eherly & Orris, Mechanicsburg, Pa.
Hoopes Bro. & Darlington, West Chester, Pa.
Imperial Wheel Co. ("Imperial," "Whale-
hone"), Flint, Mich.
Jamesville Mfg. Co., Jamesville, N. Y.
Jones, Phineas & Co., 6301 Market, Newark,
N. J.
Jones & Burt (Artillery), Utica, N. Y.
Madison Wheel Co., Madison, O.
Meeker Mfg. Co., Dayton, O.
Muncie Wheel & Jobbing Co. ("Bann" Auto),
Muncie, Ind.
New Haven Carriage Co., Water & Franklin,
New Haven, Conn.
Prudden, W. K. & Co., Lansing, Mich.
Salisbury Wheel & Mfg. Co., Jamestown, N. Y.
Schwarz Wheel Co., 135 N 12th, Phila., Pa.
Sendelbach Wheel Co. (Savven Wheels for
Heavy Trucks, etc.), E. St. Louis, Ill.

Standard Wheel Co., Terre Haute, Ind.
Weston-Mott Co., Utica, N. Y.
Wilmington Wheel Co., Wilmington, Del.
Zwick & Greenwald Wheel Co., Dayton, O.

Wheels (Wood Polishing)

Diamond Machine Co., Providence, R. I.

Wheels (Worm)

(See Gears, Worm.)

Wheels & Axles (Ball or Roller Bearing)

American Roller Bearing Co. (Ball & Roller),
S. Framingham, Mass.
Archibald Wheel Co., Lawrence, Mass.
Atlas Car & Mfg. Co., Cleveland, Ohio.
Buchanan Ball Bearing & Dust Proof Axle Co.,
Buchanan, Mich.
Buda Foundry & Mfg. Co. (For Cars, etc.),
Railway Exchange bldg, Chicago, & Harvey,
Case Mfg. Co., Columbus, O.
Concord Axle Co. ("Brown's" Roller Bearing),
Penacook, N. H.
Consolidated Mfg. Co., Toledo, O.
Detroit Screw Works, Detroit, Mich.
Evans, Coppins & Stark Co. (Ball), Princeton,
Ill.
Federal Auto & Wheel Co., Nat. Bank bldg,
Chicago, Ill.
Hutchison Jno. Mfg. Co. (Roller Bearings),
Garford Co., Elyria, O.
Lee & Porter Mfg. Co. (Porter Vehicle), Buch-
anan, Mich.
Meeker Mfg. Co. (Ball Bearing), Dayton, O.
Muncie Wheel & Jobbing Co., Muncie, Ind.
Moffett Vehicle Bearing Co. (Roller), Saginaw,
Mich.
Pneumatic Wheel Co. (Inc.), Freehold, N. J.
Pressed Steel Mfg. Co. (Ball), Bourse bldg.,
Phila, Pa.
Smith, A. O. Co., Milwaukee, Wis
Standard Ball Axle Works, Lancaster, Pa.
Standard Roller Bearing Co., 48th & Girard
av, Phila., Pa.
Star Ball Bearing Axle Co., Princeton, Ill.
Timken Roller Bearing Axle Co. (Roller only,
Vehicle & Automobile), Canton, O.
Webster Mfg. Co., 1075 W 15th, Chicago, Ill.
Weston-Mott Co. (Automobile, Carriage, etc.),
Utica, N. Y.

Whetstones

Deerlick Oil Stone Co., Chagrin Falls, O., &
7 Warren, N. Y.
Pike Mfg. Co., 151 Chambers, New York &
Pike Station, N. H.

Whip Stocks

Harris Mfg. Co. (Wood), Johnson City, Tenn.

*Whims (Horse)

ALLIS-CHALMERS CO., Milwaukee,
Wis. (See adv. index & branch offices, end
of hook)

*Whistles

Buckeye Iron & Brass Works, Dayton, O.
LUNKENHEIMER CO. ("Mocking
Bird" Fire Alarm), General Offices & Works,
Beekman & Waverly, Cincinnati, O. (See
adv. index & branch offices, end of book)
WILLIAMS, D. S. VALVE CO., 904
B'way, Cincinnati, O. (See adv. index, end
of book)

Whistles (Air)

Buckeye Iron & Brass Wks., Dayton, O.
LUNKENHEIMER CO., General Of-
fices & Works, Beekman & Waverly, Cin-
cinnati, O. (See adv. index & branch of-
fices, end of book)

Whistles (Automobile & Motor Boat)

(See also Horns, Automobile; also Horns, Fog.)
Chase Machine Co., 111 Elm, Cleveland, O.
City Machine & Mfg. Co., 90 Orchard, Detroit,
Mich.

Durkee, C. D. & Co. (Motor Boat), 2 South,
New York
Edmonds & Jones Mfg. Co. (Motor Boat), 313
Riopelle, Detroit, Mich.
Gas Engine Whistle Co., 1133 B'way, New
York
Gray-Hawley Mfg. Co., 605 Fort av, Detroit,
Mich.
Mossherg Wrench Co., Central Falls, R. I.
Shihley & Pitman ("Tritone"), 26 Warren,
New York
Sterk Mfg. Co., 69 Wells, Chicago, Ill.

Whistles (Chime)

American Steam Gauge & Valve Mfg. Co., 203
Camden, Boston, Mass.
Buckeye Iron & Brass Works, Dayton, O.
Crane Co. (Est. 1855), 519 S Canal, Chicago, Ill.
(See adv. index & branch offices, end of book)
CROSBY STEAM GAGE & VALVE CO., 95
Oliver, Boston, Mass., & 16 Dey, New York.
(See adv. index, end of book)
Eastwood Wire Mfg. Co. ("Eastwood" Single
Bell), Belleville, N. J.
Fewlass Leen Brass & Iron Works, 456 E 2d,
Cincinnati, O.
Kingsley Mfg. Co., 40 South av, Bridgeport,
Conn.
Lonergan, J. E. Co. (Single & Three Bell,
etc.), 211 Race, Phila., Pa.
LUNKENHEIMER CO. (Single Bell,
Three Whistles, etc.), General Offices &
Works, Beekman & Waverly, Cincinnati, O.
(See adv. index & branch offices, end of book)
Powell, Wm. Co., 2529 Spring Grove av, Cin-
cinnati, O.
Queen City Brass & Iron Works (Single Bell),
Cincinnati, O.
SCHAEFFER & BUDENBERG MFG. CO.,
Foxboro, Mass. (See adv. index & branch
offices, end of hook)
STANDARD GAUGE MFG. CO., Syra-
cuse, N. Y. (See adv. index & branch
offices, end of hook)
Star Brass Mfg. Co., 103 E Dedham, Boston,
Mass.
Thomas Brass & Iron Co., Waukegan, Ill.

Whistles (Conductors' & Starters')

Woodman R., Railway Supply Co., 63 Oliver,
Boston, Mass.

*Whistles (Fire Alarm)

SCHAEFFER & BUDENBERG MFG.
Co., Foxboro, Mass. (See adv. index &
branch offices, end of book)

*Whistles for Fog, Factory & Fire Signals

BROWN, A. & F. CO., 25 Dey, New
York. Works, Elizabethport, N. J. (See
adv. index, end of book)

Whistles (Steam)

American Steam Gauge & Valve Mfg. Co., 203
Camden, Boston, Mass.
Ashton Valve Co., 271 Franklin, Boston, Mass.
Belfield, H. & Co., 435 N Broad, Phila., Pa.
Buckeye Iron & Brass Works, Dayton, O.
Central Brass Works, 322 W Pearl, Cincinnati,
Ohio
Crane Co. (Est. 1855), 519 S Canal, Chicago, Ill.
(See adv. index & branch offices, end of hook)
CROSBY STEAM GAGE & VALVE CO., 95
Oliver, Boston, Mass., & 16 Dey, New York.
(See adv. index, end of book)
Detroit Shipbuilding Co. (Brass Dept.), Detroit,
Mich.
Eastwood Wire Mfg. Co. ("Eastwood" Plain &
Single Bell), Belleville, N. J.
Eaton, Cole & Burnham Co., Bridgeport, Conn.
Farnan Brass Works, 25 Center, Cleveland, O.
Garratt, W. T. & Co., 142 Fremont, San Fran-
cisco, Cal.
Haydenville Co., Haydenville, Mass.
Hays Mfg. Co., Erie, Pa.
Jarecki Mfg. Co., Erie, Pa., & Pittsburg, Pa.
Kelly & Jones Co., 135 Water, Pittsburg, Pa.
Kinsley Mfg. Co. (Single Bell Chime), 20 South
av, Bridgeport, Conn.
Lonergan, J. E. & Co., 211 Race, Phila., Pa.
LUNKENHEIMER CO., General Of-
fices, Beekman & Waverly, Cincinnati, O.
(See adv. index & branch offices, end of hook)

McNab & Harlin Mfg. Co., 56 John, New York, & Paterson, N. J.
 Nelson, Chas., 439 E 10th, New York
 Ohio Brass Co., Mansfield, O.
 Pittsburg Brass Mfg. Co., 107 Wood, Pittsburg, Pa.
 Powell, Wm., Co., 2529 Spring Grove av, Cincinnati, O.
 Queen City Brass & Iron Works, Spring Grove av & Garrard, Cincinnati, O.
 Register's, J. Sons Co., Holliday & Saratoga, Baltimore, Md.
SCHAEFFER & BUDENBERG MFG. CO., Foxboro, Mass. (See adv. index & branch offices, end of book)
 Scott Valve Co., 231 Randolph, Chicago, Ill.
 Sherwood Mfg. Co., Buffalo, N. Y.
 Springfield Brass Co., Springfield, O.
STANDARD GAUGE MFG. CO., Syracuse, N. Y. (See adv. index & branch offices, end of book)
 Star Brass Mfg. Co., 108 Dedham, Boston, Mass.
 Swift Lubricator Co., Elmira, N. Y.
 Thomas Brass & Iron Co., Waukegan, Ill.
 Union Water Meter Co., Worcester, Mass.
 Walworth Mfg. Co., 132 Federal, Boston, Mass.
WILLIAMS, D. T. VALVE CO., 904 B'way, Cincinnati, O. (See adv. index, end of book)

White Lead Kegs (Steel)

American Can Co., 44 W 14th, New York

White Lead (Sublimed)

Pitcher Lead Co. (Sole Mfrs.), Western Union bldg., Chicago & 100 William, N. Y.

White Metal

(See Castings, White Metal)

White & Red Lead Mfrs.

Anchor White Lead Works, 7th & Freeman av., Cincinnati, O.
 Behder & Alldred (Red Only), Sharpsburg, Pa.
 Boston Lead Mfg. Co., 162 Congress, Boston, Mass.
 Carter White Lead Co., W 121st & S Peoria, Chicago, Ill.; Omaha, Neb.
 Cawley, Clark & Co., Newark, N. J.
 Chadwick-Boston Lead Co. (Dry & in Oil), Boston, Mass.
 Collier White Lead & Oil Works, 1001 Clark av., St. Louis, Mo.
 Davis Lead Co. (White Lead Only), Park bldg., Pittsburg, Pa.
 Detroit White Lead Works, 532 Milwaukee av, Detroit, Mich.
 Eagle White Lead Co., 1022 B'way, Cincinnati, O.
 Enterprise Paint Mfg. Co. ("Iron Clad" White Lead), 225 W Van Buren, Chicago, Ill.
FRENCH, SAMUEL H. & CO., 4th & Callowhill, Phila., Pa. (See adv. index, end of book)
 Fuller, W. P. & Co., San Francisco, Cal.
 Hammar Bros. White Lead Co., St. Louis, Mo.
 Harrison Bros. & Co., 35th & Gray's Ferry rd., Phila., Pa.
 Lewis, John T. & Bro. Co., 231 S Front, Phila., Pa.
 Matheson, Wm. J. & Co. (Ltd.), 182 Front, N. Y.
 National Lead Co. (Atlantic Branch), 100 William, N. Y.
 National Lead & Oil Co. (of Pennsylvania), 2d Nat. Bank bldg., Pittsburg, Pa.
 Nevin, T. H. Co., c Island & Preble avs, Allegheny, Pa.
 Phillips & Ferguson, 78 9th, Bklyn, N. Y.
 Pitcher Lead Co., Tacoma bldg, Chicago, Ill.
 St. Louis Lead & Oil Works Co., 1001 Clark av, St. Louis, Mo.
 Shipman, D. B. White Lead Works, 1510 State, Chicago, Ill.
 Southern White Lead Co., 121 Lombard, St. Louis, Mo., & 1510 State, Chicago, Ill.
 Tatham & Bros., 223 S 5th, Phila., Pa., & 82 Beekman, N. Y.
 United Lead Co., 71 B'way, N. Y.
 Wetherill & Bro., 126 S 30th, Phila., Pa.

*Whitewash (Antiseptic)

GROSCHKE, BRUNO & CO., 30 Old Slip, New York (See adv. index, end of book)

Whiting Mfrs.

American Whiting & Putty Mfg. Co., 200 Water, N. Y.
 Dunham, Thos. C., 68 Murray, N. Y.
 Fox, M. E. & Co., 462 E 136th, New York
 Grote, Geo. W. & Co., 432 E 102d, New York East St. Louis, Ill.
 Hammill & Gillespie, 240 Front, N. Y.
 Hlggiuson Mfg. Co., Newburg, N. Y.
 Kelley Bros. & Spielman (Inc.), Swanson & Moore, Phila., Pa.
 Knappman, Wm. & Co., 31 Nassau, New York
 Nulsen, Klein & Krausce Mfg. Co., St. Louis, Mo.
 Mephram, Geo. S. & Co., 20th & Lynch av, East St. Louis, Ill.
 Nevins, Sam'l Co., 109 S 2d, Phila., Pa.
 Philadelphia Whiting Works, 2609 E York, Phila., Pa.
 Phillips, Jno. B. Mfg. Co., 78 9th, Brooklyn, N. Y.
 Southwark Mfg. Co., Miffin & Swanson, Phila., Pa.
 Taintor, H. F. Mfg. Co., 200 Water, New York
 Whitaker, W. H., 245 Front, N. Y.

*Wickets

CINCINNATI MFG. CO., 1243 W 6th, Cincinnati, O. (See adv. index, end of book)
CITY FORGE & IRON WORKS, (Andrew Plocher, Prop.), Dayton, O. (See adv. index, end of book)
SMITH, F. P. WIRE & IRON WORKS, 100 Lake, Chicago, Ill. (See adv. index, end of book)
TYLER, W. S. CO. (Ornamental), Cleveland, O., & 11 B'way, New York. (See adv. index, end of book)
WRIGHT WIRE CO. (All Metals & Finisbers), Worcester, Mass. (See adv. index & branch offices, end of book)

Wicks (Lamp, Etc.)

American Tubing Co. (Stove Wicks, Etc.), Providence, R. I.
 Ansonia, O. & C. Co. (Lamp), Ansonia, Conn.
 Bowden, Anthony, Cedar Grove, N. J.
 Cleveland Cotton Mills (Inc.), Cleveland Mills, N. C.
 Collins, G. S. (Lamp, Stove, Candle, etc.), Central Village, Conn.
 Consolidated Cotton Duck Co. (& Stove, etc.), Baltimore, Md.
 Devon Mills (George S. Browne, Prop.), Providence, R. I.
 Estes Mills, Inc., Fall River, Mass.
 Fletcher Mfg. Co. (Lamp, Cotton Ball, Miners', Stove, etc.), 72 Leonard, New York.
 Hooper, Wm. E. & Sons (Lamp, Cotton Ball, Candle, etc.), Baltimore, Md.
 January & Wood Co. (Cotton Wicks, etc.), Maysville, Ky.
 Lees Mfg. Co. (Lamp, Candle, Miners', Cotton Ball, etc.), 320 B'way, New York.
 McClintock & Irvine Co. (Torch), Neville & P. R. R., Pittsburg, Pa.
 Massasoit Mfg. Co., Fall River, Mass.
 New Jersey Wick Co. (Lamp, Stove, etc.), Newark, N. J.
 Rochard, F. J. (Torch Wicks, Etc.), South Hadley Falls, Mass.
 Sun Mills Mfg. Co., Fitchburg, Mass.
 Textile Mfg. Co., Rockingham, N. C.
 Westport Mfg. Co., Fall River, Mass.

*Willson Office & Loft Directories (Changeable)

TABLET & TICKET CO., 87 Franklin, Chicago, Ill., 381 B'way, New York, N. Y. (See adv. index, end of book)

*Winches (Electric)

LIDGERWOOD MFG. CO. (Steam & Electric), 96 Liberty, New York, & Old Colony bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
SPRAGUE ELECTRIC CO. (For Hoisting Purposes), 527 W 34th, New York. (See adv. index & branch offices, end of book)

Winches & Windlasses

ACME ROAD MACHINERY CO., Frankfort, N. Y. (See adv. index, end of book)
AMERICAN HOIST & DERRICK CO., St. Paul, Minn. (See adv. index & branch offices, end of book)
 American Ship Windlass Co. (Hand, Steam & Electric Gypsy & Yacht Windlasses), Providence, R. I.
 Boggs & Clarke (Changeable Adjustable Winches), Syracuse, N. Y.
 Box, Alfred & Co. (Ship & Yacht Windlasses), 813 N Front, Phila., Pa.
BROWN HOISTING MACHINERY CO. (Winches Only), St. Clair, N. E., Cleveland, O., & 26 Cortlandt, N. Y. (See adv. index, end of book)
 Carlin's, Thos. & Sons Co. Windlasses Only), 1300 River av, Allegheny, Pa.
CARPENTER, GEO. B. & CO., 202 S Water, Chicago, Ill. (See adv. index, end of book)
 Chase Machine Co., 111 Elm, Cleveland, O.
 Contractors' Plant Mfg. Co., 129 Erie, Buffalo, N. Y.
 Dake Engine Co. (Steam Windlasses), Grand Haven, Mich.
DOBBIE FOUNDRY & MACHINE CO., Niagara Falls, N. Y. (See adv. index & branch offices, end of book)
 Edson Mfg. Co., 257 Atlantic av, Boston, Mass.
GENERAL ELECTRIC CO. (Electric Deck), Schenectady, N. Y., & 44 Broad, New York. (See adv. index & branch offices, end of book)
 Harvey, H. H. (For Quarries), 608 Atlantic av, Boston, Mass.
 Helmick Foundry & Machine Co., Fairmont, W. Va.
 Hoist Co., 20 S William, New York
 Hyde Windlass Co., Bath, Me.
 Irving Mfg. & Tool Co. (J. F. McCoy Co., Prop.), (Cargo Winches), 159 Chambers, New York.
 Klemm, E. R., 103 W Monroe, Chicago, Ill.
 Langhlin, Thos. Co. (Windlasses Only), Portland, Me.
LIDGERWOOD MFG. CO. (Steam & Electric), 96 Liberty, New York, & Old Colony bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
 Marine Hardware Co. (Hand), Peabody, Mass.
 Marine Mfg. & Supply Co., 158 South, N. Y.
 Mine & Smelter Supply Co. (Winches Only), Denver, Colo., & 42 B'way, N. Y.
 Parker Hoist & Machine Co., 971 N Francisco av, Chicago, Ill.
 Pollock, Alex. Co., 203 West, N. Y.
 Round, D. & Son, 2287 B'way, Cleveland, O.
 Scaife Foundry & Machine Co., 28th & Smallman, Pittsburg, Pa.
 South Baltimore Steel Car & Foundry Co. ("Derrick"), Baltimore, Md., & 66 Beaver, N. Y.
TERRY & TENCH CO. (Inc.) (Wood Frame Winches), Lexington av & 131st, New York, N. Y. (See adv. index, end of book)
 Textile Finishing Machinery Co. (Steam Steerer, etc.), Providence, R. I.
 Union Elevator & Machine Co. (Windlasses Only), 144 Ontario, Chicago, Ill.
 Vulcan Iron Works, Fulton & Irving av, Chicago, Ill.
 Wilcox, Crittenden & Co. (Windlasses), Middletown, Conn.

Winders (Magnet)

A. & C. Mfg. Co., Cleveland, O.
 Anderson, Homer, Peekskill, N. Y.

Windlasses

(See Winches & Windlasses.)

Windlasses (Arc Lamp)

Brady, T. H., New Britain, Conn.
 Cutter, Geo. Co., 129 Fulton, Chicago, Ill.
 Fletcher Mfg. Co., Dayton, O.
 Western Electric Co., 259 S Clinton, Chicago, & 57 Bethune, N. Y.

Windmills

Aera Mfg. Co., Henry, Ill.
 Aeromotor Co. ("Aeromotor"), Campbell av, nr 12th, Chicago, Ill.
 Anderson Malleable Iron & Mfg. Co., Works, Anderson, Ind.

Althouse, Wheeler & Co. (Wood or Steel Wheel Pumping, also Geared Wood Wheel), Waukegan, Ill.
 Appleton Mfg. Co., Batavia, Ill.
 Bagley Co., Ellicott Sq., Buffalo, N. Y.
 Baltimore Cooperage Co., Baltimore, Md.
 Banks, T. & Son, Burlington, Wis.
 Baker Mfg. Co. ("Monitor"), Evansville, Wis.
 Batavia Wind Mill Co. (Wood), Batavia, Ill.
 Beckman Bros., Des Moines, Ia.
 Benjamin, O. P. Mfg. Co., Indianapolis, Ind.
 Butler Co. (Steel & Wood), Butler, Ind.
CALDWELL, W. E. CO., Louisville, Ky. (See adv. index, end of book)
 California Windmill Co., Somonauk, Ill.
 Carroll Iron Works (C. L. Bowes, Prop.), 719 Carroll av., Chicago, Ill.
 Carter Wind Mill & Tank Co., Des Moines, Ia.
 Challenge Co., Batavia, Ill.
 Chandler Pump Co., Cedar Rapids, Ia.
 Church, Stephen B., Seymour, Conn., & High St., Boston, Mass.
 Clay Center Windmill & Fdry. Co., Clay center, Kan.
 Colton, G. D. & Co., Galesburg, Ill.
CORCORAN, A. J., Inc., 11 John, New York, Works: Jersey City, N. J. (See adv. index, end of book)
 Crane Co. (Est. 1855), 519 S. Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
 Deere Implement Co., 209 Market, San Francisco, Cal.
 Dempster Mfg. Co., Des Moines, Ia.
 Dempster Mill Mfg. Co., Beatrice, Neb.
 Dnplex Mfg. Co., Superior, Wis.
 Elgin Wind Power & Pump Co., Elgin, Ill.
 Enterprise Wind Mill Co., Sandwich, Ill.
FAIRBANKS, MORSE & CO., ("Eclipse" Fairbank's), Franklin & Monroe, Chicago, Ill. (See adv. index & branch offices, end of book)
 Fairbury Wind Mill Co., Fairbury, Neb.
 Ferguson Wind Mill & Pump Co., Waterloo, Ia.
 Fleming & Sons, Portland, Ind.
 Flint & Walling Mfg. Co. (Star), Kendallville, Ind.
 Fort Wayne Windmill Co., Fort Wayne, Ind.
 Freeland Mfg. Co., Niles, Mich.
 Freeman, S. & Sons Mfg. Co., Racine, Wis.
 Genoa Mfg. Co., Genoa, O.
 Goodhue Rotary Grinder Co., St. Charles, Ill.
 Great Northern Mfg. & Supply Co., Atchison, Kan.
 Heller, Aller & Co., Napoleon, O.
 Horicon Wind Mill Co. (Steel), Horicon, Wis.
 Howe Engine Co., Indianapolis, Ind.
 Iowa Windmill & Pump Co., Cedar Rapids, Ia.
 Jackson, Byron Machine Works, 411 Market, San Francisco, Cal.
KEWANEE WATER SUPPLY CO., Kewanee, Ill. (See adv. index, end of book)
 Kalamazoo Tank & Silo Co., Kalamazoo, Mich.
 Kregel, G. F., Nebraska City, Neb.
 Lamb & Co. ("Zenith"), Freeport, Ill.
 Leach Windmill Co., Joliet, Ill.
 Lowell Windmill Mfg. Co., Salina, Kan.
 McDaniel & Son, Litchfield, Ill.
 Marcy, R. G. Mfg. Co., Bluffton, Ind.
 Marseilles Mfg. Co., Marseilles, Ill.
 Mast, Foos & Co. ("Imperial" Iron Turbine, etc.), Springfield, O.
 Meud's Windmill & Pump Co., Lansing, Mich.
 May Bros., Galesburg, Ill.
 Medina Mfg. Co., Medina, O.
 Mt. Pulaski Windmill Co., Mt. Pulaski, Ill.
 National Engineering Co., Saginaw, Mich.
 New Doty Mfg. Co., Jansville, Wis.
 Northwestern Wind Engine Co., 110 3d av., Minneapolis, Minn.

Pacific Pump & Windmill Co., San Francisco, Cal., & Santa Clara, Cal.
 Perkins Windmill Co., Mishawaka, Ind.
 Peters Pump Co., Kewanee, Ill.
 Phelps, I. E., Wahoo, Neb.
 Phelps & Bigelow Windmill Co., Kalamazoo, Mich.
 Powers Mfg. Co., Clarinda, Iowa
 Reese, Jno., Florin, Cal.
 Rose, F. M. & Son (Steel Star), 222 San Pablo av., Oakland, Cal.
 Ross Supply Co. ("Rex"), Greenville, O.
 Schlichter, E. F., 1910 Market, Phila., Pa.
 Schmidt, Geo., East Williston, N. Y.
 Sharp Mfg. Co., Albert Lea, Minn.
 Sharples Co., Chicago
 Smith & Pomeroy, Wind Mill Co. ("Eureka"), Kalamazoo, Mich.
 Snow Mfg. Co. ("Decorah," Steel & Wood), Batavia, Ill.
 Southern Rock Island Plow Co., Dallas, Tex.
 Squier, Geo. L., Mfg. Co., 420 Niagara, Buffalo, N. Y.
 Standard Mfg. Co., Galesburg, Mich.
 Stover Mfg. Co. (Iron, etc.), Freeport, Ill.
 Superior Co., Streator, Ill.
 Shurtleff Co., Marengo, Ill.
 Stehn Mfg., Sheboygan, Wis.
 Sydnor Pump & Well Co., Richmond, Va.
 Tanner, D. F., Holland, N. Y.
 Temple Pump Co. ("Diamond"), 15th pl., Chicago, Ill.
 United Pump & Power Co. (Steel), Old Colony bldg., Chicago, Ill.
 U. S. Supply Co., Omaha, Neb.
 U. S. Water & Steam Supply Co., Kansas City, Mo.
 U. S. Wind Engine & Pump Co., Batavia, Ill.
 Vail & Smith, Weston, Mich.
 Wallace, Amos, Marengo, Ill.
 Walterschied Bros., Wichita, Kan.
 Waterloo Pump Co., Waterloo, Iowa.
 Wells, H. B. & Son, Ithica, Mich.
 Winship Mfg. Co., Racine, Wis.
 Winter, F. W. & Co., Faribault, Minn.
 Wolcott Windmill Co., Saginaw, Mich.
 Woodin & Little, 312 Market, San Francisco, Cal.
 Woodmanse Mfg. Co. (Steel, Wooden & Power, etc.), Freeport, Ill.
 Wright, Charles A., Atchison, Kan.
 Zimmerman Mfg. Co., Auburn, Ind.

Window Blind Adjusters

Columbian Hardware Co., Coe & Hamilton, Cleveland, O.
 Greene, Tweed & Co. ("Empire" Blind & Transom), 109 Duane, New York
 New York Blind & Transom Adjuster Co., 71 B'way, N. Y.
 Russell & Erwin Mfg. Co., New Britain, Conn., & 43 Chambers, N. Y.
 Wire Goods Co., Worcester, Mass.

*Window Brackets (Clothes Line)

OVICI, S. I. & CO. (Sole Agents) ("O. V. C."), 401 B'way, New York. (See insert opp. page 232)

Window Cleaning Appliances & Guards

Orr & Locket Hdw. Co. (Simpkins' Safety Belt & Skidmore's Adjustable Balcony), 71 Randolph, Chicago, Ill.
PERFECT SAFETY WINDOW Guard, Flat Iron bldg., New York, N. Y. (See adv. below)
 Smith, F. H. Mfg. Co., 52 St. John's Ct., Chicago, Ill.

Window Display Fixtures

American Brass Fixture Works (Brass & Nickel Plated), 8 Howard, New York
 Barlow Mfg. Co. (Wax Figures, Show Cases, Papier Mache Forms), Holyoke, Mass.
 Belle-Hickey Mfg. Co., St. Louis, Mo.
 Burgess, E. A. (Est. of), New Haven, Conn.
 Farles Mfg. Co. ("Eiffel Tower," Revolving), Decatur, Ill.
 Gas Fixture & Brass Co., Cleveland, O.
 Great Western Fixture Works, 195 Fifth av., Chicago, Ill.
 Heilmann, Morris A. Mfg. Co., St. Louis, Mo.
 Judd, H. L. Co., 87 Chambers, New York
 Lyons, Hugh & Co., Lansing, Mich.
 Multiplex Display Fixture Co., St. Louis, Mo.
 Newman-Kuhn Mfg. Co., Cincinnati, O.
 Norwich Nickel & Brass Co., Norwich, Conn. (Also Wax Figures)
 Standard Mfg. Co., Xenia, O.
 Weston Paper & Mfg. Co. (also store), Dayton, O.

*Window Frame & Sash (Fire-proof)

(See also Window Frame & Sash, Metallic)

MULLINS, W. H. CO., Salem, O. (See adv. index, end of book)

Window Frame & Sash (Metallic)

Aitken & Watson, 304 W Van Buren, Chicago, Ill.
 Allegheny Cornice & Skylight Co., Allegheny, Pa.
BADGER, E. B. & SONS CO., 75 Pitts, Boston, Mass. (See adv. on following page)
BERGER MFG. CO., Canton, Ohio. (See adv. index & branch offices, end of book)
 Beseman & Bostwick, Hartford, Conn.
 Biersach & Niedermeyer, 216 5th av., Milwaukee, Wis.
 Blanchard, J. F. Co., Fuller bldg., New York, N. Y.
 Bonar, Jas. & Co., Frick bldg., Pittsburgh, Pa.
CLASON ARCHITECTURAL METAL Works, 428 Kinsley av., Providence, R. I. (See adv. index, end of book)
 Consolidated Sheet Metal Works, 661 Hubbard, Milwaukee, Wis.
 Cushing, Daniel & Co., Lowell, Mass.
DAHLSTROM METALLIC DOOR CO., Jamestown, N. Y., & 299 B'way, New York. (See adv. index, end of book)
EDWARDS MFG. CO., Eggleston av., 4th & 5th, Cincinnati, O. (See adv. index & branch offices, end of book)
ELLER MFG. CO., Canton, O. (See adv. index, end of book)
 Harris, Clayton, Providence, R. I.
HAYES, GEO. CO., 71 8th av., New York. (See adv. index, end of book)
 Farwell Cornice Co., 145 La Salle, Chicago.
FIRE-PROOF DOOR CO. ("Richardson's"), 401 12th av., Minneapolis, Minn. (See adv. index & branch offices, end of book)
 Hecla Iron Works, 118 N 11th, Brooklyn, N. Y.
 Herrmann & Grace, 611 Bergen, Brooklyn, N. Y.
 Hicks, S. D. & Sons, 9 Bowker, Boston, Mass.
 Illinois Roofing & Cornice Co., 124 N Curtis, Chicago, Ill.
 Kelghley, S. Metal Ceiling & Mfg. Co. ("Phoenix"), 824 Locust, Pittsburg, Pa.
 Klauer Mfg. Co., Dubuque, Ia.
 Kirk, W. P. Co., Bridgeport, Conn.
 Knelsely Bros., 28th pl & 5th av., Chicago, Ill.

THE PERFECT SAFETY WINDOW GUARD

Patented
Jan. 20, 1903

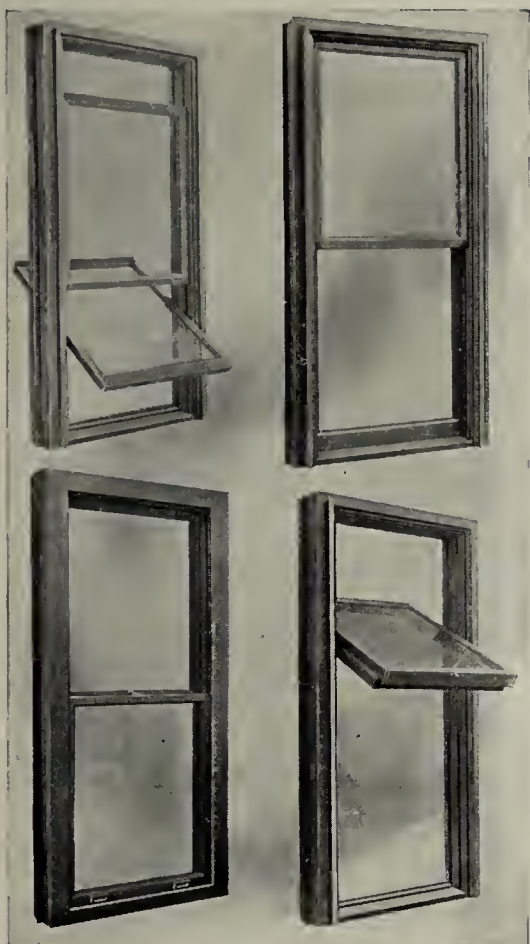
FLAT IRON BUILDING, NEW YORK

SECURITY AGAINST ACCIDENT ON OUTSIDE WINDOW CLEANING

The latest improvement in WINDOW BELTS. Endorsed by leading Architects. Will hold over 5000 lbs. by actual tests. Clip strap lined with metal strip, insuring strength. Semi-globe head bolt. Terminal has knuckle joint, direct bearing in any position. Locks automatically and cannot become disengaged until removed by operator.

ANCHOR BOLTS made to order, to place in Reveal of Brick, Stone, Terra Cotta, etc., during construction of building. Now in use in prominent buildings.





Mullins Fireproof Metal Window

is absolutely fireproof and does what no other window can do—it stands every test.

ASK FOR OUR PRICES

Write for our illustrated catalogue. We solicit correspondence and inquiries from interested parties.

Sheet Bronze and Copper Statuary. Skylights. Cornices. Cresting. Metal Tile Roofing. Finials. We make special designs following Architect's drawings.

Catalogue and full information on request.

The W. H. MULLINS COMPANY
341 FRANKLIN STREET, SALEM, OHIO

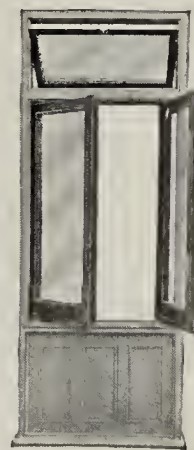
TABOR'S REVOLVING SASH

MANUFACTURERS OF

TABOR'S PATENT STRIPS AND FIXTURES FOR SLIDING, REVOLVING, REMOVABLE, VERTICAL, STATIONARY PIVOTED AND FRENCH CASEMENT SASH.

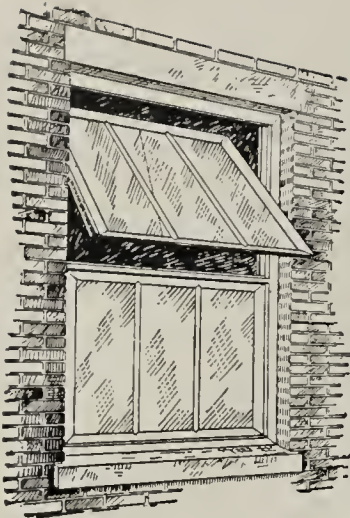
600,000 Installed during the past 6 years.

ALSO TABOR'S PATENT METAL WEATHER STRIPS FOR WINDOWS.



During the Last Six Years we have Equipped over 350 Public Schools with the Tabor Sash.

TABOR SASH CO., MAIN OFFICE AND FACTORY, **NEWARK, N. J.**
61-71 POLK STREET,



J. C. McFARLAND & CO., CHICAGO.

Metal Window Frames and Sash [Wire Glass]
Sashes, Double Hung or Sliding, Revolving or Pivoted

ACCEPTED AND APPROVED BY UNDERWRITERS.

27th Street and 5th Avenue.

WRITE FOR NEW CATALOGUE.



FIRE PROOF WINDOWS

HOLLOW SHEET METAL FRAMES AND SASHES
PIVOTED OR DOUBLE HUNG

GLAZED WITH WIRE GLASS

Skylights

Cornices

Steel Ceilings

EASTLAKE METAL SHINGLES FOR ROOFING

The W. J. BURTON CO.,

160 to 164 West Larned Street,
DETROIT, MICH.



J. S. THORN COMPANY

Patent Galvanized Iron and Copper Window Frames
and Sashes with Wire Glass.

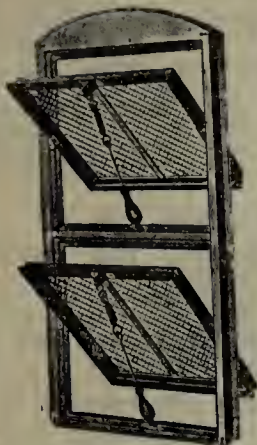
Endorsed by Fire Insurance Underwriters.

Architectural Sheet Metal Work, Skylights and Fixtures for
Opening Ventilating Sashes.

20th and Allegheny Ave.

PHILADELPHIA, PA.

WRITE FOR CATALOGUES.



Fire-Proof Windows

Frames and Sash made of Sheet Metal, glazed with wire glass, accepted by the National Board of Underwriters
SLATE, TILE, METAL ROOFING, SKYLIGHTS, ETC.

HARRY C. KNISELY CO.,

273-275 So. Canal Street,

CHICAGO.

KNISELY, H. C. CO., 273 S Canal,
Chicago, Ill. (See adv. at top of this page)
Lee, Thos. (Automatic Closing & Sliding Sash),
Cincinnati, O.

Leonard Sheet Metal Works (Inc.) ("Leonard"
Combined Sliding & Revolving Sashes),
219 Grand, Hoboken, N. J.

Lupton's, David Sons Co., Allegheny av &
Tulip, Phila., Pa.

McFARLAND, J. C. & CO., 27th & 5th
av, Chicago, Ill., & 235 B'way, New York.
(See adv. index, end of book)

Mackwirth Bros. Co., 201 Oak, Buffalo, N. Y.
Meade Roofing & Cornice Co., 46th & Wood-
land av, Phila., Pa.

Metallie Mfg. Co., 110 Erie, Camden, N. J.
Miller, J. A. & Bro., 136 S Clinton, Chicago, Ill.

MILWAUKEE ARTISTIC METAL
Ceiling Co., Milwaukee, Wis.
National Sheet Metal Wks., 673 Lanabee, Chi-
cago, Ill.

Newark Cornice & Skylight Works (Automatic),
Ohio Roofing Co., Cleveland, O. Newark, N. J.
Pruden, C. D. Co. (Metallie), Builders' Ex-
change, Baltimore, Md.

RAPP, JNO. W. (Metal Covered, All
Kinds), Gen'l Office & Wks., College Point,
N. Y. City & Sales Office, 4 Madison av,
N. Y. City. (See adv. index, end of book)

Rasner & Dinger Co., Pittsburg, Pa.
Rendle, Arthur E., 18 W. 34th, New York

Ritzler, J. A. Cornice & Ornament Co., Kan-
sas City, Mo.

Rudolph & Son Co., Cleveland, O.
SCHOLLES BROS., 1241 Rebecca, Al-
legheny, Pa. (See adv. index, end of book)

St. Paul Roofing, Cornice & Ornament Co., St.
Paul, Minn., & Baltimore, Md.

Smith-Warren Co. (Automatic Fireproof), Bos-
ton, Mass.

Sykes Steel Roofing Co., 112 W 19th pl, Chi-
cago, Ill.

THORN, J. S. CO., 20th & Allegheny
av, Phila., Pa. (See adv. index, end of
book)

VOIGTMANN & CO., 42-54 E. Erie,
Chicago, Ill.; 430 W. 14th & 427 W. 13th,
New York. See adv. on following page)

Von der Au & Cluss Mfg. Co., 2404 S. Jefferson
av, St. Louis, Mo.

Weis, Henry Cornice Co., Kansas City, Mo.
Weyand, Hy. Co. (Inc.), Waterbury, Conn.

WISCONSIN IRON & WIRE WORKS,
190 E. Water, Milwaukee, Wis. (See adv.
index, end of book)

White, Jas. Co., 448 Adelphi, Brooklyn, N. Y.
Witt Cornice Co., 8th & B'way, Cincinnati, O.

Wulff, W. C. & Co., 603 E. Jeff'n, Louisville,
Ky.

Zabner Mfg. Co., Kansas City, Mo.

Window Frame & Sash (Wrought Steel)

AMOS, CHAS. & CO., 94 W. Larned,
Detroit, Mich. (See adv. index, end of book)

Mesker, Geo. L. & Co., Evansville, Ind.
Schreiber, L. & Sons Co., 8th & Eggleston av,
Cincinnati, O.

Streeter, H. A., Prop. Globe Iron Works.
(Streeter's Patent), 35 to 41 Indiana, Chi-
cago, Ill.

Van Dorn Iron Works Co., Cleveland, O.
WISCONSIN IRON & WIRE WORKS,
190 E. Water, Milwaukee, Wis. (See adv.
index, end of book)

*Window Frames (Iron, for Power Houses, Factories, Etc.)

Haase, G. J., 142 Centre, New York
WISCONSIN IRON & WIRE WORKS,
190 E. Water, Milwaukee, Wis. (See adv.
index, end of book)

Window Guards

(See Wire Workers; also Wire Fences & Gates;
Grilles, Wrought Iron; also Iron, Architect-
ural & Ornamental; also Bank & Office
Railings.)

*Window Guards (Bronze & Iron)

JACKSON, WM. H. CO., 29 E. 17th.
(Union Sq.), New York. (See adv. index, end
of book)

*Window Guards (Pitt-Bostwick Patents)

PITT, WM. R., COMPOSITE IRON
Works. (Folding & Stationary), 136-138 W
24th, New York. (See adv. index, end of
book)

Window Locks (Ventilating)

Burdett-Rountree Mfg. Co. (By compressed air),
85 W. Jackson boul., Chicago, Ill., 147 W.
26th st., New York City
Dearborn Hardware Co., 488 Carroll av, Chi-
cago, Ill.

DROUVE, G. CO. ("LoveIt"), 40 Tulip,
Bridgeport, Conn. (See adv. index, end of
book)

Window Operating Devices

Austral Window Balance Co., Times bldg, New
York
DROUVE, G. CO. ("LoveIt"), 40 Tulip,
Bridgeport, Conn. (See adv. index, end of
book)

Window Sash Holder (Auto- matic)

Automatic Sash Holder Co., 277 B'way, New
York

Window Sash Pivots

Essig, Pivot Window Co. ("Essig"), 541 Wood,
Pittsburg, Pa.
Steiner & Voegtly ("Glesey's"), Pittsburg, Pa.
TABOR SASH CO. ("Tabor"), 69 Polk,
Newark, N. J. (See adv. index & branch of-
fices, end of book)

ESTABLISHED 1841

E. B. BADGER & SONS COMPANY METAL FIREPROOF WINDOW FRAMES & SASH

Approved by the Boston Board of Fire
Underwriters, and made under the speci-
fication of The National Laboratories.

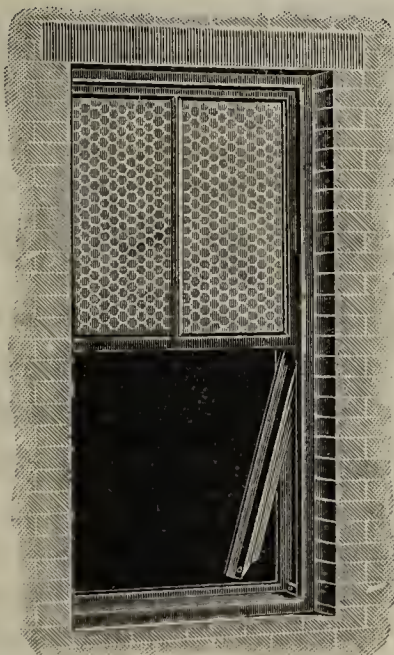
PRICES QUOTED ON APPLICATION.

BADGER'S FIRE EXTINGUISHER

Bearing the label of the
Underwriters' Laboratories

63-75 PITTS STREET . BOSTON, MASS., U. S. A.

TELEPHONE EXCHANGE, HAYMARKET 2152



Window Sash (Reversible)

BADGER, E. B. & SONS CO. (Automatic Metallic Sash & Frame), 75 Pitts., Boston, Mass. (See adv. on preceding page; branch offices, end of book)
Bolles Revolving Sash Co. ("Bolles" Revolving), 15 Park Row, New York
California Mfg. Co., 974 S. Troy, Chicago, Ill.
Defender Safety Window Co., Jersey City, N. J.
Delssler, P. & Bro., 249 S. 6th, Phila., Pa.
LUPTON'S, DAVID SONS CO. (Automatic Metallic Sash & Frame), Allegheny av., Tulip, Phila., Pa.
Platt-Baker Co., 122 23d, New York
Phenix Mfg. Co., Humboldt av., cor. Center, Milwaukee, Wis.
TABOR SASH CO., Main Office & Factory, 69 Polk, Newark, N. J. (See adv. index & branch offices, end of book)
Waterstraat & Co., 61 Austin av., Chicago, Ill.
Window Swinging Co., Hale bldg., Phila., Pa.

Window Shade Adjusters

Ives, Hobart B., Co., New Haven, Conn.
Johnson, R. R. ("Johnson"), 257 66th, Chicago, Ill.
Stone Shade Adjuster Co., 1 Madison av., New York

Window Screen & Awning (Combined)

Phoenix Mfg. Co., Humboldt av., cor. Center, Milwaukee, Wis.

Window Shade Fixtures

American Shading Machine Co. (Adjustable), 164 Rano, Buffalo, N. Y.
Stover Mfg. Co., Freeport, Ill.

Window Shade Mfrs.

Grant-Arnold Co., Pittsburg, Pa.
Minetto Shade Cloth Co. (Holland & Felt Shades, Decorations & Fringes, Spring Rollers), Oswego, N. Y., & Minetto, N. Y.

Window Springs (Burglar Alarm)

Manhattan Electrical Supply Co. ("Ezytest"), 32 Cortlandt, N. Y.

***Window Stop Adjusters**

GRANT PULLEY & HARDWARE CO., 35 Warren, New York. (See adv. index, end of book)

Window Stop Screws & Washers

Read, A. P. Co. (Read's), 16 N Canal, Chicago, Ill.

Window Swinging Fixtures

Platt-Baker Co. ("Universal"), 12 E 23d, New York

Windows (Fire-Proof)

(See Windows, Sheet Metal for Fireproof Construction.)

Windows (Fire-Proof, Wire Glass)

BADGER, E. B. & SONS CO. (Automatic), 75 Pitts., Boston, Mass. (See adv. on preceding page; branch offices, end of book)
BERGER MFG. CO., Canton, O. (See adv. index & branch offices, end of book)
Blanchard, J. F. Co., Fuller bldg., New York, N. Y.
BURTON, W. J. CO., 164 W Larned, Detroit, Mich. (See adv. index, end of book)
CLASON ARCHITECTURAL METAL Works, 428 Kinsley av., Providence, R. I. (See adv. index, end of book)
FIRE-PROOF DOOR CO. ("Richardson's"), 401 12th av., Minneapolis, Minn. (See adv. index & branch offices, end of book)

HAYES, GEO. CO., 71 8th av., New York. (See adv. index, end of book)
Keighley, S. Metal Ceiling & Mfg. Co., 824 Locust, Pittsburg, Pa.
Knisely Bros., 28th pl & 5th av., Chicago, Ill.
KNISELY, H. C. CO. (Revolving), 273 S Canal, Chicago, Ill. (See adv. on preceding page)

McFARLAND, J. C. & CO., 27th & 5th av., Chicago, Ill., & 235 B'way, New York. (See adv. index, end of book)

Mackwirth Bros. Co., 201 Oak, Buffalo, N. Y.
Meade Roofing & Cornice Co., Phila., Pa.
Miller, J. A. & Bro., 136 S Clinton, Chicago, Ill.
MILWAUKEE ARTISTIC METAL Ceiling Co., Milwaukee, Wis.

Pruden, C. D. Co., Warner & Dock, Baltimore, Md.

Rasner & Dinger Co., 2d av & Ferry, Pittsburg, Pa.
St. Paul Roofing, Cornice & Ornament Co., St. Paul, Minn.

SCHOLES BROS., 1241 Rebecca, Allegheny, Pa. (See adv. index, end of book)
Smith-Warren Co., 93 Federal, Boston, Mass.

Sykes Steel Roofing Co., 112 W 19th pl, Chicago, Ill.

THORN, J. S. CO., 20th and Allegheny av., Phila., Pa. (See adv. index, end of book)

VOIGTMANN & CO. (Voigtman's Automatic Closing Patent), 42-54 E Erie, Chicago, Ill.; 430 W 14th & 427 W 13th, New York. (See adv. index, end of book)

Weyand, Hy. Co. (Inc.), Waterbury, Conn.
Witt & Brown, 215 W 3d, Cincinnati, O.

Windows (Reversible)

(See Window Sash, Reversible.)

***Windows (Sempermerus Iron, Genuine Kalamein)**

RAPP, JNO. W. (Copper & Bronze Covered), General Office & Works, College Point, N. Y. City, & Sales Office, 4 Madison av., New York. (See adv. index, end of book)

Windows (Sheet Metal, for Fire-Proof Construction)

American Sheet Metal Wks. ("Mudd's"), New Orleans, La.
Austral Window Balance Co., Times bldg., New York

BERGER MFG. CO., Main Office & Works, Canton, O. (See adv. index & branch offices, end of book)

Biersach & Niedermeyer Co., 216 5th, Milwaukee, Wls.

Blanchard, J. F. Co., Fuller bldg., New York, N. Y.

BURTON, W. J. CO., 164 Larned, Detroit, Mich. (See adv. index, end of book)

ELLER MFG. CO., Canton, O. (See adv. index, end of book)

FIRE PROOF DOOR CO., 401 12th av., Minneapolis, Minn. (See adv. index & branch offices, end of book)

Hecla Iron Works, 118 N 11th, Brooklyn, N. Y.

Hicks, S. D., & Son, 9 Bowker, Boston, Mass.

Illinois Roofing & Cornice Co., 124 N Curtis, Chicago, Ill.

Knisely Bros., 28th pl & 5th av., Chicago, Ill.

Lee, Tho's., 130 W 2d, Cincinnati, O.

Lieberman, M. F., Sheet Metal & Roofing Co. ("Overly" Patent, Economy, Pa.)

McFARLAND, J. C. & CO., 27th & 5th av., Chicago, Ill., & 235 B'way, New York. (See adv. index, end of book)

Meade Roofing & Cornice Co., 45th & Woodland av., Phila., Pa.

Metallie Mfg. Co., 110 Erie, Camden, N. J.

Miller, Jas. A. & Bro., 136 S Clinton, Chicago, Ill.

MILWAUKEE ARTISTIC METAL Ceiling Co., Milwaukee, Wis.

Perkinson & Brown, 113 N Lincoln, Chicago, Ill.

Pruden, C. D. Co., Builders' Exchange, Baltimore, Md.

St. Paul Roofing, Cornice & Ornament Co., St. Paul, Minn.

THORN, J. S. CO., 20th & Allegheny av., Phila., Pa. (See adv. index, end of book)

VOIGTMANN & CO., 42-54 E Erie, Chicago, Ill.; 430 W 14th & 427 W 13th, New York. (See adv. index, end of book)

Witt Cornice Co., B'way & 8th, Cincinnati, O.

Windows (Storm)

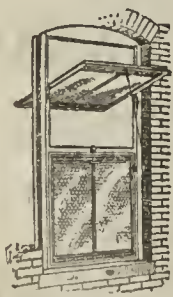
Phenix Mfg. Co., Humboldt av., cor. Center, Milwaukee, Wis.

***Windows & Sash (Air-Tight Bronze, Wood & Kalameined)**

JACKSON, WM. H. COMPANY, 29 E 17th (Union sq.), New York. (See adv. index, end of book)

UNION EQUIPMENT AND BRONZE CO.

520 W 36th, N. Y. (See adv. outside stencil)



The Voigtman Standard Automatic Closing and Locking Windows a Specialty

VOIGTMANN & COMPANY,

Manufacturers under Patents of THEIR SPECIALTIES IN

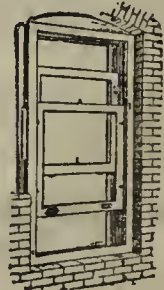
METALLIC Window Frames and Sashes

For Carrying Wire and Plate Glass

In accordance with the requirements demanded by Fire Insurance Underwriters and Building Departments. Generally acceptable in lieu of common windows and fire shutters.

427 W. 13th Street,
NEW YORK.

42 to 54 E. Erie Street,
CHICAGO.



The Voigtman Adjustable Weather Guide Window Interior View Showing Sash Weights

***Wipers**

STRONG MACHINERY & SUPPLY CO.
("Strong's" Silk & "Strong's" Tisafine),
48 Franklin, New York. (See adv. index,
end of book)

Wipers (Machine)

Houghton, E. F. & Co. ("Houghton's U. S."),
240 W Somerset, Phila., Pa.
Schlenmen, J. L. Waste Co., Detroit, Mich.

Wiping Cloths

BERNZ, OTTO, S 13th & S Orange av.
Newark, N. J. (See adv. index, end of
book)
Johnson, Wm. (Hedenberg Works) (Moleskin &
Ticking), Newark, N. J.
Porsch, Jno. ("Porsch," Metallic Radius), Erie,
Pa.
Starbuck, R. M. & Son, Hartford, Conn.
Wolverine Brass Works, Grand Rapids, Mich.

Wire (Aerial)

BRIXEY, W. R. ("Kerite"), 203
B'way, New York. (See adv. index, end of
book)
Collyer Insulated Wire Co., Pawtucket, R. I.
Indiana Rubber & Insulated Wire Co., Jones-
boro, Ind.
India Rubber & Gutta Percha Insulating Co.,
253 B'way, New York
OKONITE CO., Ltd. ("Candee"), 253
B'way, New York. (See adv. index, end of
book)

Wire (Aluminum)

Aluminum Co. of America (Bare & Insulated
Wire & Cables), Pittsburg, Pa.
AMERICAN STEEL & WIRE CO.,
The Rookery, Chicago, Ill. (See adv. index
& branch offices, end of book)
Driver-Harris Wire Co., Harrison, N. J.

***Wire (Aluminum Bronze)**

AMERICAN STEEL & WIRE CO.,
The Rookery, Chicago, Ill. (See adv. index
& branch offices, end of book)

Wire (Annealed)

(See Wire Market.)

Wire (Annunciator or Office)

American Electrical Works, Phillipsdale, R. I.
AMERICAN STEEL & WIRE CO.,
The Rookery, Chicago, Ill. (See adv. index
& branch offices, end of book)
Ansonia Brass & Copper Co., Ansonia, Conn., &
99 John, New York
Ansonia Electrical Co., Ansonia, Conn.
Bridgeport Brass Co., Bridgeport, Conn., & 19
Murray, New York
Chicago Insulated Wire & Mfg. Co., 152 Lake,
Chicago, Ill., & Sycamore, Ill.
Collyer Insulated Wire Co., Pawtucket, R. I.
Crescent Insulated Wire & Cable Co., Trenton,
N. J.
Hazard Mfg. Co., Wilkes-Barre, Pa., & 50 Dey,
New York
Moore, Alfred F., 200 N 3d, Philadelphia, Pa.
National Conduit & Cable Co., 41 Park row,
New York
OKONITE CO., Ltd., 253 B'way, New
York. (See adv. index, end of book)
Phillips Insulated Wire Co., Pawtucket, R. I.
ROEBLING'S, JOHN A. SONS CO. (of
N. Y.), Trenton, N. J., & 117 Liberty, New
York. (See adv. index & branch offices, end
of book)
Standard Underground Cable Co., Pittsburg, Pa.
Western Electric Co., 259 S Clinton, Chicago,
Ill., & 57 Bethune, New York

Wire (Barbed)

AMERICAN STEEL & WIRE CO.
(Two & Four Point; Gledden, Baker, Per-
fect, Ellwood, Waukegan, Lyman & Iowa
Brands), The Rookery, Chicago, Ill. (See
adv. index & branch offices, end of book)
Cambria Steel Co. (Gautier Dept.), Johnstown,
Pa.
Colorado Fuel & Iron Co. (Plain & Galvanized),
Denver, Col.
Cyclone Woven Wire Fence Co., Holly, Mich.
Dillon-Griswold Wire Co., Sterling, Ill.

Grand Crossing Tack Co., S Chicago av & 79th,
Chicago, Ill.
Haish Wire & Implement Co., DeKalb, Ill.
HAZARD MFG. CO., Wilkes-Barre,
Pa., & 50 Dey, New York. (See adv. index,
end of book)
Janesville Barb Wire Co., Janesville, Wis.
Kokomo Steel & Wire Co., Kokomo, Ind.
National Wire Corporation, 114 Liberty, New
York
Northwestern Barb Wire Co., Sterling, Ill.
Norton Iron Works (Inc.), Ashland, Ky.
Pittsburg Steel Co., Frick bldg, Pittsburg, Pa.
ROEBLING'S, JOHN A. SONS CO. (of
N. Y.), Trenton, N. J., & 117 Liberty, New
York. (See adv. index & branch offices,
end of book)
Southern Steel Co., Birmingham, Ala.

Wire (Bookbinders')

National Wire Corporation. General Offices, 114
Liberty, New York
Shenandoah Steel Wire Co., Buffalo, N. Y.
Spencer Wire Co., Worcester, Mass.

Wire (Brass & Bronze Screw)

Waterbury Brass Co., Waterbury, Conn., & 99
John, New York

Wire (Brass & Copper)

American Brass Co., Waterbury, Conn.
American Electrical Works ("Copper Wire &
Cables for Electrical Use"), Phillipsdale,
R. I., & 26 Cortlandt, New York
Ansonia Brass & Copper Co., Ansonia, Conn., &
99 John, New York
Barnes, Wallace Co. (Brass), Bristol, Conn.
Babbitt-Harris Co. (Fire Wires), Clayville, N. Y.
BENEDICT & BURNHAM MFG. CO.,
Waterbury, Conn. (See adv. index & branch
offices, end of book)
Bridgeport Brass Co., Bridgeport, Conn., & 19
Murray, New York
Bristol Brass Co. (Brass Only), Bristol, Conn.
Chase Rolling Mill Co., Waterbury, Conn.
Chicago Insulated Wire & Mfg. Co., 152 Lake,
Chicago, Ill.
Coe Brass Mfg. Co., Torrington, Conn.
Collyer Insulated Wire Co., Pawtucket, R. I.
Detroit Copper & Brass Rolling Mills, Detroit,
Mich.
Driver-Harris Wire Co., Harrison, N. J.
Duplex Metals Co. ("Monnot" Copper), Ches-
ter, Pa., & 208 5th av, New York
Eastwood Wire Mfg. Co., Belleville, N. J.
GENERAL ELECTRIC CO. (Copper),
Schenectady, N. Y., & 44 Broad, New York.
(See adv. index & branch offices, end of
book)
Hazard Mfg. Co. (Copper Only), Wilkes-Barre,
Pa., & 50 Dey, New York
Hendricks Bros. (Copper Only), 49 Cliff, New
York

HUNGERFORD, U. T. BRASS & COP-
per Co., 497 Pearl, New York
Manhattan Brass Co., 338 E 28th, New York
MERCHANT & EVANS CO., Inc., 517
Arch, Philadelphia, Pa. (See adv. index &
branch offices, end of book)
MICHIGAN WIRE CLOTH CO., 500
Howard, Detroit, Mich. (See adv. on fol-
lowing page)
Nat'l Conduit & Cable Co. (Copper Wire &
Cable), 41 Park row, New York
Phillips Insulated Wire Co., Pawtucket, R. I.
Plume & Atwood Mfg. Co., Waterbury, Conn.
ROEBLING'S, JOHN A. SONS CO. (of
N. Y.), Trenton, N. J., & 117 Liberty, New
York. (See adv. index & branch offices, end
of book)

Rome Brass & Copper Co., Rome, N. Y.
Scovill Mfg. Co. (Brass), Waterbury, Conn.
Seymour Mfg. Co., Seymour, Conn.
Shenandoah Steel Wire Co. (Copper Only), Buf-
falo, N. Y.
Spargo, Jas. A. Wire Co. (Copper Only, Fine
Sizes a Specialty), Rome, N. Y.
Standard Underground Cable Co. ("Copper for
electrical use"), Westinghouse bldg, Pitts-
burg, Pa.

Waclark Wire Co. (Copper Only), Elizabethport,
N. J., & 49 Wall, New York
Washburn Wire Co. (Electric Copper), Phillips-
dale, R. I., & 118th & Harlem River, N. Y.
Waterbury Brass Co., Waterbury, Conn., & 99
John, New York
Waterbury Rolling Mills (Inc.), Waterbury,
Conn.
WRIGHT WIRE CO., Worcester,
Mass. (See adv. index & branch offices, end
of book)

Wire (Bright Market)

(See Wire Market.)

***Wire (Bronze)**

MICHIGAN WIRE CLOTH CO., 500
Howard, Detroit, Mich. (See adv. on follow-
ing page)

Wire (Broom & Brush)

Acme Wire Co., Cuyahog Falls, O.
AMERICAN STEEL & WIRE CO.,
The Rookery, Chicago, Ill. (See adv. in-
dex & branch offices, end of book)
Babbitt-Harris Co. (Brush Makers' Drawing
Wire, Brass, Copper, German Silver, Steel,
Scratch Brush Wire, etc.), Clayville, N. Y.
Driver-Harris Wire Co. (Fine), Harrison, N. J.
Independent Steel & Wire Co., Pittsburg, Pa.
National Wire Corporation, New Haven, Conn.,
& 114 Liberty, New York
New Haven Wire Mfg. Co., New Haven, Conn.
Pitkin Mfg. Co., E. Aurora, N. Y.
Spencer Wire Co., Worcester, Mass.
Shenandoah Steel Wire Co., Buffalo, N. Y.
Washburn Wire Co., Phillipsdale, R. I., & 118th
& East River, New York, N. Y.
WRIGHT WIRE CO., Worcester,
Mass. (See adv. index & branch offices, end
of book)

Wire (Cable)

AMERICAN STEEL & WIRE CO.,
The Rookery, Chicago, Ill. (See adv. index
& branch offices, end of book)
National Wire Corporation, New Haven, Conn.,
& 114 Liberty, New York
Pittsburg Steel Co., People's Sav. Bank bldg,
Pittsburg, Pa.

Wire Cables (Copper)

American Electrical Works, Phillipsdale, R. I.,
& 26 Cortlandt, New York
AMERICAN STEEL & WIRE CO.,
The Rookery, Chicago, Ill. (See adv. index
& branch offices, end of book)
Broderick & Bascom Rope Co., 800 N Main, St.
Louis, Mo.
Collyer Insulated Wire Co., Pawtucket, R. I.
HAZARD MFG. CO., Wilkes-Barre,
Pa., & 50 Dey, New York
Leschen, A. & Sons Rope Co., 920 N 1st,
St. Louis, Mo.
ROEBLING'S, JOHN A. SONS CO. (of
N. Y.), Trenton, N. J., & 117 Liberty,
New York. (See adv. index & branch offices,
end of book)
Standard Underground Cable Co., Westinghouse
bldg, Pittsburg, Pa.

Wire (Card)

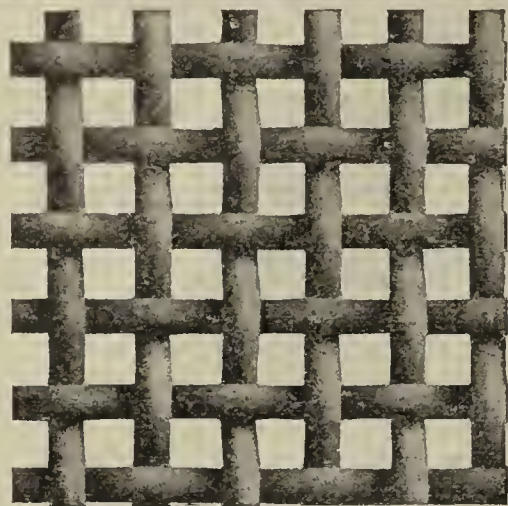
AMERICAN STEEL & WIRE CO.,
The Rookery, Chicago, Ill. (See adv. index
& branch offices, end of book)
Prentiss, Geo. W. & Co., Holyoke, Mass.
Spencer Wire Co., Worcester, Mass.
WRIGHT WIRE CO., Worcester,
Mass. (See adv. index, end of book)

Wire (Chain)

AMERICAN STEEL & WIRE CO.,
The Rookery, Chicago, Ill. (See adv. index
& branch offices, end of book)
National Wire Corporation, New Haven, Conn.,
& 114 Liberty, New York
Spencer Wire Co., Worcester, Mass.

**When writing to firms whose
names appear in this book
please mention**

HENDRICKS'
COMMERCIAL REGISTER.



EVERYTHING IN WIRE CLOTH

THE "MICHIGAN" DOUBLE CRIMP-LOCKED MESH GRADES FOR EVERY PURPOSE,

In any Mesh and Gauge of Wire in Steel, Iron,
Tinned, Galvanized, Bronze, Copper, Brass, Etc.

A FEW OF THE GRADES WE MAKE ARE

**HARDWARE GRADES OF ALL KINDS, FRUIT EVAPORATOR, RIDDLE, SAND
AND COAL SCREEN, MILLING, BOLTING, MINING, CEMENT, FANNING MILL,
SPARK ARRESTER AND ALL RAILROAD AND CAR GRADES, ETC. BRONZE,
COPPER, GALVANIZED, AND PAINTED WINDOW AND DOOR SCREEN CLOTH.**

There is no kind of wire cloth required in the production of any machine or manufactured article that we do not make

And Manufacturers of WIRE and METAL LOCKERS

DRAWERS of BRASS, COPPER and BRONZE WIRE

WRITE FOR CATALOGUE AND PRICES

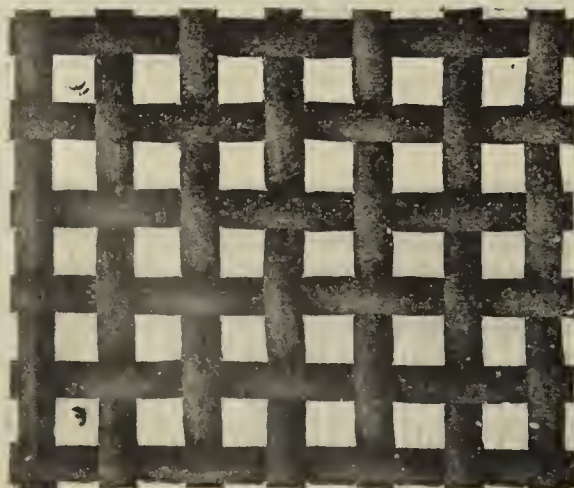
**MICHIGAN WIRE CLOTH CO., 500 HOWARD STREET
DETROIT, MICH., U. S. A.**

Wire Cloth

American Wire Cloth Co., Glen Rock, Pa.
AMOS, CHARLES & CO., 94 W
Larned, Detroit, Mich. (See adv. index,
end of book)
Barbee Wire & Iron Works, 44 Dearborn, Chi-
cago, Ill., & Lafayette, Ind.
BIGELOW, CHENEY WIRE WORKS
(All Kinds), Springfield, Mass. (See adv.
index, end of book)
Brown & Sellers Co., Holyoke, Mass.
BUFFALO WIRE WORKS CO., 316
Terrace, Buffalo, N. Y. (See adv. index,
end of book)
Cable, Wm. Excelsior Wire Mfg. Co., 43 Ful-
ton, N. Y.
Caire Justinian Co., 565 Market, San Francis-
co, Cal.
California Wire Cloth Co., 8 Pine, San Fran-
cisco, Cal.
CINCINNATI MFG. CO., 1243 W 6th,
Cincinnati, O. (See adv. index, end of
book)

CITY FORGE & IRON WORKS (An-
drew Plocher, Prop'r), Dayton, O. (See adv.
index, end of book)
CLINTON WIRE CLOTH CO. (Brass,
Bronze & Copper), Clinton, Mass. (See adv.
index & branch offices, end of book)
COLUMBUS WIRE & IRON WORKS
Co., Columbus, O. (See adv. index, end of
book)
DARBY, EDW. & SONS CO., 239 Arch,
Phila., Pa. (See adv. index, end of book)
De Witt Wire Cloth Co., Market, Phila., Pa., &
299 B'way, New York
Dow Wire & Iron Works, Louisville, Ky.
Dufur & Co., 311 N. Howard, Baltimore, Md.
Eastwood Wire Mfg. Co. (Brass & Copper),
Belleville, N. Y.
ESTEY WIRE WORKS CO. (For All
Purposes), 59 Fulton, New York. (See adv.
index, end of book)
Federal Wire Cloth Co., Harrison, N. J.
Gilbert & Bennett Mfg. Co., Georgetown, Conn.
Globe Wire Cloth Co., Harrison, N. J.
Hanover Wire Cloth Co., Hanover, Pa.
Howard & Morse, 45 Fulton, N. Y.

Lasar-Letzig Mfg. Co., 1313 N 16th, St. Louis,
Mo.
Ludlow-Saylor Wire Co., 16th & O'Fallon, St.
Louis, Mo.
MERRITT & CO., 1024 Ridge av,
Phila., Pa. (See adv. index, end of book)
Meyers, Fredk. J. Mfg. Co., Hamilton, O.
MICHIGAN WIRE CLOTH CO. (All
Kinds), 500 Howard, Detroit, Mich. (See
adv. above)
Morss & Whyte Co., 75 Cornhill, Boston, Mass.
NATIONAL MFG. CO., Worcester,
Mass. (See adv. index & branch offices, end
of book)
New Freedom Wire Cloth Co. (Screen), New
Freedom, Pa.
New Jersey Wire Cloth Co., Trenton, N. J.
New York Wire Cloth Co., 102 Chambers, N. Y.
Palmer, I. E. (Window Screen), Middletown,
Conn.
Phoenix Wire Works, Detroit, Mich.
Queen City Wire Works, 193 Seneca, Buffalo,
Reed Wire Cloth Co., Newark, O. N. Y.
Reynolds Wire Co., Dixon, Ill.



The Tyler Double Crimped Wire Cloth and Screen

MADE IN ALL MESHES AND ALL METALS

**MINING SCREENS, ROLLED WIRE CLOTH, ROLLED SLOT SCREENS,
GALVANIZED WIRE CLOTH, TINNED WIRE CLOTH, LOCOMOTIVE STACK
NETTING, PLATED MILL SCREEN CLOTH, FOURDRINIER WIRES,
SUGAR CLOTH, FILTER CLOTH, VENTILATOR WIRE CLOTH, GALVAN-
IZED WIRE NETTING, TWILLED WIRE CLOTH, COAL SCREEN CLOTH, Etc.**

WIRE CLOTH of every kind, from the coarse meshes of heavy wire
to the fine meshes of thread-like wire, made from iron, steel, brass,
phosphor-bronze or copper, and woven to suit the requirement. :: ::

SEND FOR CATALOGUE "N"

THE W. S. TYLER COMPANY, - Cleveland, Ohio

Rice & Co., Lowell, Mass.
SMITH, F. P. WIRE & IRON WORKS,
 100 Lake, Chicago, Ill. (See adv. index,
 end of book)
 Snow Wire Works Co., 76 Exchange, Rochester,
 N. Y.
 Strawbridge & Chase Co. (Ltd.), 228 Arch,
 Phila., Pa.
 Syracuse Wire Works, Syracuse, N. Y.
TAYLOR & DEAN, 205 Market, Pitts-
burg, Pa. (See adv. index, end of book)
TYLER, W. S. CO., Cleveland, O., &
 11 B'way, New York. (See adv. on preced-
 ing page)
 Voss, Frederick, 617 to 621 Austin av., Chicago,
 Ill.
 What Cheer Wire Works, Providence, R. I.
 West Coast Wire & Iron Works, 17 Fremont,
 San Francisco, Cal.
 White Brothers Mfg. Co., successors to the Den-
 ver Iron & Wire Works Co., Office, 209 Con-
 tinental Bldg., Works, W. 12th av. & S. 4th,
 Denver, Col.
 White Wire Works Co. (Inc.), Rochester, N. Y.
 Whyte, Oliver & Co., 17 Cornhill, Boston, Mass.
 Wickwire Bros., Cortland, N. Y.
 Williams, Geo. A. & Sons, 85 Fulton, N. Y.
WRIGHT WIRE CO., Worcester,
 Mass. (See adv. index & branch offices, end
 of book)

*Wire Cloth (Brass & Bronze)

ESTEY WIRE WORKS CO., 59 Ful-
 ton, New York. (See adv. index, end of book)

Wire Cloth (Brass & Copper)

Atlanta Wire & Iron Works Co., Atlanta, Ga.
BIGELOW, CHENEY WIRE WORKS,
 Springfield, Mass. (See adv. index, end of
 book)
BUFFALO WIRE WORKS CO., 316
 Terrace, Buffalo, N. Y. (See adv. index,
 end of book)
DARBY, EDW. & SONS CO., 239 Arch,
 Phila., Pa. (See adv. index, end of book)
CLINTON WIRE CLOTH CO., Clinton,
 Mass. (See adv. index & branch offices, end
 of book)
 Eastwood Wire Mfg. Co., Belleville, N. J.
 Gilbert & Bennett Mfg. Co., Georgetown, Conn.
HUNGERFORD, U. T. BRASS & COP-
 per Co., 497 Pearl, N. Y.
MICHIGAN WIRE CLOTH CO., 500
 Howard, Detroit, Mich. (See adv. on pre-
 ceding page)
 New Jersey Wire Cloth Co., Trenton, N. J.
SMITH, F. P. WIRE & IRON WORKS,
 100 Lake, Chicago, Ill. (See adv. index,
 end of book)
TYLER, W. S. CO., Cleveland, O., &
 11 B'way, New York. (See adv. on preced-
 ing page)
WRIGHT WIRE CO., Worcester,
 Mass. (See adv. index & branch offices, end
 of book)

Wire (Coiled Spring)

Carpenter Steel Co., Reading, Pa.
 Eastwood Wire Mfg. Co. (Brass), Belleville,
 Ill.
 Frost Wire Fence Co., Cleveland, O.
 Kidd Bros. & Burgher Steel Wire Co. (Cruci-
 ble, Needle, Awl, Spring, etc.), Aliquippa,
 Pa.

Kokomo Steel & Wire Co., Kokomo, Ind.
 Newman, O. Wire Co., 143 Liberty, New York
 Spencer Wire Co., Worcester, Mass.
 Washburn Wire Co., Phillipsdale, R. I., &
 118th & Harlem River, N. Y.

Wire (Cold Drawn Steel)

Kidd Bros. & Burgher Steel Wire Co., Ali-
 quippa, Pa.

Wire (Copper)

(See Wire, Brass & Copper.)

Wire (Copper Telephone)

American Electrical Works, Phillipsdale, R. I.,
 & 26 Cortlandt, N. Y.
AMERICAN STEEL & WIRE CO.,
 The Rookery, Chicago, Ill. (See adv. index
 & branch offices, end of book)
BRIXEY, W. R. ("Kerite"), 203
 B'way, New York. (See adv. index, end of
 book)
 Collyer Insulated Wire Co., Pawtucket, R. I.
 Phillips Insulated Wire Co., Pawtucket, R. I.

ROEBLING'S, JOHN A. SONS CO. (of
 N. Y.), Trenton, N. J., & 117 Liberty, New
 York. (See adv. index & branch offices, end
 of book)
 Standard Underground Cable Co., Westinghouse
 bldg., Pittsburg, Pa.

Wire (Coppered)

American Electrical Works, Phillipsdale, R. I.,
 & 26 Cortlandt, N. Y.
AMERICAN STEEL & WIRE CO.,
 The Rookery, Chicago, Ill. (See adv. index
 & branch offices, end of book)
 Cuyahoga Steel & Wire Co., Cuyahoga Falls, O.
 Dewitt Wire Cloth Co., Philadelphia, Pa., & 299
 B'way, New York
 Igoe Iron & Steel Co., 226 N 9th, Brooklyn,
 N. Y.
 Independent Steel & Wire Co., Pittsburg, Pa.
 National Wire Corporation, New Haven, Conn.,
 & 114 Liberty, New York
 Prentiss, G. W. & Co., Holyoke, Mass.
 Reading Screw Co., Norristown, Pa.
ROEBLING'S, JOHN A. SONS CO. (of
 N. Y.), Trenton, N. J., & 117 Liberty, New
 York. (See adv. index & branch offices, end
 of book)
 Shenandoah Steel Wire Co., Buffalo, N. Y.
 Spencer Wire Co., Worcester, Mass.
 Standard Underground Cable Co., Westinghouse
 bldg., Pittsburg, Pa.
 Stewart Wire Co., Easton, Pa.
 Trenton Iron Co., Trenton, N. J., & 17 Burling
 Slip, New York
 Washburn Wire Co., Phillipsdale, R. I., &
 118th & Harlem River, N. Y.
 Wickwire Bros., Cortland, N. Y.
WRIGHT WIRE CO., Worcester,
 Mass. (See adv. index & branch offices, end
 of book)

Wire Cord (Picture)

De Witt Cloth Co., Market, Phila., Pa., & 299
 B'way, New York
 National Wire Corporation, New Haven, Conn.,
 & 114 Liberty, New York
 Spencer Wire Co., Worcester, Mass.
WRIGHT WIRE CO., Worcester,
 Mass. (See adv. index & branch offices,
 end of book)

Wire (Feeder)

American Electrical Works, Phillipsdale, R. I.,
 & 26 Cortlandt, New York
AMERICAN STEEL & WIRE CO.,
 The Rookery, Chicago, Ill. (See adv. index
 & branch offices, end of book)
 Ansonia Electrical Co., Ansonia, Conn.
BRIXEY, W. R. ("Kerite"), 203
 B'way, New York. (See adv. index, end
 of book)
 Collyer Insulated Wire Co., Pawtucket, R. I.
 Hazard Mfg. Co., Wilkes-Barre, Pa., & 55 Dcy.
 New York
OKONITE CO. (Ltd.) (Railway Feed,
 etc.), 253 B'way, New York. (See adv. on
 following page)
 Phillips Insulated Wire Co., Pawtucket, R. I.
ROEBLING'S, JOHN A. SONS CO. (of
 N. Y.), Trenton, N. J., & 117 Liberty,
 New York. (See adv. index & branch of-
 fices, end of book)
 Safety Insulated & Cable Wire Co., 114 Liberty,
 New York
 Standard Underground Cable Co., Westinghouse
 bldg., Pittsburg, Pa.

Wire Fences & Gates

Adrian Wire Fence Co., Adrian, Mich.
 Adams, Steel & Wire Works, Joliet, Ill.
AJAX IRON & WIRE CO., 75 York,
 Brooklyn, N. Y.
 American Mfg. Corp., Norfolk, Va.
 American Truss Fence Co., Pekin, Ill.
AMOS CHAS. & CO., 94 W. Larned,
 Detroit, Mich. (See adv. index, end of
 book)
 Anchor Fence & Mfg. Co. (Farm & Railroad
 "Anchor" Spring Wire), Cleveland, O.
ANCHOR POST IRON WORKS, 41
 Park Row, New York. (See adv. index, end
 of book)
 Barbee Wire & Iron Works, 44 Dearborn, Chi-
 cago, Ill., & Lafayette, Ind.
 Barnum, E. T. Wire & Iron Works, Detroit,
 Mich.
 Bloomer, R. H. Mfg. Co., Council Bluffs, Ia.
 Boley Wire Fence Co., Sandusky, Ohio.

BOLLES, J. E. IRON & WIRE WKS.,
 4th av. & Porter, Detroit, Mich. (See adv.
 index, end of book)
 Bond Steel Post Co. ("Empire"), Ann Arbor, Mich.,
 Columbus, O.
BUFFALO WIRE WORKS CO., 316
 Terrace, Buffalo, N. Y. See adv. index, end
 of book)
CARPENTER, F. E. CO., 9 Warren,
 New York. (See adv. index, end of book)
CINCINNATI MFG. CO., 1243 W. 6th,
 Cincinnati, O. (See adv. index, end of book)
CITY FORGE & IRON WORKS (An-
 drew Plocher, Prop.) (Gates Only), Day-
 ton, O. (See adv. index, end of book)
 Cleveland Fence Machine & Wire Co. ("Peer-
 less," "Colonial," etc. Woven Wire), Lake
 & Marquette, Cleveland, O.
CLINTON WIRE CLOTH CO., Clinton,
 Mass. (See adv. index & branch offices, end
 of book)
 Columbia Iron & Wire Works Co., Canton, O.
 Common Sense Fence Co., Homer, Ind.
 Cyclone Woven Wire Fence Co. (Cyclone Woven
 Wire), Holly, Mich.
 Davis & Siehl, 4032 Hamilton av., Cincinnati, O.
 De Kalb Fence Co., De Kalb, Ill.
 Denver Iron & Wire Works, Denver, Col.
 De Witt Wire Cloth Co., 299 B'way, New York;
 703 Market, Philadelphia, Pa.
 Dow Wire & Iron Works, Louisville, Ky.
 Dufur & Co., 311 N. Howard, Baltimore, Md.
 Dwiggin's Wire Fence Co. (For Fields, Lawns,
 Cemeteries & Parks), Anderson, Ind.
 Elliott & Ried Co. (Slat Fence, etc.), Richmond,
 Ind.
ESTEY WIRE WORKS CO., 59 Ful-
 ton, New York. (See adv. index, end of
 book)
 Eureka Fence Mfg. Co. (Lawn Fences & Gates,
 etc.), Richmond, Ind.
 Frost Wire Fence Co. (Steel Gates), Lake &
 Marquette, Cleveland, O.
 Gate City Fence Works, Atlanta, Ga.
 Gem Wire Fence Co., Pontiac, Mich.
 Gilbert & Bennett Mfg. Co., Georgetown, Conn.
 Haish Wire & Implement Co., DeKalb, Ill.
 Healy & Murray, Fremont, Neb.
HICKEY, M. H. WIRE & IRON
 Works, 54 Dearborn, Chicago, Ill.
 Hinderer, C. A. F., 1112 Camp, New Orleans,
 La.
 Holmes & Ward Bros., Cadiz, O.
 Howard & Morse, 45 Fulton, New York
 Huxley, Jno. H., 133 Liberty, New York
 Indiana Anchor Fence Co., South Bend, Ind.
INTERNATIONAL FENCE & FIRE-
 proofing Co. (Plain Coiled, Barbed & Or-
 namental for Farm & Railroad), Buttes av.
 Columbus, O. (See adv. index, end of book)
 International Steel Post Co., 719 Chestnut, St.
 Louis, Mo.
 Imperial Wire, Iron & Roofing Co., 221 W Mar-
 ket, Louisville, Ky.
 Janesville Barb Wire Co., Janesville, Wis.
 Keystone Fence Co., Peoria, Ill.
 King & Dexter Co., Portland, Me.
 Kitzelman Bros. (Ornamental), Muncie, Ind.
 Kokomo Fence Machine Co. (Ornamental &
 Shield), Kokomo, Ind.
 Lamb Wire Fence Co., Adrian, Mich.
 Lansing Wheelbarrow Co., Lansing, Mich.
 Ludlow-Saylor Wire Co., 4th e Elm, St. Louis,
 Mo.
 McClelland, W. C. (Lawn & Stock Fence),
 Rossman, N. Y.
 Majestic Wire Fence Co. (Lawn), Detroit, Mich.
 Mason, W. H. & Co., Leesburg, O.
 Michigan Anchor Fence Co. (Inc.), South Haven,
 Mich.
 Missouri Anchor Fence Co., St. Joseph, Mo.
 National Wire Corporation, New Haven, Conn.,
 & 114 Liberty, New York
 Ohio Anchor Fence Co., 229 Z, River, Cleve-
 land, O.
OHIO STRUCTURAL IRON CO., San-
 dusky, O. (See adv. index, end of book)
 Ornamental Iron & Wire Co. (Inc.), Portsmouth,
 Va.
 Page Woven Wire Fence Co. (For all Pur-
 poses), Monessen, Pa.
 Pittsburg Steel Co. (Perfect), Pittsburg, Pa.
 Rickards Fence Co. (Rickards Steel Picket),
 Keokuk, Ia.
 St. Louis Wire & Iron Co., 518 Chouteau av, St.
 Louis, Mo.
 Simmons & Sons, Spokane, Wash.
SMITH, F. P. WIRE & IRON WORKS,
 100 Lake, Chicago, Ill. (See adv. index,
 end of book)
 Southern Steel Co. (Field Fencing Only), Bir-
 mingham, Ala.
 Spencer Wire Co., Worcester, Mass.
 Spring Steel Fence & Wire Co., Anderson, Ind.

Stewart Iron Works Co., 714 E 3d, Cincinnati, O.
TAYLOR & DEAN, 205 Market,
 Pittsburg, Pa. (See adv. index, end of book)
 Union Fence Co., De Kalb, Ill.
 Victor Wire Fence Co., Anderson, Ind.
WISCONSIN IRON & WIRE WORKS,
 190 E Water, Milwaukee, Wis. (See adv. index & branch offices, end of book)
WRIGHT WIRE CO., Worcester,
 Mass. (See adv. index & branch offices, end of book)

Wire (Fire Detecting)

Montauk Fire Detecting Wire Co., 100 B'way, New York

Wire (Fixture)

Bishop Gutta Percha Co., 422 E 25th, N. Y.
 Moore, Alfred F., 202 N. 3d, Phila., Pa.

Wire (Flat & Round Tempered)

Cary Spring Works, 240 W 29th, New York
 Newman, C. Wire Co., 143 Liberty, New York
 Spencer Wire Co., Worcester, Mass.

*Wire Flooring (Woven)

AMERICAN STEEL & WIRE CO.,
 The Rookery, Chicago, Ill. (See adv. index & branch offices, end of book)

Wire (Florists')

Sbenandoah Steel Wire Co., Buffalo, N. Y.
 Spencer Wire Co., Worcester, Mass.
WRIGHT WIRE CO. (Floral Designs, etc.), Worcester, Mass. (See adv. index & branch offices, end of book)

Wire (Fourdrinier)

Babbitt-Harris Co., Clayville, N. Y.
BIGELOW, CHENEY WIRE WORKS,
 Springfield, Mass. (See adv. index end of book)
 Brown & Sellers Co., Holyoke, Mass.
 Buchanan & Bolt Wire Co., Holyoke, Mass.
 Driver-Harris Wire Co., Harrison, N. J.
 Eastwood Wire Mfg. Co., Belleville, N. J.
 Federal Wire Cloth Co., Harrison, N. J.
TYLER, W. S. CO., Cleveland, O.,
 & 11 B'way, New York (See adv. index, end of book)

Wire (Fuse)

(See Fuse, Wire.)

Wire (Galvanized)

(See Wire, Market.)

Wire (German Silver)

Babbitt-Harris Co., Clayville, N. Y.
 Benedict & Burnham Mfg. Co., Waterbury, Conn.
 Bridgeport Brass Co., Bridgeport, Conn., & 19 Murray, N. Y.
 Bristol Brass & Clock Co., Bristol, Conn.
 Coe Brass Mfg. Co., Torrington, Conn.
 Detroit Copper & Brass Rolling Mills, Detroit, Mich.
 Driver-Harris Wire Co. ("Ferro Nickel"), Harrison, N. J.
MICHIGAN WIRE CLOTH CO., 500
 Howard, Detroit, Mich. (See adv. index, end of book)
 Plume & Atwood Mfg. Co., Waterbury, Conn.
 Riverside Metal Co., Riverside, N. J.
 Scovill Mfg. Co., Waterbury, Conn.
 Seymour Mfg. Co., Seymour, Conn.
 Waterbury Brass Co., Waterbury, Conn., & 99 John, New York

Wire Glass for All Purposes

(See Glass, Wire, Mfrs.)

*Wire (Gold & Silver)

UNITED WIRE & SUPPLY CO.
 (Solid), 109 Summer, Providence, R. I. (See adv. index, end of book)

*Wire (Gold & Silver Plated)

UNITED WIRE & SUPPLY CO.
 (Seamless), 109 Summer, Providence, R. I. (See adv. index, end of book)

Wire Goods (Mfrs.)

(See also the Specific article required)

AMOS, CHAS. & CO., 94 W Larned,
 Detroit, Mich. (See adv. index, end of book)
 Balrd Machine Co. (Bright, to Order), Oakville, Conn.
 Bromwell Co., Cincinnati, O.
 Brooks, M. S. & Sons (All Kinds of Screw Specialties, etc.), Chester, Conn.
COLLINS, EMMONS, 20 W. Randolph,
 Chicago, Ill. (See adv. index, end of book)
 Dean, Hy. E. & Co. (Kitchen), Worcester, Mass.
 Jenckes, E. Mfg. Co. (Special, Bright Iron & Brass, etc.), Pawtucket, R. I.
 Hamblin & Russell Mfg. Co., (Bright Wire Goods), Worcester, Mass.
 Jenkinson, R. S. & Co., (By automatic Machines), Newark, N. J.
 Kilbourne Mfg. Co., Troy, N. J.
 Lydall, H. & Foulds, Manchester, Conn.
MICHIGAN WIRE CLOTH CO., Detroit, Mich. (See adv. index, end of book)
 Ossawan Mills Co. (Bright), Norwich, Conn.
 Parker Wire Goods Co. (Bright & Mill Wire), Worcester, Mass.
 Phila. Ornamental Wire Co. (Twisted & Plain), 525 Commerce, Phila., Pa.

Smith, F. P. & Co. (Specials), Sharon Hill, Pa.
 Special Machinery Co., Bridgeport, Conn.
 Spencer Wire Co., Worcester, Mass.
 Wire Goods Co. (Everything in Wire), Worcester, Mass.

Wire (Gun Wrapping)

AMERICAN STEEL & WIRE CO.,
 The Rookery, Chicago, Ill. (See adv. index & branch offices, end of book)
 National Wire Corporation, New Haven, Conn., & 114 Liberty, New York

Wire (Hairpin)

National Wire Corporation, New Haven, Conn., & 114 Liberty, New York
 Shenandoah Steel Wire Co., Buffalo, N. Y.

Wire (Hercules)

Kokomo Steel & Wire Co. (Made from Four Wires Braided), Kokomo, Ind.

Wire (Insulated)

Acme Wire Co. (Copper), New Haven, Conn.
 American Electrical Works, Phillipsdale, R. I., & 26 Cortlandt, New York
AMERICAN STEEL & WIRE CO.,
 The Rookery, Chicago, Ill. (See adv. index, & branch offices, end of book)
 Ansonia Brass & Copper Co., Ansonia, Conn., & 99 John, New York
 Ansonia Electrical Co., Ansonia, Conn.
 Atlantic Insulated Wire & Cable Co., 120 Liberty, New York, & Stamford, Conn.
 Benedict & Burnham Mfg. Co., Waterbury, Conn.
 Bishop Gutta Percha Co. (Rubber & Gutta Percha), 420 E 25th, New York
 Boston Insulated Wire & Cable Co., Boston, Mass.
 Bradford, Kyle & Co., Plymouth, Mass.
 Bridgeport Brass Co., Bridgeport, Conn., & 19 Murray, New York
 Bridgeport Electric Mfg. Co., Bridgeport, Conn.
BRIXEY, W. R. ("Kerite"), 203
 B'way, New York. (See adv. index, end of book)
 Chicago Insulated Wire & Mfg. Co., Sycamore, Ill., & 152 Lake, Chicago, Ill.
 Collyer Insulated Wire Co., Pawtucket, R. I.
 Crescent Insulated Wire & Cable Co., Trenton, N. J.
 Driver-Harris Wire Co., Newark, N. J.
 Eastern Electric Cable Co., 61 Hampshire, Boston, Mass.
 Electric Cable Co. ("Votax"), Bridgeport, Conn.
GENERAL ELECTRIC CO. (All
 Kinds), Schenectady, N. Y., & 44 Broad, N. Y. (See adv. index & branch offices, end of book)
 Granite State Electric Co., Llsbon, N. H.
 Hazard Mfg. Co. (Rubber), Wilkes-Barre, Pa., & 50 Dey, New York

THE OKONITE INSULATED WIRES AND CABLES.



TRADE MARK

Reg. U. S. Patent Office

WILLARD L. CANDEE, Managers.
 H. DURANT CHEEVER, Supt.
 GEO. T. MANSON, Gen'l Supt.
 W. H. HODGINS, Secretary.

are unrivalled for Arc and Incandescent Circuits, and are endorsed by the leading Electrical Engineers, Architects and Contractors of this Country and Europe.

Insulated Cables for MARINE and UNDERGROUND Construction.

Okonite Wire, Candee Aerial Wire, Okonite Waterproof Tape and Manson Protecting Tape.

SEND FOR SAMPLES AND PRICES.

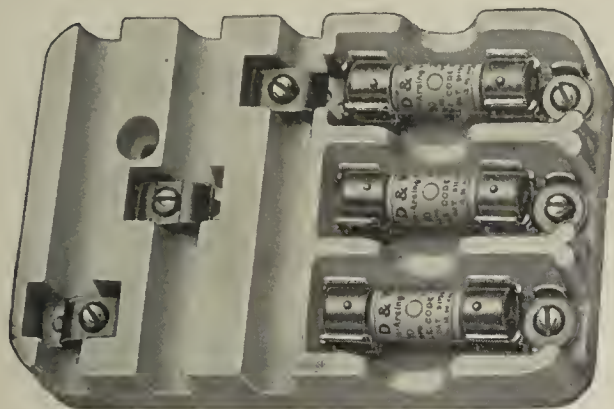
The Okonite Company, Ltd., NEW YORK.



OUR SPECIALTIES



"D & W"
ENCLOSED FUSES



"DELTABESTON"
MAGNET WIRE



APPROVED BY THE UNDERWRITERS

INDESTRUCTIBLE ASBESTOS COVERING

ALSO MANUFACTURERS OF

PORCELAIN AND IRON CUT-OUTS

FOR LIGHTING, HEATING, POWER, RAILWAY, SIGNAL, TELEPHONE
AND TELEGRAPH CIRCUITS

D & W FUSE COMPANY, Providence, R. I.



KERITE Insulated Wires and Cables For All Uses

AERIAL, UNDERGROUND and SUBMARINE
For DURABILITY use KERITE Tape



HIGHEST AWARDS WORLD'S FAIR 1893

The RIGID TEST and CONTINUOUS SERVICE of 40 YEARS has DEMONSTRATED that KERITE does not deteriorate but IMPROVES with age, and is UNEQUALLED for LIFE, SERVICE and DURABILITY

W. R. BRIXEY, Sole Manufacturer
203 BROADWAY NEW YORK

American Steel & Wire Co.

MAKERS OF

SPRINGS
WIRE ROPE
ELECTRICAL WIRES

ALSO

WIRE OF EVERY DESCRIPTION, round, flat, square, triangular and odd-shaped. Music wire, mattress, broom, weaving and market wires in all finishes. Special wires adapted to all purposes.

WIRE HOOPS, for use on lime barrels, sugar, salt produce, apple, cracker, cement and flour barrels and other slack cooperage.

TELEGRAPH and TELEPHONE WIRE, Pole steps.

RAIL BONDS, for electric railroads.

BALE TIES, for baling hay, straw, flax and all kinds of fibrous materials, also for bundling lumber, mouldings, staves and heading.

NAILS, STAPLES, SPIKES and TACKS, of all kinds. Standard wire nails in all sizes and shapes. Miscellaneous fine nails. Wire brads. Tacks in count and weight packages. Dowel Pins. R. R. Spikes.

BARBED WIRE, both two and four point; Glidden, Baker, Perfect, Ellwood, Waukegan, Lyman and Iowa brands.

SPRINGS, clock, motor, car, furniture, agricultural and all kinds of fine and heavy springs.

WOVEN WIRE FENCES.

SULPHATE OF IRON, for water purification.

COPPERAS, for chemicals, disinfectant, dyeing, purification of gas, for plate glass polishing, for wood preservative and for fertilizing.

VENETIAN RED and OXIDES OF IRON for making bridge, car, roof and all outside paints. Also for coloring paper and leather board.

POULTRY NETTING, galvanized before weaving. All meshes and sizes.

WIRE RODS, of open hearth and bessemer steel.

HORSE SHOES, "Juniata" brand, iron or steel, in all sizes and patterns. Also toe calks.

SHAFTING, COLD DRAWN STEEL, free cutting screw steel, pump rods. Roller bearing rods, rounds, squares, hexagons, flats and special shapes.

PLATES AND SHEETS of open hearth and bessemer steel.

WRITE FOR CATALOGUE AND INFORMATION TO

CHICAGO

NEW YORK

WORCESTER

DENVER

SAN FRANCISCO

MACOMBER & WHYTE ROPE CO.

MANUFACTURERS OF

WIRE ROPE

FOR

Mines, Quarries, Dredges, Logging, Saw Mills, Elevators, Etc.

"MONARCH" Wire Rope, with one Whyte Strand,
is the strongest and toughest rope made. ♣ ♣

THE "MONARCH" PATENT MINE CAR HITCHING

Macomber & Whyte Rope Co.

Home Office: 266 SOUTH CLINTON STREET, CHICAGO

NEW YORK
126 Centre Street

PITTSBURG
Times Building

SEATTLE
815 Colman Dock

Heany Fire Proof Wire Co. (Fireproof), York, Pa.
 India Rubber & Gutta Percha Insulating Co., 15 253 B'way, New York
 Indiana Rubber & Insulated Wire Co. (Paranite), Jonesboro, Ind.
 Knoblock-Heideman Mfg. Co., South Bend, Ind.
 Mallin Co. (Spooled), 641 Long av, Cleveland, O.
 Marion Insulated Wire & Rubber Co., Marion, Ind.
 Montauk Fire Detecting Wire Co., 100 William, N. Y.
 Moore, Alf. F. (All Kinds), 200 N 3d, Phila., Pa.
 National Cable & Wire Co. (Rubber Covered), Wireton, Pa.
 National Conduit & Cable Co., 41 Park row, New York
 New England Electric Works, Lisbon, N. H.
 New York Insulated Wire Co., 114 Liberty, N. Y.
OKONITE CO. (Ltd.), 253 B'way, New York. (See adv. on preceding page)
 Phillips Insulated Wire Co., Pawtucket, R. I.
ROEBLING'S, JOHN A. SONS CO. (of New York. (See adv. on following page; branch offices, end of book)
 Safety Insulated Wire & Cable Co., 114 Liberty, N. Y.
 Simplex Electrical Co., 110 State, Boston, Mass.
 Standard Underground Cable Co., Westinghouse bldg, Pittsburgh, Pa.
 Tibbals, E. C. & Co., 1201 Atlantic av, Brooklyn, N. Y.
 Washburn Wire Co., Phillipsdale, R. I., & 118th & Harlem River, N. Y.
 Western Electric Co., 259 S Clinton, Chicago, Ill., & 57 Bethune, N. Y.
 Wire & Telephone Co. of America, Rome, N. Y.

Wire (Lead)

Chadwick-Boston Lead Co., Boston, Mass.

Wire (Lead Covered)

(See Cables, Lead Covered.)

Wire (Machinery)

AMERICAN STEEL & WIRE CO., The Rookery, Chicago, Ill. (See adv. index & branch offices, end of book)
 National Wire Corporation, New Haven, Conn., & 114 Liberty, New York
 Prentiss, Geo. W. & Co., Holyoke, Mass.
 Shenandoah Steel Wire Co., Buffalo, N. Y.
 Washburn Wire Co., Phillipsdale, R. I., & 118th & Harlem River, N. Y.

Wire (Magnet)

Acme Wire Co., New Haven, Conn.
 American Electrical Works, Phillipsdale, R. I., & 26 Cortlandt, N. Y.
AMERICAN STEEL & WIRE CO., The Rookery, Chicago, Ill. (See adv. index & branch offices, end of book)
 Ansonia Brass & Copper Co., Ansonia, Conn., & 99 John, N. Y.
 Ansonia Electrical Co., Ansonia, Conn.
 Benedict & Burnham Mfg. Co., Waterbury, Conn.
 Bradford, Kyle & Co., Plymouth, Mass.
 Chicago Insulated Wire & Cable Co., 152 Lake, Chicago, Ill., & Sycamore, Ill.
 Crescent Insulated Wire & Cable Co., Trenton, N. J.
D & W FUSE CO. ("Deltabeston"), Providence, R. I. (See adv. index, end of book)
 Driver-Harris Wire Co., Harrison, N. J.
 Electric Cable Co. ("Votax"), Bridgeport, Conn.
GENERAL ELECTRIC CO., Schenectady, N. Y., & 44 Broad., New York. (See adv. index & branch offices, end of book)
 Hazard Mfg. Co., Wilkes-Barre, Pa., & 50 Dey, New York
 Kellogg Switchboard & Supply Co. (Fine), Green & Congress, Chicago, Ill.
 Knoblock-Heideman Mfg. Co., South Bend, Ind.
MICHIGAN WIRE CLOTH CO., 500 Howard, Detroit, Mich. (See adv. index, end of book)
 Moore, Alfred F., 200 N 3d, Phila., Pa.
 New England Electric Works, Lisbon, N. H.
 Rhode Island Electrical Works, Pawtucket, R. I., & 26 Cortlandt, N. Y.
ROEBLING'S, JOHN A. SONS CO. (of N. Y.), Trenton, N. J., & 117 Liberty, New York. (See adv. on following page; branch offices, end of book)

Standard Underground Cable Co., Westinghouse bldg, Pittsburgh, Pa.
 Western Electric Co., 259 S Clinton, Chicago, Ill., & 57 Bethune, New York
 Wire & Telephone Co. of America, Rome, N. Y.

Wire (Market)

Acme Wire Co. (Bright, Copper and Tinned), Cuyahoga Falls, O.
 American Cau Co. (Galvanized Wire), 447 W 14th st, New York
AMERICAN STEEL & WIRE CO., The Rookery, Chicago, Ill. (See adv. index & branch offices, end of book)
 Dewitt Wire Cloth Co., 299 B'way, New York, & Phila., Pa.
 Dillon-Griswold Wire Co. (Annealed, Bright & Galvanized), Sterling, Ill.
 Griswold Wire Co. (Annealed), Braddock, Pa.
 Hazard Mfg. Co., Wilkes-Barre, Pa., & 50 Dey, New York
 Igoe Iron & Steel Co., 226 N 9th, Brooklyn, N. Y.
 Independent Steel & Wire Co., Pittsburgh, Pa.
 Indiana Steel Wire Co., Muncie, Ind.
 Kokomo Steel & Wire Co., Kokomo, Ind.
 National Wire Corporation, New Haven, Conn., & 114 Liberty, New York
 Norton Iron Works (Inc.) (Annealed, Galvanized, etc.), Ashland, Ky.
 Pittsburgh Steel Co. (Annealed, Bright & Galvanized), Frick bldg, Pittsburgh, Pa.
 Prentiss, G. W. & Co. (Annealed), Holyoke, Mass.
ROEBLING'S, JOHN & SONS CO. (of N. Y.), Trenton, N. J., & 117 Liberty, New York. (See adv. on following page; branch offices, end of book)
 Shenandoah Steel Wire Co. (Bright, Galvanized, Tinned, Annealed, etc.), Buffalo, N. Y.
 Southern Steel Co. (Plain & Galvanized), Birmingham, Ala.
 Spencer Wire Co. (Stone & Weaving), Worcester, Mass.
 Trenton Iron Co., Trenton, N. J., & 17 Burlington Slip, New York
 Washburn Wire Co., Phillipsdale, R. I., & 118th & Harlem River, N. Y.
 Wickwire Bros. (Annealed, Bright & Galvanized), Cortland, N. Y.
WRIGHT WIRE CO. (Annealed), Bright & Galvanized, Worcester, Mass. (See adv. index & branch offices, end of book)

Wire Mats (Steel)

(See Mats & Matting, Steel Wire.)

Wire (Mattress)

Acme Wire Co. (Tinned), Cuyahoga Falls, O.
 Independent Steel & Wire Co., Pittsburgh, Pa.
 Morgan Spring Co. (Tinned), Worcester, Mass.
 National Wire Corporation, New Haven, Conn., & 114 Liberty, New York
 Shenandoah Steel Wire Co., Buffalo, N. Y.
 Spencer Wire Co., Worcester, Mass.
WRIGHT WIRE CO. (Tinned), Worcester, Mass. (See adv. index & branch offices, end of book)

Wire Nails

(See Nails, Wire.)

Wire (Norway Iron)

National Wire Corporation, New Haven, Conn., & 114 Liberty, New York
 Shenandoah Steel Wire Co., Buffalo, N. Y.

*Wire (Nut)

AMERICAN STEEL & WIRE CO., The Rookery, Chicago, Ill. (See adv. index & branch offices, end of book)

Wire (Phosphor Bronze)

AMERICAN STEEL & WIRE CO., The Rookery, Chicago, Ill. (See adv. index & branch offices, end of book)
 Babbitt-Harris Co. (Fine Wires), Clayville, N. Y.
MICHIGAN WIRE CLOTH CO., 500 Howard, Detroit, Mich. (See adv. index, end of book)
 Phosphor Bronze Smelting Co., 2200 Wash'n av, Phila., Pa.
 Riverside Metal Co., Riverside, N. J.

Wire (Piano or Music)

AMERICAN STEEL & WIRE CO., The Rookery, Chicago, Ill. (See adv. index & branch offices, end of book)
 Driver-Harris Wire Co., Harrison, N. J.
HAMMACHER, SCHLEMMER & CO. ("Felted & Guillaume" High Grade), 133 4th av, N. Y. (See adv. index, end of book)
 Malin Co. (Cast Steel), 614 Long av, Cleveland, O.
 National Wire Corporation, New Haven, Conn., & 114 Liberty, New York
 Newman, C. Wire Co., 143 Liberty, New York
 Spencer Wire Co., Worcester, Mass.
 Trenton Iron Co., Trenton, N. J., & 17 Burlington Slip, New York
 Washburn Wire Co., Phillipsdale, R. I., & 118th & Harlem River, N. Y.
 Waterbury Company (Inc.), 69 South, New York

Wire (Picture)

National Wire Corporation, New Haven, Conn., & 114 Liberty, New York
 Ossawan Mills Co., Norwich, Conn.
 Shenandoah Steel Wire Co., Buffalo, N. Y.
 Spencer Wire Co., Worcester, Mass.

Wire (Pinion)

Kidd Bros. & Burgher Steel Wire Co. (Polished), Allquippa, Pa.
 Spencer Wire Co., Worcester, Mass.
 National Wire Corporation, New Haven, Conn., & 114 Liberty, New York
 Shenandoah Steel Wire Co., Buffalo, N. Y.

Wire (Platinum)

(See Platinum Sheet & Wire.)

Wire Poultry Netting

AMERICAN STEEL & WIRE CO. (Galvanized Before Weaving, All Meshes & Sizes), The Rookery, Chicago, Ill. (See adv. index & branch offices, end of book)
 American Wire & Iron Works Co., Atlanta, Ga.
 Barbee Wire & Iron Works, 44 Dearborn, Chicago, Ill., & Lafayette, Ind.
BUFFALO WIRE WORKS CO., 316 Terrace, Buffalo, N. Y. (See adv. index, end of book)
 California Wire Cloth Co., 8 Pine, San Francisco, Cal.
CINCINNATI MFG. CO., 1243 W 6th, Cincinnati, O. (See adv. index, end of book)
CLINTON WIRE CLOTH CO., Clinton, Mass. (See adv. index & branch offices, end of book)
DARBY, EDW. & SONS CO., 239 Arch, Phila., Pa. (See adv. index, end of book)
 De Kalb Fence Co., De Kalb, Ill.
 De Witt Wire Cloth Co., 703 Market, Phila., Pa., & 299 B'way, N. Y.
 Dow Wire & Iron Works, Louisville, Ky.
 Dufur, Baggott & Co., 511 W German, Baltimore, Md.
 Eureka Fence Mfg. Co. (Acme), Richmond, Ind.
 Gilbert & Bennett Mfg. Co., Georgetown, Conn.
 Hallidie-Painter Tramway Co., 46 Fremont, San Francisco, Cal.
 Howard & Morse, 45 Fulton, N. Y.
 Majestic Wire Fence Co., Detroit, Mich.
 National Wire Corporation, New Haven, Conn., & 114 Liberty, New York
 New Jersey Wire Cloth Co., Trenton, N. J.
 Pittsburgh Steel Co., Frick bldg, Pittsburgh, Pa.
ROEBLING'S, JOHN A. SONS CO. (of N. Y.) (For Export), Trenton, N. J., & 117 Liberty, New York, N. Y. (See adv. on following page; branch offices, end of book)
 Scheeler's Sons, 316 Terrace, Buffalo, N. Y.
SMITH, F. P. WIRE & IRON WORKS, 100 Lake, Chicago, Ill. (See adv. index, end of book)
 West Coast Wire & Iron Works, San Francisco, Cal.
 Wickwire Bros., Cortlandt, N. Y.
WRIGHT WIRE CO., Worcester, Mass. (See adv. index & branch offices, end of book)

Wire (Resistance)

American Electrical Works, Phillipsdale, R. I.
 Benedict & Burnham Mfg. Co., Waterbury, Conn.
 Bradford, Kyle & Co., Plymouth, Mass.
 Carpenter Steel Co. (Electrical), Reading, Pa.
 Chicago Insulated Wire & Cable Co., 152 Lake, Chicago, Ill., & Sycamore, Ill.
 Crescent Insulated Wire & Cable Co., Trenton, N. J.

Driver-Harris Wire Co. ("Climax Advance"),
Harrison, N. J.
Coe Brass Mfg. Co., Torrington, Conn.
Moore, Alfred H., 200 N 3d, Phila., Pa.
New England Electric Works, Lisbon, N. H.
ROEBLING'S, JOHN A. SONS CO. (of
N. Y.), Trenton, N. J., & 117 Liberty, New
York. (See adv. below; branch offices end of
Seymour Mfg. Co., Seymour, Conn. book)
Washburn Wire Co., Providence, R. I.
Standard Underground Cable Co., Pittsburg, Pa.
Waterbury Brass Co., Waterbury, Conn.

Wire (Rivet, Staple, Screw, Etc.)

AMERICAN STEEL & WIRE CO.,
The Rookery, Chicago, Ill. (See adv. index
& branch offices, end of book)
Morgan Spring Co., Worcester, Mass.
National Wire Corporation, New Haven, Conn.,
114 Liberty, New York
Prentiss, Geo. W. & Co. (Staple & Screw),
Holyoke, Mass.
Shenandoah Steel Wire Co., Buffalo, N. Y.
Spencer Wire Co., Worcester, Mass.
Washburn Wire Co., Phillipsdale, R. I.

Wire Rope Coating & Lubricant

American Supply Co., 3220 2nd av., Pittsburg,
American Supply Co., Providence, R. I. Pa.
ATLAS PAINT CO. (Ltd.), 2638 Lib-
erty av., Pittsburg, Pa. (See adv. index,
end of book)
CARPENTER, GEO. B. & CO., 202 S
Water, Chicago, Ill. (See adv. index, end
of book)
DIXON, JOS. CRUCIBLE CO. (Graph-
ite), Jersey City, N. J. (See adv. index &
branch offices, end of book)
Ironsides Co., Columbus, O.
STRONG MACHINERY & SUPPLY CO.
("Cableine"), 48 Franklin, New York. (See
adv. index, end of book)
Taylor, J. W., Summerville, S. C.

Wire Rope (Phosphor Bronze)

Phosphor Bronze Smelting Co., 2200 Wash'n
av., Phila., Pa.
Reeves, Paul S. & Son, 1413 Catharine, Phila.,
Riverside Metal Co., Riverside, N. J. Pa.

Wire Rope Tramways

ALLIS-CHALMERS CO., Milwaukee,
Wis. (See adv., index, & branch offices,
end of book)
BALANCED CABLE CRANE CO.,
(The), 135 William, New York. (See adv.
opp. last page of index of Contents).
Broderick & Bascom Rope Co., St. Louis, Mo.
Davis, F. M. Iron Works Co., Denver, Col.
Denver Engineering Works Co., Denver, Col.
Dunsedau, Wm., 1732 Blake, Denver, Col.
Hallidie-Painter Tramway Co., 46 Fremont, San
Francisco, Cal.
Hazard Mfg. Co., Wilkes-Barre, Pa., & 50 Dey,
New York
KOPPEL, ARTHUR CO., 68 Broad,
New York. (See adv. index, & branch of-
fices, end of book)
Leschen, A. & Sons Rope Co. (Overhead), 920
N 1st, St. Louis, Mo.
LIDGERWOOD MFG. CO., 96 Liberty,
N. Y., & Old Colony bldg., Chicago, Ill.
(See adv. index & branch offices, end of
book)
Macomber-Wythe-Moon Co., 122 Centre, New
York
MACOMBER & WHYTE ROPE CO., 21
S Canal, Chicago, Ill., & 126 Centre, New
York. (See adv. index & branch offices, end
of book)
National Wire Corporation, New Haven, Conn.,
& 114, Liberty, New York
N. Y. CABLEWAY & ENGINEERING
Co., 1 Rector, N. Y. (See adv. index, end
of book)
ROEBLING'S, JOHN A. SONS CO. (of
N. Y.), Trenton, N. J., & 117 Liberty,
New York. (See adv. below; branch offices,
end of book)
Trenton Iron Co., Trenton, N. J., & 17 Burling
Slip, New York.
United Telpherage Co., 20 Broad, N. Y.
WIENER, ERNST CO., 68 Broad, New
York. (See adv. index, end of book)

Wire Rope & Cables

AMERICAN STEEL & WIRE CO.,
The Rookery, Chicago, Ill. (See adv. index
& branch offices, end of book)

Broderick & Bascom Rope Co., 809 N Main,
St. Louis, Mo.
CARPENTER, GEO. B. & CO., 202 S
Water, Chicago, Ill. (See adv. index, end
of book)
Durable Wire Rope Co. (Durable), 28 Atlantic
av., Boston, Mass.
Hallidie-Painter Tramway Co., 46 Fremont, San
Francisco, Cal.
Hazard Mfg. Co., Wilkes-Barre, Pa., & 50 Dey,
New York
Independent Steel & Wire Co., Pittsburg, Pa.
Jessop, Wm. & Sons (Ltd.), 95 John, New York.
Works: Sheffield, Eng.
Leschen, A. & Sons Rope Co., St. Louis, Mo.
Macomber-Wythe-Moon Co., 122 Centre, New
York
MACOMBER & WHYTE ROPE CO.,
21 S Canal, Chicago, Ill., & 126 Centre,
New York. (See adv. index, & branch of-
fices, end of book)
National Wire Corporation, New Haven, Conn.,
& 114 Liberty, New York
ROEBLING'S, JOHN A. SONS CO. (of
New Yor. (See adv. below; branch offices,
end of book)
Trenton Iron Co. (Iron & Steel), Trenton, N.
J., & 17 Burling Slip, New York
Washburn Wire Co., Phillipsdale, R. I., & 118th
& E. R., New York, N. Y.
Waterbury Co. (Inc.), ("Giant"), 69 South,
New York
Williamsport Wire Rope Co., Williamsport, Pa.
WRIGHT WIRE CO., Worcester,
Mass. (See adv. index, & branch offices,
end of book)

Wire (Rubber Covered)

American Electrical Works, Phillipsdale, R. I.,
Bishop Gutta Percha Co. (Solid & Flexible),
422 E 25th, New York
BRIXEY, W. R. ("Kerite"), 203
B'way, New York. (See adv. index, end of
book)
Collyer Insulated Wire Co., Pawtucket, R. I.
Eastern Electric Cable Co., 61 Hampshire, Bos-
ton, Mass.
India Rubber & Gutta Percha Insulating Co.,
253 B'way, New York
Indiana Rubber & Insulated Wire Co., Jones-
boro, Ind.

JOHN A. ROEBLING'S SONS CO. OF NEW YORK

117-121 Liberty Street, NEW YORK CITY, N. Y.



WORKS, TRENTON, N. J.

Manufacturers
of Highest
Grade

WIRE ROPE

TROLLEY WIRE A SPECIALTY

Bare and Insulated Elec-
trical Wires and Cables of
every description and for
all purposes

Marion Insulated Wire & Rubber Co. (Cables), Marion, Ind.
 Moore, Alfred F. (Solid & Flexible), 202 N 3d, Philadelphia, Pa.
 National Cable & Wire Co., Wireton, Pa.
 National India Rubber Co., Bristol, R. I.
 Phillips Insulated Wire Co., Pawtucket, R. I.
 Standard Underground Cable Co., Westinghouse bldg, Pittsburg, Pa.

Wire (Rule)

AMERICAN STEEL & WIRE CO.
 The Rookery, Chicago, Ill. (See adv. index & branch offices, end of book)
 National Wire Corporation, New Haven, Conn., & 114 Liberty, New York
 Newman, C. Wire Co., 143 Liberty, New York
 Washburn Wire Co., Phillipsdale, R. I., & 118th & Harlem River, N. Y.

Wire (Screen)

AMERICAN STEEL & WIRE CO.
 The Rookery, Chicago, Ill. (See adv. index & branch offices, end of book)
 Dewitt Wire Cloth Co., 299 B'way, New York, & Phila., Pa.
 National Wire Corporation, New Haven, Conn., & 114 Liberty, New York
 Shenandoah Steel Wire Co., Buffalo, N. Y.
 Spencer Wire Co., Worcester, Co.

Wire Shapes (Special)

Brooks, M. S. & Sons, Chester, Coun.
 Climax Tag Co., Dayton, O.
 Jenckes, E. Mfg. Co., Pawtucket, R. I.
 Jenkinson, R. C. & Co., 289 Washington, Newark, N. J.
 Shenandoah Steel Wire Co., Buffalo, N. Y.
 Spencer Wire Co., Worcester, Mass.
 Titchener, E. H. & Co., Binghamton, N. Y.
 Wire Specialty Co., 30 W Randolph, Chicago, Ill.

Wire Specialties

(See Wire Goods Mfrs.)

Wire (Spoke)

National Wire Corporation, New Haven, Conn., & 114 Liberty, New York
 Spencer Wire Co., Worcester, Mass.
 Washburn Wire Co., Phillipsdale, R. I., & 118th & Harlem River, N. Y.

Wire (Spooled)

AMERICAN STEEL & WIRE CO.
 The Rookery, Chicago, Ill. (See adv. index & branch offices, end of book)
 Ansonia Brass & Copper Co., Ansonia, Conn., & 99 John, New York
 Coc Brass Mfg. Co., Torrington, Conn.
 Eastwood Wire Mfg. Co. (Brass & Copper), Belleville, N. J.

Malin Co., 641 Long av, Cleveland, O.
 National Wire Corporation, New Haven, Conn., & 114 Liberty, New York
 Rome Brass & Copper Co., Rome, N. Y.
 Shenandoah Steel Wire Co., Buffalo, N. Y.
 Spencer Wire Co., Worcester, Mass.
 Wire Goods Co., Worcester, Mass.

WRIGHT WIRE CO., Worcester, Mass. (See adv. index & branch offices, end of book)

Wire (Square)

Independent Steel & Wire Co., Pittsburg, Pa.

Wire (Steel)

Acme Wire Co., Cuyahoga Falls, O.
AMERICAN STEEL & WIRE CO.
 The Rookery, Chicago, Ill. (See adv. index & branch offices, end of book)
 Carpenter Steel Co. (High Grade), Reading, Pa.
 Cedarburg Wire & Wire Nail Co., Cedarburg, Wis.
 Crawfordville Wire & Nail Co., Crawfordville, Ind.
 Crucible Steel Co. of America, Frick bldg, Pittsburg, Pa.
 Dillon-Griswold Wire Co., Sterling, Ill.
 Driver-Harris Wire Co. (Fine Steel), Harrison, N. J.
 Globe Wire Co. (Drawn Steel), Sharpsburg, Pa.
 Graud Crossing Tack Co., S Chicago av & 79th, Chicago, Ill.
 Hamilton's, T. Sons, 1346 E Berks, Phila., Pa.

Hazard Mfg. Co. (Cast Steel), Wilkes-Barre, Pa., & 50 Dey, New York
 Igoc Iron & Steel Co. (Also Iron), 226 N 9th, Brooklyn, N. Y.
 Independent Steel & Wire Co. (Basic & Bessemer), Pittsburg, Pa.

Indiana Steel Wire Co., Muncie, Ind.
 Kidd Bros. & Burgher Steel Wire Co. (Coiled Crucible Polished), Aliquippa, Pa.

Kokomo Steel & Wire Co., Kokomo, Ind.
 Morgan Spring Co., Worcester, Mass.
 National Wire Corporation, New Haven, Conn., & 114 Liberty, New York
 New Process Mfg. Co., St. Louis, Mo.

Newman, C. Wire Co., 143 Liberty, New York
 Norton Iron Works, Ashland, N. Y.
 Pittsburg Steel Co., Frick bldg, Pittsburg, Pa.
 Pittsburg Tool Steel Wire Co., Monaco, Pa.

ROEBLING'S, JOHN A. SONS CO. (of N. Y.), Trenton, N. J., & 117 Liberty, New York. (See adv. on preceding page; branch offices, end of book)

Shenandoah Steel Wire Co. (Basic, Bessemer, Charcoal, etc.), Buffalo, N. Y. (Works at West Seneca, N. Y.)

Spencer Wire Co., Worcester, Mass.
 Townsend, C. C. & E. P., New Brighton, Pa.
 Trenton Iron Co., Trenton, N. J., & 17 Burling Slip, New York

Washburn Wire Co., Phillipsdale, R. I., & 118th & Harlem River, N. Y.

Wickwire Bros., Cortland, N. Y.

WRIGHT WIRE CO., Worcester, Mass. (See adv. index & branch offices, end of book)

Wire (Steel Ball)

AMERICAN STEEL & WIRE CO.
 The Rookery, Chicago, Ill. (See adv. index & branch offices, end of book)
 National Wire Corporation, New Haven, Conn., & 114 Liberty, New York
 Washburn Wire Co., Phillipsdale, R. I., & 118th & Harlem River, N. Y.

Wire (Steel, Band & Hack Saw)

Newman, C. Wire Co., 143 Liberty, New York
 Washburn Wire Co., Phillipsdale, R. I., & 118th & Harlem River, N. Y.

Wire (Steel Brush)

(See Wire, Broom & Brush.)

Wire (Steel Needle)

AMERICAN STEEL & WIRE CO.
 The Rookery, Chicago, Ill. (See adv. index & branch offices, end of book)
 Kidd Bros. & Burgher Steel Co. (Polished, Dry Thread & Latch & Spring), Aliquippa, Pa.
 National Wire Corporation, New Haven, Conn., & 114 Liberty, New York
 Pittsburg Tool Steel Wire Co., Monaco, Pa.
 Washburn Wire Co., Phillipsdale, R. I., & 118th & Harlem River, N. Y.

Wire (Steel Spring)

Acme Wire Co., Cuyahoga Falls, O.
AMERICAN STEEL & WIRE CO.
 The Rookery, Chicago, Ill. (See adv. index & branch offices, end of book)
 Hartley, Geo. (Cast Steel Watch, Clock, etc.), Waterbury, Conn.

Independent Steel & Wire Co., Pittsburg, Pa.
 Kidd Bros. & Burgher Steel Wire Co. (Crucible Coiled Polished), Aliquippa, Pa.
 Morgan Spring Co., Worcester, Mass.
 National Wire Corporation, New Haven, Conn., & 114 Liberty, New York

Newman, C. Wire Co., 143 Liberty, New York
ROEBLING'S, JOHN A. SONS CO. (of N. Y.), Trenton, N. J., & 117 Liberty, New York. (See adv. on preceding page; branch offices, end of book)

Spencer Wire Co., Worcester, Mass.
 Trenton Iron Co., Trenton, N. J., & 17 Burling sl, New York

Washburn Wire Co. (Clock & Motor, etc.), Phillipsdale, R. I., & 118th & Harlem River, N. Y.

Wire (Steel, Telephone & Telegraph)

ROEBLING'S, JOHN A. & SONS CO. (of N. Y.), Trenton, N. J., & 117 Liberty, New York. (See adv. on preceding page; branch offices, end of book)
 Trenton Iron Co., Trenton, N. J., & 17 Burling sl, New York

Wire Straighteners (Roll & Rotary)

(See Machinery.)

Wire Straighteners & Cutters (Automatic)

Franklin Mfg. Co. (Crackerjack), 133 Mill River, New Haven, Conn.
 Hoefler Mfg. Co., Freeport, Ill.
 Kokomo Steel & Wire Co., Kokomo, Ind.

Wire (Strand)

Broderick & Bascom Rope Co., 809 N Main, St. Louis, Mo.
 Dewitt Wire Cloth Co., 299 B'way, New York, & Phila., Pa.
 Hazard Mfg. Co. (Galvanized Steel), Wilkes-Barre, Pa., & 50 Dey, New York
 Leschen, A. & Sons Rope Co., 920 N 1st, St. Louis, Mo.
MACOMBER & WYTHE ROPE CO., 21 S Canal, Chicago, Ill., & 126 Centre, New York. (See adv. index & branch offices, end of book)
 National Wire Corporation (Galvanized), New Haven, Conn., & 114 Liberty, New York

Wire Stretchers

(See Stretchers, Wire.)

Wire (Sub-Marine)

(See Cables, Sub-Marine.)

Wire (Tack)

AMERICAN STEEL & WIRE CO.
 The Rookery, Chicago, Ill. (See adv. index & branch offices, end of book)
 National Wire Corporation, New Haven, Conn., & 114 Liberty, New York
 Shenandoah Steel Wire Co., Buffalo, N. Y.
 Spencer Wire Co., Worcester, Mass.
 Washburn Wire Co., Phillipsdale, R. I., & 118th & Harlem River, N. Y.

Wire (Tag)

National Wire Corporation (Tinned), New Haven, Conn., & 114 Liberty, New York
 Shenandoah Steel Wire Co., Buffalo, N. Y.
 Spencer Wire Co., Worcester, Mass.
WRIGHT WIRE CO. (Cut or Bunched), Worcester, Mass. (See adv. index & branch offices, end of book)

Wire (Telephone & Telegraph)

American Electrical Works, Phillipsdale, R. I.
AMERICAN STEEL & WIRE CO.
 The Rookery, Chicago, Ill. (See adv. index & branch offices, end of book)
 Atlantic Insulated Wire & Cable Co., 120 Liberty, New York, & Stamford, Conn.
BRIXEV, W. R. ("Kerite"), 203 B'way, New York. (See adv. index, end of book)

Collyer Insulated Wire Co., Pawtucket, R. I.
 Crawfordville Wire & Nail Co., Crawfordville, Ind.

Indiana Rubber & Insulated Wire Co. ("Paranite"), Jonesboro, Ind.
MICHIGAN WIRE CLOTH CO., 500 Howard, Detroit, Mich. (See adv. index, end of book)

National Wire Corporation, New Haven, Conn., & 114 Liberty, New York
 Phillips Insulated Wire Co., Pawtucket, R. I.

ROEBLING'S, JOHN A. SONS CO. (of N. Y.), Trenton, N. J., & 117 Liberty, New York. (See adv. on preceding page; branch offices, end of book)

Standard Underground Cable Co., Westinghouse bldg, Pittsburg, Pa.

Washburn Wire Co. (Galvanized Iron & Steel), Phillipsdale, R. I., & 118th & Harlem River, N. Y.

Wire & Telephone Co. of America (Telephone), Rome, N. Y.

Wire Testing Machines

(See Machines, Wire Testing.)

Wire (Tinned)

Acme Wire Co., Cuyahoga Falls, O.
AMERICAN STEEL & WIRE CO.,
 The Rookery, Chicago, Ill. (See adv. index
 & branch offices, end of book)
 National Wire Corporation, New Haven, Conn.,
 & 114 Liberty, New York
 Igoe Iron & Steel Co., 226 N 9th, Brooklyn,
 N. Y.
 Independent Steel & Wire Co., Pittsburg, Pa.
 Pittsburg Steel Co., Frick bldg, Pittsburg, Pa.
 Prentiss, G. W. & Co., Holyoke, Mass.
 Shenandoah Steel Wire Co., Buffalo, N. Y.
 Spargo, Jas. A. Wire Co. (Tinned Copper),
 Rome, N. Y.
 Spencer Wire Co., Worcester, Mass.
 Trenton Iron Co., Trenton, N. J., & 17 Burling
 Slip, New York
 Washburn Wire Co., Phillipsdale, R. I., &
 118th & Harlem River, N. Y.
 Wickwire Bros., Cortland, N. Y.
WRIGHT WIRE CO., Worcester,
 Mass. (See adv. index & branch offices, end
 of book)

Wire Trellises

AMOS, CHARLES & CO., 94 W
 Larned, Detroit, Mich. (See adv. index, end
 of book)
BOLLES, J. E. IRON & WIRE
 Works, 4th av & Porter, Detroit, Mich. (See
 adv. index, end of book)
BUFFALO WIRE WORKS CO., 316
 Terrace, Buffalo, N. Y. (See adv. index,
 end of book)
FOREST CITY STEEL & IRON CO.,
 Cleveland, O. (See adv. index, end of book)
 Spencer Wire Co., Worcester, Mass.

Wire (Trolley)

American Electrical Works, Phillipsdale, R. I.
AMERICAN STEEL & WIRE CO.,
 The Rookery, Chicago, Ill. (See adv. index
 & branch offices, end of book)
 Ansonia Brass & Copper Co., Ansonia, Conn., &
 99 John, New York
 Benedict & Burnham Mfg. Co., Waterbury,
 Conn.
 Coe Brass Mfg. Co., Torrington, Conn.
 Collyer Insulated Wire Co., Pawtucket, R. I.
 Hendricks Bros., 49 Cliff, N. Y.
 Phillips Insulated Wire Co., Pawtucket, R. I.
ROEBLING'S, JOHN A. SONS CO. (of
 N. Y.), Trenton, N. J., & 117 Liberty,
 New York. (See adv. index & branch of-
 fices, end of book)
 Trenton Iron Co., Trenton, N. J., & 17 Burling
 Slip, New York

Wire (Twisted)

National Wire Corporation, New Haven, Conn.,
 & 114 Liberty, New York
 Saurbrey, Geo. J. (in 5999 Ft. Coils & Cut to
 Small Lengths), 259 E Livingstone av, Co-
 lumbus, O.
 Spencer Wire Co., Worcester, Mass.

Wire (Umbrella)

AMERICAN STEEL & WIRE CO.,
 The Rookery, Chicago, Ill. (See adv. index
 & branch offices, end of book)
 National Wire Corporation, New Haven, Conn.,
 & 114 Liberty, New York
 Washburn Wire Co., Phillipsdale, R. I., & 118th
 & Harlem River, N. Y.

Wire (Waterproof)

Collyer Insulated Wire Co., Pawtucket, R. I.
GENERAL ELECTRIC CO., Sche-
 nectady, N. Y., & 44 Broad, N. Y. (See
 adv. index & branch offices, end of book)

Wire (Weatherproof)

American Electrical Works, Phillipsdale, R. I.,
 & 26 Cortlandt, N. Y.
AMERICAN STEEL & WIRE CO.,
 The Rookery, Chicago, Ill. (See adv. index
 & branch offices, end of book)
 Ansonia Brass & Copper Co., Ansonia, Conn., &
 99 John, New York
 Ansonia Electrical Co., Ansonia, Conn.
 Benedict & Burnham Mfg. Co., Waterbury,
 Conn.
 Bridgeport Brass Co., Bridgeport, Conn., & 19
 Murray, New York

BRIXEY, W. R. ("Kerite" Special)
 203 B'way, New York. (See adv. index, end
 of book)

Chicago Insulated Wire and Mfg. Co., 152
 Lake, Chicago, Ill.
 Coe Brass Mfg. Co., Torrington, Conn.
 Collyer Insulated Wire Co. (Also Slow Burning),
 Pawtucket, R. I.
 Crescent Insulated Wire & Cable Co., Trenton,
 N. J.

GENERAL ELECTRIC CO., Sche-
 nectady, N. Y., & 44 Broad, New York.
 (See adv. index & branch offices, end of
 book)

Hazard Mfg. Co. (Insulated), Wilkes-Barre,
 Pa., & 50 Dey, New York
 Moore, Alfred F. (Also Slow Burning), 200 N 3d,
 Philadelphia, Pa.

National Conduit & Cable Co. (Wire & Cables),
 41 Park Row, New York
OKONITE CO. (Ltd.), 253 B'way, New
 York. (See adv. index, end of book)

Phillips Insulated Wire Co. (Slow Burning),
 Pawtucket, R. I.
ROEBLING'S, JOHN A. SONS CO. (of
 N. Y.), Trenton, N. J., & 117 Liberty,
 New York. (See adv. index & branch of-
 fices, end of book)

Simplex Electrical Co., 110 State, Boston, Mass.
 Standard Underground Cable Co., Westinghouse
 bldg, Pittsburg, Pa.
 Western Electric Co., 259 S Clinton, Chicago, &
 57 Bethune, New York

Wire Weaving

Morgan Spring Co., Worcester, Mass.
 National Wire Corporation, New Haven, Conn.,
 & 114 Liberty, New York
 Sheuanhoah Steel Wire Co., Buffalo, N. Y.

*Wire Winding on Hose

BOSTON BELTING CO., 260 Devon-
 shire, Boston, Mass., & 100 Reade, New
 York (See adv. index & branch offices, end
 of book)

Wire Workers

Acme Fancy Wire Works, c Canfield av & Mo-
 ran, Detroit, Mich.
 Adams Steel & Wire Works, Joliet, Ill.
AJAX IRON & WIRE CO., 75 York,
 Brooklyn, N. Y. (See adv. index, end of
 book)

American Fence & Forge Co., Dayton, O.
 American Iron & Wire Works, c Jefferson & W
 Lake, Chicago

AMERICAN STEEL & WIRE CO.,
 The Rookery, Chicago, Ill. (See adv. index
 & branch offices, end of book)

AMOS, CHARLES & CO., 94 W
 Larned, Detroit, Mich. (See adv. index, end
 of book)

Anderson, H. C., 414 Bleecker, New York
 Andrews Wire & Iron Works Co., Rockford, Ill.
 Architectural Iron & Wire Works, Wheeling, W.
 Va.

Atlanta Wire & Iron Works Co., 64 N Broad,
 Atlanta, Ga.
 Auel, F. & E., 2504 Cadwallader, Phila., Pa.
 Baker Mfg. Co., c South & Allegheny avs, Alle-
 gheny, Pa.

Balderston H. & Son, 319 Pearl, Baltimore, Md.
 Baldwin Brass Works (Wire Guards, etc.), 232
 S Canal, Chicago, Ill.

Baltimore Wire Works, 119 Light, Baltimore,
 Md.

Barnes, T. M., 151 Middle, Bridgeport, Conn.
 Barnum, E. T. Wire & Iron Works, Detroit.
 Baroch, Leo, 503 S 13th, Omaha, Neb. Mich

Bataille, Achille & Co., 587 Hudson, New York
 Belser, R. W. Co., 1 Madison av, New York
 Belmer, H. & Co., 12 E 2d, Cincinnati, O.

Beuster Wire & Iron Works Co., 55 Main, S E,
 Toledo, O.
 Berger, A. A., 212 Crawford, Houston, Tex.

BIGELOW, CHENEY WIRE WORKS,
 Springfield, Mass. (See adv. index, end of
 book)

Boerner, W. R., 1162 Milwaukee av, Chicago, Ill.
BOILES, J. E. IRON & WIRE
 Works, 4th av & Porter, Detroit, Mich. (See
 adv. index, end of book)

Booth, John, Wire & Iron Works, 37 Indiana,
 Chicago, Ill.
 Bridgeport Wire & Iron Works, Bridgeport, Pa.

Bromwell Brush & Wire Goods Co., 612 W 6th,
 Cincinnati, O.
 Buckeye Ornamental Iron Works Co., 33 Acad-
 emy, Cleveland, O.

BUFFALO WIRE WORKS CO., Buf-
 falo, N. Y. (See adv. index, end of book)
 Bnrgin, J. F., 610 E Diamond, Allegheny, Pa.

BURROWES, E. T. CO., Portland, Me.
 (See adv. index & branch offices, end of
 book)

Calre, Justinian Co., 565 Market, San Francisco,
 Cal.

California Artistic Metal & Wire Co., 539 Mis-
 sion, San Francisco, Cal.
 California Wire Cloth Co., 8 Pine, San Fran-
 cisco, Cal.

Carr Bros., 5311 W Lake av, Chicago, Ill.
 Central Wire & Iron Works, Indianapolis, Ind.
 Central Wire Works (Michael O'Neill), 1531 Fil-
 bert, Philadelphia, Pa.

Champion Iron & Wire Works, 617 S 16th,
 Omaha, Neb.

CINCINNATI MFG. CO., 1243 W 6th,
 Cincinnati, O. (See adv. index, end of book)
CITY FORGE & IRON WORKS, (An-
 drew Plocher, Prop.), Dayton, O. (See adv.
 index, end of book)

CLINTON WIRE CLOTH CO., Chin-
 ton, Mass. (See adv. index & branch offices,
 end of book)

Coleman, Wm. B., 34 W 8th, Covington, Ky.
 Columbia Iron & Wire Works, Co., Canton, O.
COLUMBUS WIRE & IRON WORKS
 Co., Columbus, O. (See adv. index, end of
 book)

Coons, F. W., 427 River, Troy, N. Y.
 Cornwall, Edwin, 818 Mint av, Pittsburg, Pa.
 Cream City Woven Wire Works, Milwaukee, Wis.

DARBY, EDW. & SONS CO., 239 Arch,
 Phila., Pa. (See adv. index, end of book)
 Davis, Wm. P., 248 Chenango, Binghamton, N. Y.

Dean, Hy. E. & Co., Worcester, Mass.
 Des Moines Mfg. & Supply Co., Des Moines, Ia.
 Des Moines Wire Works, 113 Locust, Des
 Moines, Ia.

De Witt Wire Cloth Co., 299 B'way, New York,
 & 703 Market, Phila., Pa.

DONOVAN WIRE & IRON CO. (Plain
 & Ornamental), Chicago, St. & W. & L. E.
 R'y, Toledo, O. (See adv. index, end of
 book)

Durfur & Co., 311 N. Howard, Baltimore, Md.
 Elder, Henry, 127 S Market, Nashville, Tenn.
 Eshner, Louis, 56 N 7th, Philadelphia, Pa.

ESTEY WIRE WORKS CO., 59 Ful-
 ton, New York. (See adv. index, end of
 book)

Excelsior Wire Works, 565 Market, San Fran-
 cisco, Cal.

Fachmann, H. W., 130 E Wash'n, Indianapolis,
 Ind.

Fennell, James K. Co., 1106 Sansome, Phila.,
 Pa.

Fiske, J. W. Iron Works, 39 Park pl, New
 York

Flour City Ornamental Iron Works, 27th av
 27th, S Minneapolis, Minn.

FOREST CITY STEEL & IRON CO.,
 110th nr Detroit av., Cleveland, O. (See adv.
 index, end of book)

Forman, Robt. J., 127 Court, Brooklyn, N. Y.
 Fraser, Russell, 128 Wythe av, Brooklyn, N. Y.

Fruhling, Wm. A., Los Angeles, Cal.
 Gilbert & Bennet Mfg. Co., Georgetown, Conn.
 Globe Wire & Iron Works, Atkinson av, Mil-
 waukee, Wis.

Hamilton's, Thos. Sons, 1340 E Berks, Phila-
 delphia, Pa.

Hennecke, C. Co., 380 B'way, Milwaukee, Wis.
HICKEY, M. H., WIRE & IRON
 Works, 54 Dearborn, Chicago, Ill.

Hollenbeck, Chas. D., 32 W Maryland, India-
 napolis, Ind.

Hopkins & Co., 198 W B'way, New York
 Howard & Morse, 45 Fulton, New York

Huxley, John H., 133 Liberty, New York, N. Y.
 Imperial Wire & Iron Roofing Co., 221 W Mar-
 ket, Louisville, Ky.

Jackson & Cook, 318 Market, Philadelphia, Pa.
KAMMAN, WALTER, Front & Law-
 rence, Cincinnati, O. (See adv. index, end
 of book)

Kansas City Wire & Iron Works, 1428 Oak,
 Kansas City, Mo.

Kentucky Wire Works, 120 W Market, Louis-
 ville, Ky.
 Keystone Iron & Wire Railing Works, 618 Wil-
 low, Phila., Pa.

Kilbourne Mfg. Co., Fair Haven, Vt.
 Kleeman, Trotter & Co., 1327 Main, Kansas
 City, Mo.

Kratzer, W. N. & Co., 3220 Smallman, Pitts-
 burg, Pa.

Kuettel, E. Jos., 511 Lack. av, Scranton, Pa.

LANDON, E. R. IRON & WIRE WKS,
 1243 Fillmore, Chicago, Ill. (See adv. index,
 end of book)

Lasar-Letzlg Mfg. Co., 1313 N 16th, St. Louis,
 Mo.

Long Island Wire Works, 30 Boerum pl, Brook-
 lyn, N. Y.

Louisville Wire Works (Inc.), 730 W Market, Louisville, Ky.
 Love Bros. (Inc.), Aurora, Ill.
 Ludlow-Saylor Wire Co., 4th, e Elm, St. Louis, Mo.
 McCormack Wire & Iron Works, 770 Fulton, Brooklyn, N. Y.
 Maryland Wire Works, 16 N. Frederick, Baltimore, Md.
 May, Jacob, 850 DeKalb av, Brooklyn, N. Y.
 Megquier & Jones Co., Portland, Me.
 Mehes, John, 245 Minna, San Francisco, Cal.
 Melocik, Henry, 1313 Ashland av., Baltimore, Md.
 Mesker, Geo. L. & Co., Evansville, Ind.
MICHIGAN WIRE CLOTH CO., 500
 Howard, Detroit, Mich. (See adv. index, end of book)
 Muth, Christian, 428 Blue Island av, Chicago, Ill.
 Nagel Co., 656 Michigan, Buffalo, N. Y.
 National Iron & Wire Co., Cleveland, O.
NATIONAL MFG. CO., Worcester,
 Mass. (See adv. index & branch offices, end of book)
 Newark Wire & Brass Works, 261 Market, Newark, N. J.
 N. Y. Brass & Wire Works Co., 177 Grand, New York
 Nimmo Fence Co., 324 E 4th, Cincinnati, O.
 Norwood, King & Weis, 30 Boerum, Brooklyn, N. Y.
OHIO STRUCTURAL IRON CO., Sandusky, O. (See adv. index, end of book)
 Ornamental Iron & Wire Works Co. (Inc.), Portsmouth, Va.
 Perkins Mfg. Co., St. Paul, Minn.
 Phila. Ornamental Wire Co., 525 Commerce, Phila., Pa.
 Phoenix Wire Works, Detroit, Mich.
 Pioneer Iron & Wire Works Co., 1437 Market, Denver, Col.
 Pirrie, Campbell, 194 Edmund, Paterson, N. J.
PITT. WM. R. COMPOSITE IRON
 Works, 136-138 W 24th, New York. (See adv. index, end of book)
 Portland Wire & Iron Works, Portland, Ore.
 Purcell, N. F. & Co., 232 S Clinton, Chicago, Ill.
 Queen City Wire Works, 193 Seneca, Buffalo, N. Y.
 Rice & Co., 251 Mt. Vernon, Lowell, Mass.
 Roberts-Goss Co., 4th c Pine, St. Paul, Minn.
 Russian Wire Works, 31 Minna, San Francisco, Cal.
 St. Louis Wire & Iron Co., 520 Chouteau av, St. Louis, Mo.
 San Francisco Novelty & Plating Works, 515 Mission, San Francisco, Cal.
SMITH, F. P. WIRE & IRON WORKS,
 100 Lake, Chicago, Ill. (See adv. index, end of book)
 Snow Wire Works Co., 76 Exchange, Rochester, N. Y.
 Standard Wire & Iron Co., Leonard & Hume, Cleveland, O.
 Stidman & Co., 16 N. Frederick, Baltimore, Md.
 Strawbridge & Chase (Ltd.), 228 Arch, Phila., Pa.
 Sutton, Wm. A. & Co., 926 N 19th, Phila., Pa.
 Syracuse Wire Works, Syracuse, N. Y.
TAYLOR & DEAN, 205 Market, Pittsburg,
 Pa. (See adv. index, end of book)
 Titchener, E. H. & Co., Binghamton, N. Y.
 Turner & Seymour Mfg. Co., Torrington, Conn.
 Twin City Iron & Wire Works, 223 E 6th, St. Paul, Minn.
 Voss, Fred., 617 to 621 Austin av, Chicago, Ill.
VULCAN CO., Detroit, Mich. (See adv. index, end of book)
 Watt, Reuben J., 47 S Canal, Chicago, Ill.
 West Coast Wire & Iron Works, 17 Fremont, San Francisco, Cal.
 Western Wire Works, San Francisco, Cal.
 Westervelt, A. B. & W. T., 102 Chambers, N. Y.
 What Cheer Wire Works, 157 Dorrance, Providence, R. I.
 White Brothers Mfg. Co., successors to the Denver Iron & Wire Works Co., office 209 Continental Bldg., Works W 12th av & S 4th, Denver, Colo.
 White Wire Works Co., Rochester, N. Y.
 Whyte, Oliver & Co., 17 Cornhill, Boston, Mass.
 Williams, Geo. A. & Sons, 85 Fulton, N. Y.
 Wilson, H. P. & H. F., 577 10th av, N. Y.
 Wisconsin Iron & Wire Works, 186 E Water, Milwaukee, Wis.
 Youngstown Wire & Iron Co., Youngstown, O.

Wire Working Machinery

(See Machinery, etc.)

Wire (Zinc)

Lanyon Zinc Co., 308 N 6th, St. Louis, Mo.

Wire & Cables (Rubber Covered)

(See Wire, Rubber Covered.)

Wires (Threaded)

Ohio Nut & Bolt Co., Berea, O.
 Progressive Mfg. Co. (To Order Only), Torrington, Conn.

Wood Bending Machines

(See Machines, Wood Bending.)

Wood (Bent)

Dann Bros & Co. (To Order), New Haven, Conn.

Gillette, C. H. & Co., Indianapolis, Ind.
 Gillette, C. H. & Son, Jonesboro, Ark.
 Gillette, W. H., Louisville, Ky.
 Von Behren-Russell Co., Louisville, Ky.

Wood Carpets

(See also Floor, Parquet.)

American Parquetry Floor Co., 1124 Walnut, Phila., Pa.
 Chicago Floor Co., 14 Monroe, Chicago, Ill.
 Dunfee, J & Co., 59 N Claremont av, Chicago, Ill.
 Heaton & Wood, 1706 Chestnut, Phila., Pa.
 Johnson, S. C. & Son, Racine, Wis.
 Inlaid Floor Co., 422 Sutter, San Francisco, Cal.

THE INTERIOR HARDWOOD CO MANUFACTURERS INDIANAPOLIS, IND.

(See adv. index, end of book)

Moore, E. B. & Co., 76 Wabash av, Chicago, Ill.
 Moore, A. G. Co., Boston, Mass.
 Moore Floor Co., Los Angeles, Cal.
 Moore, J. C. Co., 38 S 18th, Phila., Pa.
 Motley, Peter, 750 S Broad, Phila., Pa.
 Nelson, G. S., Des Moines, Ia.
 Newcomb, E. R. (Mfrs.' Agt.), 14 Monroe, Chicago, Ill.

New York Flexible Wood Flooring Co., 37 W 42d, New York

Phelps Bros. & Co., Wellington, O.
 Roach & Musser Sash & Door Co., Muscatine, Ia.

Pope, Chas. A., 726 Lexington av., New York.
 Reid, Wm. G. & Co., 2 W 33d, N. Y.

St. Paul Parquet Co., 376 St. Peter, St. Paul, Minn.

Schulkins & Co., 407 Prospect, Cleveland, O.
 St. Paul Parquet Floor Co., Ryan bldg, St. Paul, Minn.

Terwilliger Mfg. Co., 3 W 23d, N. Y., & 302 Fulton, Brooklyn, N. Y.

WOOD-MOSAIC FLOORING & LUMBER CO., Main Office & Factory, Rochester, N. Y. (See adv. index & branch offices, end of book)

Wood Columns

(See Columns, Porch.)

Wood Fillers

Acme White Lead & Color Works, Detroit, Mich.

Adams & Elting Co., 155 W Wash'n, Chicago, Ill.

Allentown Mfg. Co. (Paste), Allentown, Pa.
 Armitage, Jno. L. & Co., Thomas c Dawson, Newark, N. J.

Atlantic Drier & Varnish Co., S Swanson & McKean, Phila., Pa.

ATLAS PAINT CO. (Ltd.), 2638 Liberty av, Pittsburg, Pa. (See adv. index, end of book)

Baldwin Filler & Varnish Co., Wyoming, Pa.
 Barrett-Lindemann Co., 1402 Frankford av, Phila., Pa.

Blood, T. L. & Co., St. Paul, Minn.
 Bradford, Jas. Co., 6 E 3d, Wilmington, Del.

Bridgeport Wood Finishing Co. ("Wheeler's"), New Milford, Conn.

Buckeye Paint & Varnish Co., Toledo, O.
 Burdsal, A. Co., 102 S Meridian, Indianapolis, Ind.

Butterworth, C. H. & Co. ("American"), 125 Market, Phila., Pa.

Canton Paint & Varnish Co., Canton, O.
 Chase, Roberts & Co., Long Island City, N. Y.
 Chicago Wood Finishing Co., 259 Elston, Chicago, Ill.

Devoe, F. W. & T. C. Reynolds, 101 Fulton, New York

Eagle Paint & Varnish Co., Allegheny, Pa.
 Felton, Sihley & Co., 136 N 4th, Phila., Pa.

Forest City Paint & Varnish Co., Cleveland, O.
FRENCH, SAMUEL H. & CO., 4th &
 Callowhill, Phila., Pa. (See adv. index, end of book)

Graves, N. Z. & Co. (Ltd.), 3d c Arch, Phila., Pa.
 Grippin Mfg. Co., Newark, N. Y.

Grogan, H. F. & Co., 2113 E Sergeant, Phila., Pa.

Howell, Chas. H. & Co., 212 Race, Phila., Pa.
 Indianapolis Paint & Color Co., 244 Mass, Indianapolis, Ind.

Kroeger Bros., 880 McKim, Baltimore, Md.
 McCloskey, L. J. & Co., 30th & Locust, Phila., Pa.

McLennan Paint Co. (Ltd.), 175-195 Rang, Buffalo, N. Y.

Marietta Paint & Color Co., Marietta, O.
 Masury, John W. & Son, 50 Jay, Brooklyn, N. Y.

Mephram, G. S. & Co., E St. Louis, Ill.
 Molier & Schumann Co., Marcy & Flushing av, Brooklyn, N. Y.

Nice, Eugene E. ("Nice"), 272 S 2d, Phila., Pa.

Phoenix Paint & Varnish Co., 124 Market, Phila., Pa.

Pomeroy & Fischer, 28 Frankfort, N. Y.
 Ruth, B. F. & Co., Reading, Pa.

Sherwin-Williams Co., 104 Canal, Cleveland, O.
 Shoemaker, R. & Co., 4th & Race, Phila., Pa.

SMITH, EDW. & CO., 45 B'way, New
 York. (See adv. index, end of book)

Smith Paint & Varnish Co. (Paste & Liquid), 329 Chestnut, Milwaukee, Wis.

St. Louis Surfer Co., 102 Commercial, St. Louis, Mo.

Stoekel, R. E. (Importer), 2449 3d av, New York

Suldam, M. B. Co., 61st & Butler, Pittsburg, Pa.

THOMSON WOOD FINISHING CO., 115
 N 4th, Phila., Pa. (See adv. index, end of book)

Ullman & Philpott Mfg. Co., 95 Merwin, Cleveland, O.

United States Paint Co., Williamsport, Pa.
 Wadsworth-Howland Co., Indiana av & 13th, Chicago, Ill.

Wadsworth, Howland & Co., 84 Wash'n, Boston, Mass.

Waterproof Paint Co., Watertown, Mass.
 Waterfall, Wm. & Co., 200 N 4th, Phila., Pa.

Woodhouse, Sam'l F. (Liquid & Paste), Unity & Franklin, Phila., Pa.

Wood Finishes

(See Finishes, Hard Oil.)

Wood Floor-Interlocking

(See Wood Block Flooring.)

*Wood Floors (Mosaic)

(See also Wood Carpets; also Floors, Parquet)

WOOD-MOSAIC FLOORING & LUMBER CO., Main Office and Factory, Rochester, N. Y. See adv. index & branch offices, end of book

THE INTERIOR HARDWOOD CO MANUFACTURERS INDIANAPOLIS, IND.

(See adv. index, end of book)

Wood (Lignumvitae)

Boston & Lockport Block Co., 160 Commercial, Boston, Mass.

McMILLAN'S, W. H. SONS (Rough,
 Turned & Sawed), 153 South, New York. (See adv. index, end of book)

Wood Modelers (Architectural)

(See Carvers, Wood, Classic; also Modelers & Sculptors, Arch'l.)

Wood Novelties (Turned, Etc.)

(See also Woodenware & Novelties.)

American Enamel Co., Providence, R. I.
American Wood Working Co., 108 Fulton, New York
Berst Mfg. Co., Saginaw, Mich.
Birkett Bros., Petosky, Mich.
Cheboygan Wood Turning Co. (C. M. Robinson, Prop.) (Floats, Turned Boxes, Spindles, etc.), Cheboygan, Mich.
Estes, E. B. & Sons, 74 Warren, N. Y.
Excelsior Wood Turning Co. (Ltd.) (Floats, Turned Boxes, Spindles, etc.), Cheboygan, Mich.
Hawes, Jas. H. Mfg. Co. (Rolling Pins, Potato Mashers, Slaw Cutters, Towel Racks, etc.), Towanda, Pa.
Hellenberg & Son (Ten Pins, Mauls & Mallets, Indian Clubs, Dumb Bells, Exercising Horizontal Bars & Trapeze Bars, etc.), Coldwater, Mich.
Horn, Geo. W. & Son, Weld, Me.
Ludington Novelty Co., Ludington, Mich.
Markham Mfg. Co., Plymouth, Mich.
Martin, L., North Richmond, N. H.
Michigan Toy & Novelty Co. (Rosettes, Spindles, Drop Carvings, etc.), Holland, Mich.
Mossman, Jerome, Fitchburg, Mass.
Niagara Art Turning Works (Rollers), Buffalo, N. Y.

NOVELTY TURNING CO. (& Enamels,
Potato Mashers, Rolling Pins, Chopping Bowls, Toys, Furniture, Druggists' Boxes, etc.), Norway, Me. (See adv. index, end of book)

OSBORN MFG. CO. (Rice Plant), New Durham, N. H.

Peters', Jno. M Sons (Handles, Towel Racks, Rings, Curtain Fixtures, etc.), Bleeker, N. Y.

Phillips, A. J. Co. (Door Holders, Towel Rack, Mops, Stable Scrapers, etc.), Fenton, Mich.
Peirce, W. E. & Co., Milford, N. H.

Piqua Handle & Mfg. Co., Piqua, O.
Richard & Bechtold (Kitchen, Dairy, Bakery & Confectioners' Utensils), Bellaire, Mich.

Sandusky Tool Co. (Croquet Balls, Indian & Base Ball Clubs, Small Handles, Mauls, Potato Mashers, Mallets, Bung Starters, Chalk Line Reels, etc.), Sandusky, O.

Shepherd, E. H. & L. D., Madrid, Me.

Sommer's, Jno. Son (Fancets, Mallets, Rolling Pins Reels, Mashers, Air Vents, etc.), Newark, N. J.

Standard Novelty Works, Texarkana, Ark.

Stowell, N. S. Co. (Spools, Tool & Small Handles, Boxes, etc.), Dixfield, Me.

Utility Mfg. Co., Muskegon, Mich.

Walters, Geo. Co., Dixfield, Me.

Wausau Novelty Co., Wausau, Wis.

Western Box Co. (Druggists' Boxes, Lock Corner Boxes, etc.), 42 River, Chicago, Ill.

Weston Paper & Mfg. Co. (Wood Pie Plates & Dishes), Dayton, O.

Williams & Marvin Mfg. Co. (Caster Wheels, Closet Pulls, Small Knobs, Pin Bushings & Variety Turnings), Deep River, Conn.

Wooden Novelty Co., Coshocton, O.

Woodstock Hardwood & Spool Mfg. Co. (Heavy Hardwood for Shipbuilding & Locomotive Building, Textile Mills, etc.), Charleston, S. C.

Wood Preservatives

(See also Creosoting Works)

Barrett Mfg. Co. (Creosote), Land Title bldg, Berlin Mills Co., Portland, Me. Phila., Pa.

CABOT, SAMUEL (Conservo), 141 Milk, Boston, Mass., & 28 Dearborn av, Chicago. (See adv. index & branch offices, end of book)

Carbolinum Wood Preserving Co. ("Avenarius"), Milwaukee, Wis.

Cromwell-Walker Co., Kearny, Arlington, N. J.
Dielectric Mfg. Co. ("Phenoleum"), 138 Liberty, New York

ELECTRIC FIRE PROOFING CO., New York. (See adv. index, end of book)

Eppinger & Russell Co., 68 Broad, N. Y.

GROSCHÉ, BRUNO & CO., 30 Old Slip, New York. (See adv. below)

S. P. F.

Carbolinum Wood Preserver

PREVENTS rot and decay of woodwork above or below the ground or water.

WATERPROOFS damp brick and stone walls.

KILLS fungi, mildew and vegetable growth in basements, stables, breweries, paper mills, etc.

HAS A 35 YEARS RECORD.

Ask for 32 page illustrated pamphlet.

Bruno Grosche & Co.
28 Old Slip, New York, N. Y.

Georgia Pine Turpentine Co. of N. Y., 158 Perry, New York

Indianapolis Chemical Co., 1442 Madison av, Indianapolis, Ind.

International Creosoting & Construction Co., Galveston, Tex.

Menzel, Wm. & Son (Ligni Savor), 68 Broad, New York

Milwaukee Wood Preserving Co., 806 3d, Milwaukee, Wis.

Norfolk Creosoting Co., Norfolk, Va.

Protectus Co., North American bldg, Philadelphia, Pa.

Sprittine Chemical Co., Wilmington, N. C.

Taylor, J. W. (Ferroline), Summerville, S. C.

U. S. Wood Preserving Co., 29 B'way, New York

Works, Perth Amboy, N. J.

Wood Stains

Acme White Lead & Color Works, Detroit, Mich.

Allentown Mfg. Co., Allentown, Pa.

Ashley, T. C. & Co., 54 High, Boston, Mass.

Barrett-Lindeman Co., 1402 Frankford av, Philadelphia, Pa.

BERRY BROS. (Limited), Main Office & Factory, Detroit, Mich. (See adv. index & branch offices, end of book)

Billings-Chapin Co., 37 Case av, Cleveland, O.

Billings, King & Co., 438 Pearl, N. Y., & 153 Congress, Boston, Mass.

Bowers, U. R. & Sons ("Afro-Lac"), Los Angeles, Cal.

Bridgeport Wood Finishing Co. (Oil, Water & Penetrating), New Milford, Conn.

CABOT, SAMUEL, 141 Milk, Boston, Mass., & 28 Dearborn av, Chicago. (See adv. index & branch offices, end of book)

Chicago Varnish Co. (Wood Tints), 35 Dearborn av, Chicago, Ill.

Chicago Wood Finishing Co., 259 Elston av, Chicago, Ill.

Connors, Wm. Paint Mfg. Co., Troy, N. Y.

Devoe, F. W. & C. T. Reynolds Co., Fulton & William, N. Y.

Dexter Bros. Co., 103 Broad, Boston, Mass.

Eagle Paint & Varnish Co., Allegheny, Pa.

Felton, Sibley & Co., 136 N 4th, Phila., Pa.

Forest City Paint & Varnish Co., Hamilton & Kirtland, Cleveland, O.

FRENCH, SAMUEL H. & CO., 4th & Callowhill, Philadelphia, Pa. (See adv. index, end of book)

GROSCHÉ, BRUNO & CO., 30 Old Slip, New York. (See adv. above)

Harrison Bros. & Co. (Inc.), 35th & Gray's Ferry rd, Phila., Pa.

King Paint Mfg. Co., 27 Dunham pl, Brooklyn, N. Y.

Lucas, John & Co., 322 Race, Phila., Pa.

McLennan Paint Co. (Ltd.), 175-195 Rano, Buffalo, N. Y.

McQuade, John & Co., 416 Marcy av., Brooklyn, N. Y.

Marietta Paint & Color Co., Marietta, O.

Masury, John W. & Son, Brooklyn, N. Y.

Nice, Eugene S. ("Nice"), 270 S 2d, Phila., Pa.

Piqua Paint & Putty Co., Piqua, O.

Pratt & Lambert (Inc.), 100 William, N. Y.

Sherwin-Williams Co., 104 Canal, Cleveland, O.

STANDARD VARNISH WORKS, 29 B'way, New York. (See adv. index & branch offices, end of book)

Stoeckel, R. E. (Importer), 2449 3d av, New York

Wadsworth-Howland Co. (Incorporated), Indiana av & 13th, Chicago, Ill.

Wadsworth, Howland & Co., 84 Wash'n, Boston, Mass.

Wilhelm, A. Co., Reading, Pa.

Woolsey, C. A. Paint & Color Co., Merseles & Colden, Jersey City, N. J.

Wood Turned Goods, Etc.

(See Wood Novelties, Turned, Etc.)

Wood Turned House Trimmings

(See Columns, Porch, Wholesale Mfrs.; also Corner, Base & Head Block Mfrs.; also Grille, Fret & Lattice Work; also Mouldings, Various Kinds; also Ornaments, Wood; also Stair Builders' Supplies; also Wood Turning, Architectural)

Wood Turning (Architectural)

Angne, G. & Co., 573 Reading rd, Cincinnati, O.

American Wood Working Co., 108 Fulton, New York

Baltimore Pattern & Model Works (Circus Wagon, Show Fronts, Animals, Birds, Images, etc.), 218 N Holliday, Baltimore, Md.

Batavia & New York Woodworking Co., 102 W 81st, New York

Blair, H. Crawford, 103 Eddy, Providence, R. I.

Boydton & Co., 421 W 15th, Chicago, Ill.

Buffalo Grille Co., 270 Court, Buffalo, N. Y.

Brussel, Richard, 492 E 139th, New York

Central Wood Turning Co., 336 N E 5th, Minneapolis, Minn.

Clark, G. A. (House Turnings, etc.), Sidney, N. Y.

Dickey, Adam & Co., 41 Bristol, Boston

Ehnborn Wood Turning & Mfg. Co., 19 N Jefferson, Chicago, Ill.

Essex Wood Turning Co. (Spindles of all Varieties), Essex, Conn.

Foster-Munger Co. (for the Trade Only), W 20th & S Sangamon, Chicago, Ill.

Gass, John H. Co., 601 Sackett, Brooklyn, N. Y.

Grand Rapids Carved Moulding Co., Grand Rapids, Mich.

Hillerich, J. F. & Son, 216 1st, Louisville, Ky.

Holm's Pattern & Model Works, 116 1st av, N. Minneapolis, Minn.

Lenzer, Hy. & Son, 620 Main, Cincinnati, O.

Lovejoy, G. W., 1335 Main, Kansas City, Mo.

Mitchell, Robt. Furniture Co., 624 Race, Cincinnati, O.

New York Carved Moulding Co., Rider av & 139th, N. Y.

Niagara Art Turning Wks. (Veranda Work a Specialty), 92 Peach, Buffalo, N. Y.

OSIECKI, THOS., -600 Kent av, Brooklyn, N. Y. (See adv. index, end of book)

Peirce, W. E. & Co., Milford, N. H.

Pinches, Jno. Co., New Britain, Conn.

Root, C. R., 104 Asylum, Hartford, Conn.

Schaefer, Louis, W 21st & Loomis, Chicago, Ill.

Scranthon Wood Working Co., Scranton, Pa.

Slade, F. C. & Son, Watertown rd, Oakville, Conn.

STEARNS, A. T. LUMBER CO., Neponset, Boston, Mass. (See adv. index, end of book)

Upham, Geo. A. (Planing Mill), Waterbury, Conn.

Walter, Rudolph, 4283 Park av, New York

Wood Turning & Enameling

American Enamel Co., Providence, R. I.

Corlier Enameling Co., Ludington, Mich.

Estes, E. B. & Sons, 74 Warren, New York

Hallworth Mfg. Co., Providence, R. I.

Handy Things Co., Ludington, Mich.

NOVELTY TURNING CO., Norway, Me. (See adv. index, end of book)

OSBORN MFG. CO. (Rice Plant), New Durham, N. H. (See adv. index, end of book)

Providence Enamel Co., Providence, R. I.

Schutz Bros., 108 Fulton, New York

When writing to firms listed in this book please mention HENDRICKS' COMMERCIAL REGISTER

Wood Turnings (Automatic)

American Enamel Co. (Artistic & Novelty, Small & Turned Woodwork), Providence, R. I.
 Boynton & Co., 421 W 15th, Chicago, Ill.
 Harris & Cole Bros. (Wholesale Mfrs.), Cedar Falls, Iowa; Metropolis, Ill., & Columbia, Tenn.
 Mahle, C. A. & Son (Ltd.), (Variety), Corry, Pa.
 New York Carved Moulding Co., Rider av & 139th, New York
 Peirce, W. E. & Co., Milford, N. H.
 Rowe, Henry Mfg. Co. (Handles, Draw Pulls, Balls, Spindles, etc.), Newaygo, Mich.
 Stephenson Mfg. Co., South Bend, Ind.
 Thayer, Geo. A., Spruce Corner, Mass.
 Tebbets, E. L. & Co. (Variety Turnings), Locke Mills, Pa.

Wood Turnings (Electrical)

(See Also Woodwork Electrical.)

American Enamel Co. (Also Enameled Turnings), Providence, R. I.
 Ebnborn Wood Turning & Mfg. Co., 19 N Jefferson, Chicago, Ill.
 Harris & Cole Bros. (Wholesale Mfrs.), Cedar Falls, Ia.
 Mahle, C. A. & Son (Agl. Wrench Handles, Brush & Broom Blocks, etc.), Corry, Pa.
 New York Carved Moulding Co., Rider av & 139th, New York
NOVELTY TURNING CO. (Handles, Knobs, Buttons & Cord Adjusters, etc.), Norway, Me. (See adv. index, end of book)
 Ohio Scroll & Lumber Co. (Inc.), Covington, Ky.
OSBORN MFG. CO. (Rice Plant), New Durham, N. H. (See adv. index, end of book)
 Thayer, Geo. A., Spruce Corner, Mass.
 Union Hardware Co. (of All Kinds), Providence, R. I.

Wood Turnings (Rope & Spiral)

(See Mouldings, Various Kinds.)

Wood Wool

Standard Excelsior Wks., Atlanta, Ga.

Woodenware & Novelties, Mfrs.

(See also Wood Novelties, Turned, etc.)

Allen, F. A. (Duck Callers), Monmouth, Ill.
 American Basket & Mfg. Co. (Baskets), Waverly, N. Y.
 Anderson Box & Basket Co. (Boxes & Baskets), Henderson, Ky.
 Averill & Zimmerman (Crates), Sparta, Mich.
 Ballou Basket Works (Baskets, etc.), Belding, Mich.
 Baumelster, F. & Son (Baskets, Berry Boxes & Crates, etc.), Rockwood, Mich.
 Belding Hall Mfg. Co. (Stone Boards, etc.), Belding, Mich.
 Bellaire Woodenware Co., Bellaire, Mich.
 Bliss Mfg. Co. (Woodenware, Mop Sticks, etc.), Bliss, N. Y.
 Booth & Ensign (Baskets), Gasport, N. Y.
 Bousfield & Co. (Woodenware), Bay City, Mich.
 Brammer, H. F. Mfg. Co., Davenport, Ia.
 Bridgeport Woodenware Mfg. Co., Bridgeport, Ala.
 Butler, Otis P. (Toys & Woodenware), West Rindge, N. H.
 Cudworth & Petts, State Line, N. H.
 Cummer Mfg. Co. (Woodenware, etc.), Cadillac, Mich.
 Dundas Woodenware Co., Dundas, Wis.
 Farrar, Chas., Troy, N. H.
 Fuller, L. A., Marlboro Depot, N. H.
 Marsh, Jas., Westport, N. H.
 Martin, L. (Cbair Stock, Pails, etc.), North Richmond, N. H.
 Menesha Woodenware Co., Ladysmith, Wis.
OSBORN MFG. CO. (Rice Plant), New Durham, N. H. (See adv. index, end of book)
 Richmond Cedar Works, Richmond, Va.
 Stokes, W. A. & Co., 30 Warren, N. Y. City.
 Udell Works (House Furnishing & Kitchen Woodenware), Indianapolis, Ind.
 Wellington, E. L., Rindge, N. H.
 Wolf, Peter, Elmira, Wis.

Woodwork (Architectural & Interior)

(See Interior Hardwood Works; also Sashes, Doors & Blinds.)

Woodwork (Electrical)

(See also Wood Turnings, Electrical. Also Mouldings, Electrical, Wood.)

American Enamel Co. (Enameled, Turning, etc.), Providence, R. I.
 American Hardwood Mfg. Co., Grottoes, Va.
 American Veneer Co. (Telephone Boxes & Back Guards), Kenilworth, N. J.
 Household Sewing Machine Co., Providence.
 Huey, M. S. Co., Indianapolis, Ind.
 Noblett, E. J. Co. (Battery & Bell Boxes), Peoria & 121st, Chicago, Ill.
NOVELTY TURNING CO., Norway, Me. (See adv. index, end of book)
 Palen's, H. W. Sons (Fine Cabinet Finishing), Kingston, N. Y.
 Sewing Machine Cabinet Co. (All Kinds on Order), Bridgeport, Conn.
 Thayer & Harmon (Bases, etc.), Ashfield, Mass.
 Thies, Wm. & Son, Huntington, Ind.
 Union Hardware Co., Torrington, Conn.
 Wabash Cabinet Co. (And Special of All Kinds), Wabash, Ind.

Woodwork (Rustic)

(See Rustic Woodwork)

Woodworking Machinery

(See Machinery, Woodworking.)

Wool Wadding

Bacon Bros., Winchester, Mass.
 Evans & Co. ("Hygiene"), Lockport, N. Y.
 Graham, Chas., Chemical Pottery Works 986 Metropolitan av, Brooklyn, N. Y.

Wrappers (Conduit Joint)

Phila. Electrical & Mfg. Co., 2011 Market, Phila., Pa.

Wrenches (Adjustable)

Bemis & Call Hardware & Tool Co. (S. Nut & Pipe), Springfield, Mass.
 Billings & Spencer Co., Hartford, Conn.
 Braunsdorf-Mueller Co., Elizabeth, N. J.
BULLARD AUTOMATIC WRENCH CO. (Inc.) ("Bullard"), Providence, R. I. (See adv. index, end of book)
 Cronk & Carrier Mfg. Co. (Alligator), Elmira, N. Y.
 Greene, Tweed & Co. ("Baxter"), 109 Duane, New York City
 Keystone Mfg. Co. ("Westcott S."), Buffalo, N. Y.
 Long, J. R., Wrench Co., Akron, O.
 Mark Mfg. Co. (Baxter's), Evanston, Ill.
MOSSBERG, FRANK CO. ("Sterling" "Diamond" "Alderman"), Attleboro, Mass. (See adv. index, end of book)
 Offset Handle Wrench Co. ("Ellis"), 125 La Salle, Chicago, Ill.
 Oliver Mfg. Co., 203 S. Desplaines, Chicago, Ill.
 Parr Tool Co., Buffalo, N. Y.
 Star Mfg. Co. (The "Elgin"), Carpentersville, Ill.
 Uwanta Wrench Co. ("Uwanta" Instantaneous), Meadville, Pa.
 Welch, T. F. & Co. (Adjustable Tap), 65 Sudbury, Boston, Mass.
WHITMAN & BARNES MFG. CO., Chicago, Ill., & 111 Chambers, New York. (See adv. index, end of book)
 Zwicker, Fredk. ("The Z"), Indianapolis, Ind.

Wrenches (Adjustable, Pocket)

Billings & Spencer Co., Hartford, Conn.
BULLARD AUTOMATIC WRENCH CO. Inc. ("Bullard"), Providence, R. I. (See adv. index, end of book)
COES WRENCH CO., Worcester, Mass. (See adv. index, end of book)
 Indianapolis Drop Forging Co. (Screw), Indianapolis, Ind.
 Lamson & Sessions Co. ("Canfield," Wrought Bar), Cleveland, O.
 Long, J. R., Wrench Co., Akron, O.
 Uwanta Wrench Co., Meadville, Pa.
 Vandegrift Mfg. Co., Shelbyville, Ind.

Wrenches (Agricultural)

BULLARD AUTOMATIC WRENCH CO. Inc. ("Bullard"), Providence, R. I. (See adv. index, end of book)
COES WRENCH CO., Worcester, Mass. (See adv. index, end of book)
 Indianapolis Drop Forging Co. (Screw), Indianapolis, Ind.
 Lamson & Sessions Co. ("Canfield," Wrought Bar), Cleveland, O.
 Long, J. R., Wrench Co., Akron, O.
 Uwanta Wrench Co., Meadville, Pa.
 Vandegrift Mfg. Co., Shelbyville, Ind.

Wrenches (Alligator)

Acme Hardware Co. ("Victor" Adjustable Drop Forged), Newark, N. J.
 American Co. ("Rockford"), Momenec, Ill.
 Bonney Vise & Tool Works, 3015 Chestnut, Philadelphia, Pa.
 Canton Drop Forge & Mfg. Co., Canton, O.
 Columbia Mfg. Co., Lafayette, Ind.
 Cronk & Carrier Mfg. Co. (Adjustable), Elmira, N. Y.
 Keystone Drop Forge Works ("Keystone," "Crocodile"), Chester, Pa.
 Kraeuter & Co. ("Victor" Adjustable), Newark, N. J.
 La Gripper Wrench Co., Ltd., Battle Creek, Mich.
 Monarch Tool Works ("Monarch" Adjustable), St. Louis, Mo.
 Monarch Wrench Co. ("Monarch" Adjustable), St. Louis, Mo.
 Morris, Herbert ("S." Drop Forged), Betz hldg, Phila., Pa.
ROEBLING'S, JOHN A. SONS CO., of N. Y. ("Drop Forged"), Trenton, N. J., & 117 Liberty, New York. (See adv. index & branch offices, end of book)
 Star Mfg. Co. ("Elgin"), Carpentersville, Ill.
 Washington Tool Co. (Steel), Owatonna, Minn.
 Wells, F. E. & Son Co. (Drop Forged), Greenfield, Mass.
 Whitaker Mfg. Co. (Drop Forged), Chicago, Ill.
WHITMAN & BARNES MFG. CO., Chicago, Ill. (See adv. index & branch offices, end of book)
 Wilcox, D. Mfg. Co., Mechanicsburg, Pa.

Wrenches (Always Ready)*WHITMAN & BARNES MFG. CO.,** Chicago, Ill. (See adv. index & branch offices, end of book)***Wrenches (Automatic)**

BULLARD AUTOMATIC WRENCH Co. Inc. ("Bullard"), Providence, R. I. (See adv. index, end of book)
TRIMONT MFG. CO. ("Trimo"), Amory av, Roxbury, Boston, Mass. (See adv. index, end of book)

Wrenches (Automobile)

Ardmore Mfg. Co. ("Lowndes Duplex"), Ardmore, Pa.
 Baystate Tool Co., Worcester, Mass.
 Billings & Spencer Co. ("B. & S." Drop Forged), Hartford, Conn.
COE'S WRENCH CO. ("Star 91"), Worcester, Mass. (See adv. index, end of book)
 Essex Mfg. & Supply Co., Newark, N. J.
 Handy Tool Co., Bellevue, Ohio.
 Harris, E. T. ("Service," "Alligator"), 531 W. 15th, Chicago, Ill.
 Kimball Co. ("Rapid"), Boston, Mass.
 Long, J. R., Wrench Co., Akron, O.
 Mason Wrench & Tool Co., First Natl. Bank bldg, Chicago, Ill.
 Pederson Mfg. Co., 636 5th av, N. Y. City.
 Quincey-Manchester-Sargent Co. ("Autocle"), Old Colony bldg, Chicago, Ill., & 114 Liberty, New York
 Union Mfg. & Specialty Co. ("Springfield"), Buffalo, N. Y.
 Wakefield, Jno. E., Worcester, Mass.
 Walden Mfg. Co., Worcester, Mass.
 Warren Axle Tool Co. ("American"), Warren, Pa.

Wrenches (Basin)

BERNZ, OTTO ("Bunzell"), S. 13th & S Orange av, Newark, N. J. (See adv. index, end of book)
 Climax Specialty Co., Seneca Falls, N. Y.
 Osborne, C. S. & Co., 96 Mechanic, Newark, N. J.
 Sayre, L. A. & Co., 332 Mulberry, Newark, N. J.
TRIMONT MFG. CO. ("Trimo"), Amory av, Roxbury, Boston, Mass. (See adv. index, end of book)

Wrenches (Bicycle & Pocket)

Andrews, C. E., Forestville, Conn.
 Barnes Tool Co., New Haven, Conn.
 Beckley-Ralston Co., 178 Lake, Chicago, Ill.
 Billings & Spencer Co., Hartford, Conn.
 Bridgeport Gun Implement Co., 219 Elm, Bridgeport, Conn.

BULLARD AUTOMATIC WRENCH CO.,

Inc. ("Bullard"), Providence, R. I. (See adv. index, end of book)
Cronk & Carrier Mfg. Co., Elmira, N. Y.
Crosby Co., Buffalo, N. Y.

Jennings, C. E. Co., 42 Murray, New York
Lamson & Sessions Co. (Case Hardened Steel Screw Wood Handle; also The "Buckeye"), 2188 Scranton Rd., S. W., Cleveland, O.

Mossberg, Frank Co., Attleboro, Mass.
Mossberg Wrench Co., Central Falls, R. I.
Nilson-Walters Wrench Co. ("Nilson"), Casselton, N. Dak.

Peck, Stow & Wilcox Co., Southington, Conn.
Smith, Thomas & Co., Worcester, Mass.
Smith & Egge Mfg. Co., Bridgeport, Conn.

Smith & Hemenway Co., 296 B'way, New York
Star Mfg. Co., Carpentersville, Ill.
Sturges & Burn Mfg. Co., Chicago, Ill.
Tower & Lyon Co., 95 Chambers, New York

Union Mfg. & Specialty Co. ("Union"), Buffalo, N. Y.
Wakefield, Jno. E., Worcester, Mass.

WHITMAN & BARNES MFG. CO.,
Chicago, Ill. (See adv. index & branch offices, end of book)

Williams, J. H. & Co., Brooklyn, N. Y.

Wrenches (Box)

Billings & Spencer Co., Hartford, Conn.
WHITMAN & BARNES MFG. CO.,
Chicago, Ill. (See adv. index & branch offices, end of book)

WILLIAMS, J. H. & SO. (Drop Forged),
150 Hamilton av., Brooklyn, N. Y. (See adv. index, end of book)

Wrenches (Brace Socket)

Braunsdorf-Mueller Co., Ellzabeth, N. J.
Cincinnati Tool Co., Norwood, Cincinnati, O.

Reece, E. T. Co., Greenfield, Mass.
WHITMAN & BARNES MFG. CO.,
Chicago, Ill., & 111 Chambers, New York.

(See adv. index & branch offices, end of book)

***Wrenches (Car Builders')**

AMERICAN BRAKE SHOE & FOUN-
dry Co. ("S," "Tropenas," Cast Steel),
170 B'way, New York. Works & Sales
Office, Chicago Heights, Ill. (See adv. index, & branch offices, end of book)

Wrenches (Carriage)

Goodell Co., Antrim, N. H.
Hurwood Mfg. Co. (Self-Adjusted Nickel Plated), Bridgeport, Conn.

Logan & Strowbridge Iron Co., New Brighton, Pa.

Miller's Falls Co., Miller's Falls, Mass., & 28 Warren, New York

Oliver Mfg. Co., 303 S Desplaines, Chicago, Ill.
Stowell Mfg. & Foundry Co., South Milwaukee, Wls.

Tower & Lyon Co., 95 Chambers, New York
Wells Bros Co., Greenfield, Mass.

Wrenches (Chain)

Bonner, C. E. Mfg. Co. ("Victor" Reversible), Chalsman, Ill.

Brock Wrench Mfg. Co. (Drop Forged), Garwood, N. J.

Hilts Wrench & Mfg. Co. (Adjustable Pipe), Richford, N. Y.

Kroeschell Bros. Co. ("Ideal"), Chicago, Ill.

Robbins, Gamwell & Co., Pittsfield, Mass.

TRIMONT MFG. CO. ("Trimo"),
Armory av., Roxbury, Boston, Mass. (See adv. index, end of book)

WILLIAMS, J. H. & CO. ("Vulcan,"
ton av., Brooklyn, N. Y. (See adv. below)

***Wrenches (Chain Pipe)**

WILLIAMS, J. H. & CO., 150 Hamil-
ton av., Brooklyn, N. Y. (See adv. index, end of book)

***Wrenches (Chuck)**

MORSE TWIST DRILL & MACHINE
Co. (For Chucks), New Bedford, Mass. (See adv. index, end of book)

Wrenches (Combination)

Adjustable Wrench & Specialty Mfg. Co., Harvard, Ill.

Bemis & Call Hardware & Tool Co., Springfield, Mass.

BULLARD AUTOMATIC WRENCH CO.,
Inc. ("Bullard"), Providence, R. I. (See adv. index, end of book)

Cronk & Carrier Mfg. Co., Elmira, N. Y.

Dudly, A. Mfg. Co., Menominee, Mich.

Hawkeye Wrench Co., Marshalltown, Ia.

Stortz, Jno. & Son ("S"), 210 Vine, Phila., Pa.

Tower & Lyon Co., 95 Chambers, New York

Uwanta Wrench Co. ("Uwanta"), Meadville, Vandegrift Mfg. Co., Shelbyville, Mass. Pa.

WHITMAN & BARNES MFG. CO.,
Chicago, Ill. (See adv. index & branch offices, end of book)

Wrenches (Crocodile)

(See Wrenches, Alligator.)

Wrenches (Dog)

Le Count, Wm. G. (Steel), South Norwalk, Conn.

TRIMONT MFG. CO., Roxbury, Bos-
ton, Mass. (See adv. index, end of book)

WHITMAN & BARNES MFG. CO.
("Bull Dog"), Chicago, Ill. (See adv. index & branch offices, end of book)

Wrenches (Drop Forged)

Billings & Spencer Co., Hartford, Conn.

Bonney Vise & Tool Works, 3015 Chestnut, Phila., Pa.

Booth Drop Forge Co., 116 Nassau, New York, N. Y.

Brock Wrench Mfg. Co., Garwood, N. J.

Brown, R. H. & Co., New Haven, Conn.

Canton Drop Forge & Mfg. Co., Canton, O.

Cincinnati Screw & Tap Co., Cincinnati, O.

Eccles, Richard Co., Auburn, N. Y.

Harbison & Modica Mfg. Co., Kansas City, Mo.

Hawkeye Wrench Co., Marshalltown, Ia.

Imperial Mfg. Co. (Hitt's Adjustable Screw & Pipe), Jersey City, N. J.

Indianapolis Drop Forging Co., Indianapolis, Ind.

Keystone Drop Forge Works, Chester, Pa.

Kilborn & Bishop Co. ("Pipe"), New Haven, Conn.

La Gripper Wrench Co. ("La Gripper"), Battle Creek, Mich.

Le Count, W. G., South Norwalk, Conn.

Long, J. R., Wrench Co., Akron, O.

Page-Storms Drop Forge Co., Chicopee Falls, Mass., & Springfield, Mass.

Rhode Island Tool Co., Providence, R. I.

Smith & Hemenway Co., 296 B'way, New York

Solid Steel Tool & Forge Co. ("S. T. S."), Brackenridge, Pa.

Transue & Williams Co., Alliance, O.

TRIMONT MFG. CO. ("Trimo"),
Armory av., Roxbury, Boston, Mass. (See adv. index, end of book)

Vaughan & Bushnell Mfg. Co., Chicago, Ill.

Whitaker Mfg. Co. (Steel), Chicago, Ill.

WHITMAN & BARNES MFG. CO.,
Chicago, Ill. (See adv. index & branch offices, end of book)

WILLIAMS, J. H. & CO., 150 Hamil-
ton av., Brooklyn, N. Y. (See adv. below)

Wrenches (Engineers' & Machinists')

AMERICAN BRAKE SHOE & FOUN-
dry Co. (Engineers' "Tropenas," Cast Steel Single & Double), 170 B'way, New York. Works & Sales Office, Chicago Heights, Ill. (See adv. index & branch offices, end of book)

Billings & Spencer Co. (Drop Forged), Hartford, Conn.

Booth Drop Forge Co., 114 Nassau, New York, N. Y.

Brock Wrench Mfg. Co. (I. X. L. Nut & Engineers), Garwood, N. J., & 38 Cortlandt, New York

Buck, M. M. Mfg. Co., 212 3d, St. Louis, Mo.

Canton Drop Forge & Mfg. Co., Canton, O.

Card, S. W. Mfg. Co., Mansfield, Mass.

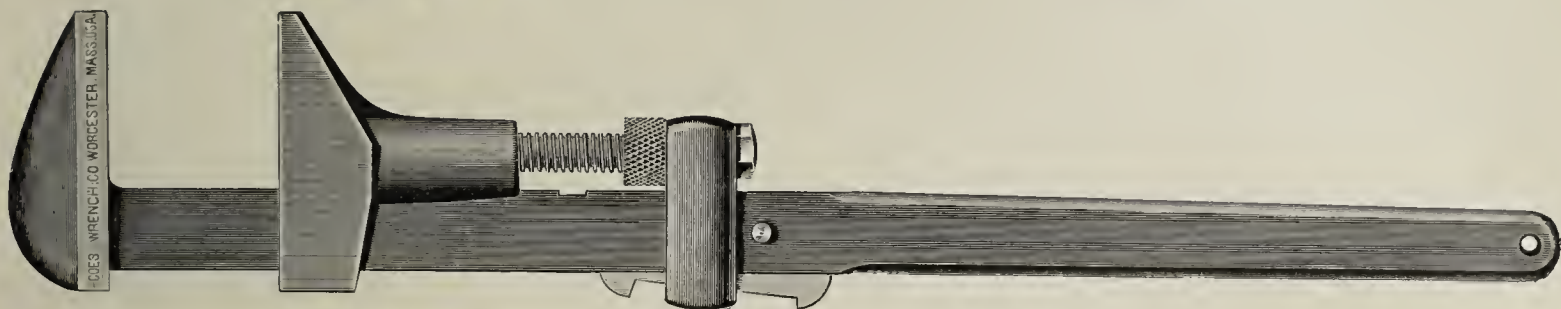
Chester Steel Castings Co., 407 Sansom, Philadelphia, Pa.

COES WRENCH CO., Worcester,
Mass. (See adv. index, end of book)

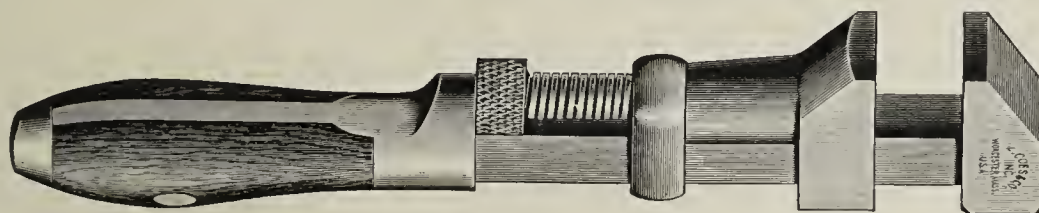
Dayton Malleable Iron Co. (Made of Malleable Iron, for Railroads & Car Shops, Trade Mark D), Dayton, O.



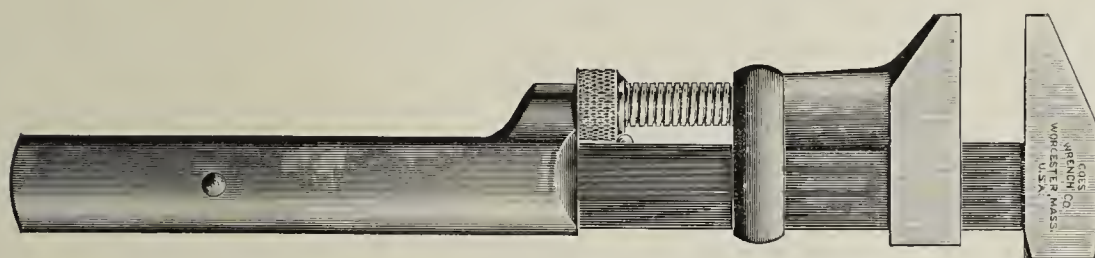
COES WRENCHES.



KEY MODEL, 28, 36 AND 48 INCHES LONG.



KNIFE HANDLE, 6 TO 21 INCHES LONG.



STEEL HANDLE, 4 TO 21 INCHES LONG.

BEST

50 SIZES.



STRONGEST

5 STYLES.

COES WRENCH CO.

Worcester, Mass., U. S. A.

ASK US OR YOUR DEALER.

"TRIMO" PIPE TOOLS

AWARDED GOLD MEDAL, ST. LOUIS, 1904



"TRIMO" PIPE WRENCH.

Known everywhere as the **best pipe wrench made**. Being drop forged from steel, it is strong, durable and always reliable.

Combination 1 and 3 Wheel.

Frame is made of drop forged steel, insuring strength.



PIPE
CUTTER

The *only* cutter that will remove *Burr* from *Pipe* while it is being cut.

This Chain Wrench is designed throughout to give the **greatest strength** for **weight of material** used, thus insuring the safety of the workman. Chain is fastened to **handle** instead of the Jaws, therefore the **drawing stress** is on the **handle** where it should be.



"TRIMO" CHAIN WRENCH

All parts of above tools are interchangeable and guaranteed. Sold by Jobbers everywhere.

CATALOGUE No. 55 MAILED FREE. WRITE FOR IT.

TRIMONT MFG. COMPANY, 55 to 71 Amory Street,
ROXBURY, MASS., U. S. A.

EUROPEAN AGENTS, AMERICAN RADIATOR CO., LONDON.

NOTICE

¶ To all advertisers in this publication desiring to send out circular matter, we will pay 15 CENTS for every envelope having upon same the address of any architect correctly taken from our list of architects and "NOT FOUND" BY THE P. O. DEPARTMENT.

¶ This offer holds good until January 1, 1908, provided however that after July 1, 1907, notice of intention to use such list be given one week in advance, so that additions and changes may be forwarded.

S. E. HENDRICKS CO., 74 LAFAYETTE STREET
NEW YORK

Dudley, A. Mfg. Co. (The Auto), Dayton, O.
 Eccles, Richard Co. (Drop Forged), Auburn,
 Girard Wrench Mfg. Co., Girard, Pa. N. Y.
 Handlan-Buck Mfg. Co. ("Bucks"), 212 N 3d,
 St. Louis, Mo.
 Indianapolis Drop Forging Co., Indianapolis,
 Ind.
 Irving Mfg. & Tool Co. (J. F. McCoy Co.,
 Prop.), 159 Chambers, New York
 Jones & Laughlin Steel Co., Pittsburg, Pa.
 Keystone Drop Forge Works (Drop Forged),
 Chester, Pa.
 Lamson & Sessions Co. ("Canfield" Case Hard-
 ened Screw), 2188 Scranton rd, S. W., Cleve-
 land, O.
 Long, J. R., Wrench Co., Akron, O.
 Nilson-Walters Wrench Co. ("Nilson"), Cassel-
 ton, N. Dak.
 Page-Storms Drop Forge Co. (Set Screws,
 Chuck, Milling Machine), Chicopee Falls,
 Mass., & Springfield, Mass.
 Peck, Stow & Wilcox Co., Southington, Conn.
 Pollock Automatic Wrench Co. ("Pollock" Au-
 tomatic All Steel Case Hardened), Gales-
 burg, Ill.
 Reed Mfg. Co. ("Tiger," Standard), Erie, Pa.
 Rhode Island Tool Co. (Drop Forged Single &
 Double End), Providence, R. I.
 Tower & Lyon Co., 95 Chambers, New York
TRIMONT MFG. CO. ("Trimo"), Am-
ory av, Roxbury, Boston, Mass. (See adv.
index, end of book)
 Tudor Mfg. Co. ("Bay State"), Worcester,
 Mass.
 Uwanta Wrench Co. ("Uwanta"), Meadville,
 Pa.
 Whitaker Mfg. Co. (Drop Forged Steel), Chi-
 cago, Ill.
WHITMAN & BARNES MFG. CO.
 (Screw), Chicago, Ill. (See adv. index &
 branch offices, end of book)
WILLIAMS, J. H. & CO. (Drop
Forged), 150 Hamilton av, Brooklyn, N. Y.
 (See adv. on preceding page)

Wrenches (Fixture)

Applied Device Co. (Falcon), Springfield, Mass.
 Yost Electric Mfg. Co. (Falcon), Toledo, O.

Wrenches (Flange)

Brock Wrench Mfg. Co. (Drop Forged), 18 Dey,
 New York
 Eaton, Cole & Burnham Co. ("Kellam"), 253
 B'way, New York, & Bridgeport, Conn.
 Gombert Mfg. Co. ("Mayer"), Ratche Rever-
 sible), 90 West, New York

Wrenches for Underground Valves

Kennedy Valve Mfg. Co., 57 Beekman, New
 York, & Cossackie, N. Y.

Wrenches (Gas Cock)

Eaton, Cole & Burnham Co., Bridgeport, Conn.

*Wrenches (Hammer Handle)

COES WRENCH CO., Worcester,
 Mass. (See adv. index, end of book)

*Wrenches (Key Adjusting)

COES WRENCH CO., Worcester,
 Mass. (See adv. index, end of book)

*Wrenches (Knife Handle)

COES WRENCH CO., Worcester,
 Mass. (See adv. index, end of book)

Wrenches (Lag Screw)

Dicke Tool Co., Downers Grove, Ill.
 Klein, Mathias & Son, 87 W Van Buren, Chi-
 cago, Ill.

Wrenches (Locomotive)

AMERICAN BRAKE SHOE & FOUN-
dry Co., 170 B'way, New York. Works
& Sales Office, Chicago Heights, Ill. (See
adv. index & branch offices, end of book)
 Billings & Spencer Co. (Drop Forged), Hart-
 ford, Conn.
WHITMAN & BARNES MFG. CO.,
 Chicago, Ill. (See adv. index & branch of-
 fices, end of book)

*Wrenches (Metal Handle)

COES WRENCH CO., Worcester,
 Mass. (See adv. index, end of book)

Wrenches (Nut)

AMERICAN BRAKE SHOE & FOUN-
dry Co., 170 B'way, New York. Works &
Sales Office, Chicago Heights, Ill. (See
adv. index & branch offices, end of book)
 Bemis & Call Hardware & Tool Co. ("S," Ad-
 justable, Steel Handle), Springfield, Mass.
 Billings & Spencer Co. (Drop Forged), Hart-
 ford, Conn.

BULLARD AUTOMATIC WRENCH CO.,
 (Inc.) ("Bullard"), Providence, R. I. (See
 adv. index, end of book)

COES WRENCH CO., Worcester,
 Mass. (See adv. index, end of book)

Hawkeye Wrench Co. ("Hawkeye"), Marshall-
 town, Ia.

Hjorth, Wm. & Co. ("Lighting"), Jamestown,
 N. Y.

Keystone Mfg. Co. ("Wescott"), Buffalo,
 N. Y.

Long, J. R., Wrench Co., Akron, O. N. Y.
 Monarch Wrench Co. ("Monarch" Adjust-
 able), St. Louis, Mo.

Oliver Mfg. Co., 203 S Desplaines, Chicago, Ill.
 Oswego Tool Co. (Adjustable), Oswego, N. Y.

Star Mfg. Co. ("Elgin"), Carpentersville, Ill.
TRIMONT MFG. CO. ("Trimo," "Mon-
key"), Amory av, Roxbury, Boston, Mass.
 (See adv. index, end of book)

Tudor Mfg. Co. ("Bay State"), Worcester,
 Mass.

Uwanta Wrench Co. ("Uwanta," Nut or
 Monkey Wrench), Meadville, Pa.

Vandegrift Mfg. Co. ("Vandegrift"), Shelby-
 ville, Ind.

Wakefield, J. E. ("Wakefield"), Worcester,
 Mass.

WELLS BROS. CO. ("Little Giant"
 Bit, Brace & Ratchet), Greenfield, Mass.
 (See adv. index, end of book)

WHITMAN & BARNES MFG. CO.,
 (Check Nut), Chicago, Ill. (See adv. index
 & branch offices, end of book)

Wrenches (Nut, Bit Brace)

Wiley & Russell Mfg. Co. ("Lightning"), Green-
 field, Mass.

WELLS BROS. CO. (also for Ratch-
ets), Greenfield, Mass. (See adv. index, end
of book)

*Wrenches (Oil Well Swivel)

AMERICAN WELL WORKS, Aurora,
 Ill. (See adv. index & branch offices, end of
 book)

DUFF MFG. CO. ("Barrett's"), 405
 Marlon av, Allegheny, Pa. (See adv. index,
 end of book)

Wrenches (Pin)

Billings & Spencer Co. (Drop Forged Steel),
 Hartford, Conn.

Wrenches (Pipe)

Adjustable Wrench & Specialty Mfg. Co., Har-
 vard, Ill.

American Drop Forging & Tool Co. ("Ameri-
 can"), Wayland, N. Y.

AMERICA TAP & DIE CO., Green-
field, Mass. (See adv. index, end of book)

ARMSTRONG MFG. CO. ("Arm-
strong," "Rapid Transit"), Bridgeport,
Conn., & 139 Centre, New York. (See adv.
index, end of book)

Belden Machine Co. ("Hayden," Brass &
 Nickel), New Haven, Conn.

Billings & Spencer Co. (Drop Forged), Hart-
 ford, Conn.

Bonner, C. E. Mfg. Co. ("Victor"), Chrisman,
 Ill.

Bonney Vise & Tool Works ("Always Ready"),
 3015 Chestnut, Phila., Pa.

Brock Wrench Mfg. Co. ("Brock," "Yan-
 kee" & "Standard"), 18 Dev New York

BULLARD AUTOMATIC WRENCH CO.
 (Inc.) ("Bullard"), Providence, R. I. (See
 adv. index, end of book)

Columbia Mfg. Co. ("Headson," also Brass &
 Nickel Plated Pipe), Lafayette, Ind.

Cronk & Carrier Mfg. Co., Elmira, N. Y.

Darling Pump Mfg. Co. (Ltd.), Williamsport,
 Pa.

Dudly, A. Mfg. Co. (Pipe & Nut Combined),
 Menominee, Mich.

Eaton, Cole & Burnham Co., Bridgeport, Conn.
 Edmonds-Metzel Mfg. Co. ("Universal Grip"),
 163 Jefferson, Chicago, Ill.

Ellis-Ford Mfg. Co. (Combination Pipe & Mou-
 key Wrench), 18 Piquette, Detroit, Mich.

Enterprise Windmill Co. (Enterprise), Sand-
 Fayette Mfg. Co., Fayette, O. wich, Ill.

Greene-Tweed & Co. ("Champion"), 109 Duane,
 New York

Hammond Mfg. Co. ("Hammond" Quick Act-
 ing), 28 Atlantic av, Boston, Mass.

Handlan-Buck Mfg. Co. ("Cochran"), 212 N
 3d, St. Louis, Mo.

Hawkeye Wrench Co. ("Hawkeye"), Marshall-
 town, Ia.

Hilts Wrench & Mfg. Co. ("Hilts," "Eclipse"
 & Adjustable Chain), Rlchford, N. Y.

Hjorth, Wm. & Co. ("Empire"), Jamestown,
 N. Y.

Hollands Mfg. Co. ("Eagle"), Erie, Pa.

Illinois Malleable Iron Co., 30 W Monroe, Chi-
 cago, Ill.

Indianapolis Drop Forging Co. ("Tiger"), In-
 dianapolis, Ind.

Irland Pipe Wrench Co., 15 Court sq, ("Irland"
 Automatic), Boston, Mass.

Ithaca Drop Forge Co. (Drop Forged), Ithaca,
 N. Y.

Jarecki Mfg. Co., Erie, Pa., & Pittsburg, Pa.
 Keystone Drop Forge Works (Drop Forged),
 Chester, Pa.

Keystone Mfg. Co. (The "Westcott" Adjust-
 able), 41 Chandler, Buffalo, N. Y.

Kilborn & Bishop Co. (Drop Forged), New
 Haven, Conn.

Kraeuter & Co. ("Victor" Alligator), Newark,
 N. J.

Kroeschell Bros. Co. ("Ideal"), Chicago, Ill.

La Gripper Wrench Co., Ltd. ("La Gripper"),
 Battle Creek, Mich.

Los Angeles Ice Machine Wks. ("Stone" Pipe
 & Automatic Wrench), Los Angeles, Cal.

Monarch Wrench Co. ("Monarch"), St. Louis,
 Mo.

MOSSBERG, FRANK CO. ("Eagle"
 "Eaglet"), Attleboro, Mass. (See adv. in-
 dex, end of book)

National Tool Co. ("McKercher"), Three Rivers,
 Mich.

Nilson-Walters Wrench Co. ("Nilson" Adjust-
 able), Casselton, N. Dak.

OIL WELL SUPPLY CO. ("Frank-
lin"), 215 Water, Pittsburg, Pa. (See adv.
index, end of book)

Oswego Tool Co. ("Giles," "Improved Stillson"
 Drop Forged), Oswego, N. Y.

Page-Storms Drop Forge Co. (Drop Forged),
 Springfield, Mass.

Parmelee Wrench Co. ("Parmelee's" Gridle),
 1058 W Monroe, Chicago, Ill.

Peck, Stow & Wilcox Co. (Wright), Southing-
 ton, Conn.

Pfeifer, Frederick ("Johnston"), 101 Reade,
 New York

Pollock Automatic Wrench Co. ("Pollock,"
 Automatic, All Steel Case Hardened),
 Galesburg, Ill.

Prentiss Vise Co., 44 Barclay, N. Y.

Reading Machine & Tool Co., Reading, Pa.

Ripley Pipe Wrench Co. ("Leader"), Ripley,
 N. Y.

Robins, Gamwell & Co., Pittsfield, Mass.

Roco Wrench Co. ("Roco" Brass), Pawtucket,
 R. I.

Roemer Reversible Lever Tongs Co. (Reversible),
 Canton, O.

Saunders', D. Sons, Yonkers, N. Y.

Schwendner, Max, Reading, Pa.

Sheffy Mfg. Co., 184 La Salle, Chicago, Ill.

Star Mfg. Co. ("Elgin" Pipe Jaw), Carpenters-
 ville, Ill.

Thurston Mfg. Co. ("Thurston," Drop Forged
 Straight Line), Worcester, Mass.

Tower & Lyon Co. ("Involute"), 95 Chambers,
 New York

Transue & Williams Co. (Drop Forged), Alli-
 ance, O.

TRIMONT MFG. CO. ("Trimo"), Am-
ory av, Roxbury, Boston, Mass. (See adv.
index, end of book)

Unlon Tool Co. ("Jackson" Instantaneous), 147
 Milk, Boston, Mass.

U. S. Wrench Co. ("Improved Stillson"), 299
 B'way, New York

Vandegrift Mfg. Co. ("Vandegrift"), Shelby-
 ville, Ia.

Vaughn & Bushnell Mfg. Co. ("V. & B." Drop-
 forged Steel), 875 W Carroll ave, Chicago,
 Ill.

Wakefield, Jno. E. ("Wakefield"), Worcester,
 Mass.

Walworth Mfg. Co. ("Stillson," "Allston's,"
 "Hall"), 132 Federal, Boston, Mass.

Warnock Mfg. Co. ("Warnock" Smooth & Nick-
 el Pipe), Worcester, Mass.

Wells, F. E. & Son Co. ("Wells"), Green-
 field, Mass.

WHITMAN & BARNES MFG. CO.
(Drop Forged, etc.), Chicago, Ill. (See adv. index & branch offices, end of book)
WILCOX MFG. CO. ("The Yankee Jaw"), Aurora, Ill. (See adv. index, end of book)
WILLIAMS, J. H. CO. ("Brock," "Vulcan," "Agrippa," Drop Forged), 150 Hamilton av, Brooklyn, N. Y. (See adv. index, end of book)
Zwicker, Fredk. ("The Z" Instantaneous Adjustable), Indianapolis, Ind.

Wrenches (Pneumatic)

Hoermann, A. E. ("Hoermann" for Pneumatic Drills, etc.), 41 Park Row, New York

Wrenches (Ratchet)

Andreon & Co. ("Andreon-Morse"), St. Louis, Mo.
BULLARD AUTOMATIC WRENCH CO., Inc. ("Bullard"), Providence, R. I. (See adv. index, end of book)
Irving Mfg. Co. & Tool Co. (J. F. McCoy Co., Prop.), 159 Chambers, New York
Kemp, C. M. Mfg. Co., 401 E Oliver, Baltimore, Md.
Keystone Mfg. Co. ("Monarch" Single Acting, & "Keystone" Reversible), Buffalo, N. Y.
Lord, L. L. Co. ("Lord," with Handle), Meadville, Pa.
Lovejoy Tool Works, 90 Ohio, Chicago, Ill.
Lowell Wrench Co., Worcester, Mass.
Railroad Supply Co. Bedford bldg, Chicago, & 118 Liberty, New York
Sudor Mfg. Co. ("Bay State"), Worcester, Mass.
Wells Bros. Co., Greenfield, Mass.

Wrenches ("S")

AMERICAN BRAKE SHOE & FOUNDRY CO., 170 B'way, New York. Works & Sales Office, Chicago Heights, Ill. (See adv. index & branch offices, end of book)
Bemis & Call Hardware & Tool Co. (Adjustable), 983 Main, Springfield, Mass.
Buckeye Mfg. Co., Canton, O.
Billings & Spencer Co. (Drop Forged, Adjustable, Hexagon, etc.), Hartford, Conn.
Canton Drop Forge Co. & Mfg. Co., Canton, O.
Green-Tweed & Co. ("Baxter Adjustable"), 109 Duane, New York
Keystone Mfg. Co. ("Wescott" Adjustable), Buffalo, N. Y.
Oswego Tool Co. (Adjustable Nut & Pipe), Oswego, N. Y.
WHITMAN & BARNES MFG. CO., Chicago, Ill. (See adv. index & branch offices, end of book)

Wrenches (Screw)

Adjustable Wrench & Specialty Mfg. Co., Harvard, Ill.
Atbol Machine Co. (Rapld Transit), Athol, Mass.
Beckley-Ralston Co., 178 Lake, Chicago, Ill.
Bemis & Call Hardware & Tool Co. ("Briggs" & "Merrick" Pattern), Springfield, Mass.
Billings & Spencer Co. (Drop Forged), Hartford, Conn.
COES WRENCH CO. ("Coes"), Worcester, Mass. (See adv. index, end of book)
Collins Co., Collinsville, Conn.
Imperial Mfg. Co. (Hitt's Adjustable Drop Forged), Jersey City, N. J.
Indianapolis Drop Forging Co. (Agricultural), Indianapolis, Ind.
Irving Mfg. & Tool Co. (J. F. McCoy Co., Prop.), 159 Chambers, New York
Keystone Drop Forge Works (Steel Set Screw), Chester, Pa.
Lamson & Sessions Co. ("Lamson"), Cleveland, Ohio
Mason, F. C. & Co. ("Mason"), St. Johns, Mich.
Mossberg, Frank Co. ("Mossberg"), Attleboro, Mass.
Mossberg Wrench Co., Central Falls, R. I.
Page-Storms Drop Forge Co., Chicopee Falls, Mass., & Springfield, Mass.
Peck, Stow & Wilcox Co. ("P. S. & W."), Southington, Conn.
Transue & Williams Co. (Drop Forged), Alliance, O.
Uwanta Wrench Co. ("Uwanta"), Meadville, Pa.
Vandegrift Mfg. Co. ("Vandegrift"), Shelbyville, Ind.
Whitaker Mfg. Co. (Agl. & Macbinists, etc.), Chicago, Ill.
WHITMAN & BARNES MFG. CO., Chicago, Ill. (See adv. index & branch offices, end of book)

Wrenches (Socket)

Harris, Samuel & Co., 23 S Clinton, Chicago, Ill.
Indianapolis Drop Forging Co., Indianapolis, Ind.
Keystone Mfg. Co. ("Keystone" With Reversible Ratchet), Buffalo, N. Y.
WORCESTER PRESSED STEEL CO., Worcester, Mass. (See adv. index, end of book)
Williams, J. H. & Co., Brooklyn, N. Y.
Winters Bros. Co., Wrentham, Mass.

Wrenches (Spanner)

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)
Billings & Spencer Co. (Drop Forged), Hartford, Conn.
Billings & Spencer Co. (Drop Forged Adjustable), Hartford, Conn.
Booth Drop Forge Co. (Drop Forged), 114 Nassau, N. Y.
Brock Wrench Mfg. Co. ("Brock's" Drop Forged), Garwood, N. J., & 38 Cortlandt, New York
Granger's Drop Forge Works, 25 S. Canal, Chicago, Ill.
Keystone Drop Forge Works (Drop Forged), Chester, Pa.
LUNKENHEIMER CO. (Adjustable), General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)
Morris, Herbert, Betz bldg, Phila., Pa.
Page-Storms Drop Forge Co., Chicopee Falls, Mass., & Springfield, Mass.
Rhode Island Tool Co. (Drop Forged), Providence, R. I.
WHITMAN & BARNES MFG. CO., Chicago, Ill. (See adv. index & branch offices, end of book)
WILLIAMS, J. H. & CO. (Drop Forged), 150 Hamilton av, Brooklyn, N. Y. (See adv. index, end of book)

*Wrenches (Special Narrow Jaw)

TRIMONT MFG. CO. ("Trimont"), Amory av, Roxbury, Boston, Mass. (See adv. index, end of book)

Wrenches (Splicing)

Dicke Tool Co., Downers Grove, Ill.
Klein, Mathias & Son, 87 W Van Buren, Chicago, Ill.

Wrenches (Sprocket)

Ayes & Co. ("Champion" Hub), 57 Ellen, Chicago, Ill.

Wrenches (Staybolt)

Thompson, C. A. ("Acme" Flexible), 516 N 3d, St. Louis, Mo.

*Wrenches (Steel)

COES WRENCH CO., Worcester, Mass. (See adv. index, end of book)

Wrenches ("T")

Nordyke & Marmon Co., Indianapolis, Ind.
Reece, E. F. Co., Greenfield, Mass.

Wrenches (Tap & Reamer)

AMERICAN TAP & DIE CO. ("Am. T. & D. Co."), Greenfield, Mass. (See adv. index, end of book)
ARMSTRONG MFG. CO., Bridgeport, Conn., & 139 Centre, N. Y. (See adv. index, end of book)
BAY STATE TAP & DIE CO., Mansfield, Mass. (See adv. index, end of book)
Besly, Chas. H. Co. (Besly Tap), 15 S. Clinton, Chicago, Ill.
Billings & Spencer Co., Hartford, Conn.
Braunsdorf-Mueller Co. (Tap), Elizabeth, N. J.
Brubaker, W. L. & Bros. (Adjustable), Millerburg, Pa.
Butterfield & Co., Derby Line, Vt.
Card, S. W. Mfg. Co. ("Horsfield"), Mansfield, Mass.
Carpenter, J. M. Tap & Die Co. ("Nichols"), Pawtucket, R. I.

Hart Mfg. Co. ("Duplex" Adjustable Tap), Cleveland, O.
Holroyd & Co. ("Holroyd" Adjustable Tap), Waterford, N. Y.
Keystone Mfg. Co. ("Keystone" or Ratchet Stud Driver, Buffalo, N. Y.
Massachusetts Tool Co., Greenfield, Mass.
MORSE TWIST DRILL & MACHINE Co. (For Adjustable Reamers & Taps), New Bedford, Mass. (See adv. index, end of book)
Pawtucket Mfg. Co., Pawtucket, R. I. book
Polk, A. J. & Son (Adjustable), Millersburg, Pa.
Reece, E. F. Co., Greenfield, Mass.
Sawyer Tool Mfg. Co. (Tap), Fitchburg, Mass.
Standard Tool Co., Central av & R. Ry., Cleveland, O.
Starrett, L. S. Co. (Tap Wrenches), Athol, Mass.
Walworth Mfg. Co., Boston, Mass.
WELLS BROS. CO. ("Little Giant," Adjustable), Greenfield, Mass. (See adv. index, end of book)
Wiley & Russell Mfg. Co. ("Green River," "Lightning," Adjustable), Greenfield, Mass.
Winter Bros. Co., Wrentham, Mass.

Wrenches (Thresher Cylinder)

Excelsior Thresher Tooth Co. ("Excelsior"), Dexter, Iowa
Fosston Mfg. Co. ("Fosston"), 473 N Cleveland, St. Paul, Minn.
Johnson Bros. ("Tiger"), Freeport, Ill.
Parsons Band Cutter & Self Feeder Co. ("Success"), Newton, Ia.
Russell & Co. ("Russell"), Massillon, O.

Wrenches (Tool Post)

Billings & Spencer Co. (Drop Forged), Hartford, Conn.
Booth Drop Forge Co. (Double Head), 114 Nassau, N. Y.
Indianapolis Drop Forging Co., Indianapolis, Ind.
Page-Storms Drop Forge Co., Chicopee Falls, Mass., & Springfield, Mass.
WHITMAN & BARNES MFG. CO. (Drop Forged), Chicago, Ill. (See adv. index & branch offices, end of book)
WILLIAMS, J. H. & CO. (Drop Forged), 150 Hamilton av, Brooklyn, N. Y. (See adv. index, end of book)

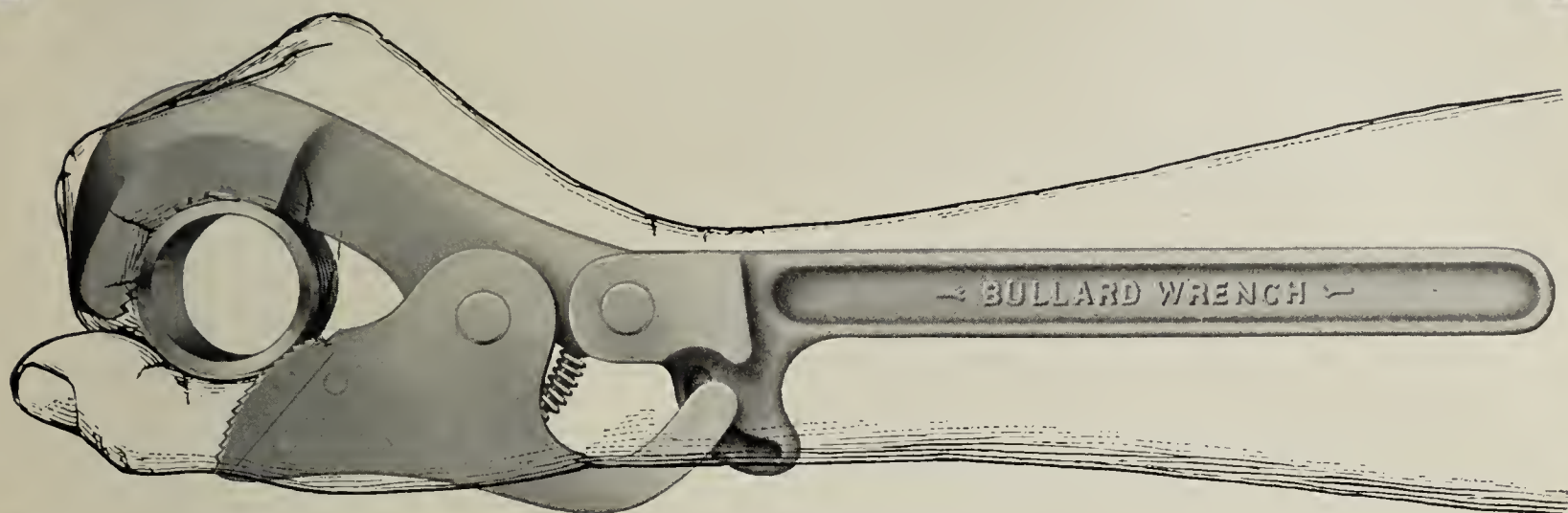
Wrenches (Track)

Abner-Doble Co., 200 Fremont, San Francisco, Cal.
AMERICAN BRAKE SHOE & FOUNDRY CO. (Cast Steel), 170 B'way, New York. Works & Sales Office, Chicago Heights, Ill. (See adv. index & branch offices, end of book)
Atbol Tool Co., ft Chapel, Newark, N. J.
Beall Bros. (Inc.), Single & Double End, Alton, Ill.
Billings & Spencer Co. (Drop Forged), Hartford, Conn.
Booth Drop Forge Co. (Long Handle), 114 Nassau, N. Y.
Chester Steel Castings Co., 407 Sansom, Phila., Pa. & Chester, Pa.
Evansville Tools Works, Evansville, Ind.
Goubert Mfg. Co. ("Meyer's" Reversible Ratchet), 90 West, New York
Harvey, H. H., 608 Atlantic av, Boston, Mass.
Hubbard & Co., Pittsburg, Pa.
Indianapolis Drop Forging Co., Indianapolis, Ind.
Iron City Tool Works (Ltd.), 32d & Smallman, Pittsburg, Pa.
Irving Mfg. & Tool Co. (J. F. McCoy Co., Prop.), 159 Chambers, New York
Kalamazoo Railway Supply Co., Kalamazoo, Mich.
Keystone Drop Forge Works, Chester, Pa.
Klein-Logan Co., S 13th & Breed, Pittsburg, Pa.
Pittsburg Tool & Drop Forge Co. ("Cheswick"), Works, Cheswick, Pa.
Plumb, Fayette R., Frankford, Phila., Pa.
Solid Steel Tool & Forge Co. ("S. T. S."), Brackenridge, Pa.
Union Drop Forge Co., 66 E Ohio, Chicago, Ill.
Vaughan & Bushnell Mfg. Co. ("V. & B." Drop Forge, 875 W Carroll ave., Chicago, Ill.
Verona Tool Works (Straight & T.), Verona, Pa., & Pittsburg, Pa.
Vicksburg Mfg. Co., Vicksburg, Mich.
WILLIAMS, J. H. & CO. (Drop Forged), 150 Hamilton av, Brooklyn, N. Y. (See adv. index, end of book)

Wrenches (Wagon Skein)

Sandage Steel Skein Co., South Bend, Ind.

IT'S ALL IN THE GRIP



— THE — BULLARD AUTOMATIC WRENCH

Operates on a new principle entirely different from that of any other wrench. The jaw take hold without adjustment. There's no monkeying with nuts or screws. It's a one hand wrench, made in five sizes, with capacity from 0 to 3 inches diameter. :: :: ::

SOLD BY ALL LIVE DEALERS

SEND FOR HANDSOME CATALOGUE

MANUFACTURED BY

Bullard Automatic Wrench Co.

INCORPORATED

PROVIDENCE, R. I., U. S. A.



**IF YOU FAIL TO FIND
IN THIS**

**COMMERCIAL
REGISTER.**

**THAT WHICH YOU ARE
LOOKING FOR**

WRITE US—

Enclosing a two cent stamp for reply and we will at once use our best endeavor to supply the information desired, free of charge.

S. E. HENDRICKS CO.,

74 Lafayette Street, [Corner Franklin,] NEW YORK.



Wringers (Clothes)

Acme Washing Machine Co. ("Acme" & "National"), Columbus, O.
 American Wringer Co., 99 Chambers, New York & Woonsocket, R. I.
 Lovell Mfg. Co., Erie, Pa.
 Lovell Mfg. Co. ("Anchor Brand"), Erie, Pa.
 Nineteen Hundred Washer Co., Binghamton, N. Y.
 North Bros. Mfg. Co., Philadelphia, Pa.
 Watkins Laundry Machinery Co., Cincinnati, O.
 Wilson Laundry Machinery Co., Columbia, Pa.

Wringers (Mop)

Acme Washing Machine Co. ("Acme" Combination), Columbus, O.
 Ayes & Co. ("Champion"), 57 Eller, Chicago, Ill.
 Beech Novelty Co. (Beech" Mop Wringer & Pail Combined), Mansfield, O.
 Bennington Mopwringer Co. ("Molly Stark"), Bennington, Vt.
 Dana Mfg. Co. ("Dana"), Cincinnati, O.
 Ellis-Parritt Co. ("Beckwith"), 118 N 4th, Minneapolis, Minn.
 Goddard, C. A. ("Mop Presses"), Akron, O.
 Goddard Mop Press Co., Akron, O.
 Eagle Cooprage Works ("Eagle Wringer & Bucket Combined), Circleville, O.
 Lee Chair Co. ("Reliance"), Onida, N. Y.
 Putnam, T. J. ("Putnam"), Keesville, N. Y.
 Tucker & Dorsey Mfg. Co. ("Mop & Bucket Combined"), State av & Bates, Indianapolis, Ind.

***Wrought Bronze**

HENRY-BONNARD BRONZE CO.
 Sales Office, 5 & 7 E 42d, New York.
 Works, Mt. Vernon, N. Y. (See adv. index, end of book)

Wrought Iron Pipe

(See Pipe & Tube Mills; also Steam Fitters' Supplies, etc.)

X-Ray Apparatus

Aylesworth, J. W., E Orange, N. J.
 Biddle, Jas. G., 1114 Chestnut, Phila., Pa.
 Dodd & Struthers, Des Moines, Ia.
 Edison Lamp Dept., Harrison, N. J.
 Engeln, H. P. & Co., 414 Prospect S. E., Cleveland, Ohio
 Friedlander Co., 23d & B'way, New York
 Green & Bauer, Hartford, Conn.
 Harvard Electric Co., 60 W Van Buren, Chicago, Ill
 Kling Shearer Co., 225 4th av, N. Y. City
 Leeds & Northrup Co., 259 N Broad, Phila., Pa.
 New Era Mfg. Co., Kalamazoo, Mich.

McIntosh Battery & Optical Co., 39 W Randolph, Chicago, Ill.
 Meyrowitz, E. B., 104 E 23d, N. Y. City
QUEEN & CO. (Inc.), n. w. e 8th & Arch, Phila., Pa. (See adv. index, end of book)
 Sweet & Lewis Co., 18 Boylston, Boston, Mass.
 Willoughby & Gibson Co., 40 W 13th, New York

Yacht Sails

(See Sails, Yacht.)

Yard Sticks

Bemis & Call Hardware & Tool Co. (Steel), Springfield, Mass.
 Chapin-Stephens Co. (Also School & Desk Rulers, etc.), Pine Meadow, Conn.
 Stanley Rule & Level Co., New Britain, Conn.
 Westcott-Jewell Co., Seneca Falls, N. Y.

Yarn (Lath)

American Mfg. Co., 63 Wall, New York
CARPENTER, GEO. B. & CO., 202 S Water, Chicago, Ill. (See adv. index, end of book)
 Columbian Rope Co. (Tarred Sisal), Auburn, N. Y.
 New York Cordage Co., 83 Wall, New York
 Overman & Schrader Cordage Co., Cincinnati, O.
 Plymouth Cordage Co., North Plymouth, Mass.

Yarns (Mop)

Argonaut Cotton Mill Co., Covington, Ky.
 Consolidated Cotton Duck Co., Continental Trust bldg, Baltimore, Md.
 Massasoit Mfg. Co., Fall River, Mass.
 Yocona Mills, Water Valley, Miss.

Yarns (Tarred)

Columbian Rope Co. (Sisal), Auburn, N. Y.
 New York Cordage Co., 83 Wall, New York
 Overman & Schrader Cordage Co., Cincinnati, O.
 Waterbury Co., 69 South, New York

***Yellow or Muntz Metal**

HUNGERFORD, U. T. BRASS & COPPER CO. (Plates, Sheets, Nails & Rods), 497 to 503 Pearl, New York

Zinc (Aluminized)

Pa. New Era Mfg. Co., Kalamazoo, Mich.

Zinc Chloride

Cochrane Chemical Co., Boston, Mass.
 Grasselli Chemical Co., Cleveland, O., & 62 Wall, New York
 Penna. Salt Mfg. Co., Phila., Pa.

Zinc Mfrs.

Chanute Zinc Co., Chanute, Kan.
 Edgar Zinc Co., St. Louis, Mo.
 Illinois Zinc Co. (Sheet, etc.), Peru, Ill.
 Matthiessen & Hegeler Zinc Co. (Sheet, etc.), La Salle, Ill.
 New Jersey Zinc Co., 71 B'way, New York
 Sattler Lead & Zinc Co., Bethlehem, Pa.
 Sandoval Zinc Co., Sandoval, Ill.; 122 N Peoria, Chicago, Ill.
 Tennessee Zinc Co., Mercantile Library bldg, Cincinnati, O.

Zinc-Nickelized Sheet

American Nickeloid Mfg. Co., Peru, Ill.

Zinc Shavings

(See Shavings, Zinc.)

Zinc (Sheet)

Illinois Zinc Co., Peru, Ill.
 Lanyon Zinc Co., St. Louis, Mo., & 200 B'way, New York
 Matthiessen & Hegeler Zinc Co., La Salle, Chicago, Ill.

***Zinc Sheets, Rods & Nails**

HUNGERFORD, U. T. BRASS & COPPER CO., 497 Pearl, New York

Zinc Specialties

Bryant Mfg. Co. (of All Kinds), 125 Indiana, Chicago
 Bryant Zinc Co. (of All Kinds), 158 W Van Buren, Chicago, Ill.

Zinc Sulphate

Cantor, Joseph (Imported), 56 Pine, New York
 Grasselli Chemical Co., Cleveland, O., & 62 Wall, New York
 Thomsen Chemical Co., Baltimore, Md.

Zinc (White)

LEAVITT, C. W. & CO., 222 B'way, New York. (See adv. index, end of book)
 Mineral Point Zinc Co., 204 Dearborn, Chicago, Ill., & Works Mineral Point, Wis.
 New Jersey Zinc Co., 71 B'way, New York
 United States Smelting Co., Canon City, Colo.

WE PAY CASH

WE HAVE DEVISED A PLAN TO PAY YOU CASH FOR GIVING CREDIT TO HENDRICKS' COMMERCIAL REGISTER, WHEN ASKING QUOTATIONS FROM FIRMS WHOSE NAMES ARE CLASSIFIED THEREIN.

WE BELIEVE THAT HENDRICKS' COMMERCIAL REGISTER IS USED BY MORE BUYERS FOR PURCHASING PURPOSES THAN ANY OTHER PUBLICATION EVER ISSUED.

BUT OUR PROBLEM IS: HOW CAN WE PROVE IT?

WE HAVE DECIDED TO PAY FOR THE EVIDENCE.

WHEN WRITING A FIRM WHO IS LISTED IN HENDRICKS' COMMERCIAL REGISTER, ATTACH THE RED COUPON TO YOUR LETTER, FILL OUT THE WHITE ONE AND MAIL IT TO US, AND WE WILL REMIT FIVE CENTS IN CASH FOR EACH COUPON SO USED.

WHEN YOU ARE OUT OF COUPONS WE WILL FURNISH MORE.

S. E. HENDRICKS COMPANY,

74 LAFAYETTE STREET, NEW YORK.

ALPHABETICAL LIST OF ADVERTISERS AND ADDRESSES OF THEIR BRANCHES.

| A | | Page |
|--------------------------------------|--|-----------------------|
| ABENDROTH & ROOT MFG. CO. | 75, 427, 648, 822 & 823 Newburgh, N. Y. Branch Offices: 99 John, New York; Monadnock blk, Chicago, Ill., & Diamond Bank bldg, Pittsburg, Pa. | |
| ACME ASPHALT ROOFING MFG. CO. | 65 Mallory av, Jersey City, N. J. | 993 |
| ACME ROAD MACHINERY CO. | Frankfort, N. Y. | 1082 |
| AITON MACHINE CO. | Opposite First Page of Index 126 Liberty, New York; Works: Harrison, N. J. | |
| AJAX IRON & WIRE CO. | 75 York, Brooklyn, N. Y. | 552 |
| AKRON CULTIVATOR CO. | Akron, Ohio. | 48 |
| AKRON ROOFING TILE CO. | Akron, Ohio. | 996 |
| ALBANY, THE. | B'way & 41st, New York, N. Y. | 540 |
| ALLIS CHALMERS CO. | 473, 628, 786 & 917 Executive Offices, 71 Broadway, New York. General Offices, Milwaukee, Wis. Works Offices: Reliance Works, 246 Clinton, Milwaukee, Wis.; Works No. 1, Elston av, Chicago, Ill.; Works No. 2, 12th & Washtenaw av, Chicago, Ill.; West Allis Works, West Allis, Wis.; Scranton Works, Scranton, Pa.; Electrical Works, Cincinnati, O. (Bullock Electrical Mfg. Co.). District Sales Offices: Atlanta, Ga., 4th National Bank bldg; Baltimore, Md., Continental bldg; Boston, Mass., 50 Congress; Buffalo, N. Y., Ellicott Square bldg; Butte, Mont., 51 E B'way; Chicago, Ill., 1st National Bank bldg; Cincinnati, O., 1st National Bank bldg; Cleveland, O., New England bldg; Dallas, Tex., Wilson bldg; Deadwood, S. D.; Denver, Colo., McPhee bldg; Detroit, Mich., Union Trust bldg; El Paso, Tex., Guaranty Trust bldg; Kansas City, Mo., The Dwight bldg; Minneapolis, Minn., Corn Exchange bldg; New York, 71 B'way; New Orleans, 316 Godchanx bldg; Oakland, Cal., room 21, 906 B'way; Omaha, Neb., 537 Range bldg; Philadelphia, Pa., Land Title bldg; Pittsburg, Pa., Frick bldg; St. Louis, Mo., Chemical bldg; Salt Lake City, Utah, Dooly bldg, 117-119 W 2d South; San Francisco, Cal., Atlas bldg, 602 Mission; Seattle, Wash., 316 Occidental av; Scranton, Pa. | |
| ALVEY-FERGUSON CO. | Louisville, Ky.; 15 Park Row, New York; 508 West End Trust bldg, Phila., Pa.; 63 Landers, San Francisco, Cal.; 62 London Wall, London, E. C., London, England, & 20 St. James, Montreal, Canada | 275 |
| AMERICAN ART MARBLE CO. | 609 N American, Phila., Pa. | 750 |
| AMERICAN BAR-LOCK CO. | Home Offices & Works, 26th & Penna. av, Phila., Pa. District representatives in every prominent city in the U. S. | 1175 |
| AMERICAN BELTING CO. | Youngstown, O. Branch Offices: 103 E Market, Pittsburg, Pa., & 161 E Lake, Chicago, Ill. | 59 |
| AMERICAN BRAKE SHOE & FOUNDRY CO. | Mahwah, N. J. Branch Offices: 170 B'way, New York; Chicago Heights, Ill.; Buffalo, N. Y.; Denver, Colo.; Chattanooga, Tenn.; St. Louis, Mo., & Atlanta, Ga. | 205 |
| AMERICAN FILE RENEWING CO. | Providence, R. I. | 433 |
| AMERICAN FIRE APPARATUS CO. | 1 Madison av, New York | 438 |
| AMERICAN GAS FURNACE CO. | 24 John, New York, & Elizabeth, N. J. | 454 |
| AMERICAN-GOETZE GASKET & PACKING CO. | 725 E 141st, New York. | 464 |
| AMERICAN HOIST & DERRICK CO. | Front Adv. Pages St. Paul, Minn. Branch Offices: 60 S Canal, Chicago, Ill.; 39 Cortlandt, New York; Tremont bldg, Boston, Mass.; Hennen bldg, New Orleans. | |
| AMERICAN INJECTOR CO. | Cor. Congress & 7th, Detroit, Mich. | 545 & 594 |
| AMERICAN LUXFER PRISM CO. | Heyworth bldg, cor. Wabash av & Madison, Chicago, Ill. Branch Offices: 160 5th av, New York; 15 Federal, Boston, Mass.; 608 Chestnut, Phila., Pa.; Garfield bldg, Cleveland, O.; Odd Fellows bldg, St. Louis, Mo.; 245 Oak, San Francisco, Cal.; Thoms bldg, Cincinnati, O.; New York Life bldg, Kansas City, Mo.; Gililan blk, St. Paul, Minn.; Railway Exchange bldg, Milwaukee, Wis.; American bldg, Baltimore, Md.; 23d & Blake, Denver, Colo.; New York blk, Seattle, Wash.; Hennen bldg, New Orleans, La., & Pembroke Arcade, Indianapolis, Ind. | 479 & 1174 |
| AMERICAN MASON SAFETY TREAD CO. | 702 Old South bldg, Boston, Mass. Branch Offices: 13-21 Park Row, New York; 1011 Chestnut, Phila., Pa., & 40 Dearborn, Chicago, Ill. | 1062 |
| AMERICAN PROCESS CO. | 62 William, New York | 330 |
| AMERICAN PULLEY CO. | 29th & Bristol, Phila., Pa. Branch Office: 35 Warren, New York. | 912 |
| AMERICAN RADIATOR CO. | General Offices, 282-284-286 Michigan av, Chicago, Ill. Branch Offices: New York, 104-108 W 42d; Boston, 129-131 Federal; Philadelphia, 1342 Arch; Baltimore, 109 E Lombard; Buffalo, Court & Franklin; Pittsburg, 601-3 Hartje bldg; Cincinnati, 213 W 4th; Atlanta, 11 N Forsyth; Detroit, 225 Jefferson; Cleveland, 710 Prospect av; Milwaukee, 126 Sycamore; Indianapolis, 511 Lemcke bldg; St. Louis, Olive & 15th; Minneapolis, 229 5th; Omaha, 413-417 S 10th; Kansas City, 313 E 10th; Denver, 831 15th; San Francisco, Monadnock bldg; Seattle, 1215 & 1216 Alaska bldg; Brantford, Ont., Market st. | 522 |
| AMERICAN ROLLING MILL CO. | Middletown, Ohio. | 574 |
| AMERICAN SHEET & TIN PLATE CO. | Frick bldg, Pittsburg, Pa. Branch Offices: Frank Dickerson, Battery Park bldg, New York; W. H. Eaton, Commercial Nat'l Bank bldg, Chicago, Ill.; W. T. Shannon, Union Trust bldg, Cincinnati, O.; W. J. Wetstein, Security bldg, St. Louis, Mo.; R. R. Hoge, Ainsworth blk, Portland, Ore.; Jas. R. Mills, Jr., Hennen bldg, New Orleans, La.; E. M. Sparhawk, Equitable bldg, Denver, Colo.; Jas. A. Smith, Jr., Penobscot bldg, Detroit, Mich.; I. B. Williams, 16th & Folsom, San Francisco, Cal., & H. M. Davis, Pennsylvania bldg, Phila., Pa. | 560 & 1138 |
| AMERICAN SPIRAL PIPE WORKS. | W 14th & 48th av, Chicago, Ill. Branch Offices: 39 Cortlandt, New York | 445 & 823 |
| AMERICAN STEEL & WIRE CO. | The Rookery, Chicago, Ill. Branch Offices: Battery Park bldg, New York; Worcester, Mass.; Frick bldg, Pittsburg, Pa.; Western Reserve bldg, Cleveland, O.; Chemical bldg, St. Louis, Mo.; Pioneer Press bldg, St. Paul, Minn.; Equitable bldg, Denver, Colo.; San Francisco, Cal.; 9th & Irving, Portland, Ore.; 160 Central av, Los Angeles, Cal.; 71 King William, London, Eng., & New York Life bldg, Montreal, Can. | 246 & 1205 |
| AMERICAN SWISS FILE & TOOL CO. | 24 John, New York | 433 |
| AMERICAN TAP & DIE CO. | Greenfield, Mass. | 1113 |
| AMERICAN 3-WAY PRISM CO. | 134 N 10th, Phila., Pa. Representatives in all large cities | 1175 |
| AMERICAN WELL WORKS. | Anrora, Ill. Branch Offices: 1st Nat'l Bank bldg, Chicago, Ill.; 2 Stone, New York; Joplin, Mo.; Dallas, Tex., & 145 Queen, London, E. C. | 241 |
| AMOS, CHARLES & CO. | Detroit, Mich. | 550 |
| AMSLER ENGINEERING CO. | Diamond Bank bldg, Pittsburg, Pa.; Builders' Exchange, Cincinnati, O., & Fisher bldg, Chicago | 462 |
| ANCHOR POST IRON WORKS. | 41 Park row, New York | 550 |
| ANDERSON FORGE & MACHINE CO. | 271 Gnoin, Detroit, Mich. | 445-1146 |
| ANDERSON, W. H. TOOL & SUPPLY CO. | 14 Macomb, Detroit, Mich. | 1143 |
| ANDREWS, A. H. CO. | 174 Wabash av, Chicago, Ill., & 1170 B'way, New York | 458 |
| ANDREWS & JOHNSON CO. | 256 Washington boul, Chicago, Ill. | 525 |
| ANGELL ELEVATOR LOCK CO. | 370 Atlantic av, Boston, Mass. | 369 |
| ARCHER IRON WORKS CO. | 32 Lasalle, Chicago, Ill. | 48 |
| ARCHITECTURAL DECORATING CO. | 643 S Jefferson, Chicago, Ill. | 307 |
| ARMSTRONG MFG. CO. | Bridgeport, Conn., & 139 Centre, New York | 302, 653, 1080 & 1180 |
| ATLANTIC TERRA COTTA CO. | 1170 B'way, N. Y. Works: Tottenville, S. I., N. Y. | 1117 |
| ATLAS PAINT CO. (Ltd.) | 2638 Liberty av, Pittsburg, Pa. | 814 |
| ATLAS PORTLAND CEMENT CO. | 50 Broad, New York. Branch Offices: Hannibal, Mo.; Copley, Pa., & Northampton, Pa. | 213 |
| AUSTIN, F. C. DRAINAGE EXCAVATOR CO. | Railway Exchange, Chicago, Ill. | 635 |

| | |
|---------------------------------|----------|
| AUSTIN ORGAN CO..... | Page 797 |
| Hartford, Conn. | |
| AUTOMATIC MAIL DELIVERY CO..... | 744 |
| Times bldg, 42d st, New York. | |

B

| | |
|---|------------------|
| BADGER, E. B. & SONS CO..... | 1199 |
| 75 Pitts, Boston, Mass. | |
| BAKER MFG. CO..... | 1176 |
| Allegheny & South av, Allegheny, Pa. | |
| BALANCED CABLE CRANE CO (The)..... | |
| See Opp. Last Page of Index of Contents | |
| 135 William, New York | |
| BANDLER, BERNARD & SON..... | 183 |
| 65 Nassau, New York | |
| BARNEY VENTILATING FAN WORKS..... | 428 |
| A. B. Franklin, Prop.), 24 Binford, Boston, Mass. | |
| BARTLETT, C. O. & SNOW CO..... | 274 |
| Cleveland, Ohio. | |
| BATTERSON & EISELE..... | 751 |
| Edgewater, N. J. Branch Office: Times bldg, 42d st, New York. | |
| BAY STATE TAP & DIE CO..... | 311 & 1112 |
| Mansfield, Mass | |
| BEDFORD QUARRIES CO..... | Front Cover |
| 204 Dearborn, Chicago, Ill. Branch Offices: 1 Madison av, New York, & 818 Euclid av, Cleveland, O. | |
| BERGER MFG. CO..... | 1175 |
| Canton, O. Branch Offices: 40 Dearborn, Chicago, Ill.; 623 N Main, St. Louis, Mo.; 1034 Wash'n av, Phila., Pa.; 112 Bedford, Boston, Mass., & 210 E 23d, New York | |
| BERNZ, OTTO..... | 457 & 1147 |
| S 13th & S Orange av, Newark, N. J. | |
| BERRY BROS. (Ltd)..... | 1040 |
| Detroit, Mich. Branch Offices: 262 Pearl, New York; 26 N 4th, Phila., Pa.; 29 S Hanover, Baltimore, Md.; 520 Atlantic av, Boston, Mass.; 15 Lake, Chicago, Ill.; 420 Main, Cincinnati, O.; 112 S 4th, St. Louis, Mo.; & San Francisco, Cal. Canadian Factory, Walkerville, Ont. | |
| BEST, W. N. AMERICAN CALORIFIC CO..... | 454 & 455 |
| 11 B'way, New York. | |
| BETHLEHEM FOUNDRY & MACHINE CO..... | 556 |
| S Bethlehem, Pa. Branch Office: 149 B'way, N. Y. | |
| BICKELHAUPT, G. SKYLIGHT WORKS..... | 1050 |
| 243 W 47th, New York. | |
| BICKFORD & FRANCIS BELTING CO..... | 60 |
| 37 Pearl, Buffalo, N. Y. | |
| BIGELOW, CHENEY WIRE WORKS..... | 367, 652 & 1047 |
| Springfield, Mass. | |
| BLANCHITE COMPANY (Ltd)..... | 811 |
| 139 Charles, New York. | |
| BLISS, E. W. CO..... | 904 & 905 |
| 19 Adams, Brooklyn, N. Y. | |
| BOCKMANN, A. E..... | 752 |
| 1265-9 B'way, New York | |
| BOLLES, J. E. WIRE & IRON WORKS..... | 551 |
| 4th av & Porter, Detroit, Mich. | |
| BOMMER BROS..... | 529 |
| 255 Classon av, Brooklyn, N. Y. | |
| BONNOT COMPANY..... | Front Adv. Pages |
| Canton, Ohio. | |
| BOOTH BROS. & HURRICANE ISLE GRANITE CO.. | |
| 207 B'way, New York. Branch Offices: New London, Conn., & Rockland, Me. | |
| BOSTON BELTING CO..... | 59, 539 & 802 |
| 260 Devonshire, Boston, Mass. Branch Offices: 100 Reade, New York; 90 Pearl, Buffalo, N. Y. Agencies: The W. Bingham Co., 1433-1455 9th, N W., Cleveland, O.; The Bostwick Braun Co., Toledo, O.; Carey Machinery & Supply Co., 119-121 E Lombard, Baltimore, Md.; Crane & Ordway Co., 5th & Rosabel, St. Paul, Minn.; Denver Rubber Co., cor. 16th & Welton, Denver, Colo.; The English Iron Works Co., 410-412 W 5th, Kansas City, Mo.; A. H. Gardner Co., 380 E Water, Milwaukee, Wis.; Handlan-Buck Mfg. Co., 210-214 N 3d, St. Louis, Mo.; Hazleton Machinery & Supply Co., W Broad, & Vinc, Hazleton, Pa.; Jewell Belting Co., 175-177 Lake, Chicago, Ill.; Keith, Simmons & Co., 316-318 Union, Nashville, Tenn.; Mulconroy Co. (Inc.), 722 Arch, Phila., Pa.; Muzzy-Lyon Co., 56 58 Woodward av, Detroit, Mich.; Pacific Coast Rubber Co., 138-140 1st, San Francisco, Cal.; Pacific Coast Rubber Co., 212-216 Jackson, Seattle, Wash.; Pacific Coast Rubber Co., 1316-1318 A, Tacoma, Wash.; C. T. Patterson Co. (Ltd.), 404-406 Carondelet, New Orleans, La.; J. & H. Phillips, 136-138 6th, Pittsburgh, Pa.; Queen City Supply Co., 201-5 W Pearl, Cincinnati, O.; The Scranton Supply & Machinery Co., 131 Wyoming, Scranton, Pa.; M. Schwartz' Sons, Bangor, Me.; W. & A. C. Sample (Inc.), 311 W Main, Louisville, Ky.; Southern Belting Co., 40-46 S Forsyth, Atlanta, Ga.; Taylor Belting Co., 247 S Meridian, Indianapolis, Ind.; Wm. H. Taylor & Co., 250-256 Hamilton, Allentown, Pa.; Tower & Co. (Inc.), 78 N Main, Memphis, Tenn.; Turner Supply Co., 23-27 S Commerce, Mobile, Ala.; Warren & Bailey Mfg. Co., N Main, Los Angeles, Cal. | |

| | |
|---|---------------------|
| BOSTON OREGON MAST CO..... | Page 308 |
| 116 Condor, E. B., Boston, Mass. | |
| BOSTWICK STEEL LATH CO..... | 576 |
| Niles, O. | |
| BRADLEY & HUBBARD MFG. CO..... | 548 |
| Meriden, Conn. | |
| BRAUN, J. G..... | 548 |
| 322 S Paulina, Chicago, Ill. Branch Office: 537 W 35th, New York. | |
| BRIDGEPORT CHAIN CO..... | 218 & 220 |
| Bridgeport, Conn. | |
| BRISTOL CO..... | 58 & 468 |
| Waterbury, Conn.; 114 Liberty, New York, & 753 Monadnock bldg, Chicago, Ill. | |
| BRIXEY, W. R..... | 1204 |
| 203 B'way, New York. | |
| BRODESSER ELEVATOR MFG. CO..... | 372 |
| Milwaukee, Wis. | |
| BROOKS, T. H. & CO..... | 554 |
| Cleveland, Ohio. | |
| BROWN, A. F. & CO..... | 291, 471, 656 & 780 |
| 25 Dey, New York. Works: Elizabethport, N. J. | |
| BROWN BROS. MFG. CO..... | 549 |
| 22d & Campbell av, Chicago, Ill. | |
| BROWN HOISTING MACHINERY CO..... | 292 & 441 |
| Cleveland, Ohio. Branch Offices: 26 Cortlandt, New York; Frick bldg, Pittsburgh Pa., & 39 Victoria, S. W., London, Eng. | |
| BUCKEYE ENGINE CO..... | 69 & 424 |
| Salem, Ohio. | |
| BUFF & BUFF CO..... | 378 |
| Jamaica Plain Station, Boston, Mass. | |
| BUFFALO CONCRETE MIXER CO..... | 245 |
| 12 Builders' Exchange, Buffalo, N. Y. | |
| BUFFALO REFRIGERATING MACHINE CO. | |
| Opposite First Page of Index. | |
| 126 Liberty, New York. Works: Harrison, N. J. | |
| BUFFALO WIRE WORKS CO..... | 551 |
| 316 Terrace, Buffalo, N. Y. | |
| BULLARD AUTOMATIC WRENCH CO..... | 1214 |
| Providence, R. I. | |
| BURDICK, JOHN R..... | 1045 |
| 77 Dearborn, Chicago, Ill. | |
| BURNS, C. L..... | 810 |
| 156 5th av, New York. | |
| BURROWES, E. T. CO..... | 64 & 1026 |
| 70 Free, Portland, Me. Branch Offices: 277 B'way, New York; 152 Lake, Chicago, Ill.; Real Estate Trust bldg, Phila., Pa.; 53 State, Boston, Mass.; Lincoln Trust bldg, St. Louis, Mo.; Prudential bldg, Atlanta, Ga.; Arrott bldg, Pittsburgh, Pa.; W 7th, Cincinnati, O.; Rose bldg, Cleveland, O.; Whitney bldg, Detroit, Mich.; Colorado bldg, Washington, D. C., & American Bank bldg, Kansas City, Mo. | |
| BURTON, W. J. CO..... | 1199 |
| 164 W Larned, Detroit, Mich. | |
| BYERS, JOHN F. MACHINE CO..... | Front Adv. Pages |
| Ravenna, Ohio. | |

C

| | |
|--|-------------------|
| CABARET, PAUL E. & CO..... | 111 |
| 342 W 14th, New York. | |
| CABOT, SAMUEL..... | 1040 |
| 141 Milk, Boston, Mass. Branch Office: 28 Dearborn av, Chicago, Ill. Sales Agents: West End Lumber Co., San Antonio; Fort Worth Builders' Supply Co., Fort Worth; H. H. Richardson & Co., Jacksonville; S. H. Hanson, Oklahoma City; Builders' Supply Corp., Indianapolis. | |
| CALDWELL, W. E. CO..... | 1109 |
| Louisville, Ky. | |
| CAMERON MACHINE CO..... | 1119 |
| 61 Poplar, Brooklyn, N. Y. | |
| CANTON ART METAL CO..... | 47 & 206 |
| Canton, O. | |
| CANTON CLOTHES DRYER & MFG. CO..... | 232 |
| Canton, O.; 157 W 23d, New York, & 5 Clay, Baltimore, Md. | |
| CANTON FOUNDRY & MACHINE CO..... | 554 |
| Canton, O. | |
| CAREY, GEO. H..... | 935 |
| 1 B'way, New York. | |
| CARPENTER, GEO. B. & CO..... | 999 |
| 202 S Water, Chicago, Ill. | |
| CARTER, BLACK & AYERS..... | 104 |
| 1 Madison av, New York. | |
| CARY MFG. CO..... | 85 |
| 19 Roosevelt, New York. | |
| CASCIO, S..... | 752 |
| 797-803 Lexington, av. Brooklyn, N. Y. | |
| CASE MFG. CO..... | 295 |
| St. Clair & Curtis avs, Columbus, O., & 90 West, New York | |
| CASSIER'S MAGAZINE..... | Front Adv. Pages |
| 3 W 29th, New York | |
| CHAMPION IRON CO..... | 1077 |
| Kenton, Ohio. | |
| CHANDLER CO..... | 790, 1064, & 1065 |
| Springfield, Mass. | |
| CHASE-SHAWMUT CO..... | 460 |
| Newburyport, Mass. | |
| CHESTNUT RIDGE WHITE BRICK CO..... | 104 |
| Kunkletown, Pa., 121 W 42d, New York | |

| | Page |
|--|-------------------------------|
| CHICAGO BUILDERS' SPECIALTIES CO..... | 588 |
| Chamber of Commerce bldg, Chicago, Ill. | |
| CHICAGO CAR HEATING CO..... | 518 |
| Railway Exchange, Chicago, Ill., & 170 B'way, New York | |
| CHICAGO CONCRETE MACHINERY CO..... | 245 |
| 20 Canal, Chicago, Ill. | |
| CHICAGO MILLWORK SUPPLY CO..... | 547 |
| Cor. 22d & Sangamon, Chicago, Ill. | |
| CHICAGO ORNAMENTAL IRON CO..... | 549 |
| 37th & Stewart av, Chicago, Ill. | |
| CHICAGO PNEUMATIC TOOL CO..... | 240, 324, 325, 494, 898 & 899 |
| Flsher bldg, Chicago, Ill. Branch Offices: 95 Liberty, New York; 91 High, Boston, Mass.; Lake & Kirkland, Cleveland, O.; 18th & Law- rence, Denver, Colo.; 2d & Amsterdam, De- troit, Mich.; Chamberlaine bldg, Norfolk, Va.; 810 Arcade bldg, Phila., Pa.; 10-12 Wood, Pitts- burg, Pa.; 516 N 3d, St. Louis, Mo.; 600- 601 Pioneer Press bldg, St. Paul, Minn.; Salt Lake Hardware Co., Salt Lake City, Utah; 526 Mission, San Francisco, Cal.; Hallide Machinery Co., Seattle, Wash.; Western Mining Supply Co., Butte, Mont.; Machinery & Electrical Co., Los Angeles, Cal., & 236 Burnside, Portland, Ore. | |
| CHICAGO SIDEWALK LIGHT CO..... | 549 |
| 101 Washington, Chicago, Ill. | |
| CHISHOLM & MOORE MFG. CO..... | 533 |
| Lake & Kirtland, Cleveland, Ohio. | |
| CINCINNATI MFG. CO..... | 554 |
| 1243 W 6th, Cincinnati, Ohio. | |
| CINCINNATI WALL TIE CO..... | 1183 |
| 206 E 5th, Cincinnati, O. | |
| CITY FORGE & IRON WORKS..... | 554 |
| (Andrew Plocher, Prop.), Dayton, O. | |
| CLARK C. EVERETT CO..... | 254 |
| 100 Washington, Chicago, Ill. | |
| CLASON ARCHITECTURAL METAL WORKS..... | 957 |
| Providence, R. I. | |
| CLEVELAND PNEUMATIC TOOL CO..... | 325, 898 & 899 |
| 6410 Hawthorne av, Cleveland, O.; 120 Liberty, New York; 701 Real Estate Trust bldg, Phila., Pa.; 1224 Bessemer bldg, Pittsburg, Pa.; 704 Fisher bldg, Chicago, Ill.; 608 Burlington bldg, St. Louis, Mo., & 6-8 E 6th, Chattanooga, Tenn. | |
| CLEVELAND PUNCH & SHEAR WORKS CO..... | 924 |
| 1306 E 40th, Cleveland, O. | |
| CLINTON WIRE CLOTH CO..... | 246 & 577 |
| Clinton, Mass. Branch Offices: Sears bldg, Bos- ton, Mass.; 261 B'way, New York, & 32 River, Chicago, Ill. | |
| COATES CLIPPER MFG. CO..... | 1035 |
| Worcester, Mass. | |
| COBURN TROLLEY TRACK MFG. CO..... | 316, 435, 571 & 1153 |
| Holyoke, Mass. | |
| CODD, E. J. CO..... | 767 |
| 700-708 S Caroline, Baltimore, Md. | |
| COES, LORING & CO..... | 570 |
| Worcester, Mass. | |
| COES WRENCH CO..... | 1212 |
| Worcester, Mass. | |
| COHOES IRON FOUNDRY & MACHINE CO.... | 368 & 1130 |
| Cohoes, N. Y. | |
| COLUMBUS WIRE & IRON WORKS CO..... | 553 |
| Columbus, Ohio. | |
| COMMONWEALTH HOTEL..... | 541 |
| Boston, Mass. | |
| CONSOLIDATED SAFETY VALVE CO..Front Colored Page | |
| 85 Liberty, New York. Works: Bridgeport, Conn. Branch Offices: 721 Arch, Phila., Pa.; 22 S Canal, Chicago, Ill.; Park bldg, Pittsburg, Pa.; 128 Oliver, Boston, Mass.; Frisco bldg, St. Louis, Mo.; Williamson bldg, Cleveland, O.; Majestic bldg, Detroit, Mich.; Merrill bldg, Mil- waukee, Wis.; Woodward bldg, Birmingham, Ala.; Kirk bldg, Syracuse N. Y.; Tokio, Japan. | |
| CONTINENTAL CAR & EQUIPMENT CO..... | 186 |
| 17 Battery pl, New York | |
| CONTRACTORS' SUPPLY & EQUIPMENT CO...245 & 1182 | |
| Old Colony bldg, Chicago, Ill. Branch Offices: 170 B'way, New York; Victoria hldg, Pittsburg, Pa.; Wainwright bldg, St. Louis, Mo.; German- American Bank bldg, St. Paul, Minn.; 219 Spear, San Francisco, Cal., & Atlanta, Ga. | |
| COOK, ASA S. CO..... | 675 |
| 80 Huyshope, Hartford, Conn. | |
| CORCORAN, A. J. (Inc)..... | 1109 |
| 11 John, New York. Works: Jersey City, N. J. | |
| COULSON, J. W. & CO..... | 476 |
| 98 N 3d, Columbus, O., & 1123 B'way, New York | |
| CRANE CO..... | |
| 519 S Canal, Chicago, Ill. Branch Offices: Bos- ton, New York, Phila., Pa.; Baltimore, Md.; Cincinnati, O.; St. Paul, Minn.; Minneapolis, Minn.; Duluth, Minn.; St. Louis, Mo.; Kansas City, Mo.; Sioux City, Ia.; Omaha, Neb.; Los Angeles, Cal.; San Francisco, Cal.; Portland, Ore.; Salt Lake City, Utah; Seattle, Wash.; Spokane, Wash.; Birmingham, Ala.; Memphis, Tenn.; Dallas, Tex.; Watertown, S. D.; Fargo, N. D.; Oklahoma City, Okla.; Oakland, Cal.; Tacoma, Wash., & Winnipeg, Manitoba | |

| | Page |
|---|-----------|
| CROOK, W. T..... | 240 |
| 1133 B'way, New York. | |
| CROPPER, R. T..... | 997 |
| 24 S 7th, Phila., Pa. | |
| CROSBY CO..... | 41 & 1064 |
| 171-189 Pratt, Buffalo, N. Y. | |
| CROSBY STEAM GAGE & VALVE CO..468, 469, 543 & 1167 | |
| 95 Oliver, Boston, Mass. Branch Offices: 21 W Lake, Chicago, Ill., & 16 Dey, New York. | |
| CURRIER, CYRUS H. SONS..... | 637 |
| Newark, N. J. | |
| CUTLER-HAMMER MFG. CO..... | 273 |
| Milwaukee, Wis.; 136 Liberty, New York, & Monadnock blk, Chicago, Ill. | |
| CUTLER MFG. CO..... | 12 |
| Rochester, N. Y. | |
| CYPRESS LUMBER CO..... | 1110 |
| 88 Broad, Boston, Mass., & Apalachicola, Fla. | |

D

| | |
|---|---------------------|
| D & W FUSE CO..... | 1204 |
| Providence, R. I. | |
| DAHLSTROM METALLIC DOOR CO..... | 319 |
| Jamestown, N. Y. Branch Offices: 299 B'way, New York, & 683 Atlantic av, Boston, Mass. | |
| DALLET, THOS. H. CO..... | 896 |
| York & Sedgley av, Phila., Pa. | |
| DARBY, EDW. & SONS CO..... | 588 |
| 239 Arch, Phila., Pa. | |
| DART, E. M. MFG. CO..... | 1162 |
| Providence, R. I. | |
| DAVENPORT LOCOMOTIVE WORKS..... | 590 |
| Davenport, Ia., & Park Row bldg, New York | |
| DAVIS, RODNEY..... | 471 |
| 626 Race, Phila., Pa. | |
| DAYTON PNEUMATIC TOOL CO..... | 897 |
| Dayton, O. Branch Offices: 1100-1101 No. 41 Park Row bldg, New York; Manhattan hldg, Chi- cago, Ill.; 717 Park bldg, Pittsburg, Pa.; 2d & Howard, San Francisco, Cal., & 403 Chemical bldg, St. Louis, Mo. | |
| DECORATORS' SUPPLY CO..... | 307 |
| Archer av & Leo, Chicago, Ill. | |
| DECORATIVE ARTS CO..... | 305 |
| 527 5th av, New York | |
| DEFIANCE MACHINE WORKS..... | 676 |
| Defiance, O. | |
| DESSAU'S, S. SONS..... | 183 |
| 180 B'way, New York | |
| DIETZGEN, EUGENE CO..... | 321 |
| 181 Monroe, Chicago, Ill.; 119 W 23d, New York; 14 1st, San Francisco, Cal., & 615 Com- mon, New Orleans, La. | |
| DIXON, JOS. CRUCIBLE CO.....Front Adv. Pages | |
| Jersey City, N. J. Branch Offices: 68 Reade, New York; 1020 Arch, Phila., Pa.; San Fran- cisco, Cal.; Monadnock blk, Chicago, Ill.; Farm- ers' Bank bldg, Pittsburg, Pa.; 101 Tremont, Boston, Mass.; Victoria bldg, St. Louis, Mo., & 26 Victoria, London, S. W., England | |
| DOAK, JAS. G. CO..... | 160 |
| Crozer bldg, Phila., Pa. | |
| DOBBIE FOUNDRY & MACHINE CO....Front Adv. Pages | |
| Niagara Falls, N. Y. Branch Offices: 82 War- ren, New York, & 202 S Water, Chicago, Ill. | |
| DODGE MFG. CO..... | 43, 654, 660 & 1189 |
| Mishawaka, Ind.; Cedar & Washington, New York; 163 S Clinton, Chicago, Ill.; 137 Purchase, Boston, Mass.; 128 W 3d, Cincinnati, O.; 535 Arch, Phila., Pa.; 217-233 37th, Brooklyn, N. Y.; 507 N Main, St. Louis, Mo., & London, England | |
| DONOVAN WIRE & IRON CO..... | 557 & 1077 |
| Toledo, Ohio. | |
| DOYLE & CO..... | 114 |
| 1519-21 Sansom, Phila., Pa. | |
| DROUVE, G. CO.....See Front Adv. Pages | |
| Bridgeport, Conn. | |
| DUFF MFG. CO..... | 562 |
| Allegheny, Pa. | |
| DUPARQUET, HUOT & MONEUSE CO..... | 277 |
| 43 Wooster, New York. Branch Offices: 88 North, Boston, Mass., & 1420 Penna. av, Wash- ington, D. C. | |
| DUPLEX HANGER CO..... | 503 |
| Cleveland, O. | |

E

| | |
|---|------------|
| EDDY, GEO. M. & CO..... | 378 & 1111 |
| 351 Classon av, Brooklyn, N. Y. | |
| ECONOMY FAUCET CO..... | 430 |
| Providence, R. I. | |
| EDWARDS MFG. CO..... | 206 |
| Eggleston av, 4th to 5th, Cincinnati, O. Branch Office: 359 W 26th, New York | |
| EHRET MAGNESIA MFG. CO..... | 36 |
| Land Title bldg, Phila., Pa.; Boston Office, 14 Binford, & New York Office, 73 Malden Lane | |

| | Page |
|--|-------------------------------|
| ELECTRIC CONTROLLER & SUPPLY CO..... | 89, 272, 292 & 745 |
| Cleveland, O. Branch Offices: 515 Frick bldg, Pittsburgh, Pa.; 120 Liberty, New York; R 409 Merchants' Loan & Trust bldg, Chicago, Ill.; 509 Woodward bldg, Birmingham, Ala.; 1621 17th, Denver, Colo., & cor. Howard & Fremont, San Francisco, Cal. | |
| ELECTRIC WELDING MFG. CO..... | 245 |
| 4 Smithfield, Pittsburgh, Pa. | |
| ELECTRIC WHEEL CO..... | 1155 & 1193 |
| Quincy, Ill. | |
| ELECTRO CHEMICAL ENGRAVING CO. (Inc.)..... | 790 |
| 450 19th, Brooklyn, N. Y. | |
| ELEVATOR OPERATING CONTROLLER CO..... | 368 |
| 31-33 B'way, New York | |
| ELEVATOR SUPPLY & REPAIR CO..... | 336, 366, 368, 369, 428 & 767 |
| 76 W Monroe, Chicago, Ill., & 136 Liberty, New York | |
| ELLER MFG. CO..... | 206 |
| Canton, O. | |
| ELLIOTT, B. K. CO..... | 69 |
| 108 6th, Pittsburgh, Pa. | |
| ELLIS, E. B. GRANITE CO..... | 487 |
| Northfield, Vt. | |
| ELMES, CHAS. F. ENG. WORKS..... | 906 |
| Fulton & N Sangamon, Chicago, Ill. | |
| EMMEL, CHAS..... | 306 |
| 383 Albany, Boston, Mass. Sales Agents: Francis J. Meagher, 85 Borden av, Long Island City, N. Y.; Chas. E. Bortea, 803 Hartje bldg, Pittsburgh, Pa.; "Manufacturers' Agency," 804 Mutual Life bldg, Buffalo, N. Y. | |
| ENAMELED STEEL SIGN CO..... | 1045 |
| 12 State, Chicago, Ill. | |
| ENGINEERING-CONTRACTING..... | See Front Adv. Pages |
| 355 Dearborn, Chicago, Ill. | |
| ENGINEERING MAGAZINE..... | See Front Adv. Pages |
| 140 Nassau, New York | |
| ENGINEERING NEWS..... | See Front Adv. Pages |
| 220 B'way, New York. | |
| ENGINEERING RECORD..... | See Adv. Opp. Title Page |
| 114 Liberty, New York. | |
| ESTEY WIRE WORKS CO..... | 552 |
| 59 Fulton, New York. | |
| EUREKA SLATE QUARRIES..... | 996 |
| Fair Haven, Vt. | |

F

| | |
|---|----------------------|
| FAIRBANKS, MORSE & CO..... | 188, 334, 418 & 917 |
| Franklin & Monroe, Chicago, Ill. Branch Offices: 307 Walnut, Cincinnati, O.; 99 Water, Cleveland, O.; 89 Jefferson, Detroit, Mich.; 519 Main, Louisville, Ky.; 140 S Meridian, Indianapolis, Ind.; 8th & Clark av, St. Louis, Mo.; 1217 Union av, Kansas City; 234 E 3d, St. Paul, Minn.; 220 Nicollet av, Minneapolis, Minn.; 1102 Farnam, Omaha, Neb.; 1600 17th, Denver, Colo.; 136 Los Angeles, Los Angeles, Cal.; 310 Market, San Francisco, Cal.; 1st & Stark, Portland, Ore.; 218 S W Temple, Salt Lake City, Utah; 133 Liberty, New York; Spokane, Wash., & 126 Southwark, S. E. London, England. | |
| FAIRFAX U. S. MAIL CHUTE SYSTEM..... | 744 |
| 150 5th av, New York | |
| FARRINGTON, HARVEY..... | 80 |
| 45 B'way, New York. | |
| FAWCUS MACHINE CO..... | 470 |
| 2820 Smallman, Pittsburgh, Pa. | |
| FISKE & CO..... | 104 |
| 161 Devonshire, Boston, Mass. Branch Office: 949 B'way, New York. | |
| FLANAGAN & BIEDENWEG CO..... | 480 |
| 57-63 Illinois, Chicago, Ill. | |
| FLEMING & CO..... | 1063 |
| 123 Liberty, New York. | |
| FLETCHER, H. E. & CO..... | 486 |
| West Chelmsford, Mass. Quarries: Conway, N. H.; Madison, N. H.; W Chelmsford, Mass.; Newport, Vt., & Milford, N. H. | |
| FLORY, S. MFG. CO..... | See Front Adv. Pages |
| Bangor, Pa. Branch Offices: 39 Cortlandt, N. Y. | |
| FOREST CITY STEEL & IRON CO..... | 1076 |
| 110th, nr Detroit av, Cleveland, O. | |
| FORT PITT SPRING & MFG. CO..... | 1059 |
| Farmers' Bank bldg, Pittsburgh, Pa. Works: McKees Rocks, Pa. Selling Agents: Steel & Railway Supply Co., Boston, Mass.; H. A. Clark & Co., New York; Universal Railway Supply Co., Baltimore, Md.; John J. Reilly & Co., Columbus, O.; Railway Specialty & Supply Co., Chicago, Ill.; B. C. Watts & Co., Denver, Colo.; General Railway Materials Co., St. Louis, Mo.; T. F. McCormick, St. Paul, Minn., & Berger-Carter Co., San Francisco, Cal. | |
| FRENCH, SAMUEL H. & CO..... | 784 |
| 4th & Callowhill, Phila., Pa. | |
| FREVERT MACHINERY CO..... | 293 & 679 |
| 18 Dey, New York. | |
| FRIEDLEY-VOSHARDT CO..... | 207 |
| 194 Mather, Chicago, Ill. | |
| FRINK, I. P..... | 939 |
| 551 Pearl, New York. | |

G

| | Page |
|--|----------------------------|
| GARDNER GOVERNOR CO..... | 243 |
| Quincy, Ill. | |
| GAS POWER CO..... | 462 |
| New York | |
| GENERAL COMPRESSED AIR & VACUUM MACHINERY CO..... | 1162 |
| 4469 Olive, St. Louis, Mo. | |
| GENERAL ELECTRIC CO..... | 352, 473, 573, 655 & 1159 |
| Schenectady, N. Y. Branch Offices: 44 Broad, New York; 84 State, Boston, Mass.; Sedgwick, Andrews & Kennedy bldg, Syracuse, N. Y.; Ellicott sq bldg, Buffalo, N. Y.; 218 S 11th, Phila., Pa.; Continental Trust bldg, Baltimore, Md.; Park bldg, Pittsburgh, Pa.; Empire bldg, Atlanta, Ga.; Hennen bldg, New Orleans, La.; Perin bldg, Cincinnati, O.; Citizens bldg, Cleveland, O.; Cole bldg, Nashville, Tenn.; Monadnock bldg, Chicago, Ill.; Majestic bldg, Detroit, Mich.; Wainwright bldg, St. Louis, Mo.; Culbertson bldg, Oklahoma City, Okla.; Scollard bldg, Dallas, Tex.; Power blk, Helena, Mont.; Phoenix bldg, Minneapolis, Minn.; Kittredge bldg, Denver, Colo.; Dooly bldg, Salt Lake City, Utah; Crossley bldg, San Francisco, Cal.; H. W. Hellman bldg, Los Angeles, Cal.; Worcester bldg, Portland, Ore., & Alaska bldg, Seattle, Wash. Foreign Offices. Canadian Office: Canadian General Electric Co. (Ltd.), Toronto, Canada. London Office: 83 Cannon, London, E. C., England. | |
| GENERAL FIREPROOFING CO..... | 575 |
| Youngstown, O., & 156 5th av, New York | |
| GENERAL PNEUMATIC TOOL CO..... | 295, 532 & 1152 |
| Montour Falls, N. Y. Branch Offices: 149 B'way, New York; Stephen Girard bldg, Phila., Pa., & Pittsburgh, Pa. | |
| GIBSON, GEO. H. CO..... | 630 & 646 |
| Tribune bldg, New York | |
| GILMAN SNOW GUARD CO..... | 956 |
| 103 Merimac, Boston, Mass. | |
| GISHOLT MACHINE CO..... | 579 |
| General Offices, Madison, Wis. Works, Madison, Wis., & Warren, Pa. Eastern Office, 114 Liberty, New York | |
| GLAZIER NOZZLE & MFG. CO..... | 793 |
| 501 & 502 Com'l Club bldg, Indianapolis, Ind. | |
| GLOBE VENTILATOR CO..... | 1177 |
| Troy, New York. | |
| GOLDEN-ANDERSON VALVE SPECIALTY CO..... | 1166 |
| Fulton bldg, Pittsburgh, Pa. | |
| GORTON & LIDGERWOOD CO..... | 520 |
| 96 Liberty, New York, & 84 Van Buren, Chicago, Ill. | |
| GOULDS MFG. CO..... | 916 |
| Seneca Falls, N. Y. Branches: 16 Murray, New York; Tremont, bldg, Boston, Mass.; Chemical bldg, St. Louis, Mo.; Bessemer bldg, Pittsburgh, Pa., & Ohio & Franklin, Chicago, Ill. | |
| GRAMMES, L. F. & SONS..... | See Adv. Last Page of Book |
| Allentown, Pa. | |
| GRANT PULLEY & HARDWARE CO..... | 912 |
| 35 Warren, New York. | |
| GRAVER, WM. TANK WORKS..... | 1108 |
| East Chicago, Ind. | |
| GREEN FUEL ECONOMIZER CO..... | 68 & 452 |
| Matteawan, N. Y. Branch Offices: 1218 West Street bldg, New York; 1445 Old Colony bldg, Chicago, Ill.; 141 Milk, Boston, Mass.; Empire bldg, Atlanta, Ga.; 63 1st, San Francisco, Cal.; 418 Coristine bldg, Montreal, Can.; 314 Atlas blk, Salt Lake City, Utah; 321 Trust bldg., Los Angeles, Cal., & 430 Granite bldg, Rochester, N. Y. | |
| GROSCHKE, BRUNO & CO..... | 1210 |
| 28 Old Slip, New York | |
| GUILFORD & WALTERSVILLE GRANITE CO..... | 486 |
| 3 E 64th, Baltimore, Md. | |

H

| | |
|---|-------------|
| HALL'S SAFE CO..... | 46 |
| Spring Grove av, Cincinnati, O. | |
| HALSTED, JOSEPH CO..... | 550 |
| 388 W Randolph, Chicago, Ill. | |
| HANMACHER, SCHLEMMER & CO..... | 1029 & 1144 |
| 4th av & 13th, New York. | |
| HAMPDEN CORUNDUM WHEEL CO..... | 375 |
| Springfield, Mass. | |
| HANCOCK INSPIRATOR CO..... | |
| 85 Liberty, New York. Branch Offices: 721 Arch, Phila., Pa.; 22 S Canal, Chicago, Ill.; Park bldg, Pittsburgh, Pa.; 128 Oliver, Boston, Mass.; Frisco bldg, St. Louis, Mo.; Williamson bldg, Cleveland, O.; Majestic bldg, Detroit, Mich.; Merrill bldg, Milwaukee, Wis.; Woodward bldg, Birmingham, Ala.; Kirk bldg, Syracuse, N. Y.; Tokio, Japan | |
| HARDTMUTH, L. & CO..... | 1148 |
| 34 E 23d, New York | |
| HARDY, WM. A. & SONS CO..... | 831 |
| Fitchburg, Mass. | |

| | Page |
|---|-----------------------------|
| LEAVITT, C. W. & CO..... | 432 |
| 222 B'way, New York | |
| LEHON CO..... | 993 |
| W 43d & Lincoln, Chicago, Ill. | |
| LEOPOLD, J. & CO..... | 488 |
| 18 B'way, New York | |
| LIDGERWOOD MFG. CO..... | See Adv. First Page of Book |
| 96 Liberty, New York; Old Colony bldg, Chicago, Ill.; Boston, Pittsburg, St. Louis, Denver, Philadelphia, Seattle, Atlanta, Cleveland, St. Paul & New Orleans | |
| LITTLE, J. R. METAL WHEEL CO..... | 1194 |
| Quincy, Ill. | |
| LOOMIS-MANNING FILTER CO..... | 435 |
| 828 Land Title bldg, Phila., Pa. Branch Offices: Calvert bldg, Baltimore, Md.; Exchange bldg, Boston, Mass.; Fuller bldg, New York; Ellicott Square bldg, Buffalo, N. Y., & Colorado bldg, Washington, D. C. | |
| LUDOWICI-CELADON CO..... | 997 |
| 515 Cuyahoga bldg, Cleveland, O. Branch Offices: 156 5th av, New York; 509 Chamber of Commerce bldg, Chicago, Ill.; 409 Bessemer bldg, Pittsburg, Pa.; 534 Bryan, East, Savannah, Ga.; 522 Colorado bldg, Denver, Colo.; 322 Hibernia Bank bldg, New Orleans, La.; 819 N American bldg, Phila., Pa. Works: Alfred, N. Y.; New Lexington, O.; Chicago Heights, Ill., & Ludowici, Ga. | |
| LUMEN BEARING CO..... | 54 |
| Buffalo, N. Y. | |
| LUNKENHEIMER CO..... | 1164 |
| Beekman & Waverly, Cincinnati, Ohio. Branch Offices: 66 Fulton, New York, & 35 Great Dover, London, S. E., England. | |
| LYON METALLIC MFG. CO..... | 1072 |
| Aurora, Ill. | |

M

| | |
|---|----------------------|
| McCABE HANGER MFG. CO..... | 316 |
| 425 W 25th, New York. | |
| McCRAE REFRIGERATOR CO..... | 940 & 941 |
| 631 Mill, Kendallville, Ind. Branch Offices: 341 B'way, New York; 55 Wabash av, Chicago, Ill.; 52 Shelby, Detroit, Mich.; 52 Commercial, Boston, Mass.; 206 S 11th, Phila., Pa.; 620 F. N. W., Washington, D. C.; 745 Prospect av, Cleveland, O.; 404 N 3d, St. Louis, Mo.; 431 Polk, San Francisco, Cal., & 422 S 3d, Minneapolis, Minn. | |
| McFARLAND, J. C. & CO..... | 1199 |
| 27th & 5th av, Chicago, Ill. Branch Office: 235 B'way, New York. | |
| McKEOWN, H. J..... | Front Adv. Pages |
| 248 Butler, Cincinnati, O. | |
| McLEAN, JOHN..... | 1045 |
| 162 W 27th New York | |
| McMILLAN'S, W. H. SONS..... | 67 |
| 153 South, New York | |
| MACOMBER & WHYTE ROPE CO..... | 1205 |
| 21 S Canal, Chicago, Ill. Branch Offices: 126 Centre, New York; Times bldg, Pittsburg, Pa., & 815 Colman Dock, Seattle, Wash. | |
| MAINE-McCORMACK CO..... | 271 & 932 |
| 72 Murray, New York | |
| MANNING, MAXWELL & MOORE..... | See Front Adv. Pages |
| 85, 87 & 89 Liberty, New York. Branch Offices: 22, 24 & 26 S Canal, Chicago, Ill.; Park bldg, Pittsburg, Pa.; Williamson bldg, Cleveland, O.; 128 Oliver, Boston, Mass.; 721 Arch, Phila., Pa.; Frisco bldg, St. Louis, Mo.; Birmingham, Ala., & Syracuse, N. Y. | |
| MARINE ENGINE & MACHINE CO..... | 370 |
| 126 Liberty, N. Y. Works: Harrison, N. J. | |
| MAURER, HENRY & SON..... | Front Inside Cover |
| 420 E 23d, New York. Branch Office: Penna. bldg, Phila., Pa. Works: Maurer, N. J. | |
| MEAD, MORRISON MFG. CO..... | See Front Adv. Pages |
| Cambridge (Boston), Mass. Branch Offices: 11 B'way, New York; Maryland Trust bldg, Baltimore, Md.; Penna bldg, Phila., Pa.; 74th & Kimbark av, Chicago, Ill.; Birmingham, Ala.; 200 S Peters, New Orleans, La.; San Francisco, Cal., & 286 St. James, Montreal, Can. | |
| MEADOW BROOK SLATE CO..... | 996 |
| Slatinton, Pa. | |
| MERCHANT & EVANS CO (Inc.)..... | 1139 |
| 517 Arch, Phila. Pa. Branch Offices: 224 Pearl, New York; 14 Michigan, Chicago, Ill.; 584 Flushing av, Brooklyn, N. Y.; K. C. Life bldg, Kansas City, Mo., & 232 St. Paul, Baltimore, Md. | |
| MERRILL BROS..... | 1179 |
| 465 Kent av, Brooklyn, N. Y. | |
| MERRITT CO..... | 588 |
| 1024 Ridge av, Phila., Pa. | |
| MICHIGAN WIRE CLOTH CO..... | 1202 |
| Detroit, Mich. | |
| MILLER, J. B. KEYLESS LOCK CO..... | 587 |
| Kent, O. | |
| MILWAUKEE CORRUGATING CO..... | 998 |
| Milwaukee, Wls. | |

| | Page |
|--|------------------------|
| MINNEAPOLIS STEEL & MACHINERY CO..... | 1077 |
| Minneapolis, Minn.; 313 Exchange bldg, Denver, Colo.; 1302 W 11th, Kansas City, Mo.; 505 Guaranty Trust bldg, El Paso, Tex.; 417 Hennen bldg, New Orleans, La.; 1212 Harney, Omaha, Neb.; 1007 Bessemer bldg, Pittsburg, Pa.; 324 Dooley blk, Salt Lake City, Utah; 653 Monadnock bldg, San Francisco, Cal.; 338 Globe bldg, Seattle, Wash. Agencies: Cavanaugh-Darley Co., 21-23-25 Plymouth st, Chicago, Ill.; Lewis Supply Co., 1300 W 11th, Kansas City, Mo.; Lewis Supply Co., 1212 Harney, Omaha, Neb., & Mr. M. O'R. Jarvis, 313 McIntyre bldg, Winnipeg, Man., Can. | |
| MISSISSIPPI GLASS CO..... | 478 |
| 277 B'way, New York. Branch Offices: Main & Angelica, St. Louis, Mo., & 72 E Madison, Chicago, Ill. | |
| MISSISSIPPI WIRE GLASS CO..... | 474 & 475 |
| 277 B'way, New York. Branch Offices: Main & Angelica, St. Louis, Mo., & 72 E Madison, Chicago, Ill. | |
| MONARCH VALVE & MFG. CO..... | 1167 |
| Warren, Mass. | |
| MONIGHAN'S MACHINE WORKS..... | Front Adv. Pages & 500 |
| 813 Carroll av, Chicago, Ill. | |
| MOORE, FRANKLIN CO..... | 532 |
| Winsted, Conn. | |
| MORGAN ENGINEERING CO..... | 294 & 500 |
| Alliance, O. | |
| MORRILL, CHAS..... | 62, 910 & 1017 |
| 277 B'way, New York | |
| MORRIS MACHINE WORKS..... | 915 |
| Baldwinsville, N. Y. Branch Offices: 39 Cortlandt, New York, & 61 N. Jefferson, Chicago, Ill. | |
| MORSE, FRANK W..... | 2, 321, 443 & 497 |
| 116 Bedford, Boston, Mass. | |
| MORSE, R. F..... | 467 |
| Providence, R. I. | |
| MORSE TWIST DRILL & MACHINE CO..... | 328 |
| New Bedford, Mass. | |
| MORSE, WILLIAMS & CO. (Dept. of Otis Elevator Co.) | 369 |
| 32 S Broad, Phila., Pa. Branch Offices: 108 Liberty, New York; 19 Pearl, Boston, Mass.; 148 W West, Baltimore, Md.; 1016 Penn av, Pittsburg, Pa.; 12 S 10th, Richmond, Va., & 58 S Broad, Atlanta, Ga. | |
| MOSSBERG, FRANK CO..... | 939 |
| Atleboro, Mass. | |
| MULLINS, W. H. CO..... | 1198 |
| Salem, O. | |
| MUNDY, J. S..... | See Front Adv. Pages |
| 22-34 Prospect, Newark, N. J. Branch Offices: 39 Cortlandt, New York; Market & Randolph, Chicago, Ill.; 1744 Market, Phila., Pa.; 325 Water, Pittsburg, Pa.; 324 Water, Norfolk, Va.; 210 Wash'n av, St. Louis, Mo.; 203 W Pearl, Cincinnati, O.; 10 Beale, San Francisco, Cal.; 29 1st, Portland, Ore.; 110 Jackson, Seattle, Wash.; 203 Meeting, Charleston, S. C.; 1420 E Cary, Richmond, Va.; Willow & Wood, Houston, Texas; 140 Pearl, Boston, Mass.; Rockefeller bldg, Cleveland, O.; 28 Light, Baltimore, Md.; 160 N Commerce, Mobile, Ala.; 203 Ger. Amer. Bank bldg, St. Paul, Minn.; 1401 St. Louis av, Kansas City, Mo., & 118 Hollis, Halifax, N. S. | |
| MUNICIPAL ENGINEERING & CONTRACTING CO... | 243 |
| Railway Exchange bldg, Chicago, Ill. Branch Office: 50 West, New York. | |
| MUNN-PRICE CO..... | 994 |
| 413 W B'way, New York | |
| MURALO CO..... | 809 |
| New Brighton, Boro' of Richmond, N. Y. | |
| MURPHY, CHRISTOPHER & CO..... | 303 |
| First National Bank bldg, Chicago, Ill. | |
| MYCENIAN MARBLE CO..... | 748 & 749 |
| 524 W 34th, New York. | |

N

| | |
|--|----------------------|
| NARRAGANSETT MACHINE CO..... | 589 |
| Providence, R. I. | |
| NATIONAL BLOWER WORKS..... | 524 |
| Milwaukee, Wis. | |
| NATIONAL CABLE & MFG. CO..... | 584 |
| Niles, Mich., & 116 Lake, Chicago, Ill. | |
| NATIONAL FIRE PROOFING CO..... | 440 |
| Pittsburg, Pa. Branch Offices: Flat Iron, bldg, New York; 140 Dearborn, Chicago, Ill.; Old South bldg, Boston, Mass.; Colorado bldg, Washington, D. C.; Land Title bldg, Phila., Pa.; Lumber Exchange, Minneapolis, Minn.; 511 Union Trust bldg, Los Angeles, Cal.; St. Louis, Mo.; Cuyahoga bldg, Cleveland, O., & 27 Chancery Lane, London, Eng. | |
| NATIONAL HOISTING ENGINE CO..... | See Front Adv. Pages |
| Harrison, N. J. Selling Agents: Allen & Ross, 305 Penn bldg, Phila., Pa.; A. C. Stansill, 412 Terry bldg, Roanoke, Va.; Contractors' Supply Co., 908 Hartje bldg, Allegheny, Pa.; Geo. B. Carpenter & Co., 202 S Water, Chicago, Ill.; H. J. McCoy, 65 Dey, New York | |
| NATIONAL MFG CO..... | 367 |
| Worcester, Mass. Branch Offices: Equitable bldg, Boston, Mass., & 103 Chambers, New York | |

| | Page |
|--|------------|
| NATIONAL STORE FRONT CO..... | 477 |
| 208 1st av. Pittsburg, Pa. | |
| NATIONAL SUPPLY CO..... | 506 |
| 7 W Lombard, Baltimore, Md. | |
| NATURAL AUTOFORCE VENTILATOR CO..... | 1178 |
| 53 Devonshire, Boston, Mass. | |
| NEW ENGLAND GRANITE WORKS..... | 488 & 489 |
| Westerly, R. I. Branch Offices: Concord, N. H., & 489 5th av. New York. | |
| NEW JERSEY TERRA COTTA CO..... | 1116 |
| 108 Fulton, New York | |
| NEW KENMORE, THE..... | 541 |
| Albany, N. Y. | |
| NEW PRINCESS HOTEL..... | See Page 1 |
| Atlantic City, N. J. | |
| NEW PROCESS TWIST DRILL CO..... | 327 |
| Taunton, Mass. | |
| N. Y. CABLEWAY & ENGINEERING CO..... | 178 |
| 1 Rector, New York | |
| N. Y. CENTRAL IRON WORKS CO..... | 1107 |
| Geneva, N. Y. | |
| NEW YORK CONTINENTAL JEWELL FILTRATION CO..... | 434 |
| 15 Broad, New York. Branch Office: 167 Dear- born, Chicago, Ill. | |
| NEW YORK METAL CEILING CO..... | 207 |
| 537-541 W 24th, New York | |
| NEW YORK PRISM CO..... | 479 |
| 473 W B'way, New York. | |
| NIAGARA HOTEL..... | 540 |
| Buffalo, N. Y. | |
| NIAGARA MACHINE & TOOL WORKS..... | 664 |
| Buffalo, N. Y. | |
| NICHOLLS, WM. S..... | 295 |
| 253 B'way, New York. | |
| NON-STAINING CEMENT CO..... | 212 |
| 156 5th av. New York. | |
| N. E. TERRA COTTA CO..... | 1116 |
| Bradford, Pa. | |
| NORTHERN ENGINEERING WORKS..... | 294 & 532 |
| 9 Chene, Detroit, Mich. | |
| NORTHWESTERN COMPO-BOARD CO..... | 240 |
| Minneapolis, Minn. | |
| NORTHWESTERN TERRA COTTA CO..... | 1116 |
| Main Office & Works, 1000 Clybourn av., & Branch Office, 1415 Railway Exchange, Chicago, Ill. | |
| NORTON CO..... | 494 |
| Main Office: Worcester, Mass., U. S. A.; Ni- agara Falls, N. Y., & Chicago, Ill. For Foreign Offices, see our adv. | |
| NORWALK IRON WORKS CO..... | 241 |
| South Norwalk, Conn. | |
| NOVELTY TURNING CO..... | 501 |
| Norway, Me. | |
| NUTTALL, R. D. CO..... | 470 |
| Fayette & Garrison pl, Pittsburg, Pa. | |

O

| | |
|---|-------------|
| OHIO STRUCTURAL IRON CO..... | 553 |
| Sandusky, O. | |
| OIL CITY BOILER WORKS..... | 74 |
| Oil City, Pa. Branch Office: 39 Cortlandt, New York. | |
| OIL WELL SUPPLY CO..... | 796 |
| 215 Water, Pittsburg, Pa. | |
| OKONITE CO..... | 1204 |
| 253 B'way, New York. | |
| OLDHAM, GEO. & SON..... | 898 |
| Frankford, Phila., Pa. | |
| OLIVER TYPEWRITER CO..... | 1161 |
| 310 B'way, New York | |
| ONEIDA COMMUNITY (Ltd.), Dept. G..... | 218 |
| Oneida, N. Y. Branch Office: Niagara Falls, N. Y. Branch Sales Offices: 395 B'way, New York; 131 Wabash av, Chicago, Ill.; 1104 Floyd av, Richmond, Va.; Century Bank bldg, Atlanta, Ga., & 717 Market, San Francisco, Cal. | |
| ORGAN POWER CO..... | 1163 |
| Hartford, Conn. | |
| OSBORN ENGINEERING CO..... | 411 |
| Osborn bldg, Cleveland, O., & Land Title bldg, Phila., Pa. | |
| OSBORN MFG. CO..... | 451 |
| 5401 Hamilton av, N. E., Cleveland, O., & (Rice Plant), New Durham, N. H. | |
| OSGOOD SCALE CO..... | 1020 & 1021 |
| Binghamton, N. Y. | |
| OTIS ELEVATOR CO..... | 366 |
| 17 Battery pl, New York. Branch Offices: 1228 Race, Phila., Pa.; 159 La Salle, Chicago, Ill.; Cuyahoga bldg, Cleveland, O.; Corcoran bldg, Washington, D. C.; Empire bldg, Atlanta, Ga.; Godchaux bldg, New Orleans, La.; Continental Trust bldg, Baltimore, Md.; Penobscot bldg, De- troit, Mich.; Security bldg, St. Louis, Mo.; 19 Commercial, Rochester, N. Y.; Mercantile Li- brary bldg, Cincinnati, O.; 1016 Penn av, Pitts- burg, Pa.; Yonkers, N. Y., & San Francisco, Cal. | |
| OVICI, S. I. & CO..... | 232 |
| 401 B'way, New York | |
| OWEN MACHINE TOOL CO..... | 618 |
| Springfield, O. | |

P

| | |
|--|-------------------|
| PACIFIC BUILDER & ENGINEER. | Last Page of Book |
| Seattle, Wash. | |
| PARKER, CHAS. CO..... | 1178 & 1179 |
| Meriden, Conn. | |
| PATTISON, W. M. SUPPLY CO..... | 933 |
| 197 St. Clair av, Cleveland, O. | |
| PELHAM OPERATING CO..... | 374 |
| 410 W 26th, New York. | |
| PENBERTHY INJECTOR CO..... | 545 & 796 |
| 346 Holden av, Detroit, Mich. | |
| PERFECT SAFETY WINDOW GUARD..... | 1198 |
| Flat Iron bldg, New York | |
| PERFECT SEWER TRAP MFG. CO..... | 1150 |
| 61 Beckman, New York | |
| PERKINS MACHINE CO..... | 906 & 907 |
| Warren, Mass. | |
| PETROLEUM IRON WORKS CO..... | 1108 |
| Washington, Pa. Branch Offices: Farmers Bank bldg, Pittsburg, Pa., & Houston, Tex. | |
| PHILADELPHIA GEAR WORKS (Inc.)..... | 471 |
| 7th & Cherry, Phila., Pa. | |
| PHOENIX ELECTRIC CO..... | 478 |
| Mansfield, Ohio. | |
| PICROME HIDE CO..... | 471 |
| Syracuse, N. Y. | |
| PICTON ISLAND RED GRANITE CO..... | 485 |
| 320 5th av, New York. Quarries at Picton Island, St. Lawrence River | |
| PIGEON-FRASER HOLLOW SPAR CO..... | 1056 |
| 116 Coudor, E. B., Boston, Mass. | |
| PITT, WM. R. COMPOSITE IRON WORKS..... | 552 |
| 136 W 24th, New York. | |
| PITT BALANCE DOOR CO..... | 320 |
| 136th W 24th, New York | |
| PITTSBURG FILTER MFG. CO..... | 434 |
| Farmers Bank bldg, Pittsburg, Pa. | |
| PITTSBURG VALVE, FOUNDRY & CONSTRUCTION CO..... | 1166 |
| Pittsburg, Pa. Branches: 126 Liberty, New York; Boston, Mass.; Cleveland, O.; Birming- ham, Ala. | |
| PORTER, H. K. CO..... | 591 |
| 541 Wood, Pittsburg, Pa. | |
| PRESCOTT, J. B. & SON..... | 1183 |
| Webster, Mass. | |
| PRESSED RADIATOR CO..... | 928 |
| Bailey-Farrell bldg, Pittsburg, Pa. | |
| PRESSED STEEL TANK CO..... | 1108 |
| Milwaukee, Wis. | |
| PRINCESS HOTEL..... | 1 |
| Atlantic City, N. J. | |

Q

| | |
|--|-----|
| QUEEN & CO..... | 35 |
| n. w. cor 8th & Arch, Phila., Pa. | |
| QUIMBY, WM. E. (Inc.)..... | 917 |
| 44 E 23d, New York. Branch Office: Edw. Yeo- mans, Monadnock blk, Chicago, Ill. | |

R

| | |
|--|--------------------------------|
| RANSOME CONCRETE MACHINERY CO..... | 244 |
| Dunellen, N. J. | |
| RAPID ADDRESSING MACHINE CO..... | 2 |
| 290 B'way, New York. | |
| RAPP, JNO. W..... | 317 |
| Gen. Office & Works: College Point, New York City. Sales Office: 4 Madison av, New York | |
| RAYMOND, PYNCHON & CO..... | Back Cover & Last Inside Cover |
| 111 B'way, New York | |
| READING CRANE & HOIST WORKS..... | 295 |
| Reading, Pa. | |
| REEDY, H. J. CO..... | 368 |
| 15 W 2d, Cincinnati, Ohio. | |
| REEDY, J. W. ELEVATOR MFG. CO..... | 370 |
| 91 Illinois, Chicago, Ill. | |
| REEVES BROS. CO..... | 223, 566, 1105 & 1110 |
| Alliance, Ohio. | |
| REICHHELM, E. P. & CO..... | 433 |
| 24 John, New York | |
| RELIANCE BALL BEARING DOOR HANGER CO..... | 317 |
| 1 Madison av, New York | |
| REMPPIIS, WM. F. CO..... | 555 |
| Reading, Pa. Branch Office: 1506 Sansom, Phila., Pa. | |
| REVOLUTE MACHINE CO..... | 69 |
| 523 W 45th, New York | |
| RICHARDS MFG. CO..... | 316 & 435 |
| Aurora, Ill. Branch Offices: 101 Reade, New York, & 179 Lake, Chicago, Ill. | |
| RIESECK, P..... | 436, 504, 555 & 1078 |
| Allgheny & Rebecca, Allegheny, Pa. | |
| RINALD BROS..... | 812 |
| 1142 N Hancock, Phila., Pa. | |
| ROBINS CONVEYING BELT CO..... | 637 |
| 19 Park row, New York | |
| ROCKPORT GRANITE CO..... | 487 |
| Rockport, Mass. Branch Offices: 31 State, Bos- ton, Mass., & 21 Park row, New York. | |
| RODEFER, T. A..... | 482 |
| Bellalre, Ohio. | |

| | Page |
|---|----------------------|
| ROEBLING'S, J. A. & SONS CO (of New York)..... | 1206 |
| 117 Liberty, New York; Trenton, N. J., & 27 Fremont, San Francisco, Cal. | |
| ROEBLING CONSTRUCTION CO..... | 440 |
| Fuller bldg, B'way & 23d, New York. Branch Offices: Land Title bldg, Phila., Pa.; Erie County Bank bldg, Buffalo, N. Y.; Tribune bldg, Chicago, Ill.; 480 8th, San Francisco, Cal., & 101 Tr. mont, Boston, Mass. | |
| ROLLING STEEL SHUTTER WORKS (John McLean)... | 1045 |
| 162 W 27th, New York. | |
| ROSSENDALE-REDDAWAY BELTING & HOSE CO... | 60 |
| Newark, N. J. | |
| RUCKERT, L..... | 378 |
| Merchants Laclede bldg, St. Louis, Mo. | |
| RUGGLES-COLES ENGINEERING CO..... | 331 |
| 39 Cortlandt, New York. | |
| RUMSEY & CO..... | 920 |
| Seneca Falls, N. Y. Principal Branches & Agencies: L. M. Rumsey Mfg. Co., St. Louis, Mo.; A. Baldwin & Co. (Ltd.), New Orleans, La.; Pacific Hardware & Steel Co., San Francisco, Cal.; Bailey-Lebby Co., Charleston, S. C.; Adkins, Young & Allen Co., Chicago, Ill.; Kelly & Jones Co., Pittsburg, Pa., & Crane Co., Birmingham, Ala. | |
| RUSSEL WHEEL & FOUNDRY CO..... | 276 |
| Detroit, Mich. | |
| RUTLAND FIRE CLAY CO..... | 828 |
| Rutland, Vt. Branch Offices: 223 W 12th, Chicago, Ill., & 141 Milk, Boston, Mass. | |
| S | |
| ST. PAUL FOUNDRY CO..... | 1076 |
| Como av & Topping, St. Paul, Minn. | |
| SALEM ELEVATOR WORKS..... | 371 |
| Salem, Mass. | |
| SALO ART METAL CO..... | 791 |
| 19 Collier, Binghamton, N. Y. | |
| SAMSON CORDAGE WORKS..... | 1003 |
| 88 Broad, Boston, Mass. | |
| SAYEN, OSGOOD..... | 804 & 1171 |
| 518 Arcade bldg, Phila., Pa. Warerooms: 131 Market, Phila., Pa. New York & Eastern Representative (E. P. Mallinson), 23 Warren, New York. Works: Newton, N. J. | |
| SAYRE & FISHER CO..... | Front Inside Cover |
| 261 B'way, New York. Works: Sayreville, N. J. | |
| SCAIFE, WM. B. & SONS CO..... | 434, 1076 & 1188 |
| 221 1st av, Pittsburg, Pa. | |
| SCHAEFFER & BUDENBERG MFG. CO..... | 469 & 544 |
| Foxboro, Mass. Branch Offices: 25 Dey, New York; 15 W Lake, Chicago, Ill., & 225 Congress, Boston, Mass. | |
| SCHILLINGER BROS. CO..... | 444 |
| 215 City Park av, Toledo, O. | |
| SCHOLES BROS..... | 319 |
| 1241 Rebecca, Allegheny, Pa. | |
| SCHOLL, JULIAN & CO..... | 946, 947 & 951 |
| 126 Liberty, New York, & Old Colony bldg, Chicago, Ill. | |
| SCHRATWEISER FIREPROOF CONSTRUCTION CO.. | 576 |
| 428 3d av, Brooklyn, N. Y. | |
| SCHULE, F. H. CO..... | 1019 |
| 27 Thames, New York | |
| SCHULER & MUELLER..... | 480 |
| Canal & Madison, Chicago, Ill. | |
| SCRANTON SLATE CO..... | 997 |
| Slatington, Pa. | |
| SEDGWICK MACHINE WORKS..... | 332 |
| Poughkeepsie, N. Y., & 128 Liberty, New York | |
| SEIFERT, FRANK A. PLASTIC RELIEF CO..... | 307 |
| 2646 Lawton av, St. Louis, Mo. | |
| SHAW ELECTRIC CRANE CO..... | See Front Adv. Pages |
| 85 Liberty, New York. Works: Muskegon, Mich. Branch Offices: 721 Arch, Phila., Pa.; 22 S Canal, Chicago, Ill.; Park bldg, Pittsburg, Pa.; 128 Oliver, Boston, Mass.; Frisco bldg, St. Louis, Mo.; Williamson bldg, Cleveland, O.; Majestic bldg, Detroit, Mich.; Merrill bldg, Milwaukee, Wis.; Woodward bldg, Birmingham, Ala.; Kirk bldg, Syracuse, N. Y.; Tokio, Japan | |
| SHAW, WILLIS..... | 417, 591, 635 & 678 |
| 171 La Salle, Chicago, Ill. | |
| SHELTON METALLIC FILLER CO..... | 215 |
| Derby, Conn. | |
| SHUSTER, F. B. CO..... | 673 |
| New Haven, Conn. | |
| SILVER LAKE CO..... | 1003 |
| 78 Chauncy, Boston, Mass. | |
| SIMMONS, JNO. CO..... | 1169 |
| 110 Centre, New York. | |
| SLEEP, ELLIOT & KING CO. (Inc.)..... | 307 |
| 562 W 23d, New York, & 351 Cambridge, Boston, Mass. | |
| SMIDTH, F. L. & CO..... | 627 |
| 39 Cortlandt, New York | |
| SMITH, F. P WIRE & IRON WORKS..... | 549 |
| 100 Lake, Chicago, Ill. | |
| SMITH, J. D. FOUNDRY SUPPLY CO..... | 452 |
| 1581 Columbus rd, N. W., Cleveland, O. | |

| | Page |
|--|---------------------------------------|
| SMOOTH-ON MFG. CO..... | 214 |
| 572 Communipaw av, Jersey City, N. J.; 61 N Jefferson, Chicago, Ill., & 20 Sacramento, San Francisco, Cal. | |
| SNEAD & CO IRON WORKS..... | 553 |
| ft Pine, Jersey City, N. J. | |
| SOLMSON, M. FLY SCREEN CO..... | 1026 |
| Cor. Bayard & Nanticoke, Baltimore, Md. | |
| SOLTMANN, E. G.... | 35, 64, 65, 69, 322, 378, 1099 & 1149 |
| 125 E 42d, New York. | |
| SOUTH AMBOY TERRA COTTA CO..... | 1117 |
| 150 Nassau, New York. Works: South Amboy, N. J. | |
| SPAULDING, J. & SONS CO..... | 433 |
| North Rochester, N. H. | |
| SPEIDEL, J. G..... | 332 |
| Reading, Pa. | |
| SPRAGUE CANNING MACHINERY CO..... | 626 |
| 42 River, Chicago, Ill. | |
| SPRAGUE ELECTRIC CO..... | 248, 473, 533 & 540 |
| 527 W 34th, New York; American bldg, Baltimore, Md.; Weld bldg, Boston, Mass.; Fisher bldg, Chicago, Ill.; House bldg, Pittsburg, Pa.; Atlas bldg, San Francisco, Cal., & Chemical bldg, St. Louis, Mo. | |
| SPRINGFIELD ELEVATOR & PUMP CO..... | 371 |
| Springfield, Mass. | |
| SPRINGFIELD FACING CO..... | 451 |
| Springfield, Mass. | |
| STAFFORD, E. H. MFG. CO..... | 459 |
| 262 Wabash av, Chicago, Ill. | |
| STANDARD GAUGE MFG. CO..... | 470 |
| Syracuse, N. Y.; 141 B'way, New York, & 47 S Clifton, Chicago, Ill. | |
| STANDARD GAUGE STEEL CO..... | 566 |
| Beaver Falls, Pa. | |
| STANDARD PNEUMATIC SPRAY CO..... | 650 & 651 |
| 1 Union sq, New York. | |
| STANDARD SAND & MACHINE CO..... | 452 |
| 5151 St. Clair, Cleveland, O. | |
| STANDARD SCALE & SUPPLY CO..... | 1021 |
| 243 Water, Pittsburg, Pa.; 50 S Canal, Chicago, Ill.; 35 S 4th, Phila., Pa.; 24 S Water, Cleveland, O.; 108 Belt blk, Cincinnati, O., & 136 W B'way, New York | |
| STANDARD VARNISH WORKS..... | 1174 |
| 29 B'way, New York. Branch Offices: 2620 Armour av, Chicago, Ill.; 23 Billiter st, London, Eng.; 41 Ritterstrasse, Berlin, Germany; 41 Rue de la Brenfaissance, Brussels, Belgium, & International Varnish Co. (Ltd.), Toronto, Can. | |
| STANLEY WORKS..... | 528 |
| New Britain, Conn. Branch Offices: 79 Chambers, New York, & 22 Lake, Chicago, Ill. | |
| STAR EXPANSION BOLT CO..... | 81 |
| 147-149 Cedar, New York. | |
| STEARNS, A. T. LUMBER CO..... | 597 |
| Neponset, Boston, Mass. | |
| STEIN, HENRY..... | 892 |
| 48 Cliff, New York. | |
| STEWART & ROMAINE MFG. CO..... | 80 |
| 124 N 6th, Phila., Pa. | |
| STEWART, JAS. & CO..... | |
| Lincoln Trust bldg, St. Louis, Mo.; Westinghouse bldg, Pittsburg, Pa.; North American Trust bldg, New York; Fisher bldg, Chicago, Ill., & Hibernia Bank bldg, New Orleans, La. | |
| STONE WORKING MACHINE CO..... | 667 |
| 43 Wall, New York. | |
| STORM MFG. CO..... | 333 |
| Ft. Centre, Newark, N. J.; 113 Chambers, New York, & 118 Halborn st, E. C., London, Eng. | |
| STRAUS & CO..... | 71 & 1187 |
| 55 Broad, New York. | |
| STRONG, CARLISLE & HAMMOND CO..... | 744 |
| 333-344 Frankfort av, N. W., Cleveland, O. | |
| STRONG COTTON WASTE & MFG. CO..... | 803 |
| 48 Franklin, New York. | |
| STROUD, E. H. & CO..... | 779 |
| 36 La Salle, Chicago, Ill. | |
| STRUCTURAL CONCRETE CO..... | 245 |
| 156 5th av, New York | |
| SULLIVAN MACHINERY CO..... | 240 |
| Railway Exchange, Chicago, Ill. Branch Offices: Claremont, N. H.; 42 B'way, New York; Farmers Bank bldg, Pittsburg, Pa.; Houston bldg, Knoxville, Tenn.; Missouri Trust bldg, St. Louis, Mo.; 4th & Virginia av, Joplin, Mo.; 1748 B'way, Denver, Colo.; Keith bldg, Salt Lake City, Utah; 206 St. Louis, El Paso, Tex.; 319 Howard, San Francisco, Cal., & 48 E B'way, Butte, Mont. | |
| SWAIN LUBRICATOR CO..... | 594 & 802 |
| Cor. Lake & S Water, Chicago, Ill. | |

T

| | |
|--|------|
| TABLET & TICKET CO..... | 12 |
| 87 Franklin, Chicago, Ill. Branch Office: 381 B'way, New York. | |
| TABOR SASH CO..... | 1198 |
| 69 Polk, Newark, N. J., & branch offices in all large cities | |

| | Page |
|---|------------------|
| TAYLOR, JAS L. MFG. CO..... | 226 |
| Bloomfield, N. J. | |
| TAYLOR & DEAN..... | 555 |
| 205 Market, Pittsburg, Pa. | |
| TERRY & TENCH CO (Inc.)..... | 309 |
| Lexington av & 131st, New York. | |
| THOMSON WOOD FINISHING CO..... | 811 |
| 115 N 4th, Phila., Pa. | |
| THORN, J. S. CO..... | 1199 |
| 20th & Allegheny av, Phila., Pa. | |
| THORP FIRE PROOF DOOR CO..... | 317 |
| 401 12th av, Minneapolis, Minn. Branch Offices: | |
| 151 Devonshire, Boston, Mass.; Warner, Dock & | |
| Bayard, Baltimore, Md.; 18th & Austin, St. | |
| Louis, Mo.; 228 Oak, San Francisco, Cal.; 221 | |
| Jackson, Seattle, Wash.; 218 Mercantile pl, Los | |
| Angeles, Cal.; 400 Bronson hldg, Columbus, O., | |
| & Thoms bldg, Cincinnati, O. | |
| TICKET & TABLET CO..... | 12 |
| 87 Franklin, Chicago, Ill. Branch Office: 381 | |
| B'way, New York. | |
| TOLEDO PIPE THREADING MACHINE CO..... | 653 |
| Toledo, O. | |
| TRAVELERS' INDEMNITY CO..... | 546 |
| Hartford, Conn. | |
| TRIMONT MFG. CO..... | 1213 |
| Amory av, Roxbury, Boston, Mass. | |
| TROY WAGON WORKS CO..... | 1182 |
| Troy, O. | |
| TRUSS METAL LATH CO..... | 574 |
| 147 4th av, New York. | |
| TUOHY BROS. CO..... | 295 |
| 95 Liberty, New York | |
| TYLER, W. S. CO..... | 557, 1024 & 1202 |
| Cleveland, O., & 11 B'way, New York | |

U

| | |
|---|-----------------|
| UNDER-FEED STOKER CO. of AMERICA..... | 767 |
| Marquette hldg, Chicago, Ill. | |
| UNION EQUIPMENT & BRONZE CO..... | Outside stencil |
| 520 W 36th, New York. | |
| UNION FOUNDRY WORKS..... | 551 |
| First National Bank hldg, Chicago, Ill. | |
| UNION METAL CORNER CO..... | 829 |
| 206 Summer, Boston, Mass. | |
| U. S. DRYING ENGINEERING CO..... | 331 |
| 66 Beaver, New York | |
| U. S. GUTTA PERCHA PAINT CO..... | 808 |
| 12-30 Dudley, Providence, R. I. | |
| U. S. INDESTRUCTIBLE GASKET CO..... | 465 |
| 16 S William, New York | |
| U. S. METAL & MFG. CO..... | 935 |
| 25 Broad, New York. | |
| U. S. MINERAL WOOL CO..... | 781 |
| 140 Cedar, New York | |
| UNITED WIRE & SUPPLY CO..... | 1156 |
| 109 Summer, Providence, R. I. | |
| UNIVERSAL PORTLAND CEMENT CO..... | 213 |
| The Rookery, Chicago, Ill. | |

V

| | |
|---|------|
| VAN KANNEL REVOLVING DOOR CO..... | 318 |
| 524 E 134th, New York. Branch Offices: 120 N | |
| May, Chicago, Ill.; Paddock hldg, Boston, Mass.; | |
| Perry bldg, Phila., Pa.; 11 Front, San Francisco, | |
| Cal.; & Farmers Bank bldg, Pittsburg, Pa. | |
| VILTER MFG. CO..... | 413 |
| 1046 Clinton, Milwaukee, Wis. | |
| VITRIFIED WHEEL CO..... | 495 |
| Westfield, Mass. | |
| VOIGHTMANN & CO..... | 1200 |
| 42-54 E Erie, Chicago, Ill. Branch Offices: 430 | |
| W 14th & 427 W 13th, New York | |
| VULCAN CO..... | 111 |
| Detroit, Mich. | |

W

| | |
|---|------|
| WALSH, JNO. F. CO..... | 1056 |
| Pittsfield, Mass. | |
| WARNER ELEVATOR MFG. CO..... | 371 |
| Spring Grove av, Alfred & Valley, Cincinnati, | |
| Ohio. Branch Offices: 15 Park row, New York, | |
| & Woodward hldg, Birmingham, Ala. | |
| WARSAW ELEVATOR CO..... | 369 |
| Warsaw, N. Y. Branch Offices: 90 Erie Co. | |
| Bank hldg, Buffalo, N. Y.; 40 Dearborn, Chicago, | |
| Ill.; 111 Mercer, Baltimore, Md.; 242 State, | |
| Rochester, N. Y.; 216 Fulton, New York (Bur- | |
| wak Elevator Co., Agts.); 216 Dock, Phila., Pa. | |
| U. S. Elevator Co., Agts.) | |
| WATSON, BENJ..... | 189 |
| 66 Beaver, New York. | |
| WATSON, H. F. CO..... | 36 |
| Erie, Pa.; 12 S Clinton, Chicago, Ill., & 79 | |
| Milk, Boston, Mass. | |
| WATSON-STILLMAN CO..... | 643 |
| 26 Cortlandt, New York | |
| WEBER, F. & CO..... | 378 |
| 1125 Chestnut, Phila. Branch Offices: 709 Locust, | |
| St. Louis, Mo., & 5 N Charles, Baltimore, Md. | |
| WEGE, CHAS. MARBLE & TILE CO..... | 753 |
| Columbus, Ohio. | |

| | |
|---|------------|
| WELLER MFG. CO..... | 275 |
| 124 E North av, Chicago, Ill. | |
| WELLS BROS. CO..... | 1112 |
| Greenfield, Mass. | |
| WESTINGHOUSE ELECTRIC & MFG. CO..... | 472 |
| Pittsburg, Pa. Branch Offices: New York; At- | |
| lanta, Ga.; Dallas, Tex.; Baltimore, Md.; Bos- | |
| ton, Mass.; Buffalo, N. Y.; Chicago, Ill.; Cin- | |
| cinnati, O.; Cleveland, O.; Detroit, Mich.; Los | |
| Angeles, Minneapolis, Minn.; New Orleans La.; | |
| Phila., Pa.; Pittsburg, Pa.; St. Louis, Mo.; Salt | |
| Lake City, Utah; San Francisco, Cal.; Syracuse, | |
| N. Y.; Seattle, Wash.; Denver, Colo.; Mountain | |
| Electric Co. Canada: Canadian Westinghouse | |
| Co. (Ltd.), Hamilton, Ontario; Mexico: G. & O. | |
| Braniff & Co., City of Mexico. | |
| WHIPPLE, R. P. & CO..... | 529 |
| 275 Main, Springfield, Mass. | |
| WHITING FOUNDRY EQUIPMENT CO..... | 294 |
| Harvey, Ill. Branch Offices: 29 B'way, New | |
| York, & 1547 Marquette bldg, Chicago, Ill. | |
| WHITMAN & BARNES MFG. CO..... | 327 |
| Chicago, Ill. Branch Offices: Akron, O.; New | |
| York; Boston, Mass.; Cincinnati, O.; Kansas | |
| City, Mo.; St. Catharines, Ont., & London, Eng. | |
| WIENER, ERNST CO..... | 934 |
| 68 Broad, New York. | |
| WILBUR, JOB CO..... | 805 |
| Office: Providence, R. I. Factory: Phila., Pa. | |
| WILCOX MFG. CO..... | 496 |
| Aurora, Ill. | |
| WILE POWER GAS CO..... | 463 |
| Cutler bldg, Rochester, N. Y. | |
| WILFONG BROS..... | 461 |
| 52d and Grays av, Phila., Pa. | |
| WILLIAMS, D. T. VALVE CO..... | 595 & 1167 |
| 904 B'way, Cincinnati, O. | |
| WILLIAMS, G. H. CO..... | 112 |
| Rockefeller bldg., Cleveland, O. | |
| WILLIAMS, J. H. & CO..... | 1212 |
| 150 Hamilton av, Brooklyn, N. Y. | |
| WILSON, F. CORTEZ & CO..... | 1106 |
| 239 Lake, Chicago, Ill. | |
| WILSON, GEO. LANDIS..... | 1106 |
| 239 Lake, Chicago, Ill. | |
| WILSON, JAS. G. MFG. CO..... | 1044 |
| 3 W 29th, New York. Mills & Factory, Nor- | |
| folk, Va. | |
| WINKLE TERRA COTTA CO..... | 1116 |
| Century hldg, St. Louis, Mo.; Works: Chelten- | |
| ham, St. Louis. | |
| WINSLOW BROS. CO..... | 552 |
| 2515 W Harrison, Chicago, Ill. Branch Offices: | |
| 160 5th av, New York; Peoples National Bank | |
| hldg, Pittsburg, Pa.; Equitable hldg, Baltimore, | |
| Md.; Hennen hldg, New Orleans, La., & Union | |
| Trust bldg, Los Angeles, Cal. | |
| WISCONSIN IRON & WIRE WORKS..... | 367 |
| 190 E Water, Milwaukee, Wis. | |
| WISSLER, A..... | 379 |
| 501-9 W Washington av, St. Louis, Mo. | |
| WOOD-MOSAIC FLOORING & LUMBER CO..... | 444 |
| 19 Hebard, Rochester, N. Y. Branch Offices: | |
| Wood Mosaic Co., 9 E 32d, New York; R. T. | |
| Adams, 24 Bromfield, Boston, Mass.; J. M. | |
| Adams, 227 N Charles, Baltimore, Md.; Jno. | |
| Douhrawa, 88 Biddle, Milwaukee, Wis.; Krauss, | |
| Butler & Benham Co., Columbus, O.; Heaton & | |
| Wood, 1706 Chestnut, Phila., Pa.; Wood Mosaic | |
| Flooring Co., 708 Empire hldg, Pittsburg, Pa.; | |
| J. M. Adams, 1126 Connecticut av, Washington, | |
| D. C.; Moores Flooring Co., 1511 Union Trust | |
| bldg, Cincinnati, O.; R. A. Dorrill, 637 Broad, | |
| Newark, N. J.; Parquet Flooring Co., 100 B'way, | |
| Detroit, Mich.; Cleveland Hardwood Floor Co., | |
| 39 Taylor Arcade, Cleveland, O.; J. Crawford, | |
| Green & Son, 265 River, Troy, N. Y.; E. G. | |
| McFillen, 1014 Monroe, Toledo, O.; Montreal | |
| Wood-Mosaic Flooring Co. (Ltd.), 730 St. Cath- | |
| erine W., Montreal, Canada; Denver Hardwood | |
| Co., 1340 S 15th, Denver, Colo.; Hardwood In- | |
| terior Co., 873 O'Farrell, San Francisco, Cal., & | |
| John Herr Floor Co., 2110 Olive, St. Louis, Mo. | |
| WORCESTER PRESSED STEEL CO..... | 39 |
| Worcester, Mass. | |
| WORDEN-ALLEN CO..... | 1078 |
| Box No. 528, Milwaukee, Wis., & 184 La Salle, | |
| Chicago, Ill. | |
| WRIGHT WIRE CO..... | 550 |
| Worcester, Mass.; Palmer, Mass.; 219 E Kinzie, | |
| Chicago, Ill., & 97 Fremont, San Francisco, Cal. | |
| WYCKOFF & LLOYD CO..... | 526 |
| Springfield, Mass. | |

Y

| | |
|---|-----|
| YAGLE FOUNDRY & MACHINE CO. (Ltd.)..... | 947 |
| 400 32d, Pittsburg, Pa. | |

Z

| | |
|-------------------------------------|-----|
| ZIBELL DAMP RESISTING PAINT CO..... | 810 |
| 273 Water, New York | |
| ZIMMERMAN, JACOB A..... | 115 |
| 1358 B'way, New York. | |

SOW WITH US AND REAP BOUNTIFULLY

We are manufacturers, and you can't miss getting what you want, at the price you want to pay, and the use you want it for, if you address

L. F. GRAMMES & SONS, Allentown, Pa.

THIS IS OUR BUSINESS

MACHINES TO BUILD BOXES—all kinds and sizes. This includes AUTOMATIC NAILING MACHINES that drive as many nails as required. SAW MACHINERY, TRIMMING MACHINES and PRINTING PRESSES.

MACHINES TO NAIL BRUSHES—the famous Perkins and Grammes—machines that nail wooden backs, handles and heads in brass and metal bound brushes.

SMALL METAL GOODS—stamped or cast, all ordinary and special that can't be had anywhere else—hardware for office furniture, boxes and novelties.

SUPPLIES for Cigar Box and Paper Box Manufacturers, Printers and Lithographers.

We issue fine catalogs of each line. After we know what you are interested in, we can send you a catalog which you will value highly.



L. F. GRAMMES & SONS, - ALLENTOWN, PA.

3 BIG THINKS

THINK ONE

ONE irresistible, indisputable reason why the PACIFIC BUILDER AND ENGINEER is such a strong "Puller" for business is because it is the Only representative of the largest Industry in the portion of the United States that is making the most rapid development.

180 MILLION DOLLARS was expended during 1906 in construction, improvement and development work in the territory covered by the PACIFIC BUILDER AND ENGINEER.

That means 250 MILLIONS in 1907.

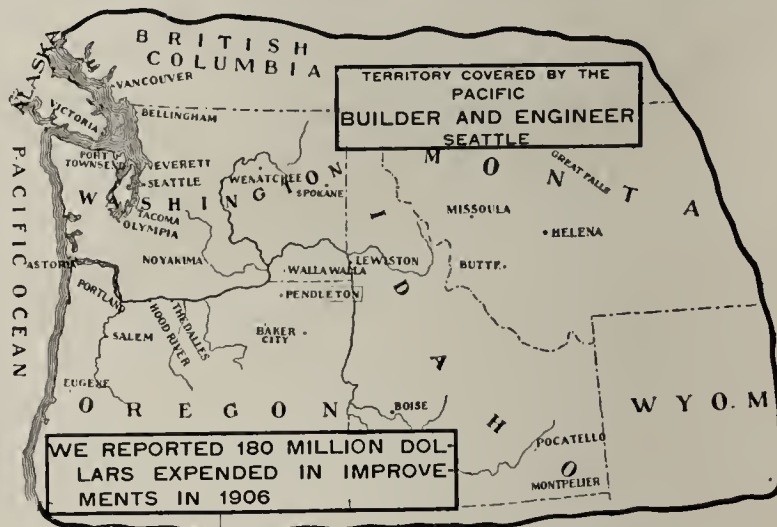
Or practically a GAIN of 50 %.

THINK TWO

The SECOND Reason Why the PACIFIC BUILDER AND ENGINEER will pay you is because it gives its Readers the very essence of Business—Getting Information—Advance Information of all construction, improvement and development work, long before contracts are ready to let.

THINK THREE

The THIRD Reason Why the PACIFIC BUILDER AND ENGINEER gives such good value to its Advertisers and Subscribers is because it covers its immense field thoroughly, employing a large corps of editors and special correspondents, and a special news service, unequalled anywhere.



PACIFIC BUILDER AND ENGINEER

Published Every Saturday at \$5.00 Per Annum.

316-317 PACIFIC BLOCK, SEATTLE.

JEDD P. FULLER, Publisher.

A. V. WILLOUGHBY, Manager of Advertising.

Eastern Representative: W. A. DOUGLASS,
1527 MONADNOCK BLOCK - CHICAGO

Write for sample copy. SENT FREE on request.

HARRY RAYMOND

GEO. M. PYNCHON

C. M. EATON

C. L. GRAFF

WM. E. REIS, Special



RAYMOND, PYNCHON & CO.

Members New York Stock Exchange

BANKERS

Main Office, - - 111 Broadway

TELEPHONE 970 RECTOR

BRANCH OFFICES:

WALDORF-ASTORIA

THE PLAZA HOTEL



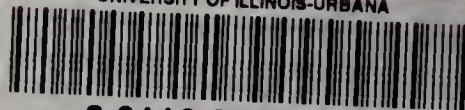
LONDON OFFICES:

1 DRAPERS GARDENS

7 WATERLOO PLACE

C. L. GRAFF, Resident Partner

UNIVERSITY OF ILLINOIS-URBANA



3 0112 057145515

Raymond, Pyncheon & Co.

OF NEW YORK,

MEMBERS NEW YORK STOCK EXCHANGE,

BANKERS.

MAIN OFFICE:

No. 111 BROADWAY.

LONDON OFFICES:

1 DRAPERS GARDENS.

7 WATERLOO PLACE.

BRANCH OFFICES:

THE PLAZA HOTEL.

WALDORF-ASTORIA.